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May 22, 2019

Mr. Harry Allen
Federal On-Scene Coordinator
U. S. Environmental Protection Agency
Region 9, Emergency Response Section
2445 North Palm Drive Signal Hill, CA 90755

Subject: **Guam Agent Orange Final Site Assessment Report**
Yigo, Guam
TDD No.: 0002/1302-T2-R9-17-12-0001
Document Control No.: 0178-08-ACDE

Dear Mr. Allen:

Under the Technical Direction Document (TDD) No. 0002/1302-T2-R9-17-12-0001, the United States (U.S.) Environmental Protection Agency (EPA) Region 9 Federal On-Scene Coordinator (FOSC), Harry Allen, tasked the Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) to support a soil screening assessment on Andersen Air Force Base (AAFB) in Guam (**Attachment A, Figure 1**). The screening assessment was conducted at the request of the Government of Guam and in conjunction with Navy Installations Command, Joint Region Marianas. The request was prompted by public concerns related to historical herbicide use on Guam, potentially including Herbicide Orange (HO) or its constituents. This report also includes subsequent soil sampling off of AAFB (referred to throughout this report as "off-base") conducted at the request of Guam Environmental Protection Agency (GEPA).

The role of EPA in the soil screening assessment was to analyze split samples collected by AECOM on behalf of Joint Region Marianas to evaluate the alleged presence of contaminants of potential concern (COPCs). The suspected COPCs include the HO constituents 2, 4 - dichlorophenoxyacetic acid (2,4-D) and 2, 4, 5 - trichlorophenoxy acetic acid (2,4,5-T) used on Guam. Soil (Incremental Sampling Methodology [ISM]) samples were collected from surface soils in three predetermined areas on AAFB by AECOM in April 2018 for analysis by EMAX Laboratories, Inc. (EMAX). Split samples were provided to TestAmerica Laboratories, Inc. (TestAmerica) through the START contract.

Although the AECOM laboratory did not show any detections during their split sample analysis, split samples provided to START and analyzed by TestAmerica from Area 1 had positive detections of trace amounts of 2,4-D and 2,4,5-T. In response to these findings, additional ISM samples were collected by AECOM in December 2018 from only Area 1. AECOM collected three soil samples on December 2018 and split samples were again provided to TestAmerica. Neither lab reported detections in the second round of sampling. Split sample results from TestAmerica are provided in this Site Assessment Report.

As a result of the AAFB soil screening assessment initial Area 1 findings, GEPA requested that EPA collect surface soils at five additional locations along a historic fuel pipeline right-of-way located off AAFB.

Off-base soil sampling was conducted by START and took place over the course of 2 days, beginning November 14, 2018, and concluding November 15, 2018. The sampling event included five assessment sites located along a portion of fuel pipeline where reported herbicide spraying reportedly occurred. Additional COPCs were considered in this event including 2(2,4,5-trichlorophenoxy) propionic acid (2,4,5-TP, also known as Silvex or Fenoprop) and other herbicides reported in the test method. From the off-base soil sampling effort, soil sample TY-02 had detections for both 2,4,5-T at 37 micrograms per kilogram (µg/kg) and 2,4,5-TP at 23 µg/kg using EPA Method 8321A.

This letter report discusses the background, site description, and split sample analysis and off-base soil sampling activities, and presents a summary of START mobilization activities. **Attachment A** provides the figures for this letter report. **Attachment B** provides a photographic log of Site conditions and emergency response activities. **Attachment C** contains the soil sampling results and data validation reports.

BACKGROUND

According to a Work Plan document drafted by AECOM titled *Limited Investigation into Alleged Herbicide Orange Use at Three Sites* (2018), the Department of Veterans Affairs requested that the U.S. Department of Defense (DoD) provide locations and dates, excluding Vietnam, where the DoD utilized herbicide agents, including HO, along with exposure data indicating where DoD personnel were most likely exposed to the COPCs. The Government of Guam requested that EPA participate in this limited investigation by assisting in the Work Plan development and analyzing split samples.

On April 23, 2018, as a component of the limited investigation, AECOM conducted a soil screening assessment into alleged chlorinated herbicide use. AECOM collected soil samples in three areas of concern (AOCs) on AAFB using ISM in accordance with the Interstate Technology and Regulatory Council guidance document ISM-1, "Incremental Sampling Methodology," February 2012. The soil samples collected by AECOM at AAFB were sent to EMAX, in Torrance, California (CA), to be split into two separate samples and then analyzed for the COPCs. EMAX performed analysis for chlorinated herbicides using EPA Method 8151A on one set of split samples. The START contracted laboratory, TestAmerica, received the second set of split soil samples from EMAX for duplicate analysis. The validated analytical report received from TestAmerica for one soil sample collected along the former fuel pipeline from Area 1 revealed trace amounts of 2,4-D, with a concentration of 380 µg/kg and 2,4,5-T, with a concentration of 49 µg/kg. Trace amounts of 2,4-D, with a concentration of 10 µg/kg, were also detected in one soil sample collected from Area 3 and analyzed by TestAmerica. EMAX did not detect COPCs in any of the split samples analyzed for chlorinated herbicides from the AAFB sampling event.

Because only one of the two laboratories detected the presence of the COPCs in the split soil samples, an expanded resampling event of Area 1 was conducted to confirm the presence or absence of the COPCs in surface soils. AAFB sample locations are presented in **Attachment A, Figure 1**. In December 2018, Navy contractor AECOM collected soil screening samples in only Area 1 and split the samples for analysis for the COPCs. These split sample collection methods and results are described below.

In addition to Navy resampling efforts of Area 1, EPA expanded soil sampling efforts to include five separate off-base sampling locations along a former fuel pipeline located near AAFB where reported spraying of chlorinated herbicides may have occurred. START mobilization activities and soil sample collection methods and results are described below.

SPLIT SAMPLE COLLECTION

On April 23, 2018, AECOM collected surface soil samples from AOCs on AAFB using ISM. The soil screening samples collected by AECOM at AAFB were sent to EMAX in Torrance, CA, to be split into two separate samples and then analyzed for the COPCs. EMAX performed analysis for chlorinated herbicides using EPA Method 8151A on one set of split samples and TestAmerica received the second set of split soil samples from EMAX for duplicate analysis.

Positive detections were confirmed in only Area 1 from April 2018; therefore this area was resampled on December 4, 2018 by Navy subcontractor AECOM. EPA was not present during the Navy resampling event. Four samples were collected and sent to EMAX to be split between the Navy-contracted laboratory and TestAmerica. TestAmerica was contracted by START to perform analysis on the split samples received from EMAX. ISM split sample preparation was performed by EMAX, and split samples were received by TestAmerica on December 12, 2018. Split samples were analyzed by TestAmerica for herbicides in accordance with EPA Method 8151A, as before. A final analytical report was not received from the Navy regarding the results of split samples received by the Navy-contracted laboratory; therefore, those data are not reported in this document.

MOBILIZATION ACTIVITIES

On November 13, 2018, FOSC Harry Allen and START mobilized to the Site in Guam and met with GEPA to discuss sampling locations and conduct a site walk for five sampling locations along an off-base pipeline reportedly involved in the spraying of chlorinated herbicides. Some of the pre-determined locations were modified upon arrival in Guam. A site walk followed by the sampling of five locations began on November 14, 2018 and was completed over the course of two days.

OFF-BASE SOIL SAMPLE COLLECTION

To evaluate public concerns surrounding the historical use of HO and other chlorinated herbicides, composite surface soil samples were collected at a depth of 0 to 3 inches below ground surface from five public access locations where herbicide use was reported. Composite soil samples were collected from an approximately 200-square-foot area along different sections of the pipeline at

valves and other common access points where spraying of chlorinated herbicides reportedly occurred. Composite soil samples were collected using dedicated sampling equipment and submitted to a laboratory for chlorinated herbicide analysis by EPA Method 8321A and semivolatile organic compounds (SVOCs) by EPA Method 8270D. Additionally, 20 percent (%) of the soil samples were submitted to a laboratory for herbicide analysis by EPA Method 8151A. **Attachment B** provides photographic documentation of conditions at AAFB and selected sampling activities.

On November 14, 2018, FOSC Harry Allen, START, GEPA, and Guam Senator Therese Terlaje arrived at the first composite soil sampling site located at the Potts Junction (PJ) in Guam (**Attachment A, Figure 3**). The PJ site is located at the northwest end of the island approximately 9 kilometers (km) west of AAFB. A total of five 5-point composite surface soil samples (PJ-01, PJ-02, PJ-03, PJ-04, PJ-05) and a duplicate sample (PJ-02-20), were collected along the powerline right-of-way at five distinct areas identified as potential areas of chlorinated herbicide use (**Attachment A, Figure 3**).

On November 14, 2018, FOSC Harry Allen, START, and GEPA arrived at the second sampling location. The site was located at Tiyan Junction (TY), which is positioned centrally on the island of Guam near the southern edge of Antonio B. Won Pat International Airport (**Attachment A, Figure 4**). The original position of this sampling location had to be modified because of site access restrictions by the Navy. Two 5-point composite surface soil samples were collected at the TY location. The first 5-point composite sample (TY-01) was collected along the pipeline on East Cesario Street in a mixed residential and commercial area (**Attachment A, Figure 5**). The second 5-point composite sample (TY-02) and a duplicate sample (TY-02-20) were collected along a portion of pipeline where a valve junction was visible on West Cesario Street, just west of Route 33 (**Attachment A, Figure 6**). The aboveground pipeline parallels the road and is located in a publicly accessible right-of-way.

On November 14, 2018, FOSC Harry Allen and START arrived at the third sampling location. The sampling site was centrally located on the island, south of the TY sampling location in the Victoria's Ranch area of Mongmong Toto-Maite (MTM) (**Attachment A, Figure 7**). The MTM sampling location was added based on reports indicating the location was historically involved in HO spraying. One 5-point composite surface soil sample (MTM-01) was collected along the pipeline at the MTM site.

On November 15, 2018, FOSC Harry Allen and START arrived at the Navy tie-in Pipeline (NTIP) location (**Attachment A, Figure 8**) and met with representatives from the GEPA. The site is centrally located along the western coastline of the island in the village of Piti. The pipeline system runs northwest until arriving at a large valve system on Route 11A. The pipeline then runs northeast from the valve system on the south side of Route 11A. Sub-surface pipe was installed to cross Route 11A. The pipeline resurfaces on the northwest corner of Route 11A and an unnamed road and continues north towards a Guam Power Authority facility. There is a second set of valves where the pipeline resurfaces and there is an old concrete vault in a dilapidated condition. One 5-point composite surface soil sample (NTIP-01) was collected around the pipeline valve area. A

discrete surface soil grab sample (NTIP-02) and a discrete concrete grab sample (NTIP-CS-01) were also collected per the direction of FOSC Allen.

On November 15, 2018, FOSC Allen arrived onsite with START and GEPA at the Olivares (OLV) sampling location (**Attachment A, Figure 9**). The site is located on a private residence south of the NTIP location, along the western coastline in the village of Piti. The residents of the property complained of vegetative dead spots or "dead zones," claiming vegetation will not grow in certain areas where the pipeline runs through the property. The property is reported to have previously been a storage area for 55-gallon drums that have since been removed. Remnant metal debris was still present during the site walk. The residential structure is located at the southwest corner of the property. Potential drum metal debris were observed approximately 30 feet (ft) east of the residential property in a densely vegetated area near where the sub-surface pipeline is known to be positioned through the property. A 5-point composite surface soil sample (OLV-01) was collected at this location with a grab sample of the possible drum metal debris (OLV-DM-01). Approximately 100 feet northeast of the area where possible drum metal debris was observed, there is an open field with a mound of soil and no vegetation at the sub-surface pipeline location. The resident indicated that the cleared area is where vegetation is reportedly unable to grow. A second 5-point composite sample (OLV-02) was collected from the cleared area. The pipeline runs northeast through the property and then offsets to the north across Peaceful Valley Road. A third 5-point composite surface soil sample (OLV-03) was collected along a culvert where the pipeline was visible on the north side of Peaceful Valley Road. Photographic documentation of field activities is presented in **Attachment B**.

RESULTS

SPLIT SAMPLES

In April 2018, EMAX provided the initial spilt samples to TestAmerica for Areas 1 through 3. These were analyzed for herbicides using EPA SW-846 Method 8151A by TestAmerica. The validated analytical report received from TestAmerica for one soil sample collected from Area 1 revealed trace amounts of 2,4-D with a concentration of 380 µg/kg and 2,4,5-T with a concentration of 49 µg/kg. Trace amounts of 2,4-D with a concentration of 10 µg/kg were also detected in one soil sample collected from Area 3. Soil split samples from both Area 1 and Area 3 also had detections of 2,4-D; however, both 2,4-D results were considered to have high uncertainty based on quality control measures. EMAX did not detect COPCs in any of the split samples analyzed for chlorinated herbicides from the AAFB sampling event in April 2018. Laboratory analytical results are presented in **Attachment C**.

Soil screening split samples received by TestAmerica from EMAX on December 12, 2018, were analyzed for herbicides using EPA SW-846 Method 8151A by TestAmerica. A deviation from the Standard Operating Procedure (SOP) occurred with the following details: the pre-weighed ISM aliquots for samples GQ010, GQ011, GQ011MS, GQ011MSD, GQ012, and L101ISMB provided the analyst with only 30 grams in contrast to the SOP requirement of 50 grams. The laboratory notified START of the issue on December 14, 2018, and START notified the FOSC of the issue on December 15, 2018. The FOSC and START approved proceeding with the extraction process with the 30-gram aliquots that were provided. Reporting limits were adjusted accordingly due to

the lower starting mass. The following samples were diluted 5x because of the gold color of the sample extract caused by the soil matrix to preserve the integrity of the analytical instrumentation and the reporting limits were adjusted accordingly: GQ010, GQ011, GQ011MS, and GQ011 matrix spike duplicate (MSD). Because of these dilutions, the surrogate and matrix spike (MS) concentrations in the samples were reduced to a level where the recovery calculation did not provide useful information.

To better evaluate the extraction performance and lower reporting limits for all samples analyzed at the 5x dilution, Navy requested that START have TestAmerica reanalyze the sample extracts (and MS/MSD) for the split samples at the 1x dilution to standardize laboratory quality assurance/quality control (QA/QC) protocol so that the sample results from both laboratories would be comparable. TestAmerica was able to re-analyze the sample extracts for GQ010 and GQ011 at 1x dilution. No detections of COPCs were observed in either analytical report received from TestAmerica. Data for split samples analyzed by TestAmerica are presented in **Attachment C**.

OFF-BASE SOIL SAMPLES

A total of 13 soil samples and two duplicate samples were collected by START personnel and submitted to TestAmerica for SVOC analysis in accordance with EPA Method 8270D and for herbicide analysis in accordance with EPA Method 8321A. Chlorinated herbicides, including HO, were reportedly applied in the 1960s and 1970s and have experienced over 50 years of environmental degradation. Limitations in resolution for the previously utilized EPA Method 8151A may have potentially restricted the ability to detect the COPCs at the lower concentrations necessary to quantitatively assess long-term risks. Therefore, a modified analytical method, EPA Method 8321A with increased resolution, was utilized to attempt to detect herbicides at lower concentrations than was possible with the previously utilized method. To evaluate potential measurement error, 20% of samples were split and analyzed using the original EPA Method 8151A.

Using EPA Method 8321A, it was determined that sample TY-02 had detections for both 2,4,5-T at 37 µg/kg and 2,4,5-TP at 23 µg/kg. Concentrations for 2,4,5-T and 2,4,5-TP did not exceed EPA Regional Screening Levels (RSLs) for residential soil or Tropical Pacific Environmental Screening Levels (TPESLs) for unrestricted land use where groundwater is not a current or potential drinking water resource and soil depth is less than 3 meters below ground surface. The EPA RSL residential values are 630,000 µg/kg for 2,4,5-T and 510,000 µg/kg for 2,4,5-TP. The TPESL values are 12,000 µg/kg for 2,4,5-T and 870 µg/kg for 2,4,5-TP. The detections of 2,4,5-T and 2,4,5-TP were greater than the method detection limit but less than the reporting limit; therefore, the concentrations are an approximate value. No detections were observed for the 20% split samples analyzed using EPA Method 8151A for herbicides.

SVOC data revealed concentrations for sample TY-01 exceeded EPA residential RSLs for benzo[a]pyrene of 110 µg/kg with a concentration of 120 µg/kg. SVOC data also revealed sample NTIP-01 exceeded EPA RSL for Bis(2-ethylhexyl) phthalate of 39,000 µg/kg with a concentration of 43,000 µg/kg. Bis(2-ethylhexyl) phthalate is a widely used plasticizer in the manufacturing of polyvinyl chloride (PVC). Benzo[a]pyrene is a polyaromatic hydrocarbon associated with burned

ash and/or asphalt. Both analytes that are in exceedance are SVOCs unrelated to the scope of work for this Site Assessment.

CONCRETE AND DRUM METAL SAMPLE

Concrete sample NTIP-CS-01 and metal sample OLV-DM-01 were analyzed for herbicides in accordance with EPA Method 8321A and for SVOCs in accordance with EPA Method 8270D. There were no detections for herbicides or SVOCs in either the concrete sample collected in the concrete vault area at the NTIP sampling location or in the metal sample collected at the alleged OLV drum storage sampling location.

SUMMARY

The goal of this study was to sample soils for evidence of chlorinated herbicides used on Guam. In addition to performing laboratory analysis of split samples collected from the limited investigation soil screening assessment on AAFB by Navy contractors, EPA conducted an off-base soil sampling effort from November 13, 2018 to November 15, 2018, which included five sampling locations along the former fuel pipeline located off-base, where reported spraying of chlorinated herbicides, including HO, may have occurred. Detections for both 2,4,5-T and 2,4,5-TP were observed at the TY site location. The herbicide 2,4,5-T was a known component of HO and both herbicides have been banned for use in the United States since the early 1980s. The detection of the analytes 2,4,5-T and 2,4,5-TP during the November 2018 sampling event, in combination with the previous detection of 2,4,5-T and (possibly) 2,4-D from split samples collected from Area 1 located on AAFB in April 2018, indicate the presence of these residual chlorinated herbicides in the soils tested. Please feel free to contact me at (925) 948-2608 if you have any questions or concerns regarding this report.

Respectfully,

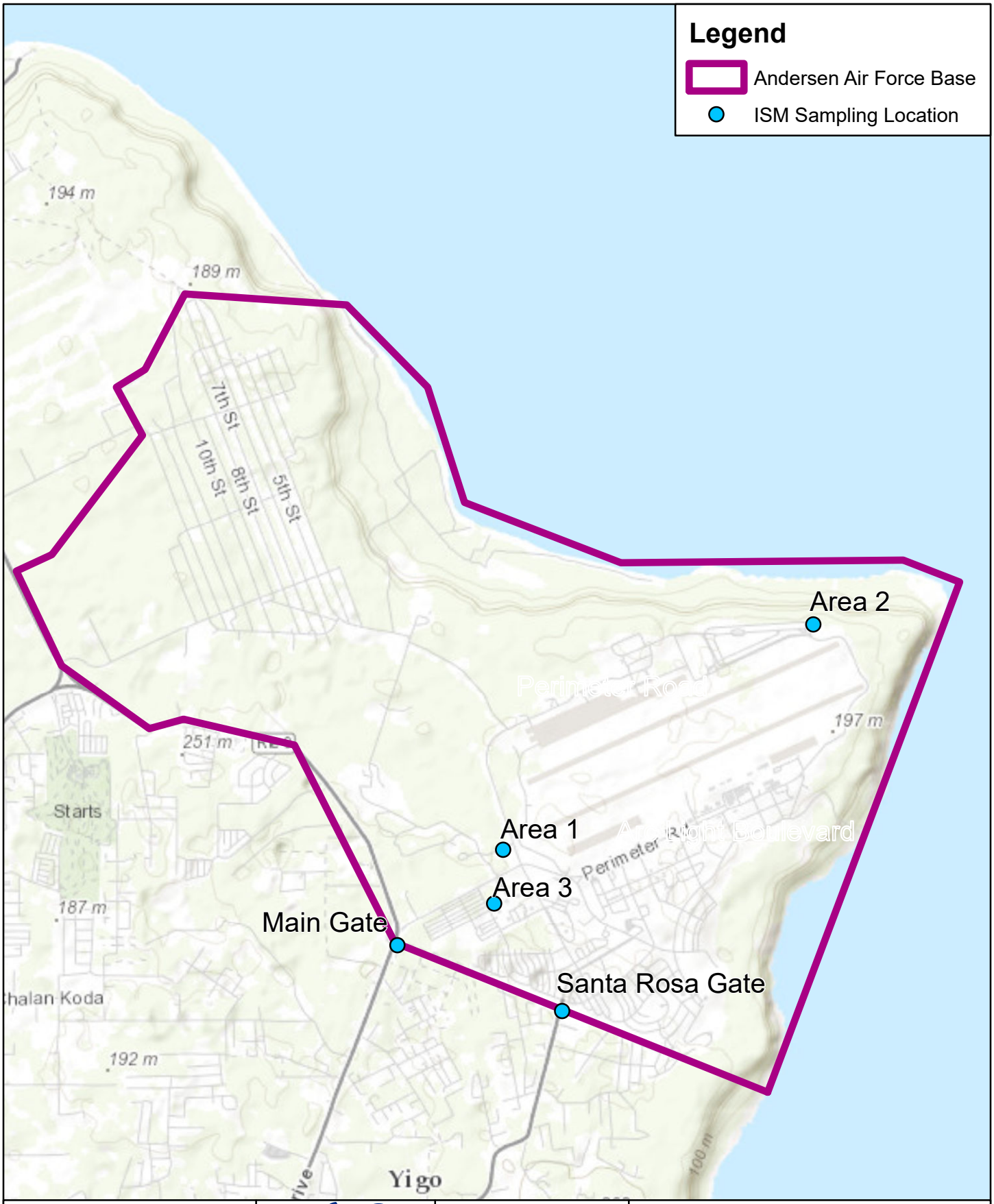
WESTON SOLUTIONS, Inc.

Amanda Wagner
START Project Scientist

Attachments:
A – Figures
B – Photographic Documentation
C –Sampling Results

cc: WESTON START DCN File

ATTACHMENT A: FIGURES



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FIGURE 1
ANDERSEN AFB SAMPLING LOCATIONS
Guam Agent Orange Site Assessment
Yigo, Guam

Contract: EP-S5-13-02; TDD: 0002/1302-T2-R9-17-12-0001

Document Control Number: 0178-08-ACDE



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FIGURE 2
SITE LOCATION MAP
Guam Agent Orange Site Assessment
Yigo, Guam

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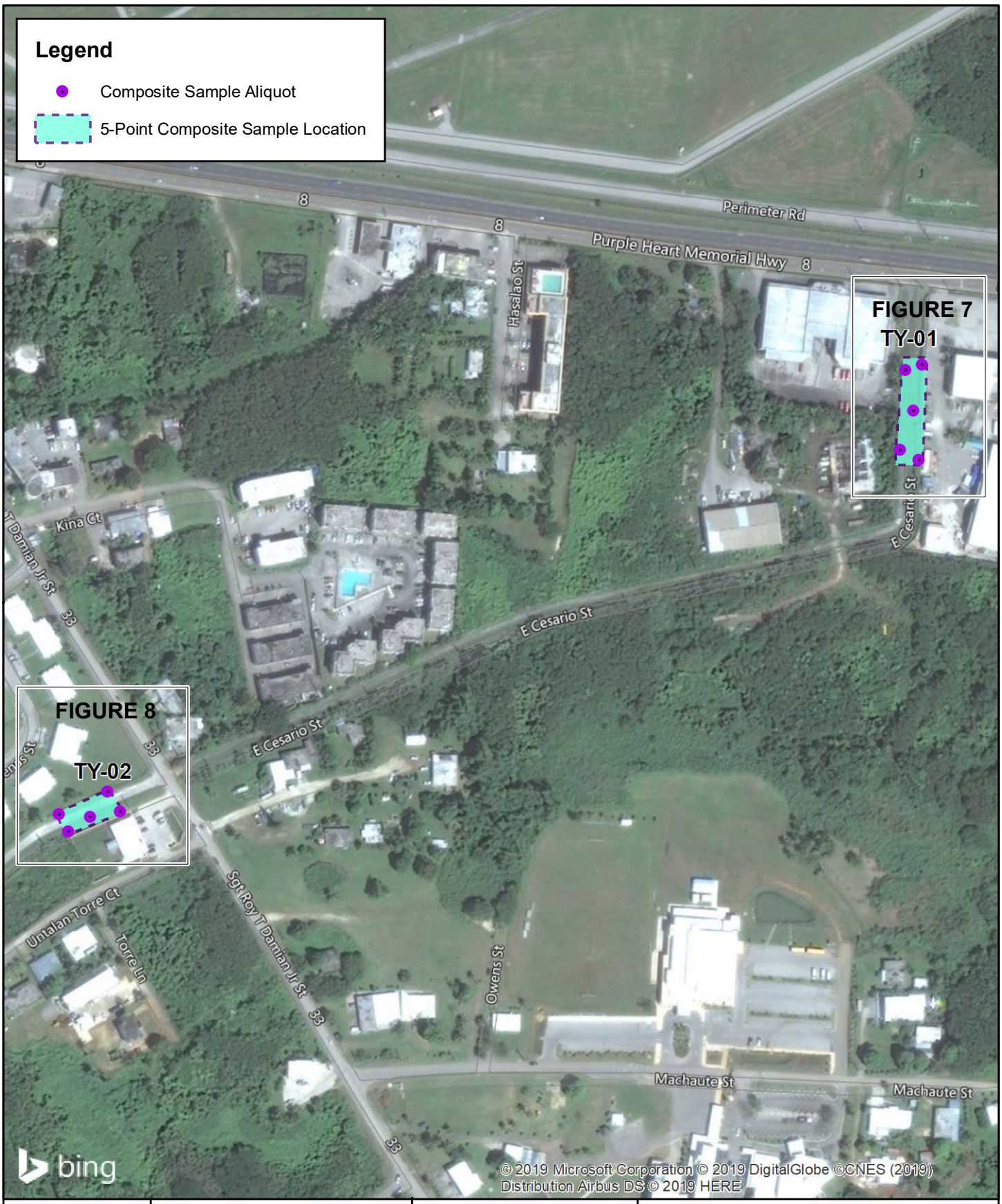
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FIGURE 3
POTTS JUNCTION SAMPLING LOCATIONS
Guam Agent Orange Site Assessment
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FIGURE 4
TIYAN JUNCTION SAMPLING LOCATIONS
Guam Agent Orange Site Assessment
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FIGURE 5
TY-01 SAMPLING LOCATION
Guam Agent Orange Site Assessment
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FIGURE 6
TY-02 SAMPLING LOCATION
Guam Agent Orange Site Assessment
Yigo, Guam

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FIGURE 7
MONGMONG TOTO MAITE SAMPLING LOCATIONS
Guam Agent Orange Site Assessment
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FIGURE 8
NAVY TIE-IN PIPELINE SAMPLING LOCATIONS
Guam Agent Orange Site Assessment
Yigo, Guam

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FIGURE 9
OLIVARES SAMPLING LOCATIONS
Guam Agent Orange Site Assessment
Yigo, Guam

Contract: EP-S5-13-02; **TDD:** 0002/1302-T2-R9-17-12-0001

Document Control Number: 0178-08-ACDE

ATTACHMENT B: PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project No.
Guam AO Site Assessment	Yigo, Guam	TDD: 0002/1302-T2-R9-17-12-0001 DCN: 0178-08-ACDE

Photo No. 1	Date: 11/14/2019

Description:

Direction: Northeast

Potts Junction Site along powerline right-of-way adjacent to Route 3 in Guam.



Photo No. 2	Date: 11/14/2019

Description:

Direction: Southwest

START conducting a 5-point composite soil sample at Potts Junction Site.



PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project No.
Guam AO Site Assessment	Yigo, Guam	TDD: 0002/1302-T2-R9-17-12-0001 DCN: 0178-08-ACDE

Photo No. 3	Date: 11/14/2019

Description:

Direction: Southwest

EPA OSC and GEPA observing and photographing a sampling location at Potts Junction Site.



Photo No. 4	Date: 11/14/2019

Description:

Direction: South

5-point composite sampling location at Potts Junction Site.



PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project No.
Guam AO Site Assessment	Yigo, Guam	TDD: 0002/1302-T2-R9-17-12-0001 DCN: 0178-08-ACDE

Photo No. 5	Date: 11/14/2019

Description:

Direction: North

Entrance to the Tiyan Junction TY-01 5-point composite sample location.



Photo No. 6	Date: 11/14/2019

Description:

Direction: South

Tiyan Junction TY-01 5-point composite sample location with the pipeline visible along the eastern edge of the right-of-way.



PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project No.
Guam AO Site Assessment	Yigo, Guam	TDD: 0002/1302-T2-R9-17-12-0001 DCN: 0178-08-ACDE

Photo No. 7	Date: 11/14/2019

Description:

Direction: East

Tiyan Junction TY-02 5-point composite sample location with the pipeline visible along East Cesario Street.



Photo No. 8	Date: 11/14/2019

Description:

Direction: South

Valve along East Cesario Street where Tiyan Junction TY-02 5-point composite sample location was collected.



PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project No.
Guam AO Site Assessment	Yigo, Guam	TDD: 0002/1302-T2-R9-17-12-0001 DCN: 0178-08-ACDE

Photo No. 9	Date: 11/15/2019

Description:

Direction: Northwest

Large pipeline valve system at the Navy Tie-In Pipeline Site where pipeline crosses under Route 11A where NTIP-01 5-point composite sample was collected.



Photo No. 10	Date: 11/15/2019

Description:

Direction: N/A

Close-up view of a composite sampling location at the Navy Tie-In Pipeline Site where NTIP-01 5-point composite sample was collected.



PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project No.
Guam AO Site Assessment	Yigo, Guam	TDD: 0002/1302-T2-R9-17-12-0001 DCN: 0178-08-ACDE

Photo No. 9	Date: 11/15/2019

Description:

Direction: Southwest

Pipeline at the north side of Route 11A at the Navy Tie-In Pipeline Site where NTIP-01 5-point composite sample was collected.



Photo No. 10	Date: 11/15/2019

Description:

Direction: Northeast

Pipeline at the north side of Route 11A at the Navy Tie-In Pipeline Site where NTIP-01 5-point composite was collected along with the discrete soil sample NTIP-02 and the concrete sample NTIP-CS-01.



PHOTOGRAPHIC LOG

Project Name:	Site Location:	Project No.
Guam AO Site Assessment	Yigo, Guam	TDD: 0002/1302-T2-R9-17-12-0001 DCN: 0178-08-ACDE

Photo No. 9	Date: 11/15/2019

Description:

Direction: N/A

Close-up view of concrete vault in ruin where the discrete soil sample NTIP-02 and the concrete sample NTIP-CS-01 were collected.



Photo No. 10	Date: 11/15/2019

Description:

Direction: East

Dead zone area and soil mound at Olivares site where 5-point composite sample OLV-02 was collected.



ATTACHMENT C: SAMPLING RESULTS

Table 1
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			**MTM-01**	**NTIP-01**	**NTIP-02**	**OLV-01**	**OLV-02**
Sample Date			**11/14/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8321A - Solid (µg/kg)**				
2,4,5-T	630000	12000	ND (<6)	ND (<5.5)	ND (<5.8)	ND (<8.2)	ND (<5.7)
2,4-D	700000	340	ND (<6)	ND (<5.5)	ND (<5.8)	ND (<8.2)	ND (<5.7)
2,4-DB	1900000	--	ND (<7.2)	ND (<6.6) J	ND (<7)	ND (<9.8)	ND (<6.8)
Dicamba	1900000	--	ND (<6)	ND (<5.5) J	ND (<5.8)	ND (<8.2)	ND (<5.7)
Dichlorprop	--	--	ND (<6)	ND (<5.5)	ND (<5.8)	ND (<8.2)	ND (<5.7)
MCPA	32000	--	ND (<6)	ND (<5.5) J	ND (<5.8)	ND (<8.2)	ND (<5.7)
MCPP	63000	--	ND (<6)	ND (<5.5) J	ND (<5.8)	ND (<8.2)	ND (<5.7)
Silvex (2,4,5-TP)	510000	870	ND (<6)	ND (<5.5)	ND (<5.8)	ND (<8.2)	ND (<5.7)
Dalapon	--	--			ND (<230)		

Notes:
by EPA Method 8321A

Bold, Underlined and Highlighted = Analytical result exceeds screening level

-- = Not Applicable

EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)

J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit

ND = not detected above the reporting limit (<RL)

TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 1
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			OLV-03	PJ-01	PJ-02	PJ-02-20	PJ-03
Sample Date			**11/15/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8321A - Solid (µg/kg)**				
2,4,5-T	630000	12000	ND (<8.1)	ND (<6.5)	ND (<6.1)	ND (<6.5)	ND (<6.1) J
2,4-D	700000	340	ND (<8.1)	ND (<6.5)	ND (<6.1)	ND (<6.5)	ND (<6.1)
2,4-DB	1900000	--	ND (<9.7)	ND (<7.7)	ND (<7.3)	ND (<7.8)	ND (<7.3)
Dicamba	1900000	--	ND (<8.1)	ND (<6.5)	ND (<6.1)	ND (<6.5)	ND (<6.1)
Dichlorprop	--	--	ND (<8.1)	ND (<6.5)	ND (<6.1)	ND (<6.5)	ND (<6.1)
MCPA	32000	--	ND (<8.1)	ND (<6.5)	ND (<6.1)	ND (<6.5)	ND (<6.1)
MCPP	63000	--	ND (<8.1)	ND (<6.5)	ND (<6.1)	ND (<6.5)	ND (<6.1)
Silvex (2,4,5-TP)	510000	870	ND (<8.1)	ND (<6.5)	ND (<6.1)	ND (<6.5)	ND (<6.1) J
Dalapon	--	--					ND (<48)

Notes:
by EPA Method 8321A
Bold, Underlined and Highlighted = Analytical result exceeds screening level
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 1
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			PJ-04	PJ-05	TY-01	TY-02	TY-02-20
Sample Date			**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8321A - Solid (µg/kg)**				
2,4,5-T	630000	12000	ND (<5.3)	ND (<5.7)	ND (<5.7)	37 J	ND (<6)
2,4-D	700000	340	ND (<5.3)	ND (<5.7)	ND (<5.7)	ND (<62)	ND (<6)
2,4-DB	1900000	--	ND (<6.4)	ND (<6.8)	ND (<6.9)	ND (<74)	ND (<7.2)
Dicamba	1900000	--	ND (<5.3)	ND (<5.7)	ND (<5.7)	ND (<62)	ND (<6)
Dichlorprop	--	--	ND (<5.3)	ND (<5.7)	ND (<5.7)	ND (<62)	ND (<6)
MCPA	32000	--	ND (<5.3)	ND (<5.7)	ND (<5.7)	ND (<62)	ND (<6)
MCPP	63000	--	ND (<5.3)	ND (<5.7)	ND (<5.7)	ND (<62)	ND (<6)
Silvex (2,4,5-TP)	510000	870	ND (<5.3)	ND (<5.7)	ND (<5.7)	23 J	ND (<6)
Dalapon	--	--			ND (<47)		

Notes:
by EPA Method 8321A
Bold, Underlined and Highlighted = Analytical result exceeds screening level
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 2
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			**NTIP-02**	**PJ-03**	**TY-01**
Sample Date			**11/15/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8151A - Solid (µg/kg)**		
2,4,5-T	630000	12000	ND (<110)	ND (<24)	ND (<23)
2,4-D	700000	340	ND (<460)	ND (<95)	ND (<93)
Dalapon	--	--	ND (<230)	ND (<48)	ND (<47)
Dicamba	1900000	--	ND (<230)	ND (<48)	ND (<47)
Dichlorprop	--	--	ND (<460)	ND (<95)	ND (<93)
MCPA	32000	--	ND (<46000)	ND (<9500)	ND (<9300)
MCPP	63000	--	ND (<46000)	ND (<9500)	ND (<9300)
Silvex (2,4,5-TP)	510000	870	ND (<110)	ND (<24)	ND (<23)
2,4-DB	--	--	ND (<460)	ND (<95)	ND (<93)

Notes:
by EPA Method 8151A
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
ND = not detected above the reporting limit (<RL)
TPESL= Tropical Pacific Environmental screening unrestricted land use;
groundwater is not a current or potential drinking water resource (Fall 2017)

TDD: 0002/1302-T2-R9-17-12-0001
DCN: 0178 -08-ACDE

Table 3
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Concrete and Metal Sample

Sample ID			**NTIP-CS-01**	**OLV-DM-01**
Sample Date			**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8321A - Solid (µg/kg)**	
2,4,5-T	630000	12000	ND (<51) J	ND (<50) J
2,4-D	700000	340	ND (<51) J	ND (<50) J
2,4-DB	--	--	ND (<61) J	ND (<59) J
Dicamba	1900000	--	ND (<51) J	ND (<50) J
Dichlorprop	--	--	ND (<51) J	ND (<50) J
MCPA	32000	--	ND (<51) J	ND (<50) J
MCPP	63000	--	ND (<51) J	ND (<50) J
Silvex (2,4,5-TP)	510000	870	ND (<51) J	ND (<50) J

Notes:
by EPA Method 8321A
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

TDD: 0002/1302-T2-R9-17-12-0001
DCN: 0178 -08-ACDE

Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			MTM-01	NTIP-01	NTIP-02	OLV-01	OLV-02
Sample Date			**11/14/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
1,1'-Biphenyl	47000	10000	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
1,2,4,5-Tetrachlorobenzene	23000	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
1,2,4-Trichlorobenzene	24000	180	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
1,2-Dichlorobenzene	1800000	1100	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
1,2-Diphenylhydrazine(as Azobenzene)	680	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
1,3,5-Trinitrobenzene	2200000	2800	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
1,3-Dichlorobenzene	1800000	1100	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
1,3-Dinitrobenzene	6300	580	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
1,4-Dichlorobenzene	2600	1100	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
1,4-Dinitrobenzene	6300	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
1,4-Dioxane	5300	5400	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
1,4-Naphthoquinone	--	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
1-Chloronaphthalene	--	--	ND (<29000)	ND (<260000)	ND (<280000)	ND (<4100)	ND (<12000)
1-Methylnaphthalene	18000	890	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
1-Naphthylamine	--	--	ND (<7700) J	ND (<70000) J	ND (<75000) J	ND (<1100) J	ND (<3200) J
2,2'-oxybis[1-chloropropane]	--	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2,3,4,6-Tetrachlorophenol	1900000	56	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
2,4,5-Trichlorophenol	6300000	2900	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2,4,6-Trichlorophenol	49000	310	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2,4-Dichlorophenol	190000	73	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2,4-Dimethylphenol	1300000	9000	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)

Notes:
by EPA Method 8270D
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			OLV-03	PJ-01	PJ-02	PJ-02-20	PJ-03
Sample Date			11/15/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018
Analyte	EPA RSL (µg/kg)	TPESL (µg/kg)	EPA Method 8270D - Solid (µg/kg)				
1,1'-Biphenyl	47000	10000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,2,4,5-Tetrachlorobenzene	23000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,2,4-Trichlorobenzene	24000	180	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,2-Dichlorobenzene	1800000	1100	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,2-Diphenylhydrazine(as Azobenzene)	680	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,3,5-Trinitrobenzene	2200000	2800	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800) J
1,3-Dichlorobenzene	1800000	1100	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,3-Dinitrobenzene	6300	580	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,4-Dichlorobenzene	2600	1100	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,4-Dinitrobenzene	6300	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1,4-Dioxane	5300	5400	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
1,4-Naphthoquinone	--	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800) J
1-Chloronaphthalene	--	--	ND (<4000)	ND (<3300)	ND (<3100)	ND (<3200)	ND (<2900)
1-Methylnaphthalene	18000	890	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
1-Naphthylamine	--	--	ND (<1100) J	ND (<870) J	ND (<820) J	ND (<830) J	ND (<760) J
2,2'-oxybis[1-chloropropane]	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2,3,4,6-Tetrachlorophenol	1900000	56	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
2,4,5-Trichlorophenol	6300000	2900	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2,4,6-Trichlorophenol	49000	310	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2,4-Dichlorophenol	190000	73	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2,4-Dimethylphenol	1300000	9000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)

Notes:
by EPA Method 8270D
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			PJ-04	PJ-05	TY-01	TY-02	TY-02-20
Sample Date			11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018
Analyte	EPA RSL (µg/kg)	TPESL (µg/kg)	EPA Method 8270D - Solid (µg/kg)				
1,1'-Biphenyl	47000	10000	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,2,4,5-Tetrachlorobenzene	23000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,2,4-Trichlorobenzene	24000	180	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,2-Dichlorobenzene	1800000	1100	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,2-Diphenylhydrazine(as Azobenzene)	680	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,3,5-Trinitrobenzene	2200000	2800	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
1,3-Dichlorobenzene	1800000	1100	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,3-Dinitrobenzene	6300	580	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,4-Dichlorobenzene	2600	1100	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,4-Dinitrobenzene	6300	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1,4-Dioxane	5300	5400	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
1,4-Naphthoquinone	--	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
1-Chloronaphthalene	--	--	ND (<2700)	ND (<3000)	ND (<2800)	ND (<290000)	ND (<300000)
1-Methylnaphthalene	18000	890	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
1-Naphthylamine	--	--	ND (<720) J	ND (<800) J	ND (<730) J	ND (<77000) J	ND (<80000) J
2,2'-oxybis[1-chloropropane]	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2,3,4,6-Tetrachlorophenol	1900000	56	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
2,4,5-Trichlorophenol	6300000	2900	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2,4,6-Trichlorophenol	49000	310	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2,4-Dichlorophenol	190000	73	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2,4-Dimethylphenol	1300000	9000	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)

Notes:
by EPA Method 8270D
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			MTM-01	NTIP-01	NTIP-02	OLV-01	OLV-02
Sample Date			**11/14/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
2,4-Dinitrophenol	130000	1100	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
2,4-Dinitrotoluene	1700	870	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
2,6-Dichlorophenol	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
2,6-Dinitrotoluene	360	360	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
2-Acetylaminofluorene	140	--	ND (<38000)	ND (<350000)	ND (<370000)	ND (<5400)	ND (<16000)
2-Chloronaphthalene	--	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2-Chlorophenol	390000	120	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2-Methylnaphthalene	240000	1900	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2-Methylphenol	--	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2-Naphthylamine	300	--	ND (<7700) J	ND (<70000) J	ND (<75000) J	ND (<1100) J	ND (<3200) J
2-Nitroaniline	630000	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
2-Nitrophenol	--	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
2-Picoline	--	--	ND (<7700) J	ND (<70000) J	ND (<75000) J	ND (<1100) J	ND (<3200) J
2-Toluidine	--	--	ND (<7700) J	ND (<70000) J	ND (<75000) J	ND (<1100) J	ND (<3200) J
3 & 4 Methylphenol	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
3,3'-Dichlorobenzidine	1200	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
3,3'-Dimethylbenzidine	49	--	ND (<7700) J	ND (<70000) J	ND (<75000) J	ND (<1100) J	ND (<3200) J
3-Methylcholanthrene	5.5	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
3-Nitroaniline	--	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
4,6-Dinitro-2-methylphenol	--	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
4-Aminobiphenyl	26	--	ND (<19000) J	ND (<170000) J	ND (<180000) J	ND (<2600) J	ND (<7800) J

Notes:
by EPA Method 8270D
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			OLV-03	PJ-01	PJ-02	PJ-02-20	PJ-03
Sample Date			**11/15/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
2,4-Dinitrophenol	130000	1100	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
2,4-Dinitrotoluene	1700	870	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2,6-Dichlorophenol	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2,6-Dinitrotoluene	360	360	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2-Acetylaminofluorene	140	--	ND (<5300)	ND (<4400)	ND (<4100)	ND (<4200)	ND (<3800)
2-Chloronaphthalene	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2-Chlorophenol	390000	120	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2-Methylnaphthalene	240000	1900	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2-Methylphenol	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2-Naphthylamine	300	--	ND (<1100) J	ND (<870) J	ND (<820) J	ND (<830) J	ND (<760) J
2-Nitroaniline	630000	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
2-Nitrophenol	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
2-Picoline	--	--	ND (<1100) J	ND (<870) J	ND (<820) J	ND (<830) J	ND (<760) J
2-Toluidine	--	--	ND (<1100) J	ND (<870) J	ND (<820) J	ND (<830) J	ND (<760) J
3 & 4 Methylphenol	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
3,3'-Dichlorobenzidine	1200	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
3,3'-Dimethylbenzidine	49	--	ND (<1100) J	ND (<870) J	ND (<820) J	ND (<830) J	ND (<760) J
3-Methylcholanthrene	5.5	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
3-Nitroaniline	--	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
4,6-Dinitro-2-methylphenol	--	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
4-Aminobiphenyl	26	--	ND (<2600) J	ND (<2100) J	ND (<2000) J	ND (<2000) J	ND (<1800) J

Notes:
by EPA Method 8270D
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			PJ-04	PJ-05	TY-01	TY-02	TY-02-20
Sample Date			11/14/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018
Analyte	EPA RSL (µg/kg)	TPESL (µg/kg)	EPA Method 8270D - Solid (µg/kg)				
2,4-Dinitrophenol	130000	1100	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
2,4-Dinitrotoluene	1700	870	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2,6-Dichlorophenol	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2,6-Dinitrotoluene	360	360	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2-Acetylaminofluorene	140	--	ND (<3600)	ND (<4000)	ND (<3700)	ND (<390000)	ND (<400000)
2-Chloronaphthalene	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2-Chlorophenol	390000	120	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2-Methylnaphthalene	240000	1900	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2-Methylphenol	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2-Naphthylamine	300	--	ND (<720) J	ND (<800) J	ND (<730) J	ND (<77000) J	ND (<80000) J
2-Nitroaniline	630000	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
2-Nitrophenol	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
2-Picoline	--	--	ND (<720) J	ND (<800) J	ND (<730) J	ND (<77000) J	ND (<80000) J
2-Toluidine	--	--	ND (<720) J	ND (<800) J	ND (<730) J	ND (<77000) J	ND (<80000) J
3 & 4 Methylphenol	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
3,3'-Dichlorobenzidine	1200	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
3,3'-Dimethylbenzidine	49	--	ND (<720) J	ND (<800) J	ND (<730) J	ND (<77000) J	ND (<80000) J
3-Methylcholanthrene	5.5	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
3-Nitroaniline	--	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
4,6-Dinitro-2-methylphenol	--	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
4-Aminobiphenyl	26	--	ND (<1700) J	ND (<1900) J	ND (<1800) J	ND (<190000) J	ND (<190000) J

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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			MTM-01	NTIP-01	NTIP-02	OLV-01	OLV-02
Sample Date			**11/14/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
4-Bromophenyl phenyl ether	--	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
4-Chloro-3-methylphenol	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
4-Chloroaniline	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
4-Chlorophenyl phenyl ether	--	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
4-Methylphenol	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
4-Nitroaniline	27000	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Anthracene	18000000	1400	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Aramite Peak 1	--	--	ND (<3500)	ND (<32000)	ND (<34000)	ND (<490)	ND (<1500)
Aramite Peak 2	--	--	ND (<4200)	ND (<38000)	ND (<41000)	ND (<590)	ND (<1800)
Azobenzene	5600	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Benzidine	0.53	--	ND (<38000)	ND (<350000) J	ND (<370000) J	ND (<5400) J	ND (<16000) J
Benzo[a]anthracene	1100	3300	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Benzo[a]pyrene	110	3600	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Benzo[b]fluoranthene	1100	11000	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Benzo[g,h,i]perylene	--	35000	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Benzo[k]fluoranthene	11000	39000	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Benzoic acid	250000000	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Benzyl alcohol	6300000	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Bis(2-chloroethoxy)methane	190000	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Bis(2-chloroethyl)ether	230	7.9	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Bis(2-ethylhexyl) phthalate	39000	39000	ND (<3800)	**43,000 J**	ND (<37000)	5,700	ND (<1600)

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ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			OLV-03	PJ-01	PJ-02	PJ-02-20	PJ-03
Sample Date			**11/15/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
4-Bromophenyl phenyl ether	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
4-Chloro-3-methylphenol	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
4-Chloroaniline	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
4-Chlorophenyl phenyl ether	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
4-Methylphenol	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
4-Nitroaniline	27000	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Anthracene	18000000	1400	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Aramite Peak 1	--	--	ND (<490)	ND (<400)	ND (<370)	ND (<380)	ND (<350)
Aramite Peak 2	--	--	ND (<580)	ND (<480)	ND (<450)	ND (<460)	ND (<420)
Azobenzene	5600	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Benzidine	0.53	--	ND (<5300) J	ND (<4400)	ND (<4100)	ND (<4200)	ND (<3800) J
Benzo[a]anthracene	1100	3300	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Benzo[a]pyrene	110	3600	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Benzo[b]fluoranthene	1100	11000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Benzo[g,h,i]perylene	--	35000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Benzo[k]fluoranthene	11000	39000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Benzoic acid	250000000	--	ND (<2600)	1,000 J	ND (<2000)	ND (<2000)	ND (<1800) J
Benzyl alcohol	6300000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Bis(2-chloroethoxy)methane	190000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Bis(2-chloroethyl)ether	230	7.9	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Bis(2-ethylhexyl) phthalate	39000	39000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)

Notes:
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ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			PJ-04	PJ-05	TY-01	TY-02	TY-02-20
Sample Date			**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
4-Bromophenyl phenyl ether	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
4-Chloro-3-methylphenol	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
4-Chloroaniline	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
4-Chlorophenyl phenyl ether	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
4-Methylphenol	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
4-Nitroaniline	27000	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Anthracene	18000000	1400	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Aramite Peak 1	--	--	ND (<330)	ND (<360)	ND (<330)	ND (<35000)	ND (<36000)
Aramite Peak 2	--	--	ND (<390)	ND (<440)	ND (<400)	ND (<42000)	ND (<44000)
Azobenzene	5600	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Benzidine	0.53	--	ND (<3600)	ND (<4000)	ND (<3700)	ND (<390000)	ND (<400000)
Benzo[a]anthracene	1100	3300	ND (<360)	ND (<400)	73 J	ND (<39000)	ND (<40000)
Benzo[a]pyrene	110	3600	ND (<360)	ND (<400)	**120 J**	ND (<39000)	ND (<40000)
Benzo[b]fluoranthene	1100	11000	ND (<360)	ND (<400)	210 J	ND (<39000)	ND (<40000)
Benzo[g,h,i]perylene	--	35000	ND (<360)	ND (<400)	110 J	ND (<39000)	ND (<40000)
Benzo[k]fluoranthene	11000	39000	ND (<360)	ND (<400)	68 J	ND (<39000)	ND (<40000)
Benzoic acid	250000000	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Benzyl alcohol	6300000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Bis(2-chloroethoxy)methane	190000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Bis(2-chloroethyl)ether	230	7.9	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Bis(2-ethylhexyl) phthalate	39000	39000	ND (<360)	ND (<400)	120 J	ND (<39000)	ND (<40000)

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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			MTM-01	NTIP-01	NTIP-02	OLV-01	OLV-02
Sample Date			**11/14/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
Butyl benzyl phthalate	290000	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Carbazole	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Chrysene	110000	30000	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Dibenz(a,h)anthracene	110	1100	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Dibenz[a,j]acridine	--	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
Dibenzofuran	73000	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Diethyl phthalate	51000000	3700	ND (<7700)	ND (<70000) J	ND (<75000)	ND (<1100)	ND (<3200)
Dimethoate	140000	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
Dimethyl phthalate	--	26000	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Di-n-butyl phthalate	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Di-n-octyl phthalate	630000	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Diphenylamine	6300000	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Disulfoton	2500	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Ethyl 4,4'-Dichlorobenzilate	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Ethyl methanesulfonate	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Ethyl Parathion	--	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Fluoranthene	2400000	29000	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Fluorene	2400000	31000	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Hexachlorobenzene	210	78	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Hexachlorobutadiene	1200	61	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Hexachlorocyclopentadiene	1800	--	ND (<19000)	ND (<170000) J	ND (<180000)	ND (<2600)	ND (<7800)

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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			OLV-03	PJ-01	PJ-02	PJ-02-20	PJ-03
Sample Date			**11/15/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
Butyl benzyl phthalate	290000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Carbazole	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Chrysene	110000	30000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Dibenz(a,h)anthracene	110	1100	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Dibenz[a,j]acridine	--	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Dibenzofuran	73000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Diethyl phthalate	51000000	3700	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Dimethoate	140000	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Dimethyl phthalate	--	26000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Di-n-butyl phthalate	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Di-n-octyl phthalate	630000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Diphenylamine	6300000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Disulfoton	2500	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Ethyl 4,4'-Dichlorobenzilate	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Ethyl methanesulfonate	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Ethyl Parathion	--	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Fluoranthene	2400000	29000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Fluorene	2400000	31000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Hexachlorobenzene	210	78	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Hexachlorobutadiene	1200	61	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Hexachlorocyclopentadiene	1800	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800) J

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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			PJ-04	PJ-05	TY-01	TY-02	TY-02-20
Sample Date			**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
Butyl benzyl phthalate	290000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Carbazole	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Chrysene	110000	30000	ND (<360)	ND (<400)	130 J	ND (<39000)	ND (<40000)
Dibenz(a,h)anthracene	110	1100	ND (<360)	ND (<400)	25 J	ND (<39000)	ND (<40000)
Dibenz[a,j]acridine	--	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Dibenzofuran	73000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Diethyl phthalate	51000000	3700	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Dimethoate	140000	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Dimethyl phthalate	--	26000	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Di-n-butyl phthalate	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Di-n-octyl phthalate	630000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Diphenylamine	6300000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Disulfoton	2500	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Ethyl 4,4'-Dichlorobenzilate	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Ethyl methanesulfonate	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Ethyl Parathion	--	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Fluoranthene	2400000	29000	ND (<360)	ND (<400)	130 J	ND (<39000)	ND (<40000)
Fluorene	2400000	31000	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Hexachlorobenzene	210	78	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Hexachlorobutadiene	1200	61	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Hexachlorocyclopentadiene	1800	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)

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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			MTM-01	NTIP-01	NTIP-02	OLV-01	OLV-02
Sample Date			**11/14/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
Hexachloroethane	1800	680	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Hexachloropropene	--	--	ND (<38000) J	ND (<350000) J	ND (<370000) J	ND (<5400) J	ND (<16000) J
Indeno[1,2,3-cd]pyrene	1100	11000	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Isodrin	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Isophorone	570000	10000	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Methapyrilene	--	--	ND (<19000) J	ND (<170000) J	ND (<180000) J	ND (<2600) J	ND (<7800) J
Methyl methanesulfonate	5500	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Methyl parathion	16000	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Naphthalene	3800	3100	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Nitrobenzene	5100	5600	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
N-Nitro-o-toluidine	--	--	ND (<7700)	ND (<70000) J	ND (<75000) J	ND (<1100) J	ND (<3200) J
N-Nitrosodiethylamine	190	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosodimethylamine	2	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosodi-n-butylamine	99	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosodi-n-propylamine	78	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosodiphenylamine	11000	--	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosomethylethylamine	20	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosomorpholine	81	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosopiperidine	58	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
N-Nitrosopyrrolidine	260	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
o,o',o"-Triethylphosphorothioate	--	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)

Notes:
by EPA Method 8270D
Bold, Underlined and Highlighted = Analytical result exceeds screening levels
-- = Not Applicable
EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
J = Indicates the concentration is an approximate value because the analyte concentration is below the reporting limit and above the method detection limit
ND = not detected above the reporting limit (<RL)
µg/kg=micrograms per kilogram
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			OLV-03	PJ-01	PJ-02	PJ-02-20	PJ-03
Sample Date			**11/15/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
Hexachloroethane	1800	680	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380) J
Hexachloropropene	--	--	ND (<5300) J	ND (<4400) J	ND (<4100) J	ND (<4200) J	ND (<3800) J
Indeno[1,2,3-cd]pyrene	1100	11000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Isodrin	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Isophorone	570000	10000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Methapyrilene	--	--	ND (<2600) J	ND (<2100) J	ND (<2000) J	ND (<2000) J	ND (<1800) J
Methyl methanesulfonate	5500	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380) J
Methyl parathion	16000	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Naphthalene	3800	3100	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Nitrobenzene	5100	5600	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
N-Nitro-o-toluidine	--	--	ND (<1100) J	ND (<870)	ND (<820)	ND (<830)	ND (<760)
N-Nitrosodiethylamine	190	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380) J
N-Nitrosodimethylamine	2	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
N-Nitrosodi-n-butylamine	99	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
N-Nitrosodi-n-propylamine	78	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
N-Nitrosodiphenylamine	11000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
N-Nitrosomethylethylamine	20	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380) J
N-Nitrosomorpholine	81	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
N-Nitrosopiperidine	58	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
N-Nitrosopyrrolidine	260	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
o,o',o"-Triethylphosphorothioate	--	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800) J

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by EPA Method 8270D
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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			PJ-04	PJ-05	TY-01	TY-02	TY-02-20
Sample Date			**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
Hexachloroethane	1800	680	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Hexachloropropene	--	--	ND (<3600) J	ND (<4000) J	ND (<3700) J	ND (<390000) J	ND (<400000) J
Indeno[1,2,3-cd]pyrene	1100	11000	ND (<360)	ND (<400)	100 J	ND (<39000)	ND (<40000)
Isodrin	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Isophorone	570000	10000	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Methapyrilene	--	--	ND (<1700) J	ND (<1900) J	ND (<1800) J	ND (<190000) J	ND (<190000) J
Methyl methanesulfonate	5500	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Methyl parathion	16000	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Naphthalene	3800	3100	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Nitrobenzene	5100	5600	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitro-o-toluidine	--	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
N-Nitrosodiethylamine	190	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosodimethylamine	2	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosodi-n-butylamine	99	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosodi-n-propylamine	78	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosodiphenylamine	11000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosomethylethylamine	20	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosomorpholine	81	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosopiperidine	58	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
N-Nitrosopyrrolidine	260	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
o,o',o"-Triethylphosphorothioate	--	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)

Notes:
by EPA Method 8270D
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µg/kg=micrograms per kilogram
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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			MTM-01	NTIP-01	NTIP-02	OLV-01	OLV-02
Sample Date			**11/14/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**	**11/15/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
p-Dimethylamino azobenzene	120	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
Pentachlorobenzene	63000	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Pentachloroethane	7700	--	ND (<19000) J	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Pentachloronitrobenzene	2700	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Pentachlorophenol	1000	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Phenacetin	250000	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
Phenanthrene	--	23000	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Phenol	19000000	1800	ND (<3800)	ND (<35000) J	ND (<37000)	ND (<540)	ND (<1600)
Phorate	13000	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
p-Phenylene diamine	63000	--	ND (<19000) J	ND (<170000) J	ND (<180000) J	ND (<2600) J	ND (<7800) J
Pronamide	--	--	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Pyrene	1800000	41000	ND (<3800)	ND (<35000)	ND (<37000)	ND (<540)	ND (<1600)
Pyridine	780000	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
Safrole, Total	550	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Sulfotepp	--	--	ND (<12000)	ND (<110000)	ND (<110000)	ND (<1600)	ND (<4900)
Thionazin	--	--	ND (<19000)	ND (<170000)	ND (<180000)	ND (<2600)	ND (<7800)
Aramite, Total	--	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
Diallate	8900	--	ND (<7700)	ND (<70000)	ND (<75000)	ND (<1100)	ND (<3200)
Isosafrole	--	--	ND (<7700)	ND (<70000) J	ND (<75000)	ND (<1100)	ND (<3200)

Notes:
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EPA RSL=EPA Regional Screening Levels for residential soil (November 2018)
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µg/kg=micrograms per kilogram
TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

Table 4
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Summary of Analytical Data - Soil

Sample ID			OLV-03	PJ-01	PJ-02	PJ-02-20	PJ-03
Sample Date			**11/15/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
p-Dimethylamino azobenzene	120	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Pentachlorobenzene	63000	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Pentachloroethane	7700	--	ND (<2600)	ND (<2100) J	ND (<2000) J	ND (<2000) J	ND (<1800) J
Pentachloronitrobenzene	2700	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Pentachlorophenol	1000	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Phenacetin	250000	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Phenanthrene	--	23000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Phenol	19000000	1800	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Phorate	13000	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
p-Phenylene diamine	63000	--	ND (<2600) J	ND (<2100) J	ND (<2000) J	ND (<2000) J	ND (<1800) J
Pronamide	--	--	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Pyrene	1800000	41000	ND (<530)	ND (<440)	ND (<410)	ND (<420)	ND (<380)
Pyridine	780000	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Safrole, Total	550	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Sulfotepp	--	--	ND (<1600)	ND (<1300)	ND (<1200)	ND (<1300)	ND (<1200)
Thionazin	--	--	ND (<2600)	ND (<2100)	ND (<2000)	ND (<2000)	ND (<1800)
Aramite, Total	--	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Diallate	8900	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)
Isosafrole	--	--	ND (<1100)	ND (<870)	ND (<820)	ND (<830)	ND (<760)

Notes:
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Table 4
Guam Agent Orange Screening Assessment Site
Summary of Analytical Data - Soil

Sample ID			PJ-04	PJ-05	TY-01	TY-02	TY-02-20
Sample Date			**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**	**11/14/2018**
Analyte	**EPA RSL (µg/kg)**	**TPESL (µg/kg)**	**EPA Method 8270D - Solid (µg/kg)**				
p-Dimethylamino azobenzene	120	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Pentachlorobenzene	63000	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Pentachloroethane	7700	--	ND (<1700) J	ND (<1900) J	ND (<1800) J	ND (<190000) J	ND (<190000) J
Pentachloronitrobenzene	2700	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Pentachlorophenol	1000	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Phenacetin	250000	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Phenanthrene	--	23000	ND (<360)	ND (<400)	23 J	ND (<39000)	ND (<40000)
Phenol	19000000	1800	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Phorate	13000	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
p-Phenylene diamine	63000	--	ND (<1700) J	ND (<1900) J	ND (<1800) J	ND (<190000) J	ND (<190000) J
Pronamide	--	--	ND (<360)	ND (<400)	ND (<370)	ND (<39000)	ND (<40000)
Pyrene	1800000	41000	ND (<360)	ND (<400)	130 J	ND (<39000)	ND (<40000)
Pyridine	780000	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Safrole, Total	550	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Sulfotepp	--	--	ND (<1100)	ND (<1200)	ND (<1100)	ND (<120000)	ND (<120000)
Thionazin	--	--	ND (<1700)	ND (<1900)	ND (<1800)	ND (<190000)	ND (<190000)
Aramite, Total	--	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Diallate	8900	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)
Isosafrole	--	--	ND (<720)	ND (<800)	ND (<730)	ND (<77000)	ND (<80000)

Notes:
by EPA Method 8270D
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TPESL= Tropical Pacific Environmental screening unrestricted land use; groundwater is not a current or potential drinking water resource (Fall 2017)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-151865-1

Job Description: Andersen AFB, Guam - Herbicides

For:
AECOM Technical Services Inc.
1001 Bishop Street
Ste 1600
Honolulu, HI 96813

Attention: Dr. Brant Landers



Approved for release.
Stephanie K Rothmeyer
Project Manager I
5/15/2018 4:08 PM

Designee for
Patrick J McEntee, Manager of Project Management
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0107
patrick.mcentee@testamericainc.com
05/15/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Case Narrative 5

Detection Summary 6

Client Sample Results 7

Default Detection Limits 8

Surrogate Summary 9

QC Sample Results 10

QC Association 12

Chronicle 13

Certification Summary 15

Method Summary 17

Sample Summary 18

Manual Integration Summary 19

Reagent Traceability 28

COAs 79

Organic Sample Data 137

GC Semi VOA 137

Method 8151 DOD 137

Method 8151 DOD QC Summary 138

Method 8151 DOD Sample Data 153

Standards Data 174

Method 8151 DOD ICAL Data 174

Method 8151 DOD CCAL Data 437

Raw QC Data 544

Table of Contents

Method 8151 DOD Blank Data 544

Method 8151 DOD LCS/LCSD Data 587

Method 8151 DOD MS/MSD Data 593

Method 8151 DOD Run Logs 616

Method 8151 DOD Prep Data 620

Inorganic Sample Data 622

General Chemistry Data 622

Gen Chem Cover Page 623

Gen Chem MDL 624

Gen Chem Analysis Run Log 626

Gen Chem Prep Data 627

Gen Chem Raw Data 628

Shipping and Receiving Documents 629

Client Chain of Custody 630

Sample Receipt Checklist 631

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
D	The reported value is from a dilution.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: Andersen AFB, Guam - Herbicides

Report Number: 680-151865-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 5/2/2018 at 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

Receipt Exceptions
ISM preparation was performed by EMAX laboratories for the requested 8151 Herbicides analyses performed by TestAmerica.

Percent moisture analysis was performed by EMAX laboratories and data was provided to TestAmerica for dry weight correction on analytical results.

CHLORINATED HERBICIDES
Samples GQ001 (680-151865-1), GQ002 (680-151865-2) and GQ003 (680-151865-3) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/04/2018 and analyzed on 05/10/2018 and 05/11/2018.

2,4-Dichlorophenylacetic acid (Surr) failed the surrogate recovery criteria low for GQ001 (680-151865-1) and GQ002 (680-151865-2). There was insufficient sample to perform a re-extraction; therefore, the data have been reported. Associated results are flagged "Q".

2,4,5-T and 2,4-D failed the recovery criteria low for the MS and MSD of sample GQ003 (680-151865-3) in batch 680-523572. 2,4,5-T and 2,4-D exceeded the RPD limit. The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount. Refer to the QC report for details.

Sample GQ003 (680-151865-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Samples GQ001 (680-151865-1), GQ002 (680-151865-2) and GQ003 (680-151865-3) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 05/07/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151865-1

Client Sample ID: GQ001 — Lab Sample ID: 680-151865-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2,4-D	10	M	8.4	5.1	ug/Kg	1	☼	8151A DOD	Total/NA

Client Sample ID: GQ002 — Lab Sample ID: 680-151865-2

No Detections.

Client Sample ID: GQ003 — Lab Sample ID: 680-151865-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2,4,5-T	49	J1	8.4	2.3	ug/Kg	1	☼	8151A DOD	Total/NA
2,4-D	380	D J1	42	25	ug/Kg	5	☼	8151A DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GQ001 — Lab Sample ID: 680-151865-1

Date Collected: 04/23/18 13:20 — **Matrix: Solid**
Date Received: 05/02/18 08:45 — **Percent Solids: 98.6**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.4	U	8.4	2.3	ug/Kg	☼	05/04/18 14:00	05/10/18 04:28	1
2,4-D	**10**	**M**	8.4	5.1	ug/Kg	☼	05/04/18 14:00	05/10/18 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*23*	*M Q*	*27 - 122*	*05/04/18 14:00*	*05/10/18 04:28*	*1*

Client Sample ID: GQ002 — Lab Sample ID: 680-151865-2

Date Collected: 04/23/18 13:25 — **Matrix: Solid**
Date Received: 05/02/18 08:45 — **Percent Solids: 99.0**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.3	U M	8.4	2.3	ug/Kg	☼	05/04/18 14:00	05/10/18 04:47	1
2,4-D	8.4	U M	8.4	5.0	ug/Kg	☼	05/04/18 14:00	05/10/18 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*15*	*M Q*	*27 - 122*	*05/04/18 14:00*	*05/10/18 04:47*	*1*

Client Sample ID: GQ003 — Lab Sample ID: 680-151865-3

Date Collected: 04/23/18 13:30 — **Matrix: Solid**
Date Received: 05/02/18 08:45 — **Percent Solids: 98.9**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	**49**	**J1**	8.4	2.3	ug/Kg	☼	05/04/18 14:00	05/10/18 05:07	1
2,4-D	**380**	**D J1**	42	25	ug/Kg	☼	05/04/18 14:00	05/11/18 21:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*31*		*27 - 122*	*05/04/18 14:00*	*05/10/18 05:07*	*1*

Default Detection Limits

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151865-1

Method: 8151A DOD - Herbicides (GC)

Prep: 8151A

Analyte	LOQ	DL	Units	Method
2,4,5-T	8.3	2.3	ug/Kg	8151A DOD
2,4-D	8.3	5.0	ug/Kg	8151A DOD

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151865-1

Method: 8151A DOD - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCPAA2 (27-122)								
680-151865-1	GQ001	23 M Q								
680-151865-2	GQ002	15 M Q								
680-151865-3	GQ003	31								
680-151865-3 MS	GQ003	45 M								
680-151865-3 MSD	GQ003	35								
LCS 680-522658/5-A	Lab Control Sample	77								
MB 680-522658/4-A	Method Blank	69								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 8151A DOD - Herbicides (GC)

Lab Sample ID: MB 680-522658/4-A
Matrix: Solid
Analysis Batch: 523317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522658

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.2	U M	8.1	2.3	ug/Kg		05/04/18 14:00	05/10/18 03:48	1
2,4-D	8.1	U	8.1	4.9	ug/Kg		05/04/18 14:00	05/10/18 03:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*69*		*27 - 122*	*05/04/18 14:00*	*05/10/18 03:48*	*1*

Lab Sample ID: LCS 680-522658/5-A
Matrix: Solid
Analysis Batch: 523317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522658

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			16.2	9.28		ug/Kg		57	31 - 138		
2,4-D			64.8	46.3		ug/Kg		72	28 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr)	*77*		*27 - 122*

Lab Sample ID: 680-151865-3 MS
Matrix: Solid
Analysis Batch: 523317

Client Sample ID: GQ003
Prep Type: Total/NA
Prep Batch: 522658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T	49	J1	16.8	9.26	M J1	ug/Kg	☼	-236	31 - 138		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr)	*45*	*M*	*27 - 122*

Lab Sample ID: 680-151865-3 MS
Matrix: Solid
Analysis Batch: 523572

Client Sample ID: GQ003
Prep Type: Total/NA
Prep Batch: 522658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D	380	D J1	67.3	31.5	J D 4	ug/Kg	☼	-514	28 - 144		

Lab Sample ID: 680-151865-3 MSD
Matrix: Solid
Analysis Batch: 523317

Client Sample ID: GQ003
Prep Type: Total/NA
Prep Batch: 522658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	49	J1	16.8	25.6	J1	ug/Kg	☼	-139	31 - 138	94	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr)	*35*		*27 - 122*

Method: 8151A DOD - Herbicides (GC) (Continued)

Lab Sample ID: 680-151865-3 MSD
Matrix: Solid
Analysis Batch: 523572

Client Sample ID: GQ003
Prep Type: Total/NA
Prep Batch: 522658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	380	D J1	67.3	139	D 4 J1	ug/Kg	☼	-354	28 - 144	126	30

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151865-1

GC Semi VOA

Prep Batch: 522658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151865-1	GQ001	Total/NA	Solid	8151A	
680-151865-2	GQ002	Total/NA	Solid	8151A	
680-151865-3	GQ003	Total/NA	Solid	8151A	
MB 680-522658/4-A	Method Blank	Total/NA	Solid	8151A	
LCS 680-522658/5-A	Lab Control Sample	Total/NA	Solid	8151A	
680-151865-3 MS	GQ003	Total/NA	Solid	8151A	
680-151865-3 MSD	GQ003	Total/NA	Solid	8151A	

Analysis Batch: 523317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151865-1	GQ001	Total/NA	Solid	8151A DOD	522658
680-151865-2	GQ002	Total/NA	Solid	8151A DOD	522658
680-151865-3	GQ003	Total/NA	Solid	8151A DOD	522658
MB 680-522658/4-A	Method Blank	Total/NA	Solid	8151A DOD	522658
LCS 680-522658/5-A	Lab Control Sample	Total/NA	Solid	8151A DOD	522658
680-151865-3 MS	GQ003	Total/NA	Solid	8151A DOD	522658
680-151865-3 MSD	GQ003	Total/NA	Solid	8151A DOD	522658

Analysis Batch: 523572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151865-3	GQ003	Total/NA	Solid	8151A DOD	522658
680-151865-3 MS	GQ003	Total/NA	Solid	8151A DOD	522658
680-151865-3 MSD	GQ003	Total/NA	Solid	8151A DOD	522658

General Chemistry

Analysis Batch: 523856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151865-1	GQ001	Total/NA	Solid	Moisture	
680-151865-2	GQ002	Total/NA	Solid	Moisture	
680-151865-3	GQ003	Total/NA	Solid	Moisture	

Client Sample ID: GQ001 — Lab Sample ID: 680-151865-1

Date Collected: 04/23/18 13:20 — **Matrix: Solid**
Date Received: 05/02/18 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ001 — Lab Sample ID: 680-151865-1

Date Collected: 04/23/18 13:20 — **Matrix: Solid**
Date Received: 05/02/18 08:45 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522658	05/04/18 14:00	CEW	TAL SAV
Total/NA	Analysis	8151A DOD		1	523317	05/10/18 04:28	JCK	TAL SAV

Client Sample ID: GQ002 — Lab Sample ID: 680-151865-2

Date Collected: 04/23/18 13:25 — **Matrix: Solid**
Date Received: 05/02/18 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ002 — Lab Sample ID: 680-151865-2

Date Collected: 04/23/18 13:25 — **Matrix: Solid**
Date Received: 05/02/18 08:45 — **Percent Solids: 99.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522658	05/04/18 14:00	CEW	TAL SAV
Total/NA	Analysis	8151A DOD		1	523317	05/10/18 04:47	JCK	TAL SAV

Client Sample ID: GQ003 — Lab Sample ID: 680-151865-3

Date Collected: 04/23/18 13:30 — **Matrix: Solid**
Date Received: 05/02/18 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ003 — Lab Sample ID: 680-151865-3

Date Collected: 04/23/18 13:30 — **Matrix: Solid**
Date Received: 05/02/18 08:45 — **Percent Solids: 98.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522658	05/04/18 14:00	CEW	TAL SAV
Total/NA	Analysis	8151A DOD		1	523317	05/10/18 05:07	JCK	TAL SAV
Total/NA	Prep	8151A			522658	05/04/18 14:00	CEW	TAL SAV
Total/NA	Analysis	8151A DOD		5	523572	05/11/18 21:55	JCK	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 680-151865-1
Project/Site: Andersen AFB, Guam - Herbicides

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-19
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		P330-17-00213	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 680-151865-1
Project/Site: Andersen AFB, Guam - Herbicides

Laboratory: TestAmerica Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19
New Jersey	NELAP	2	CO004	06-30-18

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151865-1

Method	Method Description	Protocol	Laboratory
8151A DOD	Herbicides (GC)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV
8151A	Extraction (Herbicides)	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151865-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-151865-1	GQ001	Solid	04/23/18 13:20	05/02/18 08:45
680-151865-2	GQ002	Solid	04/23/18 13:25	05/02/18 08:45
680-151865-3	GQ003	Solid	04/23/18 13:30	05/02/18 08:45

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523317

Lab Sample ID: IC 680-523317/4 Client Sample ID:

Date Analyzed: 05/09/18 17:59 Lab File ID: SE090004.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.49	Peak assignment corrected	kellarj	05/09/18 18:47
3,5-Dichlorobenzoic acid	6.05	Peak assignment corrected	kellarj	05/09/18 18:48
4-Nitrophenol	6.17	Peak assignment corrected	kellarj	05/09/18 18:48
2,4-Dichlorophenylacetic acid (Surr)	6.61	Peak assignment corrected	kellarj	05/09/18 18:48
Dicamba	6.64	Peak assignment corrected	kellarj	05/09/18 18:48
MCPP	6.79	Peak assignment corrected	kellarj	05/10/18 10:25
MCPA	6.92	Peak assignment corrected	kellarj	05/09/18 18:48
Dichlorprop	7.10	Peak assignment corrected	kellarj	05/09/18 18:48
2,4-D	7.25	Peak assignment corrected	kellarj	05/09/18 18:48
Pentachlorophenol	7.60	Peak assignment corrected	kellarj	05/09/18 18:49
Silvex (2,4,5-TP)	7.69	Peak assignment corrected	kellarj	05/09/18 18:49
Chloramben	7.77	Peak assignment corrected	kellarj	05/09/18 18:49
2,4,5-T	7.85	Peak assignment corrected	kellarj	05/09/18 18:49
2,4-DB	8.09	Peak assignment corrected	kellarj	05/09/18 18:49
Dinoseb	8.15	Peak assignment corrected	kellarj	05/09/18 18:49
Bentazon	8.22	Peak assignment corrected	kellarj	05/09/18 18:49
Picloram	8.44	Baseline Smoothing	kellarj	05/09/18 18:49
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.54	Peak assignment corrected	kellarj	05/09/18 18:49
Acifluorfen	9.58	Peak assignment corrected	kellarj	05/09/18 18:49

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523317

Lab Sample ID: IC 680-523317/4 Client Sample ID:

Date Analyzed: 05/09/18 17:59 Lab File ID: SE090004.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.54	Peak assignment corrected	kellarj	05/09/18 18:49
3,5-Dichlorobenzoic acid	6.04	Peak assignment corrected	kellarj	05/09/18 18:50
4-Nitrophenol	6.43	Peak assignment corrected	kellarj	05/09/18 18:50
2,4-Dichlorophenylacetic acid (Surr)	6.75	Peak assignment corrected	kellarj	05/09/18 18:50
Dicamba	6.84	Peak assignment corrected	kellarj	05/09/18 18:50
MCPP	6.89	Peak assignment corrected	kellarj	05/09/18 18:50
MCPA	7.08	Peak assignment corrected	kellarj	05/09/18 18:50
Dichlorprop	7.23	Peak assignment corrected	kellarj	05/09/18 18:50
2,4-D	7.44	Peak assignment corrected	kellarj	05/09/18 18:50
Pentachlorophenol	7.64	Peak assignment corrected	kellarj	05/09/18 18:50
Silvex (2,4,5-TP)	7.78	Peak assignment corrected	kellarj	05/09/18 18:50
2,4,5-T	8.01	Peak assignment corrected	kellarj	05/09/18 18:50
Chloramben	8.08	Peak assignment corrected	kellarj	05/09/18 18:50
Dinoseb	8.18	Peak assignment corrected	kellarj	05/09/18 18:51
2,4-DB	8.22	Peak assignment corrected	kellarj	05/09/18 18:50
Bentazon	8.58	Peak assignment corrected	kellarj	05/09/18 18:51
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.70	Peak assignment corrected	kellarj	05/09/18 18:51
Picloram	8.92	Baseline Smoothing	kellarj	05/09/18 18:51
Acifluorfen	9.72	Peak assignment corrected	kellarj	05/09/18 18:51

Lab Sample ID: IC 680-523317/5 Client Sample ID:

Date Analyzed: 05/09/18 18:19 Lab File ID: SE090005.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MCPP	6.79	Peak assignment corrected	kellarj	05/10/18 10:26

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523317

Lab Sample ID: IC 680-523317/5 Client Sample ID:

Date Analyzed: 05/09/18 18:19 Lab File ID: SE090005.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MCPP	6.88	Unspecified		

Lab Sample ID: PIBLK 680-523317/33 Client Sample ID:

Date Analyzed: 05/10/18 03:29 Lab File ID: SE090033.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/10/18 11:01

Lab Sample ID: PIBLK 680-523317/33 Client Sample ID:

Date Analyzed: 05/10/18 03:29 Lab File ID: SE090033.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

Lab Sample ID: MB 680-522658/4-A Client Sample ID:

Date Analyzed: 05/10/18 03:48 Lab File ID: SE090034.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Invalid Compound ID	kellarj	05/10/18 11:19

Lab Sample ID: MB 680-522658/4-A Client Sample ID:

Date Analyzed: 05/10/18 03:48 Lab File ID: SE090034.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Unspecified		

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523317

Lab Sample ID: 680-151865-1 Client Sample ID: GQ001

Date Analyzed: 05/10/18 04:28 Lab File ID: SE090036.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.60	Baseline Smoothing	kellarj	05/10/18 11:19
2,4-D	7.24	Baseline Smoothing	kellarj	05/10/18 11:19

Lab Sample ID: 680-151865-1 Client Sample ID: GQ001

Date Analyzed: 05/10/18 04:28 Lab File ID: SE090036.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.75	Baseline Smoothing	kellarj	05/10/18 11:19
2,4-D	7.44	Baseline Smoothing	kellarj	05/10/18 11:19

Lab Sample ID: 680-151865-2 Client Sample ID: GQ002

Date Analyzed: 05/10/18 04:47 Lab File ID: SE090037.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.61	Baseline Smoothing	kellarj	05/10/18 11:20
2,4-D	7.24	Baseline Smoothing	kellarj	05/10/18 11:20
2,4,5-T		Invalid Compound ID	kellarj	05/10/18 11:20

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523317

Lab Sample ID: 680-151865-2 Client Sample ID: GQ002

Date Analyzed: 05/10/18 04:47 Lab File ID: SE090037.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.75	Baseline Smoothing	kellarj	05/10/18 11:20
2,4-D	7.44	Baseline Smoothing	kellarj	05/10/18 11:20
2,4,5-T		Baseline Smoothing	kellarj	05/10/18 11:20

Lab Sample ID: 680-151865-3 MS Client Sample ID: GQ003 MS

Date Analyzed: 05/10/18 05:26 Lab File ID: SE090039.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.61	Baseline Smoothing	kellarj	05/10/18 11:20
2,4-D	7.24	Baseline Smoothing	kellarj	05/10/18 11:20
2,4,5-T	7.85	Baseline Smoothing	kellarj	05/10/18 11:20

Lab Sample ID: 680-151865-3 MS Client Sample ID: GQ003 MS

Date Analyzed: 05/10/18 05:26 Lab File ID: SE090039.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.75	Baseline Smoothing	kellarj	05/10/18 11:20
2,4-D	7.44	Baseline Smoothing	kellarj	05/10/18 11:20
2,4,5-T	8.01	Baseline Smoothing	kellarj	05/10/18 11:20

Lab Sample ID: PIBLK 680-523317/48 Client Sample ID:

Date Analyzed: 05/10/18 08:23 Lab File ID: SE090048.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Invalid Compound ID	kellarj	05/10/18 11:18

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523317

Lab Sample ID: PIBLK 680-523317/48 Client Sample ID:

Date Analyzed: 05/10/18 08:23 Lab File ID: SE090048.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Unspecified		

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523572

Lab Sample ID: ICV 680-523572/12 CCV Client Sample ID:

Date Analyzed: 05/11/18 14:23 Lab File ID: SE110012.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dichlorobenzoic acid	6.01	Baseline Smoothing	kellarj	05/11/18 15:41
4-Nitrophenol	6.39	Baseline Smoothing	kellarj	05/11/18 15:41
2,4-Dichlorophenylacetic acid (Surr)	6.72	Baseline Smoothing	kellarj	05/11/18 15:41
Dicamba	6.80	Baseline Smoothing	kellarj	05/11/18 15:41
MCPP	6.85	Baseline Smoothing	kellarj	05/11/18 15:41
MCPA	7.05	Baseline Smoothing	kellarj	05/11/18 15:41
Dichlorprop	7.19	Baseline Smoothing	kellarj	05/11/18 15:41
2,4-D	7.41	Baseline Smoothing	kellarj	05/11/18 15:41
Pentachlorophenol	7.61	Baseline Smoothing	kellarj	05/11/18 15:41
Silvex (2,4,5-TP)	7.74	Baseline Smoothing	kellarj	05/11/18 15:41
2,4,5-T	7.98	Baseline Smoothing	kellarj	05/11/18 15:41
Chloramben	8.05	Baseline Smoothing	kellarj	05/11/18 15:41
Dinoseb	8.14	Baseline Smoothing	kellarj	05/11/18 15:41
2,4-DB	8.19	Baseline Smoothing	kellarj	05/11/18 15:41
Bentazon	8.54	Baseline Smoothing	kellarj	05/11/18 15:41
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.66	Baseline Smoothing	kellarj	05/11/18 15:41
Picloram	8.88	Baseline Smoothing	kellarj	05/11/18 15:41
Acifluorfen	9.68	Baseline Smoothing	kellarj	05/11/18 15:41

Lab Sample ID: CCV 680-523572/30 Client Sample ID:

Date Analyzed: 05/11/18 20:17 Lab File ID: SE110030.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3,5-Dichlorobenzoic acid	6.01	Split Peak	kellarj	05/12/18 10:43

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523572

Lab Sample ID: CCV 680-523572/30 Client Sample ID:

Date Analyzed: 05/11/18 20:17 Lab File ID: SE110030.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dalapon	2.49	Baseline Smoothing	kellarj	05/12/18 10:43

Lab Sample ID: CCV 680-523572/49 Client Sample ID:

Date Analyzed: 05/12/18 02:29 Lab File ID: SE110049.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.72	Baseline Smoothing	kellarj	05/12/18 10:44
Dicamba	6.80	Baseline Smoothing	kellarj	05/12/18 10:44
MCPP	6.85	Baseline Smoothing	kellarj	05/12/18 10:44
MCPA	7.05	Baseline Smoothing	kellarj	05/12/18 10:44
Dichlorprop	7.19	Baseline Smoothing	kellarj	05/12/18 10:44
2,4-D	7.41	Baseline Smoothing	kellarj	05/12/18 10:44
Pentachlorophenol	7.61	Baseline Smoothing	kellarj	05/12/18 10:44
Silvex (2,4,5-TP)	7.74	Baseline Smoothing	kellarj	05/12/18 10:44
2,4,5-T	7.98	Baseline Smoothing	kellarj	05/12/18 10:44
Chloramben	8.05	Baseline Smoothing	kellarj	05/12/18 10:44
Dinoseb	8.14	Baseline Smoothing	kellarj	05/12/18 10:44
2,4-DB	8.19	Baseline Smoothing	kellarj	05/12/18 10:44
Bentazon	8.54	Baseline Smoothing	kellarj	05/12/18 10:44
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.66	Baseline Smoothing	kellarj	05/12/18 10:44
Picloram	8.88	Baseline Smoothing	kellarj	05/12/18 10:44

Lab Sample ID: PIBLK 680-523572/50 Client Sample ID:

Date Analyzed: 05/12/18 02:49 Lab File ID: SE110050.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Invalid Compound ID	kellarj	05/12/18 10:44

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523572

Lab Sample ID: PIBLK 680-523572/50 Client Sample ID:

Date Analyzed: 05/12/18 02:49 Lab File ID: SE110050.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Unspecified		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HERBwkLCS_00049	05/05/18	04/25/18	meoh, Lot SG_meOH_00004	200 mL	HERBICVMASTER_00013	20 mL	2,4,6-Trichlorophenol	1 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							3,5-Dichlorobenzoic acid	2 ug/mL
							4-Nitrophenol	2 ug/mL
							Acifluorfen	2 ug/mL
							Bentazon	2 ug/mL
							Chloramben	2 ug/mL
							DCPA	2 ug/mL
							2,4,5-T	0.5 ug/mL
							2,4-D	2 ug/mL
							2,4-DB	2 ug/mL
							Dalapon	2 ug/mL
							Dicamba	1 ug/mL
							Dichlorprop	2 ug/mL
							Dinoseb	2 ug/mL
							MCPA	200 ug/mL
							MCPP	200 ug/mL
							Pentachlorophenol	0.5 ug/mL
							Picloram	2 ug/mL
							Silvex (2,4,5-TP)	0.5 ug/mL
					HERBMASTER_00032	20 mL	2,4,5-T	0.5 ug/mL
							2,4-D	2 ug/mL
							2,4-DB	2 ug/mL
							Dalapon	2 ug/mL
							Dicamba	1 ug/mL
							Dichlorprop	2 ug/mL
							Dinoseb	2 ug/mL
							MCPA	200 ug/mL
							MCPP	200 ug/mL
							Pentachlorophenol	0.5 ug/mL
							Picloram	2 ug/mL
							Silvex (2,4,5-TP)	0.5 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							3,5-Dichlorobenzoic acid	2 ug/mL
							4-Nitrophenol	2 ug/mL
							Acifluorfen	2 ug/mL
							Bentazon	2 ug/mL
							Chloramben	2 ug/mL
							DCPA	2 ug/mL
.HERBICVMASTER_00013	05/05/18	02/05/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHERBADDICV_00013	2.5 mL	2,4,6-Trichlorophenol	5 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DCPA	10 ug/mL
					SGHerbICV1_00005	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00006	1.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
..SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		2,4,6-Trichlorophenol	100 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
..SGHerbICV1_00005	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
.HERBMASTER_00032	05/05/18	02/05/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHerbList1_00006	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbList1_00008	1.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHMCCALFA_00040	2.5 mL	2,4,6-Trichlorophenol	5 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
..SGHerbList1_00006	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHMCCALFA_00040	06/30/18		RESTEK, Lot A0123630		(Purchased Reagent)		2,4,6-Trichlorophenol	100 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
SG HerbwkSurr_00044	07/16/18	04/16/18	Methanol, Lot 5248086	500 mL	SGDCAAFA_00054	1 mL	2,4-Dichlorophenylacetic acid (Surr)	2 ug/mL
.SGDCAAFA_00054	10/16/18		Restek, Lot A0128506		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SG HIBLK_00063	11/08/18	05/08/18	MTBE, Lot A0380840	50 mL	DCAAME_00011	500 uL	2,4-Dichlorophenylacetic acid (Surr)	1.004 ug/mL
.DCAAME_00011	11/08/18		Ultra Scientific, Lot CP-4762		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	100.4 ug/mL
SGHERB-1_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.04 mL	3,5-Dichlorobenzoic acid	0.01 ug/mL
							4-Nitrophenol	0.01 ug/mL
							Acifluorfen	0.01 ug/mL
							Bentazon	0.01 ug/mL
							Chloramben	0.01 ug/mL
							DCPA	0.01 ug/mL
							2,4,5-T	0.0025 ug/mL
							2,4-D	0.01 ug/mL
							2,4-DB	0.01 ug/mL
							Dalapon	0.01 ug/mL
							Dicamba	0.005 ug/mL
							Dichlorprop	0.01 ug/mL
							Dinoseb	0.01 ug/mL
							MCPA	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1 ug/mL
							Pentachlorophenol	0.0025 ug/mL
							Picloram	0.01 ug/mL
							Silvex (2,4,5-TP)	0.0025 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.01 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-2_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.1 mL	3,5-Dichlorobenzoic acid	0.025 ug/mL
							4-Nitrophenol	0.025 ug/mL
							Acifluorfen	0.025 ug/mL
							Bentazon	0.025 ug/mL
							Chloramben	0.025 ug/mL
							DCPA	0.025 ug/mL
							2,4,5-T	0.00625 ug/mL
							2,4-D	0.025 ug/mL
							2,4-DB	0.025 ug/mL
							Dalapon	0.025 ug/mL
							Dicamba	0.0125 ug/mL
							Dichlorprop	0.025 ug/mL
							Dinoseb	0.025 ug/mL
							MCPA	2.5 ug/mL
							MCPP	2.5 ug/mL
							Pentachlorophenol	0.00625 ug/mL
							Picloram	0.025 ug/mL
							Silvex (2,4,5-TP)	0.00625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.025 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-3_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.2 mL	3,5-Dichlorobenzoic acid	0.05 ug/mL
							4-Nitrophenol	0.05 ug/mL
							Acifluorfen	0.05 ug/mL
							Bentazon	0.05 ug/mL
							Chloramben	0.05 ug/mL
							DCPA	0.05 ug/mL
							2,4,5-T	0.0125 ug/mL
							2,4-D	0.05 ug/mL
							2,4-DB	0.05 ug/mL
							Dalapon	0.05 ug/mL
							Dicamba	0.025 ug/mL
							Dichlorprop	0.05 ug/mL
							Dinoseb	0.05 ug/mL
							MCPA	5 ug/mL
							MCPP	5 ug/mL
							Pentachlorophenol	0.0125 ug/mL
							Picloram	0.05 ug/mL
							Silvex (2,4,5-TP)	0.0125 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.05 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-4_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	25 mL	SGHERBCALINT_00030	1 mL	3,5-Dichlorobenzoic acid	0.1 ug/mL
							4-Nitrophenol	0.1 ug/mL
							Acifluorfen	0.1 ug/mL
							Bentazon	0.1 ug/mL
							Chloramben	0.1 ug/mL
							DCPA	0.1 ug/mL
							2,4,5-T	0.025 ug/mL
							2,4-D	0.1 ug/mL
							2,4-DB	0.1 ug/mL
							Dalapon	0.1 ug/mL
							Dicamba	0.05 ug/mL
							Dichlorprop	0.1 ug/mL
							Dinoseb	0.1 ug/mL
							MCPA	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	10 ug/mL
							Pentachlorophenol	0.025 ug/mL
							Picloram	0.1 ug/mL
							Silvex (2,4,5-TP)	0.025 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.1 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-5_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHERBCALINT_00030	3.5 mL	3,5-Dichlorobenzoic acid	0.175 ug/mL
							4-Nitrophenol	0.175 ug/mL
							Acifluorfen	0.175 ug/mL
							Bentazon	0.175 ug/mL
							Chloramben	0.175 ug/mL
							DCPA	0.175 ug/mL
							2,4,5-T	0.04375 ug/mL
							2,4-D	0.175 ug/mL
							2,4-DB	0.175 ug/mL
							Dalapon	0.175 ug/mL
							Dicamba	0.0875 ug/mL
							Dichlorprop	0.175 ug/mL
							Dinoseb	0.175 ug/mL
							MCPA	17.5 ug/mL
							MCPP	17.5 ug/mL
							Pentachlorophenol	0.04375 ug/mL
							Picloram	0.175 ug/mL
							Silvex (2,4,5-TP)	0.04375 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.175 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-6_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	1 mL	3,5-Dichlorobenzoic acid	0.25 ug/mL
							4-Nitrophenol	0.25 ug/mL
							Acifluorfen	0.25 ug/mL
							Bentazon	0.25 ug/mL
							Chloramben	0.25 ug/mL
							DCPA	0.25 ug/mL
							2,4,5-T	0.0625 ug/mL
							2,4-D	0.25 ug/mL
							2,4-DB	0.25 ug/mL
							Dalapon	0.25 ug/mL
							Dicamba	0.125 ug/mL
							Dichlorprop	0.25 ug/mL
							Dinoseb	0.25 ug/mL
							MCPA	25 ug/mL
							MCPP	25 ug/mL
							Pentachlorophenol	0.0625 ug/mL
							Picloram	0.25 ug/mL
							Silvex (2,4,5-TP)	0.0625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.25 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-7_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	2 mL	3,5-Dichlorobenzoic acid	0.5 ug/mL
							4-Nitrophenol	0.5 ug/mL
							Acifluorfen	0.5 ug/mL
							Bentazon	0.5 ug/mL
							Chloramben	0.5 ug/mL
							DCPA	0.5 ug/mL
							2,4,5-T	0.125 ug/mL
							2,4-D	0.5 ug/mL
							2,4-DB	0.5 ug/mL
							Dalapon	0.5 ug/mL
							Dicamba	0.25 ug/mL
							Dichlorprop	0.5 ug/mL
							Dinoseb	0.5 ug/mL
							MCPA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	50 ug/mL
							Pentachlorophenol	0.125 ug/mL
							Picloram	0.5 ug/mL
							Silvex (2,4,5-TP)	0.125 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.5 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-8_00011	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	4 mL	3,5-Dichlorobenzoic acid	1 ug/mL
							4-Nitrophenol	1 ug/mL
							Acifluorfen	1 ug/mL
							Bentazon	1 ug/mL
							Chloramben	1 ug/mL
							DCPA	1 ug/mL
							2,4,5-T	0.25 ug/mL
							2,4-D	1 ug/mL
							2,4-DB	1 ug/mL
							Dalapon	1 ug/mL
							Dicamba	0.5 ug/mL
							Dichlorprop	1 ug/mL
							Dinoseb	1 ug/mL
							MCPA	100 ug/mL
							MCPP	100 ug/mL
							Pentachlorophenol	0.25 ug/mL
							Picloram	1 ug/mL
							Silvex (2,4,5-TP)	0.25 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	1 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERBICV_00014	06/30/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBICVINT_00037	700 uL	2,4,5-T	0.04375 ug/mL
							2,4-D	0.175 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.175 ug/mL
.SGHERBICVINT_00037	06/30/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBICVINT_00035	10 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBICVINT_00036	10 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBICVINT_00035	06/30/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBMASTER_00033	2.5 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBMASTER_00033	06/30/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHerbList1_00007	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00008	0.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00011	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
....SGHerbList1_00007	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00011	11/05/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBICVINT_00036	06/30/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBMASTER_00033	2.5 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBMASTER_00033	06/30/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHerbList1_00007	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00008	0.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00011	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
....SGHerbList1_00007	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00011	11/05/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18	Restek, Lot A0132641			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL

Reagent

DCAAME_00011

Certificate of Analysis

DCAA Methyl Ester Solution

Product Number: PPS-161 **Page:** 1 of 1

Lot Number: CP-4762 **Lot Issue Date:** 20-Sep-2016 **Expiration Date:** 31-Oct-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
DCAA methyl ester	055954-23-9	RM03071	100.0 ± 0.5 µg/mL

Matrix: methyl tert-butyl ether (MTBE)

Storage: Store at Room Temperature (15° to 30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Vincent Wang, Ph.D.
Director of QA/RA

ISO 9001
Registered
TUV USA, Inc.

250 SMITH STREET • NORTH KINGSTOWN, RHODE ISLAND 02852 • WWW.ULTRASCI.COM

Reagent

SGDCAAFA_00054

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567804 **Lot No.:** A0128506

Description : DCAA Standard

DCAA Standard 1,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4-dichlorophenylacetic acid	1,007.0 µg/mL	+/- 5.9813 µg/mL	Gravimetric
	CAS # 19719-28-9 (Lot S30618V)		+/- 53.5730 µg/mL	Unstressed
	Purity 99%		+/- 53.6627 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

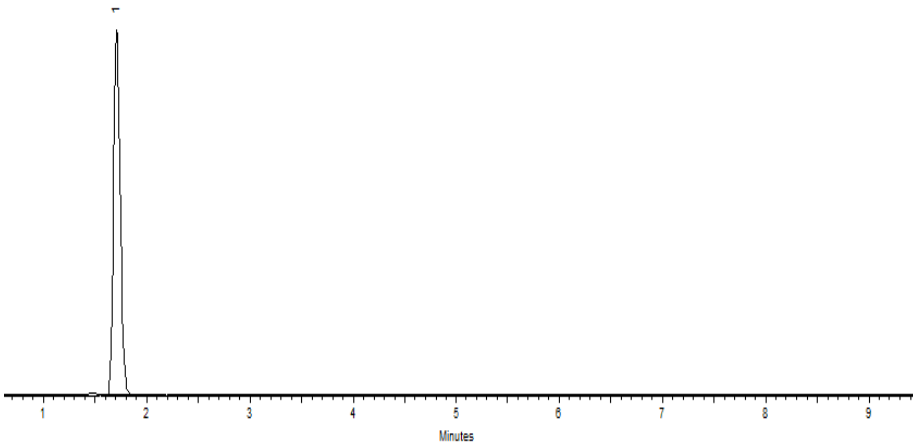
Flow Rate:
1.0 ml/min.

Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 15-Jun-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jun-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGDCAAFA_00064

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567804 **Lot No.:** A0132641

Description : DCAA Standard

DCAA Standard 1,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4-dichlorophenylacetic acid	1,000.8 µg/mL	+/- 5.8733 µg/mL	Gravimetric
	CAS # 19719-28-9 (Lot S30618V)		+/- 53.2353 µg/mL	Unstressed
	Purity 99%		+/- 53.3244 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

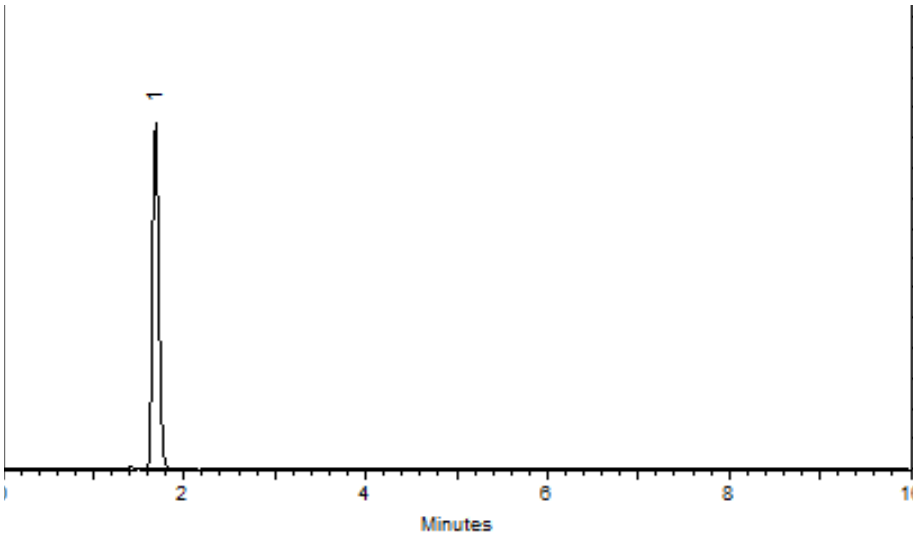
Flow Rate:
1.0 ml/min.

Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 21-Nov-2017 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Nov-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHERBADDICV_00013

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570473.SEC **Lot No.:** A0123922

Description : Custom Herbicide Additions Standard

Custom Herbicide Additions Standard 100-200 µg/mL, Acetonitrile, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,6-Trichlorophenol	100.0 µg/mL	+/- 0.7088 µg/mL	Gravimetric
	CAS # 88-06-2.SEC (Lot UUMYM)		+/- 5.3320 µg/mL	Unstressed
	Purity 98%		+/- 5.3409 µg/mL	Stressed
2	2,6-Dichlorophenol	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 87-65-0.SEC (Lot SIDBB)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
3	3,5-Dichlorobenzoic acid	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 51-36-5.SEC (Lot 00823)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
4	4-Nitrophenol	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 100-02-7.SEC (Lot 2J5LB)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
5	Acifluorfen (blazer)	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 50594-66-6.SEC (Lot 30619)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	Bentazon	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 25057-89-0.SEC (Lot 90723)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
7	Chloramben	199.9 µg/mL	+/- 1.4176 µg/mL	Gravimetric
	CAS # 133-90-4.SEC (Lot PSJUA)		+/- 10.6640 µg/mL	Unstressed
	Purity 98%		+/- 10.6818 µg/mL	Stressed

8	DCPA diacid (tetrachloroterephthalic acid)		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 2136-79-0.SEC	(Lot 3931400)			+/-	10.7216	µg/mL	Unstressed
	Purity ----%				+/-	10.7395	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Brandon Reish - Mix Technician

Date Mixed: 04-Jan-2017 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbICV1_00005

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CERTIFIED REFERENCE MATERIAL

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

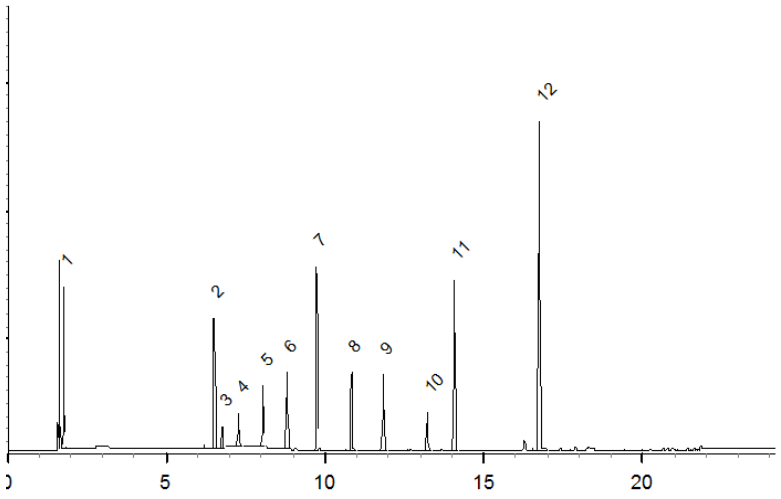
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbICV1_00006

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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

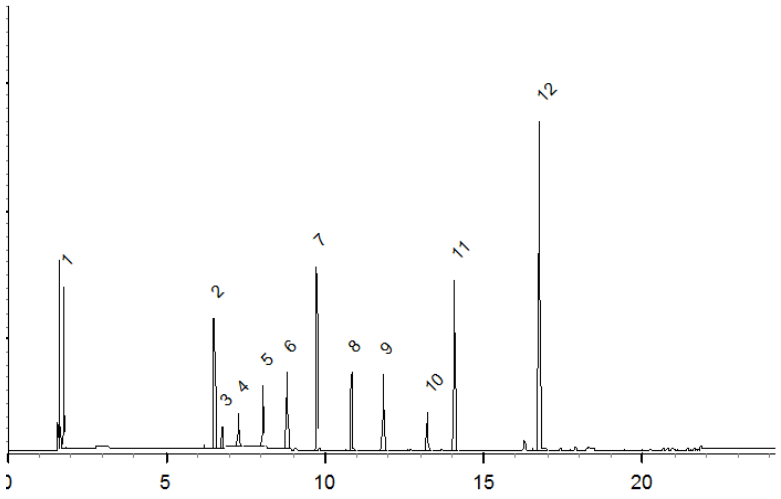
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbICV1_00007

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

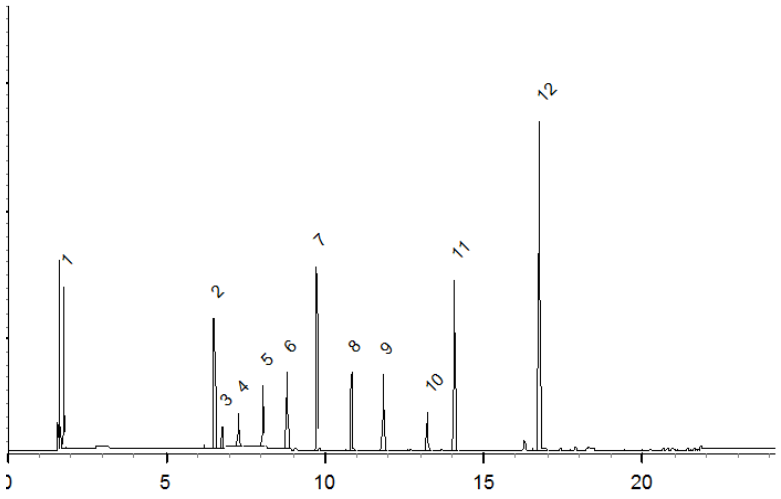
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
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	Purity 99%				+/-	10.7395	µg/mL	Stressed
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	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

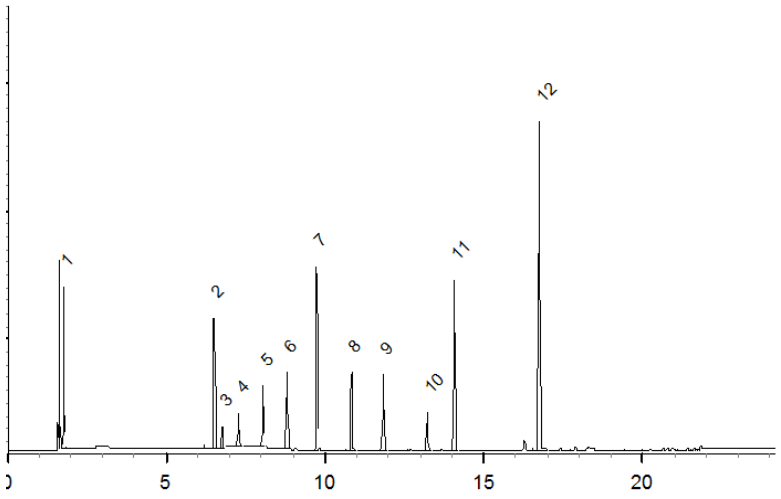
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00006

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Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.3 µg/mL		+/- 1.4203 µg/mL		Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/- 10.6847 µg/mL		Unstressed
	Purity 95%				+/- 10.7025 µg/mL		Stressed
2	Dicamba		100.2 µg/mL		+/- 0.7105 µg/mL		Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/- 5.3451 µg/mL		Unstressed
	Purity 98%				+/- 5.3540 µg/mL		Stressed
3	MCPP (Mecoprop)		20,035.0 µg/mL		+/- 117.3093 µg/mL		Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/- 1,065.6864 µg/mL		Unstressed
	Purity 99%				+/- 1,067.4715 µg/mL		Stressed
4	MCPA		20,020.8 µg/mL		+/- 117.2262 µg/mL		Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/- 1,064.9311 µg/mL		Unstressed
	Purity 96%				+/- 1,066.7149 µg/mL		Stressed
5	Dichlorprop		200.0 µg/mL		+/- 1.4182 µg/mL		Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/- 10.6683 µg/mL		Unstressed
	Purity 99%				+/- 10.6860 µg/mL		Stressed
6	2,4-D		201.0 µg/mL		+/- 1.4253 µg/mL		Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/- 10.7216 µg/mL		Unstressed
	Purity 99%				+/- 10.7395 µg/mL		Stressed
7	Pentachlorophenol		50.5 µg/mL		+/- 0.3581 µg/mL		Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/- 2.6937 µg/mL		Unstressed
	Purity 99%				+/- 2.6982 µg/mL		Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

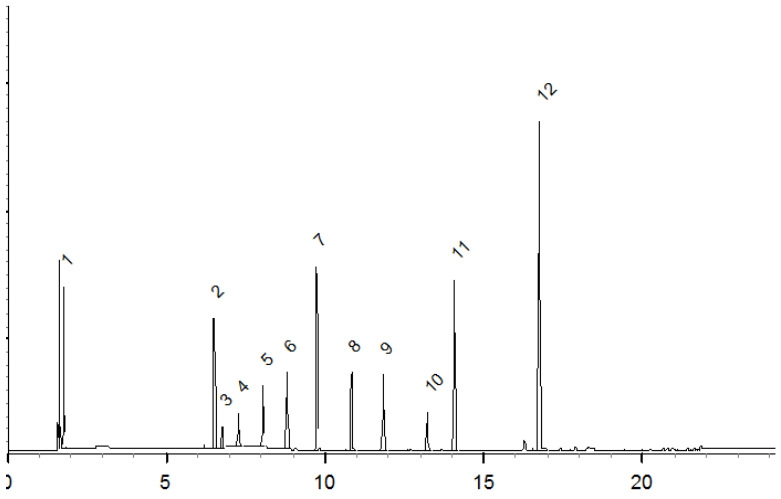
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00007

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Dalapon		200.3	µg/mL	+/-	1.4203	µg/mL	Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/-	10.6847	µg/mL	Unstressed
	Purity 95%				+/-	10.7025	µg/mL	Stressed
2	Dicamba		100.2	µg/mL	+/-	0.7105	µg/mL	Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/-	5.3451	µg/mL	Unstressed
	Purity 98%				+/-	5.3540	µg/mL	Stressed
3	MCPP (Mecoprop)		20,035.0	µg/mL	+/-	117.3093	µg/mL	Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/-	1,065.6864	µg/mL	Unstressed
	Purity 99%				+/-	1,067.4715	µg/mL	Stressed
4	MCPA		20,020.8	µg/mL	+/-	117.2262	µg/mL	Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/-	1,064.9311	µg/mL	Unstressed
	Purity 96%				+/-	1,066.7149	µg/mL	Stressed
5	Dichlorprop		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
6	2,4-D		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
7	Pentachlorophenol		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

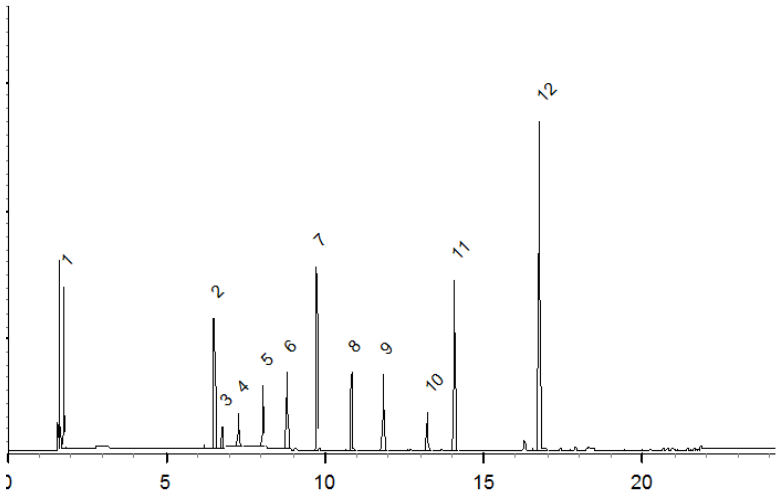
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

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Manufacturing Notes:

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Handling Notes:

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Reagent

SGHerbList1_00008

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Dalapon		200.3	µg/mL	+/-	1.4203	µg/mL	Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/-	10.6847	µg/mL	Unstressed
	Purity 95%				+/-	10.7025	µg/mL	Stressed
2	Dicamba		100.2	µg/mL	+/-	0.7105	µg/mL	Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/-	5.3451	µg/mL	Unstressed
	Purity 98%				+/-	5.3540	µg/mL	Stressed
3	MCPP (Mecoprop)		20,035.0	µg/mL	+/-	117.3093	µg/mL	Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/-	1,065.6864	µg/mL	Unstressed
	Purity 99%				+/-	1,067.4715	µg/mL	Stressed
4	MCPA		20,020.8	µg/mL	+/-	117.2262	µg/mL	Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/-	1,064.9311	µg/mL	Unstressed
	Purity 96%				+/-	1,066.7149	µg/mL	Stressed
5	Dichlorprop		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
6	2,4-D		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
7	Pentachlorophenol		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
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10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

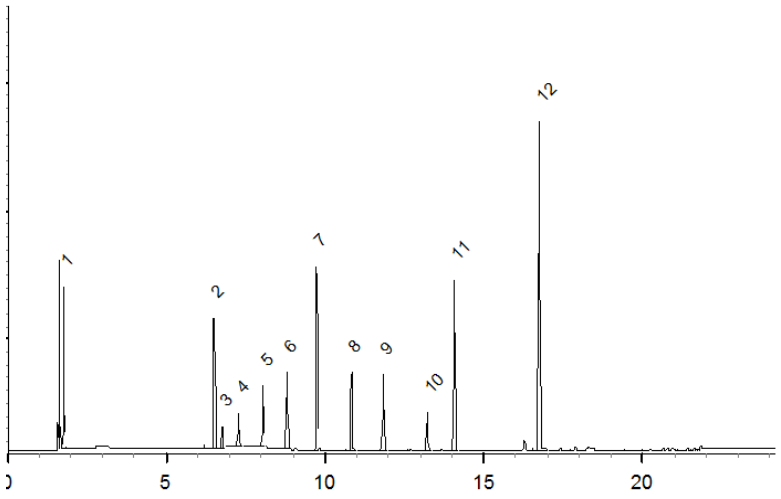
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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- Purity values are rounded to the nearest whole number.

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Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00011

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.3 µg/mL		+/- 1.4203 µg/mL		Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/- 10.6847 µg/mL		Unstressed
	Purity 95%				+/- 10.7025 µg/mL		Stressed
2	Dicamba		100.2 µg/mL		+/- 0.7105 µg/mL		Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/- 5.3451 µg/mL		Unstressed
	Purity 98%				+/- 5.3540 µg/mL		Stressed
3	MCPP (Mecoprop)		20,035.0 µg/mL		+/- 117.3093 µg/mL		Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/- 1,065.6864 µg/mL		Unstressed
	Purity 99%				+/- 1,067.4715 µg/mL		Stressed
4	MCPA		20,020.8 µg/mL		+/- 117.2262 µg/mL		Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/- 1,064.9311 µg/mL		Unstressed
	Purity 96%				+/- 1,066.7149 µg/mL		Stressed
5	Dichlorprop		200.0 µg/mL		+/- 1.4182 µg/mL		Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/- 10.6683 µg/mL		Unstressed
	Purity 99%				+/- 10.6860 µg/mL		Stressed
6	2,4-D		201.0 µg/mL		+/- 1.4253 µg/mL		Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/- 10.7216 µg/mL		Unstressed
	Purity 99%				+/- 10.7395 µg/mL		Stressed
7	Pentachlorophenol		50.5 µg/mL		+/- 0.3581 µg/mL		Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/- 2.6937 µg/mL		Unstressed
	Purity 99%				+/- 2.6982 µg/mL		Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

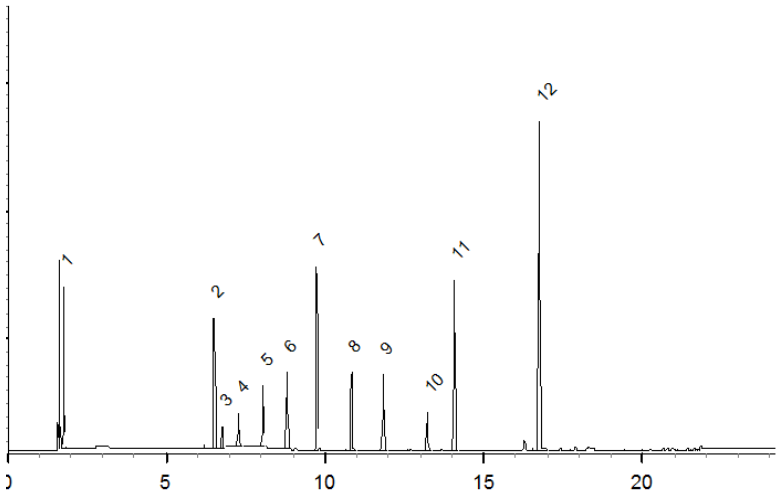
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570473 **Lot No.:** A0123630

Description : Custom Herbicide Additions Standard

Custom Herbicide Additions Standard 100-200 µg/mL, Acetonitrile, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,6-Trichlorophenol	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 88-06-2 (Lot MKBL4698V)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
2	2,6-Dichlorophenol	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 87-65-0 (Lot MKBP8620V)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
3	3,5-Dichlorobenzoic acid	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 51-36-5 (Lot 08004EH)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
4	4-Nitrophenol	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKBV0501V)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
5	Acifluorfen (blazer)	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 50594-66-6 (Lot 83-46A)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	Bentazon	199.9 µg/mL	+/- 1.4176 µg/mL	Gravimetric
	CAS # 25057-89-0 (Lot 2735000)		+/- 10.6640 µg/mL	Unstressed
	Purity 98%		+/- 10.6818 µg/mL	Stressed
7	Chloramben	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 133-90-4 (Lot 83-49A)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed

8	DCPA diacid (tetrachloroterephthalic acid)		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 2136-79-0	(Lot DWL0462)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%



Date Mixed: 20-Dec-2016 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Method 8151 DOD

Herbicides (GC) by Method 8151A DOD

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-35MS ID: 0.32(mm)

Client Sample ID	Lab Sample ID	DCPAA1 #
GQ001	680-151865-1	23 M Q
GQ002	680-151865-2	15 M Q
GQ003	680-151865-3	31
	MB 680-522658/4-A	69
	LCS 680-522658/5-A	77
GQ003 MS	680-151865-3 MS	45 M
GQ003 MSD	680-151865-3 MSD	35

	QC LIMITS
DCPAA = 2,4-Dichlorophenylacetic acid (Surr)	27-122

Column to be used to flag recovery values

FORM II 8151A DOD

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: SE090035.D

Lab ID: LCS 680-522658/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2,4,5-T	16.2	9.28	57	31-138	
2,4-D	64.8	46.3	72	28-144	

Column to be used to flag recovery and RPD values

FORM III 8151A DOD

FORM III
HERBICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: SE090039.D

Lab ID: 680-151865-3 MS Client ID: GQ003 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
2,4,5-T	16.8	49	9.26	-236	31-138	M J1

Column to be used to flag recovery and RPD values

FORM III 8151A DOD

FORM III
HERBICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: SE110036.D

Lab ID: 680-151865-3 MS Client ID: GQ003 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
2,4-D	67.3	380	31.5 J	-514	28-144	D 4

Column to be used to flag recovery and RPD values

FORM III 8151A DOD

FORM III
HERBICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: SE090040.D

Lab ID: 680-151865-3 MSD Client ID: GQ003 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4,5-T	16.8	25.6	-139	94	30	31-138	J1

Column to be used to flag recovery and RPD values

FORM III 8151A DOD

FORM III
HERBICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: SE110037.D

Lab ID: 680-151865-3 MSD Client ID: GQ003 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-D	67.3	139	-354	126	30	28-144	D 4 J1

Column to be used to flag recovery and RPD values

FORM III 8151A DOD

FORM IV
HERBICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: MB 680-522658/4-A

Matrix: Solid Date Extracted: 05/04/2018 14:00

Lab File ID:(1) SE090034.D Lab File ID:(2) SE090034.D

Date Analyzed:(1) 05/10/2018 03:48 Date Analyzed:(2) 05/10/2018 03:48

Instrument ID:(1) CSGS Instrument ID:(2) CSGS

GC Column:(1) DB-35MS ID: 0.32(mm) GC Column:(2) DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-522658/5-A	05/10/2018 04:08	05/10/2018 04:08
GQ001	680-151865-1	05/10/2018 04:28	05/10/2018 04:28
GQ002	680-151865-2	05/10/2018 04:47	05/10/2018 04:47
GQ003	680-151865-3	05/10/2018 05:07	05/10/2018 05:07
GQ003 MS	680-151865-3 MS	05/10/2018 05:26	05/10/2018 05:26
GQ003 MSD	680-151865-3 MSD	05/10/2018 05:46	05/10/2018 05:46
GQ003	680-151865-3	05/11/2018 21:55	05/11/2018 21:55
GQ003 MS	680-151865-3 MS	05/11/2018 22:14	05/11/2018 22:14
GQ003 MSD	680-151865-3 MSD	05/11/2018 22:34	05/11/2018 22:34

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ001 Lab Sample ID: 680-151865-1

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/10/2018 04:28 Date Analyzed (2): 05/10/2018 04:28

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.44	7.43	7.45	10		30.3
	2		7.24	7.24	7.26	14		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 Lab Sample ID: 680-151865-3

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/10/2018 05:07 Date Analyzed (2): 05/10/2018 05:07

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.44	7.43	7.45	500		2.4
	2		7.24	7.24	7.26	490		
2,4,5-T	1		8.01	8.00	8.02	49		2.0
	2		7.85	7.84	7.86	48		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 Lab Sample ID: 680-151865-3

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/11/2018 21:55 Date Analyzed (2): 05/11/2018 21:55

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.41	7.40	7.42	380		2.0
	2		7.21	7.20	7.22	380		
2,4,5-T	1		7.98	7.97	7.99	38		7.4
	2		7.82	7.81	7.83	41		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MS Lab Sample ID: 680-151865-3 MS

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/10/2018 05:26 Date Analyzed (2): 05/10/2018 05:26

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.44	7.43	7.45	38.0		28.6
	2		7.24	7.24	7.26	50.7		
2,4,5-T	1		8.01	8.00	8.02	9.26		7.6
	2		7.85	7.84	7.86	8.58		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MS Lab Sample ID: 680-151865-3 MS

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/11/2018 22:14 Date Analyzed (2): 05/11/2018 22:14

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.41	7.40	7.42	31.5		7.8
	2		7.21	7.20	7.22	34.0		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MSD Lab Sample ID: 680-151865-3 MSD

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/10/2018 05:46 Date Analyzed (2): 05/10/2018 05:46

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.44	7.43	7.45	162		0.8
	2		7.24	7.24	7.26	161		
2,4,5-T	1		8.01	8.00	8.02	25.6		7.0
	2		7.85	7.84	7.86	27.5		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MSD Lab Sample ID: 680-151865-3 MSD

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/11/2018 22:34 Date Analyzed (2): 05/11/2018 22:34

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.41	7.40	7.42	139		8.0
	2		7.21	7.20	7.22	151		
2,4,5-T	1		7.97	7.97	7.99	21.9		26.3
	2		7.82	7.81	7.83	28.5		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 680-522658/5-A

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/10/2018 04:08 Date Analyzed (2): 05/10/2018 04:08

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.44	7.43	7.45	46.3		2.6
	2		7.24	7.24	7.26	47.6		
2,4,5-T	1		8.01	8.00	8.02	9.28		20.5
	2		7.85	7.84	7.86	11.4		

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ001 | Lab Sample ID: 680-151865-1

Matrix: Solid | Lab File ID: SE090036.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:20

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.03(g) | Date Analyzed: 05/10/2018 04:28

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.4	U	8.4	4.4	2.3
94-75-7	2,4-D	10	M	8.4	8.4	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	23	M Q	27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090036.D				
Lims ID:	680-151865-A-1-A				
Client ID:	GQ001				
Sample Type:	Client				
Inject. Date:	10-May-2018 04:28:02	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-036				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 10-May-2018 11:20:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6	2,4-Dichlorophenylacetic acid					M
1	6.604	6.604	0.000	10000940	0.0507	M
2	6.751	6.752	-0.001	58266550	0.0468	M
					RPD = 7.85	
11	2,4-D					M
1	7.244	7.246	-0.002	12951290	0.0410	M
2	7.441	7.443	-0.002	44126076	0.0302	M
					RPD = 30.33	

QC Flag Legend

Review Flags

M - Manually Integrated

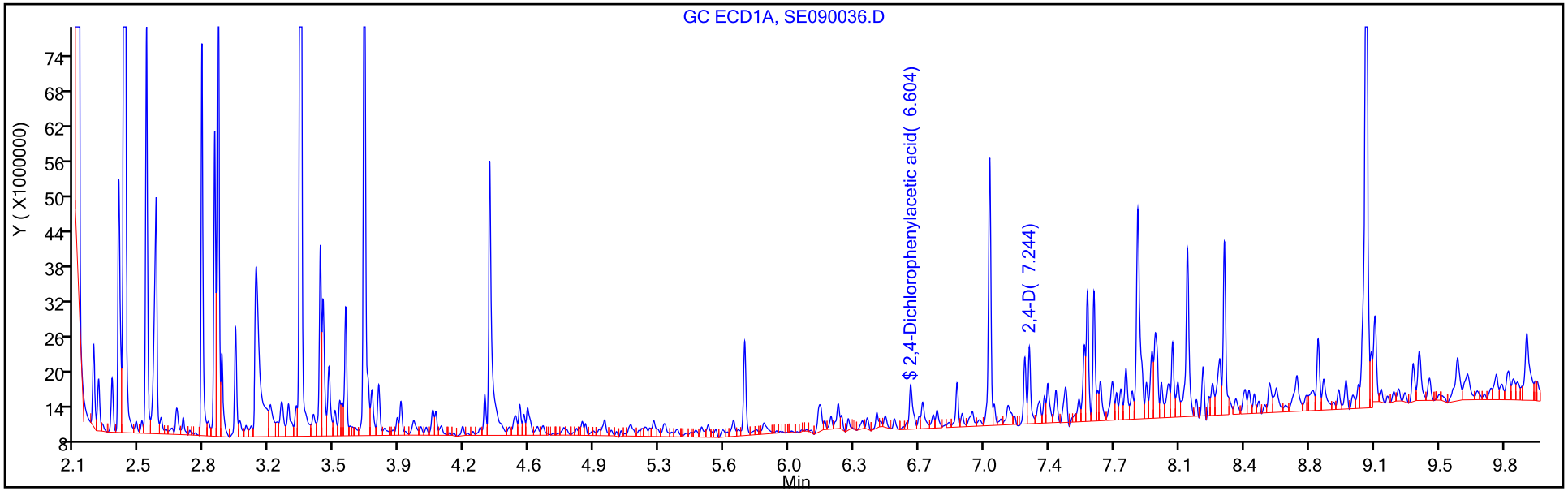
Report Date: 10-May-2018 11:24:53 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

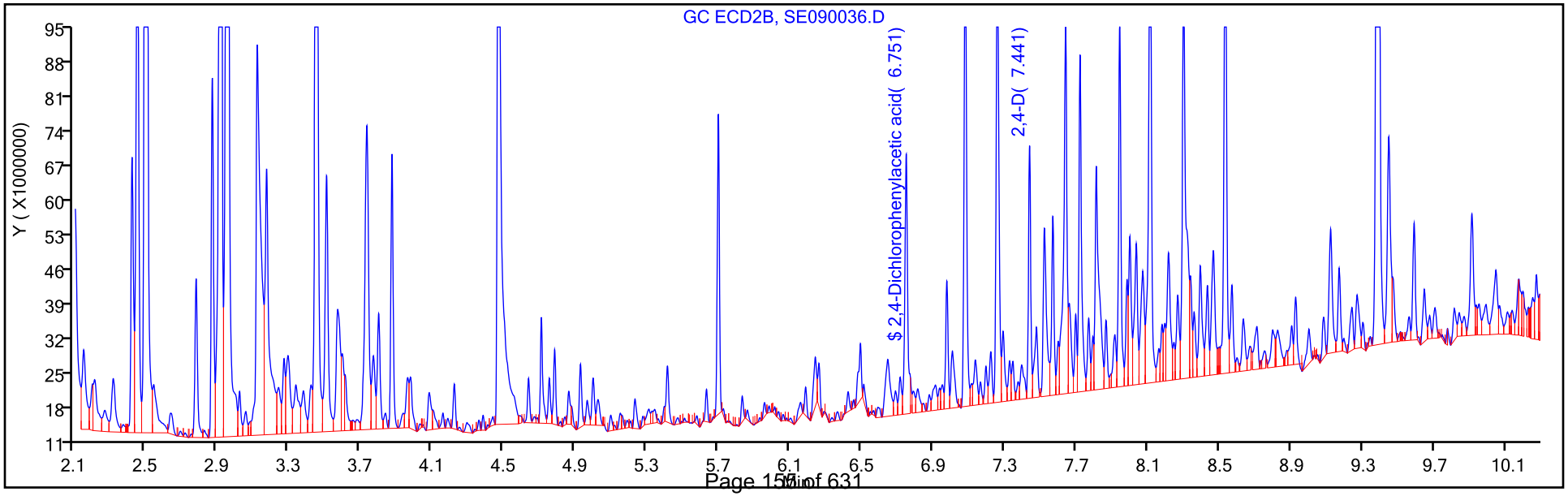
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Injection Date:	10-May-2018 04:28:02	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-1-A	Lab Sample ID:	680-151865-1	Worklist Smp#:	36
Client ID:	GQ001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090036.D				
Lims ID:	680-151865-A-1-A				
Client ID:	GQ001				
Sample Type:	Client				
Inject. Date:	10-May-2018 04:28:02	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-036				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:20:02		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0507	25.33

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0468	23.41

Manual Integration/User Assign Peak Report

TestAmerica Savannah

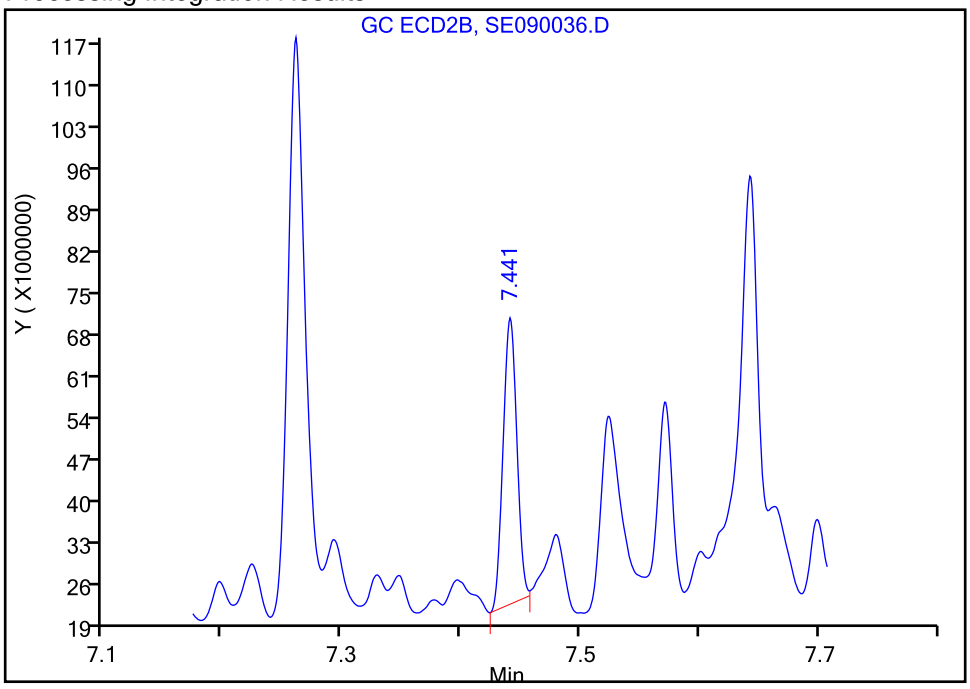
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090036.D				
Injection Date:	10-May-2018 04:28:02	Instrument ID:	CSGS		
Lims ID:	680-151865-A-1-A	Lab Sample ID:	680-151865-1		
Client ID:	GQ001				
Operator ID:	GEM	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

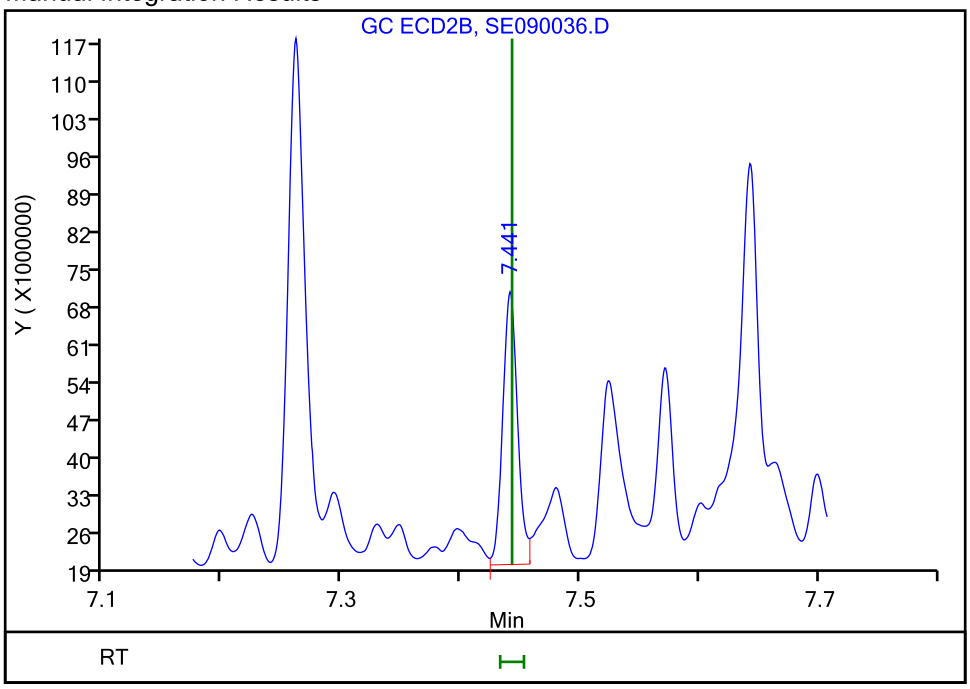
Processing Integration Results

RT: 7.44
Area: 38939352
Amount: 0.026674
Amount Units: ug/ml



Manual Integration Results

RT: 7.44
Area: 44126076
Amount: 0.030227
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 11:19:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

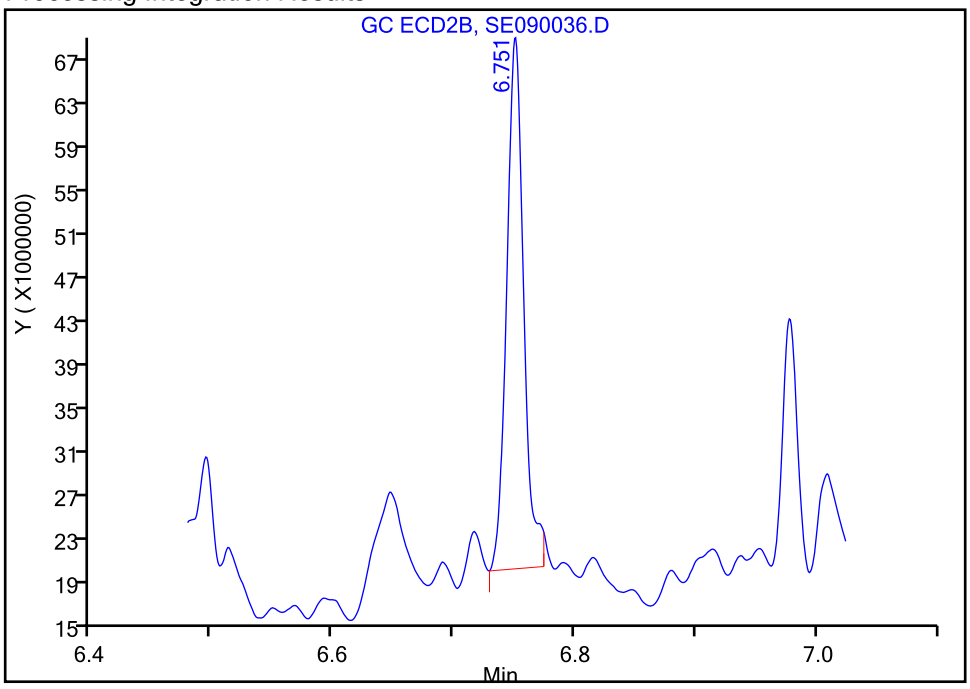
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090036.D				
Injection Date:	10-May-2018 04:28:02	Instrument ID:	CSGS		
Lims ID:	680-151865-A-1-A	Lab Sample ID:	680-151865-1		
Client ID:	GQ001				
Operator ID:	GEM	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

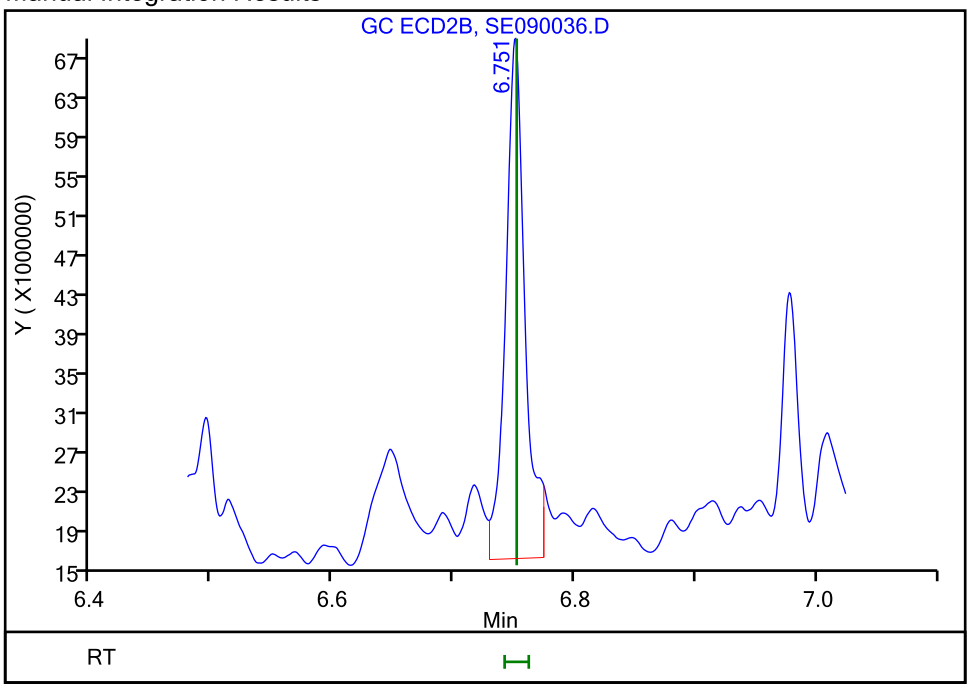
Processing Integration Results

RT: 6.75
Area: 47391352
Amount: 0.038088
Amount Units: ug/ml



Manual Integration Results

RT: 6.75
Area: 58266550
Amount: 0.046829
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 11:19:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ002 | Lab Sample ID: 680-151865-2

Matrix: Solid | Lab File ID: SE090037.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:25

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.05(g) | Date Analyzed: 05/10/2018 04:47

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.3	U M	8.4	4.3	2.3
94-75-7	2,4-D	8.4	U M	8.4	8.4	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	15	M Q	27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090037.D				
Lims ID:	680-151865-A-2-A				
Client ID:	GQ002				
Sample Type:	Client				
Inject. Date:	10-May-2018 04:47:38	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-037				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 10-May-2018 11:20:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6	2,4-Dichlorophenylacetic acid					M
1	6.606	6.604	0.002	7587994	0.0384	M
2	6.751	6.752	-0.001	37442900	0.0301	M
					RPD = 24.34	
11	2,4-D					M
1	7.244	7.246	-0.002	5532460	0.0175	M
2	7.441	7.443	-0.002	13411997	0.009187	M
					RPD = 62.45	

QC Flag Legend

Review Flags

M - Manually Integrated

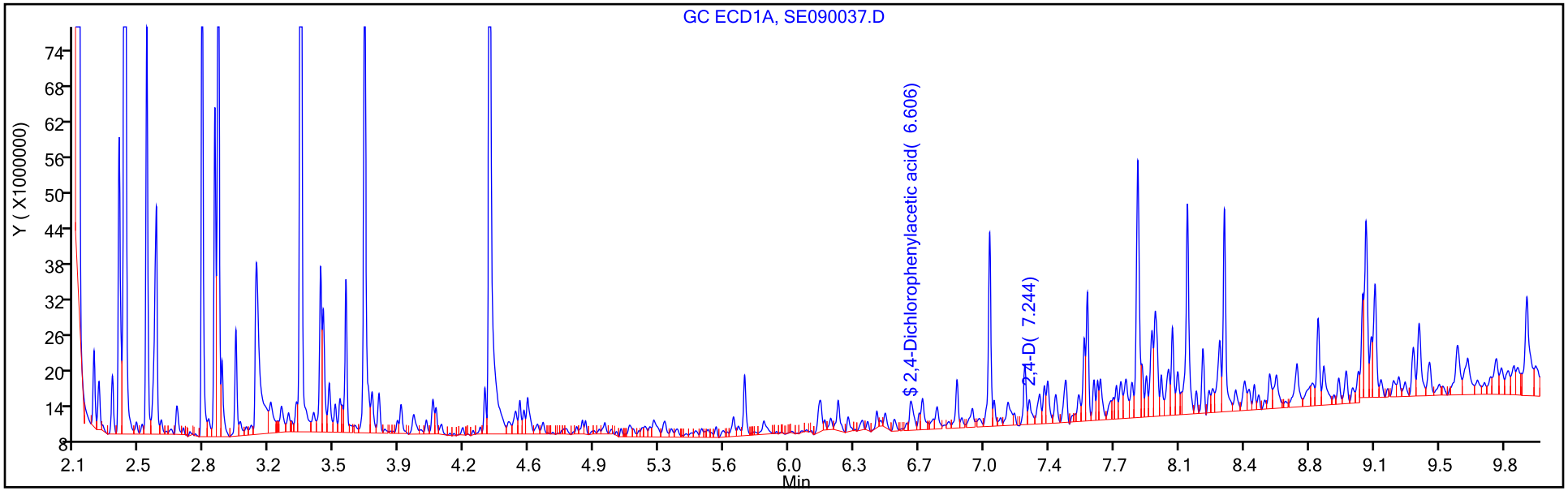
Report Date: 10-May-2018 11:24:51 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

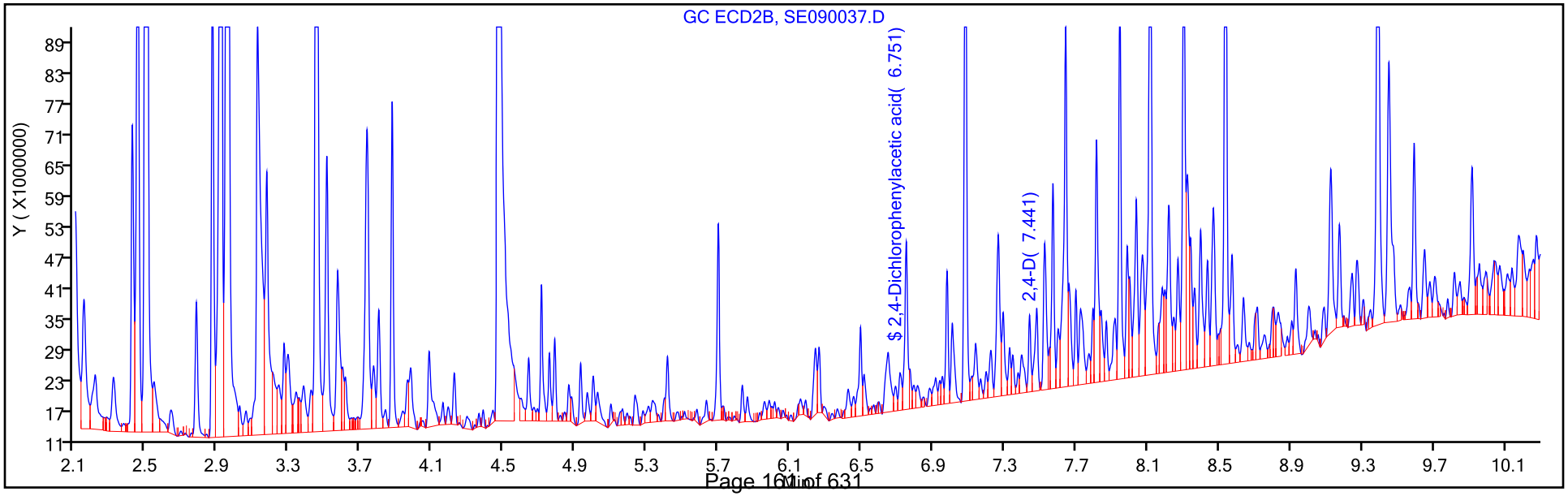
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090037.D

Injection Date:	10-May-2018 04:47:38	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-2-A	Lab Sample ID:	680-151865-2	Worklist Smp#:	37
Client ID:	GQ002				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090037.D				
Lims ID:	680-151865-A-2-A				
Client ID:	GQ002				
Sample Type:	Client				
Inject. Date:	10-May-2018 04:47:38	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-037				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:20:21		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0384	19.22

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0301	15.05

User Disabled Compound Report

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090037.D

Injection Date: 10-May-2018 04:47:38 Instrument ID: CSGS

Lims ID: 680-151865-A-2-A Lab Sample ID: 680-151865-2

Client ID: GQ002

Operator ID: GEM ALS Bottle#: 37 Worklist Smp#: 37

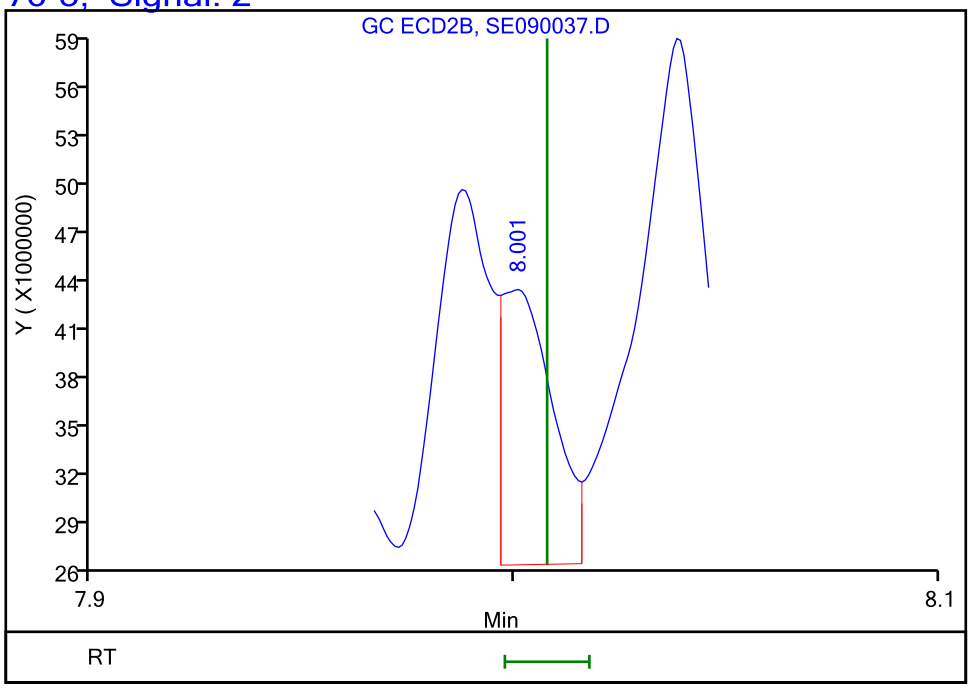
Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

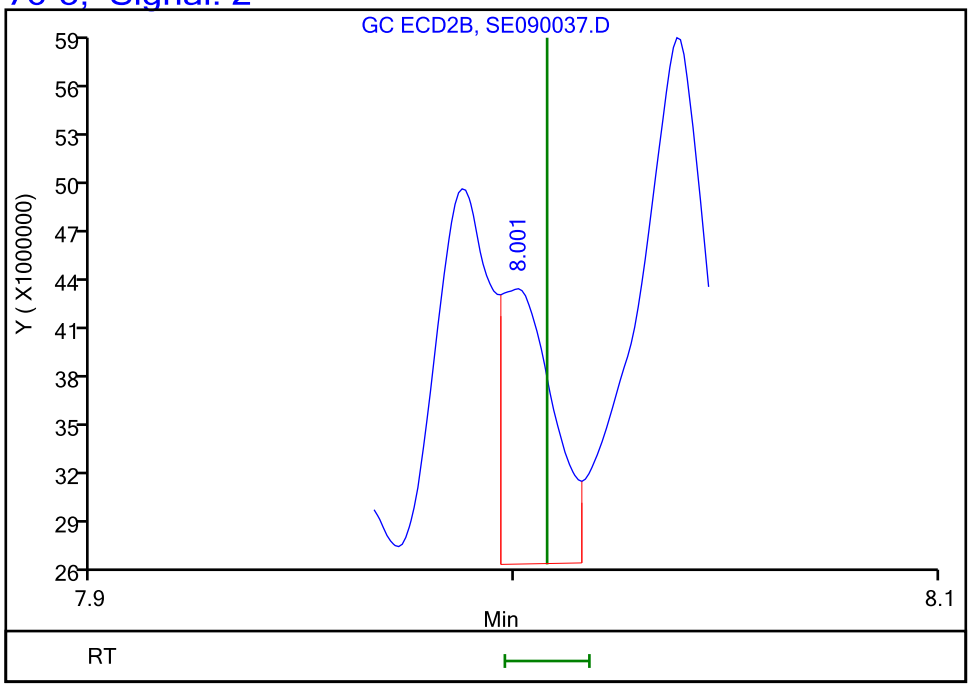
RT: 8.00
Response: 13584827
Amount: 0.002180



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 8.00
Response: 13584827
Amount: 0.002180



Reviewer: kellarj, 10-May-2018 11:20:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Savannah

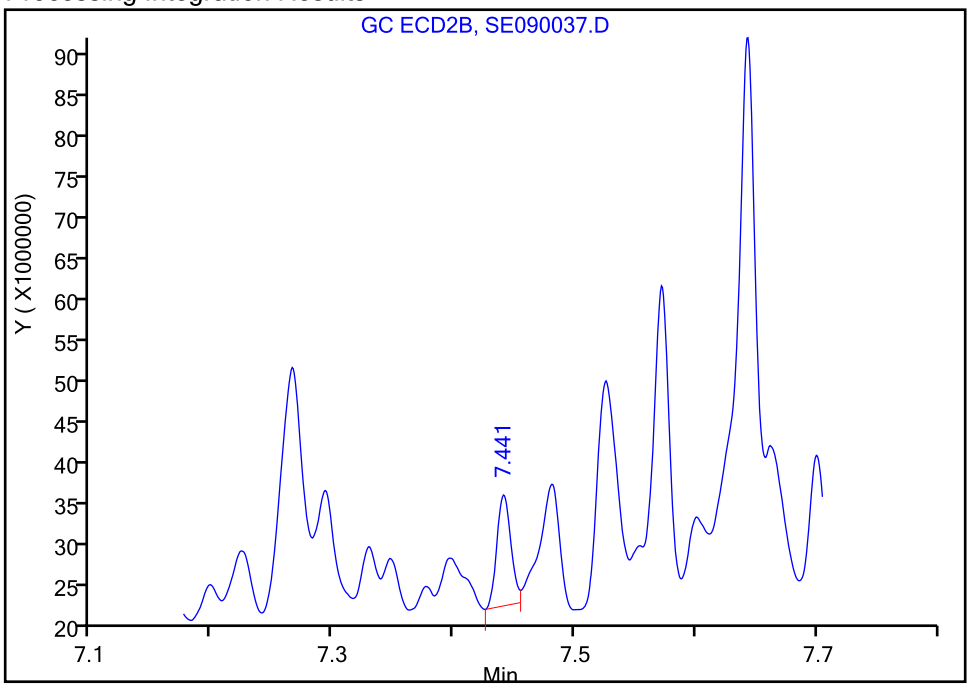
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090037.D				
Injection Date:	10-May-2018 04:47:38	Instrument ID:	CSGS		
Lims ID:	680-151865-A-2-A	Lab Sample ID:	680-151865-2		
Client ID:	GQ002				
Operator ID:	GEM	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

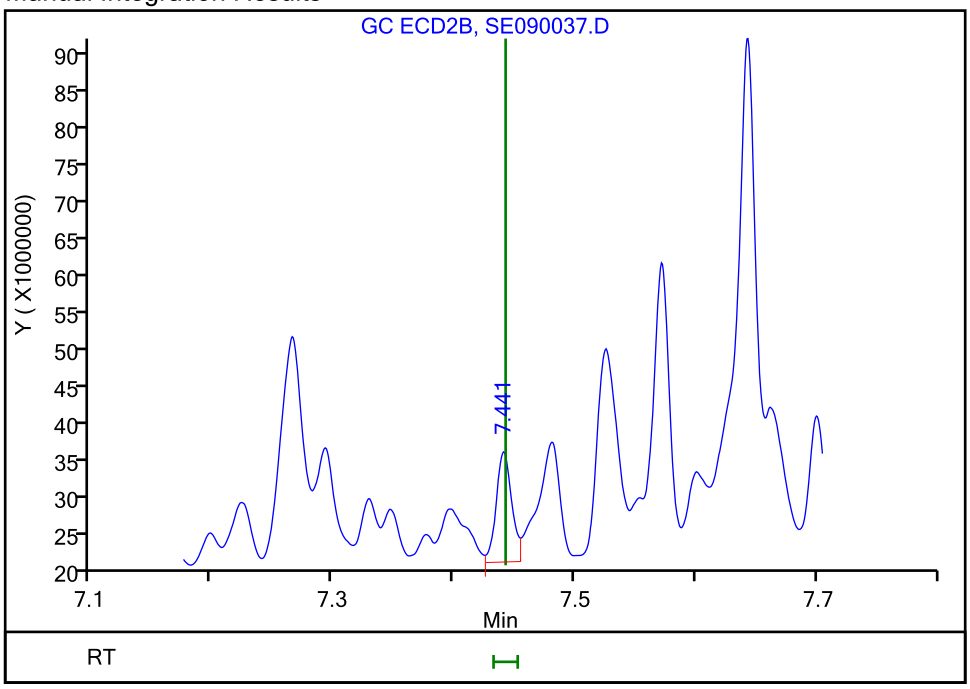
Processing Integration Results

RT: 7.44
Area: 11088154
Amount: 0.007596
Amount Units: ug/ml



Manual Integration Results

RT: 7.44
Area: 13411997
Amount: 0.009187
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 11:20:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

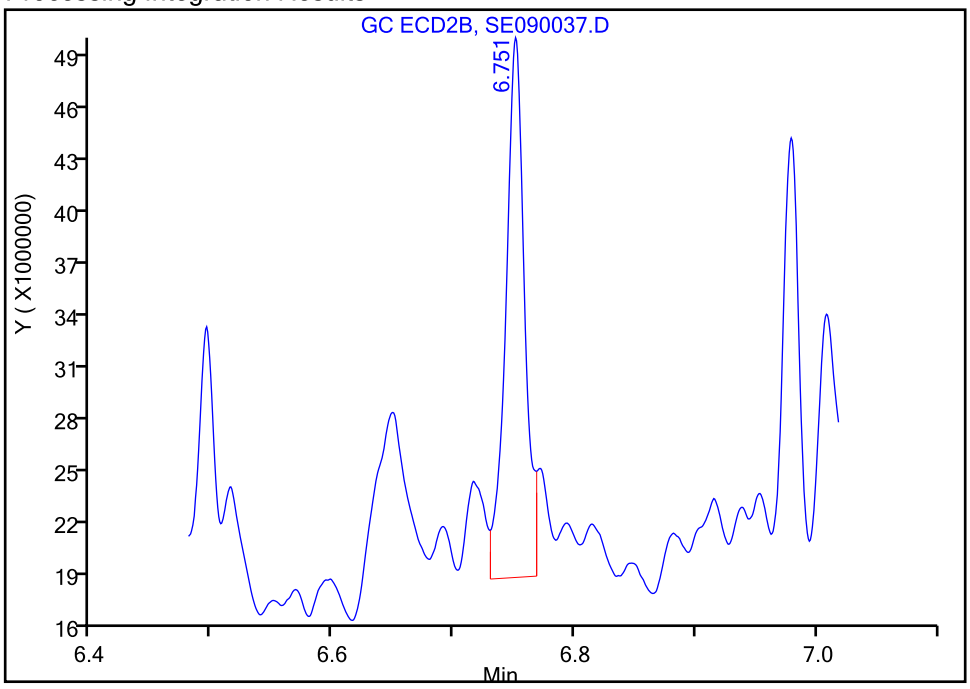
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090037.D				
Injection Date:	10-May-2018 04:47:38	Instrument ID:	CSGS		
Lims ID:	680-151865-A-2-A	Lab Sample ID:	680-151865-2		
Client ID:	GQ002				
Operator ID:	GEM	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

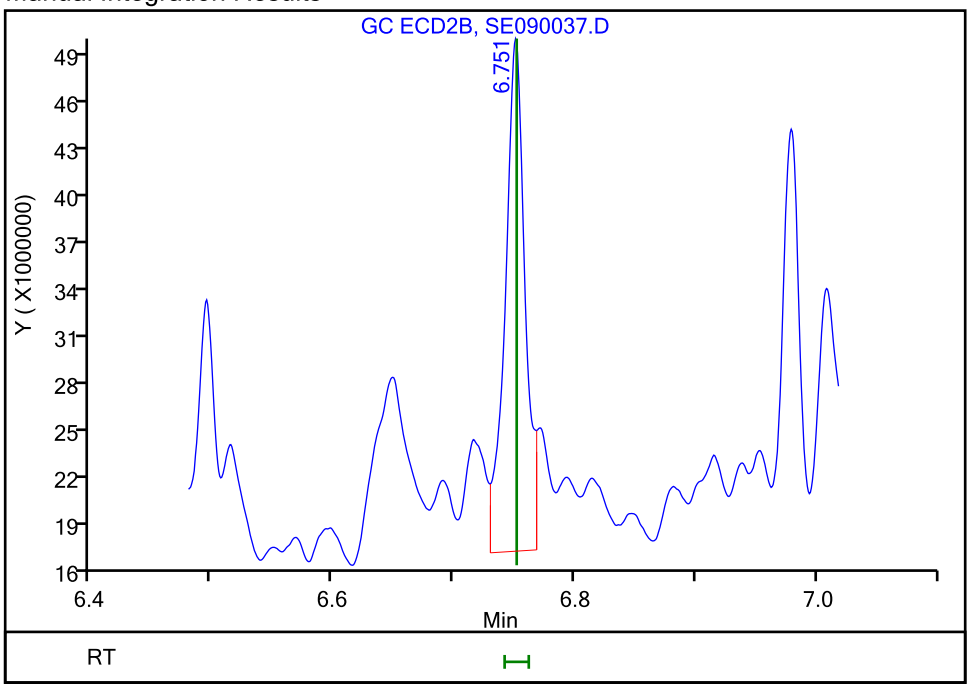
Processing Integration Results

RT: 6.75
Area: 33804243
Amount: 0.027168
Amount Units: ug/ml



Manual Integration Results

RT: 6.75
Area: 37442900
Amount: 0.030093
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 11:20:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 | Lab Sample ID: 680-151865-3

Matrix: Solid | Lab File ID: SE090038.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:30

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.05(g) | Date Analyzed: 05/10/2018 05:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	49	J1	8.4	4.3	2.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	31		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090038.D				
Lims ID:	680-151865-A-3-A				
Client ID:	GQ003				
Sample Type:	Client				
Inject. Date:	10-May-2018 05:07:11	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-038				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 10-May-2018 11:20:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.604	6.604	0.000	9340254	0.0473	
2	6.751	6.752	-0.001	77615678	0.0624	
					RPD = 27.48	
11 2,4-D						
1	7.244	7.246	-0.002	461213783	1.46	E
2	7.444	7.443	0.001	2185650126	1.50	E
					RPD = 2.43	
15 2,4,5-T						
1	7.846	7.848	-0.002	265666148	0.1425	
2	8.007	8.008	-0.001	906122650	0.1454	
					RPD = 2.03	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

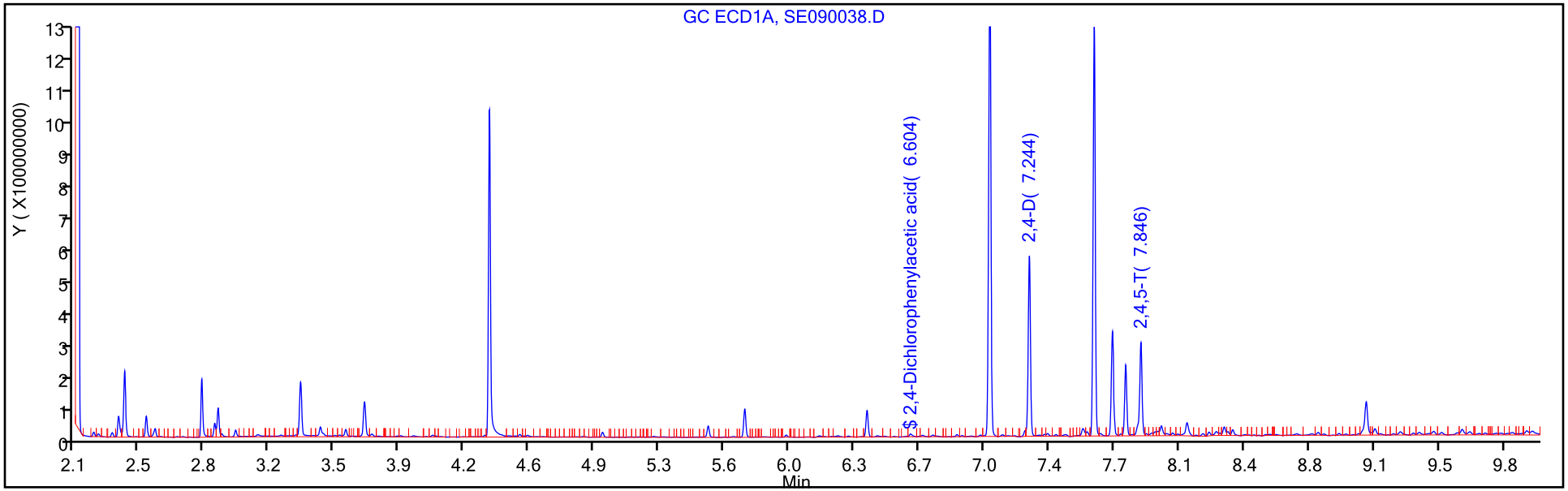
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TestAmerica Savannah

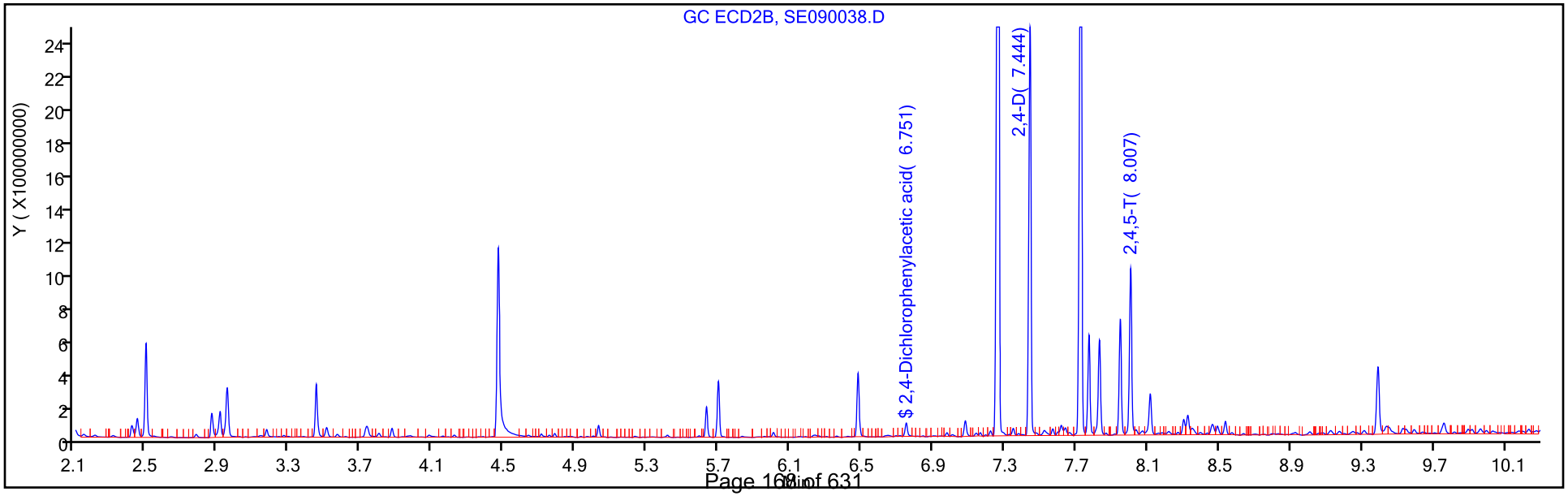
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090038.D

Injection Date:	10-May-2018 05:07:11	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-3-A	Lab Sample ID:	680-151865-3	Worklist Smp#:	38
Client ID:	GQ003				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090038.D				
Lims ID:	680-151865-A-3-A				
Client ID:	GQ003				
Sample Type:	Client				
Inject. Date:	10-May-2018 05:07:11	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-038				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:20:35		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0473	23.65

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0624	31.19

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 | Lab Sample ID: 680-151865-3

Matrix: Solid | Lab File ID: SE110035.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:30

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.05(g) | Date Analyzed: 05/11/2018 21:55

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523572 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	380	D J1	42	42	25

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110035.D
Lims ID: 680-151865-A-3-A
Client ID: GQ003
Sample Type: Client
Inject. Date: 11-May-2018 21:55:10 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 680-0047291-035
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 14-May-2018 09:49:29 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: halll Date: 14-May-2018 14:50:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.571	6.572	-0.001	1678847	0.009765	
2	6.719	6.720	-0.001	13998467	0.0123	
					RPD = 22.61	
10 Dichlorprop						
1	7.069	7.069	0.000	1512878	0.006574	
2	7.191	7.191	0.000	5012800	0.004373	
					RPD = 40.22	
11 2,4-D						
1	7.212	7.214	-0.002	62460690	0.2287	
2	7.411	7.412	-0.001	282169999	0.2241	
					RPD = 2.00	
12 Pentachlorophenol						
1	7.563	7.562	0.001	130644508	0.0299	
2	7.608	7.605	0.003	9088473	0.000580	
					RPD = 192.39	
13 Silvex (2,4,5-TP)						
1	7.661	7.661	0.000	38699235	0.0242	
2	7.743	7.744	-0.001	74225429	0.0123	
					RPD = 65.44	
15 2,4,5-T						
1	7.815	7.816	-0.001	37602081	0.0242	
2	7.975	7.976	-0.001	115548319	0.0225	
					RPD = 7.37	

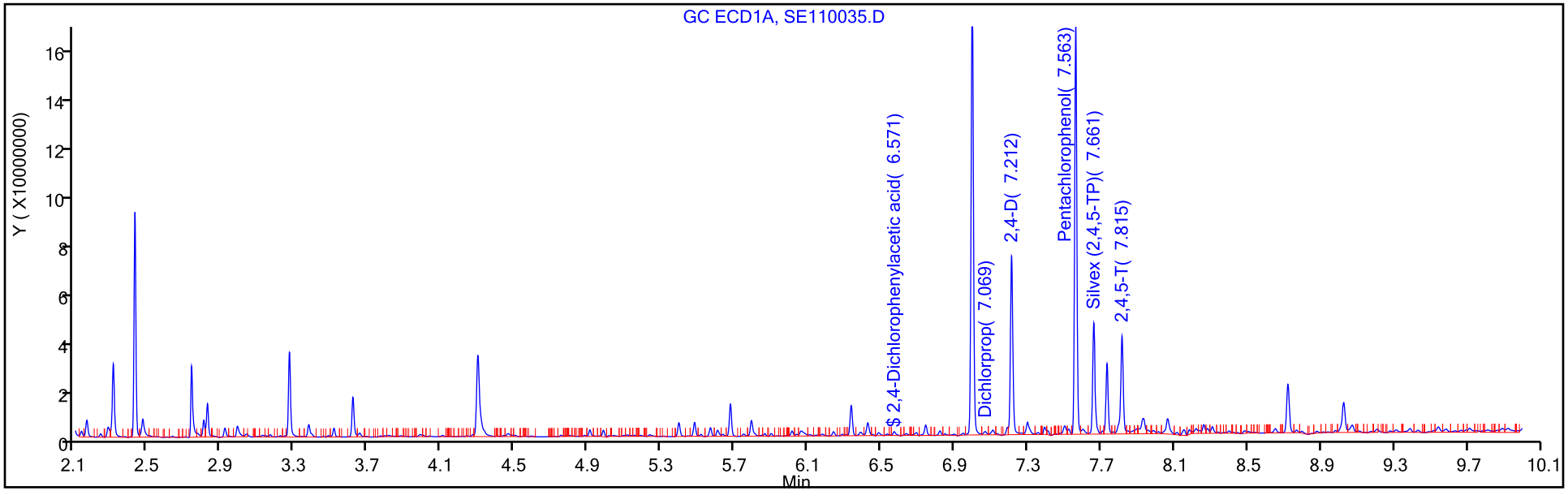
Report Date: 14-May-2018 14:50:49 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

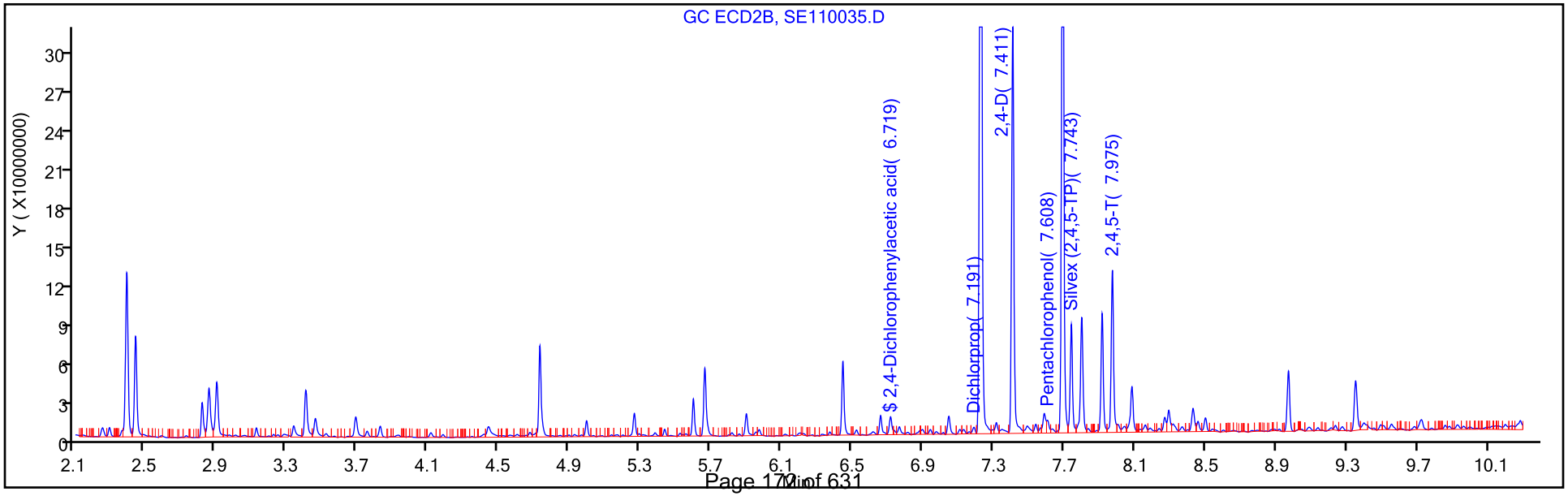
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110035.D

Injection Date:	11-May-2018 21:55:10	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-3-A	Lab Sample ID:	680-151865-3	Worklist Smp#:	35
Client ID:	GQ003				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	35
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110035.D				
Lims ID:	680-151865-A-3-A				
Client ID:	GQ003				
Sample Type:	Client				
Inject. Date:	11-May-2018 21:55:10	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	680-0047291-035				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	14-May-2018 09:49:29	Calib Date:	11-May-2018 14:04:11		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK029				
First Level Reviewer: halll		Date:	14-May-2018 14:50:47		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.009765	24.41

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0123	30.64

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57184

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523317/11	SE090011.D
Level 2	IC 680-523317/10	SE090010.D
Level 3	IC 680-523317/9	SE090009.D
Level 4	IC 680-523317/8	SE090008.D
Level 5	IC 680-523317/7	SE090007.D
Level 6	IC 680-523317/6	SE090006.D
Level 7	IC 680-523317/5	SE090005.D
Level 8	IC 680-523317/4	SE090004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	2.489	2.490	2.491	2.491	2.491	2.491	2.492	2.492			2.471 - 2.511	2.491
3,5-Dichlorobenzoic acid	6.048	6.047	6.047	6.047	6.047	6.047	6.047	6.048			6.037 - 6.057	6.047
4-Nitrophenol	6.177	6.175	6.174	6.173	6.173	6.172	6.172	6.173			6.163 - 6.183	6.174
Dicamba	6.641	6.642	6.641	6.642	6.642	6.642	6.641	6.643			6.632 - 6.652	6.642
MCPP	6.790	6.789	6.788	6.789	6.790	6.790	6.791	6.794			6.779 - 6.799	6.790
MCPA	6.917	6.917	6.916	6.916	6.917	6.917	6.919	6.922			6.906 - 6.926	6.918
Dichlorprop	7.104	7.103	7.102	7.102	7.103	7.101	7.101	7.103			7.092 - 7.112	7.102
2,4-D	7.248	7.247	7.247	7.246	7.246	7.245	7.246	7.246			7.236 - 7.256	7.246
Pentachlorophenol	7.595	7.595	7.595	7.594	7.595	7.595	7.596	7.597			7.584 - 7.604	7.595
Silvex (2,4,5-TP)	7.694	7.692	7.693	7.692	7.693	7.693	7.692	7.693			7.682 - 7.702	7.693
Chloramben	7.772	7.772	7.771	7.770	7.770	7.770	7.771	7.772			7.760 - 7.780	7.771
2,4,5-T	7.849	7.849	7.848	7.848	7.848	7.848	7.847	7.848			7.838 - 7.858	7.848
2,4-DB	8.093	8.092	8.092	8.091	8.091	8.091	8.090	8.090			8.081 - 8.101	8.091
Dinoseb	8.145	8.145	8.145	8.144	8.145	8.144	8.145	8.146			8.134 - 8.154	8.145
Bentazon	8.219	8.219	8.218	8.218	8.218	8.218	8.218	8.218			8.208 - 8.228	8.218
Picloram	8.436	8.436	8.435	8.433	8.434	8.434	8.435	+++++			8.423 - 8.443	8.435
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.539	8.538	8.538	8.537	8.538	8.539	8.539	+++++			8.527 - 8.547	8.538
Acifluorfen	9.579	9.578	9.578	9.577	9.578	9.579	9.578	+++++			9.567 - 9.587	9.578
2,4-Dichlorophenylacetic acid (Surr)	6.605	6.605	6.605	6.604	6.604	6.605	6.605	6.605			6.594 - 6.614	6.605

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57184

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523317/11	SE090011.D
Level 2	IC 680-523317/10	SE090010.D
Level 3	IC 680-523317/9	SE090009.D
Level 4	IC 680-523317/8	SE090008.D
Level 5	IC 680-523317/7	SE090007.D
Level 6	IC 680-523317/6	SE090006.D
Level 7	IC 680-523317/5	SE090005.D
Level 8	IC 680-523317/4	SE090004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	679004100 488923720	586306400 471437860	529724880 481577290	486927140 472686723	Lin2	2140794.62	475679294							0.9990		0.9900
3,5-Dichlorobenzoic acid	294471600 316092469	304813200 306233072	302496800 322932350	306718880 319887544	Ave		309205739				3.1		20.0			
4-Nitrophenol	104073800 103707434	104215600 99148808	100269680 93032826	100636080 91420310	Ave		99563067.3				4.9		20.0			
Dicamba	874466200 1016720891	929331920 1000989912	949702840 1058983740	973337620 1080087350	Ave		985452559				6.9		20.0			
MCPP	517455 670575	698193 631943	701701 631184	679975 658217	Ave		648655.585				9.1		20.0			
MCPA	913431 867697	970146 812133	929117 823274	878491 782204	Lin2	110437.943	846838.620							0.9950		0.9900
Dichlorprop	253948000 258455006	256946720 250985020	253424340 262537590	251838340 260988077	Ave		256140387				1.7		20.0			
2,4-D	304754500 319190594	309510160 310716568	313557920 325116650	313514680 328562078	Ave		315615394				2.6		20.0			
Pentachlorophenol	3958180400 5312178629	4406828800 5306136208	4675081280 5762886144	4978059880 6142294936	Ave		5067705785				14.1		20.0			
Silvex (2,4,5-TP)	1543852800 1979248274	1673453440 1967749392	1757767760 2073107136	1859130720 2115339032	Ave		1871206069				10.7		20.0			
Chloramben	1278621200 1718368920	1400724200 1714915132	1488150820 1884259802	1598034410 2025978443	Ave		1638631616				15.2		20.0			
2,4,5-T	1770547200 1927062263	1755920160 1892549856	1778178880 1981964360	1816292280 1992902852	Ave		1864427231				5.2		20.0			
2,4-DB	155106800 181955463	169584720 178625332	169989500 189633482	171400920 193274970	Ave		176196398				7.0		20.0			
Dinoseb	883053600 1174348909	980299560 1165516024	1003858440 1242644498	1089137330 1314025484	Ave		1106610481				13.1		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57184

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Bentazon	237265100 264116669	252620960 257975996	251836540 270292904	253866100 270773698	Ave		257343496				4.3		20.0			
Picloram	2068364300 2880648589	2387441120 2898059392	2497091420 3293180308	2658849710 +++++	Ave		2669090691				15.0		20.0			
Tetraphthalic acid, tetrachloro-, dimethyl	2272104700 3041027223	2578541480 3049196252	2717417820 3336707492	2862796940 +++++	Ave		2836827415				12.4		20.0			
Acifluorfen	1590473000 2226585200	1811189040 2243089812	1848579360 2482446786	2041340920 +++++	Ave		2034814874				15.1		20.0			
2,4-Dichlorophenylacetic acid (Surr)	200071800 197774526	199269440 192075308	196487840 199932728	193969790 199916295	Ave		197437216				1.5		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57184

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523317/11	SE090011.D
Level 2	IC 680-523317/10	SE090010.D
Level 3	IC 680-523317/9	SE090009.D
Level 4	IC 680-523317/8	SE090008.D
Level 5	IC 680-523317/7	SE090007.D
Level 6	IC 680-523317/6	SE090006.D
Level 7	IC 680-523317/5	SE090005.D
Level 8	IC 680-523317/4	SE090004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Lin2	6790041 117859465	14657660 240788645	26486244 472686723	48692714	85561651	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
3,5-Dichlorobenzoic acid	Ave	2944716 76558268	7620330 161466175	15124840 319887544	30671888	55316182	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
4-Nitrophenol	Ave	1040738 24787202	2605390 46516413	5013484 91420310	10063608	18148801	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dicamba	Ave	4372331 125123739	11616649 264745935	23742571 540043675	48666881	88963078	0.00500 0.125	0.0125 0.250	0.0250 0.500	0.0500	0.0875
MCPP	Ave	517455 15798581	1745483 31559204	3508507 65821733	6799750	11735070	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
MCPA	Lin2	913431 20303334	2425365 41163701	4645587 78220442	8784914	15184702	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
Dichlorprop	Ave	2539480 62746255	6423668 131268795	12671217 260988077	25183834	45229626	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4-D	Ave	3047545 77679142	7737754 162558325	15677896 328562078	31351468	55858354	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Pentachlorophenol	Ave	9895451 331633513	27542680 720360768	58438516 1535573734	124451497	232407815	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
Silvex (2,4,5-TP)	Ave	3859632 122984337	10459084 259138392	21972097 528834758	46478268	86592112	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
Chloramben	Ave	12786212 428728783	35018105 942129901	74407541 2025978443	159803441	300714561	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4,5-T	Ave	4426368 118284366	10974501 247745545	22227236 498225713	45407307	84308974	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
2,4-DB	Ave	1551068 44656333	4239618 94816741	8499475 193274970	17140092	31842206	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dinoseb	Ave	8830536 291379006	24507489 621322249	50192922 1314025484	108913733	205511059	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Bentazon	Ave	2372651 64493999	6315524 135146452	12591827 270773698	25386610	46220417	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57184

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Picloram	Ave	20683643 724514848	59686028 1646590154	124854571 +++++	265884971	504113503	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	22721047 762299063	64463537 1668353746	135870891 +++++	286279694	532179764	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
Acifluorfen	Ave	15904730 560772453	45279726 1241223393	92428968 +++++	204134092	389652410	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	2000718 48018827	4981736 99966364	9824392 199916295	19396979	34610542	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 09-May-2018 17:59:52 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:06 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 18:51:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							a
1	2.492	2.491	0.001	472686723	1.00	0.9892	a
2	2.543	2.540	0.003	1486390376	1.00	1.05	a
						RPD = 6.41	
2 2,6-Dichlorophenol							a
1	4.943	4.943	0.000	93110884	NC	NC	a
2	5.030	5.028	0.002	499305693	NC	NC	a
						RPD = 4.02	
3 2,4,6-Trichlorophenol							a
1	5.712	5.710	0.002	1340729096	NC	NC	a
2	5.704	5.700	0.004	4940529110	NC	NC	a
						RPD = 10.44	
4 3,5-Dichlorobenzoic acid							a
1	6.048	6.047	0.001	319887544	1.00	1.03	a
2	6.043	6.040	0.003	1744604922	1.00	1.08	a
						RPD = 4.17	
5 4-Nitrophenol							a
1	6.173	6.173	0.000	91420310	1.00	0.9182	a
2	6.426	6.426	0.000	285656847	1.00	0.9182	a
						RPD = 0.00	
$ 6 2,4-Dichlorophenylacetic acid							a
1	6.605	6.604	0.001	199916295	1.00	1.01	a
2	6.754	6.752	0.002	1320744257	1.00	1.06	a
						RPD = 4.72	
7 Dicamba							a
1	6.643	6.642	0.001	540043675	0.5000	0.5480	a
2	6.836	6.833	0.003	2436964400	0.5000	0.5495	a
						RPD = 0.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							a
1	6.794	6.789	0.005	65821733	100.0	101.5	a
2	6.885	6.880	0.005	369583811	100.0	99.0	a
						RPD = 2.50	
9 MCPA							a
1	6.922	6.916	0.006	78220442	100.0	92.2	a
2	7.084	7.078	0.006	724807549	100.0	96.7	a
						RPD = 4.75	
10 Dichlorprop							a
1	7.103	7.102	0.001	260988077	1.00	1.02	a
2	7.225	7.223	0.002	1282238794	1.00	1.05	a
						RPD = 2.77	
11 2,4-D							a
1	7.246	7.246	0.000	328562078	1.00	1.04	a
2	7.444	7.443	0.001	1629748617	1.00	1.12	a
						RPD = 6.99	
12 Pentachlorophenol							a
1	7.597	7.594	0.003	1535573734	0.2500	0.3030	a
2	7.642	7.637	0.005	4549801262	0.2500	0.2698	a
						RPD = 11.60	
13 Silvex (2,4,5-TP)							a
1	7.693	7.692	0.001	528834758	0.2500	0.2826	a
2	7.777	7.774	0.003	1933247676	0.2500	0.2882	a
						RPD = 1.94	
14 Chloramben							a
1	7.772	7.770	0.002	2025978443	1.00	1.24	a
2	8.084	8.081	0.003	5823384953	1.00	1.08	a
						RPD = 13.91	
15 2,4,5-T							a
1	7.848	7.848	0.000	498225713	0.2500	0.2672	a
2	8.009	8.008	0.001	1819790712	0.2500	0.2920	a
						RPD = 8.87	
16 2,4-DB							a
1	8.090	8.091	-0.001	193274970	1.00	1.10	a
2	8.223	8.222	0.001	849802206	1.00	0.9682	a
						RPD = 12.47	
17 Dinoseb							a
1	8.146	8.144	0.002	1314025484	1.00	1.19	a
2	8.178	8.173	0.005	4034212367	1.00	1.23	a
						RPD = 3.50	
18 Bentazon							a
1	8.218	8.218	0.000	270773698	1.00	1.05	a
2	8.582	8.578	0.004	824414003	1.00	1.11	a
						RPD = 5.11	
19 Picloram							Ma
1	8.436	8.433	0.003	3621817547	1.00	1.36	a
2	8.920	8.913	0.007	11034840048	1.00	1.33	M
						RPD = 1.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							a
1	8.541	8.537	0.004	3595185453	1.00	1.27	a
2	8.699	8.692	0.007	9277203223	1.00	1.04	a
						RPD = 19.55	
21 Acifluorfen							a
1	9.580	9.577	0.003	2794380058	1.00	1.37	a
2	9.718	9.710	0.008	8638829439	1.00	1.05	a
						RPD = 26.75	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

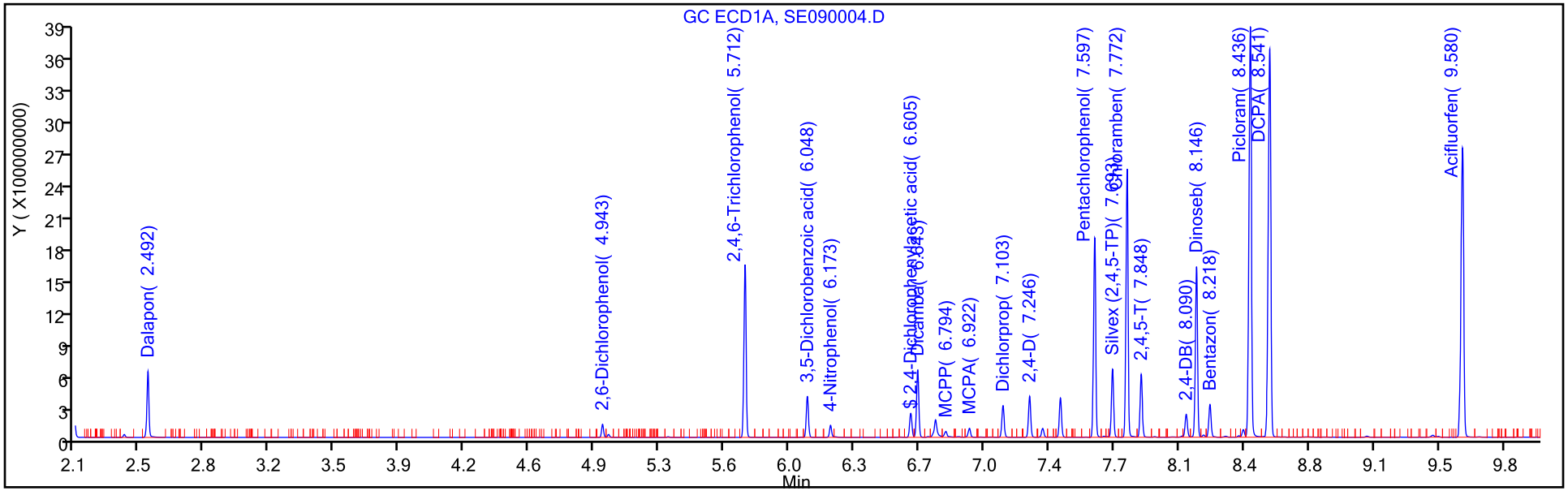
Report Date: 10-May-2018 10:32:09 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

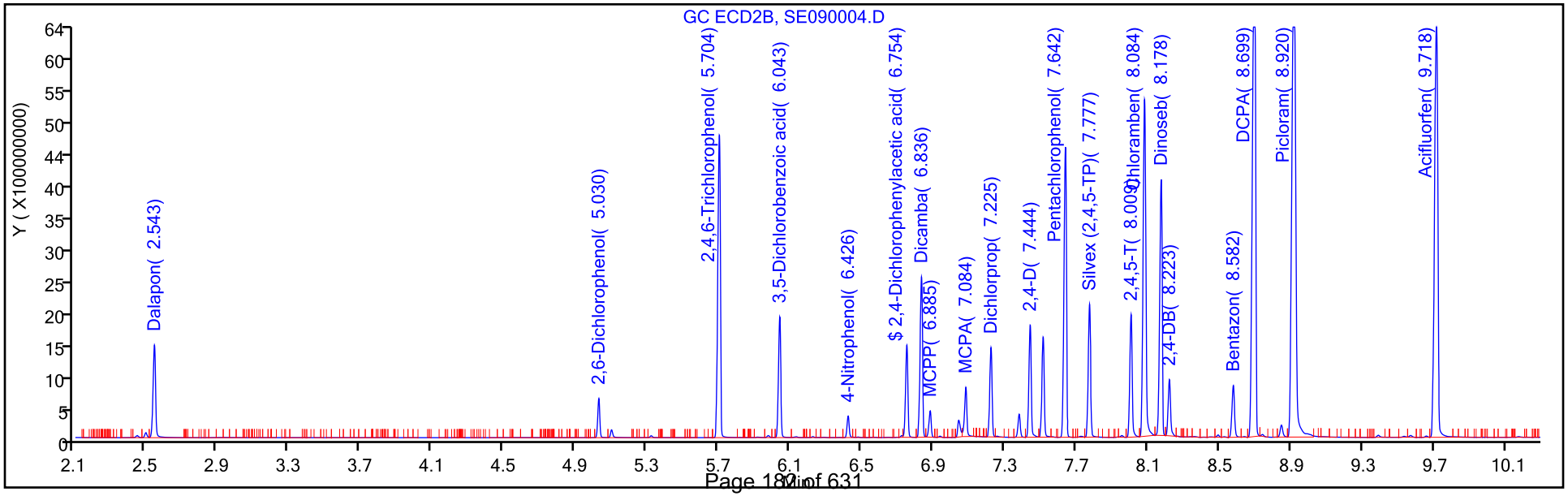
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

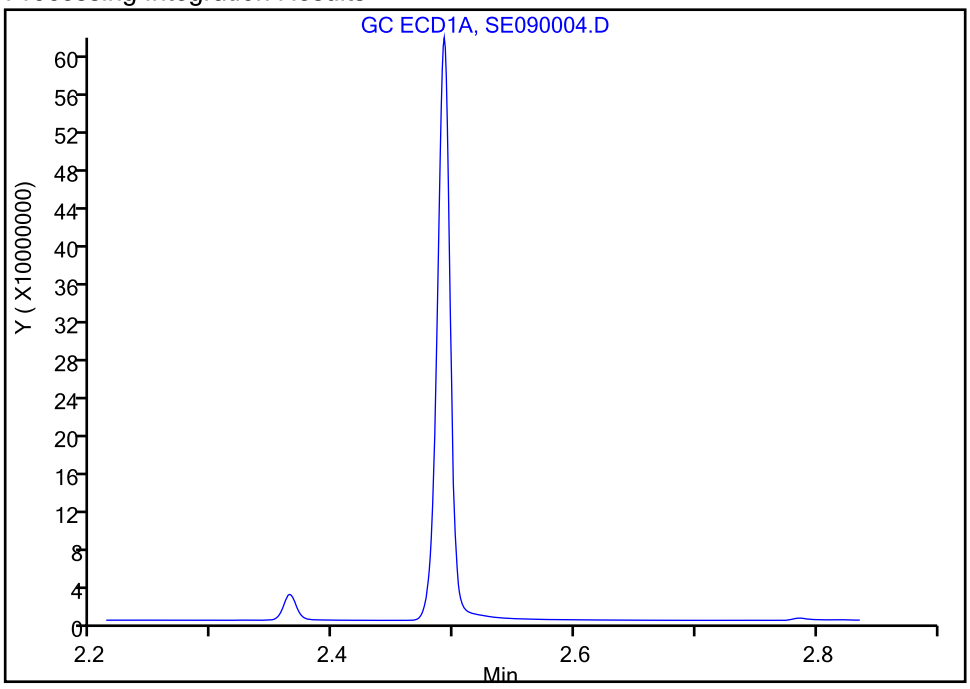
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Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

1 Dalapon, CAS: 75-99-0

Signal: 1

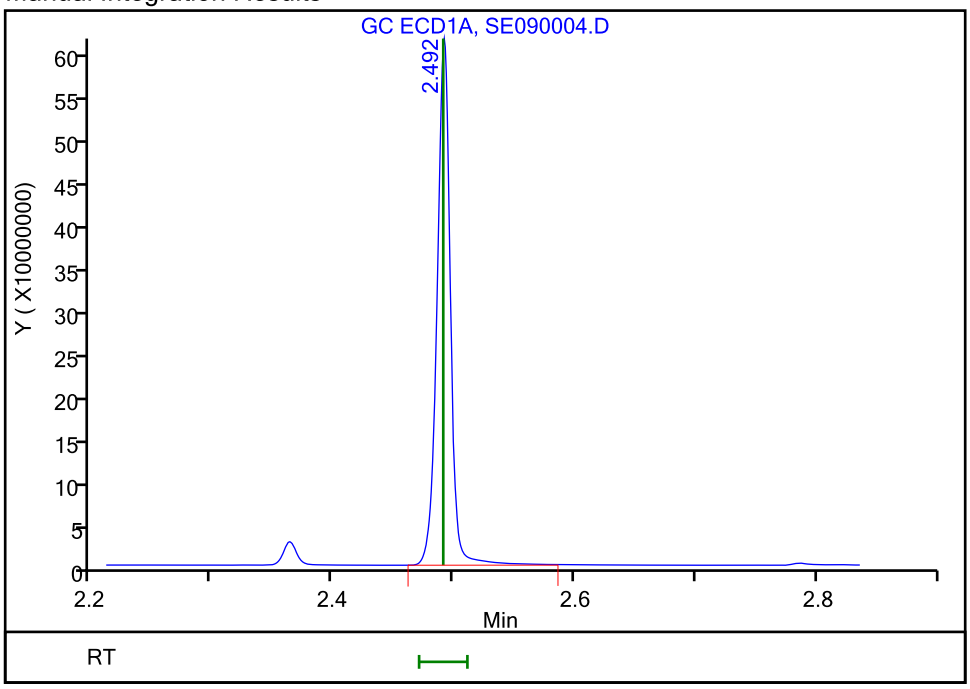
Not Detected
Expected RT: 2.49

Processing Integration Results



Manual Integration Results

RT: 2.49
Area: 472686723
Amount: 0.989208
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:47:59
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

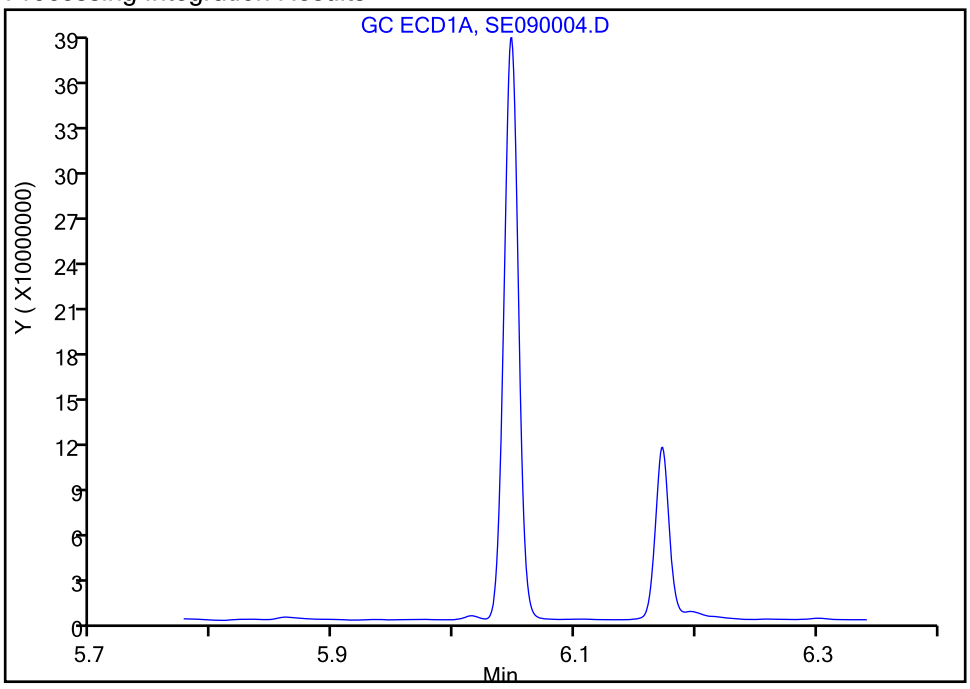
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

4 3,5-Dichlorobenzoic acid, CAS: 51-36-5

Signal: 1

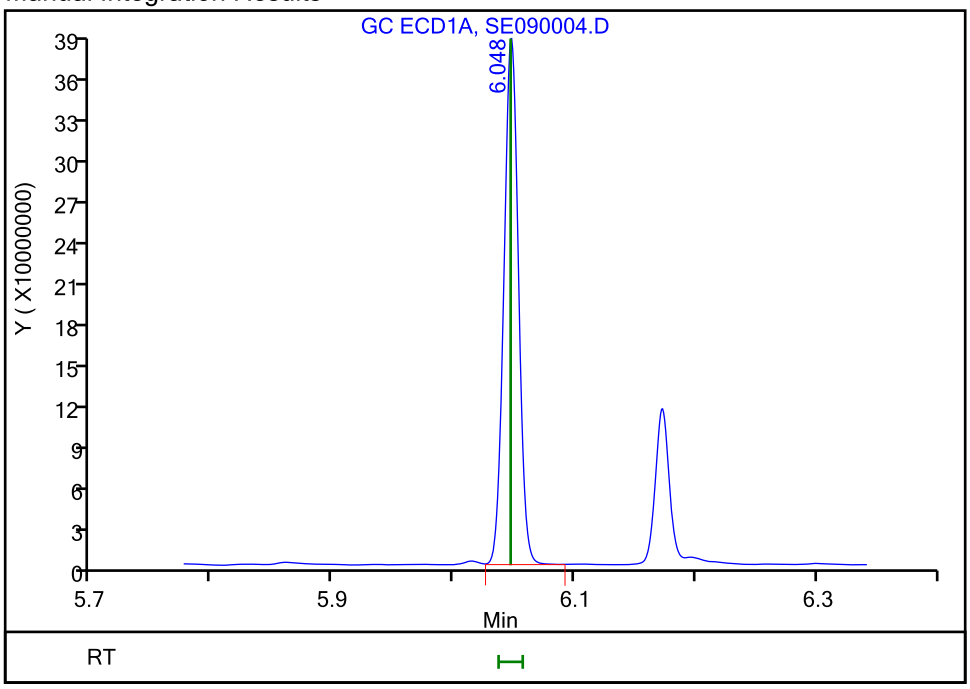
Not Detected
Expected RT: 6.05

Processing Integration Results



Manual Integration Results

RT: 6.05
Area: 319887544
Amount: 1.034546
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:48:20
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

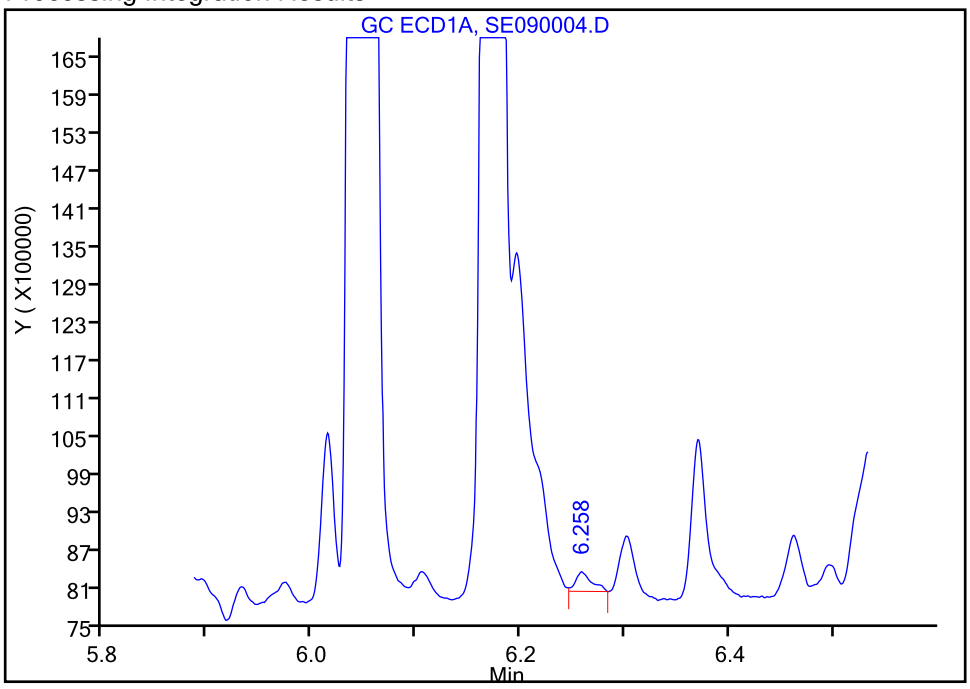
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

5 4-Nitrophenol, CAS: 100-02-7

Signal: 1

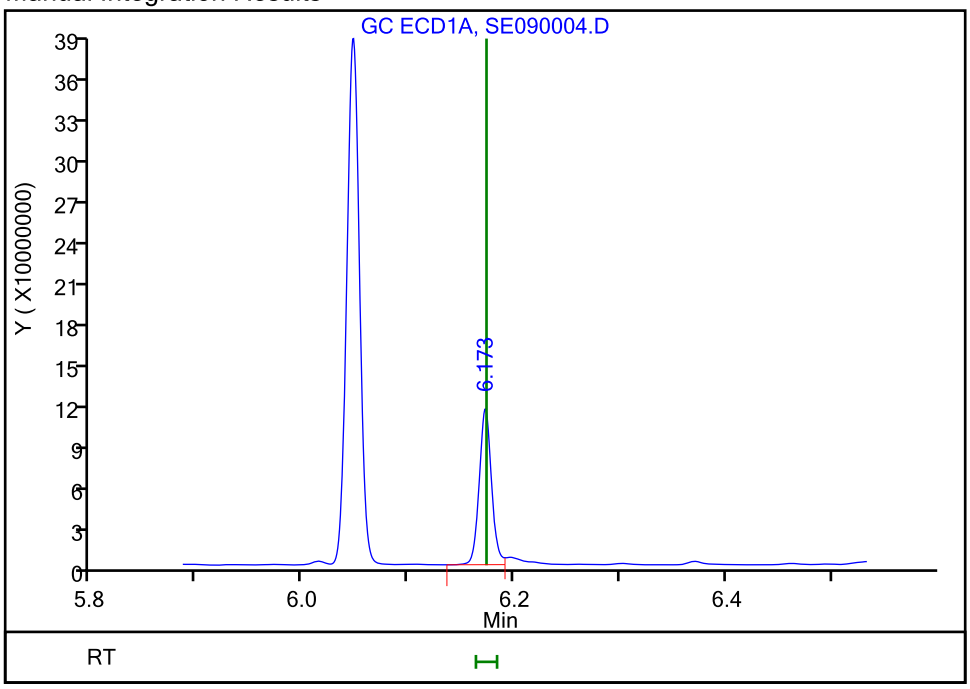
Processing Integration Results

RT: 6.26
Area: 329130
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 6.17
Area: 91420310
Amount: 0.918215
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:48:25
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

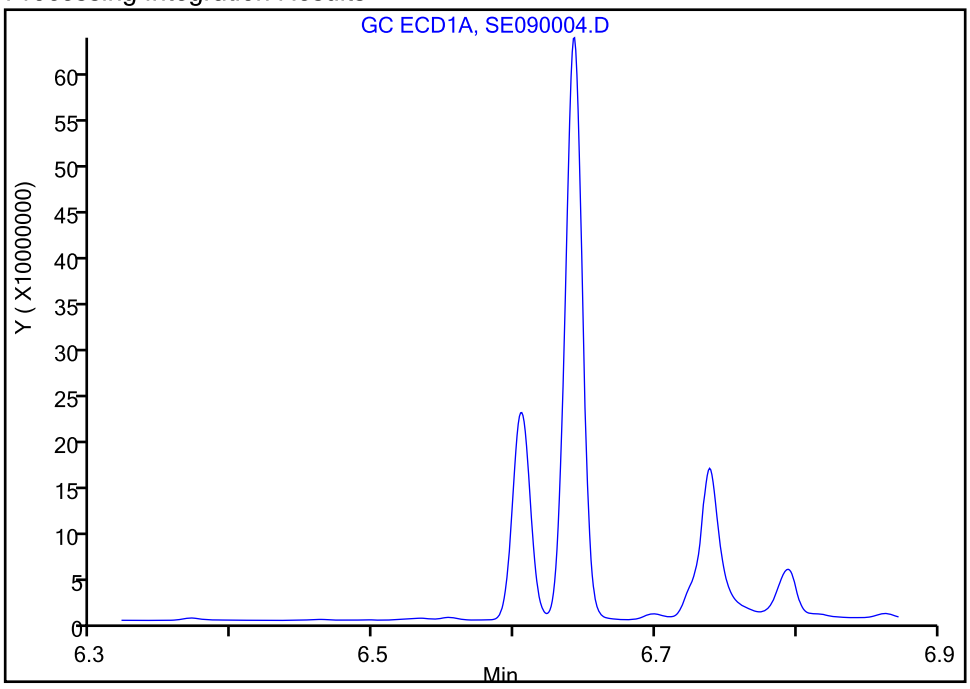
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 1

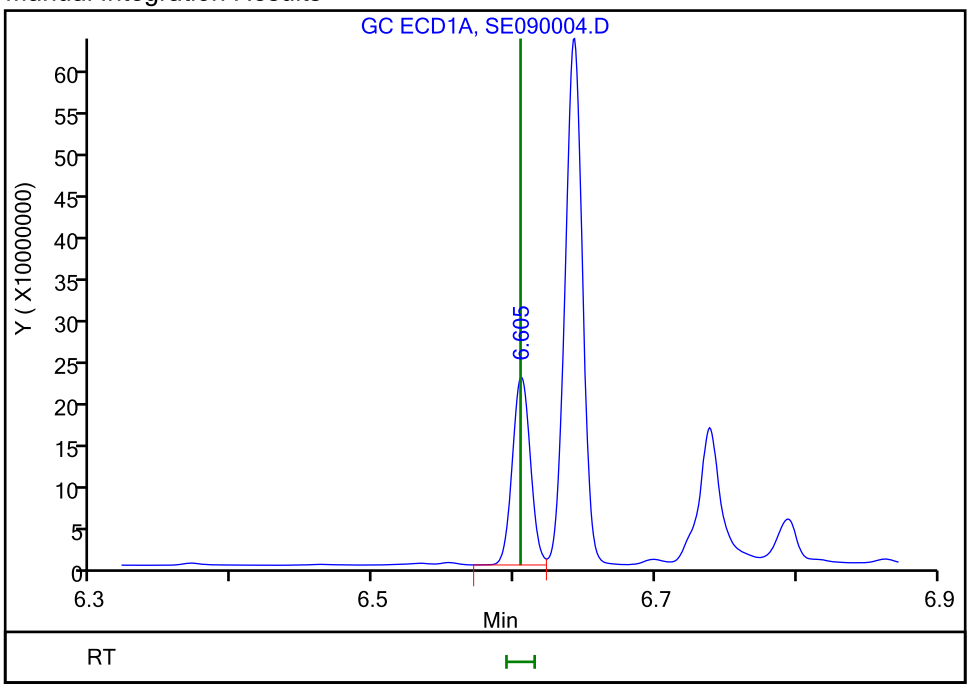
Not Detected
Expected RT: 6.60

Processing Integration Results



Manual Integration Results

RT: 6.61
Area: 199916295
Amount: 1.012556
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:48:31
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

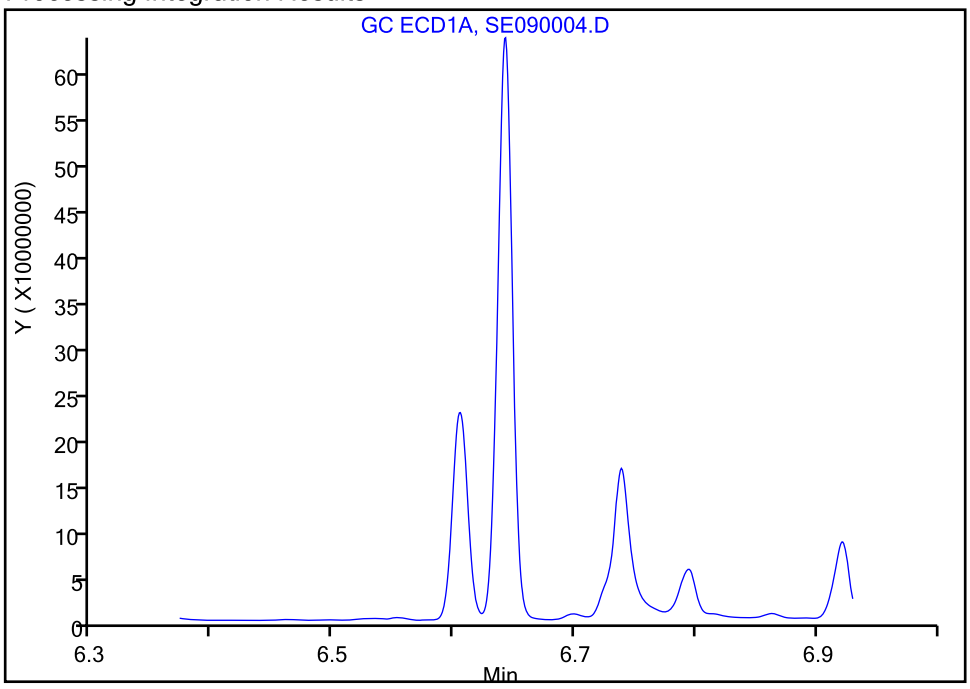
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

7 Dicamba, CAS: 1918-00-9

Signal: 1

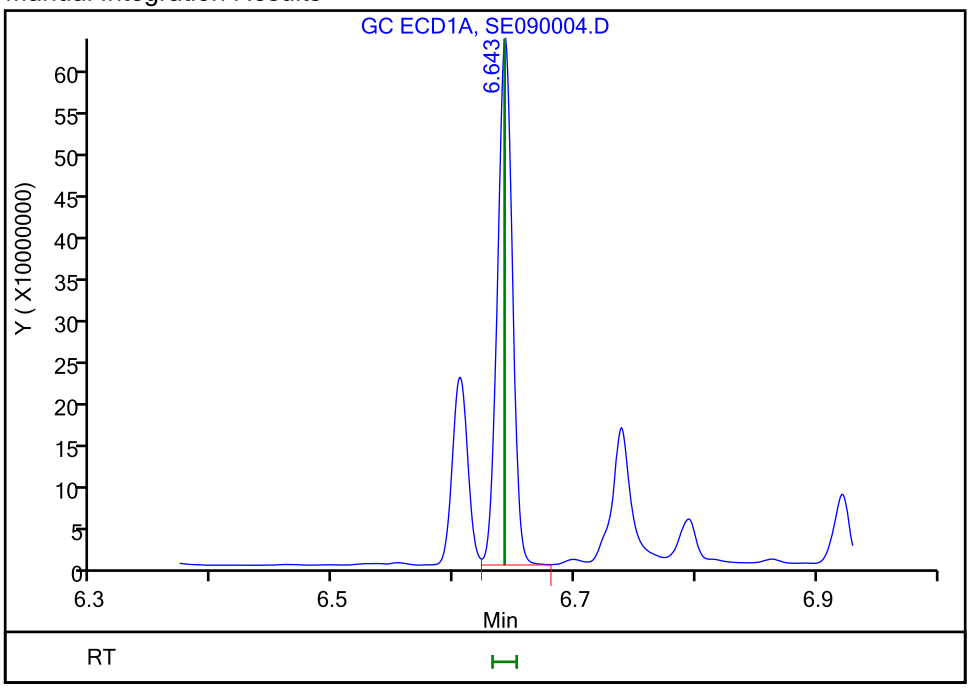
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.64
Area: 540043675
Amount: 0.548016
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:48:34
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

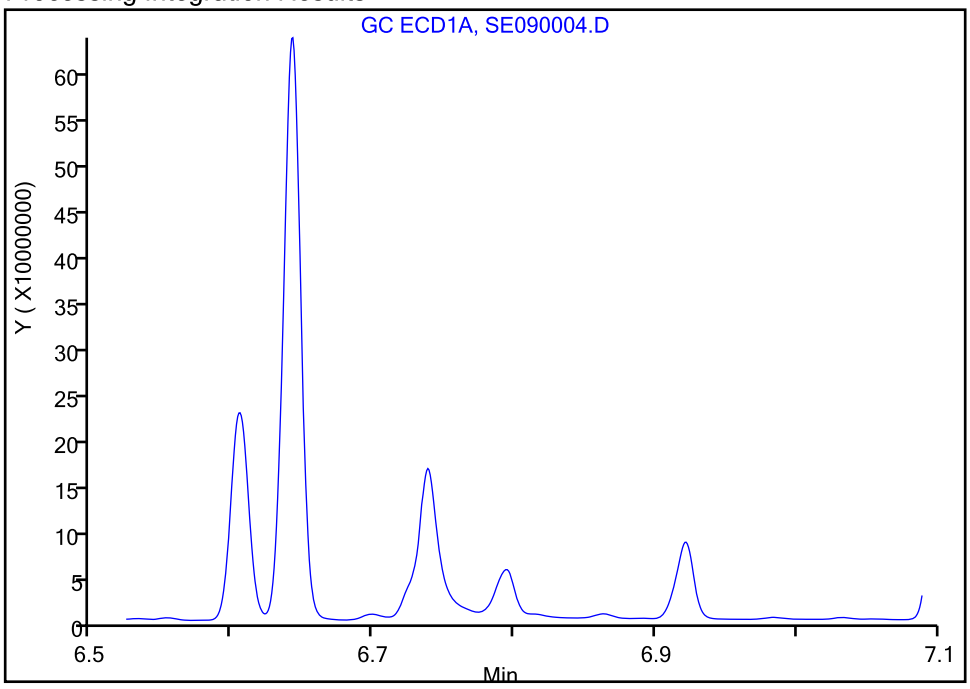
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Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

8 MCPP, CAS: 93-65-2

Signal: 1

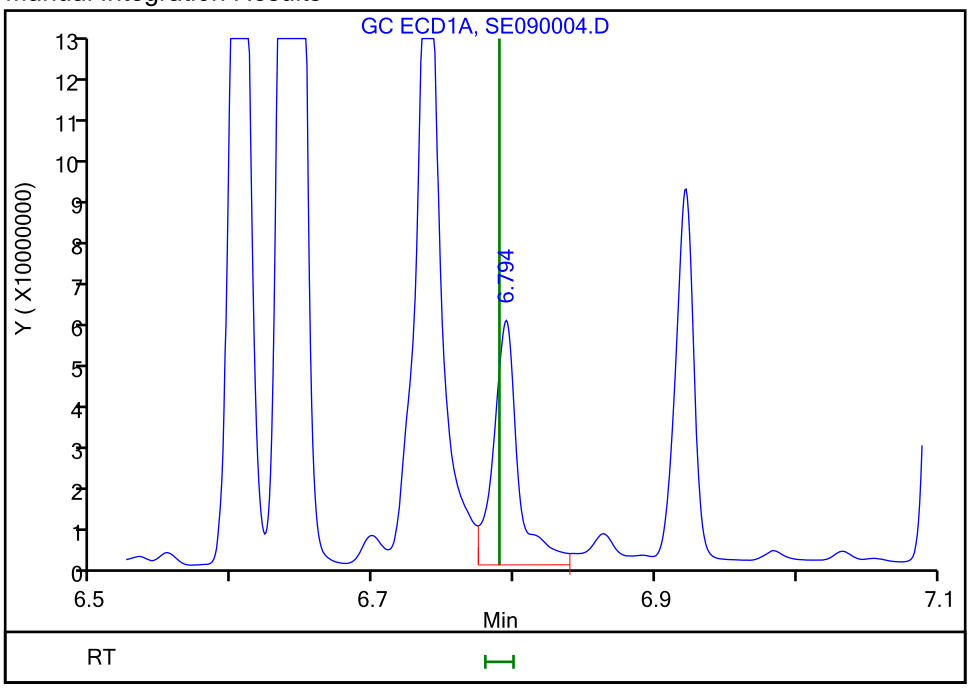
Not Detected
Expected RT: 6.79

Processing Integration Results



Manual Integration Results

RT: 6.79
Area: 65821733
Amount: 101.4741
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 10:25:56
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

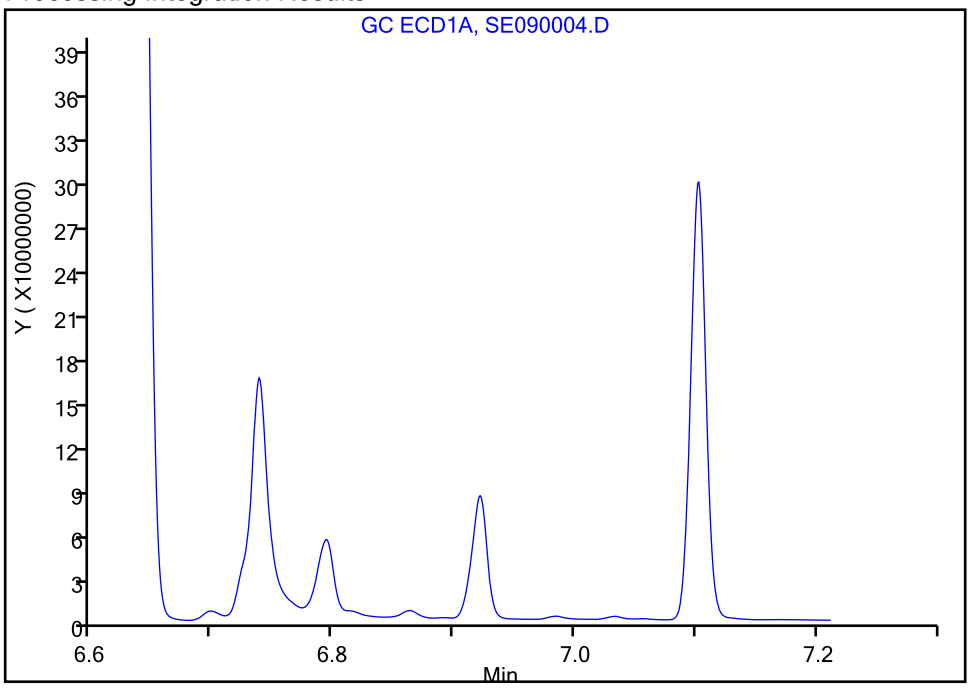
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Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

9 MCPA, CAS: 94-74-6

Signal: 1

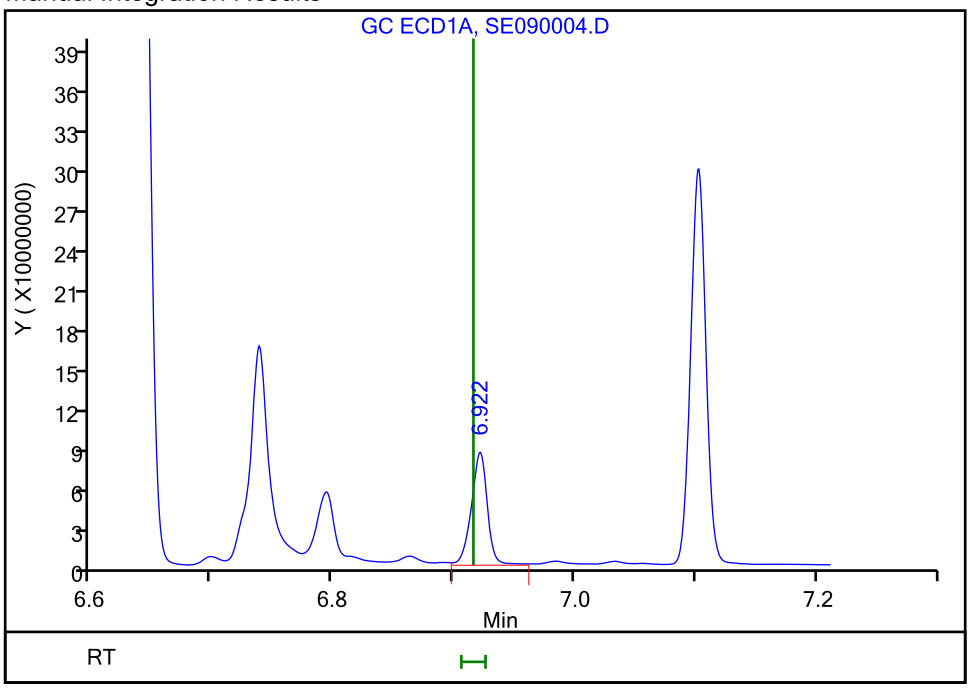
Not Detected
Expected RT: 6.92

Processing Integration Results



Manual Integration Results

RT: 6.92
Area: 78220442
Amount: 92.237177
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:48:40
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

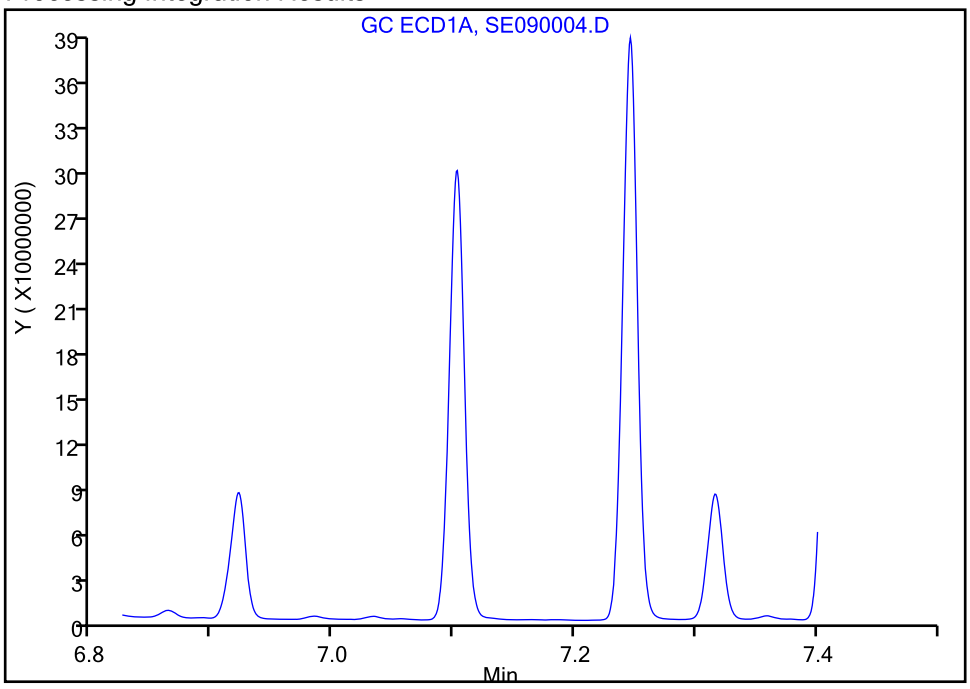
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

10 Dichlorprop, CAS: 120-36-5

Signal: 1

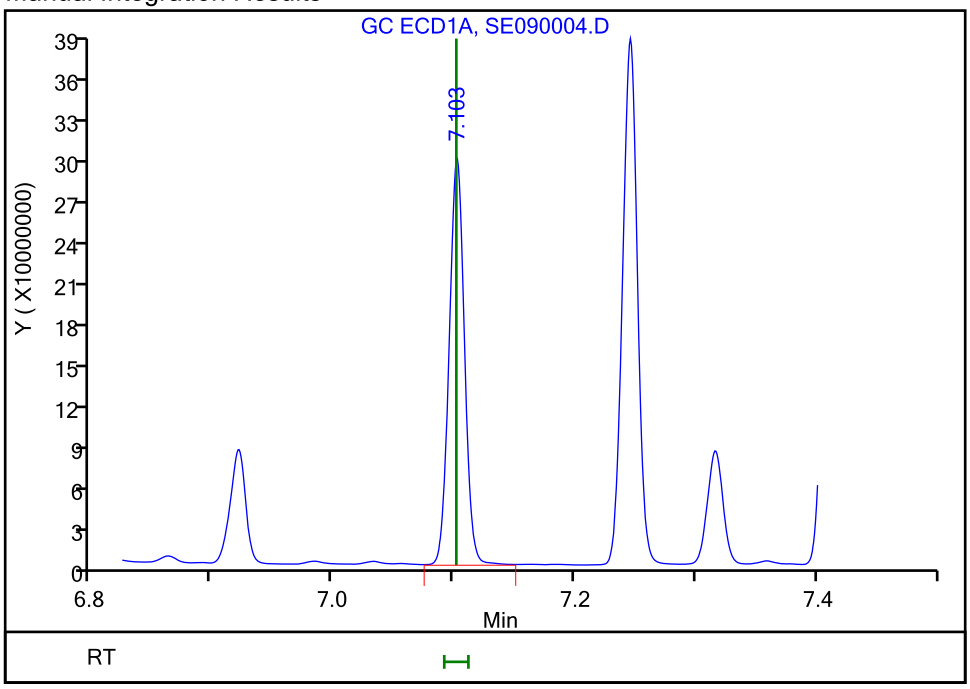
Not Detected
Expected RT: 7.10

Processing Integration Results



Manual Integration Results

RT: 7.10
Area: 260988077
Amount: 1.018926
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:48:51
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

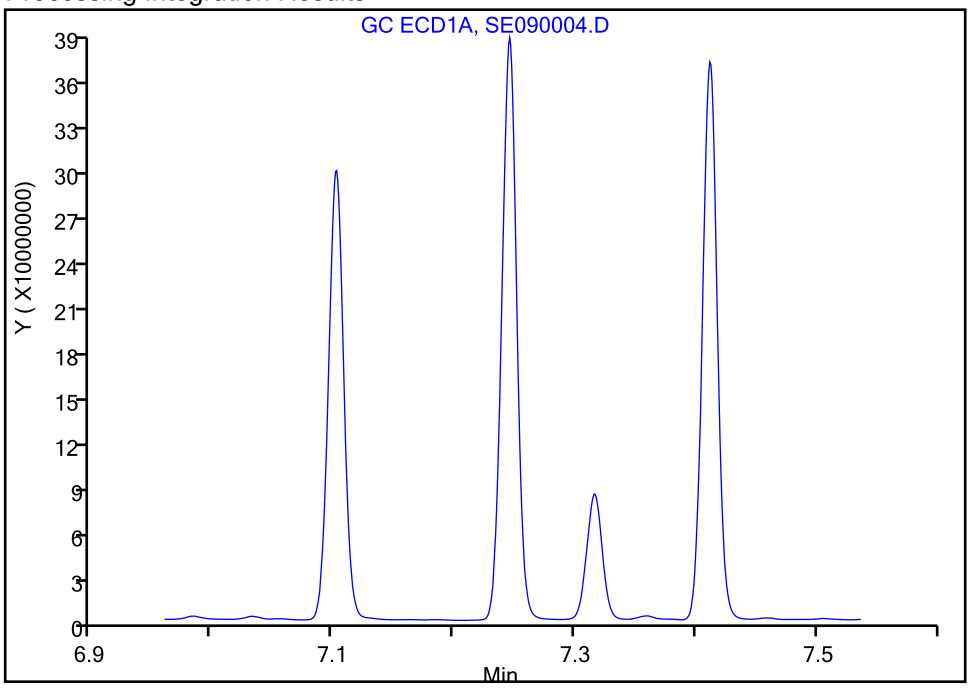
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

11 2,4-D, CAS: 94-75-7

Signal: 1

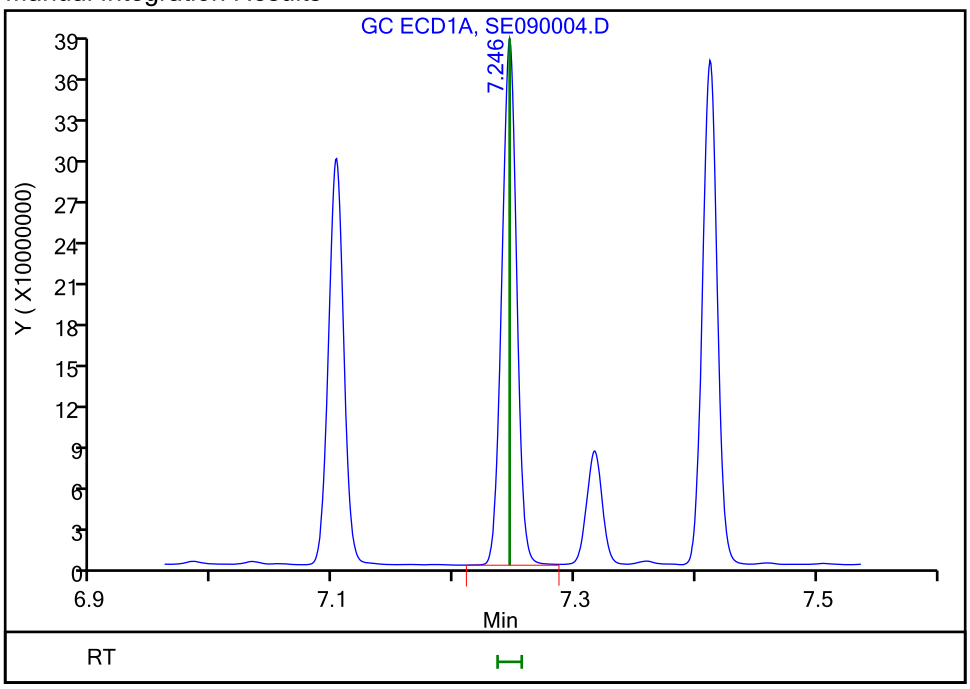
Not Detected
Expected RT: 7.25

Processing Integration Results



Manual Integration Results

RT: 7.25
Area: 328562078
Amount: 1.041020
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:48:54
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

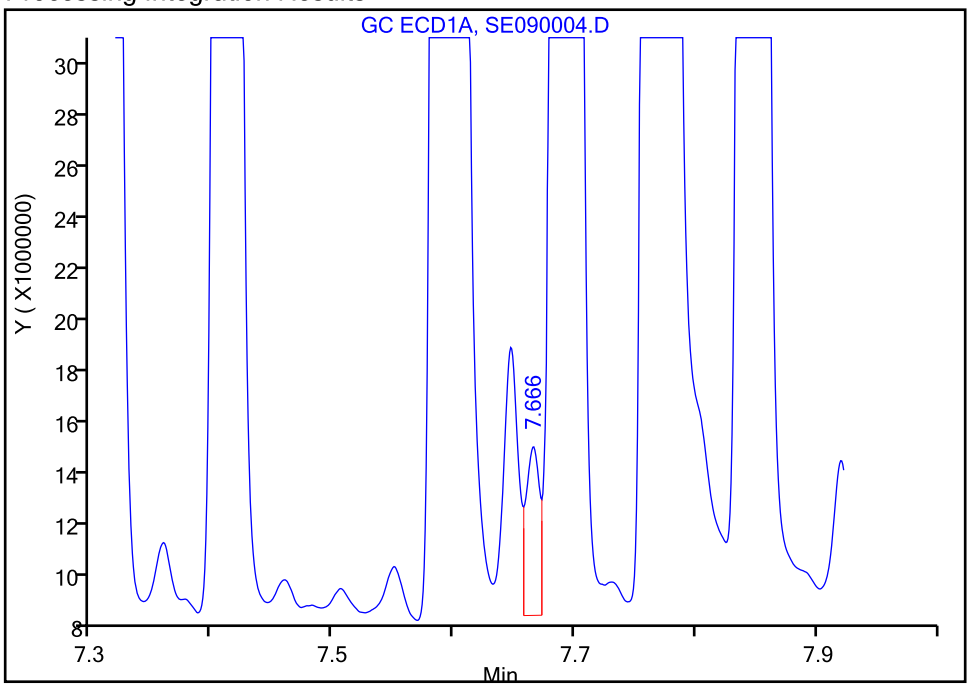
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

12 Pentachlorophenol, CAS: 87-86-5

Signal: 1

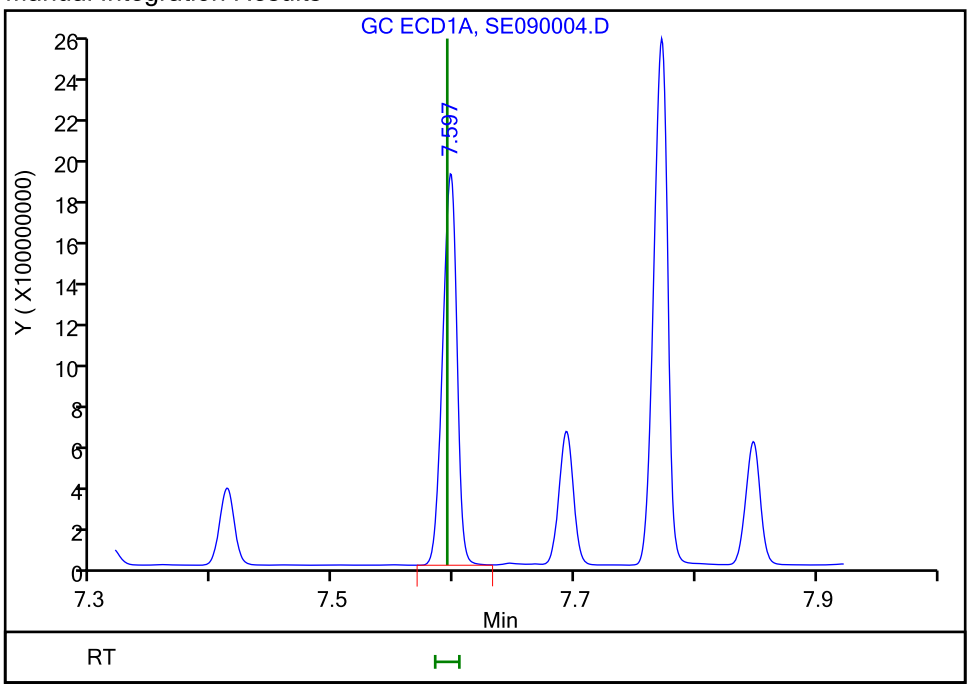
Processing Integration Results

RT: 7.67
Area: 4767366
Amount: 0.238545
Amount Units: ug/ml



Manual Integration Results

RT: 7.60
Area: 1535573734
Amount: 0.303012
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:00
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

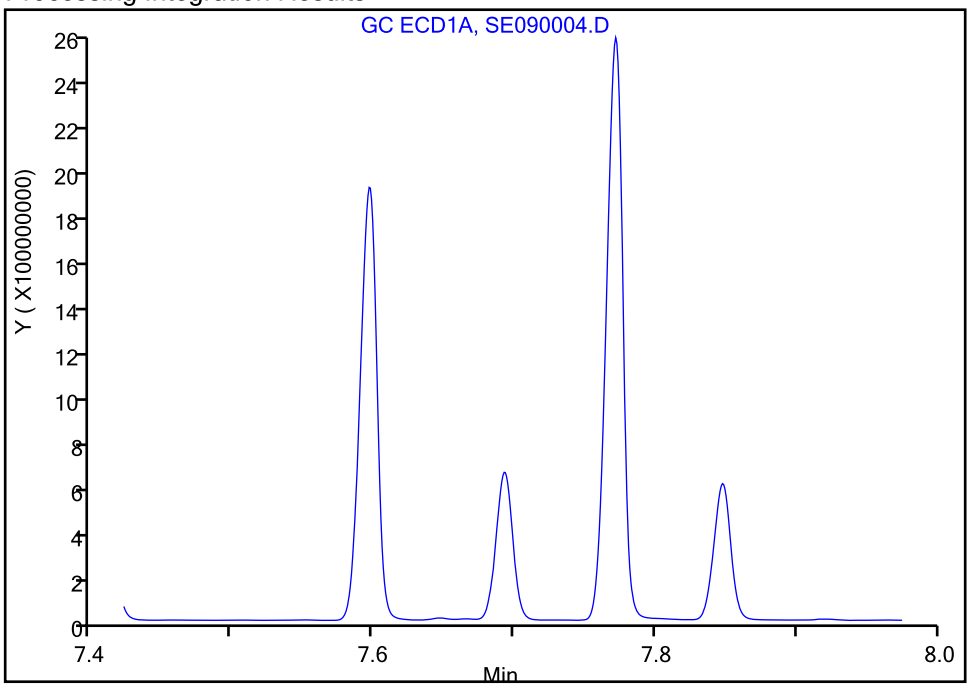
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 1

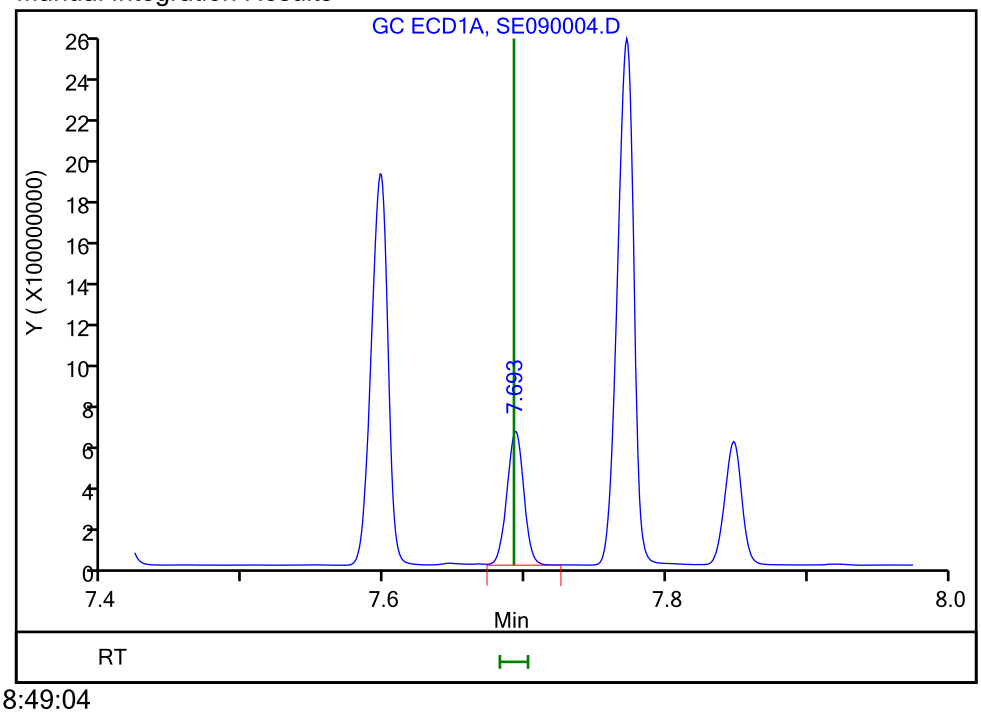
Not Detected
Expected RT: 7.69

Processing Integration Results



Manual Integration Results

RT: 7.69
Area: 528834758
Amount: 0.282617
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:04
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

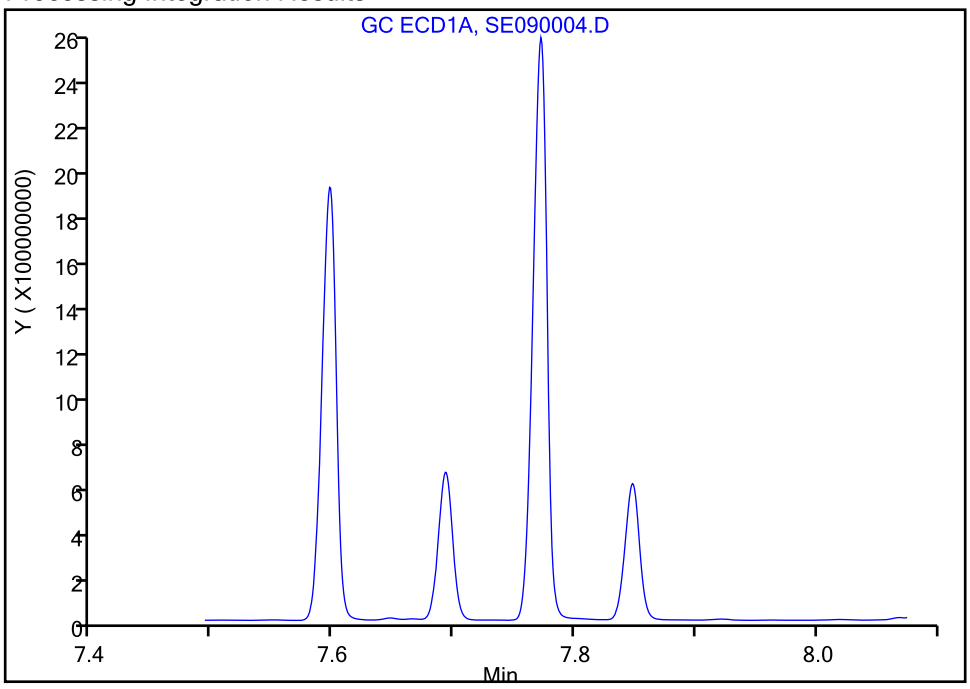
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

14 Chloramben, CAS: 133-90-4

Signal: 1

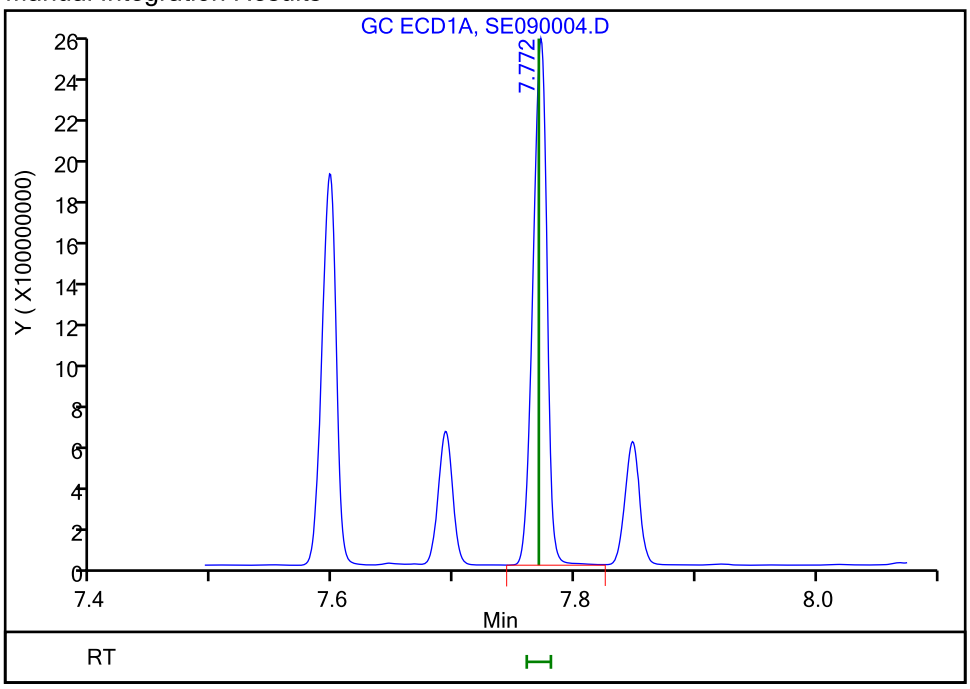
Not Detected
Expected RT: 7.77

Processing Integration Results



Manual Integration Results

RT: 7.77
Area: 2025978443
Amount: 1.236384
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:08
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

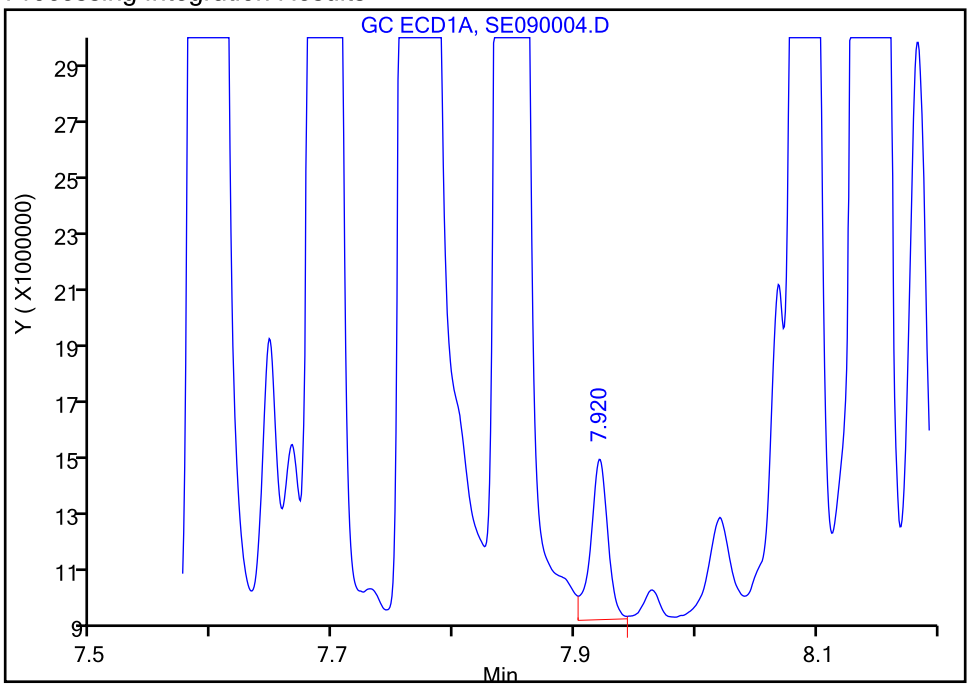
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

15 2,4,5-T, CAS: 93-76-5

Signal: 1

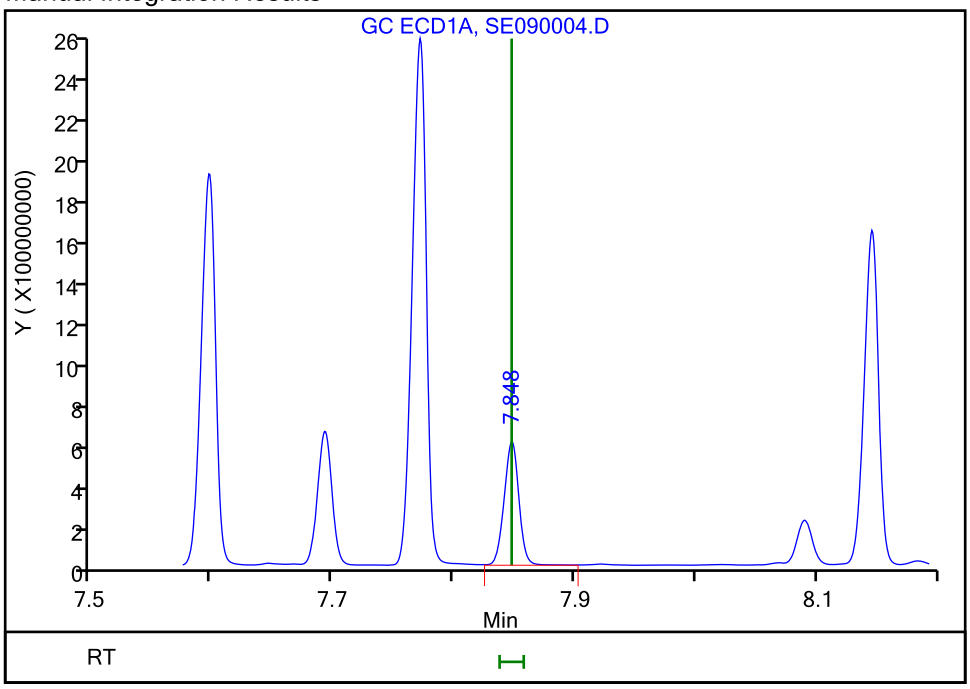
Processing Integration Results

RT: 7.92
Area: 5490488
Amount: 0.215657
Amount Units: ug/ml



Manual Integration Results

RT: 7.85
Area: 498225713
Amount: 0.267227
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:12
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

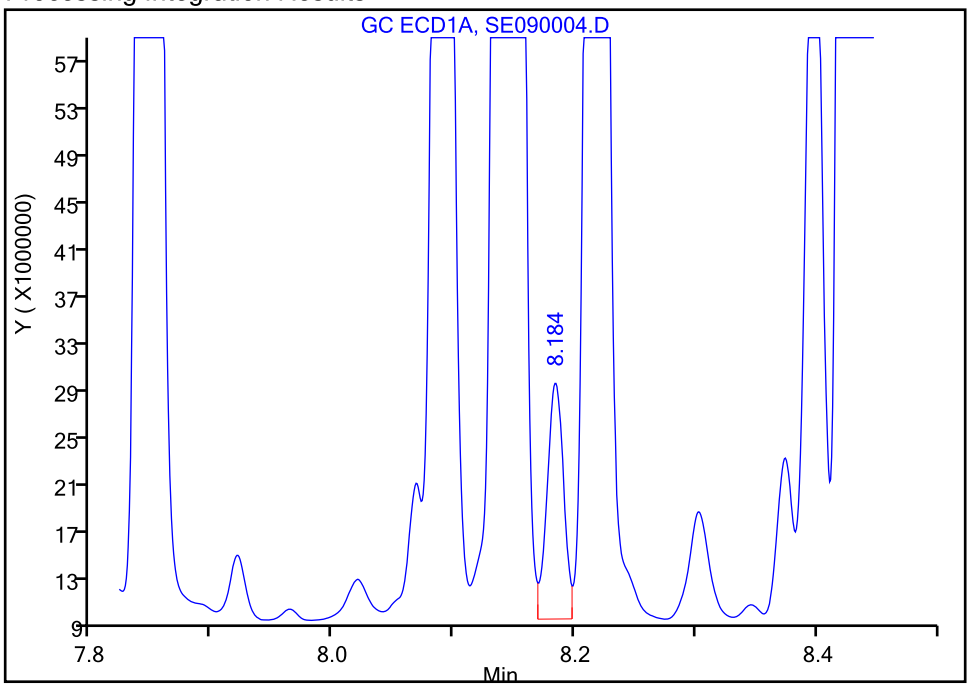
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

16 2,4-DB, CAS: 94-82-6

Signal: 1

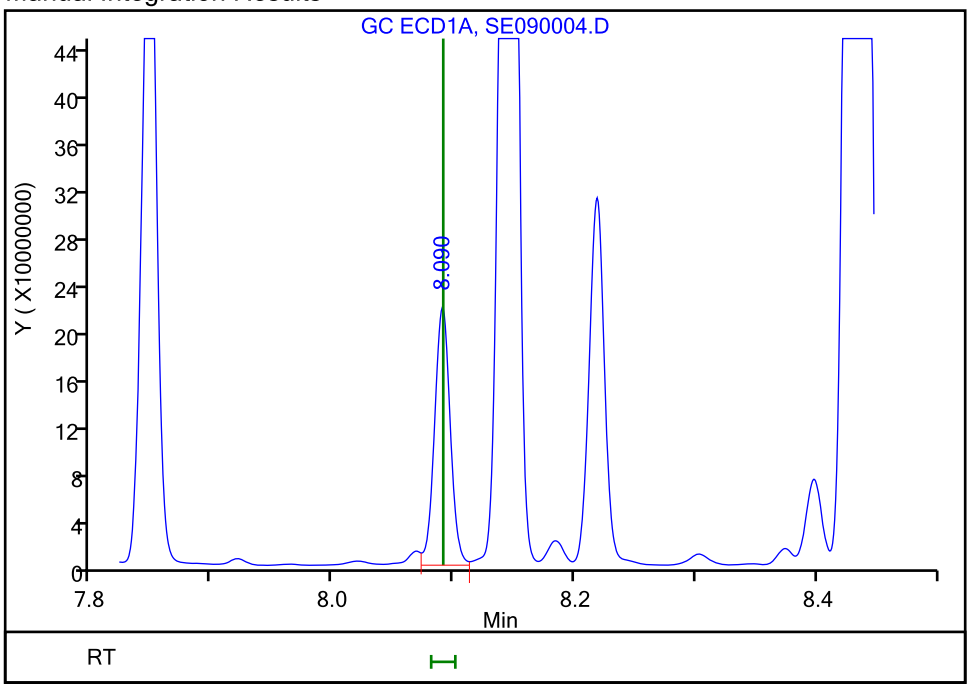
Processing Integration Results

RT: 8.18
Area: 18999977
Amount: 0.955259
Amount Units: ug/ml



Manual Integration Results

RT: 8.09
Area: 193274970
Amount: 1.096929
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:17
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

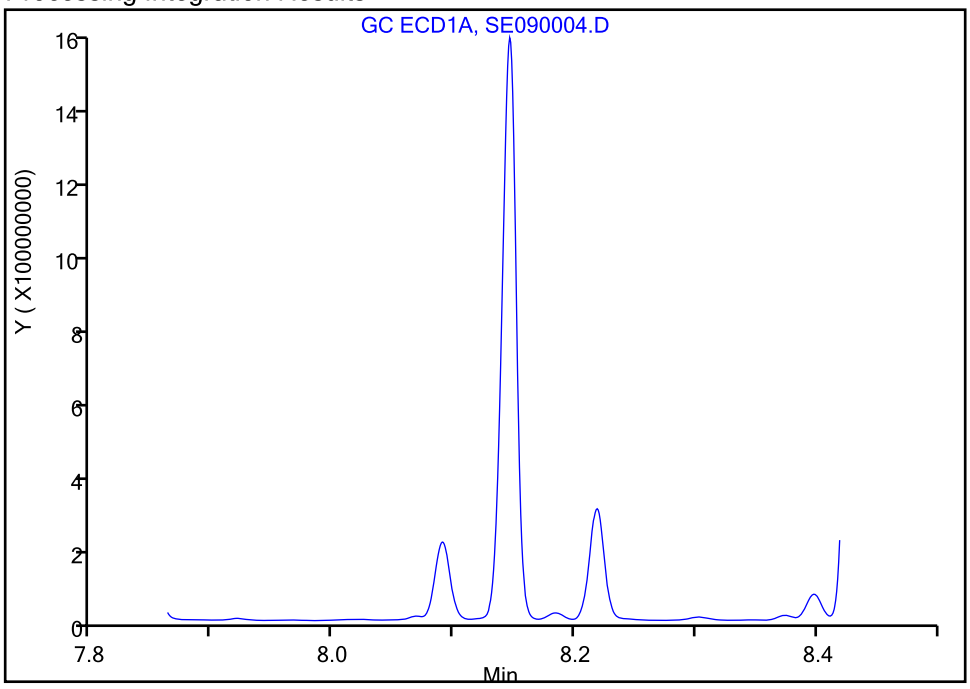
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

17 Dinoseb, CAS: 88-85-7

Signal: 1

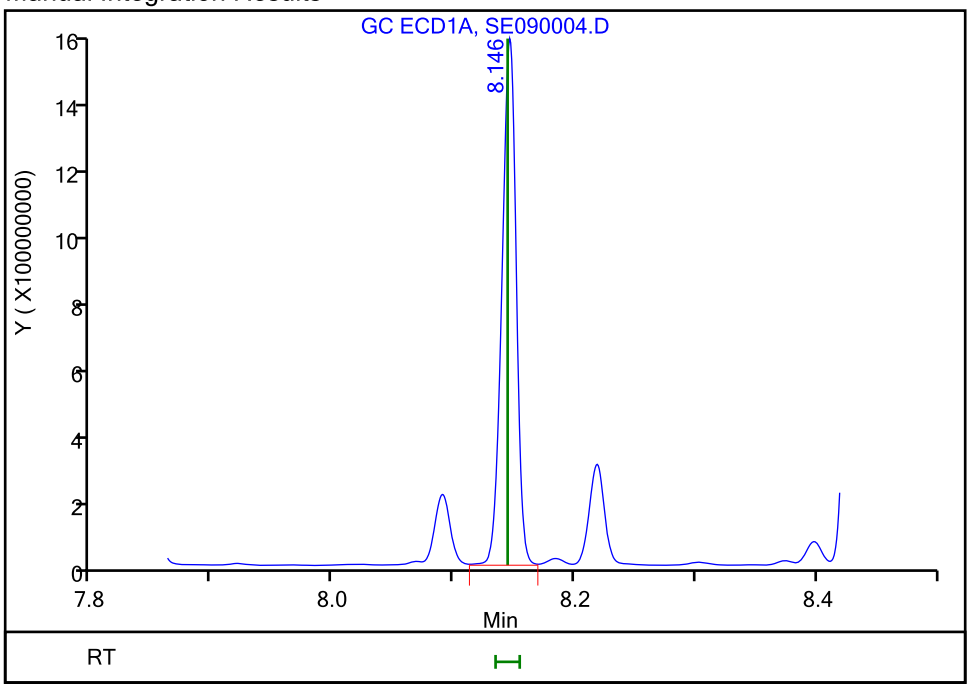
Not Detected
Expected RT: 8.14

Processing Integration Results



Manual Integration Results

RT: 8.15
Area: 1314025484
Amount: 1.187433
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:22
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

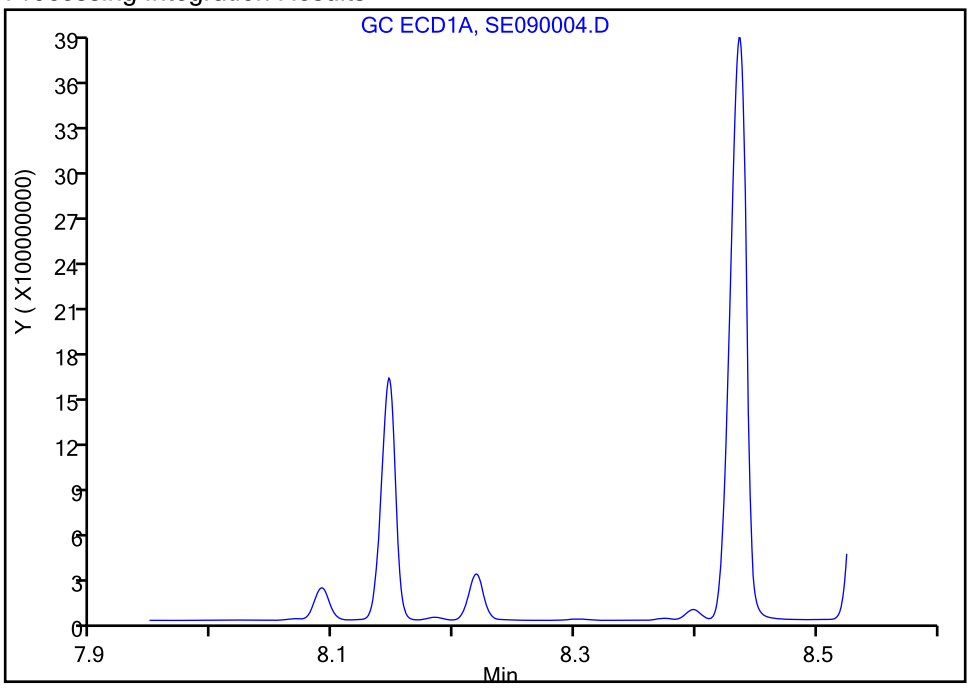
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

18 Bentazon, CAS: 25057-89-0

Signal: 1

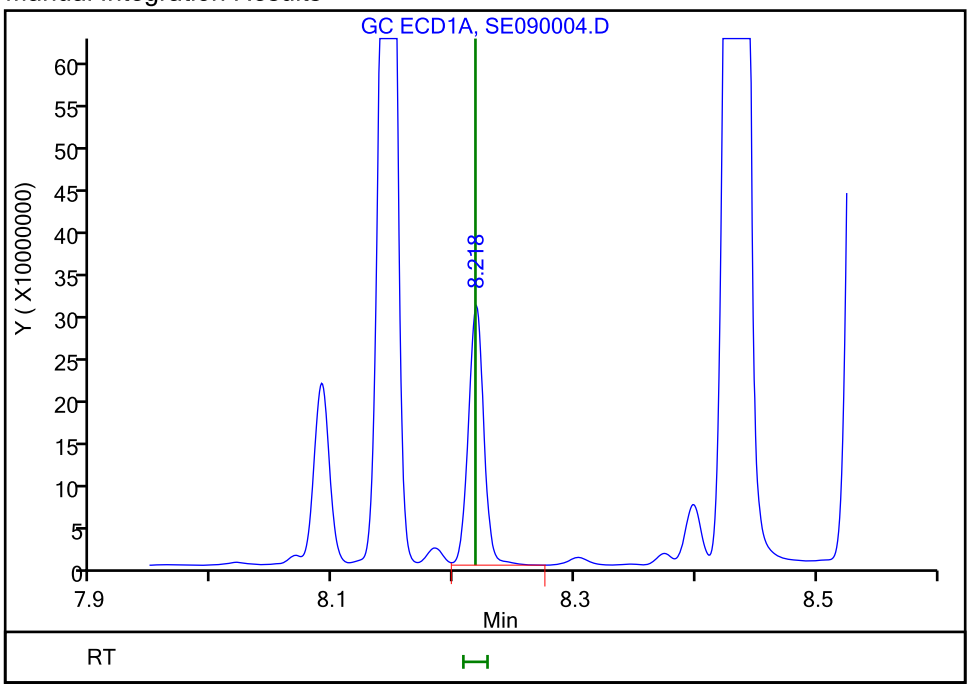
Not Detected
Expected RT: 8.22

Processing Integration Results



Manual Integration Results

RT: 8.22
Area: 270773698
Amount: 1.052188
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:26
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

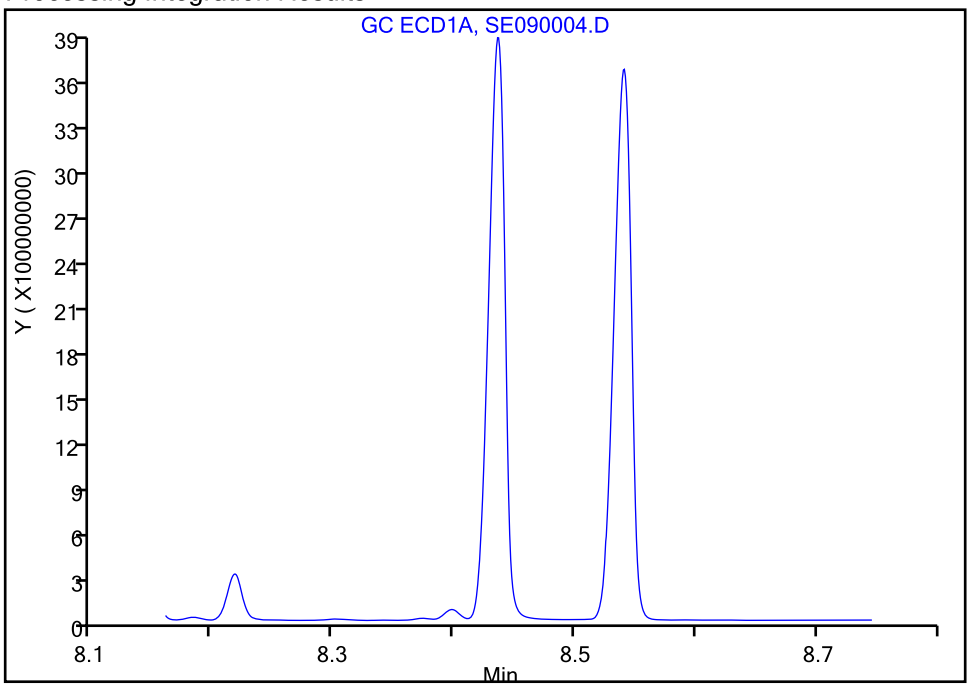
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

19 Picloram, CAS: 1918-02-1

Signal: 1

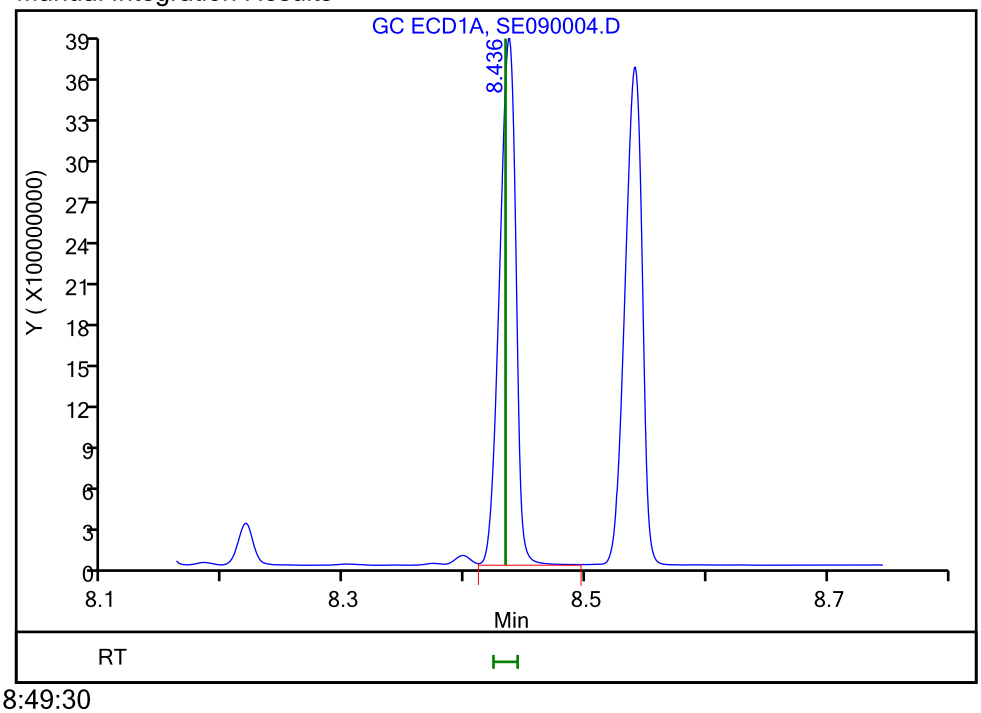
Not Detected
Expected RT: 8.43

Processing Integration Results



Manual Integration Results

RT: 8.44
Area: 3621817547
Amount: 1.356948
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:30
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

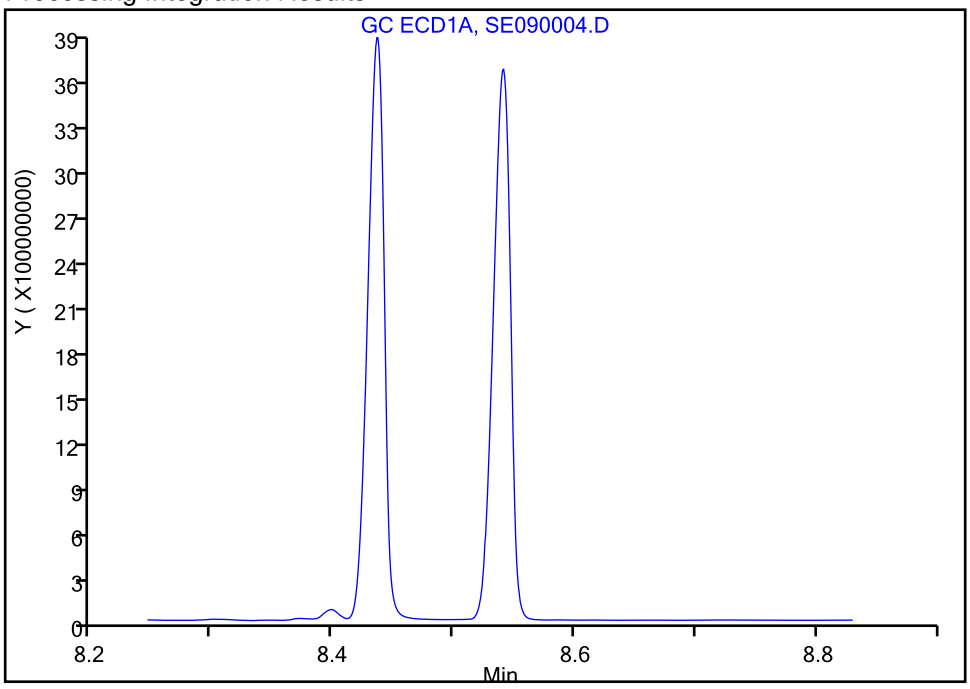
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

20 DCPA, CAS: 1861-32-1

Signal: 1

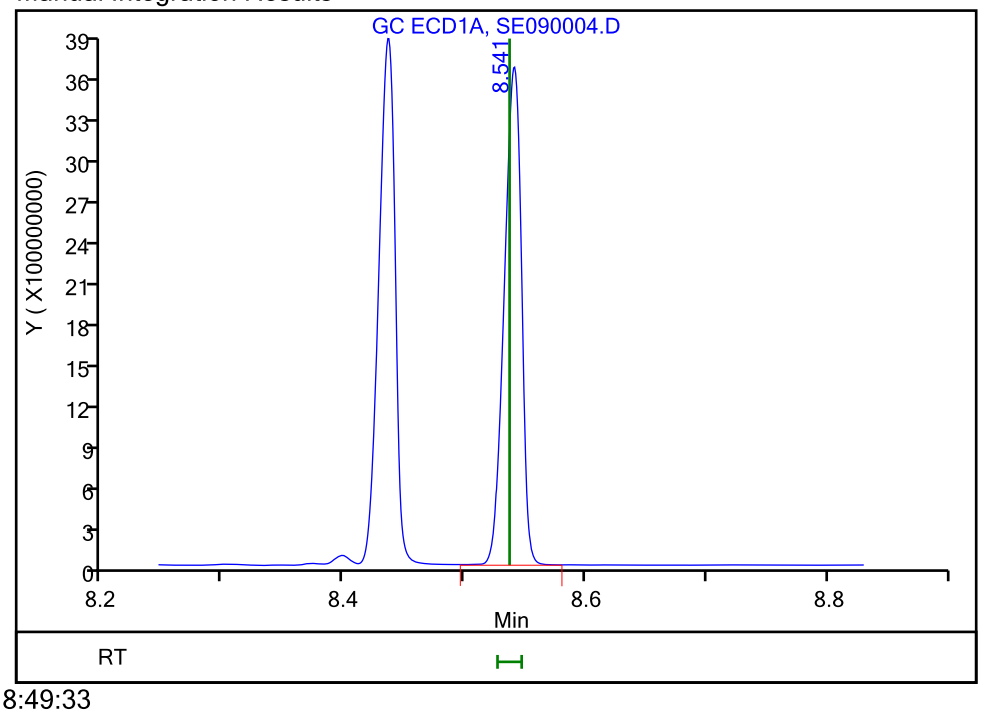
Not Detected
Expected RT: 8.54

Processing Integration Results



Manual Integration Results

RT: 8.54
Area: 3595185453
Amount: 1.267326
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:33
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

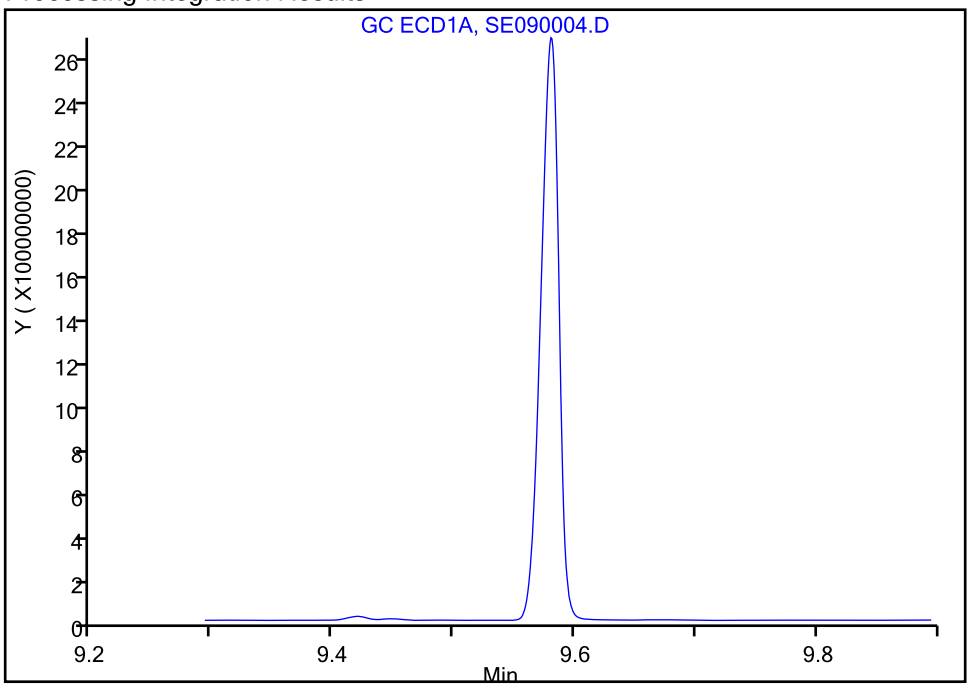
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

21 Acifluorfen, CAS: 50594-66-6

Signal: 1

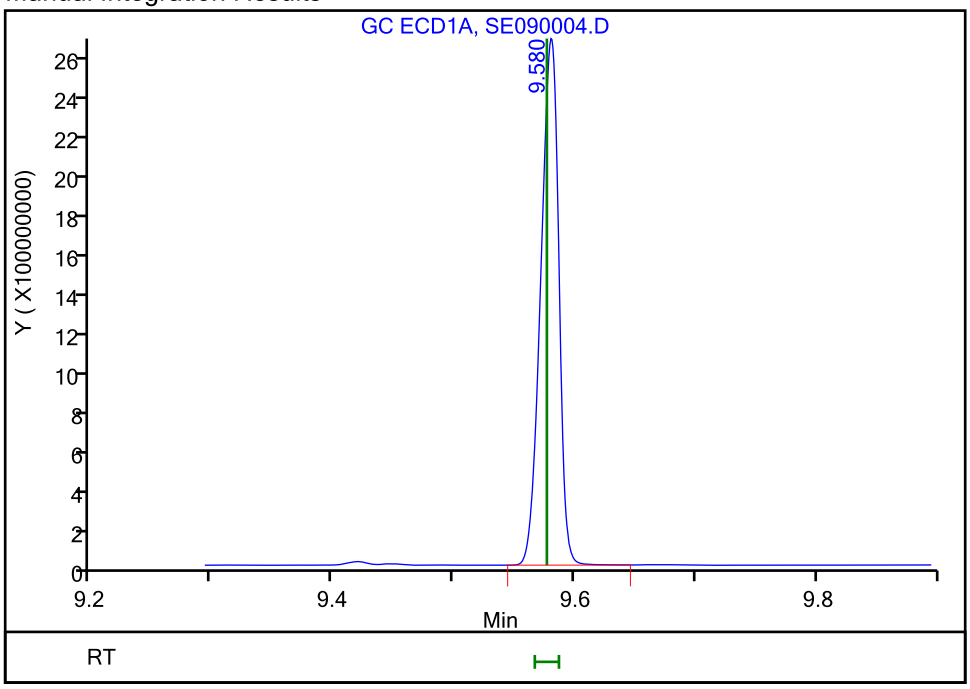
Not Detected
Expected RT: 9.58

Processing Integration Results



Manual Integration Results

RT: 9.58
Area: 2794380058
Amount: 1.373285
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:37
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-May-2018 18:19:23 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:20 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 18:52:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.492	2.491	0.001	240788645	0.5000	0.5017	
2	2.542	2.540	0.002	732221950	0.5000	0.5196	
						RPD = 3.50	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	47814176	NC	NC	
2	5.029	5.028	0.001	251719023	NC	NC	
						RPD = 2.18	
3 2,4,6-Trichlorophenol							
1	5.711	5.710	0.001	646877112	NC	NC	
2	5.703	5.700	0.003	2604837423	NC	NC	
						RPD = 1.58	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	161466175	0.5000	0.5222	
2	6.041	6.040	0.001	851491539	0.5000	0.5264	
						RPD = 0.81	
5 4-Nitrophenol							
1	6.172	6.173	-0.001	46516413	0.5000	0.4672	
2	6.425	6.426	-0.001	143473602	0.5000	0.4612	
						RPD = 1.30	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	99966364	0.5000	0.5063	
2	6.753	6.752	0.001	641182661	0.5000	0.5153	
						RPD = 1.76	
7 Dicamba							
1	6.641	6.642	-0.001	264745935	0.2500	0.2687	
2	6.835	6.833	0.002	1198198735	0.2500	0.2702	
						RPD = 0.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							a
1	6.791	6.789	0.002	31559204	50.0	48.7	a
2	6.882	6.880	0.002	187460762	50.0	49.7	
						RPD = 2.13	
9 MCPA							
1	6.919	6.916	0.003	41163701	50.0	48.5	
2	7.081	7.078	0.003	391405967	50.0	51.8	
						RPD = 6.53	
10 Dichlorprop							
1	7.101	7.102	-0.001	131268795	0.5000	0.5125	
2	7.224	7.223	0.001	619789858	0.5000	0.5063	
						RPD = 1.21	
11 2,4-D							
1	7.246	7.246	0.000	162558325	0.5000	0.5151	
2	7.443	7.443	0.000	776315154	0.5000	0.5318	
						RPD = 3.20	
12 Pentachlorophenol							
1	7.596	7.594	0.002	720360768	0.1250	0.1421	
2	7.640	7.637	0.003	2361098559	0.1250	0.1400	
						RPD = 1.52	
13 Silvex (2,4,5-TP)							
1	7.692	7.692	0.000	259138392	0.1250	0.1385	
2	7.776	7.774	0.002	943300131	0.1250	0.1406	
						RPD = 1.51	
14 Chloramben							
1	7.771	7.770	0.001	942129901	0.5000	0.5749	
2	8.083	8.081	0.002	3138504970	0.5000	0.5797	
						RPD = 0.82	
15 2,4,5-T							
1	7.847	7.848	-0.001	247745545	0.1250	0.1329	
2	8.008	8.008	0.000	877205524	0.1250	0.1408	
						RPD = 5.77	
16 2,4-DB							
1	8.090	8.091	-0.001	94816741	0.5000	0.5381	
2	8.222	8.222	0.000	447502886	0.5000	0.5098	
						RPD = 5.40	
17 Dinoseb							
1	8.145	8.144	0.001	621322249	0.5000	0.5615	
2	8.175	8.173	0.002	2012769159	0.5000	0.6135	
						RPD = 8.87	
18 Bentazon							
1	8.218	8.218	0.000	135146452	0.5000	0.5252	
2	8.579	8.578	0.001	402556641	0.5000	0.5407	
						RPD = 2.92	
19 Picloram							
1	8.435	8.433	0.002	1646590154	0.5000	0.6169	
2	8.916	8.913	0.003	5400334032	0.5000	0.6518	
						RPD = 5.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.539	8.537	0.002	1668353746	0.5000	0.5881	
2	8.696	8.692	0.004	5077033272	0.5000	0.5701	
						RPD = 3.12	
21 Acifluorfen							
1	9.578	9.577	0.001	1241223393	0.5000	0.6100	
2	9.716	9.710	0.006	4100306829	0.5000	0.5129	
						RPD = 17.30	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

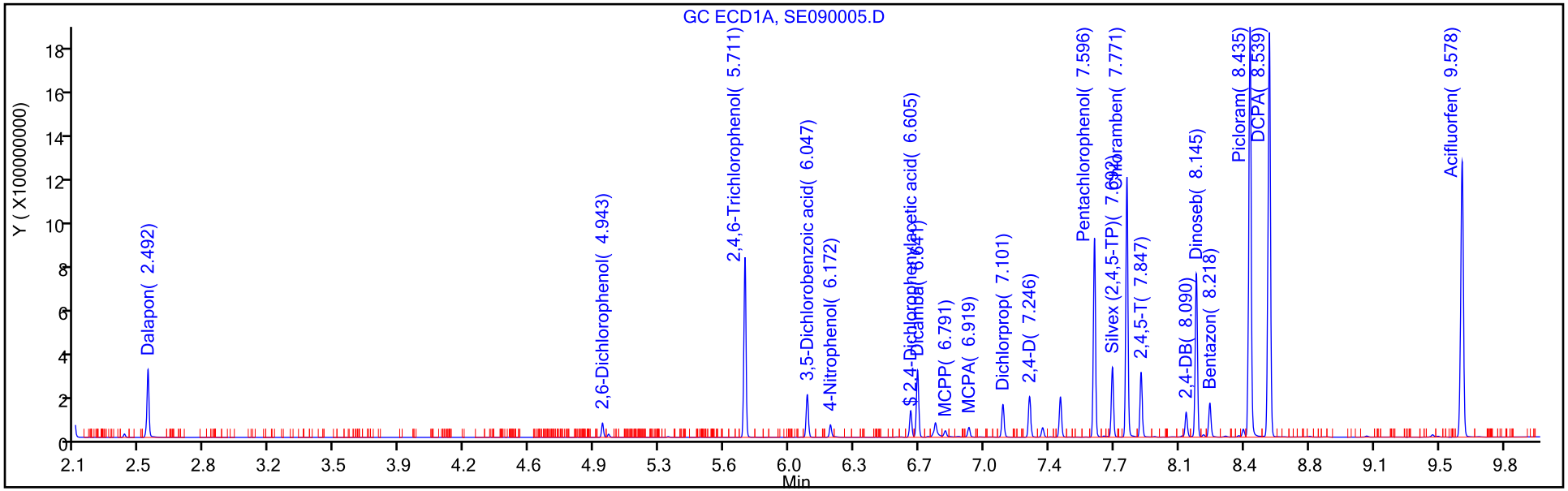
Report Date: 10-May-2018 10:32:23 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

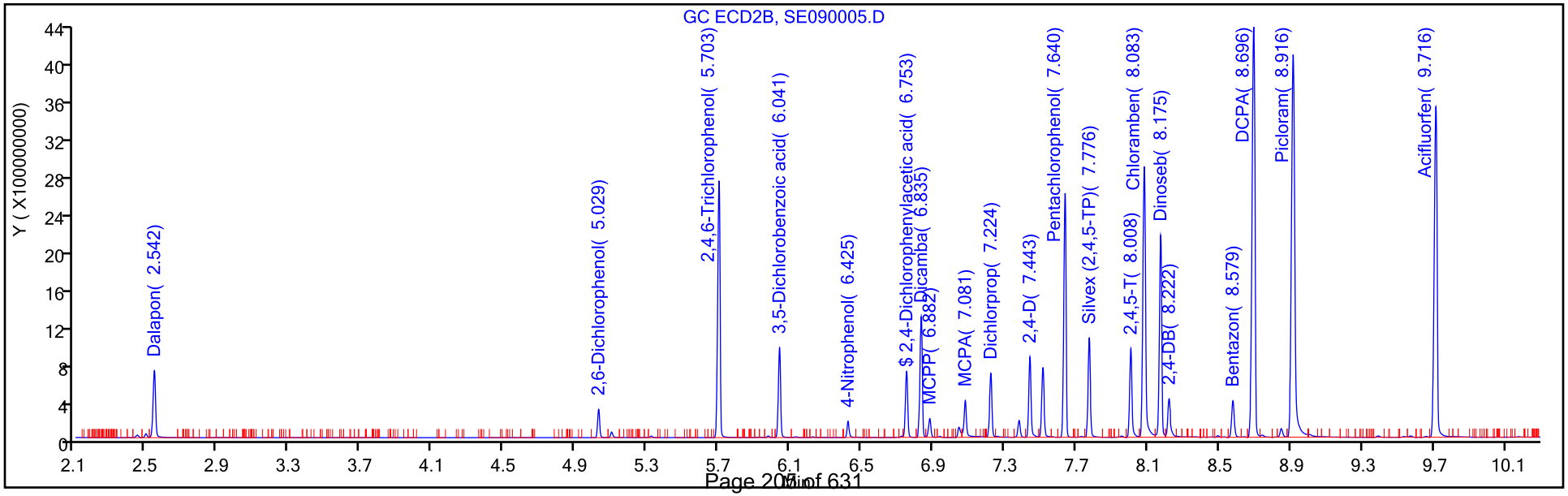
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Injection Date:	09-May-2018 18:19:23	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

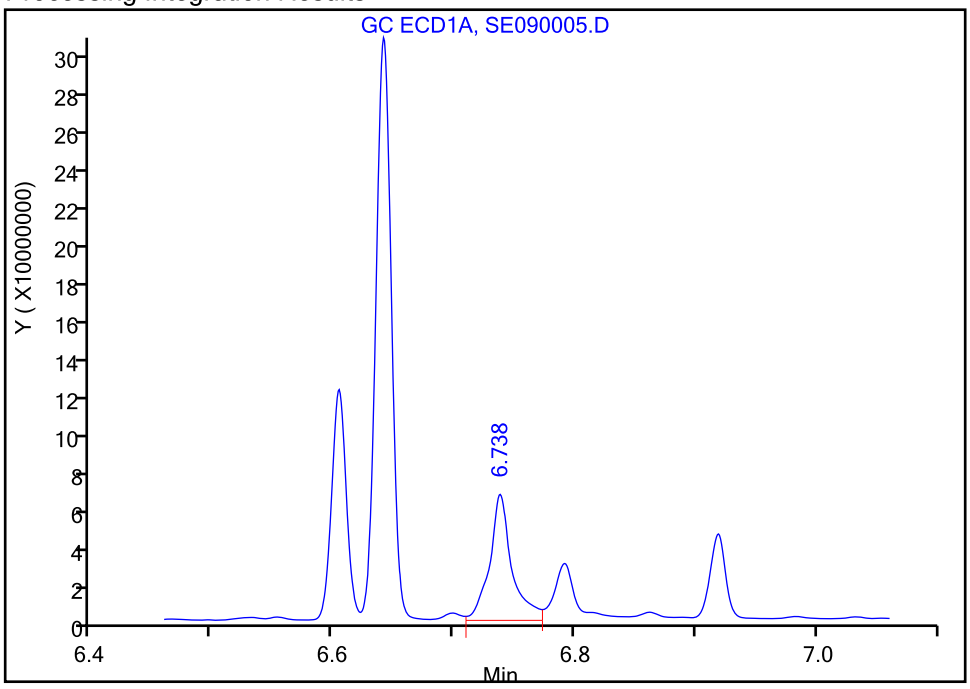
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Injection Date:	09-May-2018 18:19:23	Instrument ID:	CSGS		
Lims ID:	ic h7				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

8 MCPP, CAS: 93-65-2

Signal: 1

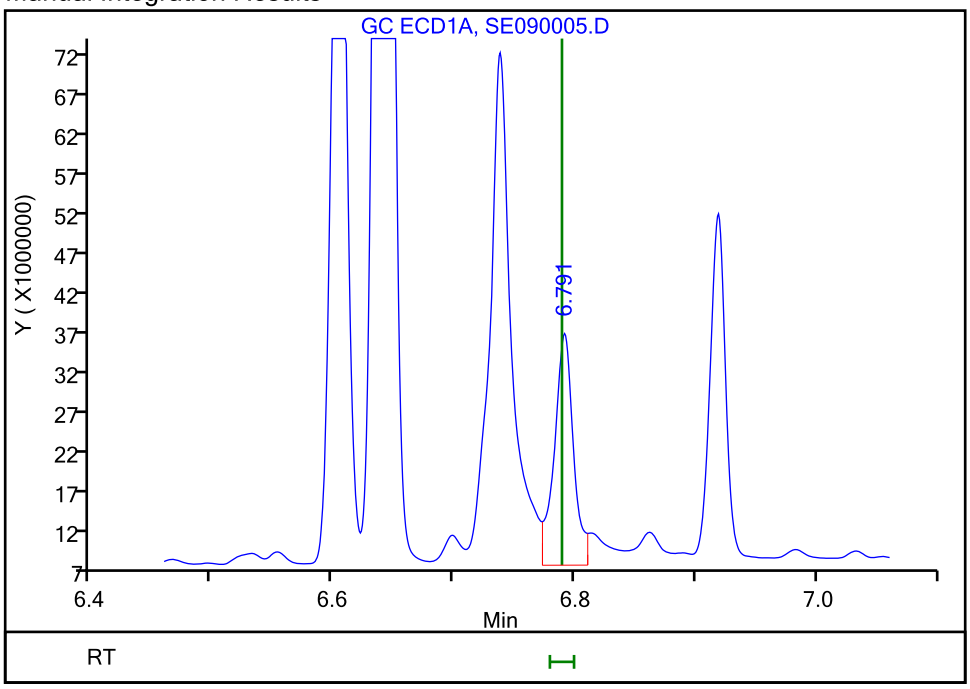
Processing Integration Results

RT: 6.74
Area: 81989520
Amount: 78.974488
Amount Units: ug/ml



Manual Integration Results

RT: 6.79
Area: 31559204
Amount: 48.653253
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 10:26:15
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-May-2018 18:39:00 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:31 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	117859465	0.2500	0.2433	
2	2.542	2.540	0.002	343706065	0.2500	0.2439	
						RPD = 0.25	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	23392908	NC	NC	
2	5.029	5.028	0.001	121382918	NC	NC	
						RPD = 0.73	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	300214321	NC	NC	
2	5.702	5.700	0.002	1233407049	NC	NC	
						RPD = 0.43	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	76558268	0.2500	0.2476	
2	6.041	6.040	0.001	402937011	0.2500	0.2491	
						RPD = 0.61	
5 4-Nitrophenol							
1	6.172	6.173	-0.001	24787202	0.2500	0.2490	
2	6.425	6.426	-0.001	70418420	0.2500	0.2264	
						RPD = 9.51	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	48018827	0.2500	0.2432	
2	6.752	6.752	0.000	306481984	0.2500	0.2463	
						RPD = 1.27	
7 Dicamba							
1	6.642	6.642	0.000	125123739	0.1250	0.1270	
2	6.834	6.833	0.001	564195778	0.1250	0.1272	
						RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.790	6.789	0.001	15798581	25.0	24.4	
2	6.881	6.880	0.001	95134406	25.0	24.7	
						RPD = 1.51	
9 MCPA							
1	6.917	6.916	0.001	20303334	25.0	23.8	
2	7.080	7.078	0.002	189250340	25.0	24.5	
						RPD = 2.63	
10 Dichlorprop							
1	7.101	7.102	-0.001	62746255	0.2500	0.2450	
2	7.224	7.223	0.001	290450649	0.2500	0.2373	
						RPD = 3.19	
11 2,4-D							
1	7.245	7.246	-0.001	77679142	0.2500	0.2461	
2	7.444	7.443	0.001	361394001	0.2500	0.2476	
						RPD = 0.58	
12 Pentachlorophenol							
1	7.595	7.594	0.001	331633513	0.0625	0.0654	
2	7.639	7.637	0.002	1120470146	0.0625	0.0664	
						RPD = 1.51	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	122984337	0.0625	0.0657	
2	7.775	7.774	0.001	436902458	0.0625	0.0651	
						RPD = 0.92	
14 Chloramben							
1	7.770	7.770	0.000	428728783	0.2500	0.2616	
2	8.083	8.081	0.002	1447513965	0.2500	0.2674	
						RPD = 2.16	
15 2,4,5-T							
1	7.848	7.848	0.000	118284366	0.0625	0.0634	
2	8.008	8.008	0.000	402466907	0.0625	0.0646	
						RPD = 1.79	
16 2,4-DB							
1	8.091	8.091	0.000	44656333	0.2500	0.2534	
2	8.223	8.222	0.001	212450773	0.2500	0.2420	
						RPD = 4.60	
17 Dinoseb							
1	8.144	8.144	0.000	291379006	0.2500	0.2633	
2	8.175	8.173	0.002	901988457	0.2500	0.2750	
						RPD = 4.33	
18 Bentazon							
1	8.218	8.218	0.000	64493999	0.2500	0.2506	
2	8.580	8.578	0.002	186627828	0.2500	0.2507	
						RPD = 0.02	
19 Picloram							
1	8.434	8.433	0.001	724514848	0.2500	0.2714	
2	8.916	8.913	0.003	2365516502	0.2500	0.2855	
						RPD = 5.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.539	8.537	0.002	762299063	0.2500	0.2687	
2	8.695	8.692	0.003	2416371573	0.2500	0.2713	
						RPD = 0.96	
21 Acifluorfen							
1	9.579	9.577	0.002	560772453	0.2500	0.2756	
2	9.714	9.710	0.004	1719149943	0.2500	0.2314	
						RPD = 17.41	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

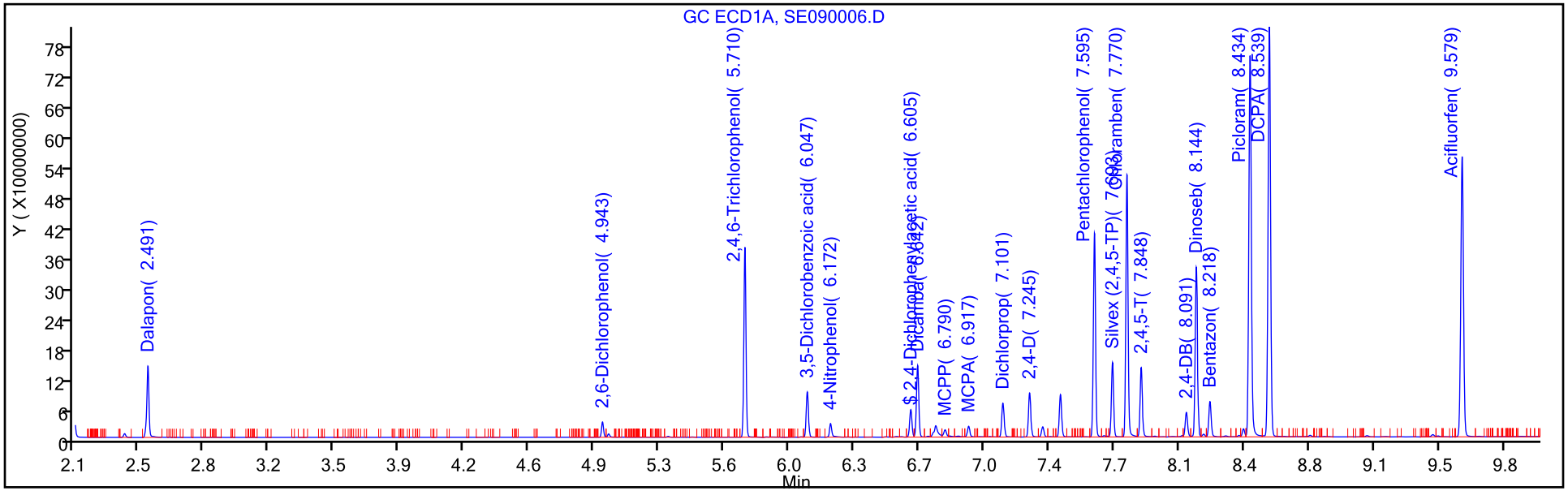
Report Date: 10-May-2018 10:32:33 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

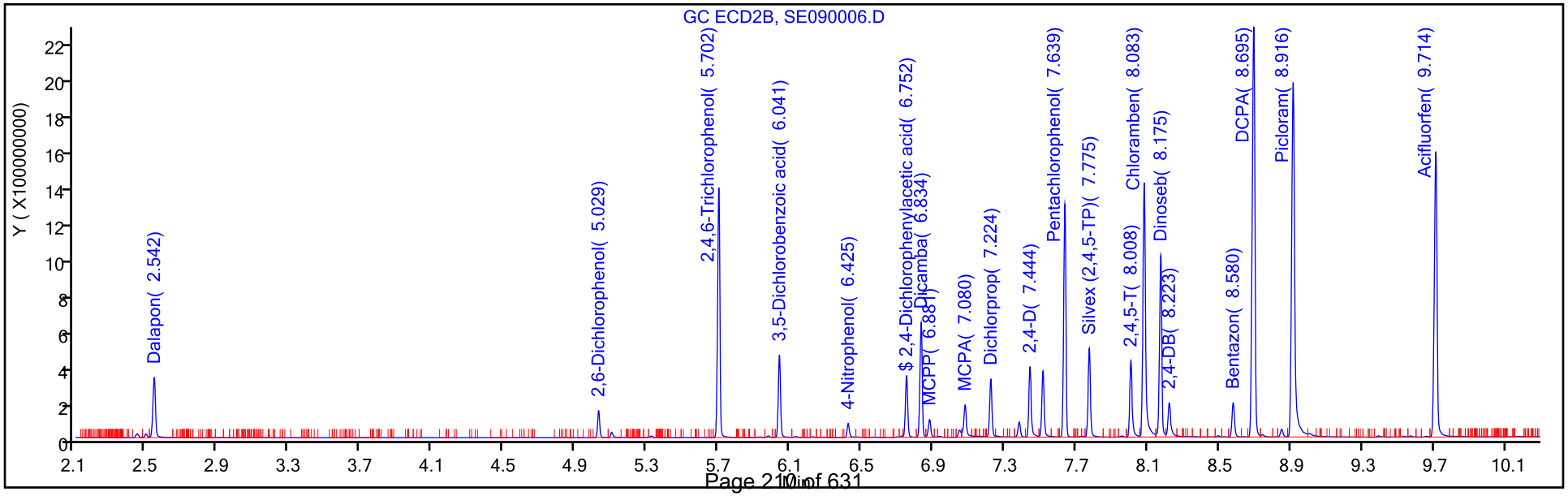
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090006.D

Injection Date:	09-May-2018 18:39:00	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-May-2018 18:58:34 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:41 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	85561651	0.1750	0.1754	
2	2.541	2.540	0.001	245675180	0.1750	0.1743	
						RPD = 0.60	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	16820806	NC	NC	
2	5.028	5.028	0.000	87350522	NC	NC	
						RPD = 0.81	
3 2,4,6-Trichlorophenol							
1	5.711	5.710	0.001	210985965	NC	NC	
2	5.702	5.700	0.002	868535448	NC	NC	
						RPD = 0.63	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	55316182	0.1750	0.1789	
2	6.040	6.040	0.000	285956578	0.1750	0.1768	
						RPD = 1.18	
5 4-Nitrophenol							
1	6.173	6.173	0.000	18148801	0.1750	0.1823	
2	6.426	6.426	0.000	50791322	0.1750	0.1633	
						RPD = 11.01	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	34610542	0.1750	0.1753	
2	6.753	6.752	0.001	217901405	0.1750	0.1751	
						RPD = 0.10	
7 Dicamba							
1	6.642	6.642	0.000	88963078	0.0875	0.0903	
2	6.833	6.833	0.000	399308905	0.0875	0.0900	
						RPD = 0.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.790	6.789	0.001	11735070	17.5	18.1	
2	6.881	6.880	0.001	70347241	17.5	18.0	
						RPD = 0.39	
9 MCPA							
1	6.917	6.916	0.001	15184702	17.5	17.8	
2	7.080	7.078	0.002	143685808	17.5	18.3	
						RPD = 2.96	
10 Dichlorprop							
1	7.103	7.102	0.001	45229626	0.1750	0.1766	
2	7.223	7.223	0.000	206211940	0.1750	0.1685	
						RPD = 4.70	
11 2,4-D							
1	7.246	7.246	0.000	55858354	0.1750	0.1770	
2	7.443	7.443	0.000	256797724	0.1750	0.1759	
						RPD = 0.61	
12 Pentachlorophenol							
1	7.595	7.594	0.001	232407815	0.0438	0.0459	
2	7.638	7.637	0.001	787462544	0.0438	0.0467	
						RPD = 1.80	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	86592112	0.0438	0.0463	
2	7.775	7.774	0.001	309540353	0.0438	0.0461	
						RPD = 0.30	
14 Chloramben							
1	7.770	7.770	0.000	300714561	0.1750	0.1835	
2	8.082	8.081	0.001	1017374760	0.1750	0.1879	
						RPD = 2.36	
15 2,4,5-T							
1	7.848	7.848	0.000	84308974	0.0438	0.0452	
2	8.008	8.008	0.000	281806659	0.0438	0.0452	
						RPD = 0.01	
16 2,4-DB							
1	8.091	8.091	0.000	31842206	0.1750	0.1807	
2	8.223	8.222	0.001	160878564	0.1750	0.1833	
						RPD = 1.41	
17 Dinoseb							
1	8.145	8.144	0.001	205511059	0.1750	0.1857	
2	8.175	8.173	0.002	624797611	0.1750	0.1905	
						RPD = 2.52	
18 Bentazon							
1	8.218	8.218	0.000	46220417	0.1750	0.1796	
2	8.580	8.578	0.002	132529059	0.1750	0.1780	
						RPD = 0.89	
19 Picloram							
1	8.434	8.433	0.001	504113503	0.1750	0.1889	
2	8.915	8.913	0.002	1614105282	0.1750	0.1948	
						RPD = 3.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	532179764	0.1750	0.1876	
2	8.694	8.692	0.002	1692976152	0.1750	0.1901	
						RPD = 1.32	
21 Acifluorfen							
1	9.578	9.577	0.001	389652410	0.1750	0.1915	
2	9.713	9.710	0.003	1145964479	0.1750	0.1637	
						RPD = 15.65	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

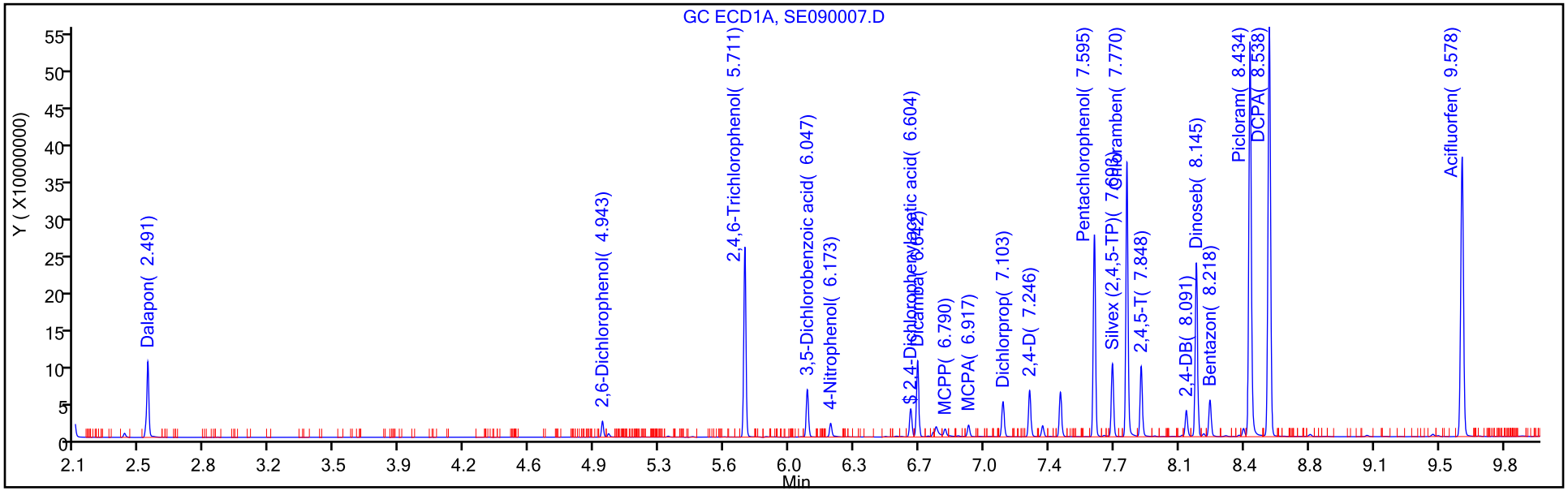
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TestAmerica Savannah

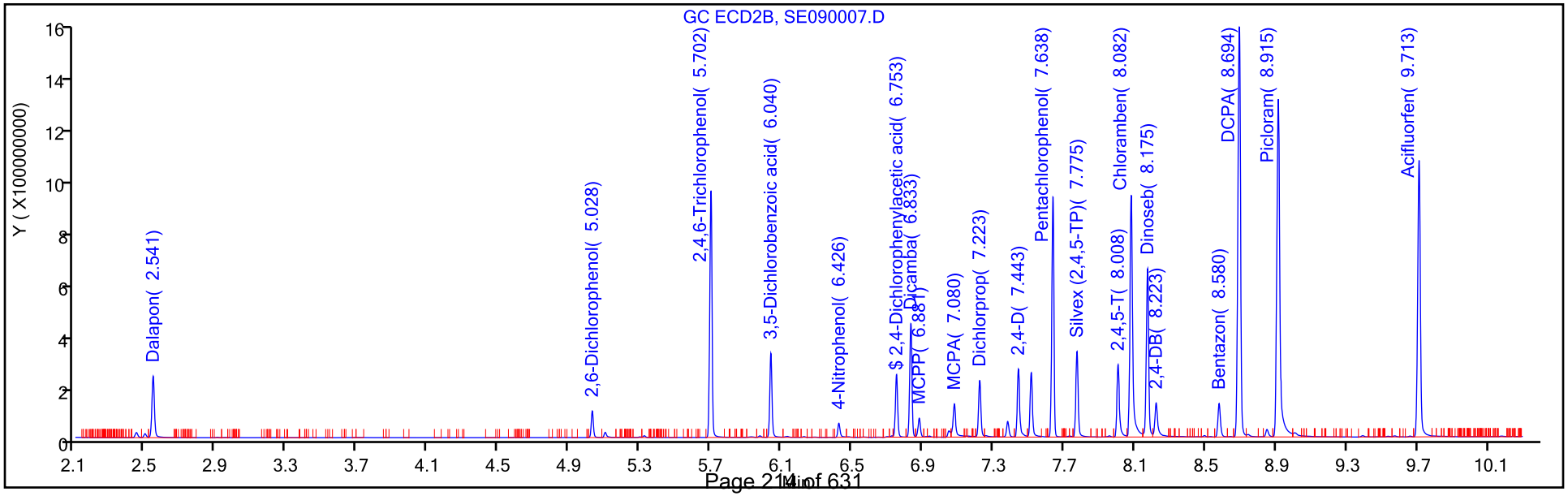
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Injection Date:	09-May-2018 18:58:34	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-May-2018 19:18:17 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:52 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	48692714	0.1000	0.0979	
2	2.540	2.540	0.000	134282444	0.1000	0.0953	
						RPD = 2.67	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	9632391	NC	NC	
2	5.028	5.028	0.000	49153025	NC	NC	
						RPD = 0.94	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	113343196	NC	NC	
2	5.700	5.700	0.000	470539202	NC	NC	
						RPD = 1.47	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	30671888	0.1000	0.0992	
2	6.040	6.040	0.000	157142720	0.1000	0.0972	
						RPD = 2.08	
5 4-Nitrophenol							
1	6.173	6.173	0.000	10063608	0.1000	0.1011	
2	6.426	6.426	0.000	28701977	0.1000	0.0923	
						RPD = 9.12	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	19396979	0.1000	0.0982	
2	6.752	6.752	0.000	121598006	0.1000	0.0977	
						RPD = 0.53	
7 Dicamba							
1	6.642	6.642	0.000	48666881	0.0500	0.0494	
2	6.833	6.833	0.000	218858895	0.0500	0.0494	
						RPD = 0.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	6799750	10.0	10.5	
2	6.880	6.880	0.000	42804626	10.0	10.6	
						RPD = 0.84	
9 MCPA							
1	6.916	6.916	0.000	8784914	10.0	10.2	
2	7.078	7.078	0.000	87635867	10.0	10.8	
						RPD = 5.05	
10 Dichlorprop							
1	7.102	7.102	0.000	25183834	0.1000	0.0983	
2	7.223	7.223	0.000	116304622	0.1000	0.0950	
						RPD = 3.42	
11 2,4-D							
1	7.246	7.246	0.000	31351468	0.1000	0.0993	
2	7.443	7.443	0.000	141286640	0.1000	0.0968	
						RPD = 2.60	
12 Pentachlorophenol							
1	7.594	7.594	0.000	124451497	0.0250	0.0246	
2	7.637	7.637	0.000	426702551	0.0250	0.0253	
						RPD = 2.98	
13 Silvex (2,4,5-TP)							
1	7.692	7.692	0.000	46478268	0.0250	0.0248	
2	7.774	7.774	0.000	165575880	0.0250	0.0247	
						RPD = 0.64	
14 Chloramben							
1	7.770	7.770	0.000	159803441	0.1000	0.0975	
2	8.081	8.081	0.000	534232051	0.1000	0.0987	
						RPD = 1.17	
15 2,4,5-T							
1	7.848	7.848	0.000	45407307	0.0250	0.0244	
2	8.008	8.008	0.000	150219829	0.0250	0.0241	
						RPD = 1.02	
16 2,4-DB							
1	8.091	8.091	0.000	17140092	0.1000	0.0973	
2	8.222	8.222	0.000	89229518	0.1000	0.1017	
						RPD = 4.40	
17 Dinoseb							
1	8.144	8.144	0.000	108913733	0.1000	0.0984	
2	8.173	8.173	0.000	319720996	0.1000	0.0975	
						RPD = 0.98	
18 Bentazon							
1	8.218	8.218	0.000	25386610	0.1000	0.0986	
2	8.578	8.578	0.000	72241071	0.1000	0.0970	
						RPD = 1.65	
19 Picloram							
1	8.433	8.433	0.000	265884971	0.1000	0.0996	
2	8.913	8.913	0.000	817209657	0.1000	0.0986	
						RPD = 1.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.537	8.537	0.000	286279694	0.1000	0.1009	
2	8.692	8.692	0.000	903362678	0.1000	0.1014	
						RPD = 0.51	
21 Acifluorfen							
1	9.577	9.577	0.000	204134092	0.1000	0.1003	
2	9.710	9.710	0.000	561519505	0.1000	0.0946	
						RPD = 5.86	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

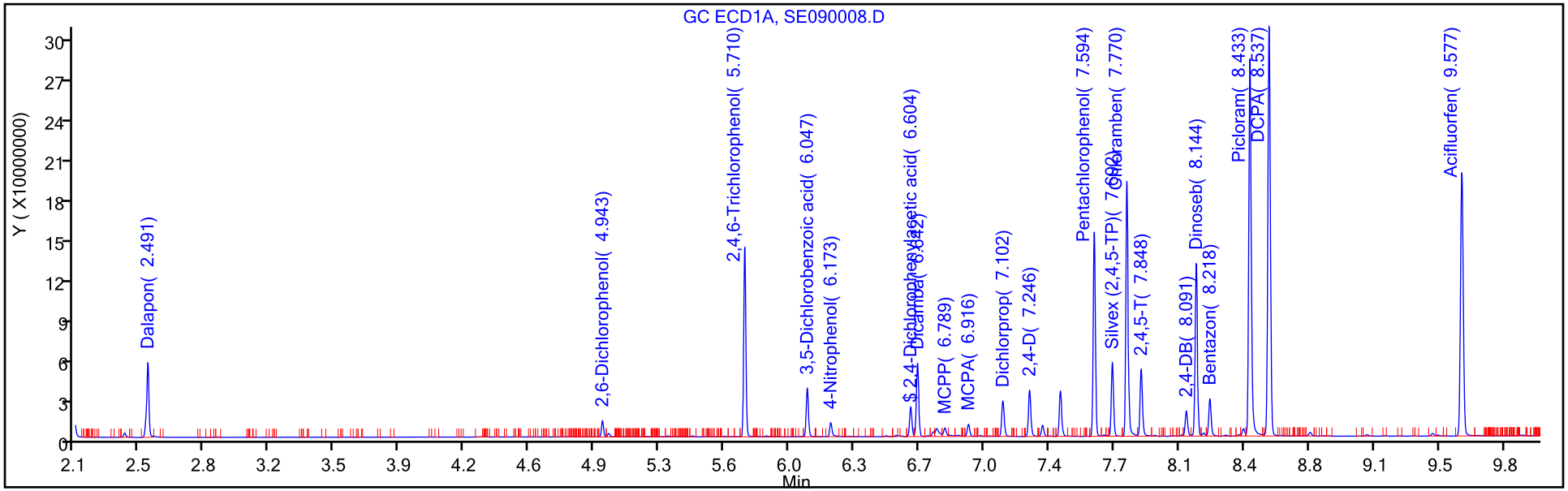
Report Date: 10-May-2018 10:32:55 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

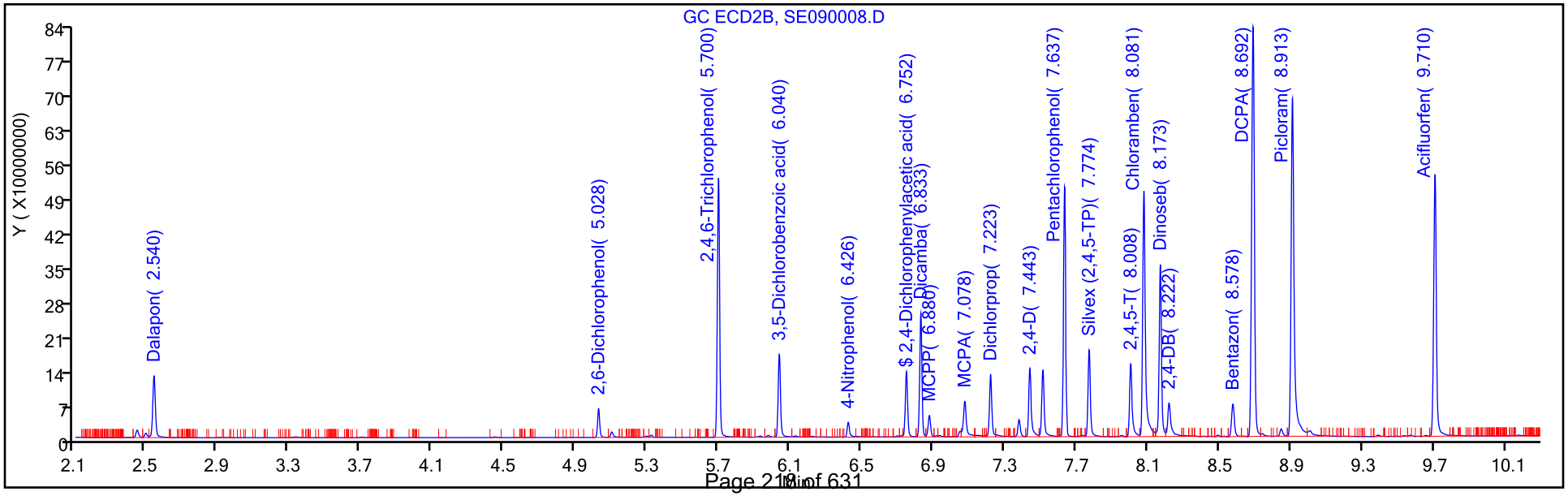
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090008.D

Injection Date:	09-May-2018 19:18:17	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-May-2018 19:37:54 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:33:11 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	26486244	0.0500	0.0512	
2	2.541	2.540	0.001	68276472	0.0500	0.0484	
						RPD = 5.48	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	5042831	NC	NC	
2	5.028	5.028	0.000	25694947	NC	NC	
						RPD = 1.09	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	53550343	NC	NC	
2	5.700	5.700	0.000	226578608	NC	NC	
						RPD = 3.37	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	15124840	0.0500	0.0489	
2	6.041	6.040	0.001	78811020	0.0500	0.0487	
						RPD = 0.39	
5 4-Nitrophenol							
1	6.174	6.173	0.001	5013484	0.0500	0.0504	
2	6.428	6.426	0.002	15379120	0.0500	0.0494	
						RPD = 1.84	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	9824392	0.0500	0.0498	
2	6.753	6.752	0.001	61074468	0.0500	0.0491	
						RPD = 1.36	
7 Dicamba							
1	6.641	6.642	-0.001	23742571	0.0250	0.0241	
2	6.833	6.833	0.000	106662608	0.0250	0.0241	
						RPD = 0.17	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.788	6.789	-0.001	3508507	5.00	5.41	
2	6.881	6.880	0.001	24151794	5.00	5.53	
						RPD = 2.14	
9 MCPA							
1	6.916	6.916	0.000	4645587	5.00	5.36	
2	7.078	7.078	0.000	48125167	5.00	5.44	
						RPD = 1.65	
10 Dichlorprop							
1	7.102	7.102	0.000	12671217	0.0500	0.0495	
2	7.223	7.223	0.000	58567059	0.0500	0.0478	
						RPD = 3.33	
11 2,4-D							
1	7.247	7.246	0.001	15677896	0.0500	0.0497	
2	7.443	7.443	0.000	69419021	0.0500	0.0476	
						RPD = 4.36	
12 Pentachlorophenol							
1	7.595	7.594	0.001	58438516	0.0125	0.0115	
2	7.637	7.637	0.000	203051099	0.0125	0.0120	
						RPD = 4.31	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	21972097	0.0125	0.0117	
2	7.774	7.774	0.000	78461272	0.0125	0.0117	
						RPD = 0.40	
14 Chloramben							
1	7.771	7.770	0.001	74407541	0.0500	0.0454	
2	8.082	8.081	0.001	253737337	0.0500	0.0469	
						RPD = 3.16	
15 2,4,5-T							
1	7.848	7.848	0.000	22227236	0.0125	0.0119	
2	8.008	8.008	0.000	71548434	0.0125	0.0115	
						RPD = 3.76	
16 2,4-DB							
1	8.092	8.091	0.001	8499475	0.0500	0.0482	
2	8.223	8.222	0.001	45093077	0.0500	0.0514	
						RPD = 6.30	
17 Dinoseb							
1	8.145	8.144	0.001	50192922	0.0500	0.0454	
2	8.173	8.173	0.000	141523650	0.0500	0.0431	
						RPD = 5.01	
18 Bentazon							
1	8.218	8.218	0.000	12591827	0.0500	0.0489	
2	8.580	8.578	0.002	35628390	0.0500	0.0479	
						RPD = 2.22	
19 Picloram							
1	8.435	8.433	0.002	124854571	0.0500	0.0468	
2	8.913	8.913	0.000	374069812	0.0500	0.0451	
						RPD = 3.55	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	135870891	0.0500	0.0479	
2	8.693	8.692	0.001	429416896	0.0500	0.0482	
						RPD = 0.67	
21 Acifluorfen							
1	9.578	9.577	0.001	92428968	0.0500	0.0454	
2	9.712	9.710	0.002	237117322	0.0500	0.0563	
						RPD = 21.33	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

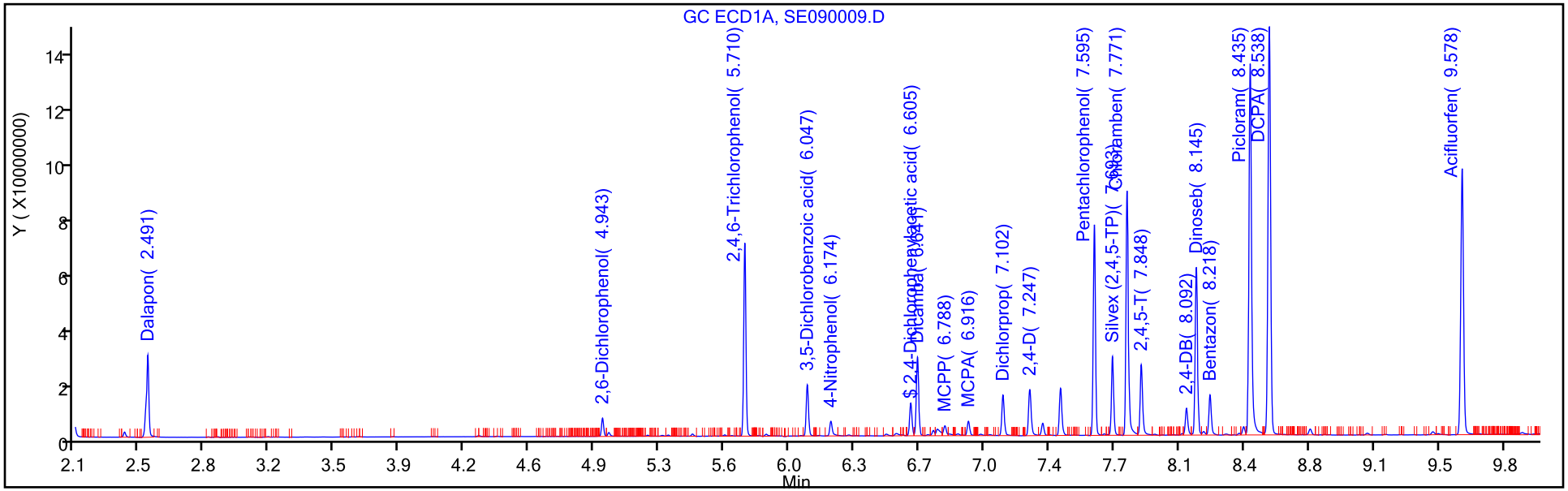
Report Date: 10-May-2018 10:33:15 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

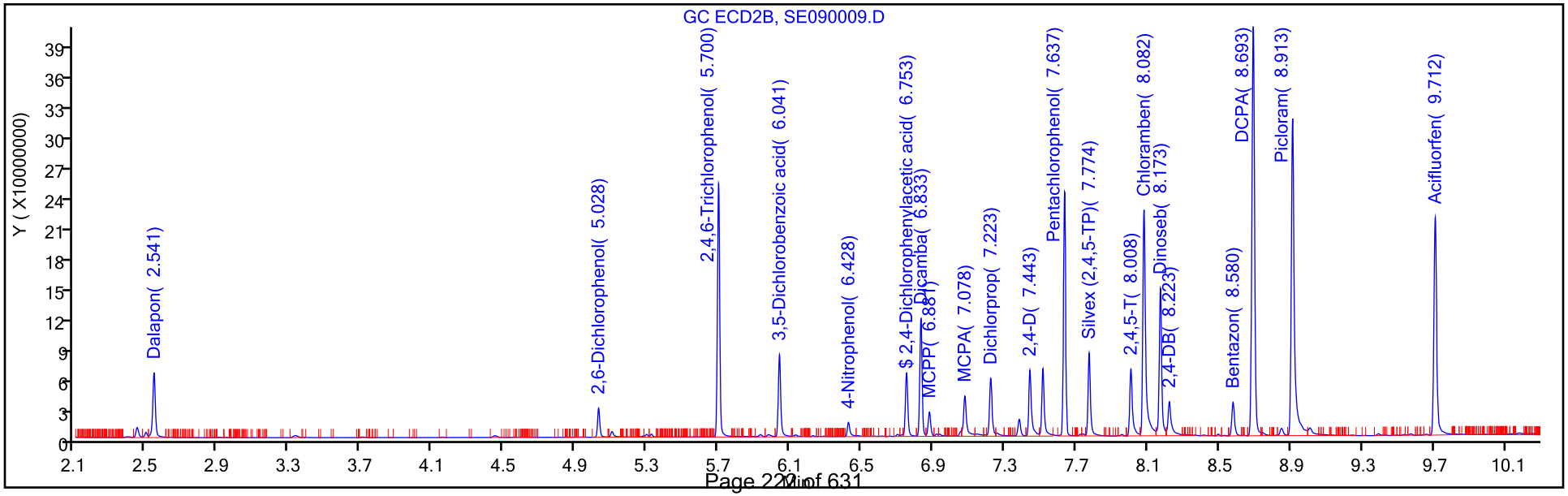
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090009.D

Injection Date:	09-May-2018 19:37:54	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-May-2018 19:57:37 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:33:30 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.490	2.491	-0.001	14657660	0.0250	0.0263	
2	2.540	2.540	0.000	34680649	0.0250	0.0246	
						RPD = 6.70	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	2643396	NC	NC	
2	5.029	5.028	0.001	13247063	NC	NC	
						RPD = 2.75	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	25414505	NC	NC	
2	5.700	5.700	0.000	107319552	NC	NC	
						RPD = 3.17	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	7620330	0.0250	0.0246	
2	6.041	6.040	0.001	38364540	0.0250	0.0237	
						RPD = 3.83	
5 4-Nitrophenol							
1	6.175	6.173	0.002	2605390	0.0250	0.0262	
2	6.427	6.426	0.001	8778298	0.0250	0.0282	
						RPD = 7.54	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	4981736	0.0250	0.0252	
2	6.752	6.752	0.000	30704507	0.0250	0.0247	
						RPD = 2.22	
7 Dicamba							
1	6.642	6.642	0.000	11616649	0.0125	0.0118	
2	6.832	6.833	-0.001	51691784	0.0125	0.0117	
						RPD = 1.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	1745483	2.50	2.69	
2	6.880	6.880	0.000	13914604	2.50	2.76	
						RPD = 2.42	
9 MCPA							
1	6.917	6.916	0.001	2425365	2.50	2.73	
2	7.078	7.078	0.000	28551579	2.50	2.80	
						RPD = 2.54	
10 Dichlorprop							
1	7.103	7.102	0.001	6423668	0.0250	0.0251	
2	7.223	7.223	0.000	31462180	0.0250	0.0257	
						RPD = 2.46	
11 2,4-D							
1	7.247	7.246	0.001	7737754	0.0250	0.0245	
2	7.442	7.443	-0.001	34715108	0.0250	0.0238	
						RPD = 3.05	
12 Pentachlorophenol							
1	7.595	7.594	0.001	27542680	0.006250	0.005435	
2	7.637	7.637	0.000	94352178	0.006250	0.005595	
						RPD = 2.89	
13 Silvex (2,4,5-TP)							
1	7.692	7.692	0.000	10459084	0.006250	0.005589	
2	7.774	7.774	0.000	37061107	0.006250	0.005524	
						RPD = 1.18	
14 Chloramben							
1	7.772	7.770	0.002	35018105	0.0250	0.0214	
2	8.082	8.081	0.001	120073751	0.0250	0.0222	
						RPD = 3.71	
15 2,4,5-T							
1	7.849	7.848	0.001	10974501	0.006250	0.005886	
2	8.007	8.008	-0.001	33976230	0.006250	0.005452	
						RPD = 7.65	
16 2,4-DB							
1	8.092	8.091	0.001	4239618	0.0250	0.0241	
2	8.223	8.222	0.001	22663618	0.0250	0.0258	
						RPD = 7.05	
17 Dinoseb							
1	8.145	8.144	0.001	24507489	0.0250	0.0221	
2	8.173	8.173	0.000	66394703	0.0250	0.0202	
						RPD = 9.00	
18 Bentazon							
1	8.219	8.218	0.001	6315524	0.0250	0.0245	
2	8.580	8.578	0.002	17606131	0.0250	0.0236	
						RPD = 3.71	
19 Picloram							
1	8.436	8.433	0.003	59686028	0.0250	0.0224	
2	8.913	8.913	0.000	171088600	0.0250	0.0206	
						RPD = 7.97	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	64463537	0.0250	0.0227	
2	8.692	8.692	0.000	202718580	0.0250	0.0228	
						RPD = 0.17	
21 Acifluorfen							
1	9.578	9.577	0.001	45279726	0.0250	0.0223	
2	9.711	9.710	0.001	108783467	0.0250	0.0411	
						RPD = 59.50	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

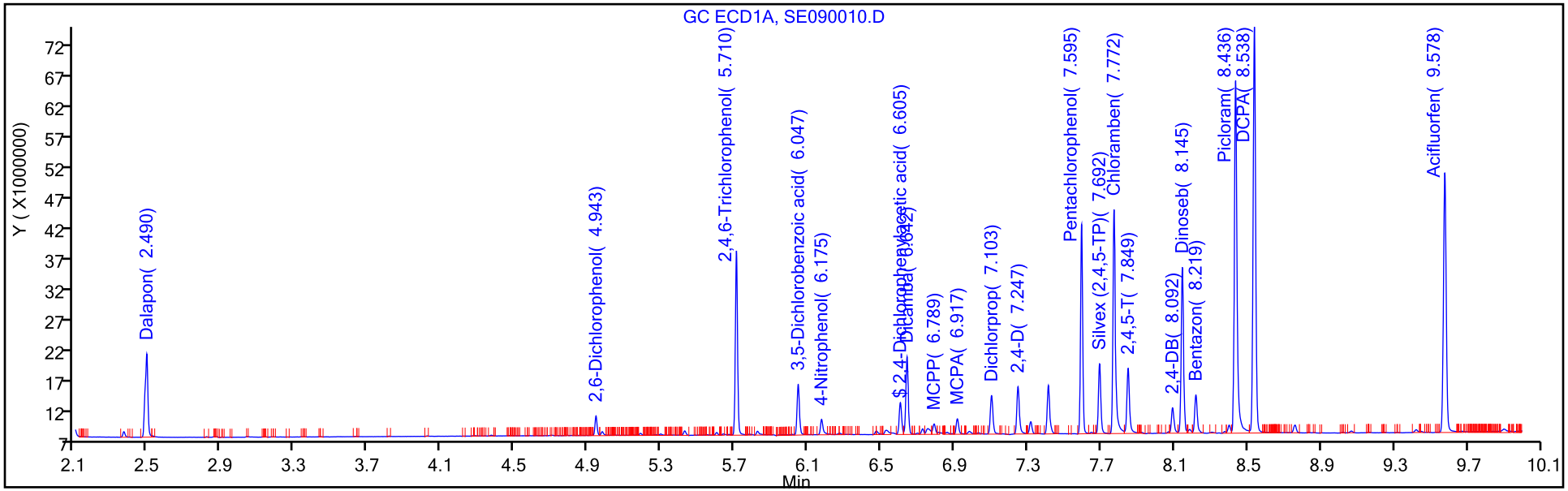
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TestAmerica Savannah

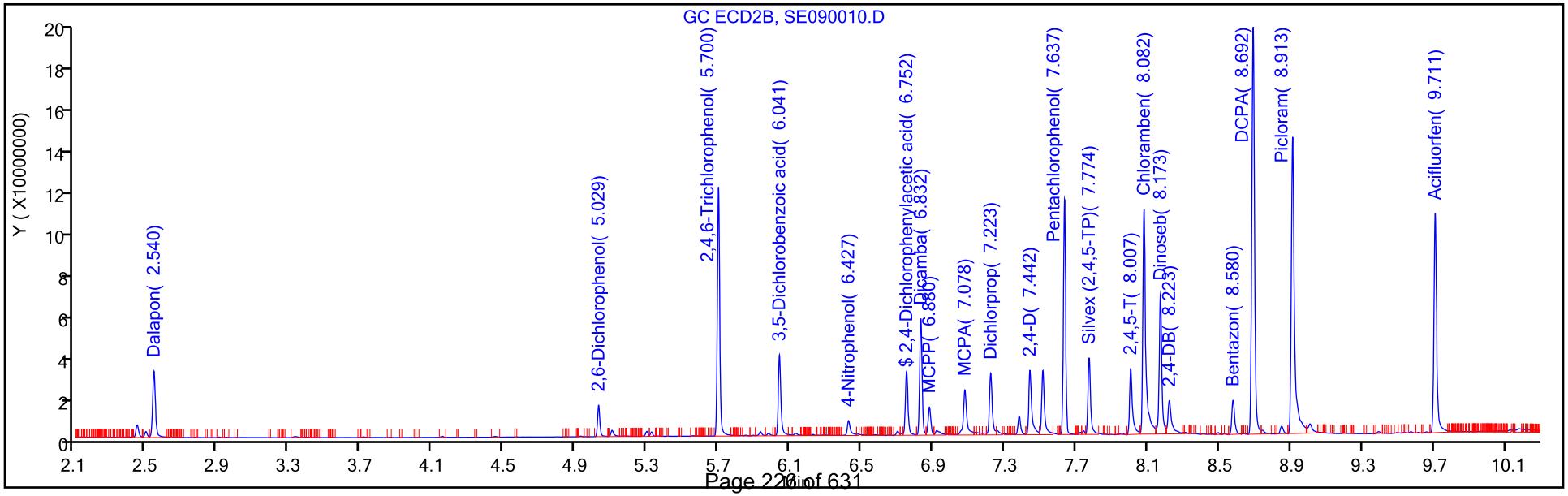
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Injection Date:	09-May-2018 19:57:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-May-2018 20:17:14 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:33:50 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.489	2.491	-0.002	6790041	0.0100	0.009774	
2	2.539	2.540	-0.001	14490384	0.0100	0.0103	
						RPD = 5.07	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	1126471	NC	NC	
2	5.029	5.028	0.001	5671182	NC	NC	
						RPD = 2.29	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	9125808	NC	NC	
2	5.699	5.700	-0.001	39546213	NC	NC	
						RPD = 5.76	
4 3,5-Dichlorobenzoic acid							
1	6.048	6.047	0.001	2944716	0.0100	0.009523	
2	6.042	6.040	0.002	15640455	0.0100	0.009670	
						RPD = 1.52	
5 4-Nitrophenol							
1	6.177	6.173	0.004	1040738	0.0100	0.0105	
2	6.429	6.426	0.003	3984898	0.0100	0.0128	
						RPD = 20.26	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	2000718	0.0100	0.0101	
2	6.754	6.752	0.002	12141554	0.0100	0.009758	
						RPD = 3.77	
7 Dicamba							
1	6.641	6.642	-0.001	4372331	0.005000	0.004437	
2	6.834	6.833	0.001	19774183	0.005000	0.004459	
						RPD = 0.50	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.790	6.789	0.001	517455	1.00	0.7977	
2	6.882	6.880	0.002	6429640	1.00	0.7323	
						RPD = 8.55	
9 MCPA							
1	6.917	6.916	0.001	913431	1.00	0.9482	
2	7.081	7.078	0.003	12826943	1.00	0.6828	
						RPD = 32.55	
10 Dichlorprop							
1	7.104	7.102	0.002	2539480	0.0100	0.0099	
2	7.224	7.223	0.001	13374924	0.0100	0.0109	
						RPD = 9.72	
11 2,4-D							
1	7.248	7.246	0.002	3047545	0.0100	0.009656	
2	7.445	7.443	0.002	13933080	0.0100	0.009544	
						RPD = 1.16	
12 Pentachlorophenol							
1	7.595	7.594	0.001	9895451	0.002500	0.001953	
2	7.638	7.637	0.001	33742162	0.002500	0.002001	
						RPD = 2.43	
13 Silvex (2,4,5-TP)							
1	7.694	7.692	0.002	3859632	0.002500	0.002063	
2	7.776	7.774	0.002	13743986	0.002500	0.002049	
						RPD = 0.68	
14 Chloramben							
1	7.772	7.770	0.002	12786212	0.0100	0.007803	
2	8.083	8.081	0.002	43902837	0.0100	0.008109	
						RPD = 3.84	
15 2,4,5-T							
1	7.849	7.848	0.001	4426368	0.002500	0.002374	
2	8.009	8.008	0.001	13763803	0.002500	0.002209	
						RPD = 7.22	
16 2,4-DB							
1	8.093	8.091	0.002	1551068	0.0100	0.008803	
2	8.225	8.222	0.003	8072867	0.0100	0.009197	
						RPD = 4.38	
17 Dinoseb							
1	8.145	8.144	0.001	8830536	0.0100	0.007980	
2	8.174	8.173	0.001	23228618	0.0100	0.007081	
						RPD = 11.94	
18 Bentazon							
1	8.219	8.218	0.001	2372651	0.0100	0.009220	
2	8.582	8.578	0.004	6834492	0.0100	0.009180	
						RPD = 0.43	
19 Picloram							
1	8.436	8.433	0.003	20683643	0.0100	0.007749	
2	8.914	8.913	0.001	60165899	0.0100	0.007261	
						RPD = 6.50	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.539	8.537	0.002	22721047	0.0100	0.008009	
2	8.694	8.692	0.002	71194571	0.0100	0.007994	
						RPD = 0.19	
21 Acifluorfen							
1	9.579	9.577	0.002	15904730	0.0100	0.007816	
2	9.714	9.710	0.004	36049429	0.0100	0.0325	
						RPD = 122.46	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

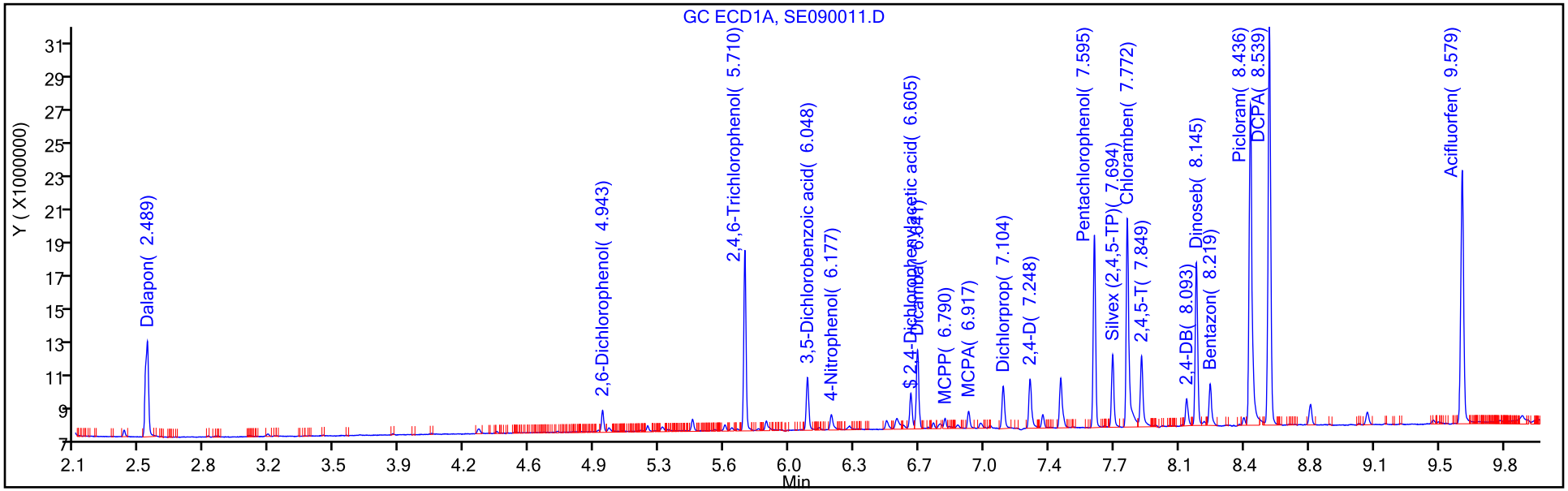
Report Date: 10-May-2018 10:33:54 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

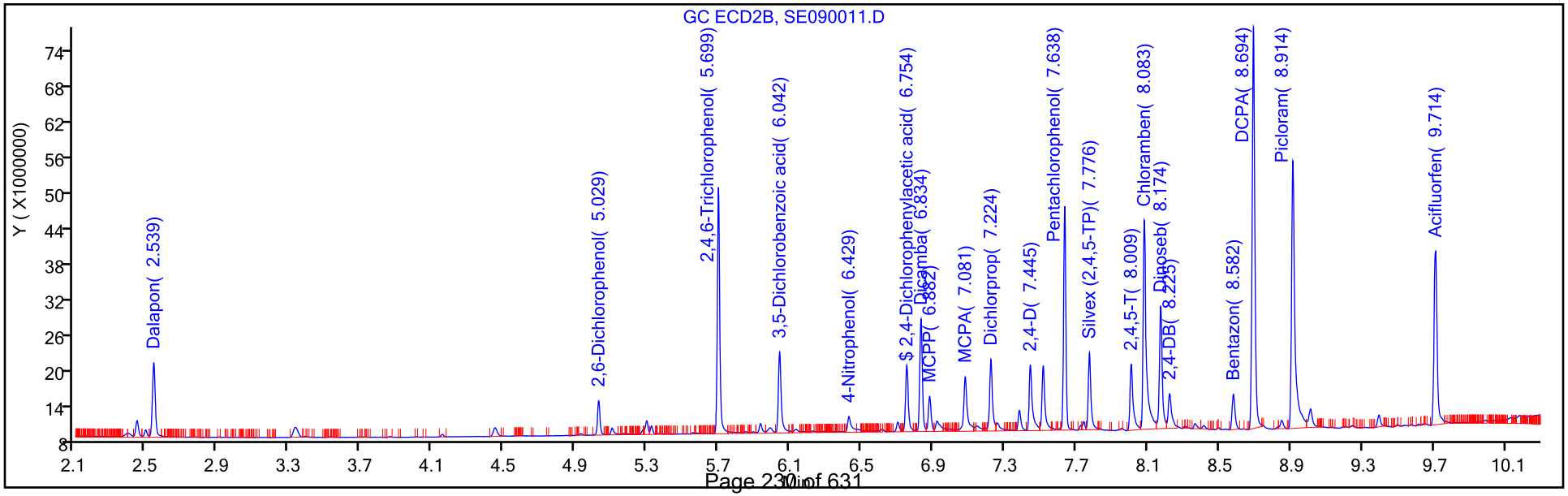
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Injection Date:	09-May-2018 20:17:14	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Calibration / Dalapon

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

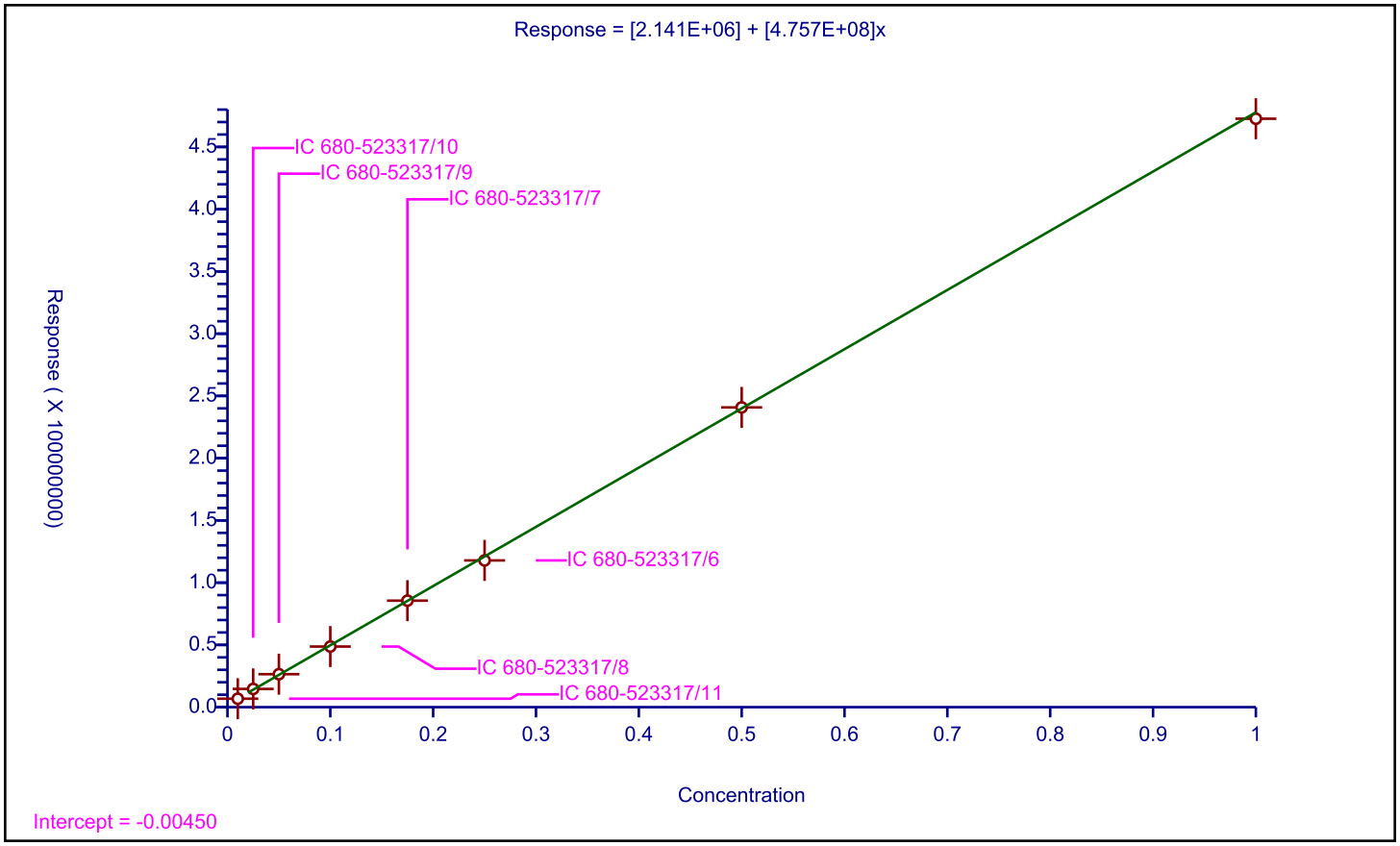
Curve Coefficients

Intercept:	2.141E+06
Slope:	4.757E+08

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	6790041.0			679004100.0	Y
2	IC 680-523317/10	0.025	14657660.0			586306400.0	Y
3	IC 680-523317/9	0.05	26486244.0			529724880.0	Y
4	IC 680-523317/8	0.1	48692714.0			486927140.0	Y
5	IC 680-523317/7	0.175	85561651.0			488923720.0	Y
6	IC 680-523317/6	0.25	117859465.0			471437860.0	Y
7	IC 680-523317/5	0.5	240788645.0			481577290.0	Y
8	IC 680-523317/4	1.0	472686723.0			472686723.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

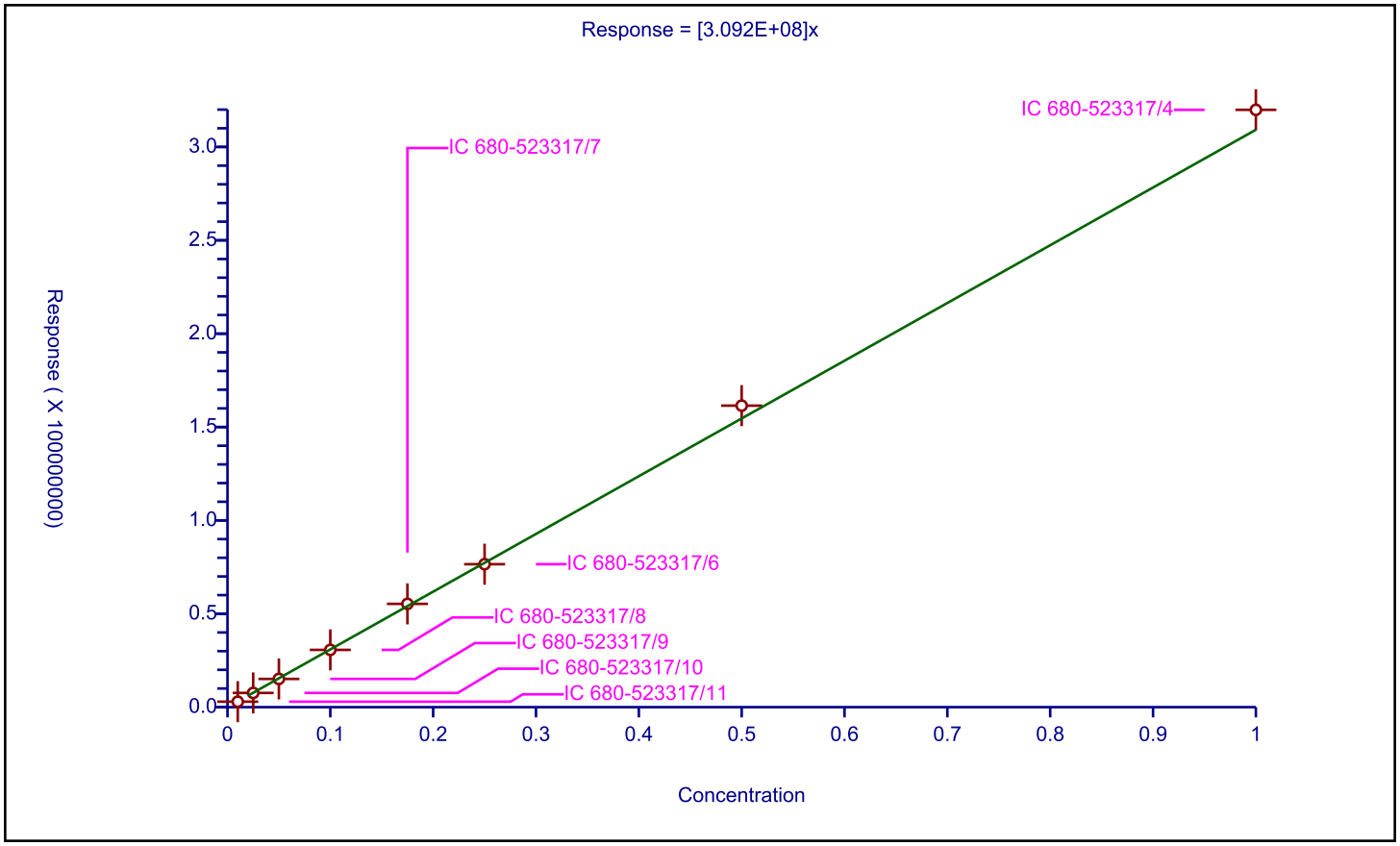
Curve Coefficients

Intercept:	0
Slope:	3.092E+08

Error Coefficients

Standard Error:	4830000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	2944716.0			294471600.0	Y
2	IC 680-523317/10	0.025	7620330.0			304813200.0	Y
3	IC 680-523317/9	0.05	15124840.0			302496800.0	Y
4	IC 680-523317/8	0.1	30671888.0			306718880.0	Y
5	IC 680-523317/7	0.175	55316182.0			316092468.571429	Y
6	IC 680-523317/6	0.25	76558268.0			306233072.0	Y
7	IC 680-523317/5	0.5	161466175.0			322932350.0	Y
8	IC 680-523317/4	1.0	319887544.0			319887544.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

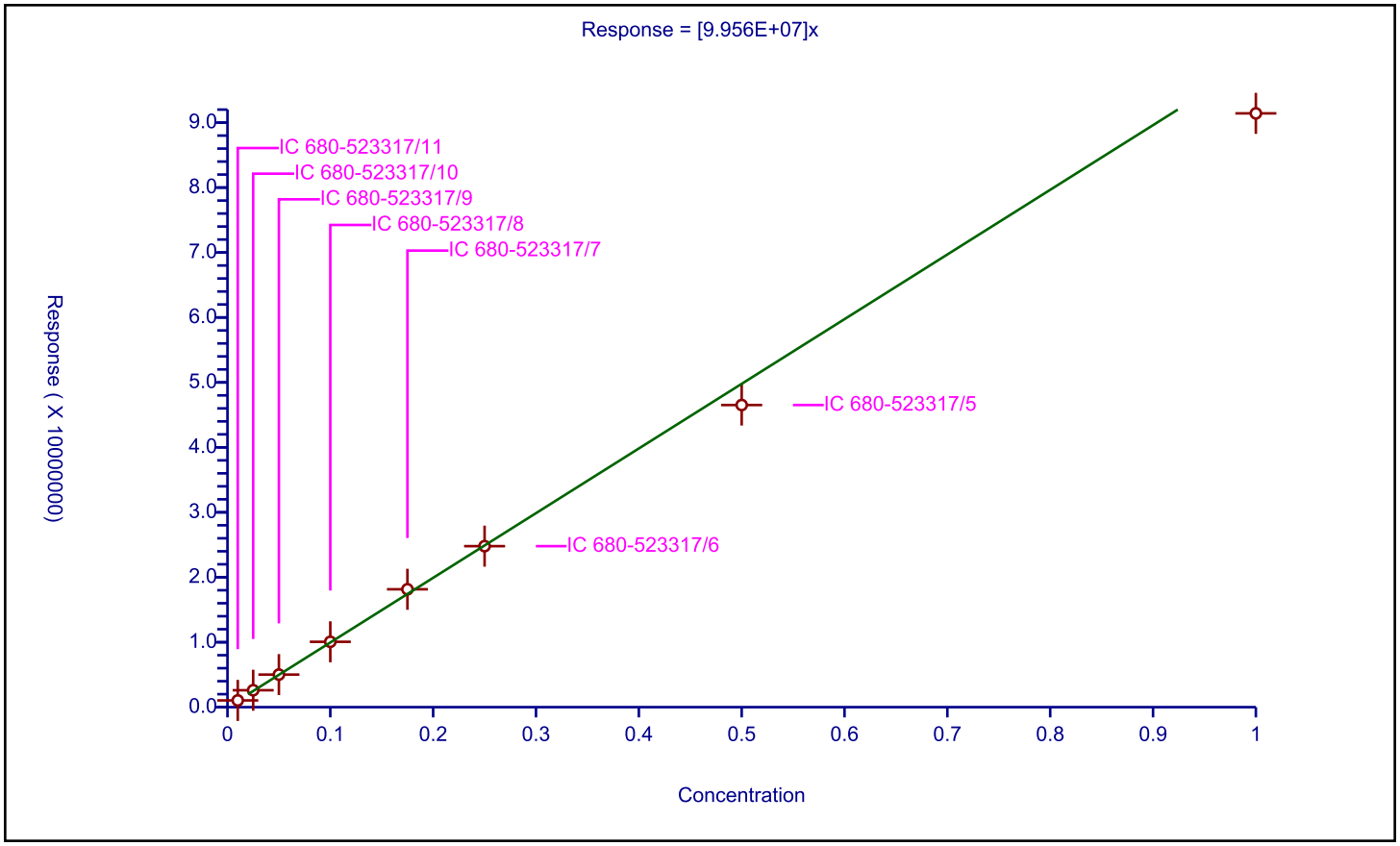
Curve Coefficients

Intercept:	0
Slope:	9.956E+07

Error Coefficients

Standard Error:	3330000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	1040738.0			104073800.0	Y
2	IC 680-523317/10	0.025	2605390.0			104215600.0	Y
3	IC 680-523317/9	0.05	5013484.0			100269680.0	Y
4	IC 680-523317/8	0.1	10063608.0			100636080.0	Y
5	IC 680-523317/7	0.175	18148801.0			103707434.285714	Y
6	IC 680-523317/6	0.25	24787202.0			99148808.0	Y
7	IC 680-523317/5	0.5	46516413.0			93032826.0	Y
8	IC 680-523317/4	1.0	91420310.0			91420310.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

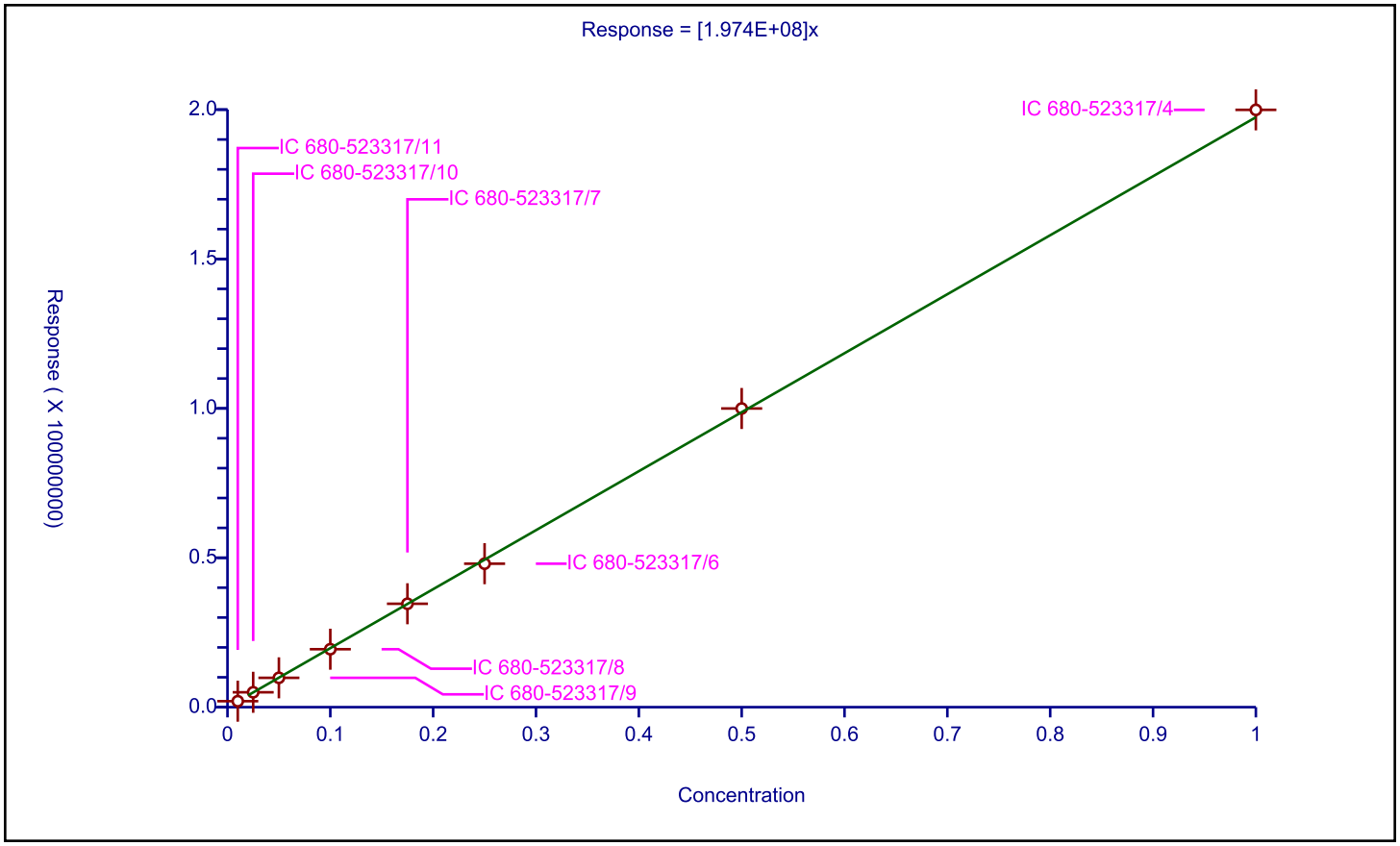
Curve Coefficients

Intercept:	0
Slope:	1.974E+08

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	2000718.0			200071800.0	Y
2	IC 680-523317/10	0.025	4981736.0			199269440.0	Y
3	IC 680-523317/9	0.05	9824392.0			196487840.0	Y
4	IC 680-523317/8	0.1	19396979.0			193969790.0	Y
5	IC 680-523317/7	0.175	34610542.0			197774525.714286	Y
6	IC 680-523317/6	0.25	48018827.0			192075308.0	Y
7	IC 680-523317/5	0.5	99966364.0			199932728.0	Y
8	IC 680-523317/4	1.0	199916295.0			199916295.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

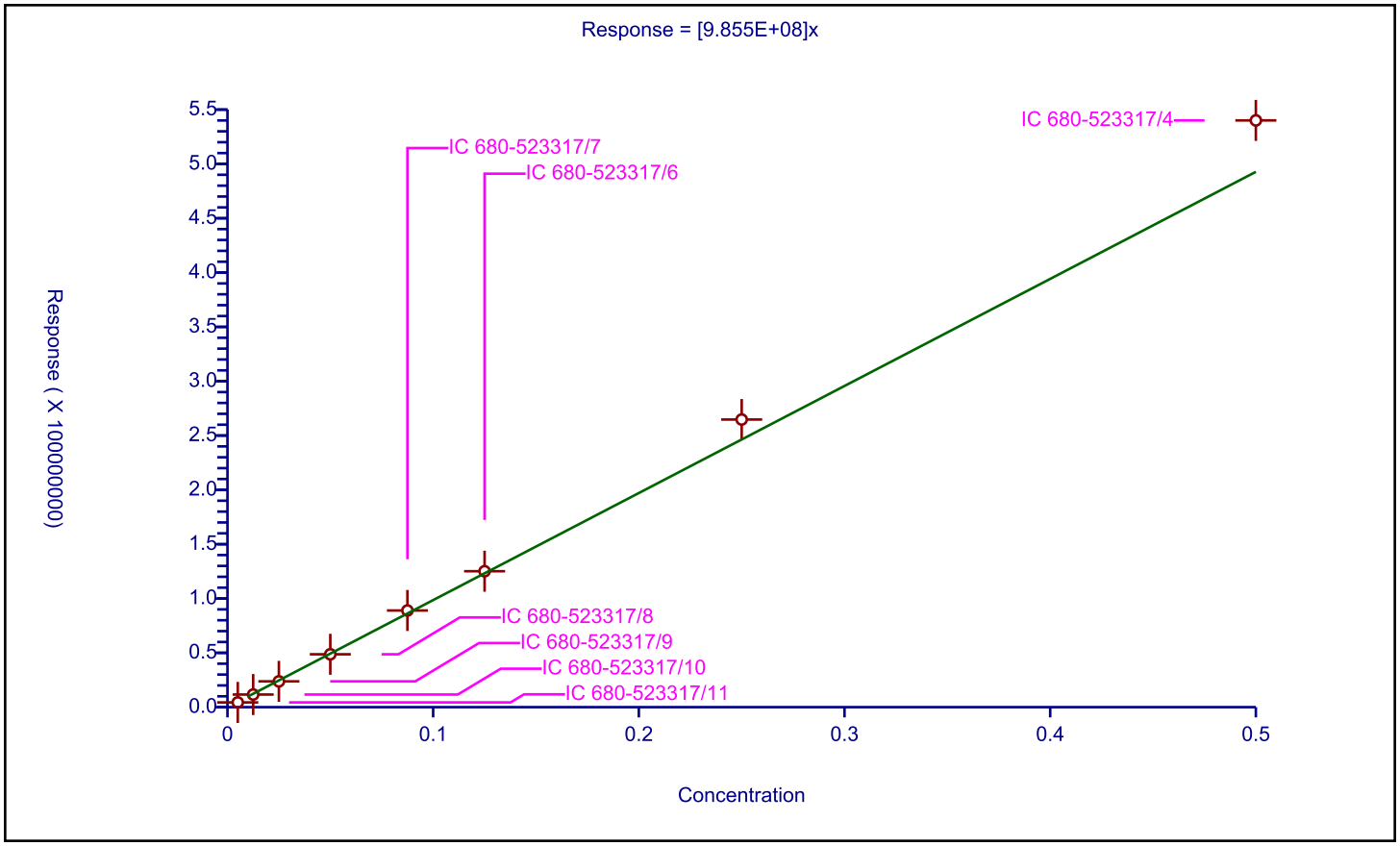
Curve Coefficients

Intercept:	0
Slope:	9.855E+08

Error Coefficients

Standard Error:	19200000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.005	4372331.0			874466200.0	Y
2	IC 680-523317/10	0.0125	11616649.0			929331920.0	Y
3	IC 680-523317/9	0.025	23742571.0			949702840.0	Y
4	IC 680-523317/8	0.05	48666881.0			973337620.0	Y
5	IC 680-523317/7	0.0875	88963078.0			1016720891.42857	Y
6	IC 680-523317/6	0.125	125123739.0			1000989912.0	Y
7	IC 680-523317/5	0.25	264745935.0			1058983740.0	Y
8	IC 680-523317/4	0.5	540043675.0			1080087350.0	Y



Calibration / MCPP

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

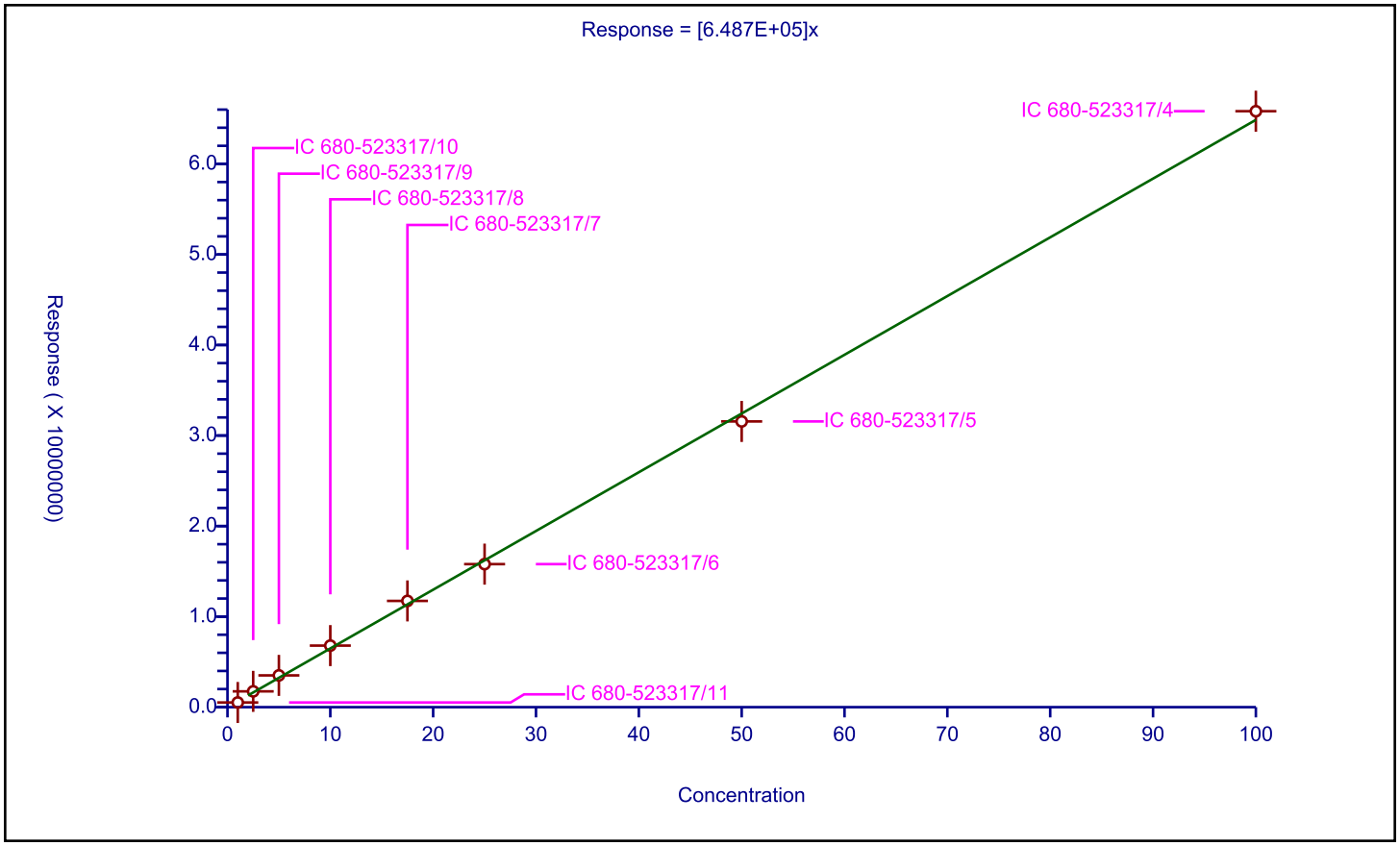
Curve Coefficients

Intercept:	0
Slope:	6.487E+05

Error Coefficients

Standard Error:	561000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	1.0	517455.0			517455.0	Y
2	IC 680-523317/10	2.5	1745483.0			698193.2	Y
3	IC 680-523317/9	5.0	3508507.0			701701.4	Y
4	IC 680-523317/8	10.0	6799750.0			679975.0	Y
5	IC 680-523317/7	17.5	11735070.0			670575.428571	Y
6	IC 680-523317/6	25.0	15798581.0			631943.24	Y
7	IC 680-523317/5	50.0	31559204.0			631184.08	Y
8	IC 680-523317/4	100.0	65821733.0			658217.33	Y



Calibration / MCPA

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

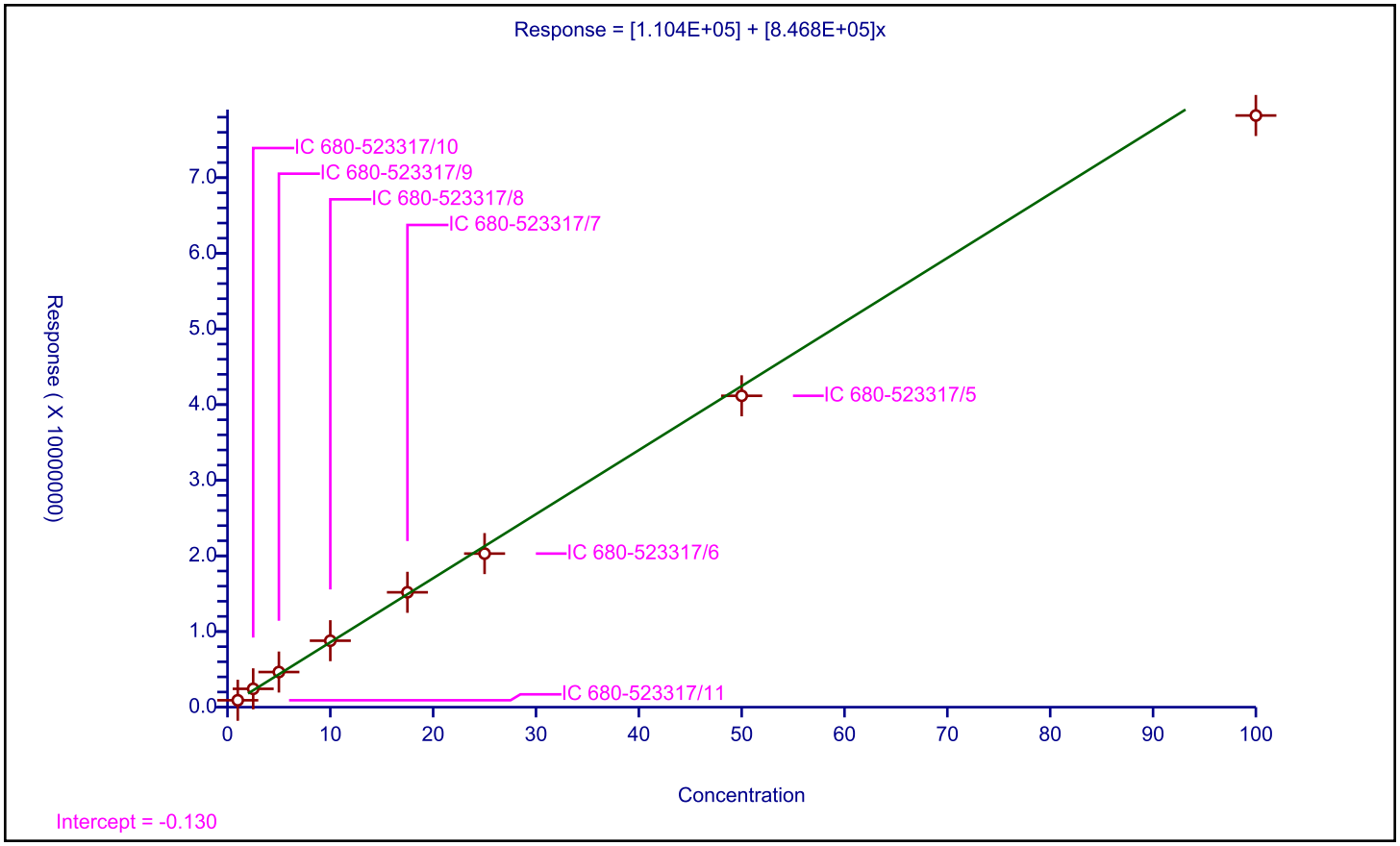
Curve Coefficients

Intercept:	1.104E+05
Slope:	8.468E+05

Error Coefficients

Standard Error:	2770000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	1.0	913431.0			913431.0	Y
2	IC 680-523317/10	2.5	2425365.0			970146.0	Y
3	IC 680-523317/9	5.0	4645587.0			929117.4	Y
4	IC 680-523317/8	10.0	8784914.0			878491.4	Y
5	IC 680-523317/7	17.5	15184702.0			867697.257143	Y
6	IC 680-523317/6	25.0	20303334.0			812133.36	Y
7	IC 680-523317/5	50.0	41163701.0			823274.02	Y
8	IC 680-523317/4	100.0	78220442.0			782204.42	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

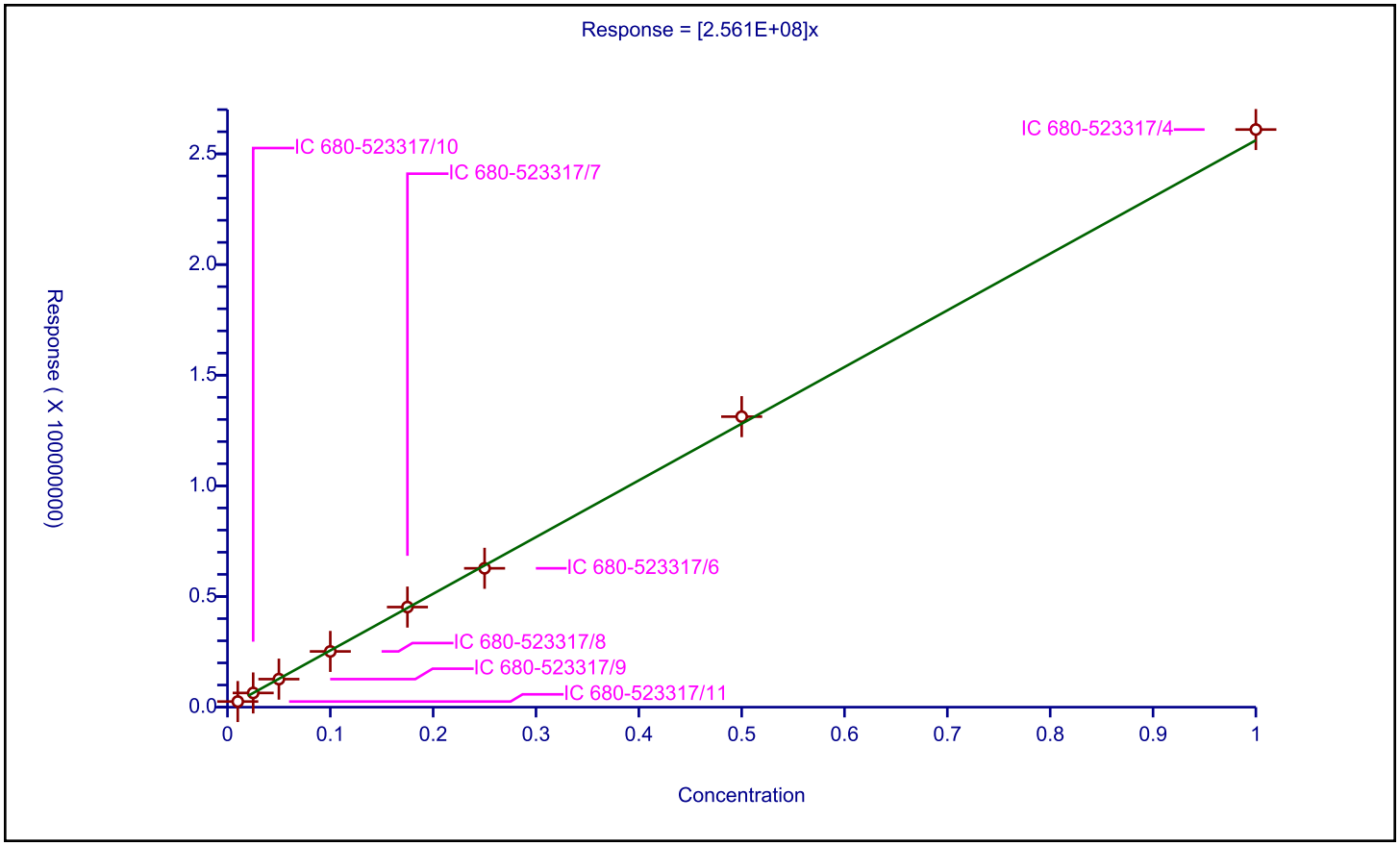
Curve Coefficients

Intercept:	0
Slope:	2.561E+08

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	2539480.0			253948000.0	Y
2	IC 680-523317/10	0.025	6423668.0			256946720.0	Y
3	IC 680-523317/9	0.05	12671217.0			253424340.0	Y
4	IC 680-523317/8	0.1	25183834.0			251838340.0	Y
5	IC 680-523317/7	0.175	45229626.0			258455005.714286	Y
6	IC 680-523317/6	0.25	62746255.0			250985020.0	Y
7	IC 680-523317/5	0.5	131268795.0			262537590.0	Y
8	IC 680-523317/4	1.0	260988077.0			260988077.0	Y



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

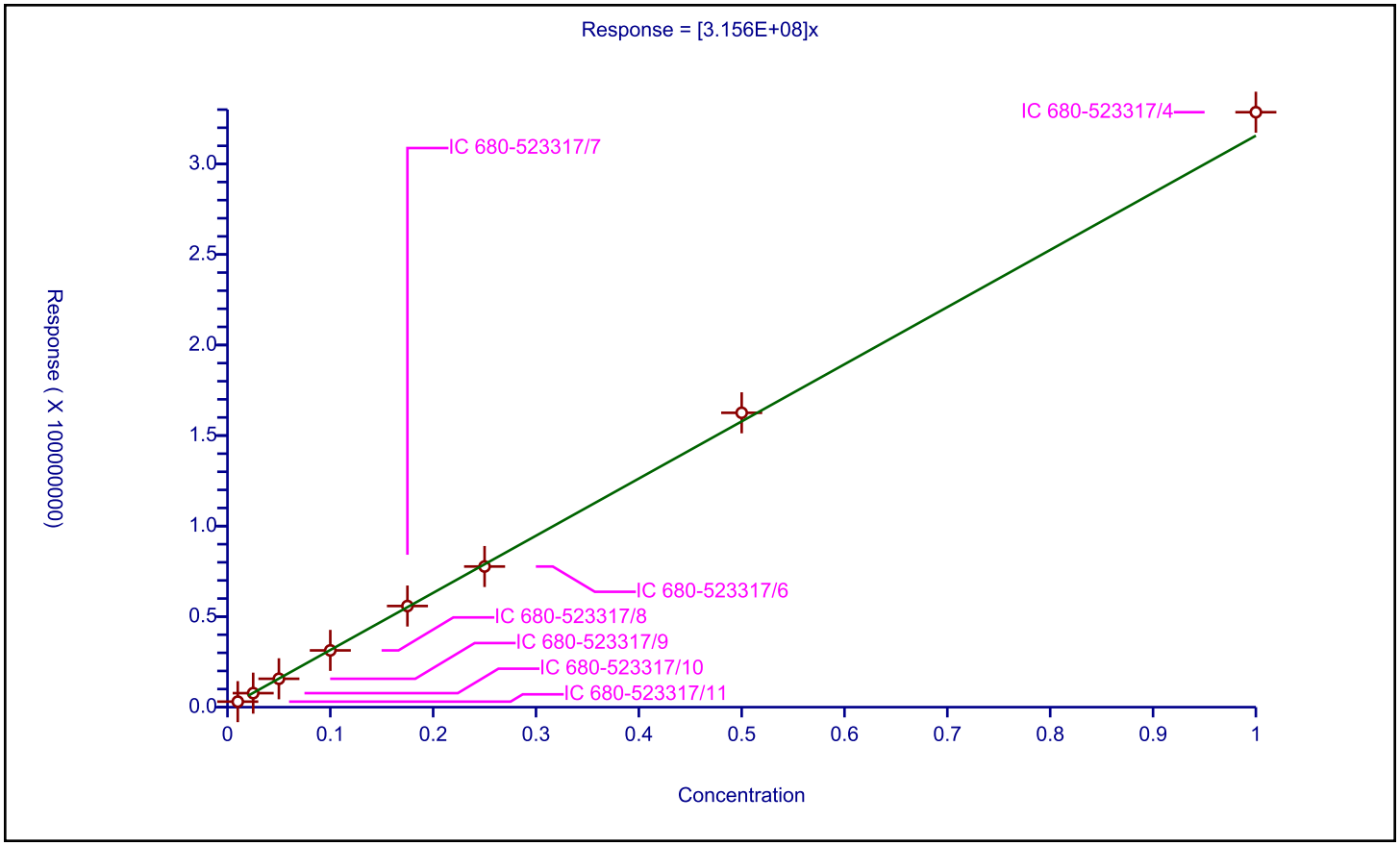
Curve Coefficients

Intercept:	0
Slope:	3.156E+08

Error Coefficients

Standard Error:	5240000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	3047545.0			304754500.0	Y
2	IC 680-523317/10	0.025	7737754.0			309510160.0	Y
3	IC 680-523317/9	0.05	15677896.0			313557920.0	Y
4	IC 680-523317/8	0.1	31351468.0			313514680.0	Y
5	IC 680-523317/7	0.175	55858354.0			319190594.285714	Y
6	IC 680-523317/6	0.25	77679142.0			310716568.0	Y
7	IC 680-523317/5	0.5	162558325.0			325116650.0	Y
8	IC 680-523317/4	1.0	328562078.0			328562078.0	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

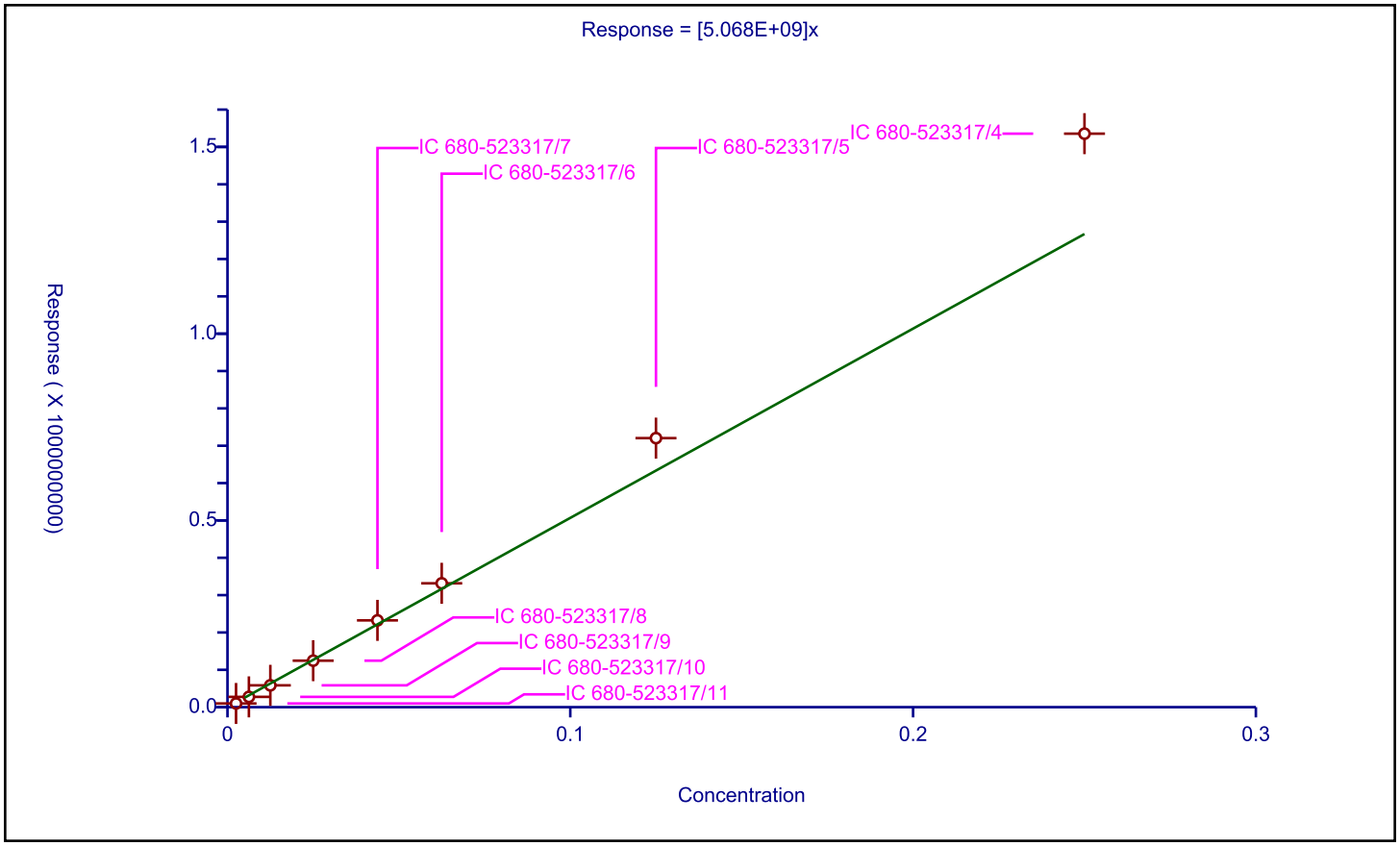
Curve Coefficients

Intercept:	0
Slope:	5.068E+09

Error Coefficients

Standard Error:	107000000
Relative Standard Error:	14.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.0025	9895451.0			3958180400.0	Y
2	IC 680-523317/10	0.00625	27542680.0			4406828800.0	Y
3	IC 680-523317/9	0.0125	58438516.0			4675081280.0	Y
4	IC 680-523317/8	0.025	124451497.0			4978059880.0	Y
5	IC 680-523317/7	0.04375	232407815.0			5312178628.57143	Y
6	IC 680-523317/6	0.0625	331633513.0			5306136208.0	Y
7	IC 680-523317/5	0.125	720360768.0			5762886144.0	Y
8	IC 680-523317/4	0.25	1535573734.0			6142294936.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

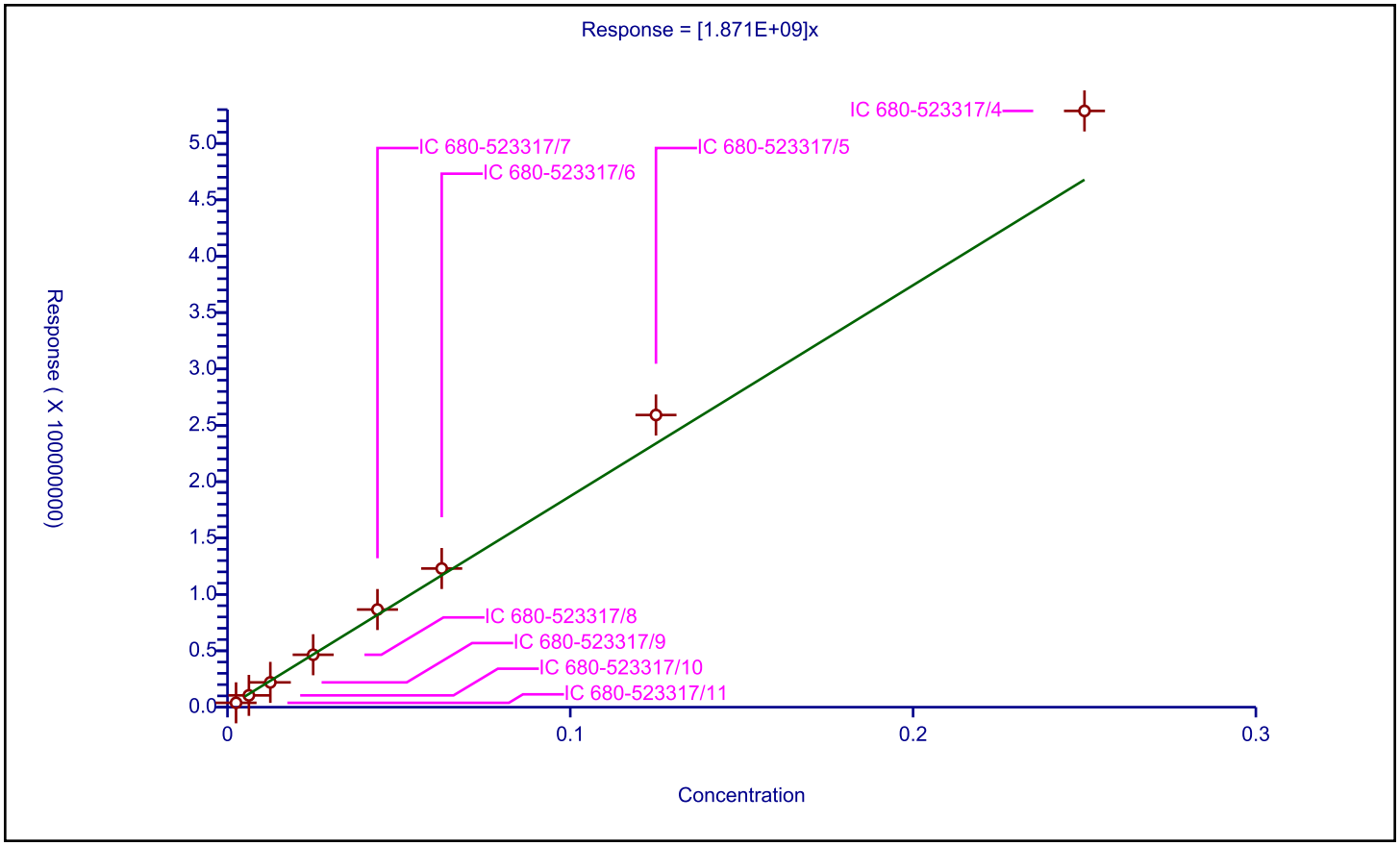
Curve Coefficients

Intercept:	0
Slope:	1.871E+09

Error Coefficients

Standard Error:	25100000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.0025	3859632.0			1543852800.0	Y
2	IC 680-523317/10	0.00625	10459084.0			1673453440.0	Y
3	IC 680-523317/9	0.0125	21972097.0			1757767760.0	Y
4	IC 680-523317/8	0.025	46478268.0			1859130720.0	Y
5	IC 680-523317/7	0.04375	86592112.0			1979248274.28571	Y
6	IC 680-523317/6	0.0625	122984337.0			1967749392.0	Y
7	IC 680-523317/5	0.125	259138392.0			2073107136.0	Y
8	IC 680-523317/4	0.25	528834758.0			2115339032.0	Y



Calibration / Chloramben

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

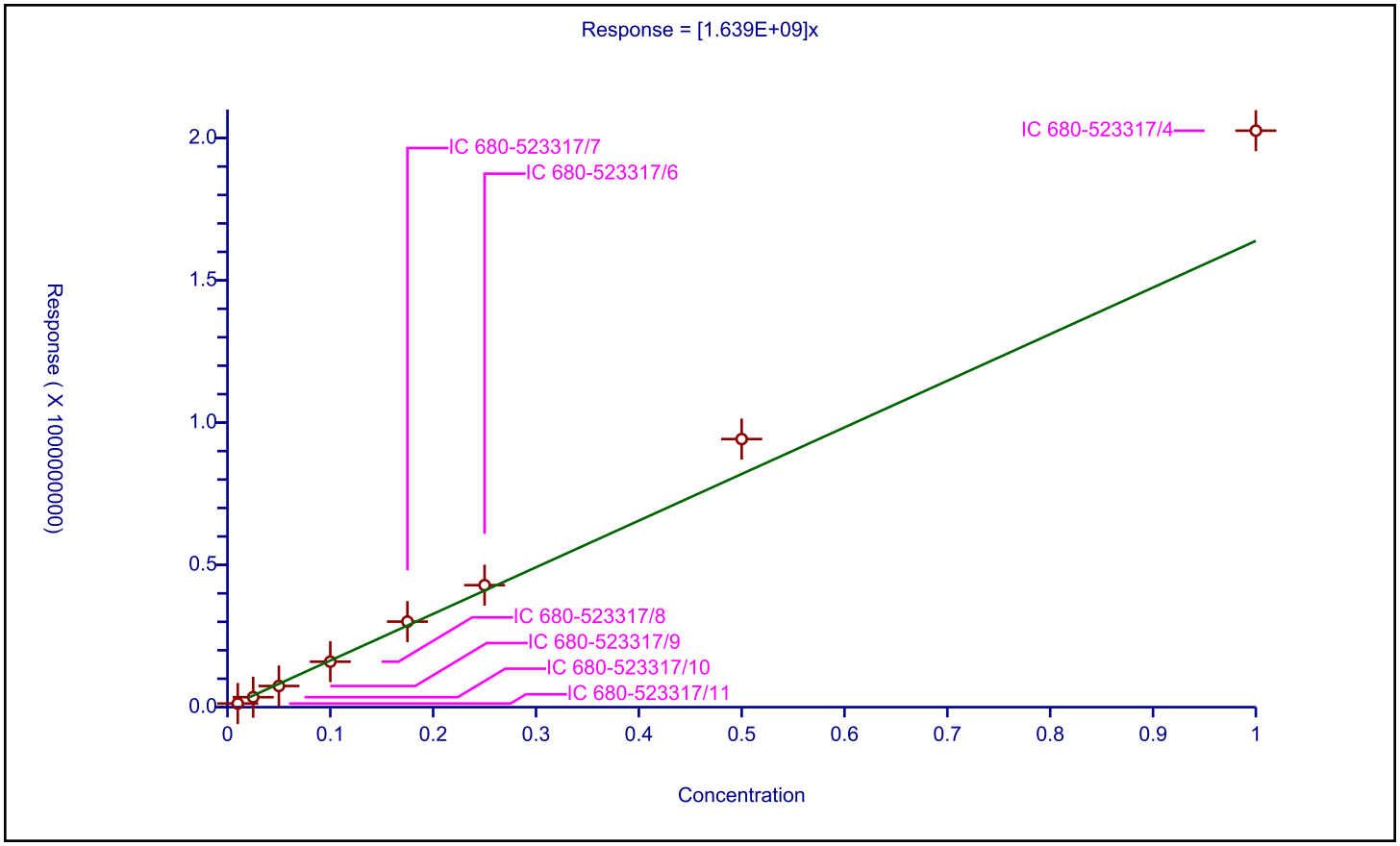
Curve Coefficients

Intercept:	0
Slope:	1.639E+09

Error Coefficients

Standard Error:	154000000
Relative Standard Error:	15.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	12786212.0			1278621200.0	Y
2	IC 680-523317/10	0.025	35018105.0			1400724200.0	Y
3	IC 680-523317/9	0.05	74407541.0			1488150820.0	Y
4	IC 680-523317/8	0.1	159803441.0			1598034410.0	Y
5	IC 680-523317/7	0.175	300714561.0			1718368920.0	Y
6	IC 680-523317/6	0.25	428728783.0			1714915132.0	Y
7	IC 680-523317/5	0.5	942129901.0			1884259802.0	Y
8	IC 680-523317/4	1.0	2025978443.0			2025978443.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

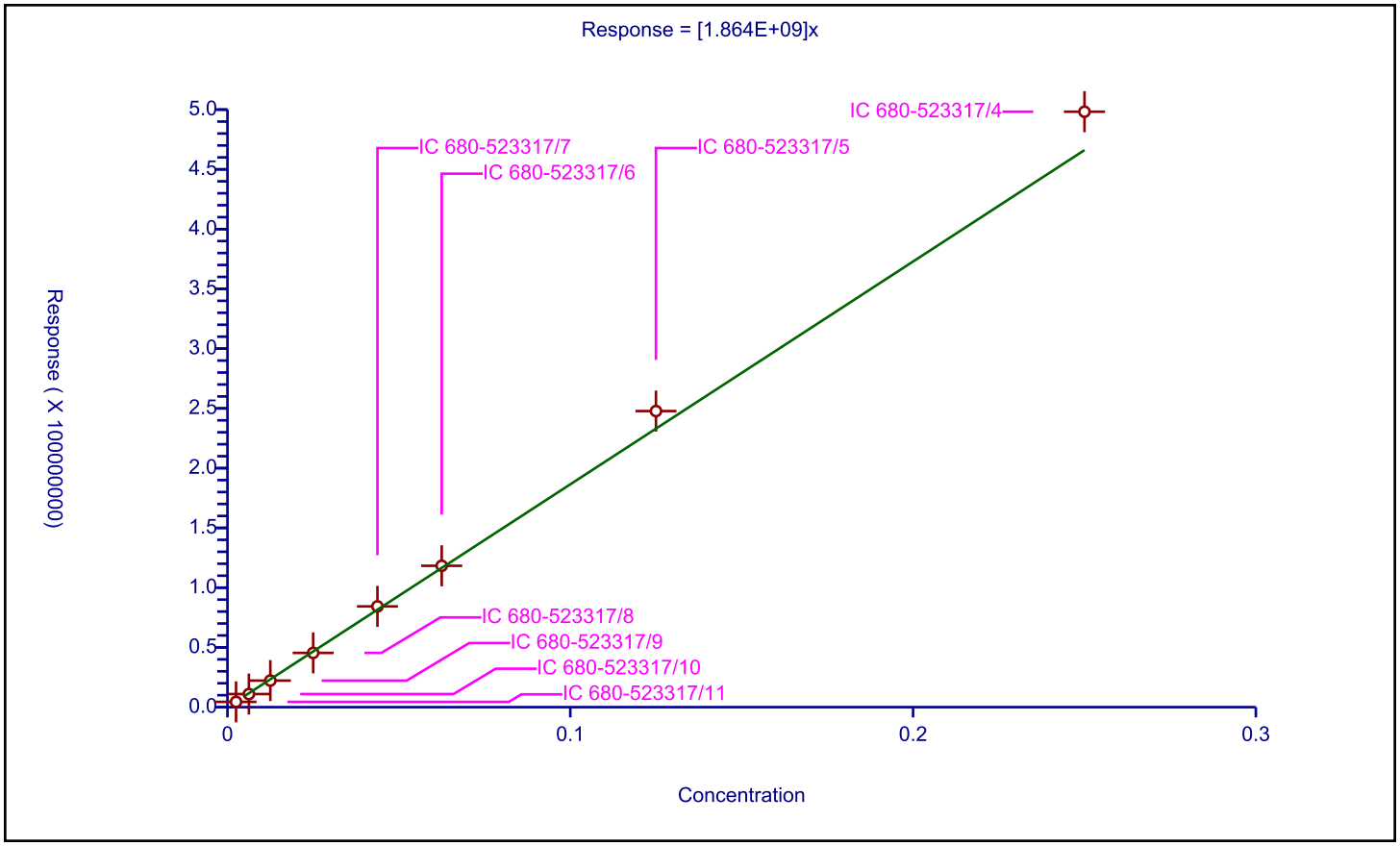
Curve Coefficients

Intercept:	0
Slope:	1.864E+09

Error Coefficients

Standard Error:	13400000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.0025	4426368.0			1770547200.0	Y
2	IC 680-523317/10	0.00625	10974501.0			1755920160.0	Y
3	IC 680-523317/9	0.0125	22227236.0			1778178880.0	Y
4	IC 680-523317/8	0.025	45407307.0			1816292280.0	Y
5	IC 680-523317/7	0.04375	84308974.0			1927062262.85714	Y
6	IC 680-523317/6	0.0625	118284366.0			1892549856.0	Y
7	IC 680-523317/5	0.125	247745545.0			1981964360.0	Y
8	IC 680-523317/4	0.25	498225713.0			1992902852.0	Y



Calibration / 2,4-DB

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

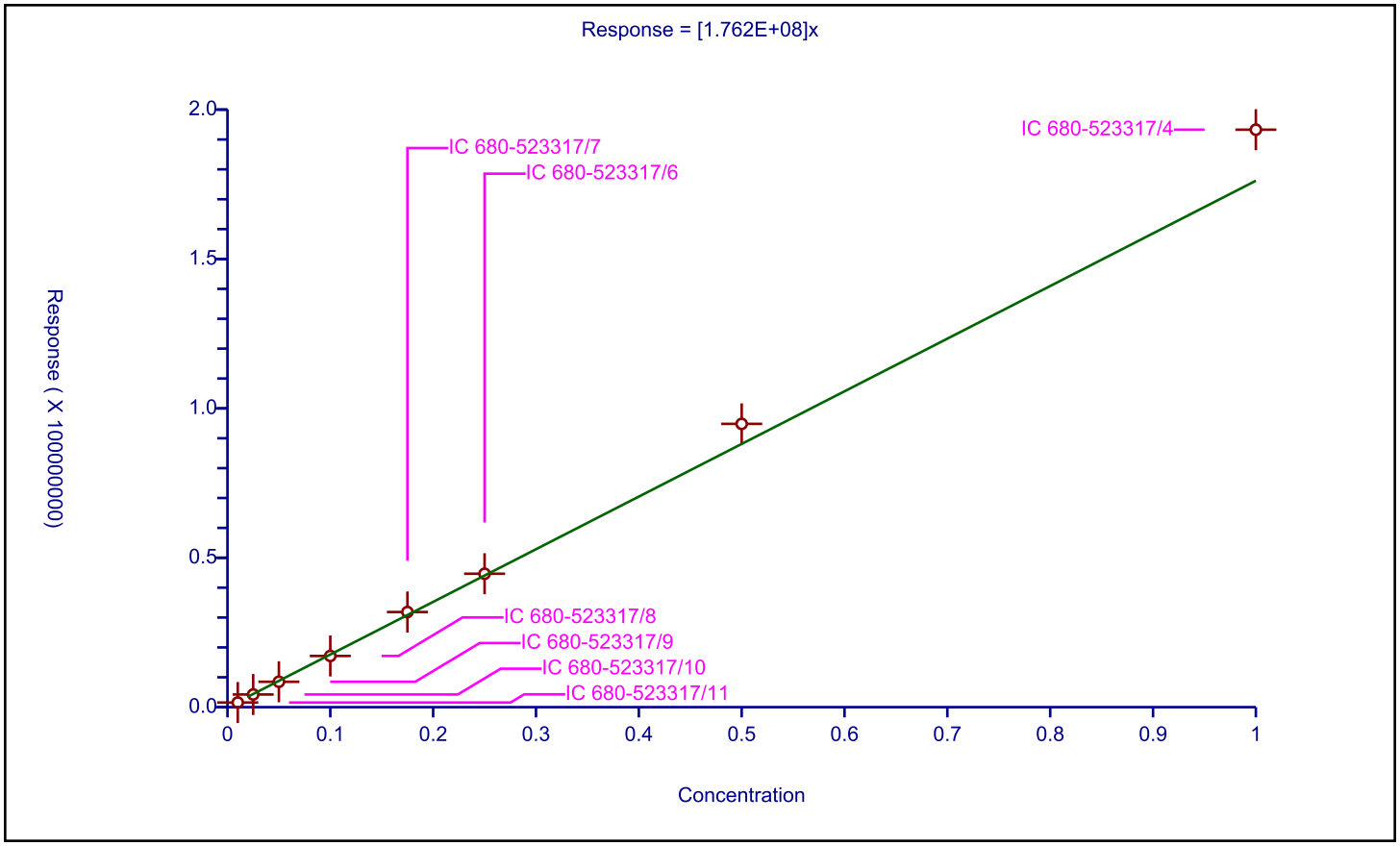
Curve Coefficients

Intercept:	0
Slope:	1.762E+08

Error Coefficients

Standard Error:	6950000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	1551068.0			155106800.0	Y
2	IC 680-523317/10	0.025	4239618.0			169584720.0	Y
3	IC 680-523317/9	0.05	8499475.0			169989500.0	Y
4	IC 680-523317/8	0.1	17140092.0			171400920.0	Y
5	IC 680-523317/7	0.175	31842206.0			181955462.857143	Y
6	IC 680-523317/6	0.25	44656333.0			178625332.0	Y
7	IC 680-523317/5	0.5	94816741.0			189633482.0	Y
8	IC 680-523317/4	1.0	193274970.0			193274970.0	Y



Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

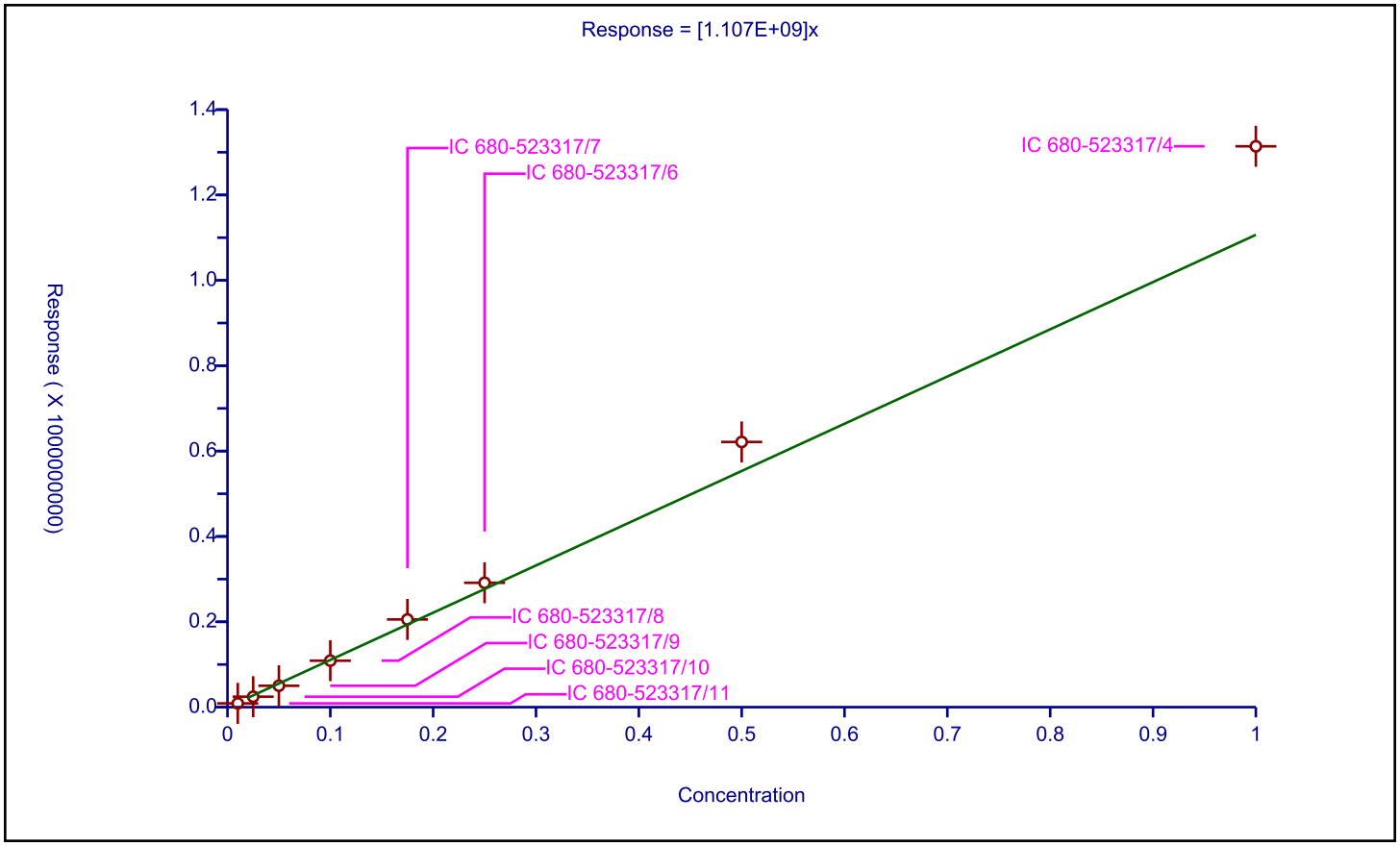
Curve Coefficients

Intercept:	0
Slope:	1.107E+09

Error Coefficients

Standard Error:	82900000
Relative Standard Error:	13.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	8830536.0			883053600.0	Y
2	IC 680-523317/10	0.025	24507489.0			980299560.0	Y
3	IC 680-523317/9	0.05	50192922.0			1003858440.0	Y
4	IC 680-523317/8	0.1	108913733.0			1089137330.0	Y
5	IC 680-523317/7	0.175	205511059.0			1174348908.57143	Y
6	IC 680-523317/6	0.25	291379006.0			1165516024.0	Y
7	IC 680-523317/5	0.5	621322249.0			1242644498.0	Y
8	IC 680-523317/4	1.0	1314025484.0			1314025484.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

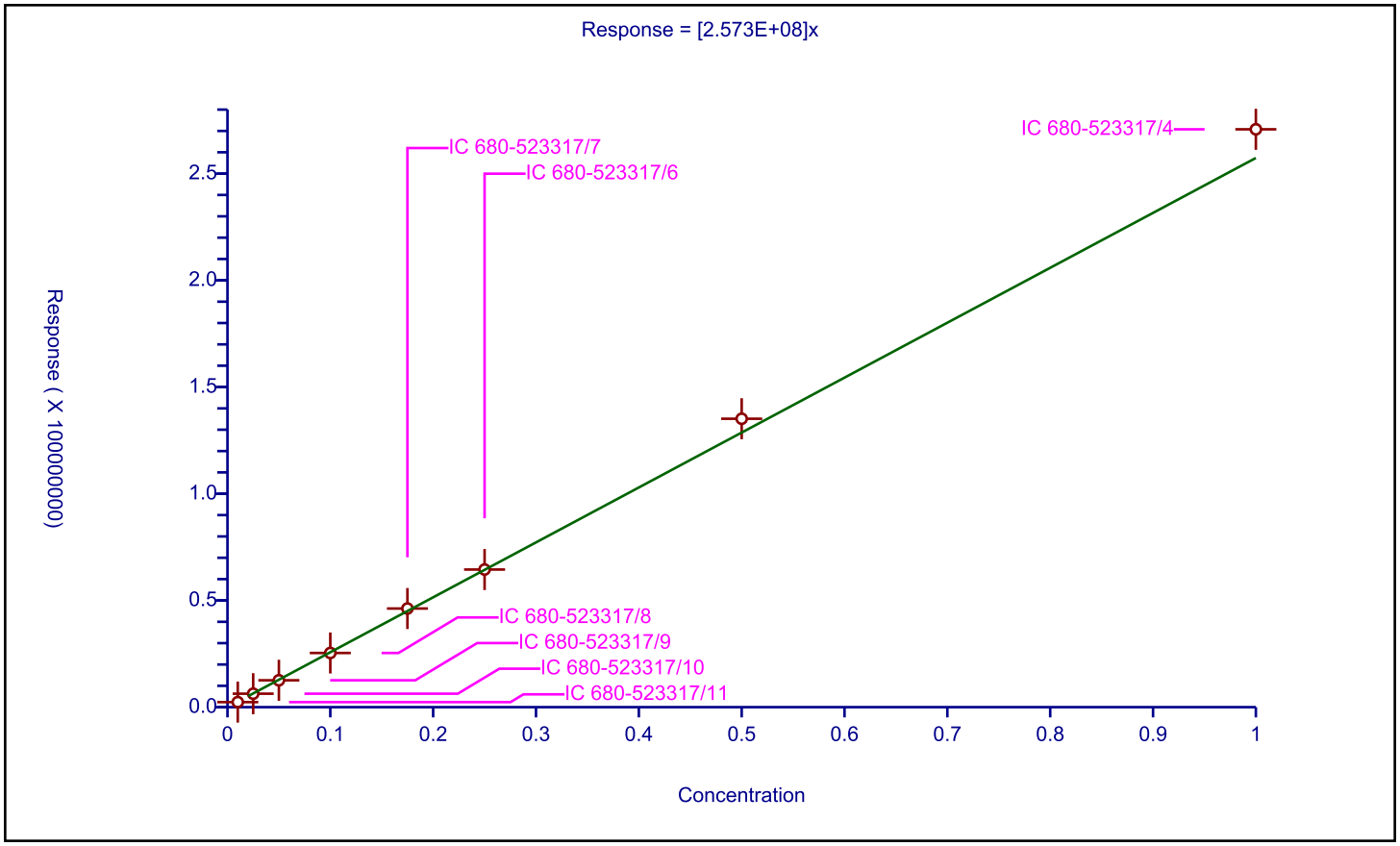
Curve Coefficients

Intercept:	0
Slope:	2.573E+08

Error Coefficients

Standard Error:	5660000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	2372651.0			237265100.0	Y
2	IC 680-523317/10	0.025	6315524.0			252620960.0	Y
3	IC 680-523317/9	0.05	12591827.0			251836540.0	Y
4	IC 680-523317/8	0.1	25386610.0			253866100.0	Y
5	IC 680-523317/7	0.175	46220417.0			264116668.571429	Y
6	IC 680-523317/6	0.25	64493999.0			257975996.0	Y
7	IC 680-523317/5	0.5	135146452.0			270292904.0	Y
8	IC 680-523317/4	1.0	270773698.0			270773698.0	Y



Calibration / Picloram

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

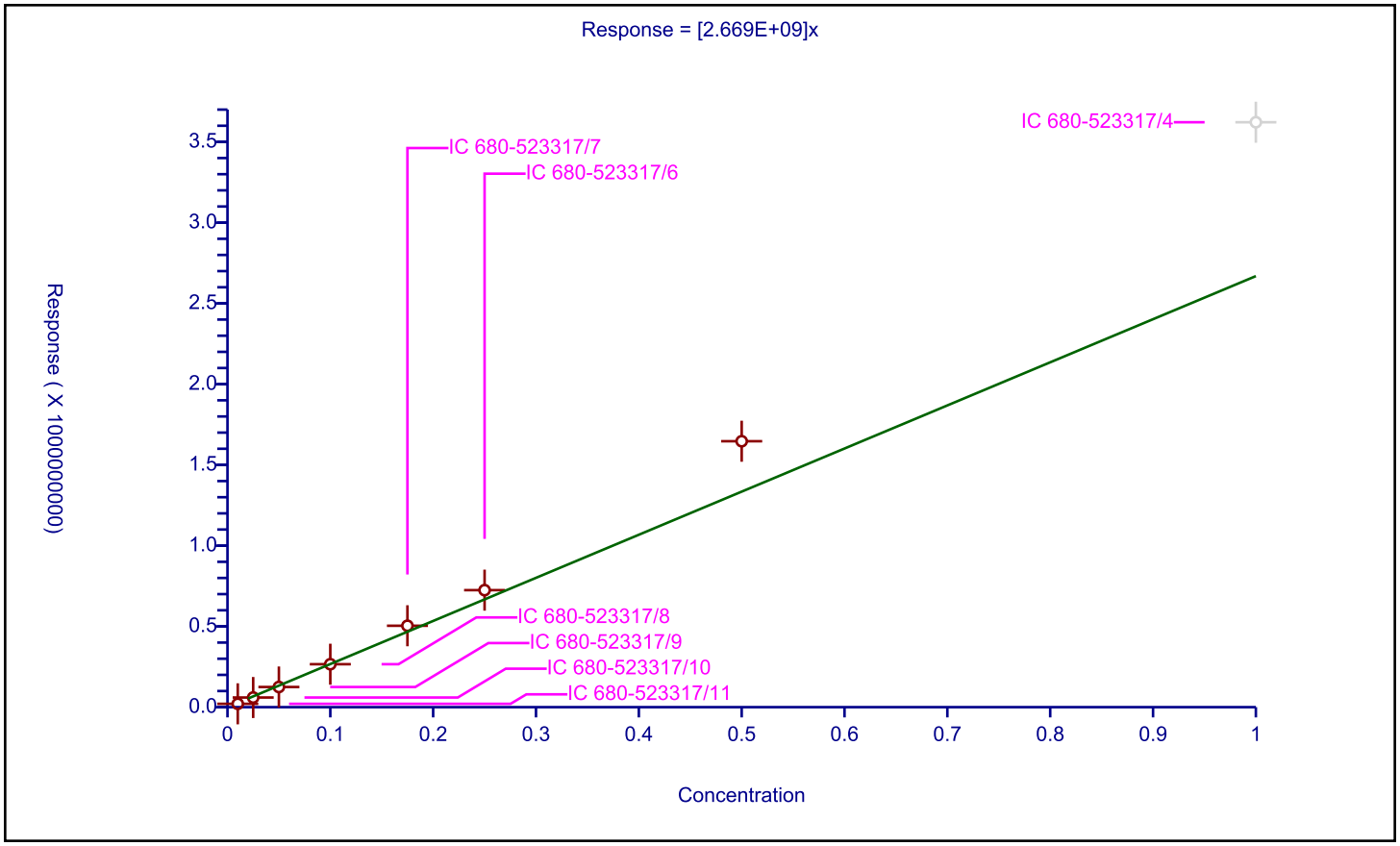
Curve Coefficients

Intercept:	0
Slope:	2.669E+09

Error Coefficients

Standard Error:	130000000
Relative Standard Error:	15.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	20683643.0			2068364300.0	Y
2	IC 680-523317/10	0.025	59686028.0			2387441120.0	Y
3	IC 680-523317/9	0.05	124854571.0			2497091420.0	Y
4	IC 680-523317/8	0.1	265884971.0			2658849710.0	Y
5	IC 680-523317/7	0.175	504113503.0			2880648588.57143	Y
6	IC 680-523317/6	0.25	724514848.0			2898059392.0	Y
7	IC 680-523317/5	0.5	1646590154.0			3293180308.0	Y
8	IC 680-523317/4	1.0	3621817547.0			3621817547.0	N



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

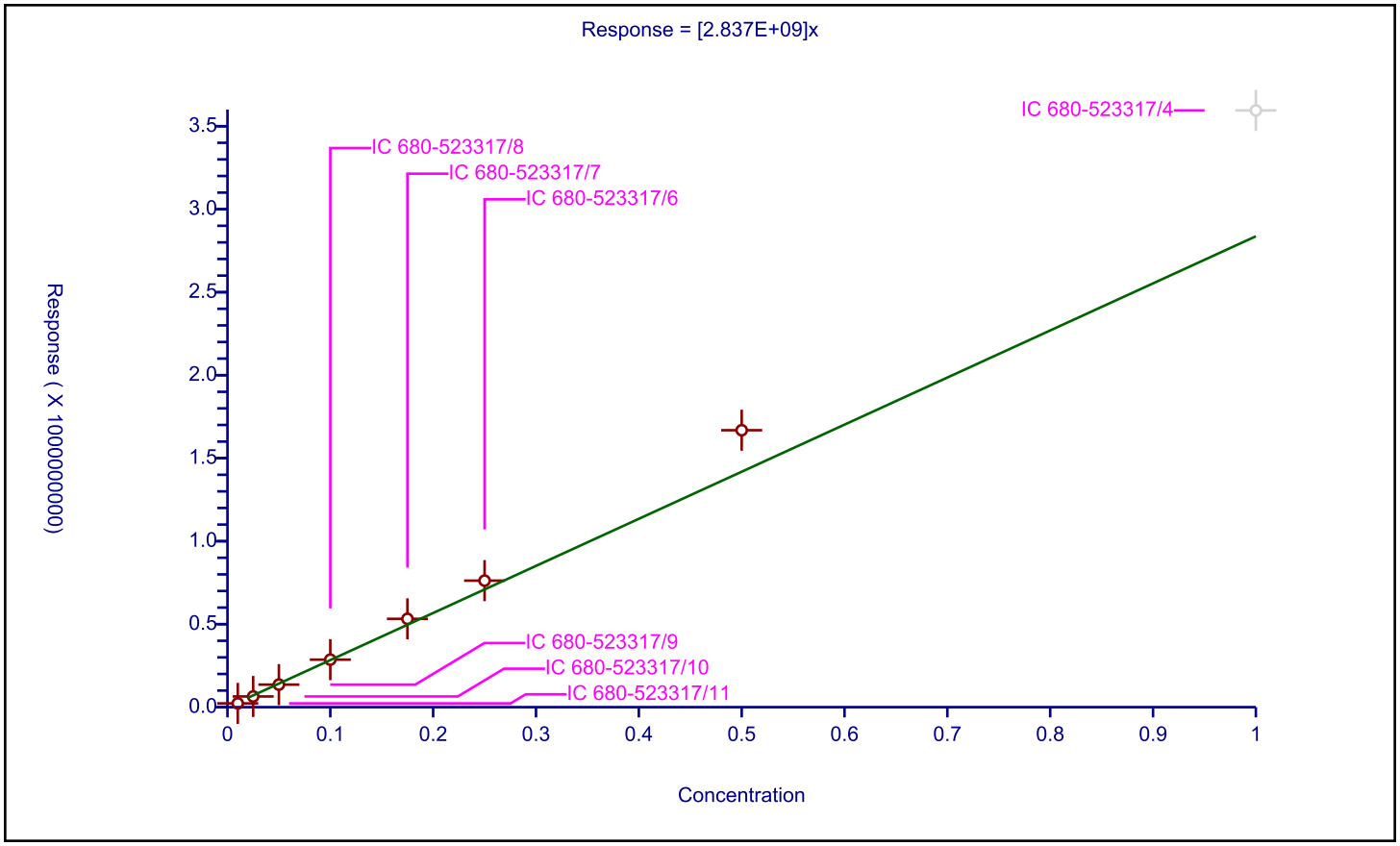
Curve Coefficients

Intercept:	0
Slope:	2.837E+09

Error Coefficients

Standard Error:	105000000
Relative Standard Error:	12.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	22721047.0			2272104700.0	Y
2	IC 680-523317/10	0.025	64463537.0			2578541480.0	Y
3	IC 680-523317/9	0.05	135870891.0			2717417820.0	Y
4	IC 680-523317/8	0.1	286279694.0			2862796940.0	Y
5	IC 680-523317/7	0.175	532179764.0			3041027222.85714	Y
6	IC 680-523317/6	0.25	762299063.0			3049196252.0	Y
7	IC 680-523317/5	0.5	1668353746.0			3336707492.0	Y
8	IC 680-523317/4	1.0	3595185453.0			3595185453.0	N



Calibration / Acifluorfen

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

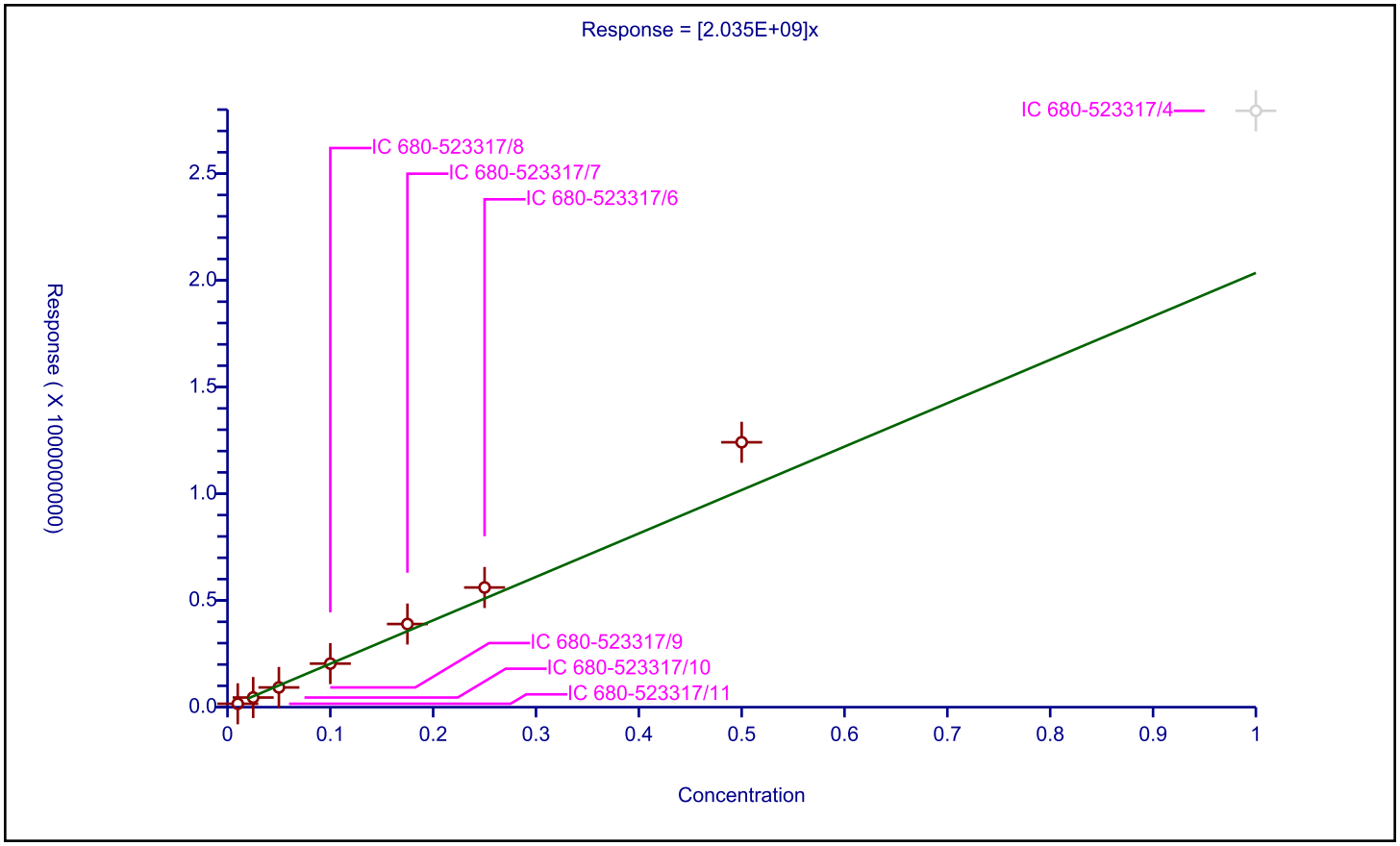
Curve Coefficients

Intercept:	0
Slope:	2.035E+09

Error Coefficients

Standard Error:	94900000
Relative Standard Error:	15.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	15904730.0			1590473000.0	Y
2	IC 680-523317/10	0.025	45279726.0			1811189040.0	Y
3	IC 680-523317/9	0.05	92428968.0			1848579360.0	Y
4	IC 680-523317/8	0.1	204134092.0			2041340920.0	Y
5	IC 680-523317/7	0.175	389652410.0			2226585200.0	Y
6	IC 680-523317/6	0.25	560772453.0			2243089812.0	Y
7	IC 680-523317/5	0.5	1241223393.0			2482446786.0	Y
8	IC 680-523317/4	1.0	2794380058.0			2794380058.0	N



FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57185

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523317/11	SE090011.D
Level 2	IC 680-523317/10	SE090010.D
Level 3	IC 680-523317/9	SE090009.D
Level 4	IC 680-523317/8	SE090008.D
Level 5	IC 680-523317/7	SE090007.D
Level 6	IC 680-523317/6	SE090006.D
Level 7	IC 680-523317/5	SE090005.D
Level 8	IC 680-523317/4	SE090004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	2.539	2.540	2.541	2.540	2.541	2.542	2.542	2.543			2.520 - 2.560	2.541
3,5-Dichlorobenzoic acid	6.042	6.041	6.041	6.040	6.040	6.041	6.041	6.043			6.030 - 6.050	6.041
4-Nitrophenol	6.429	6.427	6.428	6.426	6.426	6.425	6.425	6.426			6.416 - 6.436	6.427
Dicamba	6.834	6.832	6.833	6.833	6.833	6.834	6.835	6.836			6.823 - 6.843	6.834
MCPP	6.882	6.880	6.881	6.880	6.881	6.881	6.882	6.885			6.870 - 6.890	6.882
MCPA	7.081	7.078	7.078	7.078	7.080	7.080	7.081	7.084			7.068 - 7.088	7.080
Dichlorprop	7.224	7.223	7.223	7.223	7.223	7.224	7.224	7.225			7.213 - 7.233	7.224
2,4-D	7.445	7.442	7.443	7.443	7.443	7.444	7.443	7.444			7.433 - 7.453	7.443
Pentachlorophenol	7.638	7.637	7.637	7.637	7.638	7.639	7.640	7.642			7.627 - 7.647	7.639
Silvex (2,4,5-TP)	7.776	7.774	7.774	7.774	7.775	7.775	7.776	7.777			7.764 - 7.784	7.775
2,4,5-T	8.009	8.007	8.008	8.008	8.008	8.008	8.008	8.009			7.998 - 8.018	8.008
Chloramben	8.083	8.082	8.082	8.081	8.082	8.083	8.083	8.084			8.071 - 8.091	8.083
Dinoseb	8.174	8.173	8.173	8.173	8.175	8.175	8.175	8.178			8.163 - 8.183	8.175
2,4-DB	8.225	8.223	8.223	8.222	8.223	8.223	8.222	8.223			8.212 - 8.232	8.223
Bentazon	8.582	8.580	8.580	8.578	8.580	8.580	8.579	8.582			8.568 - 8.588	8.580
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.694	8.692	8.693	8.692	8.694	8.695	8.696	+++++			8.682 - 8.702	8.694
Picloram	8.914	8.913	8.913	8.913	8.915	8.916	8.916	+++++			8.903 - 8.923	8.914
Acifluorfen	+++++	9.711	9.712	9.710	9.713	9.714	9.716	+++++			9.700 - 9.720	9.713
2,4-Dichlorophenylacetic acid (Surr)	6.754	6.752	6.753	6.752	6.753	6.752	6.753	6.754			6.742 - 6.762	6.753

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57185

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523317/11	SE090011.D
Level 2	IC 680-523317/10	SE090010.D
Level 3	IC 680-523317/9	SE090009.D
Level 4	IC 680-523317/8	SE090008.D
Level 5	IC 680-523317/7	SE090007.D
Level 6	IC 680-523317/6	SE090006.D
Level 7	IC 680-523317/5	SE090005.D
Level 8	IC 680-523317/4	SE090004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	1449038400 1403858171	1387225960 1374824260	1365529440 1464443900	1342824440 1486390376	Ave		1409266868				3.7		20.0			
3,5-Dichlorobenzoic acid	1564045500 1634037589	1534581600 1611748044	1576220400 1702983078	1571427200 1744604922	Ave		1617456042				4.5		20.0			
4-Nitrophenol	398489800 290236126	351131920 281673680	307582400 286947204	287019770 285656847	Ave		311092218				13.5		20.0			
Dicamba	3954836600 4563530343	4135342720 4513566224	4266504320 4792794940	4377177900 4873928800	Ave		4434710231				7.1		20.0			
MCPP	6429640 4019842	5565842 3805376	4830359 3749215	4280463 3695838	Lin1	3722367.66	3696909.68							0.9990		0.9900
MCPA	12826943 8210618	11420632 7570014	9625033 7828119	8763587 7248075	Lin1	7765172.15	7413117.74							0.9970		0.9900
Dichlorprop	1337492400 1178353943	1258487200 1161802596	1171341180 1239579716	1163046220 1282238794	Ave		1224042756				5.4		20.0			
2,4-D	1393308000 1467415566	1388604320 1445576004	1388380420 1552630308	1412866400 1629748617	Ave		1459816204				6.0		20.0			
Pentachlorophenol	1349686480 1799914386 3	1509634848 1792752230 6	1624408792 1888878840 2	1706810204 1819920500 8	Ave		1.6865 E+010				10.8		20.0			
Silvex (2,4,5-TP)	5497594400 7075208069	5929777120 6990439328	6276901760 7546401048	6623035200 7732990704	Ave		6709043454				11.6		20.0			
2,4,5-T	5505521200 6441295063	5436196800 6439470512	5723874720 7017644192	6008793160 7279162848	Ave		6231494812				11.0		20.0			
Chloramben	4390283700 5813570057	4802950040 5790055860	5074746740 6277009940	5342320510 5823384953	Ave		5414290225				11.6		20.0			
Dinoseb	2322861800 3570272063	2655788120 3607953828	2830473000 4025538318	3197209960 4034212367	Ave		3280538682				19.4		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57185

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4-DB	807286700 919306080	906544720 849803092	901861540 895005772	892295180 849802206	Ave		877738161				4.3		20.0			
Bentazon	683449200 757308909	704245240 746511312	712567800 805113282	722410710 824414003	Ave		744502557				6.6		20.0			
Tetraphthalic acid, tetrachloro-, dimethyl	7119457100 9674149440	8108743200 9665486292	8588337920 10154066544	9033626780 +++++	Ave		8906266754				11.8		20.0			
Picloram	6016589900 9223458754	6843544000 9462066008	7481396240 10800668064	8172096570 +++++	Ave		8285688505				20.0		20.0			
Acifluorfen	+++++ 6548368451	4351338680 6876599772	4742346440 8200613658	5615195050 +++++	Lin	-238957947	8460535660							0.9940		0.9900
2,4-Dichlorophenylacetic acid (Surr)	1214155400 1245150886	1228180280 1225927936	1221489360 1282365322	1215980060 1320744257	Ave		1244249188				3.1		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57185

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523317/11	SE090011.D
Level 2	IC 680-523317/10	SE090010.D
Level 3	IC 680-523317/9	SE090009.D
Level 4	IC 680-523317/8	SE090008.D
Level 5	IC 680-523317/7	SE090007.D
Level 6	IC 680-523317/6	SE090006.D
Level 7	IC 680-523317/5	SE090005.D
Level 8	IC 680-523317/4	SE090004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Ave	14490384 343706065	34680649 732221950	68276472 1486390376	134282444	245675180	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
3,5-Dichlorobenzoic acid	Ave	15640455 402937011	38364540 851491539	78811020 1744604922	157142720	285956578	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
4-Nitrophenol	Ave	3984898 70418420	8778298 143473602	15379120 285656847	28701977	50791322	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dicamba	Ave	19774183 564195778	51691784 1198198735	106662608 2436964400	218858895	399308905	0.00500 0.125	0.0125 0.250	0.0250 0.500	0.0500	0.0875
MCPP	Lin1	6429640 95134406	13914604 187460762	24151794 369583811	42804626	70347241	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
MCPA	Lin1	12826943 189250340	28551579 391405967	48125167 724807549	87635867	143685808	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
Dichlorprop	Ave	13374924 290450649	31462180 619789858	58567059 1282238794	116304622	206211940	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4-D	Ave	13933080 361394001	34715108 776315154	69419021 1629748617	141286640	256797724	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Pentachlorophenol	Ave	33742162 1120470146	94352178 2361098559	203051099 4549801262	426702551	787462544	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
Silvex (2,4,5-TP)	Ave	13743986 436902458	37061107 943300131	78461272 1933247676	165575880	309540353	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
2,4,5-T	Ave	13763803 402466907	33976230 877205524	71548434 1819790712	150219829	281806659	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
Chloramben	Ave	43902837 1447513965	120073751 3138504970	253737337 5823384953	534232051	1017374760	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dinoseb	Ave	23228618 901988457	66394703 2012769159	141523650 4034212367	319720996	624797611	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4-DB	Ave	8072867 212450773	22663618 447502886	45093077 849802206	89229518	160878564	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Bentazon	Ave	6834492 186627828	17606131 402556641	35628390 824414003	72241071	132529059	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523317

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/09/2018 17:59 Calibration End Date: 05/09/2018 20:17 Calibration ID: 57185

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	71194571 2416371573	202718580 5077033272	429416896 +++++	903362678	1692976152	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
Picloram	Ave	60165899 2365516502	171088600 5400334032	374069812 +++++	817209657	1614105282	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
Acifluorfen	Lin	+++++ 1719149943	108783467 4100306829	237117322 +++++	561519505	1145964479	+++++ 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	12141554 306481984	30704507 641182661	61074468 1320744257	121598006	217901405	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

Curve Type Legend:

Ave = Average
Lin = Linear
Lin1 = Linear 1/conc

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 09-May-2018 17:59:52 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:06 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 18:51:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							a
1	2.492	2.491	0.001	472686723	1.00	0.9892	a
2	2.543	2.540	0.003	1486390376	1.00	1.05	a
						RPD = 6.41	
2 2,6-Dichlorophenol							a
1	4.943	4.943	0.000	93110884	NC	NC	a
2	5.030	5.028	0.002	499305693	NC	NC	a
						RPD = 4.02	
3 2,4,6-Trichlorophenol							a
1	5.712	5.710	0.002	1340729096	NC	NC	a
2	5.704	5.700	0.004	4940529110	NC	NC	a
						RPD = 10.44	
4 3,5-Dichlorobenzoic acid							a
1	6.048	6.047	0.001	319887544	1.00	1.03	a
2	6.043	6.040	0.003	1744604922	1.00	1.08	a
						RPD = 4.17	
5 4-Nitrophenol							a
1	6.173	6.173	0.000	91420310	1.00	0.9182	a
2	6.426	6.426	0.000	285656847	1.00	0.9182	a
						RPD = 0.00	
$ 6 2,4-Dichlorophenylacetic acid							a
1	6.605	6.604	0.001	199916295	1.00	1.01	a
2	6.754	6.752	0.002	1320744257	1.00	1.06	a
						RPD = 4.72	
7 Dicamba							a
1	6.643	6.642	0.001	540043675	0.5000	0.5480	a
2	6.836	6.833	0.003	2436964400	0.5000	0.5495	a
						RPD = 0.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							a
1	6.794	6.789	0.005	65821733	100.0	101.5	a
2	6.885	6.880	0.005	369583811	100.0	99.0	a
						RPD = 2.50	
9 MCPA							a
1	6.922	6.916	0.006	78220442	100.0	92.2	a
2	7.084	7.078	0.006	724807549	100.0	96.7	a
						RPD = 4.75	
10 Dichlorprop							a
1	7.103	7.102	0.001	260988077	1.00	1.02	a
2	7.225	7.223	0.002	1282238794	1.00	1.05	a
						RPD = 2.77	
11 2,4-D							a
1	7.246	7.246	0.000	328562078	1.00	1.04	a
2	7.444	7.443	0.001	1629748617	1.00	1.12	a
						RPD = 6.99	
12 Pentachlorophenol							a
1	7.597	7.594	0.003	1535573734	0.2500	0.3030	a
2	7.642	7.637	0.005	4549801262	0.2500	0.2698	a
						RPD = 11.60	
13 Silvex (2,4,5-TP)							a
1	7.693	7.692	0.001	528834758	0.2500	0.2826	a
2	7.777	7.774	0.003	1933247676	0.2500	0.2882	a
						RPD = 1.94	
14 Chloramben							a
1	7.772	7.770	0.002	2025978443	1.00	1.24	a
2	8.084	8.081	0.003	5823384953	1.00	1.08	a
						RPD = 13.91	
15 2,4,5-T							a
1	7.848	7.848	0.000	498225713	0.2500	0.2672	a
2	8.009	8.008	0.001	1819790712	0.2500	0.2920	a
						RPD = 8.87	
16 2,4-DB							a
1	8.090	8.091	-0.001	193274970	1.00	1.10	a
2	8.223	8.222	0.001	849802206	1.00	0.9682	a
						RPD = 12.47	
17 Dinoseb							a
1	8.146	8.144	0.002	1314025484	1.00	1.19	a
2	8.178	8.173	0.005	4034212367	1.00	1.23	a
						RPD = 3.50	
18 Bentazon							a
1	8.218	8.218	0.000	270773698	1.00	1.05	a
2	8.582	8.578	0.004	824414003	1.00	1.11	a
						RPD = 5.11	
19 Picloram							Ma
1	8.436	8.433	0.003	3621817547	1.00	1.36	a
2	8.920	8.913	0.007	11034840048	1.00	1.33	M
						RPD = 1.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							a
1	8.541	8.537	0.004	3595185453	1.00	1.27	a
2	8.699	8.692	0.007	9277203223	1.00	1.04	a
						RPD = 19.55	
21 Acifluorfen							a
1	9.580	9.577	0.003	2794380058	1.00	1.37	a
2	9.718	9.710	0.008	8638829439	1.00	1.05	a
						RPD = 26.75	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

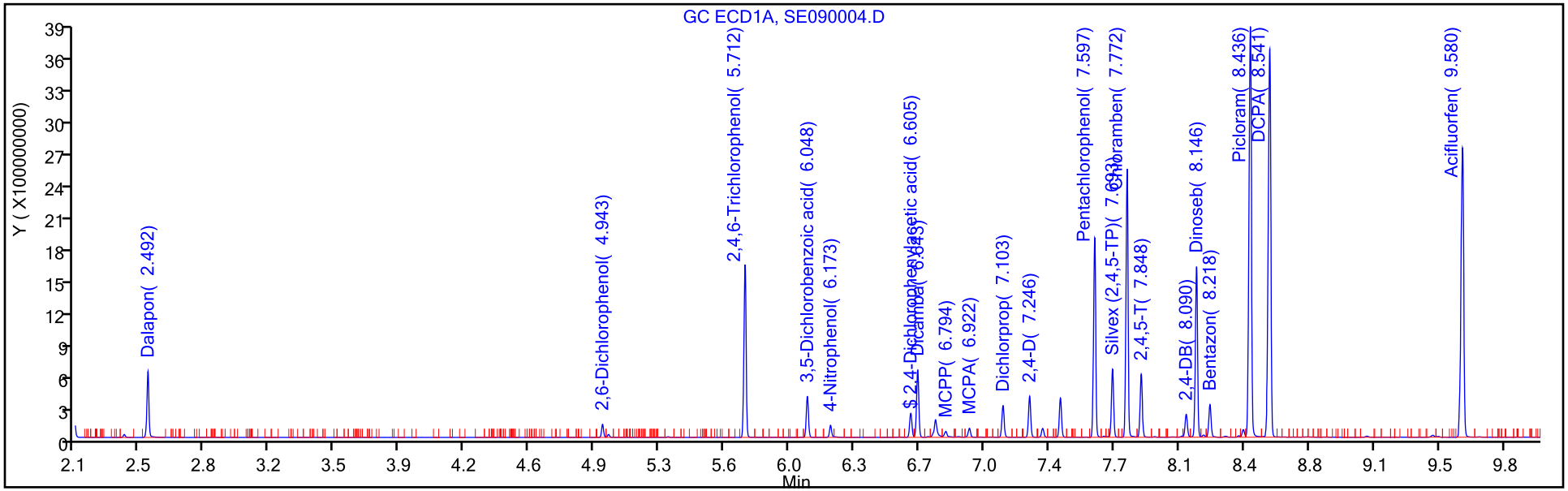
Report Date: 10-May-2018 10:32:10 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

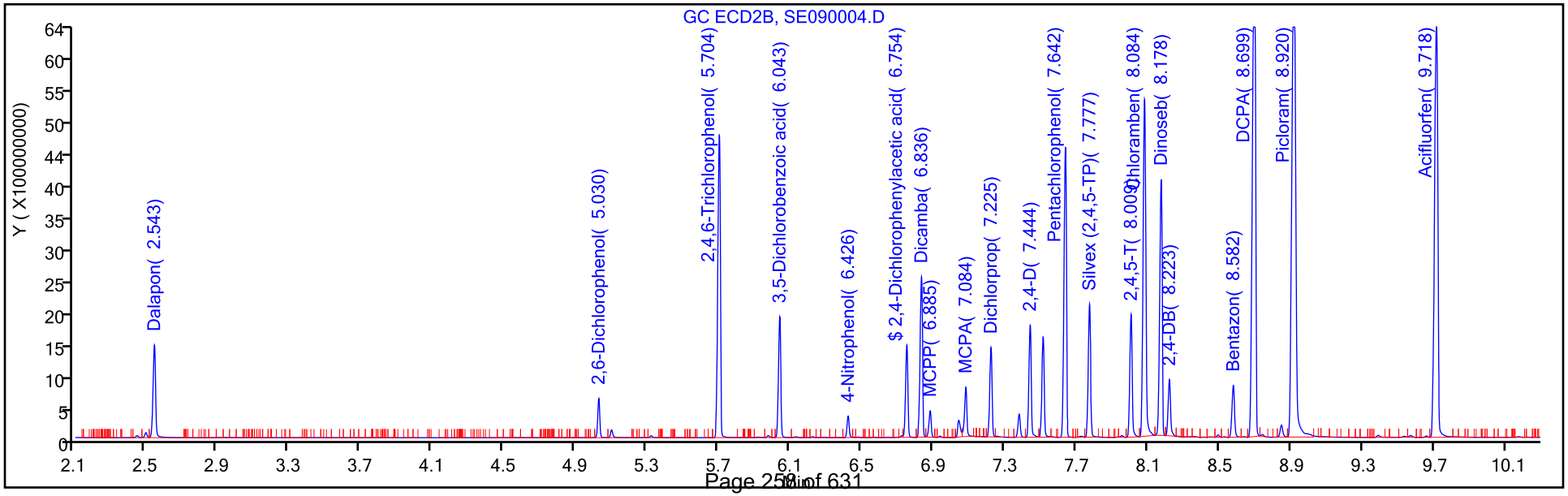
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

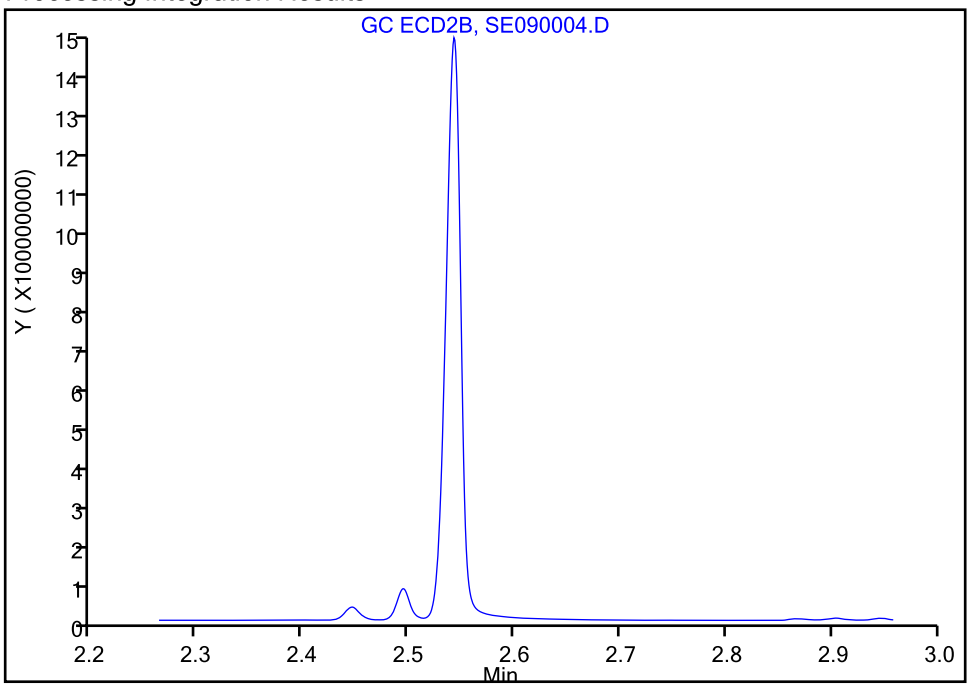
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

1 Dalapon, CAS: 75-99-0

Signal: 2

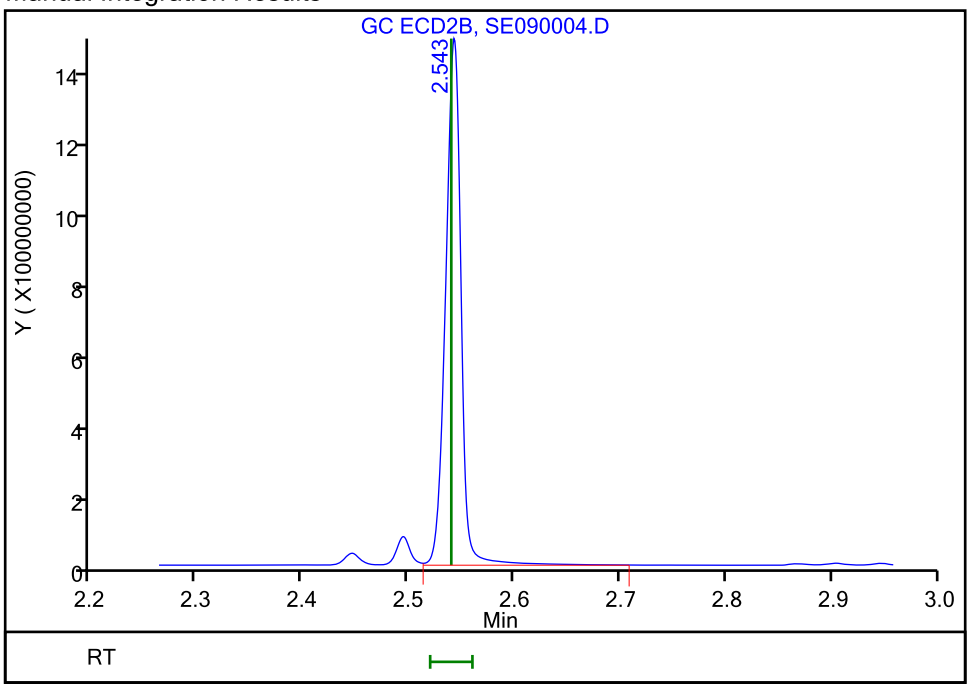
Not Detected
Expected RT: 2.54

Processing Integration Results



Manual Integration Results

RT: 2.54
Area: 1486390376
Amount: 1.054726
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:49:54
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

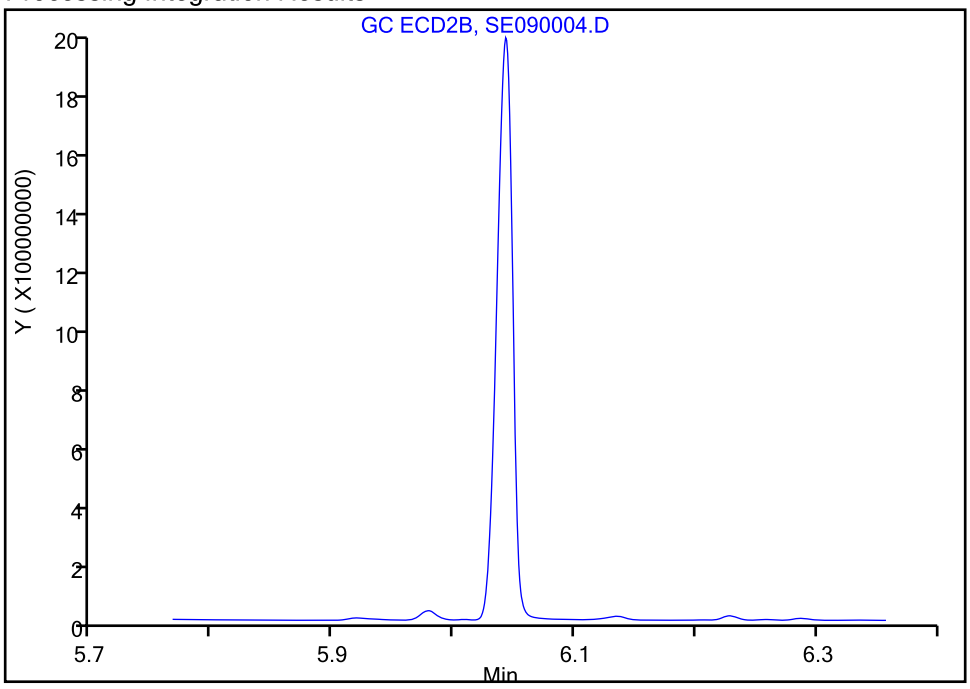
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

4 3,5-Dichlorobenzoic acid, CAS: 51-36-5

Signal: 2

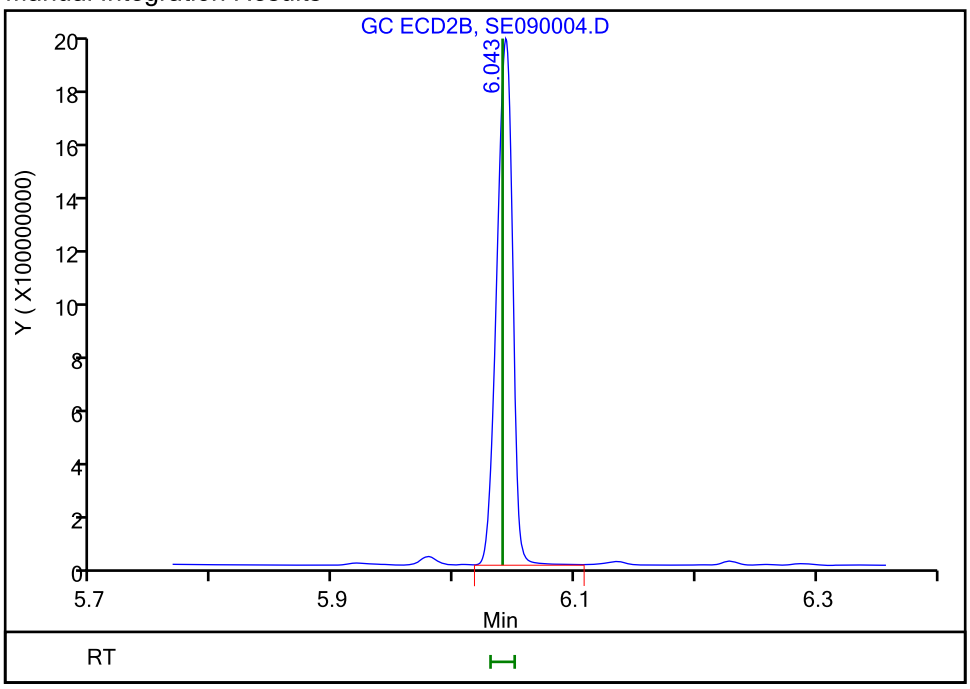
Not Detected
Expected RT: 6.04

Processing Integration Results



Manual Integration Results

RT: 6.04
Area: 1744604922
Amount: 1.078610
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:06
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

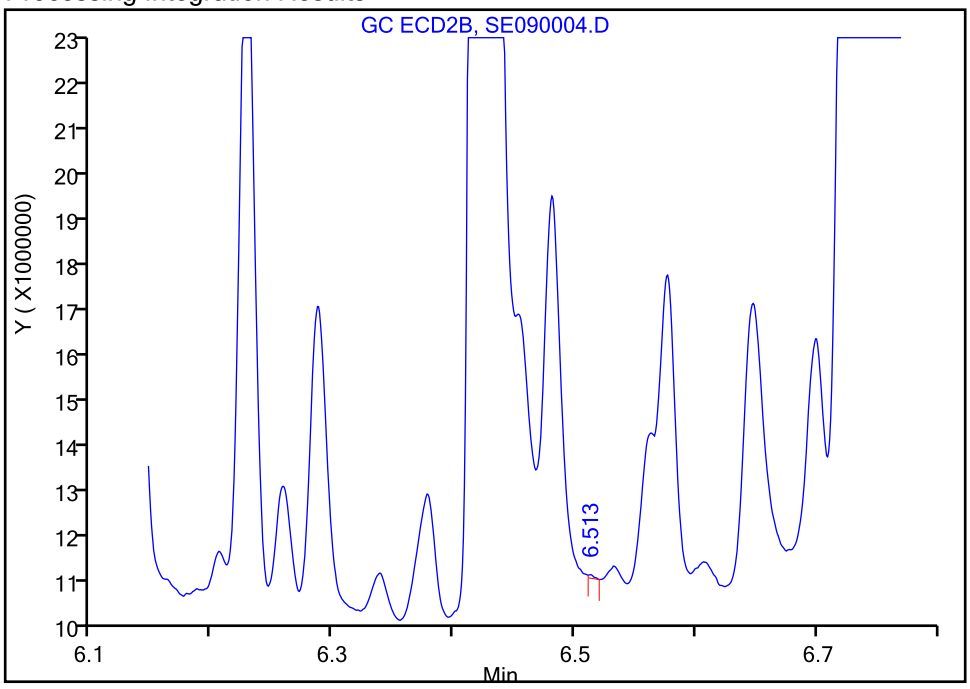
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Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

5 4-Nitrophenol, CAS: 100-02-7

Signal: 2

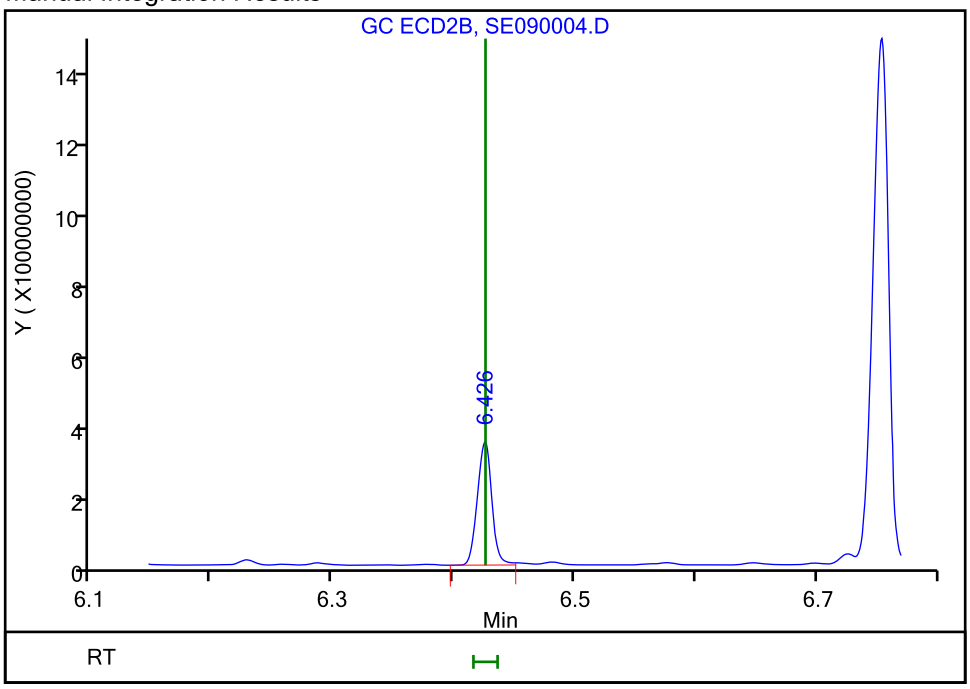
Processing Integration Results

RT: 6.51
Area: 23223
Amount: 1.000000
Amount Units: ug/ml



Manual Integration Results

RT: 6.43
Area: 285656847
Amount: 0.918238
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:10
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

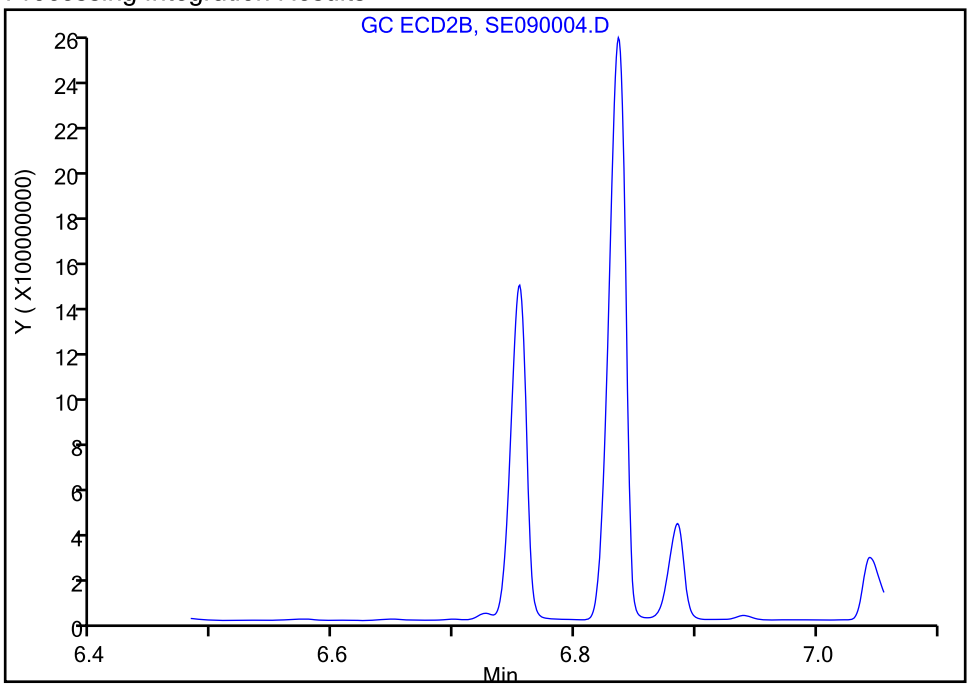
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

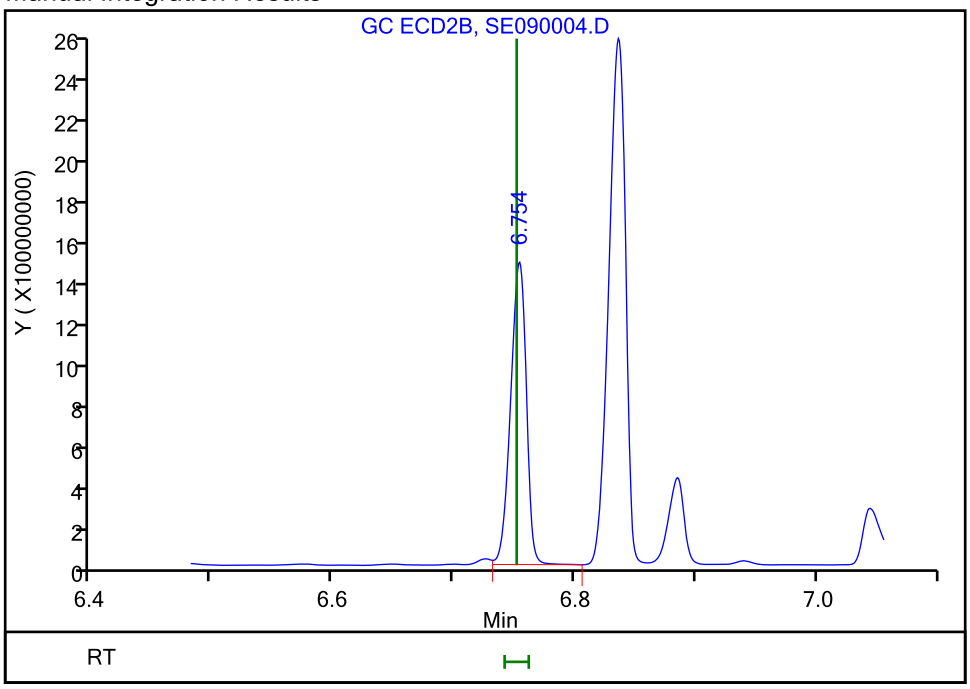
Not Detected
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.75
Area: 1320744257
Amount: 1.061479
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:14
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

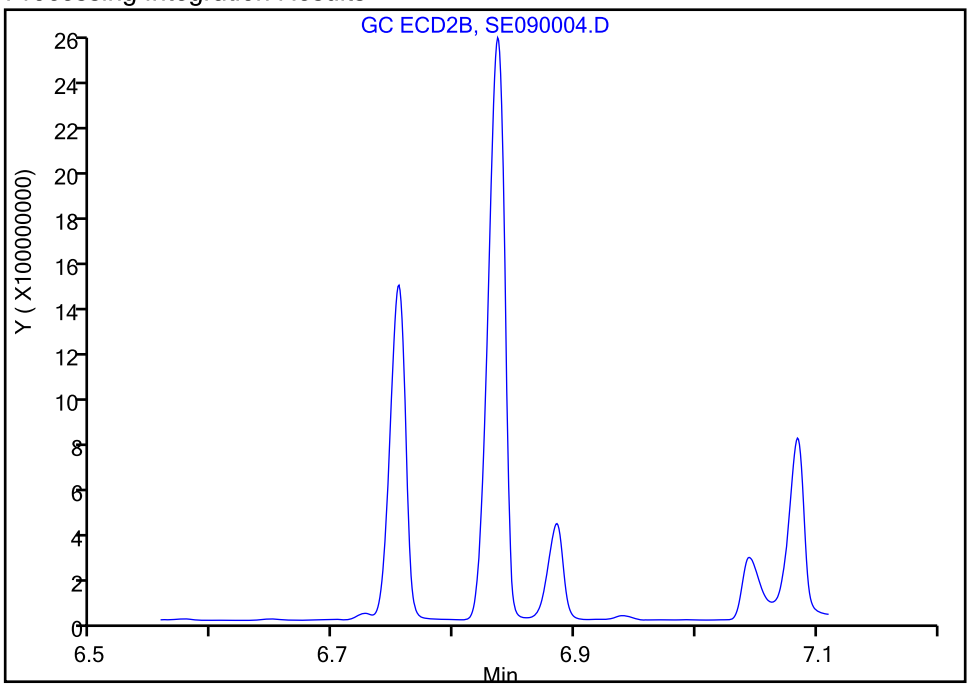
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Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

7 Dicamba, CAS: 1918-00-9

Signal: 2

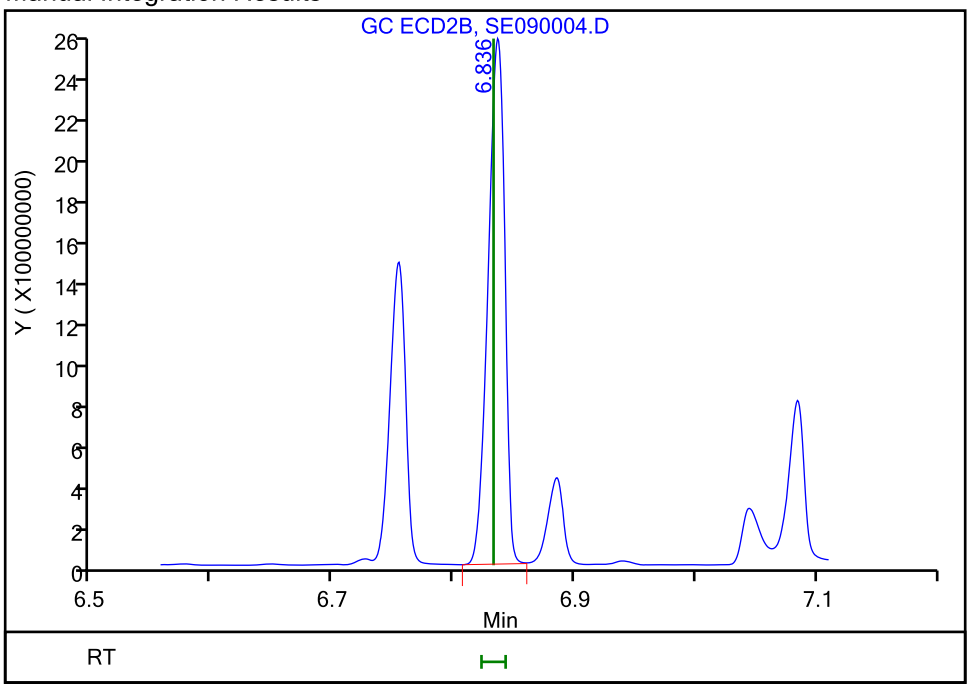
Not Detected
Expected RT: 6.83

Processing Integration Results



Manual Integration Results

RT: 6.84
Area: 2436964400
Amount: 0.549521
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:18
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

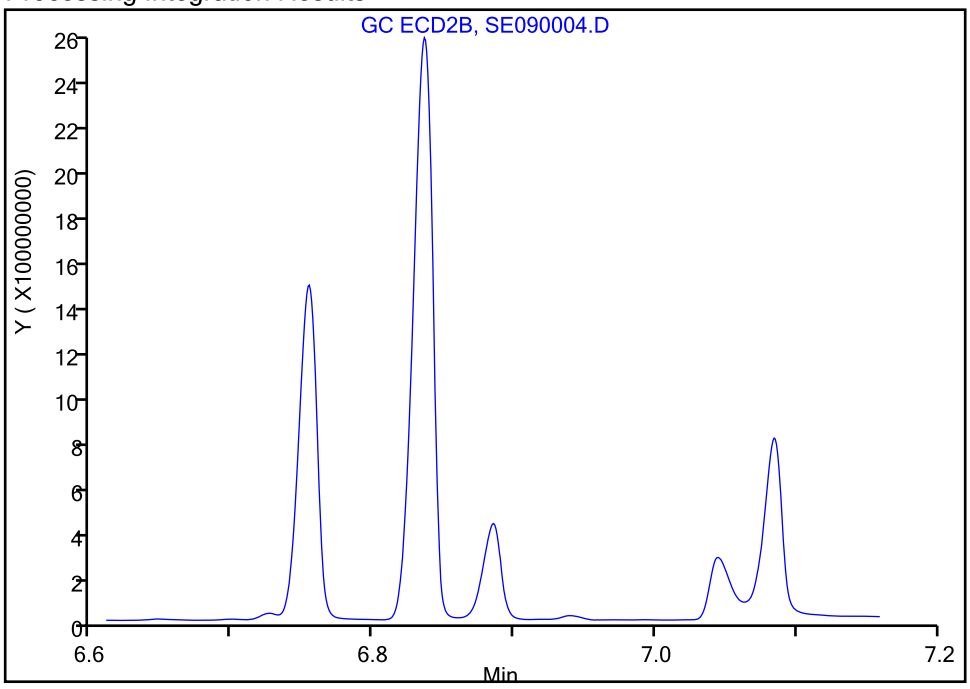
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

8 MCPP, CAS: 93-65-2

Signal: 2

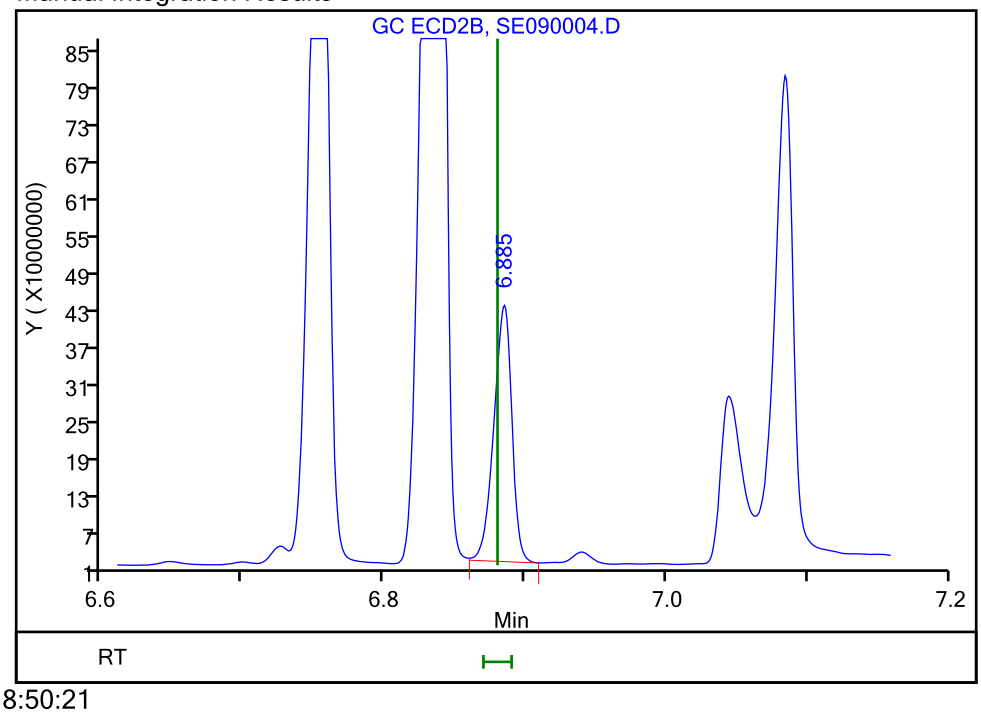
Not Detected
Expected RT: 6.88

Processing Integration Results



Manual Integration Results

RT: 6.89
Area: 369583811
Amount: 98.964128
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:21
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

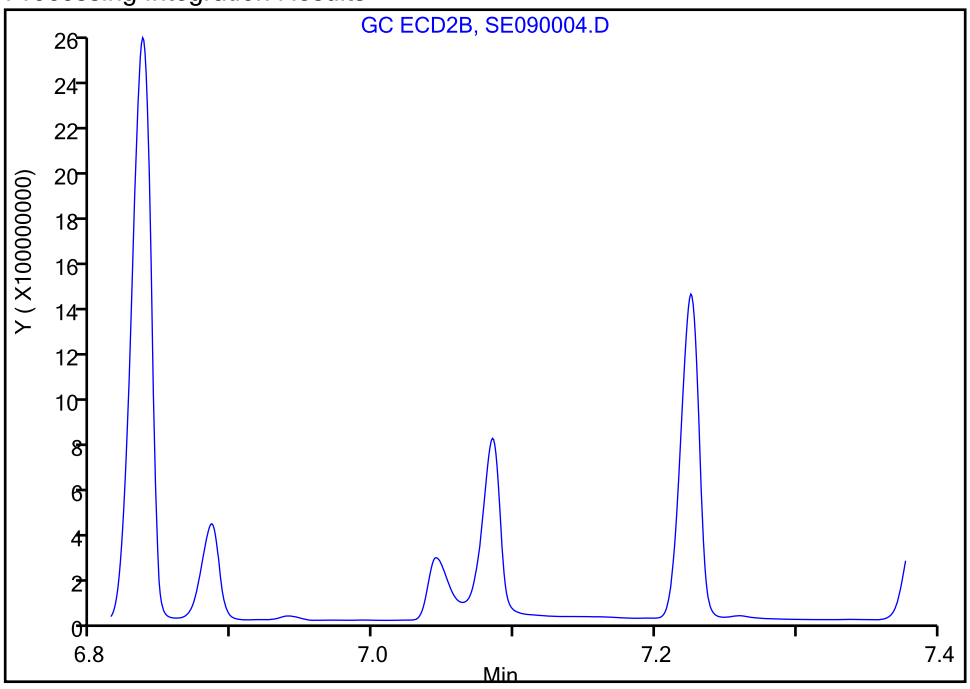
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

9 MCPA, CAS: 94-74-6

Signal: 2

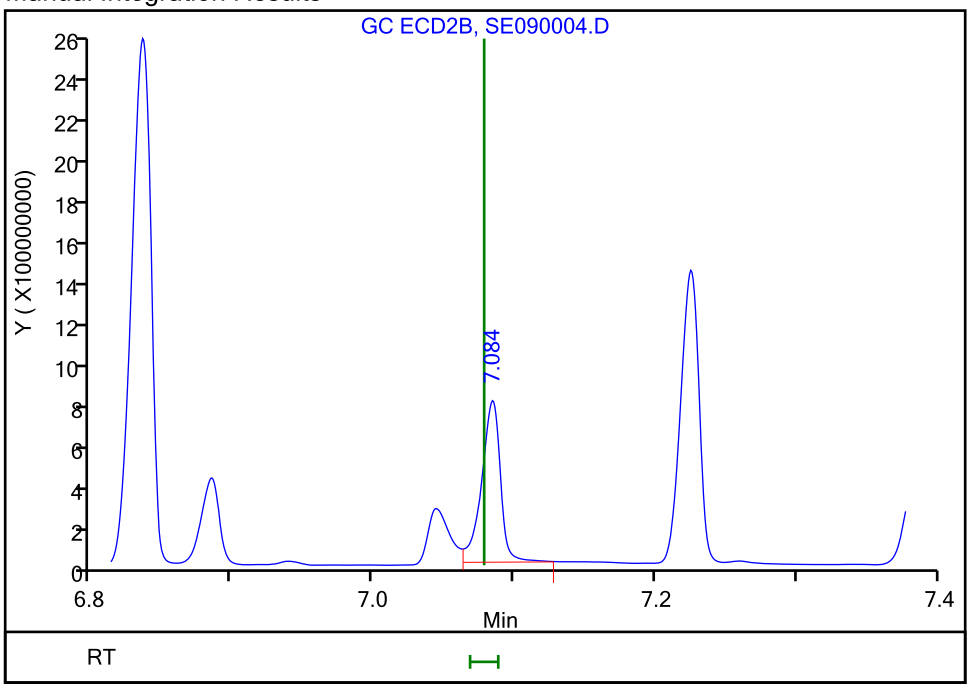
Not Detected
Expected RT: 7.08

Processing Integration Results



Manual Integration Results

RT: 7.08
Area: 724807549
Amount: 96.726155
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:23
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

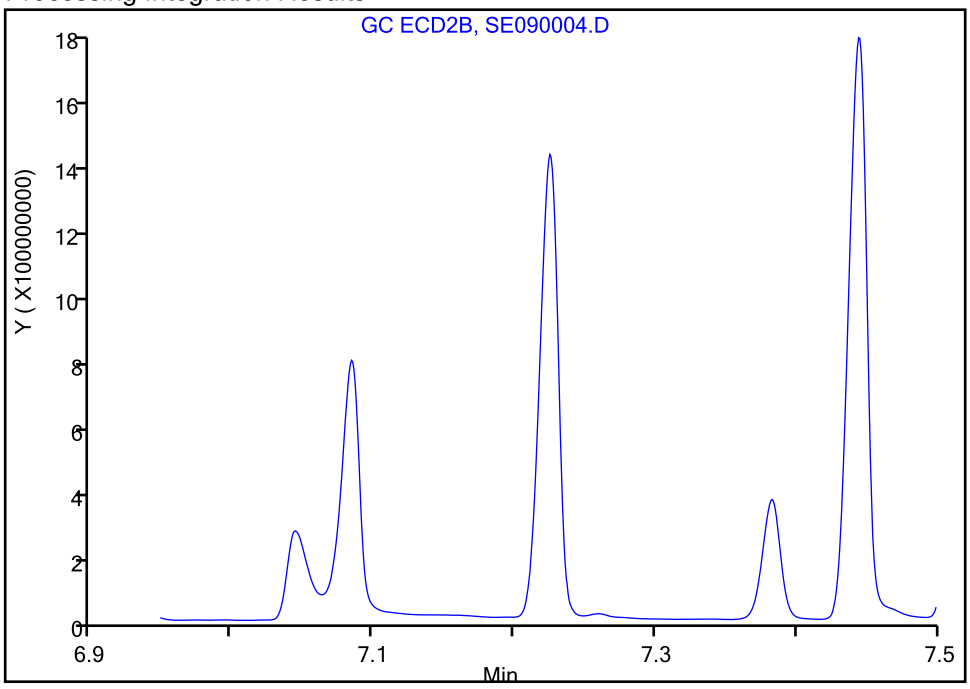
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

10 Dichlorprop, CAS: 120-36-5

Signal: 2

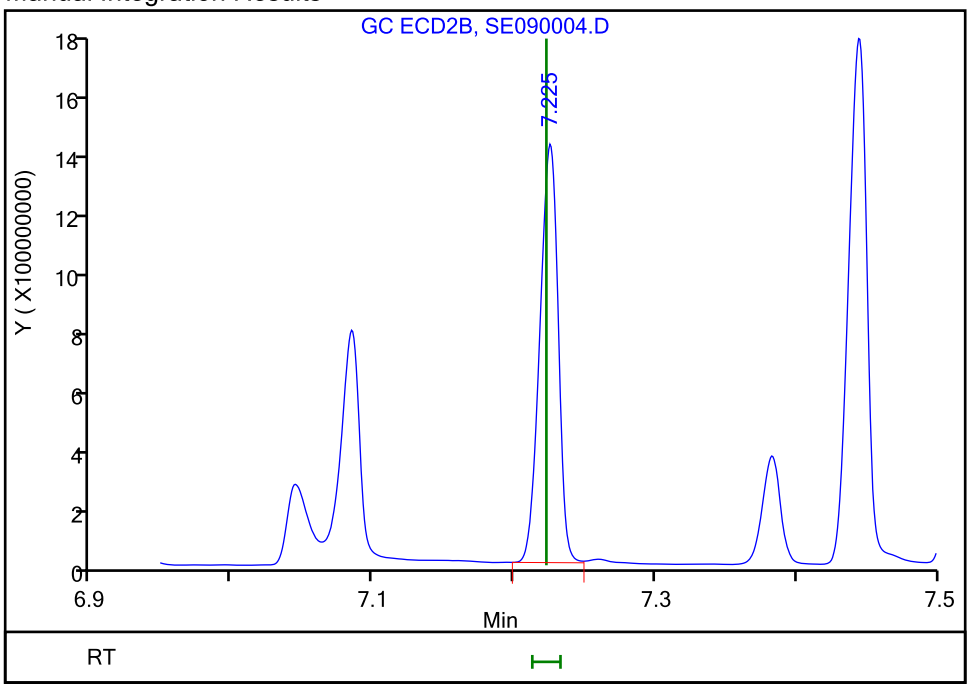
Not Detected
Expected RT: 7.22

Processing Integration Results



Manual Integration Results

RT: 7.23
Area: 1282238794
Amount: 1.047544
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:31
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

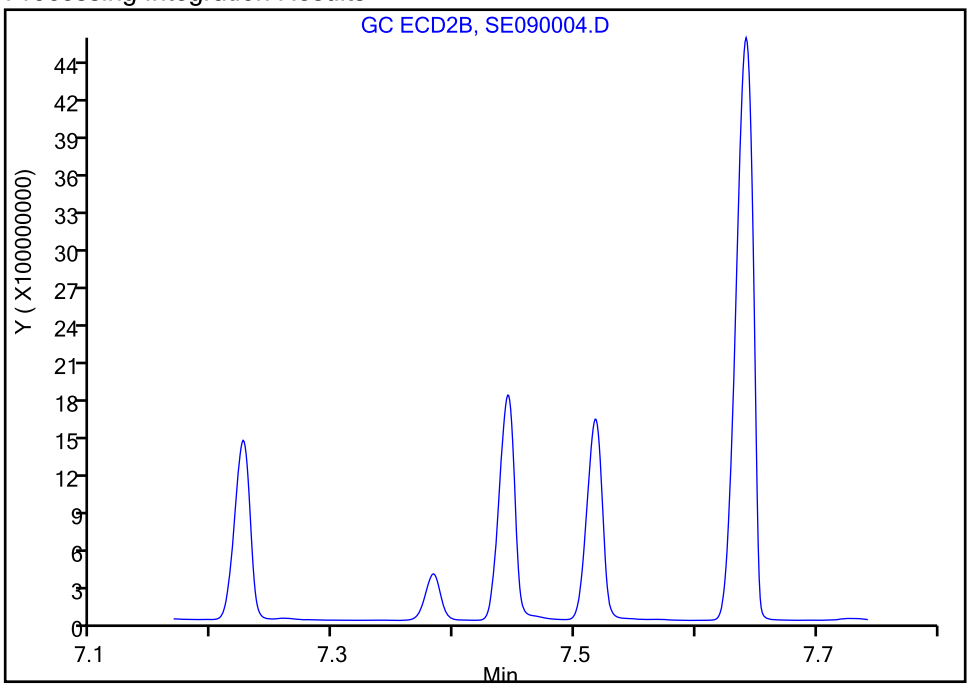
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

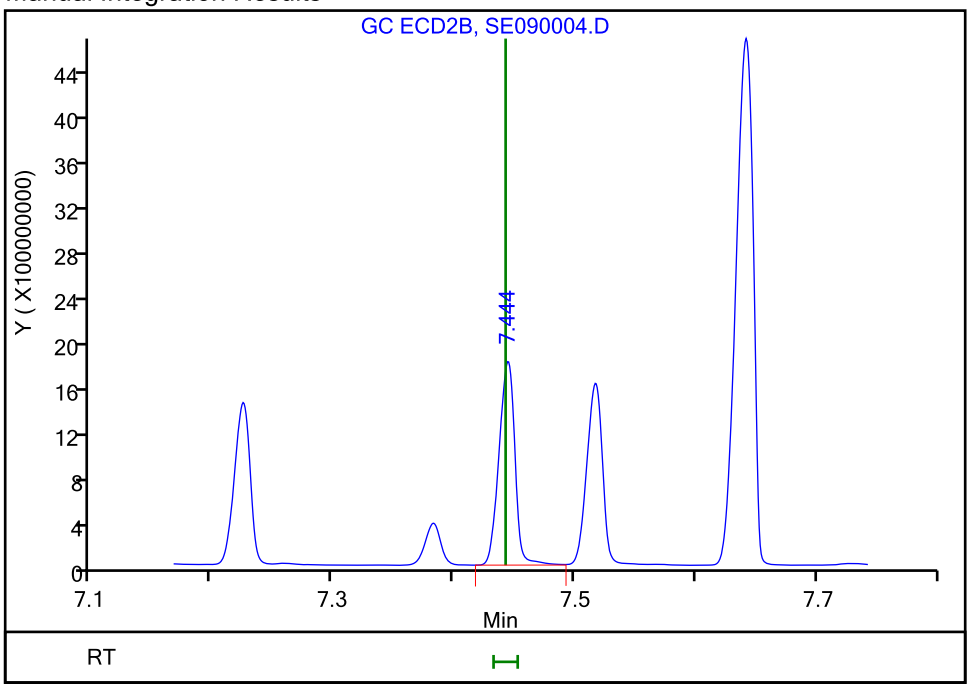
Not Detected
Expected RT: 7.44

Processing Integration Results



Manual Integration Results

RT: 7.44
Area: 1629748617
Amount: 1.116407
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:35
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

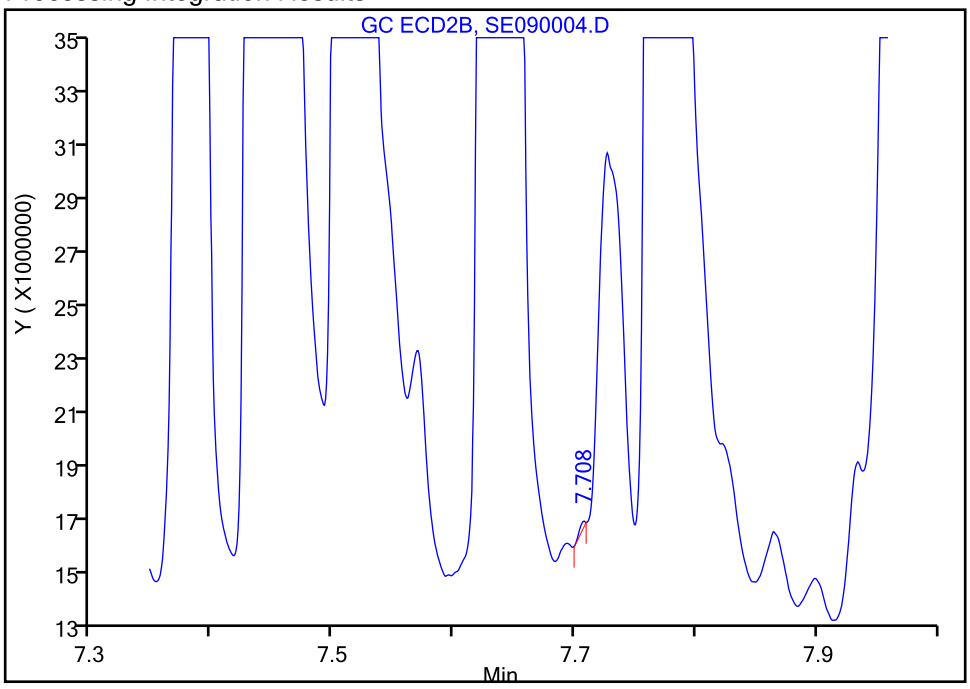
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

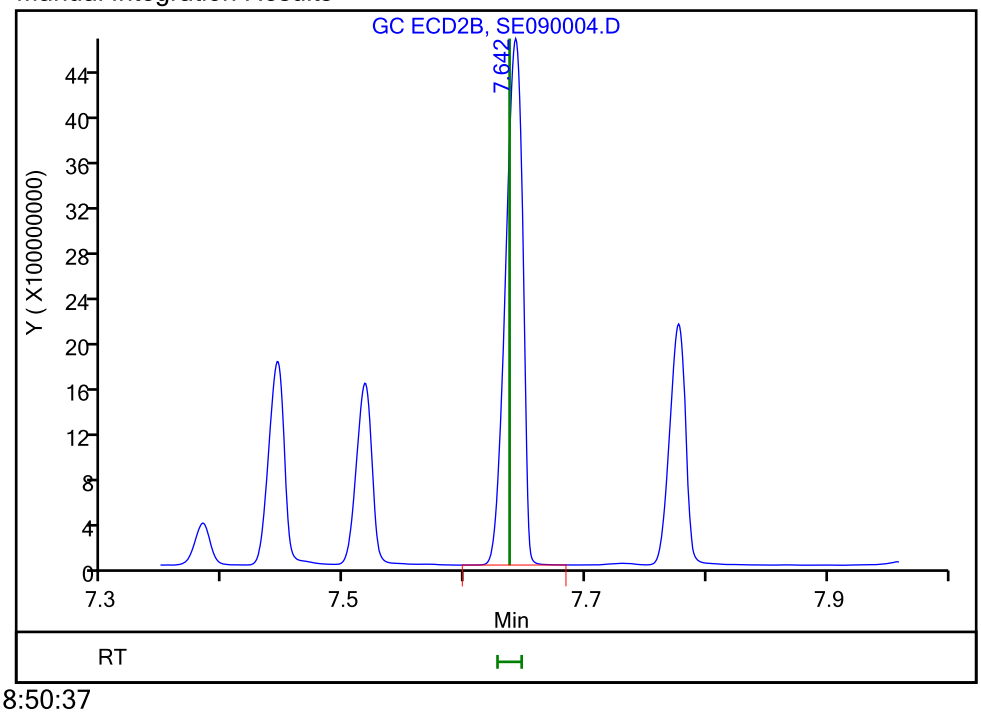
Processing Integration Results

RT: 7.71
Area: 91366
Amount: 0.027231
Amount Units: ug/ml



Manual Integration Results

RT: 7.64
Area: 4549801262
Amount: 0.269778
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:37
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

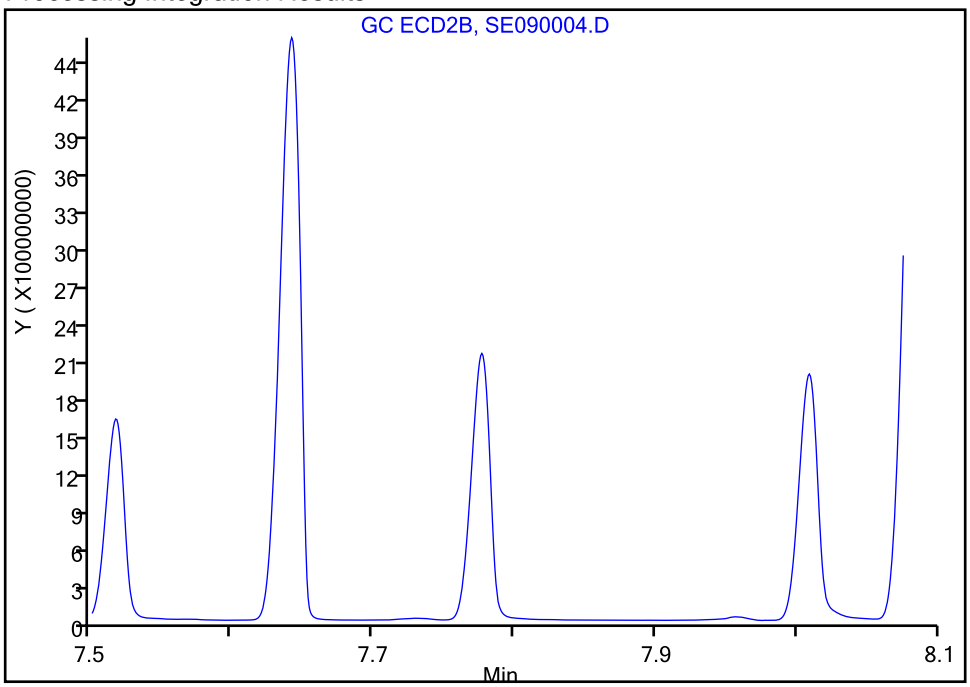
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

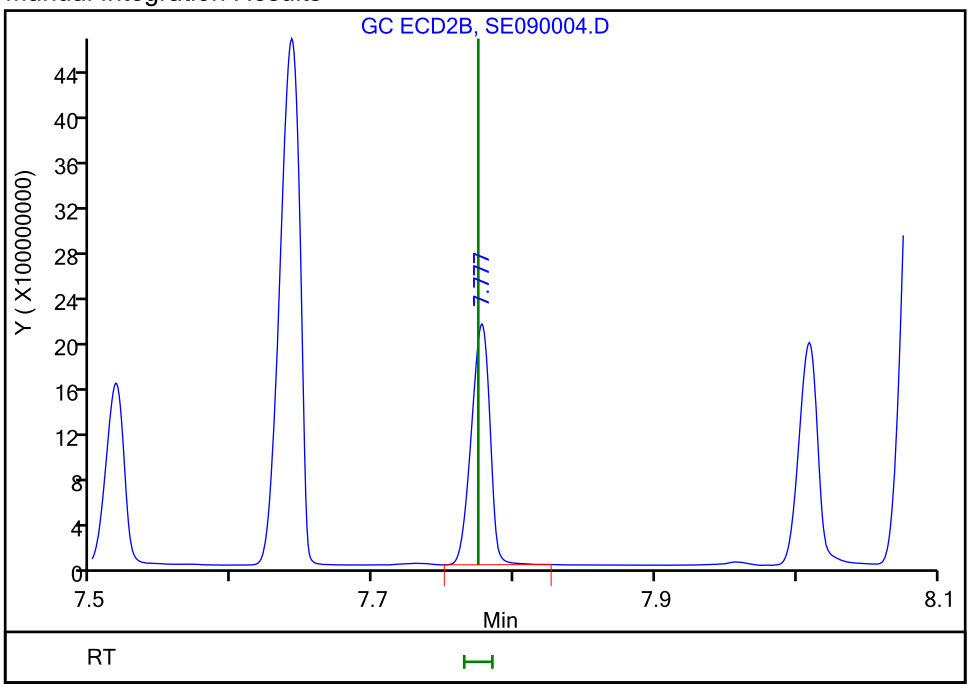
Not Detected
Expected RT: 7.77

Processing Integration Results



Manual Integration Results

RT: 7.78
Area: 1933247676
Amount: 0.288155
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:42
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

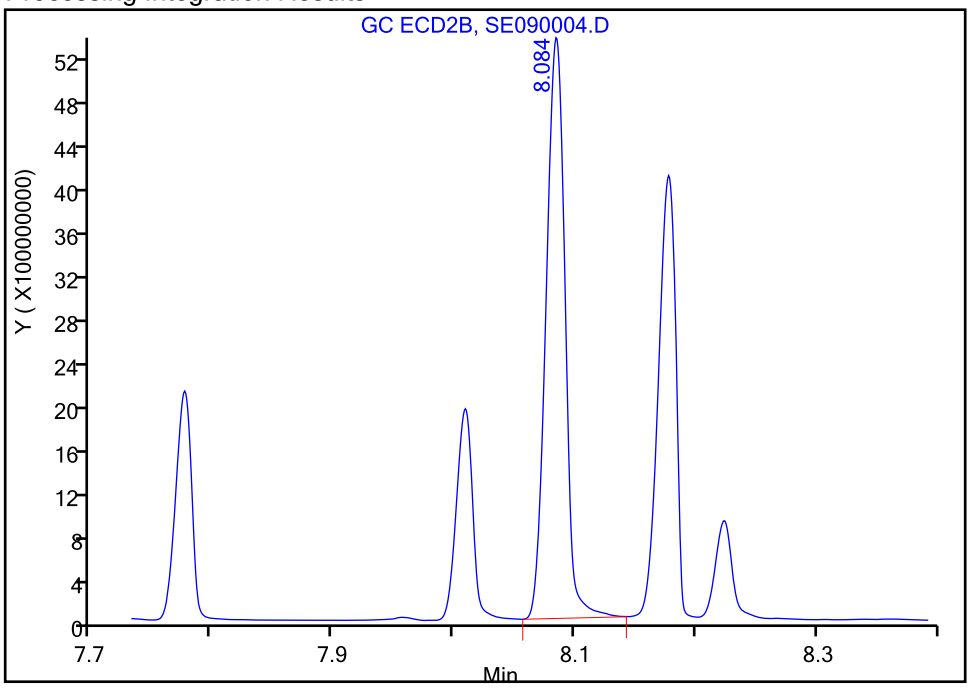
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

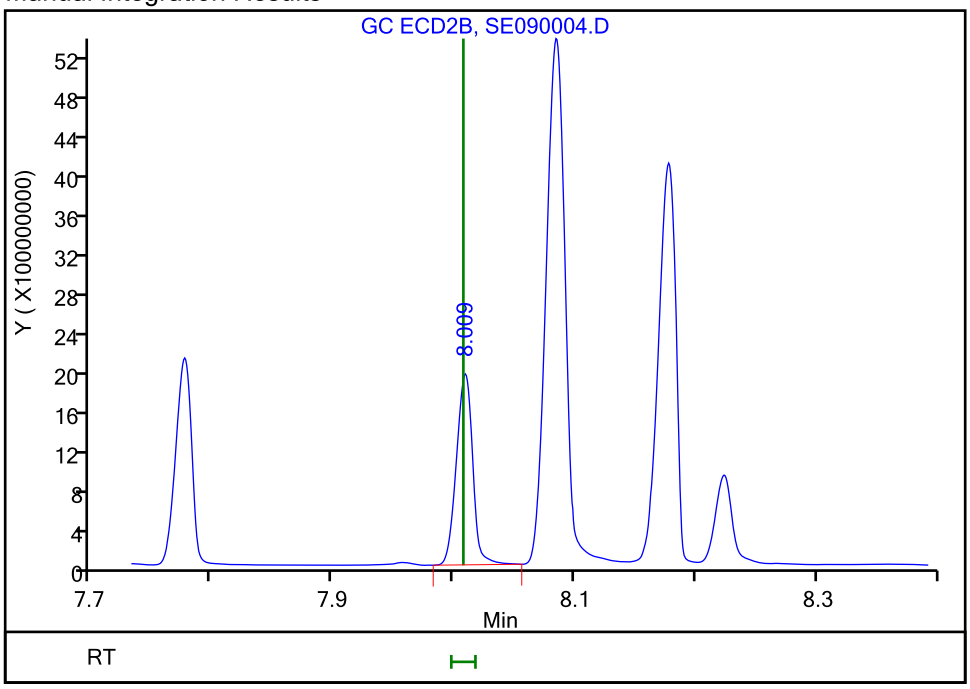
Processing Integration Results

RT: 8.08
Area: 5823384953
Amount: 0.240628
Amount Units: ug/ml



Manual Integration Results

RT: 8.01
Area: 1819790712
Amount: 0.292031
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:52
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

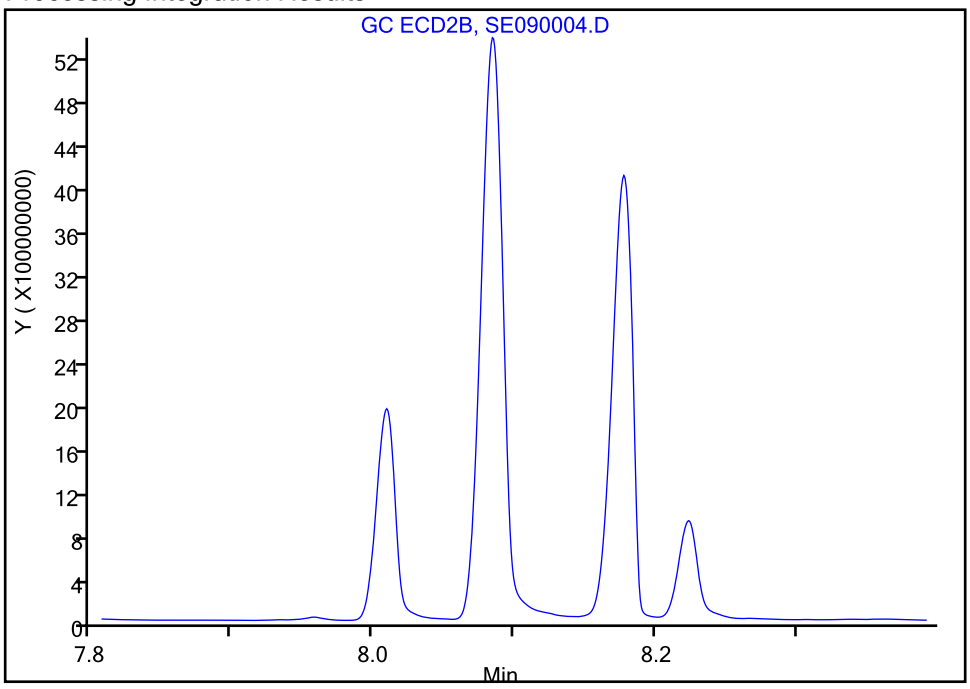
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

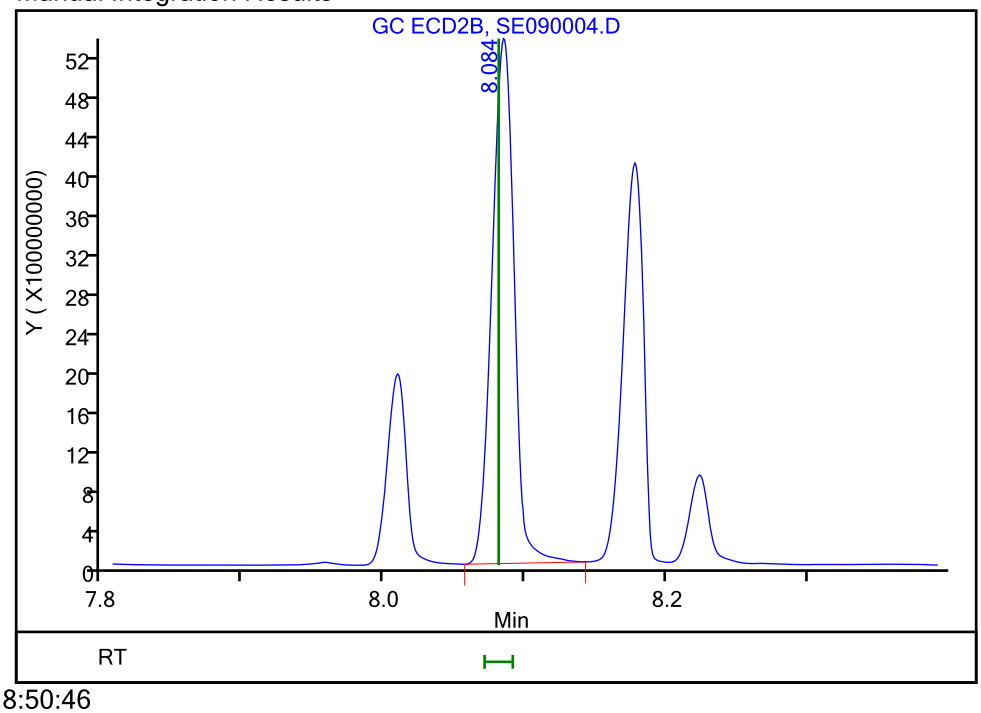
Not Detected
Expected RT: 8.08

Processing Integration Results



Manual Integration Results

RT: 8.08
Area: 5823384953
Amount: 1.075558
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:46
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

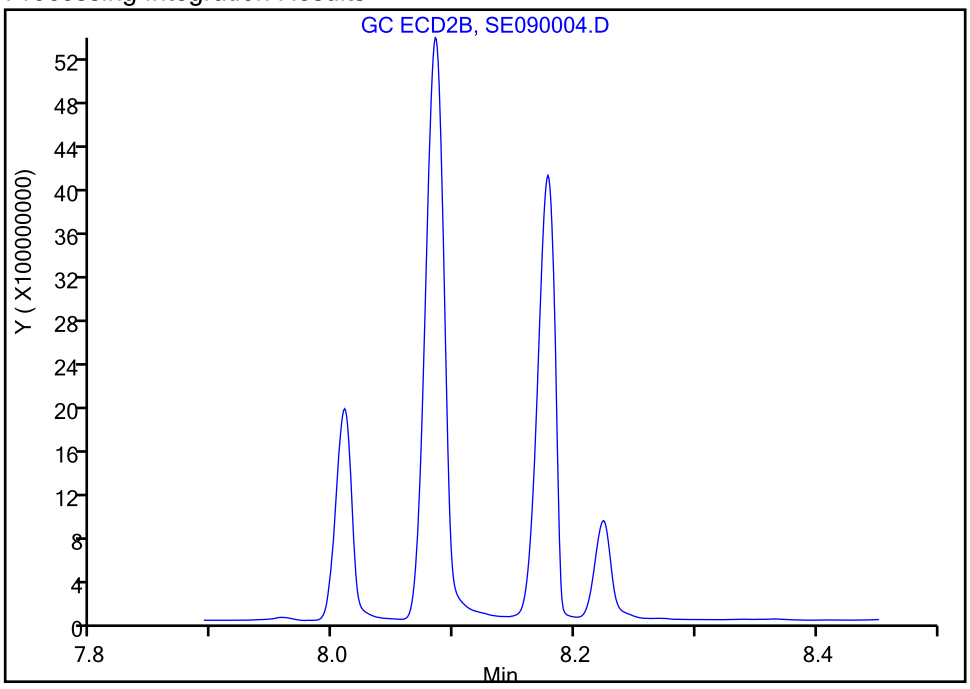
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

17 Dinoseb, CAS: 88-85-7

Signal: 2

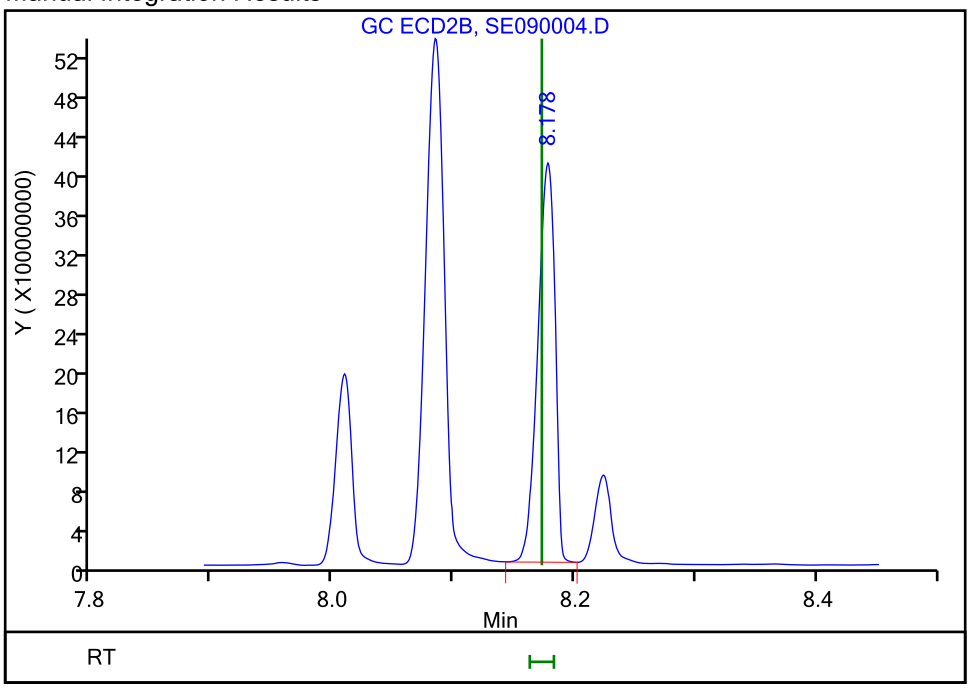
Not Detected
Expected RT: 8.17

Processing Integration Results



Manual Integration Results

RT: 8.18
Area: 4034212367
Amount: 1.229741
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:51:00
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

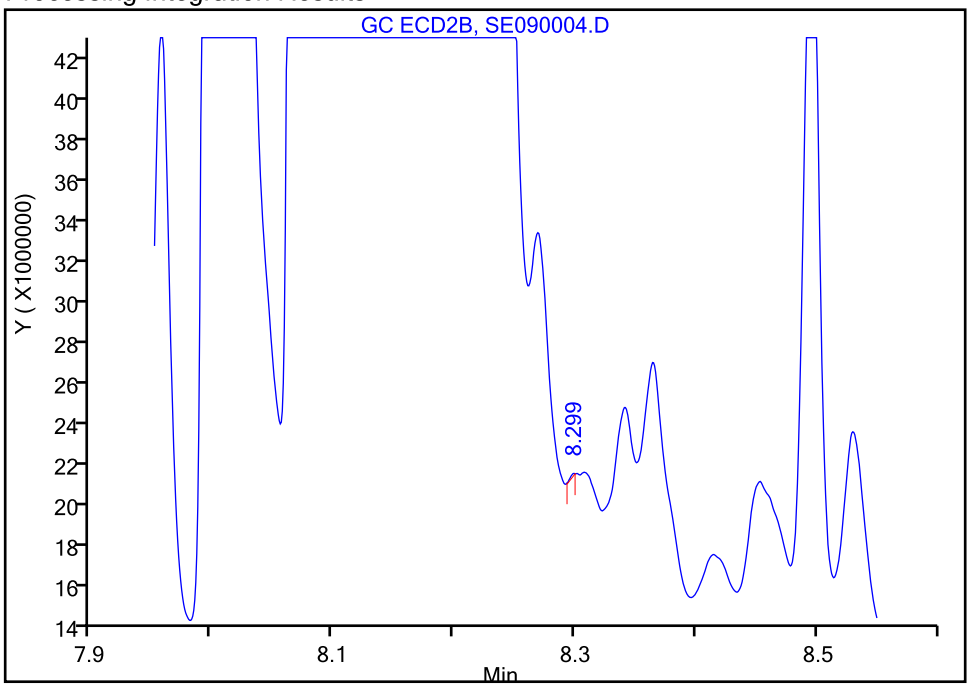
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

16 2,4-DB, CAS: 94-82-6

Signal: 2

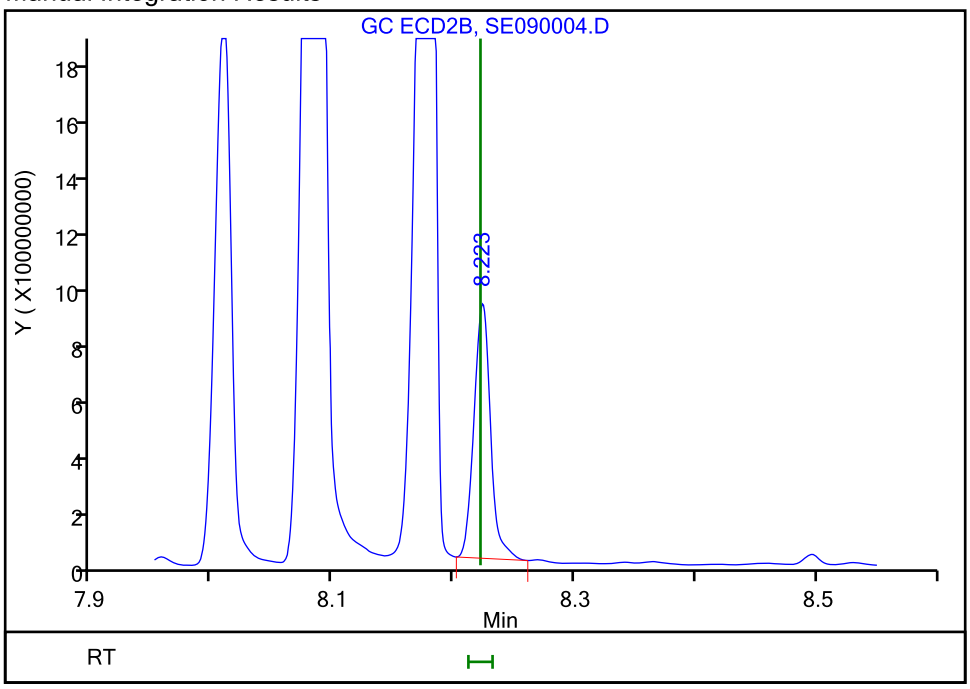
Processing Integration Results

RT: 8.30
Area: 39346
Amount: 0.006885
Amount Units: ug/ml



Manual Integration Results

RT: 8.22
Area: 849802206
Amount: 0.968173
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:50:56
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

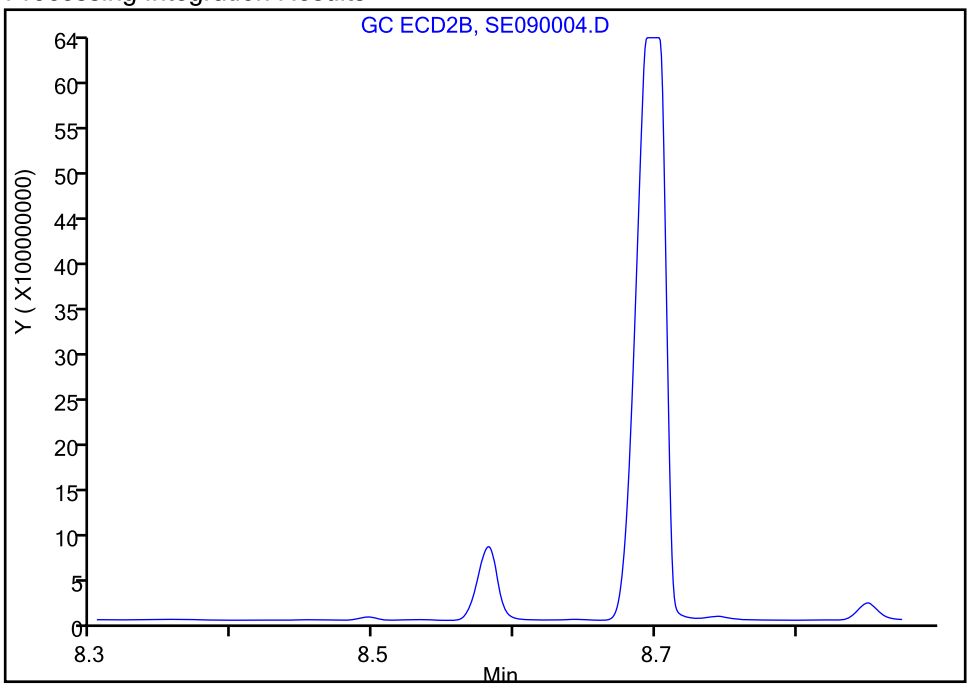
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

18 Bentazon, CAS: 25057-89-0

Signal: 2

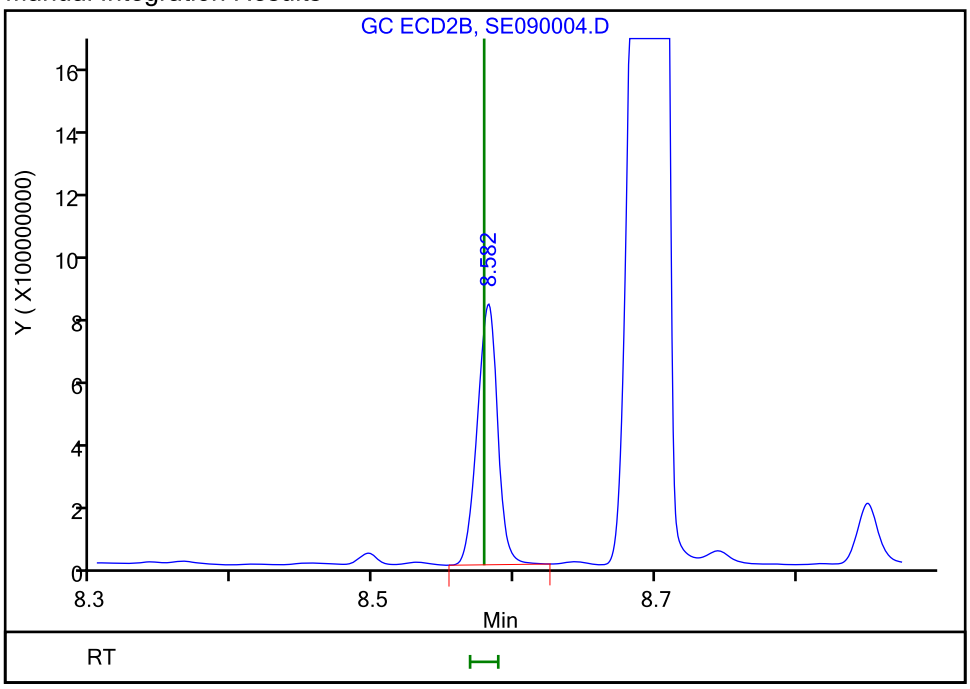
Not Detected
Expected RT: 8.58

Processing Integration Results



Manual Integration Results

RT: 8.58
Area: 824414003
Amount: 1.107335
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:51:04
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Savannah

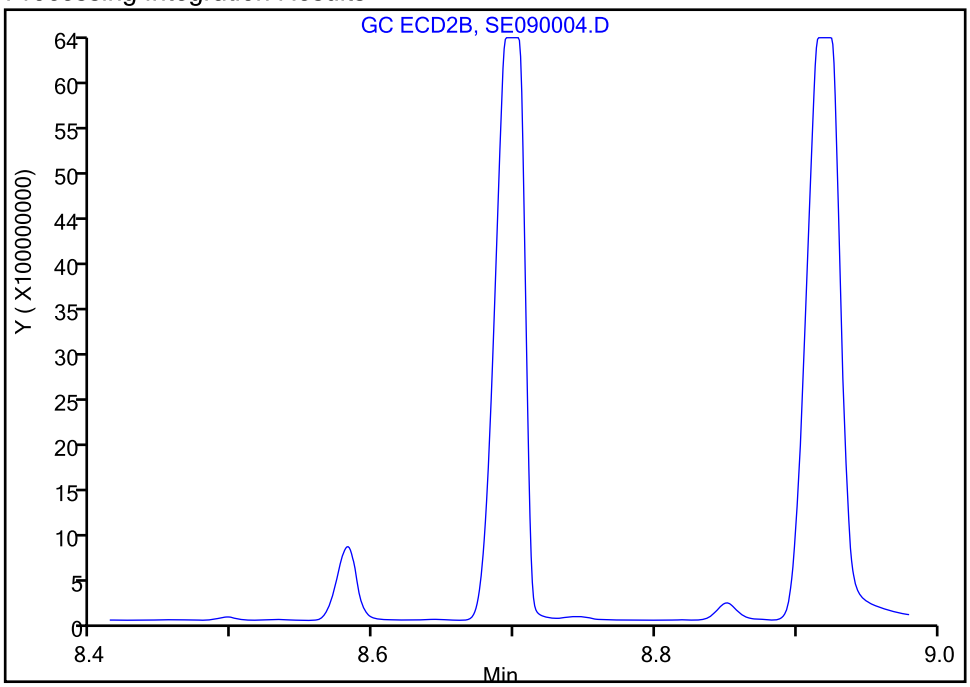
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D				
Injection Date:	09-May-2018 17:59:52	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

20 DCPA, CAS: 1861-32-1

Signal: 2

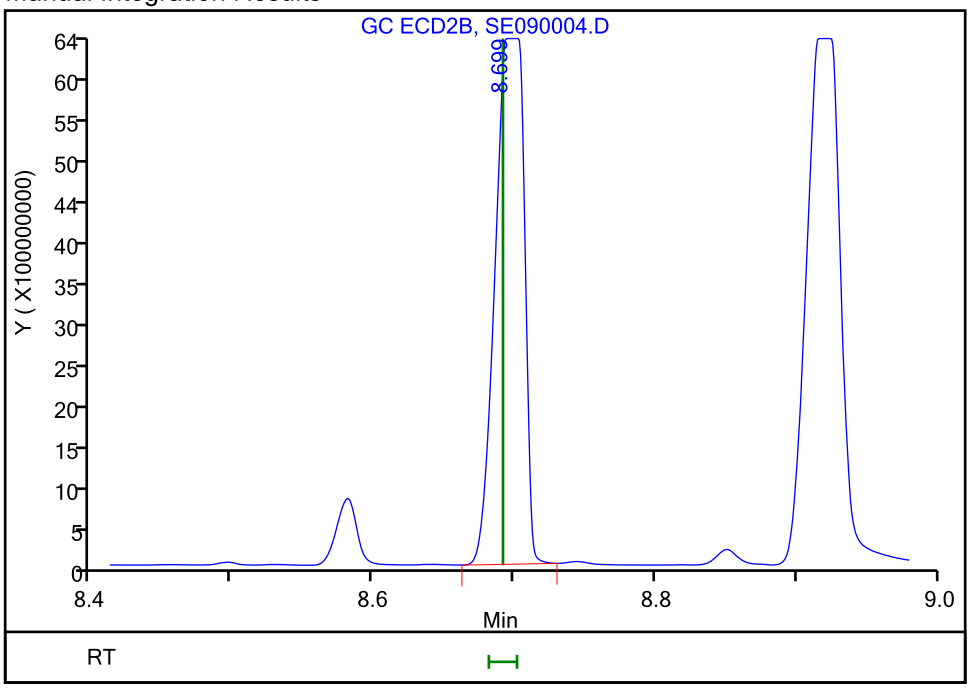
Not Detected
Expected RT: 8.69

Processing Integration Results



Manual Integration Results

RT: 8.70
Area: 9277203223
Amount: 1.041649
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:51:10
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah

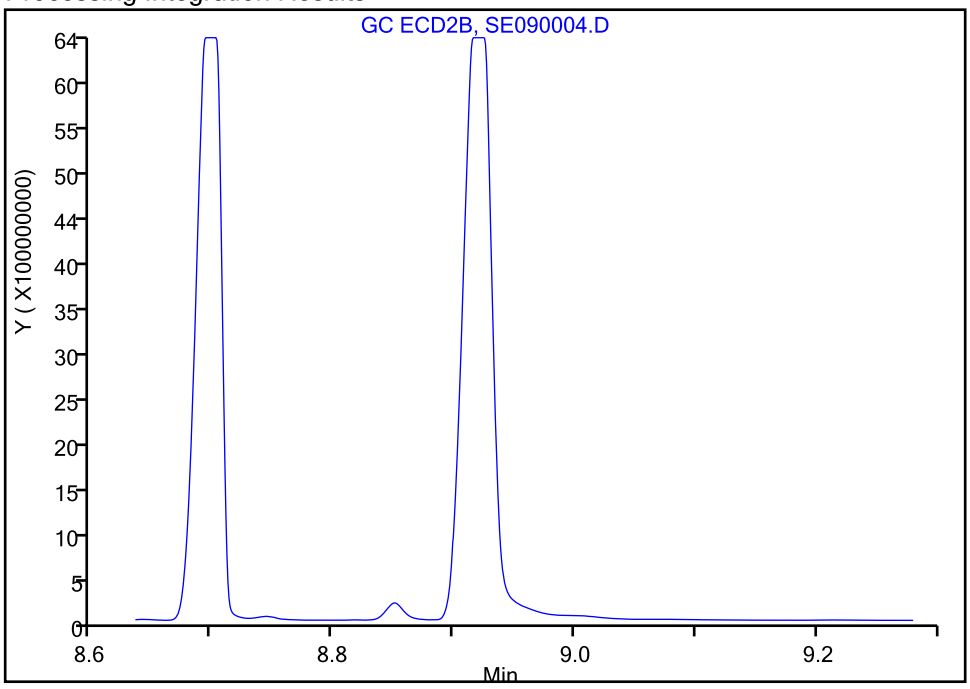
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

19 Picloram, CAS: 1918-02-1

Signal: 2

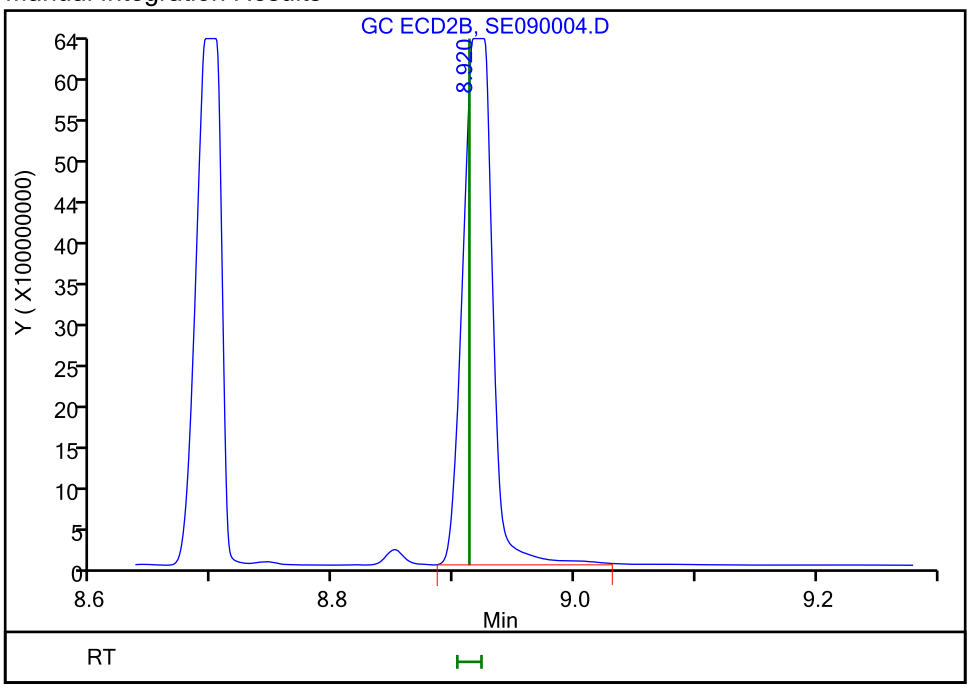
Not Detected
Expected RT: 8.91

Processing Integration Results



Manual Integration Results

RT: 8.92
Area: 11034840048
Amount: 1.331795
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:51:20
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Savannah

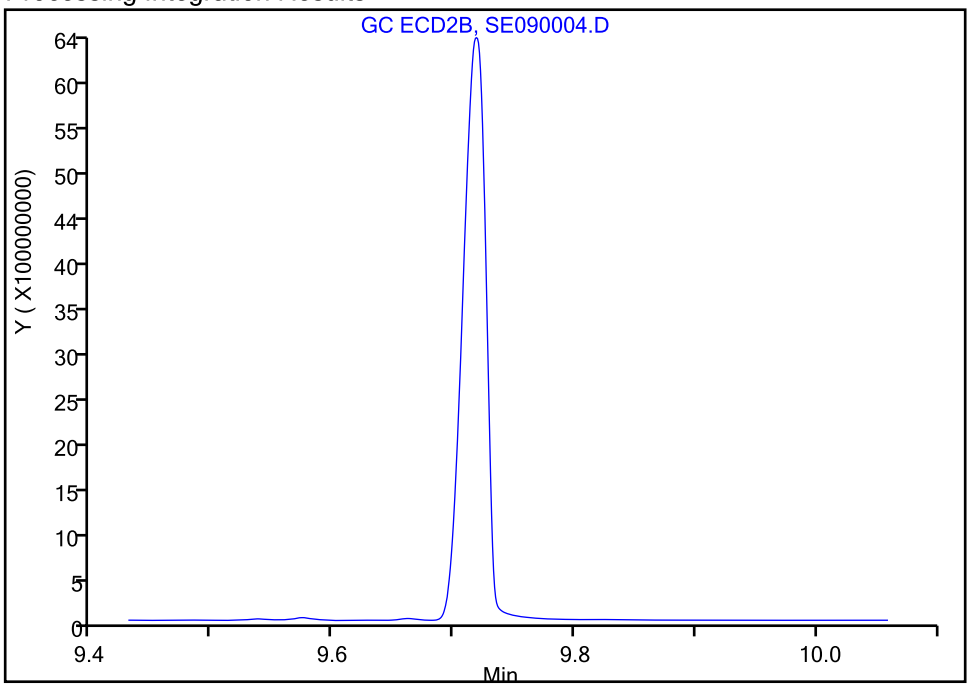
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090004.D
Injection Date: 09-May-2018 17:59:52 Instrument ID: CSGS
Lims ID: ic h8
Client ID:
Operator ID: GEM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

21 Acifluorfen, CAS: 50594-66-6

Signal: 2

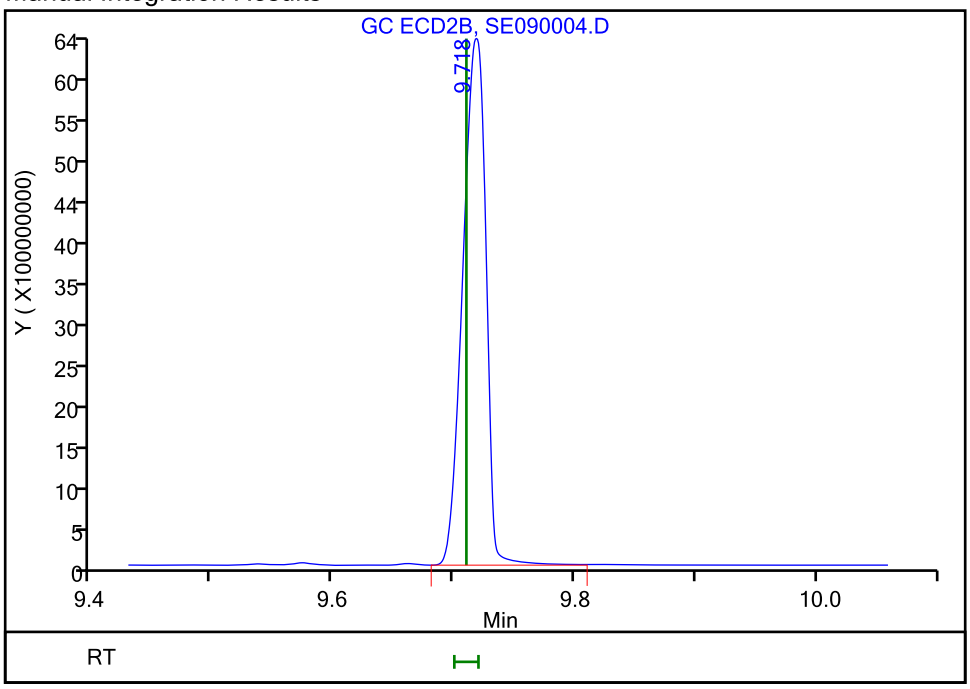
Not Detected
Expected RT: 9.71

Processing Integration Results



Manual Integration Results

RT: 9.72
Area: 8638829439
Amount: 1.049317
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 18:51:15
Audit Action: Assigned Compound ID Audit Reason:

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-May-2018 18:19:23 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:20 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 18:52:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.492	2.491	0.001	240788645	0.5000	0.5017	
2	2.542	2.540	0.002	732221950	0.5000	0.5196	
						RPD = 3.50	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	47814176	NC	NC	
2	5.029	5.028	0.001	251719023	NC	NC	
						RPD = 2.18	
3 2,4,6-Trichlorophenol							
1	5.711	5.710	0.001	646877112	NC	NC	
2	5.703	5.700	0.003	2604837423	NC	NC	
						RPD = 1.58	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	161466175	0.5000	0.5222	
2	6.041	6.040	0.001	851491539	0.5000	0.5264	
						RPD = 0.81	
5 4-Nitrophenol							
1	6.172	6.173	-0.001	46516413	0.5000	0.4672	
2	6.425	6.426	-0.001	143473602	0.5000	0.4612	
						RPD = 1.30	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	99966364	0.5000	0.5063	
2	6.753	6.752	0.001	641182661	0.5000	0.5153	
						RPD = 1.76	
7 Dicamba							
1	6.641	6.642	-0.001	264745935	0.2500	0.2687	
2	6.835	6.833	0.002	1198198735	0.2500	0.2702	
						RPD = 0.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							a
1	6.791	6.789	0.002	31559204	50.0	48.7	a
2	6.882	6.880	0.002	187460762	50.0	49.7	
						RPD = 2.13	
9 MCPA							
1	6.919	6.916	0.003	41163701	50.0	48.5	
2	7.081	7.078	0.003	391405967	50.0	51.8	
						RPD = 6.53	
10 Dichlorprop							
1	7.101	7.102	-0.001	131268795	0.5000	0.5125	
2	7.224	7.223	0.001	619789858	0.5000	0.5063	
						RPD = 1.21	
11 2,4-D							
1	7.246	7.246	0.000	162558325	0.5000	0.5151	
2	7.443	7.443	0.000	776315154	0.5000	0.5318	
						RPD = 3.20	
12 Pentachlorophenol							
1	7.596	7.594	0.002	720360768	0.1250	0.1421	
2	7.640	7.637	0.003	2361098559	0.1250	0.1400	
						RPD = 1.52	
13 Silvex (2,4,5-TP)							
1	7.692	7.692	0.000	259138392	0.1250	0.1385	
2	7.776	7.774	0.002	943300131	0.1250	0.1406	
						RPD = 1.51	
14 Chloramben							
1	7.771	7.770	0.001	942129901	0.5000	0.5749	
2	8.083	8.081	0.002	3138504970	0.5000	0.5797	
						RPD = 0.82	
15 2,4,5-T							
1	7.847	7.848	-0.001	247745545	0.1250	0.1329	
2	8.008	8.008	0.000	877205524	0.1250	0.1408	
						RPD = 5.77	
16 2,4-DB							
1	8.090	8.091	-0.001	94816741	0.5000	0.5381	
2	8.222	8.222	0.000	447502886	0.5000	0.5098	
						RPD = 5.40	
17 Dinoseb							
1	8.145	8.144	0.001	621322249	0.5000	0.5615	
2	8.175	8.173	0.002	2012769159	0.5000	0.6135	
						RPD = 8.87	
18 Bentazon							
1	8.218	8.218	0.000	135146452	0.5000	0.5252	
2	8.579	8.578	0.001	402556641	0.5000	0.5407	
						RPD = 2.92	
19 Picloram							
1	8.435	8.433	0.002	1646590154	0.5000	0.6169	
2	8.916	8.913	0.003	5400334032	0.5000	0.6518	
						RPD = 5.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.539	8.537	0.002	1668353746	0.5000	0.5881	
2	8.696	8.692	0.004	5077033272	0.5000	0.5701	
						RPD = 3.12	
21 Acifluorfen							
1	9.578	9.577	0.001	1241223393	0.5000	0.6100	
2	9.716	9.710	0.006	4100306829	0.5000	0.5129	
						RPD = 17.30	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

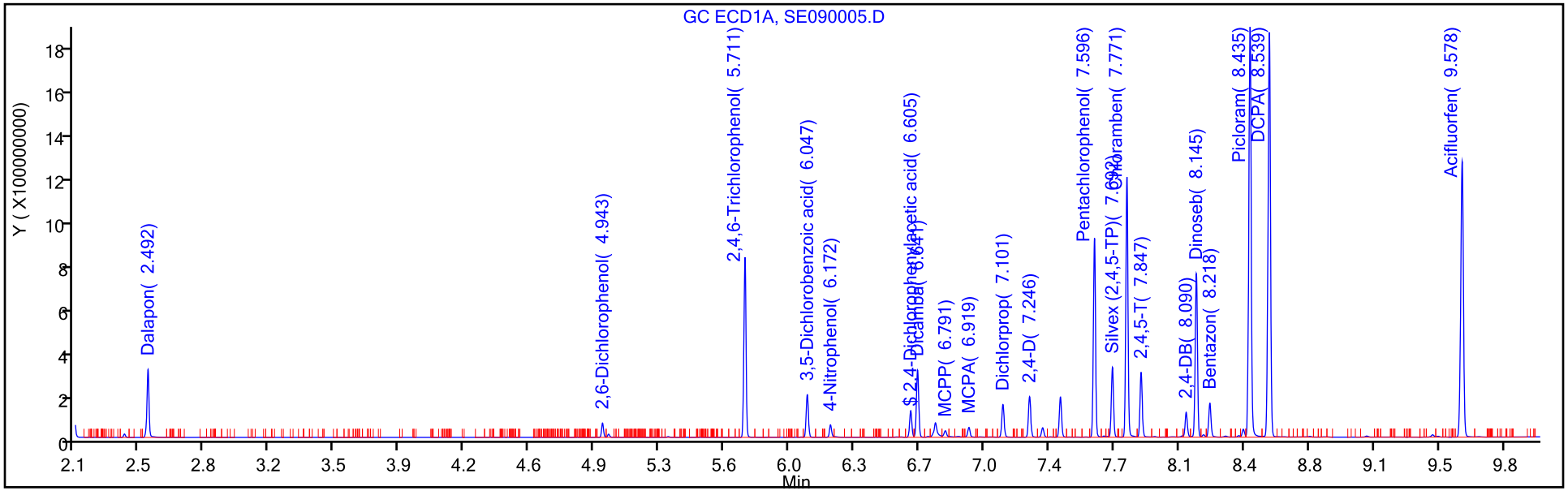
Report Date: 10-May-2018 10:32:23 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

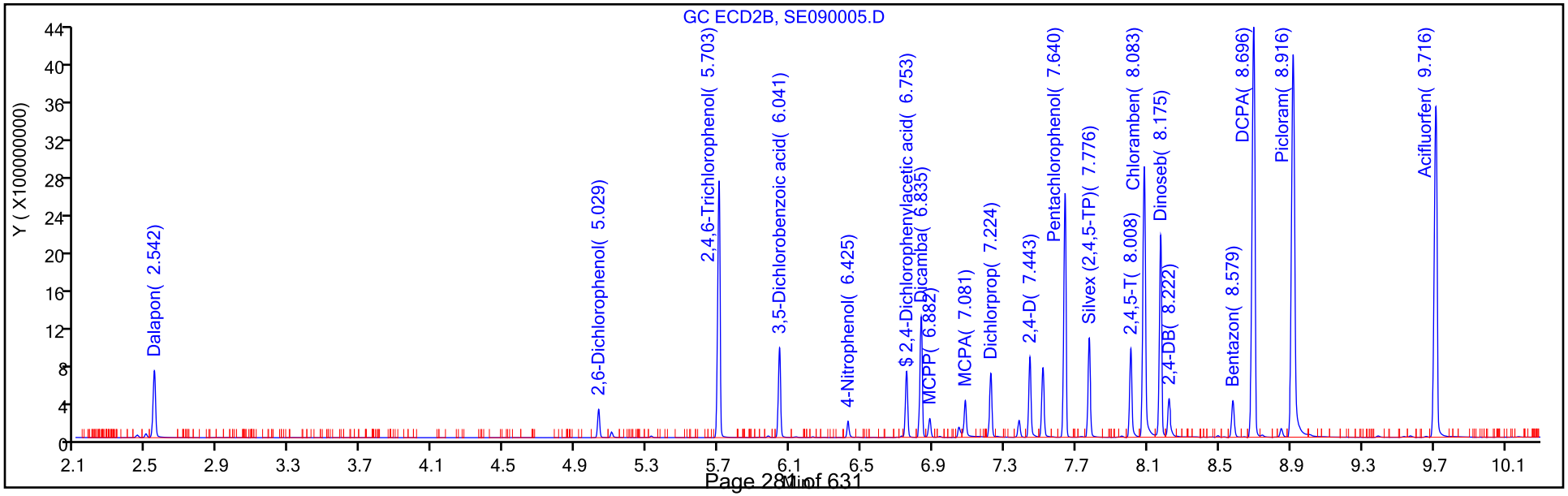
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090005.D

Injection Date:	09-May-2018 18:19:23	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-May-2018 18:39:00 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:31 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	117859465	0.2500	0.2433	
2	2.542	2.540	0.002	343706065	0.2500	0.2439	
						RPD = 0.25	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	23392908	NC	NC	
2	5.029	5.028	0.001	121382918	NC	NC	
						RPD = 0.73	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	300214321	NC	NC	
2	5.702	5.700	0.002	1233407049	NC	NC	
						RPD = 0.43	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	76558268	0.2500	0.2476	
2	6.041	6.040	0.001	402937011	0.2500	0.2491	
						RPD = 0.61	
5 4-Nitrophenol							
1	6.172	6.173	-0.001	24787202	0.2500	0.2490	
2	6.425	6.426	-0.001	70418420	0.2500	0.2264	
						RPD = 9.51	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	48018827	0.2500	0.2432	
2	6.752	6.752	0.000	306481984	0.2500	0.2463	
						RPD = 1.27	
7 Dicamba							
1	6.642	6.642	0.000	125123739	0.1250	0.1270	
2	6.834	6.833	0.001	564195778	0.1250	0.1272	
						RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.790	6.789	0.001	15798581	25.0	24.4	
2	6.881	6.880	0.001	95134406	25.0	24.7	
						RPD = 1.51	
9 MCPA							
1	6.917	6.916	0.001	20303334	25.0	23.8	
2	7.080	7.078	0.002	189250340	25.0	24.5	
						RPD = 2.63	
10 Dichlorprop							
1	7.101	7.102	-0.001	62746255	0.2500	0.2450	
2	7.224	7.223	0.001	290450649	0.2500	0.2373	
						RPD = 3.19	
11 2,4-D							
1	7.245	7.246	-0.001	77679142	0.2500	0.2461	
2	7.444	7.443	0.001	361394001	0.2500	0.2476	
						RPD = 0.58	
12 Pentachlorophenol							
1	7.595	7.594	0.001	331633513	0.0625	0.0654	
2	7.639	7.637	0.002	1120470146	0.0625	0.0664	
						RPD = 1.51	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	122984337	0.0625	0.0657	
2	7.775	7.774	0.001	436902458	0.0625	0.0651	
						RPD = 0.92	
14 Chloramben							
1	7.770	7.770	0.000	428728783	0.2500	0.2616	
2	8.083	8.081	0.002	1447513965	0.2500	0.2674	
						RPD = 2.16	
15 2,4,5-T							
1	7.848	7.848	0.000	118284366	0.0625	0.0634	
2	8.008	8.008	0.000	402466907	0.0625	0.0646	
						RPD = 1.79	
16 2,4-DB							
1	8.091	8.091	0.000	44656333	0.2500	0.2534	
2	8.223	8.222	0.001	212450773	0.2500	0.2420	
						RPD = 4.60	
17 Dinoseb							
1	8.144	8.144	0.000	291379006	0.2500	0.2633	
2	8.175	8.173	0.002	901988457	0.2500	0.2750	
						RPD = 4.33	
18 Bentazon							
1	8.218	8.218	0.000	64493999	0.2500	0.2506	
2	8.580	8.578	0.002	186627828	0.2500	0.2507	
						RPD = 0.02	
19 Picloram							
1	8.434	8.433	0.001	724514848	0.2500	0.2714	
2	8.916	8.913	0.003	2365516502	0.2500	0.2855	
						RPD = 5.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.539	8.537	0.002	762299063	0.2500	0.2687	
2	8.695	8.692	0.003	2416371573	0.2500	0.2713	
						RPD = 0.96	
21 Acifluorfen							
1	9.579	9.577	0.002	560772453	0.2500	0.2756	
2	9.714	9.710	0.004	1719149943	0.2500	0.2314	
						RPD = 17.41	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

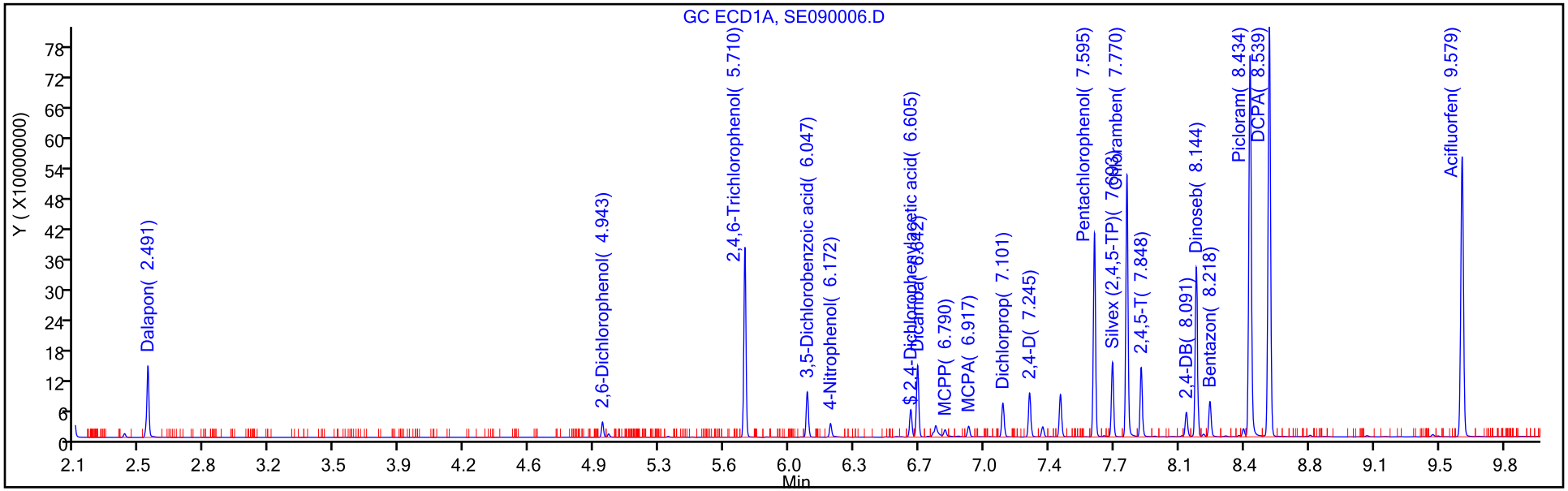
Report Date: 10-May-2018 10:32:35 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

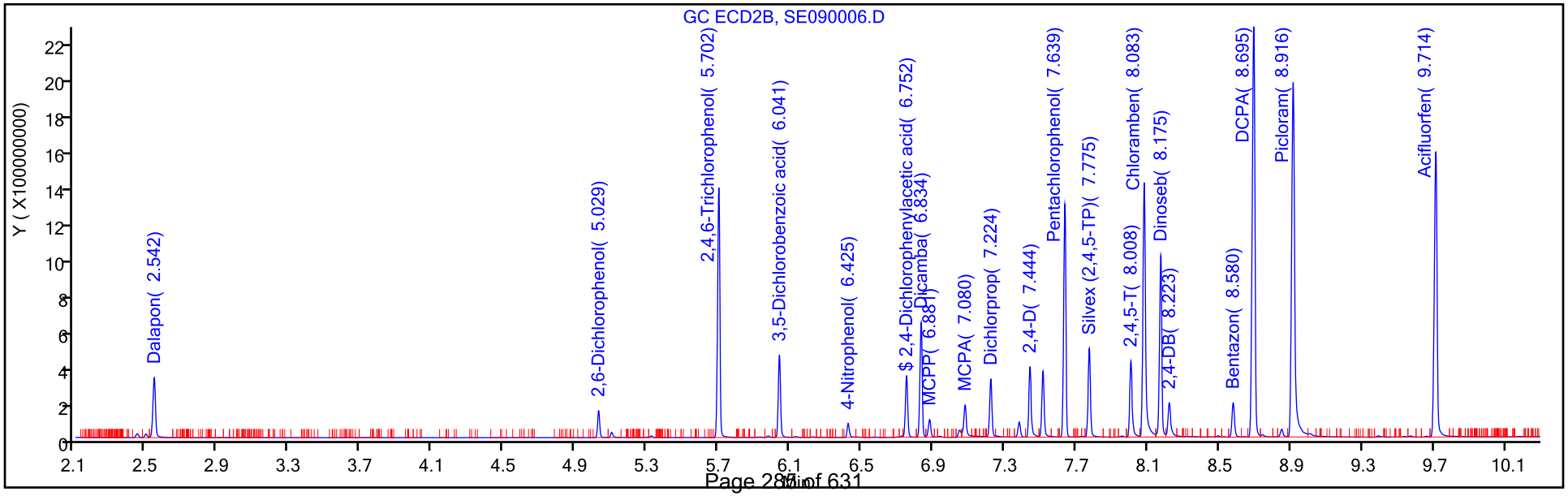
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090006.D

Injection Date:	09-May-2018 18:39:00	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-May-2018 18:58:34 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:41 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	85561651	0.1750	0.1754	
2	2.541	2.540	0.001	245675180	0.1750	0.1743	
						RPD = 0.60	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	16820806	NC	NC	
2	5.028	5.028	0.000	87350522	NC	NC	
						RPD = 0.81	
3 2,4,6-Trichlorophenol							
1	5.711	5.710	0.001	210985965	NC	NC	
2	5.702	5.700	0.002	868535448	NC	NC	
						RPD = 0.63	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	55316182	0.1750	0.1789	
2	6.040	6.040	0.000	285956578	0.1750	0.1768	
						RPD = 1.18	
5 4-Nitrophenol							
1	6.173	6.173	0.000	18148801	0.1750	0.1823	
2	6.426	6.426	0.000	50791322	0.1750	0.1633	
						RPD = 11.01	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	34610542	0.1750	0.1753	
2	6.753	6.752	0.001	217901405	0.1750	0.1751	
						RPD = 0.10	
7 Dicamba							
1	6.642	6.642	0.000	88963078	0.0875	0.0903	
2	6.833	6.833	0.000	399308905	0.0875	0.0900	
						RPD = 0.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.790	6.789	0.001	11735070	17.5	18.1	
2	6.881	6.880	0.001	70347241	17.5	18.0	
						RPD = 0.39	
9 MCPA							
1	6.917	6.916	0.001	15184702	17.5	17.8	
2	7.080	7.078	0.002	143685808	17.5	18.3	
						RPD = 2.96	
10 Dichlorprop							
1	7.103	7.102	0.001	45229626	0.1750	0.1766	
2	7.223	7.223	0.000	206211940	0.1750	0.1685	
						RPD = 4.70	
11 2,4-D							
1	7.246	7.246	0.000	55858354	0.1750	0.1770	
2	7.443	7.443	0.000	256797724	0.1750	0.1759	
						RPD = 0.61	
12 Pentachlorophenol							
1	7.595	7.594	0.001	232407815	0.0438	0.0459	
2	7.638	7.637	0.001	787462544	0.0438	0.0467	
						RPD = 1.80	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	86592112	0.0438	0.0463	
2	7.775	7.774	0.001	309540353	0.0438	0.0461	
						RPD = 0.30	
14 Chloramben							
1	7.770	7.770	0.000	300714561	0.1750	0.1835	
2	8.082	8.081	0.001	1017374760	0.1750	0.1879	
						RPD = 2.36	
15 2,4,5-T							
1	7.848	7.848	0.000	84308974	0.0438	0.0452	
2	8.008	8.008	0.000	281806659	0.0438	0.0452	
						RPD = 0.01	
16 2,4-DB							
1	8.091	8.091	0.000	31842206	0.1750	0.1807	
2	8.223	8.222	0.001	160878564	0.1750	0.1833	
						RPD = 1.41	
17 Dinoseb							
1	8.145	8.144	0.001	205511059	0.1750	0.1857	
2	8.175	8.173	0.002	624797611	0.1750	0.1905	
						RPD = 2.52	
18 Bentazon							
1	8.218	8.218	0.000	46220417	0.1750	0.1796	
2	8.580	8.578	0.002	132529059	0.1750	0.1780	
						RPD = 0.89	
19 Picloram							
1	8.434	8.433	0.001	504113503	0.1750	0.1889	
2	8.915	8.913	0.002	1614105282	0.1750	0.1948	
						RPD = 3.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	532179764	0.1750	0.1876	
2	8.694	8.692	0.002	1692976152	0.1750	0.1901	
						RPD = 1.32	
21 Acifluorfen							
1	9.578	9.577	0.001	389652410	0.1750	0.1915	
2	9.713	9.710	0.003	1145964479	0.1750	0.1637	
						RPD = 15.65	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

Report Date: 10-May-2018 10:32:45 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090007.D

Injection Date: 09-May-2018 18:58:34 Instrument ID: CSGS Operator ID: GEM

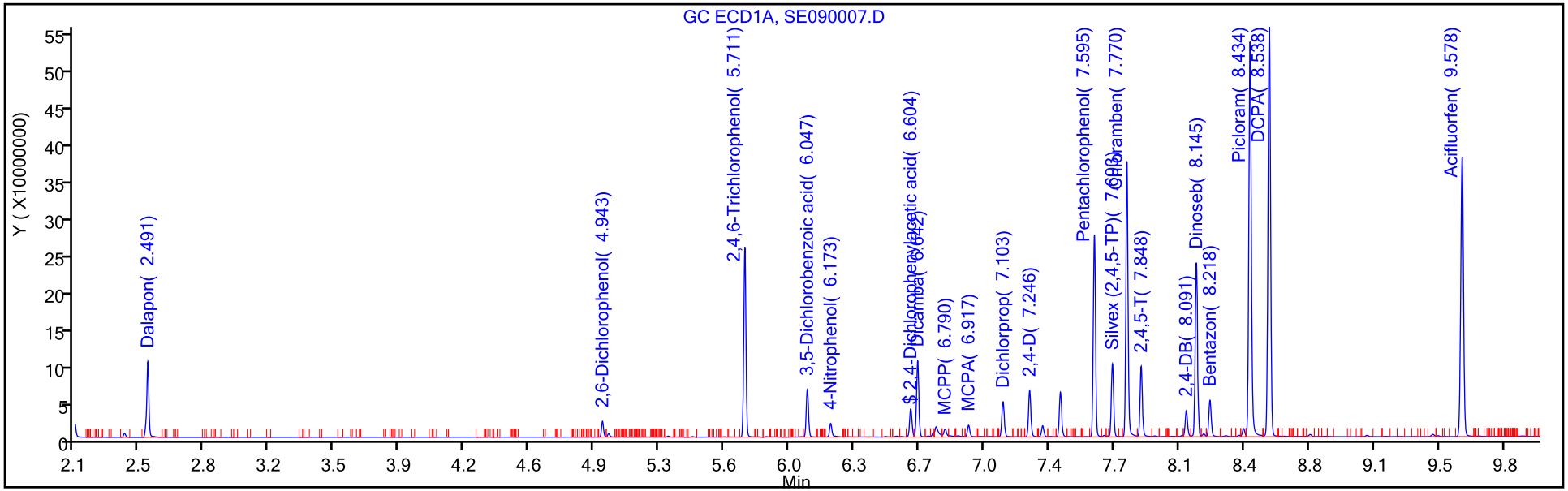
Lims ID: ic h5 Worklist Smp#: 7

Client ID:

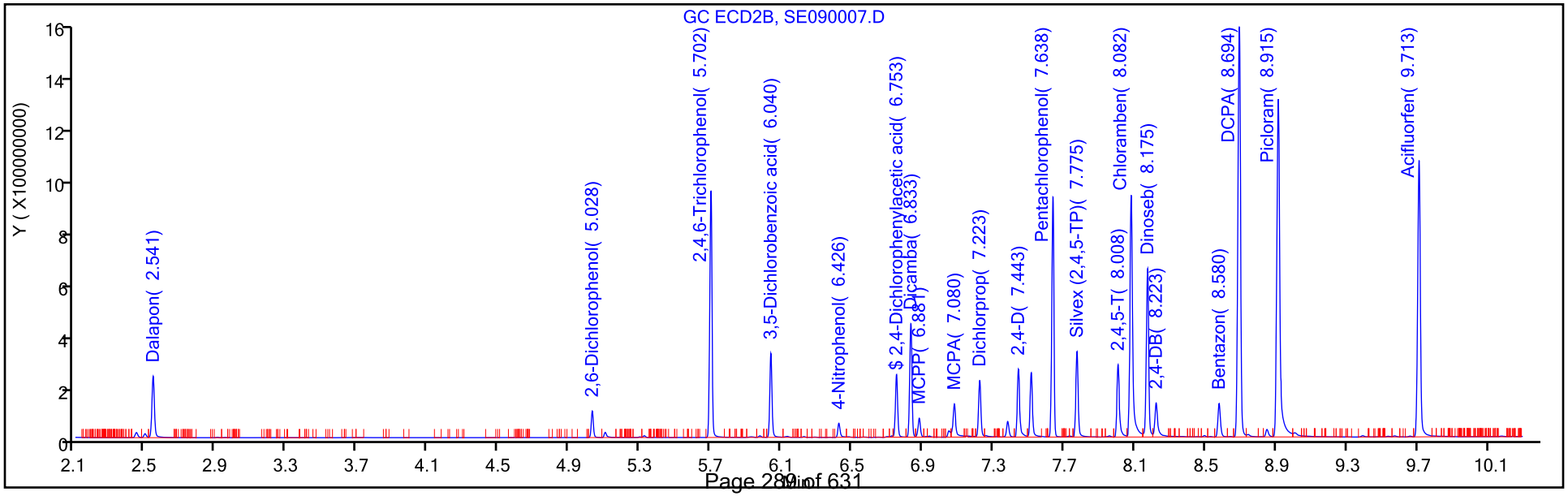
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-May-2018 19:18:17 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:32:52 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	48692714	0.1000	0.0979	
2	2.540	2.540	0.000	134282444	0.1000	0.0953	
						RPD = 2.67	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	9632391	NC	NC	
2	5.028	5.028	0.000	49153025	NC	NC	
						RPD = 0.94	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	113343196	NC	NC	
2	5.700	5.700	0.000	470539202	NC	NC	
						RPD = 1.47	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	30671888	0.1000	0.0992	
2	6.040	6.040	0.000	157142720	0.1000	0.0972	
						RPD = 2.08	
5 4-Nitrophenol							
1	6.173	6.173	0.000	10063608	0.1000	0.1011	
2	6.426	6.426	0.000	28701977	0.1000	0.0923	
						RPD = 9.12	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	19396979	0.1000	0.0982	
2	6.752	6.752	0.000	121598006	0.1000	0.0977	
						RPD = 0.53	
7 Dicamba							
1	6.642	6.642	0.000	48666881	0.0500	0.0494	
2	6.833	6.833	0.000	218858895	0.0500	0.0494	
						RPD = 0.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	6799750	10.0	10.5	
2	6.880	6.880	0.000	42804626	10.0	10.6	
						RPD = 0.84	
9 MCPA							
1	6.916	6.916	0.000	8784914	10.0	10.2	
2	7.078	7.078	0.000	87635867	10.0	10.8	
						RPD = 5.05	
10 Dichlorprop							
1	7.102	7.102	0.000	25183834	0.1000	0.0983	
2	7.223	7.223	0.000	116304622	0.1000	0.0950	
						RPD = 3.42	
11 2,4-D							
1	7.246	7.246	0.000	31351468	0.1000	0.0993	
2	7.443	7.443	0.000	141286640	0.1000	0.0968	
						RPD = 2.60	
12 Pentachlorophenol							
1	7.594	7.594	0.000	124451497	0.0250	0.0246	
2	7.637	7.637	0.000	426702551	0.0250	0.0253	
						RPD = 2.98	
13 Silvex (2,4,5-TP)							
1	7.692	7.692	0.000	46478268	0.0250	0.0248	
2	7.774	7.774	0.000	165575880	0.0250	0.0247	
						RPD = 0.64	
14 Chloramben							
1	7.770	7.770	0.000	159803441	0.1000	0.0975	
2	8.081	8.081	0.000	534232051	0.1000	0.0987	
						RPD = 1.17	
15 2,4,5-T							
1	7.848	7.848	0.000	45407307	0.0250	0.0244	
2	8.008	8.008	0.000	150219829	0.0250	0.0241	
						RPD = 1.02	
16 2,4-DB							
1	8.091	8.091	0.000	17140092	0.1000	0.0973	
2	8.222	8.222	0.000	89229518	0.1000	0.1017	
						RPD = 4.40	
17 Dinoseb							
1	8.144	8.144	0.000	108913733	0.1000	0.0984	
2	8.173	8.173	0.000	319720996	0.1000	0.0975	
						RPD = 0.98	
18 Bentazon							
1	8.218	8.218	0.000	25386610	0.1000	0.0986	
2	8.578	8.578	0.000	72241071	0.1000	0.0970	
						RPD = 1.65	
19 Picloram							
1	8.433	8.433	0.000	265884971	0.1000	0.0996	
2	8.913	8.913	0.000	817209657	0.1000	0.0986	
						RPD = 1.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.537	8.537	0.000	286279694	0.1000	0.1009	
2	8.692	8.692	0.000	903362678	0.1000	0.1014	
						RPD = 0.51	
21 Acifluorfen							
1	9.577	9.577	0.000	204134092	0.1000	0.1003	
2	9.710	9.710	0.000	561519505	0.1000	0.0946	
						RPD = 5.86	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

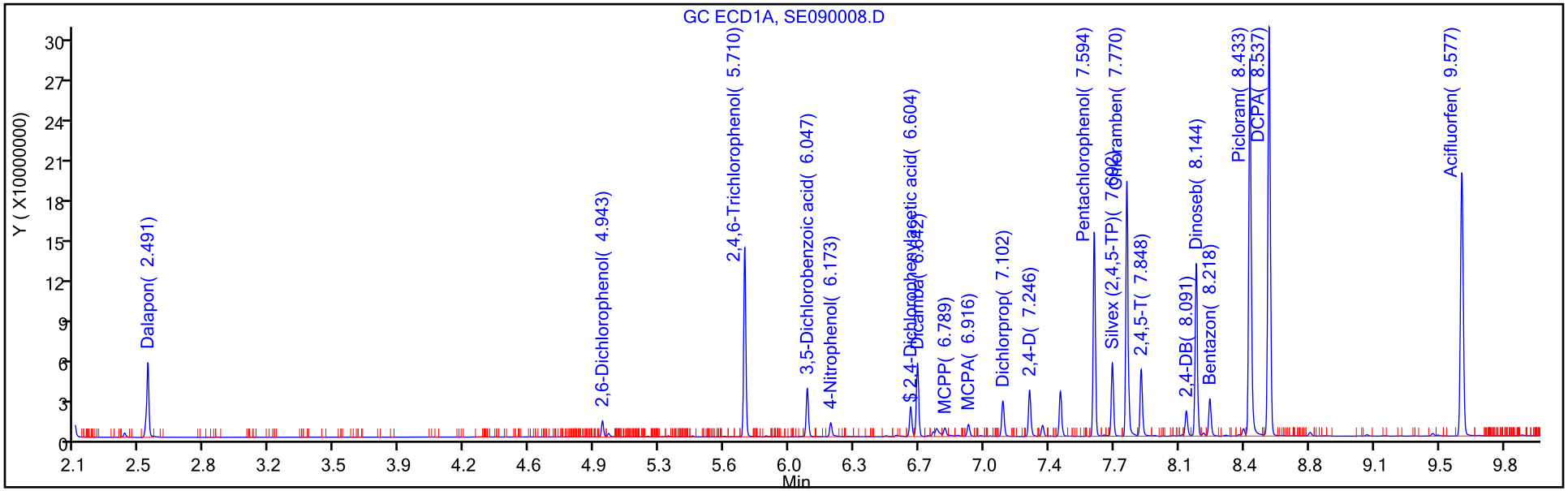
Report Date: 10-May-2018 10:32:56 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

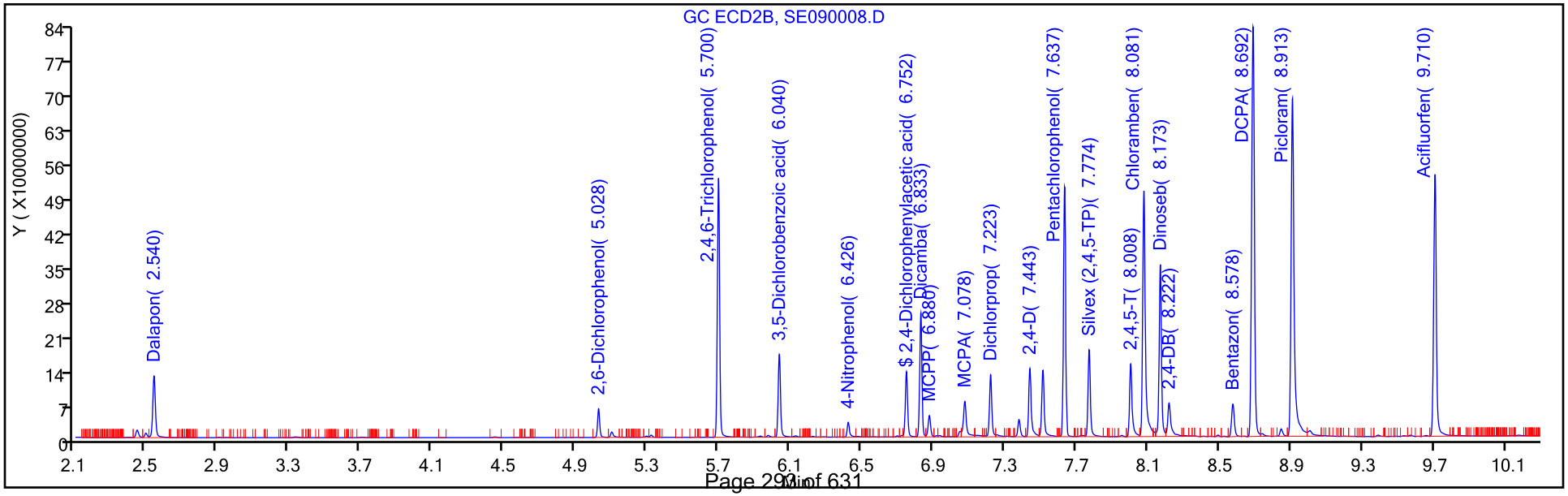
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090008.D

Injection Date:	09-May-2018 19:18:17	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-May-2018 19:37:54 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:33:11 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	26486244	0.0500	0.0512	
2	2.541	2.540	0.001	68276472	0.0500	0.0484	
						RPD = 5.48	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	5042831	NC	NC	
2	5.028	5.028	0.000	25694947	NC	NC	
						RPD = 1.09	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	53550343	NC	NC	
2	5.700	5.700	0.000	226578608	NC	NC	
						RPD = 3.37	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	15124840	0.0500	0.0489	
2	6.041	6.040	0.001	78811020	0.0500	0.0487	
						RPD = 0.39	
5 4-Nitrophenol							
1	6.174	6.173	0.001	5013484	0.0500	0.0504	
2	6.428	6.426	0.002	15379120	0.0500	0.0494	
						RPD = 1.84	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	9824392	0.0500	0.0498	
2	6.753	6.752	0.001	61074468	0.0500	0.0491	
						RPD = 1.36	
7 Dicamba							
1	6.641	6.642	-0.001	23742571	0.0250	0.0241	
2	6.833	6.833	0.000	106662608	0.0250	0.0241	
						RPD = 0.17	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.788	6.789	-0.001	3508507	5.00	5.41	
2	6.881	6.880	0.001	24151794	5.00	5.53	
						RPD = 2.14	
9 MCPA							
1	6.916	6.916	0.000	4645587	5.00	5.36	
2	7.078	7.078	0.000	48125167	5.00	5.44	
						RPD = 1.65	
10 Dichlorprop							
1	7.102	7.102	0.000	12671217	0.0500	0.0495	
2	7.223	7.223	0.000	58567059	0.0500	0.0478	
						RPD = 3.33	
11 2,4-D							
1	7.247	7.246	0.001	15677896	0.0500	0.0497	
2	7.443	7.443	0.000	69419021	0.0500	0.0476	
						RPD = 4.36	
12 Pentachlorophenol							
1	7.595	7.594	0.001	58438516	0.0125	0.0115	
2	7.637	7.637	0.000	203051099	0.0125	0.0120	
						RPD = 4.31	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	21972097	0.0125	0.0117	
2	7.774	7.774	0.000	78461272	0.0125	0.0117	
						RPD = 0.40	
14 Chloramben							
1	7.771	7.770	0.001	74407541	0.0500	0.0454	
2	8.082	8.081	0.001	253737337	0.0500	0.0469	
						RPD = 3.16	
15 2,4,5-T							
1	7.848	7.848	0.000	22227236	0.0125	0.0119	
2	8.008	8.008	0.000	71548434	0.0125	0.0115	
						RPD = 3.76	
16 2,4-DB							
1	8.092	8.091	0.001	8499475	0.0500	0.0482	
2	8.223	8.222	0.001	45093077	0.0500	0.0514	
						RPD = 6.30	
17 Dinoseb							
1	8.145	8.144	0.001	50192922	0.0500	0.0454	
2	8.173	8.173	0.000	141523650	0.0500	0.0431	
						RPD = 5.01	
18 Bentazon							
1	8.218	8.218	0.000	12591827	0.0500	0.0489	
2	8.580	8.578	0.002	35628390	0.0500	0.0479	
						RPD = 2.22	
19 Picloram							
1	8.435	8.433	0.002	124854571	0.0500	0.0468	
2	8.913	8.913	0.000	374069812	0.0500	0.0451	
						RPD = 3.55	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	135870891	0.0500	0.0479	
2	8.693	8.692	0.001	429416896	0.0500	0.0482	
						RPD = 0.67	
21 Acifluorfen							
1	9.578	9.577	0.001	92428968	0.0500	0.0454	
2	9.712	9.710	0.002	237117322	0.0500	0.0563	
						RPD = 21.33	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

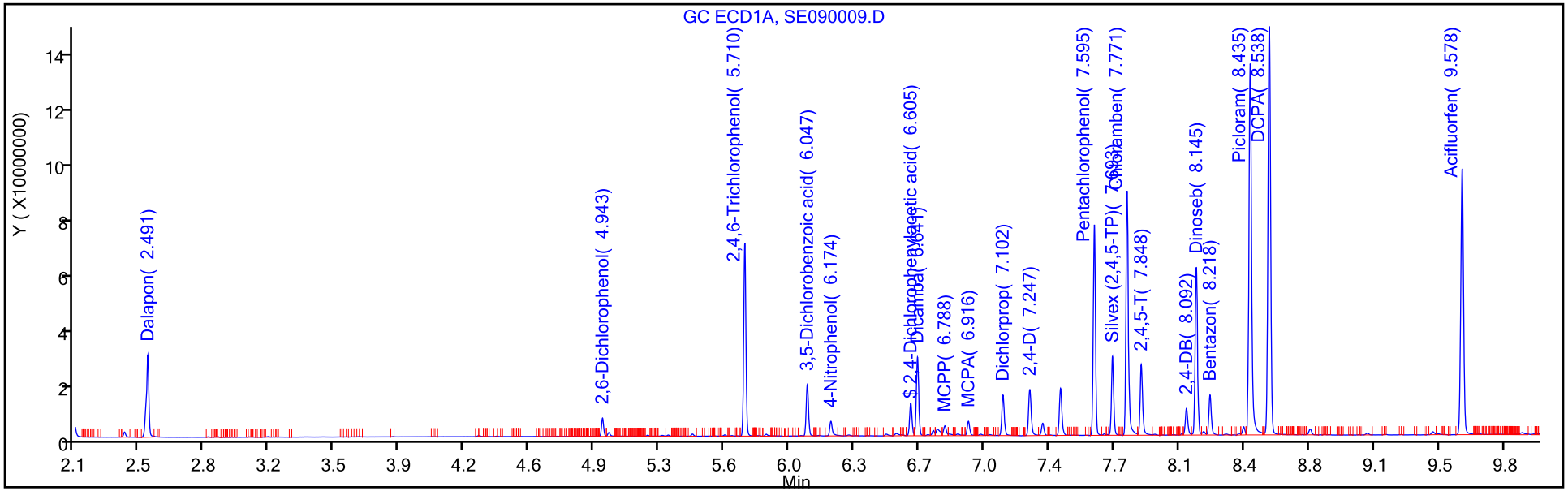
Report Date: 10-May-2018 10:33:16 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

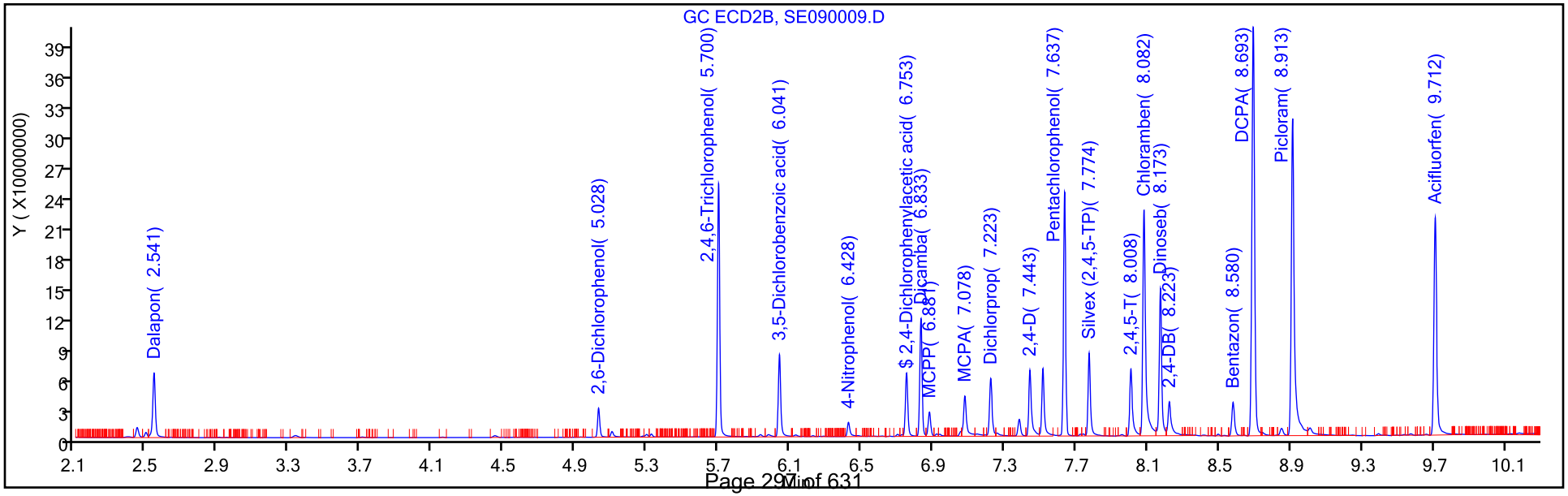
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090009.D

Injection Date:	09-May-2018 19:37:54	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-May-2018 19:57:37 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:33:30 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.490	2.491	-0.001	14657660	0.0250	0.0263	
2	2.540	2.540	0.000	34680649	0.0250	0.0246	
						RPD = 6.70	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	2643396	NC	NC	
2	5.029	5.028	0.001	13247063	NC	NC	
						RPD = 2.75	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	25414505	NC	NC	
2	5.700	5.700	0.000	107319552	NC	NC	
						RPD = 3.17	
4 3,5-Dichlorobenzoic acid							
1	6.047	6.047	0.000	7620330	0.0250	0.0246	
2	6.041	6.040	0.001	38364540	0.0250	0.0237	
						RPD = 3.83	
5 4-Nitrophenol							
1	6.175	6.173	0.002	2605390	0.0250	0.0262	
2	6.427	6.426	0.001	8778298	0.0250	0.0282	
						RPD = 7.54	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	4981736	0.0250	0.0252	
2	6.752	6.752	0.000	30704507	0.0250	0.0247	
						RPD = 2.22	
7 Dicamba							
1	6.642	6.642	0.000	11616649	0.0125	0.0118	
2	6.832	6.833	-0.001	51691784	0.0125	0.0117	
						RPD = 1.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	1745483	2.50	2.69	
2	6.880	6.880	0.000	13914604	2.50	2.76	
						RPD = 2.42	
9 MCPA							
1	6.917	6.916	0.001	2425365	2.50	2.73	
2	7.078	7.078	0.000	28551579	2.50	2.80	
						RPD = 2.54	
10 Dichlorprop							
1	7.103	7.102	0.001	6423668	0.0250	0.0251	
2	7.223	7.223	0.000	31462180	0.0250	0.0257	
						RPD = 2.46	
11 2,4-D							
1	7.247	7.246	0.001	7737754	0.0250	0.0245	
2	7.442	7.443	-0.001	34715108	0.0250	0.0238	
						RPD = 3.05	
12 Pentachlorophenol							
1	7.595	7.594	0.001	27542680	0.006250	0.005435	
2	7.637	7.637	0.000	94352178	0.006250	0.005595	
						RPD = 2.89	
13 Silvex (2,4,5-TP)							
1	7.692	7.692	0.000	10459084	0.006250	0.005589	
2	7.774	7.774	0.000	37061107	0.006250	0.005524	
						RPD = 1.18	
14 Chloramben							
1	7.772	7.770	0.002	35018105	0.0250	0.0214	
2	8.082	8.081	0.001	120073751	0.0250	0.0222	
						RPD = 3.71	
15 2,4,5-T							
1	7.849	7.848	0.001	10974501	0.006250	0.005886	
2	8.007	8.008	-0.001	33976230	0.006250	0.005452	
						RPD = 7.65	
16 2,4-DB							
1	8.092	8.091	0.001	4239618	0.0250	0.0241	
2	8.223	8.222	0.001	22663618	0.0250	0.0258	
						RPD = 7.05	
17 Dinoseb							
1	8.145	8.144	0.001	24507489	0.0250	0.0221	
2	8.173	8.173	0.000	66394703	0.0250	0.0202	
						RPD = 9.00	
18 Bentazon							
1	8.219	8.218	0.001	6315524	0.0250	0.0245	
2	8.580	8.578	0.002	17606131	0.0250	0.0236	
						RPD = 3.71	
19 Picloram							
1	8.436	8.433	0.003	59686028	0.0250	0.0224	
2	8.913	8.913	0.000	171088600	0.0250	0.0206	
						RPD = 7.97	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	64463537	0.0250	0.0227	
2	8.692	8.692	0.000	202718580	0.0250	0.0228	
						RPD = 0.17	
21 Acifluorfen							
1	9.578	9.577	0.001	45279726	0.0250	0.0223	
2	9.711	9.710	0.001	108783467	0.0250	0.0411	
						RPD = 59.50	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

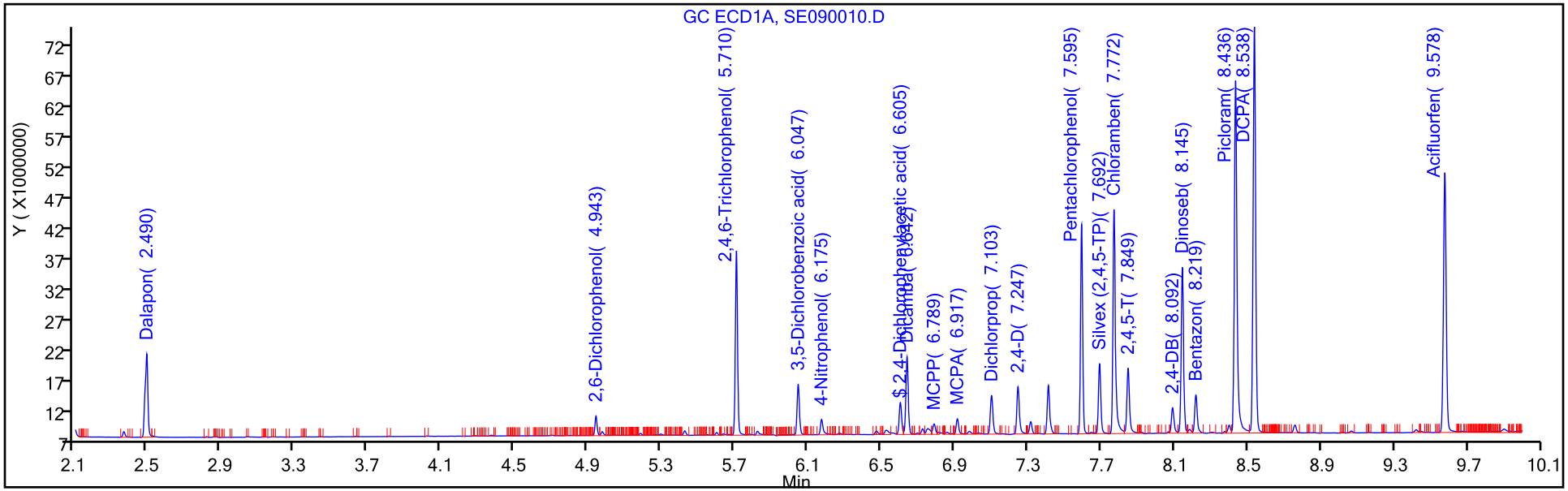
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TestAmerica Savannah

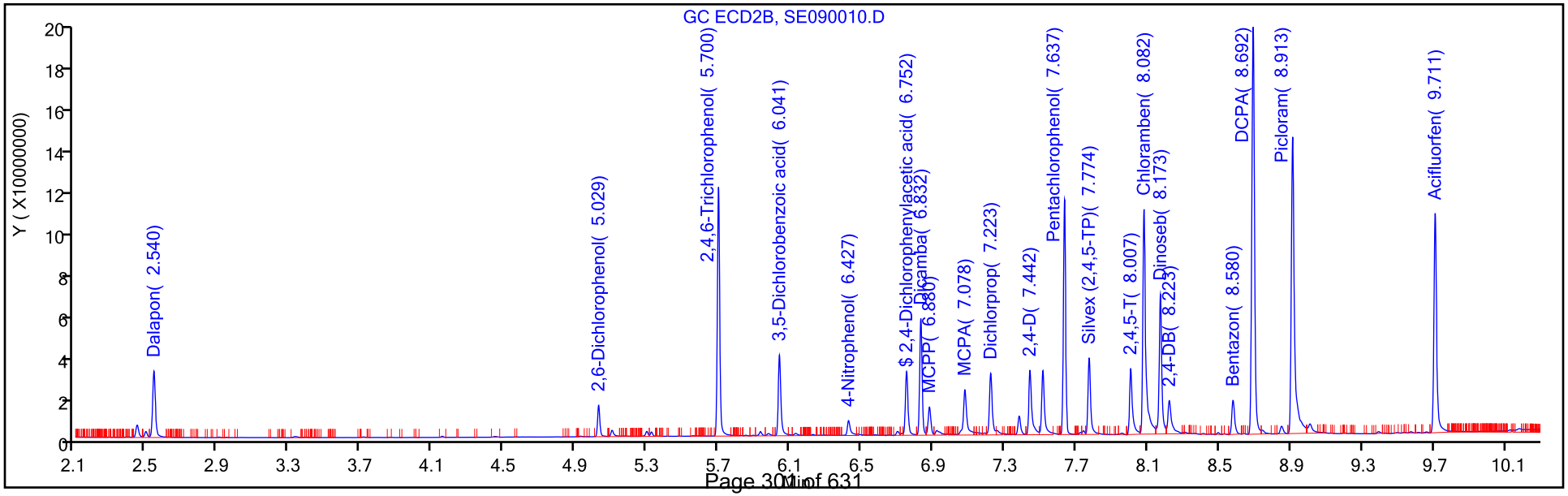
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Injection Date:	09-May-2018 19:57:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-May-2018 20:17:14 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:33:50 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:26:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.489	2.491	-0.002	6790041	0.0100	0.009774	
2	2.539	2.540	-0.001	14490384	0.0100	0.0103	
						RPD = 5.07	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	1126471	NC	NC	
2	5.029	5.028	0.001	5671182	NC	NC	
						RPD = 2.29	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	9125808	NC	NC	
2	5.699	5.700	-0.001	39546213	NC	NC	
						RPD = 5.76	
4 3,5-Dichlorobenzoic acid							
1	6.048	6.047	0.001	2944716	0.0100	0.009523	
2	6.042	6.040	0.002	15640455	0.0100	0.009670	
						RPD = 1.52	
5 4-Nitrophenol							
1	6.177	6.173	0.004	1040738	0.0100	0.0105	
2	6.429	6.426	0.003	3984898	0.0100	0.0128	
						RPD = 20.26	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	2000718	0.0100	0.0101	
2	6.754	6.752	0.002	12141554	0.0100	0.009758	
						RPD = 3.77	
7 Dicamba							
1	6.641	6.642	-0.001	4372331	0.005000	0.004437	
2	6.834	6.833	0.001	19774183	0.005000	0.004459	
						RPD = 0.50	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.790	6.789	0.001	517455	1.00	0.7977	
2	6.882	6.880	0.002	6429640	1.00	0.7323	
						RPD = 8.55	
9 MCPA							
1	6.917	6.916	0.001	913431	1.00	0.9482	
2	7.081	7.078	0.003	12826943	1.00	0.6828	
						RPD = 32.55	
10 Dichlorprop							
1	7.104	7.102	0.002	2539480	0.0100	0.0099	
2	7.224	7.223	0.001	13374924	0.0100	0.0109	
						RPD = 9.72	
11 2,4-D							
1	7.248	7.246	0.002	3047545	0.0100	0.009656	
2	7.445	7.443	0.002	13933080	0.0100	0.009544	
						RPD = 1.16	
12 Pentachlorophenol							
1	7.595	7.594	0.001	9895451	0.002500	0.001953	
2	7.638	7.637	0.001	33742162	0.002500	0.002001	
						RPD = 2.43	
13 Silvex (2,4,5-TP)							
1	7.694	7.692	0.002	3859632	0.002500	0.002063	
2	7.776	7.774	0.002	13743986	0.002500	0.002049	
						RPD = 0.68	
14 Chloramben							
1	7.772	7.770	0.002	12786212	0.0100	0.007803	
2	8.083	8.081	0.002	43902837	0.0100	0.008109	
						RPD = 3.84	
15 2,4,5-T							
1	7.849	7.848	0.001	4426368	0.002500	0.002374	
2	8.009	8.008	0.001	13763803	0.002500	0.002209	
						RPD = 7.22	
16 2,4-DB							
1	8.093	8.091	0.002	1551068	0.0100	0.008803	
2	8.225	8.222	0.003	8072867	0.0100	0.009197	
						RPD = 4.38	
17 Dinoseb							
1	8.145	8.144	0.001	8830536	0.0100	0.007980	
2	8.174	8.173	0.001	23228618	0.0100	0.007081	
						RPD = 11.94	
18 Bentazon							
1	8.219	8.218	0.001	2372651	0.0100	0.009220	
2	8.582	8.578	0.004	6834492	0.0100	0.009180	
						RPD = 0.43	
19 Picloram							
1	8.436	8.433	0.003	20683643	0.0100	0.007749	
2	8.914	8.913	0.001	60165899	0.0100	0.007261	
						RPD = 6.50	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.539	8.537	0.002	22721047	0.0100	0.008009	
2	8.694	8.692	0.002	71194571	0.0100	0.007994	
						RPD = 0.19	
21 Acifluorfen							
1	9.579	9.577	0.002	15904730	0.0100	0.007816	
2	9.714	9.710	0.004	36049429	0.0100	0.0325	
						RPD = 122.46	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

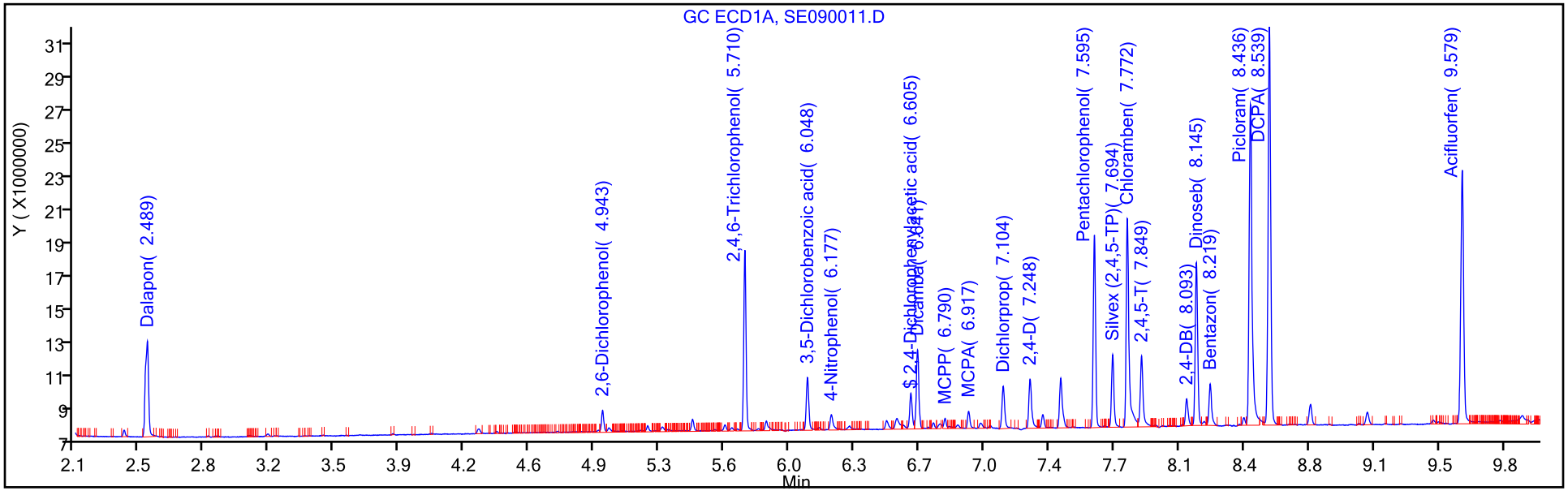
Report Date: 10-May-2018 10:33:56 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

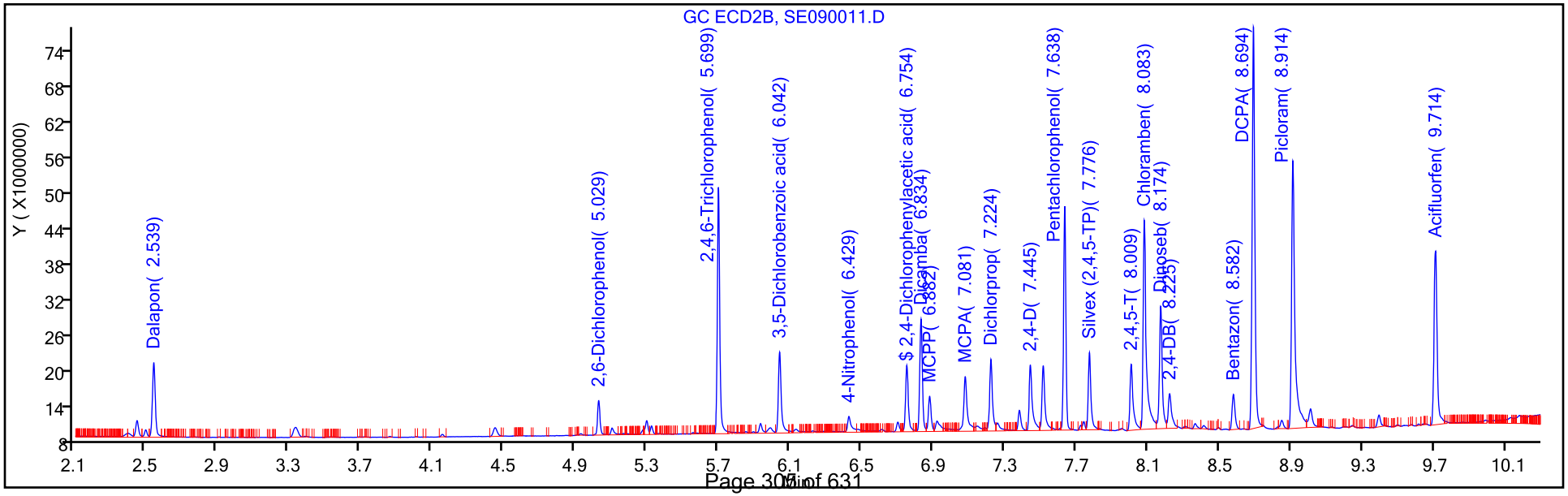
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Injection Date:	09-May-2018 20:17:14	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Calibration / Dalapon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

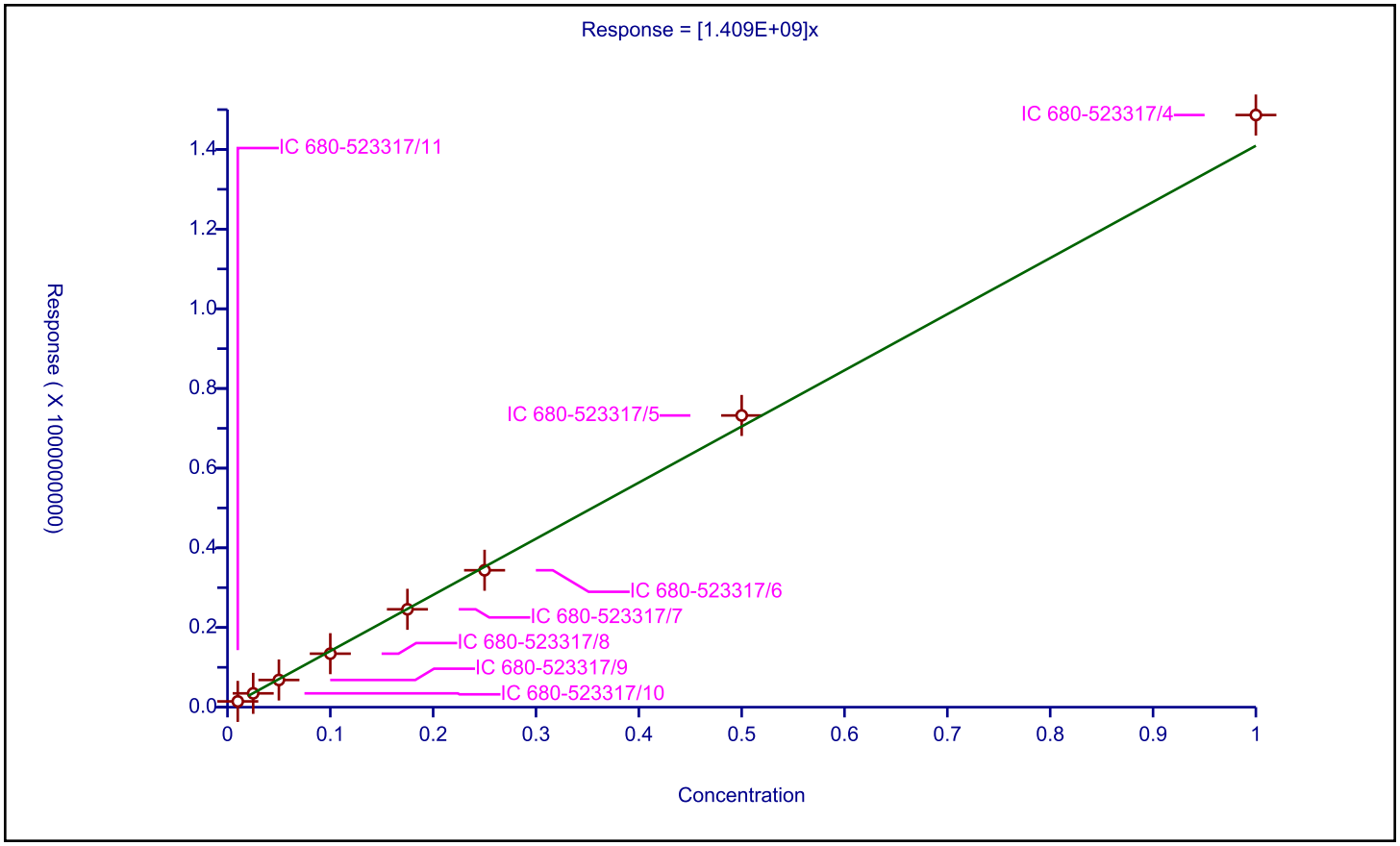
Curve Coefficients

Intercept:	0
Slope:	1.409E+09

Error Coefficients

Standard Error:	31200000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	14490384.0			1449038400.0	Y
2	IC 680-523317/10	0.025	34680649.0			1387225960.0	Y
3	IC 680-523317/9	0.05	68276472.0			1365529440.0	Y
4	IC 680-523317/8	0.1	134282444.0			1342824440.0	Y
5	IC 680-523317/7	0.175	245675180.0			1403858171.42857	Y
6	IC 680-523317/6	0.25	343706065.0			1374824260.0	Y
7	IC 680-523317/5	0.5	732221950.0			1464443900.0	Y
8	IC 680-523317/4	1.0	1486390376.0			1486390376.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

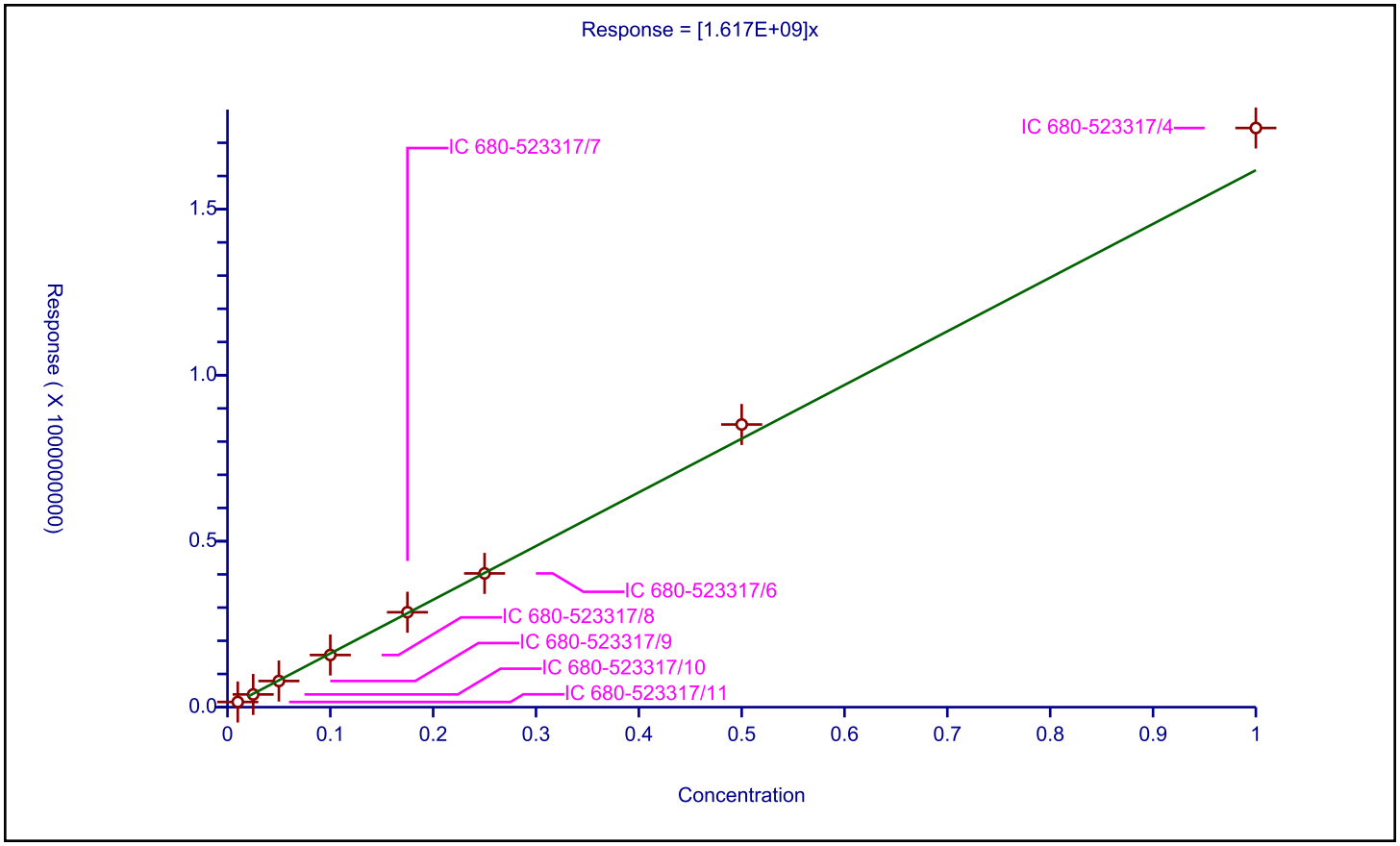
Curve Coefficients

Intercept:	0
Slope:	1.617E+09

Error Coefficients

Standard Error:	50800000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	15640455.0			1564045500.0	Y
2	IC 680-523317/10	0.025	38364540.0			1534581600.0	Y
3	IC 680-523317/9	0.05	78811020.0			1576220400.0	Y
4	IC 680-523317/8	0.1	157142720.0			1571427200.0	Y
5	IC 680-523317/7	0.175	285956578.0			1634037588.57143	Y
6	IC 680-523317/6	0.25	402937011.0			1611748044.0	Y
7	IC 680-523317/5	0.5	851491539.0			1702983078.0	Y
8	IC 680-523317/4	1.0	1744604922.0			1744604922.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

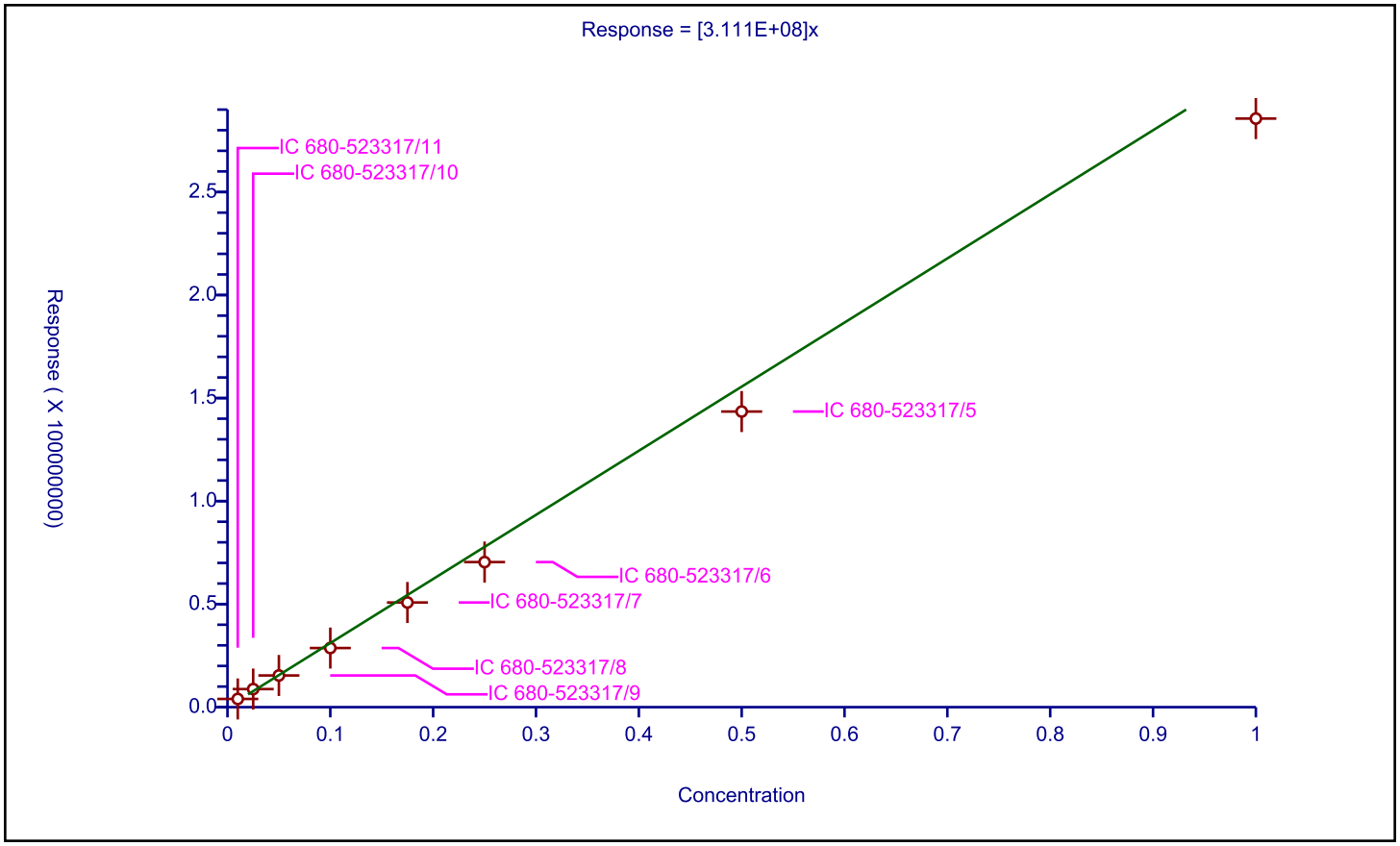
Curve Coefficients

Intercept:	0
Slope:	3.111E+08

Error Coefficients

Standard Error:	11100000
Relative Standard Error:	13.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	3984898.0			398489800.0	Y
2	IC 680-523317/10	0.025	8778298.0			351131920.0	Y
3	IC 680-523317/9	0.05	15379120.0			307582400.0	Y
4	IC 680-523317/8	0.1	28701977.0			287019770.0	Y
5	IC 680-523317/7	0.175	50791322.0			290236125.714286	Y
6	IC 680-523317/6	0.25	70418420.0			281673680.0	Y
7	IC 680-523317/5	0.5	143473602.0			286947204.0	Y
8	IC 680-523317/4	1.0	285656847.0			285656847.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

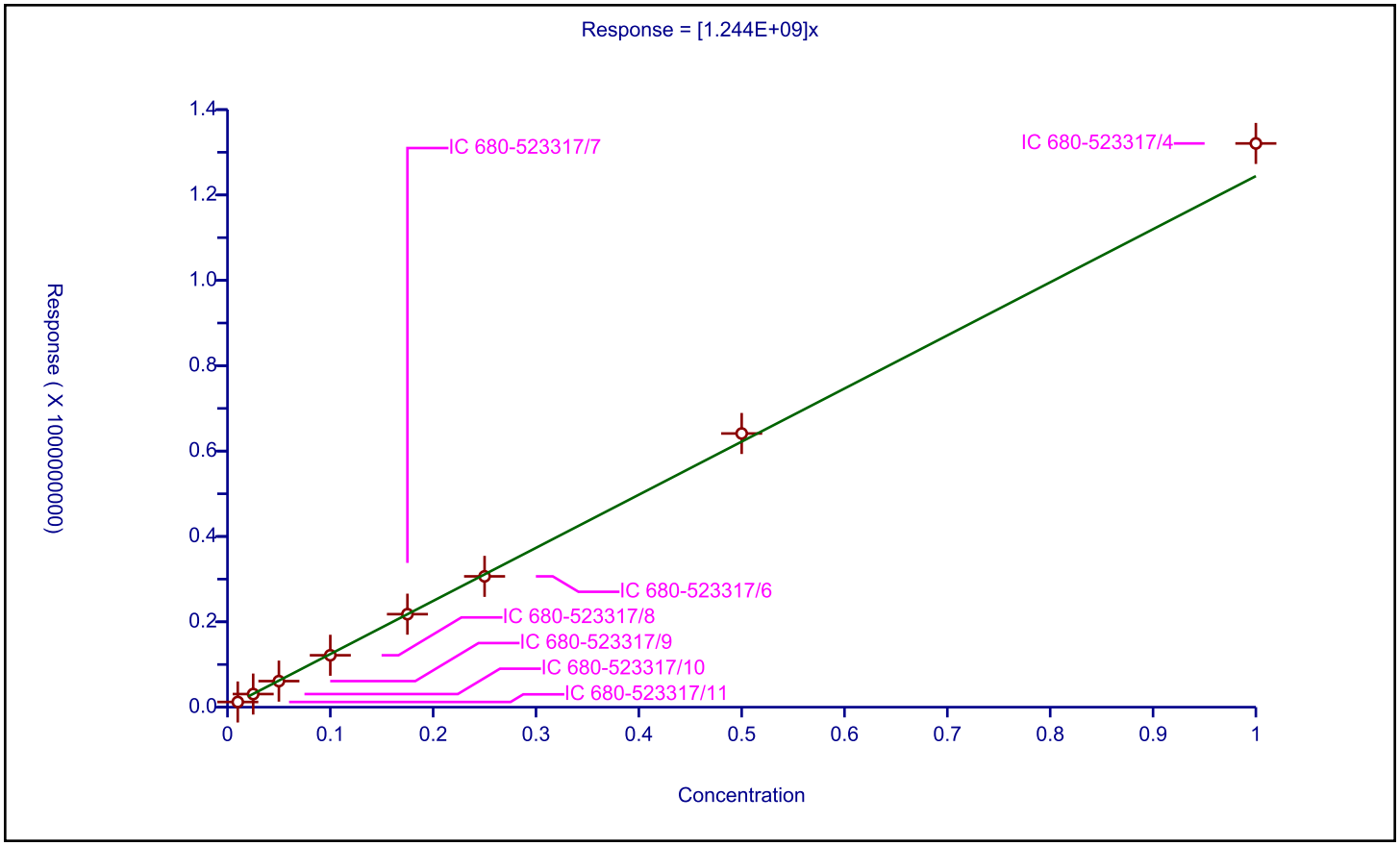
Curve Coefficients

Intercept:	0
Slope:	1.244E+09

Error Coefficients

Standard Error:	29900000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	12141554.0			1214155400.0	Y
2	IC 680-523317/10	0.025	30704507.0			1228180280.0	Y
3	IC 680-523317/9	0.05	61074468.0			1221489360.0	Y
4	IC 680-523317/8	0.1	121598006.0			1215980060.0	Y
5	IC 680-523317/7	0.175	217901405.0			1245150885.71429	Y
6	IC 680-523317/6	0.25	306481984.0			1225927936.0	Y
7	IC 680-523317/5	0.5	641182661.0			1282365322.0	Y
8	IC 680-523317/4	1.0	1320744257.0			1320744257.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

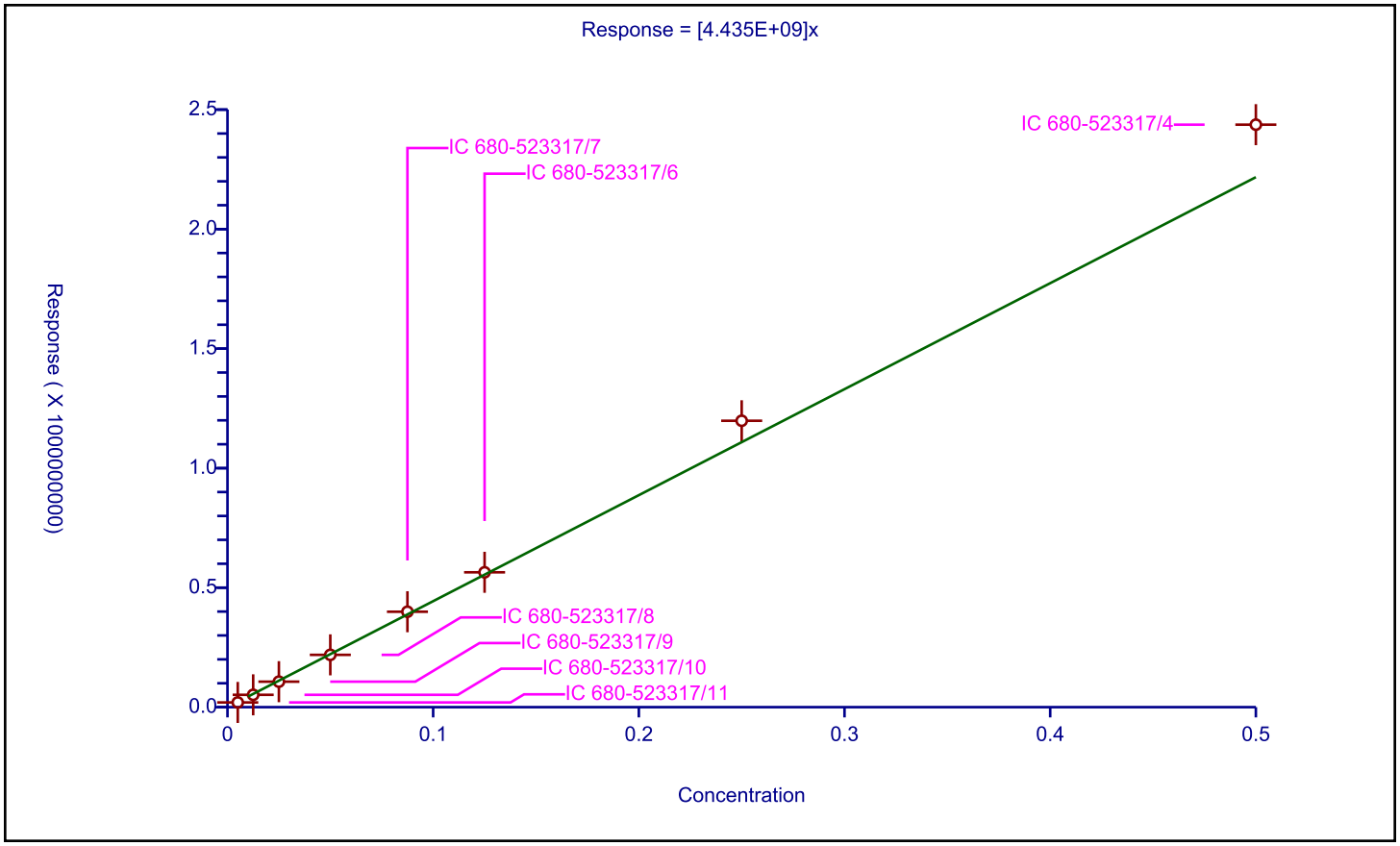
Curve Coefficients

Intercept:	0
Slope:	4.435E+09

Error Coefficients

Standard Error:	89900000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.005	19774183.0			3954836600.0	Y
2	IC 680-523317/10	0.0125	51691784.0			4135342720.0	Y
3	IC 680-523317/9	0.025	106662608.0			4266504320.0	Y
4	IC 680-523317/8	0.05	218858895.0			4377177900.0	Y
5	IC 680-523317/7	0.0875	399308905.0			4563530342.85714	Y
6	IC 680-523317/6	0.125	564195778.0			4513566224.0	Y
7	IC 680-523317/5	0.25	1198198735.0			4792794940.0	Y
8	IC 680-523317/4	0.5	2436964400.0			4873928800.0	Y



Calibration / MCPP

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

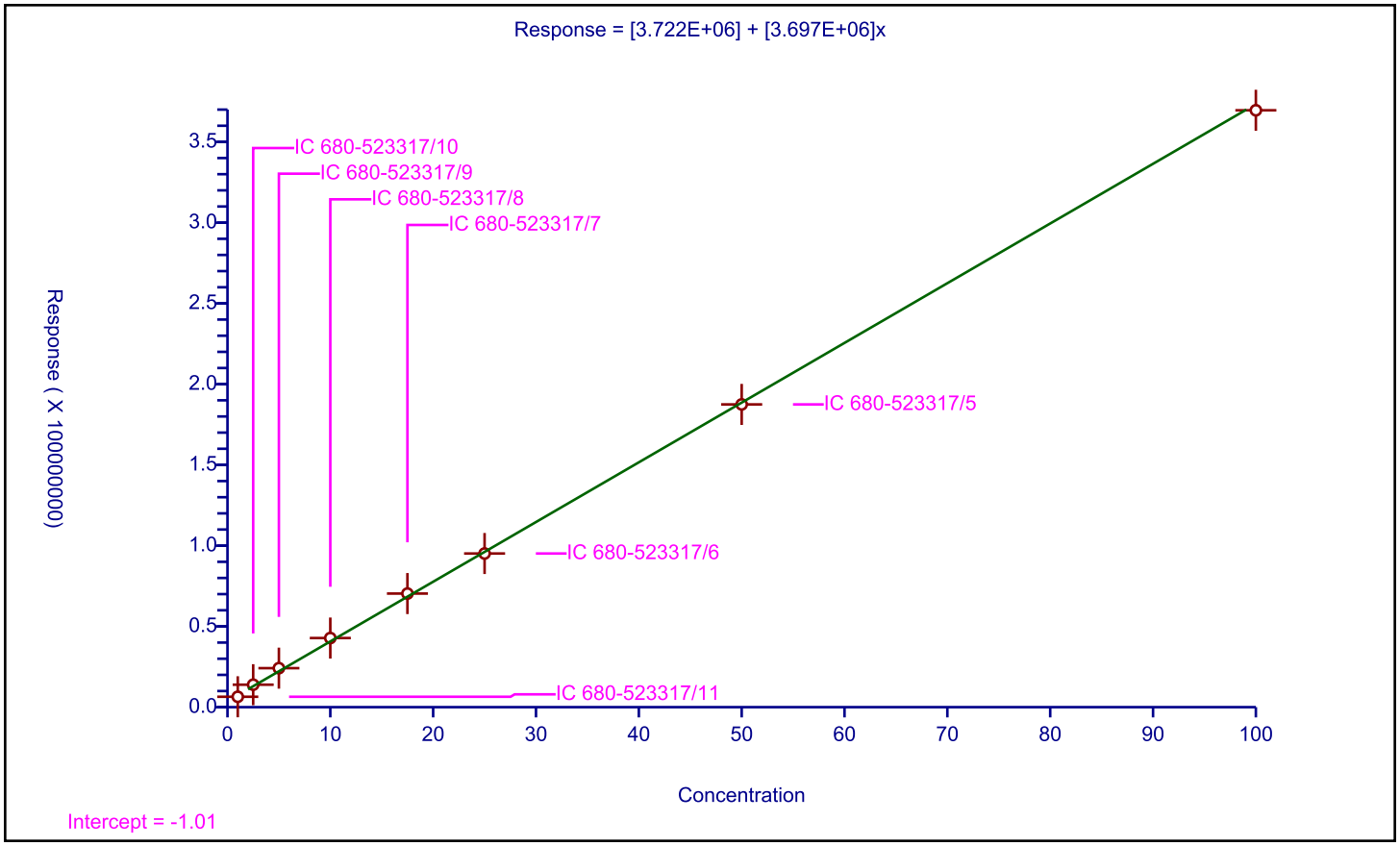
Curve Coefficients

Intercept:	3.722E+06
Slope:	3.697E+06

Error Coefficients

Standard Error:	2260000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	1.0	6429640.0			6429640.0	Y
2	IC 680-523317/10	2.5	13914604.0			5565841.6	Y
3	IC 680-523317/9	5.0	24151794.0			4830358.8	Y
4	IC 680-523317/8	10.0	42804626.0			4280462.6	Y
5	IC 680-523317/7	17.5	70347241.0			4019842.342857	Y
6	IC 680-523317/6	25.0	95134406.0			3805376.24	Y
7	IC 680-523317/5	50.0	187460762.0			3749215.24	Y
8	IC 680-523317/4	100.0	369583811.0			3695838.11	Y



Calibration / MCPA

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

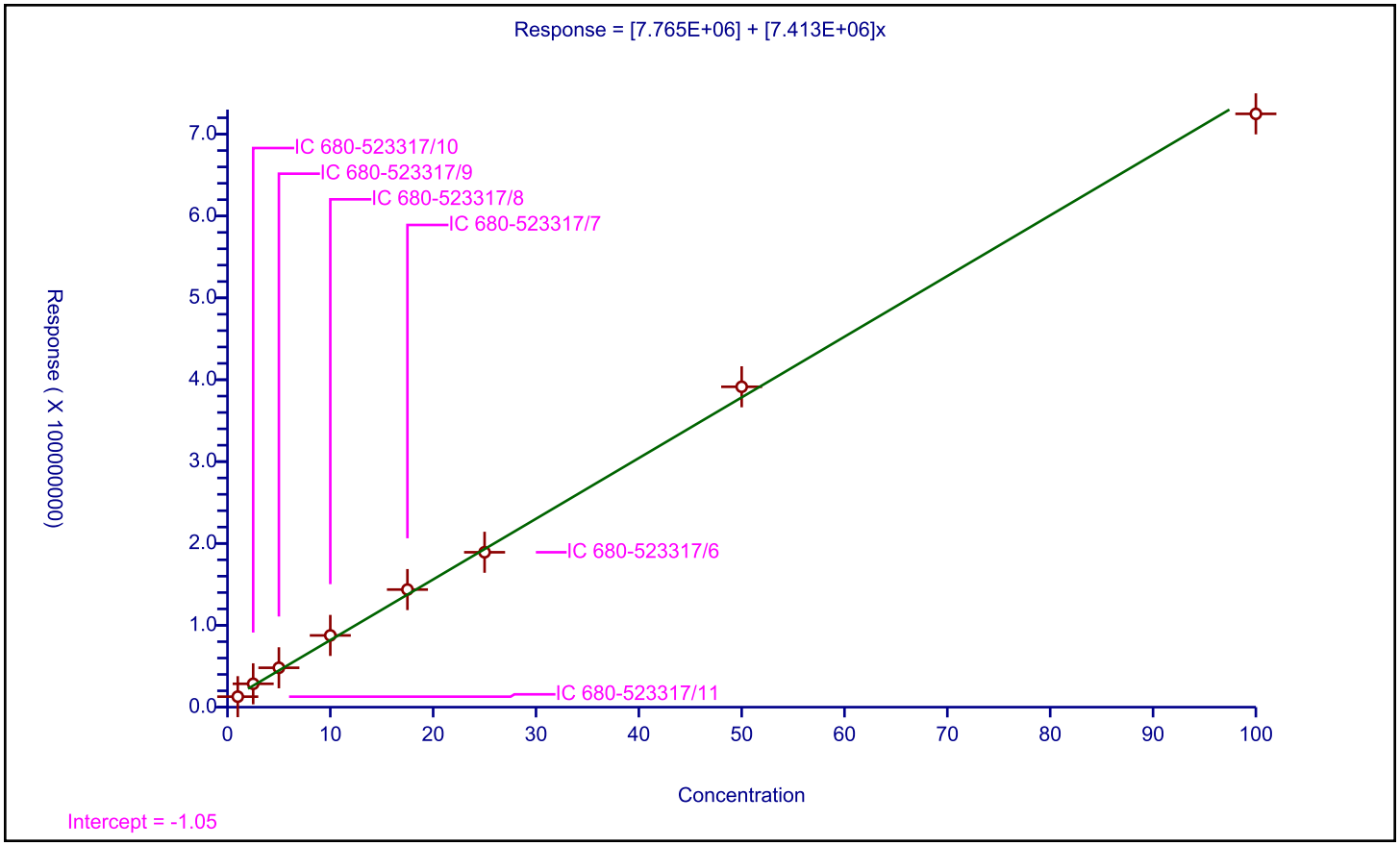
Curve Coefficients

Intercept:	7.765E+06
Slope:	7.413E+06

Error Coefficients

Standard Error:	12000000
Relative Standard Error:	15.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	1.0	12826943.0			12826943.0	Y
2	IC 680-523317/10	2.5	28551579.0			11420631.6	Y
3	IC 680-523317/9	5.0	48125167.0			9625033.4	Y
4	IC 680-523317/8	10.0	87635867.0			8763586.7	Y
5	IC 680-523317/7	17.5	143685808.0			8210617.6	Y
6	IC 680-523317/6	25.0	189250340.0			7570013.6	Y
7	IC 680-523317/5	50.0	391405967.0			7828119.34	Y
8	IC 680-523317/4	100.0	724807549.0			7248075.49	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

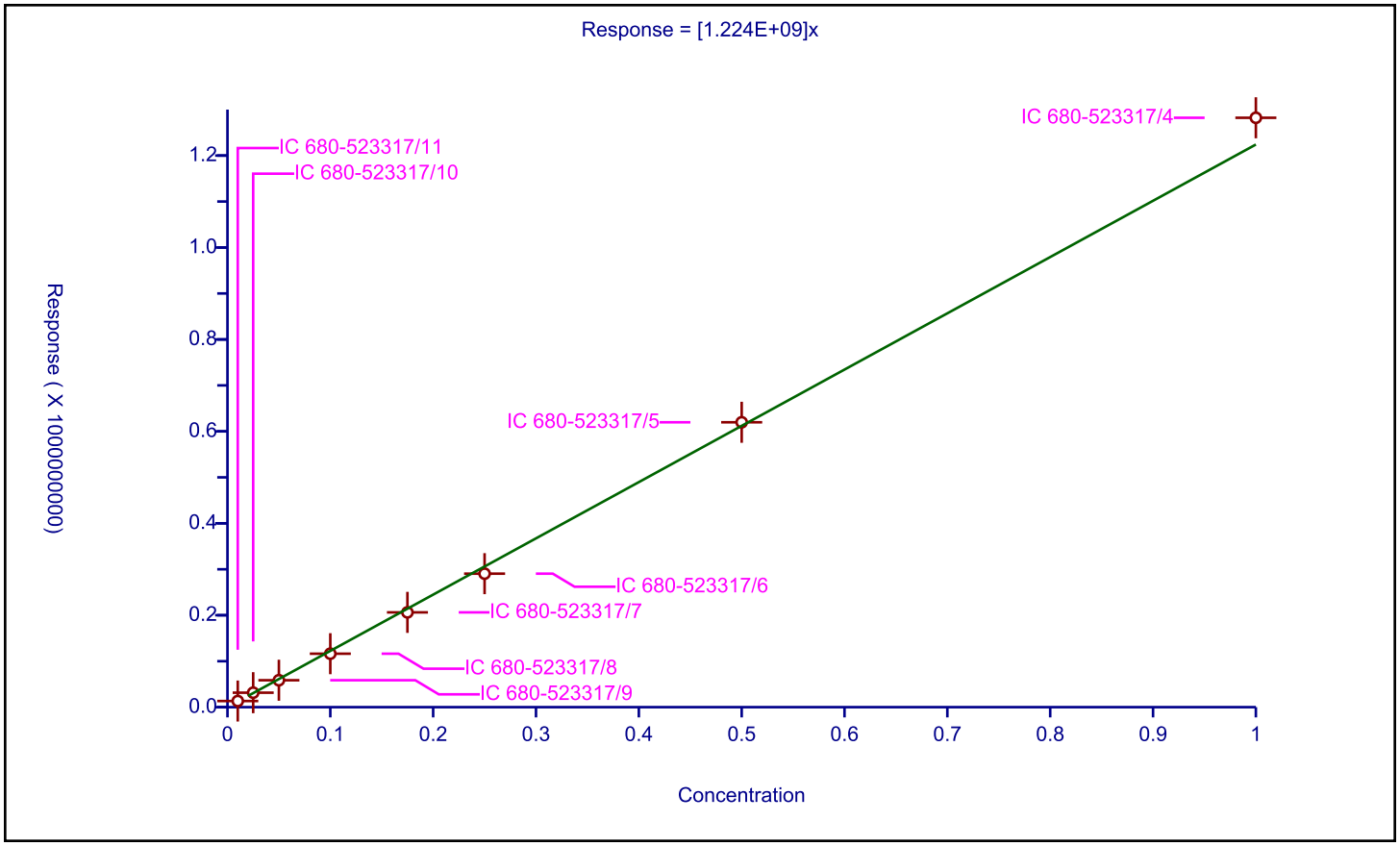
Curve Coefficients

Intercept:	0
Slope:	1.224E+09

Error Coefficients

Standard Error:	23300000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	13374924.0			1337492400.0	Y
2	IC 680-523317/10	0.025	31462180.0			1258487200.0	Y
3	IC 680-523317/9	0.05	58567059.0			1171341180.0	Y
4	IC 680-523317/8	0.1	116304622.0			1163046220.0	Y
5	IC 680-523317/7	0.175	206211940.0			1178353942.85714	Y
6	IC 680-523317/6	0.25	290450649.0			1161802596.0	Y
7	IC 680-523317/5	0.5	619789858.0			1239579716.0	Y
8	IC 680-523317/4	1.0	1282238794.0			1282238794.0	Y



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

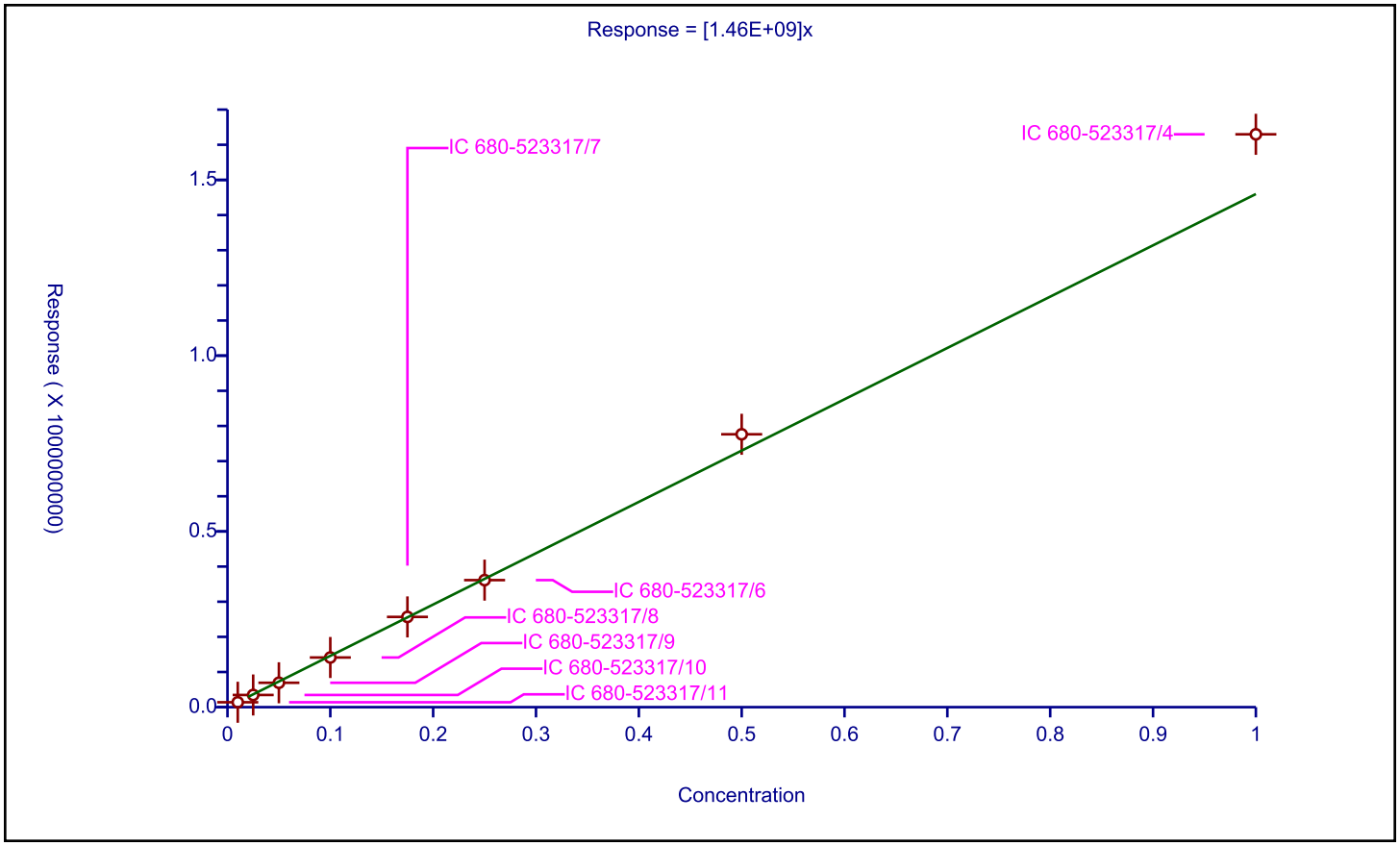
Curve Coefficients

Intercept:	0
Slope:	1.46E+09

Error Coefficients

Standard Error:	66600000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	13933080.0			1393308000.0	Y
2	IC 680-523317/10	0.025	34715108.0			1388604320.0	Y
3	IC 680-523317/9	0.05	69419021.0			1388380420.0	Y
4	IC 680-523317/8	0.1	141286640.0			1412866400.0	Y
5	IC 680-523317/7	0.175	256797724.0			1467415565.71429	Y
6	IC 680-523317/6	0.25	361394001.0			1445576004.0	Y
7	IC 680-523317/5	0.5	776315154.0			1552630308.0	Y
8	IC 680-523317/4	1.0	1629748617.0			1629748617.0	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

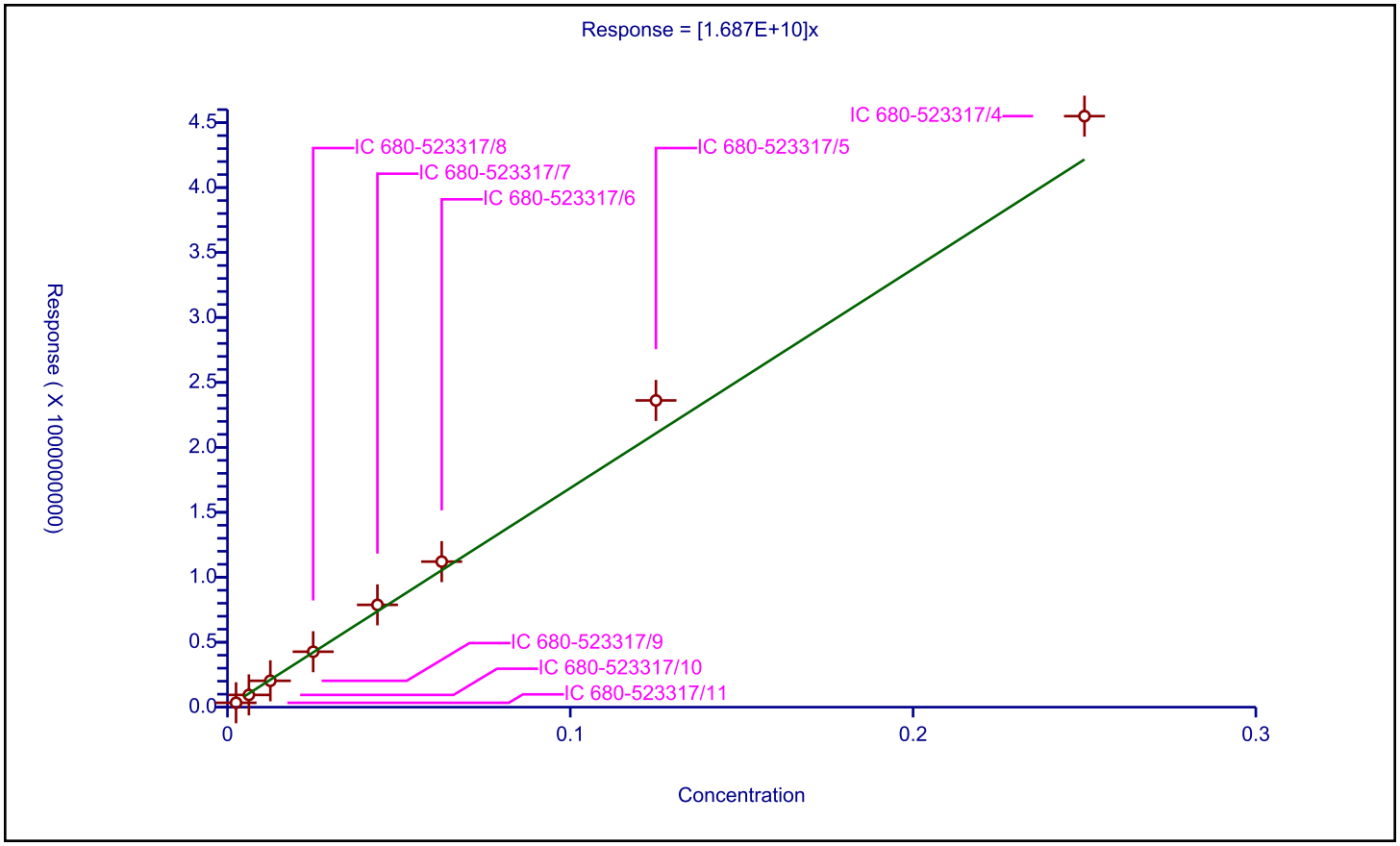
Curve Coefficients

Intercept:	0
Slope:	1.687E+10

Error Coefficients

Standard Error:	161000000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.0025	33742162.0			13496864800.0	Y
2	IC 680-523317/10	0.00625	94352178.0			15096348480.0	Y
3	IC 680-523317/9	0.0125	203051099.0			16244087920.0	Y
4	IC 680-523317/8	0.025	426702551.0			17068102040.0	Y
5	IC 680-523317/7	0.04375	787462544.0			17999143862.8571	Y
6	IC 680-523317/6	0.0625	1120470146.0			17927522336.0	Y
7	IC 680-523317/5	0.125	2361098559.0			18888788472.0	Y
8	IC 680-523317/4	0.25	4549801262.0			18199205048.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

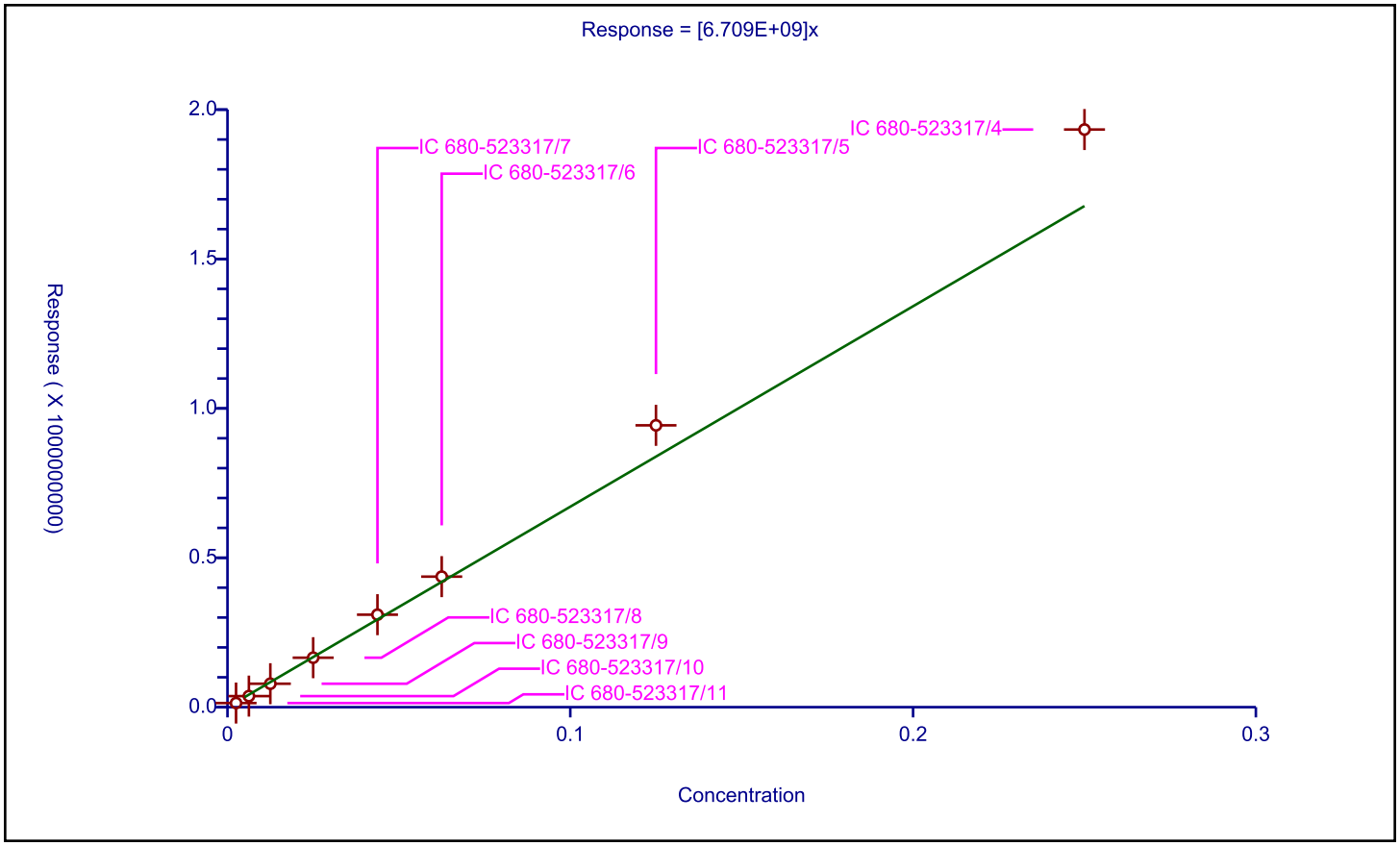
Curve Coefficients

Intercept:	0
Slope:	6.709E+09

Error Coefficients

Standard Error:	105000000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.0025	13743986.0			5497594400.0	Y
2	IC 680-523317/10	0.00625	37061107.0			5929777120.0	Y
3	IC 680-523317/9	0.0125	78461272.0			6276901760.0	Y
4	IC 680-523317/8	0.025	165575880.0			6623035200.0	Y
5	IC 680-523317/7	0.04375	309540353.0			7075208068.57143	Y
6	IC 680-523317/6	0.0625	436902458.0			6990439328.0	Y
7	IC 680-523317/5	0.125	943300131.0			7546401048.0	Y
8	IC 680-523317/4	0.25	1933247676.0			7732990704.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

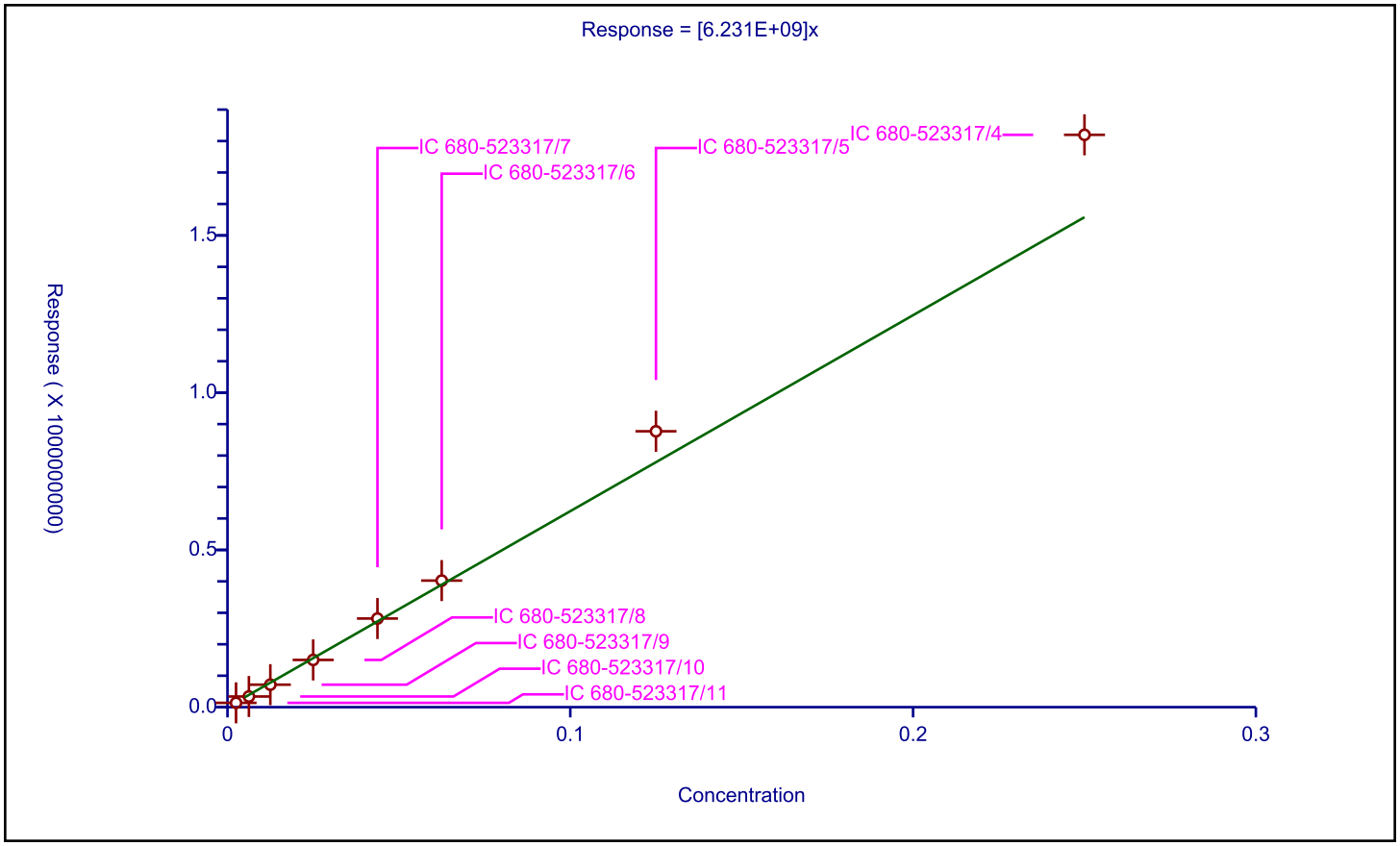
Curve Coefficients

Intercept:	0
Slope:	6.231E+09

Error Coefficients

Standard Error:	106000000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.0025	13763803.0			5505521200.0	Y
2	IC 680-523317/10	0.00625	33976230.0			5436196800.0	Y
3	IC 680-523317/9	0.0125	71548434.0			5723874720.0	Y
4	IC 680-523317/8	0.025	150219829.0			6008793160.0	Y
5	IC 680-523317/7	0.04375	281806659.0			6441295062.85714	Y
6	IC 680-523317/6	0.0625	402466907.0			6439470512.0	Y
7	IC 680-523317/5	0.125	877205524.0			7017644192.0	Y
8	IC 680-523317/4	0.25	1819790712.0			7279162848.0	Y



Calibration / Chloramben

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

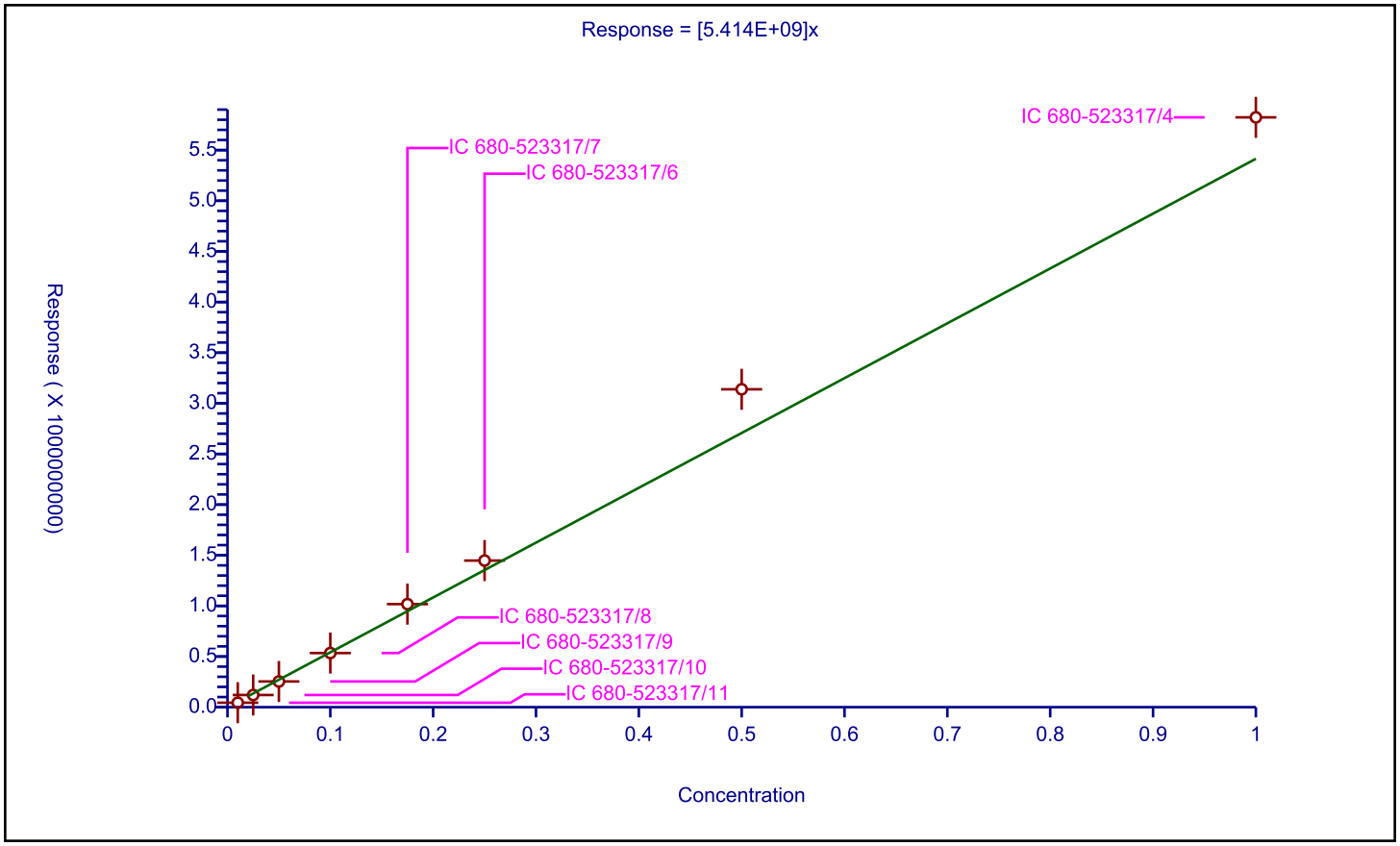
Curve Coefficients

Intercept:	0
Slope:	5.414E+09

Error Coefficients

Standard Error:	229000000
Relative Standard Error:	11.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	43902837.0			4390283700.0	Y
2	IC 680-523317/10	0.025	120073751.0			4802950040.0	Y
3	IC 680-523317/9	0.05	253737337.0			5074746740.0	Y
4	IC 680-523317/8	0.1	534232051.0			5342320510.0	Y
5	IC 680-523317/7	0.175	1017374760.0			5813570057.14286	Y
6	IC 680-523317/6	0.25	1447513965.0			5790055860.0	Y
7	IC 680-523317/5	0.5	3138504970.0			6277009940.0	Y
8	IC 680-523317/4	1.0	5823384953.0			5823384953.0	Y



Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

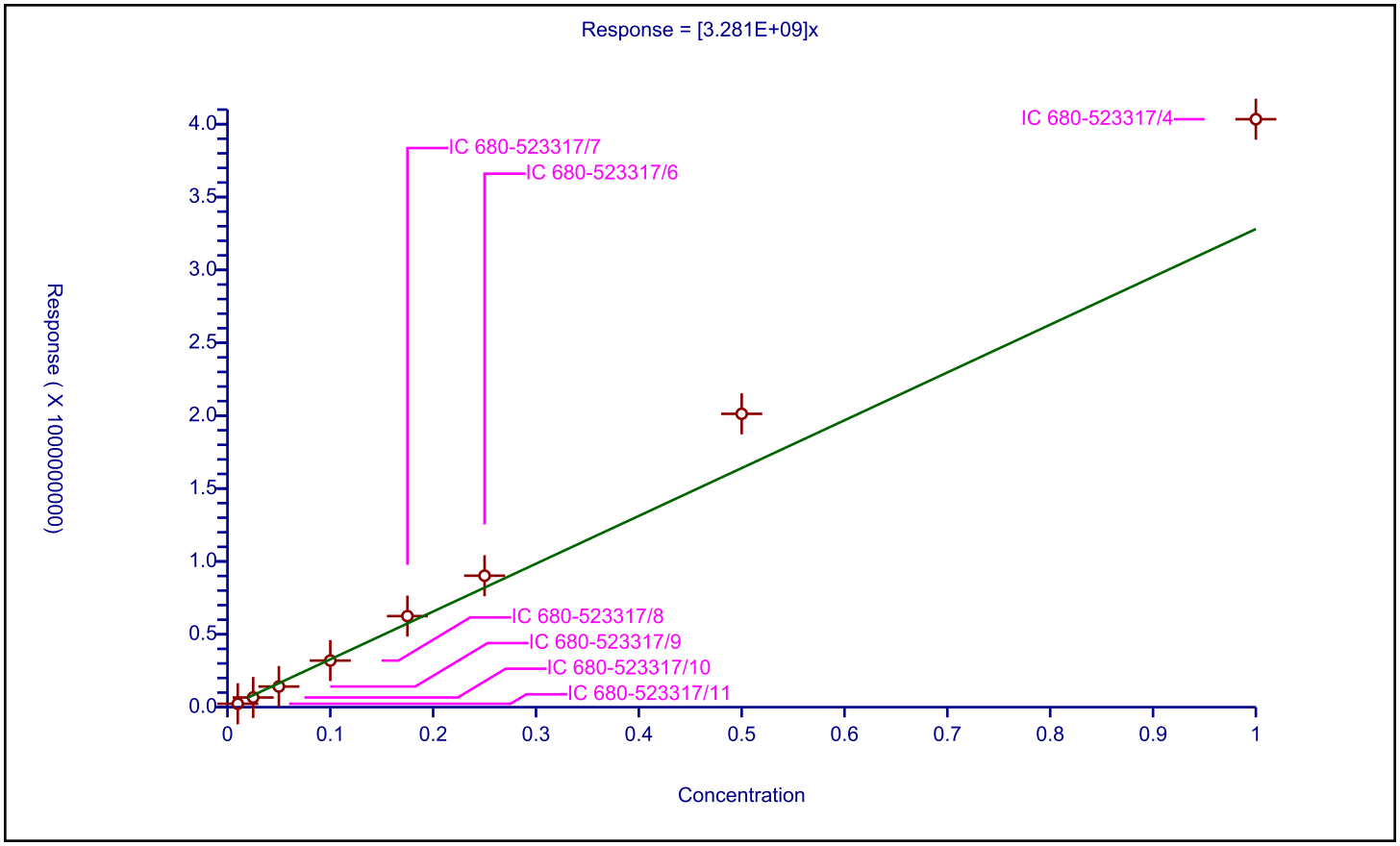
Curve Coefficients

Intercept:	0
Slope:	3.281E+09

Error Coefficients

Standard Error:	320000000
Relative Standard Error:	19.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	23228618.0			2322861800.0	Y
2	IC 680-523317/10	0.025	66394703.0			2655788120.0	Y
3	IC 680-523317/9	0.05	141523650.0			2830473000.0	Y
4	IC 680-523317/8	0.1	319720996.0			3197209960.0	Y
5	IC 680-523317/7	0.175	624797611.0			3570272062.85714	Y
6	IC 680-523317/6	0.25	901988457.0			3607953828.0	Y
7	IC 680-523317/5	0.5	2012769159.0			4025538318.0	Y
8	IC 680-523317/4	1.0	4034212367.0			4034212367.0	Y



Calibration / 2,4-DB

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

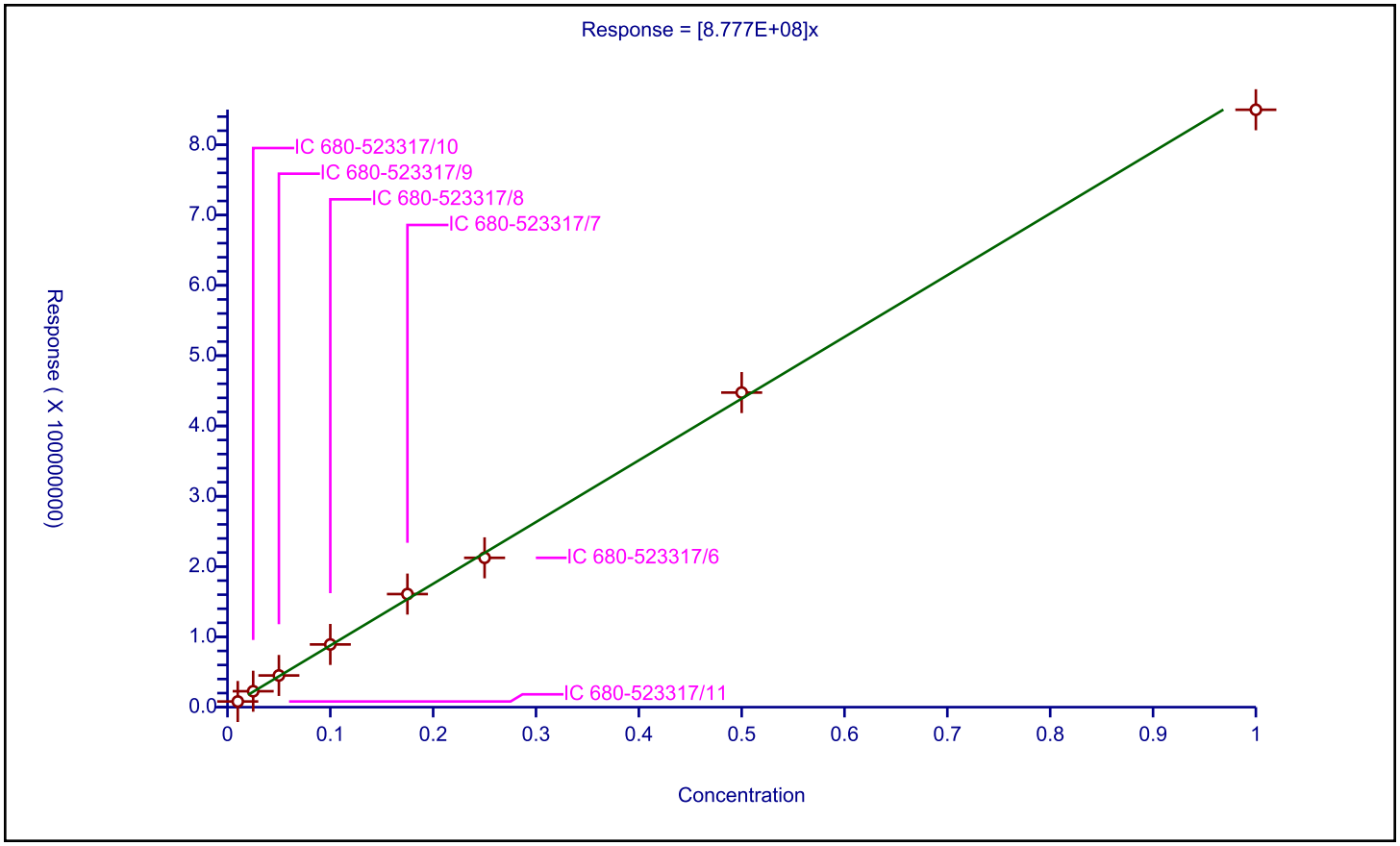
Curve Coefficients

Intercept:	0
Slope:	8.777E+08

Error Coefficients

Standard Error:	11700000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	8072867.0			807286700.0	Y
2	IC 680-523317/10	0.025	22663618.0			906544720.0	Y
3	IC 680-523317/9	0.05	45093077.0			901861540.0	Y
4	IC 680-523317/8	0.1	89229518.0			892295180.0	Y
5	IC 680-523317/7	0.175	160878564.0			919306080.0	Y
6	IC 680-523317/6	0.25	212450773.0			849803092.0	Y
7	IC 680-523317/5	0.5	447502886.0			895005772.0	Y
8	IC 680-523317/4	1.0	849802206.0			849802206.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

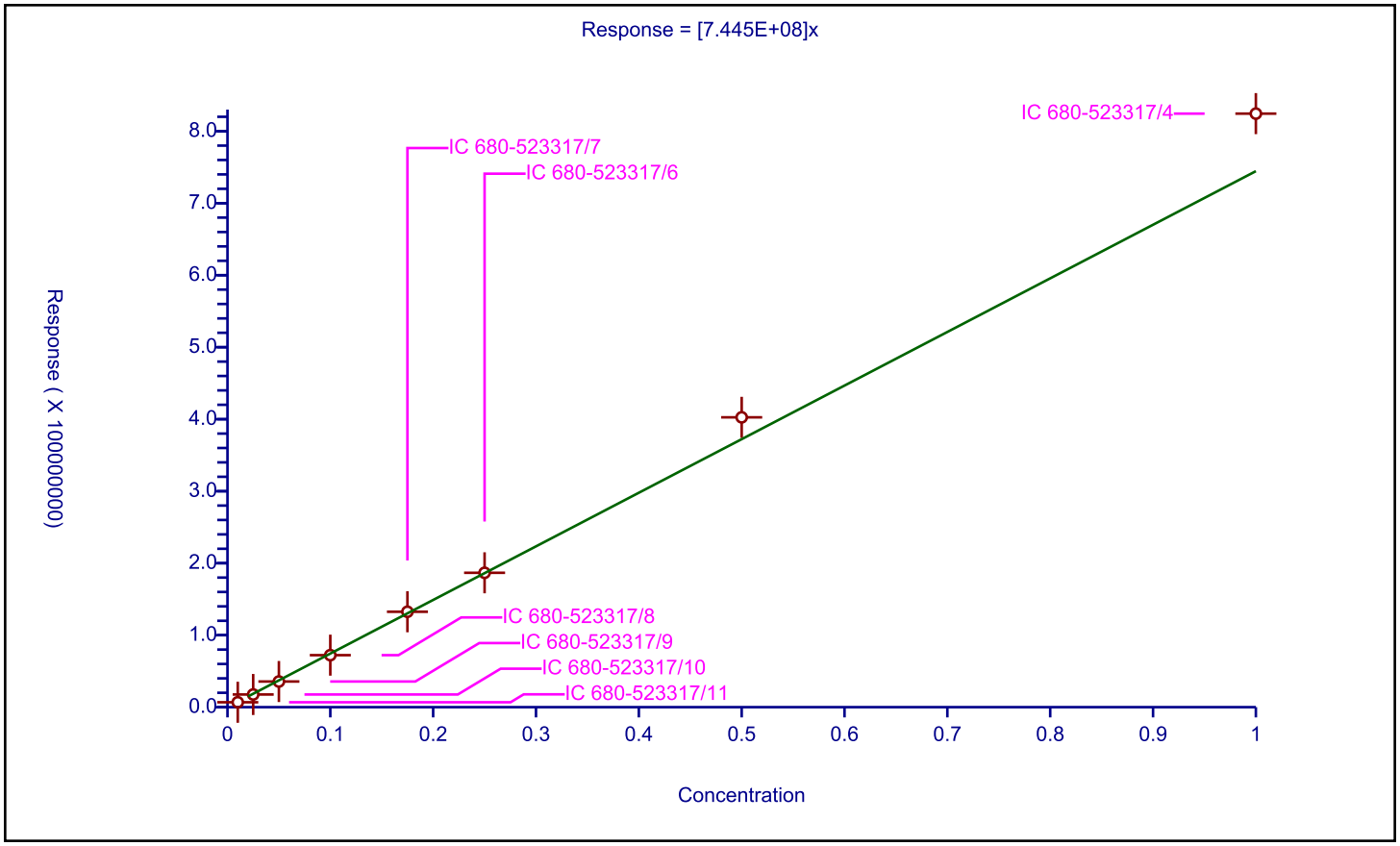
Curve Coefficients

Intercept:	0
Slope:	7.445E+08

Error Coefficients

Standard Error:	32300000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	6834492.0			683449200.0	Y
2	IC 680-523317/10	0.025	17606131.0			704245240.0	Y
3	IC 680-523317/9	0.05	35628390.0			712567800.0	Y
4	IC 680-523317/8	0.1	72241071.0			722410710.0	Y
5	IC 680-523317/7	0.175	132529059.0			757308908.571429	Y
6	IC 680-523317/6	0.25	186627828.0			746511312.0	Y
7	IC 680-523317/5	0.5	402556641.0			805113282.0	Y
8	IC 680-523317/4	1.0	824414003.0			824414003.0	Y



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

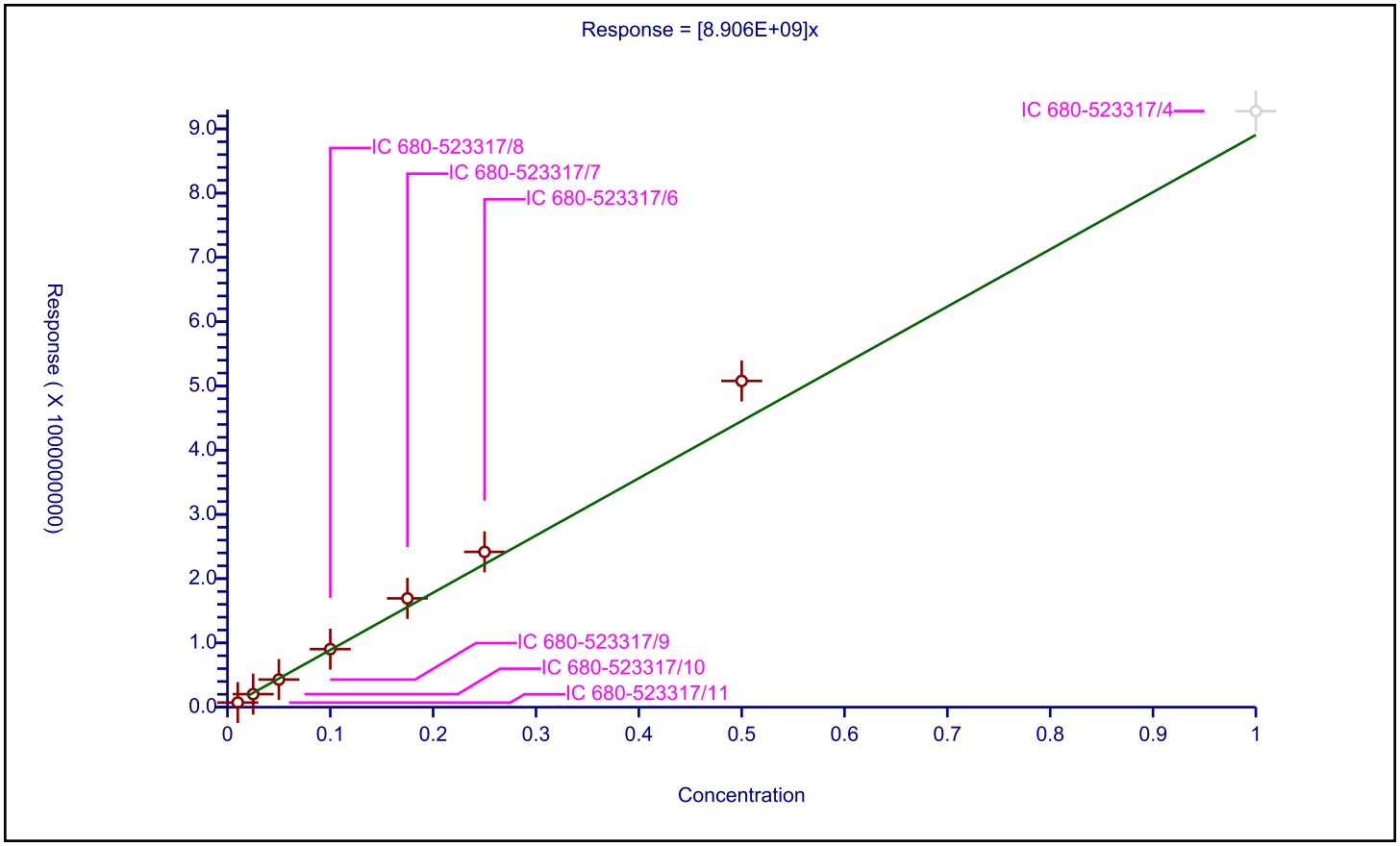
Curve Coefficients

Intercept:	0
Slope:	8.906E+09

Error Coefficients

Standard Error:	272000000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	71194571.0			7119457100.0	Y
2	IC 680-523317/10	0.025	202718580.0			8108743200.0	Y
3	IC 680-523317/9	0.05	429416896.0			8588337920.0	Y
4	IC 680-523317/8	0.1	903362678.0			9033626780.0	Y
5	IC 680-523317/7	0.175	1692976152.0			9674149440.0	Y
6	IC 680-523317/6	0.25	2416371573.0			9665486292.0	Y
7	IC 680-523317/5	0.5	5077033272.0			10154066544.0	Y
8	IC 680-523317/4	1.0	9277203223.0			9277203223.0	N



Calibration / Picloram

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

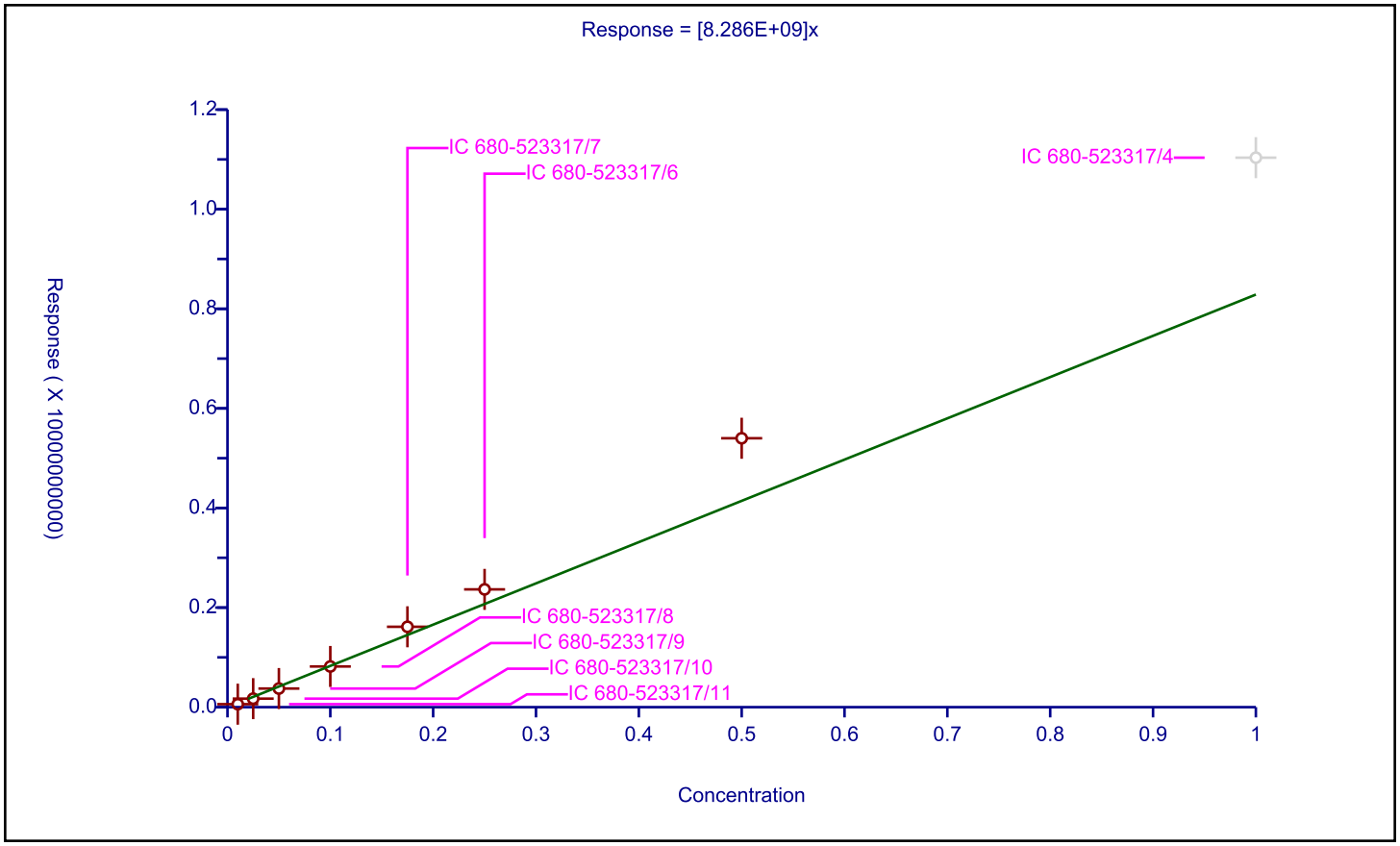
Curve Coefficients

Intercept:	0
Slope:	8.286E+09

Error Coefficients

Standard Error:	532000000
Relative Standard Error:	20.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.956

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	60165899.0			6016589900.0	Y
2	IC 680-523317/10	0.025	171088600.0			6843544000.0	Y
3	IC 680-523317/9	0.05	374069812.0			7481396240.0	Y
4	IC 680-523317/8	0.1	817209657.0			8172096570.0	Y
5	IC 680-523317/7	0.175	1614105282.0			9223458754.28572	Y
6	IC 680-523317/6	0.25	2365516502.0			9462066008.0	Y
7	IC 680-523317/5	0.5	5400334032.0			10800668064.0	Y
8	IC 680-523317/4	1.0	11034840048.0			11034840048.0	N



Calibration / Acifluorfen

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

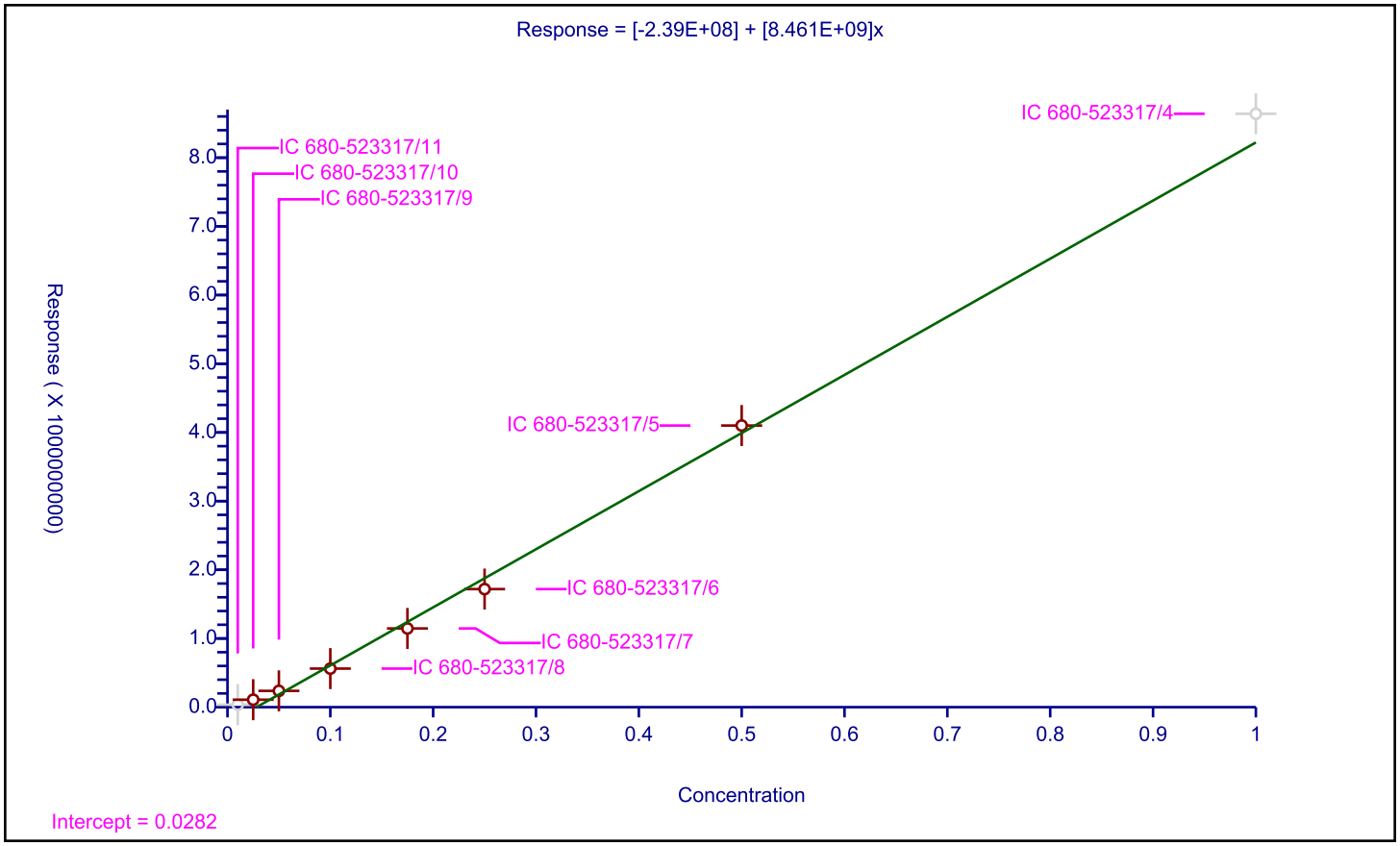
Curve Coefficients

Intercept:	-2.39E+08
Slope:	8.461E+09

Error Coefficients

Standard Error:	131000000
Relative Standard Error:	33.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523317/11	0.01	36049429.0			3604942900.0	N
2	IC 680-523317/10	0.025	108783467.0			4351338680.0	Y
3	IC 680-523317/9	0.05	237117322.0			4742346440.0	Y
4	IC 680-523317/8	0.1	561519505.0			5615195050.0	Y
5	IC 680-523317/7	0.175	1145964479.0			6548368451.42857	Y
6	IC 680-523317/6	0.25	1719149943.0			6876599772.0	Y
7	IC 680-523317/5	0.5	4100306829.0			8200613658.0	Y
8	IC 680-523317/4	1.0	8638829439.0			8638829439.0	N



FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57204

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523572/11	SE110011.D
Level 2	IC 680-523572/10	SE110010.D
Level 3	IC 680-523572/9	SE110009.D
Level 4	IC 680-523572/8	SE110008.D
Level 5	IC 680-523572/7	SE110007.D
Level 6	IC 680-523572/6	SE110006.D
Level 7	IC 680-523572/5	SE110005.D
Level 8	IC 680-523572/4	SE110004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	+++++	2.435	2.436	2.434	2.437	2.436	2.436	2.436			2.414 - 2.454	2.436
3,5-Dichlorobenzoic acid	6.015	6.015	6.015	6.015	6.014	6.014	6.014	6.014			6.005 - 6.025	6.015
4-Nitrophenol	6.144	6.144	6.141	6.141	6.140	6.140	6.139	6.139			6.131 - 6.151	6.141
Dicamba	6.608	6.609	6.608	6.609	6.608	6.608	6.607	6.609			6.599 - 6.619	6.608
MCPP	6.757	6.757	6.756	6.757	6.757	6.757	6.758	6.761			6.747 - 6.767	6.758
MCPA	6.883	6.884	6.883	6.883	6.884	6.884	6.885	6.888			6.873 - 6.893	6.884
Dichlorprop	7.070	7.070	7.069	7.069	7.069	7.068	7.068	7.069			7.059 - 7.079	7.069
2,4-D	7.215	7.215	7.213	7.214	7.212	7.212	7.212	7.213			7.204 - 7.224	7.213
Pentachlorophenol	7.562	7.562	7.561	7.562	7.562	7.562	7.562	7.564			7.552 - 7.572	7.562
Silvex (2,4,5-TP)	7.662	7.661	7.661	7.661	7.662	7.662	7.661	7.661			7.651 - 7.671	7.661
Chloramben	7.740	7.740	7.739	7.739	7.739	7.738	7.738	7.740			7.729 - 7.749	7.739
2,4,5-T	7.817	7.818	7.816	7.816	7.816	7.816	7.816	7.816			7.806 - 7.826	7.816
2,4-DB	8.061	8.060	8.059	8.059	8.059	8.058	8.057	8.058			8.049 - 8.069	8.059
Dinoseb	8.112	8.113	8.112	8.113	8.112	8.112	8.112	8.113			8.103 - 8.123	8.112
Bentazon	8.185	8.185	8.184	8.184	8.184	8.183	8.184	8.185			8.174 - 8.194	8.184
Picloram	8.401	8.401	8.399	8.399	8.400	8.399	8.399	8.401			8.389 - 8.409	8.400
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.502	8.503	8.502	8.504	8.503	8.503	8.504	8.506			8.494 - 8.514	8.503
Acifluorfen	9.541	9.543	9.541	9.543	9.543	9.542	9.542	9.545			9.533 - 9.553	9.543
2,4-Dichlorophenylacetic acid (Surr)	+++++	6.573	6.572	6.572	6.572	6.572	6.572	6.572			6.562 - 6.582	6.572

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57204

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523572/11	SE110011.D
Level 2	IC 680-523572/10	SE110010.D
Level 3	IC 680-523572/9	SE110009.D
Level 4	IC 680-523572/8	SE110008.D
Level 5	IC 680-523572/7	SE110007.D
Level 6	IC 680-523572/6	SE110006.D
Level 7	IC 680-523572/5	SE110005.D
Level 8	IC 680-523572/4	SE110004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	+++++ 475365914	425466680 429248068	417333840 419316466	393083260 445432487	Lin2	-422831.35	434317273							0.9950		0.9900
3,5-Dichlorobenzoic acid	359391900 304731257	259477520 271512312	277447620 265580398	249038430 284813773	Ave		283999151				12.3		20.0			
4-Nitrophenol	116682800 102918989	81594680 89683356	97416140 84231524	85154640 81893704	Ave		92446979.1				13.4		20.0			
Dicamba	1068255600 1006175600	771655200 904138312	832708400 889610616	783341800 965139634	Ave		902628145				11.7		20.0			
MCPP	593694 673461	532551 609848	630380 616690	563004 563752	Ave		597922.495				7.5		20.0			
MCPA	1032647 828780	771806 733781	808329 665897	694617 653774	Lin1	442417.200	672658.940							0.9940		0.9900
Dichlorprop	299495300 248538754	210240520 222722320	219626240 214087318	198316610 228040422	Ave		230133436				13.7		20.0			
2,4-D	328229300 298580629	250118480 268581372	258393500 260956174	237109120 283206384	Ave		273146870				10.7		20.0			
Pentachlorophenol	4466525200 4976300777	3466659200 4611789840	3853016400 4607816120	3804726960 5184827392	Ave		4371457736				13.8		20.0			
Silvex (2,4,5-TP)	1702858400 1792979017	1306466720 1678190096	1433926080 1664299856	1411822200 1777843544	Ave		1596048239				11.6		20.0			
Chloramben	1320280700 1488510709	1067440840 1432421924	1190884060 1453858096	1190261580 1691205537	Ave		1354357931				14.9		20.0			
2,4,5-T	1740120800 1693245394	1352074240 1594846624	1439267600 1556130672	1384174120 1648471104	Ave		1551041319				9.4		20.0			
2,4-DB	173240900 152833880	129425880 147262332	135454160 144712624	130865080 152037719	Ave		145729072				9.9		20.0			
Dinoseb	960946300 1015301286	717795920 967555344	800621220 930777290	780832810 1081702187	Ave		906941545				14.0		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57204

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Bentazon	281190200 232494326	197017200 221186052	203829500 213725444	196518460 223603698	Ave		221195610				12.4		20.0			
Picloram	2152300000 2391647760	1706193720 2422168940	1954537320 2499075456	1973474620 3000904008	Ave		2262537728				17.9		20.0			
Tetraphthalic acid, tetrachloro-, dimethyl	2516695800 2601138046	1976854680 2491334688	2169539400 2519232452	2164278250 2871660154	Ave		2413841684				12.0		20.0			
Acifluorfen	1668406200 1985912429	1260872520 2047417004	1503391480 2032831204	1485392750 2547153916	Qua	-2384687.6	1677029935	866603389						0.9990		0.9900
2,4-Dichlorophenylacetic acid (Surr)	+++++ 194625280	164114200 171684468	172740980 166138544	156748890 177446511	Ave		171928410				7.0		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57204

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523572/11	SE110011.D
Level 2	IC 680-523572/10	SE110010.D
Level 3	IC 680-523572/9	SE110009.D
Level 4	IC 680-523572/8	SE110008.D
Level 5	IC 680-523572/7	SE110007.D
Level 6	IC 680-523572/6	SE110006.D
Level 7	IC 680-523572/5	SE110005.D
Level 8	IC 680-523572/4	SE110004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Lin2	+++++ 107312017	10636667 209658233	20866692 445432487	39308326	83189035	+++++ 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
3,5-Dichlorobenzoic acid	Ave	3593919 67878078	6486938 132790199	13872381 284813773	24903843	53327970	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
4-Nitrophenol	Ave	1166828 22420839	2039867 42115762	4870807 81893704	8515464	18010823	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dicamba	Ave	5341278 113017289	9645690 222402654	20817710 482569817	39167090	88040365	0.00500 0.125	0.0125 0.250	0.0250 0.500	0.0500	0.0875
MCPP	Ave	593694 15246200	1331377 30834503	3151900 56375223	5630043	11785560	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
MCPA	Lin1	1032647 18344524	1929514 33294860	4041645 65377356	6946174	14503654	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
Dichlorprop	Ave	2994953 55680580	5256013 107043659	10981312 228040422	19831661	43494282	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4-D	Ave	3282293 67145343	6252962 130478087	12919675 283206384	23710912	52251610	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Pentachlorophenol	Ave	11166313 288236865	21666620 575977015	48162705 1296206848	95118174	217713159	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
Silvex (2,4,5-TP)	Ave	4257146 104886881	8165417 208037482	17924076 444460886	35295555	78442832	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
Chloramben	Ave	13202807 358105481	26686021 726929048	59544203 1691205537	119026158	260489374	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4,5-T	Ave	4350302 99677914	8450464 194516334	17990845 412117776	34604353	74079486	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
2,4-DB	Ave	1732409 36815583	3235647 72356312	6772708 152037719	13086508	26745929	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dinoseb	Ave	9609463 241888836	17944898 465388645	40031061 1081702187	78083281	177677725	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Bentazon	Ave	2811902 55296513	4925430 106862722	10191475 223603698	19651846	40686507	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57204

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Picloram	Ave	21523000 605542235	42654843 1249537728	97726866 3000904008	197347462	418538358	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	25166958 622833672	49421367 1259616226	108476970 2871660154	216427825	455199158	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Acifluorfen	Qua	16684062 511854251	31521813 1016415602	75169574 2547153916	148539275	347534675	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	+++++ 42921117	4102855 83069272	8637049 177446511	15674889	34059424	+++++ 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
Qua = Quadratic

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 11-May-2018 11:46:27 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:16 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	445432487	1.00	1.03	
2	2.490	2.487	0.003	1564268680	1.00	1.13	
						RPD = 9.46	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	84362002	NC	NC	
2	4.997	4.996	0.001	491495600	NC	NC	
						RPD = 0.94	
3 2,4,6-Trichlorophenol							
1	5.679	5.678	0.001	1193993944	NC	NC	
2	5.672	5.668	0.004	4815793939	NC	NC	
						RPD = 6.57	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	284813773	1.00	1.00	
2	6.011	6.009	0.002	1694404983	1.00	1.10	
						RPD = 9.66	
5 4-Nitrophenol							
1	6.139	6.141	-0.002	81893704	1.00	0.8858	
2	6.392	6.394	-0.002	266999376	1.00	1.05	
						RPD = 16.55	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	177446511	1.00	1.03	
2	6.721	6.720	0.001	1298301676	1.00	1.14	
						RPD = 9.63	
7 Dicamba							
1	6.609	6.609	0.000	482569817	0.5000	0.5346	
2	6.804	6.800	0.004	2404283458	0.5000	0.5665	
						RPD = 5.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.761	6.757	0.004	56375223	100.0	94.3	
2	6.852	6.848	0.004	381942979	100.0	102.6	
						RPD = 8.45	
9 MCPA							
1	6.888	6.883	0.005	65377356	100.0	96.5	
2	7.051	7.046	0.005	746688222	100.0	104.3	
						RPD = 7.72	
10 Dichlorprop							
1	7.069	7.069	0.000	228040422	1.00	0.99	
2	7.194	7.191	0.003	1258500696	1.00	1.10	
						RPD = 10.23	
11 2,4-D							
1	7.213	7.214	-0.001	283206384	1.00	1.04	
2	7.413	7.412	0.001	1543015821	1.00	1.23	
						RPD = 16.70	
12 Pentachlorophenol							
1	7.564	7.562	0.002	1296206848	0.2500	0.2965	
2	7.610	7.605	0.005	4357611017	0.2500	0.2779	
						RPD = 6.47	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	444460886	0.2500	0.2785	
2	7.746	7.744	0.002	1856270815	0.2500	0.3074	
						RPD = 9.87	
14 Chloramben							
1	7.740	7.739	0.001	1691205537	1.00	1.25	
2	8.052	8.049	0.003	5403593588	1.00	1.14	
						RPD = 8.95	
15 2,4,5-T							
1	7.816	7.816	0.000	412117776	0.2500	0.2657	
2	7.978	7.976	0.002	1686681883	0.2500	0.3287	
						RPD = 21.20	
16 2,4-DB							
1	8.058	8.059	-0.001	152037719	1.00	1.04	
2	8.191	8.190	0.001	815688293	1.00	1.12	
						RPD = 7.23	
17 Dinoseb							
1	8.113	8.113	0.000	1081702187	1.00	1.19	
2	8.146	8.141	0.005	3848176282	1.00	1.09	
						RPD = 8.92	
18 Bentazon							
1	8.185	8.184	0.001	223603698	1.00	1.01	
2	8.546	8.544	0.002	773013995	1.00	1.10	
						RPD = 8.20	
19 Picloram							
1	8.401	8.399	0.002	3000904008	1.00	1.33	
2	8.884	8.877	0.007	9495361307	1.00	1.05	
						RPD = 23.16	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.506	8.504	0.002	2871660154	1.00	1.19	
2	8.664	8.658	0.006	8774731681	1.00	1.08	
						RPD = 9.58	
21 Acifluorfen							
1	9.545	9.543	0.002	2547153916	1.00	1.00	
2	9.683	9.677	0.006	8061124513	1.00	1.00	
						RPD = 0.22	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

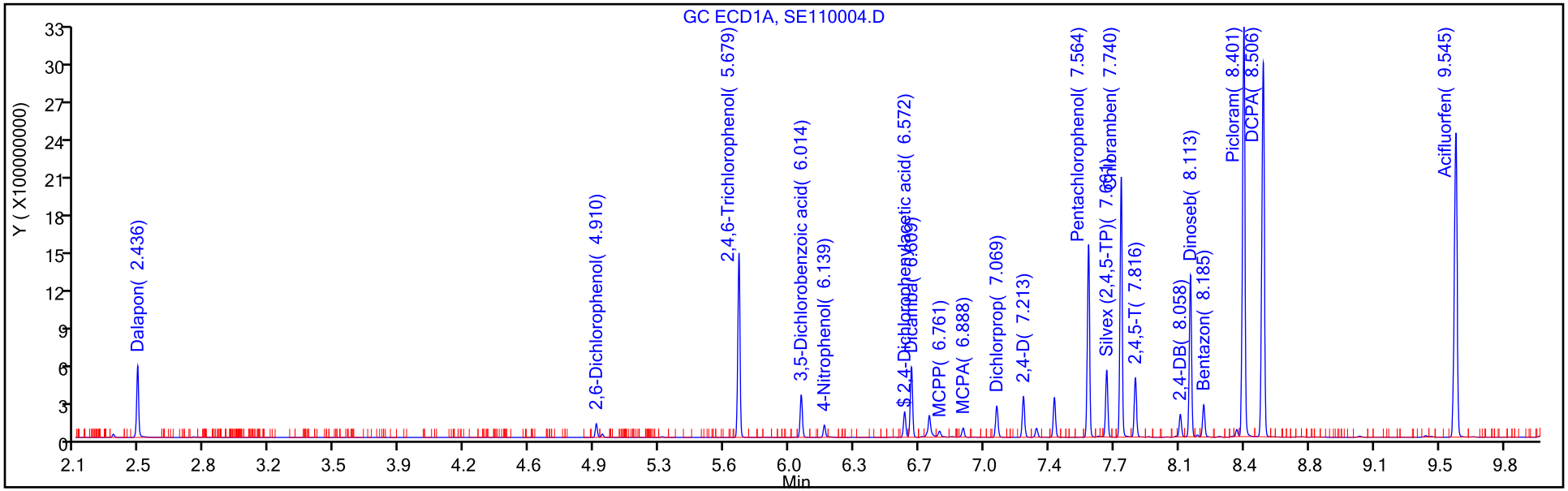
Report Date: 11-May-2018 16:22:18 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

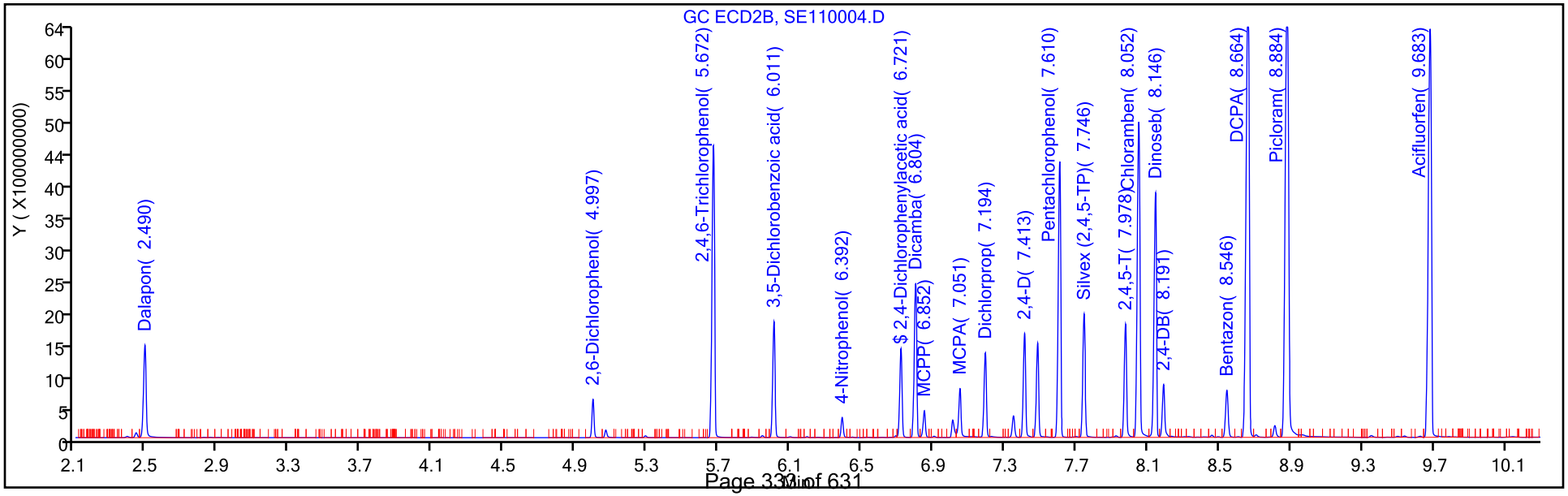
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110004.D

Injection Date:	11-May-2018 11:46:27	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-May-2018 12:06:02 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:23 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	209658233	0.5000	0.4837	
2	2.488	2.487	0.001	713286748	0.5000	0.5146	
						RPD = 6.18	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	40538544	NC	NC	
2	4.997	4.996	0.001	230188115	NC	NC	
						RPD = 1.17	
3 2,4,6-Trichlorophenol							
1	5.678	5.678	0.000	538201950	NC	NC	
2	5.671	5.668	0.003	2375427992	NC	NC	
						RPD = 2.44	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	132790199	0.5000	0.4676	
2	6.009	6.009	0.000	763230217	0.5000	0.4976	
						RPD = 6.22	
5 4-Nitrophenol							
1	6.139	6.141	-0.002	42115762	0.5000	0.4556	
2	6.392	6.394	-0.002	118457210	0.5000	0.4639	
						RPD = 1.81	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	83069272	0.5000	0.4832	
2	6.720	6.720	0.000	580202590	0.5000	0.5079	
						RPD = 4.99	
7 Dicamba							
1	6.607	6.609	-0.002	222402654	0.2500	0.2464	
2	6.802	6.800	0.002	1095984345	0.2500	0.2582	
						RPD = 4.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.758	6.757	0.001	30834503	50.0	51.6	
2	6.850	6.848	0.002	174315420	50.0	46.3	
						RPD = 10.75	
9 MCPA							
1	6.885	6.883	0.002	33294860	50.0	48.8	
2	7.048	7.046	0.002	339905374	50.0	47.0	
						RPD = 3.82	
10 Dichlorprop							
1	7.068	7.069	-0.001	107043659	0.5000	0.4651	
2	7.192	7.191	0.001	551527466	0.5000	0.4811	
						RPD = 3.37	
11 2,4-D							
1	7.212	7.214	-0.002	130478087	0.5000	0.4777	
2	7.411	7.412	-0.001	670180977	0.5000	0.5324	
						RPD = 10.83	
12 Pentachlorophenol							
1	7.562	7.562	0.000	575977015	0.1250	0.1318	
2	7.607	7.605	0.002	2104701924	0.1250	0.1342	
						RPD = 1.87	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	208037482	0.1250	0.1303	
2	7.745	7.744	0.001	820494148	0.1250	0.1359	
						RPD = 4.15	
14 Chloramben							
1	7.738	7.739	-0.001	726929048	0.5000	0.5367	
2	8.051	8.049	0.002	2579520319	0.5000	0.5450	
						RPD = 1.53	
15 2,4,5-T							
1	7.816	7.816	0.000	194516334	0.1250	0.1254	
2	7.977	7.976	0.001	735201390	0.1250	0.1433	
						RPD = 13.31	
16 2,4-DB							
1	8.057	8.059	-0.002	72356312	0.5000	0.4965	
2	8.190	8.190	0.000	355862410	0.5000	0.4893	
						RPD = 1.46	
17 Dinoseb							
1	8.112	8.113	-0.001	465388645	0.5000	0.5131	
2	8.143	8.141	0.002	1621278512	0.5000	0.4988	
						RPD = 2.83	
18 Bentazon							
1	8.184	8.184	0.000	106862722	0.5000	0.4831	
2	8.544	8.544	0.000	357621900	0.5000	0.5076	
						RPD = 4.95	
19 Picloram							
1	8.399	8.399	0.000	1249537728	0.5000	0.5523	
2	8.879	8.877	0.002	4465456894	0.5000	0.4992	
						RPD = 10.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.504	8.504	0.000	1259616226	0.5000	0.5218	
2	8.661	8.658	0.003	4420541185	0.5000	0.5446	
						RPD = 4.26	
21 Acifluorfen							
1	9.542	9.543	-0.001	1016415602	0.5000	0.4856	
2	9.680	9.677	0.003	3521187147	0.5000	0.5013	
						RPD = 3.17	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

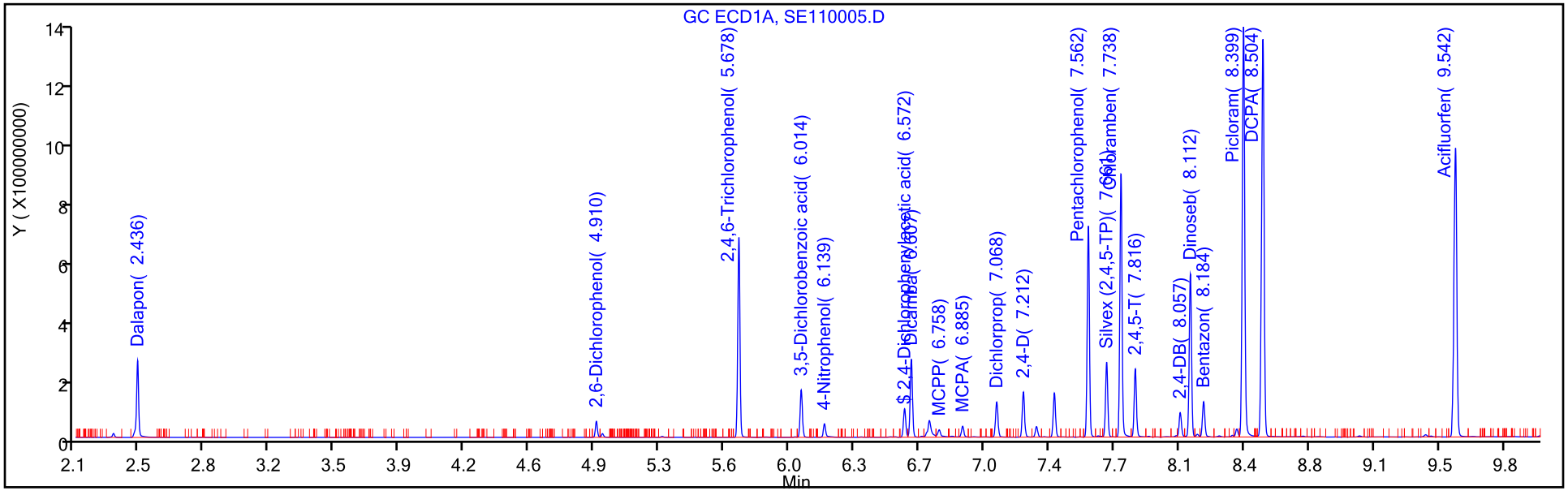
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TestAmerica Savannah

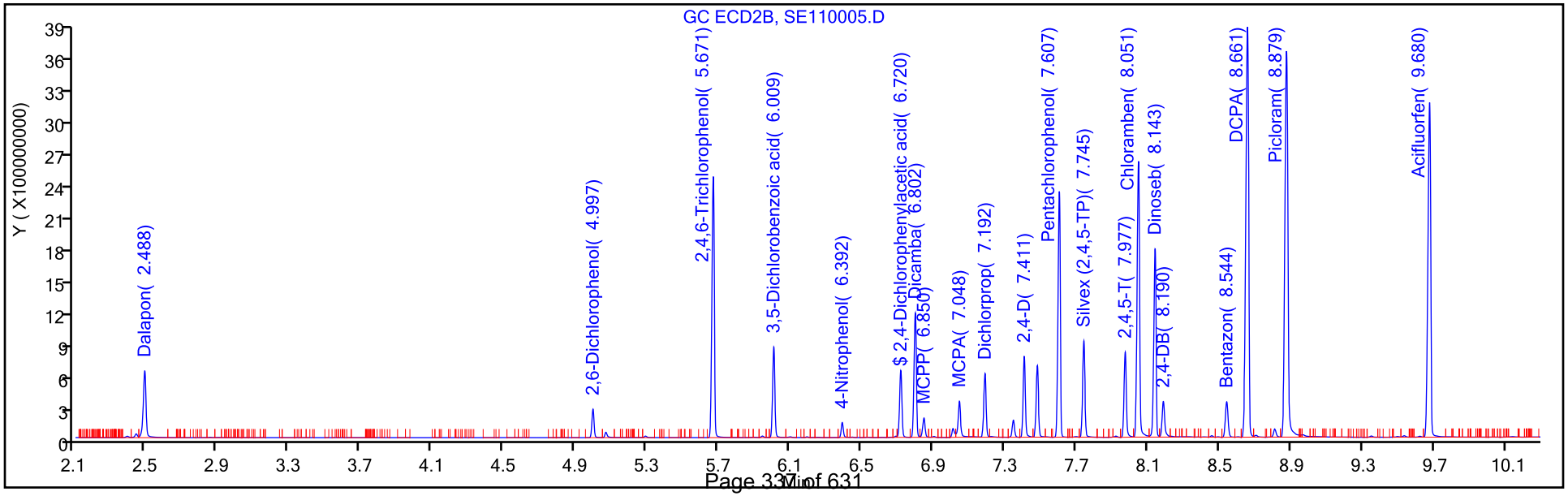
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110005.D

Injection Date:	11-May-2018 12:06:02	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-May-2018 12:25:37 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:31 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	107312017	0.2500	0.2481	
2	2.488	2.487	0.001	349811806	0.2500	0.2524	
						RPD = 1.72	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	21230930	NC	NC	
2	4.997	4.996	0.001	116495350	NC	NC	
						RPD = 3.79	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	268607524	NC	NC	
2	5.670	5.668	0.002	1191757936	NC	NC	
						RPD = 2.96	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	67878078	0.2500	0.2390	
2	6.008	6.009	-0.001	381708442	0.2500	0.2488	
						RPD = 4.03	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	22420839	0.2500	0.2425	
2	6.392	6.394	-0.002	62120881	0.2500	0.2433	
						RPD = 0.31	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	42921117	0.2500	0.2496	
2	6.720	6.720	0.000	292178575	0.2500	0.2558	
						RPD = 2.42	
7 Dicamba							
1	6.608	6.609	-0.001	113017289	0.1250	0.1252	
2	6.800	6.800	0.000	544423487	0.1250	0.1283	
						RPD = 2.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	15246200	25.0	25.5	
2	6.848	6.848	0.000	94830943	25.0	24.8	
						RPD = 2.95	
9 MCPA							
1	6.884	6.883	0.001	18344524	25.0	26.6	
2	7.047	7.046	0.001	183361188	25.0	25.0	
						RPD = 6.38	
10 Dichlorprop							
1	7.068	7.069	-0.001	55680580	0.2500	0.2419	
2	7.192	7.191	0.001	274754281	0.2500	0.2397	
						RPD = 0.95	
11 2,4-D							
1	7.212	7.214	-0.002	67145343	0.2500	0.2458	
2	7.411	7.412	-0.001	329478639	0.2500	0.2617	
						RPD = 6.27	
12 Pentachlorophenol							
1	7.562	7.562	0.000	288236865	0.0625	0.0659	
2	7.606	7.605	0.001	1054239941	0.0625	0.0672	
						RPD = 1.96	
13 Silvex (2,4,5-TP)							
1	7.662	7.661	0.001	104886881	0.0625	0.0657	
2	7.744	7.744	0.000	401209207	0.0625	0.0664	
						RPD = 1.09	
14 Chloramben							
1	7.738	7.739	-0.001	358105481	0.2500	0.2644	
2	8.049	8.049	0.000	1290053084	0.2500	0.2726	
						RPD = 3.04	
15 2,4,5-T							
1	7.816	7.816	0.000	99677914	0.0625	0.0643	
2	7.976	7.976	0.000	353637241	0.0625	0.0689	
						RPD = 6.99	
16 2,4-DB							
1	8.058	8.059	-0.001	36815583	0.2500	0.2526	
2	8.189	8.190	-0.001	177870018	0.2500	0.2446	
						RPD = 3.24	
17 Dinoseb							
1	8.112	8.113	-0.001	241888836	0.2500	0.2667	
2	8.142	8.141	0.001	779848561	0.2500	0.2534	
						RPD = 5.14	
18 Bentazon							
1	8.183	8.184	-0.001	55296513	0.2500	0.2500	
2	8.543	8.544	-0.001	175704103	0.2500	0.2494	
						RPD = 0.23	
19 Picloram							
1	8.399	8.399	0.000	605542235	0.2500	0.2676	
2	8.877	8.877	0.000	2108705379	0.2500	0.2406	
						RPD = 10.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.503	8.504	-0.001	622833672	0.2500	0.2580	
2	8.658	8.658	0.000	2238371220	0.2500	0.2757	
						RPD = 6.64	
21 Acifluorfen							
1	9.542	9.543	-0.001	511854251	0.2500	0.2692	
2	9.678	9.677	0.001	1640697173	0.2500	0.2580	
						RPD = 4.25	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

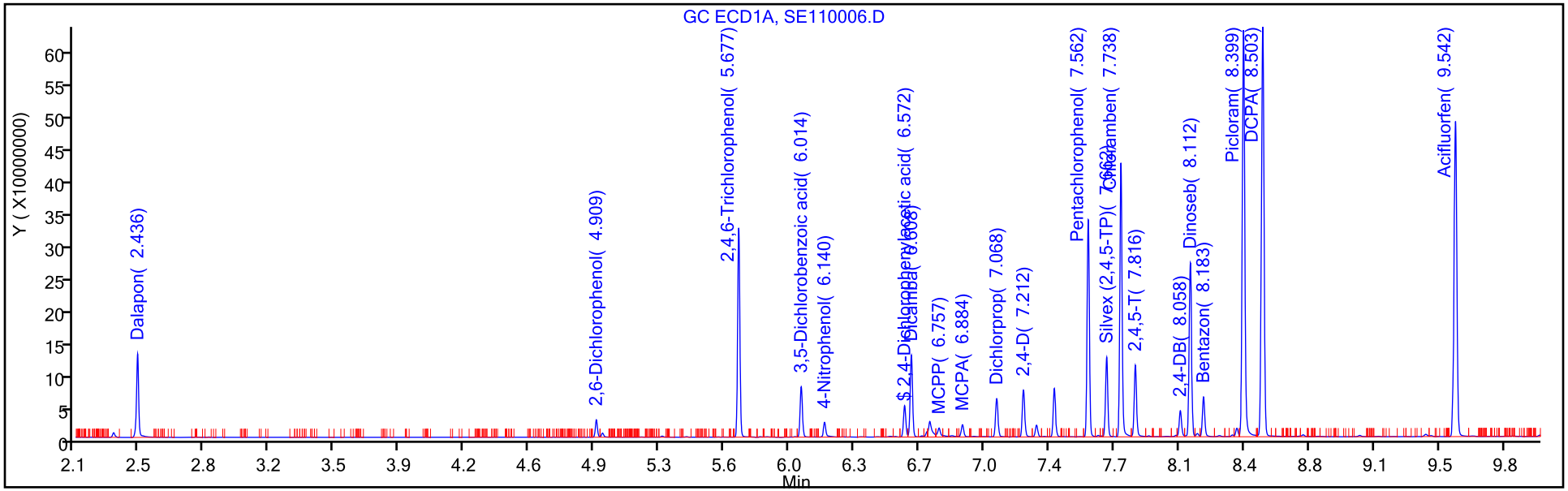
Report Date: 11-May-2018 16:22:34 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

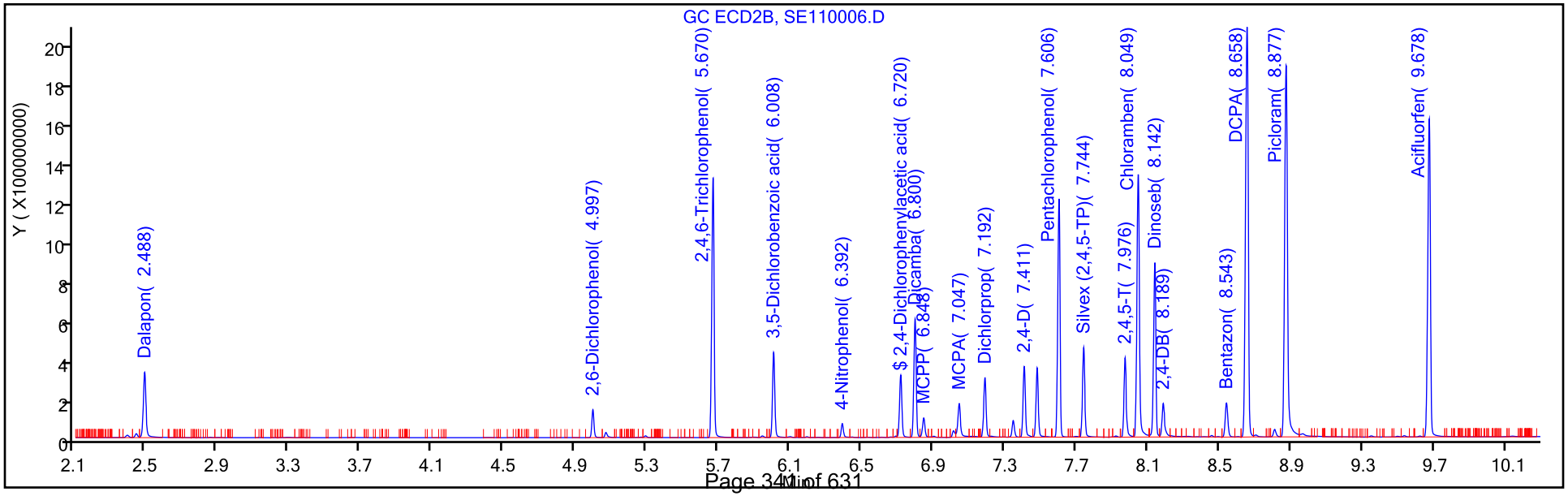
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110006.D

Injection Date:	11-May-2018 12:25:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-May-2018 12:45:20 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:40 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.437	2.434	0.003	83189035	0.1750	0.1925	
2	2.490	2.487	0.003	265579123	0.1750	0.1916	
						RPD = 0.48	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	16215566	NC	NC	
2	4.997	4.996	0.001	90391556	NC	NC	
						RPD = 1.65	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	201951399	NC	NC	
2	5.669	5.668	0.001	904140464	NC	NC	
						RPD = 3.86	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	53327970	0.1750	0.1878	
2	6.009	6.009	0.000	293024588	0.1750	0.1910	
						RPD = 1.72	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	18010823	0.1750	0.1948	
2	6.392	6.394	-0.002	48885059	0.1750	0.1914	
						RPD = 1.75	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	34059424	0.1750	0.1981	
2	6.720	6.720	0.000	224534201	0.1750	0.1966	
						RPD = 0.79	
7 Dicamba							
1	6.608	6.609	-0.001	88040365	0.0875	0.0975	
2	6.801	6.800	0.001	416741253	0.0875	0.0982	
						RPD = 0.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	11785560	17.5	19.7	
2	6.849	6.848	0.001	74790568	17.5	19.3	
						RPD = 1.99	
9 MCPA							
1	6.884	6.883	0.001	14503654	17.5	20.9	
2	7.047	7.046	0.001	141491800	17.5	19.1	
						RPD = 9.15	
10 Dichlorprop							
1	7.069	7.069	0.000	43494282	0.1750	0.1890	
2	7.192	7.191	0.001	209080697	0.1750	0.1824	
						RPD = 3.56	
11 2,4-D							
1	7.212	7.214	-0.002	52251610	0.1750	0.1913	
2	7.412	7.412	0.000	249572099	0.1750	0.1983	
						RPD = 3.57	
12 Pentachlorophenol							
1	7.562	7.562	0.000	217713159	0.0438	0.0498	
2	7.607	7.605	0.002	799764932	0.0438	0.0510	
						RPD = 2.39	
13 Silvex (2,4,5-TP)							
1	7.662	7.661	0.001	78442832	0.0438	0.0491	
2	7.744	7.744	0.000	298650918	0.0438	0.0495	
						RPD = 0.62	
14 Chloramben							
1	7.739	7.739	0.000	260489374	0.1750	0.1923	
2	8.050	8.049	0.001	932682423	0.1750	0.1971	
						RPD = 2.43	
15 2,4,5-T							
1	7.816	7.816	0.000	74079486	0.0438	0.0478	
2	7.976	7.976	0.000	258556779	0.0438	0.0504	
						RPD = 5.36	
16 2,4-DB							
1	8.059	8.059	0.000	26745929	0.1750	0.1835	
2	8.190	8.190	0.000	131785359	0.1750	0.1812	
						RPD = 1.28	
17 Dinoseb							
1	8.112	8.113	-0.001	177677725	0.1750	0.1959	
2	8.142	8.141	0.001	552864347	0.1750	0.1846	
						RPD = 5.93	
18 Bentazon							
1	8.184	8.184	0.000	40686507	0.1750	0.1839	
2	8.545	8.544	0.001	129567561	0.1750	0.1839	
						RPD = 0.01	
19 Picloram							
1	8.400	8.399	0.001	418538358	0.1750	0.1850	
2	8.878	8.877	0.001	1412087067	0.1750	0.1642	
						RPD = 11.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.503	8.504	-0.001	455199158	0.1750	0.1886	
2	8.659	8.658	0.001	1606795319	0.1750	0.1979	
						RPD = 4.84	
21 Acifluorfen							
1	9.543	9.543	0.000	347534675	0.1750	0.1900	
2	9.678	9.677	0.001	1042379023	0.1750	0.1740	
						RPD = 8.82	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

Report Date: 11-May-2018 16:22:43 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110007.D

Injection Date: 11-May-2018 12:45:20 Instrument ID: CSGS Operator ID: GEM

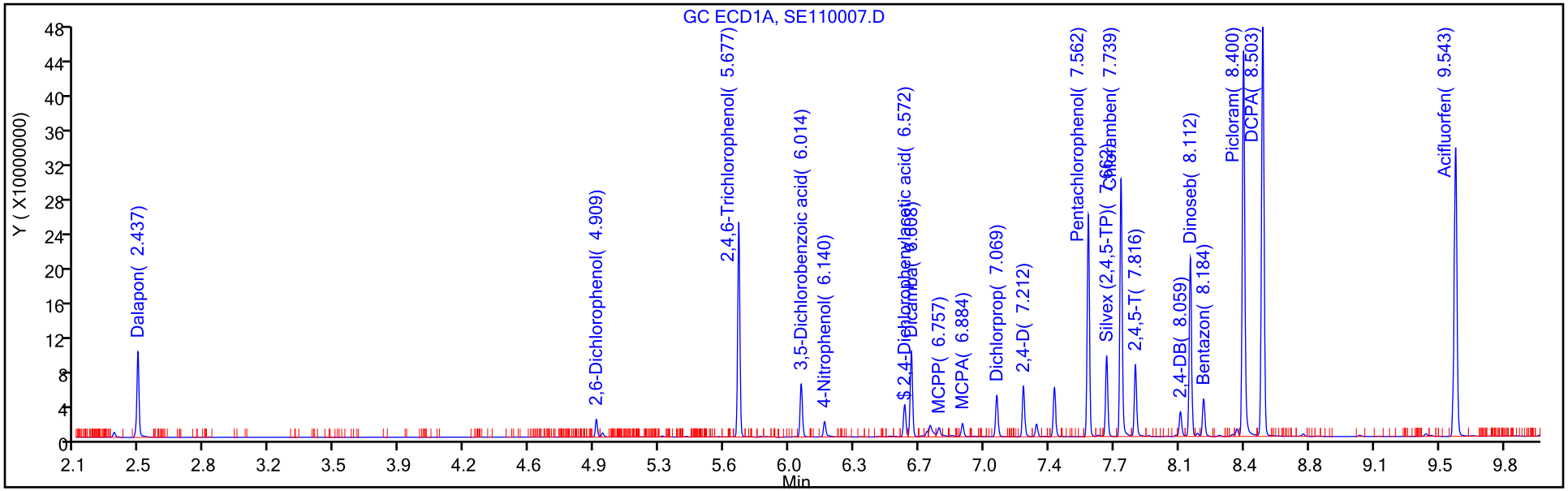
Lims ID: ic h5 Worklist Smp#: 7

Client ID:

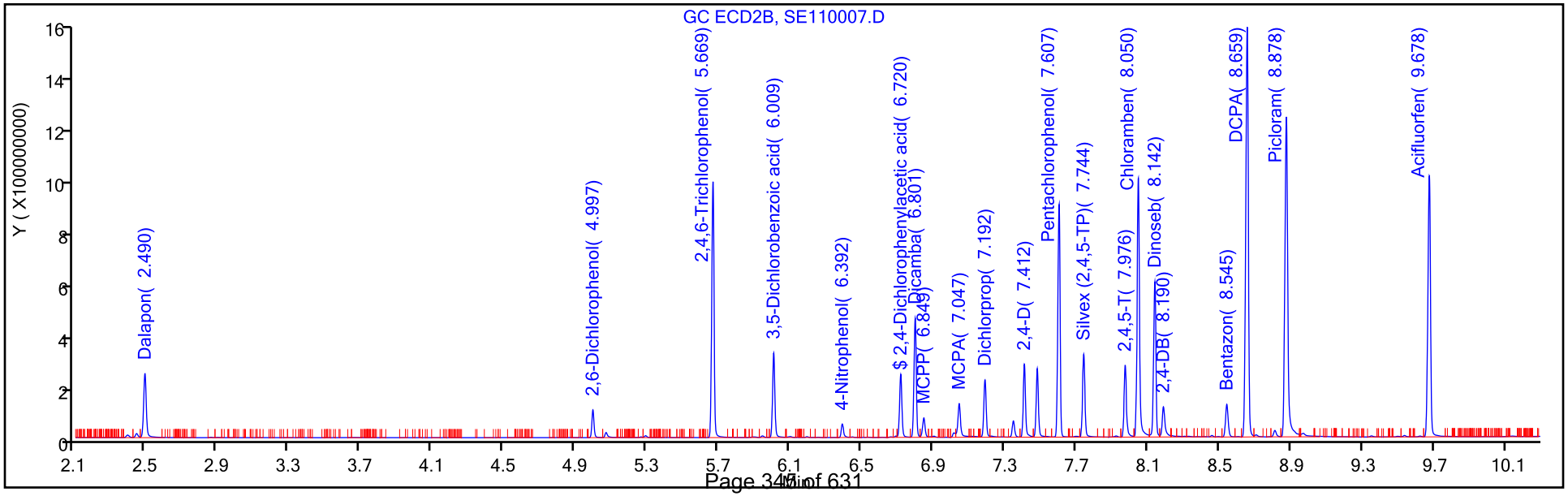
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-May-2018 13:05:09 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:50 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.434	2.434	0.000	39308326	0.1000	0.0915	
2	2.487	2.487	0.000	122554551	0.1000	0.0884	
						RPD = 3.41	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	8281104	NC	NC	
2	4.996	4.996	0.000	42242380	NC	NC	
						RPD = 8.44	
3 2,4,6-Trichlorophenol							
1	5.678	5.678	0.000	92332408	NC	NC	
2	5.668	5.668	0.000	398541878	NC	NC	
						RPD = 0.21	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	24903843	0.1000	0.0877	
2	6.009	6.009	0.000	132008139	0.1000	0.0861	
						RPD = 1.88	
5 4-Nitrophenol							
1	6.141	6.141	0.000	8515464	0.1000	0.0921	
2	6.394	6.394	0.000	22006274	0.1000	0.0862	
						RPD = 6.65	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	15674889	0.1000	0.0912	
2	6.720	6.720	0.000	101682600	0.1000	0.0890	
						RPD = 2.40	
7 Dicamba							
1	6.609	6.609	0.000	39167090	0.0500	0.0434	
2	6.800	6.800	0.000	183882413	0.0500	0.0433	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	5630043	10.0	9.42	
2	6.848	6.848	0.000	38524610	10.0	9.49	
						RPD = 0.77	
9 MCPA							
1	6.883	6.883	0.000	6946174	10.0	9.67	
2	7.046	7.046	0.000	72537648	10.0	9.37	
						RPD = 3.18	
10 Dichlorprop							
1	7.069	7.069	0.000	19831661	0.1000	0.0862	
2	7.191	7.191	0.000	95482366	0.1000	0.0833	
						RPD = 3.41	
11 2,4-D							
1	7.214	7.214	0.000	23710912	0.1000	0.0868	
2	7.412	7.412	0.000	110280549	0.1000	0.0876	
						RPD = 0.91	
12 Pentachlorophenol							
1	7.562	7.562	0.000	95118174	0.0250	0.0218	
2	7.605	7.605	0.000	348275036	0.0250	0.0222	
						RPD = 2.07	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	35295555	0.0250	0.0221	
2	7.744	7.744	0.000	129809387	0.0250	0.0215	
						RPD = 2.84	
14 Chloramben							
1	7.739	7.739	0.000	119026158	0.1000	0.0879	
2	8.049	8.049	0.000	421826031	0.1000	0.0891	
						RPD = 1.40	
15 2,4,5-T							
1	7.816	7.816	0.000	34604353	0.0250	0.0223	
2	7.976	7.976	0.000	112357736	0.0250	0.0219	
						RPD = 1.87	
16 2,4-DB							
1	8.059	8.059	0.000	13086508	0.1000	0.0898	
2	8.190	8.190	0.000	67025442	0.1000	0.0922	
						RPD = 2.59	
17 Dinoseb							
1	8.113	8.113	0.000	78083281	0.1000	0.0861	
2	8.141	8.141	0.000	218861678	0.1000	0.0814	
						RPD = 5.66	
18 Bentazon							
1	8.184	8.184	0.000	19651846	0.1000	0.0888	
2	8.544	8.544	0.000	61472612	0.1000	0.0873	
						RPD = 1.80	
19 Picloram							
1	8.399	8.399	0.000	197347462	0.1000	0.0872	
2	8.877	8.877	0.000	609692907	0.1000	0.0761	
						RPD = 13.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.504	8.504	0.000	216427825	0.1000	0.0897	
2	8.658	8.658	0.000	728552811	0.1000	0.0897	
						RPD = 0.10	
21 Acifluorfen							
1	9.543	9.543	0.000	148539275	0.1000	0.0862	
2	9.677	9.677	0.000	397160260	0.1000	0.0789	
						RPD = 8.83	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

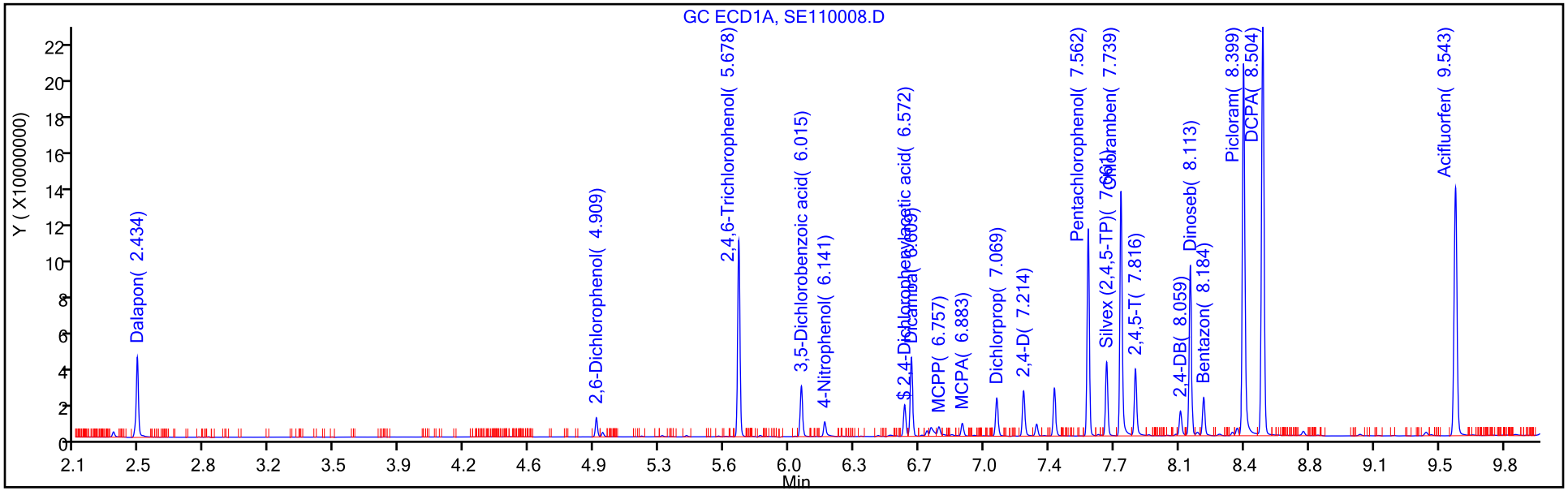
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TestAmerica Savannah

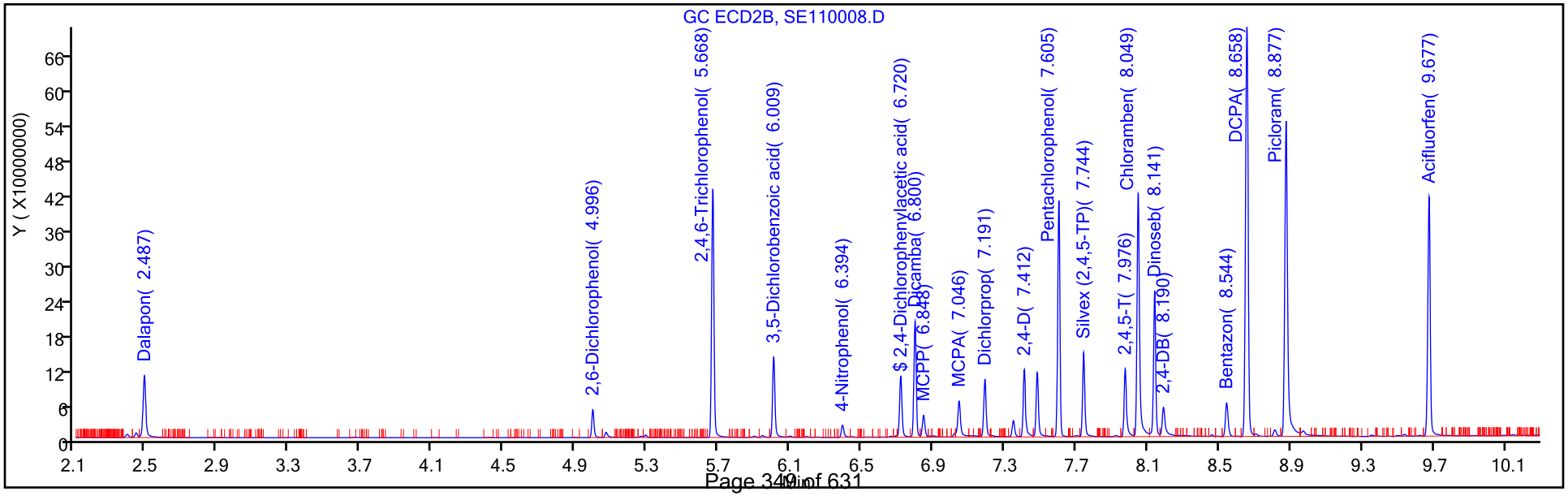
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Injection Date:	11-May-2018 13:05:09	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2018 13:24:48 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:23:04 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	20866692	0.0500	0.0490	
2	2.487	2.487	0.000	64357695	0.0500	0.0464	
						RPD = 5.43	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	4778853	NC	NC	
2	4.997	4.996	0.001	23332577	NC	NC	
						RPD = 9.56	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	47398750	NC	NC	
2	5.668	5.668	0.000	201332318	NC	NC	
						RPD = 1.40	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	13872381	0.0500	0.0488	
2	6.009	6.009	0.000	69054511	0.0500	0.0450	
						RPD = 8.16	
5 4-Nitrophenol							
1	6.141	6.141	0.000	4870807	0.0500	0.0527	
2	6.395	6.394	0.001	12366861	0.0500	0.0484	
						RPD = 8.42	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	8637049	0.0500	0.0502	
2	6.720	6.720	0.000	53622932	0.0500	0.0469	
						RPD = 6.78	
7 Dicamba							
1	6.608	6.609	-0.001	20817710	0.0250	0.0231	
2	6.800	6.800	0.000	94232129	0.0250	0.0222	
						RPD = 3.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.756	6.757	-0.001	3151900	5.00	5.27	
2	6.848	6.848	0.000	22633447	5.00	5.18	
						RPD = 1.74	
9 MCPA							
1	6.883	6.883	0.000	4041645	5.00	5.35	
2	7.046	7.046	0.000	43466245	5.00	5.27	
						RPD = 1.46	
10 Dichlorprop							
1	7.069	7.069	0.000	10981312	0.0500	0.0477	
2	7.191	7.191	0.000	50621343	0.0500	0.0442	
						RPD = 7.75	
11 2,4-D							
1	7.213	7.214	-0.001	12919675	0.0500	0.0473	
2	7.411	7.412	-0.001	56670134	0.0500	0.0450	
						RPD = 4.94	
12 Pentachlorophenol							
1	7.561	7.562	-0.001	48162705	0.0125	0.0110	
2	7.605	7.605	0.000	173538123	0.0125	0.0111	
						RPD = 0.46	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	17924076	0.0125	0.0112	
2	7.743	7.744	-0.001	63684741	0.0125	0.0105	
						RPD = 6.29	
14 Chloramben							
1	7.739	7.739	0.000	59544203	0.0500	0.0440	
2	8.049	8.049	0.000	208906785	0.0500	0.0441	
						RPD = 0.39	
15 2,4,5-T							
1	7.816	7.816	0.000	17990845	0.0125	0.0116	
2	7.976	7.976	0.000	55311764	0.0125	0.0108	
						RPD = 7.32	
16 2,4-DB							
1	8.059	8.059	0.000	6772708	0.0500	0.0465	
2	8.191	8.190	0.001	35061794	0.0500	0.0482	
						RPD = 3.67	
17 Dinoseb							
1	8.112	8.113	-0.001	40031061	0.0500	0.0441	
2	8.141	8.141	0.000	105727247	0.0500	0.0458	
						RPD = 3.62	
18 Bentazon							
1	8.184	8.184	0.000	10191475	0.0500	0.0461	
2	8.544	8.544	0.000	31859951	0.0500	0.0452	
						RPD = 1.86	
19 Picloram							
1	8.399	8.399	0.000	97726866	0.0500	0.0432	
2	8.876	8.877	-0.001	287961730	0.0500	0.0408	
						RPD = 5.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.502	8.504	-0.002	108476970	0.0500	0.0449	
2	8.657	8.658	-0.001	363162816	0.0500	0.0447	
						RPD = 0.45	
21 Acifluorfen							
1	9.541	9.543	-0.002	75169574	0.0500	0.0452	
2	9.676	9.677	-0.001	182510548	0.0500	0.0461	
						RPD = 1.97	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

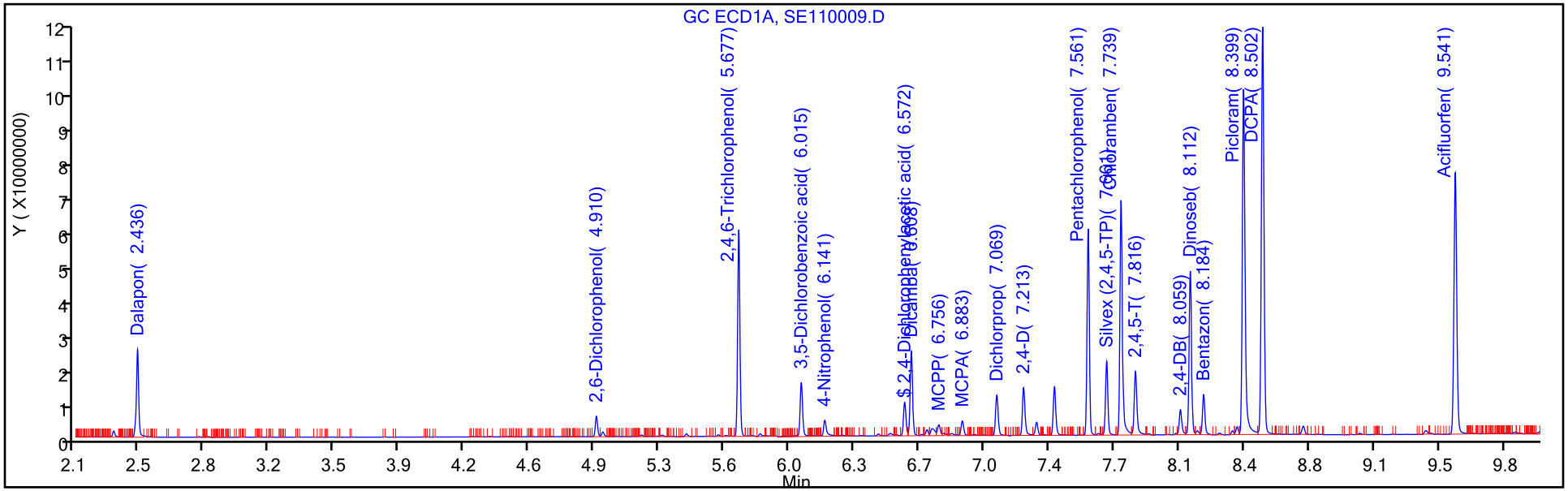
Report Date: 11-May-2018 16:23:09 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

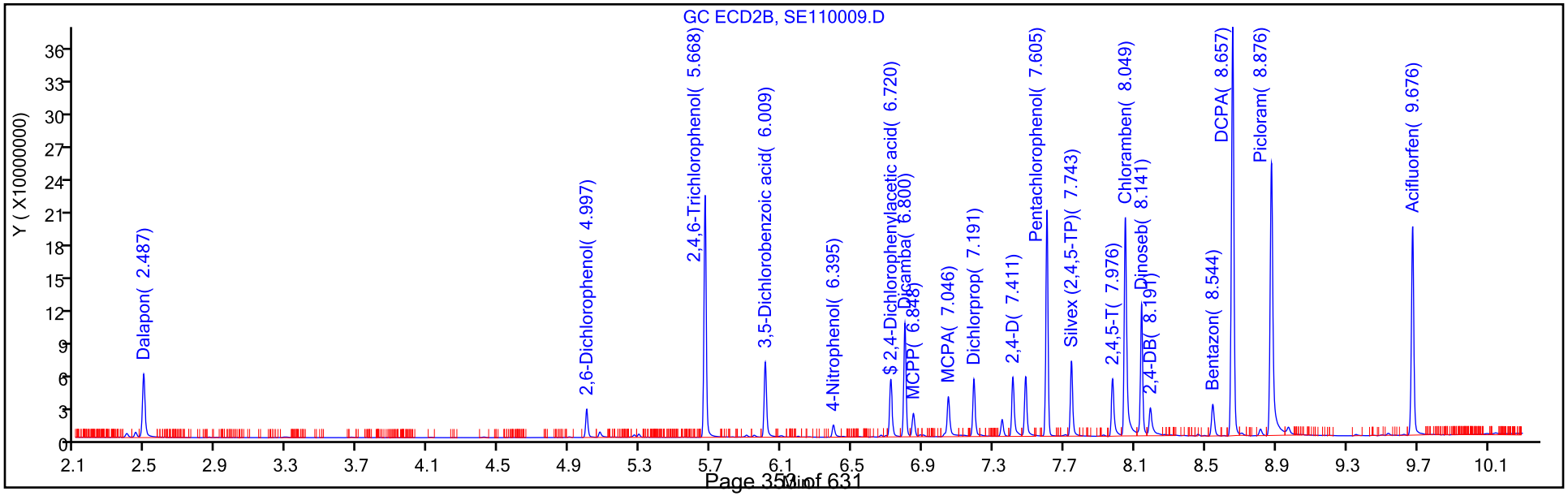
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110009.D

Injection Date:	11-May-2018 13:24:48	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2018 13:44:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:23:19 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.435	2.434	0.001	10636667	0.0250	0.0255	
2	2.486	2.487	-0.001	32076139	0.0250	0.0231	
						RPD = 9.57	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	2350207	NC	NC	
2	4.997	4.996	0.001	11844418	NC	NC	
						RPD = 3.12	
3 2,4,6-Trichlorophenol							
1	5.678	5.678	0.000	21271269	NC	NC	
2	5.669	5.668	0.001	90591973	NC	NC	
						RPD = 1.13	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	6486938	0.0250	0.0228	
2	6.010	6.009	0.001	32970058	0.0250	0.0215	
						RPD = 6.08	
5 4-Nitrophenol							
1	6.144	6.141	0.003	2039867	0.0250	0.0221	
2	6.396	6.394	0.002	5603900	0.0250	0.0219	
						RPD = 0.54	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.573	6.572	0.001	4102855	0.0250	0.0239	
2	6.721	6.720	0.001	24918814	0.0250	0.0218	
						RPD = 8.98	
7 Dicamba							
1	6.609	6.609	0.000	9645690	0.0125	0.0107	
2	6.800	6.800	0.000	43185212	0.0125	0.0102	
						RPD = 4.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	1331377	2.50	2.23	
2	6.849	6.848	0.001	11960487	2.50	2.29	
						RPD = 2.66	
9 MCPA							
1	6.884	6.883	0.001	1929514	2.50	2.21	
2	7.048	7.046	0.002	22165214	2.50	2.27	
						RPD = 2.83	
10 Dichlorprop							
1	7.070	7.069	0.001	5256013	0.0250	0.0228	
2	7.192	7.191	0.001	25683211	0.0250	0.0224	
						RPD = 1.93	
11 2,4-D							
1	7.215	7.214	0.001	6252962	0.0250	0.0229	
2	7.413	7.412	0.001	26250068	0.0250	0.0209	
						RPD = 9.33	
12 Pentachlorophenol							
1	7.562	7.562	0.000	21666620	0.006250	0.004956	
2	7.605	7.605	0.000	76363785	0.006250	0.004871	
						RPD = 1.75	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	8165417	0.006250	0.005116	
2	7.745	7.744	0.001	29112863	0.006250	0.004821	
						RPD = 5.94	
14 Chloramben							
1	7.740	7.739	0.001	26686021	0.0250	0.0197	
2	8.050	8.049	0.001	93206115	0.0250	0.0197	
						RPD = 0.05	
15 2,4,5-T							
1	7.818	7.816	0.002	8450464	0.006250	0.005448	
2	7.977	7.976	0.001	25357515	0.006250	0.004942	
						RPD = 9.74	
16 2,4-DB							
1	8.060	8.059	0.001	3235647	0.0250	0.0222	
2	8.192	8.190	0.002	16541201	0.0250	0.0227	
						RPD = 2.41	
17 Dinoseb							
1	8.113	8.113	0.000	17944898	0.0250	0.0198	
2	8.141	8.141	0.000	44543235	0.0250	0.0264	
						RPD = 28.58	
18 Bentazon							
1	8.185	8.184	0.001	4925430	0.0250	0.0223	
2	8.545	8.544	0.001	15434944	0.0250	0.0219	
						RPD = 1.62	
19 Picloram							
1	8.401	8.399	0.002	42654843	0.0250	0.0189	
2	8.877	8.877	0.000	118110292	0.0250	0.0222	
						RPD = 16.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.503	8.504	-0.001	49421367	0.0250	0.0205	
2	8.657	8.658	-0.001	161482853	0.0250	0.0199	
						RPD = 2.88	
21 Acifluorfen							
1	9.543	9.543	0.000	31521813	0.0250	0.0200	
2	9.677	9.677	0.000	70468139	0.0250	0.0287	
						RPD = 35.77	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

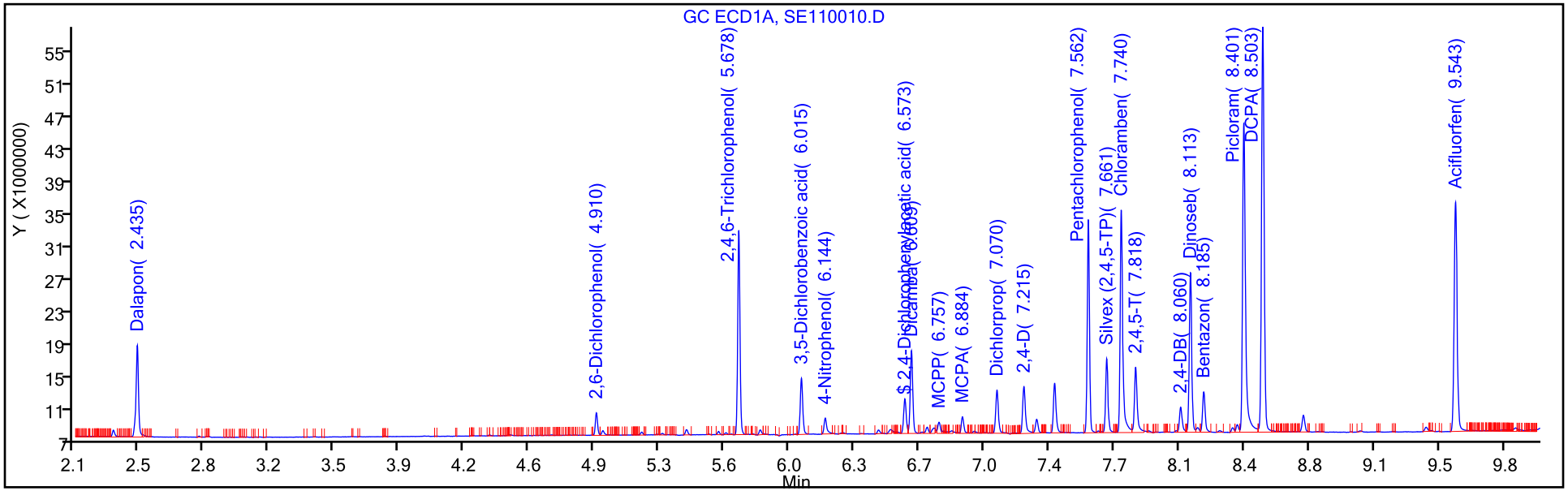
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TestAmerica Savannah

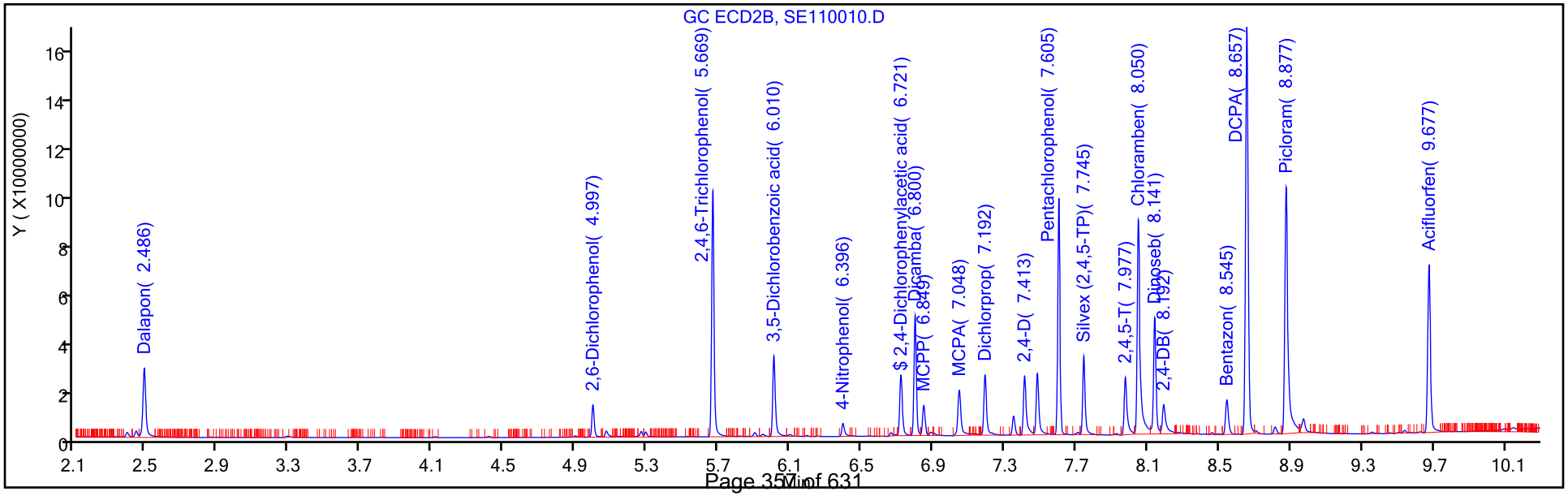
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Injection Date:	11-May-2018 13:44:30	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2018 14:04:11 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:08 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 11-May-2018 16:20:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.439	2.434	0.005	6581903	0.0100	0.0161	
2	2.491	2.487	0.004	18041326	0.0100	0.0130	
						RPD = 21.37	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	1371251	NC	NC	
2	4.997	4.996	0.001	6784740	NC	NC	
						RPD = 17.58	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	11180842	NC	NC	
2	5.667	5.668	-0.001	47838983	NC	NC	
						RPD = 0.67	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	3593919	0.0100	0.0127	
2	6.010	6.009	0.001	18292581	0.0100	0.0119	
						RPD = 5.93	
5 4-Nitrophenol							
1	6.144	6.141	0.003	1166828	0.0100	0.0126	
2	6.397	6.394	0.003	3194768	0.0100	0.0125	
						RPD = 0.88	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	2379510	0.0100	0.0138	
2	6.722	6.720	0.002	14177101	0.0100	0.0124	
						RPD = 10.89	
7 Dicamba							
1	6.608	6.609	-0.001	5341278	0.005000	0.005917	
2	6.800	6.800	0.000	23704598	0.005000	0.005585	
						RPD = 5.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	593694	1.00	0.99	
2	6.849	6.848	0.001	7413369	1.00	1.05	
						RPD = 5.94	
9 MCPA							
1	6.883	6.883	0.000	1032647	1.00	0.8775	
2	7.048	7.046	0.002	13307227	1.00	1.03	
						RPD = 15.72	
10 Dichlorprop							
1	7.070	7.069	0.001	2994953	0.0100	0.0130	
2	7.192	7.191	0.001	16334415	0.0100	0.0142	
						RPD = 9.06	
11 2,4-D							
1	7.215	7.214	0.001	3282293	0.0100	0.0120	
2	7.413	7.412	0.001	14413840	0.0100	0.0114	
						RPD = 4.83	
12 Pentachlorophenol							
1	7.562	7.562	0.000	11166313	0.002500	0.002554	
2	7.605	7.605	0.000	39948581	0.002500	0.002548	
						RPD = 0.25	
13 Silvex (2,4,5-TP)							
1	7.662	7.661	0.001	4257146	0.002500	0.002667	
2	7.744	7.744	0.000	15326717	0.002500	0.002538	
						RPD = 4.97	
14 Chloramben							
1	7.740	7.739	0.001	13202807	0.0100	0.009748	
2	8.050	8.049	0.001	46864588	0.0100	0.0099	
						RPD = 1.56	
15 2,4,5-T							
1	7.817	7.816	0.001	4350302	0.002500	0.002805	
2	7.977	7.976	0.001	13726331	0.002500	0.002675	
						RPD = 4.73	
16 2,4-DB							
1	8.061	8.059	0.002	1732409	0.0100	0.0119	
2	8.192	8.190	0.002	7931034	0.0100	0.0109	
						RPD = 8.62	
17 Dinoseb							
1	8.112	8.113	-0.001	9609463	0.0100	0.0106	
2	8.141	8.141	0.000	23285232	0.0100	0.0196	
						RPD = 59.77	
18 Bentazon							
1	8.185	8.184	0.001	2811902	0.0100	0.0127	
2	8.544	8.544	0.000	8350330	0.0100	0.0119	
						RPD = 6.99	
19 Picloram							
1	8.401	8.399	0.002	21523000	0.0100	0.009513	
2	8.877	8.877	0.000	60007266	0.0100	0.0158	
						RPD = 49.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.502	8.504	-0.002	25166958	0.0100	0.0104	
2	8.657	8.658	-0.001	81828951	0.0100	0.0101	
						RPD = 3.37	
21 Acifluorfen							
1	9.541	9.543	-0.002	16684062	0.0100	0.0113	
2	9.677	9.677	0.000	36263377	0.0100	0.0234	
						RPD = 69.68	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

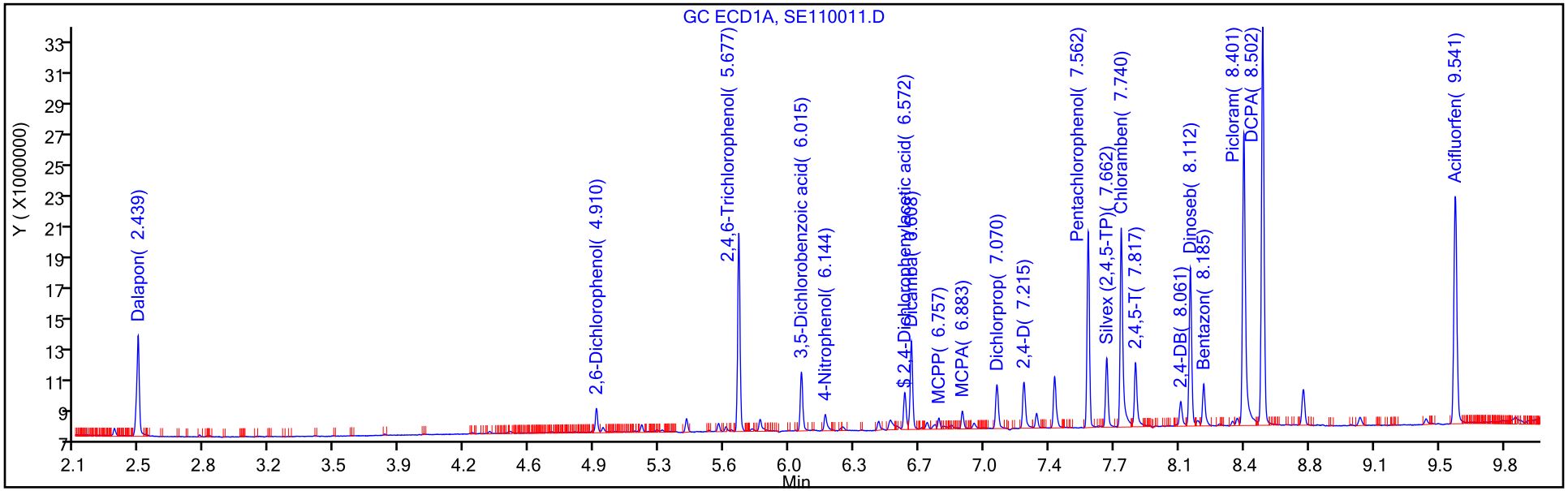
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TestAmerica Savannah

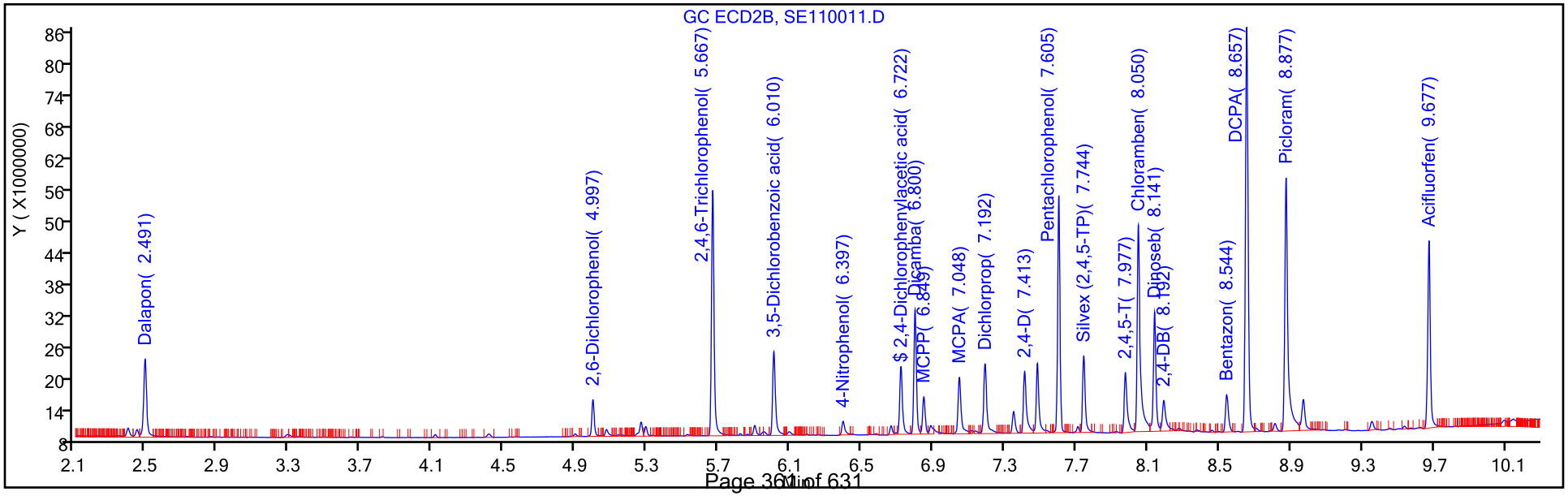
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Injection Date:	11-May-2018 14:04:11	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Calibration / Dalapon

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

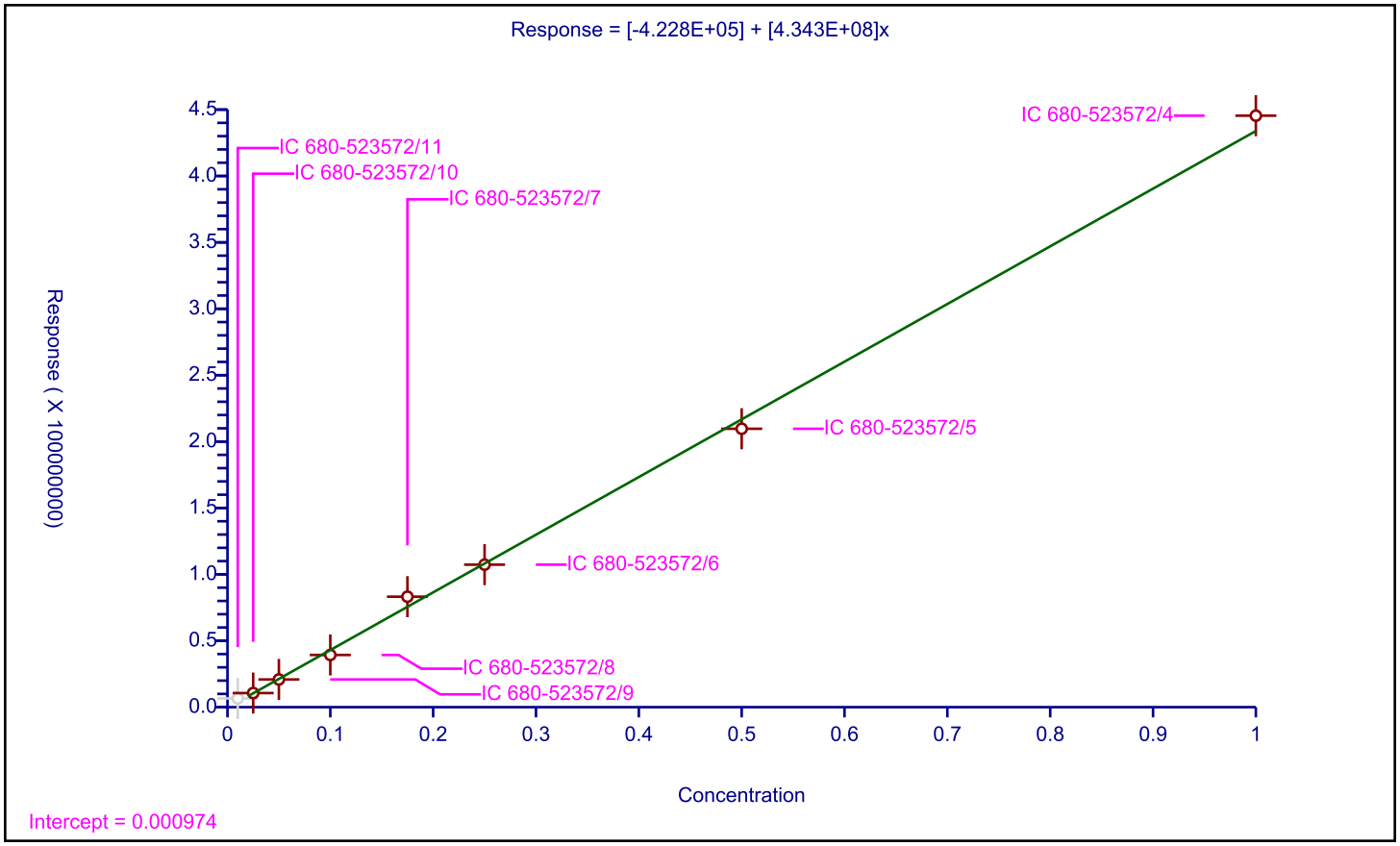
Curve Coefficients

Intercept:	-4.228E+05
Slope:	4.343E+08

Error Coefficients

Standard Error:	7150000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	6581903.0			658190300.0	N
2	IC 680-523572/10	0.025	10636667.0			425466680.0	Y
3	IC 680-523572/9	0.05	20866692.0			417333840.0	Y
4	IC 680-523572/8	0.1	39308326.0			393083260.0	Y
5	IC 680-523572/7	0.175	83189035.0			475365914.285714	Y
6	IC 680-523572/6	0.25	107312017.0			429248068.0	Y
7	IC 680-523572/5	0.5	209658233.0			419316466.0	Y
8	IC 680-523572/4	1.0	445432487.0			445432487.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

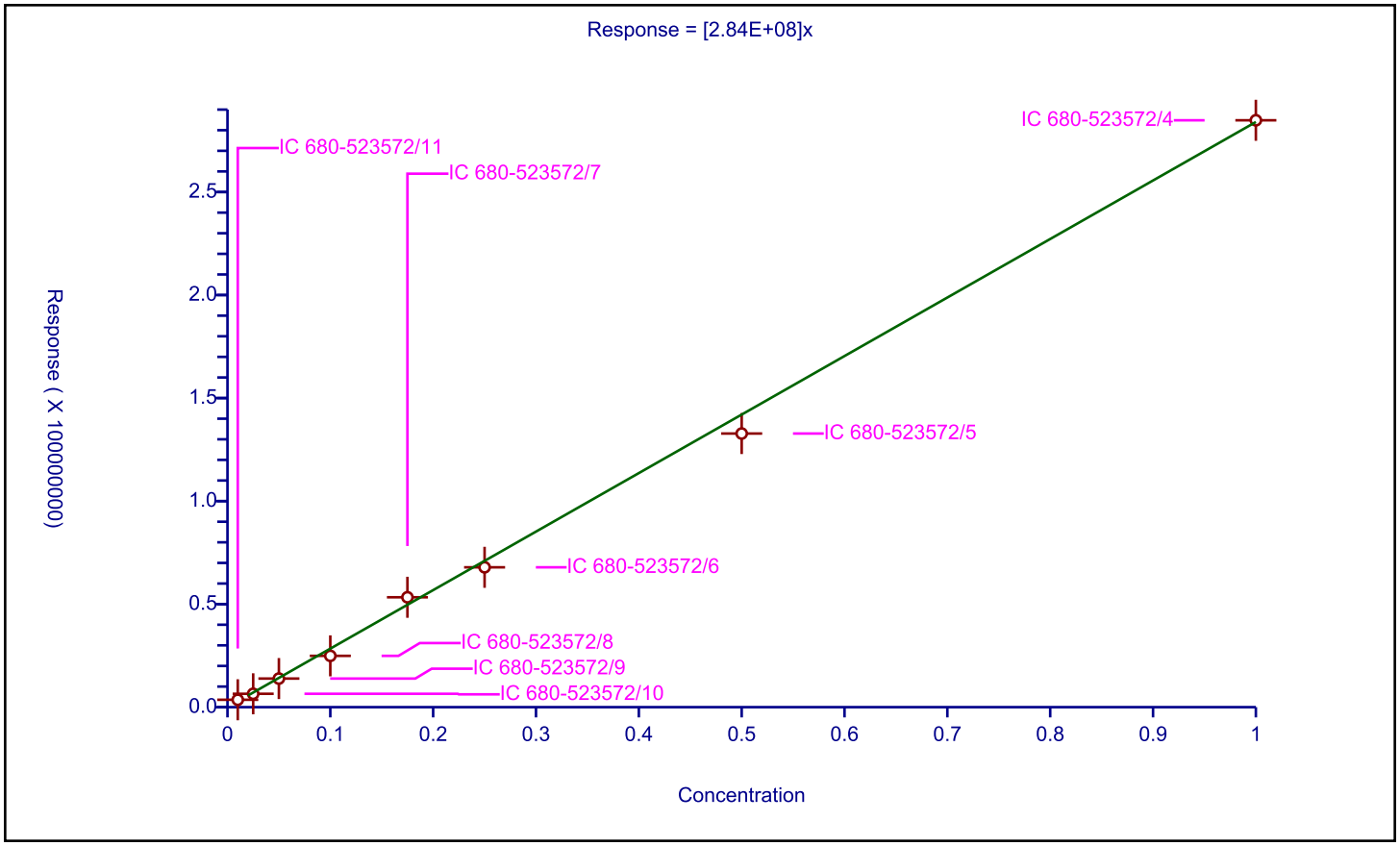
Curve Coefficients

Intercept:	0
Slope:	2.84E+08

Error Coefficients

Standard Error:	4170000
Relative Standard Error:	12.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	3593919.0			359391900.0	Y
2	IC 680-523572/10	0.025	6486938.0			259477520.0	Y
3	IC 680-523572/9	0.05	13872381.0			277447620.0	Y
4	IC 680-523572/8	0.1	24903843.0			249038430.0	Y
5	IC 680-523572/7	0.175	53327970.0			304731257.142857	Y
6	IC 680-523572/6	0.25	67878078.0			271512312.0	Y
7	IC 680-523572/5	0.5	132790199.0			265580398.0	Y
8	IC 680-523572/4	1.0	284813773.0			284813773.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

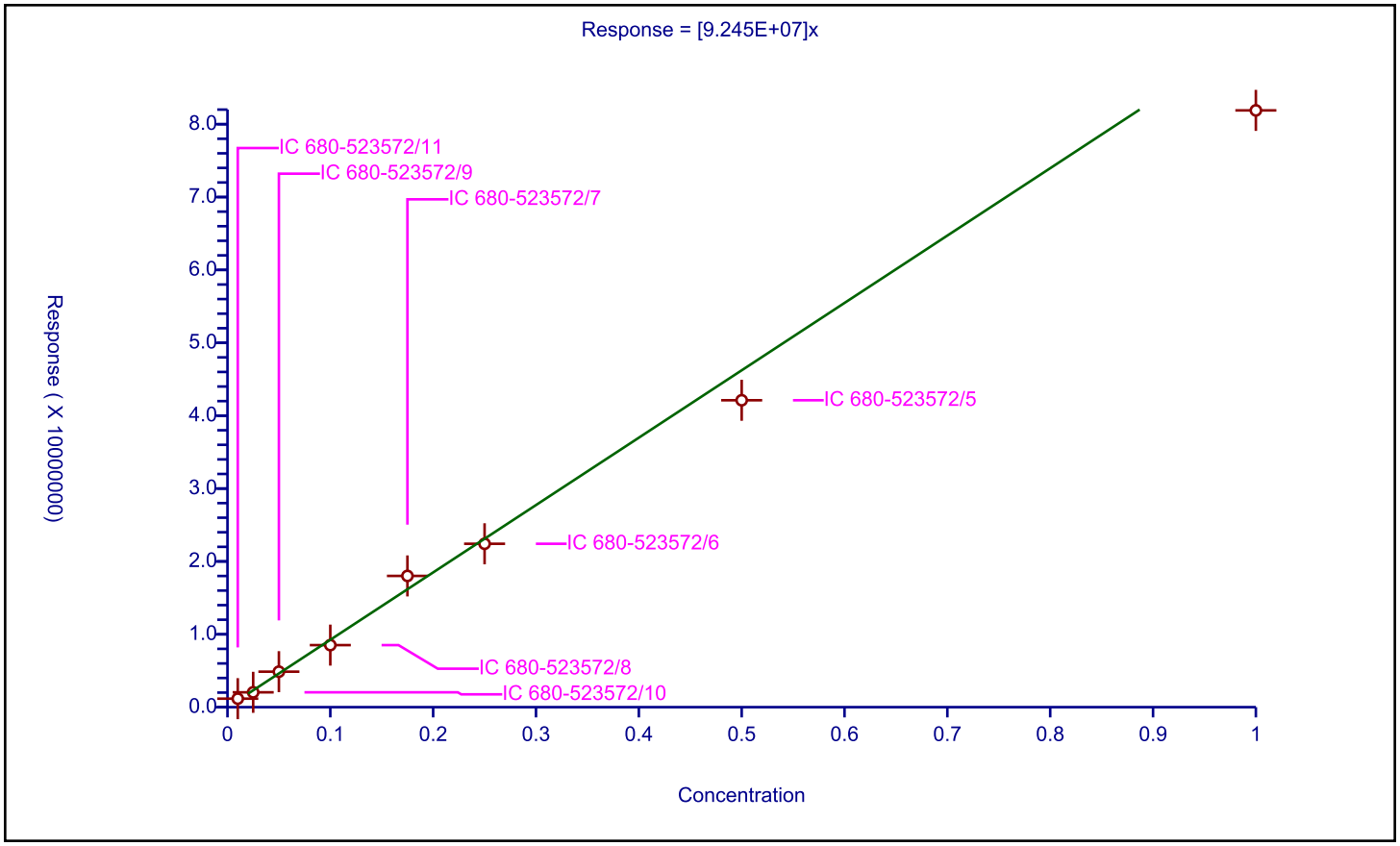
Curve Coefficients

Intercept:	0
Slope:	9.245E+07

Error Coefficients

Standard Error:	4360000
Relative Standard Error:	13.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	1166828.0			116682800.0	Y
2	IC 680-523572/10	0.025	2039867.0			81594680.0	Y
3	IC 680-523572/9	0.05	4870807.0			97416140.0	Y
4	IC 680-523572/8	0.1	8515464.0			85154640.0	Y
5	IC 680-523572/7	0.175	18010823.0			102918988.571429	Y
6	IC 680-523572/6	0.25	22420839.0			89683356.0	Y
7	IC 680-523572/5	0.5	42115762.0			84231524.0	Y
8	IC 680-523572/4	1.0	81893704.0			81893704.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

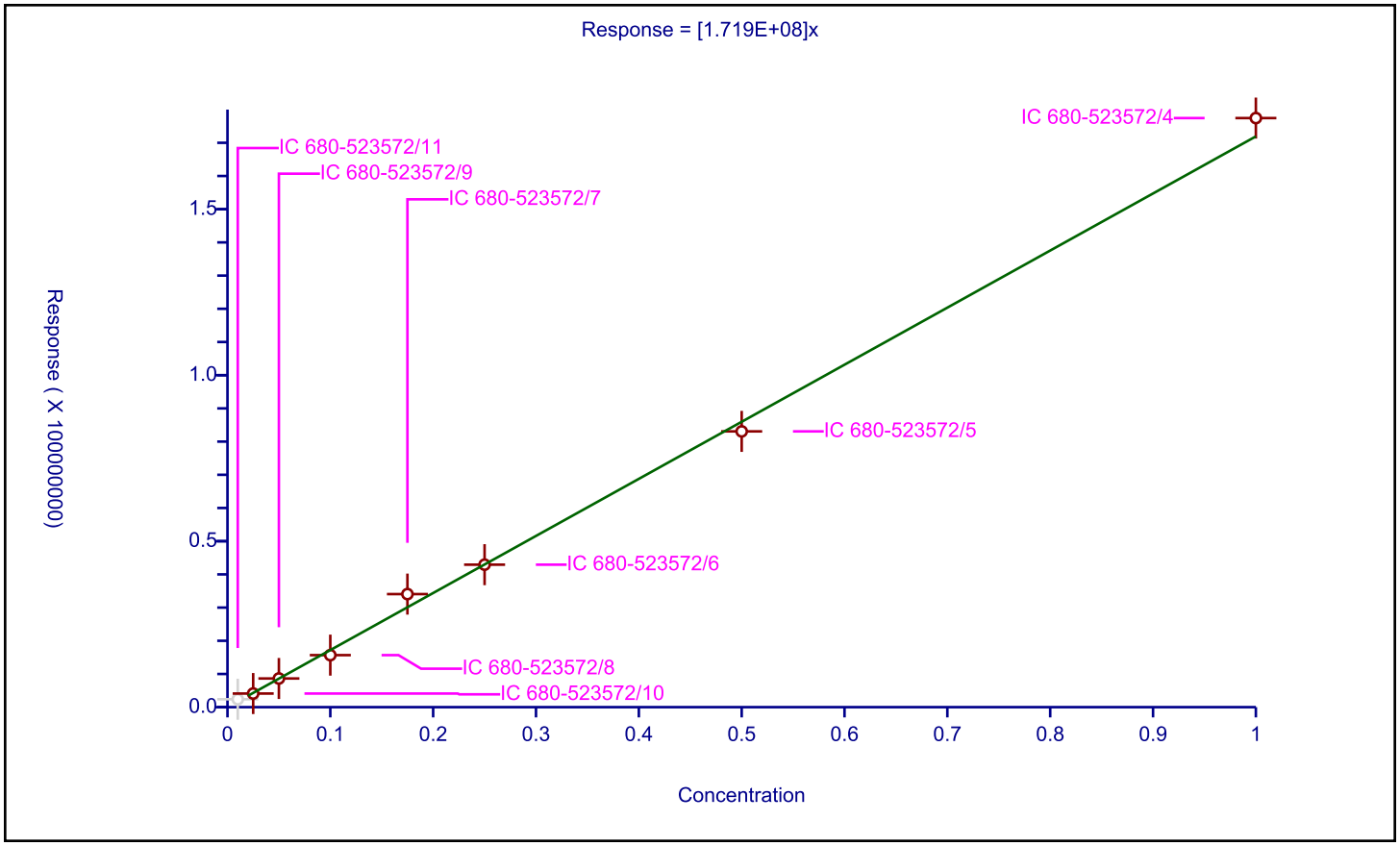
Curve Coefficients

Intercept:	0
Slope:	1.719E+08

Error Coefficients

Standard Error:	3080000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	2379510.0			237951000.0	N
2	IC 680-523572/10	0.025	4102855.0			164114200.0	Y
3	IC 680-523572/9	0.05	8637049.0			172740980.0	Y
4	IC 680-523572/8	0.1	15674889.0			156748890.0	Y
5	IC 680-523572/7	0.175	34059424.0			194625280.0	Y
6	IC 680-523572/6	0.25	42921117.0			171684468.0	Y
7	IC 680-523572/5	0.5	83069272.0			166138544.0	Y
8	IC 680-523572/4	1.0	177446511.0			177446511.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

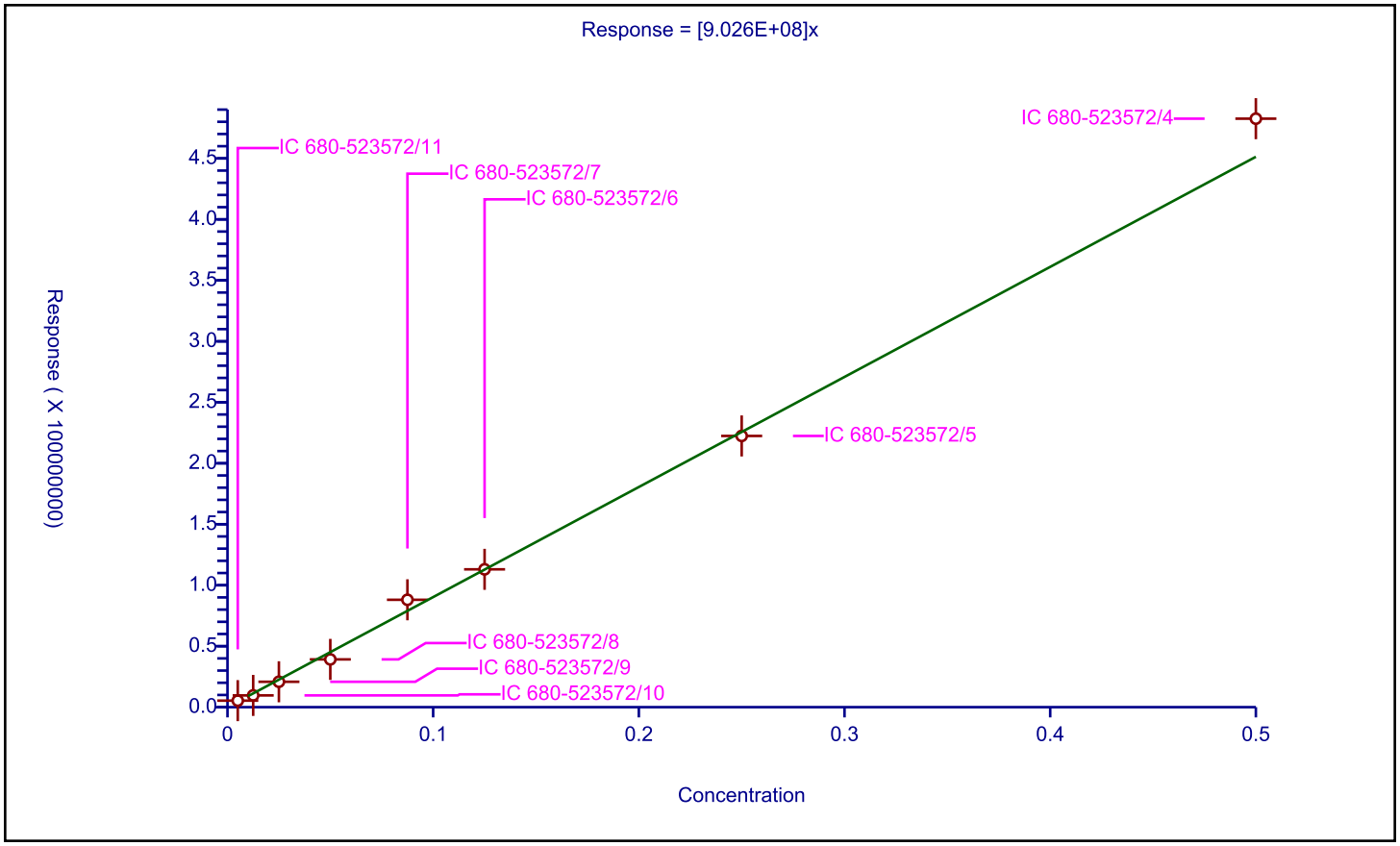
Curve Coefficients

Intercept:	0
Slope:	9.026E+08

Error Coefficients

Standard Error:	12600000
Relative Standard Error:	11.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.005	5341278.0			1068255600.0	Y
2	IC 680-523572/10	0.0125	9645690.0			771655200.0	Y
3	IC 680-523572/9	0.025	20817710.0			832708400.0	Y
4	IC 680-523572/8	0.05	39167090.0			783341800.0	Y
5	IC 680-523572/7	0.0875	88040365.0			1006175600.0	Y
6	IC 680-523572/6	0.125	113017289.0			904138312.0	Y
7	IC 680-523572/5	0.25	222402654.0			889610616.0	Y
8	IC 680-523572/4	0.5	482569817.0			965139634.0	Y



Calibration / MCPP

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

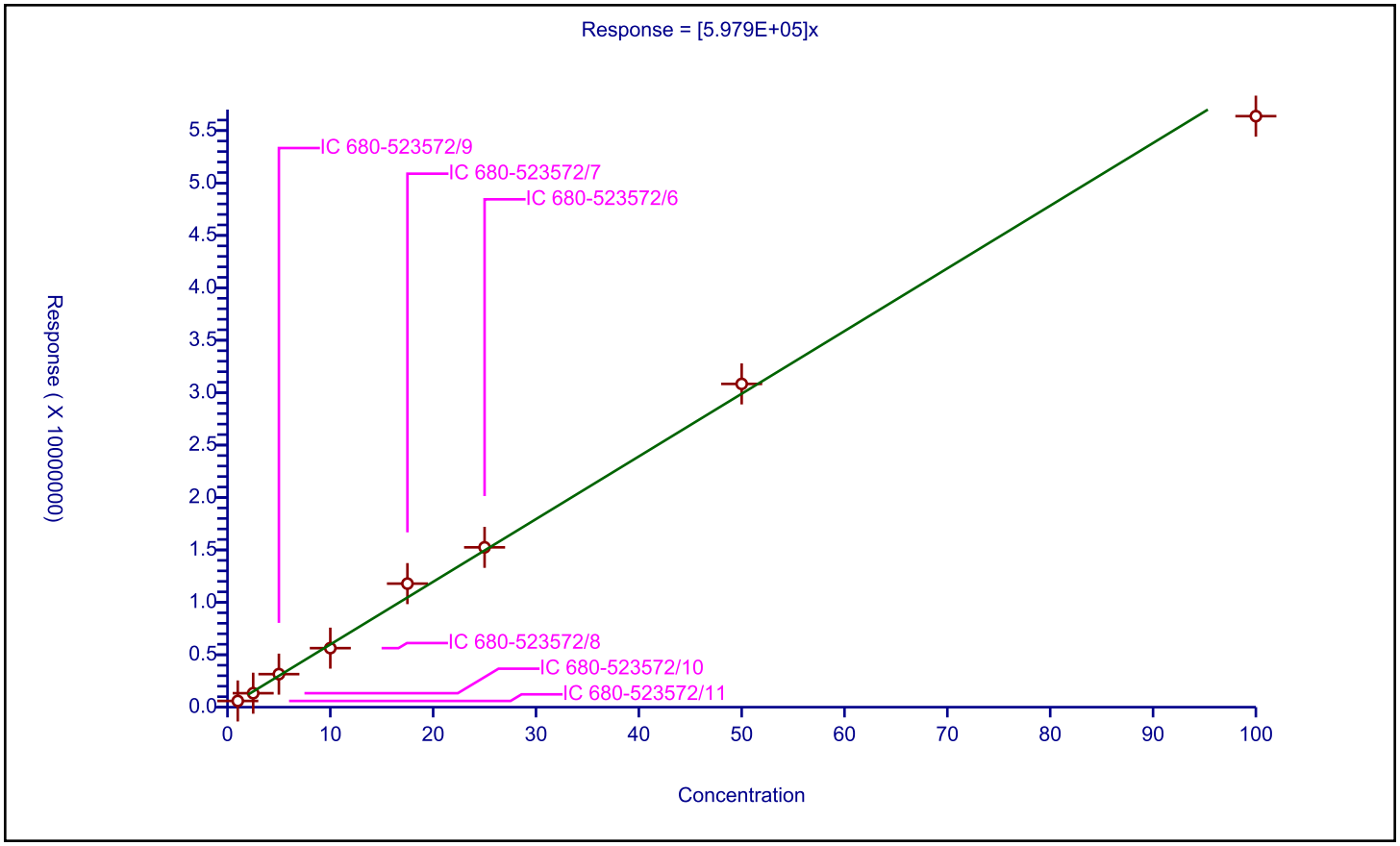
Curve Coefficients

Intercept:	0
Slope:	5.979E+05

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	7.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	1.0	593694.0			593694.0	Y
2	IC 680-523572/10	2.5	1331377.0			532550.8	Y
3	IC 680-523572/9	5.0	3151900.0			630380.0	Y
4	IC 680-523572/8	10.0	5630043.0			563004.3	Y
5	IC 680-523572/7	17.5	11785560.0			673460.571429	Y
6	IC 680-523572/6	25.0	15246200.0			609848.0	Y
7	IC 680-523572/5	50.0	30834503.0			616690.06	Y
8	IC 680-523572/4	100.0	56375223.0			563752.23	Y



Calibration / MCPA

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

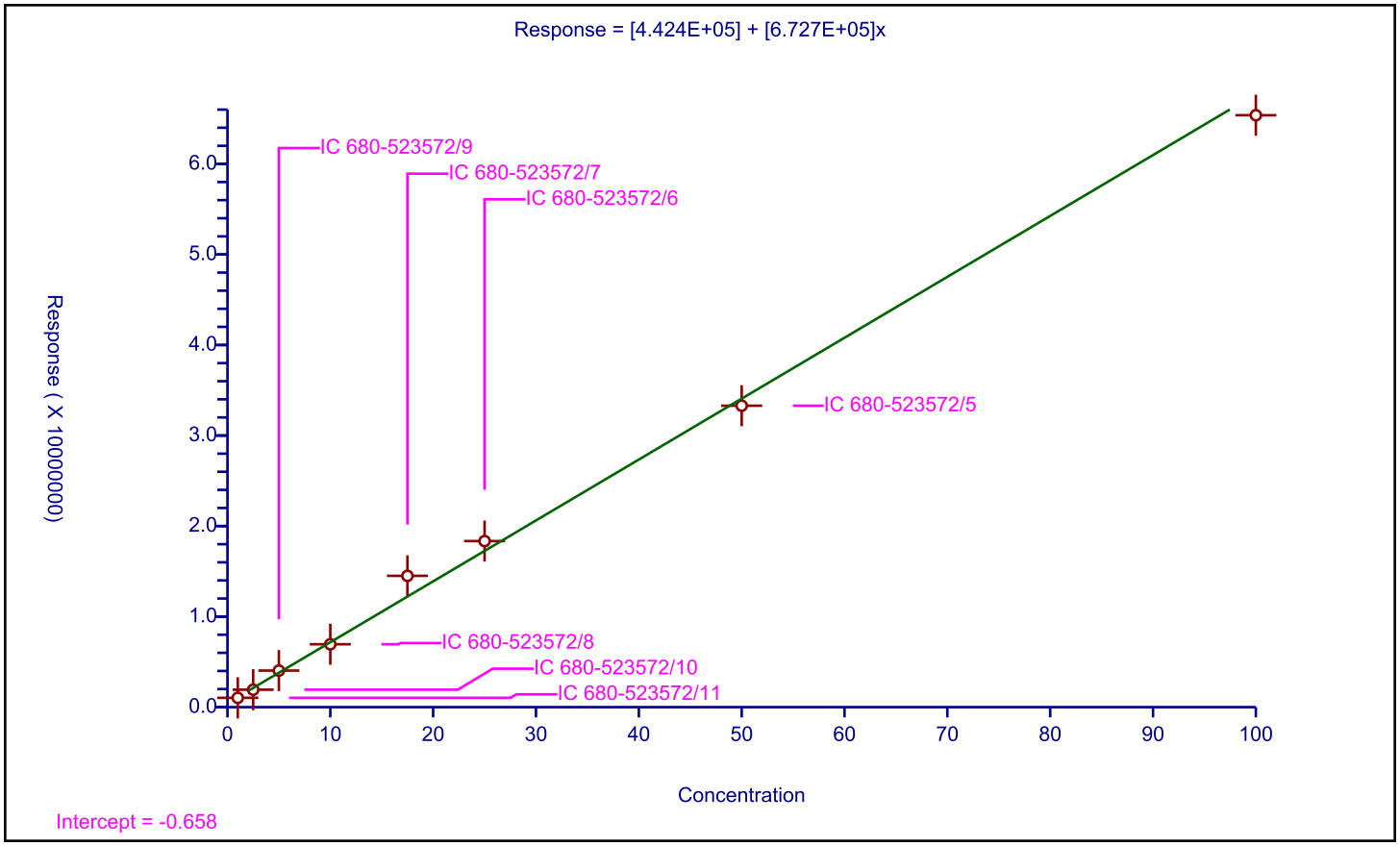
Curve Coefficients

Intercept:	4.424E+05
Slope:	6.727E+05

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	11.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	1.0	1032647.0			1032647.0	Y
2	IC 680-523572/10	2.5	1929514.0			771805.6	Y
3	IC 680-523572/9	5.0	4041645.0			808329.0	Y
4	IC 680-523572/8	10.0	6946174.0			694617.4	Y
5	IC 680-523572/7	17.5	14503654.0			828780.228571	Y
6	IC 680-523572/6	25.0	18344524.0			733780.96	Y
7	IC 680-523572/5	50.0	33294860.0			665897.2	Y
8	IC 680-523572/4	100.0	65377356.0			653773.56	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

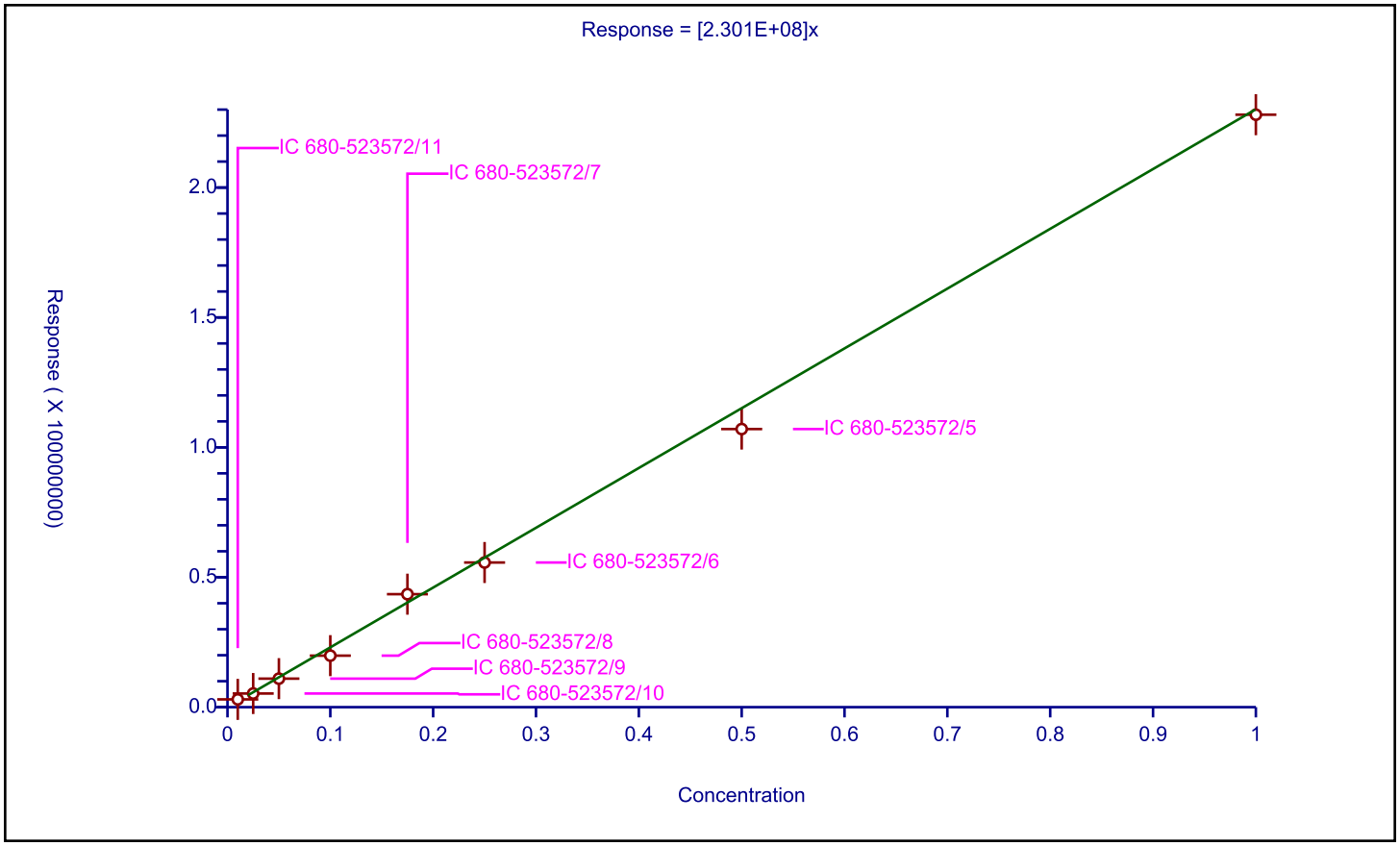
Curve Coefficients

Intercept:	0
Slope:	2.301E+08

Error Coefficients

Standard Error:	3660000
Relative Standard Error:	13.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	2994953.0			299495300.0	Y
2	IC 680-523572/10	0.025	5256013.0			210240520.0	Y
3	IC 680-523572/9	0.05	10981312.0			219626240.0	Y
4	IC 680-523572/8	0.1	19831661.0			198316610.0	Y
5	IC 680-523572/7	0.175	43494282.0			248538754.285714	Y
6	IC 680-523572/6	0.25	55680580.0			222722320.0	Y
7	IC 680-523572/5	0.5	107043659.0			214087318.0	Y
8	IC 680-523572/4	1.0	228040422.0			228040422.0	Y



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

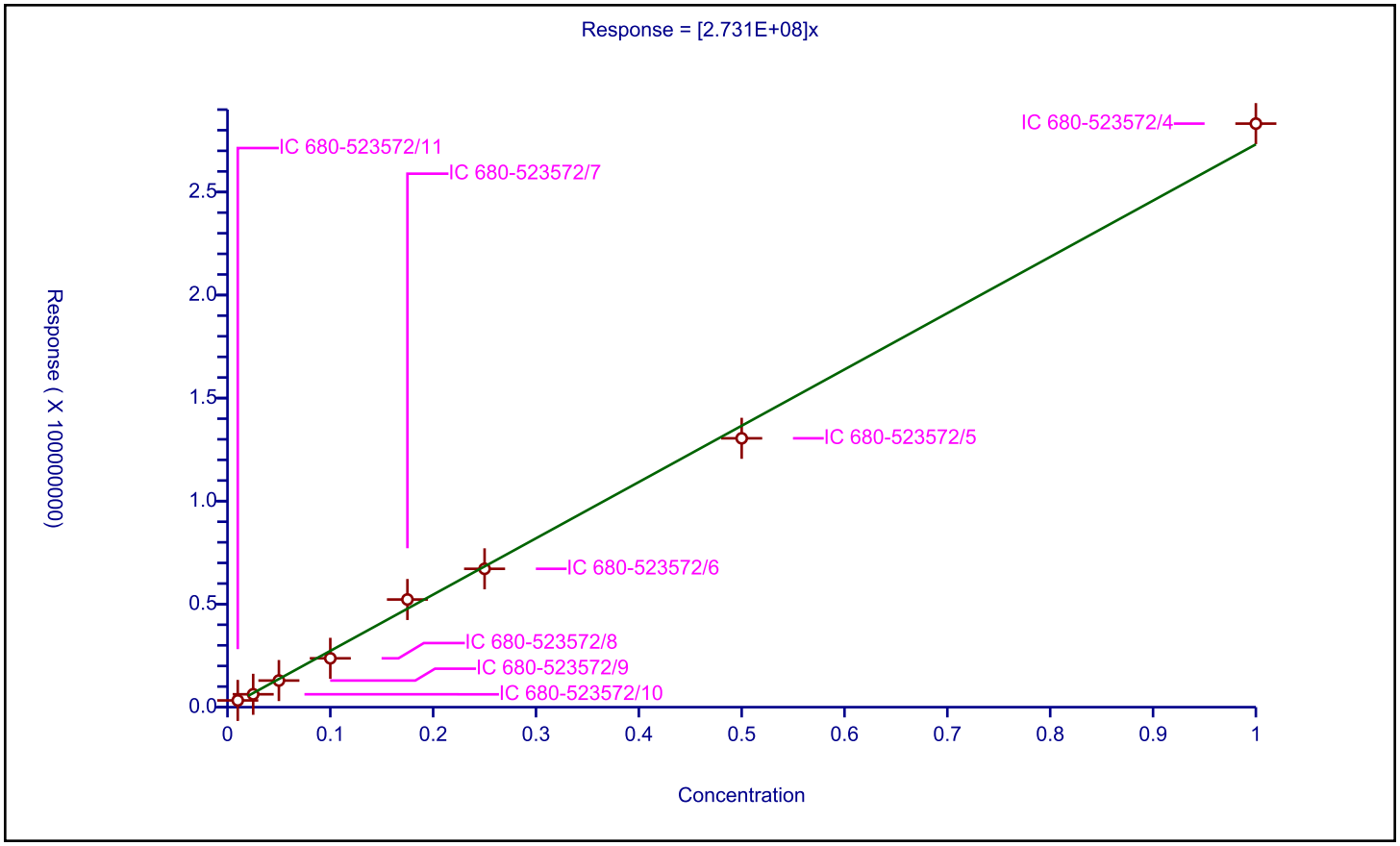
Curve Coefficients

Intercept:	0
Slope:	2.731E+08

Error Coefficients

Standard Error:	4980000
Relative Standard Error:	10.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	3282293.0			328229300.0	Y
2	IC 680-523572/10	0.025	6252962.0			250118480.0	Y
3	IC 680-523572/9	0.05	12919675.0			258393500.0	Y
4	IC 680-523572/8	0.1	23710912.0			237109120.0	Y
5	IC 680-523572/7	0.175	52251610.0			298580628.571429	Y
6	IC 680-523572/6	0.25	67145343.0			268581372.0	Y
7	IC 680-523572/5	0.5	130478087.0			260956174.0	Y
8	IC 680-523572/4	1.0	283206384.0			283206384.0	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

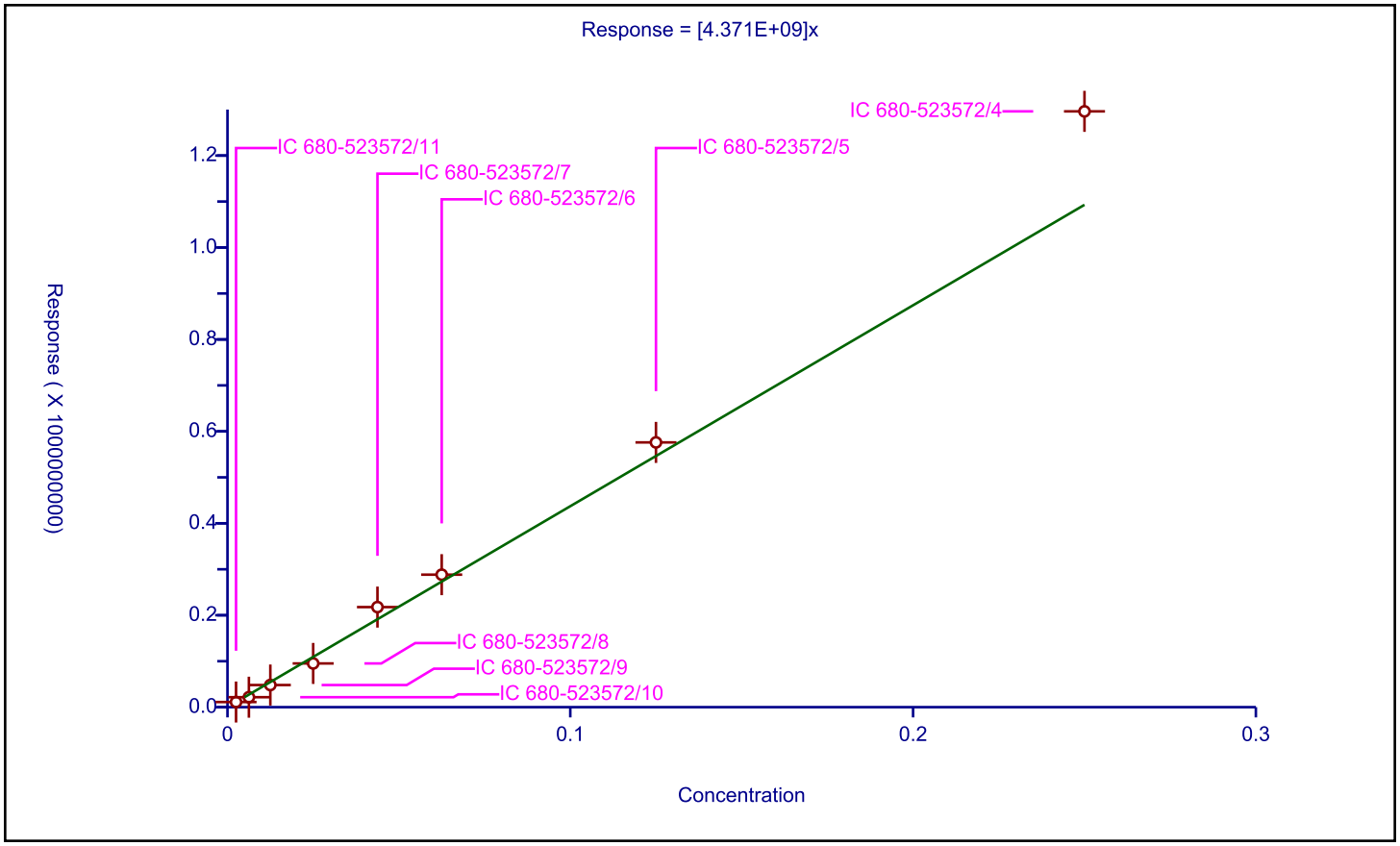
Curve Coefficients

Intercept:	0
Slope:	4.371E+09

Error Coefficients

Standard Error:	78800000
Relative Standard Error:	13.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.0025	11166313.0			4466525200.0	Y
2	IC 680-523572/10	0.00625	21666620.0			3466659200.0	Y
3	IC 680-523572/9	0.0125	48162705.0			3853016400.0	Y
4	IC 680-523572/8	0.025	95118174.0			3804726960.0	Y
5	IC 680-523572/7	0.04375	217713159.0			4976300777.14286	Y
6	IC 680-523572/6	0.0625	288236865.0			4611789840.0	Y
7	IC 680-523572/5	0.125	575977015.0			4607816120.0	Y
8	IC 680-523572/4	0.25	1296206848.0			5184827392.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

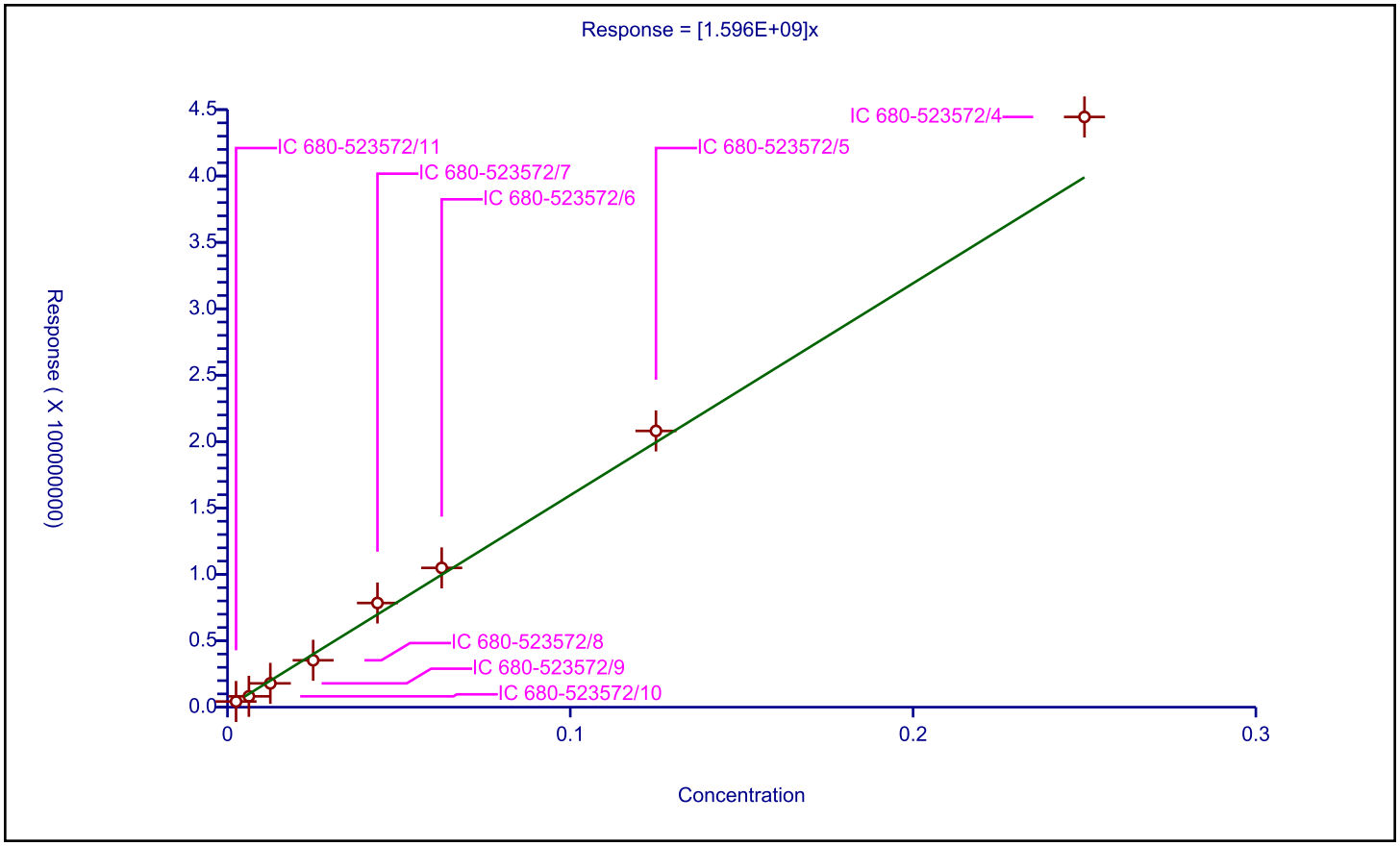
Curve Coefficients

Intercept:	0
Slope:	1.596E+09

Error Coefficients

Standard Error:	18000000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.0025	4257146.0			1702858400.0	Y
2	IC 680-523572/10	0.00625	8165417.0			1306466720.0	Y
3	IC 680-523572/9	0.0125	17924076.0			1433926080.0	Y
4	IC 680-523572/8	0.025	35295555.0			1411822200.0	Y
5	IC 680-523572/7	0.04375	78442832.0			1792979017.14286	Y
6	IC 680-523572/6	0.0625	104886881.0			1678190096.0	Y
7	IC 680-523572/5	0.125	208037482.0			1664299856.0	Y
8	IC 680-523572/4	0.25	444460886.0			1777843544.0	Y



Calibration / Chloramben

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

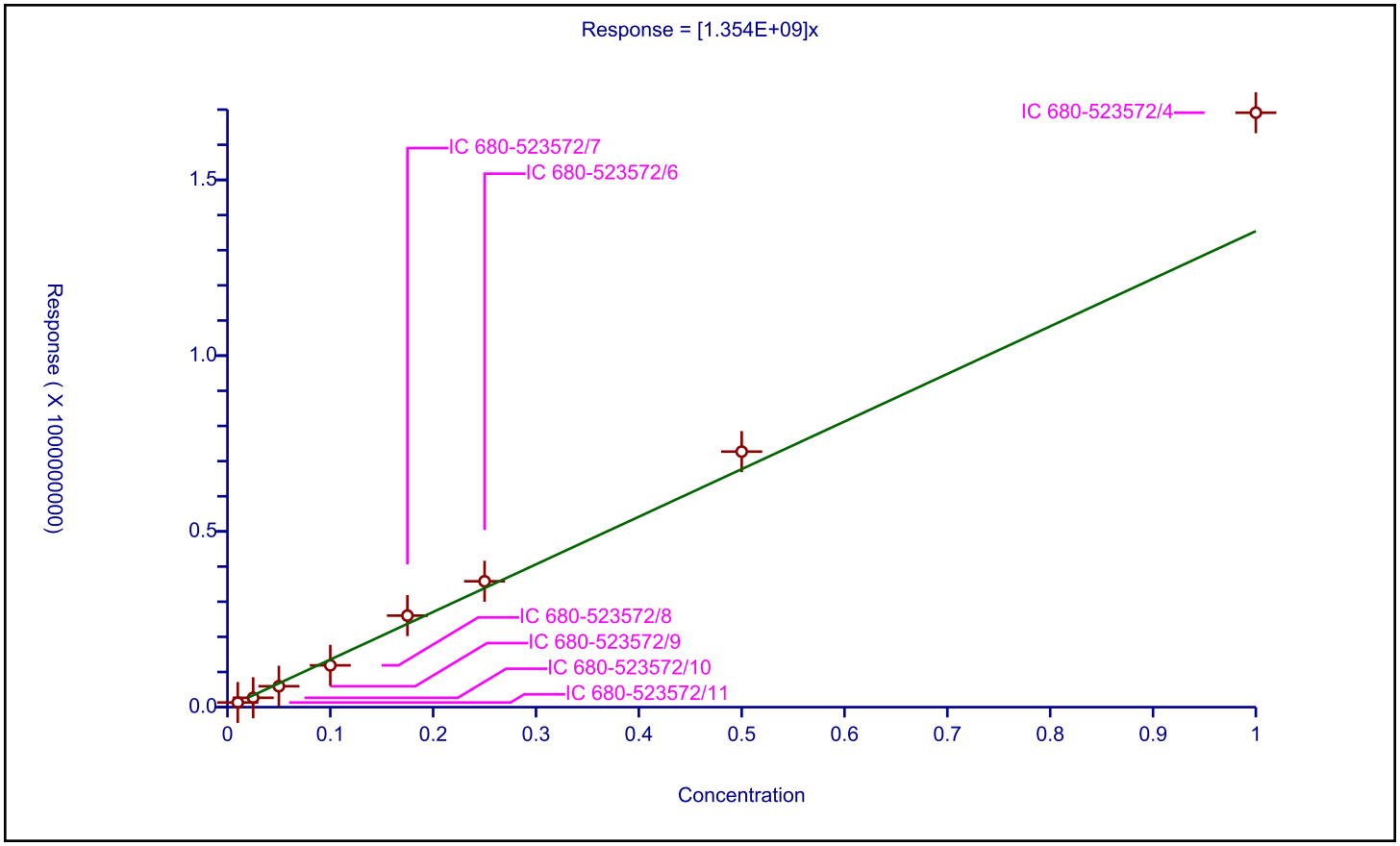
Curve Coefficients

Intercept:	0
Slope:	1.354E+09

Error Coefficients

Standard Error:	129000000
Relative Standard Error:	14.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	13202807.0			1320280700.0	Y
2	IC 680-523572/10	0.025	26686021.0			1067440840.0	Y
3	IC 680-523572/9	0.05	59544203.0			1190884060.0	Y
4	IC 680-523572/8	0.1	119026158.0			1190261580.0	Y
5	IC 680-523572/7	0.175	260489374.0			1488510708.57143	Y
6	IC 680-523572/6	0.25	358105481.0			1432421924.0	Y
7	IC 680-523572/5	0.5	726929048.0			1453858096.0	Y
8	IC 680-523572/4	1.0	1691205537.0			1691205537.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

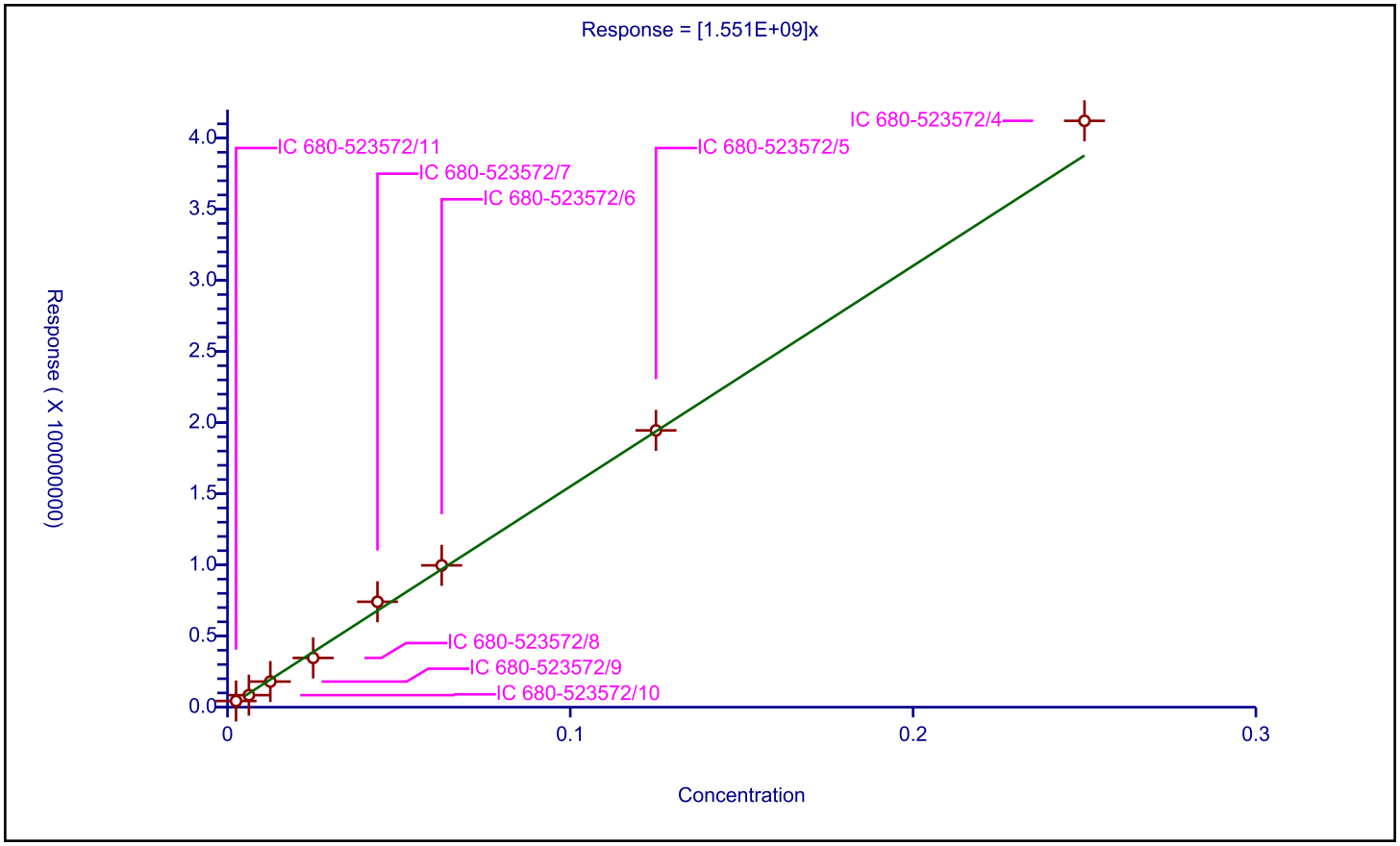
Curve Coefficients

Intercept:	0
Slope:	1.551E+09

Error Coefficients

Standard Error:	9720000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.0025	4350302.0			1740120800.0	Y
2	IC 680-523572/10	0.00625	8450464.0			1352074240.0	Y
3	IC 680-523572/9	0.0125	17990845.0			1439267600.0	Y
4	IC 680-523572/8	0.025	34604353.0			1384174120.0	Y
5	IC 680-523572/7	0.04375	74079486.0			1693245394.28571	Y
6	IC 680-523572/6	0.0625	99677914.0			1594846624.0	Y
7	IC 680-523572/5	0.125	194516334.0			1556130672.0	Y
8	IC 680-523572/4	0.25	412117776.0			1648471104.0	Y



Calibration / 2,4-DB

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

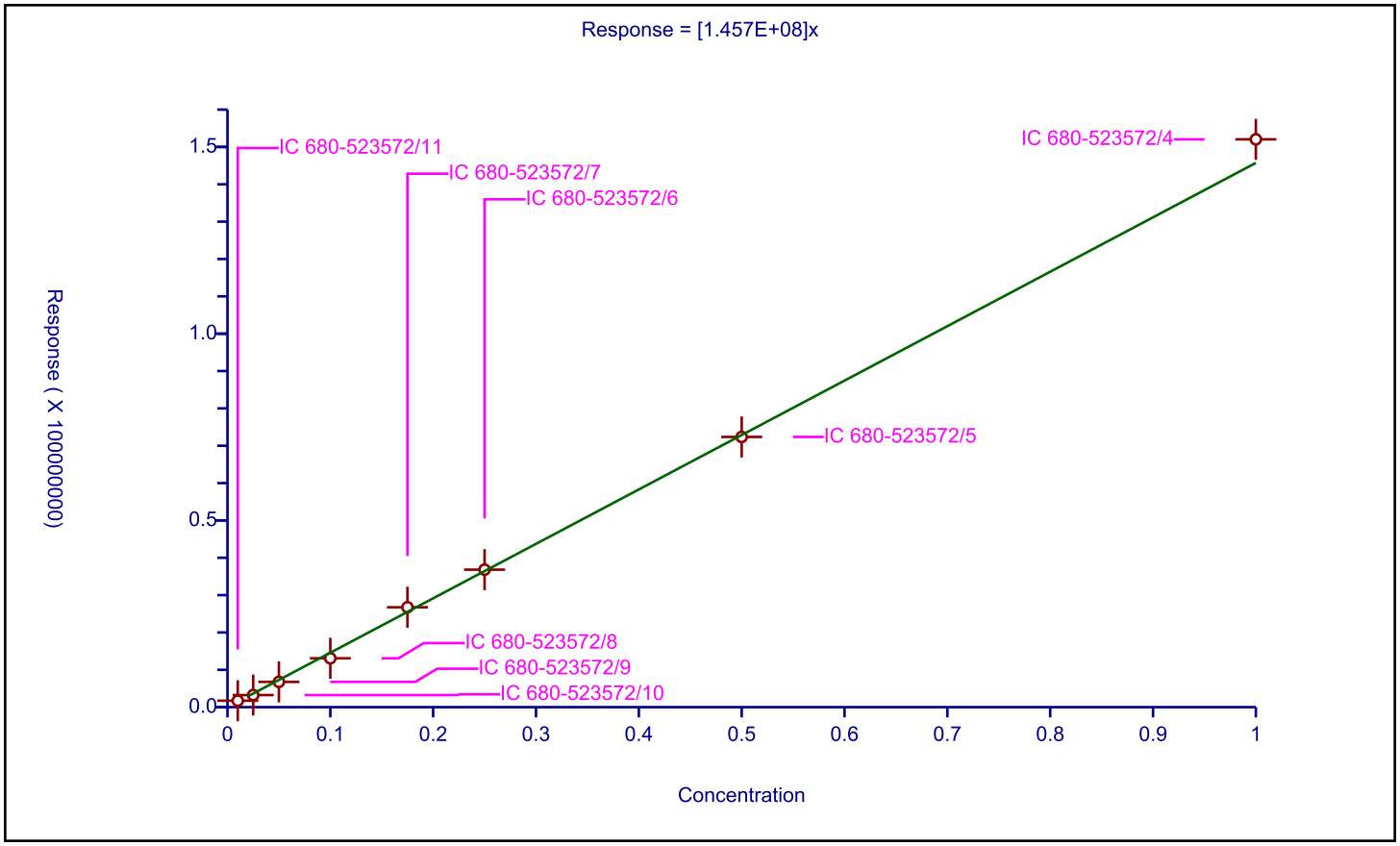
Curve Coefficients

Intercept:	0
Slope:	1.457E+08

Error Coefficients

Standard Error:	2520000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	1732409.0			173240900.0	Y
2	IC 680-523572/10	0.025	3235647.0			129425880.0	Y
3	IC 680-523572/9	0.05	6772708.0			135454160.0	Y
4	IC 680-523572/8	0.1	13086508.0			130865080.0	Y
5	IC 680-523572/7	0.175	26745929.0			152833880.0	Y
6	IC 680-523572/6	0.25	36815583.0			147262332.0	Y
7	IC 680-523572/5	0.5	72356312.0			144712624.0	Y
8	IC 680-523572/4	1.0	152037719.0			152037719.0	Y



Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

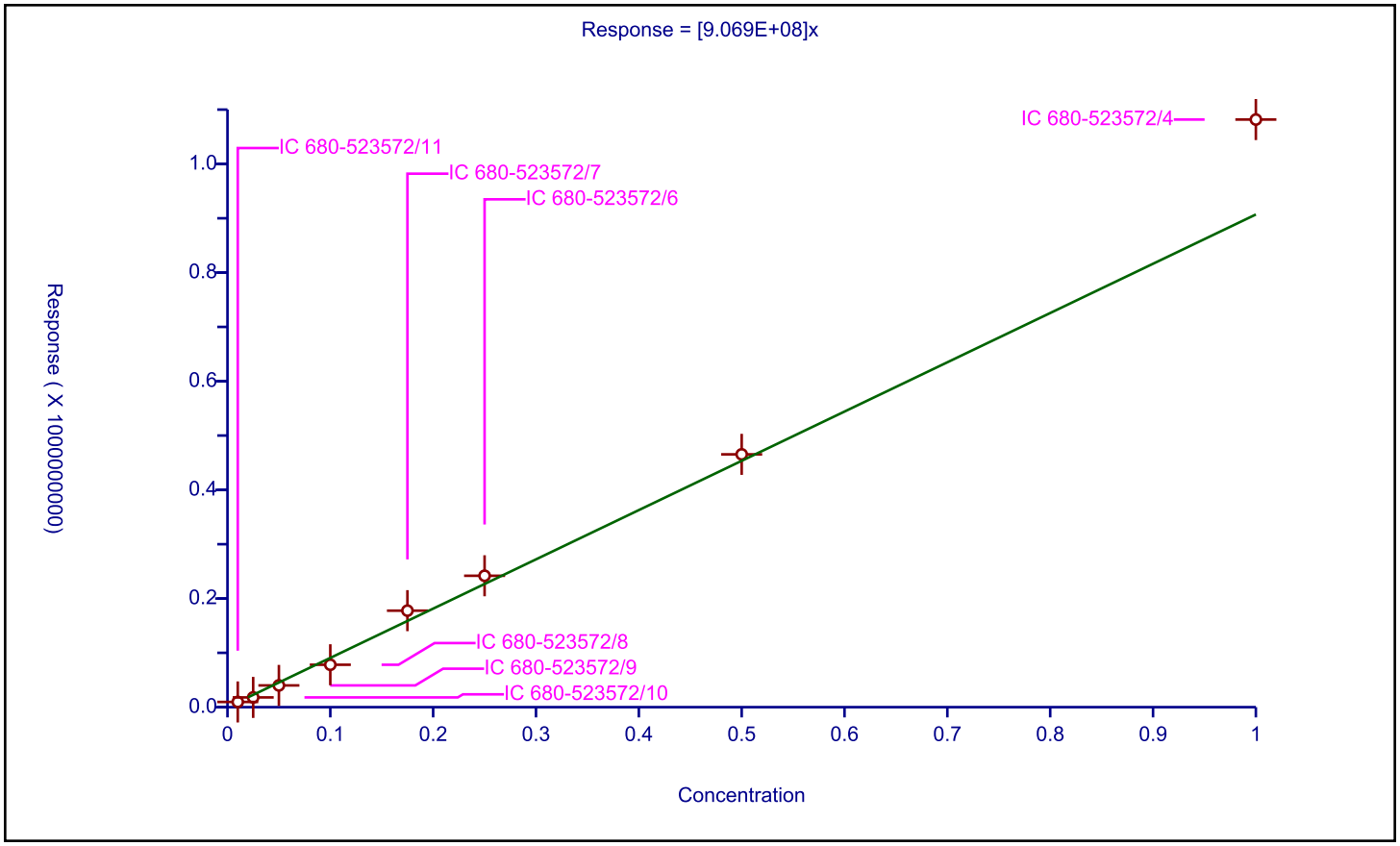
Curve Coefficients

Intercept:	0
Slope:	9.069E+08

Error Coefficients

Standard Error:	67100000
Relative Standard Error:	14.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	9609463.0			960946300.0	Y
2	IC 680-523572/10	0.025	17944898.0			717795920.0	Y
3	IC 680-523572/9	0.05	40031061.0			800621220.0	Y
4	IC 680-523572/8	0.1	78083281.0			780832810.0	Y
5	IC 680-523572/7	0.175	177677725.0			1015301285.71429	Y
6	IC 680-523572/6	0.25	241888836.0			967555344.0	Y
7	IC 680-523572/5	0.5	465388645.0			930777290.0	Y
8	IC 680-523572/4	1.0	1081702187.0			1081702187.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

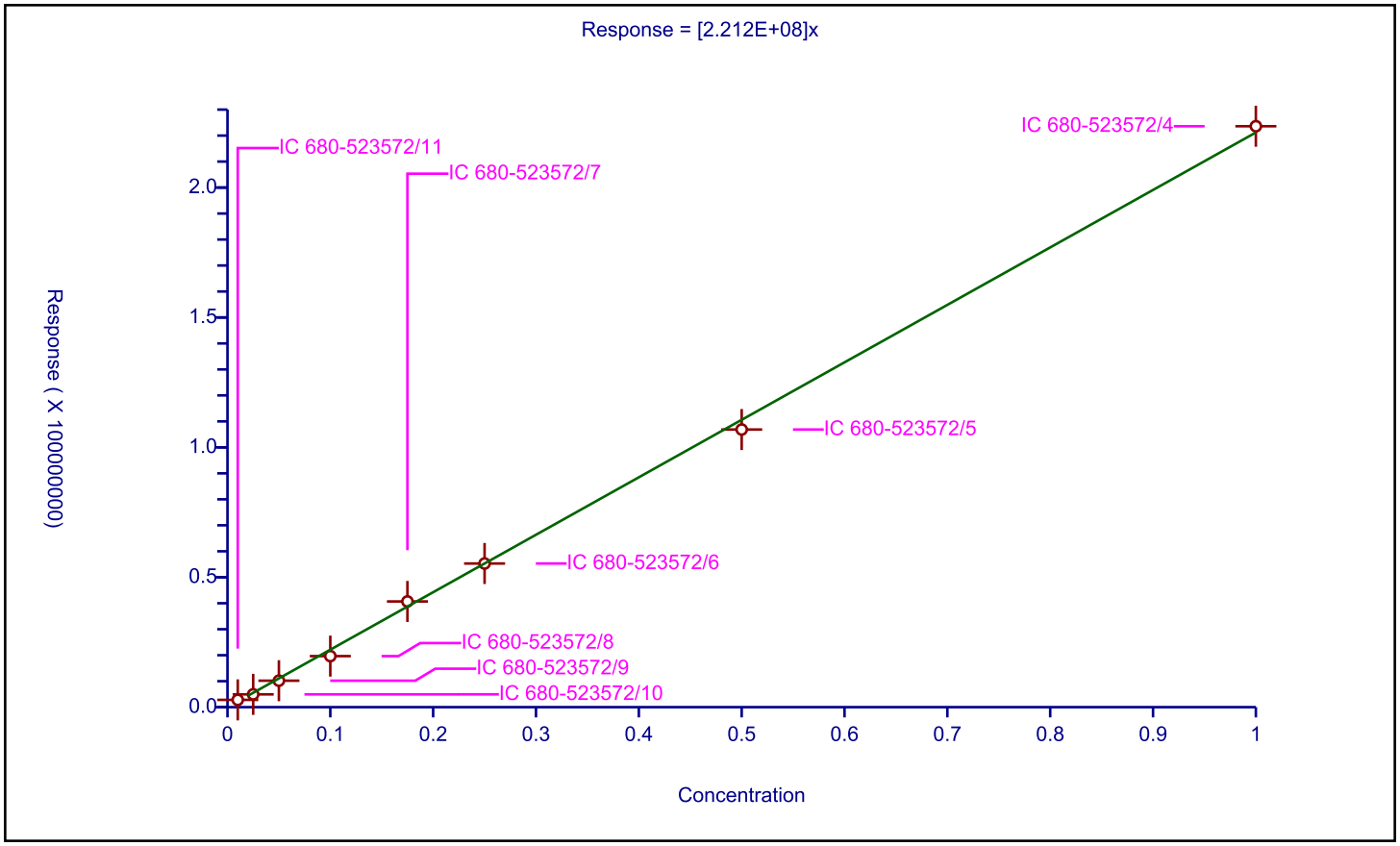
Curve Coefficients

Intercept:	0
Slope:	2.212E+08

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	12.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	2811902.0			281190200.0	Y
2	IC 680-523572/10	0.025	4925430.0			197017200.0	Y
3	IC 680-523572/9	0.05	10191475.0			203829500.0	Y
4	IC 680-523572/8	0.1	19651846.0			196518460.0	Y
5	IC 680-523572/7	0.175	40686507.0			232494325.714286	Y
6	IC 680-523572/6	0.25	55296513.0			221186052.0	Y
7	IC 680-523572/5	0.5	106862722.0			213725444.0	Y
8	IC 680-523572/4	1.0	223603698.0			223603698.0	Y



Calibration / Picloram

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

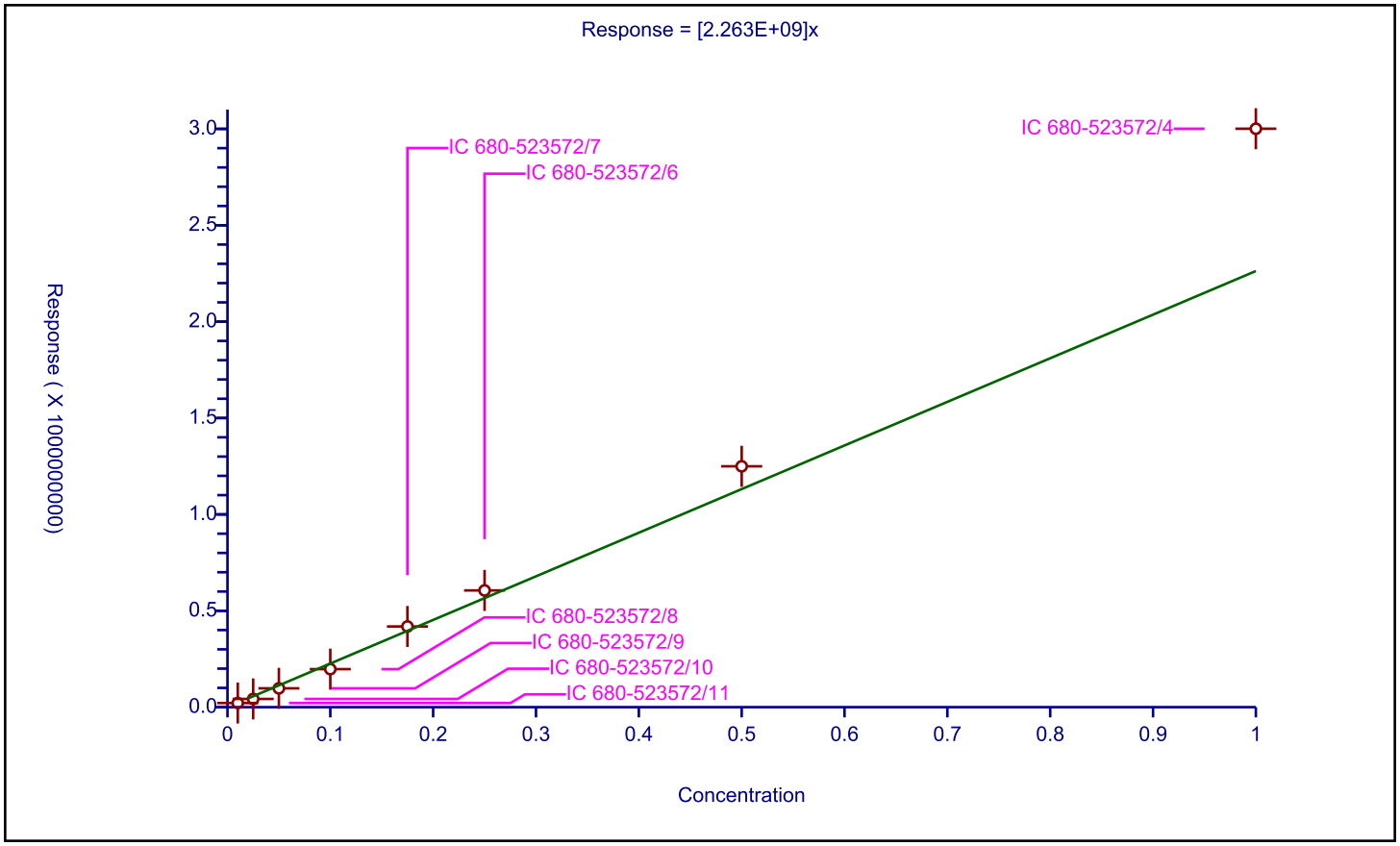
Curve Coefficients

Intercept:	0
Slope:	2.263E+09

Error Coefficients

Standard Error:	283000000
Relative Standard Error:	17.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	21523000.0			2152300000.0	Y
2	IC 680-523572/10	0.025	42654843.0			1706193720.0	Y
3	IC 680-523572/9	0.05	97726866.0			1954537320.0	Y
4	IC 680-523572/8	0.1	197347462.0			1973474620.0	Y
5	IC 680-523572/7	0.175	418538358.0			2391647760.0	Y
6	IC 680-523572/6	0.25	605542235.0			2422168940.0	Y
7	IC 680-523572/5	0.5	1249537728.0			2499075456.0	Y
8	IC 680-523572/4	1.0	3000904008.0			3000904008.0	Y



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

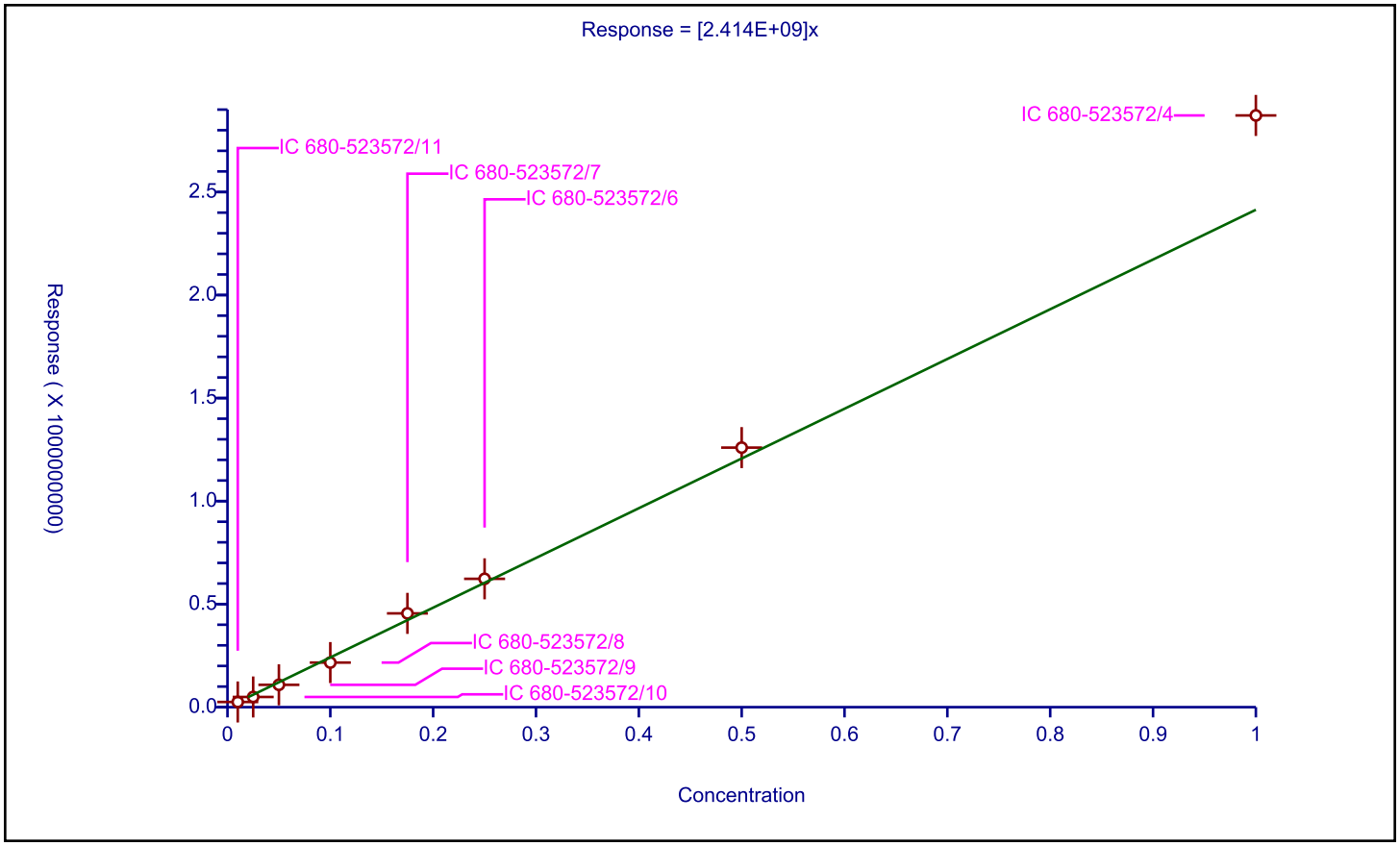
Curve Coefficients

Intercept:	0
Slope:	2.414E+09

Error Coefficients

Standard Error:	175000000
Relative Standard Error:	12.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	25166958.0			2516695800.0	Y
2	IC 680-523572/10	0.025	49421367.0			1976854680.0	Y
3	IC 680-523572/9	0.05	108476970.0			2169539400.0	Y
4	IC 680-523572/8	0.1	216427825.0			2164278250.0	Y
5	IC 680-523572/7	0.175	455199158.0			2601138045.71429	Y
6	IC 680-523572/6	0.25	622833672.0			2491334688.0	Y
7	IC 680-523572/5	0.5	1259616226.0			2519232452.0	Y
8	IC 680-523572/4	1.0	2871660154.0			2871660154.0	Y



Calibration / Acifluorfen

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

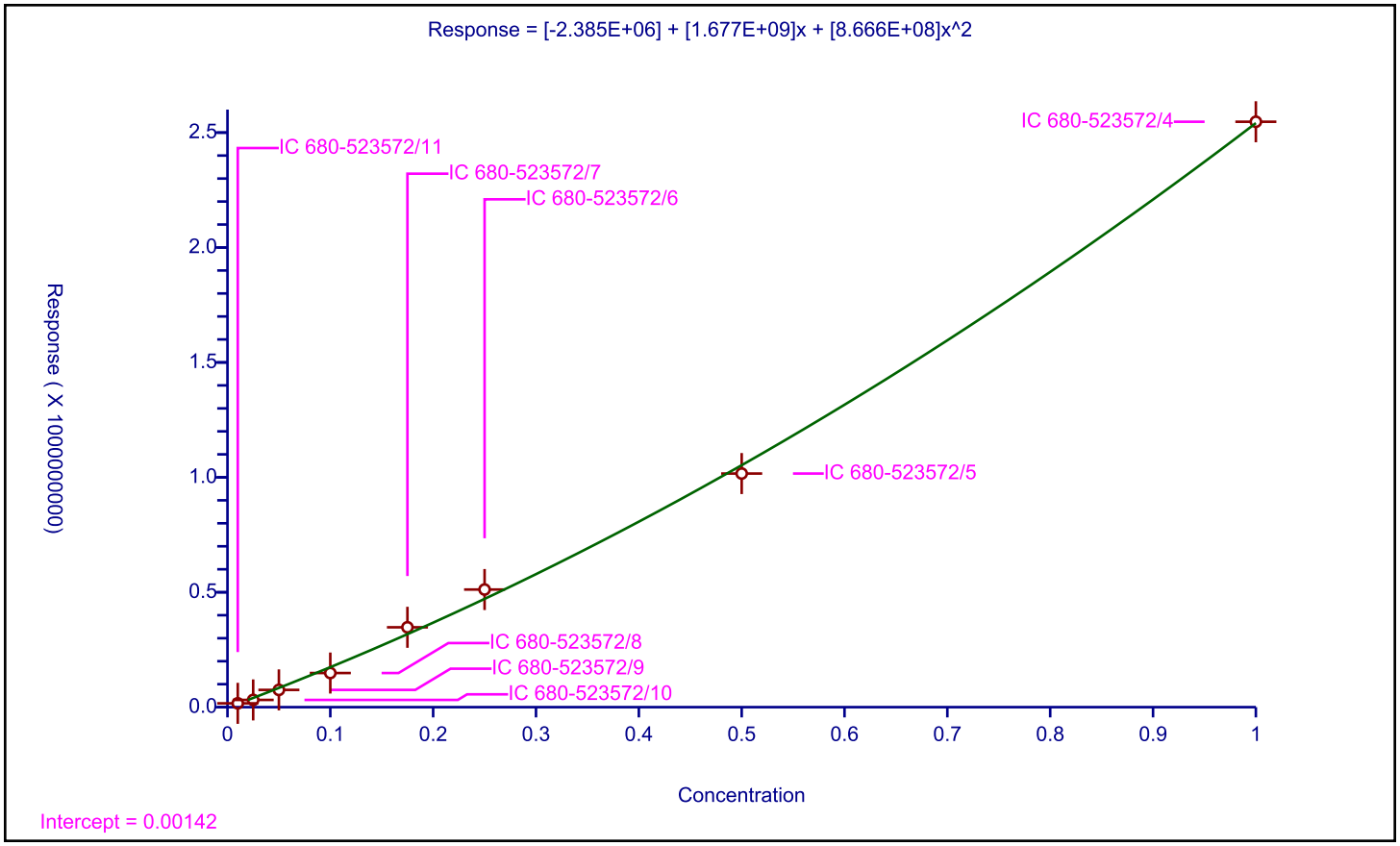
Curve Coefficients

Intercept:	-2.385E+06
Slope:	1.677E+09
Second Order:	8.666E+08

Error Coefficients

Standard Error:	30700000
Relative Standard Error:	14.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	16684062.0			1668406200.0	Y
2	IC 680-523572/10	0.025	31521813.0			1260872520.0	Y
3	IC 680-523572/9	0.05	75169574.0			1503391480.0	Y
4	IC 680-523572/8	0.1	148539275.0			1485392750.0	Y
5	IC 680-523572/7	0.175	347534675.0			1985912428.57143	Y
6	IC 680-523572/6	0.25	511854251.0			2047417004.0	Y
7	IC 680-523572/5	0.5	1016415602.0			2032831204.0	Y
8	IC 680-523572/4	1.0	2547153916.0			2547153916.0	Y



FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523572/11	SE110011.D
Level 2	IC 680-523572/10	SE110010.D
Level 3	IC 680-523572/9	SE110009.D
Level 4	IC 680-523572/8	SE110008.D
Level 5	IC 680-523572/7	SE110007.D
Level 6	IC 680-523572/6	SE110006.D
Level 7	IC 680-523572/5	SE110005.D
Level 8	IC 680-523572/4	SE110004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	+++++	2.486	2.487	2.487	2.490	2.488	2.488	2.490			2.467 - 2.507	2.488
3,5-Dichlorobenzoic acid	6.010	6.010	6.009	6.009	6.009	6.008	6.009	6.011			5.999 - 6.019	6.009
4-Nitrophenol	6.397	6.396	6.395	6.394	6.392	6.392	6.392	6.392			6.384 - 6.404	6.394
Dicamba	6.800	6.800	6.800	6.800	6.801	6.800	6.802	6.804			6.790 - 6.810	6.801
MCPP	6.849	6.849	6.848	6.848	6.849	6.848	6.850	6.852			6.838 - 6.858	6.849
MCPA	7.048	7.048	7.046	7.046	7.047	7.047	7.048	7.051			7.036 - 7.056	7.048
Dichlorprop	7.192	7.192	7.191	7.191	7.192	7.192	7.192	+++++			7.181 - 7.201	7.192
2,4-D	7.413	7.413	7.411	7.412	7.412	7.411	7.411	+++++			7.402 - 7.422	7.412
Pentachlorophenol	7.605	7.605	7.605	7.605	7.607	7.606	7.607	7.610			7.595 - 7.615	7.606
Silvex (2,4,5-TP)	7.744	7.745	7.743	7.744	7.744	7.744	7.745	7.746			7.734 - 7.754	7.744
2,4,5-T	7.977	7.977	7.976	7.976	7.976	7.976	7.977	+++++			7.966 - 7.986	7.976
Chloramben	8.050	8.050	8.049	8.049	8.050	8.049	8.051	8.052			8.039 - 8.059	8.050
Dinoseb	8.141	8.141	8.141	8.141	8.142	8.142	8.143	+++++			8.131 - 8.151	8.142
2,4-DB	8.192	8.192	8.191	8.190	8.190	8.189	8.190	8.191			8.180 - 8.200	8.191
Bentazon	8.544	8.545	8.544	8.544	8.545	8.543	8.544	8.546			8.534 - 8.554	8.544
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.657	8.657	8.657	8.658	8.659	8.658	8.661	8.664			8.648 - 8.668	8.659
Picloram	8.877	8.877	8.876	8.877	8.878	8.877	8.879	8.884			8.867 - 8.887	8.878
Acifluorfen	9.677	9.677	9.676	9.677	9.678	9.678	9.680	9.683			9.667 - 9.687	9.678
2,4-Dichlorophenylacetic acid (Surr)	+++++	6.721	6.720	6.720	6.720	6.720	6.720	6.721			6.710 - 6.730	6.720

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523572/11	SE110011.D
Level 2	IC 680-523572/10	SE110010.D
Level 3	IC 680-523572/9	SE110009.D
Level 4	IC 680-523572/8	SE110008.D
Level 5	IC 680-523572/7	SE110007.D
Level 6	IC 680-523572/6	SE110006.D
Level 7	IC 680-523572/5	SE110005.D
Level 8	IC 680-523572/4	SE110004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	+++++ 1517594989	1283045560 1399247224	1287153900 1426573496	1225545510 1564268680	Ave		1386204194				9.2		20.0			
3,5-Dichlorobenzoic acid	1829258100 1674426217	1318802320 1526833768	1381090220 1526460434	1320081390 1694404983	Ave		1533919679				12.3		20.0			
4-Nitrophenol	319476800 279343194	224156000 248483524	247337220 236914420	220062740 266999376	Ave		255346659				12.8		20.0			
Dicamba	4740919600 4762757177	3454816960 4355387896	3769285160 4383937380	3677648260 4808566916	Ave		4244164919				12.7		20.0			
MCPP	7413369 4273747	4784195 3793238	4526689 3486308	3852461 3819430	Lin1	3527032.22	3688130.64							0.9970		0.9900
MCPA	13307227 8085246	8866086 7334448	8693249 6798107	7253765 7466882	Lin2	6011499.22	7102642.69							0.9940		0.9900
Dichlorprop	1633441500 1194746840	1027328440 1099017124	1012426860 1103054932	954823660 +++++	Ave		1146405622				19.9		20.0			
2,4-D	1441384000 1426126280	1050002720 1317914556	1133402680 1340361954	1102805490 +++++	Ave		1258856811				12.8		20.0			
Pentachlorophenol	1597943240 1828034130 3	1221820560 1686783905 6	1388304984 1683761539 2	1393100144 1743044406 8	Ave		1.56785 E+010				13.4		20.0			
Silvex (2,4,5-TP)	6130686800 6826306697	4658058080 6419347312	5094779280 6563953184	5192375480 7425083260	Ave		6038823762				15.9		20.0			
2,4,5-T	5490532400 5909869234	4057202400 5658195856	4424941120 5881611120	4494309440 +++++	Ave		5130951653				15.2		20.0			
Chloramben	4686458800 5329613846	3728244600 5160212336	4178135700 5159040638	4218260310 5403593588	Ave		4732944977				13.3		20.0			
Dinoseb	2328523200 3159224840	1781729400 3119394244	2114544940 3242557024	2188616780 +++++	Qua	-38264769	3128195797	398386017						0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57205

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4-DB	793103400 753059194	661648040 711480072	701235880 711724820	670254420 815688293	Ave		727274265				7.6		20.0			
Bentazon	835033000 740386063	617397760 702816412	637199020 715243800	614726120 773013995	Ave		704477021				11.2		20.0			
Tetraphthalic acid, tetrachloro-, dimethyl	8182895100 9181687537	6459314120 8953484880	7263256320 8841082370	7285528110 8774731681	Ave		8117747515				12.3		20.0			
Picloram	6000726600 8069068954	4724411680 8434821516	5759234600 8930913788	6096929070 9495361307	Lin1	-84315949	9114649496							0.9920		0.9900
Acifluorfen	3626337700 5956451560	2818725560 6562788692	3650210960 7042374294	3971602600 8061124513	Qua	-112490563	6314935669	1863236203						0.9990		0.9900
2,4-Dichlorophenylacetic acid (Surr)	+++++ 1283052577	996752560 1168714300	1072458640 1160405180	1016826000 1298301676	Ave		1142358705				10.5		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523572/11	SE110011.D
Level 2	IC 680-523572/10	SE110010.D
Level 3	IC 680-523572/9	SE110009.D
Level 4	IC 680-523572/8	SE110008.D
Level 5	IC 680-523572/7	SE110007.D
Level 6	IC 680-523572/6	SE110006.D
Level 7	IC 680-523572/5	SE110005.D
Level 8	IC 680-523572/4	SE110004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Ave	+++++ 349811806	32076139 713286748	64357695 1564268680	122554551	265579123	+++++ 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
3,5-Dichlorobenzoic acid	Ave	18292581 381708442	32970058 763230217	69054511 1694404983	132008139	293024588	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
4-Nitrophenol	Ave	3194768 62120881	5603900 118457210	12366861 266999376	22006274	48885059	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dicamba	Ave	23704598 544423487	43185212 1095984345	94232129 2404283458	183882413	416741253	0.00500 0.125	0.0125 0.250	0.0250 0.500	0.0500	0.0875
MCPP	Lin1	7413369 94830943	11960487 174315420	22633447 381942979	38524610	74790568	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
MCPA	Lin2	13307227 183361188	22165214 339905374	43466245 746688222	72537648	141491800	1.00 25.0	2.50 50.0	5.00 100	10.0	17.5
Dichlorprop	Ave	16334415 274754281	25683211 551527466	50621343 +++++	95482366	209080697	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
2,4-D	Ave	14413840 329478639	26250068 670180977	56670134 +++++	110280549	249572099	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
Pentachlorophenol	Ave	39948581 1054239941	76363785 2104701924	173538123 4357611017	348275036	799764932	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
Silvex (2,4,5-TP)	Ave	15326717 401209207	29112863 820494148	63684741 1856270815	129809387	298650918	0.00250 0.0625	0.00625 0.125	0.0125 0.250	0.0250	0.0438
2,4,5-T	Ave	13726331 353637241	25357515 735201390	55311764 +++++	112357736	258556779	0.00250 0.0625	0.00625 0.125	0.0125 +++++	0.0250	0.0438
Chloramben	Ave	46864588 1290053084	93206115 2579520319	208906785 5403593588	421826031	932682423	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Dinoseb	Qua	23285232 779848561	44543235 1621278512	105727247 +++++	218861678	552864347	0.0100 0.250	0.0250 0.500	0.0500 +++++	0.100	0.175
2,4-DB	Ave	7931034 177870018	16541201 355862410	35061794 815688293	67025442	131785359	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Bentazon	Ave	8350330 175704103	15434944 357621900	31859951 773013995	61472612	129567561	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151865-1 Analy Batch No.: 523572

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 11:46 Calibration End Date: 05/11/2018 14:04 Calibration ID: 57205

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	81828951 2238371220	161482853 4420541185	363162816 8774731681	728552811	1606795319	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Picloram	Lin1	60007266 2108705379	118110292 4465456894	287961730 9495361307	609692907	1412087067	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
Acifluorfen	Qua	36263377 1640697173	70468139 3521187147	182510548 8061124513	397160260	1042379023	0.0100 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	+++++ 292178575	24918814 580202590	53622932 1298301676	101682600	224534201	+++++ 0.250	0.0250 0.500	0.0500 1.00	0.100	0.175

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
Qua = Quadratic

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 11-May-2018 11:46:27 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:16 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	445432487	1.00	1.03	
2	2.490	2.487	0.003	1564268680	1.00	1.13	
						RPD = 9.46	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	84362002	NC	NC	
2	4.997	4.996	0.001	491495600	NC	NC	
						RPD = 0.94	
3 2,4,6-Trichlorophenol							
1	5.679	5.678	0.001	1193993944	NC	NC	
2	5.672	5.668	0.004	4815793939	NC	NC	
						RPD = 6.57	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	284813773	1.00	1.00	
2	6.011	6.009	0.002	1694404983	1.00	1.10	
						RPD = 9.66	
5 4-Nitrophenol							
1	6.139	6.141	-0.002	81893704	1.00	0.8858	
2	6.392	6.394	-0.002	266999376	1.00	1.05	
						RPD = 16.55	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	177446511	1.00	1.03	
2	6.721	6.720	0.001	1298301676	1.00	1.14	
						RPD = 9.63	
7 Dicamba							
1	6.609	6.609	0.000	482569817	0.5000	0.5346	
2	6.804	6.800	0.004	2404283458	0.5000	0.5665	
						RPD = 5.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.761	6.757	0.004	56375223	100.0	94.3	
2	6.852	6.848	0.004	381942979	100.0	102.6	
						RPD = 8.45	
9 MCPA							
1	6.888	6.883	0.005	65377356	100.0	96.5	
2	7.051	7.046	0.005	746688222	100.0	104.3	
						RPD = 7.72	
10 Dichlorprop							
1	7.069	7.069	0.000	228040422	1.00	0.99	
2	7.194	7.191	0.003	1258500696	1.00	1.10	
						RPD = 10.23	
11 2,4-D							
1	7.213	7.214	-0.001	283206384	1.00	1.04	
2	7.413	7.412	0.001	1543015821	1.00	1.23	
						RPD = 16.70	
12 Pentachlorophenol							
1	7.564	7.562	0.002	1296206848	0.2500	0.2965	
2	7.610	7.605	0.005	4357611017	0.2500	0.2779	
						RPD = 6.47	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	444460886	0.2500	0.2785	
2	7.746	7.744	0.002	1856270815	0.2500	0.3074	
						RPD = 9.87	
14 Chloramben							
1	7.740	7.739	0.001	1691205537	1.00	1.25	
2	8.052	8.049	0.003	5403593588	1.00	1.14	
						RPD = 8.95	
15 2,4,5-T							
1	7.816	7.816	0.000	412117776	0.2500	0.2657	
2	7.978	7.976	0.002	1686681883	0.2500	0.3287	
						RPD = 21.20	
16 2,4-DB							
1	8.058	8.059	-0.001	152037719	1.00	1.04	
2	8.191	8.190	0.001	815688293	1.00	1.12	
						RPD = 7.23	
17 Dinoseb							
1	8.113	8.113	0.000	1081702187	1.00	1.19	
2	8.146	8.141	0.005	3848176282	1.00	1.09	
						RPD = 8.92	
18 Bentazon							
1	8.185	8.184	0.001	223603698	1.00	1.01	
2	8.546	8.544	0.002	773013995	1.00	1.10	
						RPD = 8.20	
19 Picloram							
1	8.401	8.399	0.002	3000904008	1.00	1.33	
2	8.884	8.877	0.007	9495361307	1.00	1.05	
						RPD = 23.16	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.506	8.504	0.002	2871660154	1.00	1.19	
2	8.664	8.658	0.006	8774731681	1.00	1.08	
						RPD = 9.58	
21 Acifluorfen							
1	9.545	9.543	0.002	2547153916	1.00	1.00	
2	9.683	9.677	0.006	8061124513	1.00	1.00	
						RPD = 0.22	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

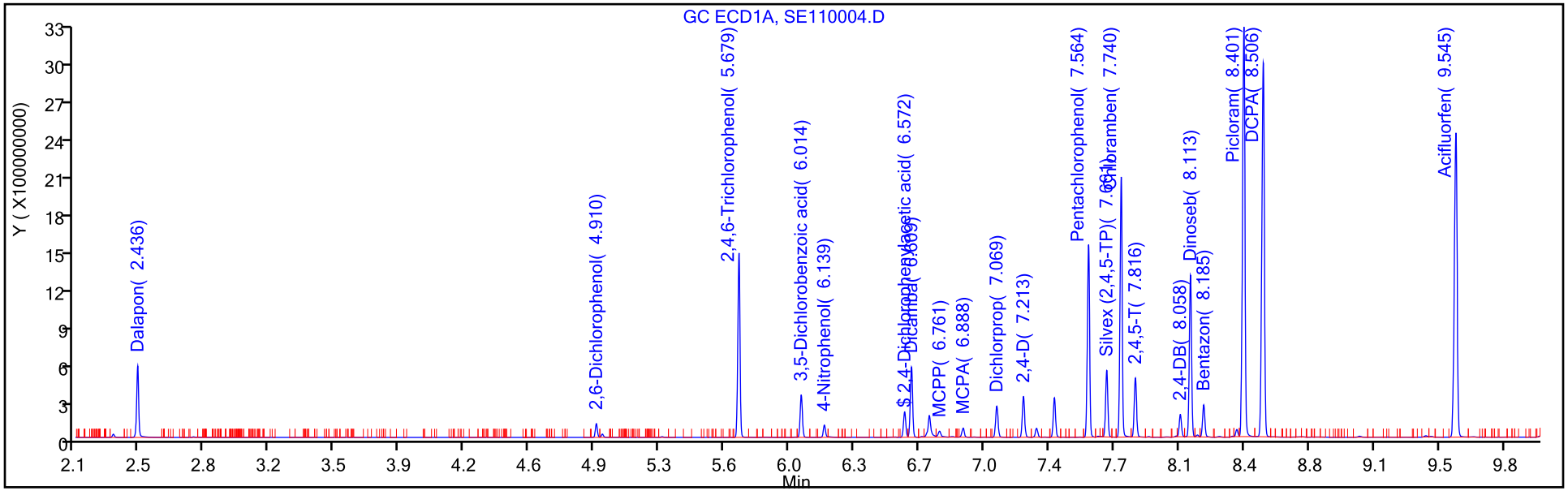
Report Date: 11-May-2018 16:22:19 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

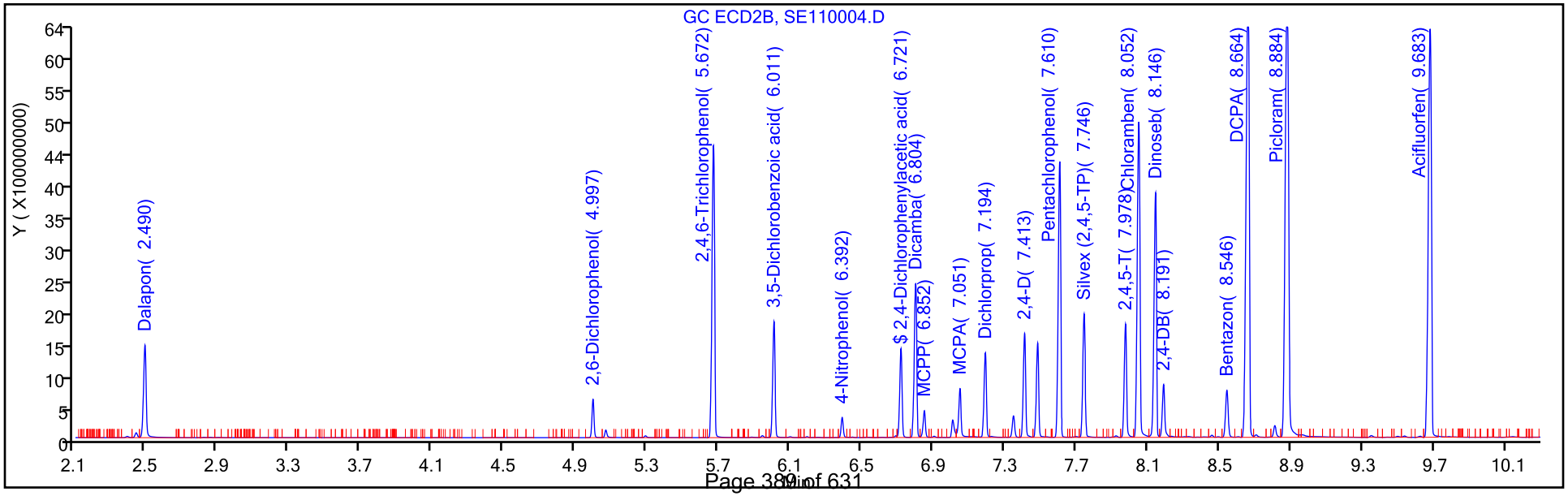
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110004.D

Injection Date:	11-May-2018 11:46:27	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-May-2018 12:06:02 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:23 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	209658233	0.5000	0.4837	
2	2.488	2.487	0.001	713286748	0.5000	0.5146	
						RPD = 6.18	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	40538544	NC	NC	
2	4.997	4.996	0.001	230188115	NC	NC	
						RPD = 1.17	
3 2,4,6-Trichlorophenol							
1	5.678	5.678	0.000	538201950	NC	NC	
2	5.671	5.668	0.003	2375427992	NC	NC	
						RPD = 2.44	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	132790199	0.5000	0.4676	
2	6.009	6.009	0.000	763230217	0.5000	0.4976	
						RPD = 6.22	
5 4-Nitrophenol							
1	6.139	6.141	-0.002	42115762	0.5000	0.4556	
2	6.392	6.394	-0.002	118457210	0.5000	0.4639	
						RPD = 1.81	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	83069272	0.5000	0.4832	
2	6.720	6.720	0.000	580202590	0.5000	0.5079	
						RPD = 4.99	
7 Dicamba							
1	6.607	6.609	-0.002	222402654	0.2500	0.2464	
2	6.802	6.800	0.002	1095984345	0.2500	0.2582	
						RPD = 4.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.758	6.757	0.001	30834503	50.0	51.6	
2	6.850	6.848	0.002	174315420	50.0	46.3	
						RPD = 10.75	
9 MCPA							
1	6.885	6.883	0.002	33294860	50.0	48.8	
2	7.048	7.046	0.002	339905374	50.0	47.0	
						RPD = 3.82	
10 Dichlorprop							
1	7.068	7.069	-0.001	107043659	0.5000	0.4651	
2	7.192	7.191	0.001	551527466	0.5000	0.4811	
						RPD = 3.37	
11 2,4-D							
1	7.212	7.214	-0.002	130478087	0.5000	0.4777	
2	7.411	7.412	-0.001	670180977	0.5000	0.5324	
						RPD = 10.83	
12 Pentachlorophenol							
1	7.562	7.562	0.000	575977015	0.1250	0.1318	
2	7.607	7.605	0.002	2104701924	0.1250	0.1342	
						RPD = 1.87	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	208037482	0.1250	0.1303	
2	7.745	7.744	0.001	820494148	0.1250	0.1359	
						RPD = 4.15	
14 Chloramben							
1	7.738	7.739	-0.001	726929048	0.5000	0.5367	
2	8.051	8.049	0.002	2579520319	0.5000	0.5450	
						RPD = 1.53	
15 2,4,5-T							
1	7.816	7.816	0.000	194516334	0.1250	0.1254	
2	7.977	7.976	0.001	735201390	0.1250	0.1433	
						RPD = 13.31	
16 2,4-DB							
1	8.057	8.059	-0.002	72356312	0.5000	0.4965	
2	8.190	8.190	0.000	355862410	0.5000	0.4893	
						RPD = 1.46	
17 Dinoseb							
1	8.112	8.113	-0.001	465388645	0.5000	0.5131	
2	8.143	8.141	0.002	1621278512	0.5000	0.4988	
						RPD = 2.83	
18 Bentazon							
1	8.184	8.184	0.000	106862722	0.5000	0.4831	
2	8.544	8.544	0.000	357621900	0.5000	0.5076	
						RPD = 4.95	
19 Picloram							
1	8.399	8.399	0.000	1249537728	0.5000	0.5523	
2	8.879	8.877	0.002	4465456894	0.5000	0.4992	
						RPD = 10.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.504	8.504	0.000	1259616226	0.5000	0.5218	
2	8.661	8.658	0.003	4420541185	0.5000	0.5446	
						RPD = 4.26	
21 Acifluorfen							
1	9.542	9.543	-0.001	1016415602	0.5000	0.4856	
2	9.680	9.677	0.003	3521187147	0.5000	0.5013	
						RPD = 3.17	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

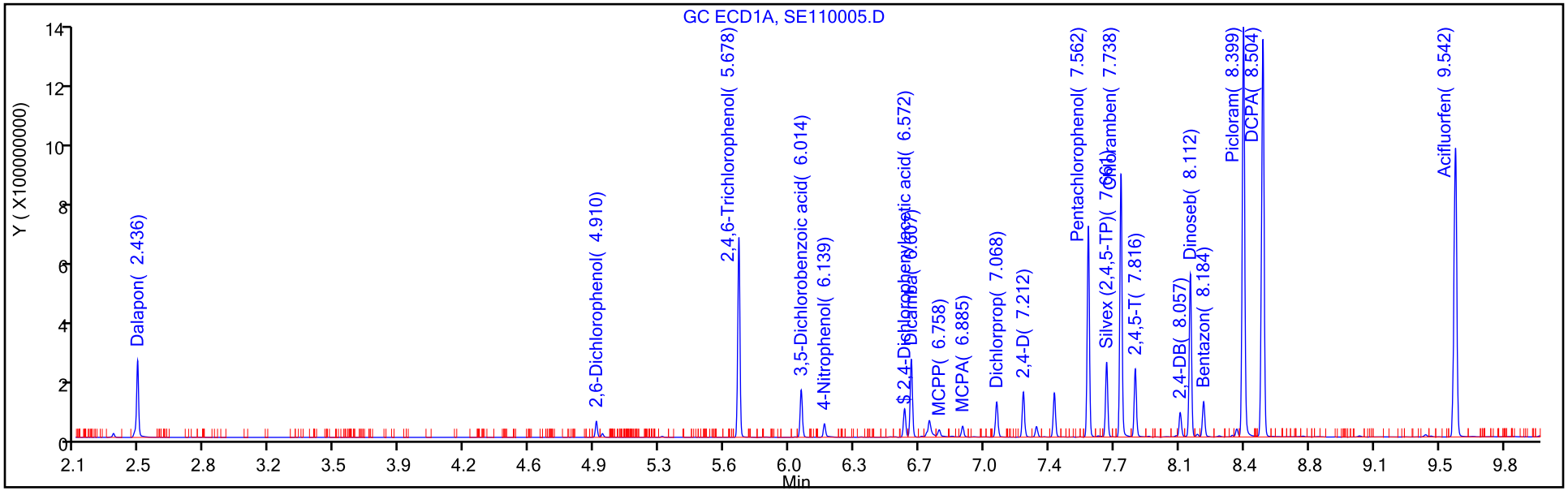
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TestAmerica Savannah

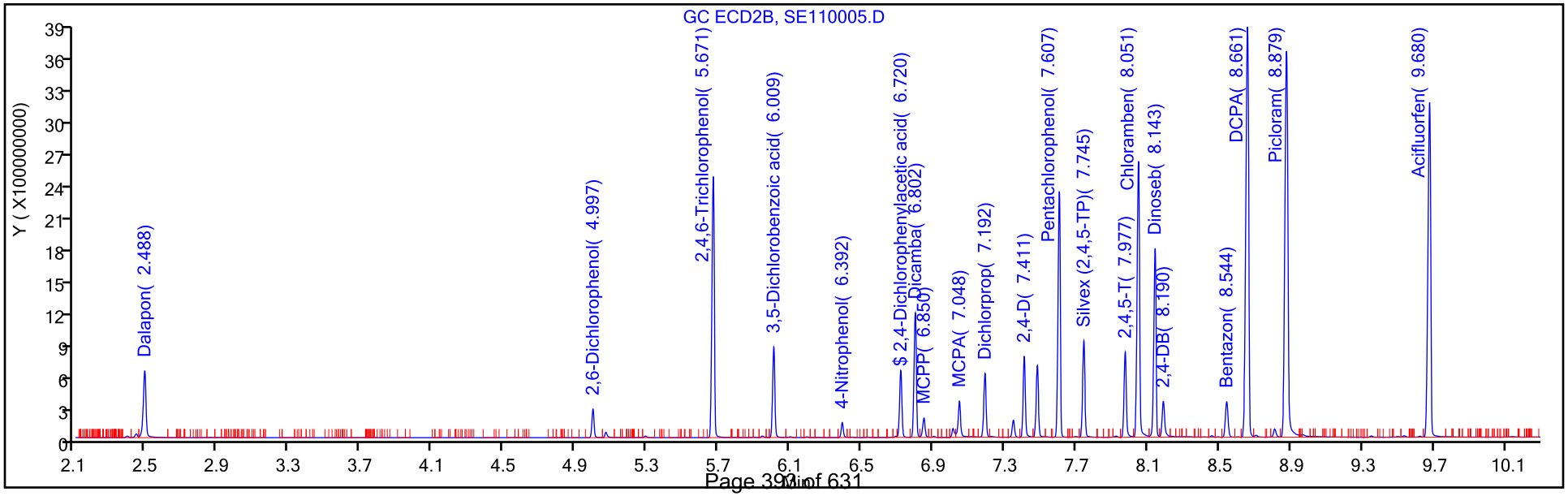
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110005.D

Injection Date:	11-May-2018 12:06:02	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-May-2018 12:25:37 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:31 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	107312017	0.2500	0.2481	
2	2.488	2.487	0.001	349811806	0.2500	0.2524	
						RPD = 1.72	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	21230930	NC	NC	
2	4.997	4.996	0.001	116495350	NC	NC	
						RPD = 3.79	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	268607524	NC	NC	
2	5.670	5.668	0.002	1191757936	NC	NC	
						RPD = 2.96	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	67878078	0.2500	0.2390	
2	6.008	6.009	-0.001	381708442	0.2500	0.2488	
						RPD = 4.03	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	22420839	0.2500	0.2425	
2	6.392	6.394	-0.002	62120881	0.2500	0.2433	
						RPD = 0.31	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	42921117	0.2500	0.2496	
2	6.720	6.720	0.000	292178575	0.2500	0.2558	
						RPD = 2.42	
7 Dicamba							
1	6.608	6.609	-0.001	113017289	0.1250	0.1252	
2	6.800	6.800	0.000	544423487	0.1250	0.1283	
						RPD = 2.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	15246200	25.0	25.5	
2	6.848	6.848	0.000	94830943	25.0	24.8	
						RPD = 2.95	
9 MCPA							
1	6.884	6.883	0.001	18344524	25.0	26.6	
2	7.047	7.046	0.001	183361188	25.0	25.0	
						RPD = 6.38	
10 Dichlorprop							
1	7.068	7.069	-0.001	55680580	0.2500	0.2419	
2	7.192	7.191	0.001	274754281	0.2500	0.2397	
						RPD = 0.95	
11 2,4-D							
1	7.212	7.214	-0.002	67145343	0.2500	0.2458	
2	7.411	7.412	-0.001	329478639	0.2500	0.2617	
						RPD = 6.27	
12 Pentachlorophenol							
1	7.562	7.562	0.000	288236865	0.0625	0.0659	
2	7.606	7.605	0.001	1054239941	0.0625	0.0672	
						RPD = 1.96	
13 Silvex (2,4,5-TP)							
1	7.662	7.661	0.001	104886881	0.0625	0.0657	
2	7.744	7.744	0.000	401209207	0.0625	0.0664	
						RPD = 1.09	
14 Chloramben							
1	7.738	7.739	-0.001	358105481	0.2500	0.2644	
2	8.049	8.049	0.000	1290053084	0.2500	0.2726	
						RPD = 3.04	
15 2,4,5-T							
1	7.816	7.816	0.000	99677914	0.0625	0.0643	
2	7.976	7.976	0.000	353637241	0.0625	0.0689	
						RPD = 6.99	
16 2,4-DB							
1	8.058	8.059	-0.001	36815583	0.2500	0.2526	
2	8.189	8.190	-0.001	177870018	0.2500	0.2446	
						RPD = 3.24	
17 Dinoseb							
1	8.112	8.113	-0.001	241888836	0.2500	0.2667	
2	8.142	8.141	0.001	779848561	0.2500	0.2534	
						RPD = 5.14	
18 Bentazon							
1	8.183	8.184	-0.001	55296513	0.2500	0.2500	
2	8.543	8.544	-0.001	175704103	0.2500	0.2494	
						RPD = 0.23	
19 Picloram							
1	8.399	8.399	0.000	605542235	0.2500	0.2676	
2	8.877	8.877	0.000	2108705379	0.2500	0.2406	
						RPD = 10.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.503	8.504	-0.001	622833672	0.2500	0.2580	
2	8.658	8.658	0.000	2238371220	0.2500	0.2757	
						RPD = 6.64	
21 Acifluorfen							
1	9.542	9.543	-0.001	511854251	0.2500	0.2692	
2	9.678	9.677	0.001	1640697173	0.2500	0.2580	
						RPD = 4.25	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

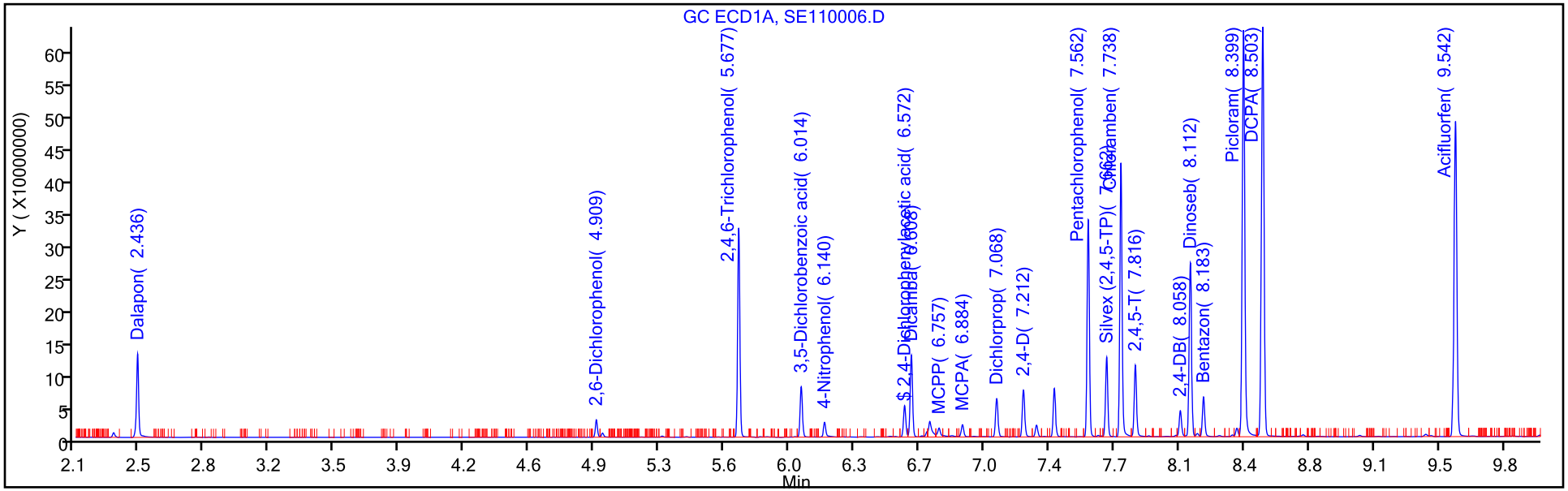
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TestAmerica Savannah

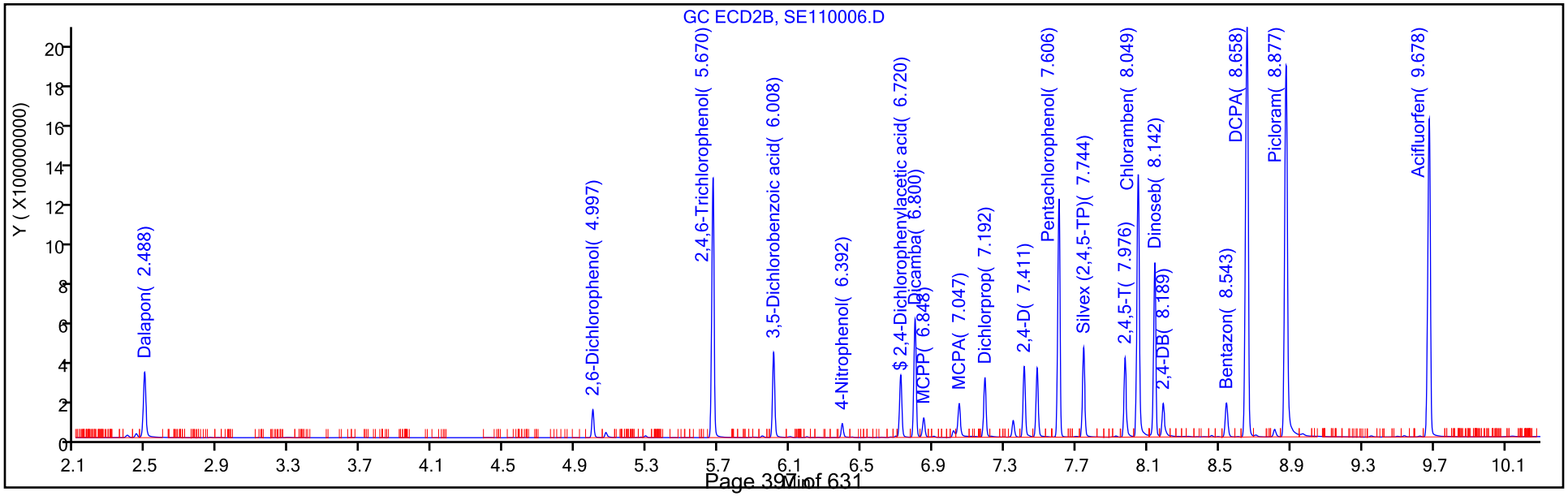
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Injection Date:	11-May-2018 12:25:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-May-2018 12:45:20 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:40 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.437	2.434	0.003	83189035	0.1750	0.1925	
2	2.490	2.487	0.003	265579123	0.1750	0.1916	
						RPD = 0.48	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	16215566	NC	NC	
2	4.997	4.996	0.001	90391556	NC	NC	
						RPD = 1.65	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	201951399	NC	NC	
2	5.669	5.668	0.001	904140464	NC	NC	
						RPD = 3.86	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	53327970	0.1750	0.1878	
2	6.009	6.009	0.000	293024588	0.1750	0.1910	
						RPD = 1.72	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	18010823	0.1750	0.1948	
2	6.392	6.394	-0.002	48885059	0.1750	0.1914	
						RPD = 1.75	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	34059424	0.1750	0.1981	
2	6.720	6.720	0.000	224534201	0.1750	0.1966	
						RPD = 0.79	
7 Dicamba							
1	6.608	6.609	-0.001	88040365	0.0875	0.0975	
2	6.801	6.800	0.001	416741253	0.0875	0.0982	
						RPD = 0.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	11785560	17.5	19.7	
2	6.849	6.848	0.001	74790568	17.5	19.3	
						RPD = 1.99	
9 MCPA							
1	6.884	6.883	0.001	14503654	17.5	20.9	
2	7.047	7.046	0.001	141491800	17.5	19.1	
						RPD = 9.15	
10 Dichlorprop							
1	7.069	7.069	0.000	43494282	0.1750	0.1890	
2	7.192	7.191	0.001	209080697	0.1750	0.1824	
						RPD = 3.56	
11 2,4-D							
1	7.212	7.214	-0.002	52251610	0.1750	0.1913	
2	7.412	7.412	0.000	249572099	0.1750	0.1983	
						RPD = 3.57	
12 Pentachlorophenol							
1	7.562	7.562	0.000	217713159	0.0438	0.0498	
2	7.607	7.605	0.002	799764932	0.0438	0.0510	
						RPD = 2.39	
13 Silvex (2,4,5-TP)							
1	7.662	7.661	0.001	78442832	0.0438	0.0491	
2	7.744	7.744	0.000	298650918	0.0438	0.0495	
						RPD = 0.62	
14 Chloramben							
1	7.739	7.739	0.000	260489374	0.1750	0.1923	
2	8.050	8.049	0.001	932682423	0.1750	0.1971	
						RPD = 2.43	
15 2,4,5-T							
1	7.816	7.816	0.000	74079486	0.0438	0.0478	
2	7.976	7.976	0.000	258556779	0.0438	0.0504	
						RPD = 5.36	
16 2,4-DB							
1	8.059	8.059	0.000	26745929	0.1750	0.1835	
2	8.190	8.190	0.000	131785359	0.1750	0.1812	
						RPD = 1.28	
17 Dinoseb							
1	8.112	8.113	-0.001	177677725	0.1750	0.1959	
2	8.142	8.141	0.001	552864347	0.1750	0.1846	
						RPD = 5.93	
18 Bentazon							
1	8.184	8.184	0.000	40686507	0.1750	0.1839	
2	8.545	8.544	0.001	129567561	0.1750	0.1839	
						RPD = 0.01	
19 Picloram							
1	8.400	8.399	0.001	418538358	0.1750	0.1850	
2	8.878	8.877	0.001	1412087067	0.1750	0.1642	
						RPD = 11.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.503	8.504	-0.001	455199158	0.1750	0.1886	
2	8.659	8.658	0.001	1606795319	0.1750	0.1979	
						RPD = 4.84	
21 Acifluorfen							
1	9.543	9.543	0.000	347534675	0.1750	0.1900	
2	9.678	9.677	0.001	1042379023	0.1750	0.1740	
						RPD = 8.82	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

Report Date: 11-May-2018 16:22:44 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110007.D

Injection Date: 11-May-2018 12:45:20 Instrument ID: CSGS Operator ID: GEM

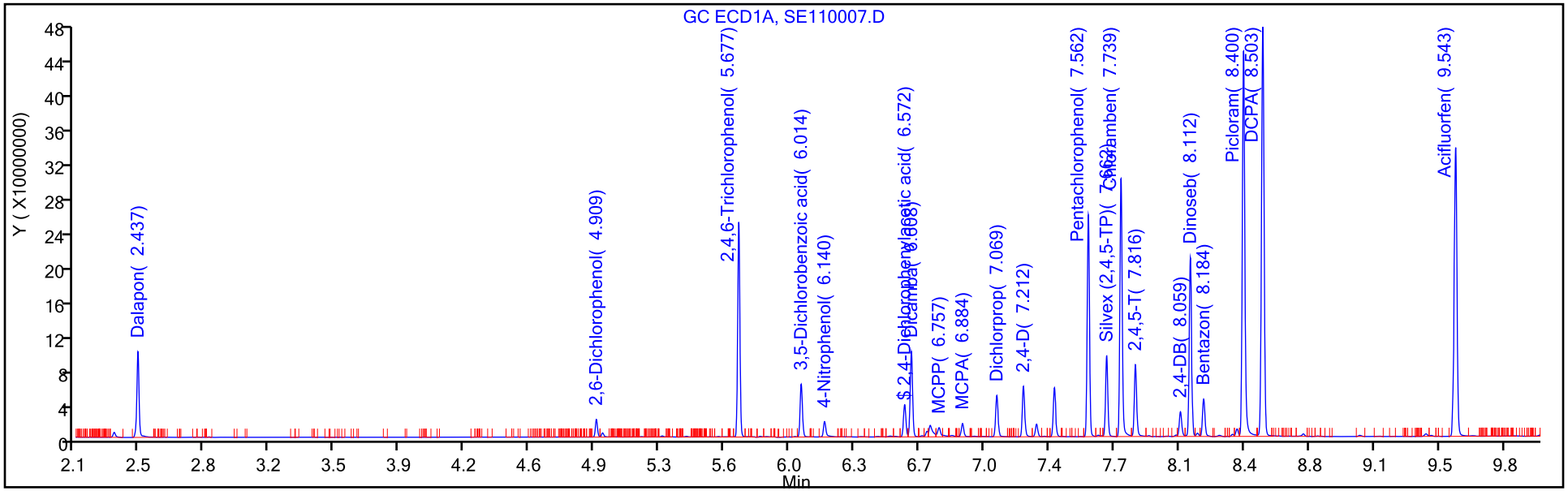
Lims ID: ic h5 Worklist Smp#: 7

Client ID:

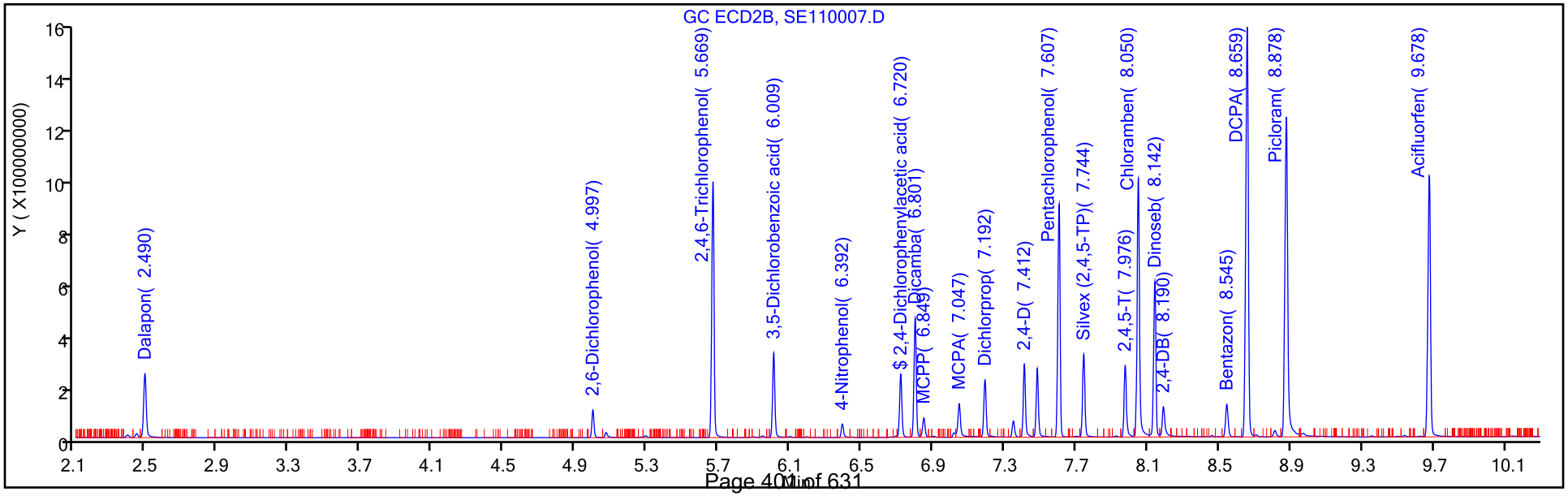
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-May-2018 13:05:09 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:50 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.434	2.434	0.000	39308326	0.1000	0.0915	
2	2.487	2.487	0.000	122554551	0.1000	0.0884	
						RPD = 3.41	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	8281104	NC	NC	
2	4.996	4.996	0.000	42242380	NC	NC	
						RPD = 8.44	
3 2,4,6-Trichlorophenol							
1	5.678	5.678	0.000	92332408	NC	NC	
2	5.668	5.668	0.000	398541878	NC	NC	
						RPD = 0.21	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	24903843	0.1000	0.0877	
2	6.009	6.009	0.000	132008139	0.1000	0.0861	
						RPD = 1.88	
5 4-Nitrophenol							
1	6.141	6.141	0.000	8515464	0.1000	0.0921	
2	6.394	6.394	0.000	22006274	0.1000	0.0862	
						RPD = 6.65	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	15674889	0.1000	0.0912	
2	6.720	6.720	0.000	101682600	0.1000	0.0890	
						RPD = 2.40	
7 Dicamba							
1	6.609	6.609	0.000	39167090	0.0500	0.0434	
2	6.800	6.800	0.000	183882413	0.0500	0.0433	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	5630043	10.0	9.42	
2	6.848	6.848	0.000	38524610	10.0	9.49	
						RPD = 0.77	
9 MCPA							
1	6.883	6.883	0.000	6946174	10.0	9.67	
2	7.046	7.046	0.000	72537648	10.0	9.37	
						RPD = 3.18	
10 Dichlorprop							
1	7.069	7.069	0.000	19831661	0.1000	0.0862	
2	7.191	7.191	0.000	95482366	0.1000	0.0833	
						RPD = 3.41	
11 2,4-D							
1	7.214	7.214	0.000	23710912	0.1000	0.0868	
2	7.412	7.412	0.000	110280549	0.1000	0.0876	
						RPD = 0.91	
12 Pentachlorophenol							
1	7.562	7.562	0.000	95118174	0.0250	0.0218	
2	7.605	7.605	0.000	348275036	0.0250	0.0222	
						RPD = 2.07	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	35295555	0.0250	0.0221	
2	7.744	7.744	0.000	129809387	0.0250	0.0215	
						RPD = 2.84	
14 Chloramben							
1	7.739	7.739	0.000	119026158	0.1000	0.0879	
2	8.049	8.049	0.000	421826031	0.1000	0.0891	
						RPD = 1.40	
15 2,4,5-T							
1	7.816	7.816	0.000	34604353	0.0250	0.0223	
2	7.976	7.976	0.000	112357736	0.0250	0.0219	
						RPD = 1.87	
16 2,4-DB							
1	8.059	8.059	0.000	13086508	0.1000	0.0898	
2	8.190	8.190	0.000	67025442	0.1000	0.0922	
						RPD = 2.59	
17 Dinoseb							
1	8.113	8.113	0.000	78083281	0.1000	0.0861	
2	8.141	8.141	0.000	218861678	0.1000	0.0814	
						RPD = 5.66	
18 Bentazon							
1	8.184	8.184	0.000	19651846	0.1000	0.0888	
2	8.544	8.544	0.000	61472612	0.1000	0.0873	
						RPD = 1.80	
19 Picloram							
1	8.399	8.399	0.000	197347462	0.1000	0.0872	
2	8.877	8.877	0.000	609692907	0.1000	0.0761	
						RPD = 13.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.504	8.504	0.000	216427825	0.1000	0.0897	
2	8.658	8.658	0.000	728552811	0.1000	0.0897	
						RPD = 0.10	
21 Acifluorfen							
1	9.543	9.543	0.000	148539275	0.1000	0.0862	
2	9.677	9.677	0.000	397160260	0.1000	0.0789	
						RPD = 8.83	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

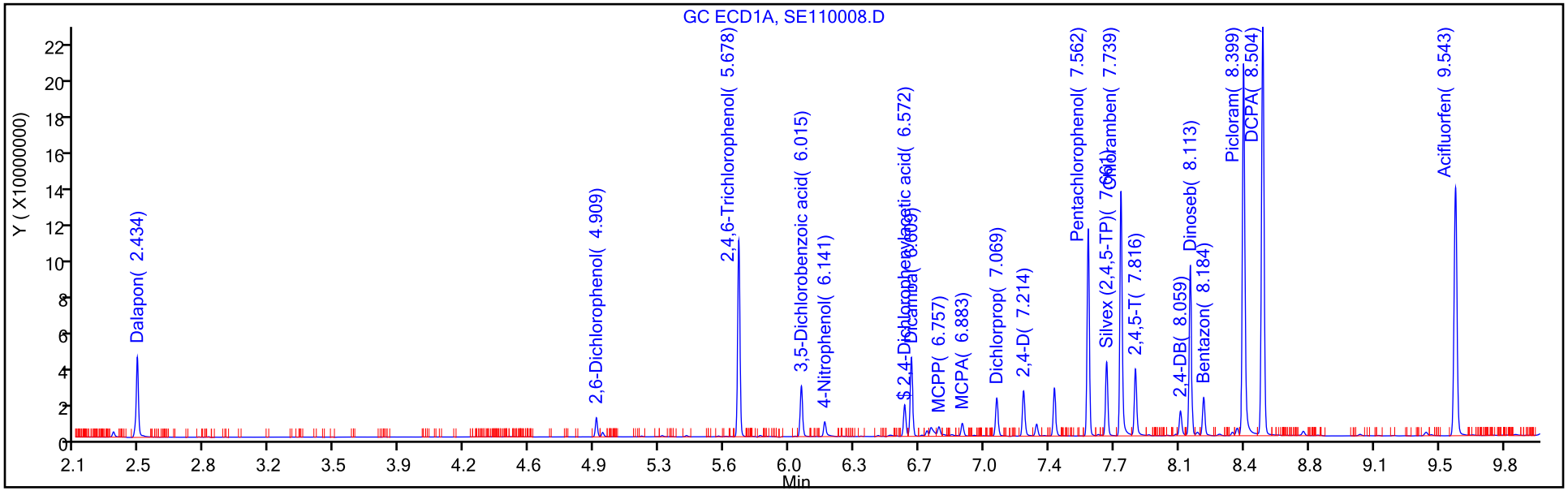
Report Date: 11-May-2018 16:22:53 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

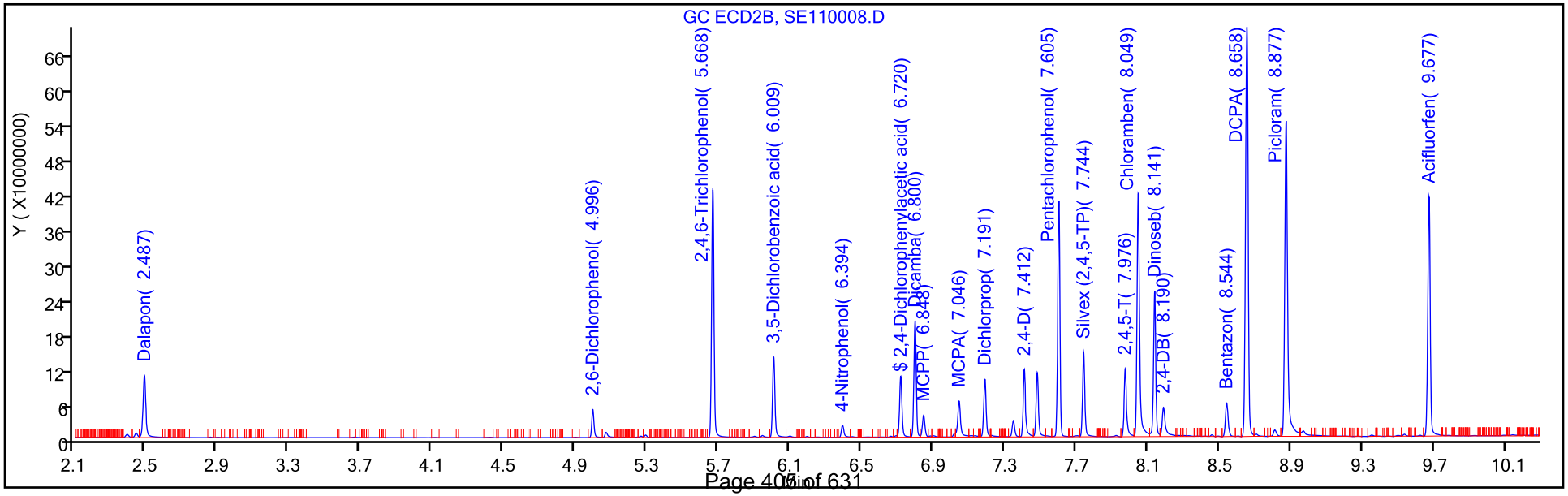
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Injection Date:	11-May-2018 13:05:09	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2018 13:24:48 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:23:04 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.436	2.434	0.002	20866692	0.0500	0.0490	
2	2.487	2.487	0.000	64357695	0.0500	0.0464	
						RPD = 5.43	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	4778853	NC	NC	
2	4.997	4.996	0.001	23332577	NC	NC	
						RPD = 9.56	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	47398750	NC	NC	
2	5.668	5.668	0.000	201332318	NC	NC	
						RPD = 1.40	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	13872381	0.0500	0.0488	
2	6.009	6.009	0.000	69054511	0.0500	0.0450	
						RPD = 8.16	
5 4-Nitrophenol							
1	6.141	6.141	0.000	4870807	0.0500	0.0527	
2	6.395	6.394	0.001	12366861	0.0500	0.0484	
						RPD = 8.42	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	8637049	0.0500	0.0502	
2	6.720	6.720	0.000	53622932	0.0500	0.0469	
						RPD = 6.78	
7 Dicamba							
1	6.608	6.609	-0.001	20817710	0.0250	0.0231	
2	6.800	6.800	0.000	94232129	0.0250	0.0222	
						RPD = 3.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.756	6.757	-0.001	3151900	5.00	5.27	
2	6.848	6.848	0.000	22633447	5.00	5.18	
						RPD = 1.74	
9 MCPA							
1	6.883	6.883	0.000	4041645	5.00	5.35	
2	7.046	7.046	0.000	43466245	5.00	5.27	
						RPD = 1.46	
10 Dichlorprop							
1	7.069	7.069	0.000	10981312	0.0500	0.0477	
2	7.191	7.191	0.000	50621343	0.0500	0.0442	
						RPD = 7.75	
11 2,4-D							
1	7.213	7.214	-0.001	12919675	0.0500	0.0473	
2	7.411	7.412	-0.001	56670134	0.0500	0.0450	
						RPD = 4.94	
12 Pentachlorophenol							
1	7.561	7.562	-0.001	48162705	0.0125	0.0110	
2	7.605	7.605	0.000	173538123	0.0125	0.0111	
						RPD = 0.46	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	17924076	0.0125	0.0112	
2	7.743	7.744	-0.001	63684741	0.0125	0.0105	
						RPD = 6.29	
14 Chloramben							
1	7.739	7.739	0.000	59544203	0.0500	0.0440	
2	8.049	8.049	0.000	208906785	0.0500	0.0441	
						RPD = 0.39	
15 2,4,5-T							
1	7.816	7.816	0.000	17990845	0.0125	0.0116	
2	7.976	7.976	0.000	55311764	0.0125	0.0108	
						RPD = 7.32	
16 2,4-DB							
1	8.059	8.059	0.000	6772708	0.0500	0.0465	
2	8.191	8.190	0.001	35061794	0.0500	0.0482	
						RPD = 3.67	
17 Dinoseb							
1	8.112	8.113	-0.001	40031061	0.0500	0.0441	
2	8.141	8.141	0.000	105727247	0.0500	0.0458	
						RPD = 3.62	
18 Bentazon							
1	8.184	8.184	0.000	10191475	0.0500	0.0461	
2	8.544	8.544	0.000	31859951	0.0500	0.0452	
						RPD = 1.86	
19 Picloram							
1	8.399	8.399	0.000	97726866	0.0500	0.0432	
2	8.876	8.877	-0.001	287961730	0.0500	0.0408	
						RPD = 5.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.502	8.504	-0.002	108476970	0.0500	0.0449	
2	8.657	8.658	-0.001	363162816	0.0500	0.0447	
						RPD = 0.45	
21 Acifluorfen							
1	9.541	9.543	-0.002	75169574	0.0500	0.0452	
2	9.676	9.677	-0.001	182510548	0.0500	0.0461	
						RPD = 1.97	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

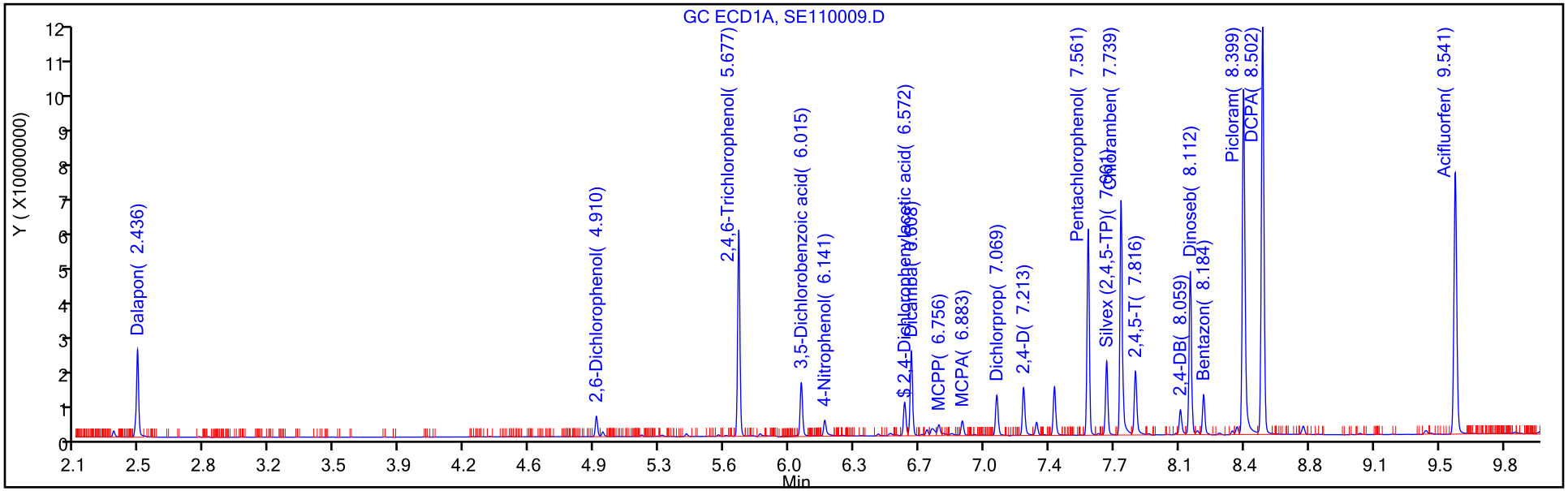
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TestAmerica Savannah

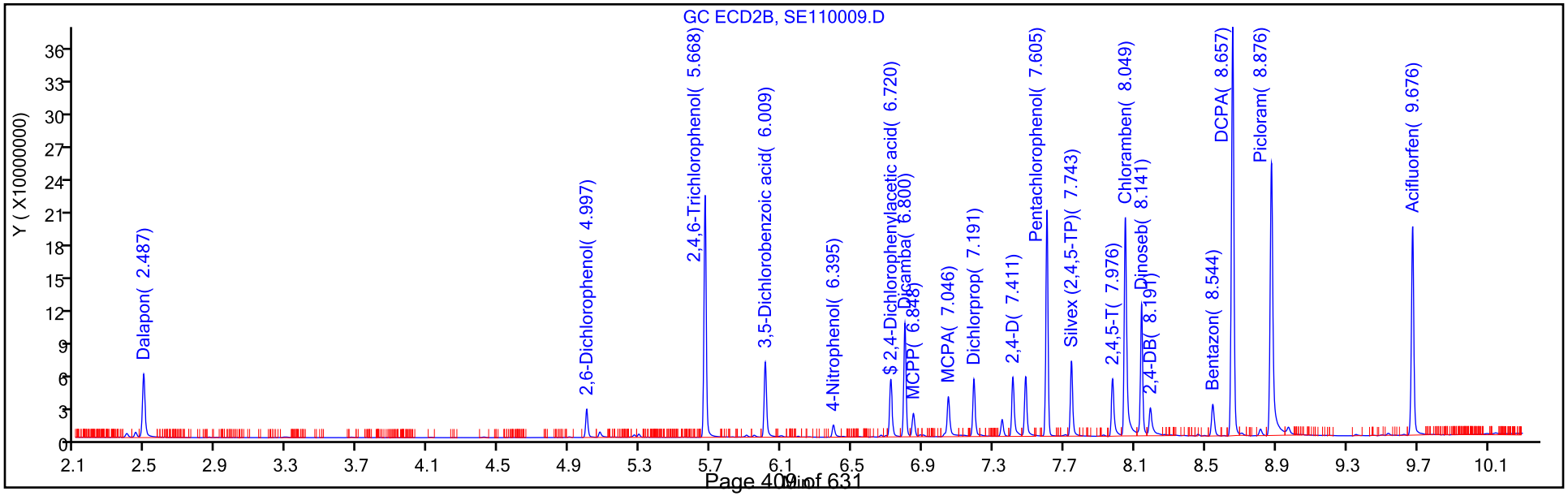
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Injection Date:	11-May-2018 13:24:48	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2018 13:44:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:23:19 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.435	2.434	0.001	10636667	0.0250	0.0255	
2	2.486	2.487	-0.001	32076139	0.0250	0.0231	
						RPD = 9.57	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	2350207	NC	NC	
2	4.997	4.996	0.001	11844418	NC	NC	
						RPD = 3.12	
3 2,4,6-Trichlorophenol							
1	5.678	5.678	0.000	21271269	NC	NC	
2	5.669	5.668	0.001	90591973	NC	NC	
						RPD = 1.13	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	6486938	0.0250	0.0228	
2	6.010	6.009	0.001	32970058	0.0250	0.0215	
						RPD = 6.08	
5 4-Nitrophenol							
1	6.144	6.141	0.003	2039867	0.0250	0.0221	
2	6.396	6.394	0.002	5603900	0.0250	0.0219	
						RPD = 0.54	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.573	6.572	0.001	4102855	0.0250	0.0239	
2	6.721	6.720	0.001	24918814	0.0250	0.0218	
						RPD = 8.98	
7 Dicamba							
1	6.609	6.609	0.000	9645690	0.0125	0.0107	
2	6.800	6.800	0.000	43185212	0.0125	0.0102	
						RPD = 4.90	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	1331377	2.50	2.23	
2	6.849	6.848	0.001	11960487	2.50	2.29	
						RPD = 2.66	
9 MCPA							
1	6.884	6.883	0.001	1929514	2.50	2.21	
2	7.048	7.046	0.002	22165214	2.50	2.27	
						RPD = 2.83	
10 Dichlorprop							
1	7.070	7.069	0.001	5256013	0.0250	0.0228	
2	7.192	7.191	0.001	25683211	0.0250	0.0224	
						RPD = 1.93	
11 2,4-D							
1	7.215	7.214	0.001	6252962	0.0250	0.0229	
2	7.413	7.412	0.001	26250068	0.0250	0.0209	
						RPD = 9.33	
12 Pentachlorophenol							
1	7.562	7.562	0.000	21666620	0.006250	0.004956	
2	7.605	7.605	0.000	76363785	0.006250	0.004871	
						RPD = 1.75	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	8165417	0.006250	0.005116	
2	7.745	7.744	0.001	29112863	0.006250	0.004821	
						RPD = 5.94	
14 Chloramben							
1	7.740	7.739	0.001	26686021	0.0250	0.0197	
2	8.050	8.049	0.001	93206115	0.0250	0.0197	
						RPD = 0.05	
15 2,4,5-T							
1	7.818	7.816	0.002	8450464	0.006250	0.005448	
2	7.977	7.976	0.001	25357515	0.006250	0.004942	
						RPD = 9.74	
16 2,4-DB							
1	8.060	8.059	0.001	3235647	0.0250	0.0222	
2	8.192	8.190	0.002	16541201	0.0250	0.0227	
						RPD = 2.41	
17 Dinoseb							
1	8.113	8.113	0.000	17944898	0.0250	0.0198	
2	8.141	8.141	0.000	44543235	0.0250	0.0264	
						RPD = 28.58	
18 Bentazon							
1	8.185	8.184	0.001	4925430	0.0250	0.0223	
2	8.545	8.544	0.001	15434944	0.0250	0.0219	
						RPD = 1.62	
19 Picloram							
1	8.401	8.399	0.002	42654843	0.0250	0.0189	
2	8.877	8.877	0.000	118110292	0.0250	0.0222	
						RPD = 16.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.503	8.504	-0.001	49421367	0.0250	0.0205	
2	8.657	8.658	-0.001	161482853	0.0250	0.0199	
						RPD = 2.88	
21 Acifluorfen							
1	9.543	9.543	0.000	31521813	0.0250	0.0200	
2	9.677	9.677	0.000	70468139	0.0250	0.0287	
						RPD = 35.77	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

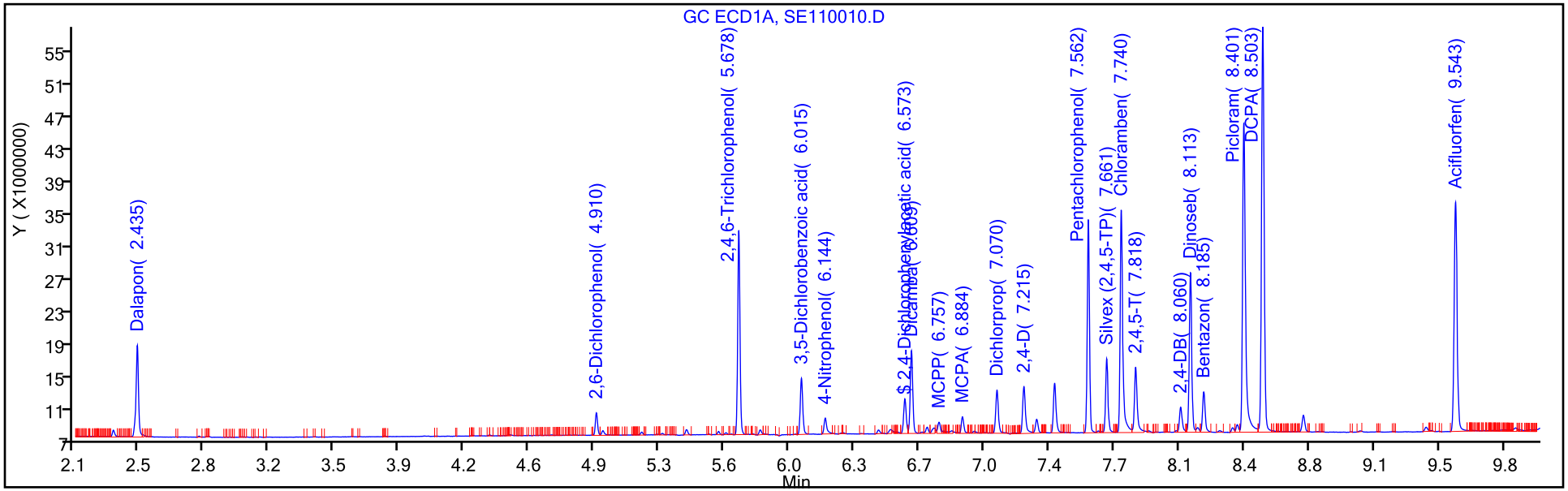
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TestAmerica Savannah

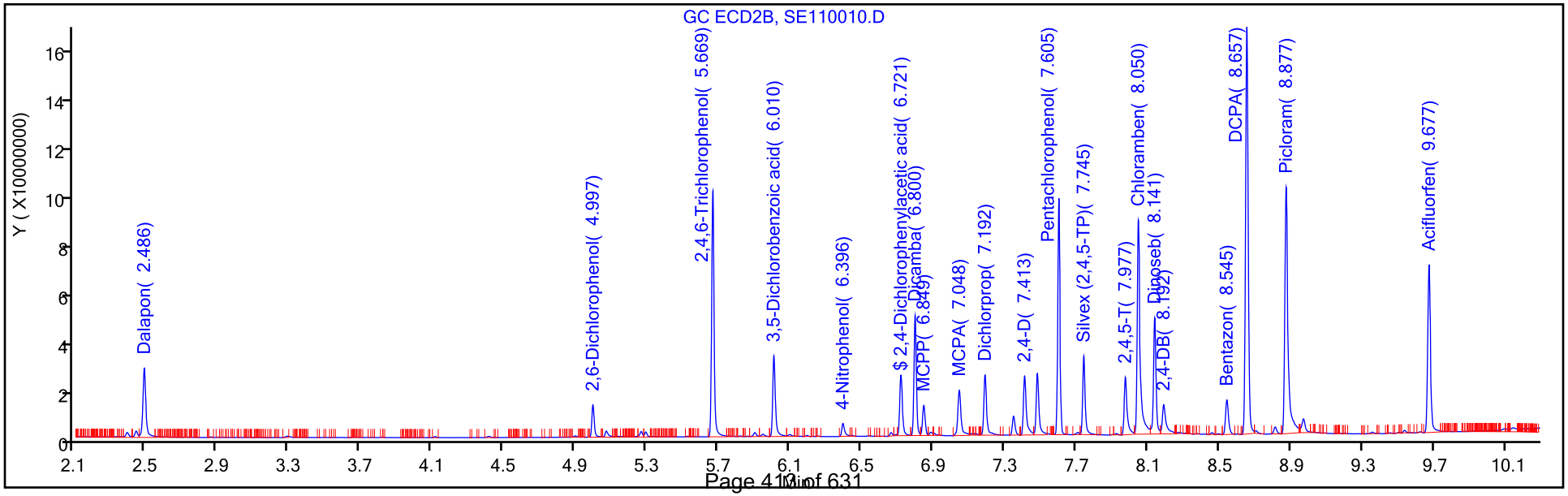
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110010.D

Injection Date:	11-May-2018 13:44:30	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2018 14:04:11 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 16:22:08 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 11-May-2018 16:20:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.439	2.434	0.005	6581903	0.0100	0.0161	
2	2.491	2.487	0.004	18041326	0.0100	0.0130	
						RPD = 21.37	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	1371251	NC	NC	
2	4.997	4.996	0.001	6784740	NC	NC	
						RPD = 17.58	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	11180842	NC	NC	
2	5.667	5.668	-0.001	47838983	NC	NC	
						RPD = 0.67	
4 3,5-Dichlorobenzoic acid							
1	6.015	6.015	0.000	3593919	0.0100	0.0127	
2	6.010	6.009	0.001	18292581	0.0100	0.0119	
						RPD = 5.93	
5 4-Nitrophenol							
1	6.144	6.141	0.003	1166828	0.0100	0.0126	
2	6.397	6.394	0.003	3194768	0.0100	0.0125	
						RPD = 0.88	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	2379510	0.0100	0.0138	
2	6.722	6.720	0.002	14177101	0.0100	0.0124	
						RPD = 10.89	
7 Dicamba							
1	6.608	6.609	-0.001	5341278	0.005000	0.005917	
2	6.800	6.800	0.000	23704598	0.005000	0.005585	
						RPD = 5.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.757	6.757	0.000	593694	1.00	0.99	
2	6.849	6.848	0.001	7413369	1.00	1.05	
						RPD = 5.94	
9 MCPA							
1	6.883	6.883	0.000	1032647	1.00	0.8775	
2	7.048	7.046	0.002	13307227	1.00	1.03	
						RPD = 15.72	
10 Dichlorprop							
1	7.070	7.069	0.001	2994953	0.0100	0.0130	
2	7.192	7.191	0.001	16334415	0.0100	0.0142	
						RPD = 9.06	
11 2,4-D							
1	7.215	7.214	0.001	3282293	0.0100	0.0120	
2	7.413	7.412	0.001	14413840	0.0100	0.0114	
						RPD = 4.83	
12 Pentachlorophenol							
1	7.562	7.562	0.000	11166313	0.002500	0.002554	
2	7.605	7.605	0.000	39948581	0.002500	0.002548	
						RPD = 0.25	
13 Silvex (2,4,5-TP)							
1	7.662	7.661	0.001	4257146	0.002500	0.002667	
2	7.744	7.744	0.000	15326717	0.002500	0.002538	
						RPD = 4.97	
14 Chloramben							
1	7.740	7.739	0.001	13202807	0.0100	0.009748	
2	8.050	8.049	0.001	46864588	0.0100	0.0099	
						RPD = 1.56	
15 2,4,5-T							
1	7.817	7.816	0.001	4350302	0.002500	0.002805	
2	7.977	7.976	0.001	13726331	0.002500	0.002675	
						RPD = 4.73	
16 2,4-DB							
1	8.061	8.059	0.002	1732409	0.0100	0.0119	
2	8.192	8.190	0.002	7931034	0.0100	0.0109	
						RPD = 8.62	
17 Dinoseb							
1	8.112	8.113	-0.001	9609463	0.0100	0.0106	
2	8.141	8.141	0.000	23285232	0.0100	0.0196	
						RPD = 59.77	
18 Bentazon							
1	8.185	8.184	0.001	2811902	0.0100	0.0127	
2	8.544	8.544	0.000	8350330	0.0100	0.0119	
						RPD = 6.99	
19 Picloram							
1	8.401	8.399	0.002	21523000	0.0100	0.009513	
2	8.877	8.877	0.000	60007266	0.0100	0.0158	
						RPD = 49.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.502	8.504	-0.002	25166958	0.0100	0.0104	
2	8.657	8.658	-0.001	81828951	0.0100	0.0101	
						RPD = 3.37	
21 Acifluorfen							
1	9.541	9.543	-0.002	16684062	0.0100	0.0113	
2	9.677	9.677	0.000	36263377	0.0100	0.0234	
						RPD = 69.68	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

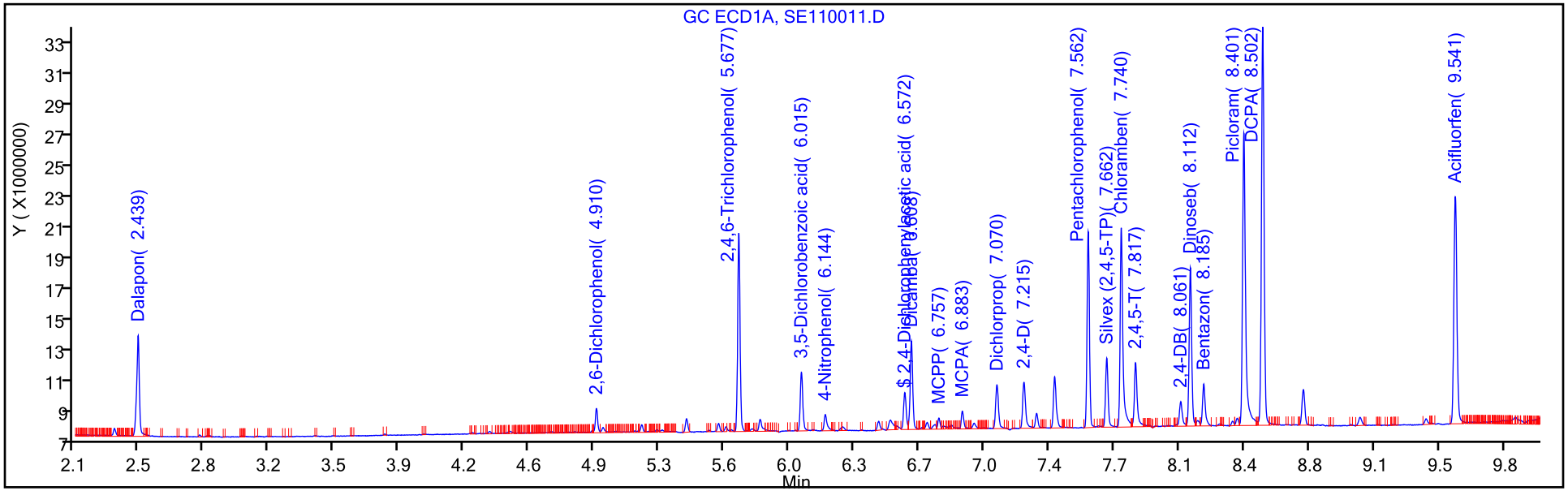
Report Date: 11-May-2018 16:22:10 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

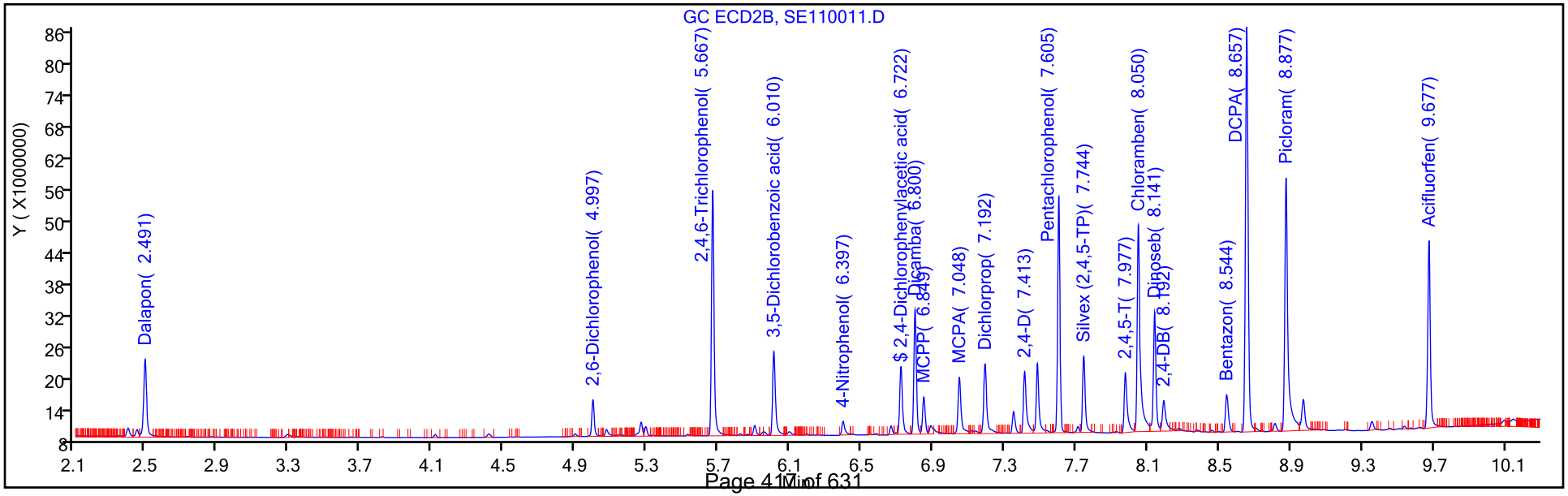
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Injection Date:	11-May-2018 14:04:11	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Calibration / Dalapon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

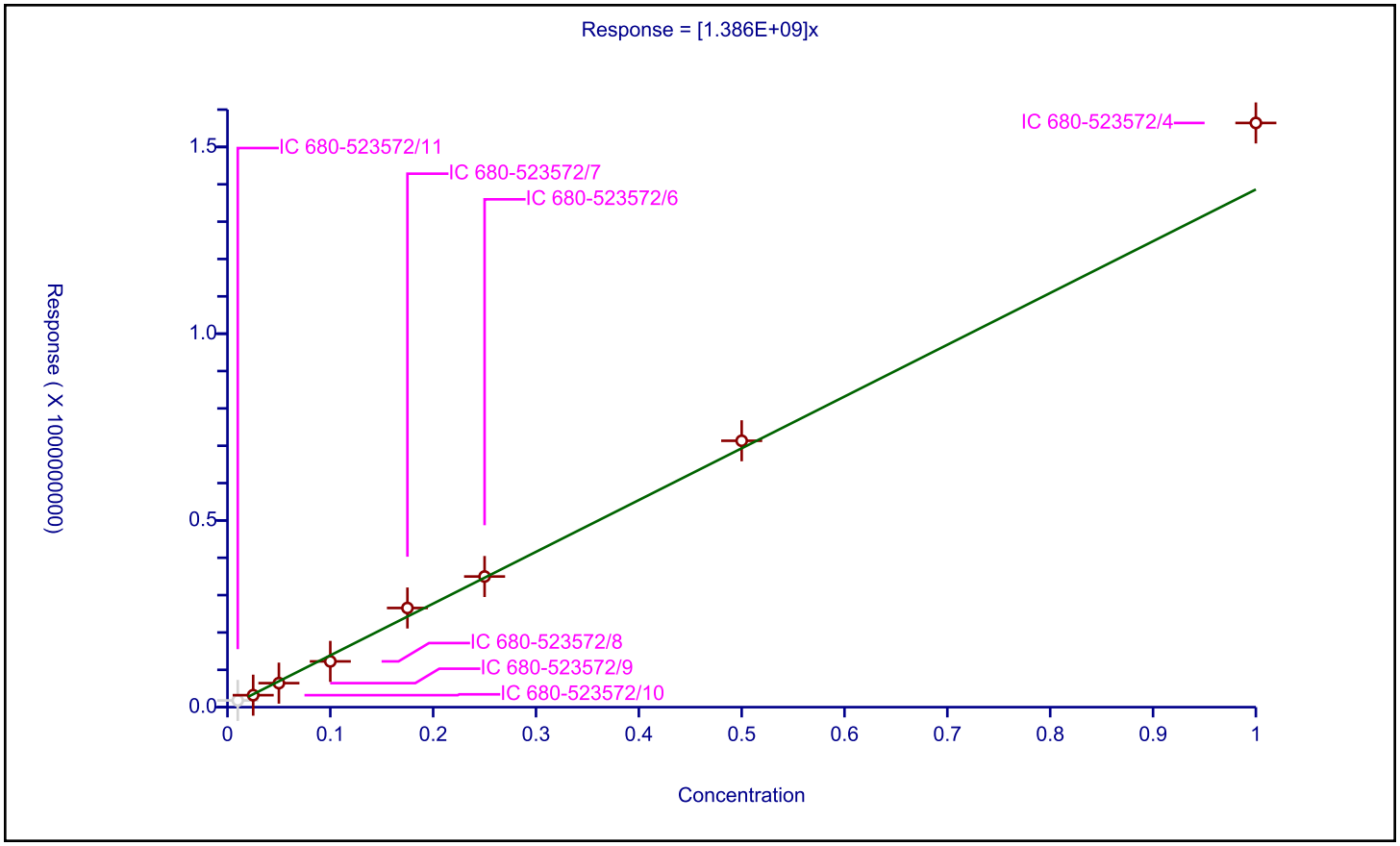
Curve Coefficients

Intercept:	0
Slope:	1.386E+09

Error Coefficients

Standard Error:	74100000
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	18041326.0			1804132600.0	N
2	IC 680-523572/10	0.025	32076139.0			1283045560.0	Y
3	IC 680-523572/9	0.05	64357695.0			1287153900.0	Y
4	IC 680-523572/8	0.1	122554551.0			1225545510.0	Y
5	IC 680-523572/7	0.175	265579123.0			1517594988.57143	Y
6	IC 680-523572/6	0.25	349811806.0			1399247224.0	Y
7	IC 680-523572/5	0.5	713286748.0			1426573496.0	Y
8	IC 680-523572/4	1.0	1564268680.0			1564268680.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

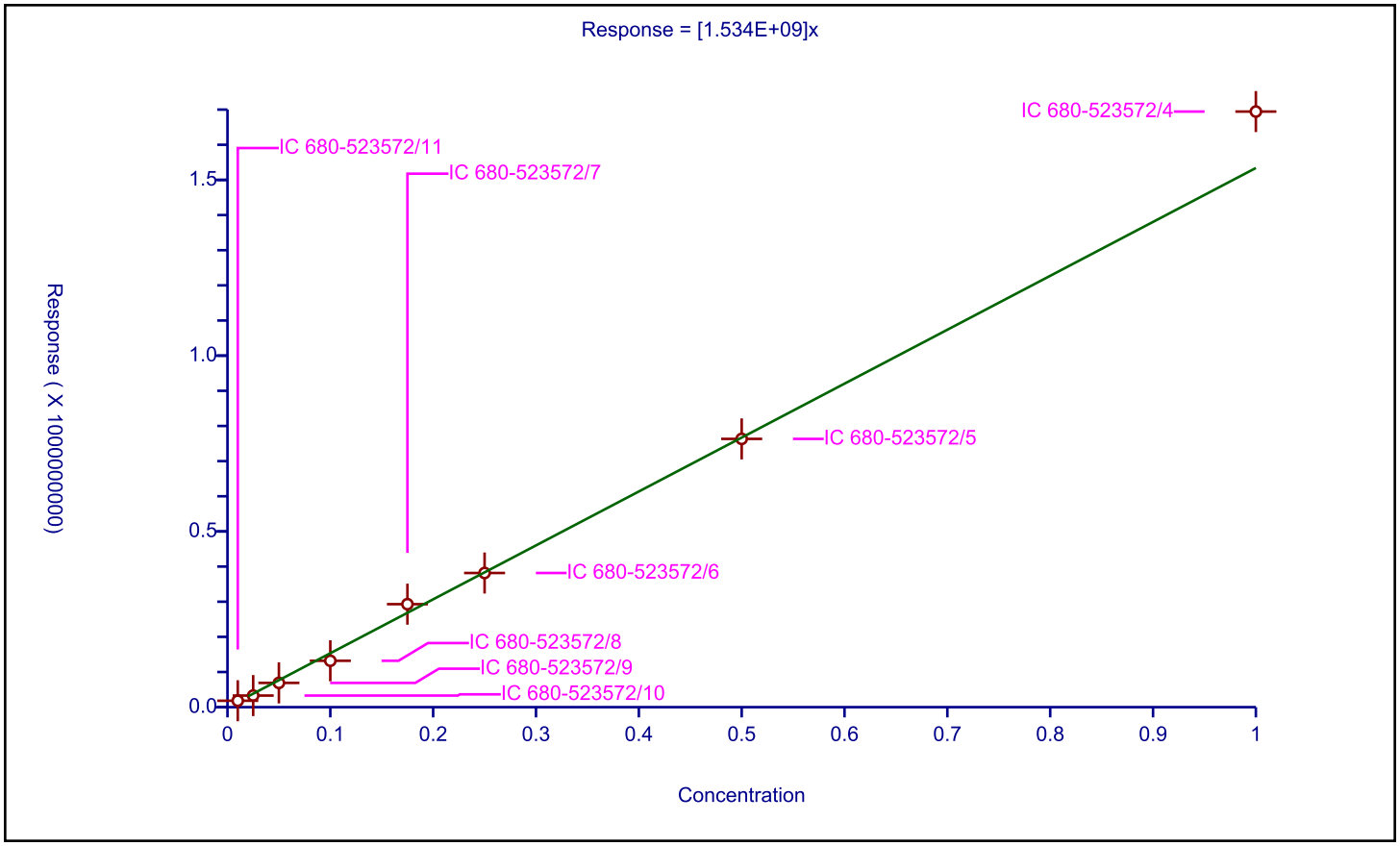
Curve Coefficients

Intercept:	0
Slope:	1.534E+09

Error Coefficients

Standard Error:	62000000
Relative Standard Error:	12.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	18292581.0			1829258100.0	Y
2	IC 680-523572/10	0.025	32970058.0			1318802320.0	Y
3	IC 680-523572/9	0.05	69054511.0			1381090220.0	Y
4	IC 680-523572/8	0.1	132008139.0			1320081390.0	Y
5	IC 680-523572/7	0.175	293024588.0			1674426217.14286	Y
6	IC 680-523572/6	0.25	381708442.0			1526833768.0	Y
7	IC 680-523572/5	0.5	763230217.0			1526460434.0	Y
8	IC 680-523572/4	1.0	1694404983.0			1694404983.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

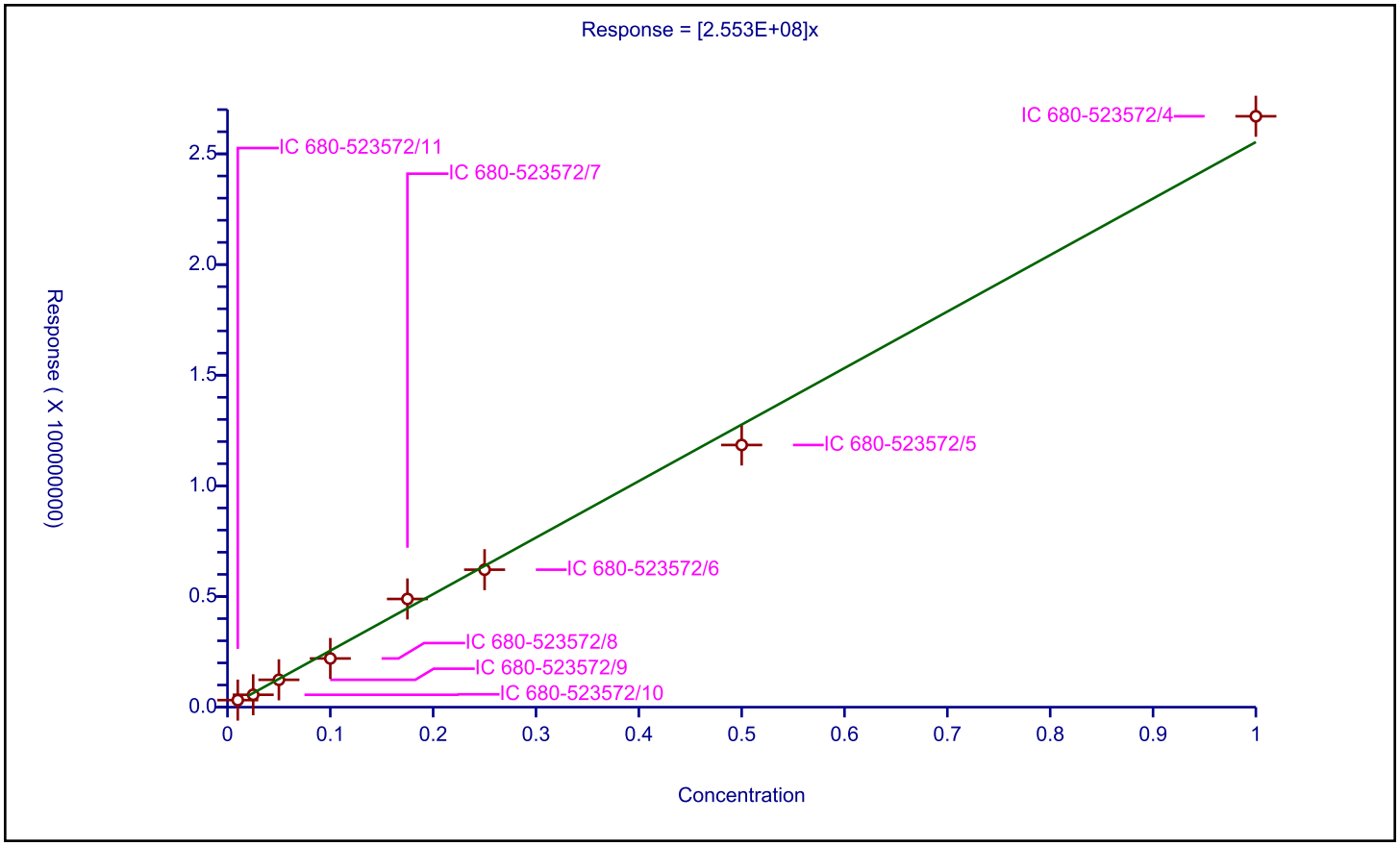
Curve Coefficients

Intercept:	0
Slope:	2.553E+08

Error Coefficients

Standard Error:	6030000
Relative Standard Error:	12.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	3194768.0			319476800.0	Y
2	IC 680-523572/10	0.025	5603900.0			224156000.0	Y
3	IC 680-523572/9	0.05	12366861.0			247337220.0	Y
4	IC 680-523572/8	0.1	22006274.0			220062740.0	Y
5	IC 680-523572/7	0.175	48885059.0			279343194.285714	Y
6	IC 680-523572/6	0.25	62120881.0			248483524.0	Y
7	IC 680-523572/5	0.5	118457210.0			236914420.0	Y
8	IC 680-523572/4	1.0	266999376.0			266999376.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

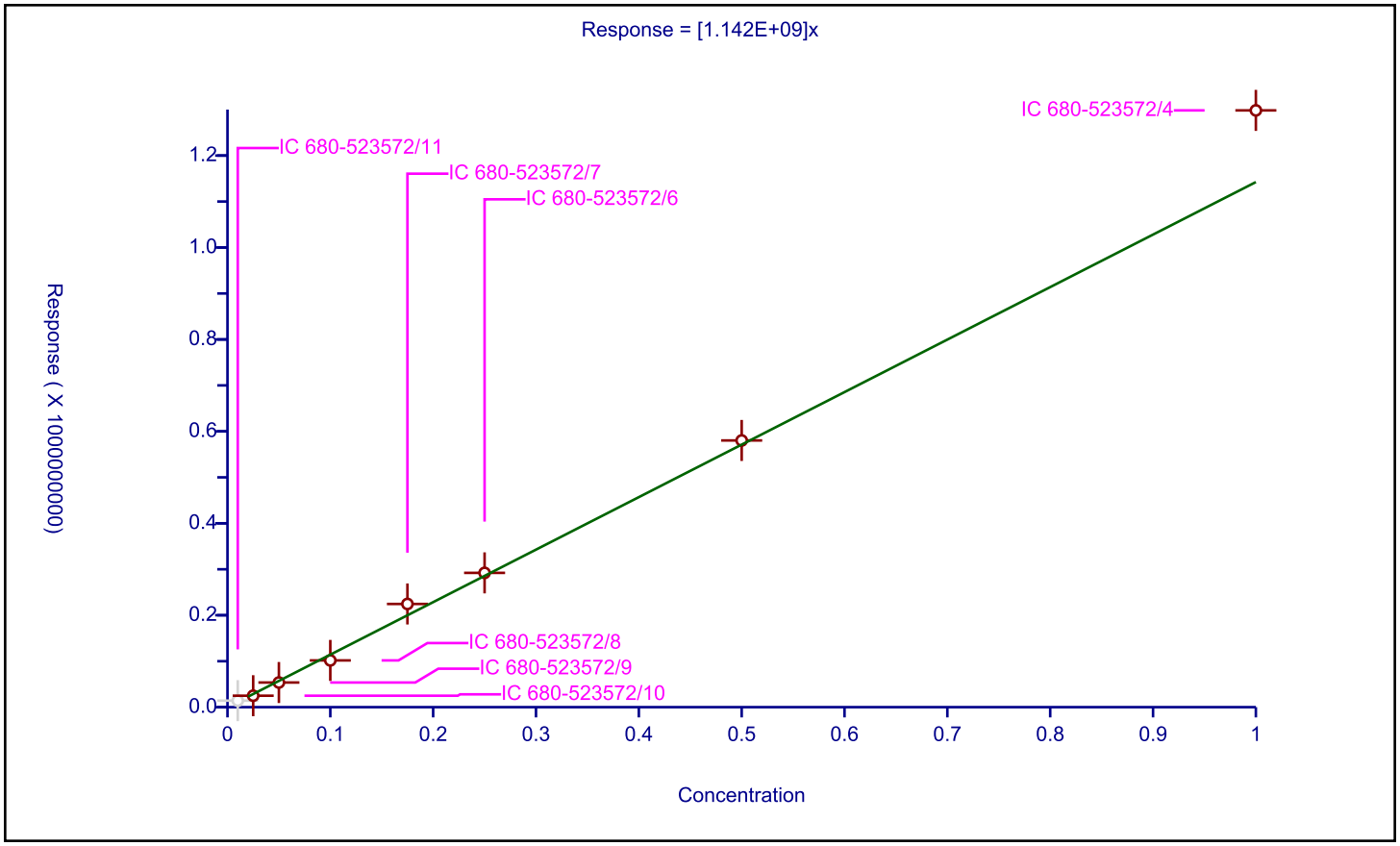
Curve Coefficients

Intercept:	0
Slope:	1.142E+09

Error Coefficients

Standard Error:	64800000
Relative Standard Error:	10.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	14177101.0			1417710100.0	N
2	IC 680-523572/10	0.025	24918814.0			996752560.0	Y
3	IC 680-523572/9	0.05	53622932.0			1072458640.0	Y
4	IC 680-523572/8	0.1	101682600.0			1016826000.0	Y
5	IC 680-523572/7	0.175	224534201.0			1283052577.14286	Y
6	IC 680-523572/6	0.25	292178575.0			1168714300.0	Y
7	IC 680-523572/5	0.5	580202590.0			1160405180.0	Y
8	IC 680-523572/4	1.0	1298301676.0			1298301676.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

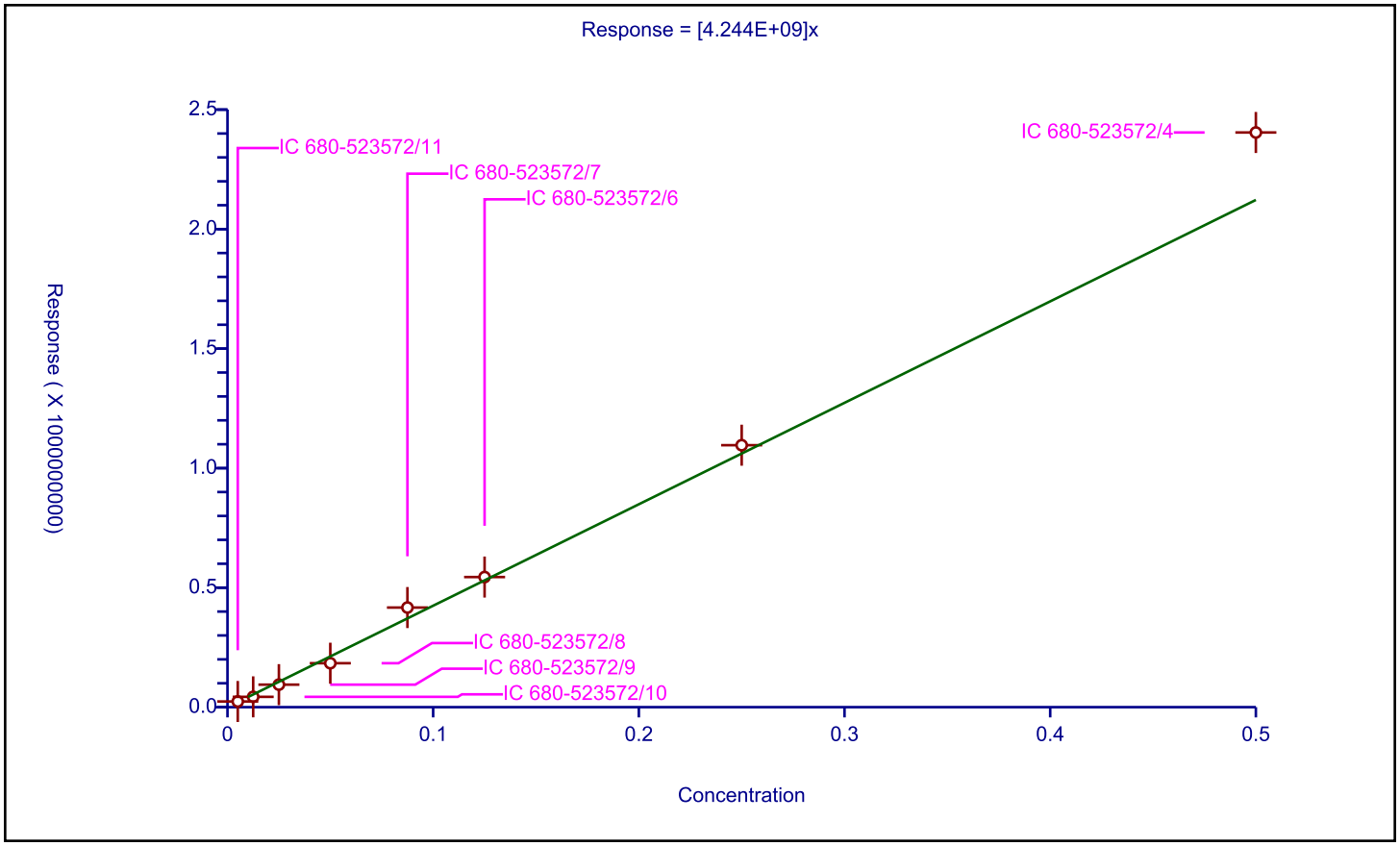
Curve Coefficients

Intercept:	0
Slope:	4.244E+09

Error Coefficients

Standard Error:	110000000
Relative Standard Error:	12.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.005	23704598.0			4740919600.0	Y
2	IC 680-523572/10	0.0125	43185212.0			3454816960.0	Y
3	IC 680-523572/9	0.025	94232129.0			3769285160.0	Y
4	IC 680-523572/8	0.05	183882413.0			3677648260.0	Y
5	IC 680-523572/7	0.0875	416741253.0			4762757177.14286	Y
6	IC 680-523572/6	0.125	544423487.0			4355387896.0	Y
7	IC 680-523572/5	0.25	1095984345.0			4383937380.0	Y
8	IC 680-523572/4	0.5	2404283458.0			4808566916.0	Y



Calibration / MCPP

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

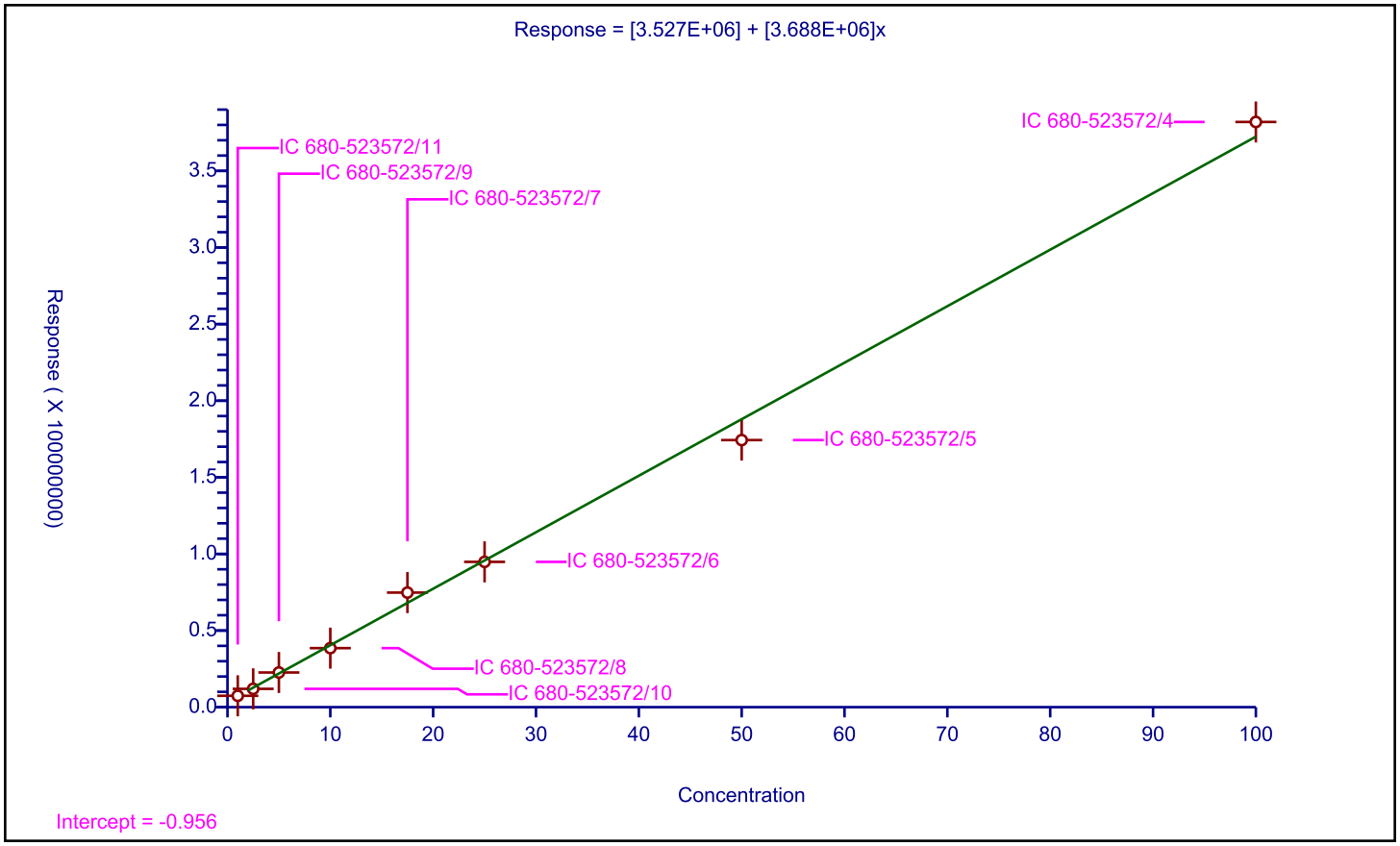
Curve Coefficients

Intercept:	3.527E+06
Slope:	3.688E+06

Error Coefficients

Standard Error:	7400000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	1.0	7413369.0			7413369.0	Y
2	IC 680-523572/10	2.5	11960487.0			4784194.8	Y
3	IC 680-523572/9	5.0	22633447.0			4526689.4	Y
4	IC 680-523572/8	10.0	38524610.0			3852461.0	Y
5	IC 680-523572/7	17.5	74790568.0			4273746.742857	Y
6	IC 680-523572/6	25.0	94830943.0			3793237.72	Y
7	IC 680-523572/5	50.0	174315420.0			3486308.4	Y
8	IC 680-523572/4	100.0	381942979.0			3819429.79	Y



Calibration / MCPA

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

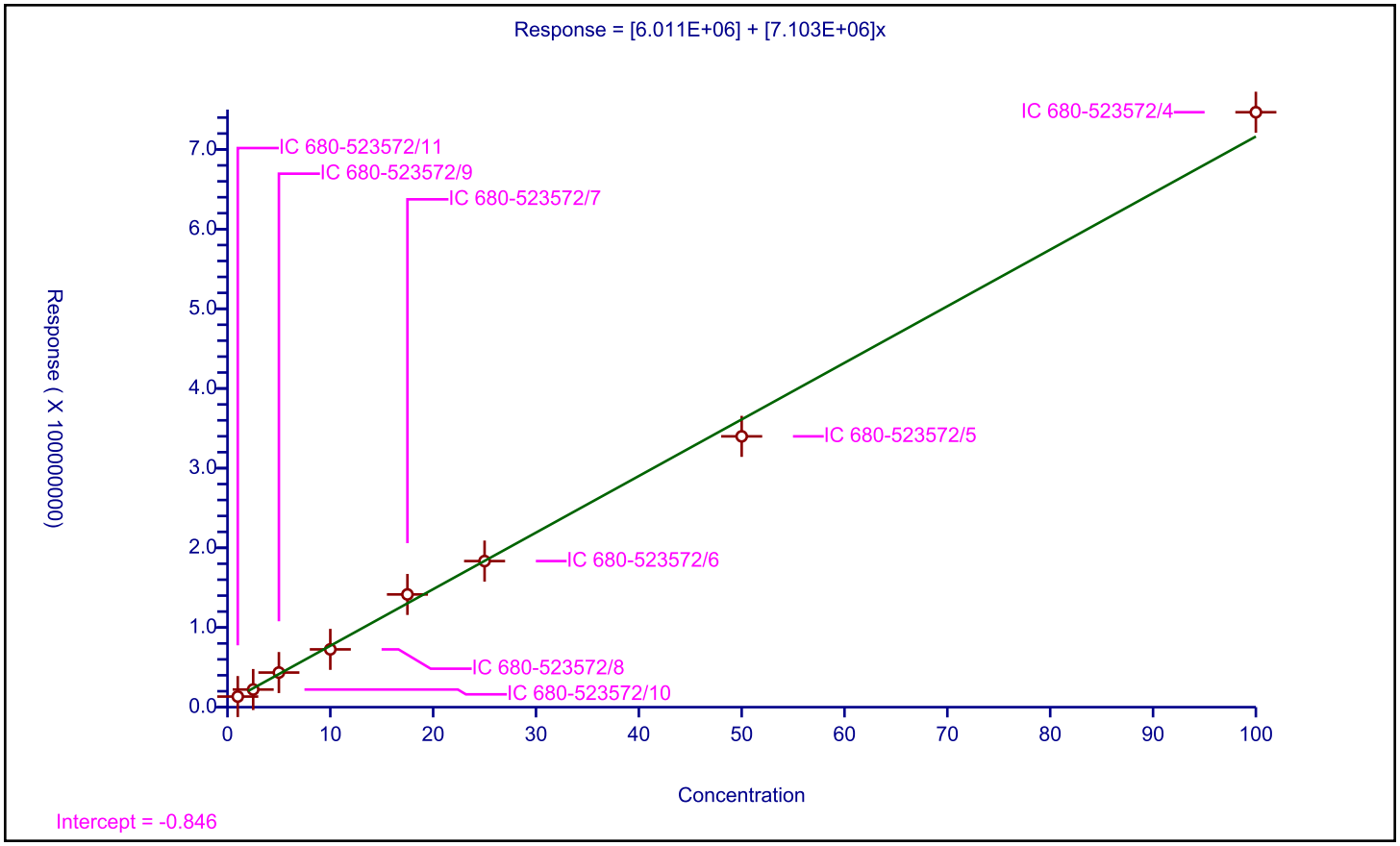
Curve Coefficients

Intercept:	6.011E+06
Slope:	7.103E+06

Error Coefficients

Standard Error:	16000000
Relative Standard Error:	7.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	1.0	13307227.0			13307227.0	Y
2	IC 680-523572/10	2.5	22165214.0			8866085.6	Y
3	IC 680-523572/9	5.0	43466245.0			8693249.0	Y
4	IC 680-523572/8	10.0	72537648.0			7253764.8	Y
5	IC 680-523572/7	17.5	141491800.0			8085245.714286	Y
6	IC 680-523572/6	25.0	183361188.0			7334447.52	Y
7	IC 680-523572/5	50.0	339905374.0			6798107.48	Y
8	IC 680-523572/4	100.0	746688222.0			7466882.22	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

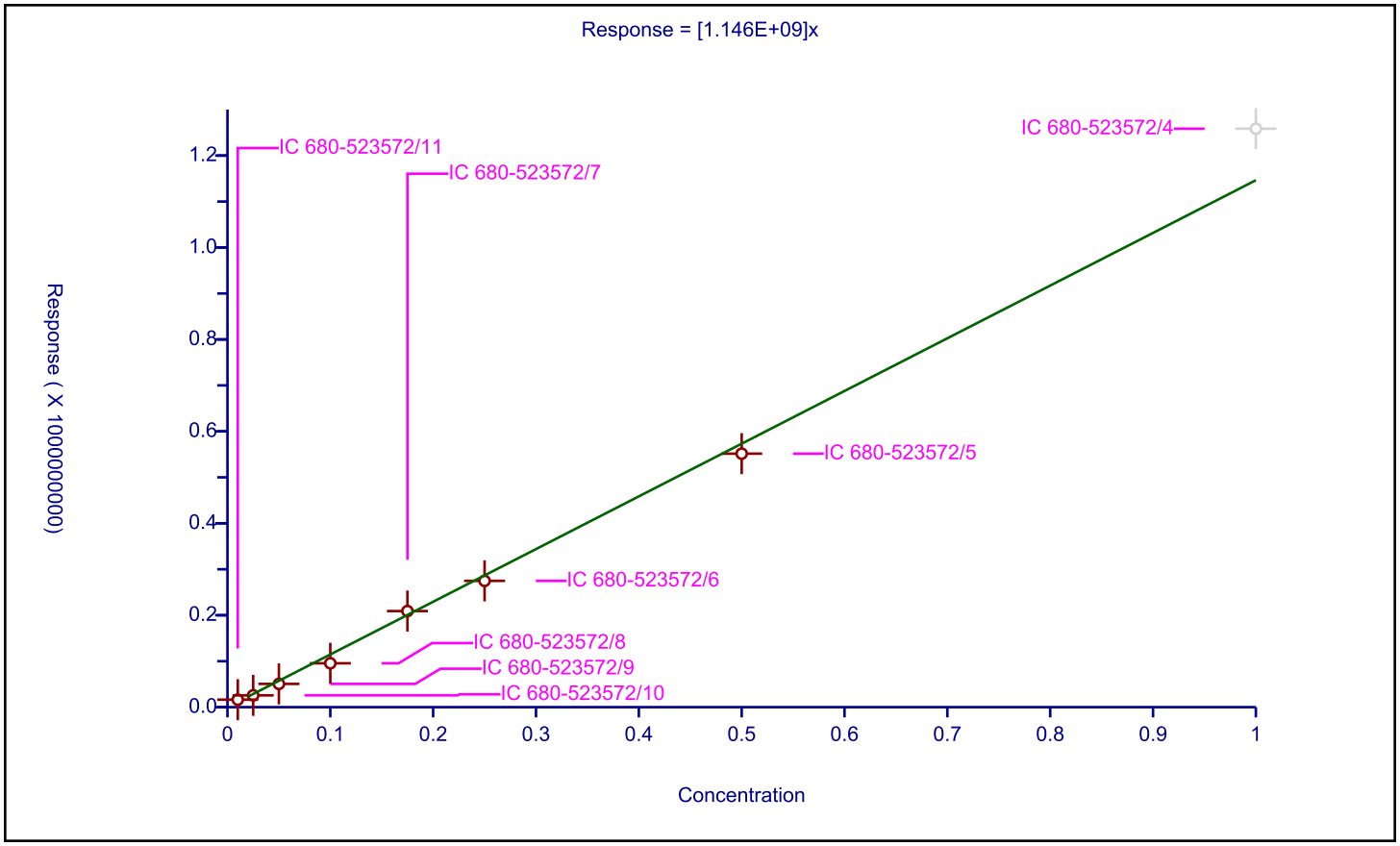
Curve Coefficients

Intercept:	0
Slope:	1.146E+09

Error Coefficients

Standard Error:	13700000
Relative Standard Error:	19.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.930

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	16334415.0			1633441500.0	Y
2	IC 680-523572/10	0.025	25683211.0			1027328440.0	Y
3	IC 680-523572/9	0.05	50621343.0			1012426860.0	Y
4	IC 680-523572/8	0.1	95482366.0			954823660.0	Y
5	IC 680-523572/7	0.175	209080697.0			1194746840.0	Y
6	IC 680-523572/6	0.25	274754281.0			1099017124.0	Y
7	IC 680-523572/5	0.5	551527466.0			1103054932.0	Y
8	IC 680-523572/4	1.0	1258500696.0			1258500696.0	N



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

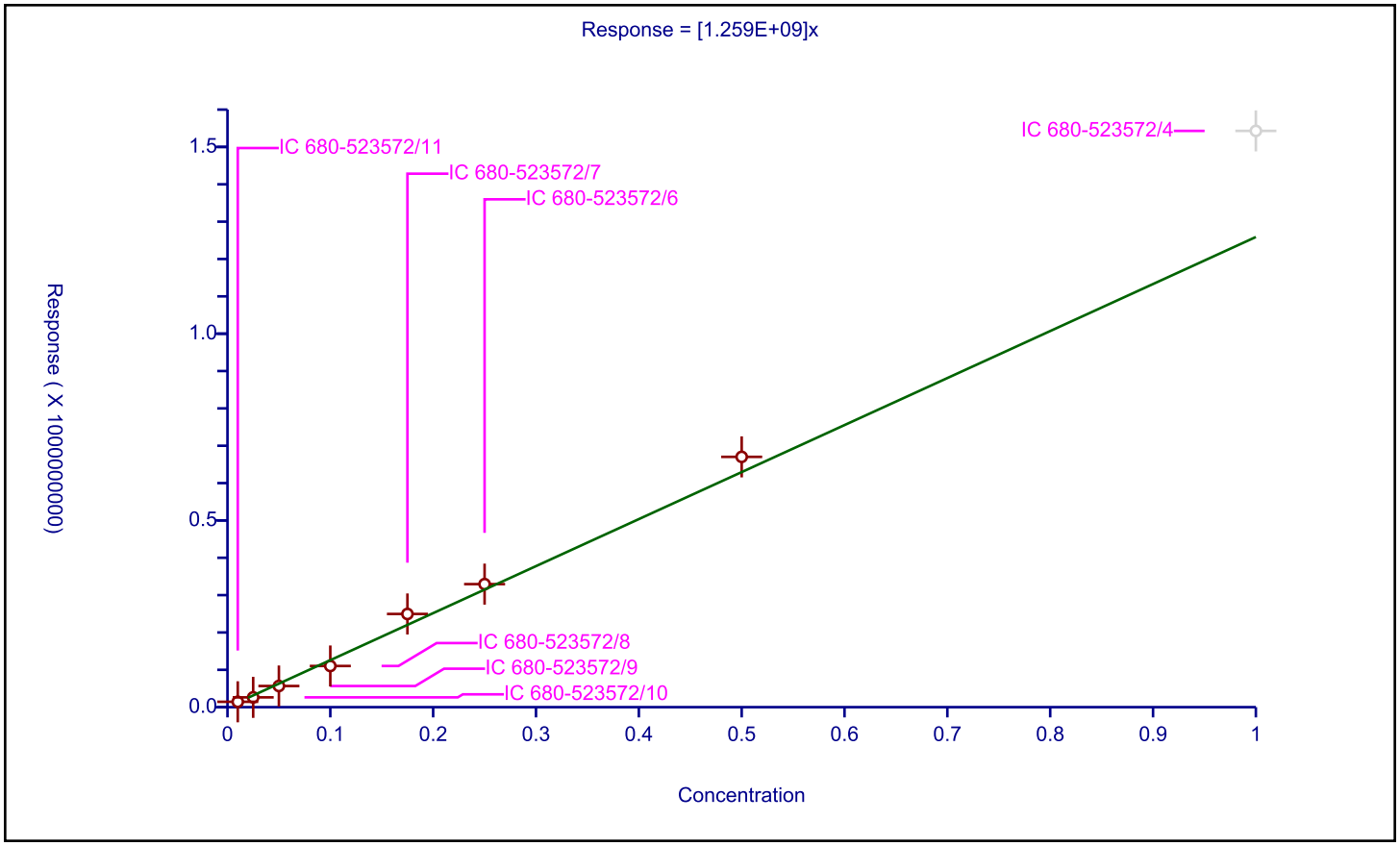
Curve Coefficients

Intercept:	0
Slope:	1.259E+09

Error Coefficients

Standard Error:	22500000
Relative Standard Error:	12.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	14413840.0			1441384000.0	Y
2	IC 680-523572/10	0.025	26250068.0			1050002720.0	Y
3	IC 680-523572/9	0.05	56670134.0			1133402680.0	Y
4	IC 680-523572/8	0.1	110280549.0			1102805490.0	Y
5	IC 680-523572/7	0.175	249572099.0			1426126280.0	Y
6	IC 680-523572/6	0.25	329478639.0			1317914556.0	Y
7	IC 680-523572/5	0.5	670180977.0			1340361954.0	Y
8	IC 680-523572/4	1.0	1543015821.0			1543015821.0	N



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

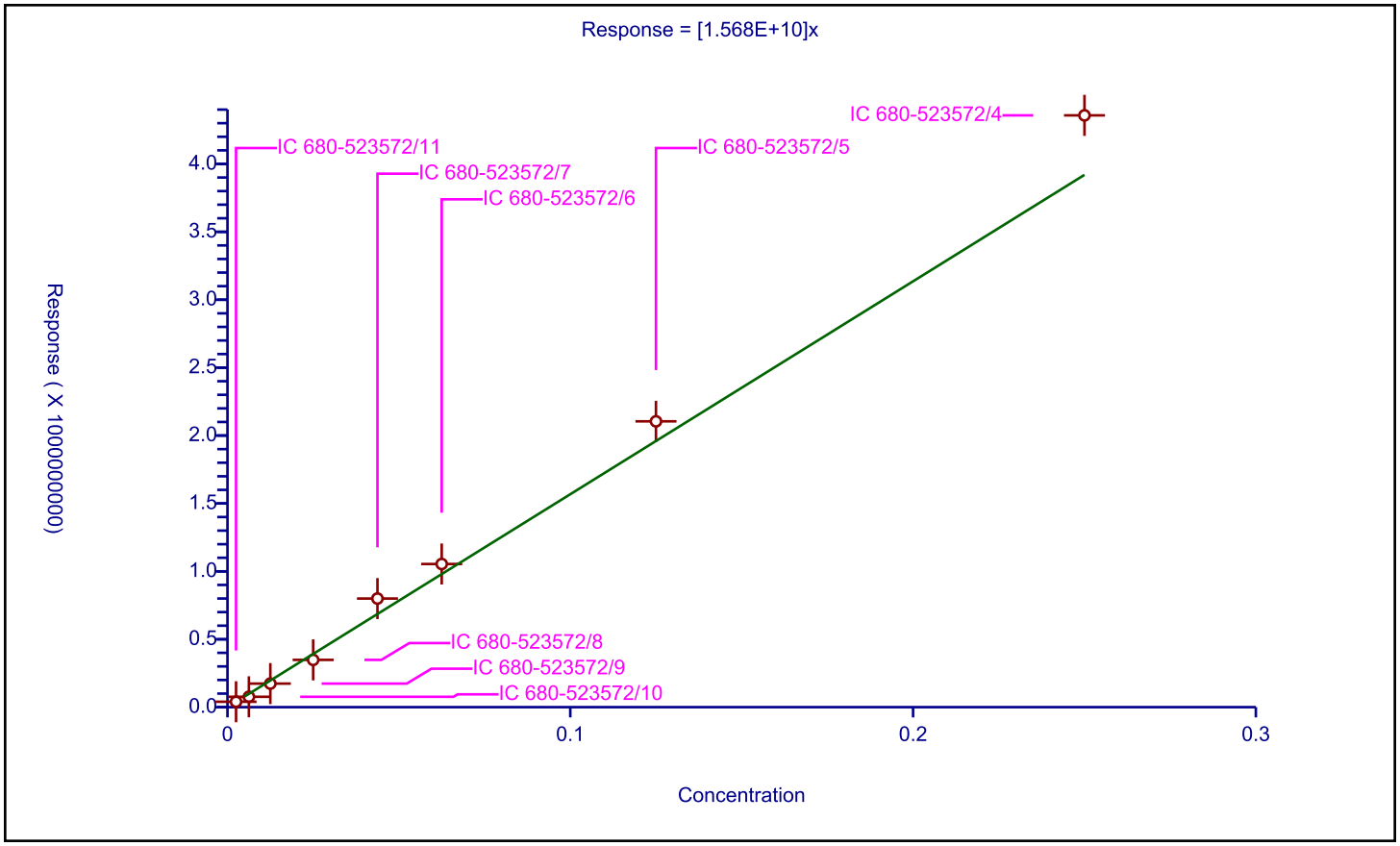
Curve Coefficients

Intercept:	0
Slope:	1.568E+10

Error Coefficients

Standard Error:	183000000
Relative Standard Error:	13.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.0025	39948581.0			15979432400.0	Y
2	IC 680-523572/10	0.00625	76363785.0			12218205600.0	Y
3	IC 680-523572/9	0.0125	173538123.0			13883049840.0	Y
4	IC 680-523572/8	0.025	348275036.0			13931001440.0	Y
5	IC 680-523572/7	0.04375	799764932.0			18280341302.8571	Y
6	IC 680-523572/6	0.0625	1054239941.0			16867839056.0	Y
7	IC 680-523572/5	0.125	2104701924.0			16837615392.0	Y
8	IC 680-523572/4	0.25	4357611017.0			17430444068.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

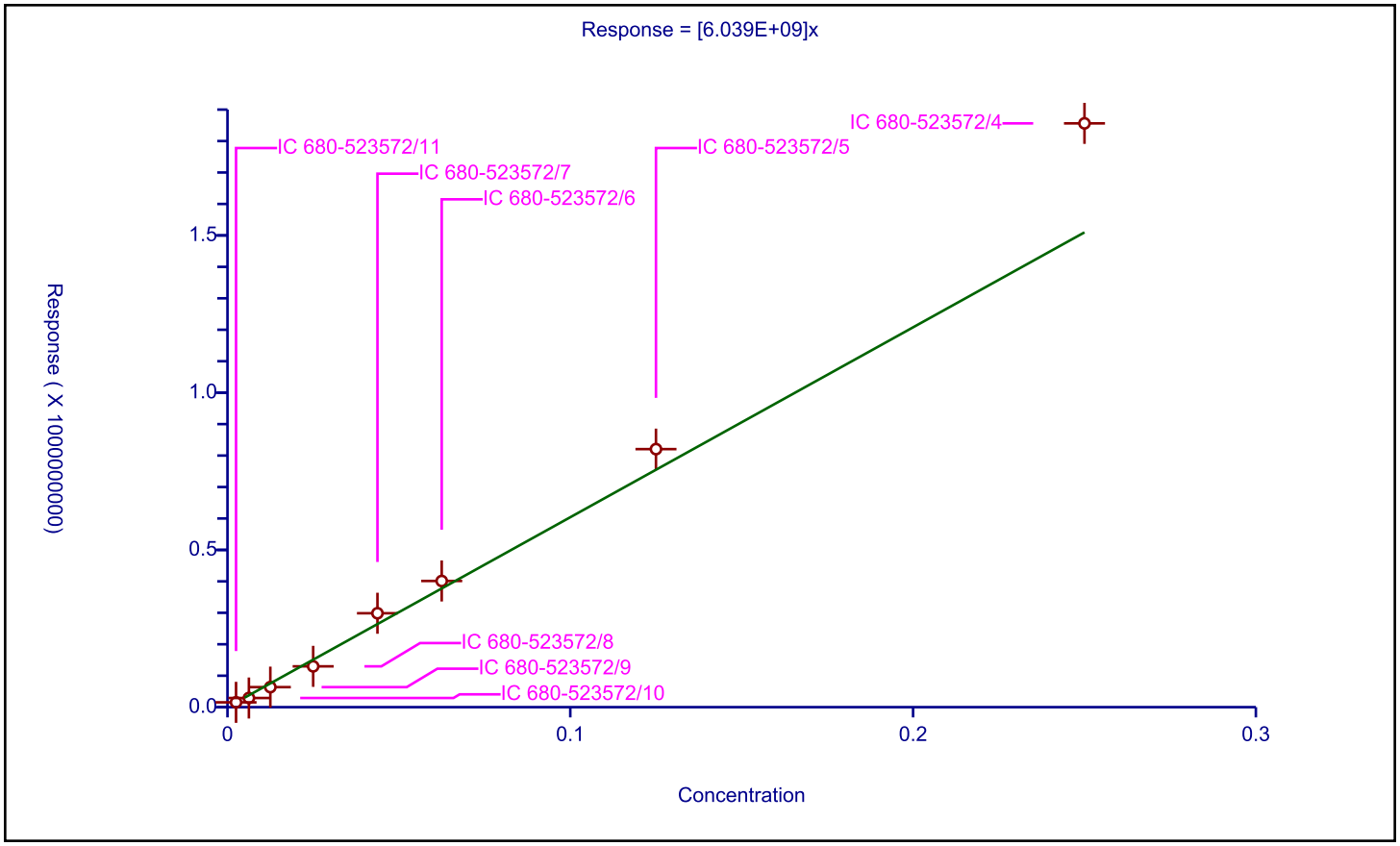
Curve Coefficients

Intercept:	0
Slope:	6.039E+09

Error Coefficients

Standard Error:	135000000
Relative Standard Error:	15.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.0025	15326717.0			6130686800.0	Y
2	IC 680-523572/10	0.00625	29112863.0			4658058080.0	Y
3	IC 680-523572/9	0.0125	63684741.0			5094779280.0	Y
4	IC 680-523572/8	0.025	129809387.0			5192375480.0	Y
5	IC 680-523572/7	0.04375	298650918.0			6826306697.14286	Y
6	IC 680-523572/6	0.0625	401209207.0			6419347312.0	Y
7	IC 680-523572/5	0.125	820494148.0			6563953184.0	Y
8	IC 680-523572/4	0.25	1856270815.0			7425083260.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

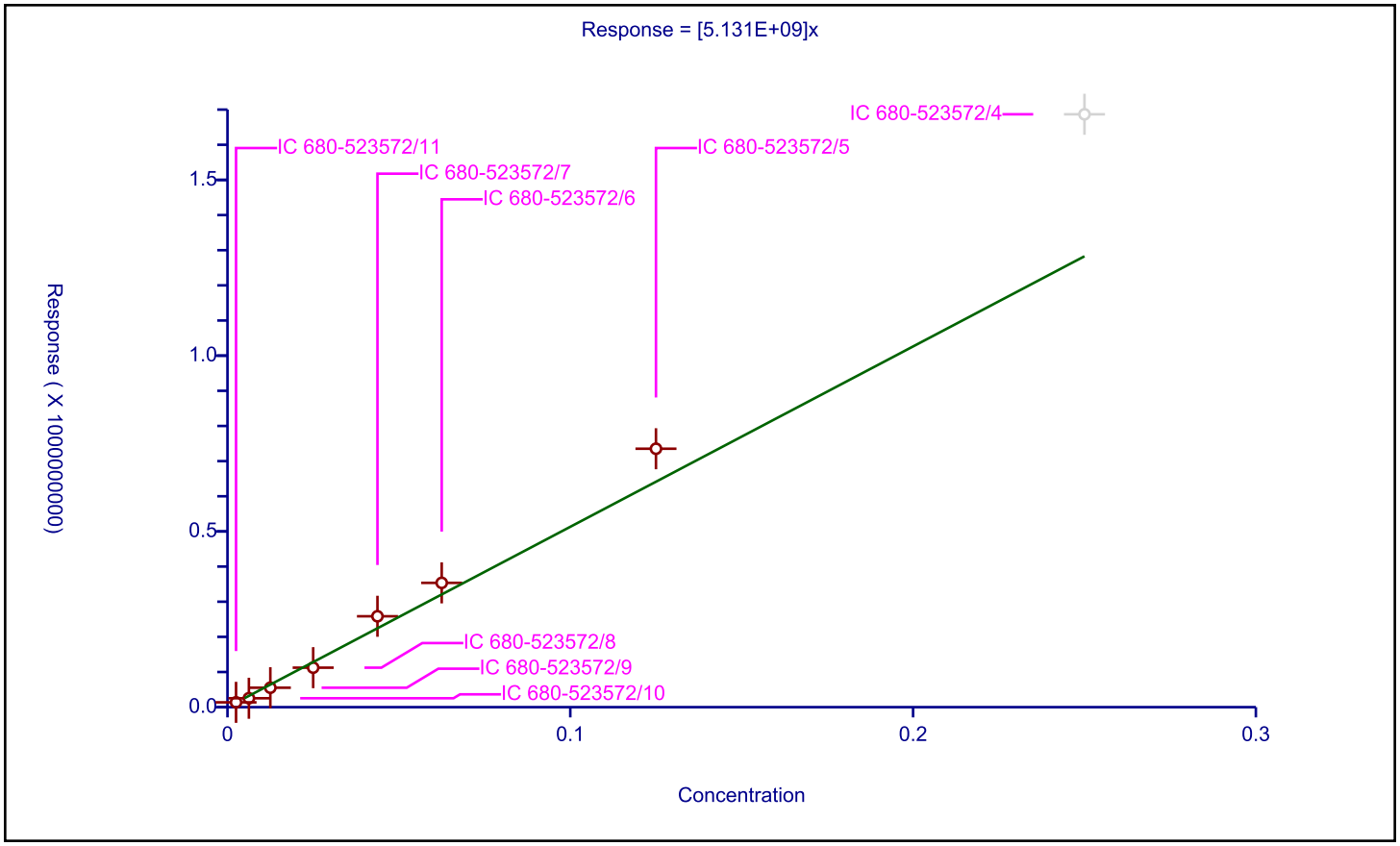
Curve Coefficients

Intercept:	0
Slope:	5.131E+09

Error Coefficients

Standard Error:	43600000
Relative Standard Error:	15.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.0025	13726331.0			5490532400.0	Y
2	IC 680-523572/10	0.00625	25357515.0			4057202400.0	Y
3	IC 680-523572/9	0.0125	55311764.0			4424941120.0	Y
4	IC 680-523572/8	0.025	112357736.0			4494309440.0	Y
5	IC 680-523572/7	0.04375	258556779.0			5909869234.28572	Y
6	IC 680-523572/6	0.0625	353637241.0			5658195856.0	Y
7	IC 680-523572/5	0.125	735201390.0			5881611120.0	Y
8	IC 680-523572/4	0.25	1686681883.0			6746727532.0	N



Calibration / Chloramben

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

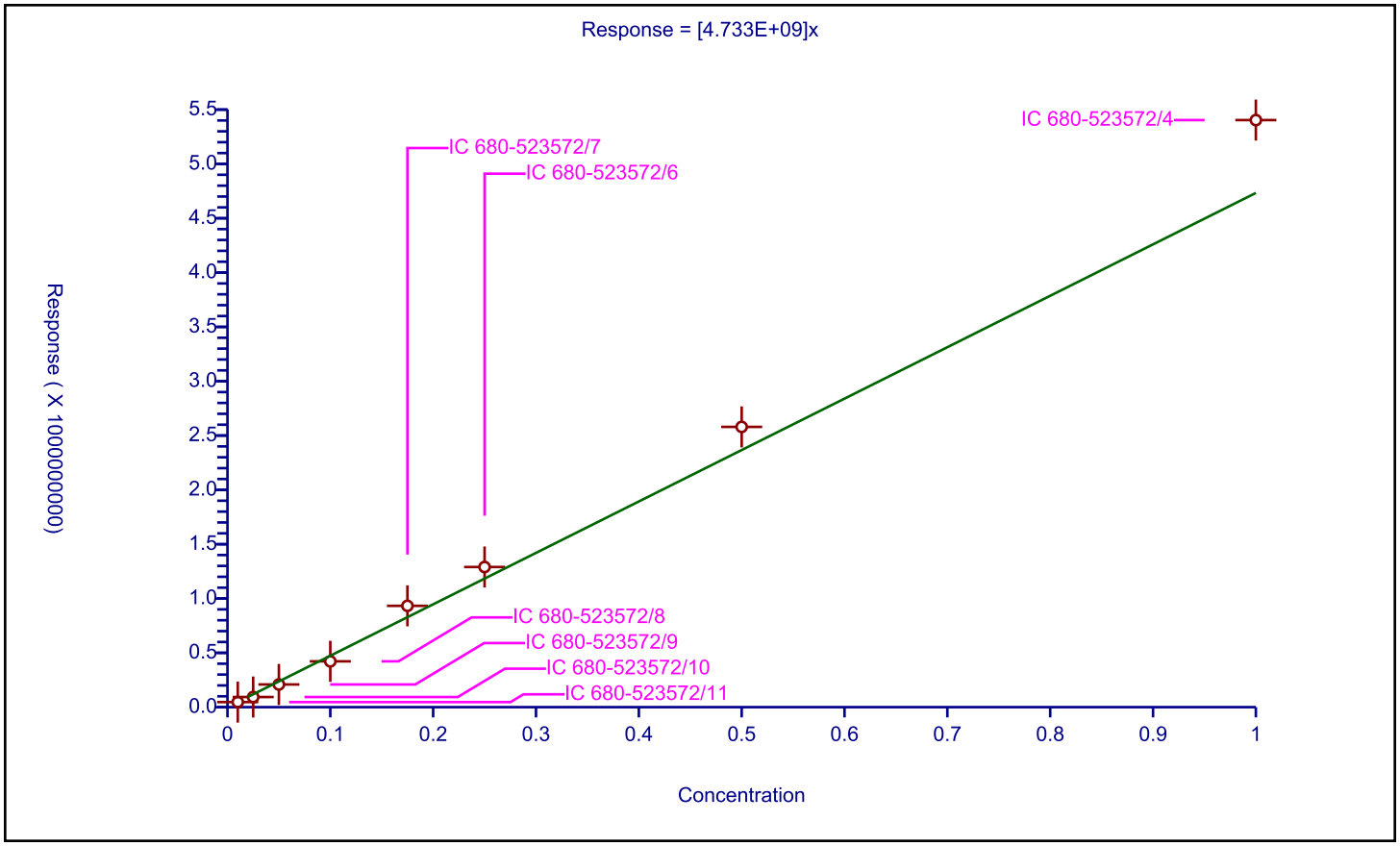
Curve Coefficients

Intercept:	0
Slope:	4.733E+09

Error Coefficients

Standard Error:	273000000
Relative Standard Error:	13.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	46864588.0			4686458800.0	Y
2	IC 680-523572/10	0.025	93206115.0			3728244600.0	Y
3	IC 680-523572/9	0.05	208906785.0			4178135700.0	Y
4	IC 680-523572/8	0.1	421826031.0			4218260310.0	Y
5	IC 680-523572/7	0.175	932682423.0			5329613845.71429	Y
6	IC 680-523572/6	0.25	1290053084.0			5160212336.0	Y
7	IC 680-523572/5	0.5	2579520319.0			5159040638.0	Y
8	IC 680-523572/4	1.0	5403593588.0			5403593588.0	Y



Calibration / Dinoseb

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

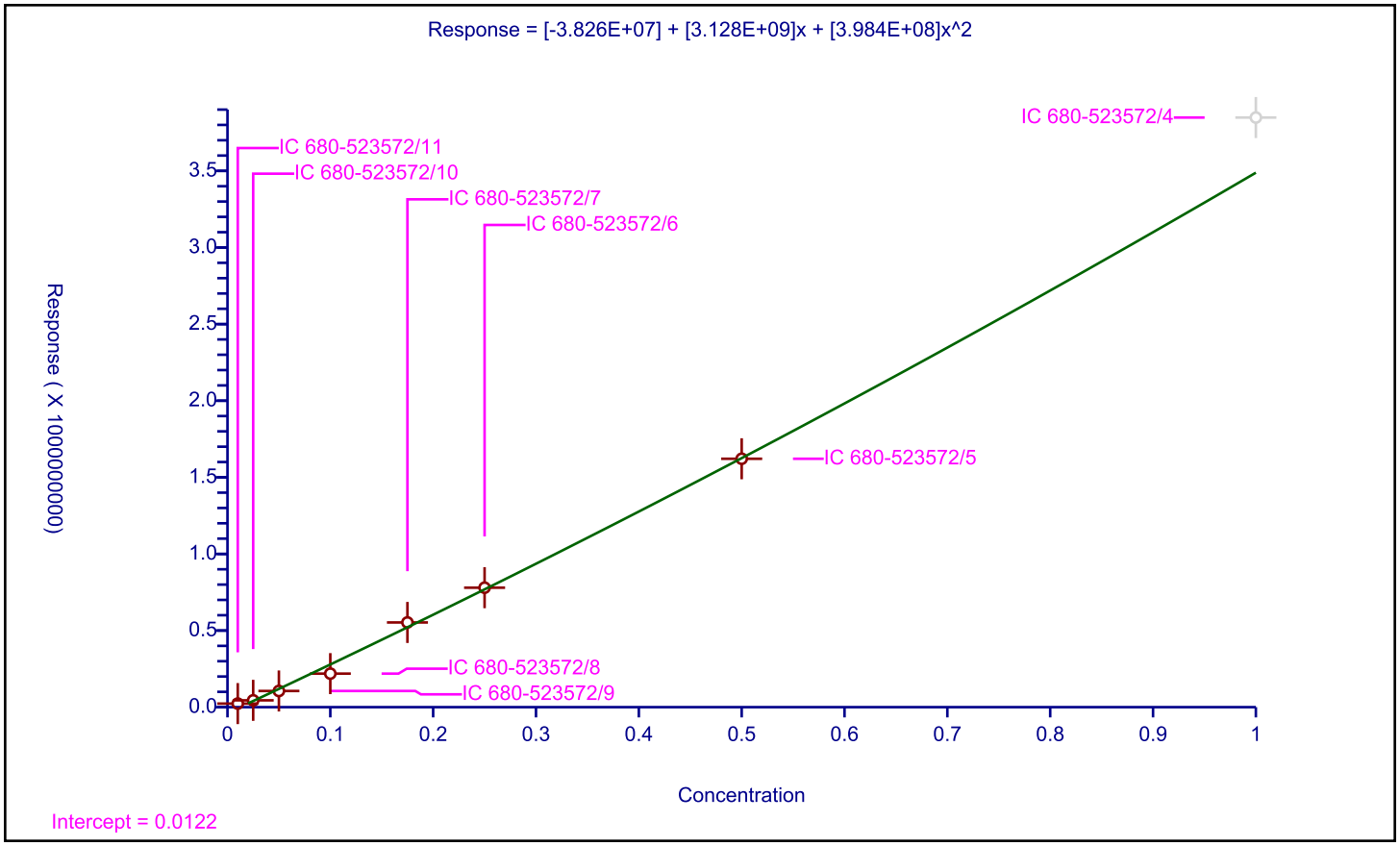
Curve Coefficients

Intercept:	-3.826E+07
Slope:	3.128E+09
Second Order:	3.984E+08

Error Coefficients

Standard Error:	38100000
Relative Standard Error:	49.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	23285232.0			2328523200.0	Y
2	IC 680-523572/10	0.025	44543235.0			1781729400.0	Y
3	IC 680-523572/9	0.05	105727247.0			2114544940.0	Y
4	IC 680-523572/8	0.1	218861678.0			2188616780.0	Y
5	IC 680-523572/7	0.175	552864347.0			3159224840.0	Y
6	IC 680-523572/6	0.25	779848561.0			3119394244.0	Y
7	IC 680-523572/5	0.5	1621278512.0			3242557024.0	Y
8	IC 680-523572/4	1.0	3848176282.0			3848176282.0	N



Calibration / 2,4-DB

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

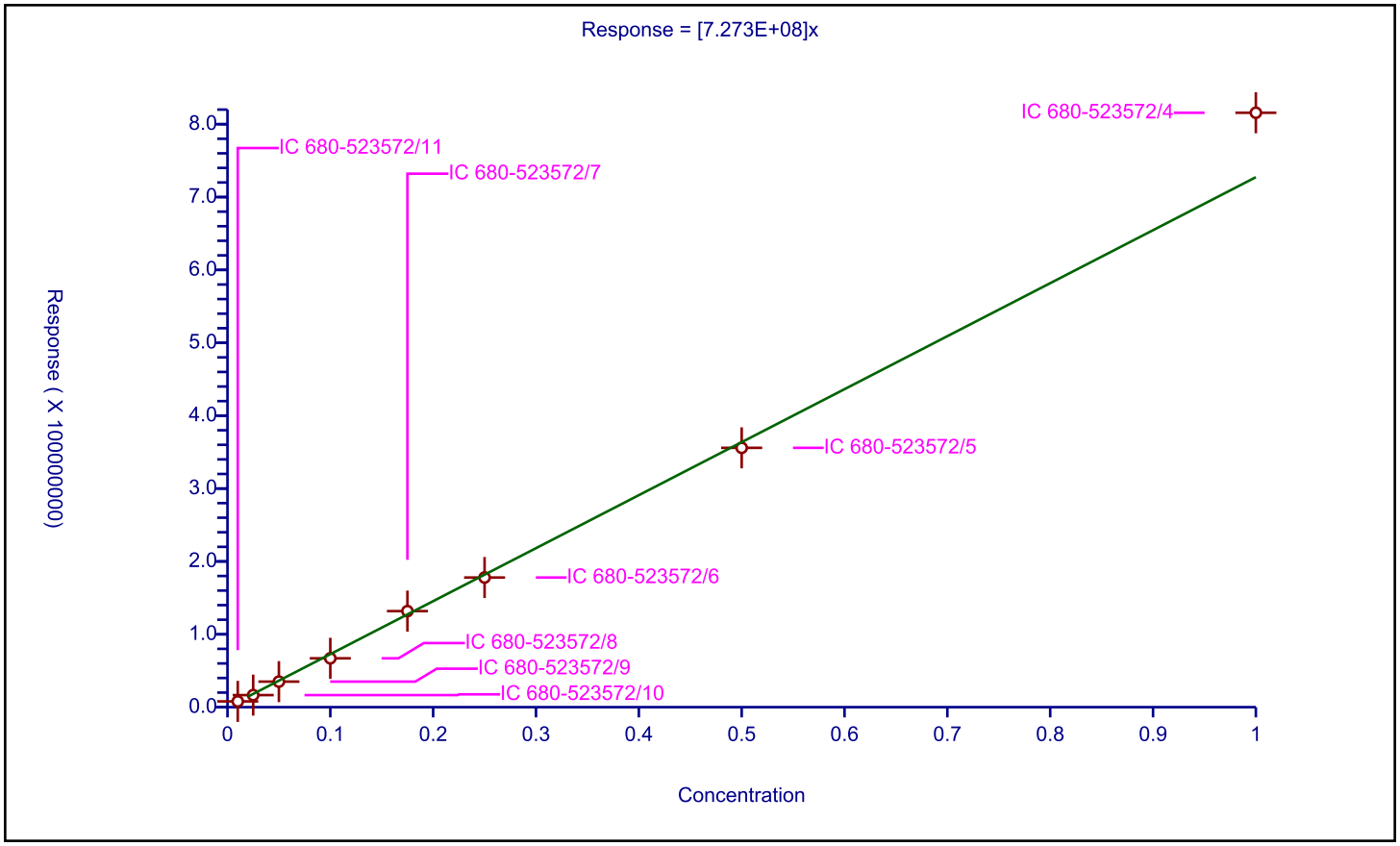
Curve Coefficients

Intercept:	0
Slope:	7.273E+08

Error Coefficients

Standard Error:	33700000
Relative Standard Error:	7.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	7931034.0			793103400.0	Y
2	IC 680-523572/10	0.025	16541201.0			661648040.0	Y
3	IC 680-523572/9	0.05	35061794.0			701235880.0	Y
4	IC 680-523572/8	0.1	67025442.0			670254420.0	Y
5	IC 680-523572/7	0.175	131785359.0			753059194.285714	Y
6	IC 680-523572/6	0.25	177870018.0			711480072.0	Y
7	IC 680-523572/5	0.5	355862410.0			711724820.0	Y
8	IC 680-523572/4	1.0	815688293.0			815688293.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

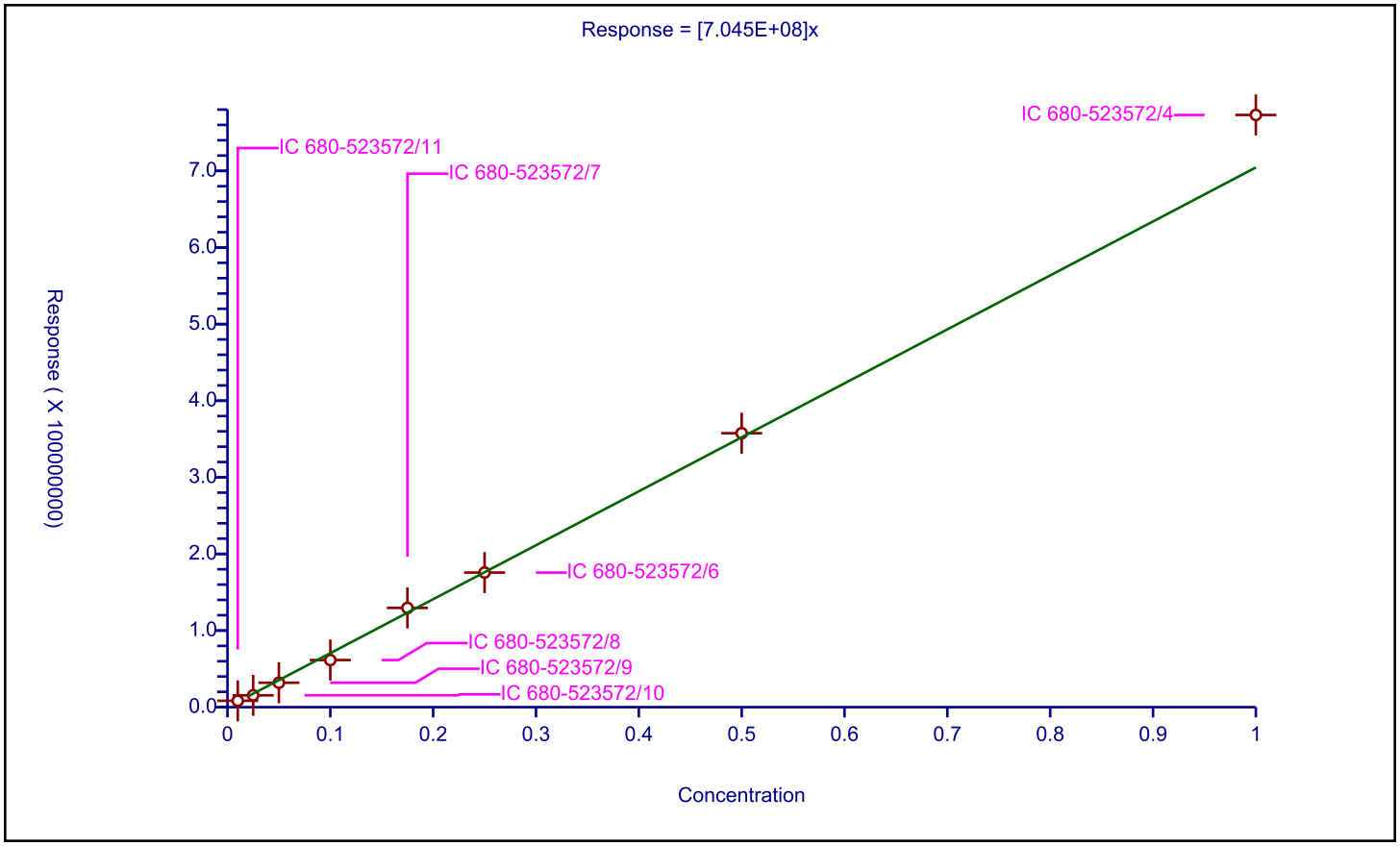
Curve Coefficients

Intercept:	0
Slope:	7.045E+08

Error Coefficients

Standard Error:	26400000
Relative Standard Error:	11.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	8350330.0			835033000.0	Y
2	IC 680-523572/10	0.025	15434944.0			617397760.0	Y
3	IC 680-523572/9	0.05	31859951.0			637199020.0	Y
4	IC 680-523572/8	0.1	61472612.0			614726120.0	Y
5	IC 680-523572/7	0.175	129567561.0			740386062.857143	Y
6	IC 680-523572/6	0.25	175704103.0			702816412.0	Y
7	IC 680-523572/5	0.5	357621900.0			715243800.0	Y
8	IC 680-523572/4	1.0	773013995.0			773013995.0	Y



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

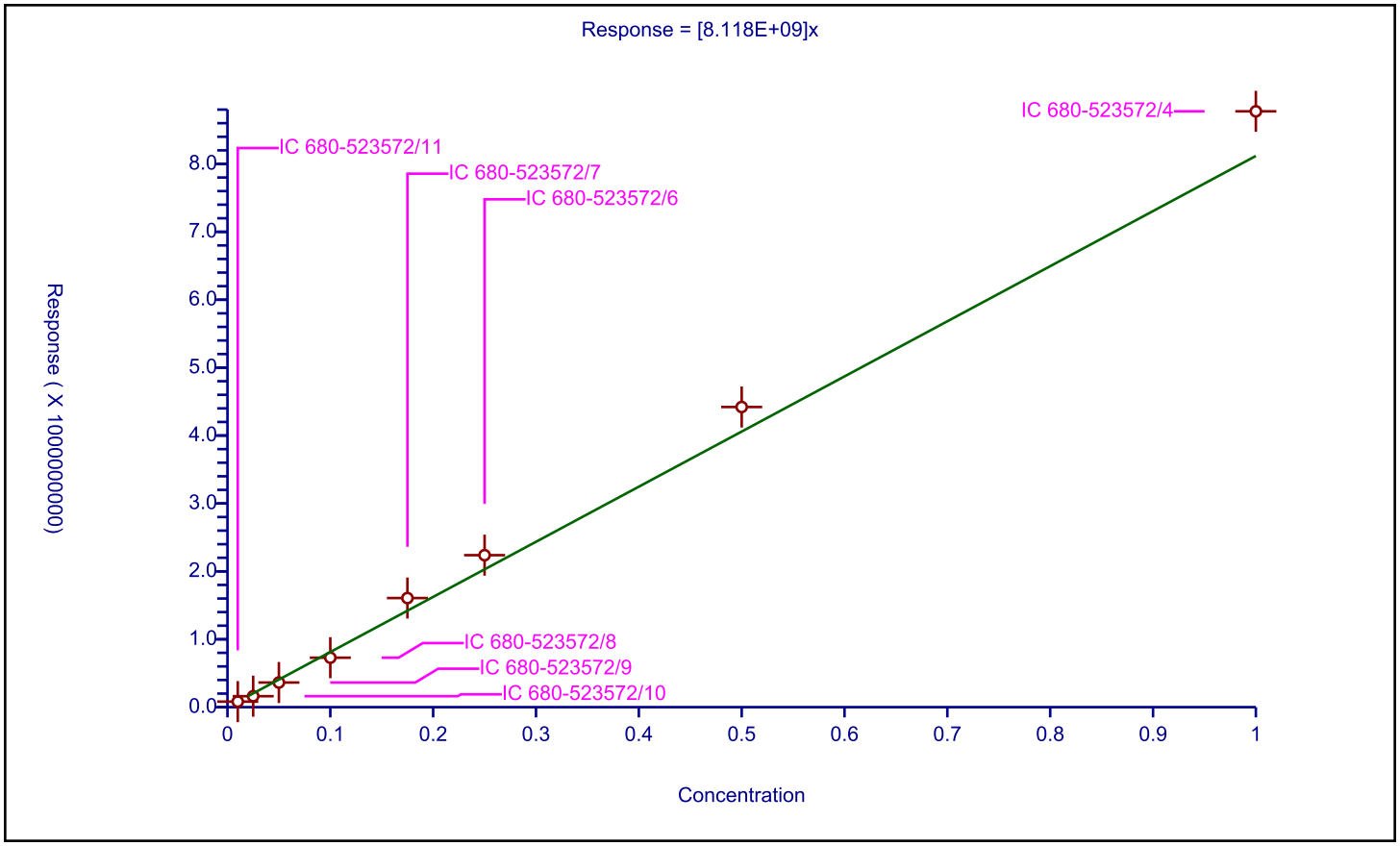
Curve Coefficients

Intercept:	0
Slope:	8.118E+09

Error Coefficients

Standard Error:	305000000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	81828951.0			8182895100.0	Y
2	IC 680-523572/10	0.025	161482853.0			6459314120.0	Y
3	IC 680-523572/9	0.05	363162816.0			7263256320.0	Y
4	IC 680-523572/8	0.1	728552811.0			7285528110.0	Y
5	IC 680-523572/7	0.175	1606795319.0			9181687537.14286	Y
6	IC 680-523572/6	0.25	2238371220.0			8953484880.0	Y
7	IC 680-523572/5	0.5	4420541185.0			8841082370.0	Y
8	IC 680-523572/4	1.0	8774731681.0			8774731681.0	Y



Calibration / Picloram

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

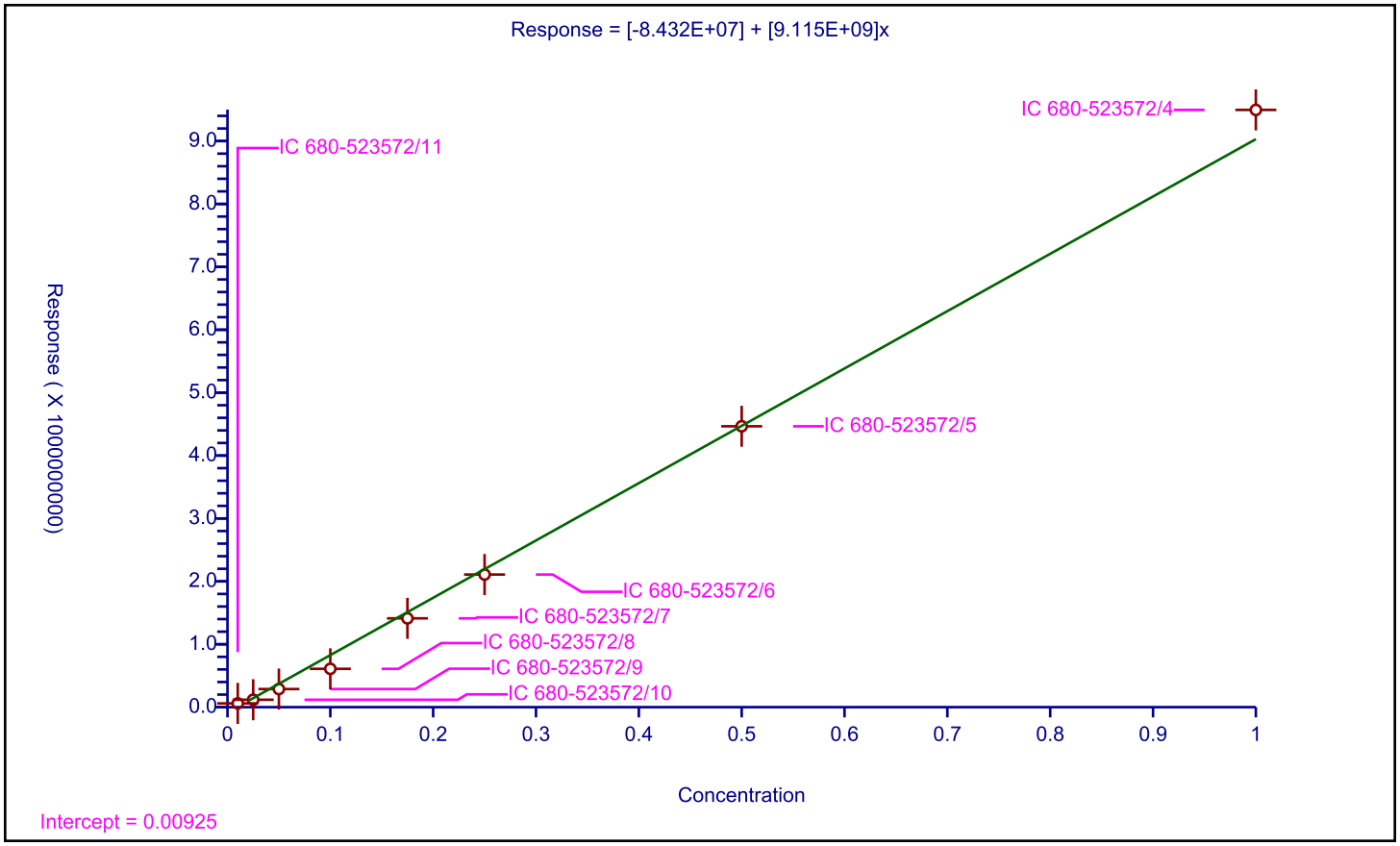
Curve Coefficients

Intercept:	-8.432E+07
Slope:	9.115E+09

Error Coefficients

Standard Error:	220000000
Relative Standard Error:	27.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	60007266.0			6000726600.0	Y
2	IC 680-523572/10	0.025	118110292.0			4724411680.0	Y
3	IC 680-523572/9	0.05	287961730.0			5759234600.0	Y
4	IC 680-523572/8	0.1	609692907.0			6096929070.0	Y
5	IC 680-523572/7	0.175	1412087067.0			8069068954.28572	Y
6	IC 680-523572/6	0.25	2108705379.0			8434821516.0	Y
7	IC 680-523572/5	0.5	4465456894.0			8930913788.0	Y
8	IC 680-523572/4	1.0	9495361307.0			9495361307.0	Y



Calibration / Acifluorfen

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

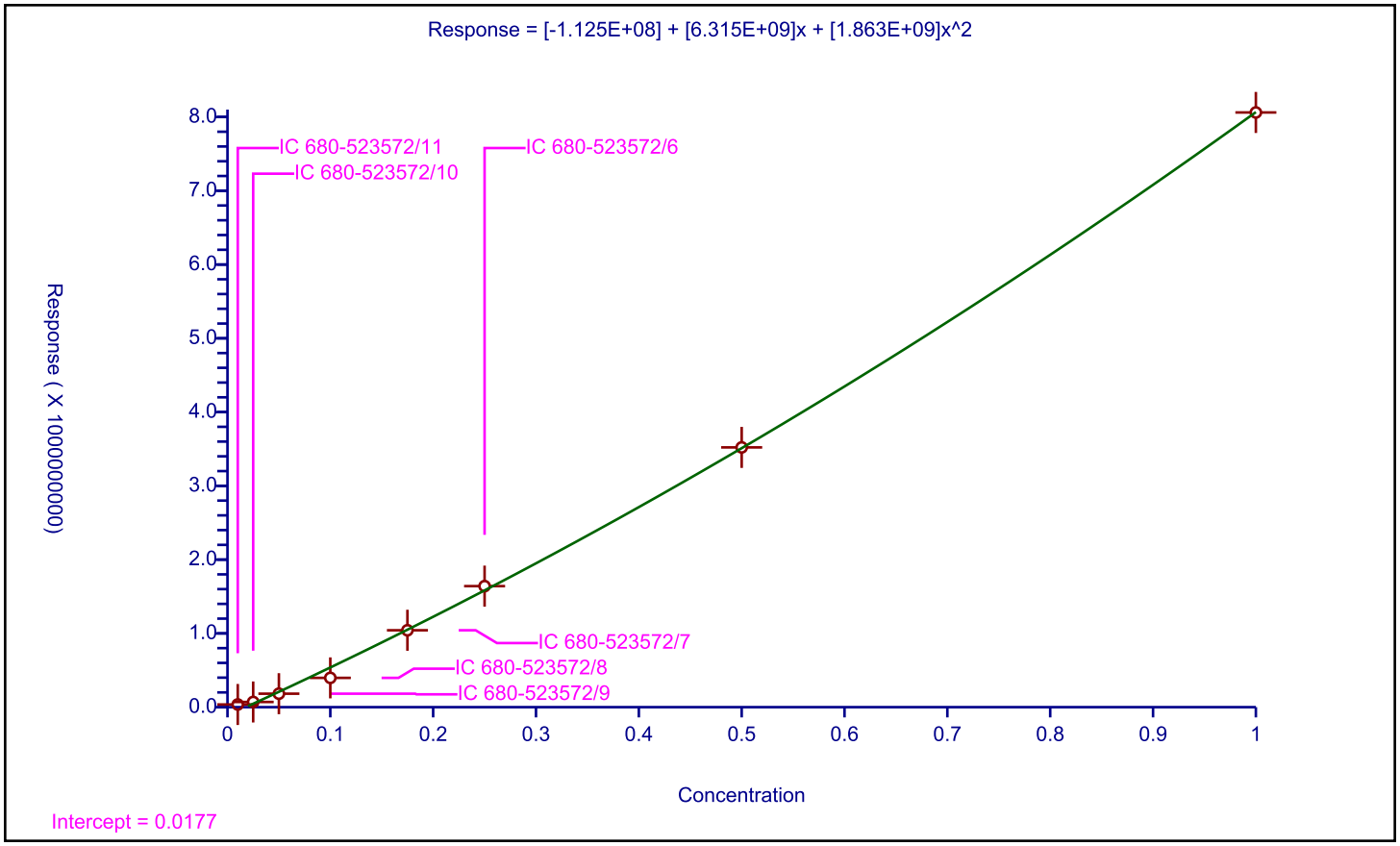
Curve Coefficients

Intercept:	-1.125E+08
Slope:	6.315E+09
Second Order:	1.863E+09

Error Coefficients

Standard Error:	79700000
Relative Standard Error:	61.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523572/11	0.01	36263377.0			3626337700.0	Y
2	IC 680-523572/10	0.025	70468139.0			2818725560.0	Y
3	IC 680-523572/9	0.05	182510548.0			3650210960.0	Y
4	IC 680-523572/8	0.1	397160260.0			3971602600.0	Y
5	IC 680-523572/7	0.175	1042379023.0			5956451560.0	Y
6	IC 680-523572/6	0.25	1640697173.0			6562788692.0	Y
7	IC 680-523572/5	0.5	3521187147.0			7042374294.0	Y
8	IC 680-523572/4	1.0	8061124513.0			8061124513.0	Y



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523317/12 Calibration Date: 05/09/2018 20:36

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Lin2		486553537		0.175	0.175	-0.3	20.0
3,5-Dichlorobenzoic acid	Ave	309205739	313964291		0.178	0.175	1.5	20.0
4-Nitrophenol	Ave	99563067	103704354		0.182	0.175	4.2	20.0
Dicamba	Ave	985452559	1006284549		0.0893	0.0875	2.1	20.0
MCPP	Ave	648656	686461		18.5	17.5	5.8	20.0
MCPA	Lin2		857183		17.6	17.5	0.5	20.0
Dichlorprop	Ave	256140387	255033703		0.174	0.175	-0.4	20.0
2,4-D	Ave	315615394	316910109		0.176	0.175	0.4	20.0
Pentachlorophenol	Ave	5067705785	5273415657		0.0455	0.0438	4.1	20.0
Silvex (2,4,5-TP)	Ave	1871206069	1959686446		0.0458	0.0438	4.7	20.0
Chloramben	Ave	1638631616	1695304126		0.181	0.175	3.5	20.0
2,4,5-T	Ave	1864427231	1902970583		0.0447	0.0438	2.1	20.0
2,4-DB	Ave	176196398	180631360		0.179	0.175	2.5	20.0
Dinoseb	Ave	1106610481	1175946086		0.186	0.175	6.3	20.0
Bentazon	Ave	257343496	260760840		0.177	0.175	1.3	20.0
Picloram	Ave	2669090691	2866909983		0.188	0.175	7.4	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	2836827415	3044796143		0.188	0.175	7.3	20.0
Acifluorfen	Ave	2034814874	2242439280		0.193	0.175	10.2	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	197437216	196206617		0.174	0.175	-0.6	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523317/12 Calibration Date: 05/09/2018 20:36

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.49	2.47	2.51
3,5-Dichlorobenzoic acid	6.05	6.04	6.06
4-Nitrophenol	6.17	6.16	6.18
Dicamba	6.64	6.63	6.65
MCPP	6.79	6.78	6.80
MCPA	6.92	6.91	6.93
Dichlorprop	7.10	7.09	7.11
2,4-D	7.25	7.24	7.26
Pentachlorophenol	7.60	7.58	7.60
Silvex (2,4,5-TP)	7.69	7.68	7.70
Chloramben	7.77	7.76	7.78
2,4,5-T	7.85	7.84	7.86
2,4-DB	8.09	8.08	8.10
Dinoseb	8.14	8.13	8.15
Bentazon	8.22	8.21	8.23
Picloram	8.43	8.42	8.44
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.54	8.53	8.55
Acifluorfen	9.58	9.57	9.59
2,4-Dichlorophenylacetic acid (Surr)	6.60	6.59	6.61

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2018 20:36:48 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:34:31 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:27:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.492	2.491	0.001	85146869	0.1750	0.1745	
2	2.541	2.540	0.001	241542359	0.1750	0.1714	
						RPD = 1.79	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	16749778	NC	NC	
2	5.029	5.028	0.001	86944012	NC	NC	
						RPD = 0.77	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	209484794	NC	NC	
2	5.702	5.700	0.002	863707068	NC	NC	
						RPD = 0.78	
4 3,5-Dichlorobenzoic acid							
1	6.048	6.047	0.001	54943751	0.1750	0.1777	
2	6.041	6.040	0.001	284727485	0.1750	0.1760	
						RPD = 0.94	
5 4-Nitrophenol							
1	6.173	6.173	0.000	18148262	0.1750	0.1823	
2	6.426	6.426	0.000	50634392	0.1750	0.1628	
						RPD = 11.31	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	34336158	0.1750	0.1739	
2	6.753	6.752	0.001	217354343	0.1750	0.1747	
						RPD = 0.45	
7 Dicamba							
1	6.641	6.642	-0.001	88049898	0.0875	0.0893	
2	6.834	6.833	0.001	397098791	0.0875	0.0895	
						RPD = 0.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	12013071	17.5	18.5	
2	6.881	6.880	0.001	70684559	17.5	18.1	
						RPD = 2.22	
9 MCPA							
1	6.917	6.916	0.001	15000707	17.5	17.6	
2	7.079	7.078	0.001	142473047	17.5	18.2	
						RPD = 3.29	
10 Dichlorprop							
1	7.103	7.102	0.001	44630898	0.1750	0.1742	
2	7.223	7.223	0.000	205646749	0.1750	0.1680	
						RPD = 3.65	
11 2,4-D							
1	7.245	7.246	-0.001	55459269	0.1750	0.1757	
2	7.443	7.443	0.000	253807544	0.1750	0.1739	
						RPD = 1.06	
12 Pentachlorophenol							
1	7.595	7.594	0.001	230711935	0.0438	0.0455	
2	7.638	7.637	0.001	783133353	0.0438	0.0464	
						RPD = 1.98	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	85736282	0.0438	0.0458	
2	7.775	7.774	0.001	304069662	0.0438	0.0453	
						RPD = 1.09	
14 Chloramben							
1	7.771	7.770	0.001	296678222	0.1750	0.1811	
2	8.082	8.081	0.001	997076330	0.1750	0.1842	
						RPD = 1.70	
15 2,4,5-T							
1	7.848	7.848	0.000	83254963	0.0438	0.0447	
2	8.008	8.008	0.000	277672888	0.0438	0.0446	
						RPD = 0.21	
16 2,4-DB							
1	8.090	8.091	-0.001	31610488	0.1750	0.1794	
2	8.223	8.222	0.001	151469161	0.1750	0.1726	
						RPD = 3.89	
17 Dinoseb							
1	8.144	8.144	0.000	205790565	0.1750	0.1860	
2	8.174	8.173	0.001	621462449	0.1750	0.1894	
						RPD = 1.85	
18 Bentazon							
1	8.218	8.218	0.000	45633147	0.1750	0.1773	
2	8.581	8.578	0.003	130083341	0.1750	0.1747	
						RPD = 1.48	
19 Picloram							
1	8.434	8.433	0.001	501709247	0.1750	0.1880	
2	8.916	8.913	0.003	1591011007	0.1750	0.1920	
						RPD = 2.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	532839325	0.1750	0.1878	
2	8.695	8.692	0.003	1677532363	0.1750	0.1884	
						RPD = 0.28	
21 Acifluorfen							
1	9.578	9.577	0.001	392426874	0.1750	0.1929	
2	9.713	9.710	0.003	1146078930	0.1750	0.1637	
						RPD = 16.35	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

Report Date: 10-May-2018 10:34:33 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090012.D

Injection Date: 09-May-2018 20:36:48 Instrument ID: CSGS Operator ID: GEM

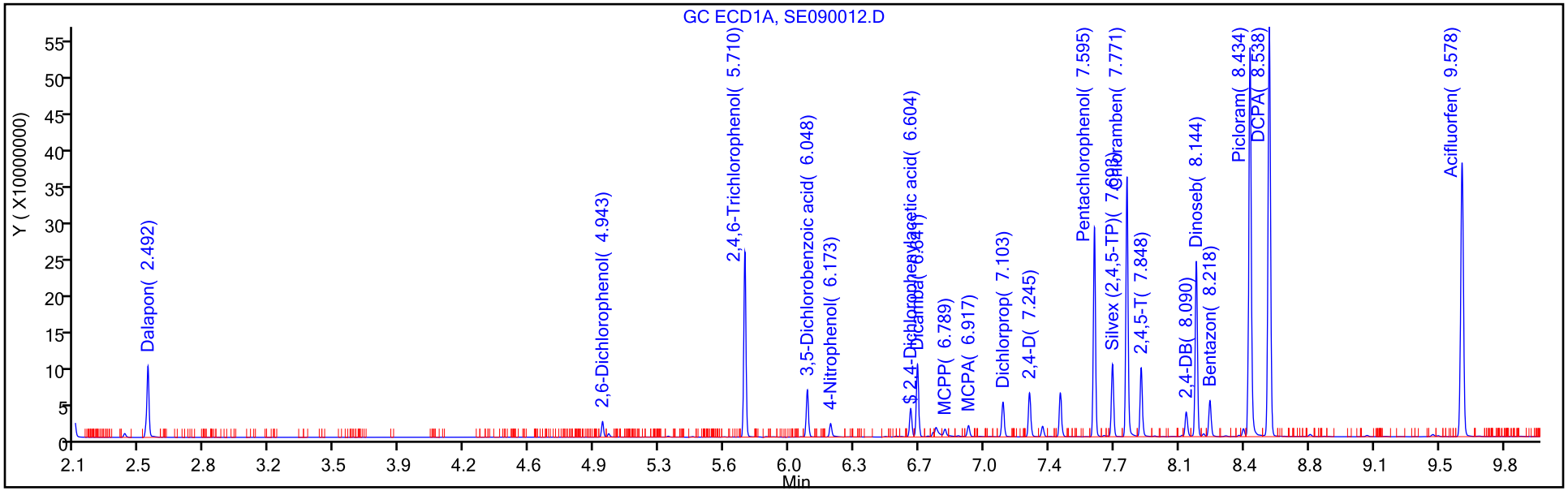
Lims ID: icv herb Worklist Smp#: 12

Client ID:

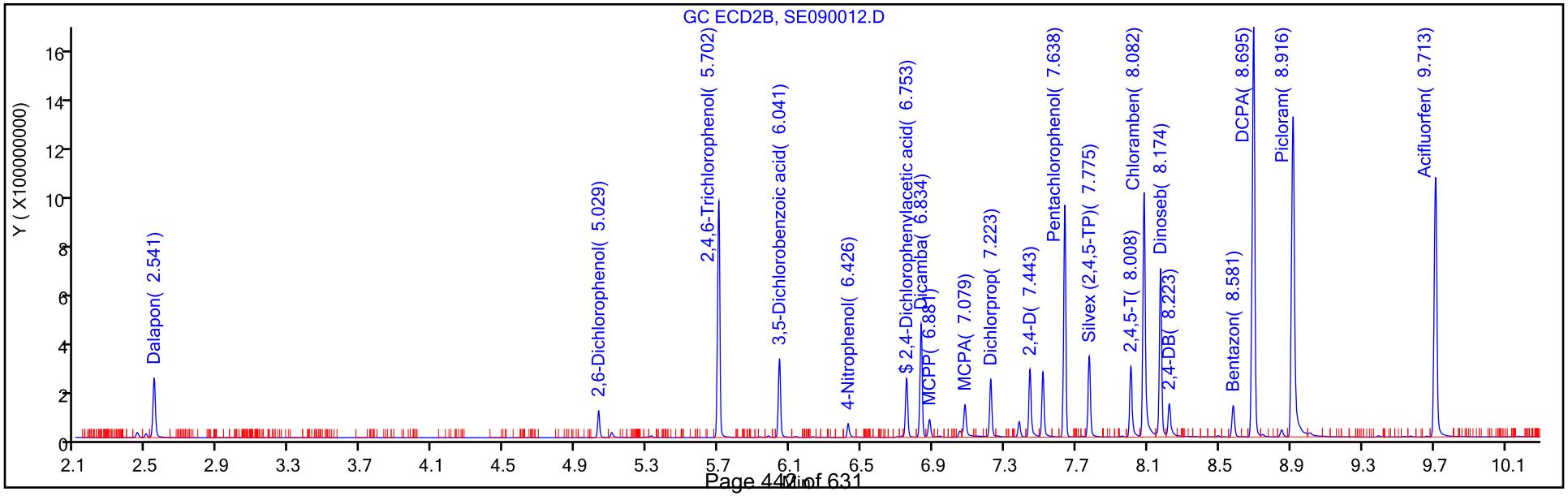
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 12

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523317/12 Calibration Date: 05/09/2018 20:36

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1409266868	1380242051		0.171	0.175	-2.1	20.0
3,5-Dichlorobenzoic acid	Ave	1617456042	1627014200		0.176	0.175	0.6	20.0
4-Nitrophenol	Ave	311092218	289339383		0.163	0.175	-7.0	20.0
Dicamba	Ave	4434710231	4538271897		0.0895	0.0875	2.3	20.0
MCPP	Lin1		4039118		18.1	17.5	3.5	20.0
MCPA	Lin1		8141317		18.2	17.5	3.8	20.0
Dichlorprop	Ave	1224042756	1175124280		0.168	0.175	-4.0	20.0
2,4-D	Ave	1459816204	1450328823		0.174	0.175	-0.6	20.0
Pentachlorophenol	Ave	16865007870	17900190926		0.0464	0.0438	6.1	20.0
Silvex (2,4,5-TP)	Ave	6709043454	6950163703		0.0453	0.0438	3.6	20.0
2,4,5-T	Ave	6231494812	6346808869		0.0446	0.0438	1.9	20.0
Chloramben	Ave	5414290225	5697579029		0.184	0.175	5.2	20.0
Dinoseb	Ave	3280538682	3551213994		0.189	0.175	8.3	20.0
2,4-DB	Ave	877738161	865538063		0.173	0.175	-1.4	20.0
Bentazon	Ave	744502557	743333377		0.175	0.175	-0.2	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	8906266754	9585899217		0.188	0.175	7.6	20.0
Picloram	Ave	8285688505	9091491469		0.192	0.175	9.7	20.0
Acifluorfen	Lin		6549022457		0.164	0.175	-6.5	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1244249188	1242024817		0.175	0.175	-0.2	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523317/12 Calibration Date: 05/09/2018 20:36

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.54	2.52	2.56
3,5-Dichlorobenzoic acid	6.04	6.03	6.05
4-Nitrophenol	6.43	6.42	6.44
Dicamba	6.83	6.82	6.84
MCPP	6.88	6.87	6.89
MCPA	7.08	7.07	7.09
Dichlorprop	7.22	7.21	7.23
2,4-D	7.44	7.43	7.45
Pentachlorophenol	7.64	7.63	7.65
Silvex (2,4,5-TP)	7.78	7.76	7.78
2,4,5-T	8.01	8.00	8.02
Chloramben	8.08	8.07	8.09
Dinoseb	8.17	8.16	8.18
2,4-DB	8.22	8.21	8.23
Bentazon	8.58	8.57	8.59
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.70	8.68	8.70
Picloram	8.92	8.90	8.92
Acifluorfen	9.71	9.70	9.72
2,4-Dichlorophenylacetic acid (Surr)	6.75	6.74	6.76

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2018 20:36:48 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 10:34:31 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 10:27:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.492	2.491	0.001	85146869	0.1750	0.1745	
2	2.541	2.540	0.001	241542359	0.1750	0.1714	
						RPD = 1.79	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	16749778	NC	NC	
2	5.029	5.028	0.001	86944012	NC	NC	
						RPD = 0.77	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	209484794	NC	NC	
2	5.702	5.700	0.002	863707068	NC	NC	
						RPD = 0.78	
4 3,5-Dichlorobenzoic acid							
1	6.048	6.047	0.001	54943751	0.1750	0.1777	
2	6.041	6.040	0.001	284727485	0.1750	0.1760	
						RPD = 0.94	
5 4-Nitrophenol							
1	6.173	6.173	0.000	18148262	0.1750	0.1823	
2	6.426	6.426	0.000	50634392	0.1750	0.1628	
						RPD = 11.31	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	34336158	0.1750	0.1739	
2	6.753	6.752	0.001	217354343	0.1750	0.1747	
						RPD = 0.45	
7 Dicamba							
1	6.641	6.642	-0.001	88049898	0.0875	0.0893	
2	6.834	6.833	0.001	397098791	0.0875	0.0895	
						RPD = 0.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	12013071	17.5	18.5	
2	6.881	6.880	0.001	70684559	17.5	18.1	
						RPD = 2.22	
9 MCPA							
1	6.917	6.916	0.001	15000707	17.5	17.6	
2	7.079	7.078	0.001	142473047	17.5	18.2	
						RPD = 3.29	
10 Dichlorprop							
1	7.103	7.102	0.001	44630898	0.1750	0.1742	
2	7.223	7.223	0.000	205646749	0.1750	0.1680	
						RPD = 3.65	
11 2,4-D							
1	7.245	7.246	-0.001	55459269	0.1750	0.1757	
2	7.443	7.443	0.000	253807544	0.1750	0.1739	
						RPD = 1.06	
12 Pentachlorophenol							
1	7.595	7.594	0.001	230711935	0.0438	0.0455	
2	7.638	7.637	0.001	783133353	0.0438	0.0464	
						RPD = 1.98	
13 Silvex (2,4,5-TP)							
1	7.693	7.692	0.001	85736282	0.0438	0.0458	
2	7.775	7.774	0.001	304069662	0.0438	0.0453	
						RPD = 1.09	
14 Chloramben							
1	7.771	7.770	0.001	296678222	0.1750	0.1811	
2	8.082	8.081	0.001	997076330	0.1750	0.1842	
						RPD = 1.70	
15 2,4,5-T							
1	7.848	7.848	0.000	83254963	0.0438	0.0447	
2	8.008	8.008	0.000	277672888	0.0438	0.0446	
						RPD = 0.21	
16 2,4-DB							
1	8.090	8.091	-0.001	31610488	0.1750	0.1794	
2	8.223	8.222	0.001	151469161	0.1750	0.1726	
						RPD = 3.89	
17 Dinoseb							
1	8.144	8.144	0.000	205790565	0.1750	0.1860	
2	8.174	8.173	0.001	621462449	0.1750	0.1894	
						RPD = 1.85	
18 Bentazon							
1	8.218	8.218	0.000	45633147	0.1750	0.1773	
2	8.581	8.578	0.003	130083341	0.1750	0.1747	
						RPD = 1.48	
19 Picloram							
1	8.434	8.433	0.001	501709247	0.1750	0.1880	
2	8.916	8.913	0.003	1591011007	0.1750	0.1920	
						RPD = 2.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.538	8.537	0.001	532839325	0.1750	0.1878	
2	8.695	8.692	0.003	1677532363	0.1750	0.1884	
						RPD = 0.28	
21 Acifluorfen							
1	9.578	9.577	0.001	392426874	0.1750	0.1929	
2	9.713	9.710	0.003	1146078930	0.1750	0.1637	
						RPD = 16.35	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

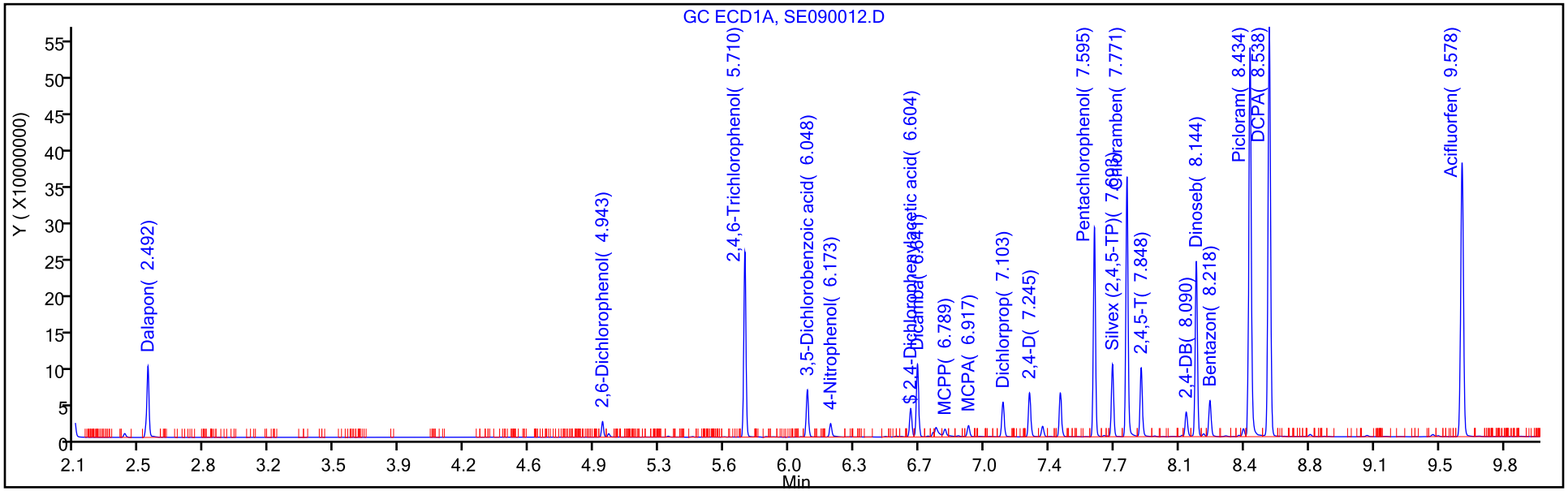
Report Date: 10-May-2018 10:34:33 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

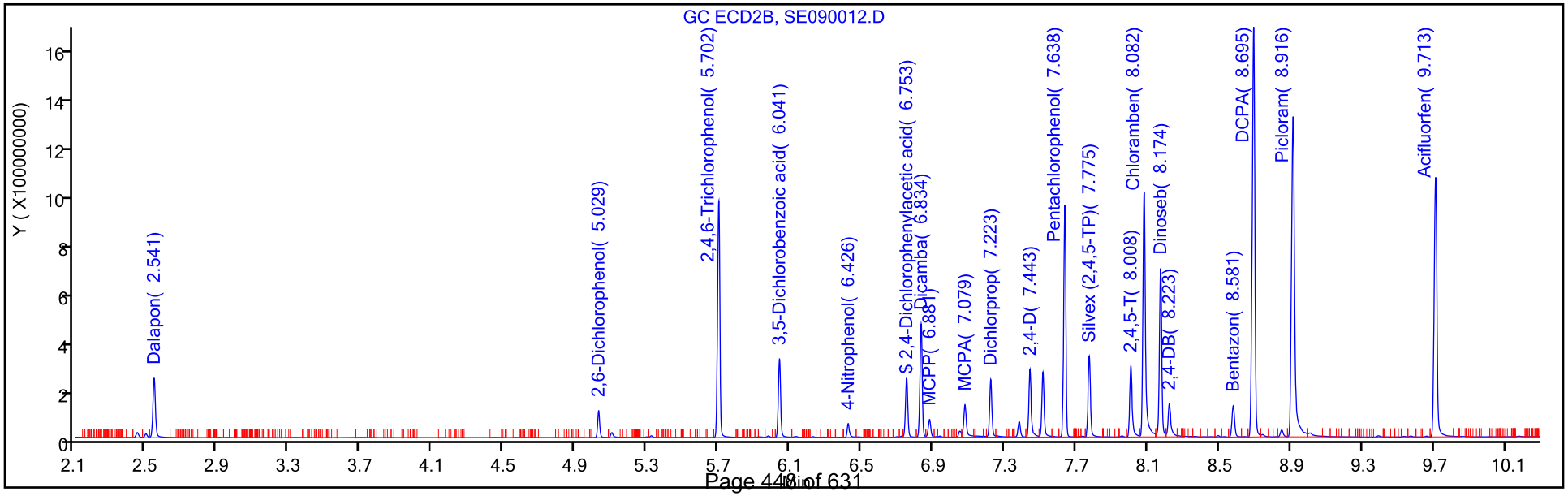
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090012.D

Injection Date:	09-May-2018 20:36:48	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	icv herb			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/32 Calibration Date: 05/10/2018 03:09

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090032.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Lin2		483092737		0.173	0.175	-1.0	20.0
3,5-Dichlorobenzoic acid	Ave	309205739	318651571		0.180	0.175	3.1	20.0
4-Nitrophenol	Ave	99563067	103963983		0.183	0.175	4.4	20.0
Dicamba	Ave	985452559	1027045726		0.0912	0.0875	4.2	20.0
MCPP	Ave	648656	725179		19.6	17.5	11.8	20.0
MCPA	Lin2		868113		17.8	17.5	1.8	20.0
Dichlorprop	Ave	256140387	257736606		0.176	0.175	0.6	20.0
2,4-D	Ave	315615394	320574760		0.178	0.175	1.6	20.0
Pentachlorophenol	Ave	5067705785	5351963017		0.0462	0.0438	5.6	20.0
Silvex (2,4,5-TP)	Ave	1871206069	1979546491		0.0463	0.0438	5.8	20.0
Chloramben	Ave	1638631616	1701022354		0.182	0.175	3.8	20.0
2,4,5-T	Ave	1864427231	1909288229		0.0448	0.0438	2.4	20.0
2,4-DB	Ave	176196398	181880371		0.181	0.175	3.2	20.0
Dinoseb	Ave	1106610481	1231461851		0.195	0.175	11.3	20.0
Bentazon	Ave	257343496	261819914		0.178	0.175	1.7	20.0
Picloram	Ave	2669090691	2939218274		0.193	0.175	10.1	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	2836827415	3051254771		0.188	0.175	7.6	20.0
Acifluorfen	Ave	2034814874	2465182183		0.212	0.175	21.2*	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	197437216	199772549		0.177	0.175	1.2	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/32 Calibration Date: 05/10/2018 03:09

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090032.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.49	2.47	2.51
3,5-Dichlorobenzoic acid	6.05	6.04	6.06
4-Nitrophenol	6.17	6.16	6.18
Dicamba	6.64	6.63	6.65
MCPP	6.79	6.78	6.80
MCPA	6.92	6.91	6.93
Dichlorprop	7.10	7.09	7.11
2,4-D	7.24	7.24	7.26
Pentachlorophenol	7.59	7.58	7.60
Silvex (2,4,5-TP)	7.69	7.68	7.70
Chloramben	7.77	7.76	7.78
2,4,5-T	7.85	7.84	7.86
2,4-DB	8.09	8.08	8.10
Dinoseb	8.14	8.13	8.15
Bentazon	8.22	8.21	8.23
Picloram	8.43	8.42	8.44
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.54	8.53	8.55
Acifluorfen	9.58	9.57	9.59
2,4-Dichlorophenylacetic acid (Surr)	6.60	6.59	6.61

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090032.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 10-May-2018 03:09:27 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-032
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:25:21 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:00:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	84541229	0.1750	0.1732	
2	2.541	2.540	0.001	248577594	0.1750	0.1764	
						RPD = 1.81	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	16933187	NC	NC	
2	5.029	5.028	0.001	87900761	NC	NC	
						RPD = 0.77	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	213170807	NC	NC	
2	5.702	5.700	0.002	884449932	NC	NC	
						RPD = 1.41	
4 3,5-Dichlorobenzoic acid							
1	6.046	6.047	-0.001	55764025	0.1750	0.1803	
2	6.041	6.040	0.001	292163936	0.1750	0.1806	
						RPD = 0.16	
5 4-Nitrophenol							
1	6.172	6.173	-0.001	18193697	0.1750	0.1827	
2	6.425	6.426	-0.001	52487575	0.1750	0.1687	
						RPD = 7.98	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	34960196	0.1750	0.1771	
2	6.753	6.752	0.001	222867006	0.1750	0.1791	
						RPD = 1.15	
7 Dicamba							
1	6.641	6.642	-0.001	89866501	0.0875	0.0912	
2	6.833	6.833	0.000	408629977	0.0875	0.0921	
						RPD = 1.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	12690638	17.5	19.6	
2	6.881	6.880	0.001	72255379	17.5	18.5	
						RPD = 5.39	
9 MCPA							
1	6.916	6.916	0.000	15191976	17.5	17.8	
2	7.079	7.078	0.001	147652533	17.5	18.9	
						RPD = 5.79	
10 Dichlorprop							
1	7.101	7.102	-0.001	45103906	0.1750	0.1761	
2	7.223	7.223	0.000	210811899	0.1750	0.1722	
						RPD = 2.22	
11 2,4-D							
1	7.244	7.246	-0.002	56100583	0.1750	0.1777	
2	7.443	7.443	0.000	258671532	0.1750	0.1772	
						RPD = 0.31	
12 Pentachlorophenol							
1	7.594	7.594	0.000	234148382	0.0438	0.0462	
2	7.638	7.637	0.001	803621097	0.0438	0.0477	
						RPD = 3.08	
13 Silvex (2,4,5-TP)							
1	7.691	7.692	-0.001	86605159	0.0438	0.0463	
2	7.773	7.774	-0.001	313800302	0.0438	0.0468	
						RPD = 1.05	
14 Chloramben							
1	7.769	7.770	-0.001	297678912	0.1750	0.1817	
2	8.081	8.081	0.000	1003940255	0.1750	0.1854	
						RPD = 2.05	
15 2,4,5-T							
1	7.846	7.848	-0.002	83531360	0.0438	0.0448	
2	8.006	8.008	-0.002	287592941	0.0438	0.0462	
						RPD = 2.97	
16 2,4-DB							
1	8.089	8.091	-0.002	31829065	0.1750	0.1806	
2	8.221	8.222	-0.001	150173632	0.1750	0.1711	
						RPD = 5.43	
17 Dinoseb							
1	8.143	8.144	-0.001	215505824	0.1750	0.1947	
2	8.173	8.173	0.000	661515837	0.1750	0.2016	
						RPD = 3.48	
18 Bentazon							
1	8.217	8.218	-0.001	45818485	0.1750	0.1780	
2	8.578	8.578	0.000	133431687	0.1750	0.1792	
						RPD = 0.66	
19 Picloram							
1	8.433	8.433	0.000	514363198	0.1750	0.1927	
2	8.913	8.913	0.000	1683046117	0.1750	0.2031	
						RPD = 5.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.537	8.537	0.000	533969585	0.1750	0.1882	
2	8.693	8.692	0.001	1724824181	0.1750	0.1937	
						RPD = 2.85	
21 Acifluorfen							
1	9.576	9.577	-0.001	431406882	0.1750	0.2120	
2	9.712	9.710	0.002	1304158427	0.1750	0.1824	
						RPD = 15.02	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

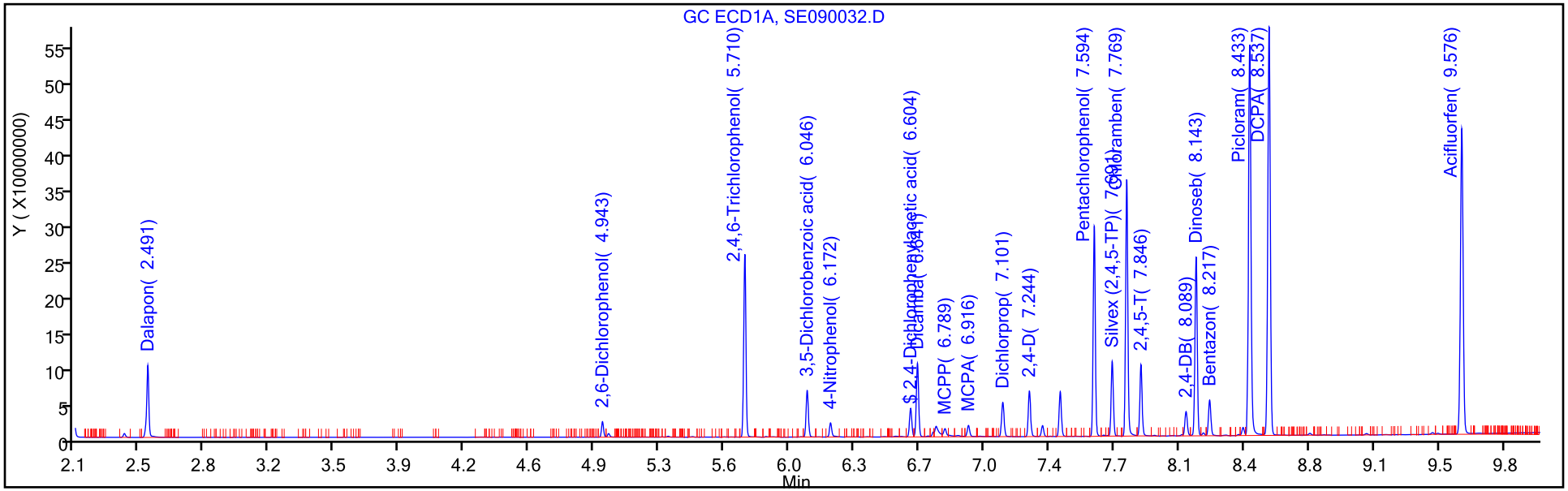
Report Date: 10-May-2018 11:25:25 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

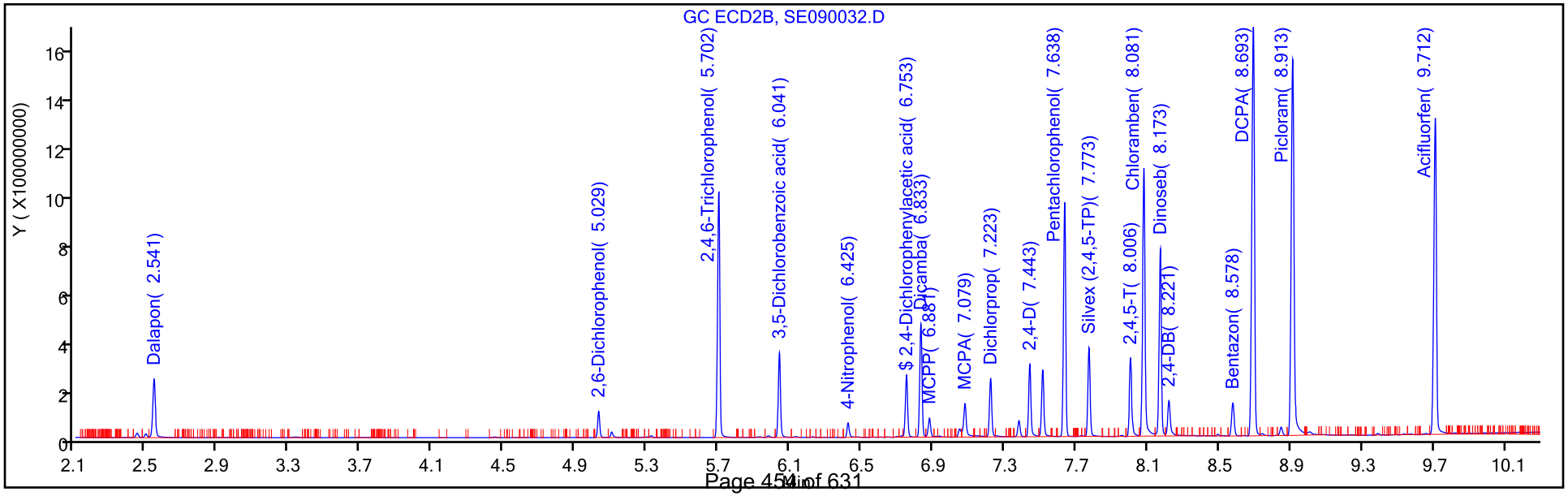
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090032.D

Injection Date:	10-May-2018 03:09:27	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/32 Calibration Date: 05/10/2018 03:09

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090032.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1409266868	1420443394		0.176	0.175	0.8	20.0
3,5-Dichlorobenzoic acid	Ave	1617456042	1669508206		0.181	0.175	3.2	20.0
4-Nitrophenol	Ave	311092218	299929000		0.169	0.175	-3.6	20.0
Dicamba	Ave	4434710231	4670056880		0.0921	0.0875	5.3	20.0
MCPP	Lin1		4128879		18.5	17.5	5.9	20.0
MCPA	Lin1		8437288		18.9	17.5	7.8	20.0
Dichlorprop	Ave	1224042756	1204639423		0.172	0.175	-1.6	20.0
2,4-D	Ave	1459816204	1478123040		0.177	0.175	1.3	20.0
Pentachlorophenol	Ave	16865007870	18368482217		0.0477	0.0438	8.9	20.0
Silvex (2,4,5-TP)	Ave	6709043454	7172578331		0.0468	0.0438	6.9	20.0
2,4,5-T	Ave	6231494812	6573552937		0.0462	0.0438	5.5	20.0
Chloramben	Ave	5414290225	5736801457		0.185	0.175	6.0	20.0
Dinoseb	Ave	3280538682	3780090497		0.202	0.175	15.2	20.0
2,4-DB	Ave	877738161	858135040		0.171	0.175	-2.2	20.0
Bentazon	Ave	744502557	762466783		0.179	0.175	2.4	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	8906266754	9856138177		0.194	0.175	10.7	20.0
Picloram	Ave	8285688505	9617406383		0.203	0.175	16.1	20.0
Acifluorfen	Lin		7452333869		0.182	0.175	4.2	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1244249188	1273525749		0.179	0.175	2.4	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/32 Calibration Date: 05/10/2018 03:09

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090032.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.54	2.52	2.56
3,5-Dichlorobenzoic acid	6.04	6.03	6.05
4-Nitrophenol	6.43	6.42	6.44
Dicamba	6.83	6.82	6.84
MCPP	6.88	6.87	6.89
MCPA	7.08	7.07	7.09
Dichlorprop	7.22	7.21	7.23
2,4-D	7.44	7.43	7.45
Pentachlorophenol	7.64	7.63	7.65
Silvex (2,4,5-TP)	7.77	7.76	7.78
2,4,5-T	8.01	8.00	8.02
Chloramben	8.08	8.07	8.09
Dinoseb	8.17	8.16	8.18
2,4-DB	8.22	8.21	8.23
Bentazon	8.58	8.57	8.59
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.69	8.68	8.70
Picloram	8.91	8.90	8.92
Acifluorfen	9.71	9.70	9.72
2,4-Dichlorophenylacetic acid (Surr)	6.75	6.74	6.76

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090032.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 10-May-2018 03:09:27 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-032
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:25:21 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:00:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	84541229	0.1750	0.1732	
2	2.541	2.540	0.001	248577594	0.1750	0.1764	
						RPD = 1.81	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	16933187	NC	NC	
2	5.029	5.028	0.001	87900761	NC	NC	
						RPD = 0.77	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	213170807	NC	NC	
2	5.702	5.700	0.002	884449932	NC	NC	
						RPD = 1.41	
4 3,5-Dichlorobenzoic acid							
1	6.046	6.047	-0.001	55764025	0.1750	0.1803	
2	6.041	6.040	0.001	292163936	0.1750	0.1806	
						RPD = 0.16	
5 4-Nitrophenol							
1	6.172	6.173	-0.001	18193697	0.1750	0.1827	
2	6.425	6.426	-0.001	52487575	0.1750	0.1687	
						RPD = 7.98	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	34960196	0.1750	0.1771	
2	6.753	6.752	0.001	222867006	0.1750	0.1791	
						RPD = 1.15	
7 Dicamba							
1	6.641	6.642	-0.001	89866501	0.0875	0.0912	
2	6.833	6.833	0.000	408629977	0.0875	0.0921	
						RPD = 1.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.789	6.789	0.000	12690638	17.5	19.6	
2	6.881	6.880	0.001	72255379	17.5	18.5	
						RPD = 5.39	
9 MCPA							
1	6.916	6.916	0.000	15191976	17.5	17.8	
2	7.079	7.078	0.001	147652533	17.5	18.9	
						RPD = 5.79	
10 Dichlorprop							
1	7.101	7.102	-0.001	45103906	0.1750	0.1761	
2	7.223	7.223	0.000	210811899	0.1750	0.1722	
						RPD = 2.22	
11 2,4-D							
1	7.244	7.246	-0.002	56100583	0.1750	0.1777	
2	7.443	7.443	0.000	258671532	0.1750	0.1772	
						RPD = 0.31	
12 Pentachlorophenol							
1	7.594	7.594	0.000	234148382	0.0438	0.0462	
2	7.638	7.637	0.001	803621097	0.0438	0.0477	
						RPD = 3.08	
13 Silvex (2,4,5-TP)							
1	7.691	7.692	-0.001	86605159	0.0438	0.0463	
2	7.773	7.774	-0.001	313800302	0.0438	0.0468	
						RPD = 1.05	
14 Chloramben							
1	7.769	7.770	-0.001	297678912	0.1750	0.1817	
2	8.081	8.081	0.000	1003940255	0.1750	0.1854	
						RPD = 2.05	
15 2,4,5-T							
1	7.846	7.848	-0.002	83531360	0.0438	0.0448	
2	8.006	8.008	-0.002	287592941	0.0438	0.0462	
						RPD = 2.97	
16 2,4-DB							
1	8.089	8.091	-0.002	31829065	0.1750	0.1806	
2	8.221	8.222	-0.001	150173632	0.1750	0.1711	
						RPD = 5.43	
17 Dinoseb							
1	8.143	8.144	-0.001	215505824	0.1750	0.1947	
2	8.173	8.173	0.000	661515837	0.1750	0.2016	
						RPD = 3.48	
18 Bentazon							
1	8.217	8.218	-0.001	45818485	0.1750	0.1780	
2	8.578	8.578	0.000	133431687	0.1750	0.1792	
						RPD = 0.66	
19 Picloram							
1	8.433	8.433	0.000	514363198	0.1750	0.1927	
2	8.913	8.913	0.000	1683046117	0.1750	0.2031	
						RPD = 5.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.537	8.537	0.000	533969585	0.1750	0.1882	
2	8.693	8.692	0.001	1724824181	0.1750	0.1937	
						RPD = 2.85	
21 Acifluorfen							
1	9.576	9.577	-0.001	431406882	0.1750	0.2120	
2	9.712	9.710	0.002	1304158427	0.1750	0.1824	
						RPD = 15.02	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

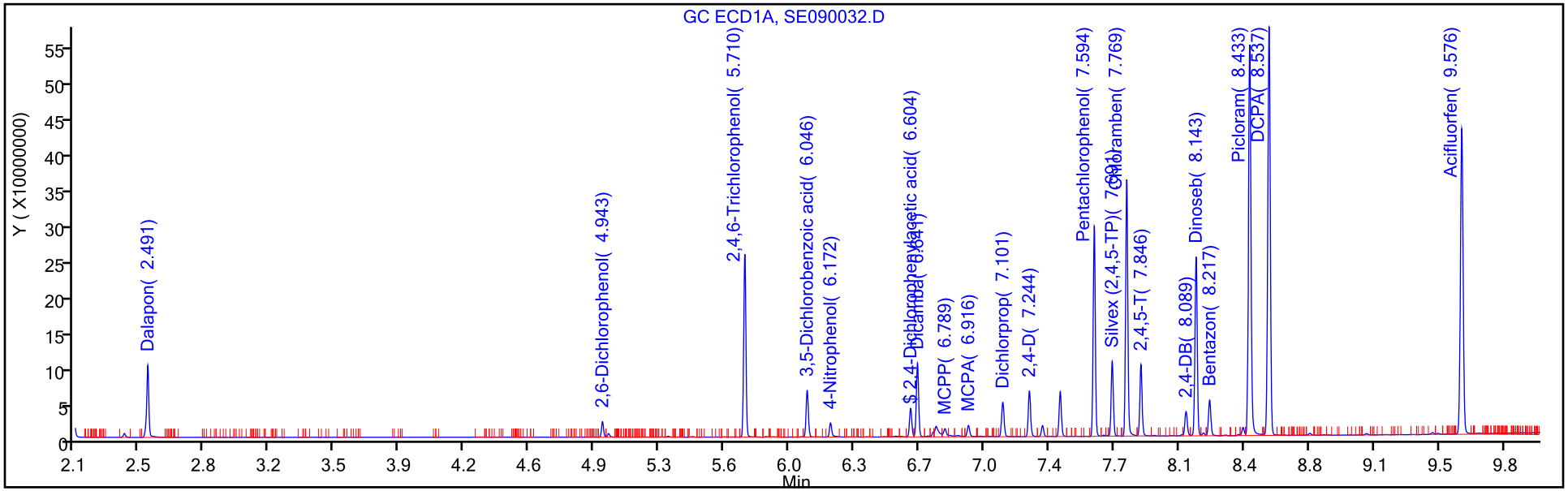
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TestAmerica Savannah

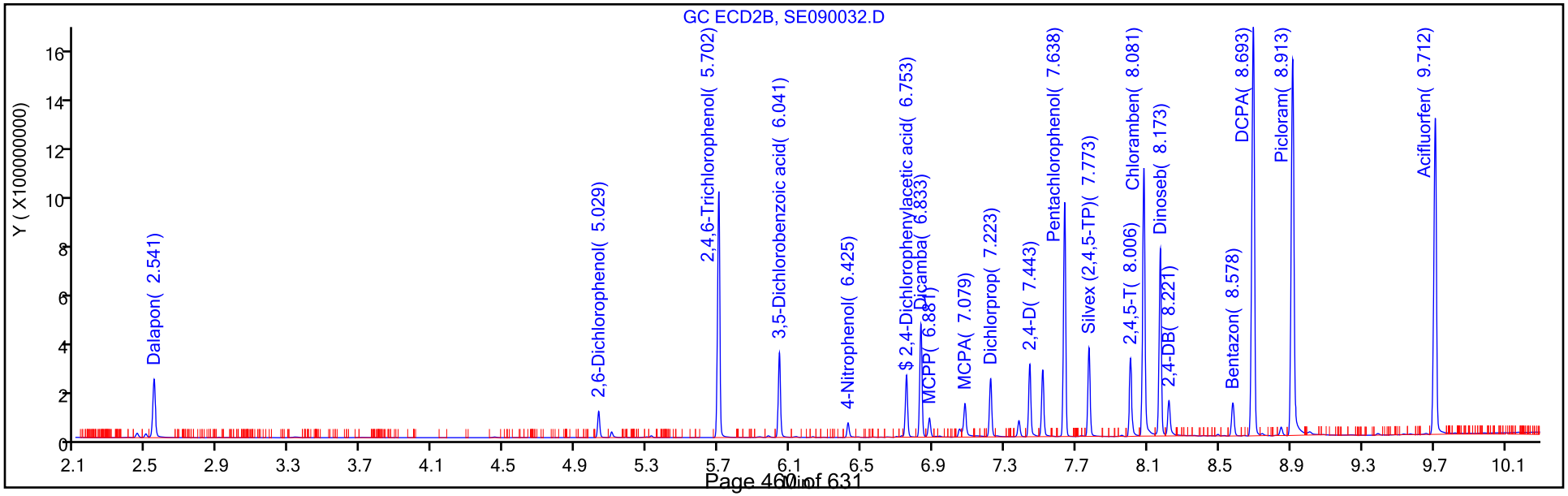
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Injection Date:	10-May-2018 03:09:27	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/47 Calibration Date: 05/10/2018 08:03

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090047.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Lin2		469960310		0.0943	0.100	-5.7	20.0
3,5-Dichlorobenzoic acid	Ave	309205739	309583470		0.100	0.100	0.1	20.0
4-Nitrophenol	Ave	99563067	105968570		0.106	0.100	6.4	20.0
Dicamba	Ave	985452559	961247540		0.0488	0.0500	-2.5	20.0
MCPP	Ave	648656	728975		11.2	10.0	12.4	20.0
MCPA	Lin2		778452		9.06	10.0	-9.4	20.0
Dichlorprop	Ave	256140387	245178430		0.0957	0.100	-4.3	20.0
2,4-D	Ave	315615394	300253550		0.0951	0.100	-4.9	20.0
Pentachlorophenol	Ave	5067705785	4851183840		0.0239	0.0250	-4.3	20.0
Silvex (2,4,5-TP)	Ave	1871206069	1746421360		0.0233	0.0250	-6.7	20.0
Chloramben	Ave	1638631616	1405450040		0.0858	0.100	-14.2	20.0
2,4,5-T	Ave	1864427231	1695212640		0.0227	0.0250	-9.1	20.0
2,4-DB	Ave	176196398	158954680		0.0902	0.100	-9.8	20.0
Dinoseb	Ave	1106610481	1053653720		0.0952	0.100	-4.8	20.0
Bentazon	Ave	257343496	210864440		0.0819	0.100	-18.1	20.0
Picloram	Ave	2669090691	2219969100		0.0832	0.100	-16.8	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	2836827415	2536966070		0.0894	0.100	-10.6	20.0
Acifluorfen	Ave	2034814874	1921921500		0.0945	0.100	-5.5	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	197437216	193483910		0.0980	0.100	-2.0	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/47 Calibration Date: 05/10/2018 08:03

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090047.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.49	2.47	2.51
3,5-Dichlorobenzoic acid	6.05	6.04	6.06
4-Nitrophenol	6.17	6.16	6.18
Dicamba	6.64	6.63	6.65
MCPP	6.79	6.78	6.80
MCPA	6.92	6.91	6.93
Dichlorprop	7.10	7.09	7.11
2,4-D	7.24	7.24	7.26
Pentachlorophenol	7.59	7.58	7.60
Silvex (2,4,5-TP)	7.69	7.68	7.70
Chloramben	7.77	7.76	7.78
2,4,5-T	7.85	7.84	7.86
2,4-DB	8.09	8.08	8.10
Dinoseb	8.14	8.13	8.15
Bentazon	8.22	8.21	8.23
Picloram	8.43	8.42	8.44
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.54	8.53	8.55
Acifluorfen	9.58	9.57	9.59
2,4-Dichlorophenylacetic acid (Surr)	6.60	6.59	6.61

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090047.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 10-May-2018 08:03:37 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-047
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	46996031	0.1000	0.0943	
2	2.540	2.540	0.000	136540399	0.1000	0.0969	
						RPD = 2.71	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	9554737	NC	NC	
2	5.029	5.028	0.001	49268048	NC	NC	
						RPD = 0.10	
3 2,4,6-Trichlorophenol							
1	5.709	5.710	-0.001	114614335	NC	NC	
2	5.700	5.700	0.000	477546813	NC	NC	
						RPD = 1.84	
4 3,5-Dichlorobenzoic acid							
1	6.046	6.047	-0.001	30958347	0.1000	0.1001	
2	6.039	6.040	-0.001	160306833	0.1000	0.0991	
						RPD = 1.02	
5 4-Nitrophenol							
1	6.173	6.173	0.000	10596857	0.1000	0.1064	
2	6.425	6.426	-0.001	30027658	0.1000	0.0965	
						RPD = 9.77	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	19348391	0.1000	0.0980	
2	6.752	6.752	0.000	121115819	0.1000	0.0973	
						RPD = 0.67	
7 Dicamba							
1	6.640	6.642	-0.002	48062377	0.0500	0.0488	
2	6.833	6.833	0.000	216289510	0.0500	0.0488	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.788	6.789	-0.001	7289747	10.0	11.2	
2	6.879	6.880	-0.001	40911067	10.0	10.1	
						RPD = 11.07	
9 MCPA							
1	6.915	6.916	-0.001	7784520	10.0	9.06	
2	7.078	7.078	0.000	84412748	10.0	10.3	
						RPD = 13.17	
10 Dichlorprop							
1	7.101	7.102	-0.001	24517843	0.1000	0.0957	
2	7.222	7.223	-0.001	109237101	0.1000	0.0892	
						RPD = 7.00	
11 2,4-D							
1	7.244	7.246	-0.002	30025355	0.1000	0.0951	
2	7.441	7.443	-0.002	133519333	0.1000	0.0915	
						RPD = 3.93	
12 Pentachlorophenol							
1	7.594	7.594	0.000	121279596	0.0250	0.0239	
2	7.637	7.637	0.000	418366792	0.0250	0.0248	
						RPD = 3.59	
13 Silvex (2,4,5-TP)							
1	7.691	7.692	-0.001	43660534	0.0250	0.0233	
2	7.773	7.774	-0.001	154753865	0.0250	0.0231	
						RPD = 1.15	
14 Chloramben							
1	7.769	7.770	-0.001	140545004	0.1000	0.0858	
2	8.079	8.081	-0.002	478196503	0.1000	0.0883	
						RPD = 2.93	
15 2,4,5-T							
1	7.846	7.848	-0.002	42380316	0.0250	0.0227	
2	8.005	8.008	-0.003	141406748	0.0250	0.0227	
						RPD = 0.17	
16 2,4-DB							
1	8.089	8.091	-0.002	15895468	0.1000	0.0902	
2	8.220	8.222	-0.002	75149130	0.1000	0.0856	
						RPD = 5.23	
17 Dinoseb							
1	8.143	8.144	-0.001	105365372	0.1000	0.0952	
2	8.172	8.173	-0.001	312200723	0.1000	0.0952	
						RPD = 0.05	
18 Bentazon							
1	8.216	8.218	-0.002	21086444	0.1000	0.0819	
2	8.578	8.578	0.000	62722419	0.1000	0.0842	
						RPD = 2.78	
19 Picloram							
1	8.432	8.433	-0.001	221996910	0.1000	0.0832	
2	8.912	8.913	-0.001	710169446	0.1000	0.0857	
						RPD = 3.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.535	8.537	-0.002	253696607	0.1000	0.0894	
2	8.691	8.692	-0.001	815830203	0.1000	0.0916	
						RPD = 2.40	
21 Acifluorfen							
1	9.575	9.577	-0.002	192192150	0.1000	0.0945	
2	9.709	9.710	-0.001	529952050	0.1000	0.0909	
						RPD = 3.85	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

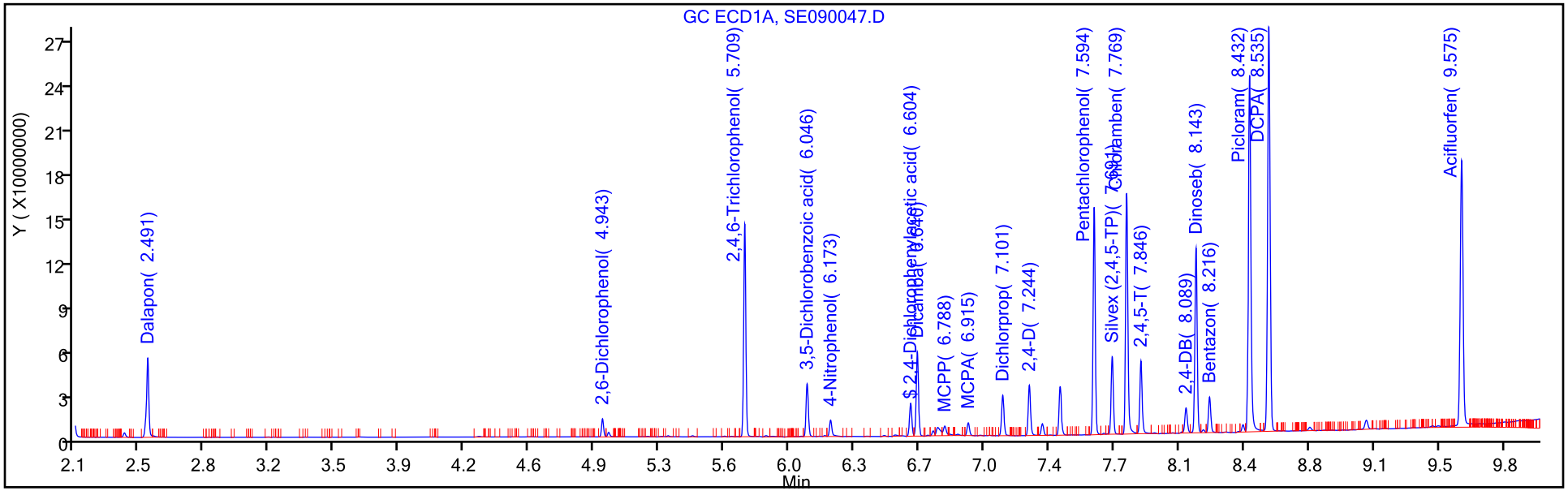
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TestAmerica Savannah

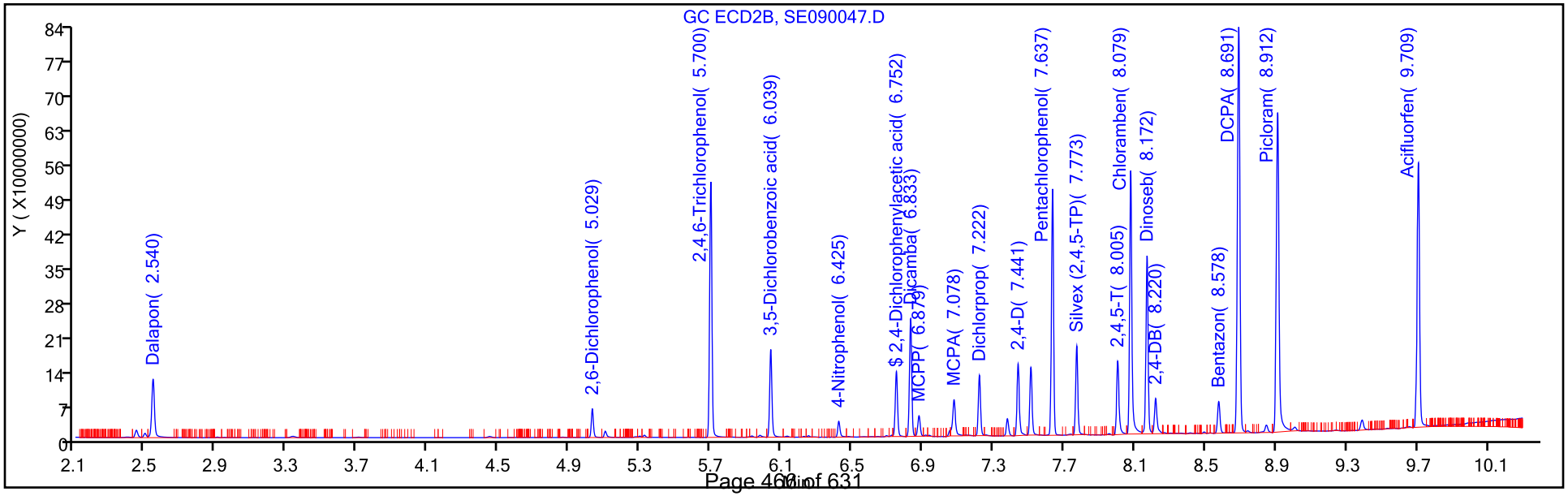
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090047.D

Injection Date:	10-May-2018 08:03:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h4			Worklist Smp#:	47
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/47 Calibration Date: 05/10/2018 08:03

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090047.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1409266868	1365403990		0.0969	0.100	-3.1	20.0
3,5-Dichlorobenzoic acid	Ave	1617456042	1603068330		0.0991	0.100	-0.9	20.0
4-Nitrophenol	Ave	311092218	300276580		0.0965	0.100	-3.5	20.0
Dicamba	Ave	4434710231	4325790200		0.0488	0.0500	-2.5	20.0
MCPP	Lin1		4091107		10.1	10.0	0.6	20.0
MCPA	Lin1		8441275		10.3	10.0	3.4	20.0
Dichlorprop	Ave	1224042756	1092371010		0.0892	0.100	-10.8	20.0
2,4-D	Ave	1459816204	1335193330		0.0915	0.100	-8.5	20.0
Pentachlorophenol	Ave	16865007870	16734671680		0.0248	0.0250	-0.8	20.0
Silvex (2,4,5-TP)	Ave	6709043454	6190154600		0.0231	0.0250	-7.7	20.0
2,4,5-T	Ave	6231494812	5656269920		0.0227	0.0250	-9.2	20.0
Chloramben	Ave	5414290225	4781965030		0.0883	0.100	-11.7	20.0
Dinoseb	Ave	3280538682	3122007230		0.0952	0.100	-4.8	20.0
2,4-DB	Ave	877738161	751491300		0.0856	0.100	-14.4	20.0
Bentazon	Ave	744502557	627224190		0.0842	0.100	-15.8	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	8906266754	8158302030		0.0916	0.100	-8.4	20.0
Picloram	Ave	8285688505	7101694460		0.0857	0.100	-14.3	20.0
Acifluorfen	Lin		5299520500		0.0909	0.100	-9.1	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1244249188	1211158190		0.0973	0.100	-2.7	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523317/47 Calibration Date: 05/10/2018 08:03

Instrument ID: CSGS Calib Start Date: 05/09/2018 17:59

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/09/2018 20:17

Lab File ID: SE090047.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.54	2.52	2.56
3,5-Dichlorobenzoic acid	6.04	6.03	6.05
4-Nitrophenol	6.43	6.42	6.44
Dicamba	6.83	6.82	6.84
MCPP	6.88	6.87	6.89
MCPA	7.08	7.07	7.09
Dichlorprop	7.22	7.21	7.23
2,4-D	7.44	7.43	7.45
Pentachlorophenol	7.64	7.63	7.65
Silvex (2,4,5-TP)	7.77	7.76	7.78
2,4,5-T	8.01	8.00	8.02
Chloramben	8.08	8.07	8.09
Dinoseb	8.17	8.16	8.18
2,4-DB	8.22	8.21	8.23
Bentazon	8.58	8.57	8.59
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.69	8.68	8.70
Picloram	8.91	8.90	8.92
Acifluorfen	9.71	9.70	9.72
2,4-Dichlorophenylacetic acid (Surr)	6.75	6.74	6.76

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090047.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 10-May-2018 08:03:37 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-047
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.491	2.491	0.000	46996031	0.1000	0.0943	
2	2.540	2.540	0.000	136540399	0.1000	0.0969	
						RPD = 2.71	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	9554737	NC	NC	
2	5.029	5.028	0.001	49268048	NC	NC	
						RPD = 0.10	
3 2,4,6-Trichlorophenol							
1	5.709	5.710	-0.001	114614335	NC	NC	
2	5.700	5.700	0.000	477546813	NC	NC	
						RPD = 1.84	
4 3,5-Dichlorobenzoic acid							
1	6.046	6.047	-0.001	30958347	0.1000	0.1001	
2	6.039	6.040	-0.001	160306833	0.1000	0.0991	
						RPD = 1.02	
5 4-Nitrophenol							
1	6.173	6.173	0.000	10596857	0.1000	0.1064	
2	6.425	6.426	-0.001	30027658	0.1000	0.0965	
						RPD = 9.77	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	19348391	0.1000	0.0980	
2	6.752	6.752	0.000	121115819	0.1000	0.0973	
						RPD = 0.67	
7 Dicamba							
1	6.640	6.642	-0.002	48062377	0.0500	0.0488	
2	6.833	6.833	0.000	216289510	0.0500	0.0488	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.788	6.789	-0.001	7289747	10.0	11.2	
2	6.879	6.880	-0.001	40911067	10.0	10.1	
						RPD = 11.07	
9 MCPA							
1	6.915	6.916	-0.001	7784520	10.0	9.06	
2	7.078	7.078	0.000	84412748	10.0	10.3	
						RPD = 13.17	
10 Dichlorprop							
1	7.101	7.102	-0.001	24517843	0.1000	0.0957	
2	7.222	7.223	-0.001	109237101	0.1000	0.0892	
						RPD = 7.00	
11 2,4-D							
1	7.244	7.246	-0.002	30025355	0.1000	0.0951	
2	7.441	7.443	-0.002	133519333	0.1000	0.0915	
						RPD = 3.93	
12 Pentachlorophenol							
1	7.594	7.594	0.000	121279596	0.0250	0.0239	
2	7.637	7.637	0.000	418366792	0.0250	0.0248	
						RPD = 3.59	
13 Silvex (2,4,5-TP)							
1	7.691	7.692	-0.001	43660534	0.0250	0.0233	
2	7.773	7.774	-0.001	154753865	0.0250	0.0231	
						RPD = 1.15	
14 Chloramben							
1	7.769	7.770	-0.001	140545004	0.1000	0.0858	
2	8.079	8.081	-0.002	478196503	0.1000	0.0883	
						RPD = 2.93	
15 2,4,5-T							
1	7.846	7.848	-0.002	42380316	0.0250	0.0227	
2	8.005	8.008	-0.003	141406748	0.0250	0.0227	
						RPD = 0.17	
16 2,4-DB							
1	8.089	8.091	-0.002	15895468	0.1000	0.0902	
2	8.220	8.222	-0.002	75149130	0.1000	0.0856	
						RPD = 5.23	
17 Dinoseb							
1	8.143	8.144	-0.001	105365372	0.1000	0.0952	
2	8.172	8.173	-0.001	312200723	0.1000	0.0952	
						RPD = 0.05	
18 Bentazon							
1	8.216	8.218	-0.002	21086444	0.1000	0.0819	
2	8.578	8.578	0.000	62722419	0.1000	0.0842	
						RPD = 2.78	
19 Picloram							
1	8.432	8.433	-0.001	221996910	0.1000	0.0832	
2	8.912	8.913	-0.001	710169446	0.1000	0.0857	
						RPD = 3.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.535	8.537	-0.002	253696607	0.1000	0.0894	
2	8.691	8.692	-0.001	815830203	0.1000	0.0916	
						RPD = 2.40	
21 Acifluorfen							
1	9.575	9.577	-0.002	192192150	0.1000	0.0945	
2	9.709	9.710	-0.001	529952050	0.1000	0.0909	
						RPD = 3.85	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

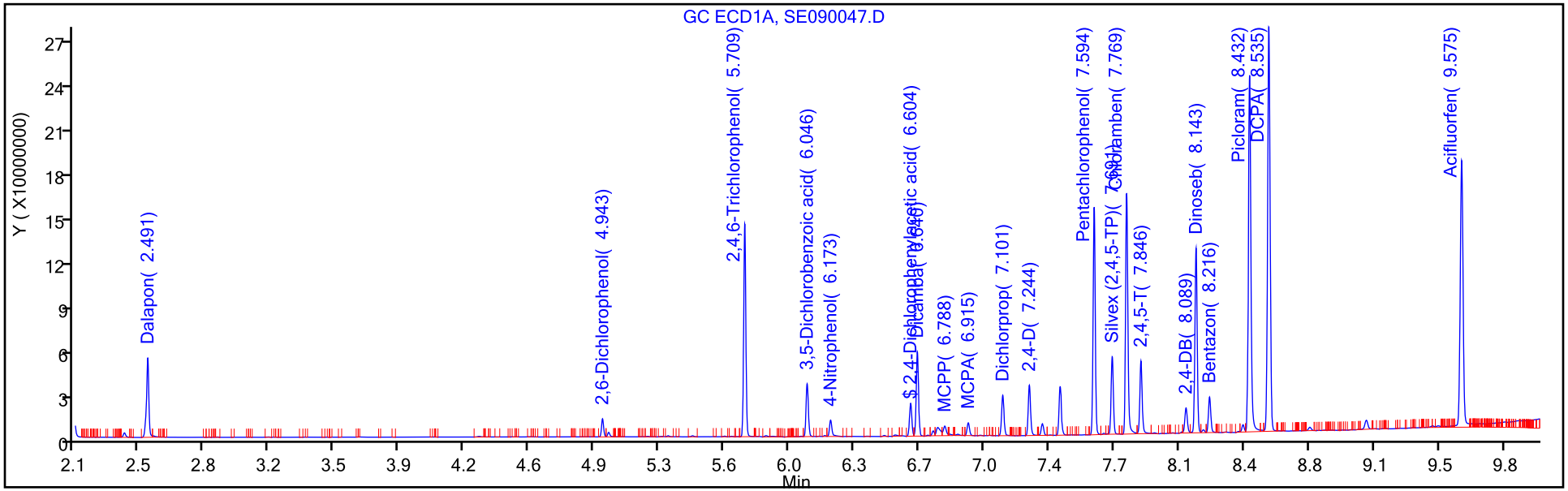
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TestAmerica Savannah

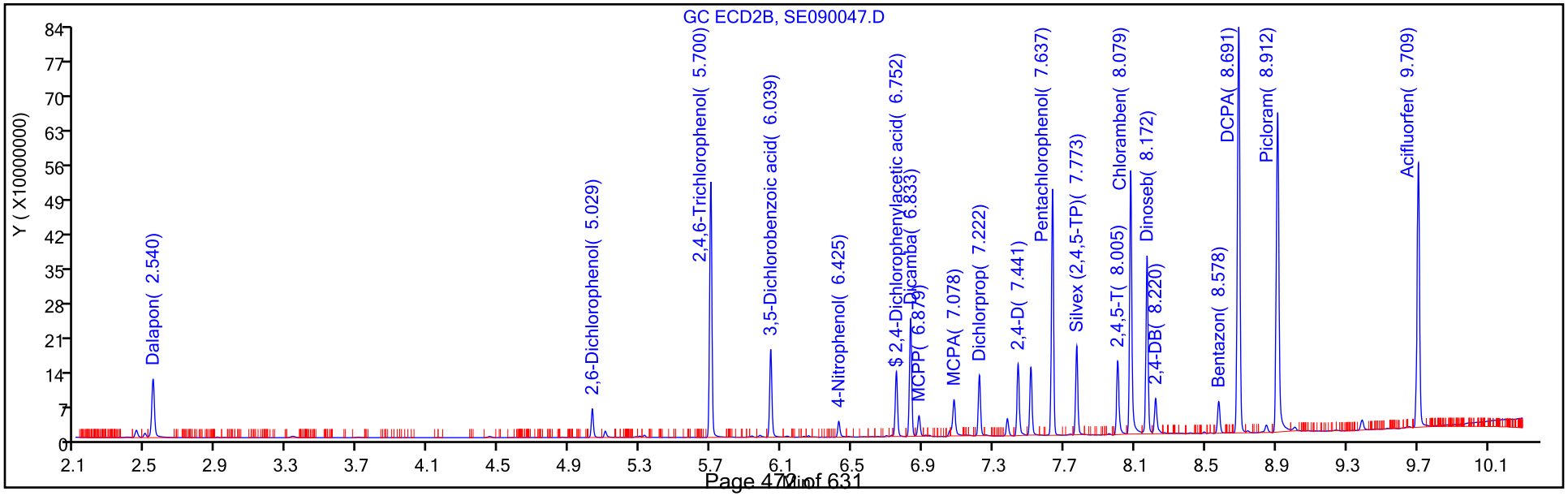
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Injection Date:	10-May-2018 08:03:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h4			Worklist Smp#:	47
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523572/12 Calibration Date: 05/11/2018 14:23

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Lin2		415152560		0.168	0.175	-3.9	20.0
3,5-Dichlorobenzoic acid	Ave	283999151	281315046		0.173	0.175	-0.9	20.0
4-Nitrophenol	Ave	92446979	95302463		0.180	0.175	3.1	20.0
Dicamba	Ave	902628145	899377760		0.0872	0.0875	-0.4	20.0
MCPP	Ave	597922	640092		18.7	17.5	7.1	20.0
MCPA	Lin1		769661		19.4	17.5	10.7	20.0
Dichlorprop	Ave	230133436	223367034		0.170	0.175	-2.9	20.0
2,4-D	Ave	273146870	267442800		0.171	0.175	-2.1	20.0
Pentachlorophenol	Ave	4371457736	4435690926		0.0444	0.0438	1.5	20.0
Silvex (2,4,5-TP)	Ave	1596048239	1627692617		0.0446	0.0438	2.0	20.0
Chloramben	Ave	1354357931	1374551514		0.178	0.175	1.5	20.0
2,4,5-T	Ave	1551041319	1571778331		0.0443	0.0438	1.3	20.0
2,4-DB	Ave	145729072	146248457		0.176	0.175	0.4	20.0
Dinoseb	Ave	906941545	917696446		0.177	0.175	1.2	20.0
Bentazon	Ave	221195610	216692486		0.171	0.175	-2.0	20.0
Picloram	Ave	2262537728	2231508577		0.181	0.175	-1.4	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	2413841684	2435233034		0.177	0.175	0.9	20.0
Acifluorfen	Qua		1712252269		0.166	0.175	-5.2	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	171928410	175445326		0.179	0.175	2.0	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523572/12 Calibration Date: 05/11/2018 14:23

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.44	2.41	2.45
3,5-Dichlorobenzoic acid	6.01	6.01	6.03
4-Nitrophenol	6.14	6.13	6.15
Dicamba	6.61	6.60	6.62
MCPP	6.76	6.75	6.77
MCPA	6.88	6.87	6.89
Dichlorprop	7.07	7.06	7.08
2,4-D	7.21	7.20	7.22
Pentachlorophenol	7.56	7.55	7.57
Silvex (2,4,5-TP)	7.66	7.65	7.67
Chloramben	7.74	7.73	7.75
2,4,5-T	7.82	7.81	7.83
2,4-DB	8.06	8.05	8.07
Dinoseb	8.11	8.10	8.12
Bentazon	8.18	8.17	8.19
Picloram	8.40	8.39	8.41
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.50	8.49	8.51
Acifluorfen	9.54	9.53	9.55
2,4-Dichlorophenylacetic acid (Surr)	6.57	6.56	6.58

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2018 14:23:54 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 15:48:36 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 11-May-2018 15:40:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.437	2.434	0.003	72651698	0.1750	0.1683	
2	2.489	2.487	0.002	223460880	0.1750	0.1612	
						RPD = 4.28	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	15388626	NC	NC	
2	4.997	4.996	0.001	77994557	NC	NC	
						RPD = 11.14	
3 2,4,6-Trichlorophenol							M
1	5.678	5.678	0.000	186321398	NC	NC	
2	5.669	5.668	0.001	772677793	NC	NC	M
						RPD = 3.79	
4 3,5-Dichlorobenzoic acid							M
1	6.014	6.015	-0.001	49230133	0.1750	0.1733	
2	6.009	6.009	0.000	253614433	0.1750	0.1653	M
						RPD = 4.73	
5 4-Nitrophenol							M
1	6.140	6.141	-0.001	16677931	0.1750	0.1804	
2	6.393	6.394	-0.001	42375809	0.1750	0.1660	M
						RPD = 8.34	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.572	6.572	0.000	30702932	0.1750	0.1786	
2	6.719	6.720	-0.001	195113343	0.1750	0.1708	M
						RPD = 4.45	
7 Dicamba							M
1	6.608	6.609	-0.001	78695554	0.0875	0.0872	
2	6.800	6.800	0.000	359979206	0.0875	0.0848	M
						RPD = 2.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.757	6.757	0.000	11201613	17.5	18.7	
2	6.849	6.848	0.001	66188230	17.5	17.0	M
						RPD = 9.77	
9 MCPA							M
1	6.884	6.883	0.001	13469065	17.5	19.4	
2	7.047	7.046	0.001	125220404	17.5	16.8	M
						RPD = 14.29	
10 Dichlorprop							M
1	7.069	7.069	0.000	39089231	0.1750	0.1699	
2	7.191	7.191	0.000	183879182	0.1750	0.1604	M
						RPD = 5.73	
11 2,4-D							M
1	7.213	7.214	-0.001	46802490	0.1750	0.1713	
2	7.411	7.412	-0.001	220136421	0.1750	0.1749	M
						RPD = 2.04	
12 Pentachlorophenol							M
1	7.562	7.562	0.000	194061478	0.0438	0.0444	
2	7.605	7.605	0.000	696751567	0.0438	0.0444	M
						RPD = 0.11	
13 Silvex (2,4,5-TP)							M
1	7.661	7.661	0.000	71211552	0.0438	0.0446	
2	7.744	7.744	0.000	266557621	0.0438	0.0441	M
						RPD = 1.07	
14 Chloramben							M
1	7.738	7.739	-0.001	240546515	0.1750	0.1776	
2	8.049	8.049	0.000	842916070	0.1750	0.1781	M
						RPD = 0.27	
15 2,4,5-T							M
1	7.816	7.816	0.000	68765302	0.0438	0.0443	
2	7.976	7.976	0.000	232256864	0.0438	0.0453	M
						RPD = 2.08	
16 2,4-DB							M
1	8.059	8.059	0.000	25593480	0.1750	0.1756	
2	8.189	8.190	-0.001	123400421	0.1750	0.1697	M
						RPD = 3.45	
17 Dinoseb							M
1	8.112	8.113	-0.001	160596878	0.1750	0.1771	
2	8.141	8.141	0.000	480425704	0.1750	0.1625	M
						RPD = 8.61	
18 Bentazon							M
1	8.184	8.184	0.000	37921185	0.1750	0.1714	
2	8.544	8.544	0.000	120950385	0.1750	0.1717	M
						RPD = 0.15	
19 Picloram							M
1	8.399	8.399	0.000	390514001	0.1750	0.1810	
2	8.876	8.877	-0.001	1268832439	0.1750	0.1765	M
						RPD = 2.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.503	8.504	-0.001	426165781	0.1750	0.1766	
2	8.658	8.658	0.000	1442357771	0.1750	0.1777	M
						RPD = 0.64	
21 Acifluorfen							M
1	9.541	9.543	-0.002	299644147	0.1750	0.1659	
2	9.678	9.677	0.001	858463960	0.1750	0.1473	M
						RPD = 11.83	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

Report Date: 11-May-2018 15:48:40 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D

Injection Date: 11-May-2018 14:23:54 Instrument ID: CSGS Operator ID: GEM

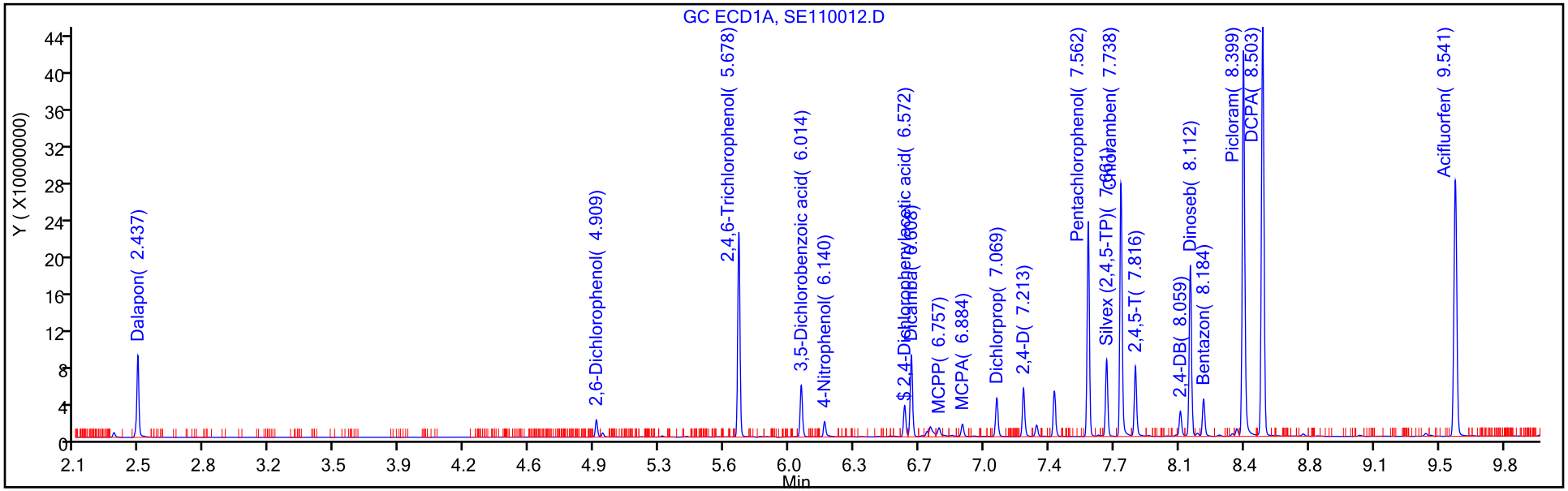
Lims ID: icv herb Worklist Smp#: 12

Client ID:

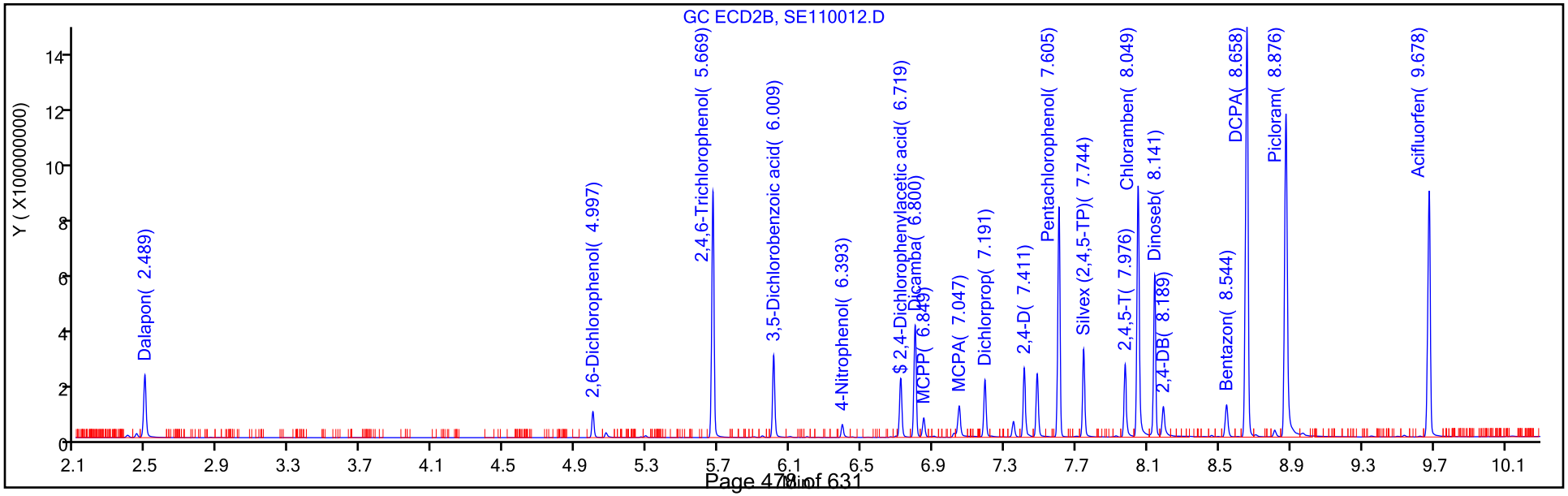
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 12

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523572/12 Calibration Date: 05/11/2018 14:23

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1386204194	1276919314		0.161	0.175	-7.9	20.0
3,5-Dichlorobenzoic acid	Ave	1533919679	1449225331		0.165	0.175	-5.5	20.0
4-Nitrophenol	Ave	255346659	242147480		0.166	0.175	-5.2	20.0
Dicamba	Ave	4244164919	4114048069		0.0848	0.0875	-3.1	20.0
MCPP	Lin1		3782185		17.0	17.5	-2.9	20.0
MCPA	Lin2		7155452		16.8	17.5	-4.1	20.0
Dichlorprop	Ave	1146405622	1050738183		0.160	0.175	-8.3	20.0
2,4-D	Ave	1258856811	1257922406		0.175	0.175	-0.0	20.0
Pentachlorophenol	Ave	15678491137	15925750103		0.0444	0.0438	1.6	20.0
Silvex (2,4,5-TP)	Ave	6038823762	6092745623		0.0441	0.0438	0.9	20.0
2,4,5-T	Ave	5130951653	5308728320		0.0453	0.0438	3.5	20.0
Chloramben	Ave	4732944977	4816663257		0.178	0.175	1.8	20.0
Dinoseb	Qua		2745289737		0.162	0.175	-7.2	20.0
2,4-DB	Ave	727274265	705145263		0.170	0.175	-3.0	20.0
Bentazon	Ave	704477021	691145057		0.172	0.175	-1.9	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	8117747515	8242044406		0.178	0.175	1.5	20.0
Picloram	Lin1		7250471080		0.176	0.175	0.9	20.0
Acifluorfen	Qua		4905508343		0.147	0.175	-15.8	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1142358705	1114933389		0.171	0.175	-2.4	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: ICV 680-523572/12 Calibration Date: 05/11/2018 14:23

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.49	2.47	2.51
3,5-Dichlorobenzoic acid	6.01	6.00	6.02
4-Nitrophenol	6.39	6.38	6.40
Dicamba	6.80	6.79	6.81
MCPP	6.85	6.84	6.86
MCPA	7.05	7.04	7.06
Dichlorprop	7.19	7.18	7.20
2,4-D	7.41	7.40	7.42
Pentachlorophenol	7.61	7.60	7.62
Silvex (2,4,5-TP)	7.74	7.73	7.75
2,4,5-T	7.98	7.97	7.99
Chloramben	8.05	8.04	8.06
Dinoseb	8.14	8.13	8.15
2,4-DB	8.19	8.18	8.20
Bentazon	8.54	8.53	8.55
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.66	8.65	8.67
Picloram	8.88	8.87	8.89
Acifluorfen	9.68	9.67	9.69
2,4-Dichlorophenylacetic acid (Surr)	6.72	6.71	6.73

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2018 14:23:54 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 11-May-2018 15:48:36 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 11-May-2018 15:40:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.437	2.434	0.003	72651698	0.1750	0.1683	
2	2.489	2.487	0.002	223460880	0.1750	0.1612	
						RPD = 4.28	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	15388626	NC	NC	
2	4.997	4.996	0.001	77994557	NC	NC	
						RPD = 11.14	
3 2,4,6-Trichlorophenol							M
1	5.678	5.678	0.000	186321398	NC	NC	
2	5.669	5.668	0.001	772677793	NC	NC	M
						RPD = 3.79	
4 3,5-Dichlorobenzoic acid							M
1	6.014	6.015	-0.001	49230133	0.1750	0.1733	
2	6.009	6.009	0.000	253614433	0.1750	0.1653	M
						RPD = 4.73	
5 4-Nitrophenol							M
1	6.140	6.141	-0.001	16677931	0.1750	0.1804	
2	6.393	6.394	-0.001	42375809	0.1750	0.1660	M
						RPD = 8.34	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.572	6.572	0.000	30702932	0.1750	0.1786	
2	6.719	6.720	-0.001	195113343	0.1750	0.1708	M
						RPD = 4.45	
7 Dicamba							M
1	6.608	6.609	-0.001	78695554	0.0875	0.0872	
2	6.800	6.800	0.000	359979206	0.0875	0.0848	M
						RPD = 2.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.757	6.757	0.000	11201613	17.5	18.7	
2	6.849	6.848	0.001	66188230	17.5	17.0	M
						RPD = 9.77	
9 MCPA							M
1	6.884	6.883	0.001	13469065	17.5	19.4	
2	7.047	7.046	0.001	125220404	17.5	16.8	M
						RPD = 14.29	
10 Dichlorprop							M
1	7.069	7.069	0.000	39089231	0.1750	0.1699	
2	7.191	7.191	0.000	183879182	0.1750	0.1604	M
						RPD = 5.73	
11 2,4-D							M
1	7.213	7.214	-0.001	46802490	0.1750	0.1713	
2	7.411	7.412	-0.001	220136421	0.1750	0.1749	M
						RPD = 2.04	
12 Pentachlorophenol							M
1	7.562	7.562	0.000	194061478	0.0438	0.0444	
2	7.605	7.605	0.000	696751567	0.0438	0.0444	M
						RPD = 0.11	
13 Silvex (2,4,5-TP)							M
1	7.661	7.661	0.000	71211552	0.0438	0.0446	
2	7.744	7.744	0.000	266557621	0.0438	0.0441	M
						RPD = 1.07	
14 Chloramben							M
1	7.738	7.739	-0.001	240546515	0.1750	0.1776	
2	8.049	8.049	0.000	842916070	0.1750	0.1781	M
						RPD = 0.27	
15 2,4,5-T							M
1	7.816	7.816	0.000	68765302	0.0438	0.0443	
2	7.976	7.976	0.000	232256864	0.0438	0.0453	M
						RPD = 2.08	
16 2,4-DB							M
1	8.059	8.059	0.000	25593480	0.1750	0.1756	
2	8.189	8.190	-0.001	123400421	0.1750	0.1697	M
						RPD = 3.45	
17 Dinoseb							M
1	8.112	8.113	-0.001	160596878	0.1750	0.1771	
2	8.141	8.141	0.000	480425704	0.1750	0.1625	M
						RPD = 8.61	
18 Bentazon							M
1	8.184	8.184	0.000	37921185	0.1750	0.1714	
2	8.544	8.544	0.000	120950385	0.1750	0.1717	M
						RPD = 0.15	
19 Picloram							M
1	8.399	8.399	0.000	390514001	0.1750	0.1810	
2	8.876	8.877	-0.001	1268832439	0.1750	0.1765	M
						RPD = 2.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.503	8.504	-0.001	426165781	0.1750	0.1766	
2	8.658	8.658	0.000	1442357771	0.1750	0.1777	M
						RPD = 0.64	
21 Acifluorfen							M
1	9.541	9.543	-0.002	299644147	0.1750	0.1659	
2	9.678	9.677	0.001	858463960	0.1750	0.1473	M
						RPD = 11.83	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

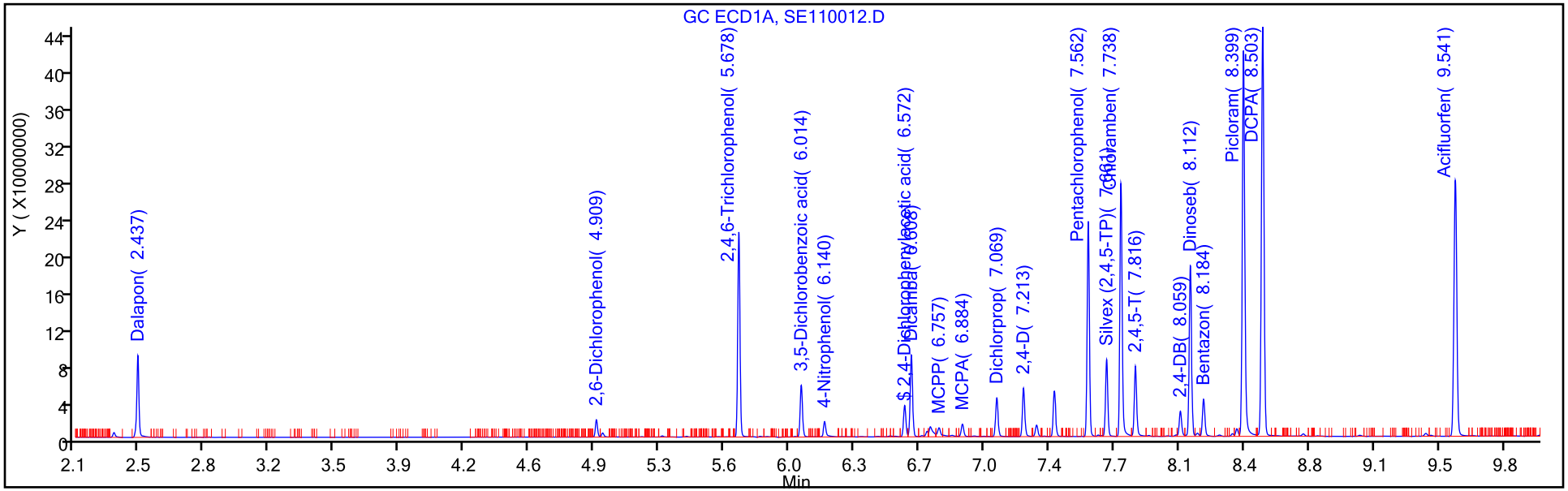
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TestAmerica Savannah

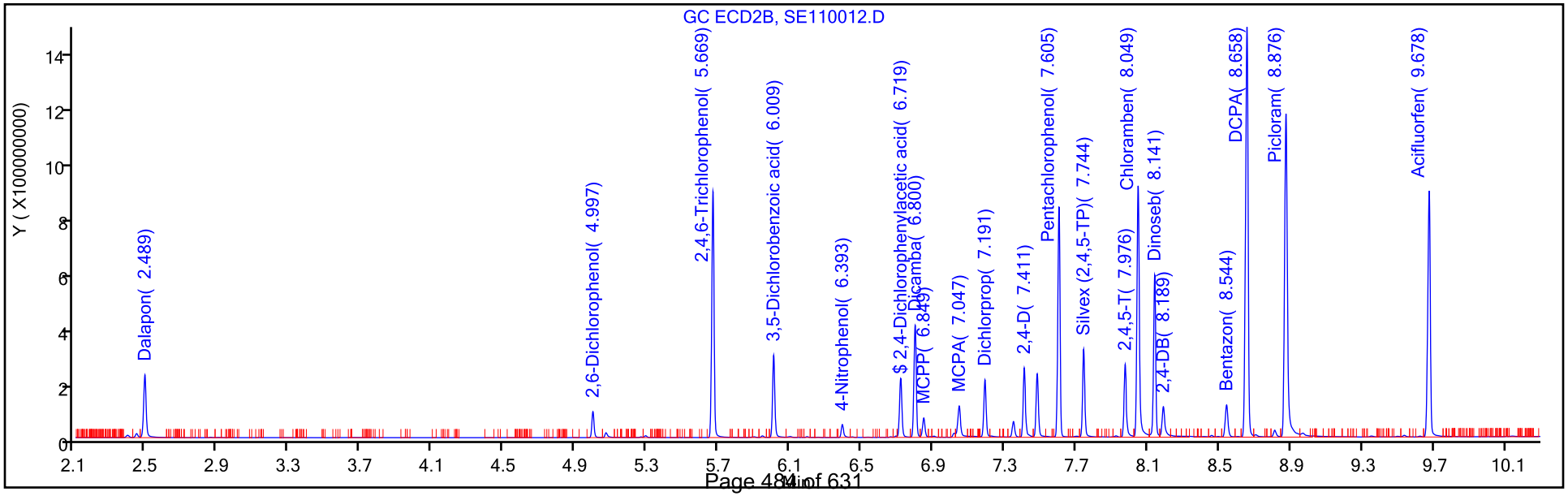
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Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	icv herb			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

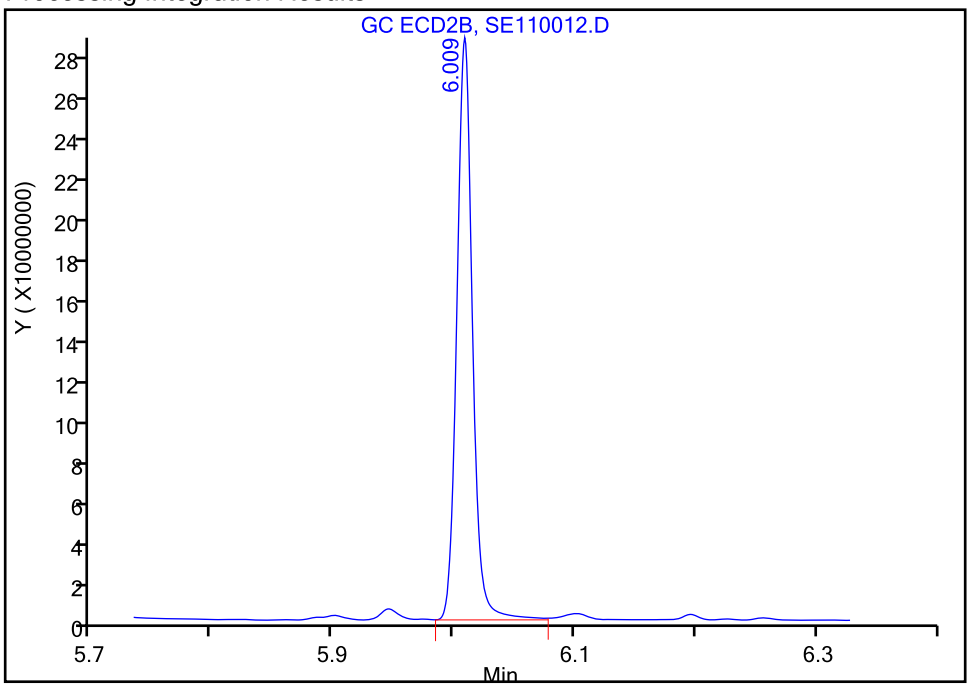
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

4 3,5-Dichlorobenzoic acid, CAS: 51-36-5

Signal: 2

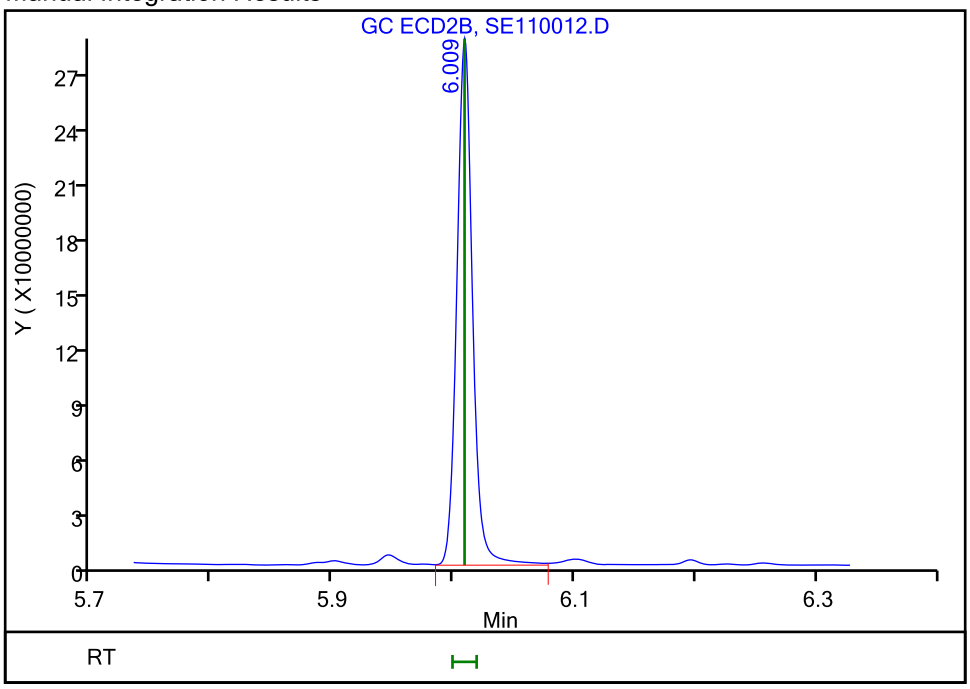
Processing Integration Results

RT: 6.01
Area: 252592455
Amount: 0.164671
Amount Units: ug/ml



Manual Integration Results

RT: 6.01
Area: 253614433
Amount: 0.165337
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

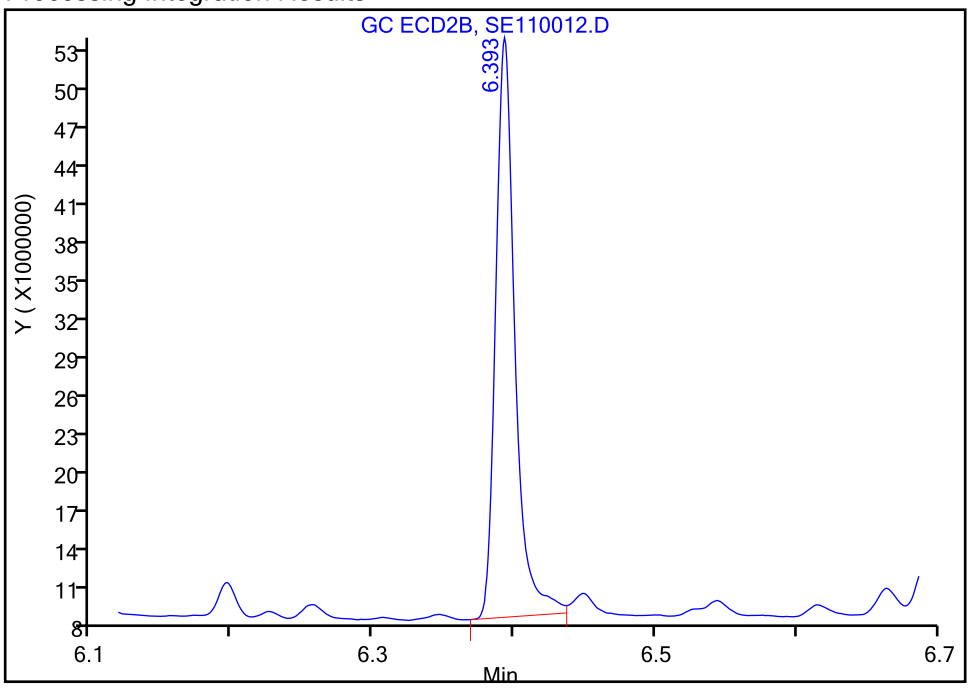
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Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

5 4-Nitrophenol, CAS: 100-02-7

Signal: 2

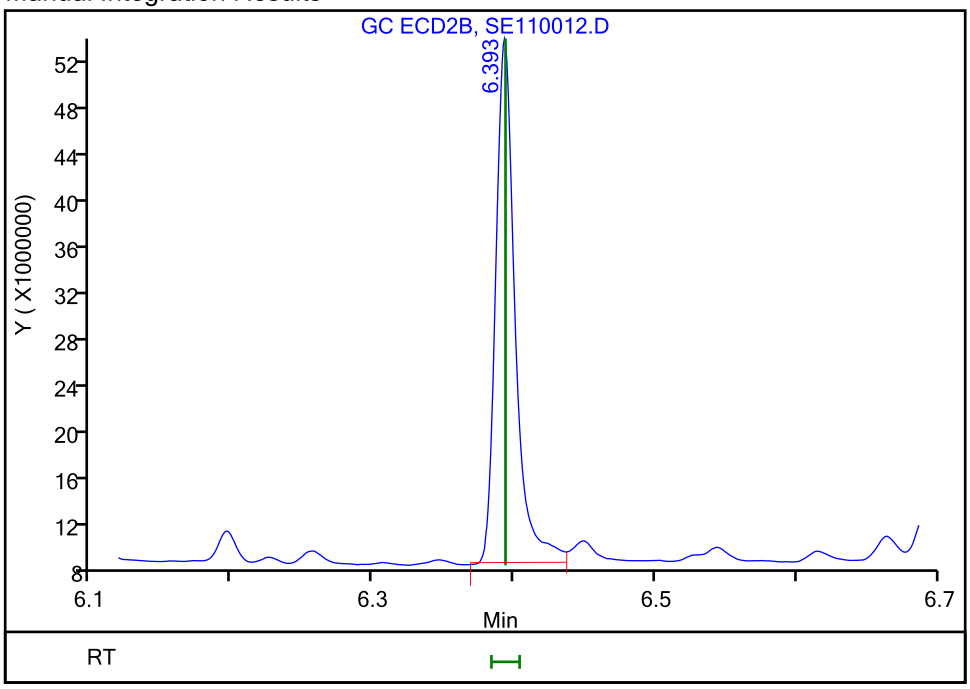
Processing Integration Results

RT: 6.39
Area: 42065720
Amount: 0.164740
Amount Units: ug/ml



Manual Integration Results

RT: 6.39
Area: 42375809
Amount: 0.165954
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

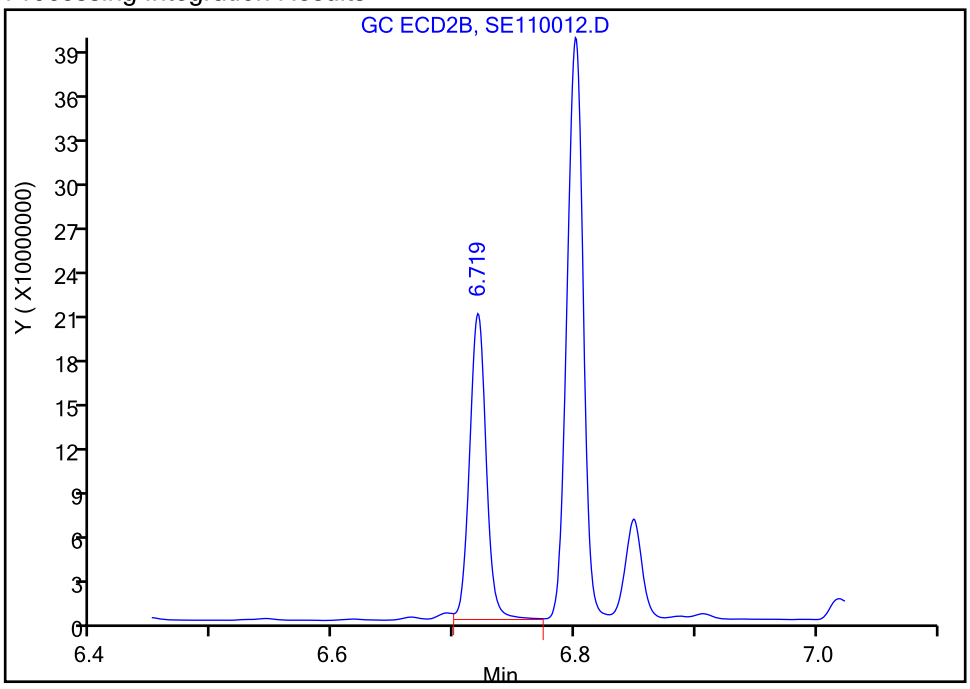
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D
Injection Date: 11-May-2018 14:23:54 Instrument ID: CSGS
Lims ID: icv herb
Client ID:
Operator ID: GEM ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

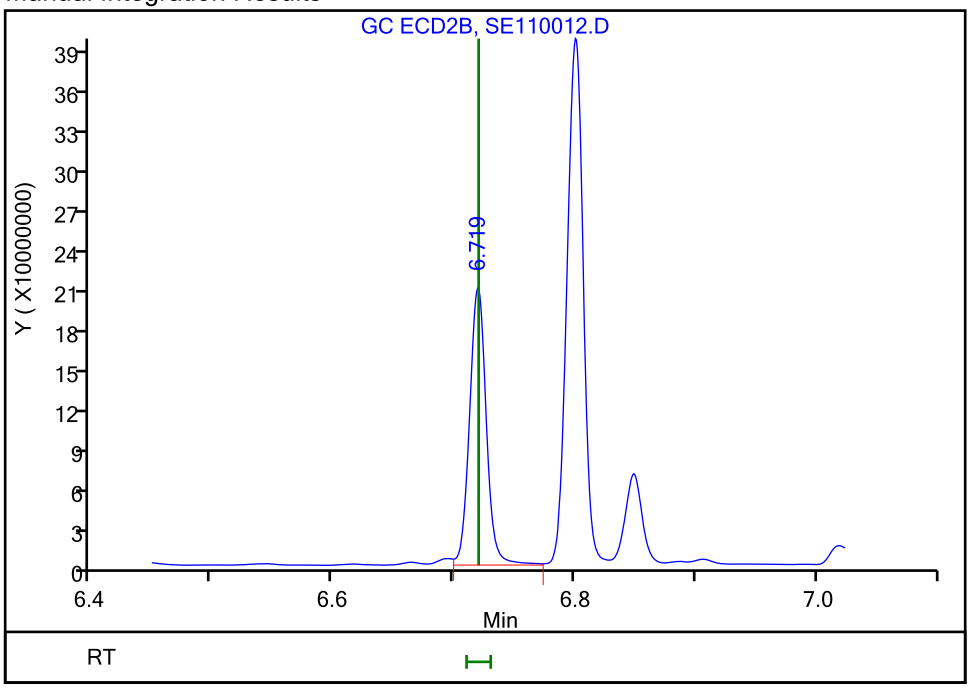
Processing Integration Results

RT: 6.72
Area: 193137405
Amount: 0.169069
Amount Units: ug/ml



Manual Integration Results

RT: 6.72
Area: 195113343
Amount: 0.170799
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

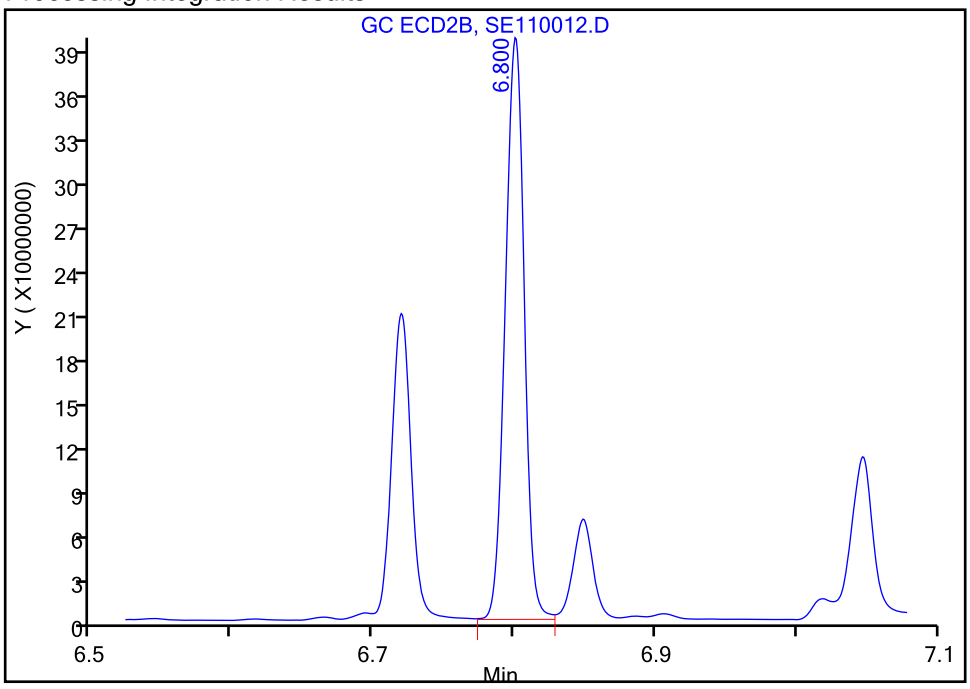
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

7 Dicamba, CAS: 1918-00-9

Signal: 2

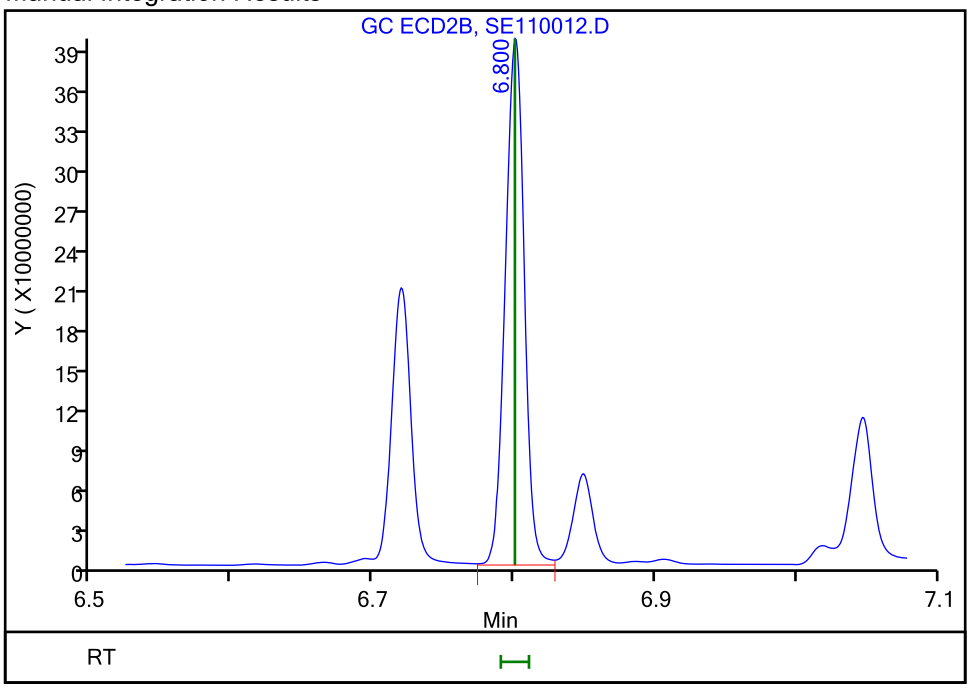
Processing Integration Results

RT: 6.80
Area: 358438760
Amount: 0.084454
Amount Units: ug/ml



Manual Integration Results

RT: 6.80
Area: 359979206
Amount: 0.084817
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

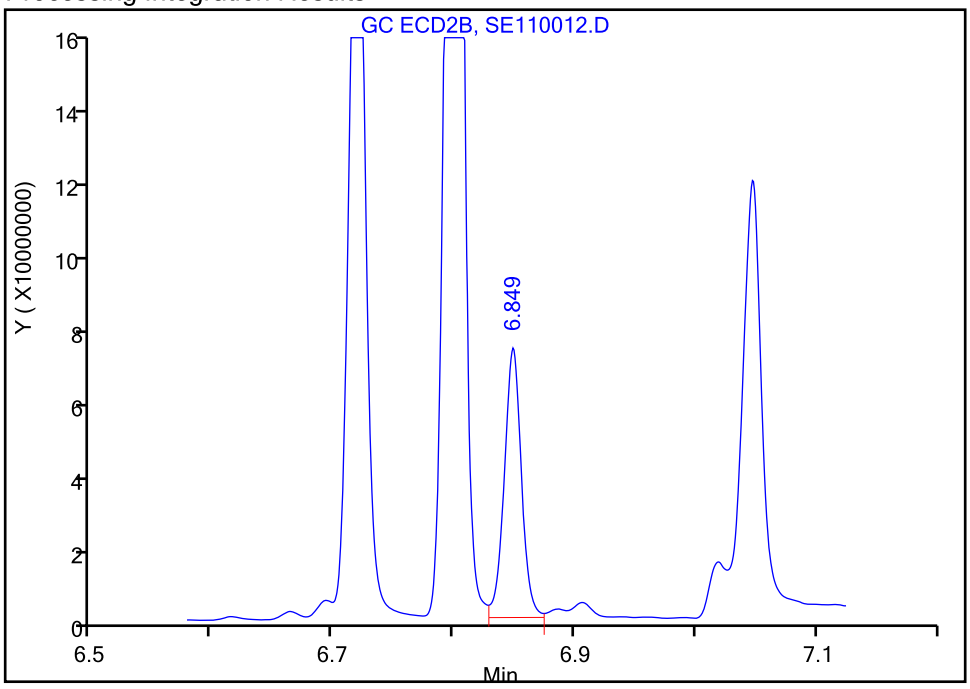
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D
Injection Date: 11-May-2018 14:23:54 Instrument ID: CSGS
Lims ID: icv herb
Client ID:
Operator ID: GEM ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

8 MCPP, CAS: 93-65-2

Signal: 2

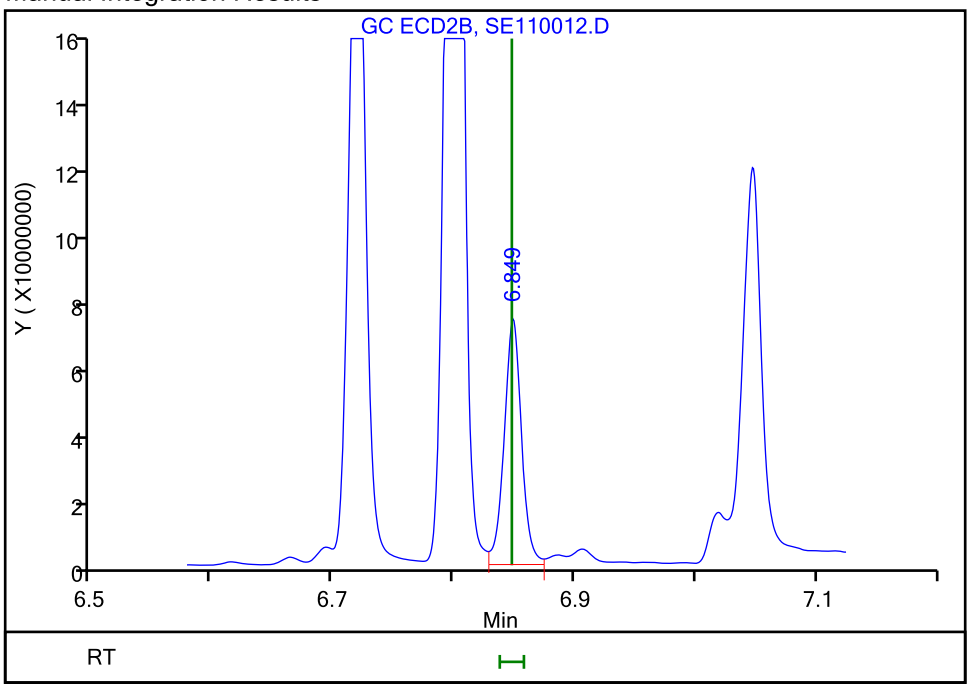
Processing Integration Results

RT: 6.85
Area: 64786756
Amount: 16.701882
Amount Units: ug/ml



Manual Integration Results

RT: 6.85
Area: 66188230
Amount: 16.989962
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

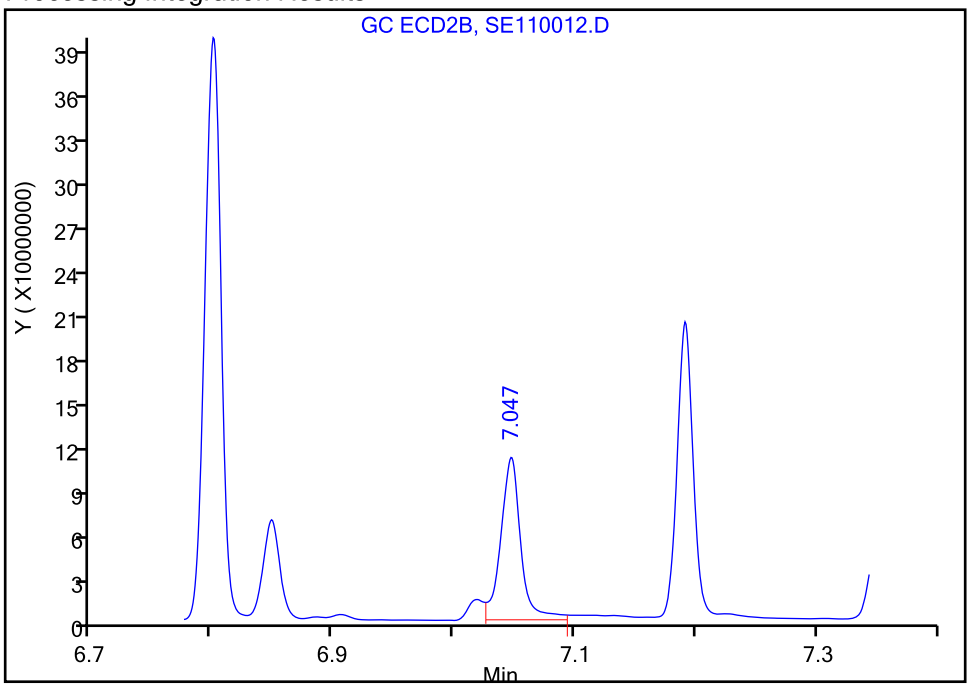
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D
Injection Date: 11-May-2018 14:23:54 Instrument ID: CSGS
Lims ID: icv herb
Client ID:
Operator ID: GEM ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

9 MCPA, CAS: 94-74-6

Signal: 2

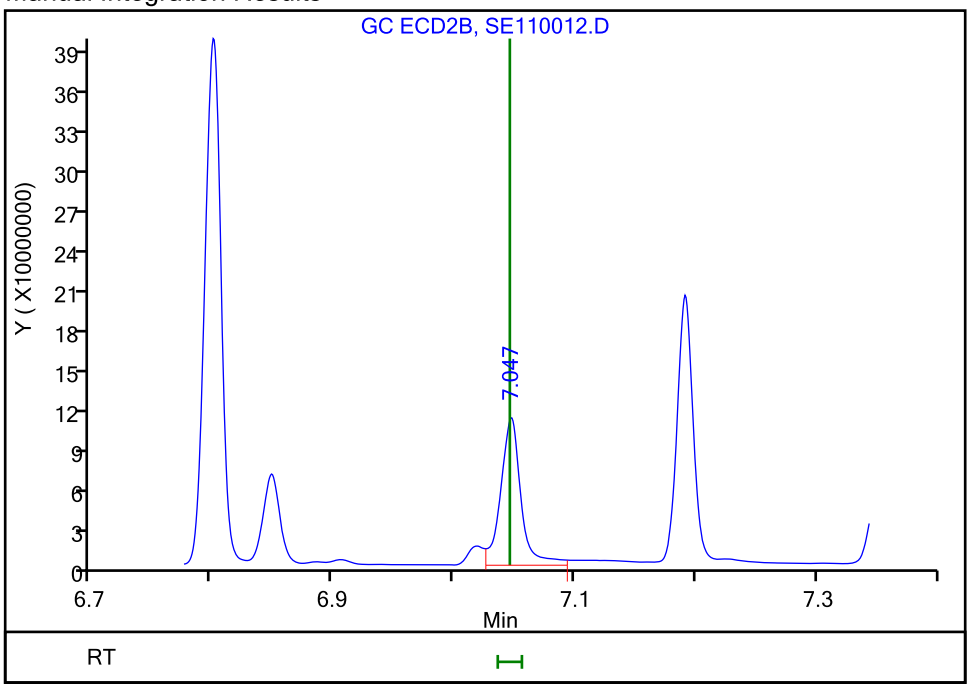
Processing Integration Results

RT: 7.05
Area: 122784637
Amount: 16.440801
Amount Units: ug/ml



Manual Integration Results

RT: 7.05
Area: 125220404
Amount: 16.783740
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

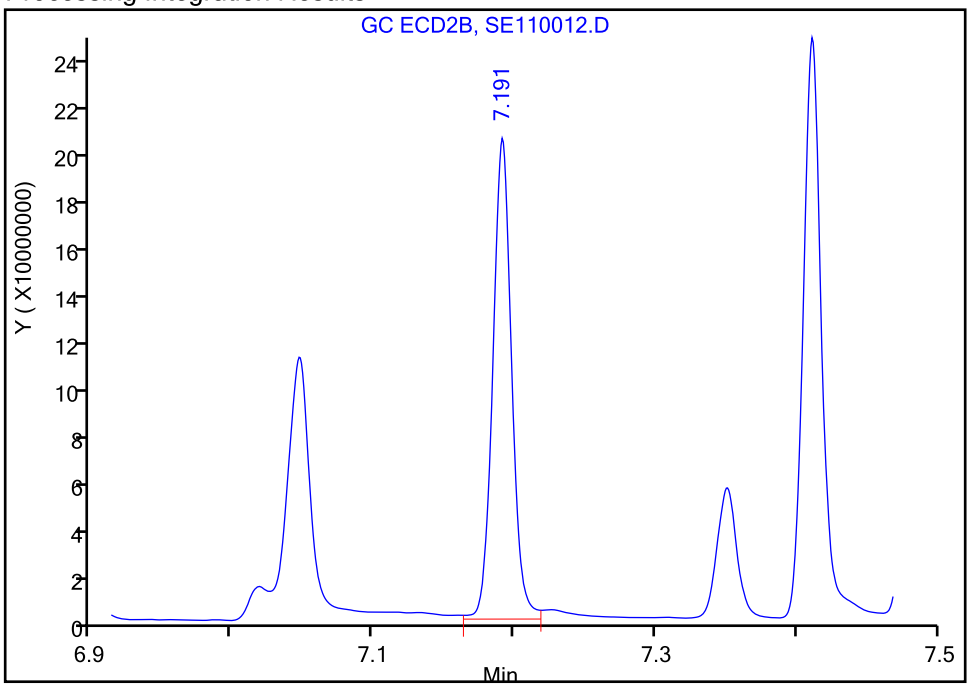
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

10 Dichlorprop, CAS: 120-36-5

Signal: 2

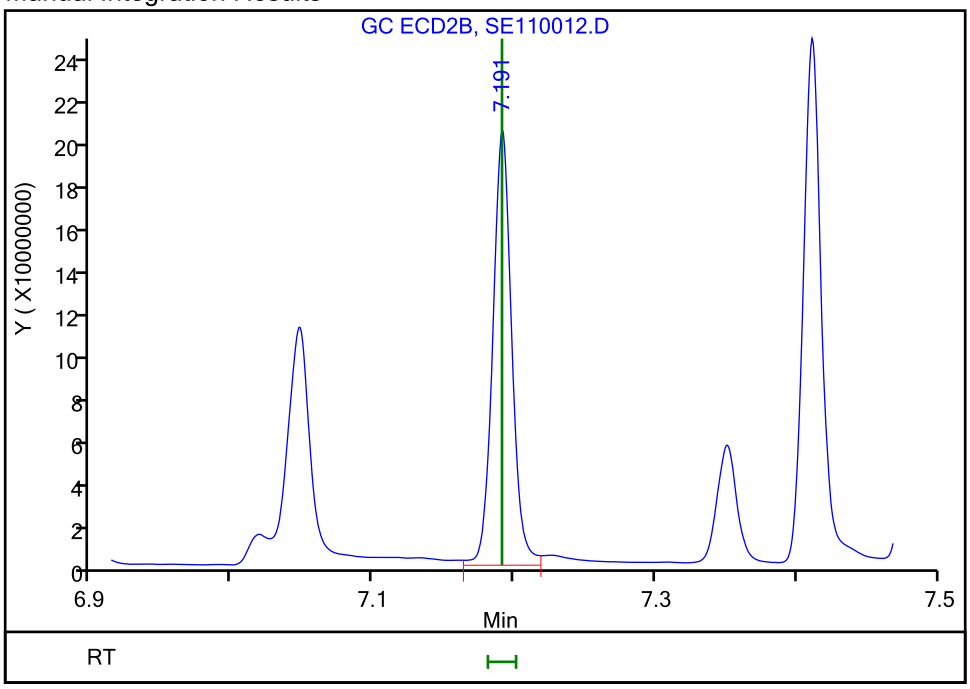
Processing Integration Results

RT: 7.19
Area: 181628986
Amount: 0.156520
Amount Units: ug/ml



Manual Integration Results

RT: 7.19
Area: 183879182
Amount: 0.160396
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

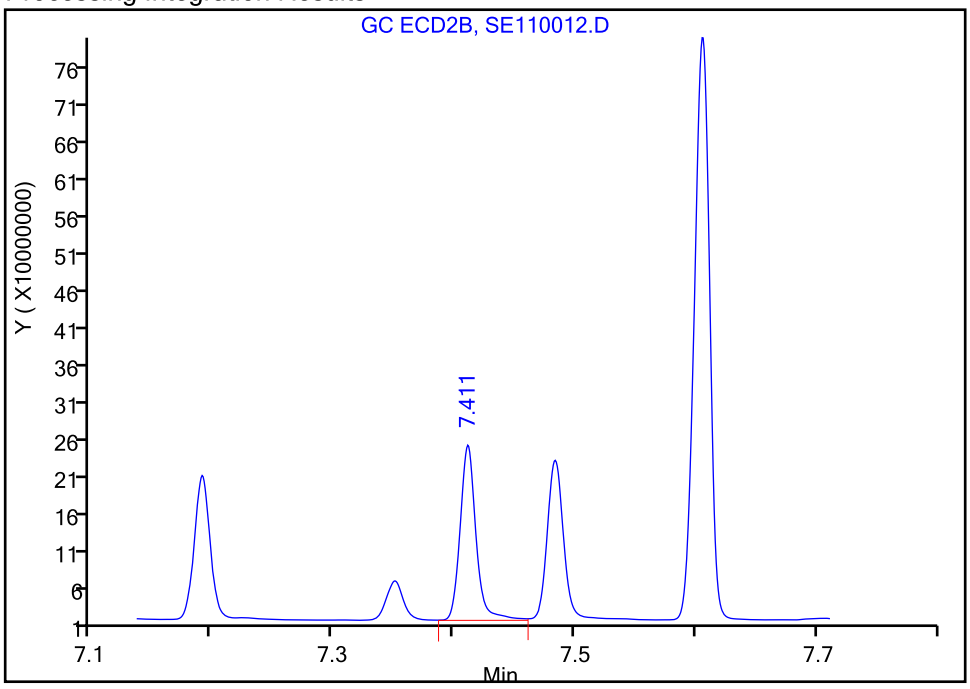
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

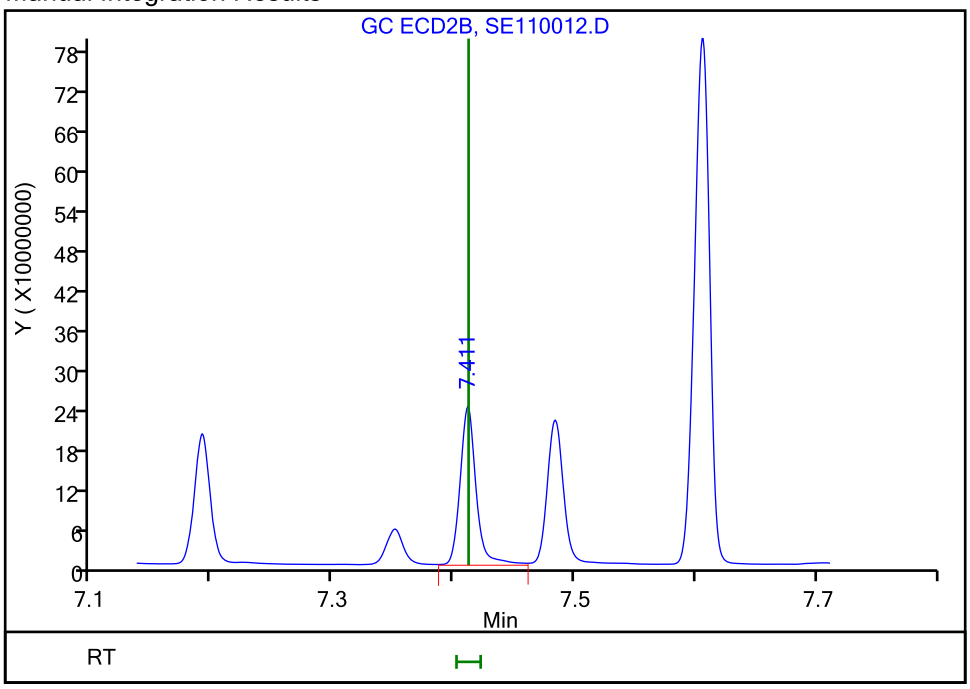
Processing Integration Results

RT: 7.41
Area: 216483300
Amount: 0.167249
Amount Units: ug/ml



Manual Integration Results

RT: 7.41
Area: 220136421
Amount: 0.174870
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

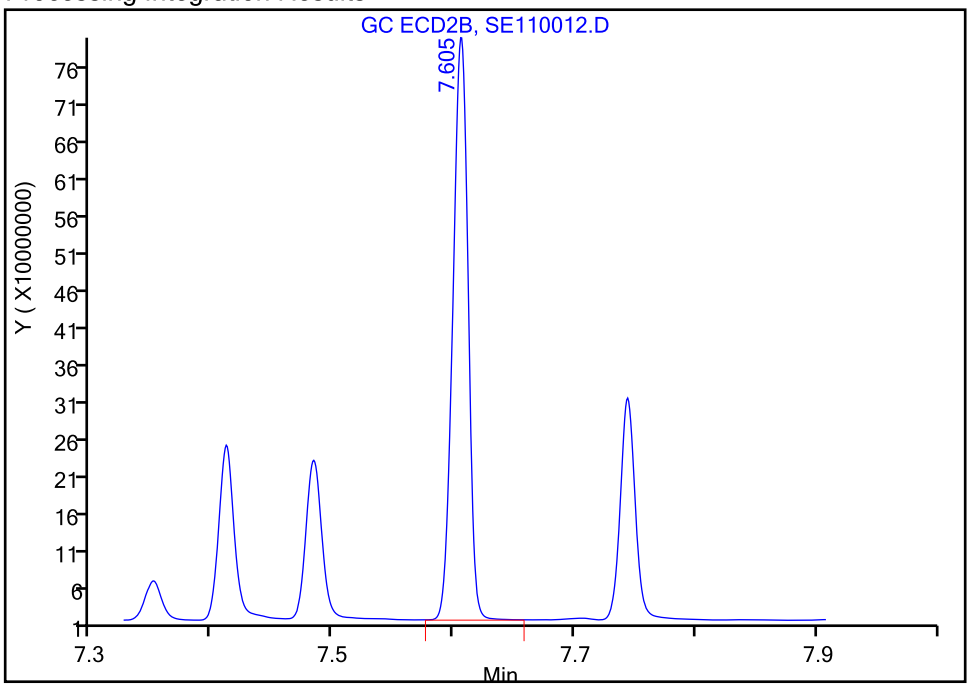
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

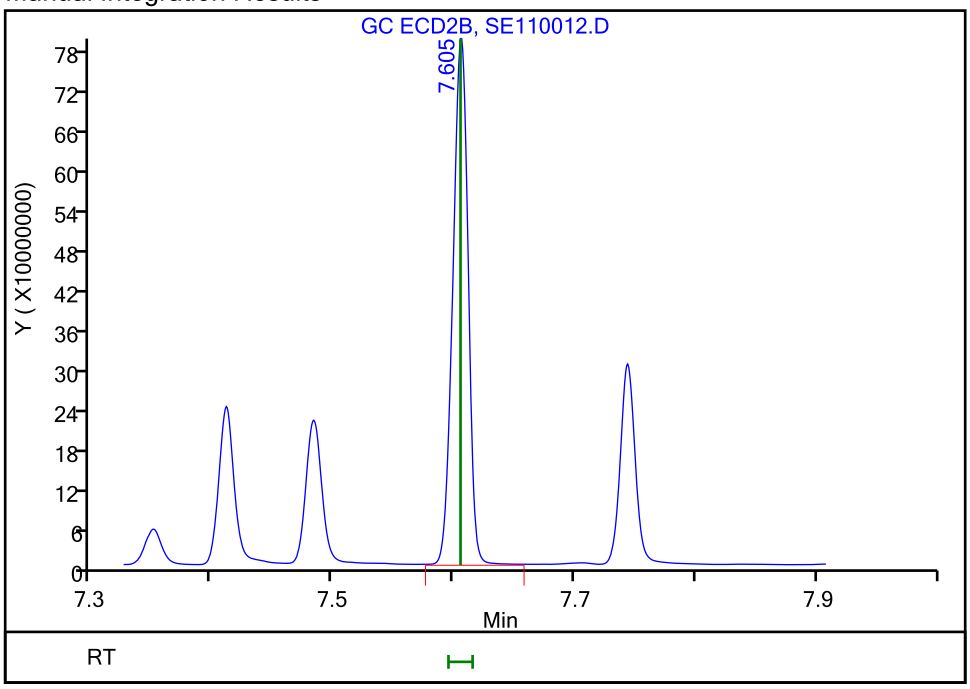
Processing Integration Results

RT: 7.61
Area: 691927788
Amount: 0.044132
Amount Units: ug/ml



Manual Integration Results

RT: 7.61
Area: 696751567
Amount: 0.044440
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

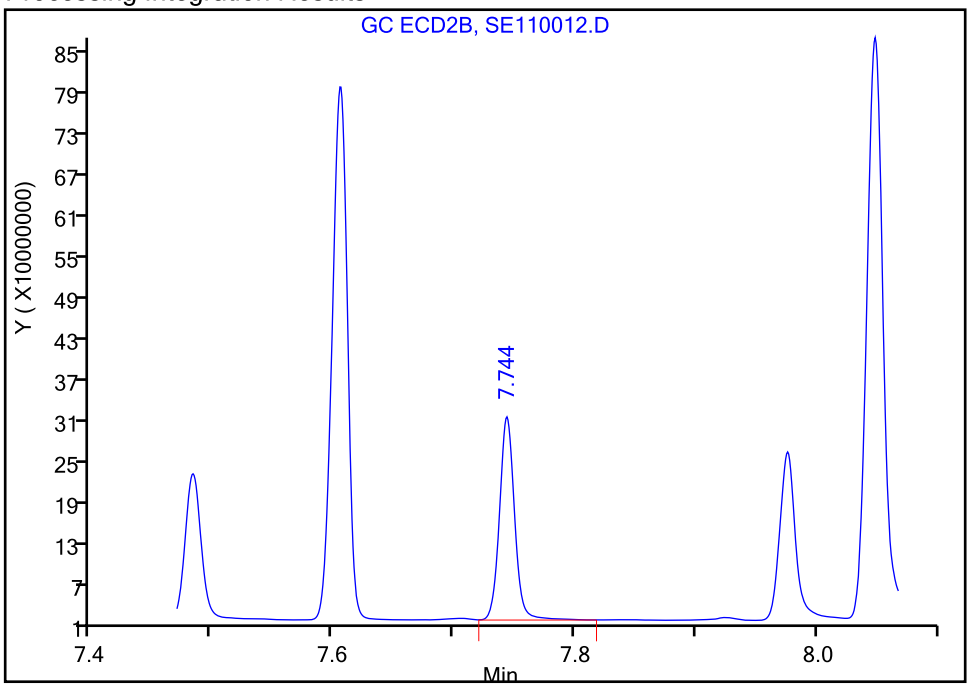
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

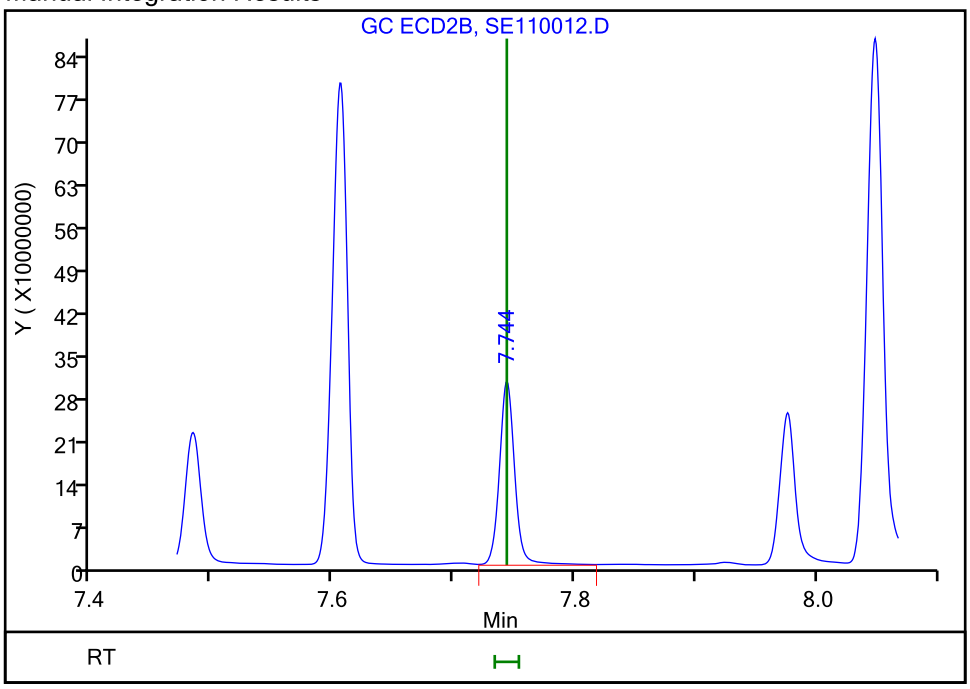
Processing Integration Results

RT: 7.74
Area: 260440826
Amount: 0.043128
Amount Units: ug/ml



Manual Integration Results

RT: 7.74
Area: 266557621
Amount: 0.044141
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

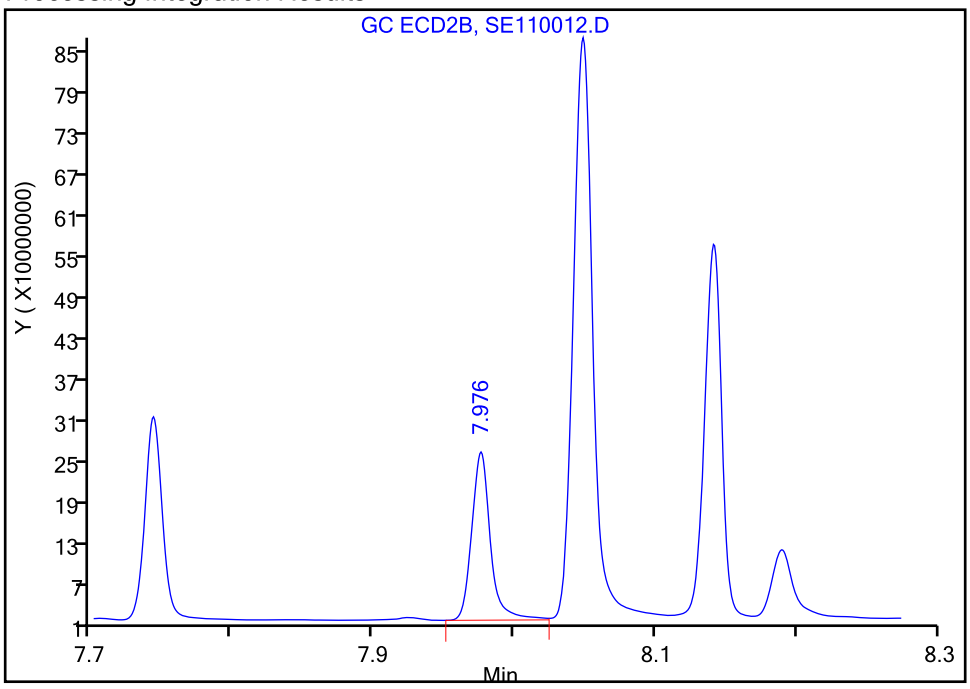
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

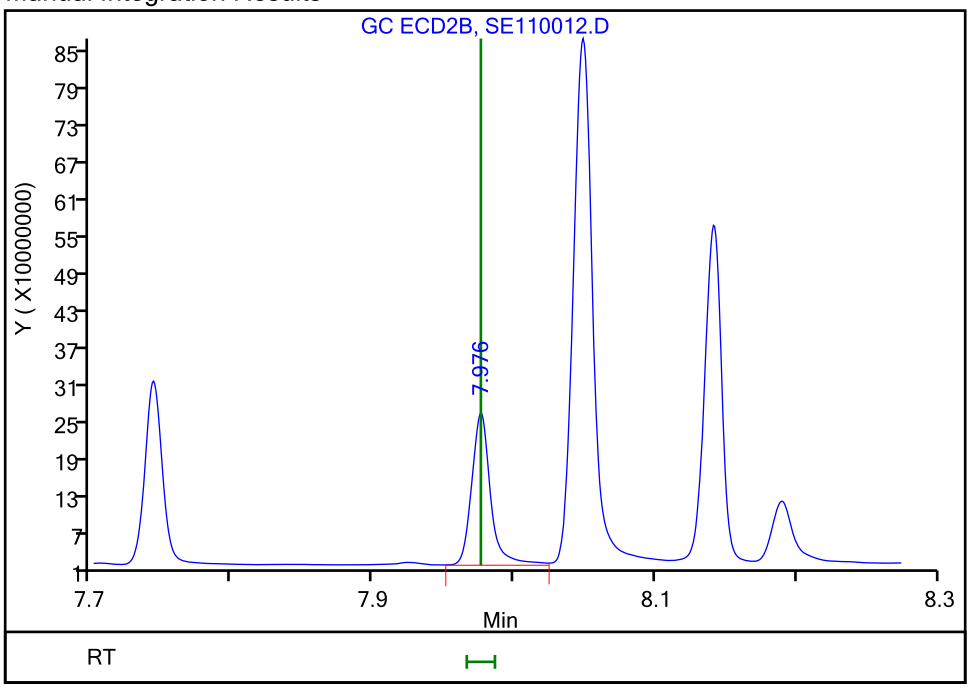
Processing Integration Results

RT: 7.98
Area: 228626529
Amount: 0.042871
Amount Units: ug/ml



Manual Integration Results

RT: 7.98
Area: 232256864
Amount: 0.045266
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

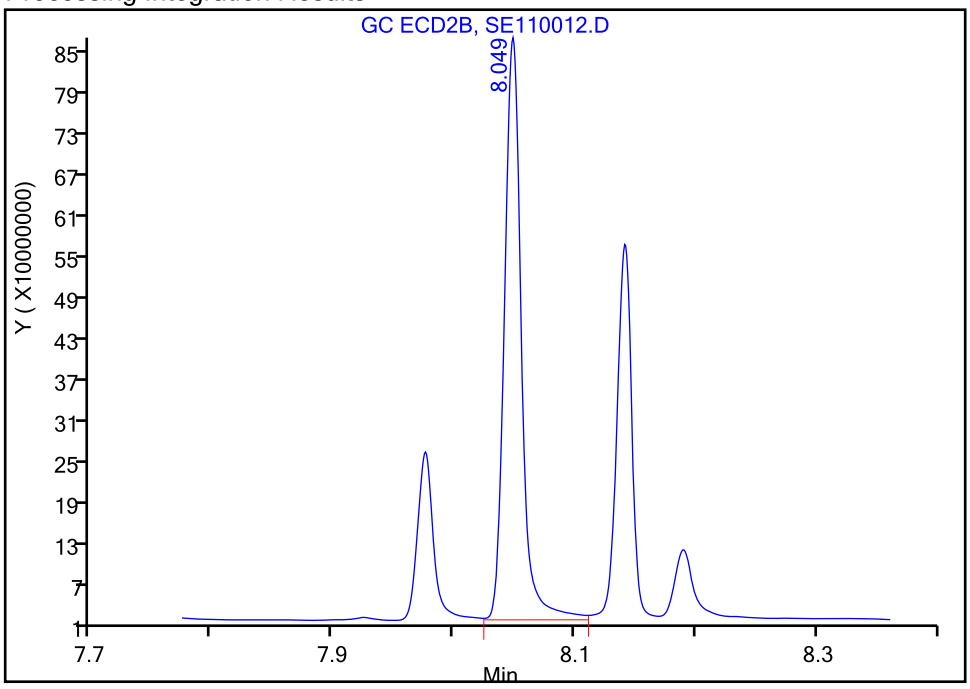
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

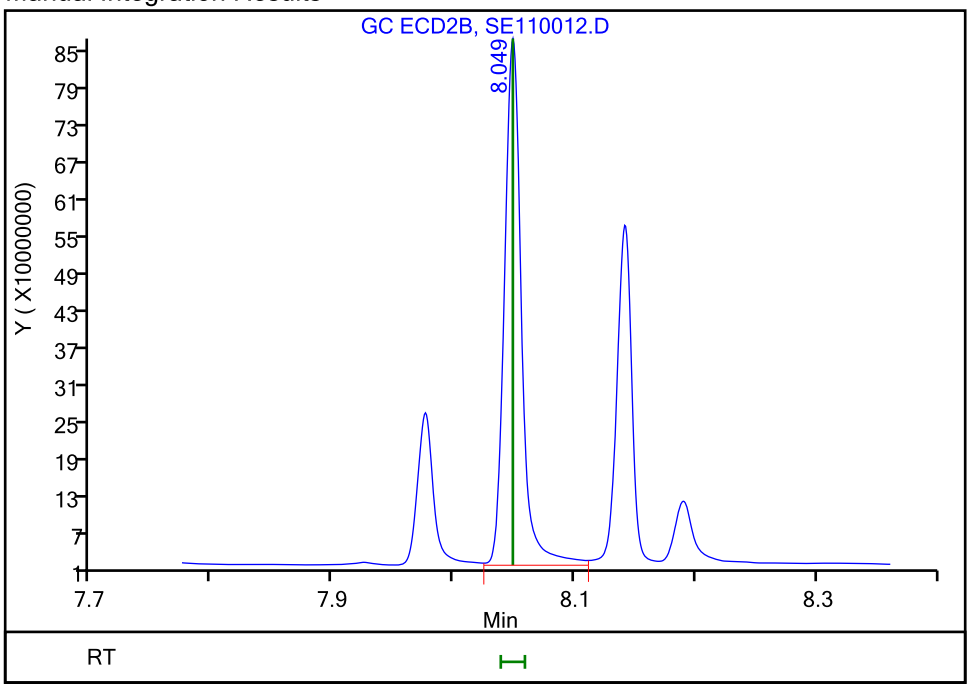
Processing Integration Results

RT: 8.05
Area: 836662045
Amount: 0.176774
Amount Units: ug/ml



Manual Integration Results

RT: 8.05
Area: 842916070
Amount: 0.178095
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

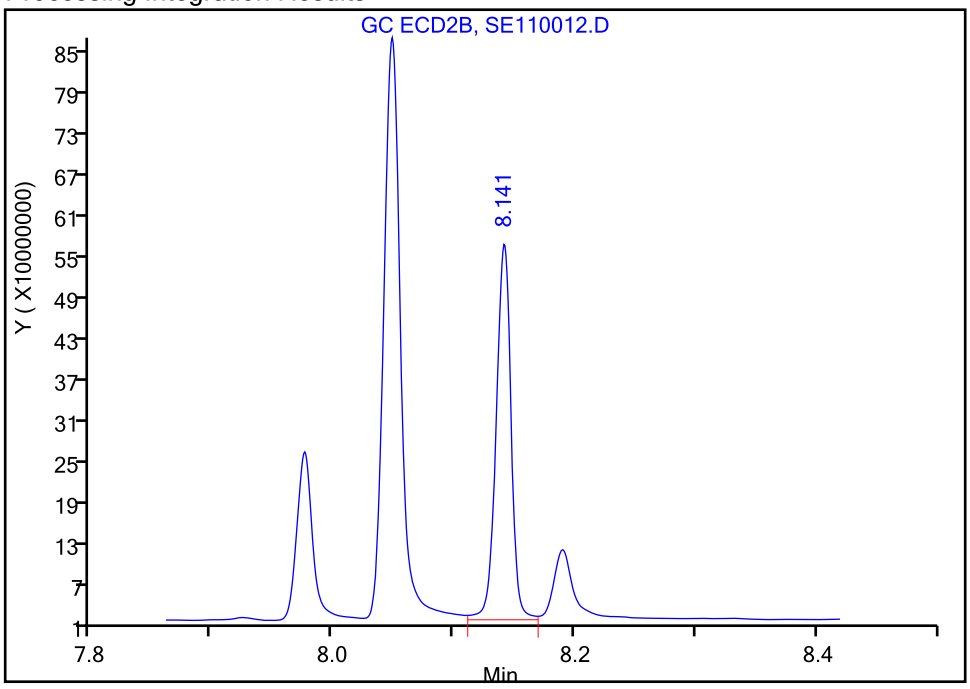
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

17 Dinoseb, CAS: 88-85-7

Signal: 2

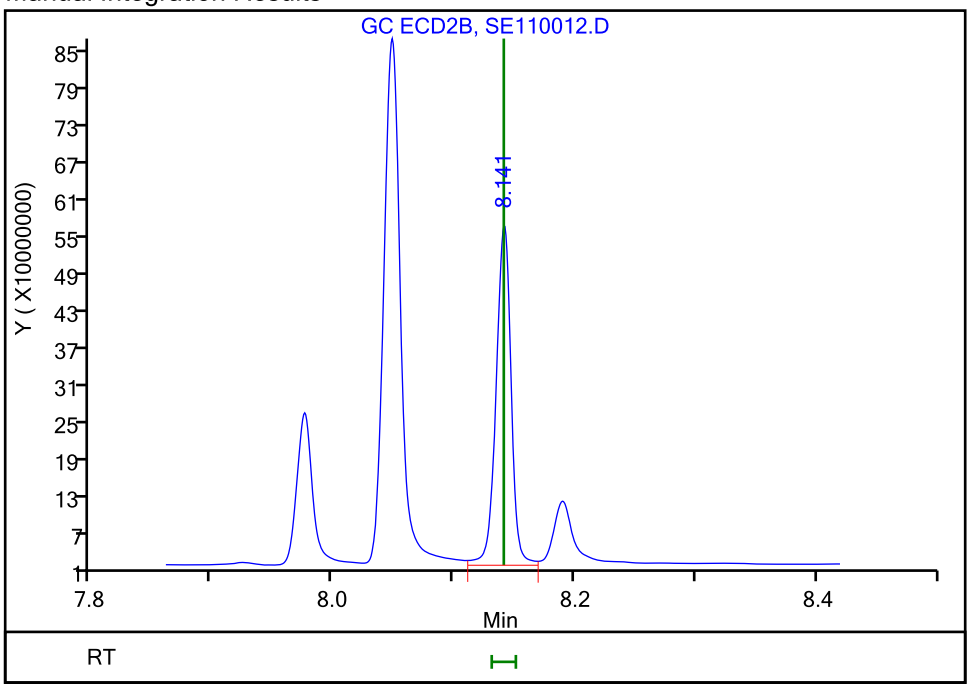
Processing Integration Results

RT: 8.14
Area: 476023120
Amount: 0.161099
Amount Units: ug/ml



Manual Integration Results

RT: 8.14
Area: 480425704
Amount: 0.162451
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

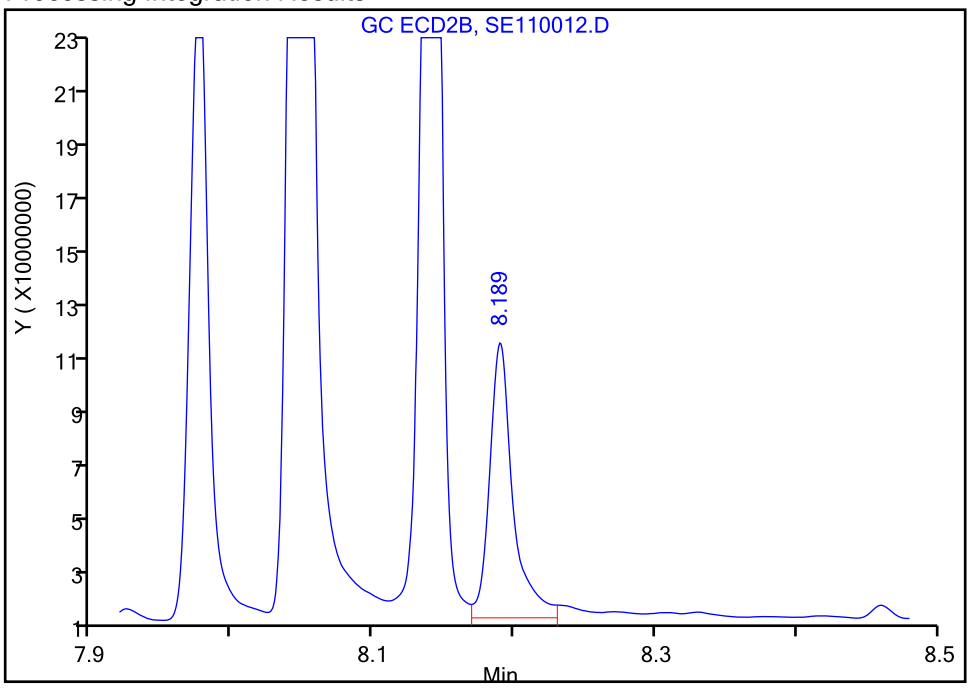
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

16 2,4-DB, CAS: 94-82-6

Signal: 2

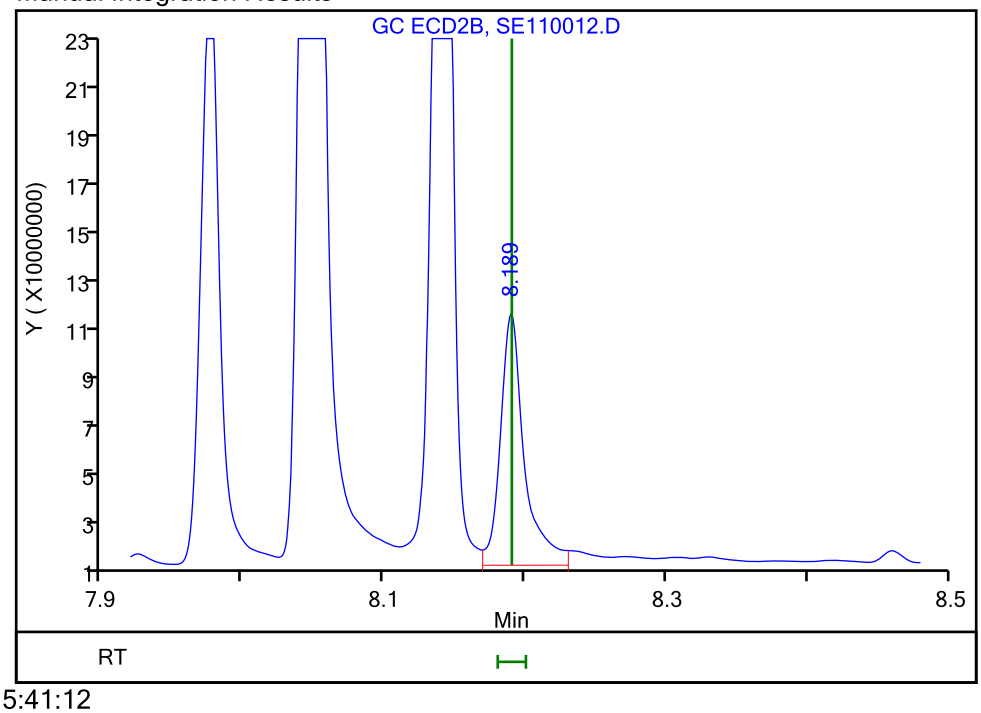
Processing Integration Results

RT: 8.19
Area: 118656110
Amount: 0.163152
Amount Units: ug/ml



Manual Integration Results

RT: 8.19
Area: 123400421
Amount: 0.169675
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

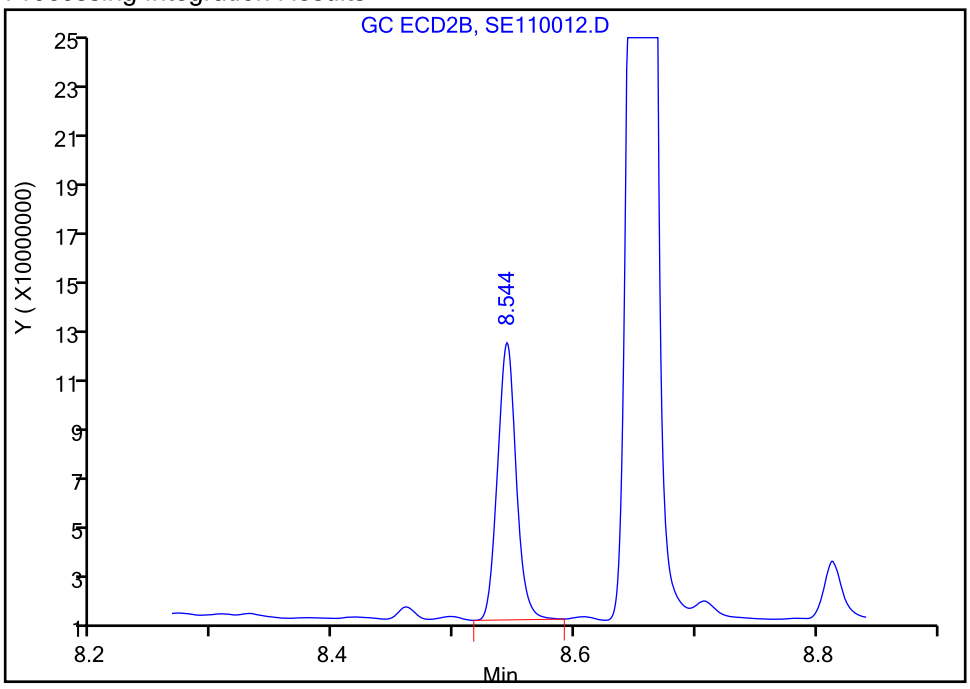
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

18 Bentazon, CAS: 25057-89-0

Signal: 2

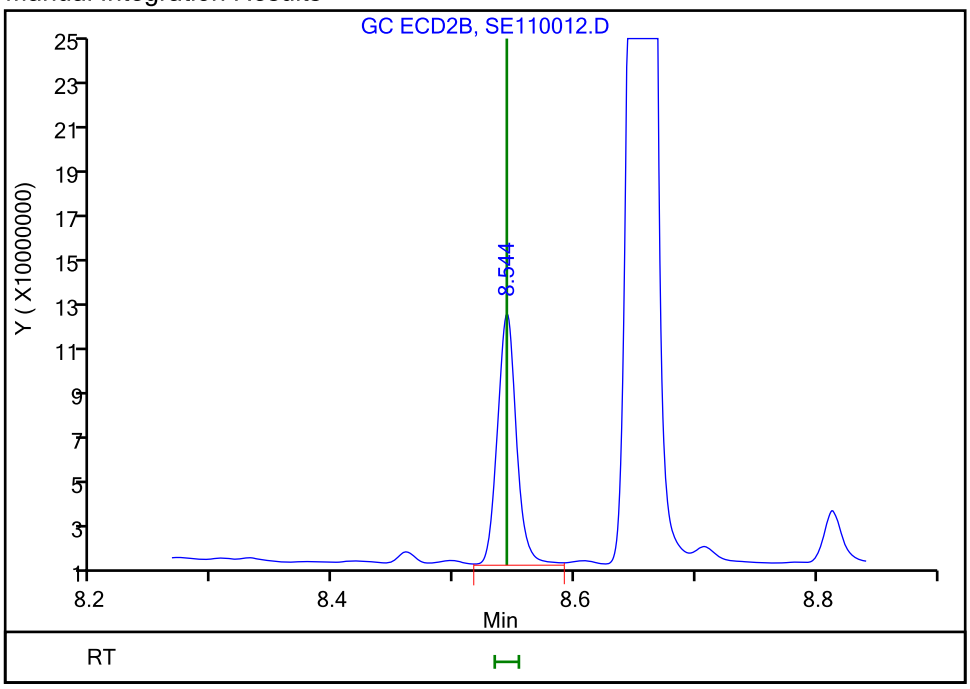
Processing Integration Results

RT: 8.54
Area: 117490535
Amount: 0.166777
Amount Units: ug/ml



Manual Integration Results

RT: 8.54
Area: 120950385
Amount: 0.171688
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

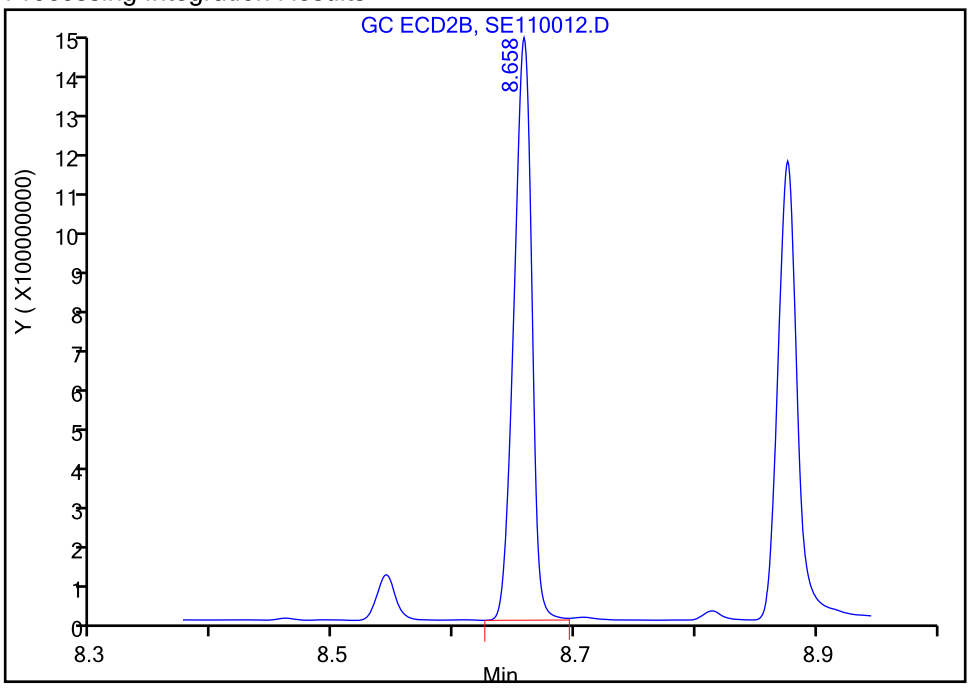
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Injection Date: 11-May-2018 14:23:54 Instrument ID: CSGS
Lims ID: icv herb
Client ID:
Operator ID: GEM ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

20 DCPA, CAS: 1861-32-1

Signal: 2

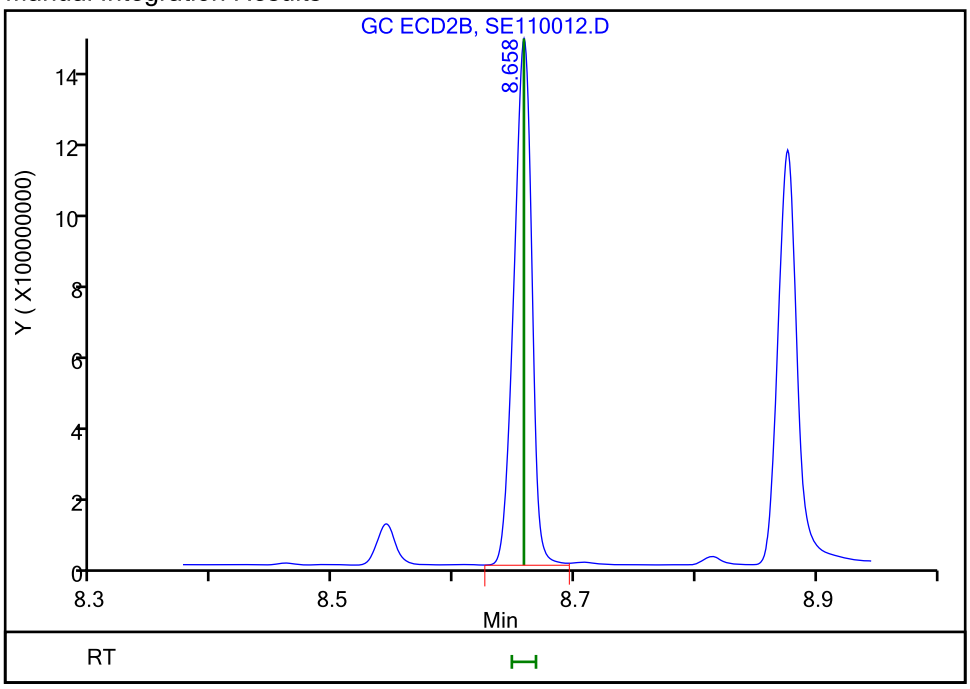
Processing Integration Results

RT: 8.66
Area: 1438494306
Amount: 0.177204
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 1442357771
Amount: 0.177680
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

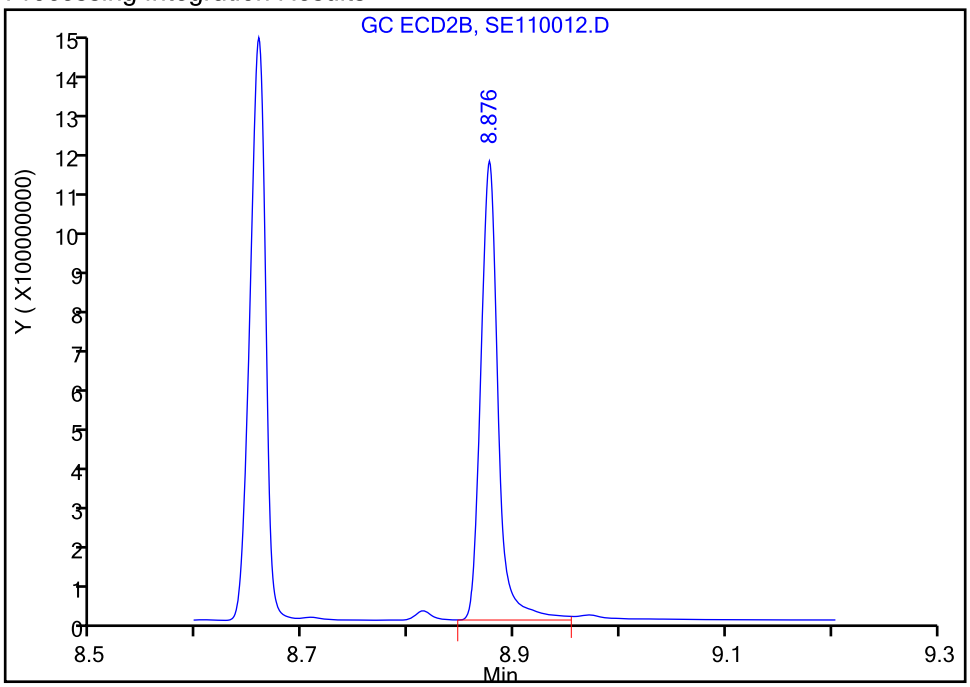
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

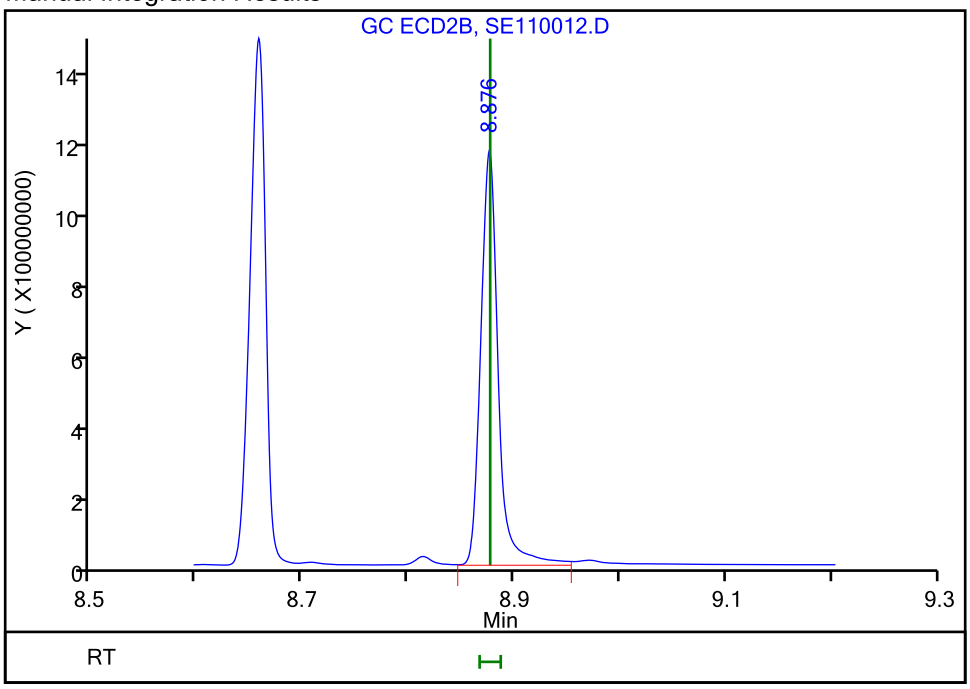
Processing Integration Results

RT: 8.88
Area: 1260870185
Amount: 0.147585
Amount Units: ug/ml



Manual Integration Results

RT: 8.88
Area: 1268832439
Amount: 0.176498
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

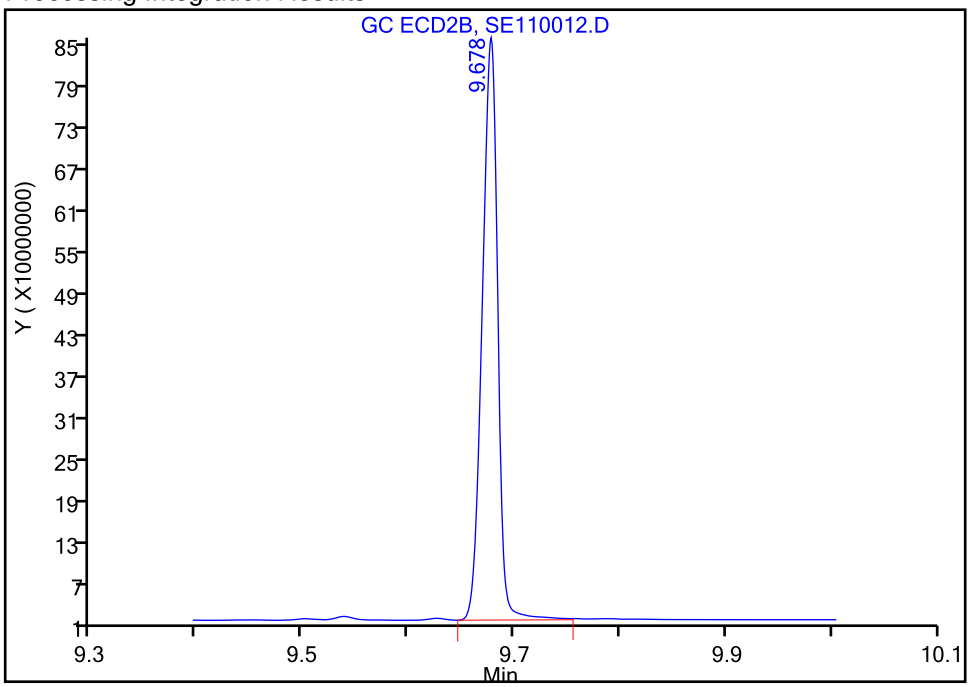
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110012.D				
Injection Date:	11-May-2018 14:23:54	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

21 Acifluorfen, CAS: 50594-66-6

Signal: 2

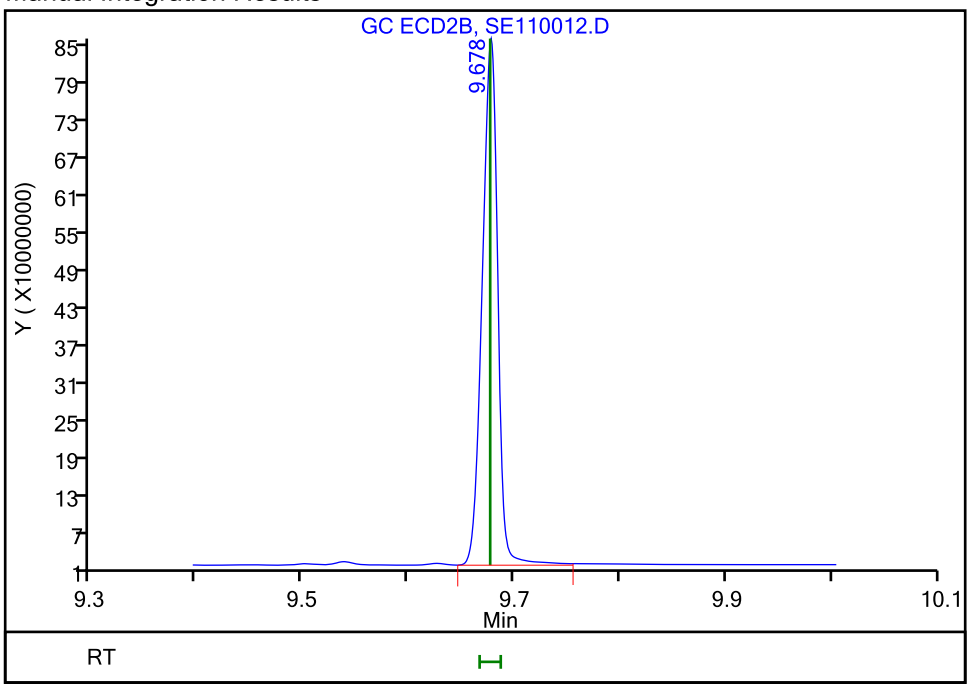
Processing Integration Results

RT: 9.68
Area: 855336358
Amount: 0.146893
Amount Units: ug/ml



Manual Integration Results

RT: 9.68
Area: 858463960
Amount: 0.147349
Amount Units: ug/ml



Reviewer: kellarj, 11-May-2018 15:41:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/30 Calibration Date: 05/11/2018 20:17

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110030.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Lin2		369893910		0.0861	0.100	-13.9	20.0
3,5-Dichlorobenzoic acid	Ave	283999151	359349860		0.127	0.100	26.5*	20.0
4-Nitrophenol	Ave	92446979	88672310		0.0959	0.100	-4.1	20.0
Dicamba	Ave	902628145	825776440		0.0457	0.0500	-8.5	20.0
MCPP	Ave	597922	585423		9.79	10.0	-2.1	20.0
MCPA	Lin1		695396		9.68	10.0	-3.2	20.0
Dichlorprop	Ave	230133436	218785210		0.0951	0.100	-4.9	20.0
2,4-D	Ave	273146870	259613330		0.0950	0.100	-5.0	20.0
Pentachlorophenol	Ave	4371457736	4108383680		0.0235	0.0250	-6.0	20.0
Silvex (2,4,5-TP)	Ave	1596048239	1569939640		0.0246	0.0250	-1.6	20.0
Chloramben	Ave	1354357931	1329692920		0.0982	0.100	-1.8	20.0
2,4,5-T	Ave	1551041319	1555205680		0.0251	0.0250	0.3	20.0
2,4-DB	Ave	145729072	143811150		0.0987	0.100	-1.3	20.0
Dinoseb	Ave	906941545	949380620		0.105	0.100	4.7	20.0
Bentazon	Ave	221195610	217191740		0.0982	0.100	-1.8	20.0
Picloram	Ave	2262537728	2185002150		0.0966	0.100	-3.4	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	2413841684	2327223070		0.0964	0.100	-3.6	20.0
Acifluorfen	Qua		1642013370		0.0947	0.100	-5.3	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	171928410	167618150		0.0975	0.100	-2.5	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/30 Calibration Date: 05/11/2018 20:17

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110030.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.44	2.41	2.45
3,5-Dichlorobenzoic acid	6.01	6.01	6.03
4-Nitrophenol	6.14	6.13	6.15
Dicamba	6.61	6.60	6.62
MCPP	6.76	6.75	6.77
MCPA	6.88	6.87	6.89
Dichlorprop	7.07	7.06	7.08
2,4-D	7.21	7.20	7.22
Pentachlorophenol	7.56	7.55	7.57
Silvex (2,4,5-TP)	7.66	7.65	7.67
Chloramben	7.74	7.73	7.75
2,4,5-T	7.82	7.81	7.83
2,4-DB	8.06	8.05	8.07
Dinoseb	8.11	8.10	8.12
Bentazon	8.18	8.17	8.19
Picloram	8.40	8.39	8.41
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.50	8.49	8.51
Acifluorfen	9.54	9.53	9.55
2,4-Dichlorophenylacetic acid (Surr)	6.57	6.56	6.58

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110030.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2018 20:17:17 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-030
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:14 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:43:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							M
1	2.436	2.434	0.002	36989391	0.1000	0.0861	
2	2.488	2.487	0.001	112062821	0.1000	0.0808	M
						RPD = 6.35	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	10037847	NC	NC	
2	4.996	4.996	0.000	43292311	NC	NC	
						RPD = 26.19	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	95458138	NC	NC	
2	5.667	5.668	-0.001	390928435	NC	NC	
						RPD = 5.05	
4 3,5-Dichlorobenzoic acid							M
1	6.014	6.015	-0.001	35934986	0.1000	0.1265	M
2	6.008	6.009	-0.001	129504324	0.1000	0.0844	
						RPD = 39.92	
5 4-Nitrophenol							
1	6.139	6.141	-0.002	8867231	0.1000	0.0959	
2	6.391	6.394	-0.003	24868459	0.1000	0.0974	
						RPD = 1.53	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.571	6.572	-0.001	16761815	0.1000	0.0975	
2	6.719	6.720	-0.001	108389107	0.1000	0.0949	
						RPD = 2.71	
7 Dicamba							
1	6.608	6.609	-0.001	41288822	0.0500	0.0457	
2	6.799	6.800	-0.001	179972807	0.0500	0.0424	
						RPD = 7.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.756	6.757	-0.001	5854229	10.0	9.79	
2	6.848	6.848	0.000	34680486	10.0	8.45	
						RPD = 14.74	
9 MCPA							
1	6.882	6.883	-0.001	6953958	10.0	9.68	
2	7.046	7.046	0.000	64802253	10.0	8.28	
						RPD = 15.63	
10 Dichlorprop							
1	7.068	7.069	-0.001	21878521	0.1000	0.0951	
2	7.190	7.191	-0.001	93744424	0.1000	0.0818	
						RPD = 15.04	
11 2,4-D							
1	7.212	7.214	-0.002	25961333	0.1000	0.0950	
2	7.410	7.412	-0.002	107906980	0.1000	0.0857	
						RPD = 10.32	
12 Pentachlorophenol							
1	7.561	7.562	-0.001	102709592	0.0250	0.0235	
2	7.603	7.605	-0.002	386033911	0.0250	0.0246	
						RPD = 4.68	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	39248491	0.0250	0.0246	
2	7.742	7.744	-0.002	132969194	0.0250	0.0220	
						RPD = 11.04	
14 Chloramben							
1	7.738	7.739	-0.001	132969292	0.1000	0.0982	
2	8.047	8.049	-0.002	437740182	0.1000	0.0925	
						RPD = 5.97	
15 2,4,5-T							
1	7.816	7.816	0.000	38880142	0.0250	0.0251	
2	7.974	7.976	-0.002	120572049	0.0250	0.0235	
						RPD = 6.46	
16 2,4-DB							
1	8.058	8.059	-0.001	14381115	0.1000	0.0987	
2	8.188	8.190	-0.002	69051843	0.1000	0.0949	
						RPD = 3.86	
17 Dinoseb							
1	8.112	8.113	-0.001	94938062	0.1000	0.1047	
2	8.141	8.141	0.000	255240219	0.1000	0.0927	
						RPD = 12.11	
18 Bentazon							
1	8.183	8.184	-0.001	21719174	0.1000	0.0982	
2	8.542	8.544	-0.002	61667926	0.1000	0.0875	
						RPD = 11.47	
19 Picloram							
1	8.398	8.399	-0.001	218500215	0.1000	0.0966	
2	8.875	8.877	-0.002	661093560	0.1000	0.0818	
						RPD = 16.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.501	8.504	-0.003	232722307	0.1000	0.0964	
2	8.656	8.658	-0.002	726935306	0.1000	0.0895	
						RPD = 7.38	
21 Acifluorfen							
1	9.541	9.543	-0.002	164201337	0.1000	0.0947	
2	9.675	9.677	-0.002	499125279	0.1000	0.0942	
						RPD = 0.49	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

Report Date: 12-May-2018 10:47:15 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110030.D

Injection Date: 11-May-2018 20:17:17 Instrument ID: CSGS Operator ID: GEM

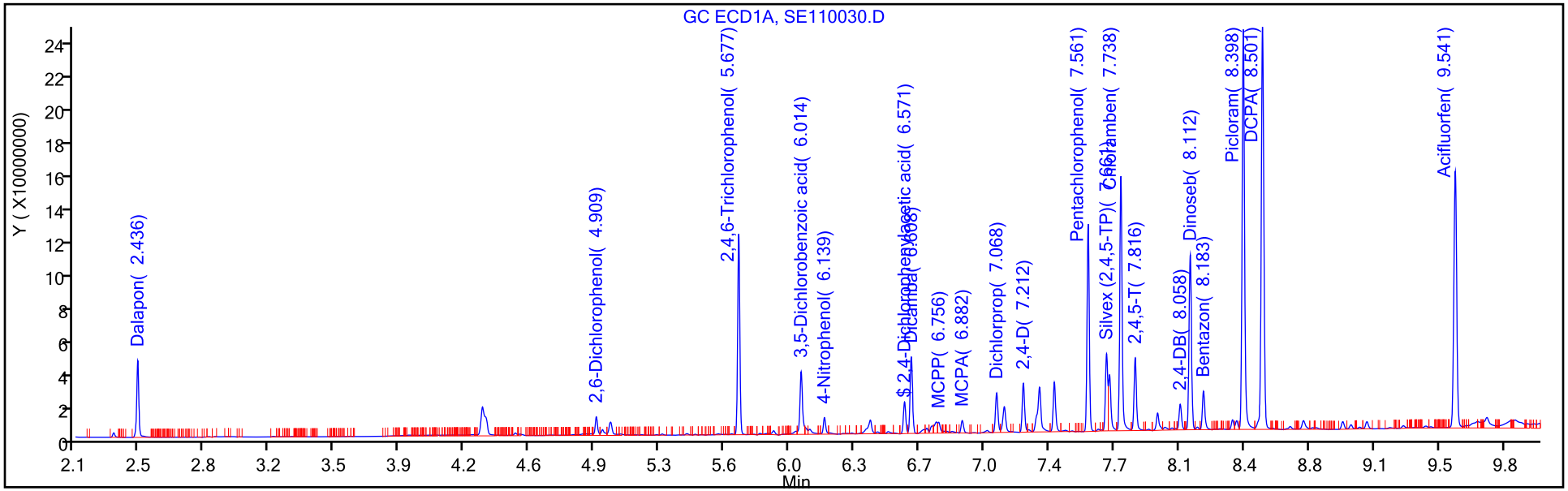
Lims ID: ccv h4 Worklist Smp#: 30

Client ID:

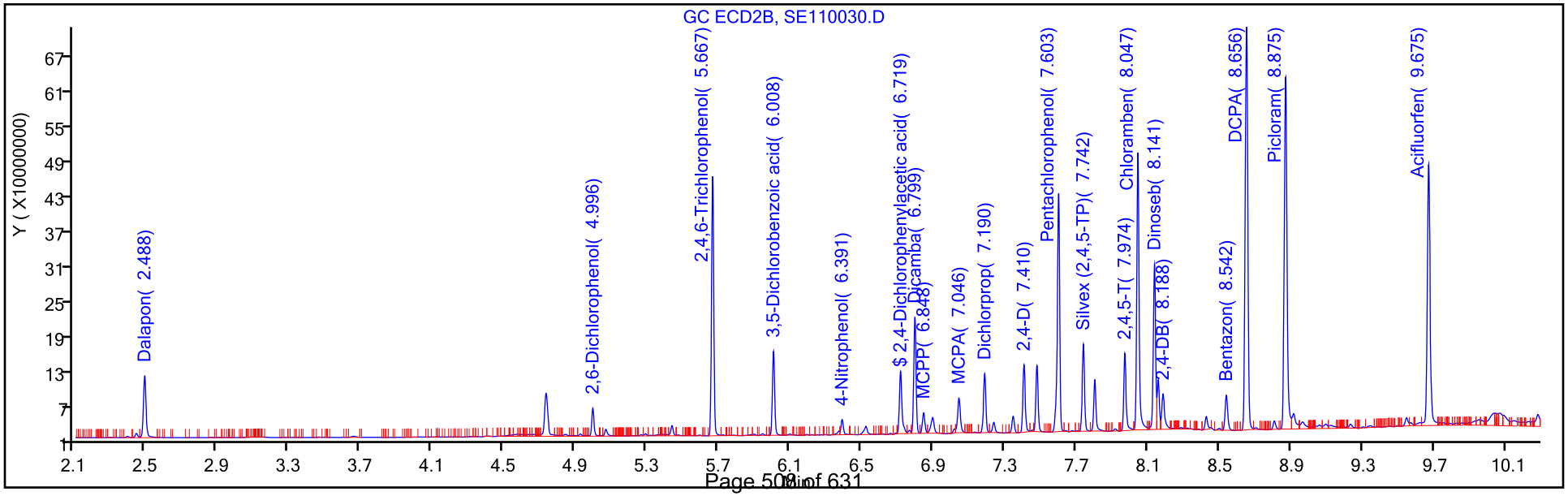
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 30

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

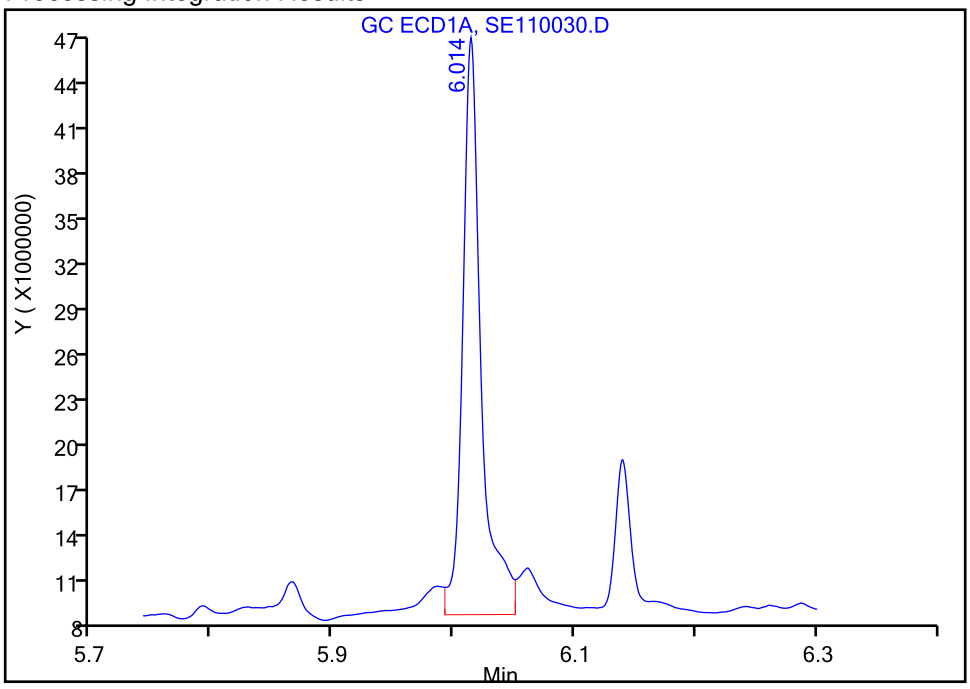
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110030.D
Injection Date: 11-May-2018 20:17:17 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

4 3,5-Dichlorobenzoic acid, CAS: 51-36-5

Signal: 1

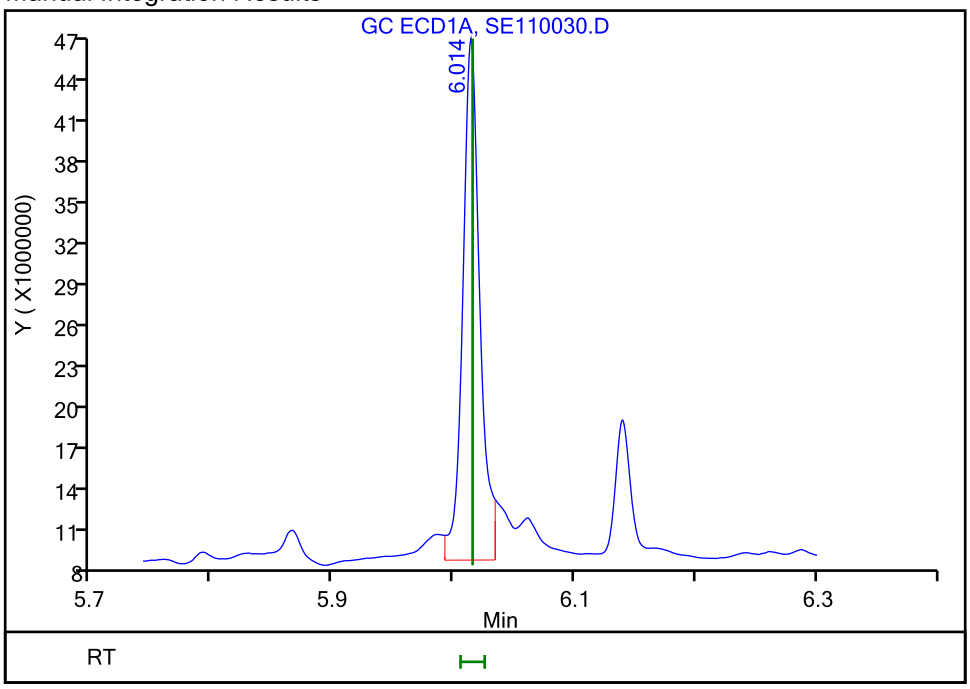
Processing Integration Results

RT: 6.01
Area: 39161331
Amount: 0.137892
Amount Units: ug/ml



Manual Integration Results

RT: 6.01
Area: 35934986
Amount: 0.126532
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:43:13
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/30 Calibration Date: 05/11/2018 20:17

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110030.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1386204194	1120628210		0.0808	0.100	-19.2	20.0
3,5-Dichlorobenzoic acid	Ave	1533919679	1295043240		0.0844	0.100	-15.6	20.0
4-Nitrophenol	Ave	255346659	248684590		0.0974	0.100	-2.6	20.0
Dicamba	Ave	4244164919	3599456140		0.0424	0.0500	-15.2	20.0
MCPP	Lin1		3468049		8.45	10.0	-15.5	20.0
MCPA	Lin2		6480225		8.28	10.0	-17.2	20.0
Dichlorprop	Ave	1146405622	937444240		0.0818	0.100	-18.2	20.0
2,4-D	Ave	1258856811	1079069800		0.0857	0.100	-14.3	20.0
Pentachlorophenol	Ave	15678491137	15441356440		0.0246	0.0250	-1.5	20.0
Silvex (2,4,5-TP)	Ave	6038823762	5318767760		0.0220	0.0250	-11.9	20.0
2,4,5-T	Ave	5130951653	4822881960		0.0235	0.0250	-6.0	20.0
Chloramben	Ave	4732944977	4377401820		0.0925	0.100	-7.5	20.0
Dinoseb	Qua		2552402190		0.0927	0.100	-7.3	20.0
2,4-DB	Ave	727274265	690518430		0.0949	0.100	-5.1	20.0
Bentazon	Ave	704477021	616679260		0.0875	0.100	-12.5	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	8117747515	7269353060		0.0895	0.100	-10.5	20.0
Picloram	Lin1		6610935600		0.0818	0.100	-18.2	20.0
Acifluorfen	Qua		4991252790		0.0942	0.100	-5.8	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1142358705	1083891070		0.0949	0.100	-5.1	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/30 Calibration Date: 05/11/2018 20:17

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110030.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.49	2.47	2.51
3,5-Dichlorobenzoic acid	6.01	6.00	6.02
4-Nitrophenol	6.39	6.38	6.40
Dicamba	6.80	6.79	6.81
MCPP	6.85	6.84	6.86
MCPA	7.05	7.04	7.06
Dichlorprop	7.19	7.18	7.20
2,4-D	7.41	7.40	7.42
Pentachlorophenol	7.60	7.60	7.62
Silvex (2,4,5-TP)	7.74	7.73	7.75
2,4,5-T	7.97	7.97	7.99
Chloramben	8.05	8.04	8.06
Dinoseb	8.14	8.13	8.15
2,4-DB	8.19	8.18	8.20
Bentazon	8.54	8.53	8.55
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.66	8.65	8.67
Picloram	8.88	8.87	8.89
Acifluorfen	9.68	9.67	9.69
2,4-Dichlorophenylacetic acid (Surr)	6.72	6.71	6.73

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110030.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 11-May-2018 20:17:17 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-030
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:14 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:43:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							M
1	2.436	2.434	0.002	36989391	0.1000	0.0861	
2	2.488	2.487	0.001	112062821	0.1000	0.0808	M
						RPD = 6.35	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	10037847	NC	NC	
2	4.996	4.996	0.000	43292311	NC	NC	
						RPD = 26.19	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	95458138	NC	NC	
2	5.667	5.668	-0.001	390928435	NC	NC	
						RPD = 5.05	
4 3,5-Dichlorobenzoic acid							M
1	6.014	6.015	-0.001	35934986	0.1000	0.1265	M
2	6.008	6.009	-0.001	129504324	0.1000	0.0844	
						RPD = 39.92	
5 4-Nitrophenol							
1	6.139	6.141	-0.002	8867231	0.1000	0.0959	
2	6.391	6.394	-0.003	24868459	0.1000	0.0974	
						RPD = 1.53	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.571	6.572	-0.001	16761815	0.1000	0.0975	
2	6.719	6.720	-0.001	108389107	0.1000	0.0949	
						RPD = 2.71	
7 Dicamba							
1	6.608	6.609	-0.001	41288822	0.0500	0.0457	
2	6.799	6.800	-0.001	179972807	0.0500	0.0424	
						RPD = 7.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.756	6.757	-0.001	5854229	10.0	9.79	
2	6.848	6.848	0.000	34680486	10.0	8.45	
						RPD = 14.74	
9 MCPA							
1	6.882	6.883	-0.001	6953958	10.0	9.68	
2	7.046	7.046	0.000	64802253	10.0	8.28	
						RPD = 15.63	
10 Dichlorprop							
1	7.068	7.069	-0.001	21878521	0.1000	0.0951	
2	7.190	7.191	-0.001	93744424	0.1000	0.0818	
						RPD = 15.04	
11 2,4-D							
1	7.212	7.214	-0.002	25961333	0.1000	0.0950	
2	7.410	7.412	-0.002	107906980	0.1000	0.0857	
						RPD = 10.32	
12 Pentachlorophenol							
1	7.561	7.562	-0.001	102709592	0.0250	0.0235	
2	7.603	7.605	-0.002	386033911	0.0250	0.0246	
						RPD = 4.68	
13 Silvex (2,4,5-TP)							
1	7.661	7.661	0.000	39248491	0.0250	0.0246	
2	7.742	7.744	-0.002	132969194	0.0250	0.0220	
						RPD = 11.04	
14 Chloramben							
1	7.738	7.739	-0.001	132969292	0.1000	0.0982	
2	8.047	8.049	-0.002	437740182	0.1000	0.0925	
						RPD = 5.97	
15 2,4,5-T							
1	7.816	7.816	0.000	38880142	0.0250	0.0251	
2	7.974	7.976	-0.002	120572049	0.0250	0.0235	
						RPD = 6.46	
16 2,4-DB							
1	8.058	8.059	-0.001	14381115	0.1000	0.0987	
2	8.188	8.190	-0.002	69051843	0.1000	0.0949	
						RPD = 3.86	
17 Dinoseb							
1	8.112	8.113	-0.001	94938062	0.1000	0.1047	
2	8.141	8.141	0.000	255240219	0.1000	0.0927	
						RPD = 12.11	
18 Bentazon							
1	8.183	8.184	-0.001	21719174	0.1000	0.0982	
2	8.542	8.544	-0.002	61667926	0.1000	0.0875	
						RPD = 11.47	
19 Picloram							
1	8.398	8.399	-0.001	218500215	0.1000	0.0966	
2	8.875	8.877	-0.002	661093560	0.1000	0.0818	
						RPD = 16.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.501	8.504	-0.003	232722307	0.1000	0.0964	
2	8.656	8.658	-0.002	726935306	0.1000	0.0895	
						RPD = 7.38	
21 Acifluorfen							
1	9.541	9.543	-0.002	164201337	0.1000	0.0947	
2	9.675	9.677	-0.002	499125279	0.1000	0.0942	
						RPD = 0.49	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

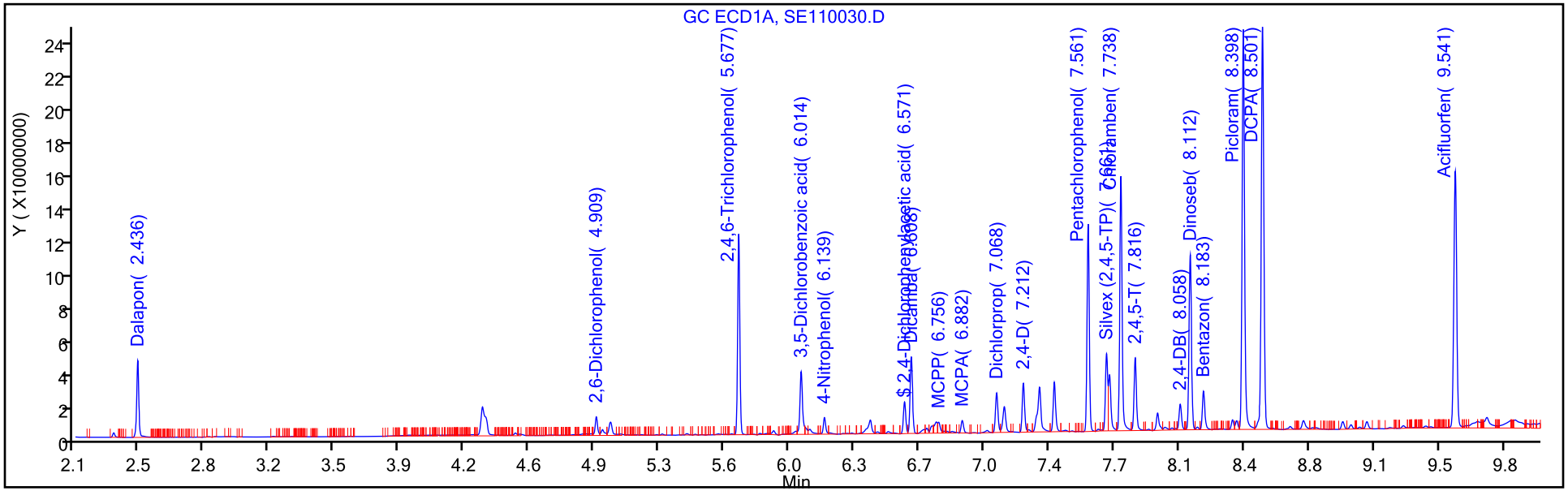
Report Date: 12-May-2018 10:47:16 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

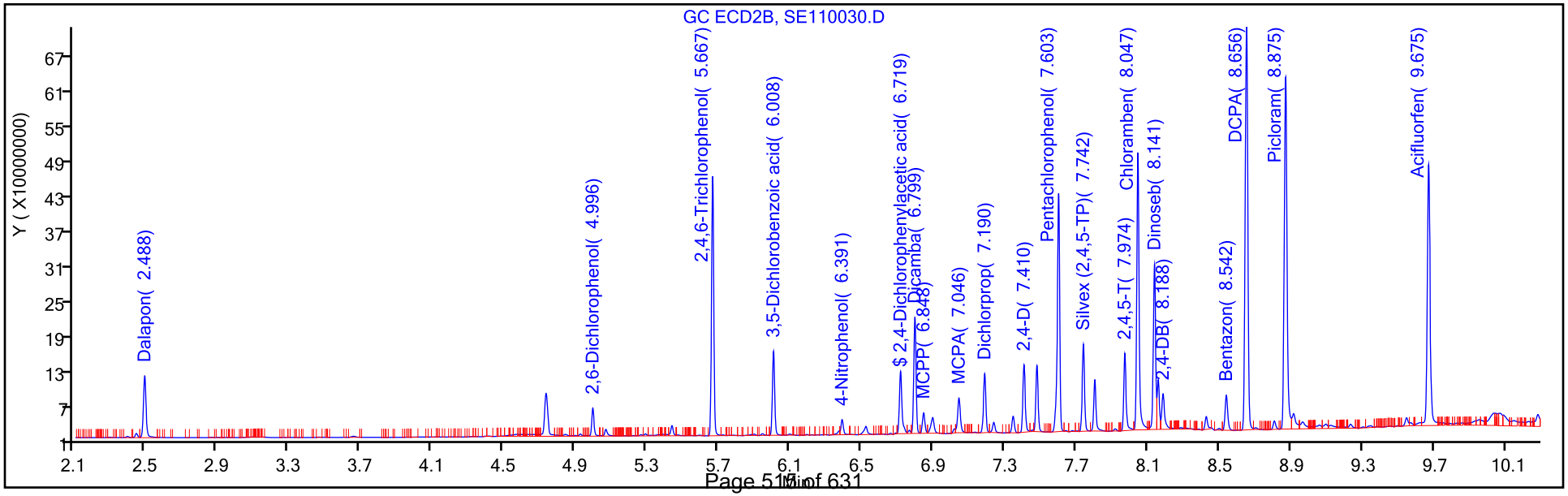
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Injection Date:	11-May-2018 20:17:17	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h4			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

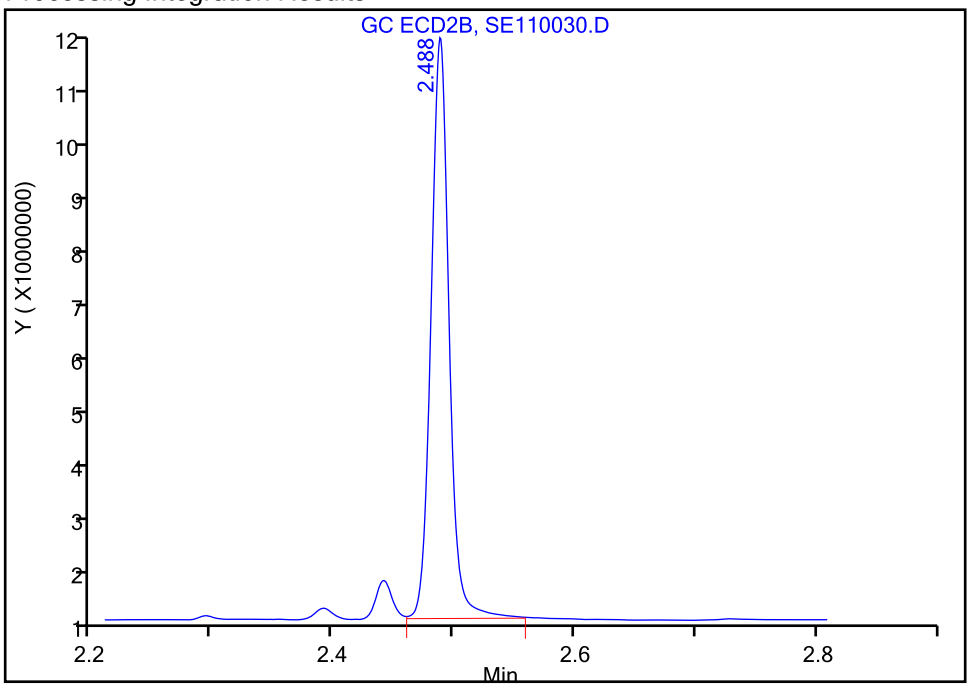
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Injection Date:	11-May-2018 20:17:17	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

1 Dalapon, CAS: 75-99-0

Signal: 2

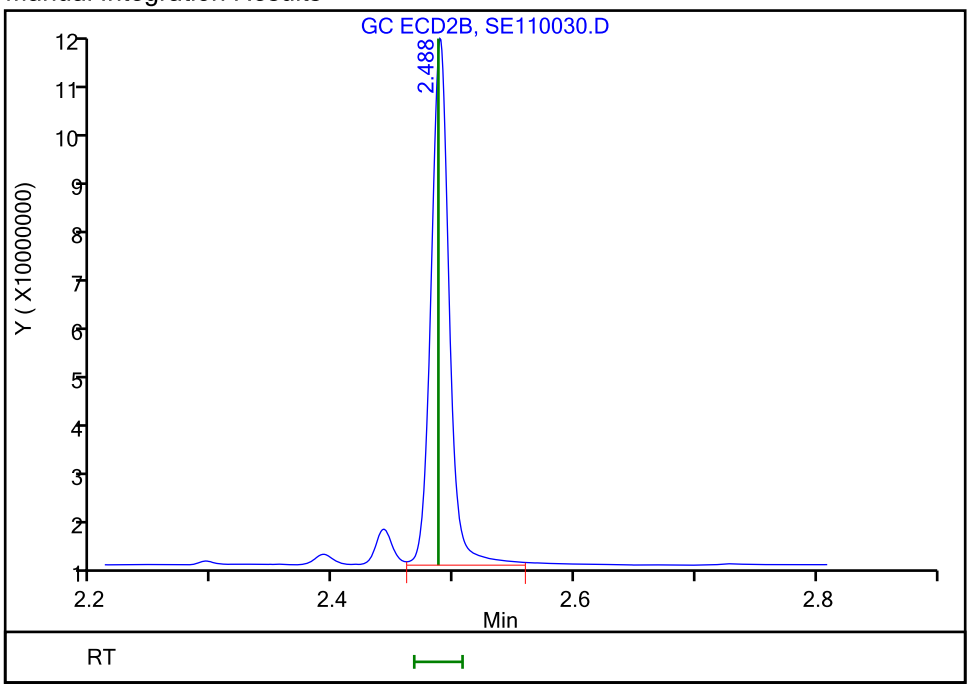
Processing Integration Results

RT: 2.49
Area: 110053077
Amount: 0.079392
Amount Units: ug/ml



Manual Integration Results

RT: 2.49
Area: 112062821
Amount: 0.080841
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:43:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/49 Calibration Date: 05/12/2018 02:29

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110049.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Lin2		370475994		0.150	0.175	-14.1	20.0
3,5-Dichlorobenzoic acid	Ave	283999151	256532611		0.158	0.175	-9.7	20.0
4-Nitrophenol	Ave	92446979	87307811		0.165	0.175	-5.6	20.0
Dicamba	Ave	902628145	811814983		0.0787	0.0875	-10.1	20.0
MCPP	Ave	597922	624029		18.3	17.5	4.4	20.0
MCPA	Lin1		732613		18.4	17.5	5.2	20.0
Dichlorprop	Ave	230133436	203908966		0.155	0.175	-11.4	20.0
2,4-D	Ave	273146870	250728183		0.161	0.175	-8.2	20.0
Pentachlorophenol	Ave	4371457736	4089356023		0.0409	0.0438	-6.5	20.0
Silvex (2,4,5-TP)	Ave	1596048239	1503264091		0.0412	0.0438	-5.8	20.0
Chloramben	Ave	1354357931	1249601909		0.161	0.175	-7.7	20.0
2,4,5-T	Ave	1551041319	1462206103		0.0412	0.0438	-5.7	20.0
2,4-DB	Ave	145729072	137485497		0.165	0.175	-5.7	20.0
Dinoseb	Ave	906941545	922562497		0.178	0.175	1.7	20.0
Bentazon	Ave	221195610	201806114		0.160	0.175	-8.8	20.0
Picloram	Ave	2262537728	1972899623		0.153	0.175	-12.8	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	2413841684	2200060286		0.160	0.175	-8.9	20.0
Acifluorfen	Qua		1322782280		0.131	0.175	-25.4*	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	171928410	160464514		0.163	0.175	-6.7	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/49 Calibration Date: 05/12/2018 02:29

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110049.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.44	2.41	2.45
3,5-Dichlorobenzoic acid	6.01	6.01	6.03
4-Nitrophenol	6.14	6.13	6.15
Dicamba	6.61	6.60	6.62
MCPP	6.76	6.75	6.77
MCPA	6.88	6.87	6.89
Dichlorprop	7.07	7.06	7.08
2,4-D	7.21	7.20	7.22
Pentachlorophenol	7.56	7.55	7.57
Silvex (2,4,5-TP)	7.66	7.65	7.67
Chloramben	7.74	7.73	7.75
2,4,5-T	7.82	7.81	7.83
2,4-DB	8.06	8.05	8.07
Dinoseb	8.11	8.10	8.12
Bentazon	8.18	8.17	8.19
Picloram	8.40	8.39	8.41
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.50	8.49	8.51
Acifluorfen	9.54	9.53	9.55
2,4-Dichlorophenylacetic acid (Surr)	6.57	6.56	6.58

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 12-May-2018 02:29:25 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-049
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:32 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:44:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.435	2.434	0.001	64833299	0.1750	0.1502	
2	2.487	2.487	0.000	194649115	0.1750	0.1404	
						RPD = 6.76	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	13847573	NC	NC	
2	4.997	4.996	0.001	69779343	NC	NC	
						RPD = 11.46	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	166524921	NC	NC	
2	5.668	5.668	0.000	683245650	NC	NC	
						RPD = 4.86	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	44893207	0.1750	0.1581	
2	6.008	6.009	-0.001	225669735	0.1750	0.1471	
						RPD = 7.18	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	15278867	0.1750	0.1653	
2	6.392	6.394	-0.002	39639265	0.1750	0.1552	
						RPD = 6.26	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.572	6.572	0.000	28081290	0.1750	0.1633	
2	6.719	6.720	-0.001	173176230	0.1750	0.1516	M
						RPD = 7.45	
7 Dicamba							M
1	6.608	6.609	-0.001	71033811	0.0875	0.0787	
2	6.801	6.800	0.001	313668829	0.0875	0.0739	M
						RPD = 6.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.757	6.757	0.000	10920504	17.5	18.3	
2	6.848	6.848	0.000	58367940	17.5	14.9	M
						RPD = 20.49	
9 MCPA							M
1	6.883	6.883	0.000	12820719	17.5	18.4	
2	7.046	7.046	0.000	107546076	17.5	14.3	M
						RPD = 25.12	
10 Dichlorprop							M
1	7.068	7.069	-0.001	35684069	0.1750	0.1551	
2	7.191	7.191	0.000	160265818	0.1750	0.1398	M
						RPD = 10.35	
11 2,4-D							M
1	7.212	7.214	-0.002	43877432	0.1750	0.1606	
2	7.411	7.412	-0.001	195120692	0.1750	0.1550	M
						RPD = 3.57	
12 Pentachlorophenol							M
1	7.562	7.562	0.000	178909326	0.0438	0.0409	
2	7.605	7.605	0.000	602721038	0.0438	0.0384	M
						RPD = 6.26	
13 Silvex (2,4,5-TP)							M
1	7.661	7.661	0.000	65767804	0.0438	0.0412	
2	7.743	7.744	-0.001	234399519	0.0438	0.0388	M
						RPD = 5.98	
14 Chloramben							M
1	7.738	7.739	-0.001	218680334	0.1750	0.1615	
2	8.048	8.049	-0.001	731348181	0.1750	0.1545	M
						RPD = 4.39	
15 2,4,5-T							M
1	7.816	7.816	0.000	63971517	0.0438	0.0412	
2	7.975	7.976	-0.001	209186266	0.0438	0.0408	M
						RPD = 1.16	
16 2,4-DB							M
1	8.058	8.059	-0.001	24059962	0.1750	0.1651	
2	8.189	8.190	-0.001	112290903	0.1750	0.1544	M
						RPD = 6.70	
17 Dinoseb							M
1	8.112	8.113	-0.001	161448437	0.1750	0.1780	
2	8.142	8.141	0.001	439400629	0.1750	0.1498	M
						RPD = 17.19	
18 Bentazon							M
1	8.184	8.184	0.000	35316070	0.1750	0.1597	
2	8.543	8.544	-0.001	110640123	0.1750	0.1571	M
						RPD = 1.65	
19 Picloram							M
1	8.399	8.399	0.000	345257434	0.1750	0.1526	
2	8.876	8.877	-0.001	1087585501	0.1750	0.1286	M
						RPD = 17.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.502	8.504	-0.002	385010550	0.1750	0.1595	
2	8.657	8.658	-0.001	1228989351	0.1750	0.1514	M
						RPD = 5.21	
21 Acifluorfen							
1	9.542	9.543	-0.001	231486899	0.1750	0.1306	
2	9.676	9.677	-0.001	630622136	0.1750	0.1139	
						RPD = 13.73	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

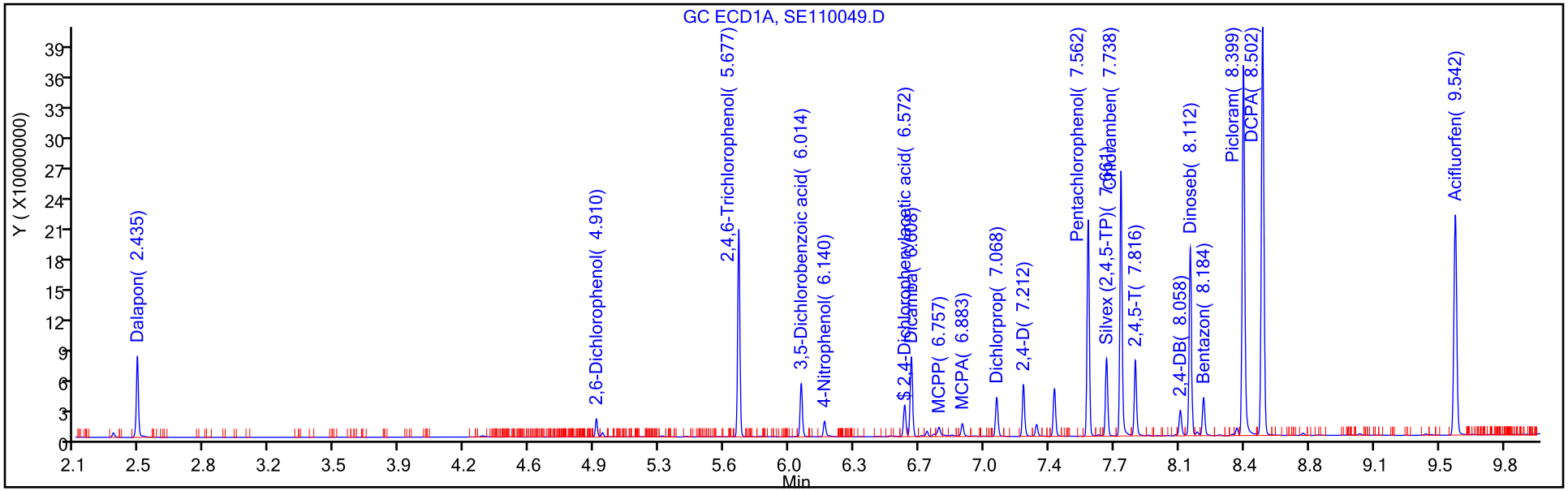
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TestAmerica Savannah

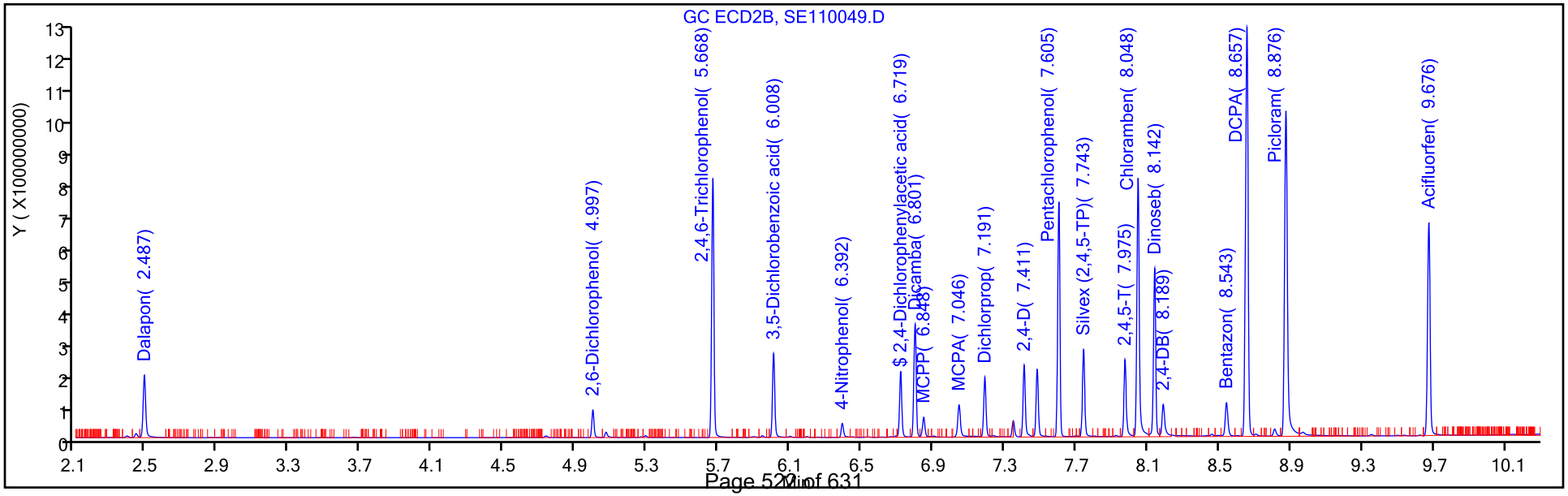
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Injection Date:	12-May-2018 02:29:25	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/49 Calibration Date: 05/12/2018 02:29

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110049.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1386204194	1112280657		0.140	0.175	-19.8	20.0
3,5-Dichlorobenzoic acid	Ave	1533919679	1289541343		0.147	0.175	-15.9	20.0
4-Nitrophenol	Ave	255346659	226510086		0.155	0.175	-11.3	20.0
Dicamba	Ave	4244164919	3584786617		0.0739	0.0875	-15.5	20.0
MCPP	Lin1		3335311		14.9	17.5	-15.0	20.0
MCPA	Lin2		6145490		14.3	17.5	-18.3	20.0
Dichlorprop	Ave	1146405622	915804674		0.140	0.175	-20.1*	20.0
2,4-D	Ave	1258856811	1114975383		0.155	0.175	-11.4	20.0
Pentachlorophenol	Ave	15678491137	13776480869		0.0384	0.0438	-12.1	20.0
Silvex (2,4,5-TP)	Ave	6038823762	5357703291		0.0388	0.0438	-11.3	20.0
2,4,5-T	Ave	5130951653	4781400366		0.0408	0.0438	-6.8	20.0
Chloramben	Ave	4732944977	4179132463		0.155	0.175	-11.7	20.0
Dinoseb	Qua		2510860737		0.150	0.175	-14.4	20.0
2,4-DB	Ave	727274265	641662303		0.154	0.175	-11.8	20.0
Bentazon	Ave	704477021	632229274		0.157	0.175	-10.3	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	8117747515	7022796291		0.151	0.175	-13.5	20.0
Picloram	Lin1		6214774291		0.129	0.175	-26.5*	20.0
Acifluorfen	Qua		3603555063		0.114	0.175	-34.9*	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1142358705	989578457		0.152	0.175	-13.4	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Lab Sample ID: CCV 680-523572/49 Calibration Date: 05/12/2018 02:29

Instrument ID: CSGS Calib Start Date: 05/11/2018 11:46

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/11/2018 14:04

Lab File ID: SE110049.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.49	2.47	2.51
3,5-Dichlorobenzoic acid	6.01	6.00	6.02
4-Nitrophenol	6.39	6.38	6.40
Dicamba	6.80	6.79	6.81
MCPP	6.85	6.84	6.86
MCPA	7.05	7.04	7.06
Dichlorprop	7.19	7.18	7.20
2,4-D	7.41	7.40	7.42
Pentachlorophenol	7.61	7.60	7.62
Silvex (2,4,5-TP)	7.74	7.73	7.75
2,4,5-T	7.98	7.97	7.99
Chloramben	8.05	8.04	8.06
Dinoseb	8.14	8.13	8.15
2,4-DB	8.19	8.18	8.20
Bentazon	8.54	8.53	8.55
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.66	8.65	8.67
Picloram	8.88	8.87	8.89
Acifluorfen	9.68	9.67	9.69
2,4-Dichlorophenylacetic acid (Surr)	6.72	6.71	6.73

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 12-May-2018 02:29:25 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-049
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:32 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:44:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.435	2.434	0.001	64833299	0.1750	0.1502	
2	2.487	2.487	0.000	194649115	0.1750	0.1404	
						RPD = 6.76	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	13847573	NC	NC	
2	4.997	4.996	0.001	69779343	NC	NC	
						RPD = 11.46	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	166524921	NC	NC	
2	5.668	5.668	0.000	683245650	NC	NC	
						RPD = 4.86	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	44893207	0.1750	0.1581	
2	6.008	6.009	-0.001	225669735	0.1750	0.1471	
						RPD = 7.18	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	15278867	0.1750	0.1653	
2	6.392	6.394	-0.002	39639265	0.1750	0.1552	
						RPD = 6.26	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.572	6.572	0.000	28081290	0.1750	0.1633	
2	6.719	6.720	-0.001	173176230	0.1750	0.1516	M
						RPD = 7.45	
7 Dicamba							M
1	6.608	6.609	-0.001	71033811	0.0875	0.0787	
2	6.801	6.800	0.001	313668829	0.0875	0.0739	M
						RPD = 6.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.757	6.757	0.000	10920504	17.5	18.3	
2	6.848	6.848	0.000	58367940	17.5	14.9	M
						RPD = 20.49	
9 MCPA							M
1	6.883	6.883	0.000	12820719	17.5	18.4	
2	7.046	7.046	0.000	107546076	17.5	14.3	M
						RPD = 25.12	
10 Dichlorprop							M
1	7.068	7.069	-0.001	35684069	0.1750	0.1551	
2	7.191	7.191	0.000	160265818	0.1750	0.1398	M
						RPD = 10.35	
11 2,4-D							M
1	7.212	7.214	-0.002	43877432	0.1750	0.1606	
2	7.411	7.412	-0.001	195120692	0.1750	0.1550	M
						RPD = 3.57	
12 Pentachlorophenol							M
1	7.562	7.562	0.000	178909326	0.0438	0.0409	
2	7.605	7.605	0.000	602721038	0.0438	0.0384	M
						RPD = 6.26	
13 Silvex (2,4,5-TP)							M
1	7.661	7.661	0.000	65767804	0.0438	0.0412	
2	7.743	7.744	-0.001	234399519	0.0438	0.0388	M
						RPD = 5.98	
14 Chloramben							M
1	7.738	7.739	-0.001	218680334	0.1750	0.1615	
2	8.048	8.049	-0.001	731348181	0.1750	0.1545	M
						RPD = 4.39	
15 2,4,5-T							M
1	7.816	7.816	0.000	63971517	0.0438	0.0412	
2	7.975	7.976	-0.001	209186266	0.0438	0.0408	M
						RPD = 1.16	
16 2,4-DB							M
1	8.058	8.059	-0.001	24059962	0.1750	0.1651	
2	8.189	8.190	-0.001	112290903	0.1750	0.1544	M
						RPD = 6.70	
17 Dinoseb							M
1	8.112	8.113	-0.001	161448437	0.1750	0.1780	
2	8.142	8.141	0.001	439400629	0.1750	0.1498	M
						RPD = 17.19	
18 Bentazon							M
1	8.184	8.184	0.000	35316070	0.1750	0.1597	
2	8.543	8.544	-0.001	110640123	0.1750	0.1571	M
						RPD = 1.65	
19 Picloram							M
1	8.399	8.399	0.000	345257434	0.1750	0.1526	
2	8.876	8.877	-0.001	1087585501	0.1750	0.1286	M
						RPD = 17.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.502	8.504	-0.002	385010550	0.1750	0.1595	
2	8.657	8.658	-0.001	1228989351	0.1750	0.1514	M
						RPD = 5.21	
21 Acifluorfen							
1	9.542	9.543	-0.001	231486899	0.1750	0.1306	
2	9.676	9.677	-0.001	630622136	0.1750	0.1139	
						RPD = 13.73	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

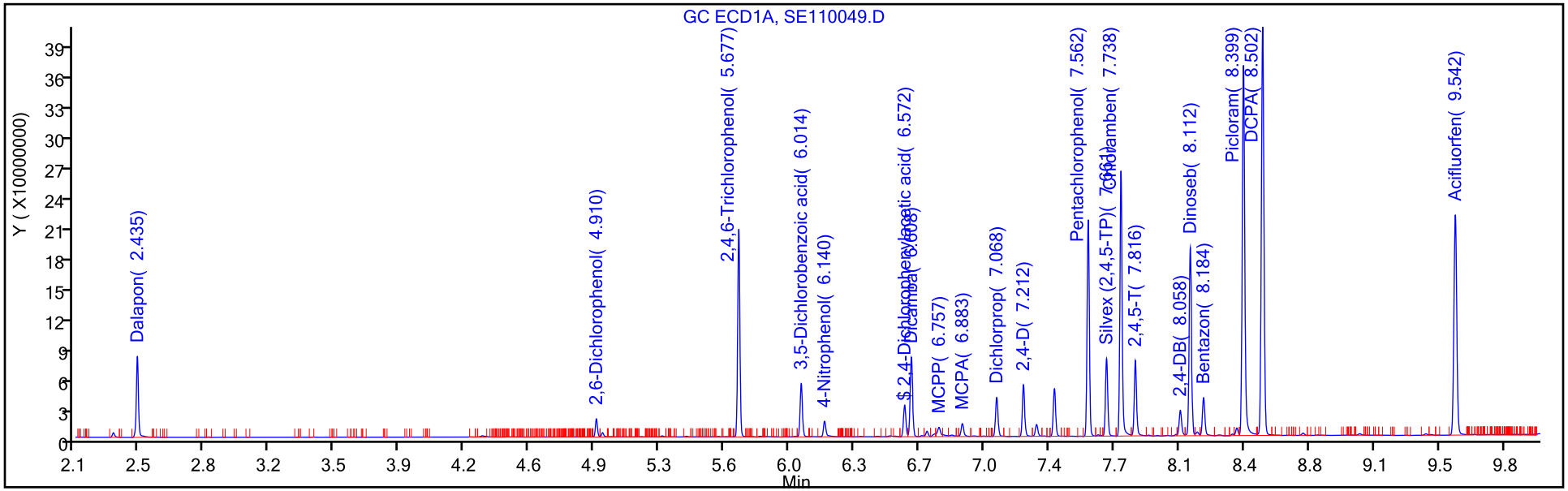
Report Date: 12-May-2018 10:47:36 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

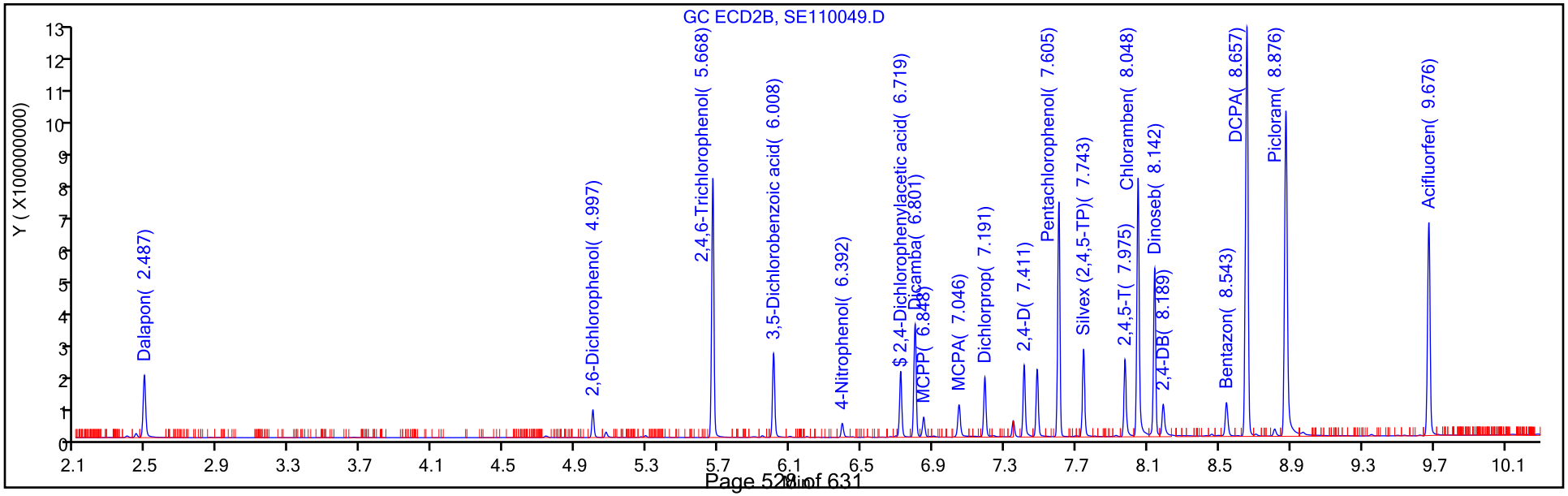
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Injection Date:	12-May-2018 02:29:25	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	49
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

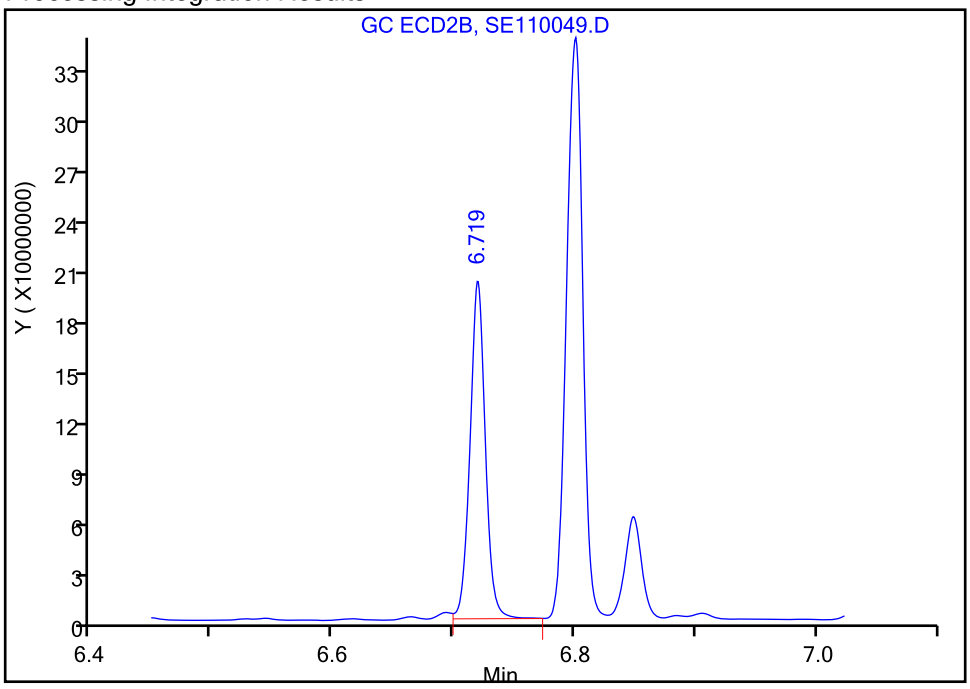
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

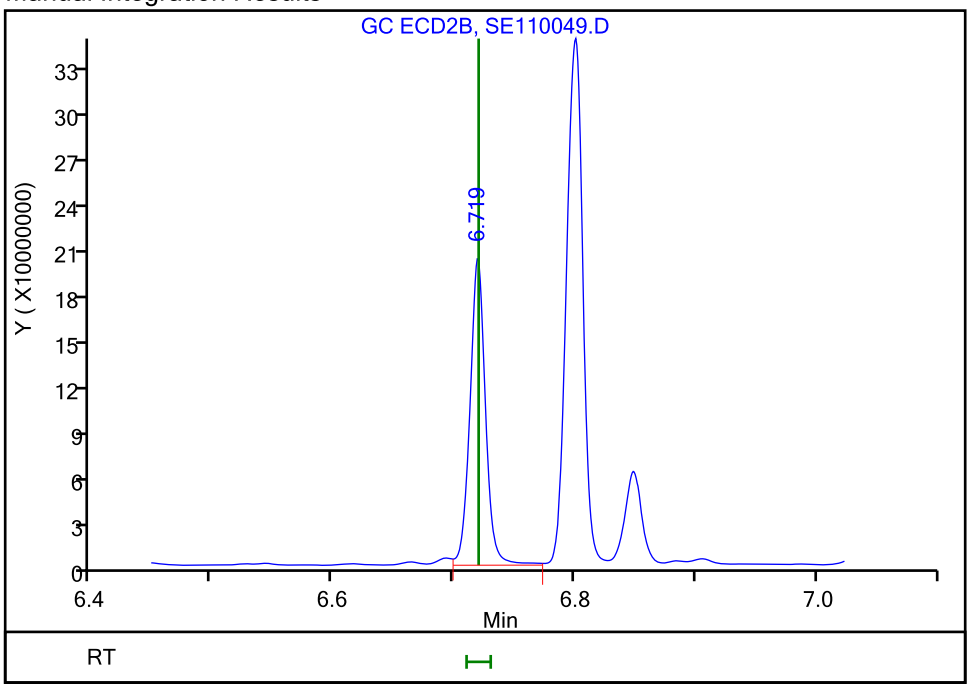
Processing Integration Results

RT: 6.72
Area: 168980944
Amount: 0.147923
Amount Units: ug/ml



Manual Integration Results

RT: 6.72
Area: 173176230
Amount: 0.151595
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

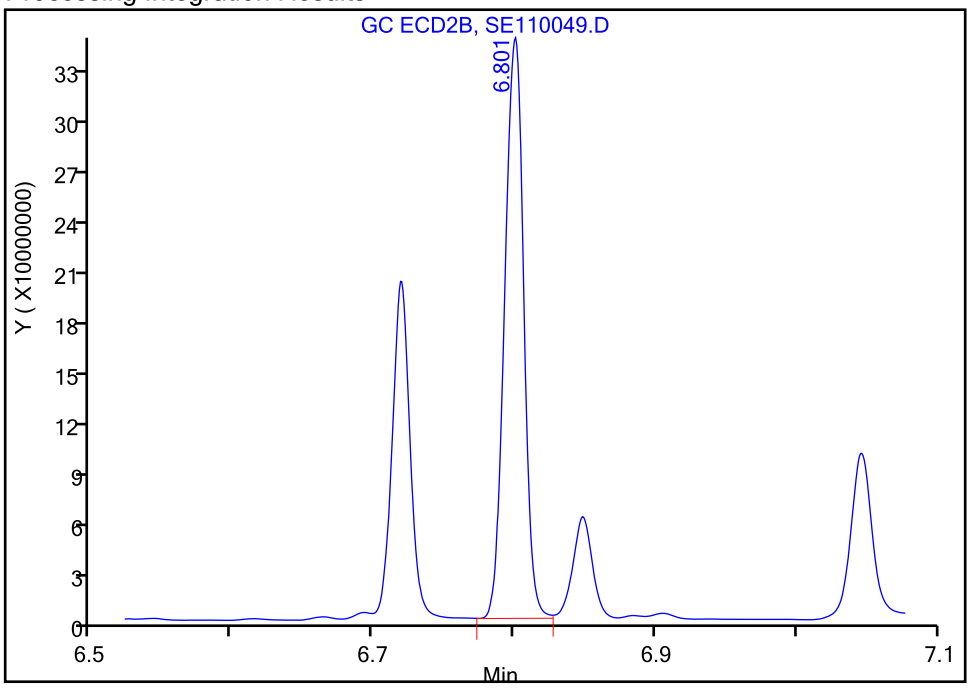
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

7 Dicamba, CAS: 1918-00-9

Signal: 2

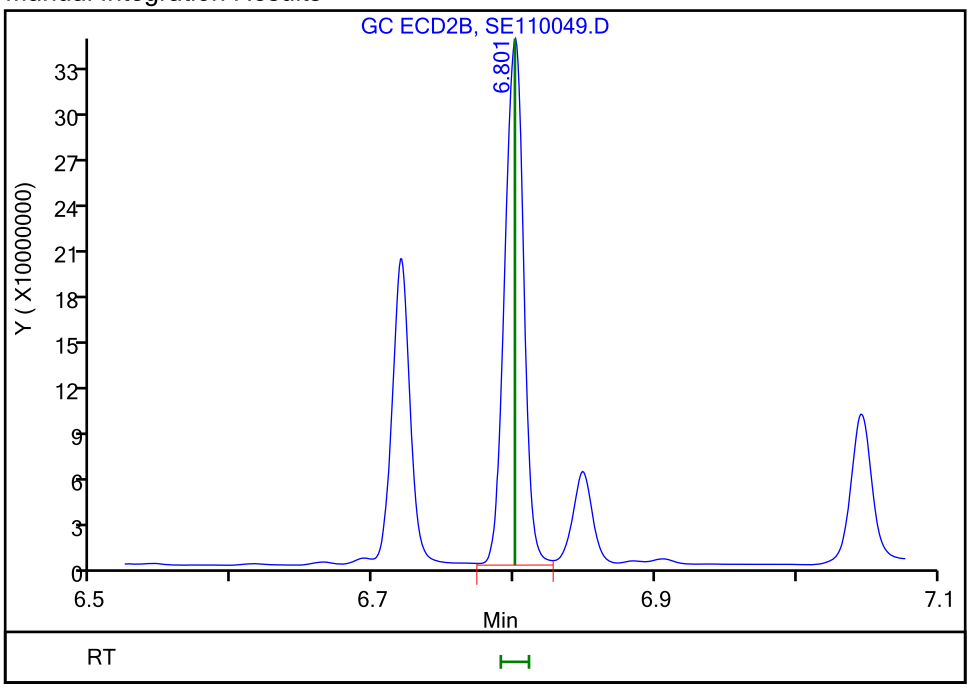
Processing Integration Results

RT: 6.80
Area: 310269893
Amount: 0.073105
Amount Units: ug/ml



Manual Integration Results

RT: 6.80
Area: 313668829
Amount: 0.073906
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

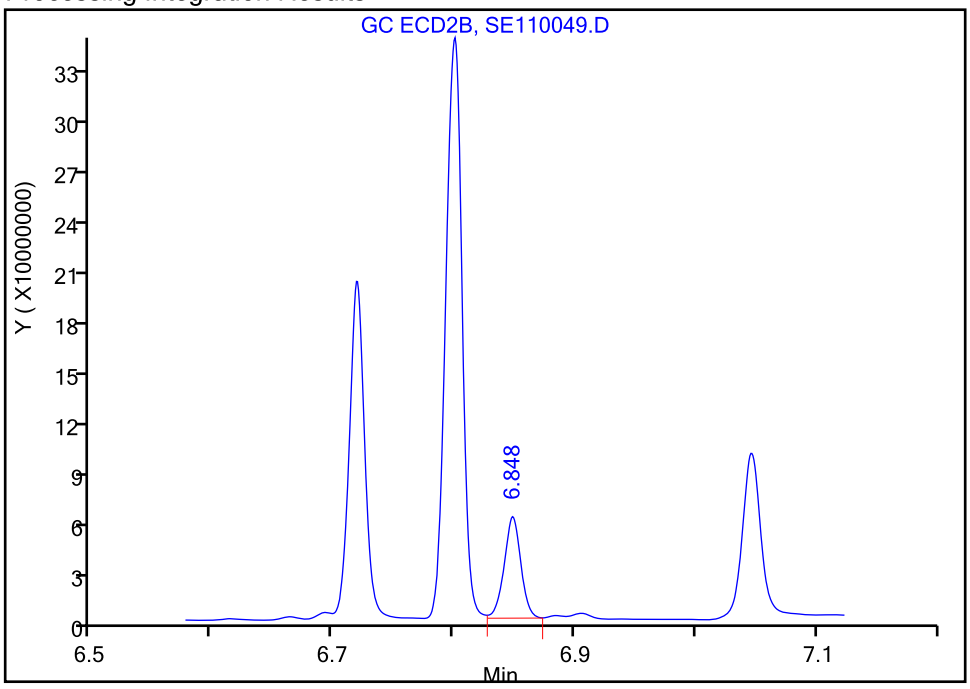
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

8 MCPP, CAS: 93-65-2

Signal: 2

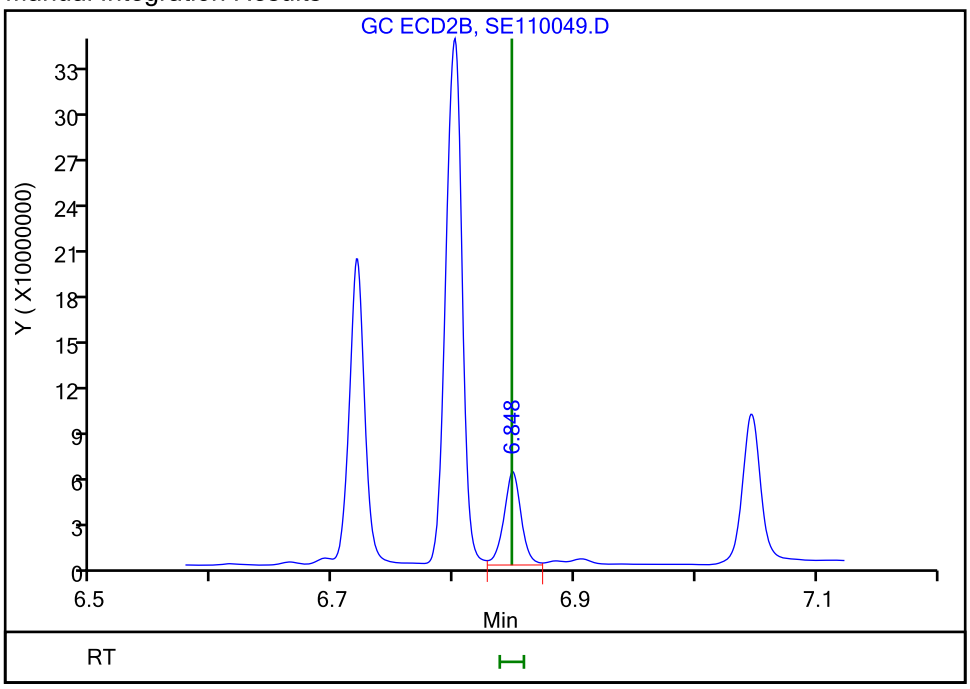
Processing Integration Results

RT: 6.85
Area: 55302170
Amount: 14.038314
Amount Units: ug/ml



Manual Integration Results

RT: 6.85
Area: 58367940
Amount: 14.869568
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

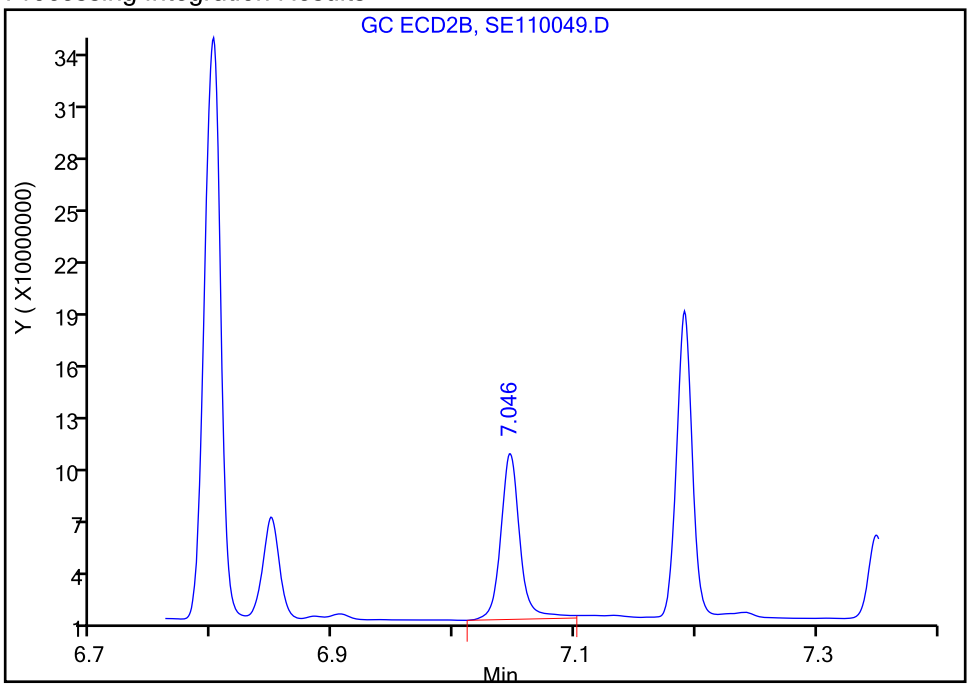
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

9 MCPA, CAS: 94-74-6

Signal: 2

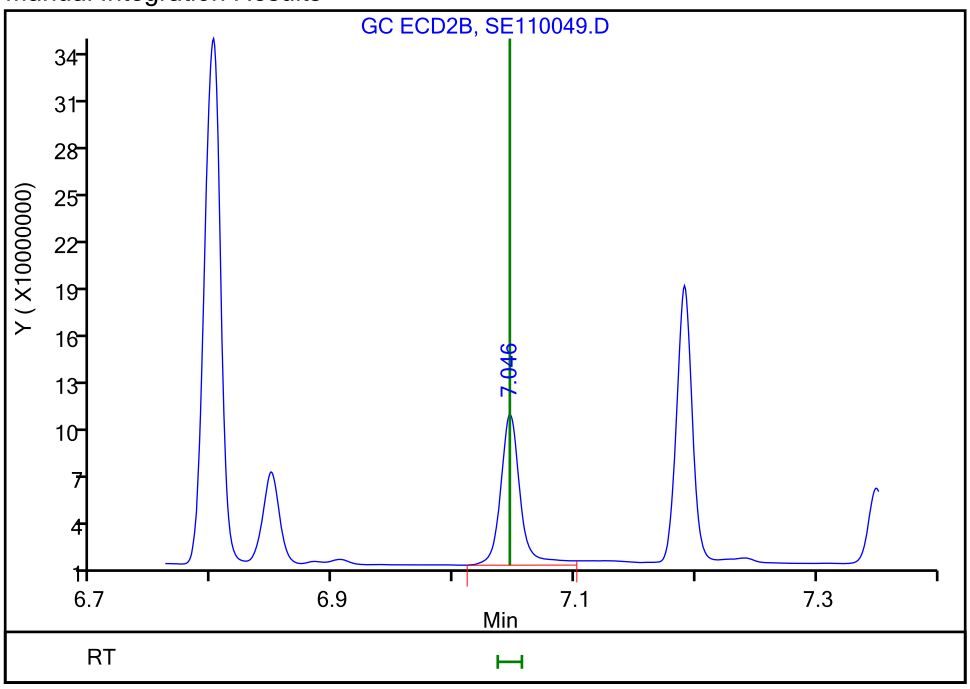
Processing Integration Results

RT: 7.05
Area: 104118032
Amount: 13.812680
Amount Units: ug/ml



Manual Integration Results

RT: 7.05
Area: 107546076
Amount: 14.295324
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

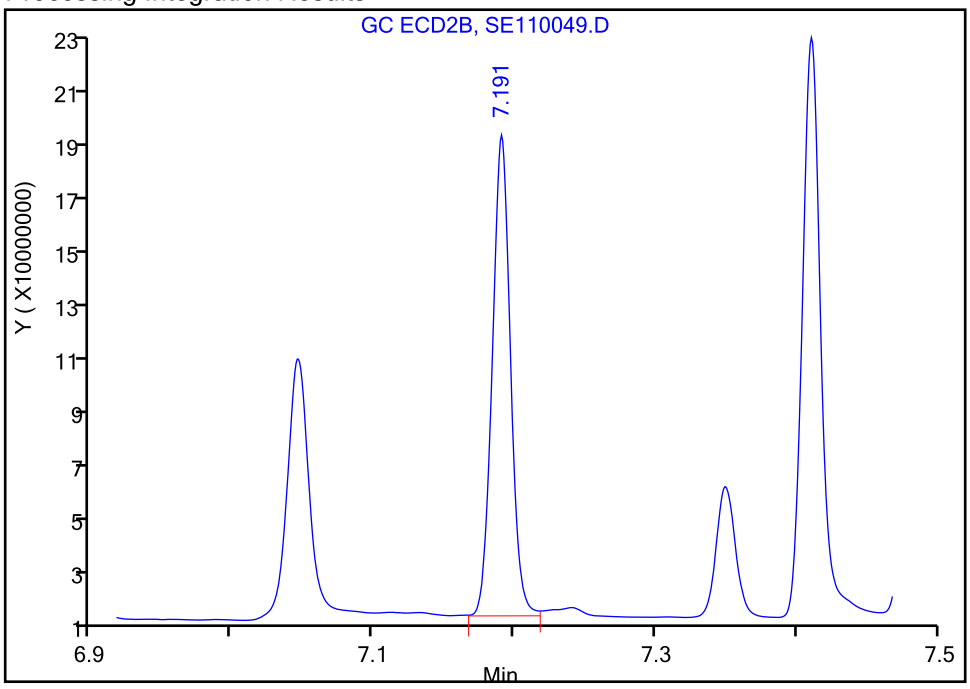
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

10 Dichlorprop, CAS: 120-36-5

Signal: 2

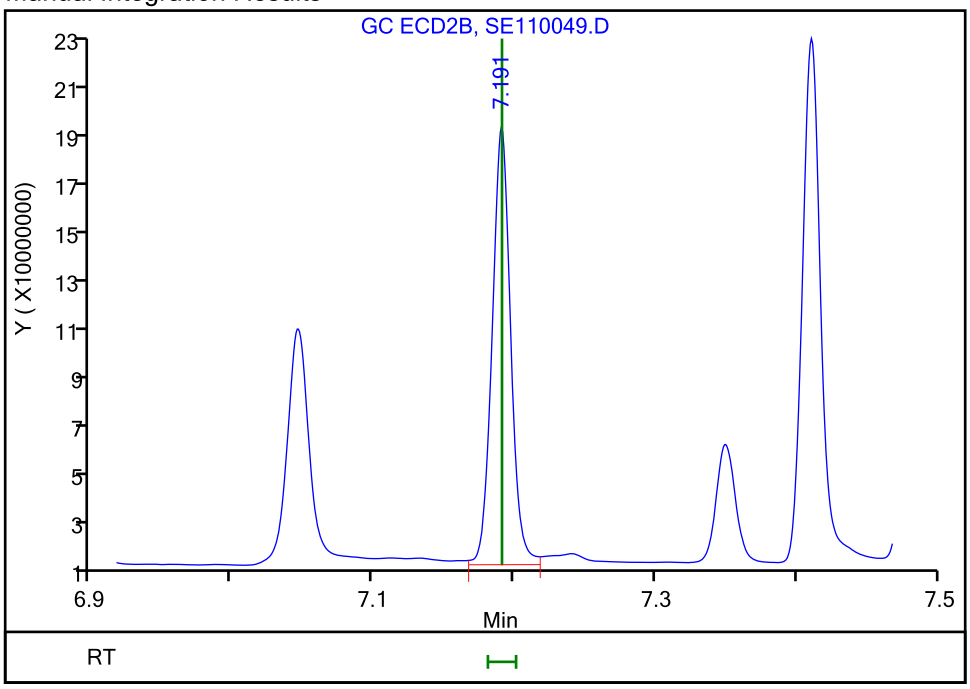
Processing Integration Results

RT: 7.19
Area: 155969448
Amount: 0.136051
Amount Units: ug/ml



Manual Integration Results

RT: 7.19
Area: 160265818
Amount: 0.139799
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

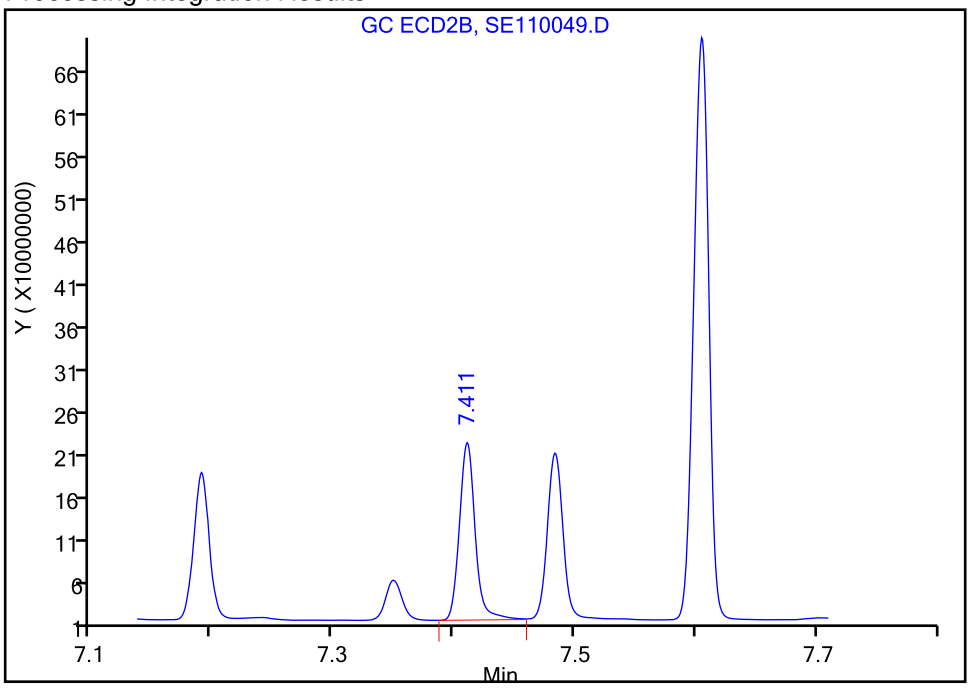
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7

Signal: 2

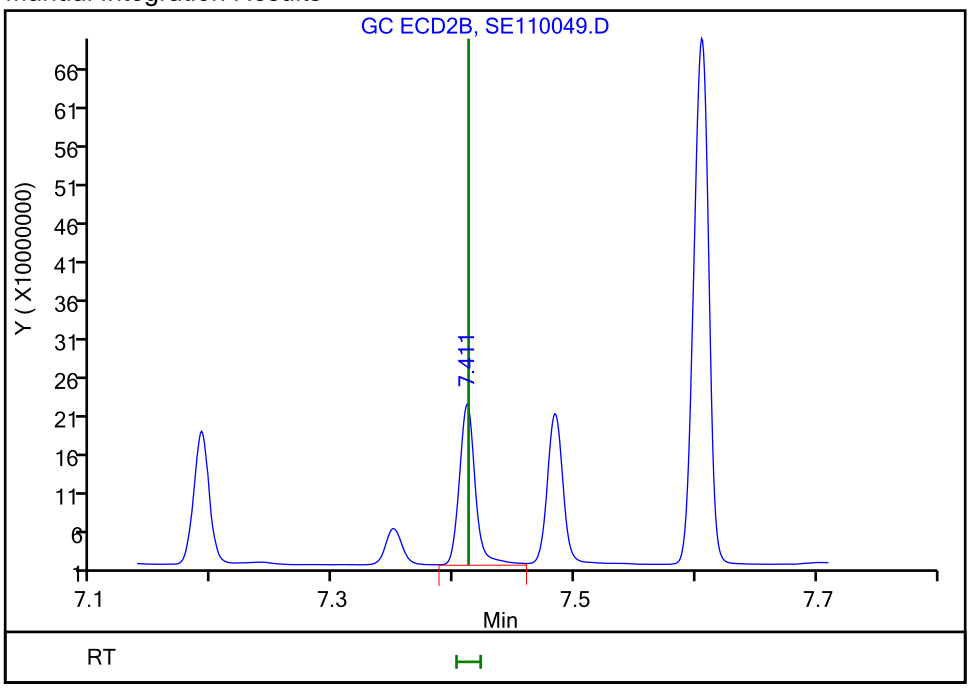
Processing Integration Results

RT: 7.41
Area: 190438043
Amount: 0.151279
Amount Units: ug/ml



Manual Integration Results

RT: 7.41
Area: 195120692
Amount: 0.154998
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

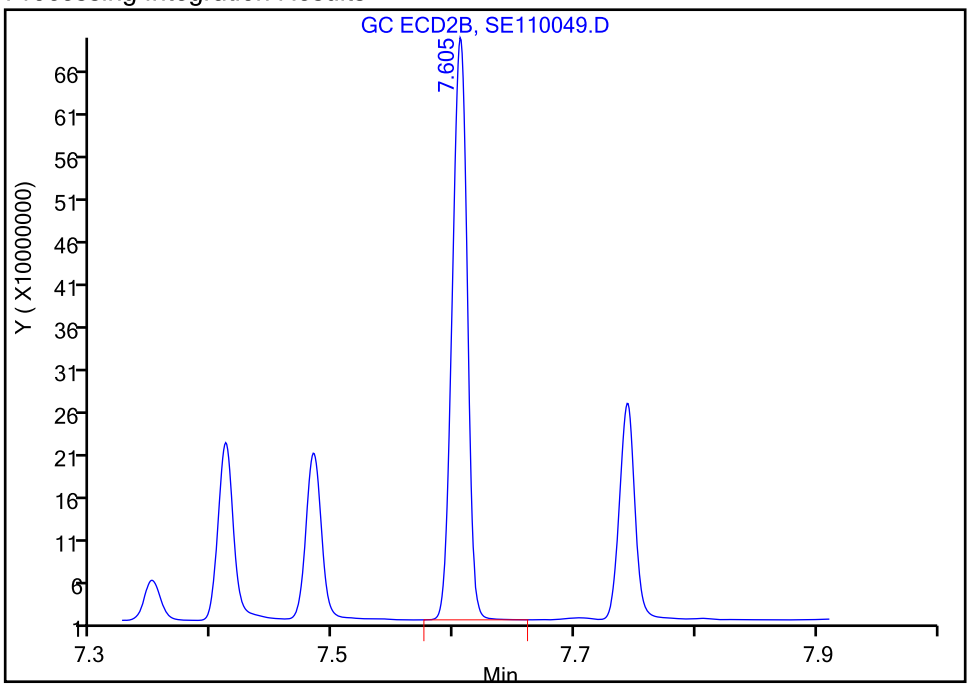
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

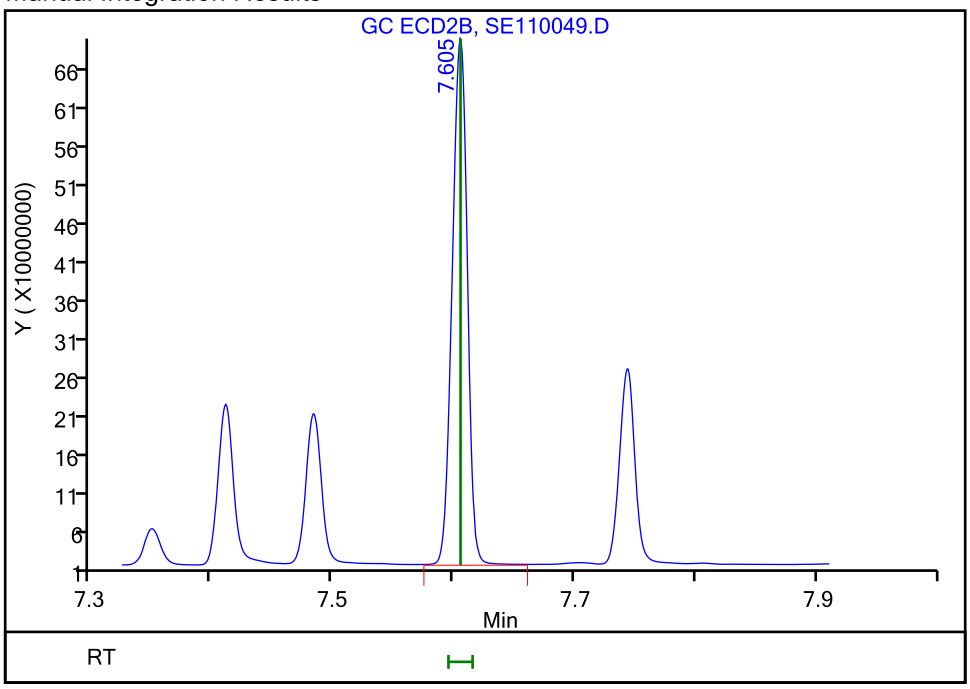
Processing Integration Results

RT: 7.60
Area: 597685342
Amount: 0.038121
Amount Units: ug/ml



Manual Integration Results

RT: 7.60
Area: 602721038
Amount: 0.038443
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

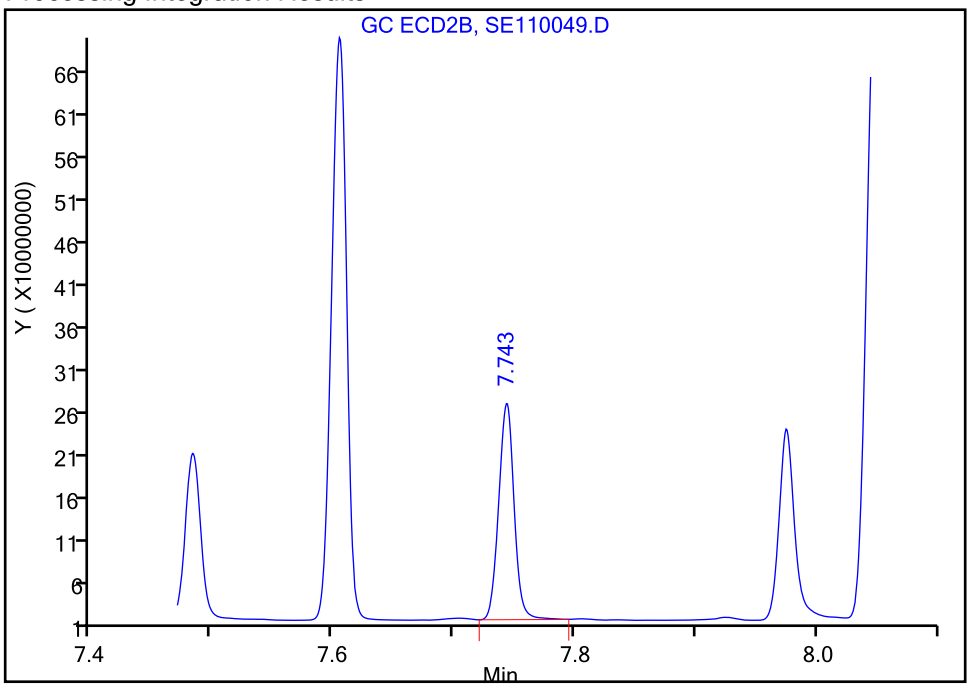
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D
Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

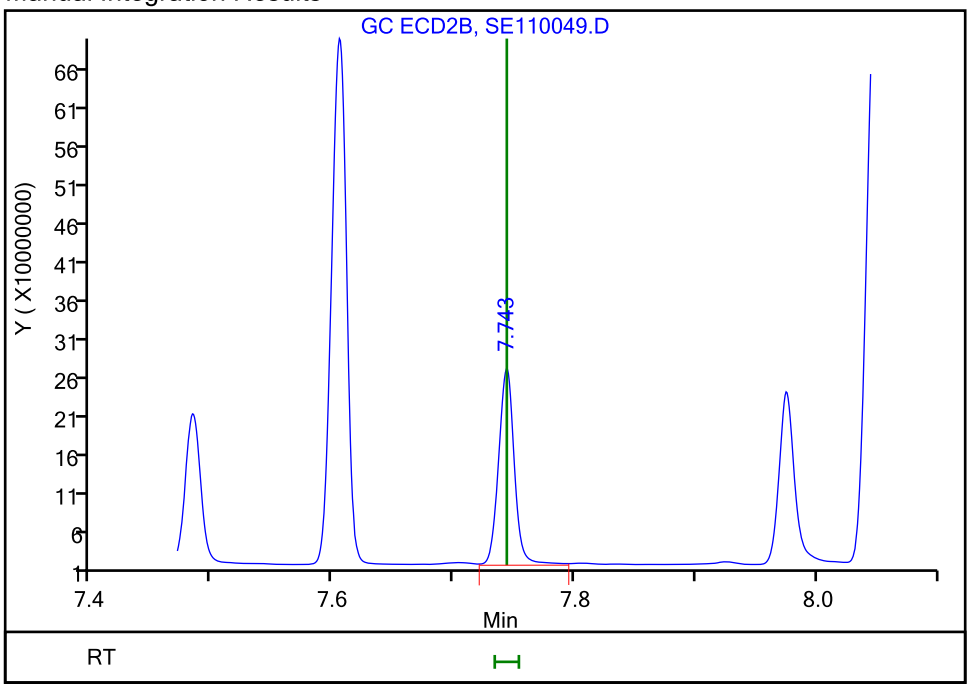
Processing Integration Results

RT: 7.74
Area: 226845390
Amount: 0.037564
Amount Units: ug/ml



Manual Integration Results

RT: 7.74
Area: 234399519
Amount: 0.038815
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

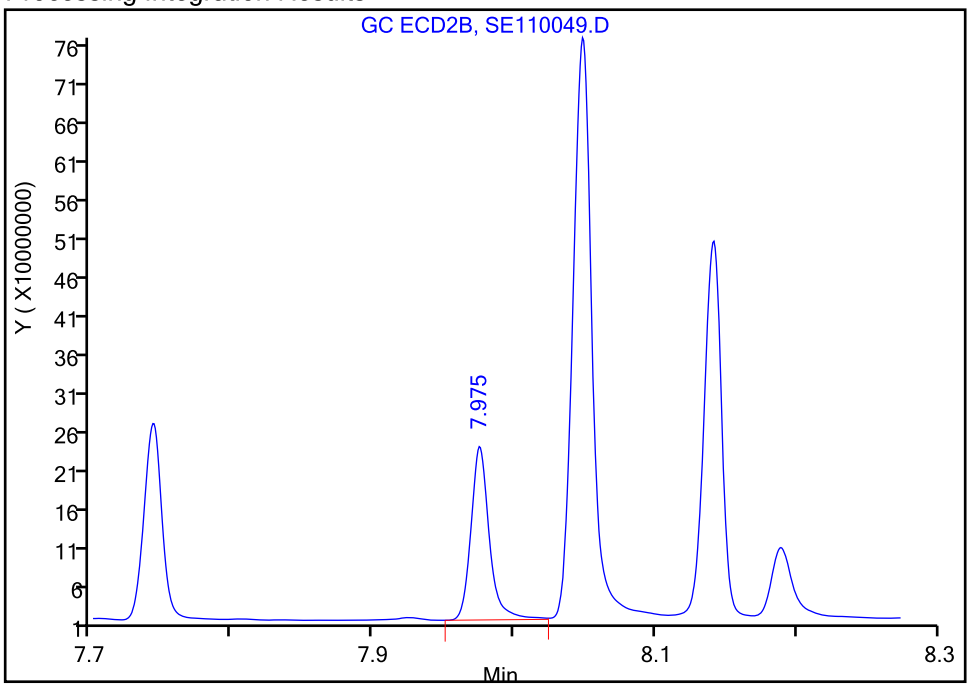
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5

Signal: 2

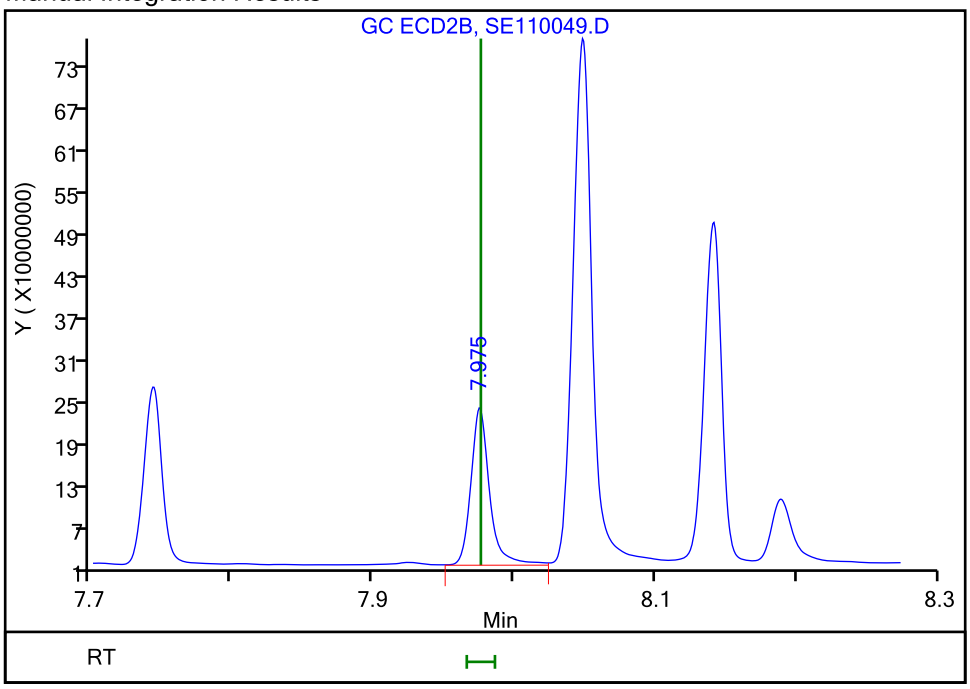
Processing Integration Results

RT: 7.97
Area: 204202646
Amount: 0.039798
Amount Units: ug/ml



Manual Integration Results

RT: 7.97
Area: 209186266
Amount: 0.040769
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

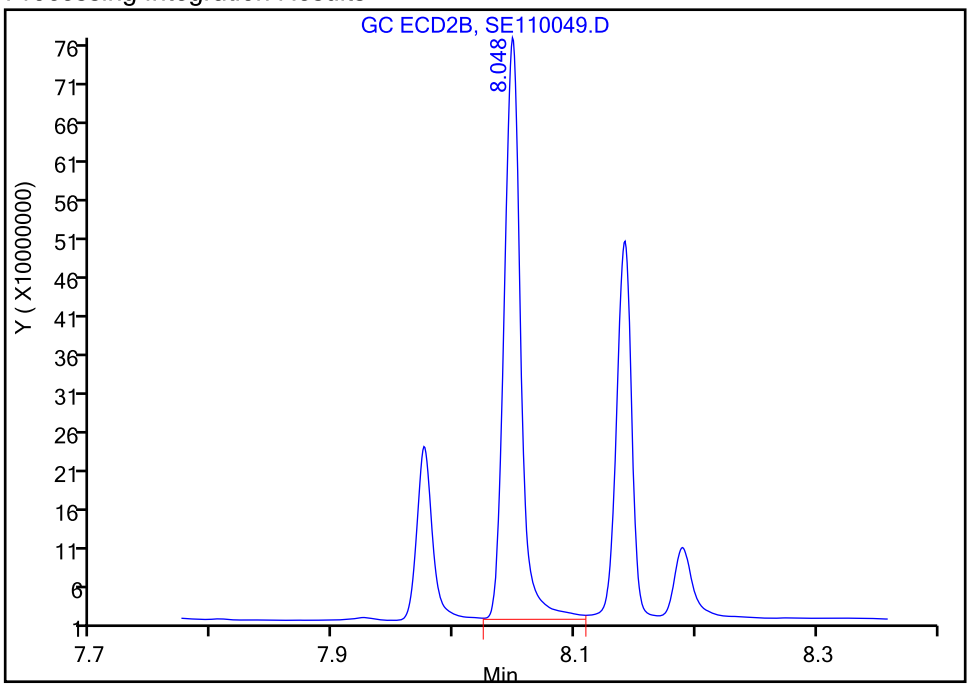
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Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

14 Chloramben, CAS: 133-90-4

Signal: 2

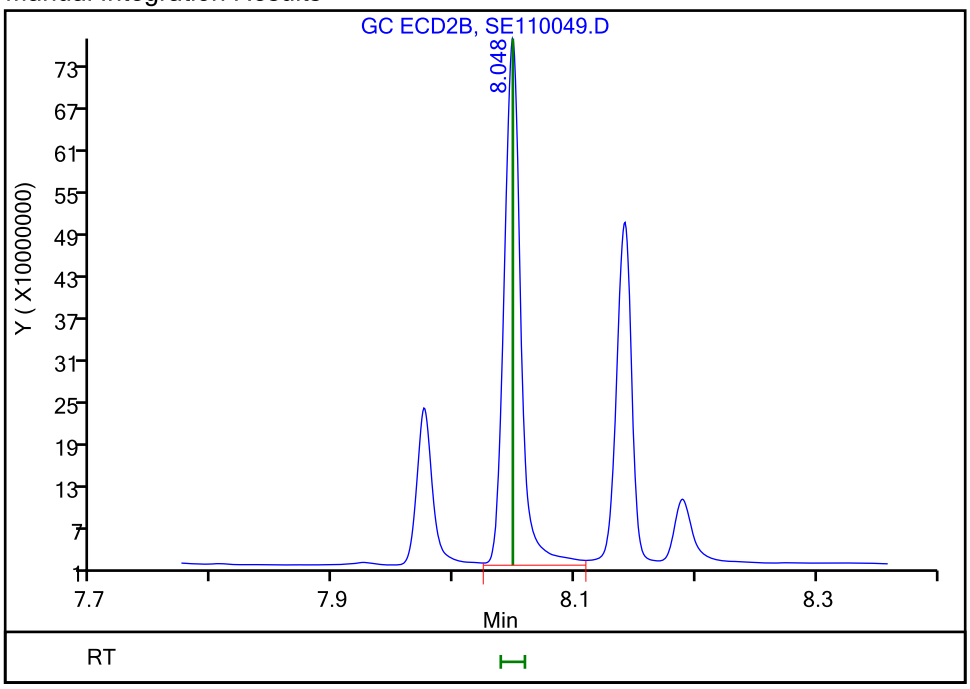
Processing Integration Results

RT: 8.05
Area: 722798337
Amount: 0.152716
Amount Units: ug/ml



Manual Integration Results

RT: 8.05
Area: 731348181
Amount: 0.154523
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

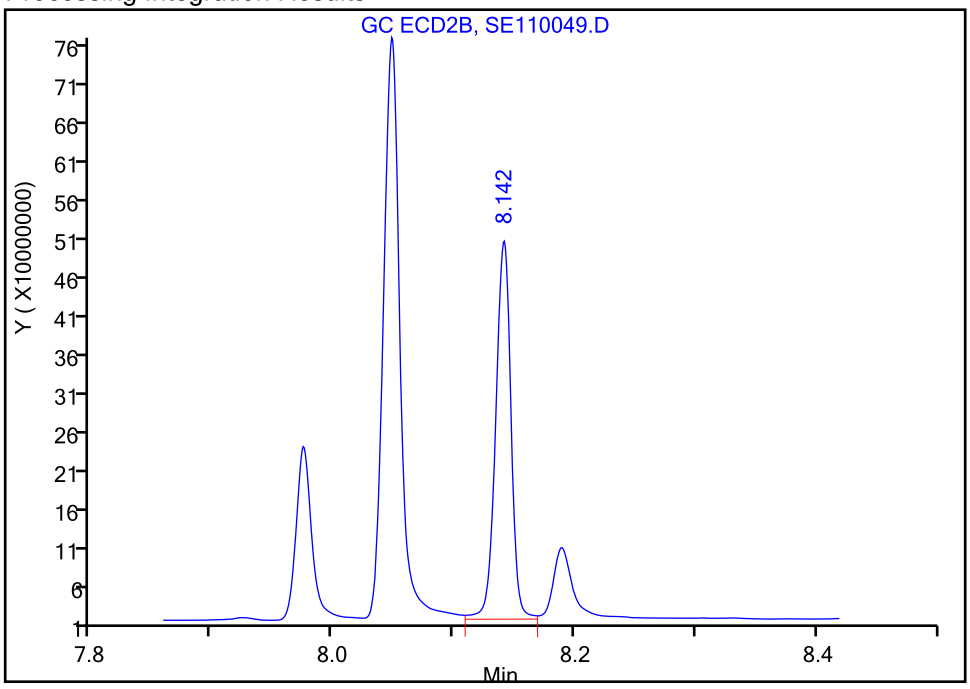
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D
Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

17 Dinoseb, CAS: 88-85-7

Signal: 2

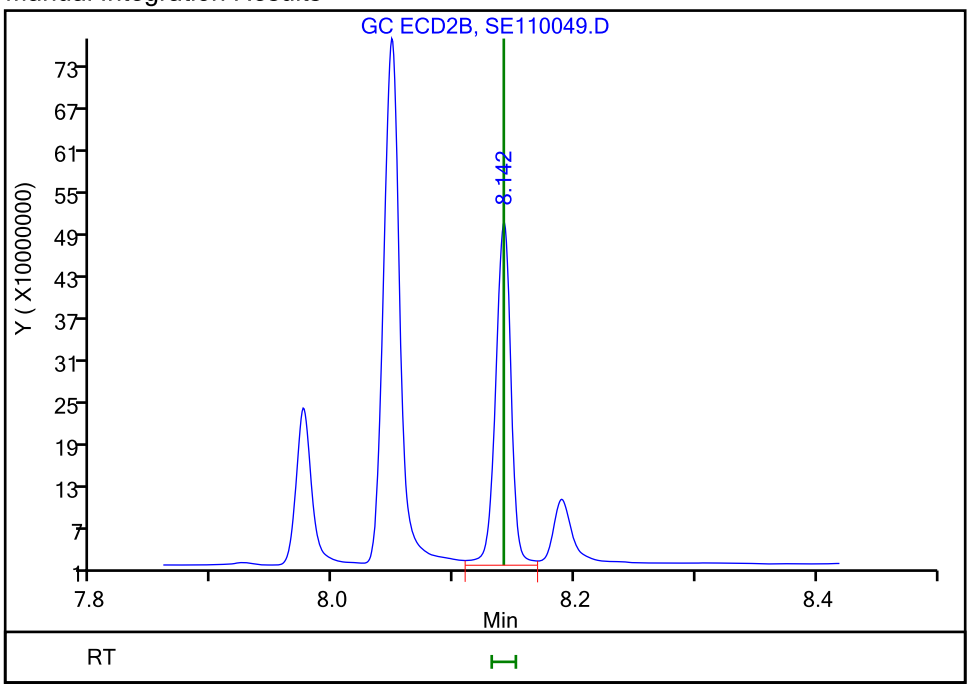
Processing Integration Results

RT: 8.14
Area: 433169868
Amount: 0.147918
Amount Units: ug/ml



Manual Integration Results

RT: 8.14
Area: 439400629
Amount: 0.149838
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

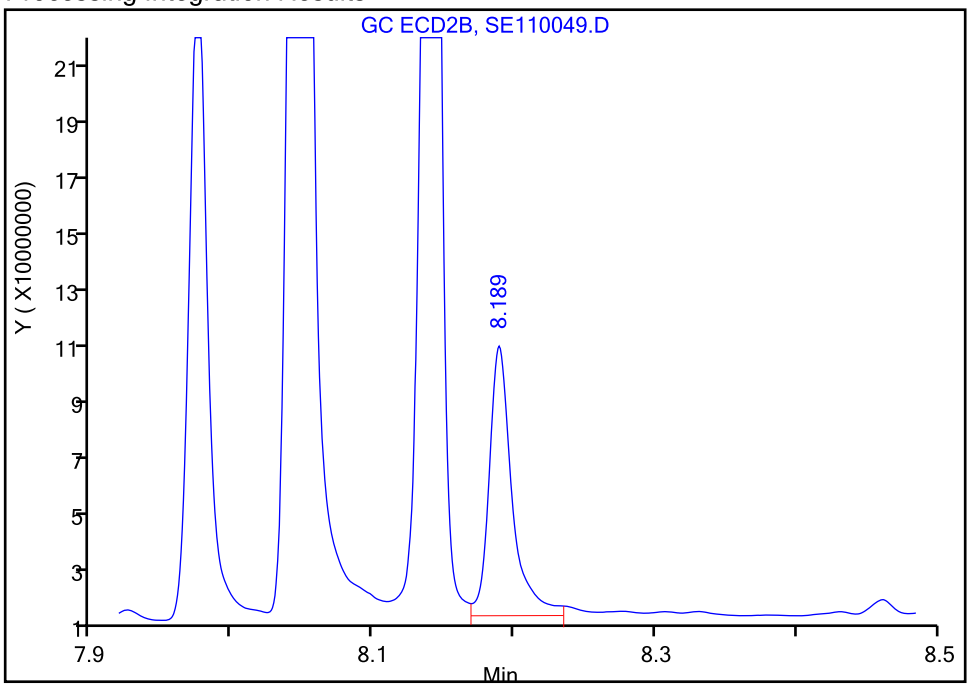
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D
Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

16 2,4-DB, CAS: 94-82-6

Signal: 2

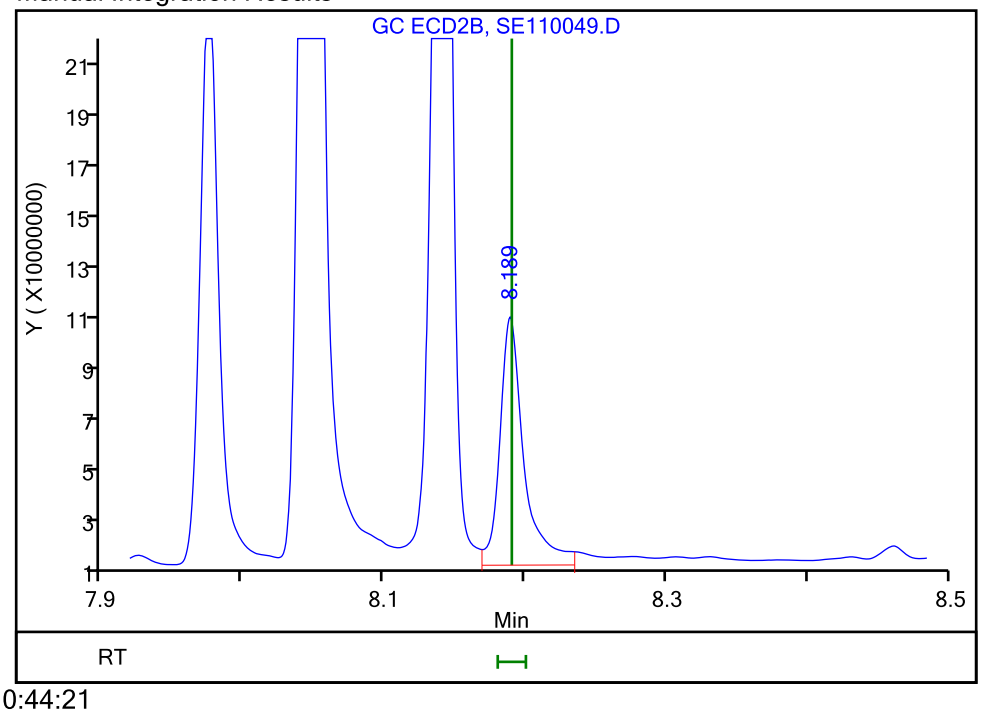
Processing Integration Results

RT: 8.19
Area: 105286941
Amount: 0.144769
Amount Units: ug/ml



Manual Integration Results

RT: 8.19
Area: 112290903
Amount: 0.154400
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

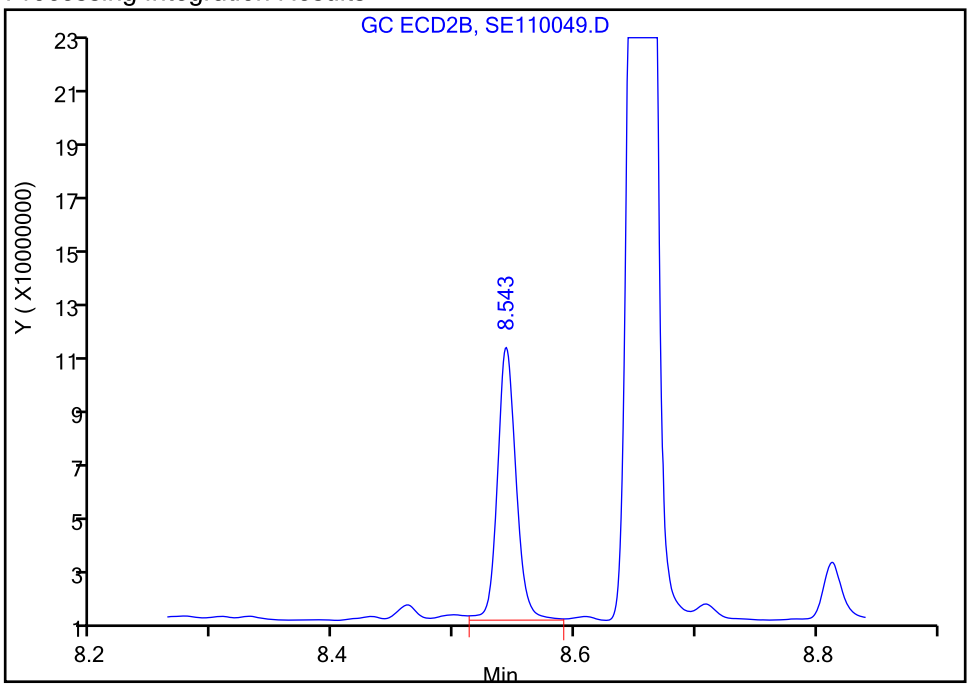
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D
Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

18 Bentazon, CAS: 25057-89-0

Signal: 2

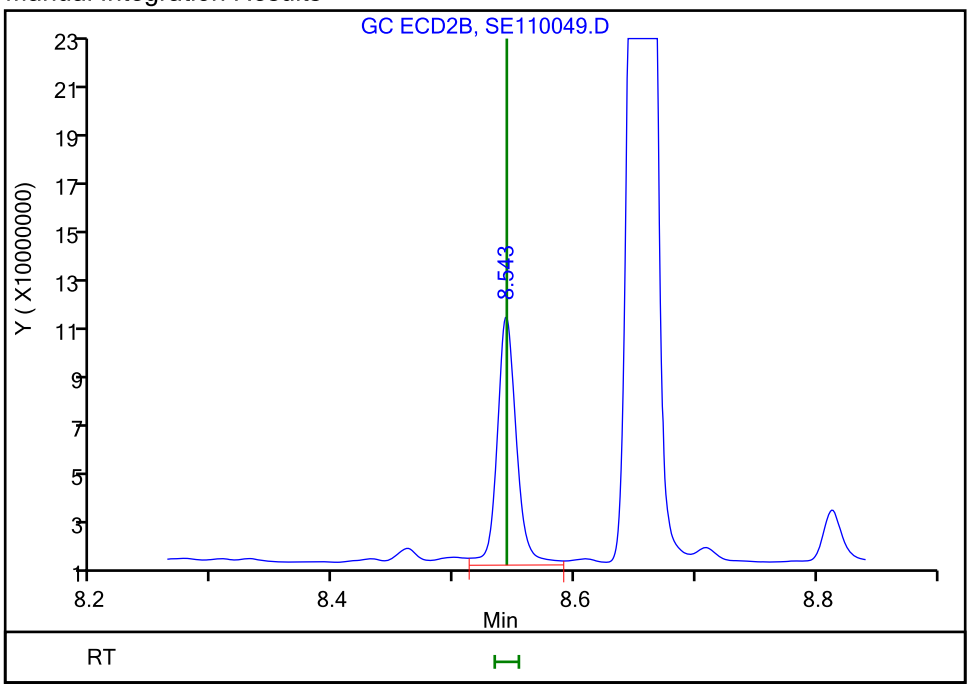
Processing Integration Results

RT: 8.54
Area: 104998952
Amount: 0.149045
Amount Units: ug/ml



Manual Integration Results

RT: 8.54
Area: 110640123
Amount: 0.157053
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

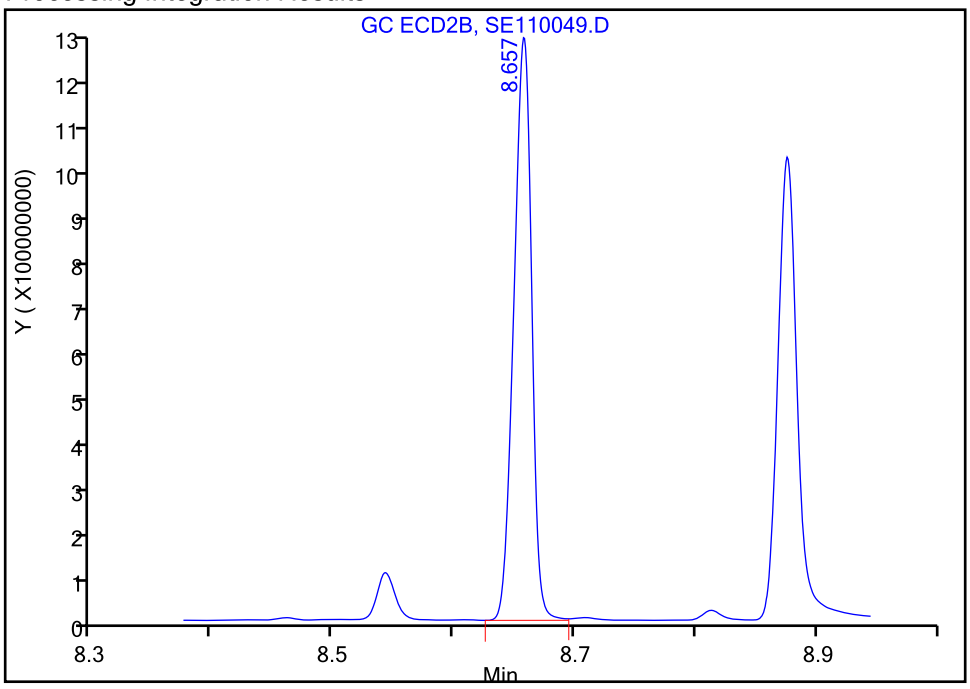
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D
Injection Date: 12-May-2018 02:29:25 Instrument ID: CSGS
Lims ID: ccv h5
Client ID:
Operator ID: GEM ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

20 DCPA, CAS: 1861-32-1

Signal: 2

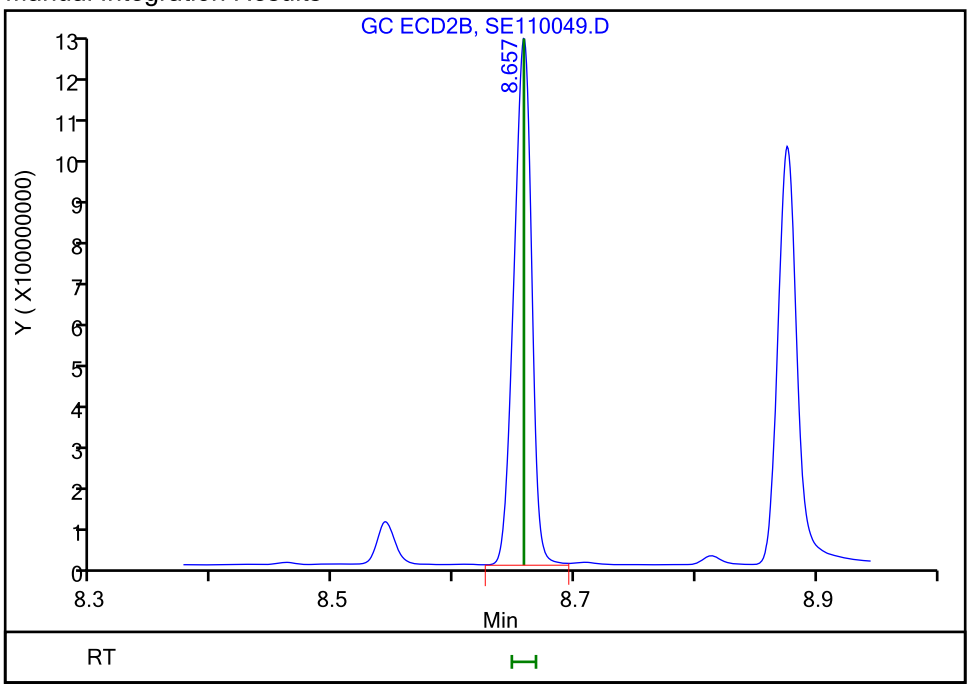
Processing Integration Results

RT: 8.66
Area: 1224776504
Amount: 0.150876
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 1228989351
Amount: 0.151395
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

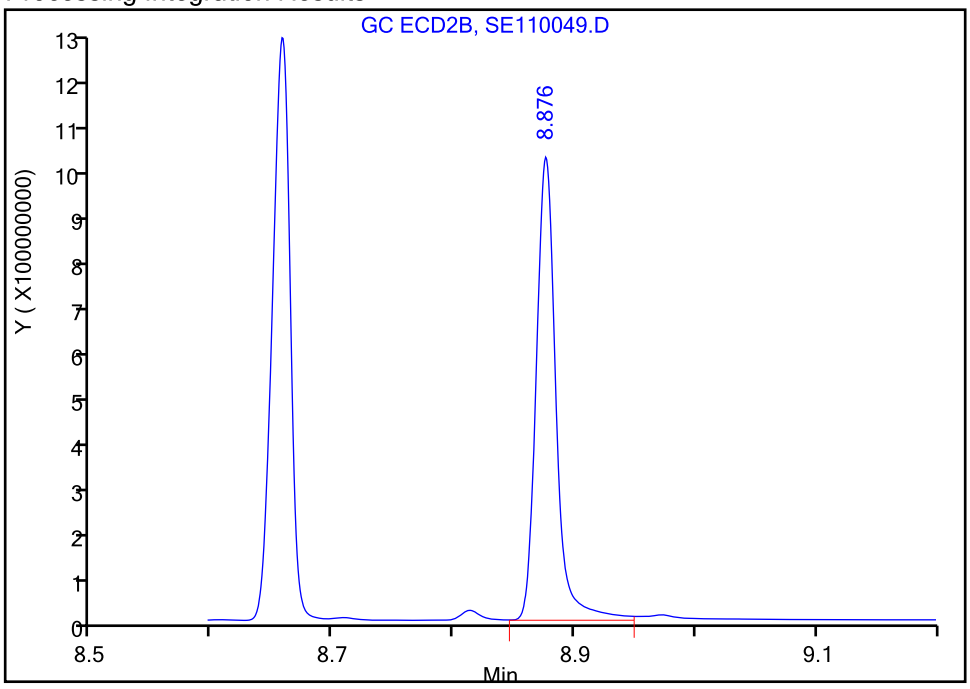
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110049.D				
Injection Date:	12-May-2018 02:29:25	Instrument ID:	CSGS		
Lims ID:	ccv h5				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

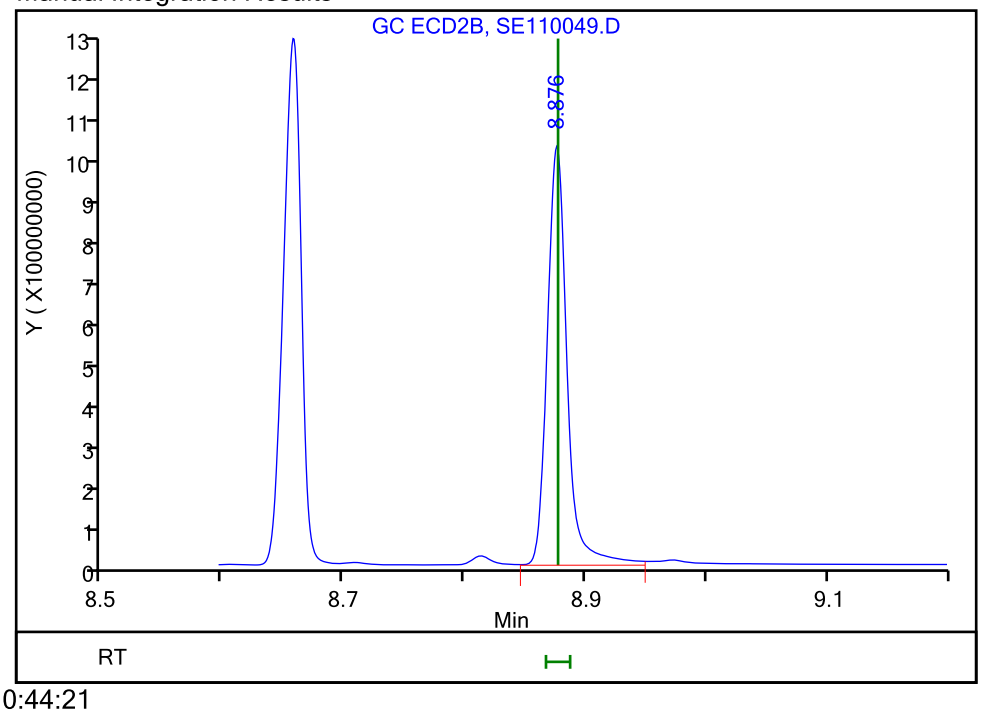
Processing Integration Results

RT: 8.88
Area: 1082627076
Amount: 0.128029
Amount Units: ug/ml



Manual Integration Results

RT: 8.88
Area: 1087585501
Amount: 0.128573
Amount Units: ug/ml



Reviewer: kellarj, 12-May-2018 10:44:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 680-522658/4-A

Matrix: Solid | Lab File ID: SE090034.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.63(g) | Date Analyzed: 05/10/2018 03:48

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.2	U M	8.1	4.2	2.3
94-75-7	2,4-D	8.1	U	8.1	8.1	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	69		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090034.D
Lims ID: MB 680-522658/4-A
Client ID:
Sample Type: MB
Inject. Date: 10-May-2018 03:48:42 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-034
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:19:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	32697760	0.2000	0.1656	
2	6.751	6.752	-0.001	172716908	0.2000	0.1388	
						RPD = 17.61	
11 2,4-D							
1	7.245	7.246	-0.001	1847430		0.005853	
2	7.443	7.443	0.000	6282664		0.004304	
						RPD = 30.51	

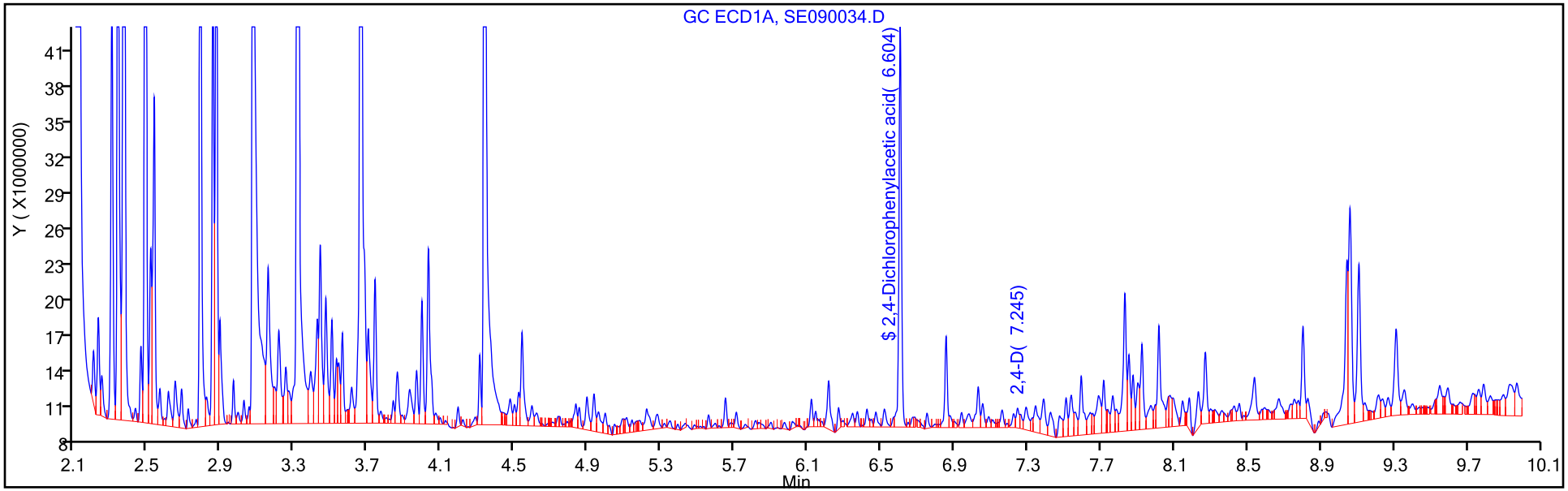
Report Date: 10-May-2018 11:24:59 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

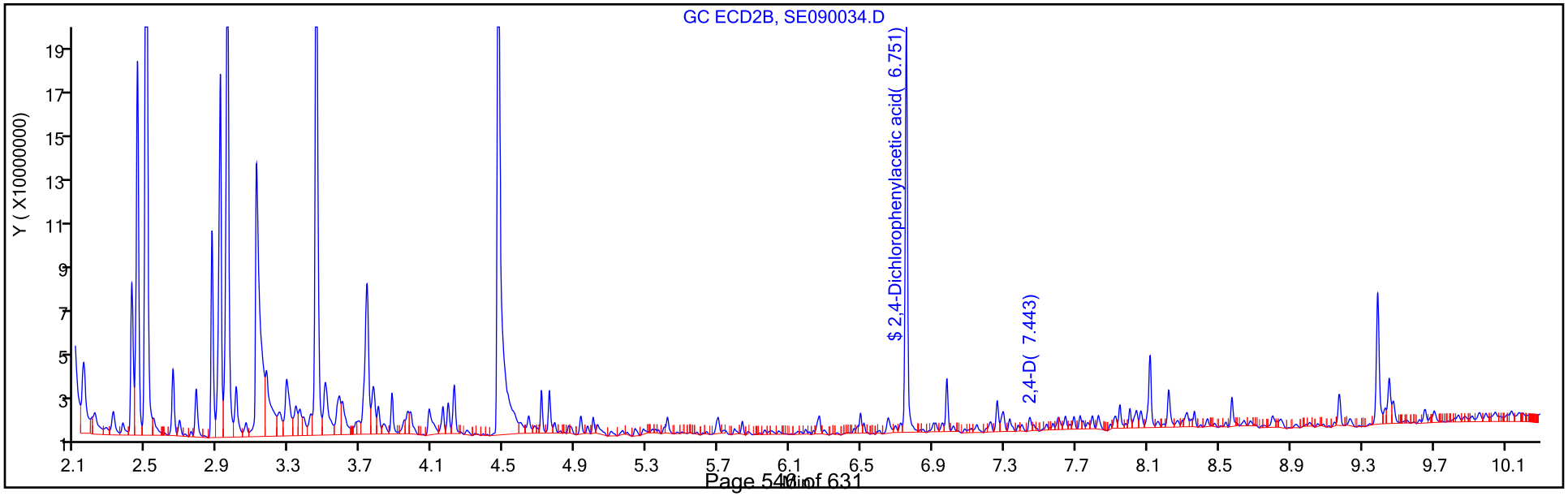
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090034.D

Injection Date:	10-May-2018 03:48:42	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	MB 680-522658/4-A			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090034.D				
Lims ID:	MB 680-522658/4-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	10-May-2018 03:48:42	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-034				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:19:33		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1656	82.81

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1388	69.41

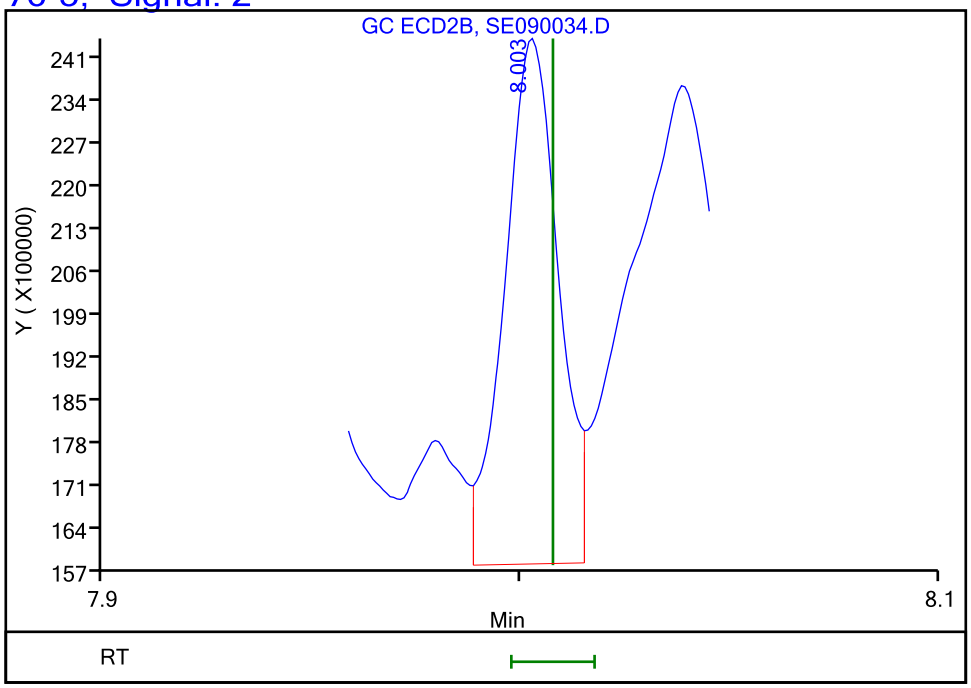
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090034.D
Injection Date: 10-May-2018 03:48:42 Instrument ID: CSGS
Lims ID: MB 680-522658/4-A
Client ID:
Operator ID: GEM ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

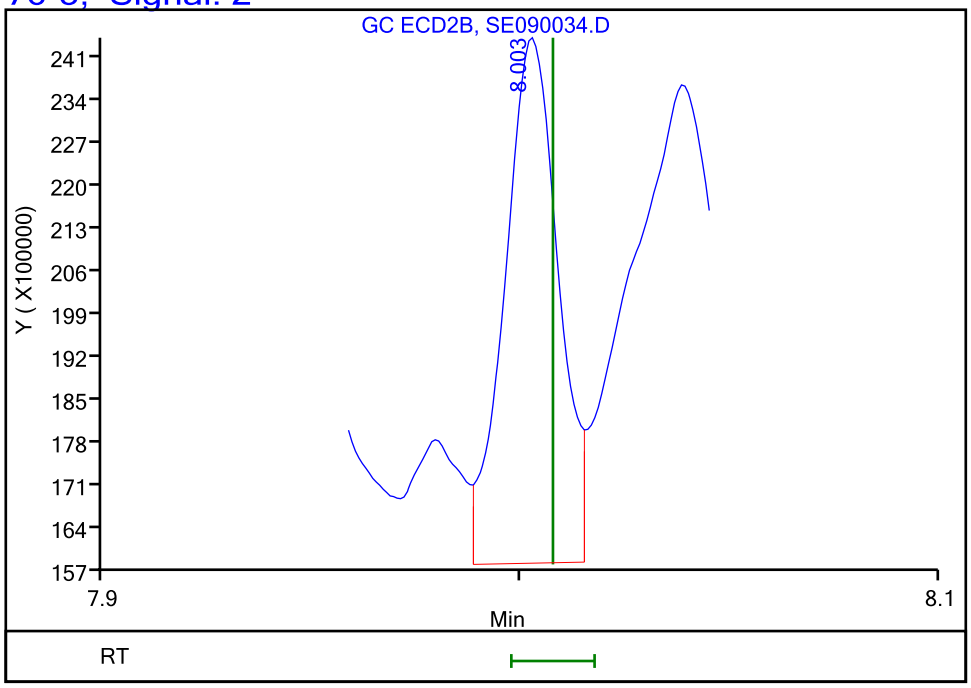
RT: 8.00
Response: 7692564
Amount: 0.001234



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 8.00
Response: 7692564
Amount: 0.001234



Reviewer: kellarj, 10-May-2018 11:19:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523317/33

Matrix: Solid | Lab File ID: SE090033.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/10/2018 03:29

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U M	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	86		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 10-May-2018 03:29:06 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-033
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:01:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	170978225	1.00	0.8660	
2	6.754	6.752	0.002	966106132	1.00	0.7765	
						RPD = 10.90	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

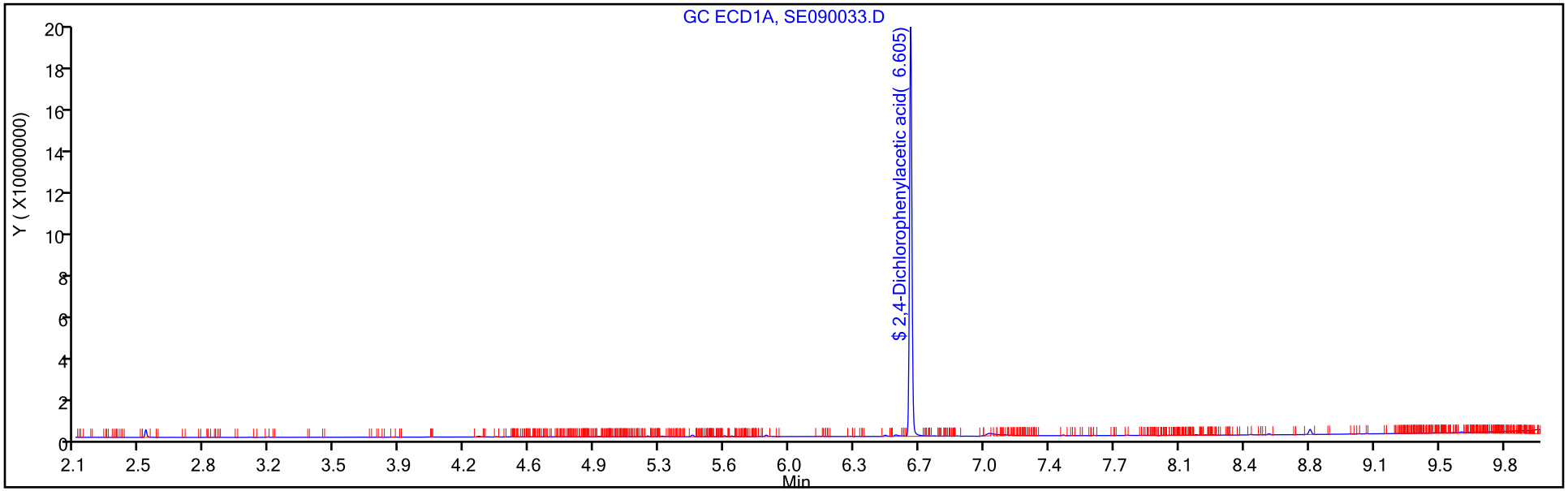
Report Date: 10-May-2018 11:25:05 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

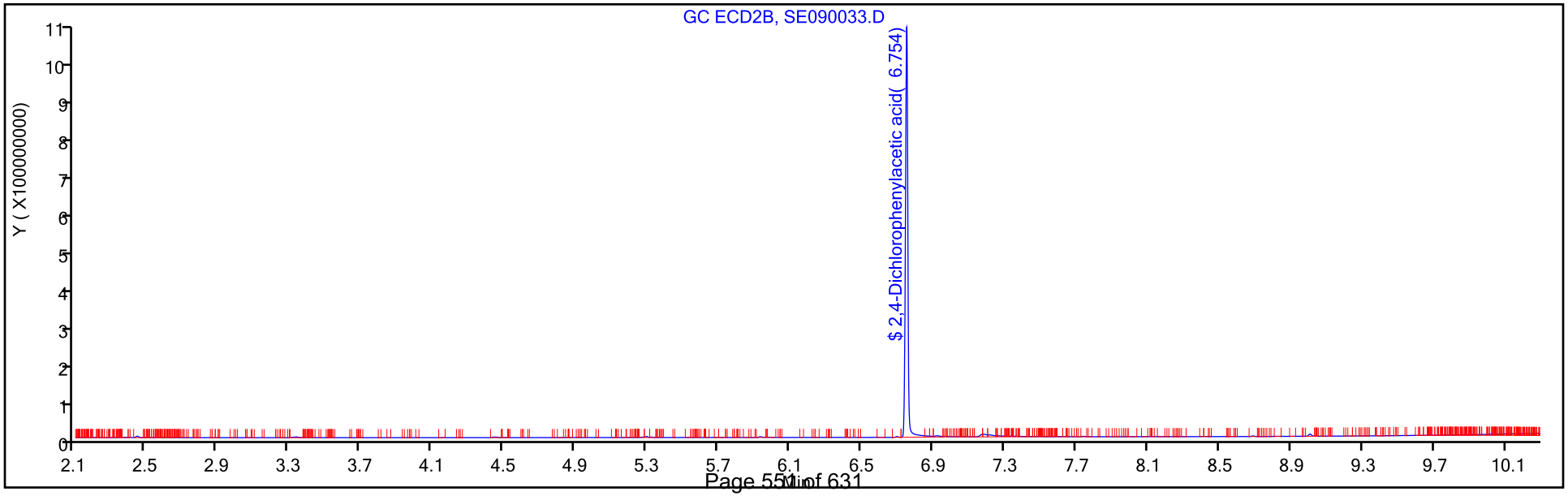
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D

Injection Date:	10-May-2018 03:29:06	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	10-May-2018 03:29:06	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-033				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:01:17		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8660	86.25

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7765	77.34

User Disabled Compound Report

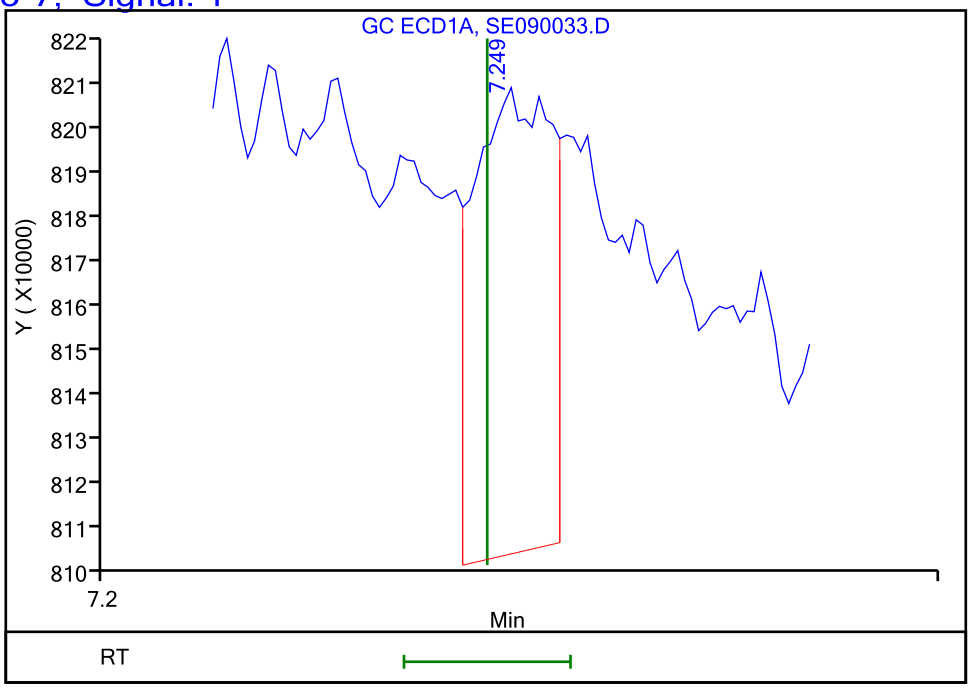
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D
Injection Date: 10-May-2018 03:29:06 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Detector GC ECD1A

11 2,4-D, CAS: 94-75-7, Signal: 1

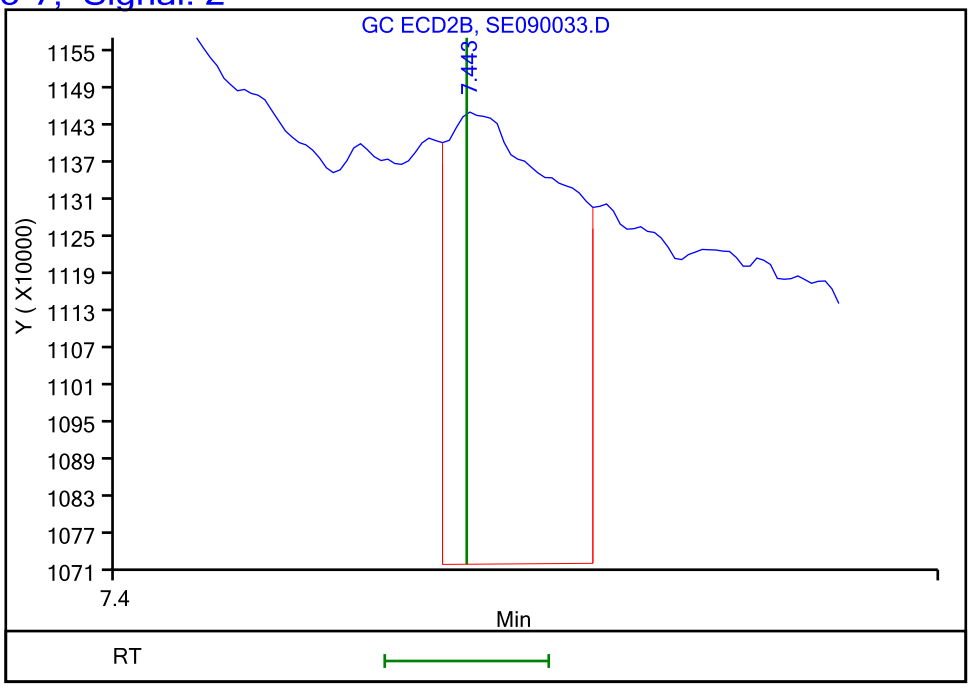
RT: 7.25
Response: 59805
Amount: 0.000189



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.44
Response: 722485
Amount: 0.000495



Reviewer: kellarj, 10-May-2018 11:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523317/33

Matrix: Solid | Lab File ID: SE090033.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/10/2018 03:29

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U M*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	77		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 10-May-2018 03:29:06 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-033
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:01:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	170978225	1.00	0.8660	
2	6.754	6.752	0.002	966106132	1.00	0.7765	
						RPD = 10.90	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

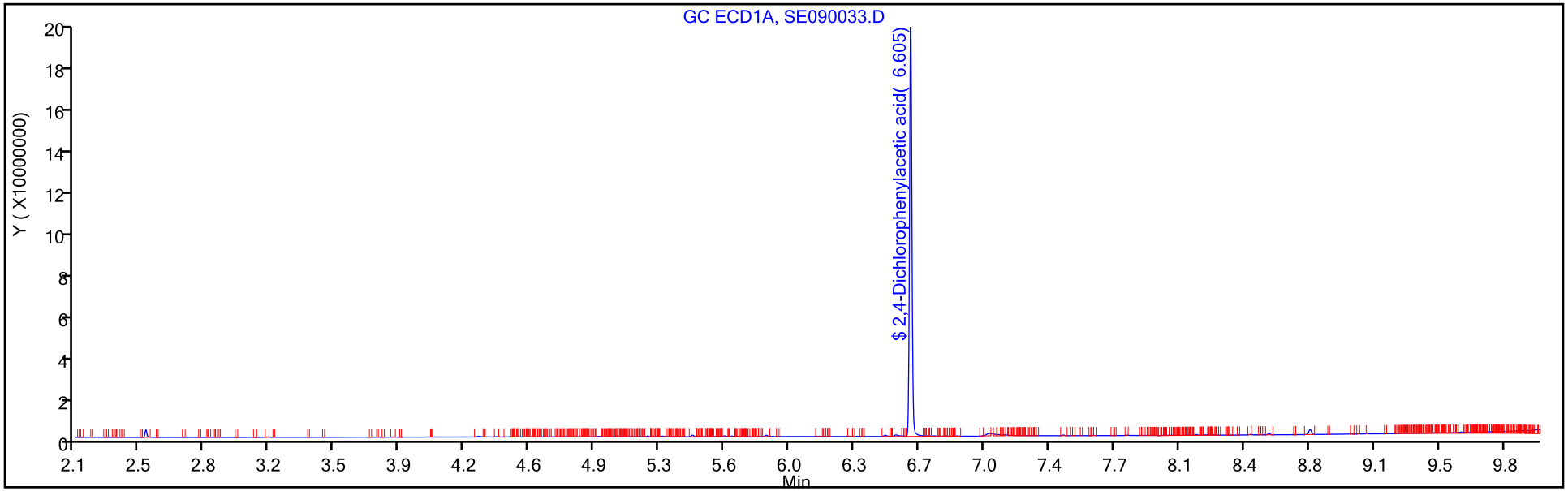
Report Date: 10-May-2018 11:25:07 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

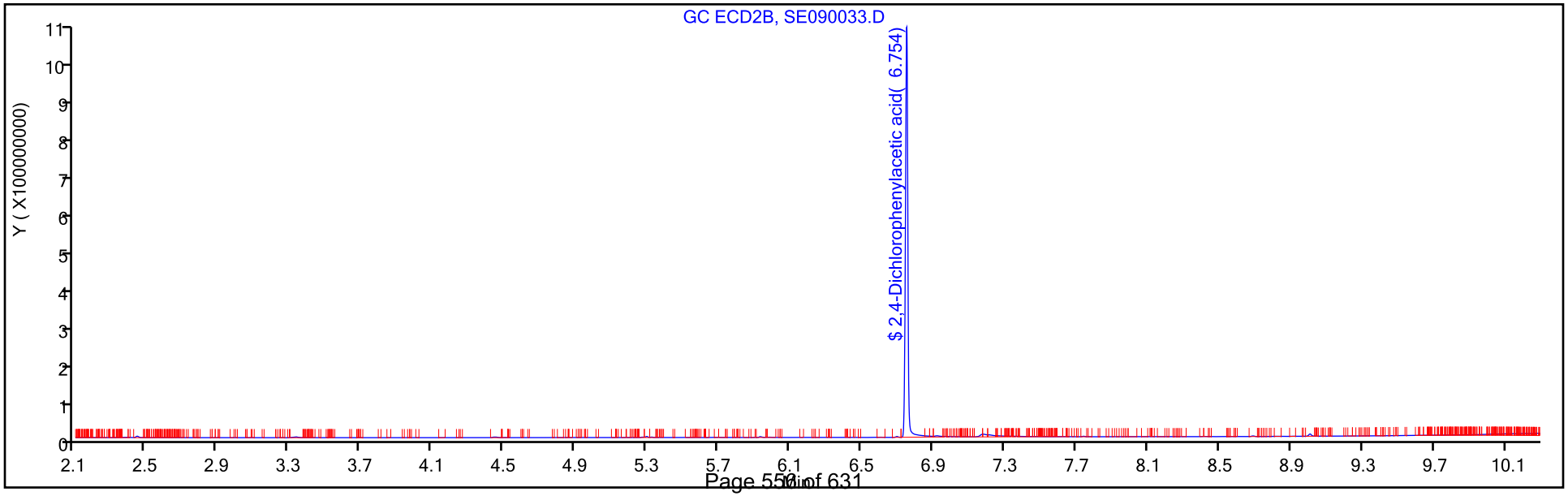
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D

Injection Date:	10-May-2018 03:29:06	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	10-May-2018 03:29:06	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-033				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:01:17		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8660	86.25

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7765	77.34

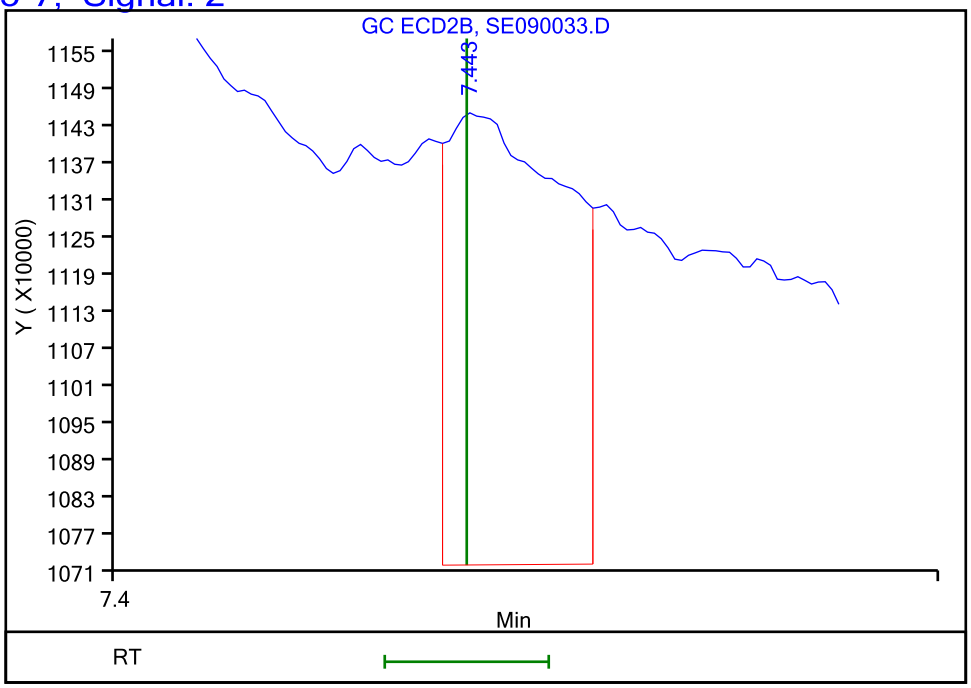
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090033.D
Injection Date: 10-May-2018 03:29:06 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

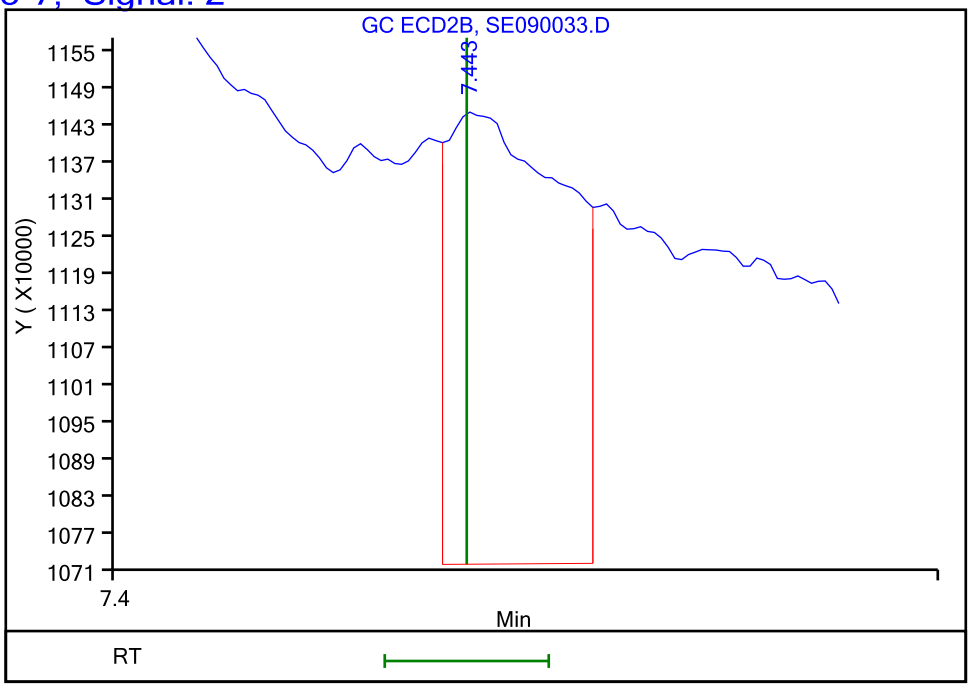
RT: 7.44
Response: 722485
Amount: 0.000495



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.44
Response: 722485
Amount: 0.000495



Reviewer: kellarj, 10-May-2018 11:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523317/48

Matrix: Solid | Lab File ID: SE090048.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/10/2018 08:23

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U M	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	92		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 10-May-2018 08:23:16 ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-048
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:23:50 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:19:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	183245489	1.00	0.9281	
2	6.753	6.752	0.001	1034493052	1.00	0.8314	
						RPD = 10.99	
12 Pentachlorophenol							
1	7.593	7.594	-0.001	828577		0.000164	
2	7.636	7.637	-0.001	2385060		0.000141	
						RPD = 14.48	
13 Silvex (2,4,5-TP)							
1	7.691	7.692	-0.001	412392		0.000220	
2	7.773	7.774	-0.001	1507149		0.000225	
						RPD = 1.91	
14 Chloramben							
1	7.770	7.770	0.000	645994		0.000394	
2	8.080	8.081	-0.001	2563953		0.000474	
						RPD = 18.28	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

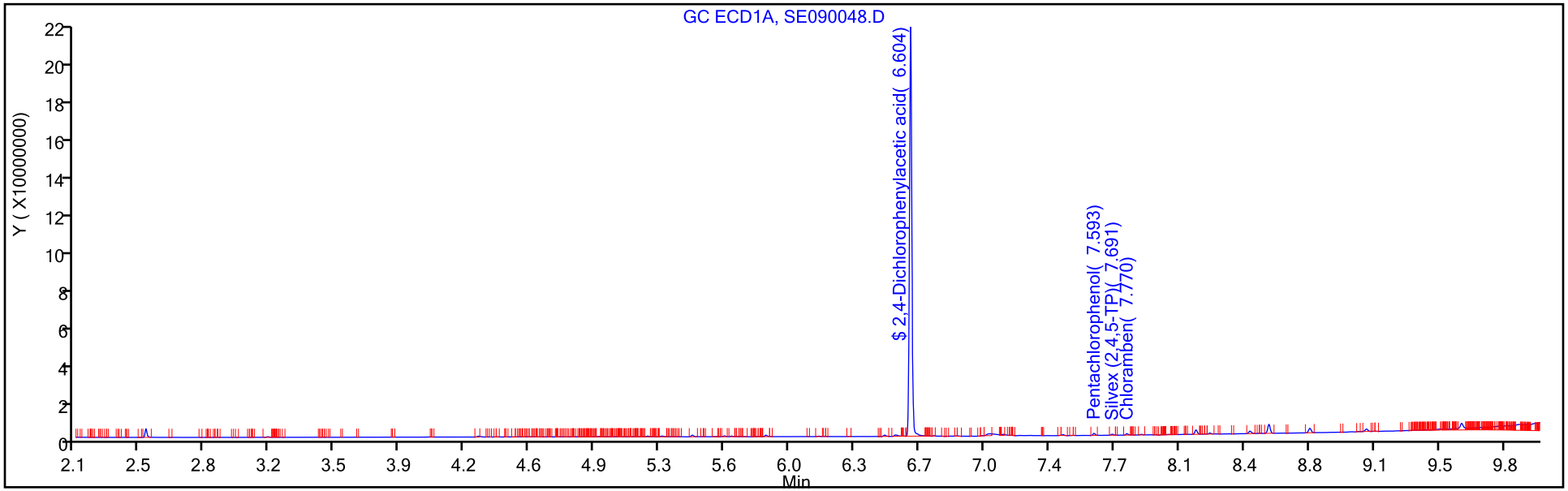
Report Date: 10-May-2018 11:23:59 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

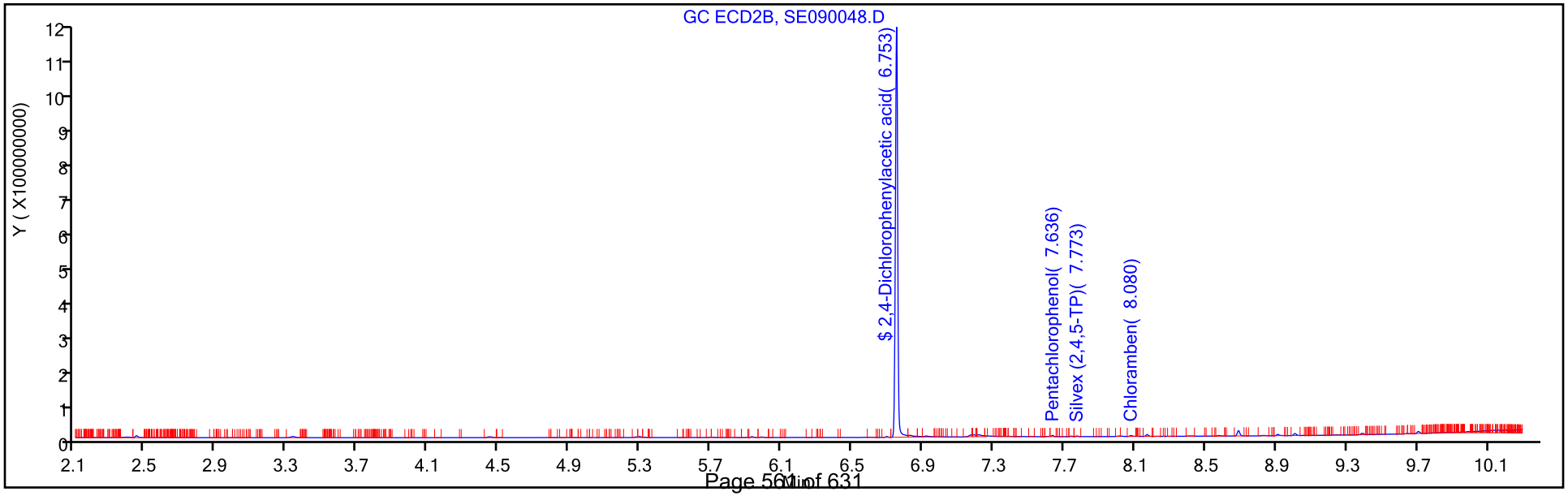
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D

Injection Date:	10-May-2018 08:23:16	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	48
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	10-May-2018 08:23:16	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-048				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:23:50	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:19:07		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.9281	92.44

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8314	82.81

User Disabled Compound Report

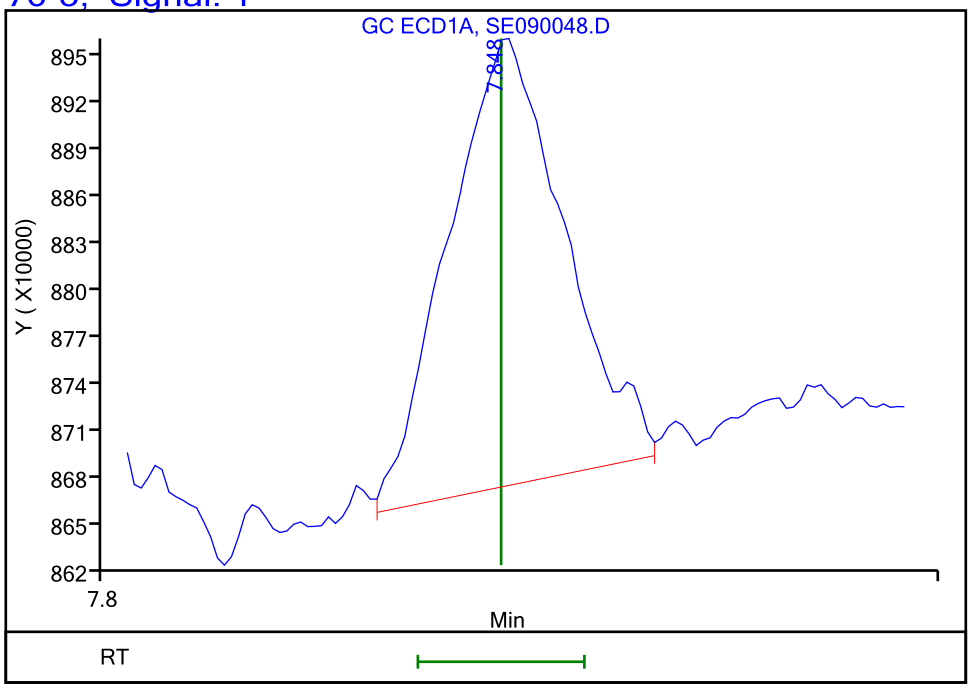
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D
Injection Date: 10-May-2018 08:23:16 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Detector GC ECD1A

15 2,4,5-T, CAS: 93-76-5, Signal: 1

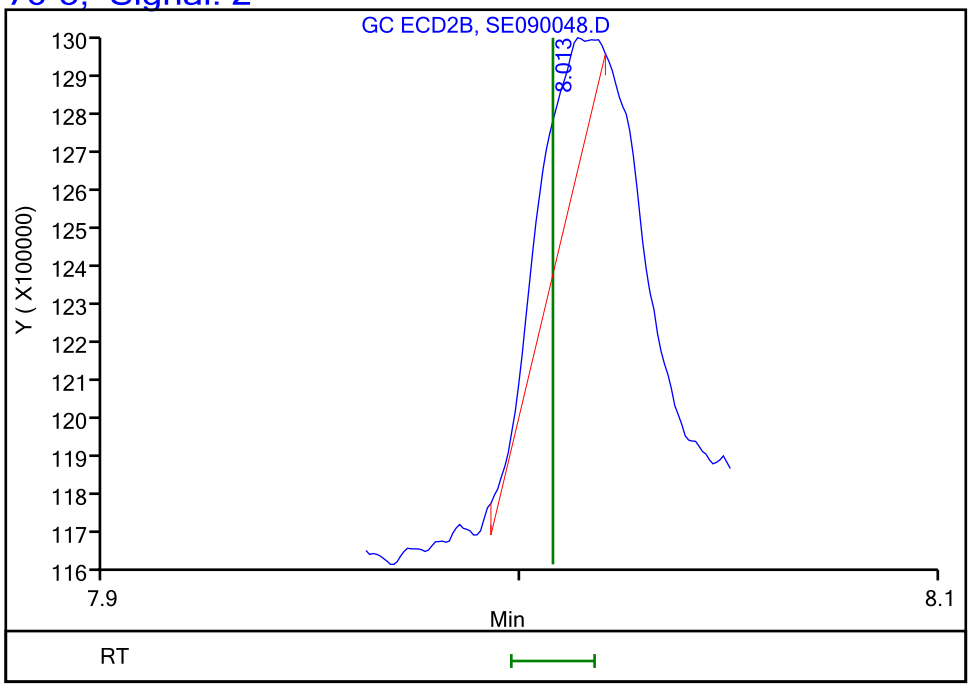
RT: 7.85
Response: 277360
Amount: 0.000149



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 8.01
Response: 365329
Amount: 0.000059



Reviewer: kellarj, 10-May-2018 11:19:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523317/48

Matrix: Solid | Lab File ID: SE090048.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/10/2018 08:23

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U M*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	83		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 10-May-2018 08:23:16 ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-048
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:23:50 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:19:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.604	6.604	0.000	183245489	1.00	0.9281	
2	6.753	6.752	0.001	1034493052	1.00	0.8314	
						RPD = 10.99	
12 Pentachlorophenol							
1	7.593	7.594	-0.001	828577		0.000164	
2	7.636	7.637	-0.001	2385060		0.000141	
						RPD = 14.48	
13 Silvex (2,4,5-TP)							
1	7.691	7.692	-0.001	412392		0.000220	
2	7.773	7.774	-0.001	1507149		0.000225	
						RPD = 1.91	
14 Chloramben							
1	7.770	7.770	0.000	645994		0.000394	
2	8.080	8.081	-0.001	2563953		0.000474	
						RPD = 18.28	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

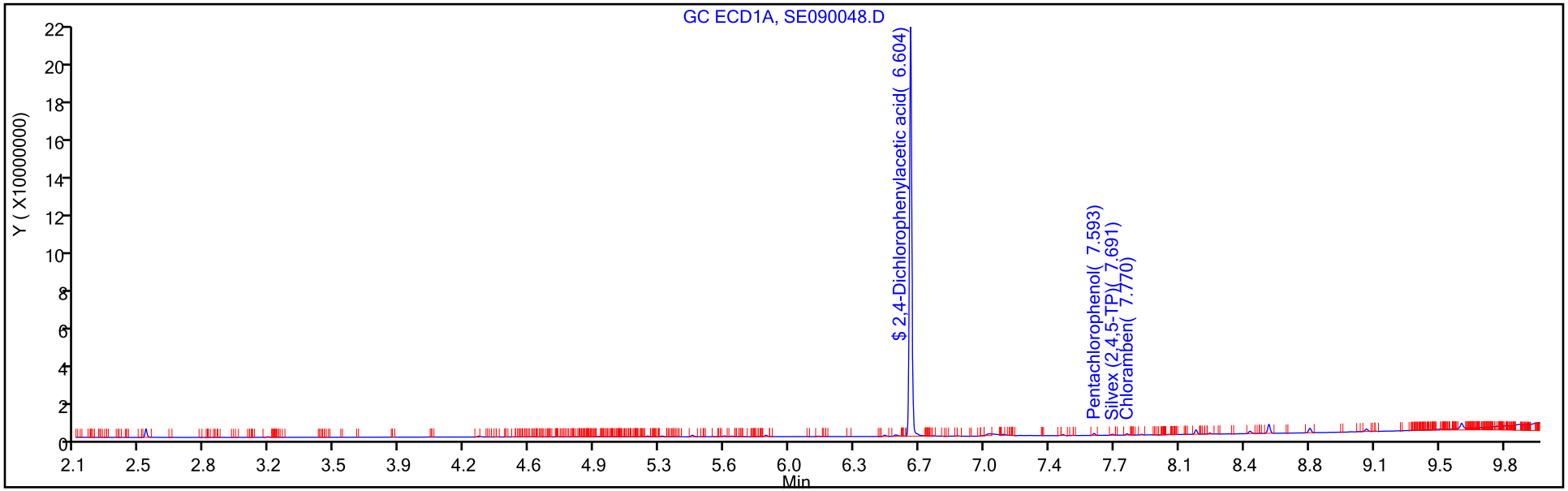
Report Date: 10-May-2018 11:24:00 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

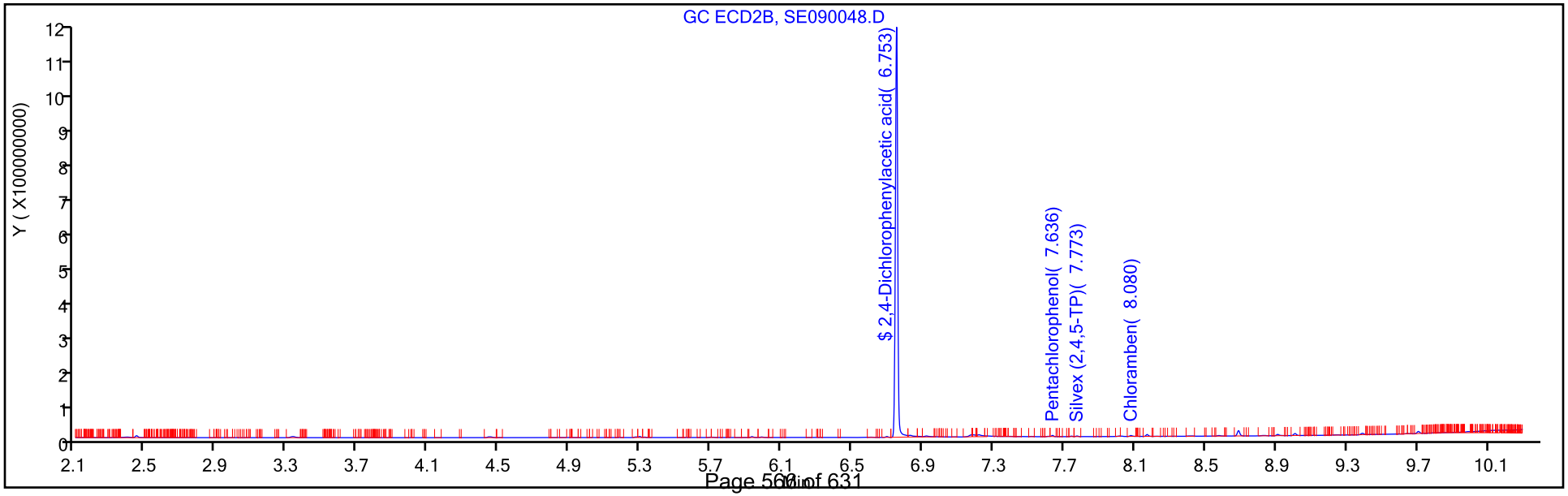
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D

Injection Date:	10-May-2018 08:23:16	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	48
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	10-May-2018 08:23:16	ALS Bottle#:	48	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-048				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:23:50	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:19:07		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.9281	92.44

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8314	82.81

User Disabled Compound Report

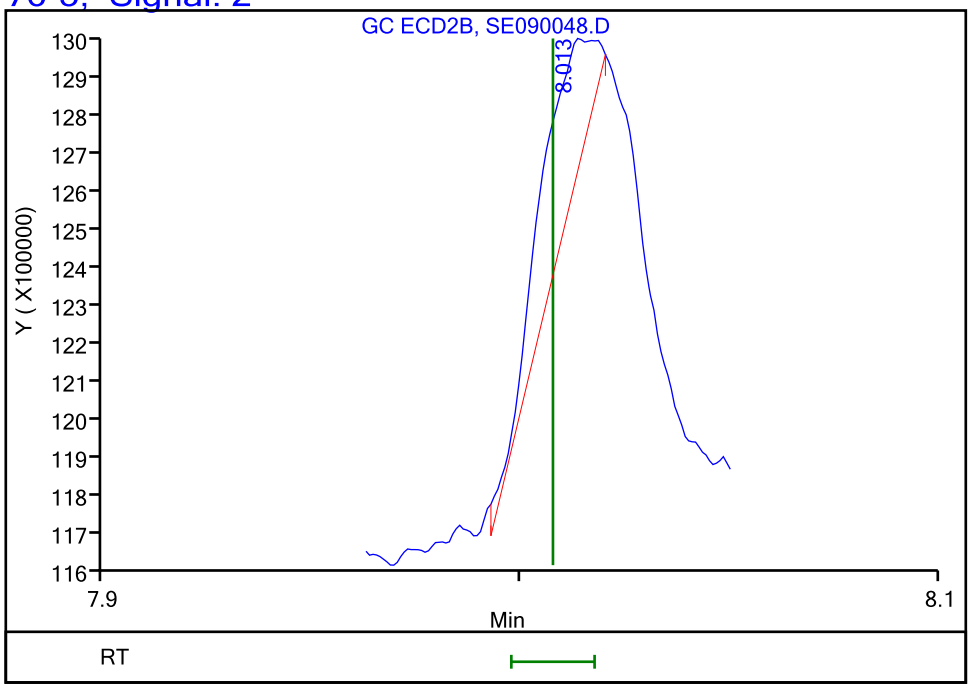
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090048.D
Injection Date: 10-May-2018 08:23:16 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 48 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

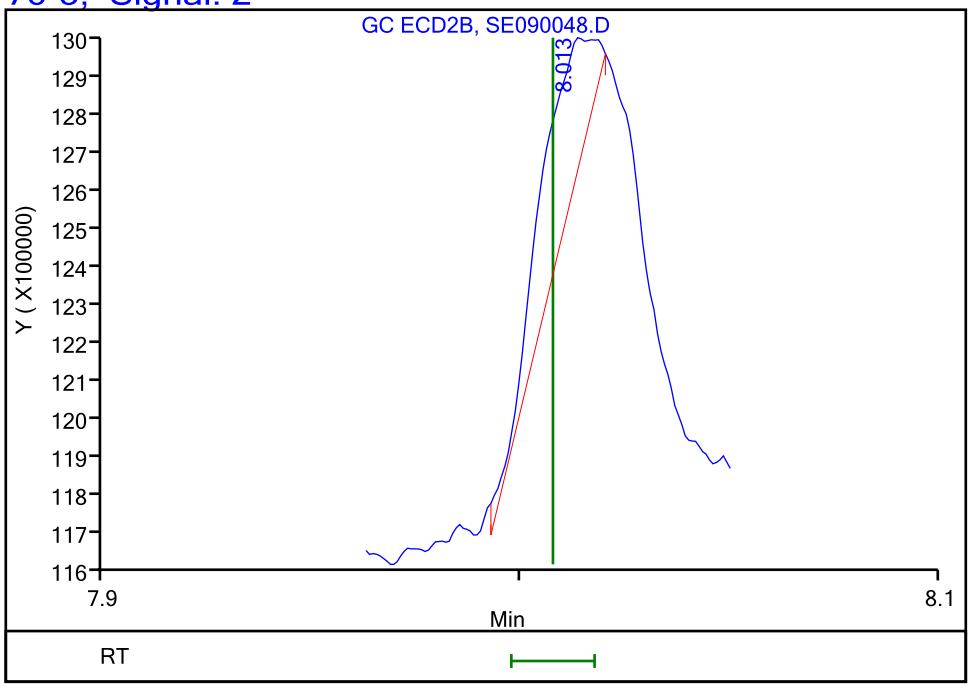
RT: 8.01
Response: 365329
Amount: 0.000059



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 8.01
Response: 365329
Amount: 0.000059



Reviewer: kellarj, 10-May-2018 11:19:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523572/31

Matrix: Solid | Lab File ID: SE110031.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/11/2018 20:36

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523572 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	92		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110031.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 11-May-2018 20:36:53 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-031
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:14 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:43:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	158609882	1.00	0.9225	
2	6.721	6.720	0.001	883962620	1.00	0.7738	
						RPD = 17.54	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

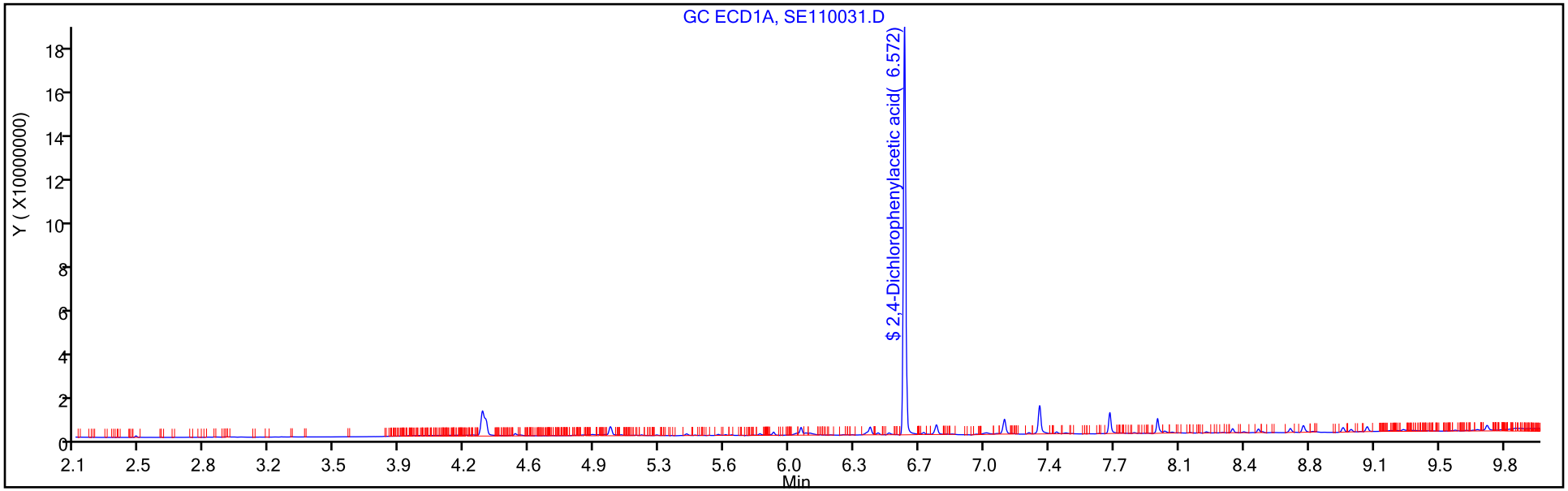
Report Date: 12-May-2018 10:47:24 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

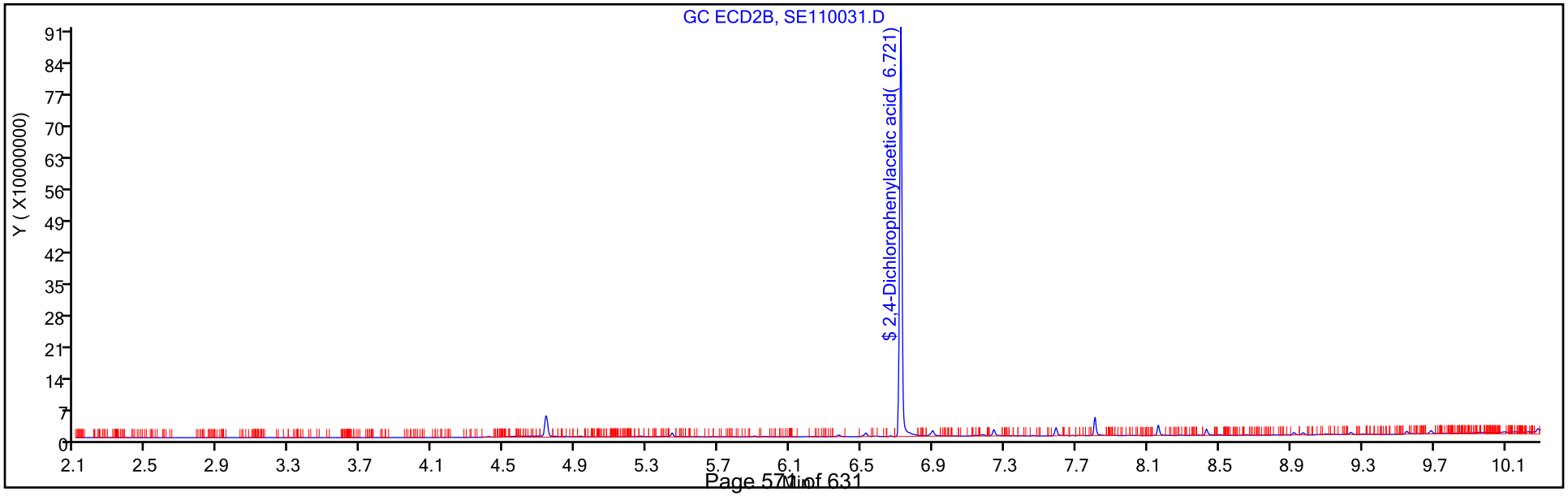
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110031.D

Injection Date:	11-May-2018 20:36:53	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110031.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	11-May-2018 20:36:53	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047291-031				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	12-May-2018 10:47:14	Calib Date:	11-May-2018 14:04:11		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK052				
First Level Reviewer: kellarj		Date:	12-May-2018 10:43:40		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.9225	91.89

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7738	77.07

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523572/31

Matrix: Solid | Lab File ID: SE110031.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/11/2018 20:36

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523572 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	77		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110031.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 11-May-2018 20:36:53 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-031
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:14 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:43:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	158609882	1.00	0.9225	
2	6.721	6.720	0.001	883962620	1.00	0.7738	
						RPD = 17.54	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

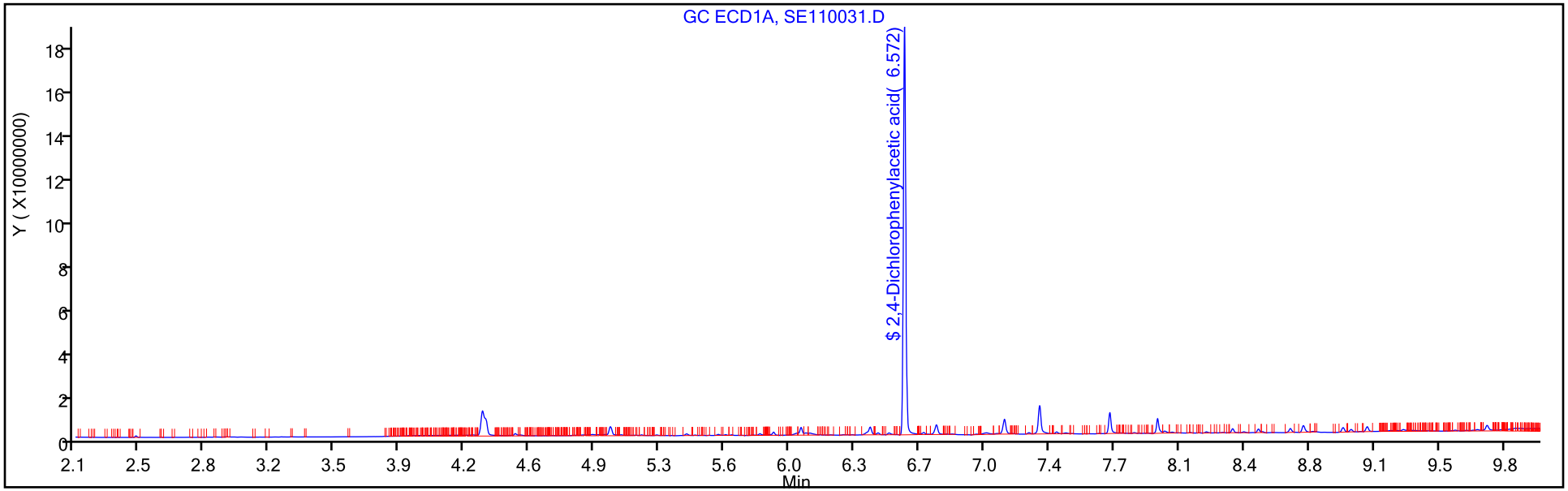
Report Date: 12-May-2018 10:47:25 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

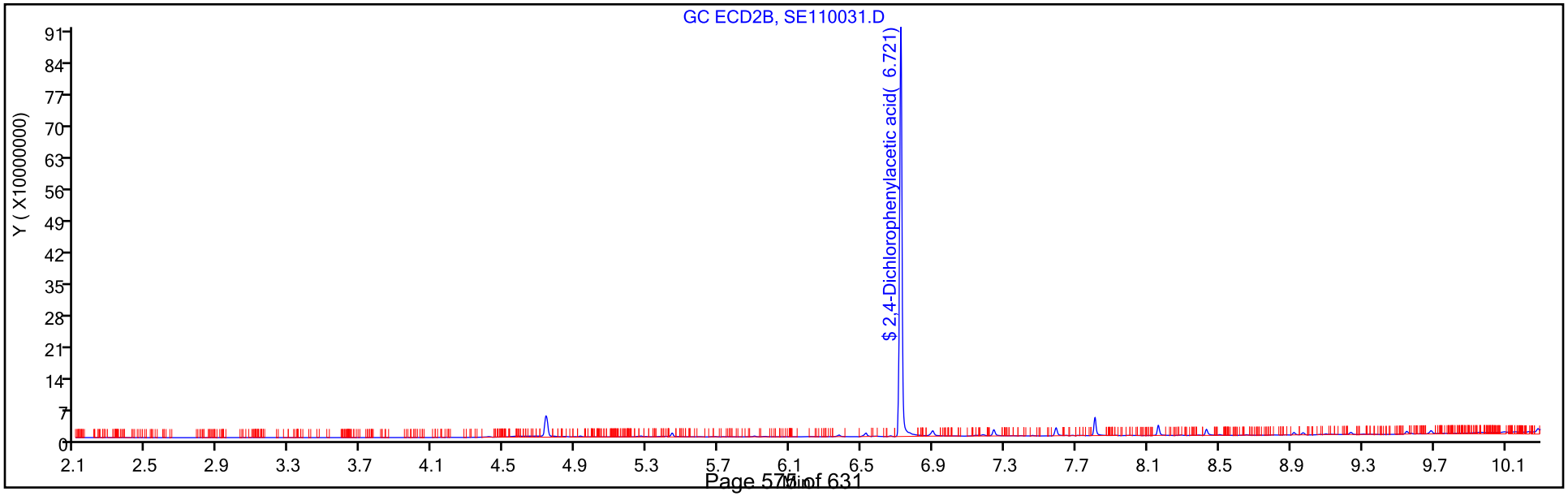
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110031.D

Injection Date:	11-May-2018 20:36:53	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110031.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	11-May-2018 20:36:53	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047291-031				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	12-May-2018 10:47:14	Calib Date:	11-May-2018 14:04:11		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK052				
First Level Reviewer: kellarj		Date:	12-May-2018 10:43:40		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.9225	91.89

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7738	77.07

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523572/50

Matrix: Solid | Lab File ID: SE110050.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/12/2018 02:49

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523572 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U M	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	87		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 12-May-2018 02:49:09 ALS Bottle#: 50 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-050
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:32 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:44:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	150326217	1.00	0.8744	
2	6.721	6.720	0.001	827674081	1.00	0.7245	
						RPD = 18.74	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

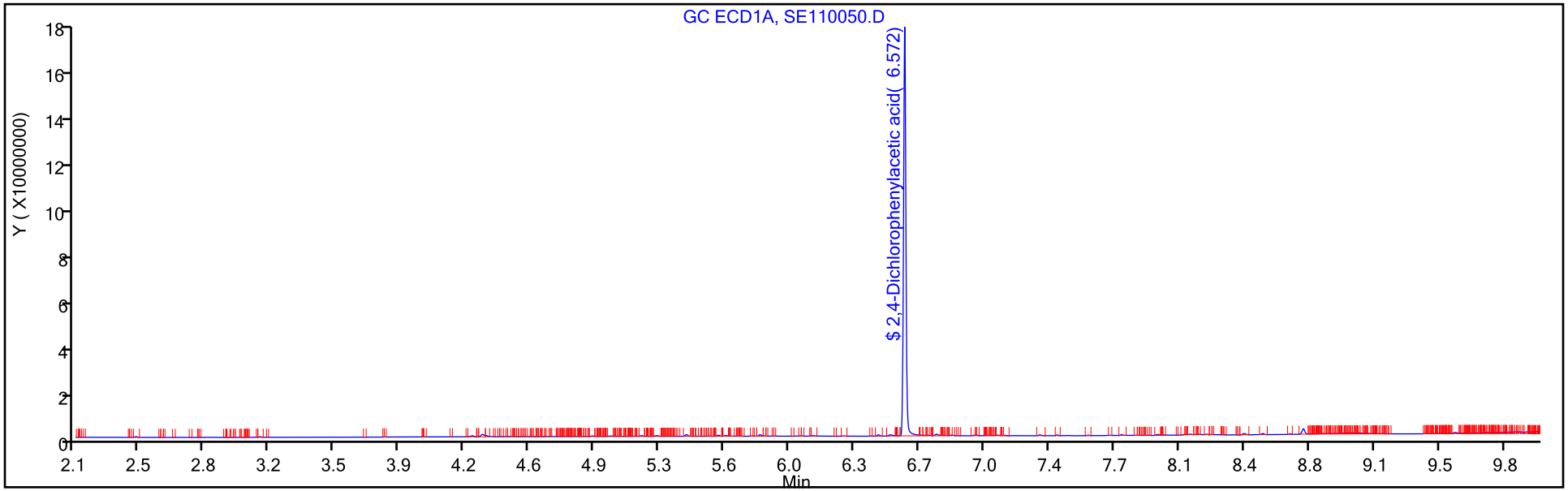
Report Date: 12-May-2018 10:47:46 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

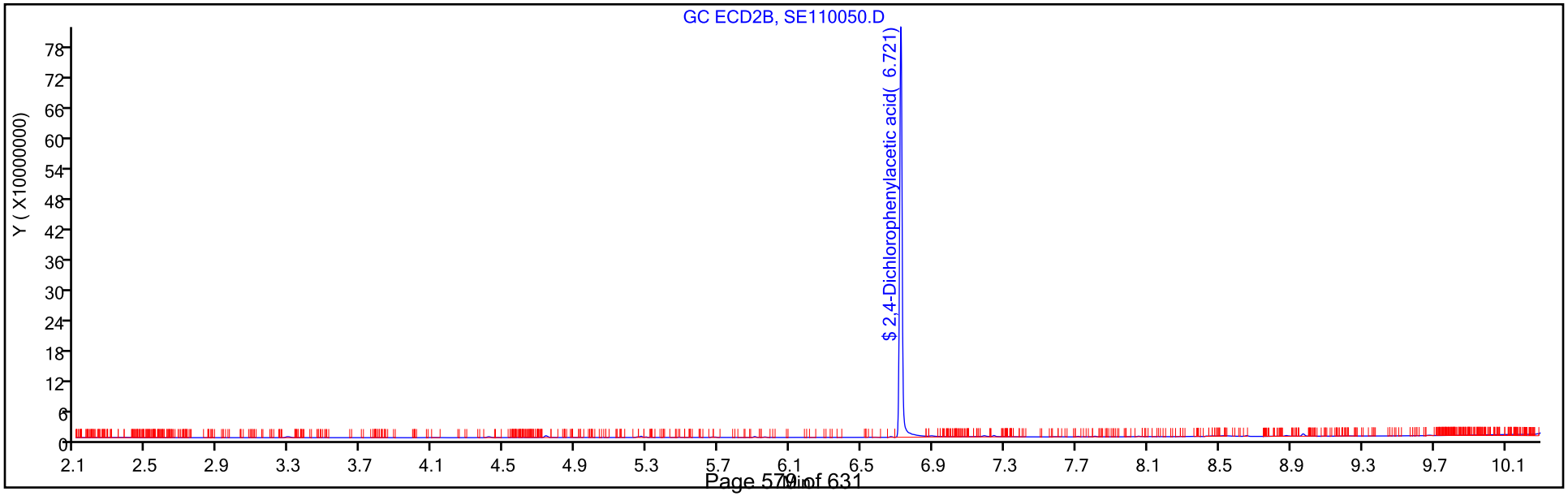
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D

Injection Date:	12-May-2018 02:49:09	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	50
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	12-May-2018 02:49:09	ALS Bottle#:	50	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047291-050				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	12-May-2018 10:47:32	Calib Date:	11-May-2018 14:04:11		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK052				
First Level Reviewer: kellarj		Date:	12-May-2018 10:44:44		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8744	87.09

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7245	72.16

User Disabled Compound Report

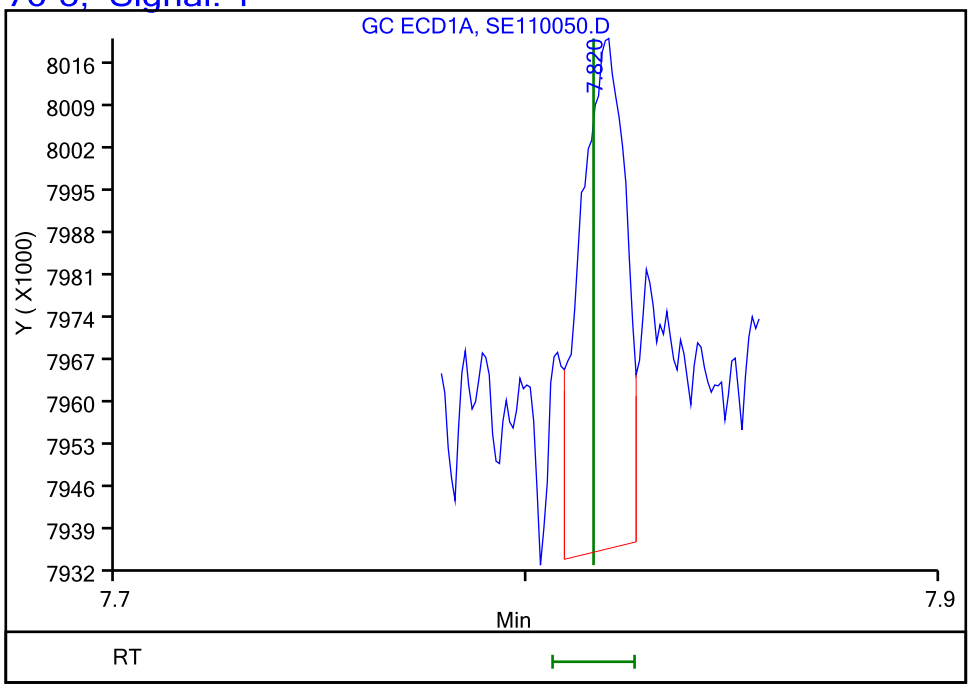
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D
Injection Date: 12-May-2018 02:49:09 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 50 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Detector GC ECD1A

15 2,4,5-T, CAS: 93-76-5, Signal: 1

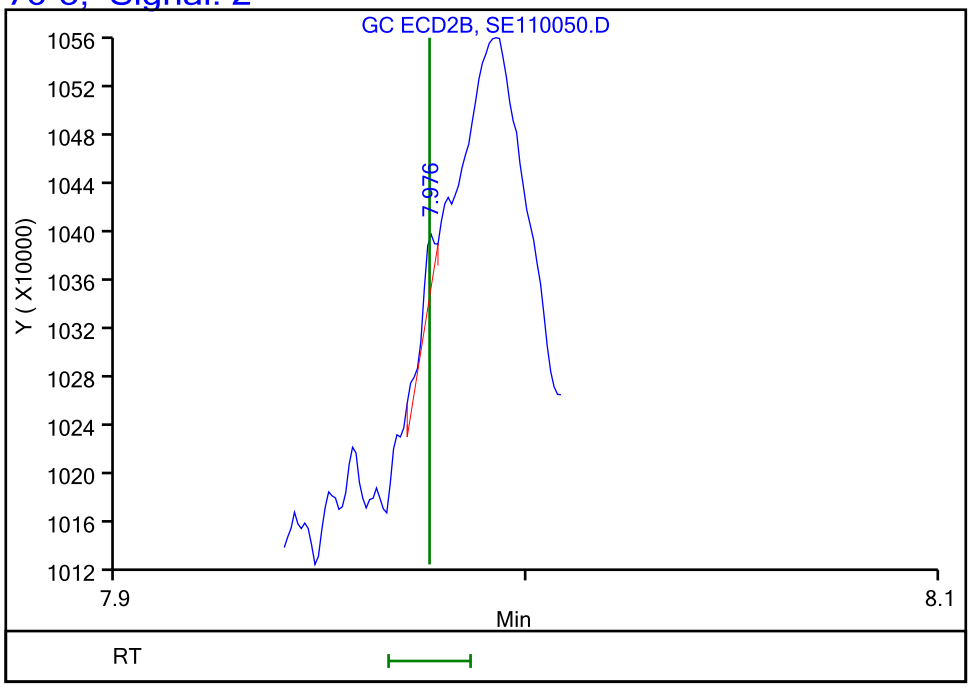
RT: 7.82
Response: 63867
Amount: 0.000041



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 7.98
Response: 10448
Amount: 0.000002



Reviewer: kellarj, 12-May-2018 10:44:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523572/50

Matrix: Solid | Lab File ID: SE110050.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/12/2018 02:49

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523572 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U M*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	72		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 12-May-2018 02:49:09 ALS Bottle#: 50 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047291-050
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 10:47:32 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 10:44:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	150326217	1.00	0.8744	
2	6.721	6.720	0.001	827674081	1.00	0.7245	
						RPD = 18.74	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

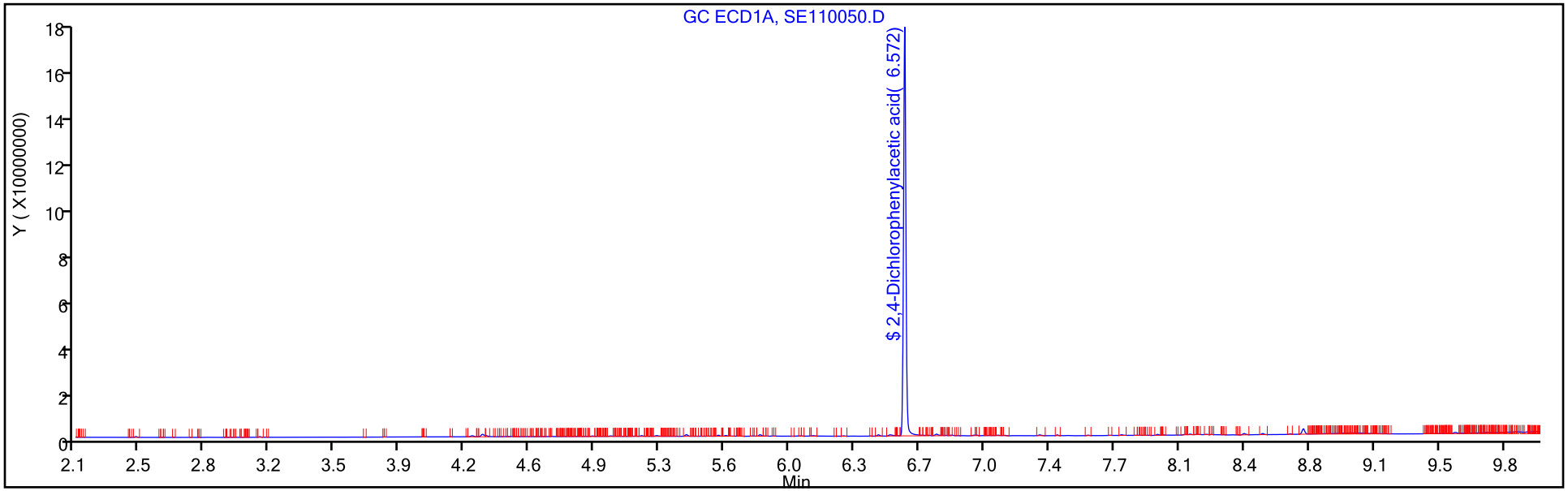
Report Date: 12-May-2018 10:47:47 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

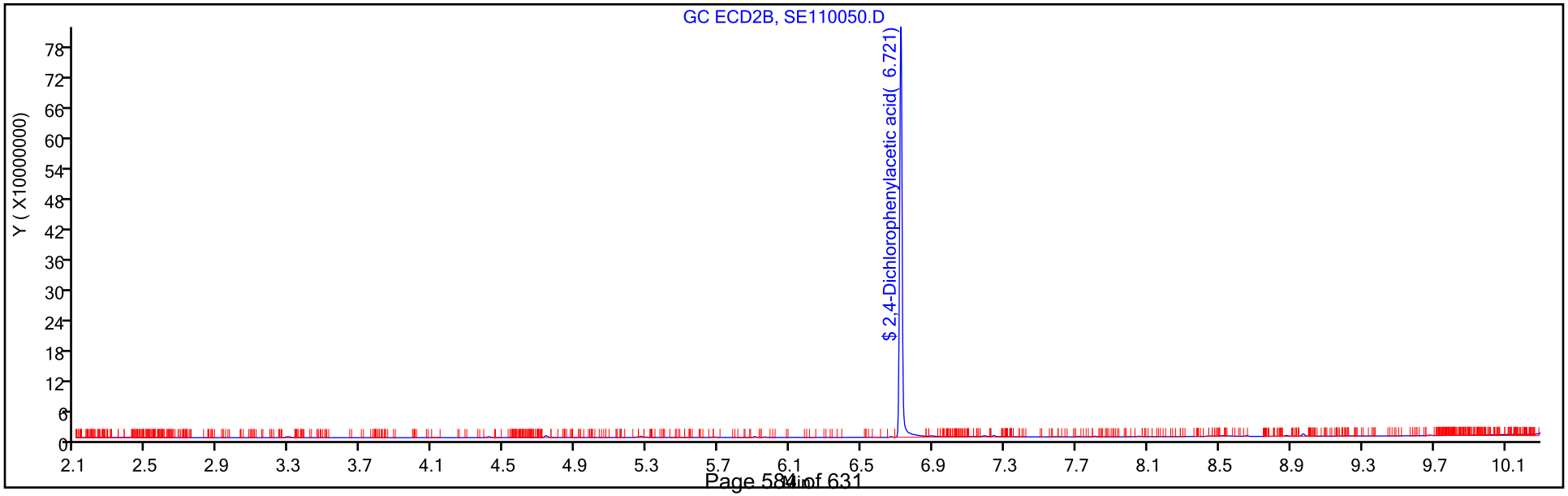
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D

Injection Date:	12-May-2018 02:49:09	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	50
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	12-May-2018 02:49:09	ALS Bottle#:	50	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047291-050				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	12-May-2018 10:47:32	Calib Date:	11-May-2018 14:04:11		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK052				
First Level Reviewer: kellarj		Date:	12-May-2018 10:44:44		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8744	87.09

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7245	72.16

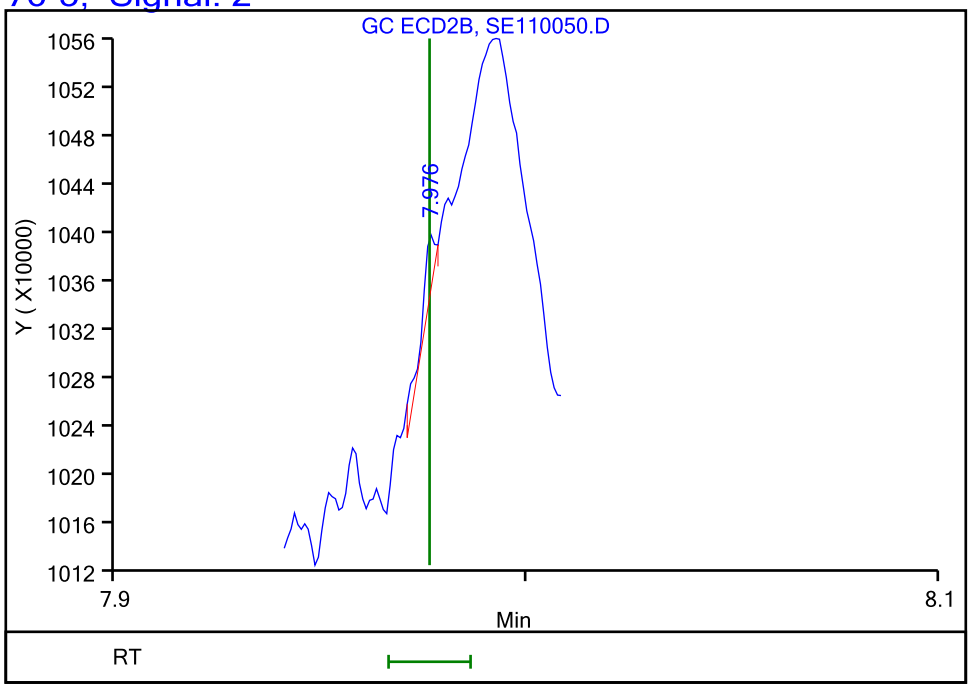
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110050.D
Injection Date: 12-May-2018 02:49:09 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 50 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

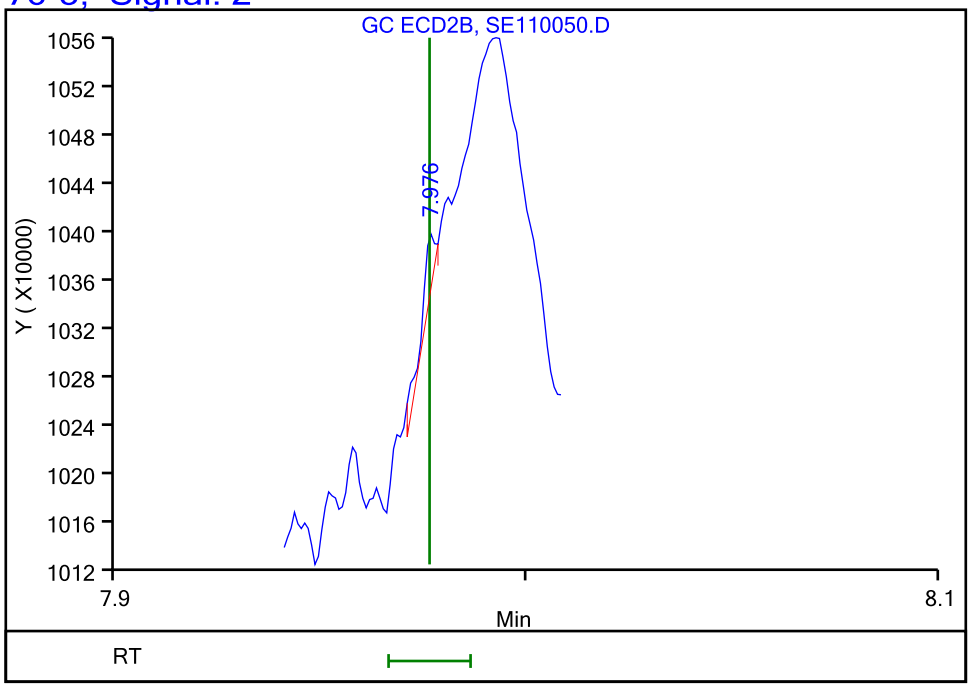
RT: 7.98
Response: 10448
Amount: 0.000002



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 7.98
Response: 10448
Amount: 0.000002



Reviewer: kellarj, 12-May-2018 10:44:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 680-522658/5-A

Matrix: Solid | Lab File ID: SE090035.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.86(g) | Date Analyzed: 05/10/2018 04:08

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	9.28		8.1	4.2	2.2
94-75-7	2,4-D	46.3		8.1	8.1	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	77		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090035.D
Lims ID: LCS 680-522658/5-A
Client ID:
Sample Type: LCS
Inject. Date: 10-May-2018 04:08:12 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-035
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:19:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.489	2.491	-0.002	95195552	0.2000	0.1956	
2	2.543	2.540	0.003	157970796	0.2000	0.1121	
						RPD = 54.29	
2 2,6-Dichlorophenol							
1	4.943	4.943	0.000	25006380	NC	NC	
2	5.029	5.028	0.001	81458007	NC	NC	
						RPD = 0.00	
3 2,4,6-Trichlorophenol							
1	5.710	5.710	0.000	154347310	NC	NC	
2	5.701	5.700	0.001	632002193	NC	NC	
						RPD = 0.00	
4 3,5-Dichlorobenzoic acid							
1	6.046	6.047	-0.001	45533853	0.2000	0.1473	
2	6.040	6.040	0.000	223304763	0.2000	0.1381	
						RPD = 6.45	
5 4-Nitrophenol							
1	6.172	6.173	-0.001	23052184	0.2000	0.2315	
2	6.424	6.426	-0.002	72127248	0.2000	0.2319	
						RPD = 0.14	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.603	6.604	-0.001	29956889	0.2000	0.1517	
2	6.751	6.752	-0.001	190400028	0.2000	0.1530	
						RPD = 0.85	
7 Dicamba							
1	6.641	6.642	-0.001	67110975	0.1000	0.0681	
2	6.833	6.833	0.000	327953387	0.1000	0.0740	
						RPD = 8.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.788	6.789	-0.001	4469288	20.0	6.89	
2	6.880	6.880	0.000	39617670	20.0	9.71	
						RPD = 33.97	
9 MCPA							
1	6.915	6.916	-0.001	8452798	20.0	9.85	
2	7.078	7.078	0.000	78319428	20.0	9.52	
						RPD = 3.45	
10 Dichlorprop							
1	7.101	7.102	-0.001	27208279	0.2000	0.1062	
2	7.223	7.223	0.000	130558570	0.2000	0.1067	
						RPD = 0.41	
11 2,4-D							
1	7.244	7.246	-0.002	46348790	0.2000	0.1469	
2	7.442	7.443	-0.001	208771697	0.2000	0.1430	
						RPD = 2.65	
12 Pentachlorophenol							
1	7.593	7.594	-0.001	167756624	0.0500	0.0331	
2	7.638	7.637	0.001	616124080	0.0500	0.0365	
						RPD = 9.85	
13 Silvex (2,4,5-TP)							
1	7.691	7.692	-0.001	52451276	0.0500	0.0280	
2	7.773	7.774	-0.001	183364332	0.0500	0.0273	
						RPD = 2.53	
14 Chloramben							
1	7.770	7.770	0.000	10630870	0.2000	0.006488	
2	8.080	8.081	-0.001	23209912	0.2000	0.004287	
						RPD = 40.85	
15 2,4,5-T							
1	7.845	7.848	-0.003	65563862	0.0500	0.0352	
2	8.006	8.008	-0.002	178449634	0.0500	0.0286	
						RPD = 20.47	
16 2,4-DB							
1	8.090	8.091	-0.001	4415941	0.2000	0.0251	
2	8.221	8.222	-0.001	30000097	0.2000	0.0342	
						RPD = 30.78	
17 Dinoseb							
1	8.143	8.144	-0.001	129091736	0.2000	0.1167	
2	8.173	8.173	0.000	432580055	0.2000	0.1319	
						RPD = 12.24	
18 Bentazon							
1	8.217	8.218	-0.001	37648092	0.2000	0.1463	
2	8.578	8.578	0.000	116415795	0.2000	0.1564	
						RPD = 6.66	
19 Picloram							
1	8.433	8.433	0.000	385881229	0.2000	0.1446	
2	8.913	8.913	0.000	1252057726	0.2000	0.1511	
						RPD = 4.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.537	8.537	0.000	435512011	0.2000	0.1535	
2	8.693	8.692	0.001	1347564897	0.2000	0.1513	
						RPD = 1.45	
21 Acifluorfen							
1	9.576	9.577	-0.001	342672562	0.2000	0.1684	
2	9.711	9.710	0.001	1018178386	0.2000	0.1486	
						RPD = 12.50	

QC Flag Legend

Processing Flags

NC - Not Calibrated

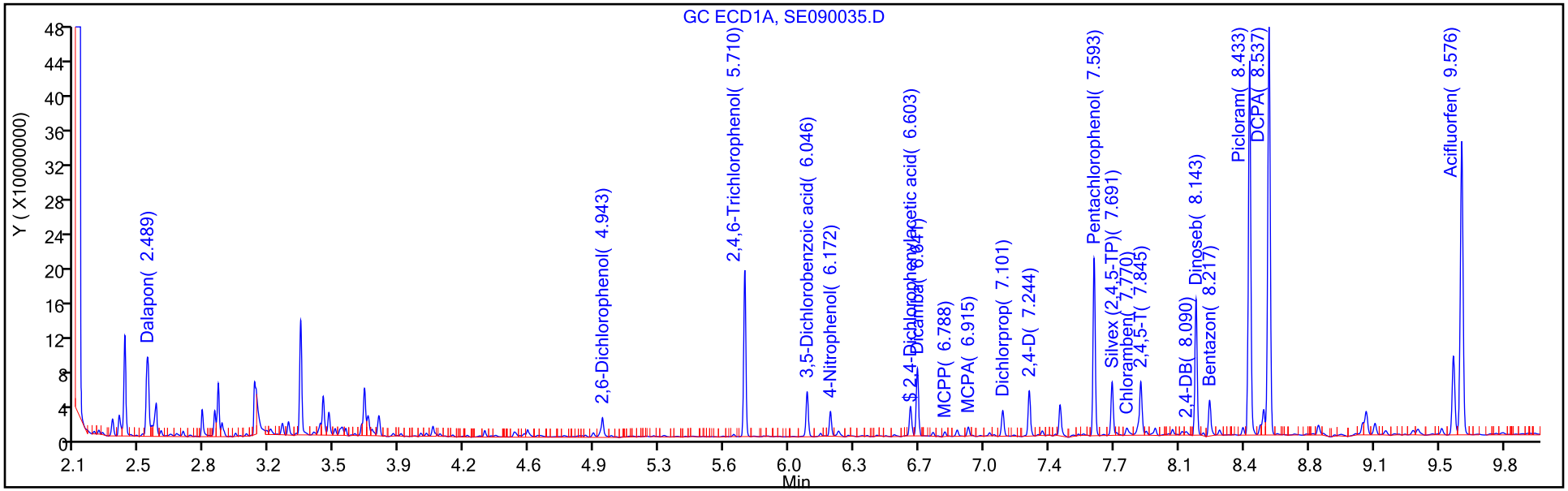
Report Date: 10-May-2018 11:24:56 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

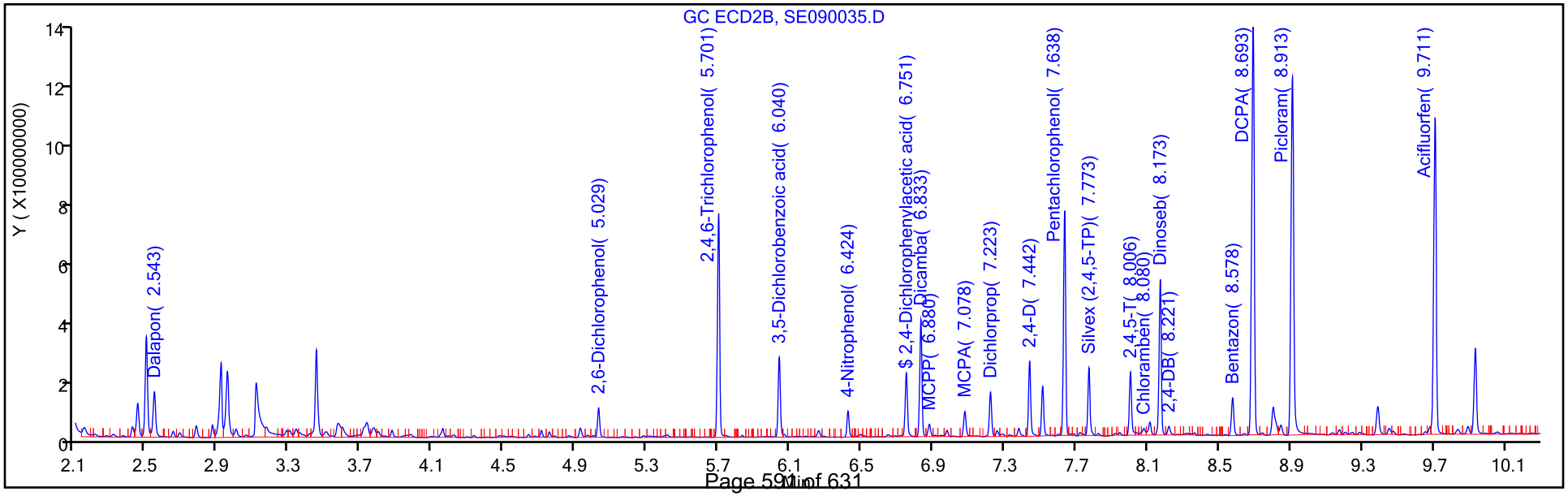
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090035.D

Injection Date:	10-May-2018 04:08:12	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	LCS 680-522658/5-A			Worklist Smp#:	35
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090035.D				
Lims ID:	LCS 680-522658/5-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	10-May-2018 04:08:12	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-035				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:19:43		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1517	75.86

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1530	76.51

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MS | Lab Sample ID: 680-151865-3 MS

Matrix: Solid | Lab File ID: SE090039.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:30

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.06(g) | Date Analyzed: 05/10/2018 05:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	9.26	M J1	8.4	4.3	2.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	45	M	27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090039.D
Lims ID: 680-151865-A-3-B MS
Client ID: GQ003
Sample Type: MS
Inject. Date: 10-May-2018 05:26:50 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-039
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:21:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.605	6.604	0.001	14679646	0.2000	0.0744	M
2	6.750	6.752	-0.002	112509248	0.2000	0.0904	M
						RPD = 19.51	
11 2,4-D							M
1	7.244	7.246	-0.002	47517155	0.2000	0.1506	M
2	7.440	7.443	-0.003	164708418	0.2000	0.1128	M
						RPD = 28.65	
15 2,4,5-T							M
1	7.845	7.848	-0.003	47524263	0.0500	0.0255	M
2	8.005	8.008	-0.003	171468570	0.0500	0.0275	M
						RPD = 7.65	

QC Flag Legend

Review Flags
M - Manually Integrated

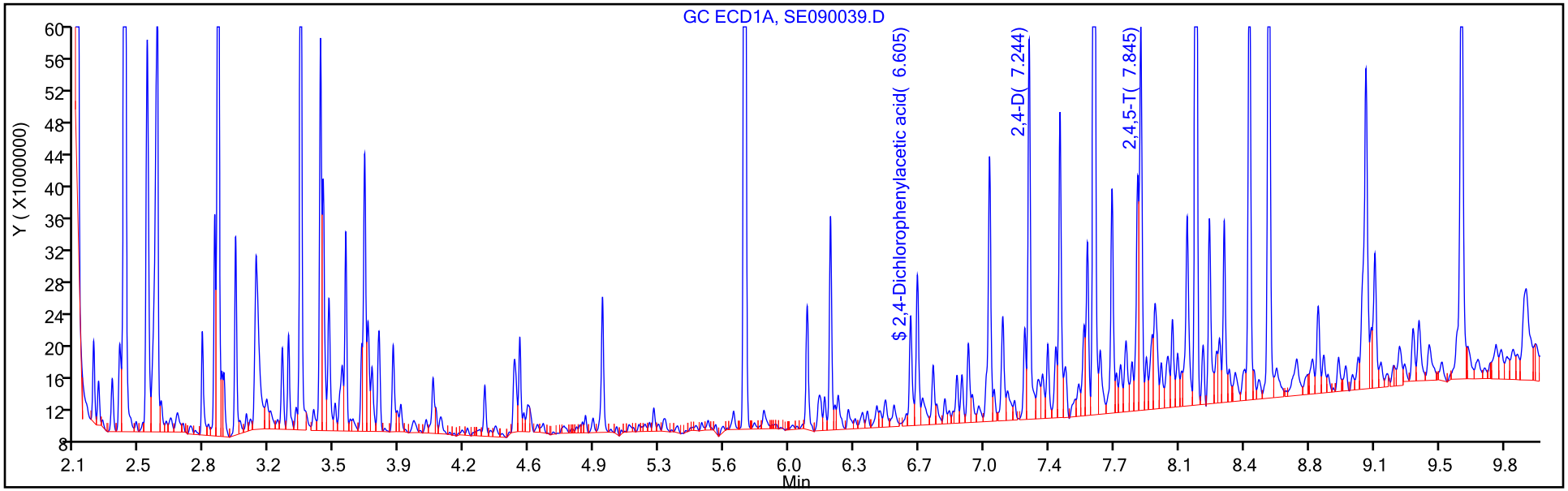
Report Date: 10-May-2018 11:24:46 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

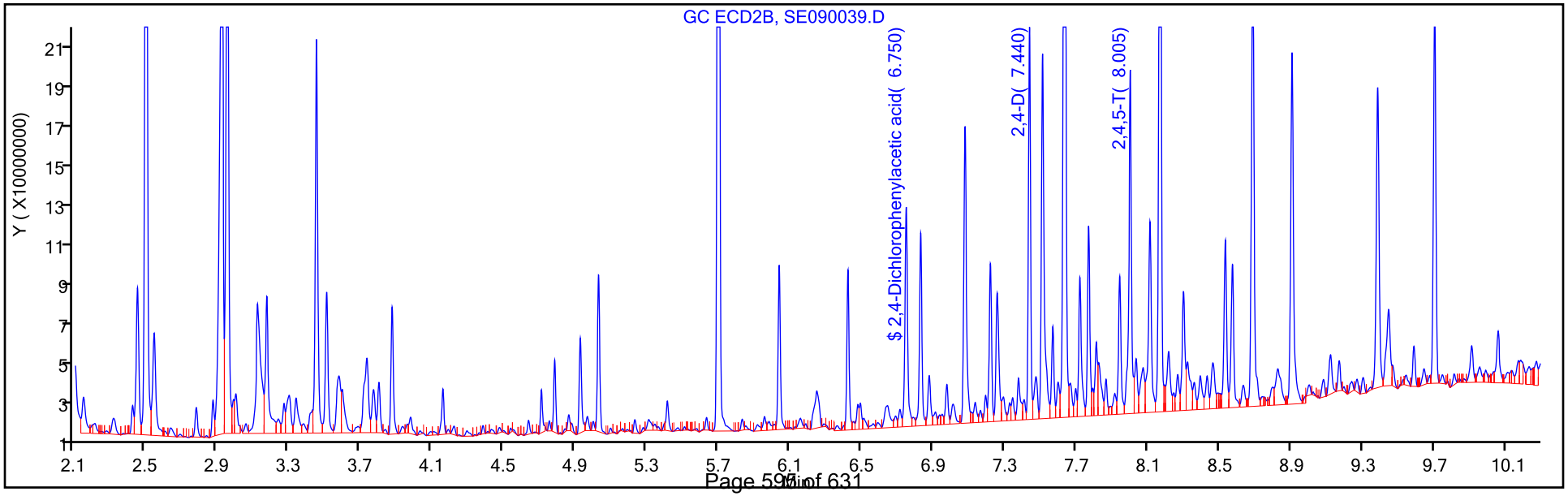
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090039.D

Injection Date:	10-May-2018 05:26:50	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-3-B MS			Worklist Smp#:	39
Client ID:	GQ003				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090039.D				
Lims ID:	680-151865-A-3-B MS				
Client ID:	GQ003				
Sample Type:	MS				
Inject. Date:	10-May-2018 05:26:50	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:21:19		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0744	37.18

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0904	45.21

Manual Integration/User Assign Peak Report

TestAmerica Savannah

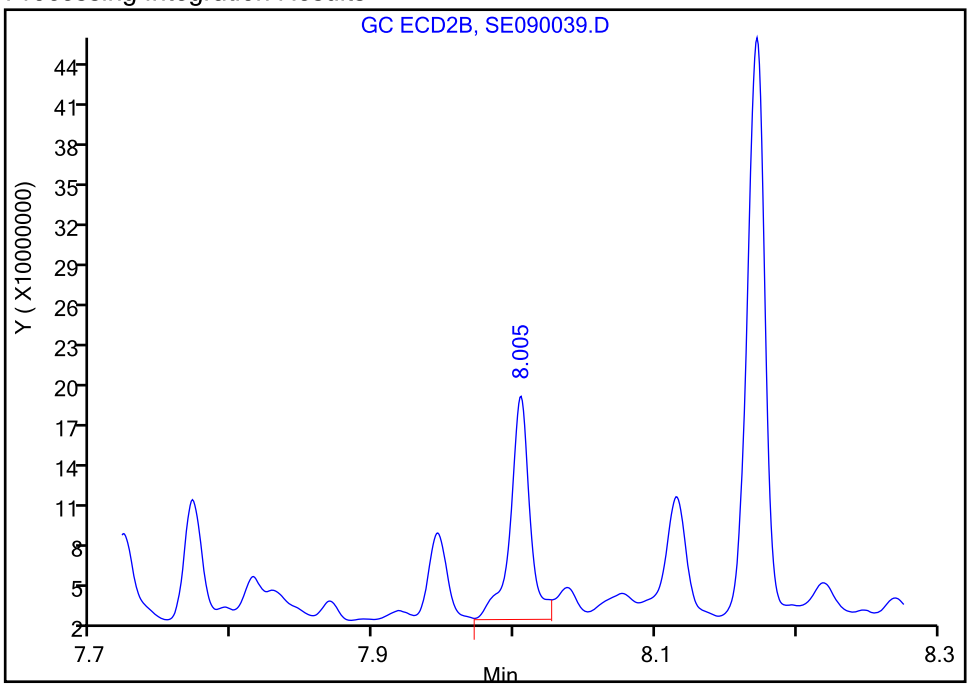
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090039.D				
Injection Date:	10-May-2018 05:26:50	Instrument ID:	CSGS		
Lims ID:	680-151865-A-3-B MS				
Client ID:	GQ003				
Operator ID:	GEM	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

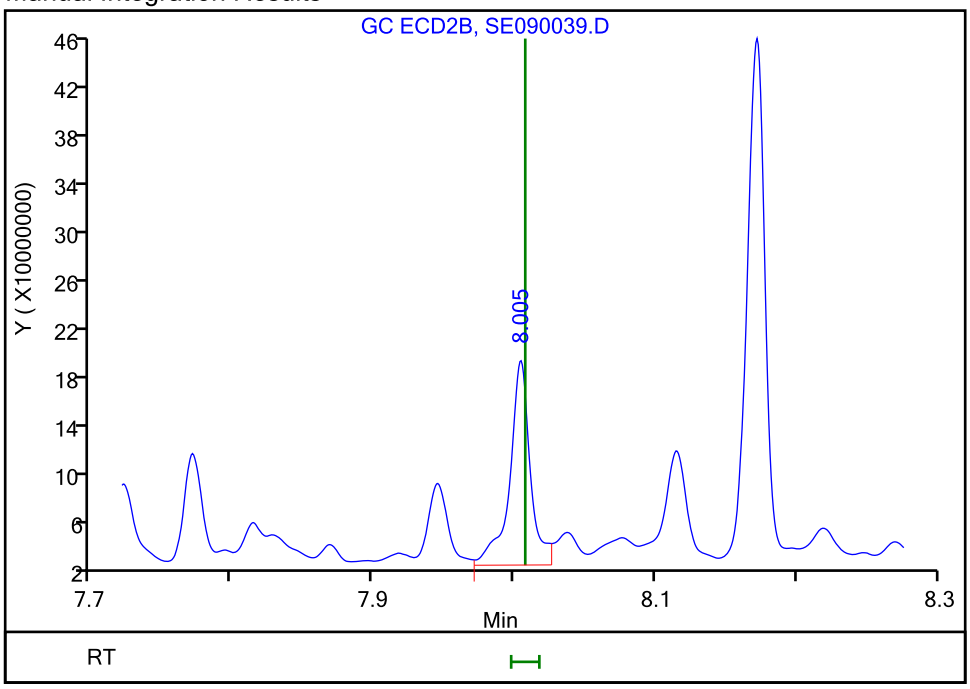
Processing Integration Results

RT: 8.00
Area: 160853777
Amount: 0.025813
Amount Units: ug/ml



Manual Integration Results

RT: 8.00
Area: 171468570
Amount: 0.027516
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 11:20:52

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

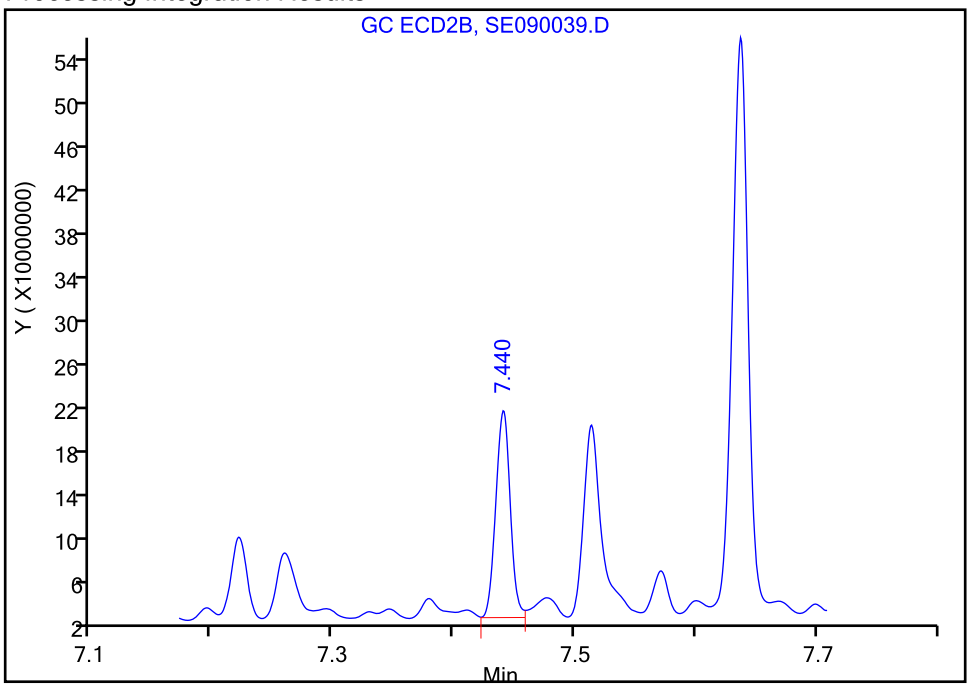
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090039.D				
Injection Date:	10-May-2018 05:26:50	Instrument ID:	CSGS		
Lims ID:	680-151865-A-3-B MS				
Client ID:	GQ003				
Operator ID:	GEM	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

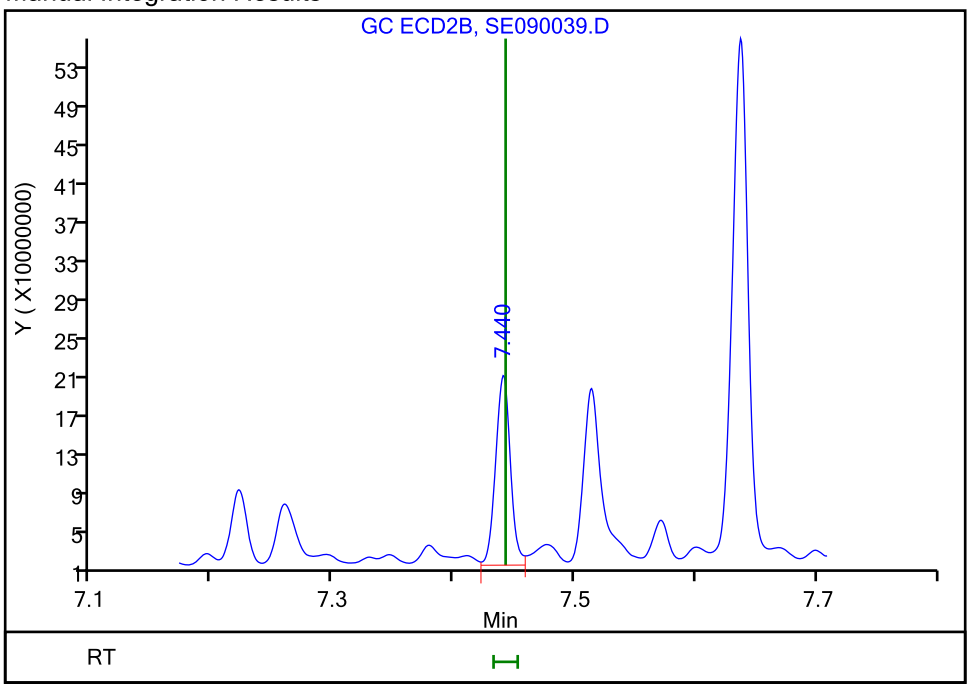
Processing Integration Results

RT: 7.44
Area: 158572581
Amount: 0.108625
Amount Units: ug/ml



Manual Integration Results

RT: 7.44
Area: 164708418
Amount: 0.112828
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 11:20:52

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

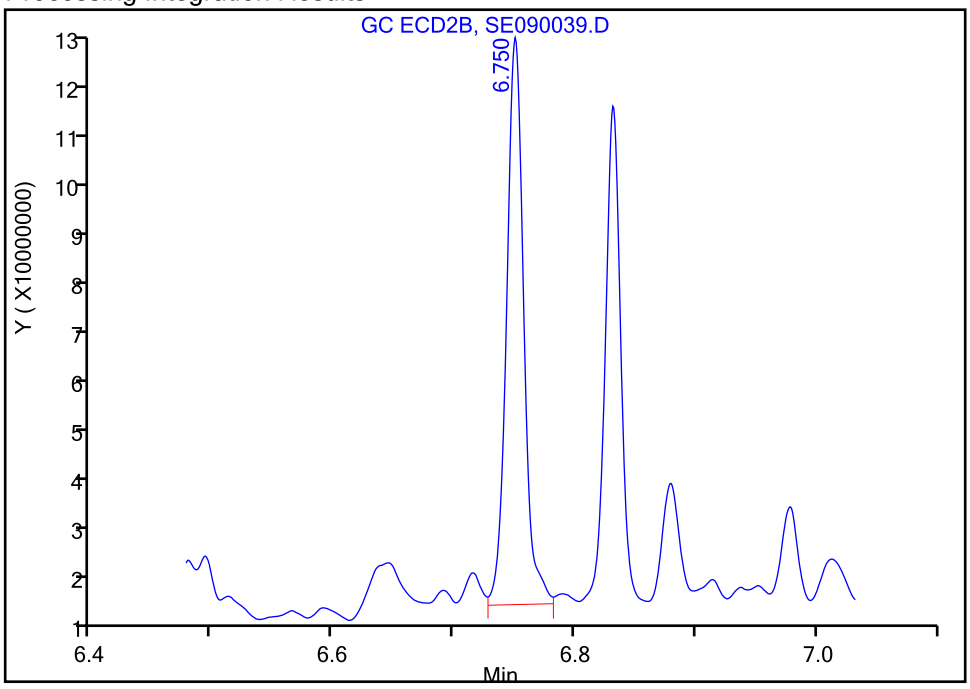
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090039.D				
Injection Date:	10-May-2018 05:26:50	Instrument ID:	CSGS		
Lims ID:	680-151865-A-3-B MS				
Client ID:	GQ003				
Operator ID:	GEM	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

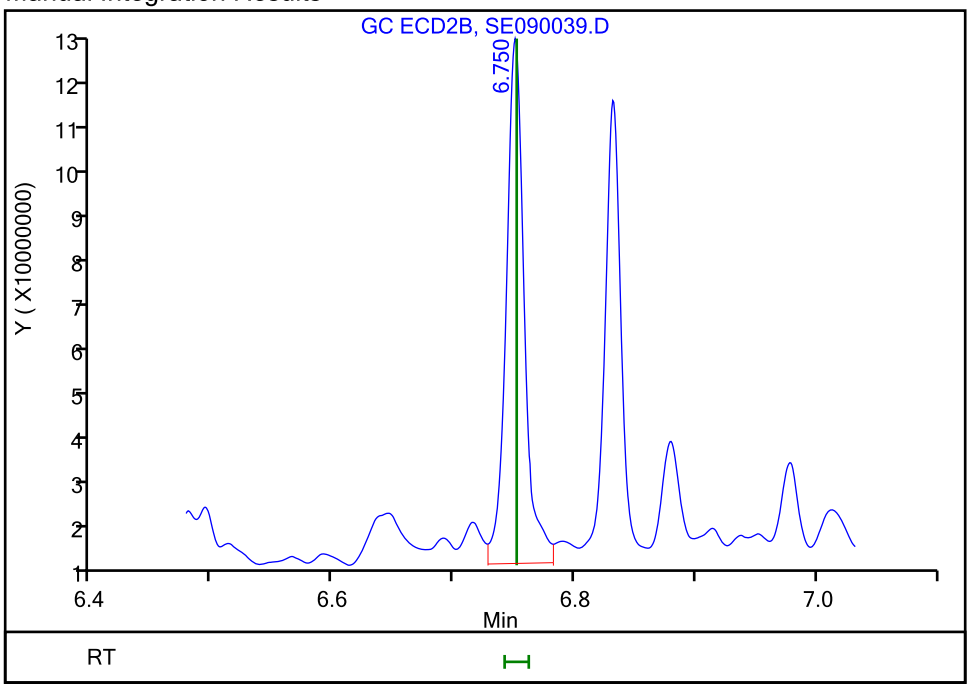
Processing Integration Results

RT: 6.75
Area: 104195385
Amount: 0.083742
Amount Units: ug/ml



Manual Integration Results

RT: 6.75
Area: 112509248
Amount: 0.090423
Amount Units: ug/ml



Reviewer: kellarj, 10-May-2018 11:20:52

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MS | Lab Sample ID: 680-151865-3 MS

Matrix: Solid | Lab File ID: SE110036.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:30

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.06(g) | Date Analyzed: 05/11/2018 22:14

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523572 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	31.5	J D 4	42	42	25

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110036.D
Lims ID: 680-151865-A-3-B MS
Client ID: GQ003
Sample Type: MS
Inject. Date: 11-May-2018 22:14:48 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 680-0047291-036
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 14-May-2018 09:49:29 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK029

First Level Reviewer: kellarj Date: 12-May-2018 14:57:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.427	2.434	-0.007	67459489	0.0400	0.1563	
2	2.489	2.487	0.002	12183320	0.0400	0.008789	
						RPD = 178.70	
2 2,6-Dichlorophenol							
1	4.910	4.909	0.001	2350702	NC	NC	
2	4.996	4.996	0.000	11597720	NC	NC	
						RPD = 0.00	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	22102251	NC	NC	
2	5.666	5.668	-0.002	100993474	NC	NC	
						RPD = 0.00	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	3991244	0.0400	0.0141	
2	6.009	6.009	0.000	11649973	0.0400	0.007595	
						RPD = 59.67	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	4135570	0.0400	0.0447	
2	6.394	6.394	0.000	10567512	0.0400	0.0414	
						RPD = 7.78	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	1947587	0.0400	0.0113	
2	6.719	6.720	-0.001	20018021	0.0400	0.0175	
						RPD = 42.95	
7 Dicamba							
1	6.608	6.609	-0.001	2635083	0.0200	0.002919	
2	6.799	6.800	-0.001	15105061	0.0200	0.003559	
						RPD = 19.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.741	6.757	-0.016	3792012	4.00	6.34	
2	6.847	6.848	-0.001	4457616	4.00	0.2523	
						RPD = 184.69	
9 MCPA							
1	6.883	6.883	0.000	2070489	4.00	2.42	
2	7.047	7.046	0.001	26968828	4.00	2.95	
						RPD = 19.75	
10 Dichlorprop							
1	7.069	7.069	0.000	2158206	0.0400	0.009378	
2	7.190	7.191	-0.001	11094450	0.0400	0.009678	
						RPD = 3.14	
11 2,4-D							
1	7.212	7.214	-0.002	5522050	0.0400	0.0202	
2	7.410	7.412	-0.002	23543066	0.0400	0.0187	
						RPD = 7.78	
12 Pentachlorophenol							
1	7.561	7.562	-0.001	19098262	0.0100	0.004369	
2	7.604	7.605	-0.001	77187911	0.0100	0.004923	
						RPD = 11.93	
13 Silvex (2,4,5-TP)							
1	7.660	7.661	-0.001	3470738	0.0100	0.002175	
2	7.742	7.744	-0.002	12376564	0.0100	0.002049	
						RPD = 5.92	
14 Chloramben							
1	7.737	7.739	-0.002	5636772	0.0400	0.004162	
2	8.047	8.049	-0.002	20557105	0.0400	0.004343	
						RPD = 4.27	
15 2,4,5-T							
1	7.815	7.816	-0.001	6851396	0.0100	0.004417	
2	7.974	7.976	-0.002	21269218	0.0100	0.004145	
						RPD = 6.35	
16 2,4-DB							
1	8.065	8.059	0.006	4063070	0.0400	0.0279	
2	8.189	8.190	-0.001	4249884	0.0400	0.005844	
						RPD = 130.69	
17 Dinoseb							
1	8.112	8.113	-0.001	16396540	0.0400	0.0181	
2	8.140	8.141	-0.001	42104128	0.0400	0.0256	
						RPD = 34.47	
18 Bentazon							
1	8.184	8.184	0.000	4018805	0.0400	0.0182	
2	8.542	8.544	-0.002	11787212	0.0400	0.0167	
						RPD = 8.23	
19 Picloram							
1	8.398	8.399	-0.001	8410192	0.0400	0.003717	
2	8.873	8.877	-0.004	22331283	0.0400	0.0117	
						RPD = 103.56	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.502	8.504	-0.002	10211077	0.0400	0.004230	
2	8.654	8.658	-0.004	31240438	0.0400	0.003848	
						RPD = 9.45	
21 Acifluorfen							
1	9.540	9.543	-0.003	8460928	0.0400	0.006446	
2	9.674	9.677	-0.003	18148299	0.0400	0.0206	
						RPD = 104.54	

QC Flag Legend

Processing Flags

NC - Not Calibrated

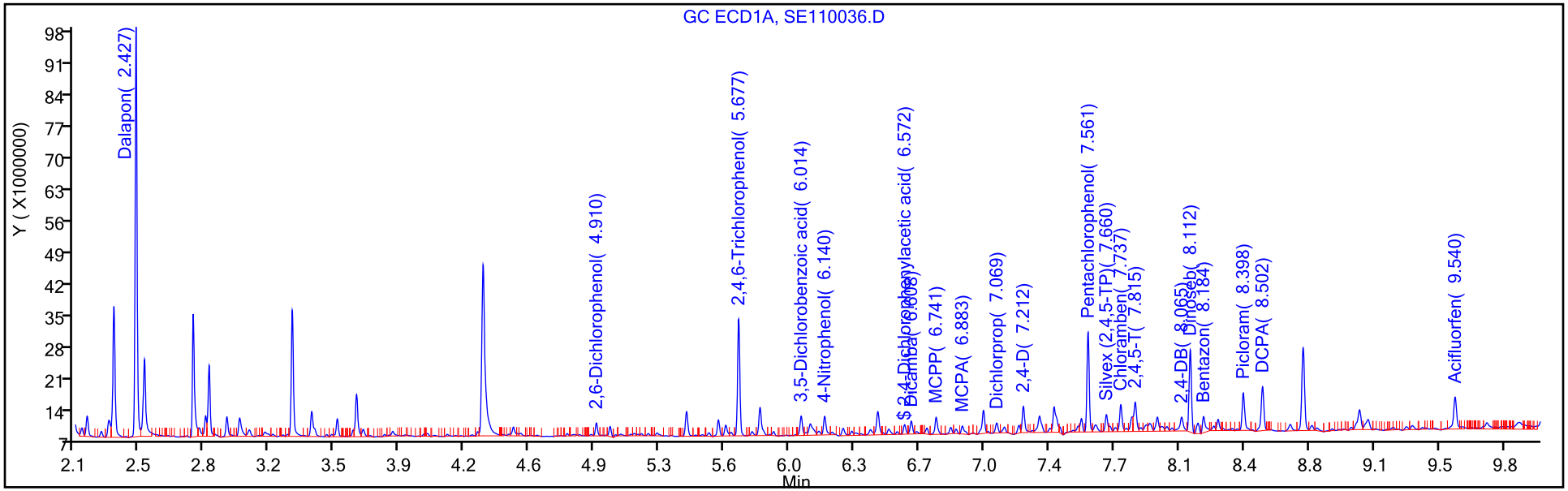
Report Date: 14-May-2018 14:51:01 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

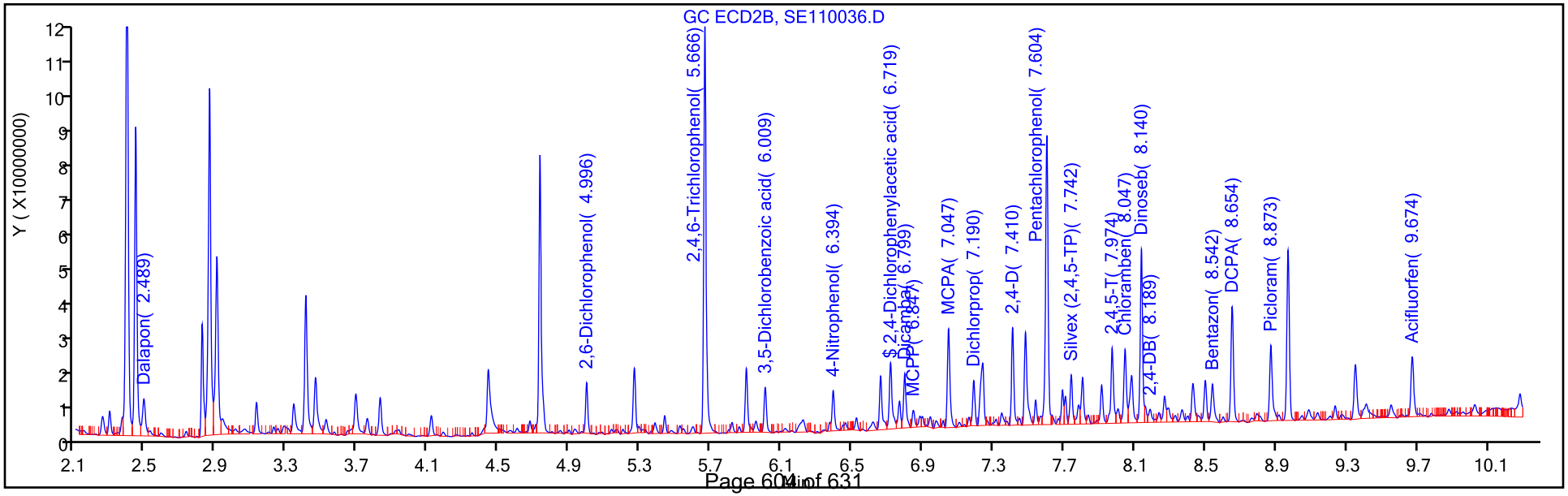
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110036.D

Injection Date:	11-May-2018 22:14:48	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-3-B MS			Worklist Smp#:	36
Client ID:	GQ003				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	36
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110036.D				
Lims ID:	680-151865-A-3-B MS				
Client ID:	GQ003				
Sample Type:	MS				
Inject. Date:	11-May-2018 22:14:48	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	680-0047291-036				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	14-May-2018 09:49:29	Calib Date:	11-May-2018 14:04:11		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK029				
First Level Reviewer: kellarj		Date:	12-May-2018 14:57:37		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0113	28.32

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0175	43.81

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MSD | Lab Sample ID: 680-151865-3 MSD

Matrix: Solid | Lab File ID: SE090040.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:30

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.07(g) | Date Analyzed: 05/10/2018 05:46

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523317 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	25.6	J1	8.4	4.3	2.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	35		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090040.D
Lims ID: 680-151865-A-3-C MSD
Client ID: GQ003
Sample Type: MSD
Inject. Date: 10-May-2018 05:46:29 ALS Bottle#: 40 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047236-040
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 10-May-2018 11:24:14 Calib Date: 09-May-2018 20:17:14
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 10-May-2018 11:21:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.605	6.604	0.001	8767230	0.2000	0.0444	
2	6.751	6.752	-0.001	87986705	0.2000	0.0707	
						RPD = 45.71	
11 2,4-D							
1	7.244	7.246	-0.002	150882813	0.2000	0.4781	
2	7.442	7.443	-0.001	703293125	0.2000	0.4818	
						RPD = 0.77	
15 2,4,5-T							
1	7.846	7.848	-0.002	152234806	0.0500	0.0817	
2	8.005	8.008	-0.003	474405003	0.0500	0.0761	
						RPD = 7.00	

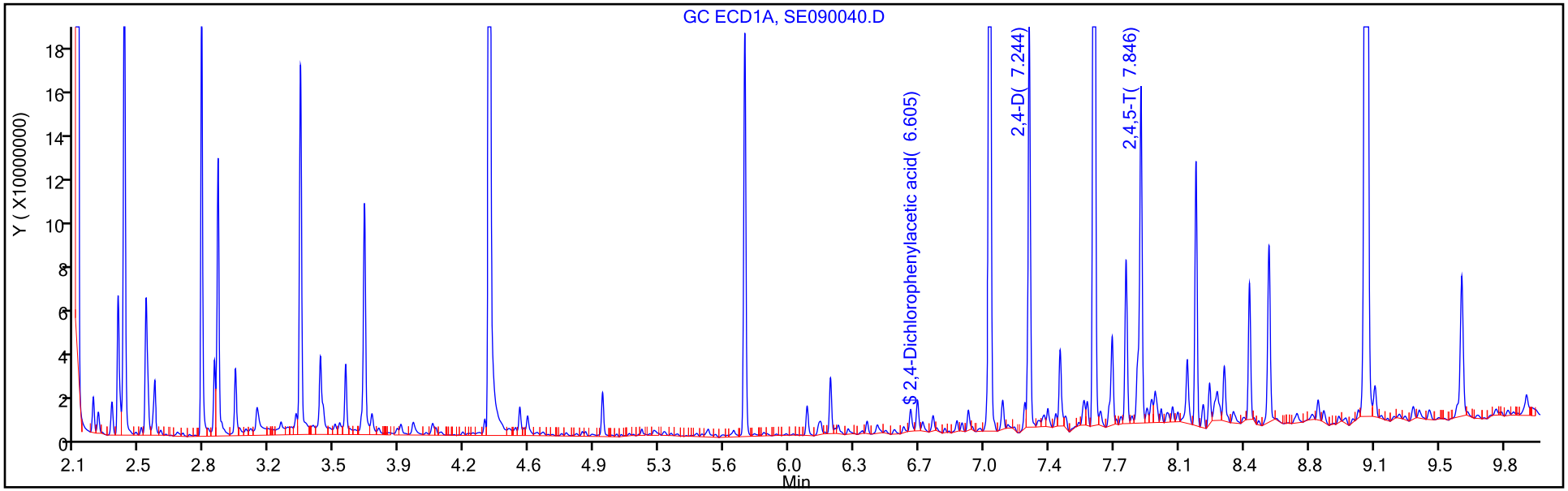
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TestAmerica Savannah

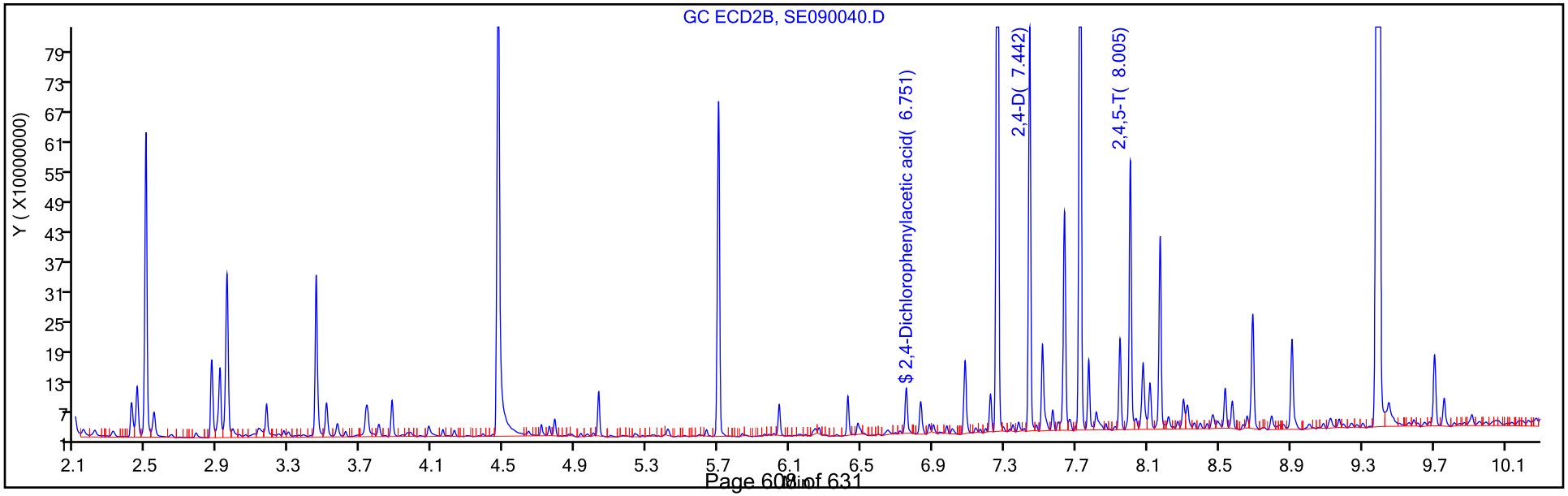
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090040.D

Injection Date:	10-May-2018 05:46:29	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-3-C MSD			Worklist Smp#:	40
Client ID:	GQ003				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090040.D				
Lims ID:	680-151865-A-3-C MSD				
Client ID:	GQ003				
Sample Type:	MSD				
Inject. Date:	10-May-2018 05:46:29	ALS Bottle#:	40	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047236-040				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	10-May-2018 11:24:14	Calib Date:	09-May-2018 20:17:14		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180509-47236.b\SE090011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	10-May-2018 11:21:36		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0444	22.20

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0707	35.36

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151865-1

SDG No.:

Client Sample ID: GQ003 MSD | Lab Sample ID: 680-151865-3 MSD

Matrix: Solid | Lab File ID: SE110037.D

Analysis Method: 8151A DOD | Date Collected: 04/23/2018 13:30

Extraction Method: 8151A | Date Extracted: 05/04/2018 14:00

Sample wt/vol: 30.07(g) | Date Analyzed: 05/11/2018 22:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 1.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523572 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
94-75-7	2,4-D	139	D 4 J1	42	42	25

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110037.D
Lims ID: 680-151865-A-3-C MSD
Client ID: GQ003
Sample Type: MSD
Inject. Date: 11-May-2018 22:34:19 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 680-0047291-037
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 12-May-2018 15:01:10 Calib Date: 11-May-2018 14:04:11
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK052

First Level Reviewer: kellarj Date: 12-May-2018 14:57:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.425	2.434	-0.009	65509646	0.0400	0.1518	
2	2.488	2.487	0.001	12519315	0.0400	0.009031	
						RPD = 177.54	
2 2,6-Dichlorophenol							
1	4.909	4.909	0.000	2830681	NC	NC	
2	4.997	4.996	0.001	13498750	NC	NC	
						RPD = 0.00	
3 2,4,6-Trichlorophenol							
1	5.677	5.678	-0.001	22997336	NC	NC	
2	5.667	5.668	-0.001	104248596	NC	NC	
						RPD = 0.00	
4 3,5-Dichlorobenzoic acid							
1	6.014	6.015	-0.001	3090550	0.0400	0.0109	
2	6.008	6.009	-0.001	9551805	0.0400	0.006227	
						RPD = 54.42	
5 4-Nitrophenol							
1	6.140	6.141	-0.001	4011904	0.0400	0.0434	
2	6.393	6.394	-0.001	10629976	0.0400	0.0416	
						RPD = 4.16	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.572	6.572	0.000	1497779	0.0400	0.008712	
2	6.718	6.720	-0.002	18370643	0.0400	0.0161	
						RPD = 59.45	
7 Dicamba							
1	6.608	6.609	-0.001	1857645	0.0200	0.002058	
2	6.799	6.800	-0.001	12720882	0.0200	0.002997	
						RPD = 37.16	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.743	6.757	-0.014	2689178	4.00	4.50	
2	6.848	6.848	0.000	4035629	4.00	0.1379	
						RPD = 188.10	
9 MCPA							
1	6.884	6.883	0.001	2330305	4.00	2.81	
2	7.048	7.046	0.002	28088772	4.00	3.11	
						RPD = 10.20	
10 Dichlorprop							
1	7.068	7.069	-0.001	2404270	0.0400	0.0104	
2	7.191	7.191	0.000	12125734	0.0400	0.0106	
						RPD = 1.24	
11 2,4-D							
1	7.212	7.214	-0.002	24496414	0.0400	0.0897	
2	7.410	7.412	-0.002	104195118	0.0400	0.0828	
						RPD = 8.02	
12 Pentachlorophenol							
1	7.563	7.562	0.001	74715981	0.0100	0.0171	
2	7.604	7.605	-0.001	71249425	0.0100	0.004544	
						RPD = 115.99	
13 Silvex (2,4,5-TP)							
1	7.660	7.661	-0.001	6236710	0.0100	0.003908	
2	7.742	7.744	-0.002	20673258	0.0100	0.003423	
						RPD = 13.21	
14 Chloramben							
1	7.736	7.739	-0.003	10982143	0.0400	0.008109	
2	8.046	8.049	-0.003	24122448	0.0400	0.005097	
						RPD = 45.62	
15 2,4,5-T							
1	7.815	7.816	-0.001	26300630	0.0100	0.0170	
2	7.974	7.976	-0.002	66789425	0.0100	0.0130	
						RPD = 26.29	
16 2,4-DB							
1	8.066	8.059	0.007	5575130	0.0400	0.0383	
2	8.188	8.190	-0.002	4330821	0.0400	0.005955	
						RPD = 146.12	
17 Dinoseb							
1	8.112	8.113	-0.001	15475509	0.0400	0.0171	
2	8.140	8.141	-0.001	41409267	0.0400	0.0254	
						RPD = 39.22	
18 Bentazon							
1	8.183	8.184	-0.001	3130624	0.0400	0.0142	
2	8.542	8.544	-0.002	11246057	0.0400	0.0160	
						RPD = 12.02	
19 Picloram							
1	8.398	8.399	-0.001	8757545	0.0400	0.003871	
2	8.873	8.877	-0.004	25264666	0.0400	0.0120	
						RPD = 102.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.502	8.504	-0.002	12285666	0.0400	0.005090	
2	8.654	8.658	-0.004	36184743	0.0400	0.004457	
						RPD = 13.24	
21 Acifluorfen							
1	9.542	9.543	-0.001	9444642	0.0400	0.007028	
2	9.674	9.677	-0.003	14989215	0.0400	0.0201	
						RPD = 96.25	

QC Flag Legend

Processing Flags

NC - Not Calibrated

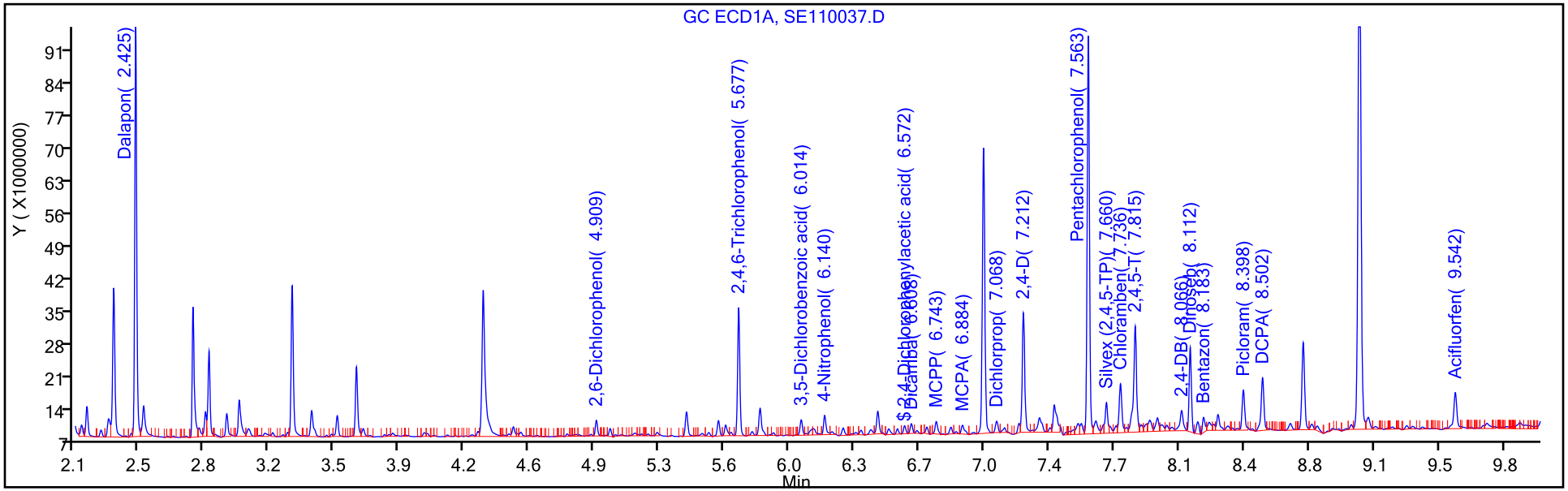
Report Date: 12-May-2018 15:02:13 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Savannah

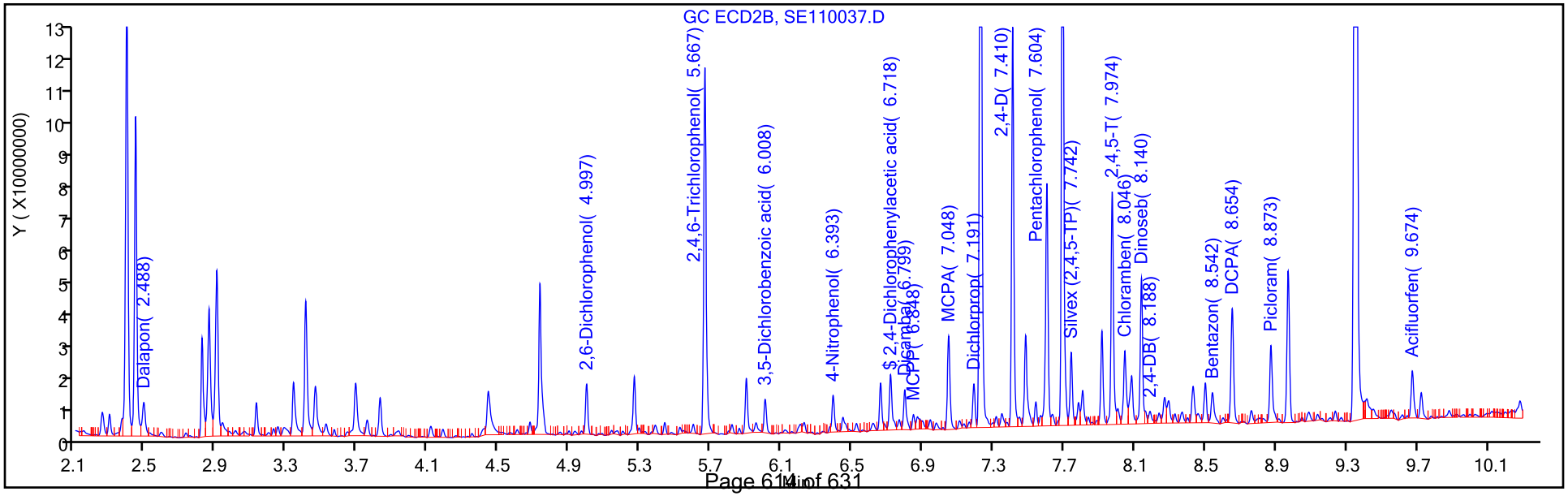
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110037.D

Injection Date:	11-May-2018 22:34:19	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151865-A-3-C MSD			Worklist Smp#:	37
Client ID:	GQ003				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	37
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110037.D				
Lims ID:	680-151865-A-3-C MSD				
Client ID:	GQ003				
Sample Type:	MSD				
Inject. Date:	11-May-2018 22:34:19	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	680-0047291-037				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	12-May-2018 15:01:10	Calib Date:	11-May-2018 14:04:11		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180511-47291.b\SE110011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK052				
First Level Reviewer: kellarj		Date:	12-May-2018 14:57:47		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.008712	21.78

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0161	40.20

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Start Date: 05/09/2018 17:59

Analysis Batch Number: 523317 End Date: 05/10/2018 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-523317/4		05/09/2018 17:59	1	SE090004.D	DB-XLB 0.32(mm)
IC 680-523317/4		05/09/2018 17:59	1	SE090004.D	DB-35MS 0.32(mm)
IC 680-523317/5		05/09/2018 18:19	1	SE090005.D	DB-XLB 0.32(mm)
IC 680-523317/5		05/09/2018 18:19	1	SE090005.D	DB-35MS 0.32(mm)
IC 680-523317/6		05/09/2018 18:39	1	SE090006.D	DB-XLB 0.32(mm)
IC 680-523317/6		05/09/2018 18:39	1	SE090006.D	DB-35MS 0.32(mm)
IC 680-523317/7		05/09/2018 18:58	1	SE090007.D	DB-XLB 0.32(mm)
IC 680-523317/7		05/09/2018 18:58	1	SE090007.D	DB-35MS 0.32(mm)
IC 680-523317/8		05/09/2018 19:18	1	SE090008.D	DB-XLB 0.32(mm)
IC 680-523317/8		05/09/2018 19:18	1	SE090008.D	DB-35MS 0.32(mm)
IC 680-523317/9		05/09/2018 19:37	1	SE090009.D	DB-XLB 0.32(mm)
IC 680-523317/9		05/09/2018 19:37	1	SE090009.D	DB-35MS 0.32(mm)
IC 680-523317/10		05/09/2018 19:57	1	SE090010.D	DB-XLB 0.32(mm)
IC 680-523317/10		05/09/2018 19:57	1	SE090010.D	DB-35MS 0.32(mm)
IC 680-523317/11		05/09/2018 20:17	1	SE090011.D	DB-XLB 0.32(mm)
IC 680-523317/11		05/09/2018 20:17	1	SE090011.D	DB-35MS 0.32(mm)
ICV 680-523317/12 CCV		05/09/2018 20:36	1	SE090012.D	DB-XLB 0.32(mm)
ICV 680-523317/12 CCV		05/09/2018 20:36	1	SE090012.D	DB-35MS 0.32(mm)
PIBLK 680-523317/14		05/09/2018 21:16	1		DB-XLB 0.32(mm)
PIBLK 680-523317/14		05/09/2018 21:16	1		DB-35MS 0.32(mm)
ZZZZZ		05/09/2018 21:35	1		DB-XLB 0.32(mm)
ZZZZZ		05/09/2018 21:35	1		DB-35MS 0.32(mm)
ZZZZZ		05/09/2018 21:55	1		DB-XLB 0.32(mm)
ZZZZZ		05/09/2018 21:55	1		DB-35MS 0.32(mm)
ZZZZZ		05/09/2018 22:15	1		DB-XLB 0.32(mm)
ZZZZZ		05/09/2018 22:15	1		DB-35MS 0.32(mm)
ZZZZZ		05/09/2018 22:34	1		DB-XLB 0.32(mm)
ZZZZZ		05/09/2018 22:34	1		DB-35MS 0.32(mm)
ZZZZZ		05/09/2018 22:54	1		DB-XLB 0.32(mm)
ZZZZZ		05/09/2018 22:54	1		DB-35MS 0.32(mm)
CCV 680-523317/32		05/10/2018 03:09	1	SE090032.D	DB-XLB 0.32(mm)
CCV 680-523317/32		05/10/2018 03:09	1	SE090032.D	DB-35MS 0.32(mm)
PIBLK 680-523317/33		05/10/2018 03:29	1	SE090033.D	DB-XLB 0.32(mm)
PIBLK 680-523317/33		05/10/2018 03:29	1	SE090033.D	DB-35MS 0.32(mm)
MB 680-522658/4-A		05/10/2018 03:48	1	SE090034.D	DB-XLB 0.32(mm)
MB 680-522658/4-A		05/10/2018 03:48	1	SE090034.D	DB-35MS 0.32(mm)
LCS 680-522658/5-A		05/10/2018 04:08	1	SE090035.D	DB-XLB 0.32(mm)
LCS 680-522658/5-A		05/10/2018 04:08	1	SE090035.D	DB-35MS 0.32(mm)
680-151865-1		05/10/2018 04:28	1	SE090036.D	DB-XLB 0.32(mm)
680-151865-1		05/10/2018 04:28	1	SE090036.D	DB-35MS 0.32(mm)
680-151865-2		05/10/2018 04:47	1	SE090037.D	DB-XLB 0.32(mm)
680-151865-2		05/10/2018 04:47	1	SE090037.D	DB-35MS 0.32(mm)
680-151865-3		05/10/2018 05:07	1	SE090038.D	DB-XLB 0.32(mm)
680-151865-3		05/10/2018 05:07	1	SE090038.D	DB-35MS 0.32(mm)

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Start Date: 05/09/2018 17:59

Analysis Batch Number: 523317 End Date: 05/10/2018 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
680-151865-3 MS		05/10/2018 05:26	1	SE090039.D	DB-XLB 0.32(mm)
680-151865-3 MS		05/10/2018 05:26	1	SE090039.D	DB-35MS 0.32(mm)
680-151865-3 MSD		05/10/2018 05:46	1	SE090040.D	DB-XLB 0.32(mm)
680-151865-3 MSD		05/10/2018 05:46	1	SE090040.D	DB-35MS 0.32(mm)
CCV 680-523317/47		05/10/2018 08:03	1	SE090047.D	DB-XLB 0.32(mm)
CCV 680-523317/47		05/10/2018 08:03	1	SE090047.D	DB-35MS 0.32(mm)
PIBLK 680-523317/48		05/10/2018 08:23	1	SE090048.D	DB-XLB 0.32(mm)
PIBLK 680-523317/48		05/10/2018 08:23	1	SE090048.D	DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 08:42	1		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 08:42	1		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 10:01	1		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 10:01	1		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 10:20	1		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 10:20	1		DB-35MS 0.32(mm)
CCV 680-523317/57		05/10/2018 11:19	1		DB-XLB 0.32(mm)
CCV 680-523317/57		05/10/2018 11:19	1		DB-35MS 0.32(mm)
PIBLK 680-523317/58		05/10/2018 11:39	1		DB-XLB 0.32(mm)
PIBLK 680-523317/58		05/10/2018 11:39	1		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 14:16	100		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 14:16	100		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 14:35	1		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 14:35	1		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 14:55	100		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 14:55	100		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 15:15	25		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 15:15	25		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 15:34	25		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 15:34	25		DB-35MS 0.32(mm)
ZZZZZ		05/10/2018 15:54	25		DB-XLB 0.32(mm)
ZZZZZ		05/10/2018 15:54	25		DB-35MS 0.32(mm)

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Start Date: 05/11/2018 11:46

Analysis Batch Number: 523572 End Date: 05/12/2018 16:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-523572/4		05/11/2018 11:46	1	SE110004.D	DB-XLB 0.32(mm)
IC 680-523572/4		05/11/2018 11:46	1	SE110004.D	DB-35MS 0.32(mm)
IC 680-523572/5		05/11/2018 12:06	1	SE110005.D	DB-XLB 0.32(mm)
IC 680-523572/5		05/11/2018 12:06	1	SE110005.D	DB-35MS 0.32(mm)
IC 680-523572/6		05/11/2018 12:25	1	SE110006.D	DB-XLB 0.32(mm)
IC 680-523572/6		05/11/2018 12:25	1	SE110006.D	DB-35MS 0.32(mm)
IC 680-523572/7		05/11/2018 12:45	1	SE110007.D	DB-XLB 0.32(mm)
IC 680-523572/7		05/11/2018 12:45	1	SE110007.D	DB-35MS 0.32(mm)
IC 680-523572/8		05/11/2018 13:05	1	SE110008.D	DB-XLB 0.32(mm)
IC 680-523572/8		05/11/2018 13:05	1	SE110008.D	DB-35MS 0.32(mm)
IC 680-523572/9		05/11/2018 13:24	1	SE110009.D	DB-XLB 0.32(mm)
IC 680-523572/9		05/11/2018 13:24	1	SE110009.D	DB-35MS 0.32(mm)
IC 680-523572/10		05/11/2018 13:44	1	SE110010.D	DB-XLB 0.32(mm)
IC 680-523572/10		05/11/2018 13:44	1	SE110010.D	DB-35MS 0.32(mm)
IC 680-523572/11		05/11/2018 14:04	1	SE110011.D	DB-XLB 0.32(mm)
IC 680-523572/11		05/11/2018 14:04	1	SE110011.D	DB-35MS 0.32(mm)
ICV 680-523572/12 CCV		05/11/2018 14:23	1	SE110012.D	DB-XLB 0.32(mm)
ICV 680-523572/12 CCV		05/11/2018 14:23	1	SE110012.D	DB-35MS 0.32(mm)
PIBLK 680-523572/14		05/11/2018 15:03	1		DB-XLB 0.32(mm)
PIBLK 680-523572/14		05/11/2018 15:03	1		DB-35MS 0.32(mm)
ZZZZZ		05/11/2018 15:23	1		DB-XLB 0.32(mm)
ZZZZZ		05/11/2018 15:23	1		DB-35MS 0.32(mm)
ZZZZZ		05/11/2018 15:42	1		DB-XLB 0.32(mm)
ZZZZZ		05/11/2018 15:42	1		DB-35MS 0.32(mm)
ZZZZZ		05/11/2018 16:02	1		DB-XLB 0.32(mm)
ZZZZZ		05/11/2018 16:02	1		DB-35MS 0.32(mm)
ZZZZZ		05/11/2018 17:40	1		DB-XLB 0.32(mm)
ZZZZZ		05/11/2018 17:40	1		DB-35MS 0.32(mm)
ZZZZZ		05/11/2018 19:37	1		DB-XLB 0.32(mm)
ZZZZZ		05/11/2018 19:37	1		DB-35MS 0.32(mm)
ZZZZZ		05/11/2018 19:57	1		DB-XLB 0.32(mm)
ZZZZZ		05/11/2018 19:57	1		DB-35MS 0.32(mm)
CCV 680-523572/30		05/11/2018 20:17	1	SE110030.D	DB-XLB 0.32(mm)
CCV 680-523572/30		05/11/2018 20:17	1	SE110030.D	DB-35MS 0.32(mm)
PIBLK 680-523572/31		05/11/2018 20:36	1	SE110031.D	DB-XLB 0.32(mm)
PIBLK 680-523572/31		05/11/2018 20:36	1	SE110031.D	DB-35MS 0.32(mm)
680-151865-3		05/11/2018 21:55	5	SE110035.D	DB-XLB 0.32(mm)
680-151865-3		05/11/2018 21:55	5	SE110035.D	DB-35MS 0.32(mm)
680-151865-3 MS		05/11/2018 22:14	5	SE110036.D	DB-XLB 0.32(mm)
680-151865-3 MS		05/11/2018 22:14	5	SE110036.D	DB-35MS 0.32(mm)
680-151865-3 MSD		05/11/2018 22:34	5	SE110037.D	DB-XLB 0.32(mm)
680-151865-3 MSD		05/11/2018 22:34	5	SE110037.D	DB-35MS 0.32(mm)
CCV 680-523572/49		05/12/2018 02:29	1	SE110049.D	DB-XLB 0.32(mm)
CCV 680-523572/49		05/12/2018 02:29	1	SE110049.D	DB-35MS 0.32(mm)

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: CSGS Start Date: 05/11/2018 11:46

Analysis Batch Number: 523572 End Date: 05/12/2018 16:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PIBLK 680-523572/50		05/12/2018 02:49	1	SE110050.D	DB-XLB 0.32(mm)
PIBLK 680-523572/50		05/12/2018 02:49	1	SE110050.D	DB-35MS 0.32(mm)
CCV 680-523572/61		05/12/2018 06:24	1		DB-XLB 0.32(mm)
CCV 680-523572/61		05/12/2018 06:24	1		DB-35MS 0.32(mm)
PIBLK 680-523572/62		05/12/2018 06:44	1		DB-XLB 0.32(mm)
PIBLK 680-523572/62		05/12/2018 06:44	1		DB-35MS 0.32(mm)
CCV 680-523572/72		05/12/2018 10:00	1		DB-XLB 0.32(mm)
CCV 680-523572/72		05/12/2018 10:00	1		DB-35MS 0.32(mm)
PIBLK 680-523572/73		05/12/2018 10:20	1		DB-XLB 0.32(mm)
PIBLK 680-523572/73		05/12/2018 10:20	1		DB-35MS 0.32(mm)
CCV 680-523572/90		05/12/2018 15:53	1		DB-XLB 0.32(mm)
CCV 680-523572/90		05/12/2018 15:53	1		DB-35MS 0.32(mm)
PIBLK 680-523572/91		05/12/2018 16:12	1		DB-XLB 0.32(mm)
PIBLK 680-523572/91		05/12/2018 16:12	1		DB-35MS 0.32(mm)

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Batch Number: 522658 Batch Start Date: 05/04/18 15:15 Batch Analyst: Wilson, Charles E

Batch Method: 8151A Batch End Date: 05/09/18 14:26

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HERBwkLCS 00049	SG HerbwkSurr 00044		
680-151865-A-1	GQ001	8151A, 8151A DOD	T	30.03 g	10 mL		1 mL		
680-151865-A-2	GQ002	8151A, 8151A DOD	T	30.05 g	10 mL		1 mL		
680-151865-A-3	GQ003	8151A, 8151A DOD	T	30.05 g	10 mL		1 mL		
MB 680-522658/4		8151A, 8151A DOD		30.63 g	10 mL		1 mL		
LCS 680-522658/5		8151A, 8151A DOD		30.86 g	10 mL	1 mL	1 mL		
680-151865-A-3 MS	GQ003	8151A, 8151A DOD	T	30.06 g	10 mL	1 mL	1 mL		
680-151865-A-3 MSD	GQ003	8151A, 8151A DOD	T	30.07 g	10 mL	1 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Batch Number: 522658 Batch Start Date: 05/04/18 15:15 Batch Analyst: Wilson, Charles E

Batch Method: 8151A Batch End Date: 05/09/18 14:26

Batch Notes	
Balance ID	30
Batch Comment	BOX RC
Carbitol ID	5424057
Diazald ID	5424071
Diethyl Ether ID	5389783
Sulfuric Acid Lot Number	5423977
Potassium Hydroxide ID	5370090
MeCL2 ID	5428080
Acidified Methanol ID	5442092
MTBE ID	5424031
N-evap ID	N-EVAP
N-evap Temperature	55 Degrees C
Na2SO4 ID	5222493
NaOH Lot #	5423983
Ottawa Sand ID	5407071
pH Paper ID	5426313
Pipette ID	GE38/CC40G
Analyst ID - Reagent Drop	CEW
Silica Gel ID	4252783
Silicic Acid ID	5183663
Uncorrected Temperature	EXKD2 77.0 EXKD3 77.6 EXKD4 Degrees C
Water Bath ID	EXKD2 EXKD3 EXKD4
Water Bath Temperature	EXKD2 77.0 EXKD3 77.3 EXKD4 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151865-1

SDG No.:

Project: Andersen AFB, Guam - Herbicides

Client Sample ID	Lab Sample ID
GQ001	680-151865-1
GQ002	680-151865-2
GQ003	680-151865-3

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151865-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/01/2005 13:43

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151865-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/09/2011 17:03

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 05/07/2018 16:07 End Date: 05/07/2018 16:07

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
680-151865-1	1	T	16:07	X	X																								
680-151865-2	1	T	16:07	X	X																								
680-151865-3	1	T	16:07	X	X																								
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
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ZZZZZZ			16:07																										
ZZZZZZ			16:07																										

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151865-1

SDG No.:

Batch Number: 523856 Batch Start Date: 05/07/18 16:07 Batch Analyst: Chamberlain, Kim A

Batch Method: Moisture Batch End Date: 05/08/18 09:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
680-151865-A-1	GQ001	Moisture	T	1.239 g	6.426 g	6.353 g			
680-151865-A-2	GQ002	Moisture	T	1.016 g	5.069 g	5.029 g			
680-151865-A-3	GQ003	Moisture	T	1.282 g	6.132 g	6.077 g			

Batch Notes	
Balance ID	NA- see documents
Oven ID	Na- See documents

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MOISTURE CONTENT DETERMINATION

Analytical Batch: 18MCE001 Start Date/Time: 05/07/18 16:07 Temp IN (°C): 105

Instrument ID: 10601202 End Date/Time: 05/08/18 9:37 Temp Out (°C): 105

Sample ID	Weight of Dish (g)	Wet Weight+ Dish (g)	Dry Weight+ Dish (g)	Percent Solids	Percent Moisture	NOTES
680-151865-1 D194-01	1.239	6.426	6.353	98.6%	1.4%	
D194-02 -2	1.016	5.069	5.029	99.0%	1.0%	
D194-03 -3	1.282	6.132	6.077	98.9%	1.1%	
680-151914-1 D202-01	1.021	6.433	6.205	95.8%	4.2%	
D202-02 -2	1.234	6.71	6.582	97.7%	2.3%	
D202-03 -3	1.248	6.31	6.129	96.4%	3.6%	
680-151915-1 D210-01	1.261	6.397	6.003	92.3%	7.7%	
D210-02 -2	1.265	6.535	6.067	91.1%	8.9%	
D210-03 -3	1.29	6.22	5.822	91.9%	8.1%	
E011-01	1.274	8.774	7.713	85.9%	14.1%	
E021-01	1.257	8.331	7.831	92.9%	7.1%	2.5% ✓
E021-01D	1.296	8.334	7.849	93.1%	6.9%	
E021-02	1.295	8.208	7.649	91.9%	8.1%	
E021-03	0.996	8.405	7.918	93.4%	6.6%	
E021-04	1.263	8.151	7.691	93.3%	6.7%	
E021-05	1.413	8.343	7.842	92.8%	7.2%	
E025-01	1.333	8.922	7.876	86.2%	13.8%	
E025-02	1.099	8.255	7.283	86.4%	13.6%	
E025-03	1.269	8.546	7.63	87.4%	12.6%	
E025-04	1.104	8.041	7.146	87.1%	12.9%	
E025-05	1.086	8.271	6.387	73.8%	26.2%	

COMMENT - Comments: Sample D194-02 was limited in amount

Initial Reading by: NCrist

Final Reading by: NCrist

Reviewed by:

Thermometer ID: 660330

Shipping and Receiving Documents

CHAIN OF CUSTODY

EMAX Laboratories, Inc.

1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 18D194

SAMPLE STORAGE

EMAX CONTROL NO. 18D194

PROJECT CODE: AEC1801

CLIENT : AECOM
PROJECT : ANDERSEN AFB, JQ13
COORDINATOR
TEL FAX EMAIL
SEND REPORT TO BRANT LANDERS
COMPANY AECOM
ADDRESS 1001 BISHOP STREET, SUITE 1600
HONOLULU HI 96813
EMAX PM

MATRIX CODE	PRESERVATIVE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sl	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure P	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: 8151A (2,4-D AND 2,4,5-T) — LP 4/30/18

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☐ 7 days
- ☐ 14 days
- ☐ 21 days

STANDARD

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	PRESERVATIVE CODE IC	COMMENTS
1	GQ001		4/23/2018	13:20	1	4OZ	JAR	SS		X	EMAX ID 18D194-01 (ISM SAMPLE)
2	GQ002		4/23/2018	13:25	1	4OZ	JAR	SS		X	EMAX ID 18D194-02 (ISM SAMPLE)
3	GQ003		4/23/2018	13:30	1	4OZ	JAR	SS		X	EMAX ID 18D194-03 (ISM SAMPLE)
4	GQ003MS		4/23/2018	13:30	1	4OZ	JAR	SS		X	EMAX ID 18D194-03M (ISM SAMPLE)
5	GQ003MSD		4/23/2018	13:30	1	4OZ	JAR	SS		X	EMAX ID 18D194-03S (ISM SAMPLE)

LP 4/30/18

Instructions :

PLEASE FOLLOW PROJECT DATA REQUIREMENTS FROM AECOM.

Project Number: #60540676

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY	Cooler #	Temp. (°C)
	05/01/18	13:58	5/2/18 0845		4.6 (4.0)

Sample #s

Subcontract to:
TA Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
Main Phone: **912.354.7858**

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

680-151865 Chain of Custody

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 680-151865-1

Login Number: 151865

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-151914-1

Job Description: Andersen AFB, Guam - Herbicides

For:
AECOM Technical Services Inc.
1001 Bishop Street
Ste 1600
Honolulu, HI 96813

Attention: Dr. Brant Landers

Approved for release.
Stephanie K Rothmeyer
Project Manager I
5/15/2018 4:11 PM

Designee for
Patrick J McEntee, Manager of Project Management
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0107
patrick.mcentee@testamericainc.com
05/15/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Case Narrative 5

Detection Summary 6

Client Sample Results 7

Default Detection Limits 8

Surrogate Summary 9

QC Sample Results 10

QC Association 11

Chronicle 12

Certification Summary 13

Method Summary 15

Sample Summary 16

Manual Integration Summary 17

Reagent Traceability 24

COAs 75

Organic Sample Data 133

GC Semi VOA 133

Method 8151 DOD 133

Method 8151 DOD QC Summary 134

Method 8151 DOD Sample Data 138

Standards Data 152

Method 8151 DOD ICAL Data 152

Method 8151 DOD CCAL Data 286

Raw QC Data 370

Table of Contents

Method 8151 DOD Blank Data 370

Method 8151 DOD LCS/LCSD Data 395

Method 8151 DOD Run Logs 401

Method 8151 DOD Prep Data 403

Inorganic Sample Data 405

General Chemistry Data 405

Gen Chem Cover Page 406

Gen Chem MDL 407

Gen Chem Analysis Run Log 409

Gen Chem Prep Data 410

Gen Chem Raw Data 411

Shipping and Receiving Documents 412

Client Chain of Custody 413

Sample Receipt Checklist 414

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
M	Manual integrated compound.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: Andersen AFB, Guam - Herbicides

Report Number: 680-151914-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 5/3/2018 at 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4º C.

Receipt Exceptions
ISM preparation was performed by EMAX laboratories for the requested 8151 Herbicides analyses performed by TestAmerica.

Percent moisture analysis was performed by EMAX laboratories and data was provided to TestAmerica for dry weight correction on analytical results.

CHLORINATED HERBICIDES
Samples GQ007 (680-151914-1), GQ008 (680-151914-2) and GQ009 (680-151914-3) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/03/2018 and analyzed on 05/08/2018 and 05/09/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Samples GQ007 (680-151914-1), GQ008 (680-151914-2) and GQ009 (680-151914-3) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 05/07/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 680-151914-1
Project/Site: Andersen AFB, Guam - Herbicides

Client Sample ID: GQ007 Lab Sample ID: 680-151914-1

No Detections.

Client Sample ID: GQ008 Lab Sample ID: 680-151914-2

No Detections.

Client Sample ID: GQ009 Lab Sample ID: 680-151914-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: GQ007 — Lab Sample ID: 680-151914-1

Date Collected: 04/25/18 11:00 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 95.8**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.5	U	8.7	2.4	ug/Kg	☼	05/03/18 11:22	05/08/18 23:56	1
2,4-D	8.7	U M	8.7	5.2	ug/Kg	☼	05/03/18 11:22	05/08/18 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*109*		*27 - 122*	*05/03/18 11:22*	*05/08/18 23:56*	*1*

Client Sample ID: GQ008 — Lab Sample ID: 680-151914-2

Date Collected: 04/25/18 11:05 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 97.7**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.4	U	8.5	2.4	ug/Kg	☼	05/03/18 11:22	05/09/18 00:16	1
2,4-D	8.5	U	8.5	5.1	ug/Kg	☼	05/03/18 11:22	05/09/18 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*85*		*27 - 122*	*05/03/18 11:22*	*05/09/18 00:16*	*1*

Client Sample ID: GQ009 — Lab Sample ID: 680-151914-3

Date Collected: 04/25/18 11:10 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 96.4**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.5	U	8.6	2.4	ug/Kg	☼	05/03/18 11:22	05/09/18 00:35	1
2,4-D	8.6	U M	8.6	5.2	ug/Kg	☼	05/03/18 11:22	05/09/18 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*102*		*27 - 122*	*05/03/18 11:22*	*05/09/18 00:35*	*1*

Default Detection Limits

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151914-1

Method: 8151A DOD - Herbicides (GC)

Prep: 8151A

Analyte	LOQ	DL	Units	Method
2,4,5-T	8.3	2.3	ug/Kg	8151A DOD
2,4-D	8.3	5.0	ug/Kg	8151A DOD

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151914-1

Method: 8151A DOD - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCPAA2 (27-122)								
680-151914-1	GQ007	109								
680-151914-2	GQ008	85								
680-151914-3	GQ009	102								
LCS 680-522541/11-A	Lab Control Sample	54								
MB 680-522541/10-A	Method Blank	52								

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 8151A DOD - Herbicides (GC)

Lab Sample ID: MB 680-522541/10-A
Matrix: Solid
Analysis Batch: 523063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522541

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.3	U M	8.3	2.3	ug/Kg		05/03/18 11:22	05/08/18 22:19	1
2,4-D	8.3	U	8.3	5.0	ug/Kg		05/03/18 11:22	05/08/18 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*52*		*27 - 122*	*05/03/18 11:22*	*05/08/18 22:19*	*1*

Lab Sample ID: LCS 680-522541/11-A
Matrix: Solid
Analysis Batch: 523063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			16.3	8.90		ug/Kg		54	31 - 138		
2,4-D			65.4	44.5		ug/Kg		68	28 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr)	*54*		*27 - 122*

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151914-1

GC Semi VOA

Prep Batch: 522541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151914-1	GQ007	Total/NA	Solid	8151A	
680-151914-2	GQ008	Total/NA	Solid	8151A	
680-151914-3	GQ009	Total/NA	Solid	8151A	
MB 680-522541/10-A	Method Blank	Total/NA	Solid	8151A	
LCS 680-522541/11-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 523063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151914-1	GQ007	Total/NA	Solid	8151A DOD	522541
680-151914-2	GQ008	Total/NA	Solid	8151A DOD	522541
680-151914-3	GQ009	Total/NA	Solid	8151A DOD	522541
MB 680-522541/10-A	Method Blank	Total/NA	Solid	8151A DOD	522541
LCS 680-522541/11-A	Lab Control Sample	Total/NA	Solid	8151A DOD	522541

General Chemistry

Analysis Batch: 523856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151914-1	GQ007	Total/NA	Solid	Moisture	
680-151914-2	GQ008	Total/NA	Solid	Moisture	
680-151914-3	GQ009	Total/NA	Solid	Moisture	

Client Sample ID: GQ007 — Lab Sample ID: 680-151914-1

Date Collected: 04/25/18 11:00 — **Matrix: Solid**
Date Received: 05/03/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ007 — Lab Sample ID: 680-151914-1

Date Collected: 04/25/18 11:00 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 95.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522541	05/03/18 11:22	HDM	TAL SAV
Total/NA	Analysis	8151A DOD		1	523063	05/08/18 23:56	JCK	TAL SAV

Client Sample ID: GQ008 — Lab Sample ID: 680-151914-2

Date Collected: 04/25/18 11:05 — **Matrix: Solid**
Date Received: 05/03/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ008 — Lab Sample ID: 680-151914-2

Date Collected: 04/25/18 11:05 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522541	05/03/18 11:22	HDM	TAL SAV
Total/NA	Analysis	8151A DOD		1	523063	05/09/18 00:16	JCK	TAL SAV

Client Sample ID: GQ009 — Lab Sample ID: 680-151914-3

Date Collected: 04/25/18 11:10 — **Matrix: Solid**
Date Received: 05/03/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ009 — Lab Sample ID: 680-151914-3

Date Collected: 04/25/18 11:10 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 96.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522541	05/03/18 11:22	HDM	TAL SAV
Total/NA	Analysis	8151A DOD		1	523063	05/09/18 00:35	JCK	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 680-151914-1
Project/Site: Andersen AFB, Guam - Herbicides

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-19
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		P330-17-00213	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 680-151914-1
Project/Site: Andersen AFB, Guam - Herbicides

Laboratory: TestAmerica Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19
New Jersey	NELAP	2	CO004	06-30-18

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151914-1

Method	Method Description	Protocol	Laboratory
8151A DOD	Herbicides (GC)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV
8151A	Extraction (Herbicides)	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151914-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-151914-1	GQ007	Solid	04/25/18 11:00	05/03/18 09:00
680-151914-2	GQ008	Solid	04/25/18 11:05	05/03/18 09:00
680-151914-3	GQ009	Solid	04/25/18 11:10	05/03/18 09:00

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: IC 680-523063/4 Client Sample ID:

Date Analyzed: 05/08/18 11:58 Lab File ID: SE080004.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:07
Acifluorfen	9.80	Baseline Smoothing	kellarj	05/08/18 16:07

Lab Sample ID: IC 680-523063/8 Client Sample ID:

Date Analyzed: 05/08/18 13:16 Lab File ID: SE080008.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MCPA	7.16	Baseline Smoothing	kellarj	05/08/18 16:10
Dichlorprop	7.30	Baseline Smoothing	kellarj	05/08/18 16:10
2,4-D	7.52	Baseline Smoothing	kellarj	05/08/18 16:10
Pentachlorophenol	7.71	Baseline Smoothing	kellarj	05/08/18 16:10
Silvex (2,4,5-TP)	7.85	Baseline Smoothing	kellarj	05/08/18 16:10
2,4,5-T	8.08	Baseline Smoothing	kellarj	05/08/18 16:10
Chloramben	8.16	Baseline Smoothing	kellarj	05/08/18 16:10
Dinoseb	8.25	Baseline Smoothing	kellarj	05/08/18 16:10
2,4-DB	8.30	Baseline Smoothing	kellarj	05/08/18 16:10
Bentazon	8.66	Baseline Smoothing	kellarj	05/08/18 16:10
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	Baseline Smoothing	kellarj	05/08/18 16:10
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:10

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: IC 680-523063/11 Client Sample ID:

Date Analyzed: 05/08/18 14:15 Lab File ID: SE080011.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrophenol	6.26	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-D	7.35	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-DB	8.19	Baseline Smoothing	kellarj	05/08/18 16:11
Picloram	8.55	Baseline Smoothing	kellarj	05/08/18 16:11

Lab Sample ID: IC 680-523063/11 Client Sample ID:

Date Analyzed: 05/08/18 14:15 Lab File ID: SE080011.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrophenol	6.52	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-D	7.53	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-DB	8.31	Baseline Smoothing	kellarj	05/08/18 16:11
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:11

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: ICV 680-523063/12 CCV Client Sample ID:

Date Analyzed: 05/08/18 14:35 Lab File ID: SE080012.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrophenol	6.51	Baseline Smoothing	kellarj	05/08/18 16:12
2,4-Dichlorophenylacetic acid (Surr)	6.83	Baseline Smoothing	kellarj	05/08/18 16:12
Dicamba	6.91	Baseline Smoothing	kellarj	05/08/18 16:12
MCPP	6.96	Baseline Smoothing	kellarj	05/08/18 16:12
MCPA	7.16	Baseline Smoothing	kellarj	05/08/18 16:12
Dichlorprop	7.30	Baseline Smoothing	kellarj	05/08/18 16:12
2,4-D	7.52	Baseline Smoothing	kellarj	05/08/18 16:12
Pentachlorophenol	7.72	Baseline Smoothing	kellarj	05/08/18 16:12
Silvex (2,4,5-TP)	7.85	Baseline Smoothing	kellarj	05/08/18 16:12
2,4,5-T	8.08	Baseline Smoothing	kellarj	05/08/18 16:12
Chloramben	8.16	Baseline Smoothing	kellarj	05/08/18 16:12
Dinoseb	8.25	Baseline Smoothing	kellarj	05/08/18 16:12
2,4-DB	8.30	Baseline Smoothing	kellarj	05/08/18 16:12
Bentazon	8.66	Baseline Smoothing	kellarj	05/08/18 16:12
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	Baseline Smoothing	kellarj	05/08/18 16:12
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:12
Acifluorfen	9.80	Baseline Smoothing	kellarj	05/08/18 16:12

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: CCV 680-523063/28 Client Sample ID:

Date Analyzed: 05/08/18 21:40 Lab File ID: SE080028.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.68	Baseline Smoothing	kellarj	05/09/18 09:21
Dicamba	6.72	Baseline Smoothing	kellarj	05/09/18 09:21
MCPP	6.87	Baseline Smoothing	kellarj	05/09/18 09:21
MCPA	6.99	Baseline Smoothing	kellarj	05/09/18 09:21
Dichlorprop	7.18	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-D	7.33	Baseline Smoothing	kellarj	05/09/18 09:21
Pentachlorophenol	7.67	Baseline Smoothing	kellarj	05/09/18 09:21
Silvex (2,4,5-TP)	7.77	Baseline Smoothing	kellarj	05/09/18 09:21
Chloramben	7.86	Baseline Smoothing	kellarj	05/09/18 09:21
2,4,5-T	7.93	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-DB	8.18	Baseline Smoothing	kellarj	05/09/18 09:21
Dinoseb	8.22	Baseline Smoothing	kellarj	05/09/18 09:21
Bentazon	8.30	Baseline Smoothing	kellarj	05/09/18 09:21
Picloram	8.53	Baseline Smoothing	kellarj	05/09/18 09:21
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	Baseline Smoothing	kellarj	05/09/18 09:21
Acifluorfen	9.67	Baseline Smoothing	kellarj	05/09/18 09:21

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: CCV 680-523063/28 Client Sample ID:

Date Analyzed: 05/08/18 21:40 Lab File ID: SE080028.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.83	Baseline Smoothing	kellarj	05/09/18 09:21
Dicamba	6.91	Baseline Smoothing	kellarj	05/09/18 09:21
MCPP	6.96	Baseline Smoothing	kellarj	05/09/18 09:21
MCPA	7.15	Baseline Smoothing	kellarj	05/09/18 09:21
Dichlorprop	7.30	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-D	7.52	Baseline Smoothing	kellarj	05/09/18 09:21
Pentachlorophenol	7.71	Baseline Smoothing	kellarj	05/09/18 09:21
Silvex (2,4,5-TP)	7.85	Baseline Smoothing	kellarj	05/09/18 09:21
2,4,5-T	8.08	Baseline Smoothing	kellarj	05/09/18 09:21
Chloramben	8.16	Baseline Smoothing	kellarj	05/09/18 09:21
Dinoseb	8.25	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-DB	8.30	Baseline Smoothing	kellarj	05/09/18 09:21
Bentazon	8.66	Baseline Smoothing	kellarj	05/09/18 09:21
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	Baseline Smoothing	kellarj	05/09/18 09:21
Picloram	9.01	Baseline Smoothing	kellarj	05/09/18 09:21

Lab Sample ID: PIBLK 680-523063/29 Client Sample ID:

Date Analyzed: 05/08/18 21:59 Lab File ID: SE080029.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/09/18 09:21

Lab Sample ID: PIBLK 680-523063/29 Client Sample ID:

Date Analyzed: 05/08/18 21:59 Lab File ID: SE080029.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: MB 680-522541/10-A Client Sample ID:

Date Analyzed: 05/08/18 22:19 Lab File ID: SE080030.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Invalid Compound ID	kellarj	05/09/18 09:29

Lab Sample ID: MB 680-522541/10-A Client Sample ID:

Date Analyzed: 05/08/18 22:19 Lab File ID: SE080030.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Unspecified		

Lab Sample ID: LCS 680-522541/11-A Client Sample ID:

Date Analyzed: 05/08/18 22:38 Lab File ID: SE080031.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.68	Baseline Smoothing	kellarj	05/09/18 09:29
2,4-D	7.32	Baseline Smoothing	kellarj	05/09/18 09:29
2,4,5-T	7.92	Baseline Smoothing	kellarj	05/09/18 09:29

Lab Sample ID: 680-151914-1 Client Sample ID: GQ007

Date Analyzed: 05/08/18 23:56 Lab File ID: SE080035.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/09/18 09:30

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: 680-151914-1 Client Sample ID: GQ007

Date Analyzed: 05/08/18 23:56 Lab File ID: SE080035.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

Lab Sample ID: 680-151914-3 Client Sample ID: GQ009

Date Analyzed: 05/09/18 00:35 Lab File ID: SE080037.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/09/18 09:30

Lab Sample ID: 680-151914-3 Client Sample ID: GQ009

Date Analyzed: 05/09/18 00:35 Lab File ID: SE080037.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

Lab Sample ID: PIBLK 680-523063/39 Client Sample ID:

Date Analyzed: 05/09/18 01:14 Lab File ID: SE080039.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/09/18 09:22

Lab Sample ID: PIBLK 680-523063/39 Client Sample ID:

Date Analyzed: 05/09/18 01:14 Lab File ID: SE080039.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HERBwkLCS_00049	05/05/18	04/25/18	meoh, Lot SG_meOH_00004	200 mL	HERBICVMASTER_00013	20 mL	2,4,6-Trichlorophenol	1 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							3,5-Dichlorobenzoic acid	2 ug/mL
							4-Nitrophenol	2 ug/mL
							Acifluorfen	2 ug/mL
							Bentazon	2 ug/mL
							Chloramben	2 ug/mL
							DCPA	2 ug/mL
							2,4,5-T	0.5 ug/mL
							2,4-D	2 ug/mL
							2,4-DB	2 ug/mL
							Dalapon	2 ug/mL
							Dicamba	1 ug/mL
							Dichlorprop	2 ug/mL
							Dinoseb	2 ug/mL
							MCPA	200 ug/mL
							MCPP	200 ug/mL
							Pentachlorophenol	0.5 ug/mL
							Picloram	2 ug/mL
							Silvex (2,4,5-TP)	0.5 ug/mL
					HERBMASTER_00032	20 mL	2,4,5-T	0.5 ug/mL
							2,4-D	2 ug/mL
							2,4-DB	2 ug/mL
							Dalapon	2 ug/mL
							Dicamba	1 ug/mL
							Dichlorprop	2 ug/mL
							Dinoseb	2 ug/mL
							MCPA	200 ug/mL
							MCPP	200 ug/mL
							Pentachlorophenol	0.5 ug/mL
							Picloram	2 ug/mL
							Silvex (2,4,5-TP)	0.5 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							3,5-Dichlorobenzoic acid	2 ug/mL
							4-Nitrophenol	2 ug/mL
							Acifluorfen	2 ug/mL
							Bentazon	2 ug/mL
							Chloramben	2 ug/mL
							DCPA	2 ug/mL
.HERBICVMASTER_00013	05/05/18	02/05/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHERBADDICV_00013	2.5 mL	2,4,6-Trichlorophenol	5 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DCPA	10 ug/mL
					SGHerbICV1_00005	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00006	1.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
..SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		2,4,6-Trichlorophenol	100 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
..SGHerbICV1_00005	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
.HERBMASTER_00032	05/05/18	02/05/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHerbList1_00006	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbList1_00008	1.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHMCCALFA_00040	2.5 mL	2,4,6-Trichlorophenol	5 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
..SGHerbList1_00006	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHMCCALFA_00040	06/30/18		RESTEK, Lot A0123630		(Purchased Reagent)		2,4,6-Trichlorophenol	100 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
SG HerbwkSurr_00044	07/16/18	04/16/18	Methanol, Lot 5248086	500 mL	SGDCAAFA_00054	1 mL	2,4-Dichlorophenylacetic acid (Surr)	2 ug/mL
.SGDCAAFA_00054	10/16/18		Restek, Lot A0128506		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SG HIBLK_00063	11/08/18	05/08/18	MTBE, Lot A0380840	50 mL	DCAAME_00011	500 uL	2,4-Dichlorophenylacetic acid (Surr)	1.004 ug/mL
.DCAAME_00011	11/08/18		Ultra Scientific, Lot CP-4762		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	100.4 ug/mL
SGHERB-1_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.04 mL	3,5-Dichlorobenzoic acid	0.01 ug/mL
							4-Nitrophenol	0.01 ug/mL
							Acifluorfen	0.01 ug/mL
							Bentazon	0.01 ug/mL
							Chloramben	0.01 ug/mL
							DCPA	0.01 ug/mL
							2,4,5-T	0.0025 ug/mL
							2,4-D	0.01 ug/mL
							2,4-DB	0.01 ug/mL
							Dalapon	0.01 ug/mL
							Dicamba	0.005 ug/mL
							Dichlorprop	0.01 ug/mL
							Dinoseb	0.01 ug/mL
							MCPA	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1 ug/mL
							Pentachlorophenol	0.0025 ug/mL
							Picloram	0.01 ug/mL
							Silvex (2,4,5-TP)	0.0025 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.01 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-2_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.1 mL	3,5-Dichlorobenzoic acid	0.025 ug/mL
							4-Nitrophenol	0.025 ug/mL
							Acifluorfen	0.025 ug/mL
							Bentazon	0.025 ug/mL
							Chloramben	0.025 ug/mL
							DCPA	0.025 ug/mL
							2,4,5-T	0.00625 ug/mL
							2,4-D	0.025 ug/mL
							2,4-DB	0.025 ug/mL
							Dalapon	0.025 ug/mL
							Dicamba	0.0125 ug/mL
							Dichlorprop	0.025 ug/mL
							Dinoseb	0.025 ug/mL
							MCPA	2.5 ug/mL
							MCPP	2.5 ug/mL
							Pentachlorophenol	0.00625 ug/mL
							Picloram	0.025 ug/mL
							Silvex (2,4,5-TP)	0.00625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.025 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-3_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.2 mL	3,5-Dichlorobenzoic acid	0.05 ug/mL
							4-Nitrophenol	0.05 ug/mL
							Acifluorfen	0.05 ug/mL
							Bentazon	0.05 ug/mL
							Chloramben	0.05 ug/mL
							DCPA	0.05 ug/mL
							2,4,5-T	0.0125 ug/mL
							2,4-D	0.05 ug/mL
							2,4-DB	0.05 ug/mL
							Dalapon	0.05 ug/mL
							Dicamba	0.025 ug/mL
							Dichlorprop	0.05 ug/mL
							Dinoseb	0.05 ug/mL
							MCPA	5 ug/mL
							MCPP	5 ug/mL
							Pentachlorophenol	0.0125 ug/mL
							Picloram	0.05 ug/mL
							Silvex (2,4,5-TP)	0.0125 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.05 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-4_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	25 mL	SGHERBCALINT_00030	1 mL	3,5-Dichlorobenzoic acid	0.1 ug/mL
							4-Nitrophenol	0.1 ug/mL
							Acifluorfen	0.1 ug/mL
							Bentazon	0.1 ug/mL
							Chloramben	0.1 ug/mL
							DCPA	0.1 ug/mL
							2,4,5-T	0.025 ug/mL
							2,4-D	0.1 ug/mL
							2,4-DB	0.1 ug/mL
							Dalapon	0.1 ug/mL
							Dicamba	0.05 ug/mL
							Dichlorprop	0.1 ug/mL
							Dinoseb	0.1 ug/mL
							MCPA	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	10 ug/mL
							Pentachlorophenol	0.025 ug/mL
							Picloram	0.1 ug/mL
							Silvex (2,4,5-TP)	0.025 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.1 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-5_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHERBCALINT_00030	3.5 mL	3,5-Dichlorobenzoic acid	0.175 ug/mL
							4-Nitrophenol	0.175 ug/mL
							Acifluorfen	0.175 ug/mL
							Bentazon	0.175 ug/mL
							Chloramben	0.175 ug/mL
							DCPA	0.175 ug/mL
							2,4,5-T	0.04375 ug/mL
							2,4-D	0.175 ug/mL
							2,4-DB	0.175 ug/mL
							Dalapon	0.175 ug/mL
							Dicamba	0.0875 ug/mL
							Dichlorprop	0.175 ug/mL
							Dinoseb	0.175 ug/mL
							MCPA	17.5 ug/mL
							MCPP	17.5 ug/mL
							Pentachlorophenol	0.04375 ug/mL
							Picloram	0.175 ug/mL
							Silvex (2,4,5-TP)	0.04375 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.175 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-6_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	1 mL	3,5-Dichlorobenzoic acid	0.25 ug/mL
							4-Nitrophenol	0.25 ug/mL
							Acifluorfen	0.25 ug/mL
							Bentazon	0.25 ug/mL
							Chloramben	0.25 ug/mL
							DCPA	0.25 ug/mL
							2,4,5-T	0.0625 ug/mL
							2,4-D	0.25 ug/mL
							2,4-DB	0.25 ug/mL
							Dalapon	0.25 ug/mL
							Dicamba	0.125 ug/mL
							Dichlorprop	0.25 ug/mL
							Dinoseb	0.25 ug/mL
							MCPA	25 ug/mL
							MCPP	25 ug/mL
							Pentachlorophenol	0.0625 ug/mL
							Picloram	0.25 ug/mL
							Silvex (2,4,5-TP)	0.0625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.25 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-7_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	2 mL	3,5-Dichlorobenzoic acid	0.5 ug/mL
							4-Nitrophenol	0.5 ug/mL
							Acifluorfen	0.5 ug/mL
							Bentazon	0.5 ug/mL
							Chloramben	0.5 ug/mL
							DCPA	0.5 ug/mL
							2,4,5-T	0.125 ug/mL
							2,4-D	0.5 ug/mL
							2,4-DB	0.5 ug/mL
							Dalapon	0.5 ug/mL
							Dicamba	0.25 ug/mL
							Dichlorprop	0.5 ug/mL
							Dinoseb	0.5 ug/mL
							MCPA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	50 ug/mL
							Pentachlorophenol	0.125 ug/mL
							Picloram	0.5 ug/mL
							Silvex (2,4,5-TP)	0.125 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.5 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-8_00011	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	4 mL	3,5-Dichlorobenzoic acid	1 ug/mL
							4-Nitrophenol	1 ug/mL
							Acifluorfen	1 ug/mL
							Bentazon	1 ug/mL
							Chloramben	1 ug/mL
							DCPA	1 ug/mL
							2,4,5-T	0.25 ug/mL
							2,4-D	1 ug/mL
							2,4-DB	1 ug/mL
							Dalapon	1 ug/mL
							Dicamba	0.5 ug/mL
							Dichlorprop	1 ug/mL
							Dinoseb	1 ug/mL
							MCPA	100 ug/mL
							MCPP	100 ug/mL
							Pentachlorophenol	0.25 ug/mL
							Picloram	1 ug/mL
							Silvex (2,4,5-TP)	0.25 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	1 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERBICV_00014	06/30/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBICVINT_00037	700 uL	2,4,5-T	0.04375 ug/mL
							2,4-D	0.175 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.175 ug/mL
.SGHERBICVINT_00037	06/30/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBICVINT_00035	10 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBICVINT_00036	10 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBICVINT_00035	06/30/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBMASTER_00033	2.5 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBMASTER_00033	06/30/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHerbList1_00007	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00008	0.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00011	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
....SGHerbList1_00007	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00011	11/05/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBICVINT_00036	06/30/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBMASTER_00033	2.5 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBMASTER_00033	06/30/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHerbList1_00007	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00008	0.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00011	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
....SGHerbList1_00007	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00011	11/05/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL

Reagent

DCAAME_00011

Certificate of Analysis

DCAA Methyl Ester Solution

Product Number: PPS-161 **Page:** 1 of 1

Lot Number: CP-4762 **Lot Issue Date:** 20-Sep-2016 **Expiration Date:** 31-Oct-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
DCAA methyl ester	055954-23-9	RM03071	100.0 ± 0.5 µg/mL

Matrix: methyl tert-butyl ether (MTBE)

Storage: Store at Room Temperature (15° to 30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Vincent Wang, Ph.D.
Director of QA/RA

ISO 9001
Registered
TUV USA, Inc.

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Reagent

SGDCAAFA_00054

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567804 **Lot No.:** A0128506

Description : DCAA Standard

DCAA Standard 1,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4-dichlorophenylacetic acid	1,007.0 µg/mL	+/- 5.9813 µg/mL	Gravimetric
	CAS # 19719-28-9 (Lot S30618V)		+/- 53.5730 µg/mL	Unstressed
	Purity 99%		+/- 53.6627 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

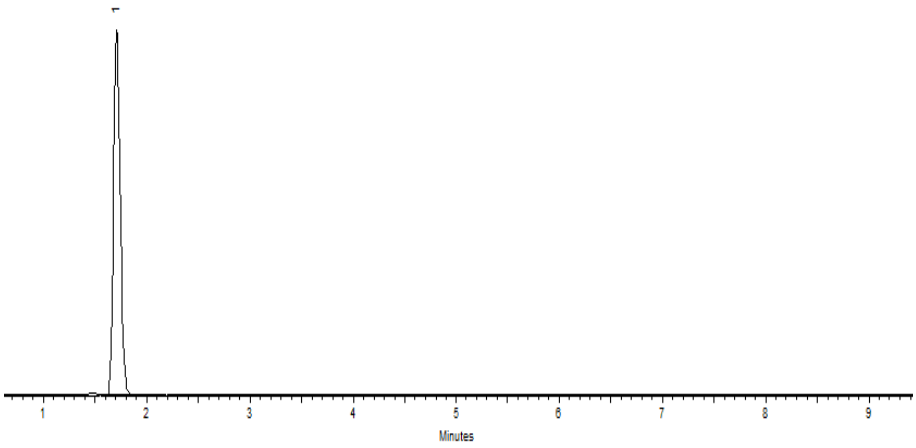
Flow Rate:
1.0 ml/min.

Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 15-Jun-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jun-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGDCAAFA_00064

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567804 **Lot No.:** A0132641

Description : DCAA Standard

DCAA Standard 1,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4-dichlorophenylacetic acid	1,000.8 µg/mL	+/- 5.8733	µg/mL	Gravimetric
	CAS # 19719-28-9 (Lot S30618V)		+/- 53.2353	µg/mL	Unstressed
	Purity 99%		+/- 53.3244	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

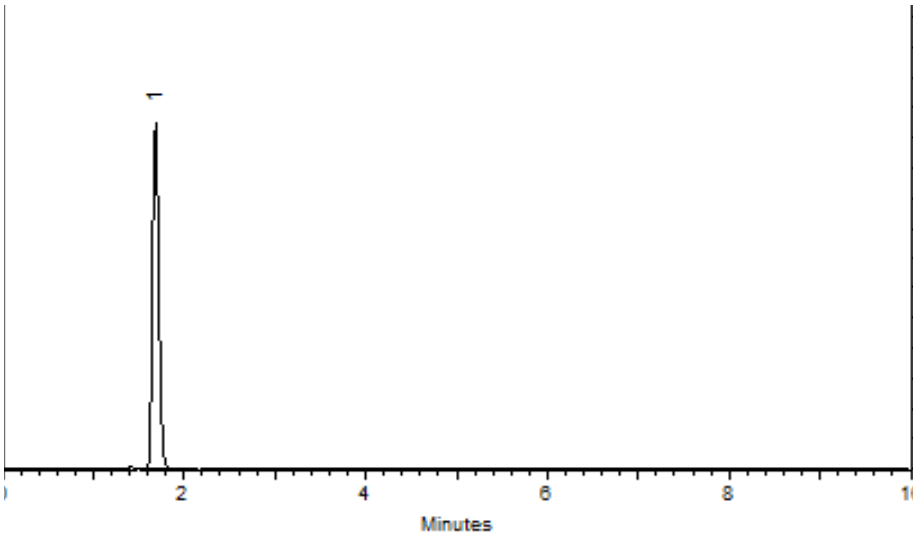
Flow Rate:
1.0 ml/min.

Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 21-Nov-2017 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Nov-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHERBADDICV_00013

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570473.SEC **Lot No.:** A0123922

Description : Custom Herbicide Additions Standard

Custom Herbicide Additions Standard 100-200 µg/mL, Acetonitrile, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,6-Trichlorophenol	100.0 µg/mL	+/- 0.7088 µg/mL	Gravimetric
	CAS # 88-06-2.SEC (Lot UUMYM)		+/- 5.3320 µg/mL	Unstressed
	Purity 98%		+/- 5.3409 µg/mL	Stressed
2	2,6-Dichlorophenol	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 87-65-0.SEC (Lot SIDBB)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
3	3,5-Dichlorobenzoic acid	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 51-36-5.SEC (Lot 00823)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
4	4-Nitrophenol	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 100-02-7.SEC (Lot 2J5LB)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
5	Acifluorfen (blazer)	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 50594-66-6.SEC (Lot 30619)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	Bentazon	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 25057-89-0.SEC (Lot 90723)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
7	Chloramben	199.9 µg/mL	+/- 1.4176 µg/mL	Gravimetric
	CAS # 133-90-4.SEC (Lot PSJUA)		+/- 10.6640 µg/mL	Unstressed
	Purity 98%		+/- 10.6818 µg/mL	Stressed

8	DCPA diacid (tetrachloroterephthalic acid)		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 2136-79-0.SEC	(Lot 3931400)			+/-	10.7216	µg/mL	Unstressed
	Purity ----%				+/-	10.7395	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Brandon Reish - Mix Technician

Date Mixed: 04-Jan-2017 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbICV1_00005

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

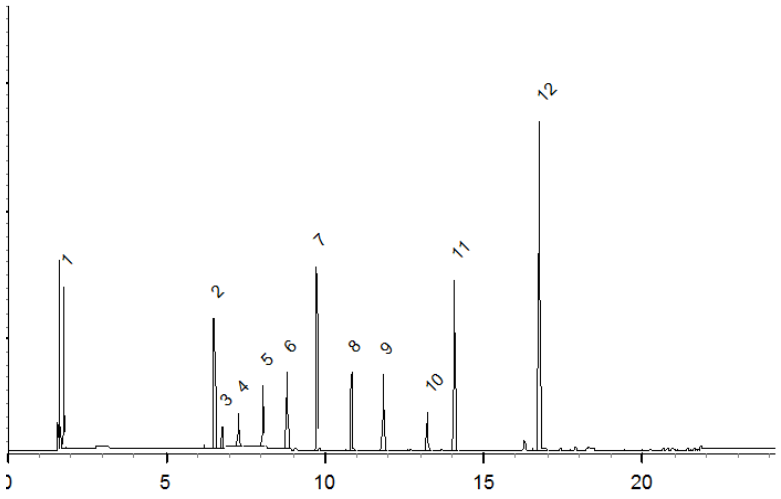
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

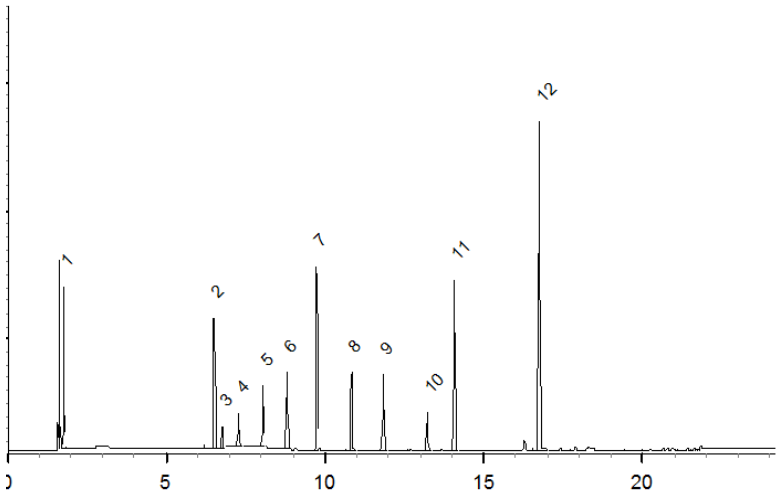
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
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Manufacturing Notes:

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Handling Notes:

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Reagent

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)			50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS #	93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity	99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T			50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS #	93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity	99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB			201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS #	94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity	99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb			200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS #	88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity	99%				+/-	10.6860	µg/mL	Stressed
12	Picloram			200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS #	1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity	99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

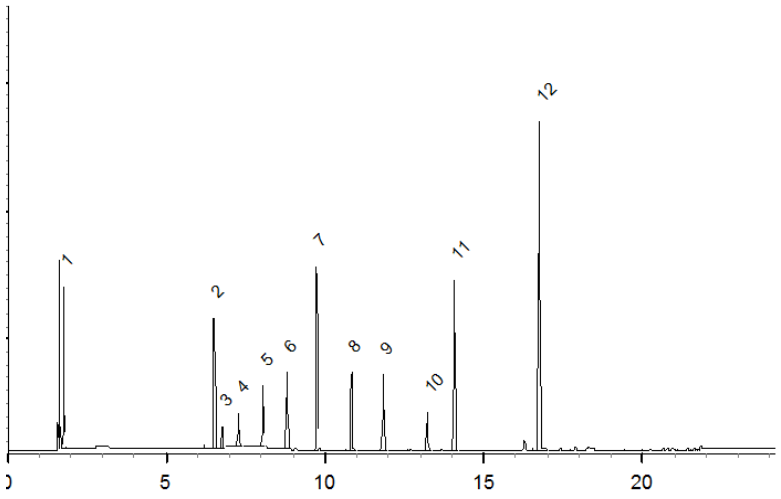
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

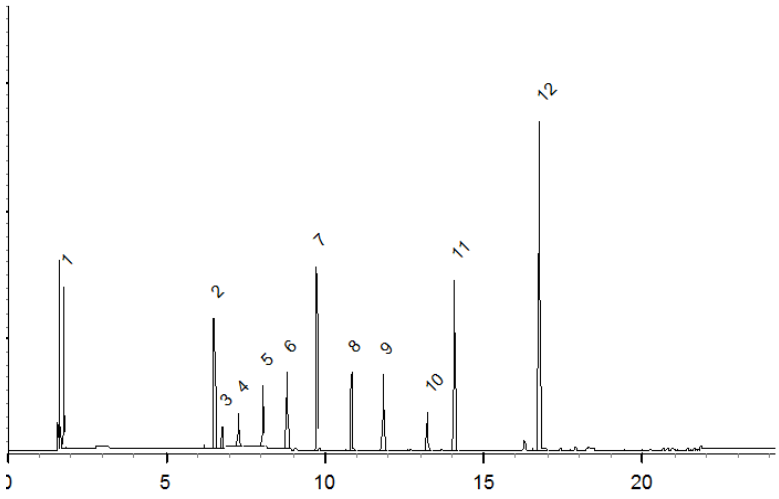
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00006

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Dalapon		200.3	µg/mL	+/-	1.4203	µg/mL	Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/-	10.6847	µg/mL	Unstressed
	Purity 95%				+/-	10.7025	µg/mL	Stressed
2	Dicamba		100.2	µg/mL	+/-	0.7105	µg/mL	Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/-	5.3451	µg/mL	Unstressed
	Purity 98%				+/-	5.3540	µg/mL	Stressed
3	MCPP (Mecoprop)		20,035.0	µg/mL	+/-	117.3093	µg/mL	Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/-	1,065.6864	µg/mL	Unstressed
	Purity 99%				+/-	1,067.4715	µg/mL	Stressed
4	MCPA		20,020.8	µg/mL	+/-	117.2262	µg/mL	Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/-	1,064.9311	µg/mL	Unstressed
	Purity 96%				+/-	1,066.7149	µg/mL	Stressed
5	Dichlorprop		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
6	2,4-D		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
7	Pentachlorophenol		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed

8	2,4,5-TP (silvex)			50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS #	93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity	99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T			50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS #	93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity	99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB			201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS #	94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity	99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb			202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS #	88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity	99%				+/-	10.7929	µg/mL	Stressed
12	Picloram			200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS #	1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity	99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

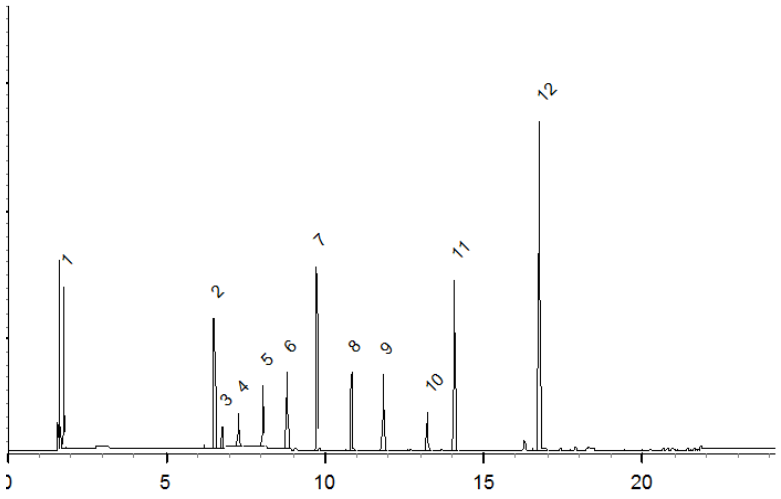
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Purity values are rounded to the nearest whole number.

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- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00007

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Dalapon		200.3	µg/mL	+/-	1.4203	µg/mL	Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/-	10.6847	µg/mL	Unstressed
	Purity 95%				+/-	10.7025	µg/mL	Stressed
2	Dicamba		100.2	µg/mL	+/-	0.7105	µg/mL	Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/-	5.3451	µg/mL	Unstressed
	Purity 98%				+/-	5.3540	µg/mL	Stressed
3	MCPP (Mecoprop)		20,035.0	µg/mL	+/-	117.3093	µg/mL	Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/-	1,065.6864	µg/mL	Unstressed
	Purity 99%				+/-	1,067.4715	µg/mL	Stressed
4	MCPA		20,020.8	µg/mL	+/-	117.2262	µg/mL	Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/-	1,064.9311	µg/mL	Unstressed
	Purity 96%				+/-	1,066.7149	µg/mL	Stressed
5	Dichlorprop		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
6	2,4-D		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
7	Pentachlorophenol		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

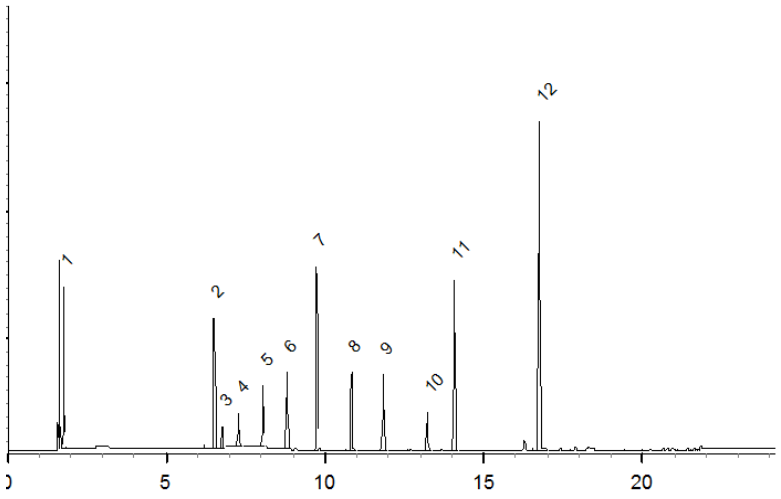
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



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Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

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Reagent

SGHerbList1_00008

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Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.3 µg/mL	+/- 1.4203 µg/mL		Gravimetric
	CAS # 75-99-0	(Lot 4819200)		+/- 10.6847 µg/mL		Unstressed
	Purity 95%			+/- 10.7025 µg/mL		Stressed
2	Dicamba		100.2 µg/mL	+/- 0.7105 µg/mL		Gravimetric
	CAS # 1918-00-9	(Lot 3357300)		+/- 5.3451 µg/mL		Unstressed
	Purity 98%			+/- 5.3540 µg/mL		Stressed
3	MCPP (Mecoprop)		20,035.0 µg/mL	+/- 117.3093 µg/mL		Gravimetric
	CAS # 93-65-2	(Lot PB041700)		+/- 1,065.6864 µg/mL		Unstressed
	Purity 99%			+/- 1,067.4715 µg/mL		Stressed
4	MCPA		20,020.8 µg/mL	+/- 117.2262 µg/mL		Gravimetric
	CAS # 94-74-6	(Lot 4868000)		+/- 1,064.9311 µg/mL		Unstressed
	Purity 96%			+/- 1,066.7149 µg/mL		Stressed
5	Dichlorprop		200.0 µg/mL	+/- 1.4182 µg/mL		Gravimetric
	CAS # 120-36-5	(Lot 3684800)		+/- 10.6683 µg/mL		Unstressed
	Purity 99%			+/- 10.6860 µg/mL		Stressed
6	2,4-D		201.0 µg/mL	+/- 1.4253 µg/mL		Gravimetric
	CAS # 94-75-7	(Lot 4457200)		+/- 10.7216 µg/mL		Unstressed
	Purity 99%			+/- 10.7395 µg/mL		Stressed
7	Pentachlorophenol		50.5 µg/mL	+/- 0.3581 µg/mL		Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)		+/- 2.6937 µg/mL		Unstressed
	Purity 99%			+/- 2.6982 µg/mL		Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

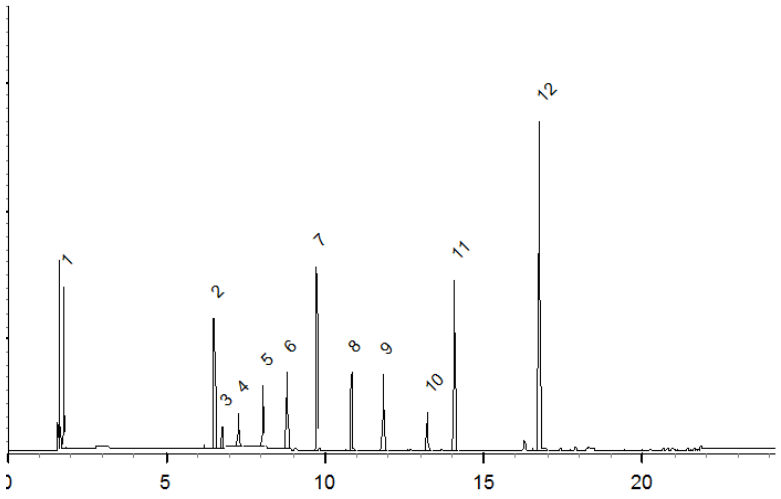
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00011

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.3 µg/mL		+/- 1.4203 µg/mL		Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/- 10.6847 µg/mL		Unstressed
	Purity 95%				+/- 10.7025 µg/mL		Stressed
2	Dicamba		100.2 µg/mL		+/- 0.7105 µg/mL		Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/- 5.3451 µg/mL		Unstressed
	Purity 98%				+/- 5.3540 µg/mL		Stressed
3	MCPP (Mecoprop)		20,035.0 µg/mL		+/- 117.3093 µg/mL		Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/- 1,065.6864 µg/mL		Unstressed
	Purity 99%				+/- 1,067.4715 µg/mL		Stressed
4	MCPA		20,020.8 µg/mL		+/- 117.2262 µg/mL		Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/- 1,064.9311 µg/mL		Unstressed
	Purity 96%				+/- 1,066.7149 µg/mL		Stressed
5	Dichlorprop		200.0 µg/mL		+/- 1.4182 µg/mL		Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/- 10.6683 µg/mL		Unstressed
	Purity 99%				+/- 10.6860 µg/mL		Stressed
6	2,4-D		201.0 µg/mL		+/- 1.4253 µg/mL		Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/- 10.7216 µg/mL		Unstressed
	Purity 99%				+/- 10.7395 µg/mL		Stressed
7	Pentachlorophenol		50.5 µg/mL		+/- 0.3581 µg/mL		Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/- 2.6937 µg/mL		Unstressed
	Purity 99%				+/- 2.6982 µg/mL		Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

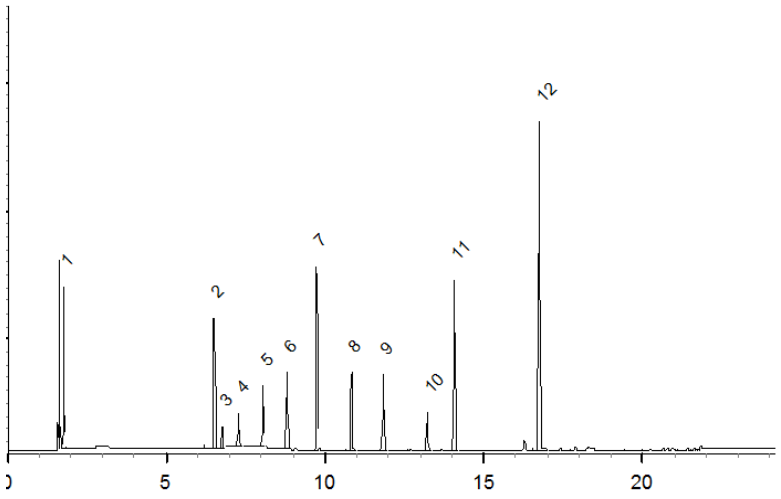
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHMCCALFA_00040

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570473 **Lot No.:** A0123630

Description : Custom Herbicide Additions Standard

Custom Herbicide Additions Standard 100-200 µg/mL, Acetonitrile, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,6-Trichlorophenol	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 88-06-2 (Lot MKBL4698V)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
2	2,6-Dichlorophenol	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 87-65-0 (Lot MKBP8620V)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
3	3,5-Dichlorobenzoic acid	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 51-36-5 (Lot 08004EH)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
4	4-Nitrophenol	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKBV0501V)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
5	Acifluorfen (blazer)	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 50594-66-6 (Lot 83-46A)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	Bentazon	199.9 µg/mL	+/- 1.4176 µg/mL	Gravimetric
	CAS # 25057-89-0 (Lot 2735000)		+/- 10.6640 µg/mL	Unstressed
	Purity 98%		+/- 10.6818 µg/mL	Stressed
7	Chloramben	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 133-90-4 (Lot 83-49A)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed

8	DCPA diacid (tetrachloroterephthalic acid)		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 2136-79-0	(Lot DWL0462)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%



Date Mixed: 20-Dec-2016 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Method 8151 DOD

Herbicides (GC) by Method 8151A DOD

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-35MS ID: 0.32(mm)

Client Sample ID	Lab Sample ID	DCPAA1 #
GQ007	680-151914-1	109
GQ008	680-151914-2	85
GQ009	680-151914-3	102
	MB 680-522541/10-A	52
	LCS 680-522541/11-A	54

	QC LIMITS
DCPAA = 2,4-Dichlorophenylacetic acid (Surr)	27-122

Column to be used to flag recovery values

FORM II 8151A DOD

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: SE080031.D

Lab ID: LCS 680-522541/11-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2,4,5-T	16.3	8.90	54	31-138	
2,4-D	65.4	44.5	68	28-144	

Column to be used to flag recovery and RPD values

FORM III 8151A DOD

FORM IV
HERBICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: MB 680-522541/10-A

Matrix: Solid Date Extracted: 05/03/2018 11:22

Lab File ID:(1) SE080030.D Lab File ID:(2) SE080030.D

Date Analyzed:(1) 05/08/2018 22:19 Date Analyzed:(2) 05/08/2018 22:19

Instrument ID:(1) CSGS Instrument ID:(2) CSGS

GC Column:(1) DB-35MS ID: 0.32(mm) GC Column:(2) DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-522541/11-A	05/08/2018 22:38	05/08/2018 22:38
GQ007	680-151914-1	05/08/2018 23:56	05/08/2018 23:56
GQ008	680-151914-2	05/09/2018 00:16	05/09/2018 00:16
GQ009	680-151914-3	05/09/2018 00:35	05/09/2018 00:35

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 680-522541/11-A

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/08/2018 22:38 Date Analyzed (2): 05/08/2018 22:38

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.52	7.51	7.53	44.5		20.5
	2		7.32	7.32	7.34	54.7		
2,4,5-T	1		8.08	8.07	8.09	8.90		5.2
	2		7.92	7.92	7.94	9.37		

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: GQ007 | Lab Sample ID: 680-151914-1

Matrix: Solid | Lab File ID: SE080035.D

Analysis Method: 8151A DOD | Date Collected: 04/25/2018 11:00

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.01(g) | Date Analyzed: 05/08/2018 23:56

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 4.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.5	U	8.7	4.5	2.4
94-75-7	2,4-D	8.7	U M	8.7	8.7	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	109		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080035.D				
Lims ID:	680-151914-A-1-A				
Client ID:	GQ007				
Sample Type:	Client				
Inject. Date:	08-May-2018 23:56:31	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-035				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:30:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.682	6.683	-0.001	35058942	0.1658	
2	6.830	6.829	0.001	306474967	0.2177	
					RPD = 27.08	

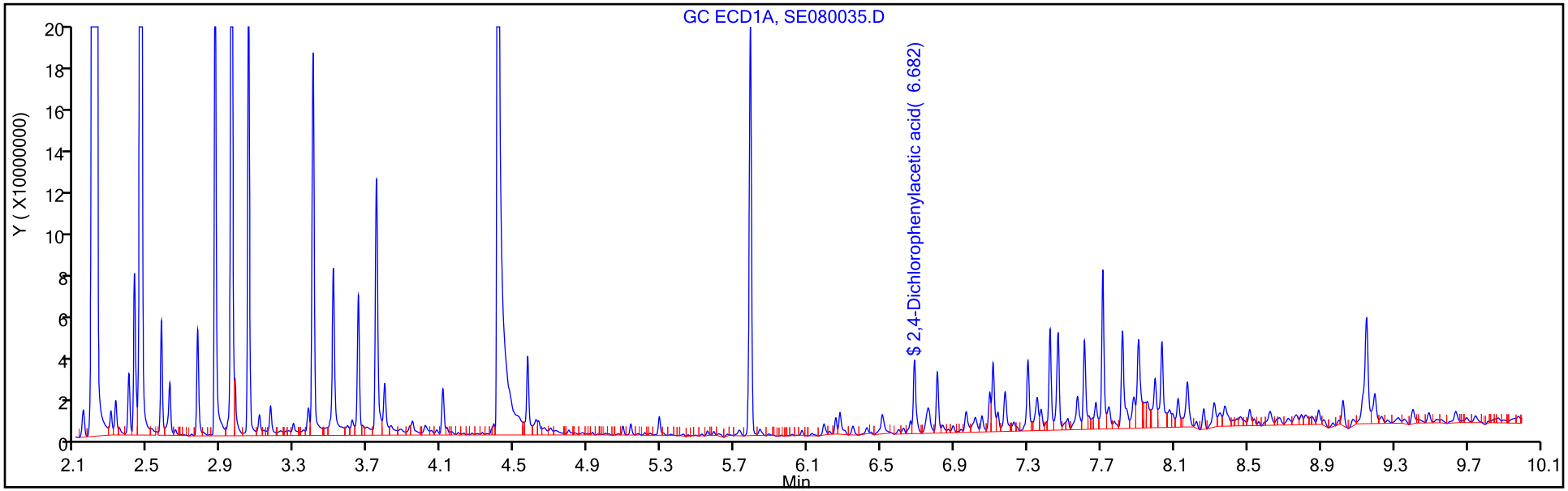
Report Date: 09-May-2018 09:37:12 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

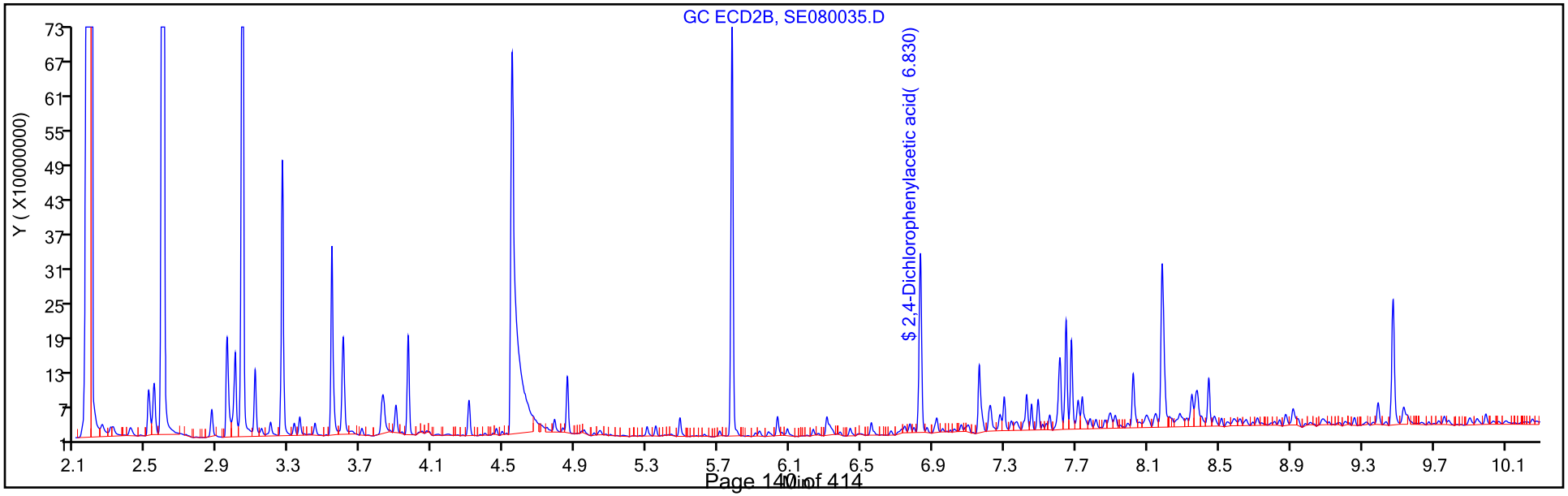
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080035.D

Injection Date:	08-May-2018 23:56:31	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151914-A-1-A	Lab Sample ID:	680-151914-1	Worklist Smp#:	35
Client ID:	GQ007				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080035.D				
Lims ID:	680-151914-A-1-A				
Client ID:	GQ007				
Sample Type:	Client				
Inject. Date:	08-May-2018 23:56:31	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-035				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:30:27		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1658	82.89

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.2177	108.85

User Disabled Compound Report

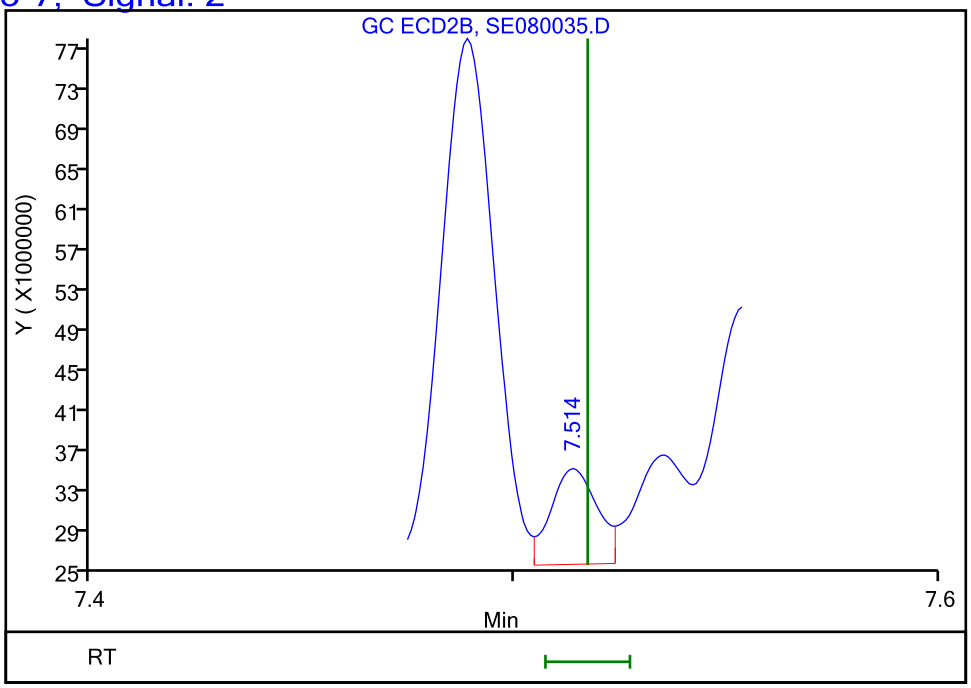
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080035.D

Injection Date:	08-May-2018 23:56:31	Instrument ID:	CSGS		
Lims ID:	680-151914-A-1-A	Lab Sample ID:	680-151914-1		
Client ID:	GQ007				
Operator ID:	GEM	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7, Signal: 2

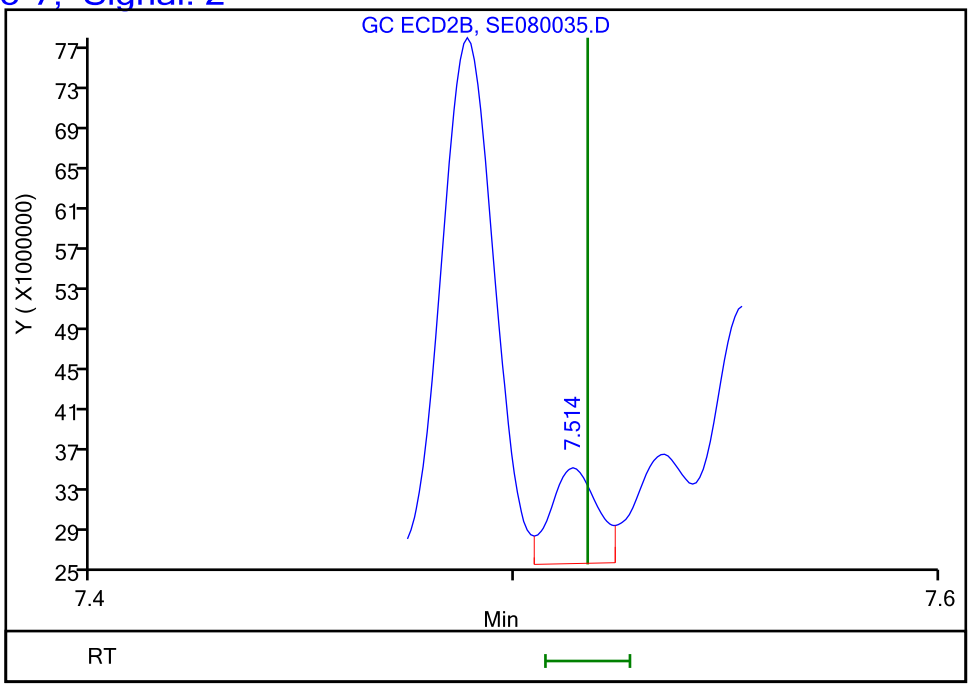
RT: 7.51
Response: 7245205
Amount: 0.004547



Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.51
Response: 7245205
Amount: 0.004547



Reviewer: kellarj, 09-May-2018 09:30:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: GQ008 | Lab Sample ID: 680-151914-2

Matrix: Solid | Lab File ID: SE080036.D

Analysis Method: 8151A DOD | Date Collected: 04/25/2018 11:05

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.03(g) | Date Analyzed: 05/09/2018 00:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 2.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.4	U	8.5	4.4	2.4
94-75-7	2,4-D	8.5	U	8.5	8.5	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	85		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080036.D				
Lims ID:	680-151914-A-2-A				
Client ID:	GQ008				
Sample Type:	Client				
Inject. Date:	09-May-2018 00:16:08	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-036				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:30:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.683	6.683	0.000	20905478	0.0989	
2	6.831	6.829	0.002	238538873	0.1694	
					RPD = 52.62	

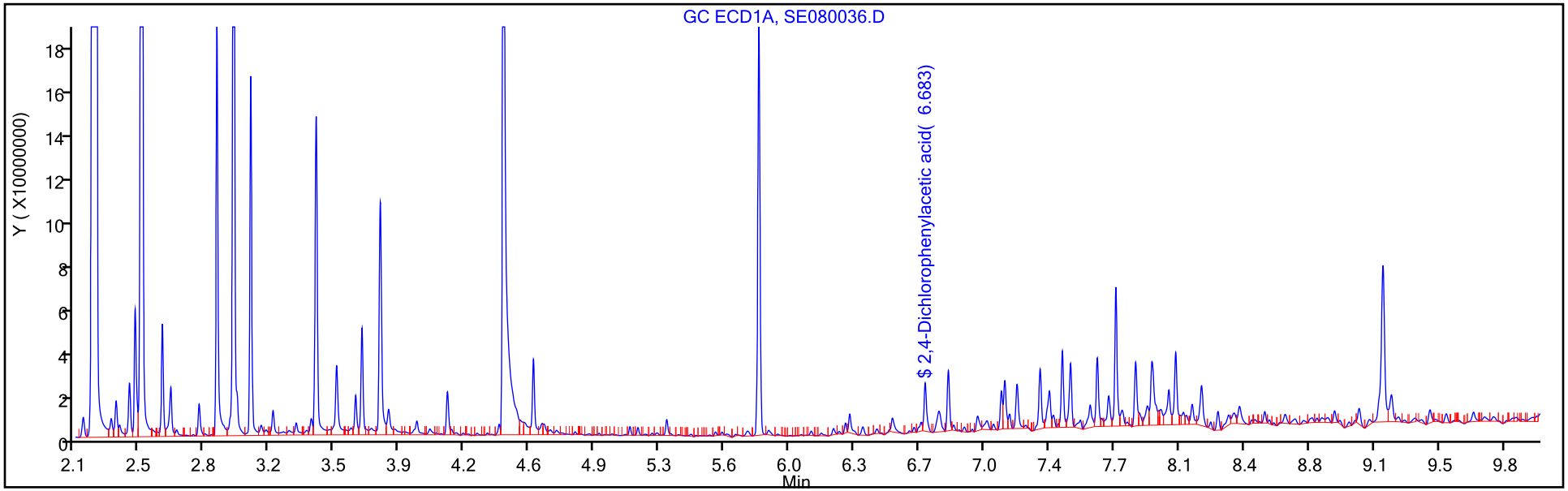
Report Date: 09-May-2018 09:37:09 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

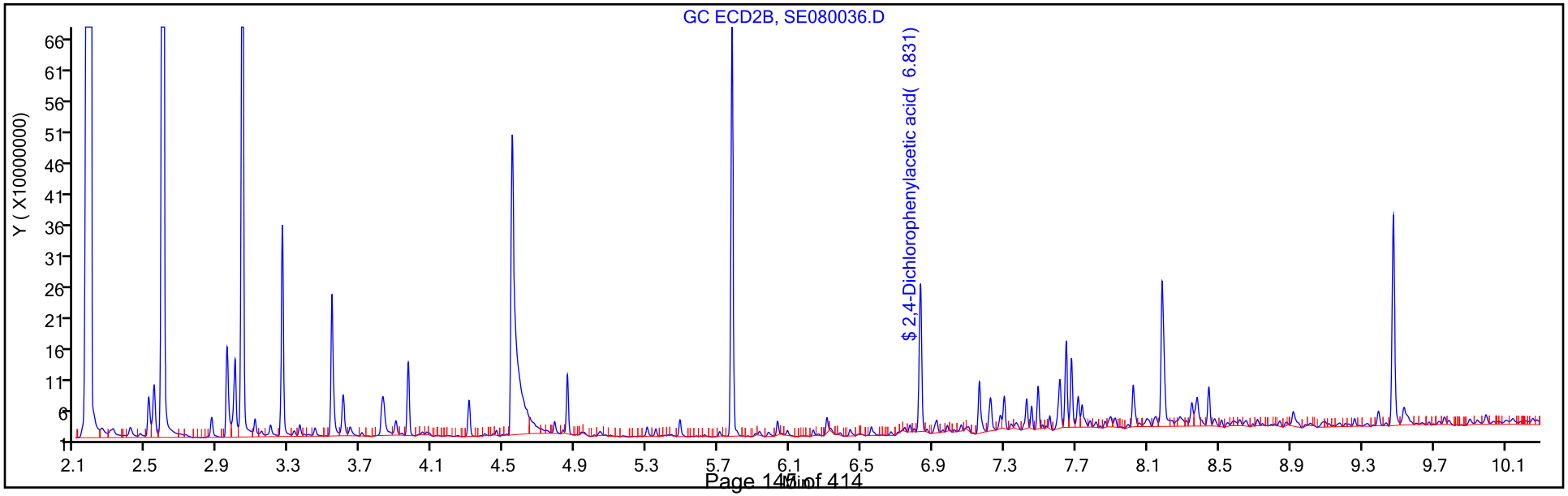
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080036.D

Injection Date:	09-May-2018 00:16:08	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151914-A-2-A	Lab Sample ID:	680-151914-2	Worklist Smp#:	36
Client ID:	GQ008				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080036.D				
Lims ID:	680-151914-A-2-A				
Client ID:	GQ008				
Sample Type:	Client				
Inject. Date:	09-May-2018 00:16:08	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-036				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:30:35		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0989	49.43

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1694	84.72

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: GQ009 | Lab Sample ID: 680-151914-3

Matrix: Solid | Lab File ID: SE080037.D

Analysis Method: 8151A DOD | Date Collected: 04/25/2018 11:10

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.03(g) | Date Analyzed: 05/09/2018 00:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 3.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.5	U	8.6	4.5	2.4
94-75-7	2,4-D	8.6	U M	8.6	8.6	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	102		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080037.D				
Lims ID:	680-151914-A-3-A				
Client ID:	GQ009				
Sample Type:	Client				
Inject. Date:	09-May-2018 00:35:33	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-037				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:30:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.683	6.683	0.000	26796852	0.1267	
2	6.831	6.829	0.002	288023153	0.2046	
					RPD = 47.02	

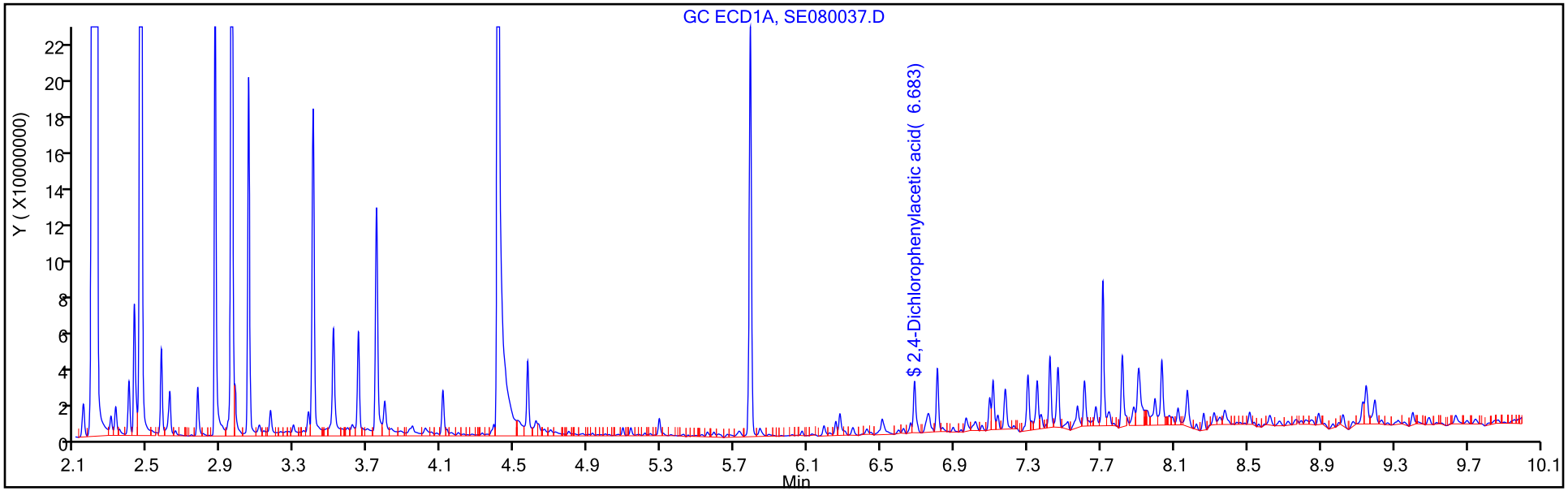
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TestAmerica Savannah

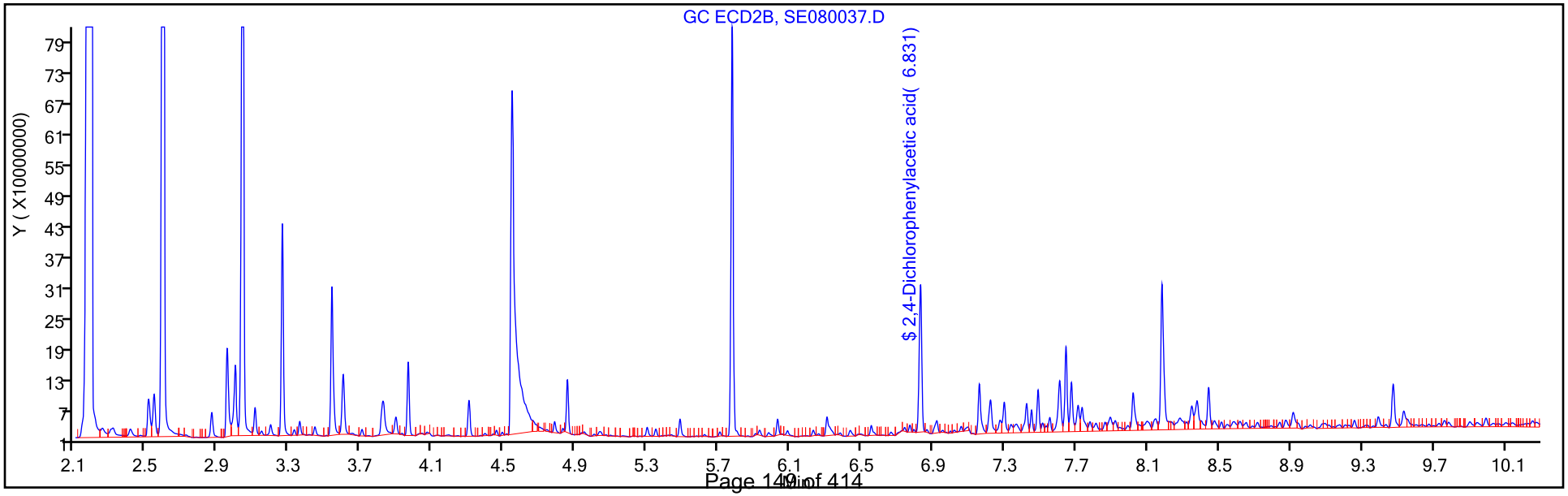
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080037.D

Injection Date:	09-May-2018 00:35:33	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151914-A-3-A	Lab Sample ID:	680-151914-3	Worklist Smp#:	37
Client ID:	GQ009				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080037.D				
Lims ID:	680-151914-A-3-A				
Client ID:	GQ009				
Sample Type:	Client				
Inject. Date:	09-May-2018 00:35:33	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-037				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:30:44		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1267	63.36

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.2046	102.30

User Disabled Compound Report

TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080037.D

Injection Date: 09-May-2018 00:35:33 Instrument ID: CSGS

Lims ID: 680-151914-A-3-A Lab Sample ID: 680-151914-3

Client ID: GQ009

Operator ID: GEM ALS Bottle#: 37 Worklist Smp#: 37

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

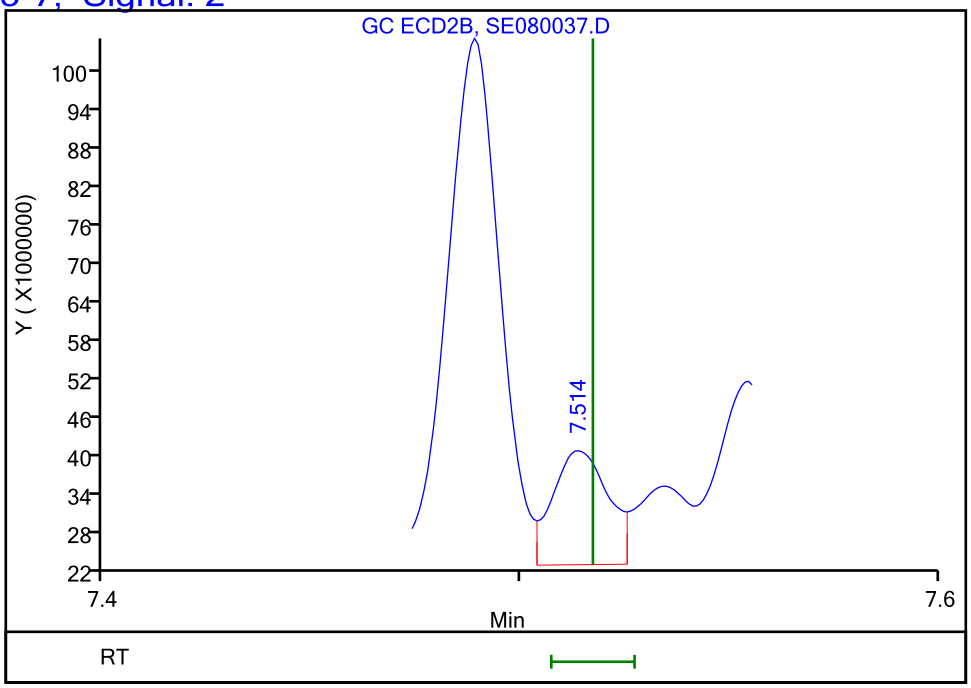
Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.51

Response: 16504213

Amount: 0.010357



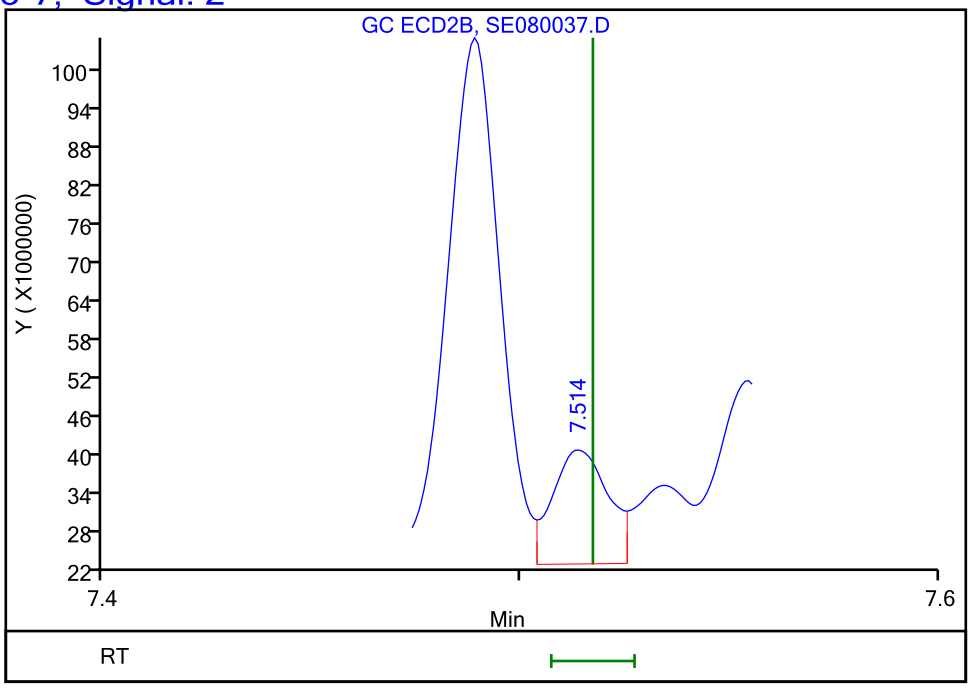
Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.51

Response: 16504213

Amount: 0.010357



Reviewer: kellarj, 09-May-2018 09:30:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	2.580	2.580	2.579	+++++	2.579	2.580	2.580	2.580			2.559 - 2.599	2.580
3,5-Dichlorobenzoic acid	6.126	6.125	6.124	+++++	6.123	6.123	6.123	6.123			6.114 - 6.134	6.124
4-Nitrophenol	6.263	6.258	6.254	+++++	6.251	6.251	6.250	6.250			6.243 - 6.263	6.254
Dicamba	6.721	6.720	6.721	+++++	6.721	6.721	6.720	6.721			6.710 - 6.730	6.721
MCPP	6.868	6.867	6.866	+++++	6.868	6.868	6.870	6.872			6.857 - 6.877	6.868
MCPA	6.996	6.995	6.994	+++++	6.994	6.995	6.996	7.000			6.984 - 7.004	6.996
Dichlorprop	7.182	7.182	7.181	+++++	7.181	7.181	7.180	7.181			7.170 - 7.190	7.181
2,4-D	7.346	7.337	7.331	+++++	7.324	7.323	7.322	7.323			7.316 - 7.336	7.329
Pentachlorophenol	7.674	7.673	7.674	+++++	7.673	7.674	7.674	7.675			7.664 - 7.684	7.674
Silvex (2,4,5-TP)	7.776	7.771	7.771	+++++	7.767	7.768	7.767	7.768			7.759 - 7.779	7.770
Chloramben	7.868	7.864	7.860	+++++	7.852	7.850	7.849	7.848			7.845 - 7.865	7.856
2,4,5-T	7.937	7.935	7.933	+++++	7.925	7.924	7.922	7.923			7.919 - 7.939	7.928
2,4-DB	8.185	8.182	8.178	+++++	8.171	8.169	8.167	8.167			8.165 - 8.185	8.174
Dinoseb	8.227	8.225	8.225	+++++	8.222	8.223	8.223	8.224			8.214 - 8.234	8.224
Bentazon	8.306	8.304	8.301	+++++	8.299	8.299	8.299	8.299			8.290 - 8.310	8.301
Picloram	8.546	8.538	8.533	+++++	8.526	8.525	8.523	8.523			8.519 - 8.539	8.531
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.626	8.625	8.624	+++++	8.623	8.623	8.625	8.626			8.613 - 8.633	8.625
Acifluorfen	9.670	9.668	9.667	+++++	9.665	9.665	9.665	9.667			9.656 - 9.676	9.667
2,4-Dichlorophenylacetic acid (Surr)	6.685	6.684	6.683	+++++	6.683	6.683	6.683	6.683			6.673 - 6.693	6.683

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	590623000 501343863	548749400 505359752	505816280 505630140	+++++ 511012321	Ave		524076394				6.4		20.0			
3,5-Dichlorobenzoic acid	320222900 310170354	325925160 324153844	302358360 330009804	+++++ 337068861	Ave		321415612				3.7		20.0			
4-Nitrophenol	71198600 97415017	92280320 107969032	84618080 96163496	+++++ 97562965	Ave		92458215.7				12.6		20.0			
Dicamba	1069269000 1046294606	1056001840 1085307760	981963600 1129742140	+++++ 1170487746	Ave		1077009527				5.6		20.0			
MCPP	383358 493718	515556 507506	513185 781805	+++++ 1043440	Qua	-375682.35	455494.134	5947.60489						0.9990		0.9900
MCPA	684536 1015244	855075 1035632	874696 1031921	+++++ 984673	Ave		925968.148				14.0		20.0			
Dichlorprop	269946200 274910263	274874480 282466000	261287600 288126840	+++++ 290874356	Ave		277497963				3.8		20.0			
2,4-D	240093400 309104989	269609520 325959236	270573020 344276094	+++++ 357181097	Ave		302399622				14.4		20.0			
Pentachlorophenol	4403400800 5421816411	4723432800 5716695024	4804851680 6102875736	+++++ 6514196396	Ave		5383895550				14.5		20.0			
Silvex (2,4,5-TP)	1412480800 1934512549	1589272800 2084549792	1624198880 2215309200	+++++ 2290775776	Ave		1878728542				18.1		20.0			
Chloramben	1014630400 1540114857	1125919240 1683249404	1201713680 1896110694	+++++ 2124806109	Qua	-18666594	1661493099	484746839						1.0000		0.9900
2,4,5-T	2273542000 2137927269	2222943840 2214469440	2125359040 2194574216	+++++ 2188067564	Ave		2193840481				2.3		20.0			
2,4-DB	95715600 148913017	106659600 167659108	115257020 191517264	+++++ 208315295	Qua	-2436902.3	172002569	39193472.8						0.9990		0.9900
Dinoseb	1080237600 1186151777	1085648760 1272822120	1065912980 1373798070	+++++ 1502700567	Ave		1223895982				13.7		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Bentazon	316467700 271492754	279450640 287045072	274389100 288476476	+++++ 295542031	Ave		287551968				5.3		20.0			
Picloram	1624991300 2449319440	1765360320 2701195528	1895185740 3103274140	+++++ 3668133130	Qua	-26505316	2539444890	1158759739						1.0000		0.9900
Tetraphthalic acid, tetrachloro-, dimethyl	2893947000 3231119337	3086549440 3370780948	3028981420 3593631444	+++++ 3847093339	Ave		3293157561				10.2		20.0			
Acifluorfen	1819999100 2329574200	1959295600 2532153916	1944516240 2764112324	+++++ 3202033523	Qua	-14470608	2348239053	869421475						1.0000		0.9900
2,4-Dichlorophenylacetic acid (Surr)	232590900 200079320	221537720 204599376	196434220 210440590	+++++ 214663766	Ave		211477985				6.0		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Ave	5906230 126339938	13718735 252815070	25290814 511012321	+++++	87735176	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
3,5-Dichlorobenzoic acid	Ave	3202229 81038461	8148129 165004902	15117918 337068861	+++++	54279812	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
4-Nitrophenol	Ave	711986 26992258	2307008 48081748	4230904 97562965	+++++	17047628	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dicamba	Ave	5346345 135663470	13200023 282435535	24549090 585243873	+++++	91550778	0.00500 0.125	0.0125 0.250	0.0250 0.500	+++++	0.0875
MCPP	Qua	383358 12687646	1288891 39090261	2565927 104343971	+++++	8640069	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
MCPA	Ave	684536 25890792	2137688 51596040	4373482 98467290	+++++	17766771	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
Dichlorprop	Ave	2699462 70616500	6871862 144063420	13064380 290874356	+++++	48109296	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4-D	Ave	2400934 81489809	6740238 172138047	13528651 357181097	+++++	54093373	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Pentachlorophenol	Ave	11008502 357293439	29521455 762859467	60060646 1628549099	+++++	237204468	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Silvex (2,4,5-TP)	Ave	3531202 130284362	9932955 276913650	20302486 572693944	+++++	84634924	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Chloramben	Qua	10146304 420812351	28147981 948055347	60085684 2124806109	+++++	269520100	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4,5-T	Ave	5683855 138404340	13893399 274321777	26566988 547016891	+++++	93534318	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
2,4-DB	Qua	957156 41914777	2666490 95758632	5762851 208315295	+++++	26059778	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dinoseb	Ave	10802376 318205530	27141219 686899035	53295649 1502700567	+++++	207576561	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Bentazon	Ave	3164677 71761268	6986266 144238238	13719455 295542031	+++++	47511232	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Picloram	Qua	16249913 675298882	44134008 1551637070	94759287 3668133130	+++++	428630902	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	28939470 842695237	77163736 1796815722	151449071 3847093339	+++++	565445884	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Acifluorfen	Qua	18199991 633038479	48982390 1382056162	97225812 3202033523	+++++	407675485	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	2325909 51149844	5538443 105220295	9821711 214663766	+++++	35013881	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

Curve Type Legend:

Ave = Average
Qua = Quadratic

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-May-2018 11:58:00 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:24:59 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:07:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	511012321	1.00	0.9751	
2	2.635	2.632	0.003	1725206867	1.00	1.07	
						RPD = 9.32	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	95938059	NC	NC	
2	5.103	5.102	0.001	555849594	NC	NC	
						RPD = 4.71	
3 2,4,6-Trichlorophenol							
1	5.788	5.786	0.002	1387562807	NC	NC	
2	5.780	5.776	0.004	5355785086	NC	NC	
						RPD = 10.60	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	337068861	1.00	1.05	
2	6.118	6.116	0.002	1954171685	1.00	1.09	
						RPD = 3.63	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	97562965	1.00	1.06	
2	6.503	6.505	-0.002	334991246	1.00	1.12	
						RPD = 5.98	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	214663766	1.00	1.02	
2	6.831	6.829	0.002	1537345376	1.00	1.09	
						RPD = 7.31	
7 Dicamba							
1	6.721	6.720	0.001	585243873	0.5000	0.5434	
2	6.914	6.910	0.004	2806366329	0.5000	0.5603	
						RPD = 3.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.872	6.867	0.005	104343971	100.0	99.8	
2	6.960	6.955	0.005	444937631	100.0	101.1	
						RPD = 1.25	
9 MCPA							
1	7.000	6.994	0.006	98467290	100.0	106.3	
2	7.161	7.155	0.006	1151515629	100.0	100.2	
						RPD = 5.90	
10 Dichlorprop							
1	7.181	7.180	0.001	290874356	1.00	1.05	
2	7.300	7.297	0.003	1571966456	1.00	1.12	
						RPD = 6.18	
11 2,4-D							
1	7.323	7.326	-0.003	357181097	1.00	1.18	
2	7.517	7.517	0.000	1888747044	1.00	1.19	
						RPD = 0.35	
12 Pentachlorophenol							
1	7.675	7.674	0.001	1628549099	0.2500	0.3025	
2	7.718	7.714	0.004	5004401348	0.2500	0.2661	
						RPD = 12.81	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	572693944	0.2500	0.3048	
2	7.848	7.846	0.002	2191601950	0.2500	0.2965	
						RPD = 2.77	
14 Chloramben							
1	7.848	7.855	-0.007	2124806109	1.00	1.00	
2	8.161	8.162	-0.001	6392220091	1.00	1.14	
						RPD = 12.86	
15 2,4,5-T							
1	7.923	7.929	-0.006	547016891	0.2500	0.2493	
2	8.082	8.083	-0.001	2066383005	0.2500	0.3109	
						RPD = 21.97	
16 2,4-DB							
1	8.167	8.175	-0.008	208315295	1.00	1.00	
2	8.298	8.302	-0.004	1002259721	1.00	1.02	
						RPD = 1.78	
17 Dinoseb							
1	8.224	8.224	0.000	1502700567	1.00	1.23	
2	8.252	8.248	0.004	4922703086	1.00	1.07	
						RPD = 13.86	
18 Bentazon							
1	8.299	8.300	-0.001	295542031	1.00	1.03	
2	8.664	8.662	0.002	907942100	1.00	1.13	
						RPD = 9.41	
19 Picloram							M
1	8.523	8.529	-0.006	3668133130	1.00	1.00	
2	9.011	9.005	0.006	11467491007	1.00	1.03	M
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	3847093339	1.00	1.17	
2	8.784	8.775	0.009	9887348056	1.00	1.01	
						RPD = 14.85	
21 Acifluorfen							M
1	9.667	9.666	0.001	3202033523	1.00	1.00	
2	9.799	9.792	0.007	9631196972	1.00	0.8404	M
						RPD = 17.32	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

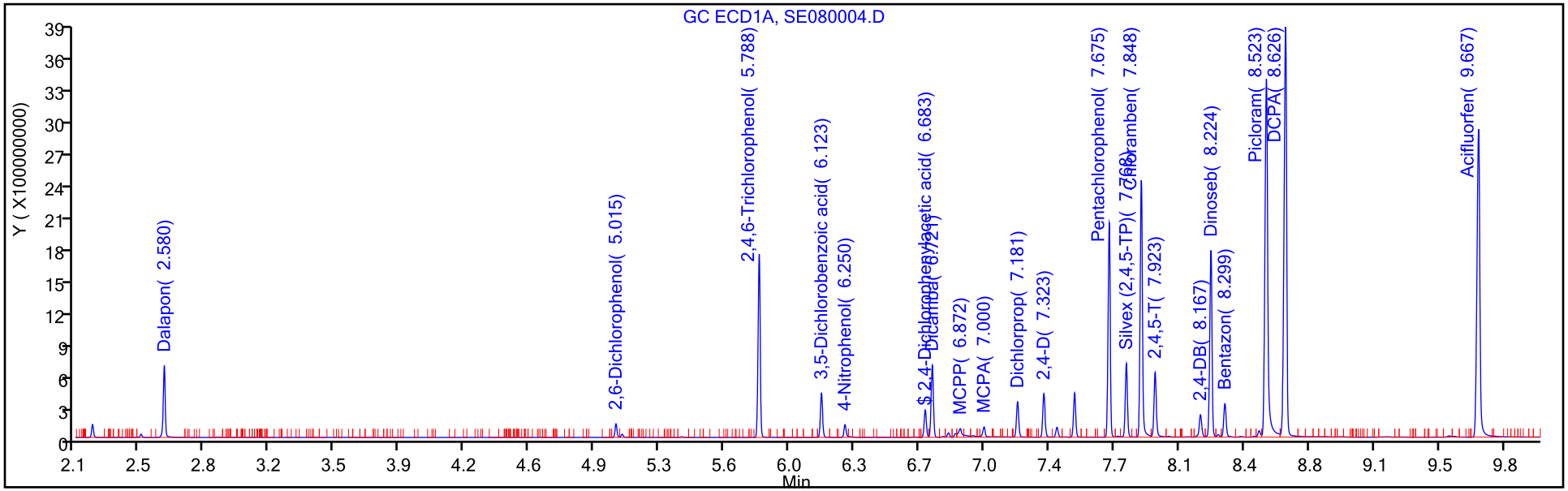
Report Date: 08-May-2018 16:25:00 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

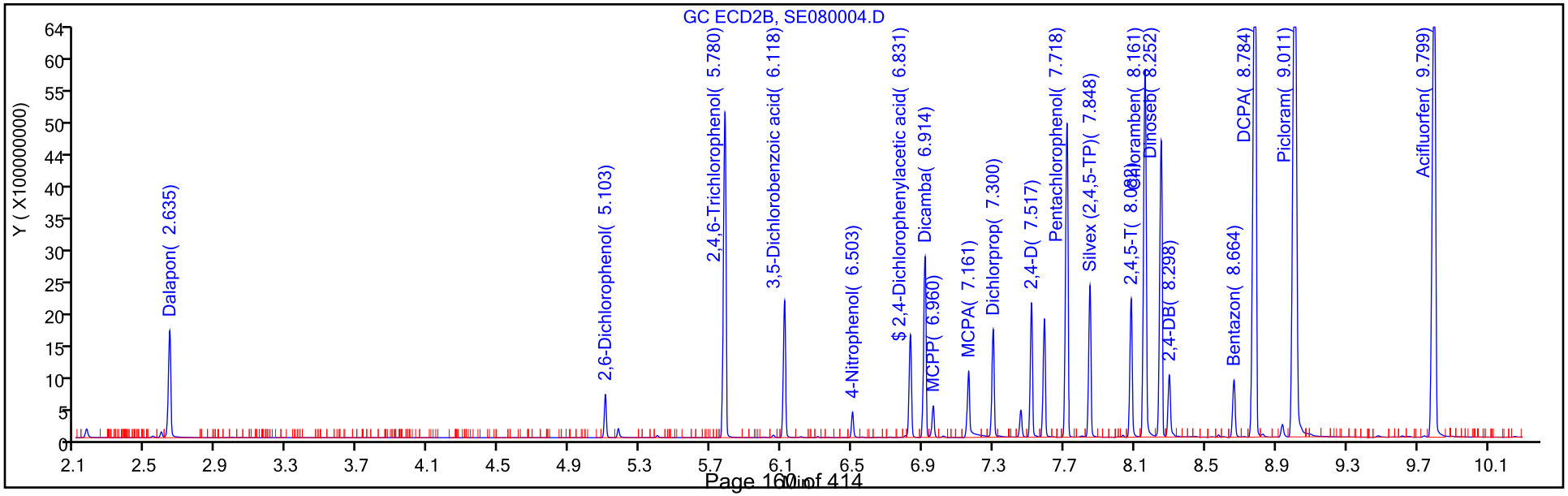
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D

Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-May-2018 12:17:37 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:07 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	252815070	0.5000	0.4824	
2	2.634	2.632	0.002	817578391	0.5000	0.5073	
						RPD = 5.02	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	47948482	NC	NC	
2	5.102	5.102	0.000	271150549	NC	NC	
						RPD = 2.29	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	660797633	NC	NC	
2	5.779	5.776	0.003	2813586787	NC	NC	
						RPD = 0.79	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	165004902	0.5000	0.5134	
2	6.116	6.116	0.000	930526789	0.5000	0.5178	
						RPD = 0.87	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	48081748	0.5000	0.5200	
2	6.503	6.505	-0.002	158696116	0.5000	0.5307	
						RPD = 2.03	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	105220295	0.5000	0.4975	
2	6.830	6.829	0.001	717491043	0.5000	0.5097	
						RPD = 2.41	
7 Dicamba							
1	6.720	6.720	0.000	282435535	0.2500	0.2622	
2	6.911	6.910	0.001	1347001642	0.2500	0.2689	
						RPD = 2.51	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.870	6.867	0.003	39090261	50.0	51.7	
2	6.957	6.955	0.002	205635557	50.0	46.2	
						RPD = 11.18	
9 MCPA							
1	6.996	6.994	0.002	51596040	50.0	55.7	
2	7.157	7.155	0.002	386345329	50.0	47.9	
						RPD = 14.99	
10 Dichlorprop							
1	7.180	7.180	0.000	144063420	0.5000	0.5192	
2	7.298	7.297	0.001	719800477	0.5000	0.5106	
						RPD = 1.67	
11 2,4-D							
1	7.322	7.326	-0.004	172138047	0.5000	0.5692	
2	7.515	7.517	-0.002	885627489	0.5000	0.5558	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	762859467	0.1250	0.1417	
2	7.716	7.714	0.002	2634537256	0.1250	0.1401	
						RPD = 1.15	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	276913650	0.1250	0.1474	
2	7.846	7.846	0.000	1061020220	0.1250	0.1435	
						RPD = 2.64	
14 Chloramben							
1	7.849	7.855	-0.006	948055347	0.5000	0.5069	
2	8.160	8.162	-0.002	3398296359	0.5000	0.6041	
						RPD = 17.50	
15 2,4,5-T							
1	7.922	7.929	-0.007	274321777	0.1250	0.1250	
2	8.080	8.083	-0.003	974569507	0.1250	0.1466	
						RPD = 15.89	
16 2,4-DB							
1	8.167	8.175	-0.008	95758632	0.5000	0.5113	
2	8.297	8.302	-0.005	474832365	0.5000	0.4814	
						RPD = 6.02	
17 Dinoseb							
1	8.223	8.224	-0.001	686899035	0.5000	0.5612	
2	8.250	8.248	0.002	2438912841	0.5000	0.5329	
						RPD = 5.19	
18 Bentazon							
1	8.299	8.300	-0.001	144238238	0.5000	0.5016	
2	8.663	8.662	0.001	439887803	0.5000	0.5471	
						RPD = 8.68	
19 Picloram							
1	8.523	8.529	-0.006	1551637070	0.5000	0.5051	
2	9.005	9.005	0.000	5780160796	0.5000	0.5230	
						RPD = 3.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	1796815722	0.5000	0.5456	
2	8.779	8.775	0.004	5536696155	0.5000	0.5638	
						RPD = 3.27	
21 Acifluorfen							
1	9.665	9.666	-0.001	1382056162	0.5000	0.5016	
2	9.794	9.792	0.002	4770908516	0.5000	0.4992	
						RPD = 0.48	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

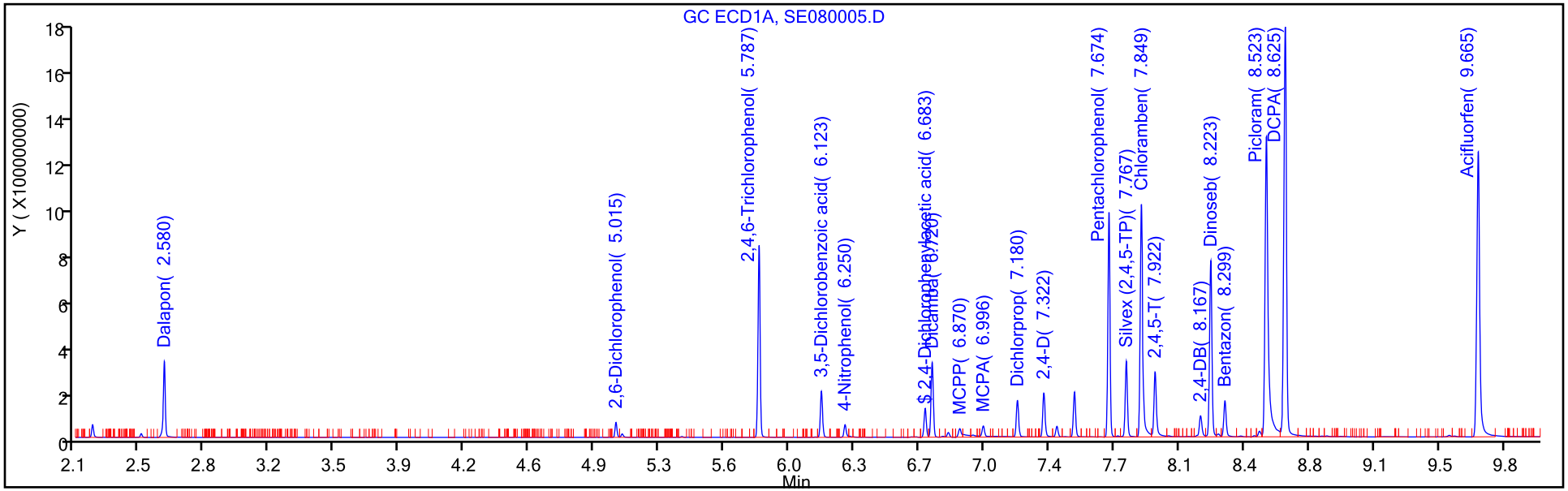
Report Date: 08-May-2018 16:25:08 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

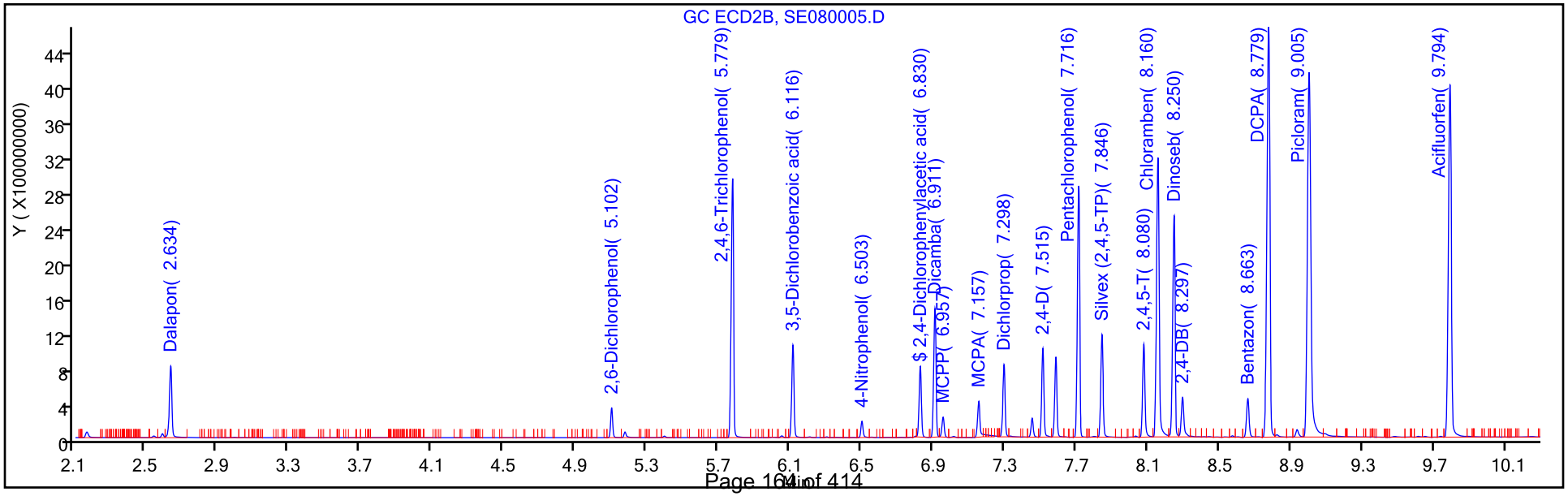
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D

Injection Date:	08-May-2018 12:17:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-May-2018 12:37:18 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:13 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	126339938	0.2500	0.2411	
2	2.633	2.632	0.001	395304302	0.2500	0.2453	
						RPD = 1.72	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	24075005	NC	NC	
2	5.102	5.102	0.000	134909465	NC	NC	
						RPD = 1.37	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	317115758	NC	NC	
2	5.778	5.776	0.002	1376798630	NC	NC	
						RPD = 1.15	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	81038461	0.2500	0.2521	
2	6.117	6.116	0.001	448811682	0.2500	0.2498	
						RPD = 0.94	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	26992258	0.2500	0.2919	
2	6.503	6.505	-0.002	77606749	0.2500	0.2595	
						RPD = 11.76	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	51149844	0.2500	0.2419	
2	6.829	6.829	0.000	353488120	0.2500	0.2511	
						RPD = 3.75	
7 Dicamba							
1	6.721	6.720	0.001	135663470	0.1250	0.1260	
2	6.911	6.910	0.001	650915415	0.1250	0.1299	
						RPD = 3.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	12687646	25.0	22.2	
2	6.956	6.955	0.001	111381364	25.0	24.6	
						RPD = 10.33	
9 MCPA							
1	6.995	6.994	0.001	25890792	25.0	28.0	
2	7.155	7.155	0.000	177192173	25.0	26.6	
						RPD = 4.94	
10 Dichlorprop							
1	7.181	7.180	0.001	70616500	0.2500	0.2545	
2	7.298	7.297	0.001	352257271	0.2500	0.2499	
						RPD = 1.83	
11 2,4-D							
1	7.323	7.326	-0.003	81489809	0.2500	0.2695	
2	7.516	7.517	-0.001	419247494	0.2500	0.2631	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	357293439	0.0625	0.0664	
2	7.715	7.714	0.001	1280290405	0.0625	0.0681	
						RPD = 2.54	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	130284362	0.0625	0.0693	
2	7.846	7.846	0.000	500698059	0.0625	0.0677	
						RPD = 2.34	
14 Chloramben							
1	7.850	7.855	-0.005	420812351	0.2500	0.2467	
2	8.159	8.162	-0.003	1585218711	0.2500	0.2818	
						RPD = 13.26	
15 2,4,5-T							
1	7.924	7.929	-0.005	138404340	0.0625	0.0631	
2	8.079	8.083	-0.004	450029272	0.0625	0.0677	
						RPD = 7.07	
16 2,4-DB							
1	8.169	8.175	-0.006	41914777	0.2500	0.2443	
2	8.298	8.302	-0.004	234527590	0.2500	0.2378	
						RPD = 2.69	
17 Dinoseb							
1	8.223	8.224	-0.001	318205530	0.2500	0.2600	
2	8.248	8.248	0.000	1104528845	0.2500	0.2450	
						RPD = 5.93	
18 Bentazon							
1	8.299	8.300	-0.001	71761268	0.2500	0.2496	
2	8.661	8.662	-0.001	209189101	0.2500	0.2602	
						RPD = 4.17	
19 Picloram							
1	8.525	8.529	-0.004	675298882	0.2500	0.2482	
2	9.005	9.005	0.000	2545447676	0.2500	0.2355	
						RPD = 5.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	842695237	0.2500	0.2559	
2	8.778	8.775	0.003	2733977251	0.2500	0.2784	
						RPD = 8.42	
21 Acifluorfen							
1	9.665	9.666	-0.001	633038479	0.2500	0.2522	
2	9.793	9.792	0.001	2098074459	0.2500	0.2582	
						RPD = 2.37	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

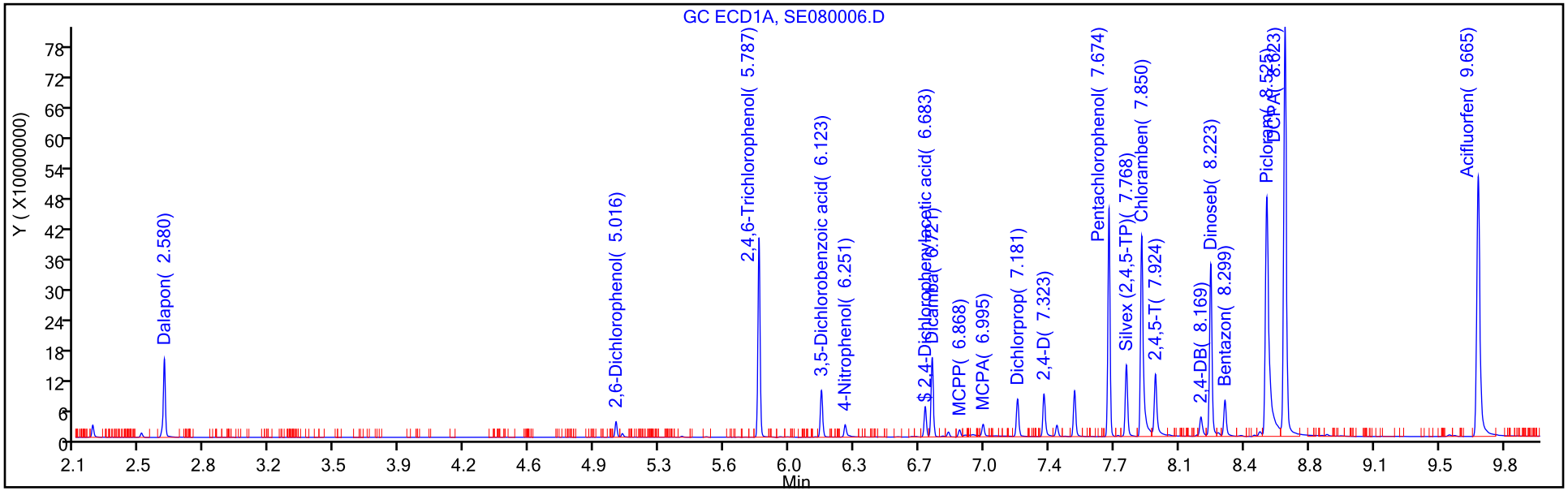
Report Date: 08-May-2018 16:25:14 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

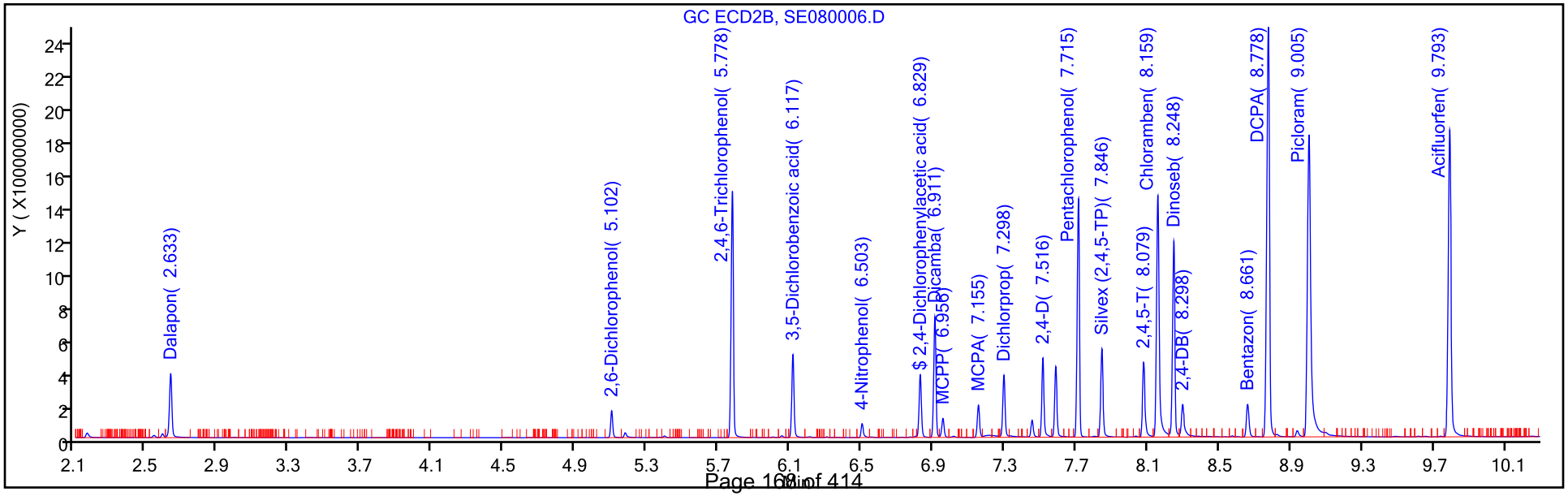
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Injection Date:	08-May-2018 12:37:18	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-May-2018 12:56:54 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:18 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: meinckeg Date: 08-May-2018 13:25:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	87735176	0.1750	0.1674	
2	2.633	2.632	0.001	265586882	0.1750	0.1648	
						RPD = 1.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16721808	NC	NC	
2	5.101	5.102	-0.001	91409134	NC	NC	
						RPD = 1.11	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	212201404	NC	NC	
2	5.776	5.776	0.000	921748528	NC	NC	
						RPD = 1.20	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	54279812	0.1750	0.1689	
2	6.116	6.116	0.000	300893318	0.1750	0.1674	
						RPD = 0.85	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	17047628	0.1750	0.1844	
2	6.504	6.505	-0.001	52193224	0.1750	0.1745	
						RPD = 5.49	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	35013881	0.1750	0.1656	
2	6.829	6.829	0.000	235040238	0.1750	0.1670	
						RPD = 0.84	
7 Dicamba							
1	6.721	6.720	0.001	91550778	0.0875	0.0850	
2	6.911	6.910	0.001	429620976	0.0875	0.0858	
						RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	8640069	17.5	16.3	
2	6.955	6.955	0.000	77011106	17.5	16.8	
						RPD = 2.77	
9 MCPA							
1	6.994	6.994	0.000	17766771	17.5	19.2	
2	7.153	7.155	-0.002	121752778	17.5	19.6	
						RPD = 2.31	
10 Dichlorprop							
1	7.181	7.180	0.001	48109296	0.1750	0.1734	
2	7.296	7.297	-0.001	231436814	0.1750	0.1642	
						RPD = 5.46	
11 2,4-D							
1	7.324	7.326	-0.002	54093373	0.1750	0.1789	
2	7.515	7.517	-0.002	272374787	0.1750	0.1709	
						RPD = 4.55	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	237204468	0.0438	0.0441	
2	7.713	7.714	-0.001	840761037	0.0438	0.0447	
						RPD = 1.45	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	84634924	0.0438	0.0450	
2	7.845	7.846	-0.001	324244276	0.0438	0.0439	
						RPD = 2.66	
14 Chloramben							
1	7.852	7.855	-0.003	269520100	0.1750	0.1655	
2	8.159	8.162	-0.003	1019151525	0.1750	0.1812	
						RPD = 9.06	
15 2,4,5-T							
1	7.925	7.929	-0.004	93534318	0.0438	0.0426	
2	8.080	8.083	-0.003	287476934	0.0438	0.0433	
						RPD = 1.44	
16 2,4-DB							
1	8.171	8.175	-0.004	26059778	0.1750	0.1599	
2	8.298	8.302	-0.004	166644052	0.1750	0.1690	
						RPD = 5.54	
17 Dinoseb							
1	8.222	8.224	-0.002	207576561	0.1750	0.1696	
2	8.246	8.248	-0.002	688241161	0.1750	0.1552	
						RPD = 8.85	
18 Bentazon							
1	8.299	8.300	-0.001	47511232	0.1750	0.1652	
2	8.661	8.662	-0.001	137471207	0.1750	0.1710	
						RPD = 3.43	
19 Picloram							
1	8.526	8.529	-0.003	428630902	0.1750	0.1666	
2	9.005	9.005	0.000	1548770490	0.1750	0.1470	
						RPD = 12.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	565445884	0.1750	0.1717	
2	8.776	8.775	0.001	1775677219	0.1750	0.1808	
						RPD = 5.16	
21 Acifluorfen							
1	9.665	9.666	-0.001	407675485	0.1750	0.1692	
2	9.791	9.792	-0.001	1244184045	0.1750	0.1664	
						RPD = 1.67	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

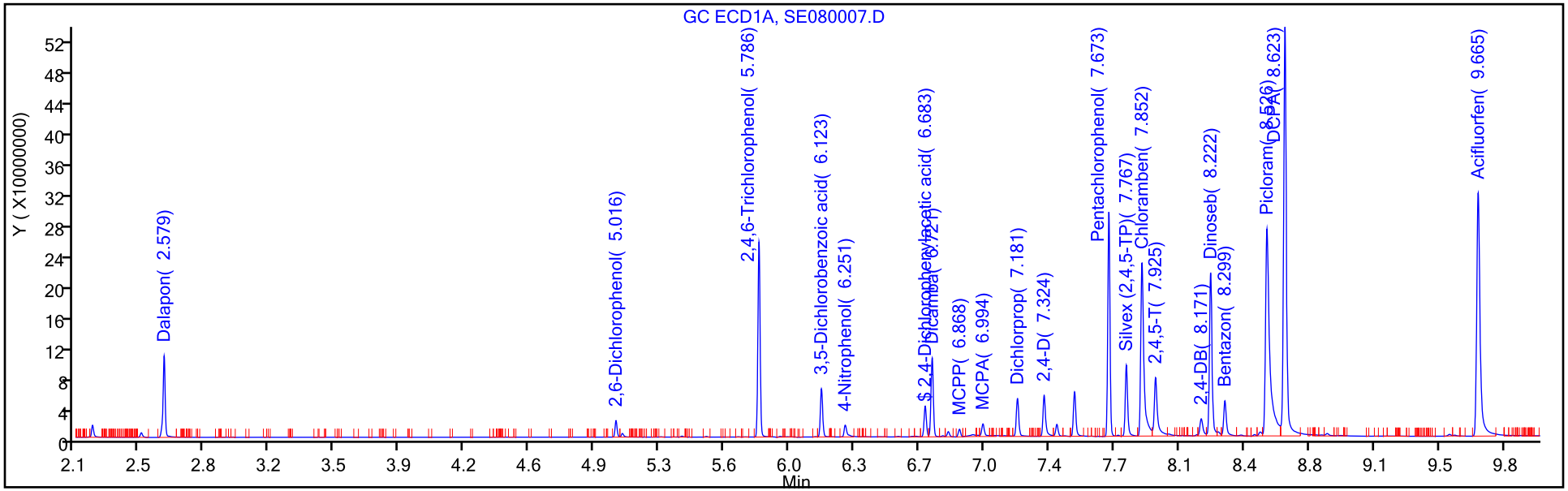
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TestAmerica Savannah

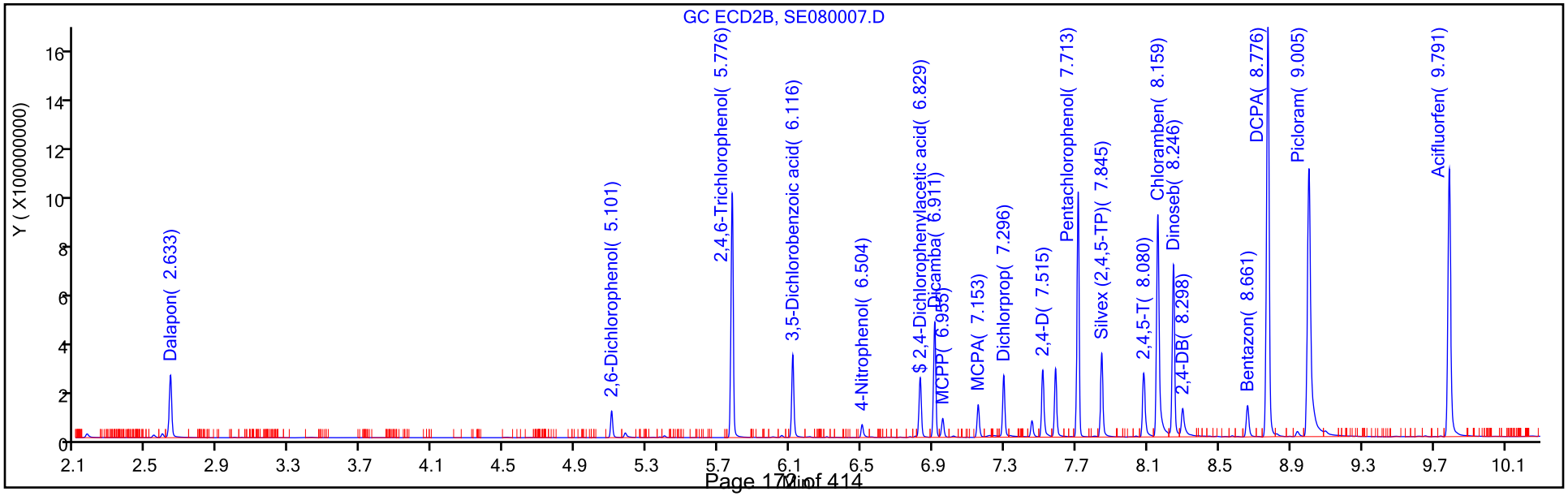
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Injection Date:	08-May-2018 12:56:54	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-May-2018 13:16:38 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:24 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	49026258	0.1000	0.0935	
2	2.632	2.632	0.000	144107629	0.1000	0.0894	
						RPD = 4.52	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	9648349	NC	NC	
2	5.102	5.102	0.000	51409780	NC	NC	
						RPD = 3.66	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	115367190	NC	NC	
2	5.776	5.776	0.000	492889358	NC	NC	
						RPD = 0.46	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	30442227	0.1000	0.0947	
2	6.116	6.116	0.000	163818500	0.1000	0.0912	
						RPD = 3.82	
5 4-Nitrophenol							
1	6.253	6.253	0.000	9830837	0.1000	0.1063	
2	6.505	6.505	0.000	28145758	0.1000	0.0941	
						RPD = 12.18	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	19553071	0.1000	0.0925	
2	6.829	6.829	0.000	126698158	0.1000	0.0900	
						RPD = 2.70	
7 Dicamba							
1	6.720	6.720	0.000	50221281	0.0500	0.0466	
2	6.910	6.910	0.000	229111440	0.0500	0.0457	
						RPD = 1.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	5032337	10.0	10.4	
2	6.955	6.955	0.000	44613118	10.0	9.35	
						RPD = 11.06	
9 MCPA							M
1	6.994	6.994	0.000	10021981	10.0	10.8	
2	7.155	7.155	0.000	72306759	10.0	12.6	M
						RPD = 15.16	
10 Dichlorprop							M
1	7.180	7.180	0.000	27204673	0.1000	0.0980	
2	7.297	7.297	0.000	128102012	0.1000	0.0909	M
						RPD = 7.59	
11 2,4-D							M
1	7.326	7.326	0.000	29475053	0.1000	0.0975	
2	7.517	7.517	0.000	145386532	0.1000	0.0912	M
						RPD = 6.61	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	126808590	0.0250	0.0236	
2	7.714	7.714	0.000	448807878	0.0250	0.0239	M
						RPD = 1.30	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	44774730	0.0250	0.0238	
2	7.846	7.846	0.000	170517091	0.0250	0.0231	M
						RPD = 3.25	
14 Chloramben							M
1	7.855	7.855	0.000	136550994	0.1000	0.0910	
2	8.162	8.162	0.000	528388568	0.1000	0.0939	M
						RPD = 3.16	
15 2,4,5-T							M
1	7.929	7.929	0.000	56867356	0.0250	0.0259	
2	8.083	8.083	0.000	149160522	0.0250	0.0224	M
						RPD = 14.39	
16 2,4-DB							M
1	8.175	8.175	0.000	13655211	0.1000	0.0916	
2	8.302	8.302	0.000	97285447	0.1000	0.0986	M
						RPD = 7.35	
17 Dinoseb							M
1	8.224	8.224	0.000	110631354	0.1000	0.0904	
2	8.248	8.248	0.000	344721192	0.1000	0.0811	M
						RPD = 10.80	
18 Bentazon							M
1	8.300	8.300	0.000	27567147	0.1000	0.0959	
2	8.662	8.662	0.000	74902105	0.1000	0.0932	M
						RPD = 2.86	
19 Picloram							M
1	8.529	8.529	0.000	216808821	0.1000	0.0920	
2	9.005	9.005	0.000	759779337	0.1000	0.0769	M
						RPD = 17.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.623	8.623	0.000	315619469	0.1000	0.0958	
2	8.775	8.775	0.000	947740711	0.1000	0.0965	M
						RPD = 0.69	
21 Acifluorfen							
1	9.666	9.666	0.000	217026310	0.1000	0.0952	
2	9.792	9.792	0.000	596281084	0.1000	0.0890	
						RPD = 6.71	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

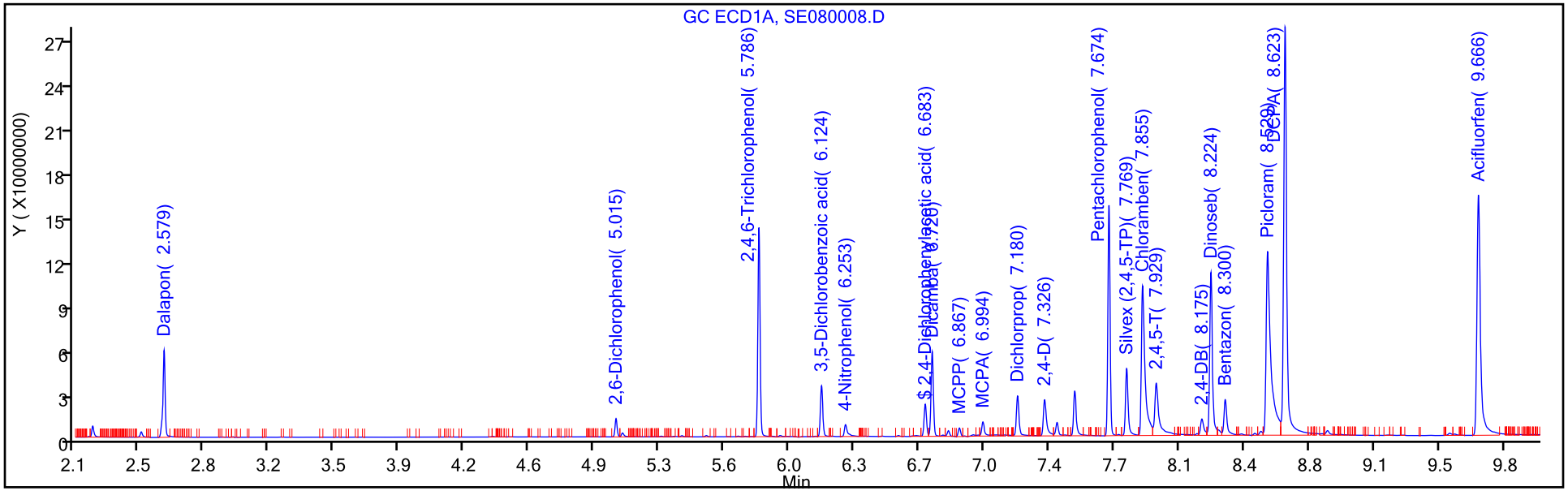
Report Date: 08-May-2018 16:25:26 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

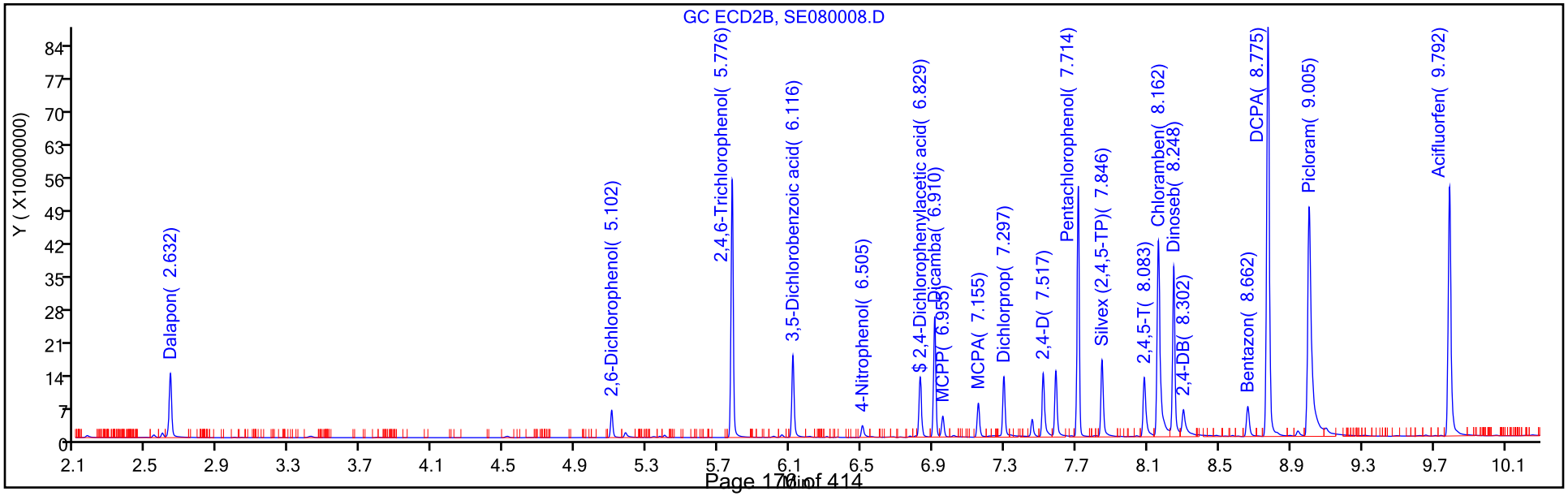
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D

Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-May-2018 13:36:16 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:32 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:19:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	25290814	0.0500	0.0483	
2	2.632	2.632	0.000	71378402	0.0500	0.0443	
						RPD = 8.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	5120223	NC	NC	
2	5.101	5.102	-0.001	27211487	NC	NC	
						RPD = 3.92	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	55102499	NC	NC	
2	5.776	5.776	0.000	240010788	NC	NC	
						RPD = 1.48	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	15117918	0.0500	0.0470	
2	6.116	6.116	0.000	82525138	0.0500	0.0459	
						RPD = 2.39	
5 4-Nitrophenol							
1	6.254	6.253	0.001	4230904	0.0500	0.0458	
2	6.506	6.505	0.001	14245923	0.0500	0.0476	
						RPD = 4.02	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	9821711	0.0500	0.0464	
2	6.829	6.829	0.000	65002540	0.0500	0.0462	
						RPD = 0.58	
7 Dicamba							
1	6.721	6.720	0.001	24549090	0.0250	0.0228	
2	6.909	6.910	-0.001	113374207	0.0250	0.0226	
						RPD = 0.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.866	6.867	-0.001	2565927	5.00	5.99	
2	6.955	6.955	0.000	26339273	5.00	5.17	
						RPD = 14.76	
9 MCPA							
1	6.994	6.994	0.000	4373482	5.00	4.72	
2	7.154	7.155	-0.001	40478712	5.00	7.49	
						RPD = 45.31	
10 Dichlorprop							
1	7.181	7.180	0.001	13064380	0.0500	0.0471	
2	7.297	7.297	0.000	62424883	0.0500	0.0443	
						RPD = 6.13	
11 2,4-D							
1	7.331	7.326	0.005	13528651	0.0500	0.0447	
2	7.520	7.517	0.003	68918972	0.0500	0.0432	
						RPD = 3.38	
12 Pentachlorophenol							
1	7.674	7.674	0.000	60060646	0.0125	0.0112	
2	7.713	7.714	-0.001	214964113	0.0125	0.0114	
						RPD = 2.42	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	20302486	0.0125	0.0108	
2	7.846	7.846	0.000	78639731	0.0125	0.0106	
						RPD = 1.56	
14 Chloramben							
1	7.860	7.855	0.005	60085684	0.0500	0.0468	
2	8.164	8.162	0.002	240336393	0.0500	0.0427	
						RPD = 9.03	
15 2,4,5-T							
1	7.933	7.929	0.004	26566988	0.0125	0.0121	
2	8.086	8.083	0.003	68256754	0.0125	0.0103	
						RPD = 16.45	
16 2,4-DB							
1	8.178	8.175	0.003	5762851	0.0500	0.0472	
2	8.305	8.302	0.003	46624287	0.0500	0.0473	
						RPD = 0.23	
17 Dinoseb							
1	8.225	8.224	0.001	53295649	0.0500	0.0435	
2	8.248	8.248	0.000	154960345	0.0500	0.0402	
						RPD = 8.01	
18 Bentazon							
1	8.301	8.300	0.001	13719455	0.0500	0.0477	
2	8.663	8.662	0.001	35565067	0.0500	0.0442	
						RPD = 7.56	
19 Picloram							
1	8.533	8.529	0.004	94759287	0.0500	0.0468	
2	9.009	9.005	0.004	328532437	0.0500	0.0386	
						RPD = 19.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.624	8.623	0.001	151449071	0.0500	0.0460	
2	8.775	8.775	0.000	451881325	0.0500	0.0460	
						RPD = 0.05	
21 Acifluorfen							
1	9.667	9.666	0.001	97225812	0.0500	0.0468	
2	9.791	9.792	-0.001	248586919	0.0500	0.0440	
						RPD = 6.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

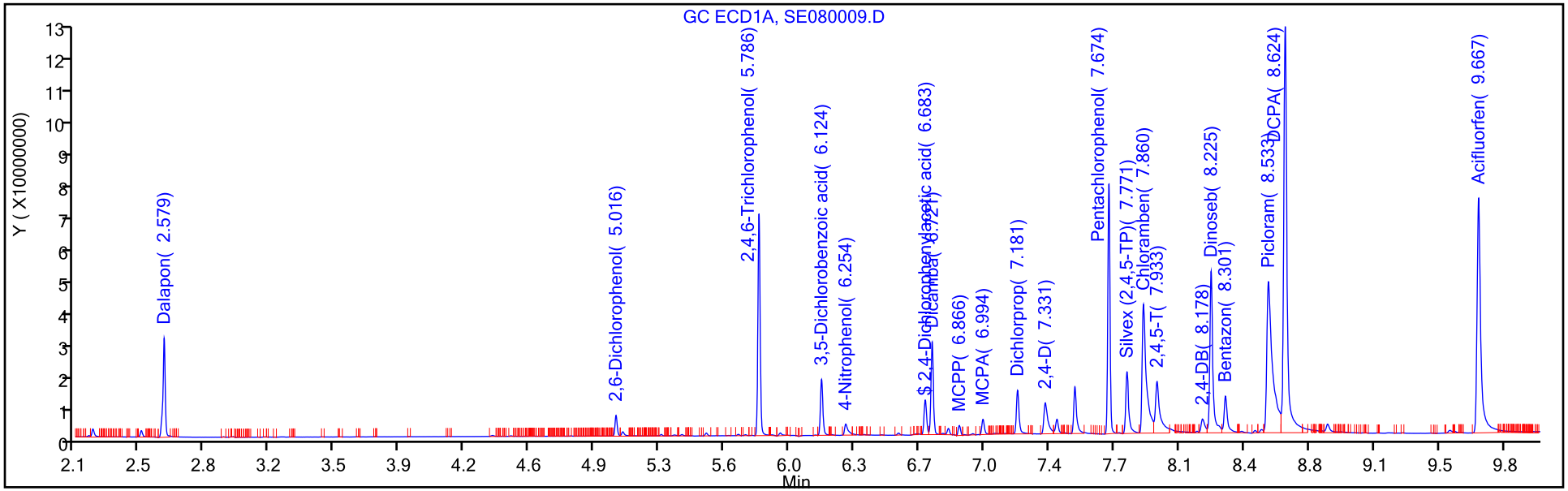
Report Date: 08-May-2018 16:25:34 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

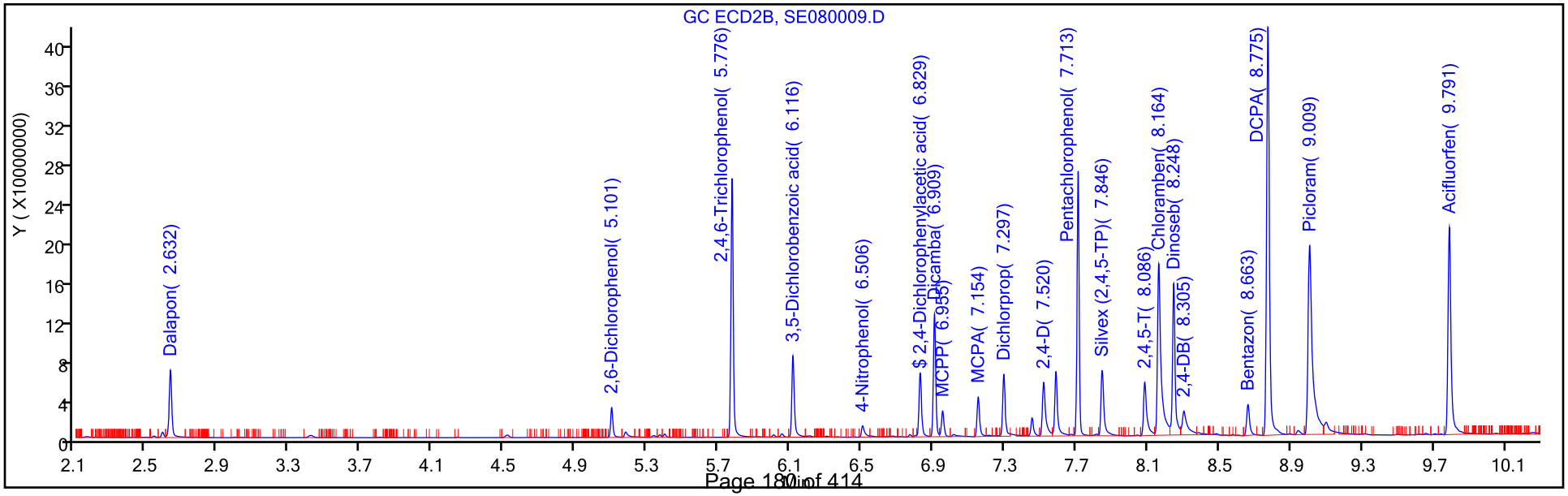
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D

Injection Date:	08-May-2018 13:36:16	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-May-2018 13:55:52 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:38 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	13718735	0.0250	0.0262	
2	2.632	2.632	0.000	39932951	0.0250	0.0248	
						RPD = 5.50	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	2779258	NC	NC	
2	5.102	5.102	0.000	15274619	NC	NC	
						RPD = 0.57	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	27400593	NC	NC	
2	5.776	5.776	0.000	122077658	NC	NC	
						RPD = 3.74	
4 3,5-Dichlorobenzoic acid							
1	6.125	6.124	0.001	8148129	0.0250	0.0254	
2	6.118	6.116	0.002	44015926	0.0250	0.0245	
						RPD = 3.44	
5 4-Nitrophenol							
1	6.258	6.253	0.005	2307008	0.0250	0.0250	
2	6.511	6.505	0.006	7416225	0.0250	0.0248	
						RPD = 0.61	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	5538443	0.0250	0.0262	
2	6.830	6.829	0.001	34723127	0.0250	0.0247	
						RPD = 5.99	
7 Dicamba							
1	6.720	6.720	0.000	13200023	0.0125	0.0123	
2	6.910	6.910	0.000	58578625	0.0125	0.0117	
						RPD = 4.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	1288891	2.50	3.49	
2	6.955	6.955	0.000	16319936	2.50	2.87	
						RPD = 19.60	
9 MCPA							
1	6.995	6.994	0.001	2137688	2.50	2.31	
2	7.155	7.155	0.000	24668652	2.50	4.72	
						RPD = 68.67	
10 Dichlorprop							
1	7.182	7.180	0.002	6871862	0.0250	0.0248	
2	7.298	7.297	0.001	33672808	0.0250	0.0239	
						RPD = 3.61	
11 2,4-D							
1	7.337	7.326	0.011	6740238	0.0250	0.0223	
2	7.524	7.517	0.007	35695833	0.0250	0.0224	
						RPD = 0.50	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	29521455	0.006250	0.005483	
2	7.713	7.714	-0.001	107509203	0.006250	0.005716	
						RPD = 4.15	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	9932955	0.006250	0.005287	
2	7.850	7.846	0.004	39284572	0.006250	0.005315	
						RPD = 0.53	
14 Chloramben							
1	7.864	7.855	0.009	28147981	0.0250	0.0279	
2	8.167	8.162	0.005	117512235	0.0250	0.0209	
						RPD = 28.91	
15 2,4,5-T							
1	7.935	7.929	0.006	13893399	0.006250	0.006333	
2	8.090	8.083	0.007	34680183	0.006250	0.005218	
						RPD = 19.31	
16 2,4-DB							
1	8.182	8.175	0.007	2666490	0.0250	0.0295	
2	8.308	8.302	0.006	26051520	0.0250	0.0264	
						RPD = 10.95	
17 Dinoseb							
1	8.225	8.224	0.001	27141219	0.0250	0.0222	
2	8.250	8.248	0.002	77307007	0.0250	0.0234	
						RPD = 5.56	
18 Bentazon							
1	8.304	8.300	0.004	6986266	0.0250	0.0243	
2	8.665	8.662	0.003	18151512	0.0250	0.0226	
						RPD = 7.33	
19 Picloram							
1	8.538	8.529	0.009	44134008	0.0250	0.0275	
2	9.011	9.005	0.006	155603121	0.0250	0.0232	
						RPD = 16.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	77163736	0.0250	0.0234	
2	8.776	8.775	0.001	226645361	0.0250	0.0231	
						RPD = 1.52	
21 Acifluorfen							
1	9.668	9.666	0.002	48982390	0.0250	0.0268	
2	9.795	9.792	0.003	120359495	0.0250	0.0266	
						RPD = 0.57	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

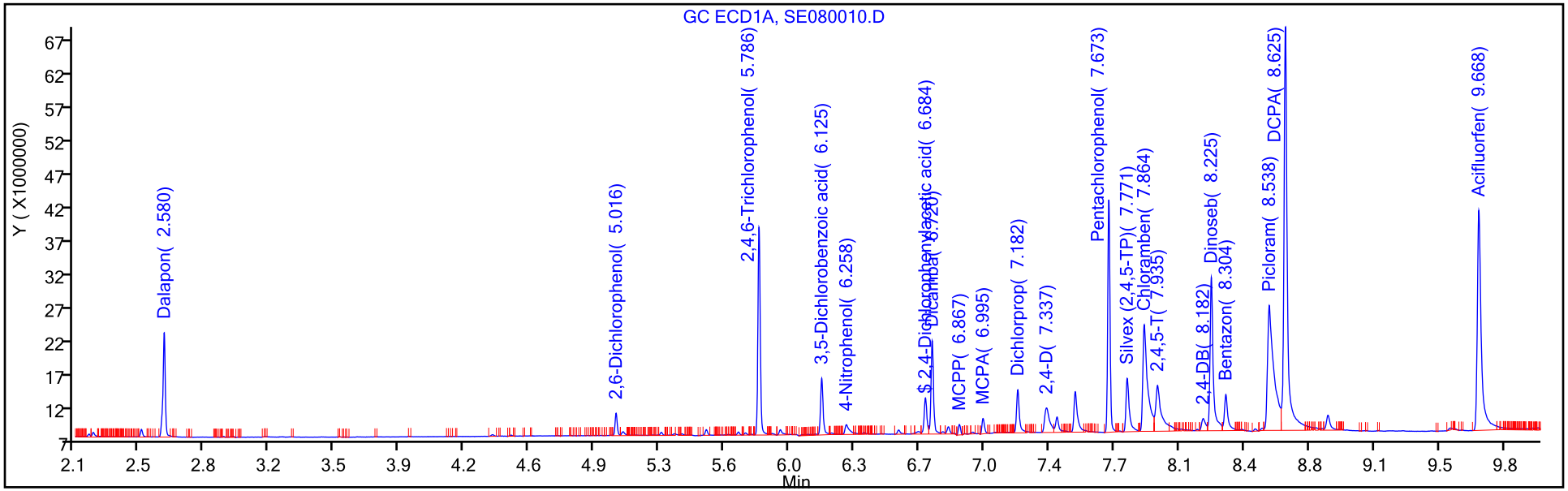
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TestAmerica Savannah

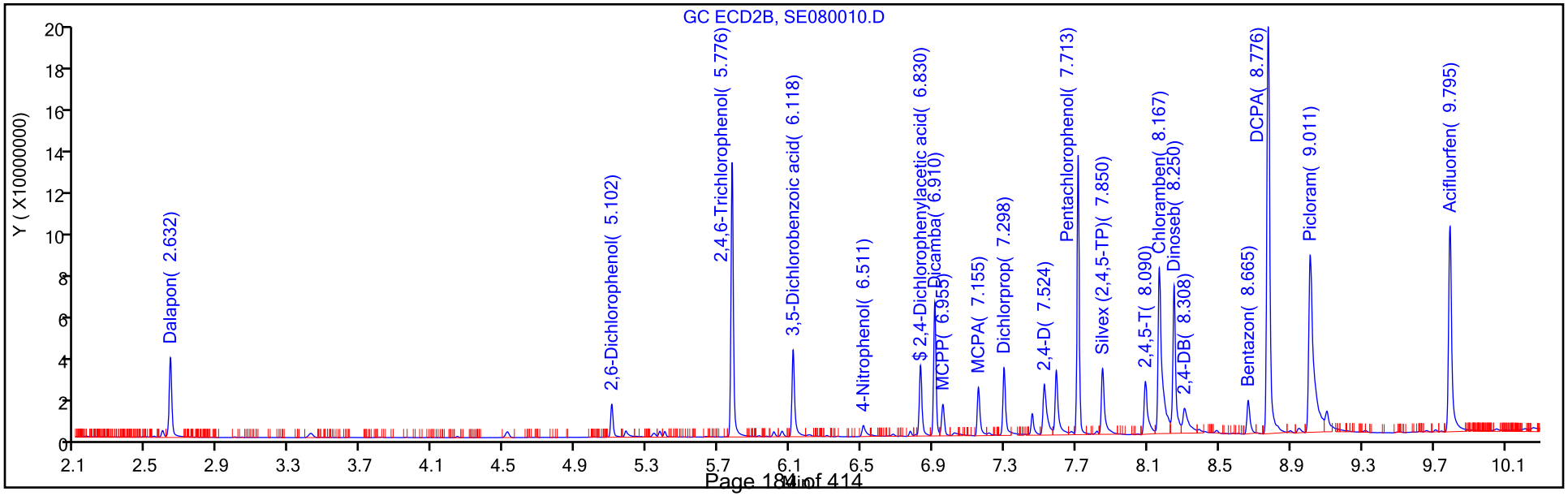
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Injection Date:	08-May-2018 13:55:52	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2018 14:15:28 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:44 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:11:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	5906230	0.0100	0.0113	
2	2.633	2.632	0.001	17983150	0.0100	0.0112	
						RPD = 1.00	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	1242849	NC	NC	
2	5.103	5.102	0.001	6728448	NC	NC	
						RPD = 2.08	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	10511883	NC	NC	
2	5.776	5.776	0.000	47802186	NC	NC	
						RPD = 5.78	
4 3,5-Dichlorobenzoic acid							
1	6.126	6.124	0.002	3202229	0.0100	0.0100	
2	6.119	6.116	0.003	18377513	0.0100	0.0102	
						RPD = 2.62	
5 4-Nitrophenol							Ma
1	6.263	6.253	0.010	711986	0.0100	0.007701	a
2	6.516	6.505	0.011	2506531	0.0100	0.008382	M
						RPD = 8.47	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	2325909	0.0100	0.0110	
2	6.831	6.829	0.002	14359475	0.0100	0.0102	
						RPD = 7.53	
7 Dicamba							
1	6.721	6.720	0.001	5346345	0.005000	0.004964	
2	6.911	6.910	0.001	23620770	0.005000	0.004716	
						RPD = 5.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	383358	1.00	1.63	
2	6.956	6.955	0.001	7884133	1.00	0.9383	
						RPD = 53.96	
9 MCPA							
1	6.996	6.994	0.002	684536	1.00	0.7393	
2	7.156	7.155	0.001	12132999	1.00	2.39	
						RPD = 105.59	
10 Dichlorprop							
1	7.182	7.180	0.002	2699462	0.0100	0.009728	
2	7.299	7.297	0.002	15301912	0.0100	0.0109	
						RPD = 10.94	
11 2,4-D							a
1	7.346	7.326	0.020	2400934	0.0100	0.007940	a
2	7.531	7.517	0.014	14551198	0.0100	0.009131	a
						RPD = 13.96	
12 Pentachlorophenol							
1	7.674	7.674	0.000	11008502	0.002500	0.002045	
2	7.713	7.714	-0.001	41165516	0.002500	0.002189	
						RPD = 6.80	
13 Silvex (2,4,5-TP)							
1	7.776	7.769	0.007	3531202	0.002500	0.001880	
2	7.851	7.846	0.005	16213772	0.002500	0.002194	
						RPD = 15.42	
14 Chloramben							
1	7.868	7.855	0.013	10146304	0.0100	0.0173	
2	8.171	8.162	0.009	45179417	0.0100	0.008031	
						RPD = 72.95	
15 2,4,5-T							
1	7.937	7.929	0.008	5683855	0.002500	0.002591	
2	8.089	8.083	0.006	14207297	0.002500	0.002138	
						RPD = 19.17	
16 2,4-DB							Ma
1	8.185	8.175	0.010	957156	0.0100	0.0196	M
2	8.312	8.302	0.010	10871976	0.0100	0.0110	a
						RPD = 56.23	
17 Dinoseb							
1	8.227	8.224	0.003	10802376	0.0100	0.008826	
2	8.251	8.248	0.003	30077804	0.0100	0.0133	
						RPD = 40.12	
18 Bentazon							
1	8.306	8.300	0.006	3164677	0.0100	0.0110	
2	8.665	8.662	0.003	7803979	0.0100	0.009707	
						RPD = 12.54	
19 Picloram							a
1	8.546	8.529	0.017	16249913	0.0100	0.0167	a
2	9.014	9.005	0.009	57128370	0.0100	0.0144	a
						RPD = 14.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	28939470	0.0100	0.008788	
2	8.777	8.775	0.002	86672796	0.0100	0.008825	
						RPD = 0.42	
21 Acifluorfen							
1	9.670	9.666	0.004	18199991	0.0100	0.0138	
2	9.794	9.792	0.002	40645245	0.0100	0.0156	
						RPD = 11.77	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

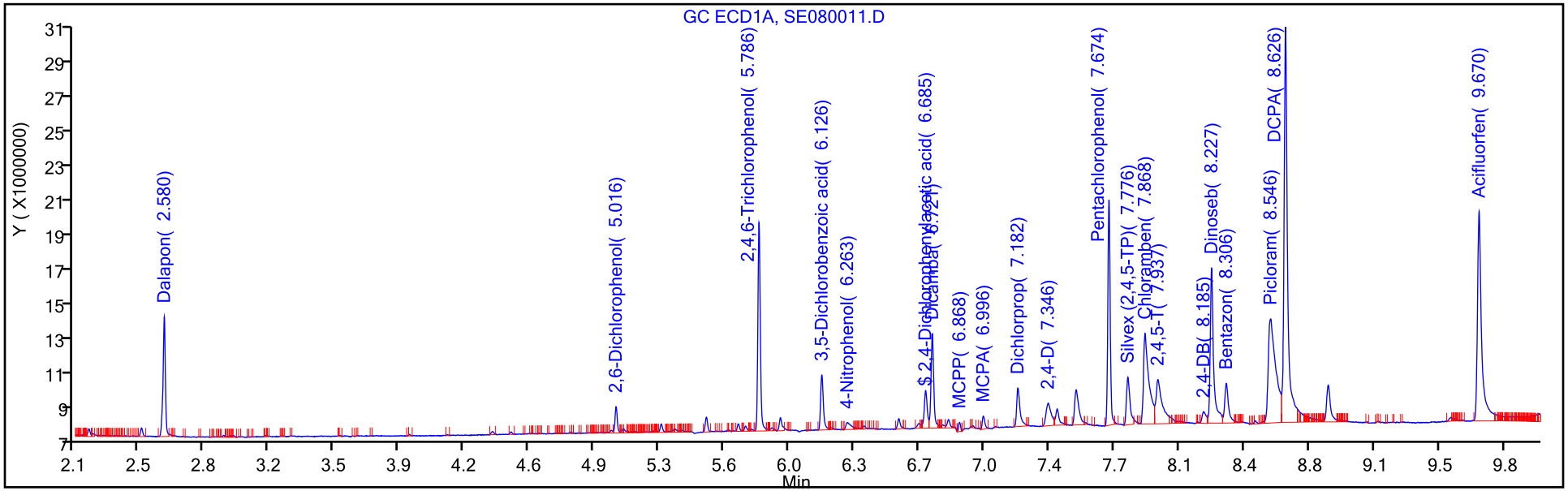
Report Date: 08-May-2018 16:25:46 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

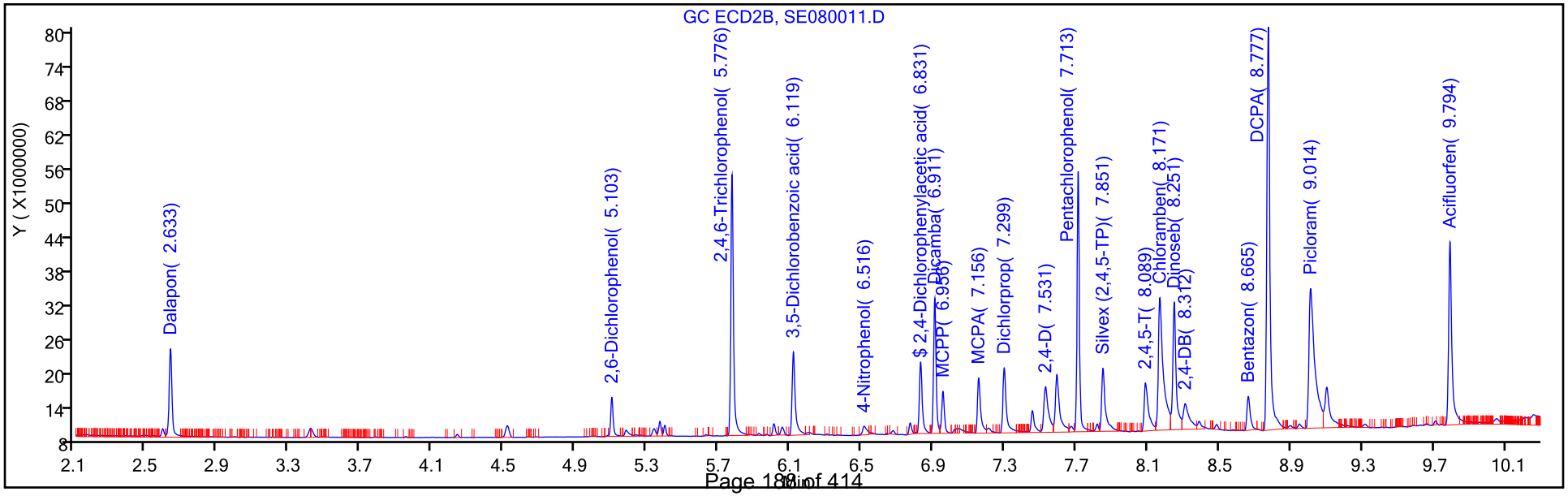
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

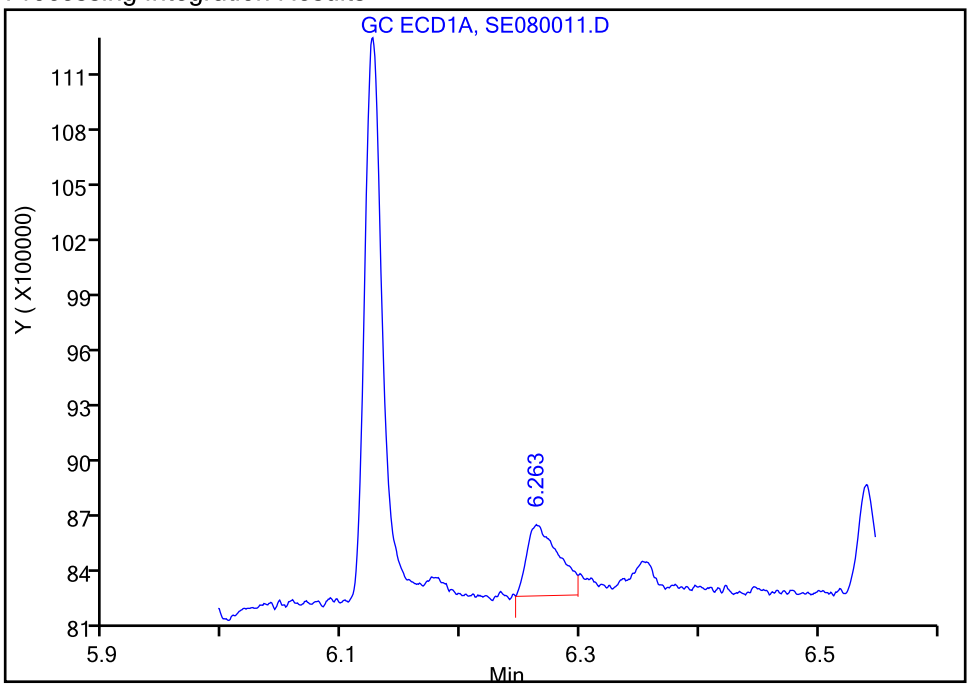
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Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

5 4-Nitrophenol, CAS: 100-02-7

Signal: 1

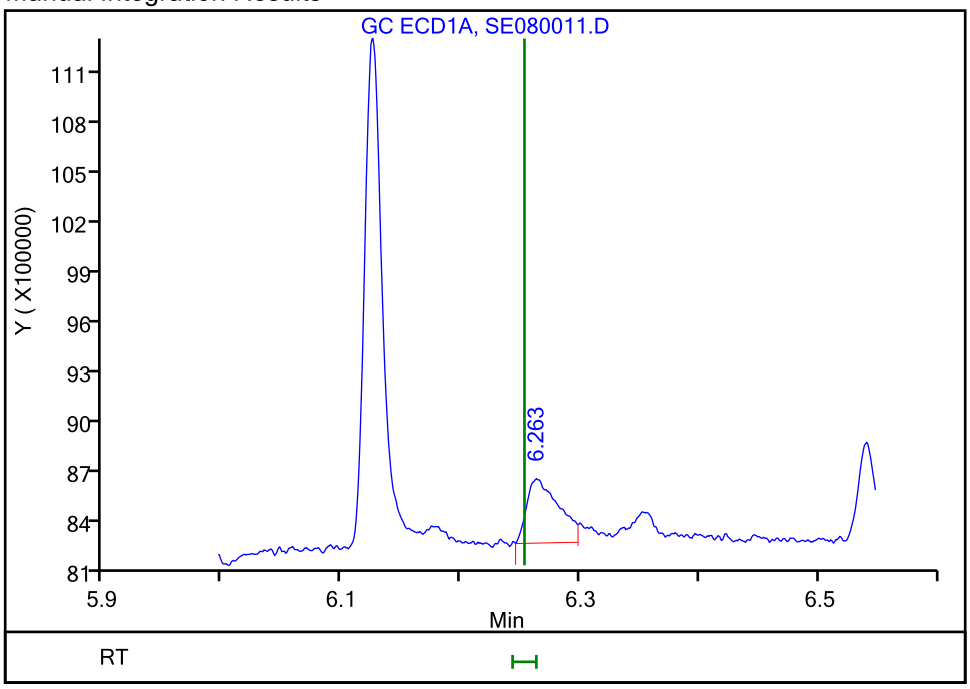
Processing Integration Results

RT: 6.26
Area: 711986
Amount: 0.007640
Amount Units: ug/ml



Manual Integration Results

RT: 6.26
Area: 711986
Amount: 0.007701
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:18
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

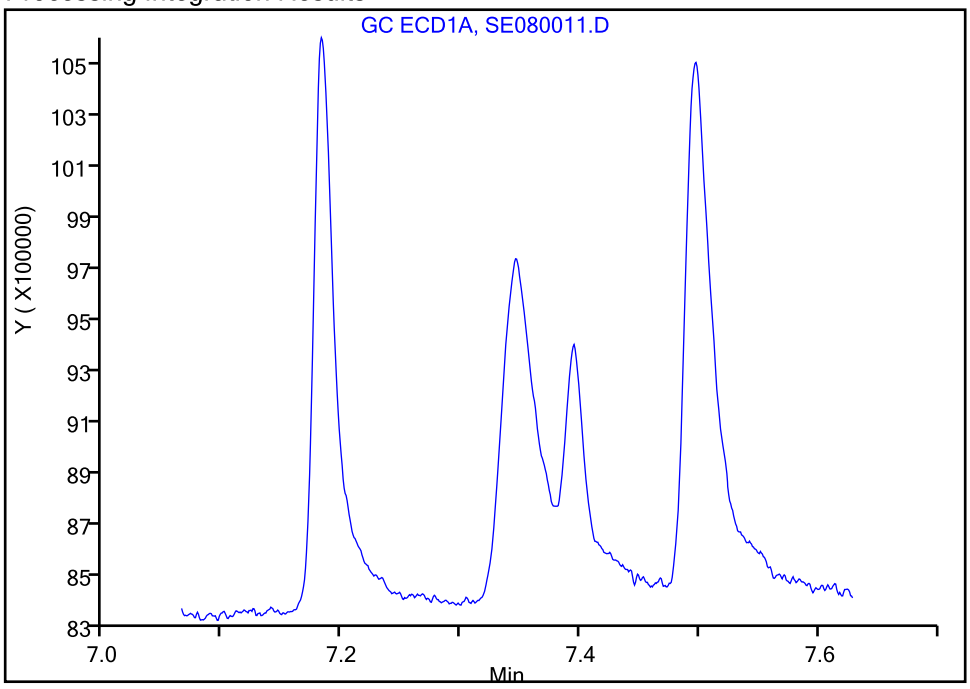
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

11 2,4-D, CAS: 94-75-7

Signal: 1

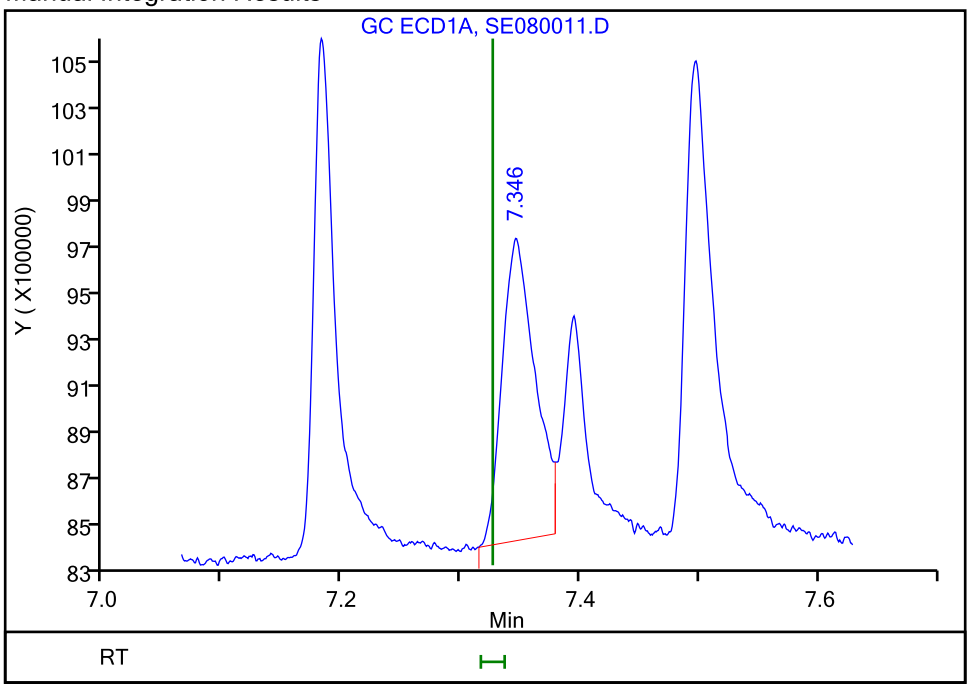
Not Detected
Expected RT: 7.33

Processing Integration Results



Manual Integration Results

RT: 7.35
Area: 2400934
Amount: 0.007940
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:12
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

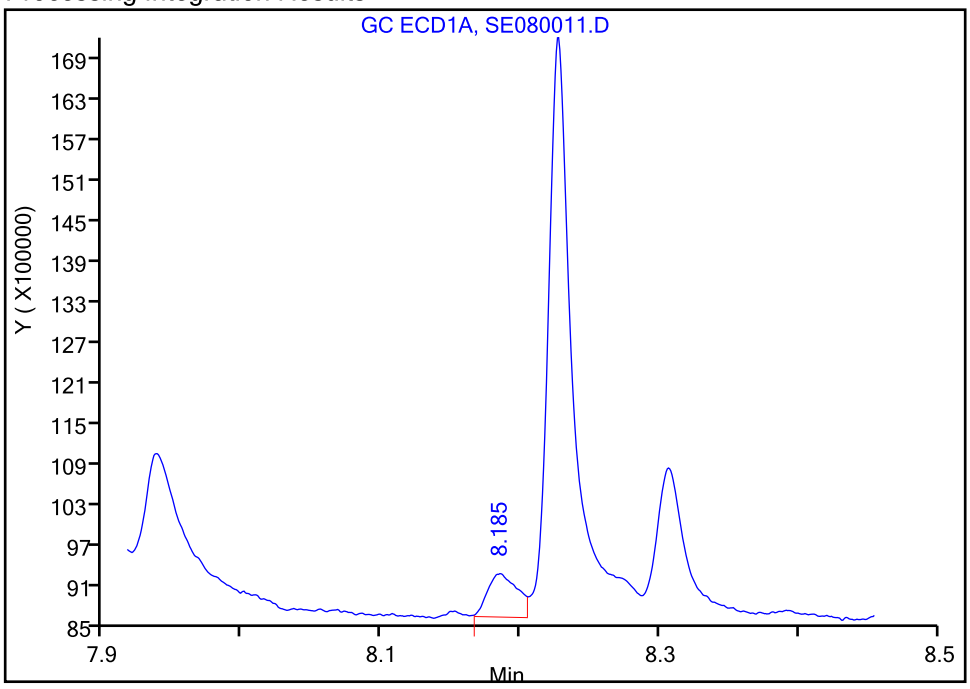
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Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS		
Lims ID:	ic h1				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

16 2,4-DB, CAS: 94-82-6

Signal: 1

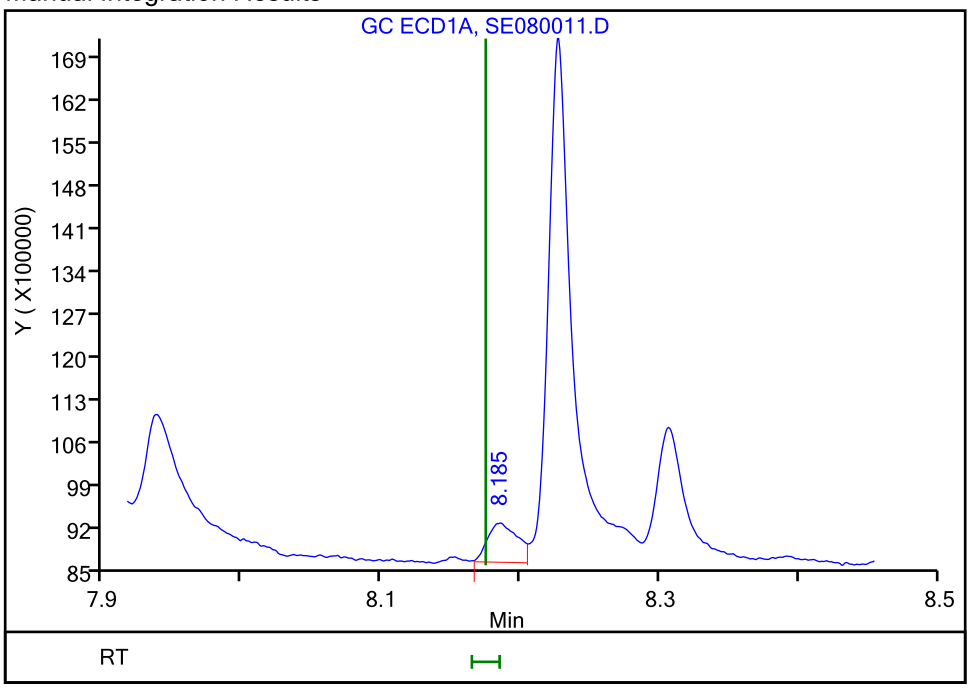
Processing Integration Results

RT: 8.18
Area: 957156
Amount: 0.021175
Amount Units: ug/ml



Manual Integration Results

RT: 8.18
Area: 957156
Amount: 0.019645
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:32

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

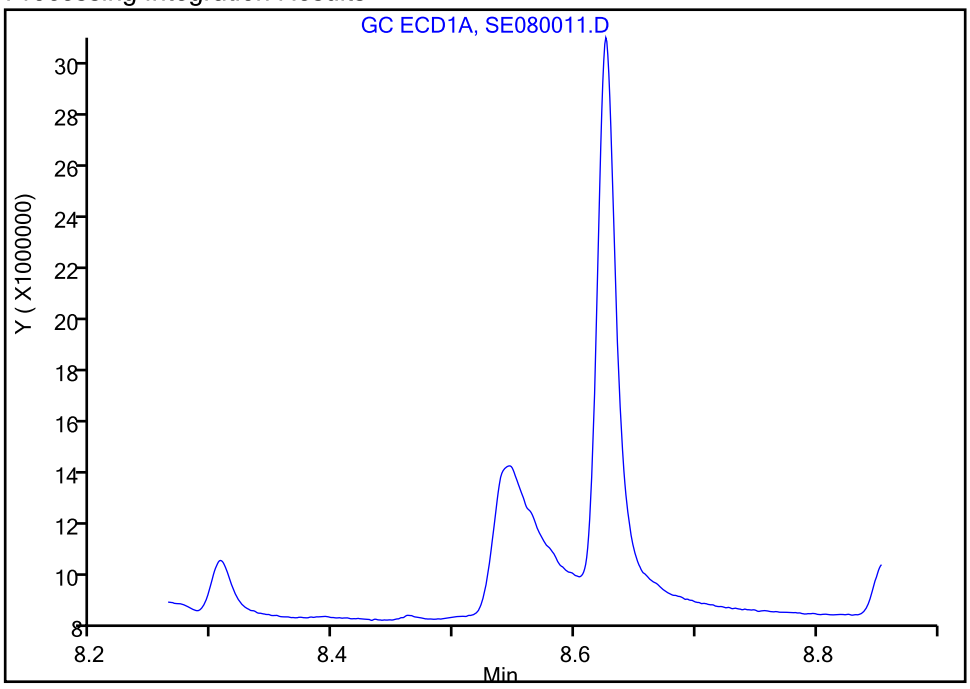
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS		
Lims ID:	ic h1				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

19 Picloram, CAS: 1918-02-1

Signal: 1

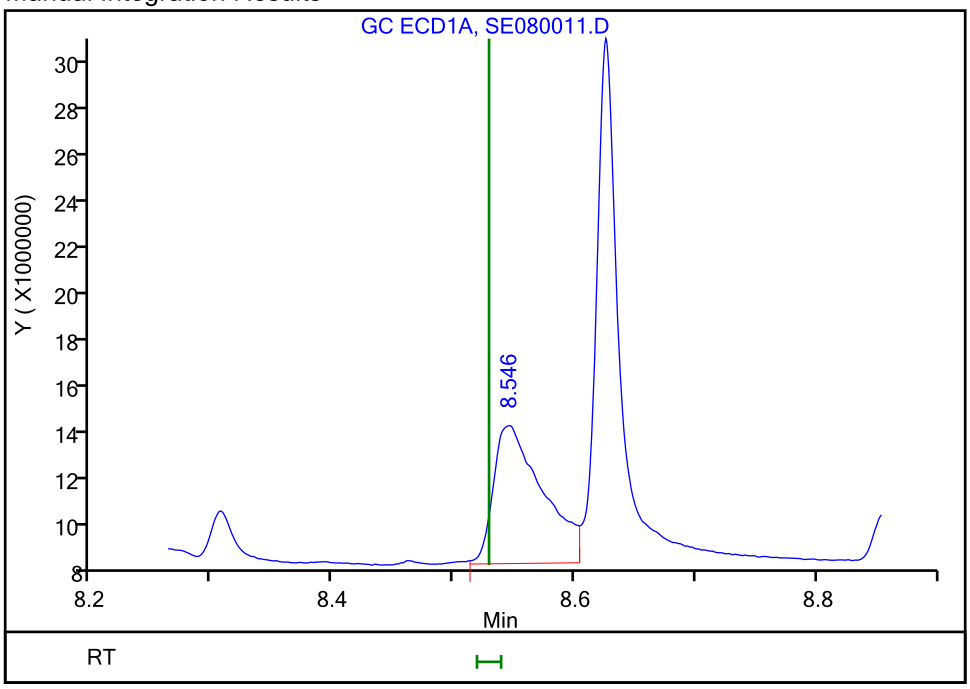
Not Detected
Expected RT: 8.53

Processing Integration Results



Manual Integration Results

RT: 8.55
Area: 16249913
Amount: 0.016709
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:41
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Calibration / Dalapon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

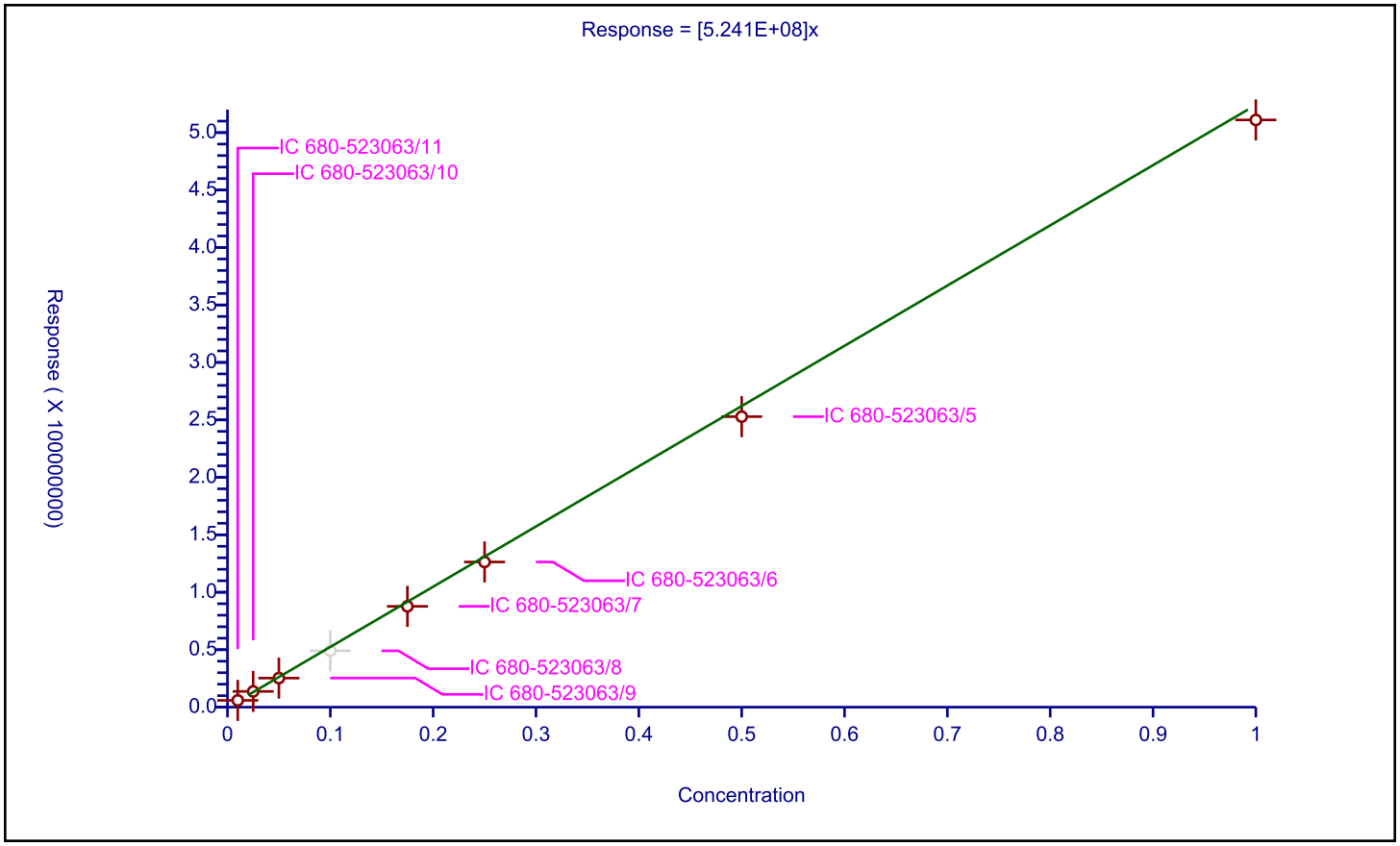
Curve Coefficients

Intercept:	0
Slope:	5.241E+08

Error Coefficients

Standard Error:	7010000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	5906230.0			590623000.0	Y
2	IC 680-523063/10	0.025	13718735.0			548749400.0	Y
3	IC 680-523063/9	0.05	25290814.0			505816280.0	Y
4	IC 680-523063/8	0.1	49026258.0			490262580.0	N
5	IC 680-523063/7	0.175	87735176.0			501343862.857143	Y
6	IC 680-523063/6	0.25	126339938.0			505359752.0	Y
7	IC 680-523063/5	0.5	252815070.0			505630140.0	Y
8	IC 680-523063/4	1.0	511012321.0			511012321.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

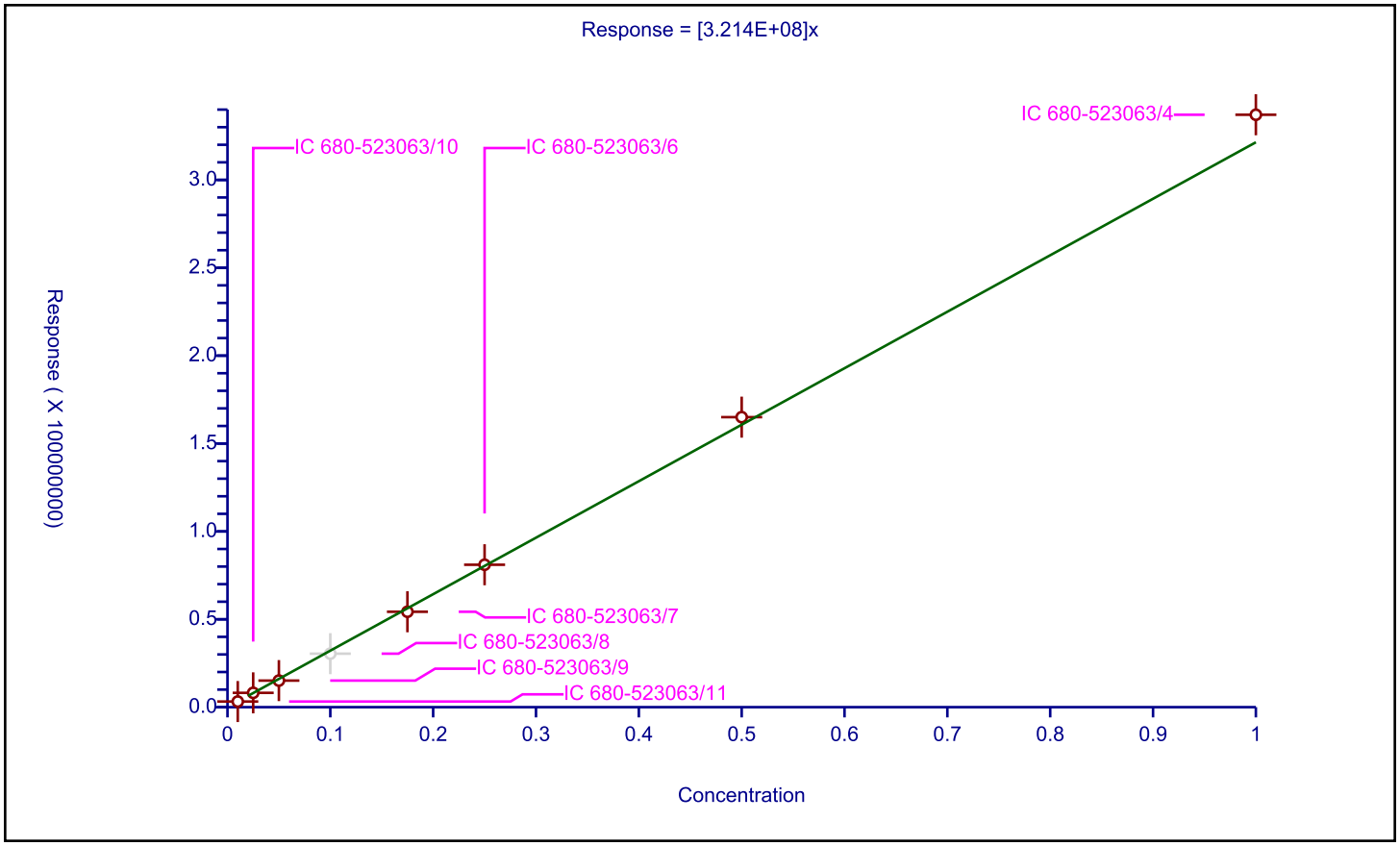
Curve Coefficients

Intercept:	0
Slope:	3.214E+08

Error Coefficients

Standard Error:	6690000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	3202229.0			320222900.0	Y
2	IC 680-523063/10	0.025	8148129.0			325925160.0	Y
3	IC 680-523063/9	0.05	15117918.0			302358360.0	Y
4	IC 680-523063/8	0.1	30442227.0			304422270.0	N
5	IC 680-523063/7	0.175	54279812.0			310170354.285714	Y
6	IC 680-523063/6	0.25	81038461.0			324153844.0	Y
7	IC 680-523063/5	0.5	165004902.0			330009804.0	Y
8	IC 680-523063/4	1.0	337068861.0			337068861.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

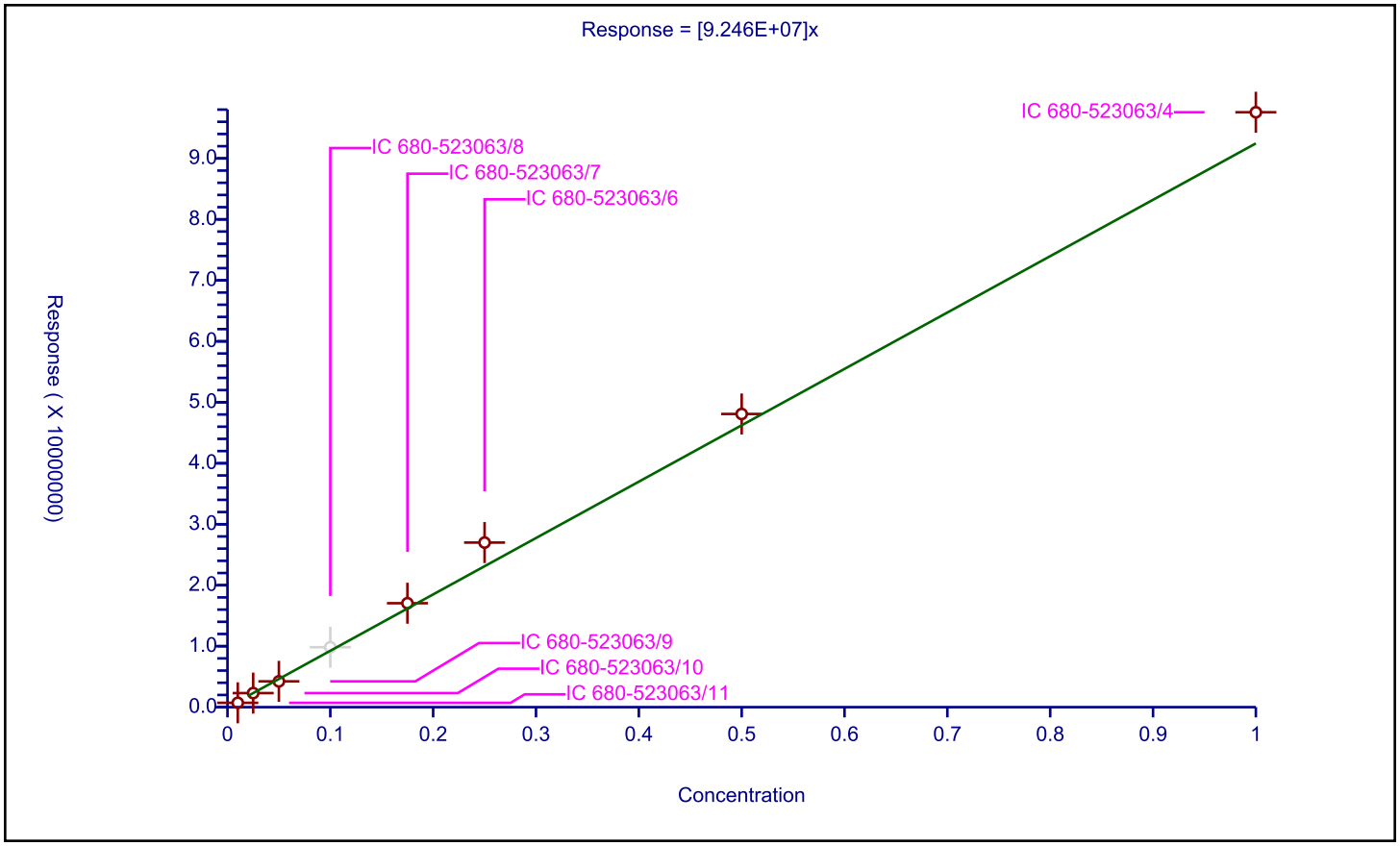
Curve Coefficients

Intercept:	0
Slope:	9.246E+07

Error Coefficients

Standard Error:	2750000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	711986.0			71198600.0	Y
2	IC 680-523063/10	0.025	2307008.0			92280320.0	Y
3	IC 680-523063/9	0.05	4230904.0			84618080.0	Y
4	IC 680-523063/8	0.1	9830837.0			98308370.0	N
5	IC 680-523063/7	0.175	17047628.0			97415017.142857	Y
6	IC 680-523063/6	0.25	26992258.0			107969032.0	Y
7	IC 680-523063/5	0.5	48081748.0			96163496.0	Y
8	IC 680-523063/4	1.0	97562965.0			97562965.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

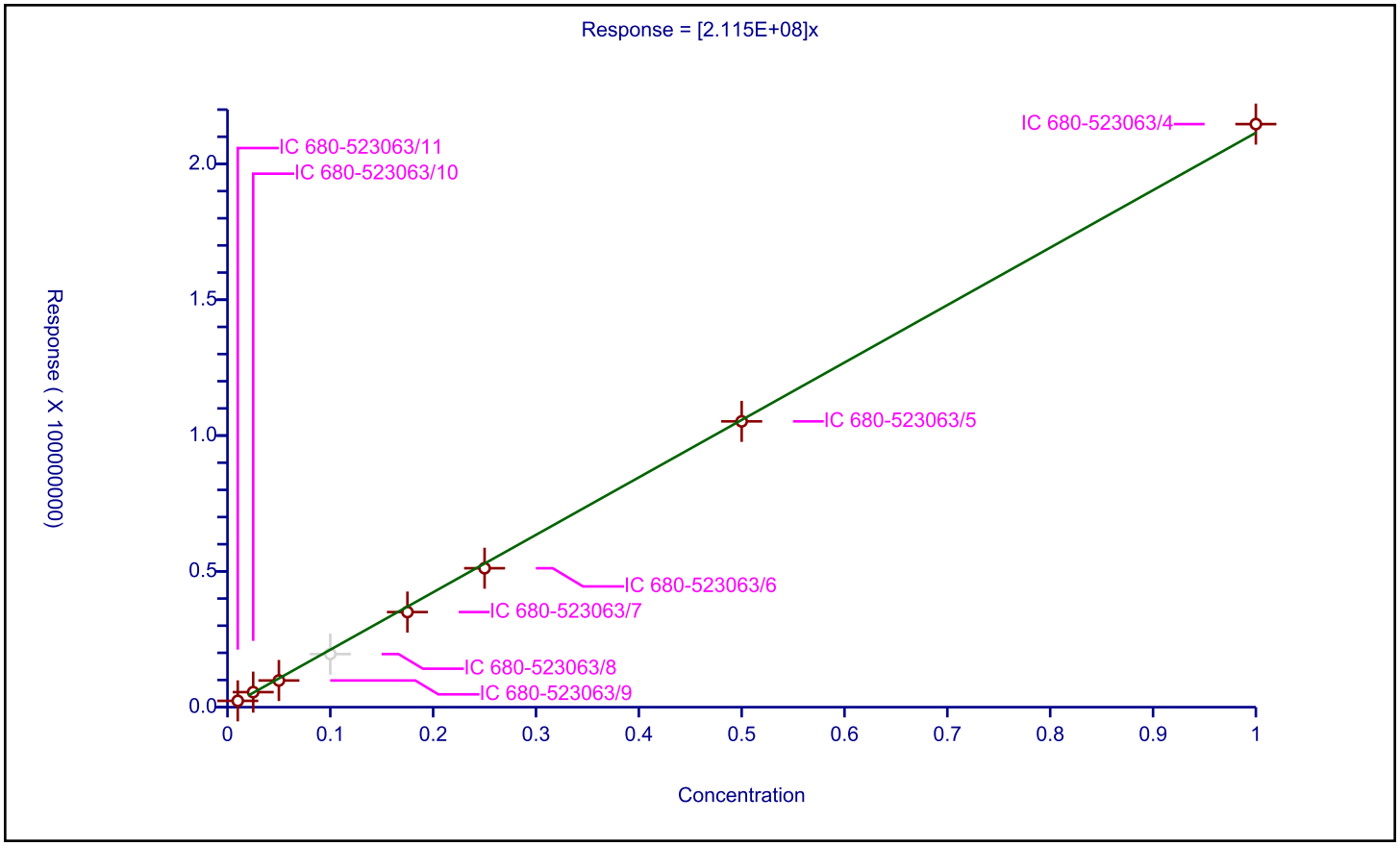
Curve Coefficients

Intercept:	0
Slope:	2.115E+08

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2325909.0			232590900.0	Y
2	IC 680-523063/10	0.025	5538443.0			221537720.0	Y
3	IC 680-523063/9	0.05	9821711.0			196434220.0	Y
4	IC 680-523063/8	0.1	19553071.0			195530710.0	N
5	IC 680-523063/7	0.175	35013881.0			200079320.0	Y
6	IC 680-523063/6	0.25	51149844.0			204599376.0	Y
7	IC 680-523063/5	0.5	105220295.0			210440590.0	Y
8	IC 680-523063/4	1.0	214663766.0			214663766.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

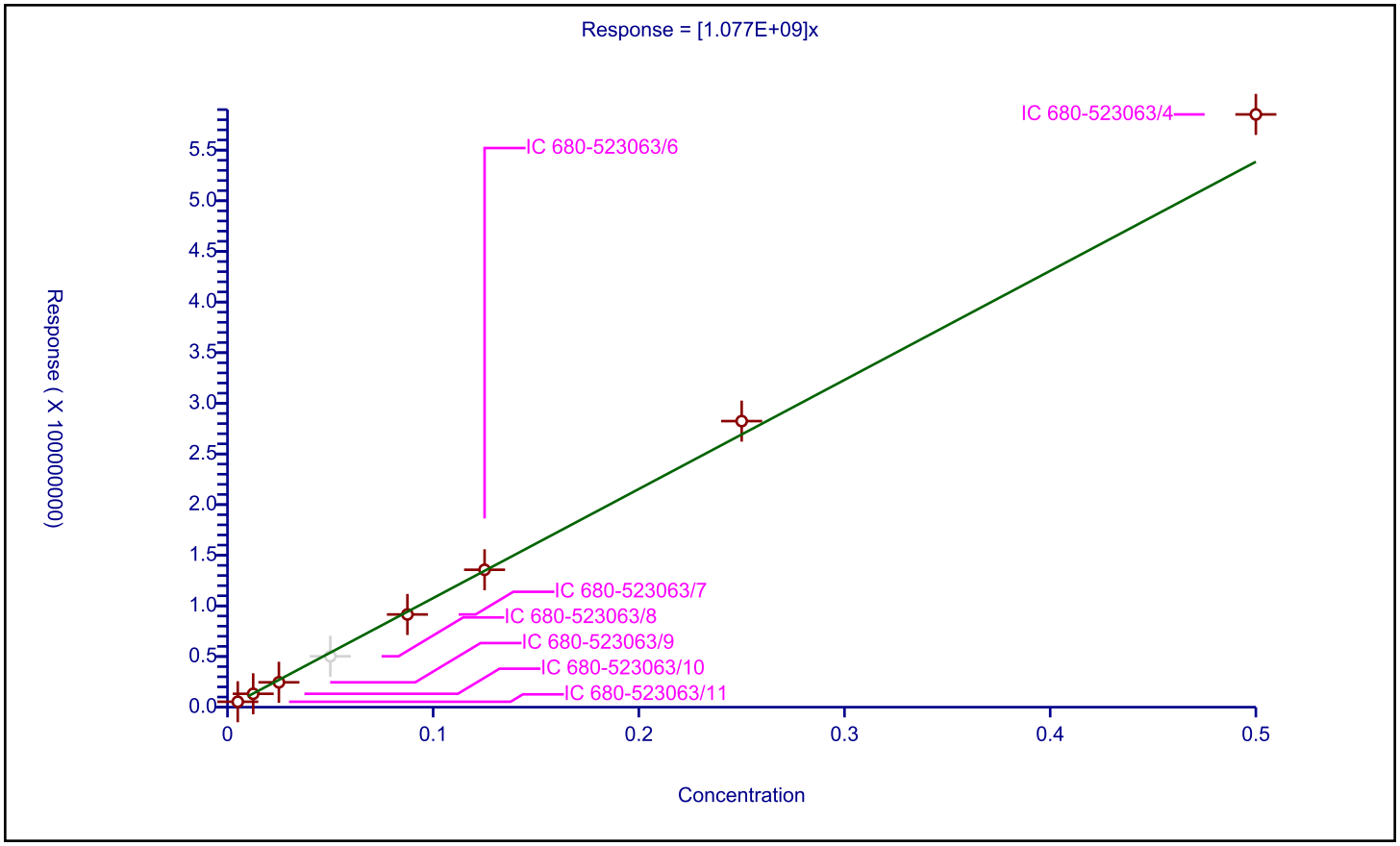
Curve Coefficients

Intercept:	0
Slope:	1.077E+09

Error Coefficients

Standard Error:	19900000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.005	5346345.0			1069269000.0	Y
2	IC 680-523063/10	0.0125	13200023.0			1056001840.0	Y
3	IC 680-523063/9	0.025	24549090.0			981963600.0	Y
4	IC 680-523063/8	0.05	50221281.0			1004425620.0	N
5	IC 680-523063/7	0.0875	91550778.0			1046294605.71429	Y
6	IC 680-523063/6	0.125	135663470.0			1085307760.0	Y
7	IC 680-523063/5	0.25	282435535.0			1129742140.0	Y
8	IC 680-523063/4	0.5	585243873.0			1170487746.0	Y



Calibration / MCPP

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

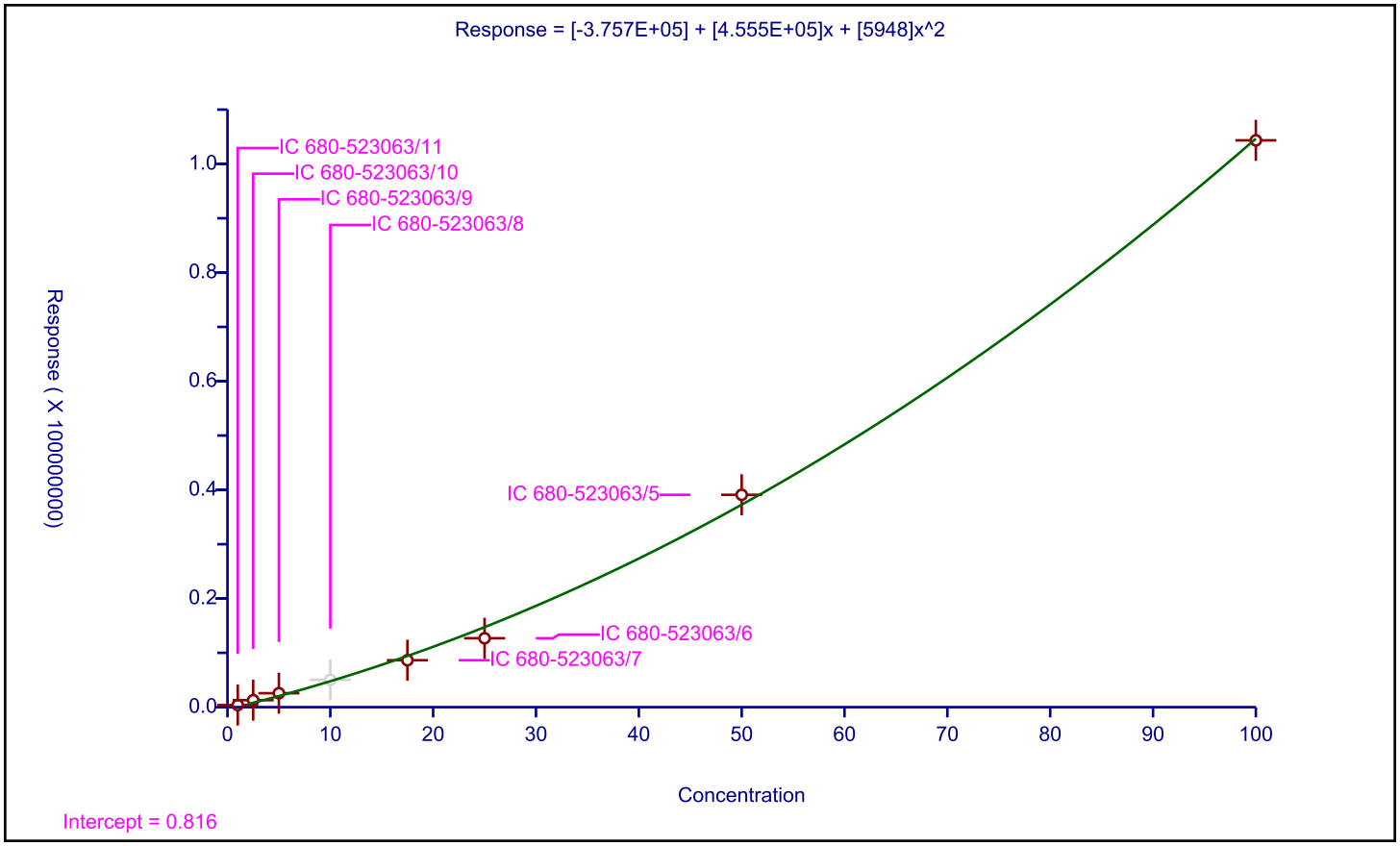
Curve Coefficients

Intercept:	-3.757E+05
Slope:	4.555E+05
Second Order:	5948

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	39.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	383358.0			383358.0	Y
2	IC 680-523063/10	2.5	1288891.0			515556.4	Y
3	IC 680-523063/9	5.0	2565927.0			513185.4	Y
4	IC 680-523063/8	10.0	5032337.0			503233.7	N
5	IC 680-523063/7	17.5	8640069.0			493718.228571	Y
6	IC 680-523063/6	25.0	12687646.0			507505.84	Y
7	IC 680-523063/5	50.0	39090261.0			781805.22	Y
8	IC 680-523063/4	100.0	104343971.0			1043439.71	Y



Calibration / MCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

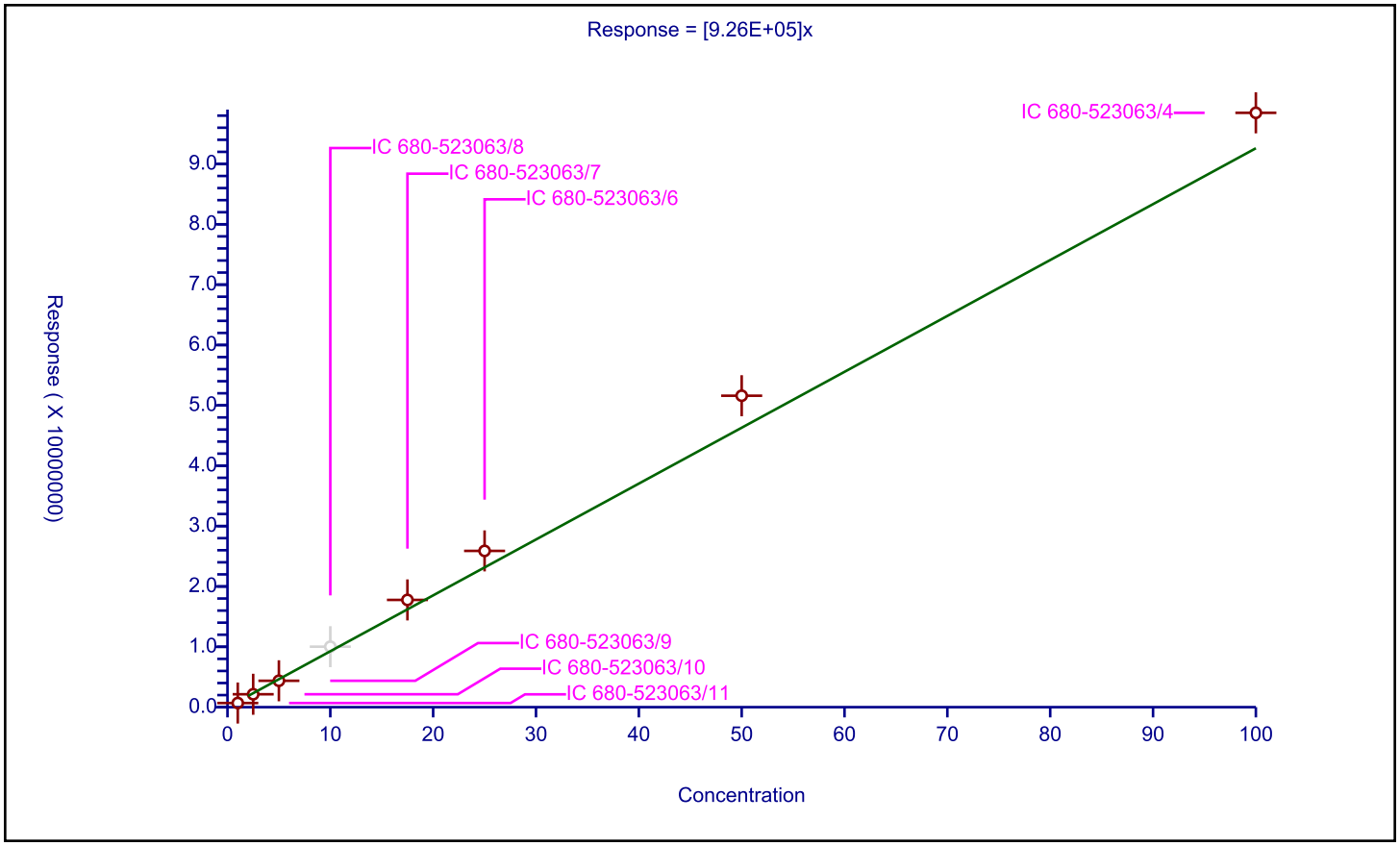
Curve Coefficients

Intercept:	0
Slope:	9.26E+05

Error Coefficients

Standard Error:	3480000
Relative Standard Error:	14.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	684536.0			684536.0	Y
2	IC 680-523063/10	2.5	2137688.0			855075.2	Y
3	IC 680-523063/9	5.0	4373482.0			874696.4	Y
4	IC 680-523063/8	10.0	10021981.0			1002198.1	N
5	IC 680-523063/7	17.5	17766771.0			1015244.057143	Y
6	IC 680-523063/6	25.0	25890792.0			1035631.68	Y
7	IC 680-523063/5	50.0	51596040.0			1031920.8	Y
8	IC 680-523063/4	100.0	98467290.0			984672.9	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

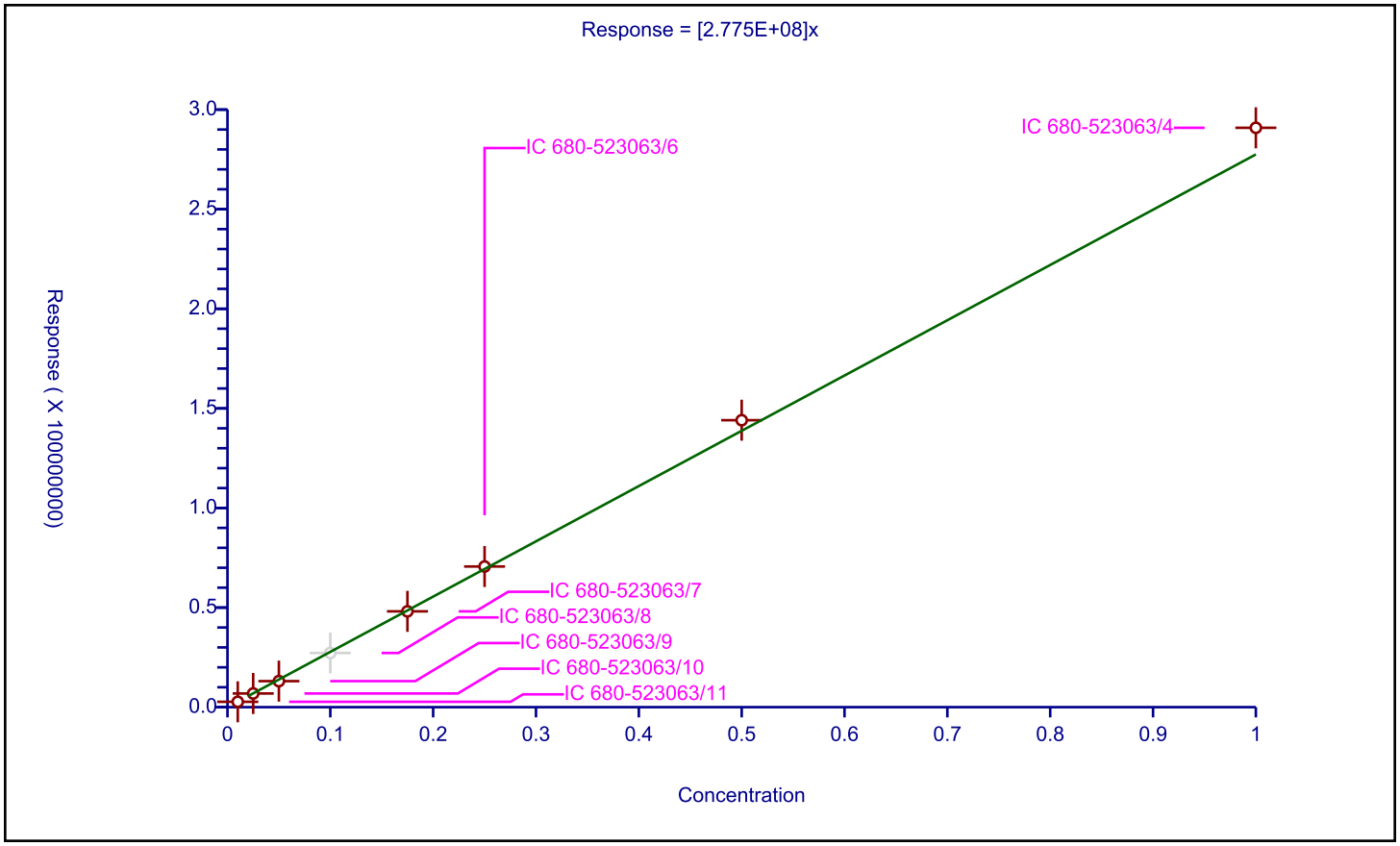
Curve Coefficients

Intercept:	0
Slope:	2.775E+08

Error Coefficients

Standard Error:	5910000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2699462.0			269946200.0	Y
2	IC 680-523063/10	0.025	6871862.0			274874480.0	Y
3	IC 680-523063/9	0.05	13064380.0			261287600.0	Y
4	IC 680-523063/8	0.1	27204673.0			272046730.0	N
5	IC 680-523063/7	0.175	48109296.0			274910262.857143	Y
6	IC 680-523063/6	0.25	70616500.0			282466000.0	Y
7	IC 680-523063/5	0.5	144063420.0			288126840.0	Y
8	IC 680-523063/4	1.0	290874356.0			290874356.0	Y



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

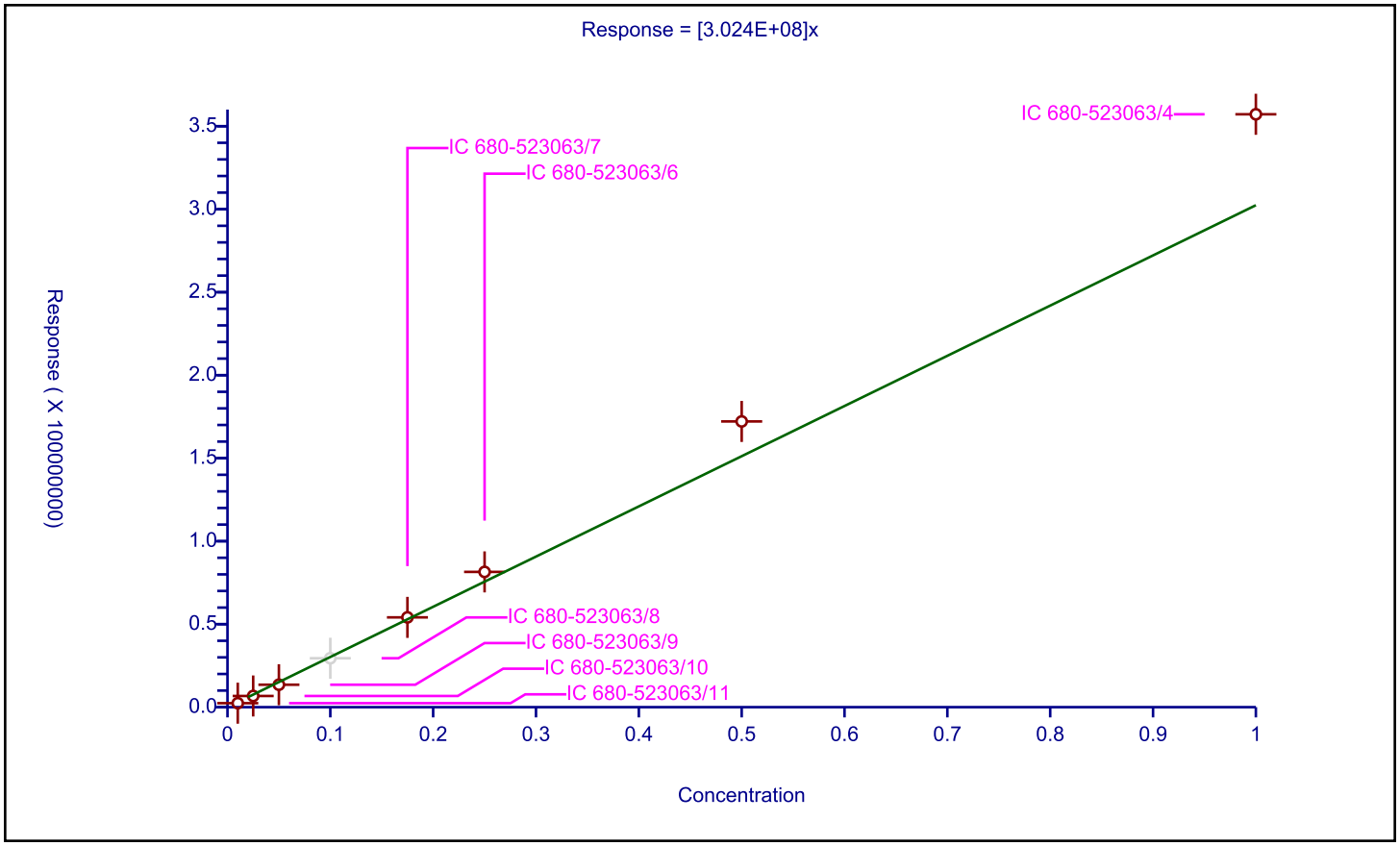
Curve Coefficients

Intercept:	0
Slope:	3.024E+08

Error Coefficients

Standard Error:	24100000
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2400934.0			240093400.0	Y
2	IC 680-523063/10	0.025	6740238.0			269609520.0	Y
3	IC 680-523063/9	0.05	13528651.0			270573020.0	Y
4	IC 680-523063/8	0.1	29475053.0			294750530.0	N
5	IC 680-523063/7	0.175	54093373.0			309104988.571429	Y
6	IC 680-523063/6	0.25	81489809.0			325959236.0	Y
7	IC 680-523063/5	0.5	172138047.0			344276094.0	Y
8	IC 680-523063/4	1.0	357181097.0			357181097.0	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

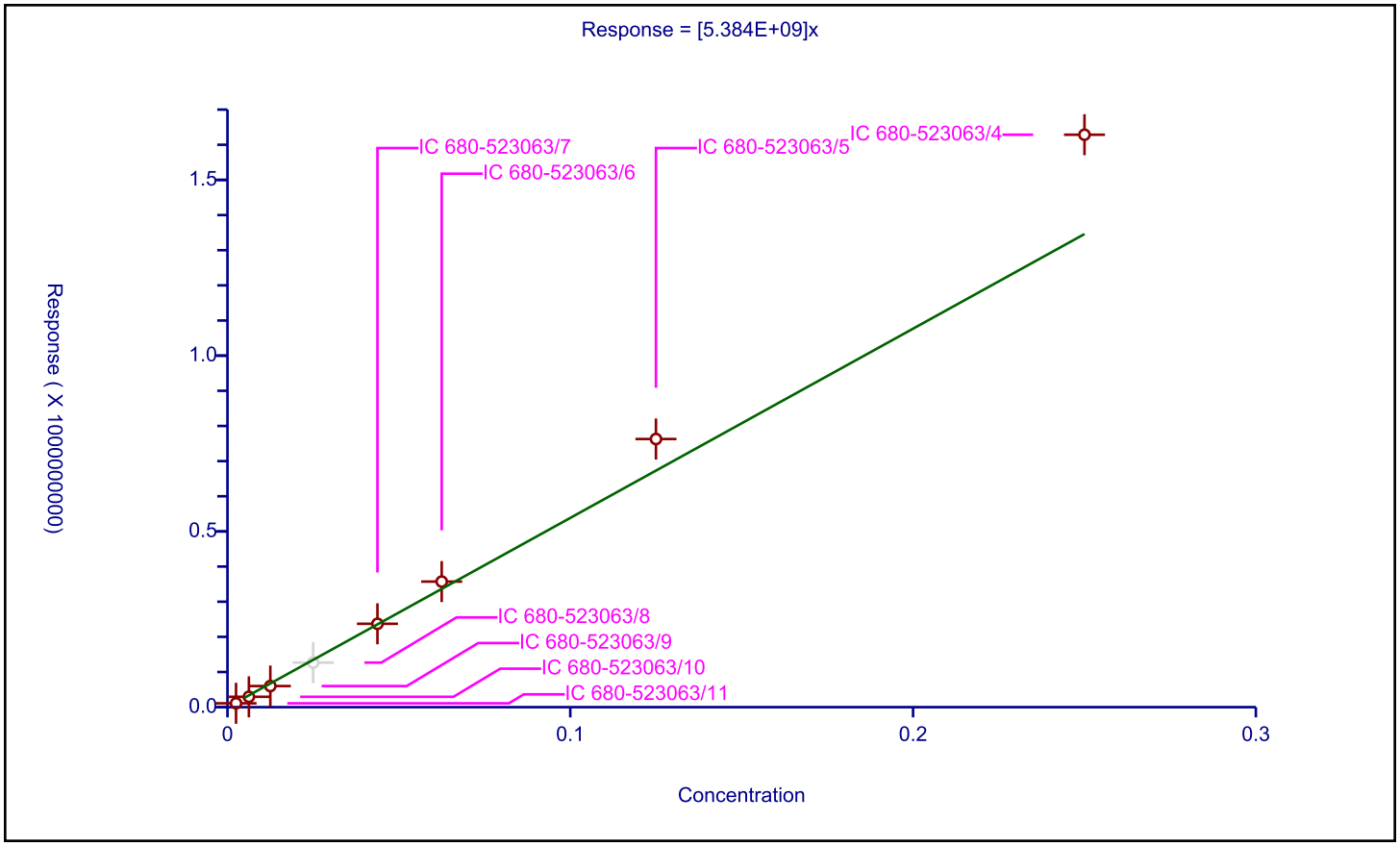
Curve Coefficients

Intercept:	0
Slope:	5.384E+09

Error Coefficients

Standard Error:	121000000
Relative Standard Error:	14.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	11008502.0			4403400800.0	Y
2	IC 680-523063/10	0.00625	29521455.0			4723432800.0	Y
3	IC 680-523063/9	0.0125	60060646.0			4804851680.0	Y
4	IC 680-523063/8	0.025	126808590.0			5072343600.0	N
5	IC 680-523063/7	0.04375	237204468.0			5421816411.42857	Y
6	IC 680-523063/6	0.0625	357293439.0			5716695024.0	Y
7	IC 680-523063/5	0.125	762859467.0			6102875736.0	Y
8	IC 680-523063/4	0.25	1628549099.0			6514196396.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

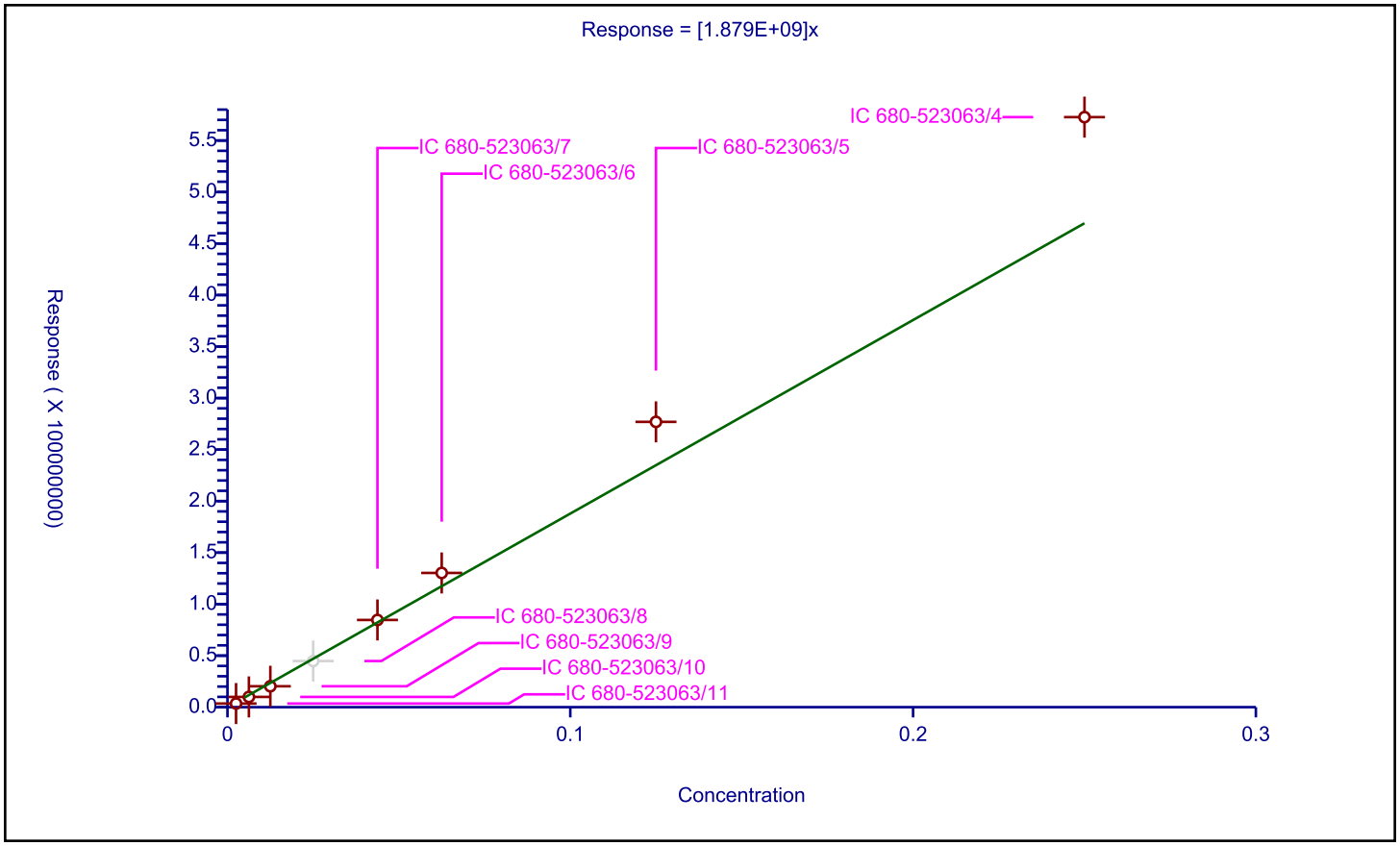
Curve Coefficients

Intercept:	0
Slope:	1.879E+09

Error Coefficients

Standard Error:	45800000
Relative Standard Error:	18.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	3531202.0			1412480800.0	Y
2	IC 680-523063/10	0.00625	9932955.0			1589272800.0	Y
3	IC 680-523063/9	0.0125	20302486.0			1624198880.0	Y
4	IC 680-523063/8	0.025	44774730.0			1790989200.0	N
5	IC 680-523063/7	0.04375	84634924.0			1934512548.57143	Y
6	IC 680-523063/6	0.0625	130284362.0			2084549792.0	Y
7	IC 680-523063/5	0.125	276913650.0			2215309200.0	Y
8	IC 680-523063/4	0.25	572693944.0			2290775776.0	Y



Calibration / Chloramben

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

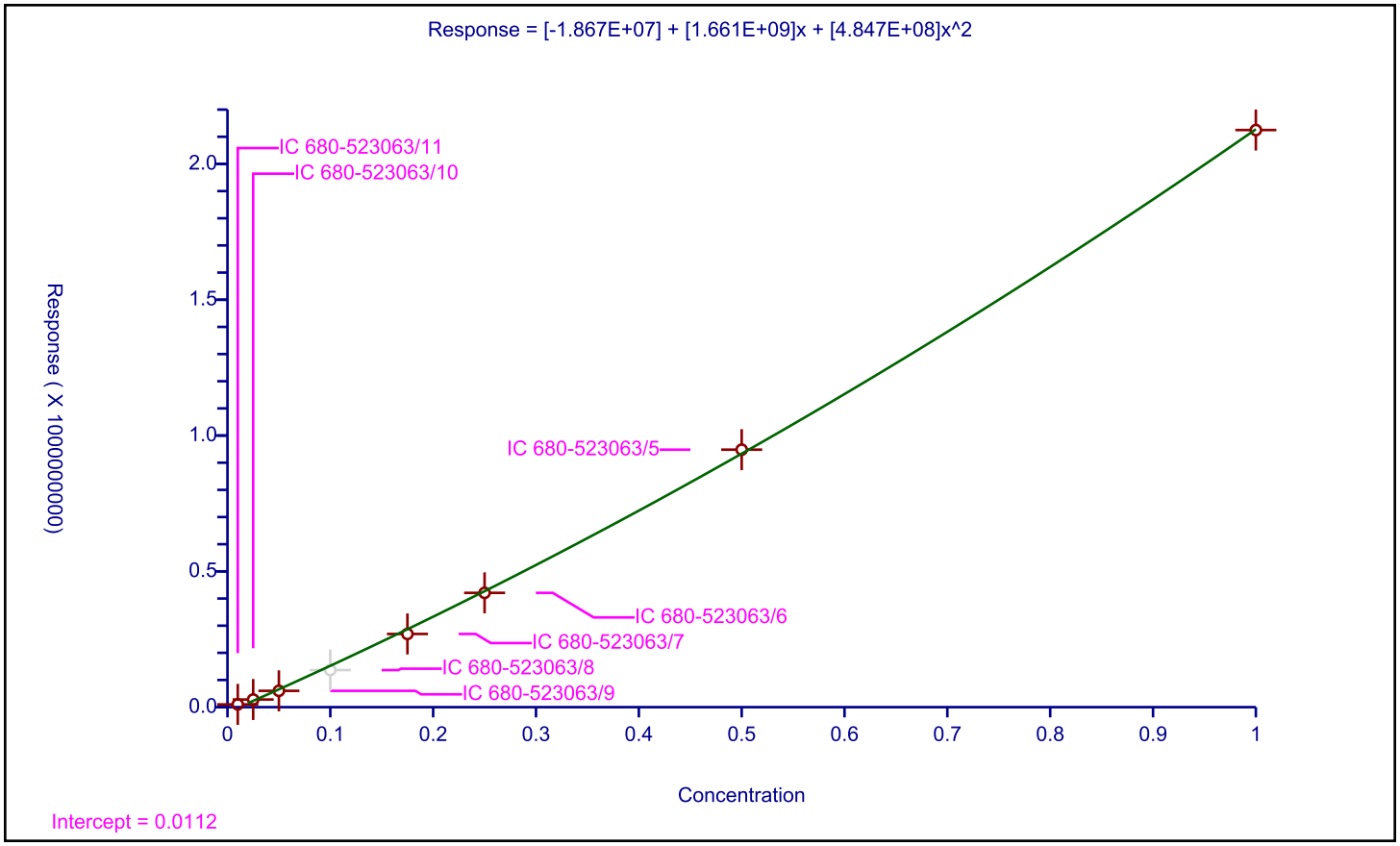
Curve Coefficients

Intercept:	-1.867E+07
Slope:	1.661E+09
Second Order:	4.847E+08

Error Coefficients

Standard Error:	13900000
Relative Standard Error:	37.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	10146304.0			1014630400.0	Y
2	IC 680-523063/10	0.025	28147981.0			1125919240.0	Y
3	IC 680-523063/9	0.05	60085684.0			1201713680.0	Y
4	IC 680-523063/8	0.1	136550994.0			1365509940.0	N
5	IC 680-523063/7	0.175	269520100.0			1540114857.14286	Y
6	IC 680-523063/6	0.25	420812351.0			1683249404.0	Y
7	IC 680-523063/5	0.5	948055347.0			1896110694.0	Y
8	IC 680-523063/4	1.0	2124806109.0			2124806109.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

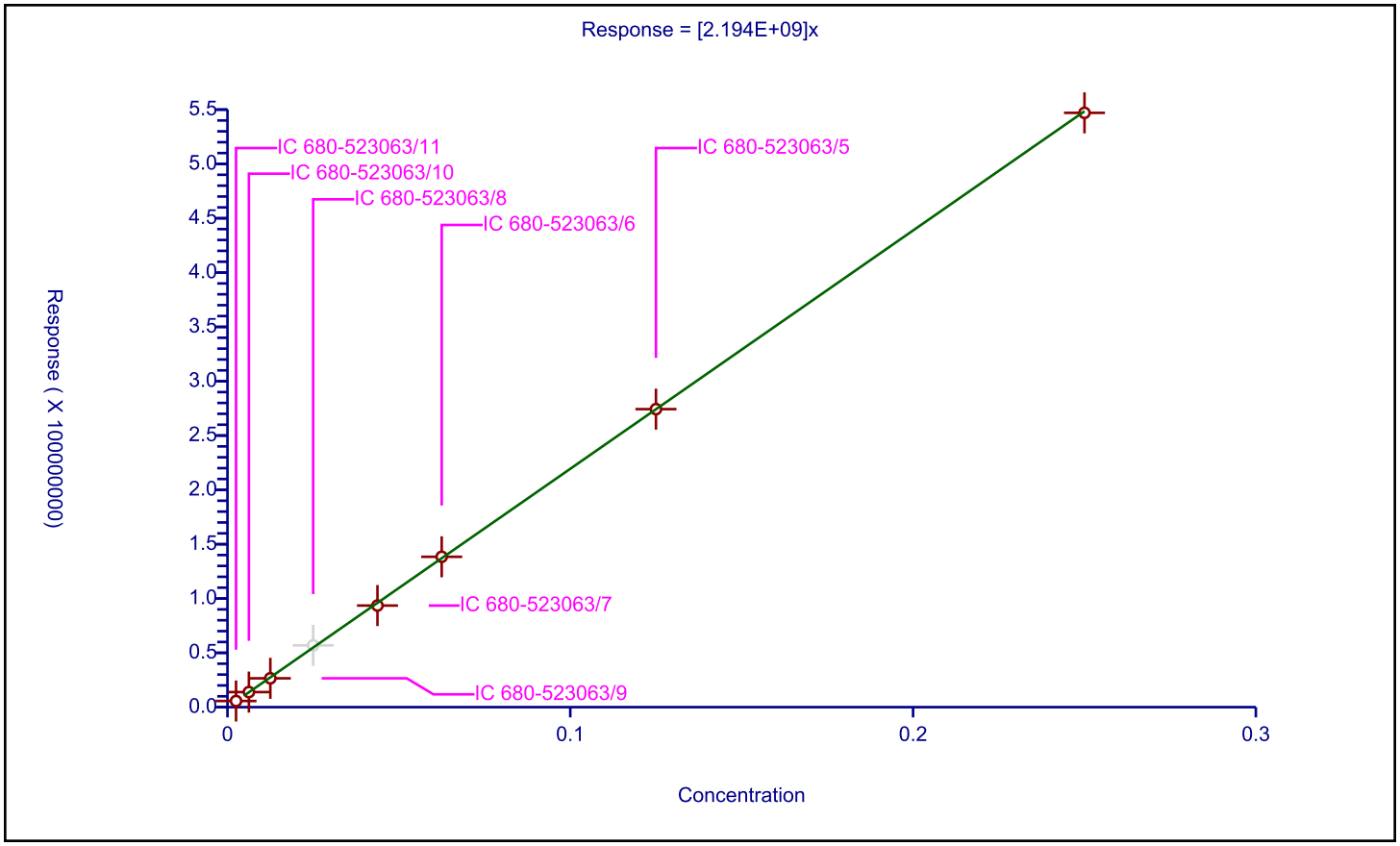
Curve Coefficients

Intercept:	0
Slope:	2.194E+09

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	5683855.0			2273542000.0	Y
2	IC 680-523063/10	0.00625	13893399.0			2222943840.0	Y
3	IC 680-523063/9	0.0125	26566988.0			2125359040.0	Y
4	IC 680-523063/8	0.025	56867356.0			2274694240.0	N
5	IC 680-523063/7	0.04375	93534318.0			2137927268.57143	Y
6	IC 680-523063/6	0.0625	138404340.0			2214469440.0	Y
7	IC 680-523063/5	0.125	274321777.0			2194574216.0	Y
8	IC 680-523063/4	0.25	547016891.0			2188067564.0	Y



Calibration / 2,4-DB

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

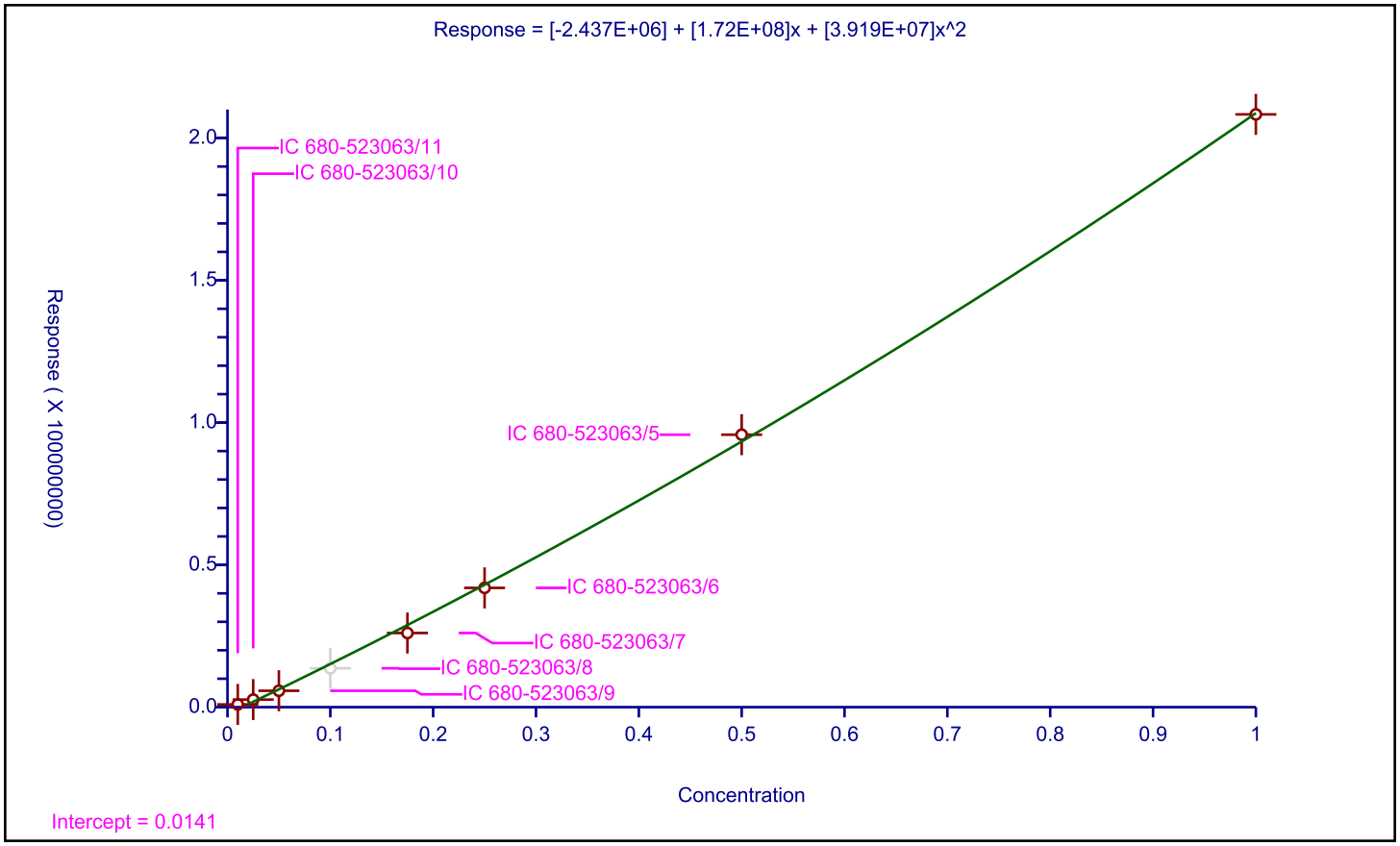
Curve Coefficients

Intercept:	-2.437E+06
Slope:	1.72E+08
Second Order:	3.919E+07

Error Coefficients

Standard Error:	2160000
Relative Standard Error:	49.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	957156.0			95715600.0	Y
2	IC 680-523063/10	0.025	2666490.0			106659600.0	Y
3	IC 680-523063/9	0.05	5762851.0			115257020.0	Y
4	IC 680-523063/8	0.1	13655211.0			136552110.0	N
5	IC 680-523063/7	0.175	26059778.0			148913017.142857	Y
6	IC 680-523063/6	0.25	41914777.0			167659108.0	Y
7	IC 680-523063/5	0.5	95758632.0			191517264.0	Y
8	IC 680-523063/4	1.0	208315295.0			208315295.0	Y



Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

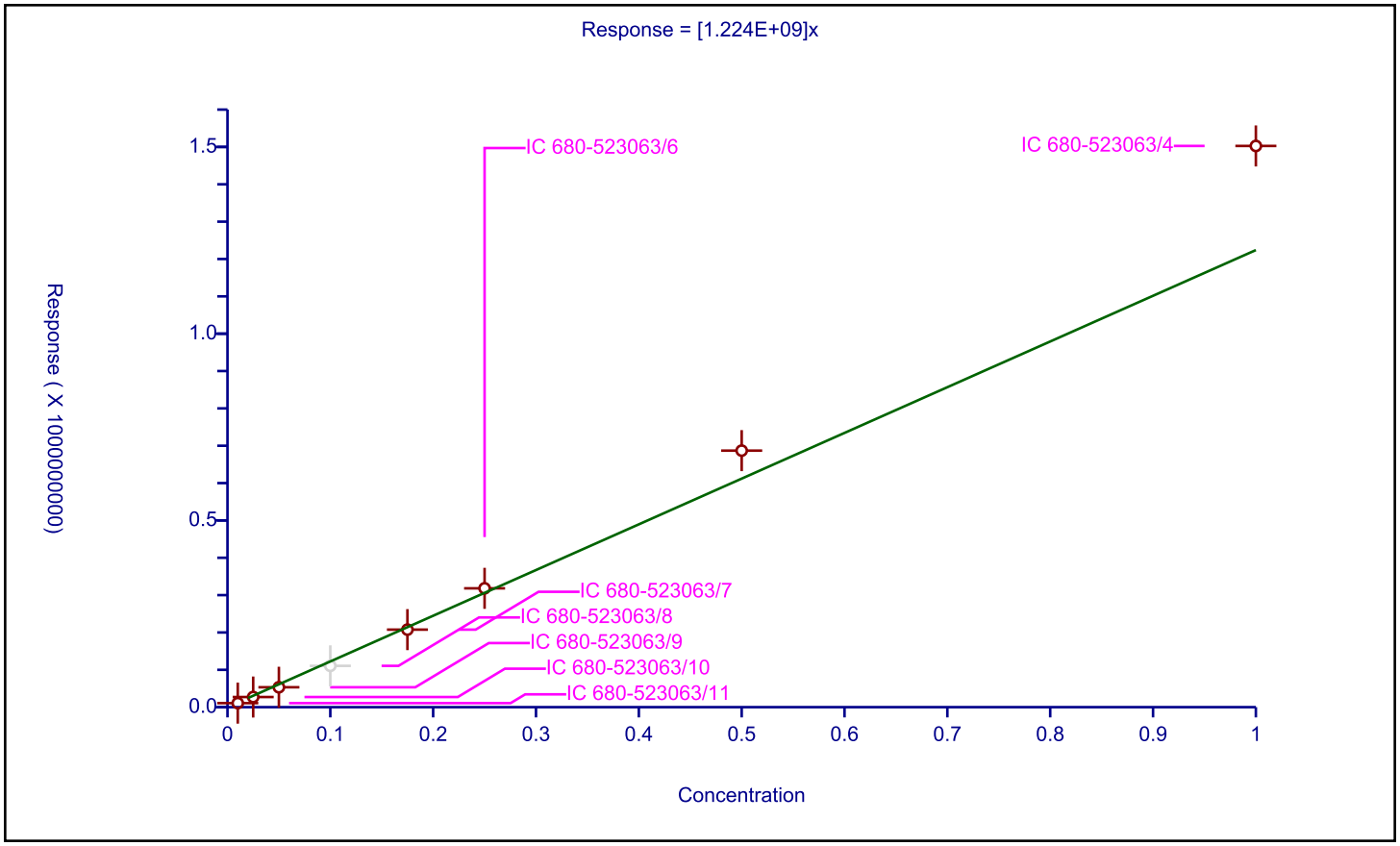
Curve Coefficients

Intercept:	0
Slope:	1.224E+09

Error Coefficients

Standard Error:	118000000
Relative Standard Error:	13.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	10802376.0			1080237600.0	Y
2	IC 680-523063/10	0.025	27141219.0			1085648760.0	Y
3	IC 680-523063/9	0.05	53295649.0			1065912980.0	Y
4	IC 680-523063/8	0.1	110631354.0			1106313540.0	N
5	IC 680-523063/7	0.175	207576561.0			1186151777.14286	Y
6	IC 680-523063/6	0.25	318205530.0			1272822120.0	Y
7	IC 680-523063/5	0.5	686899035.0			1373798070.0	Y
8	IC 680-523063/4	1.0	1502700567.0			1502700567.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

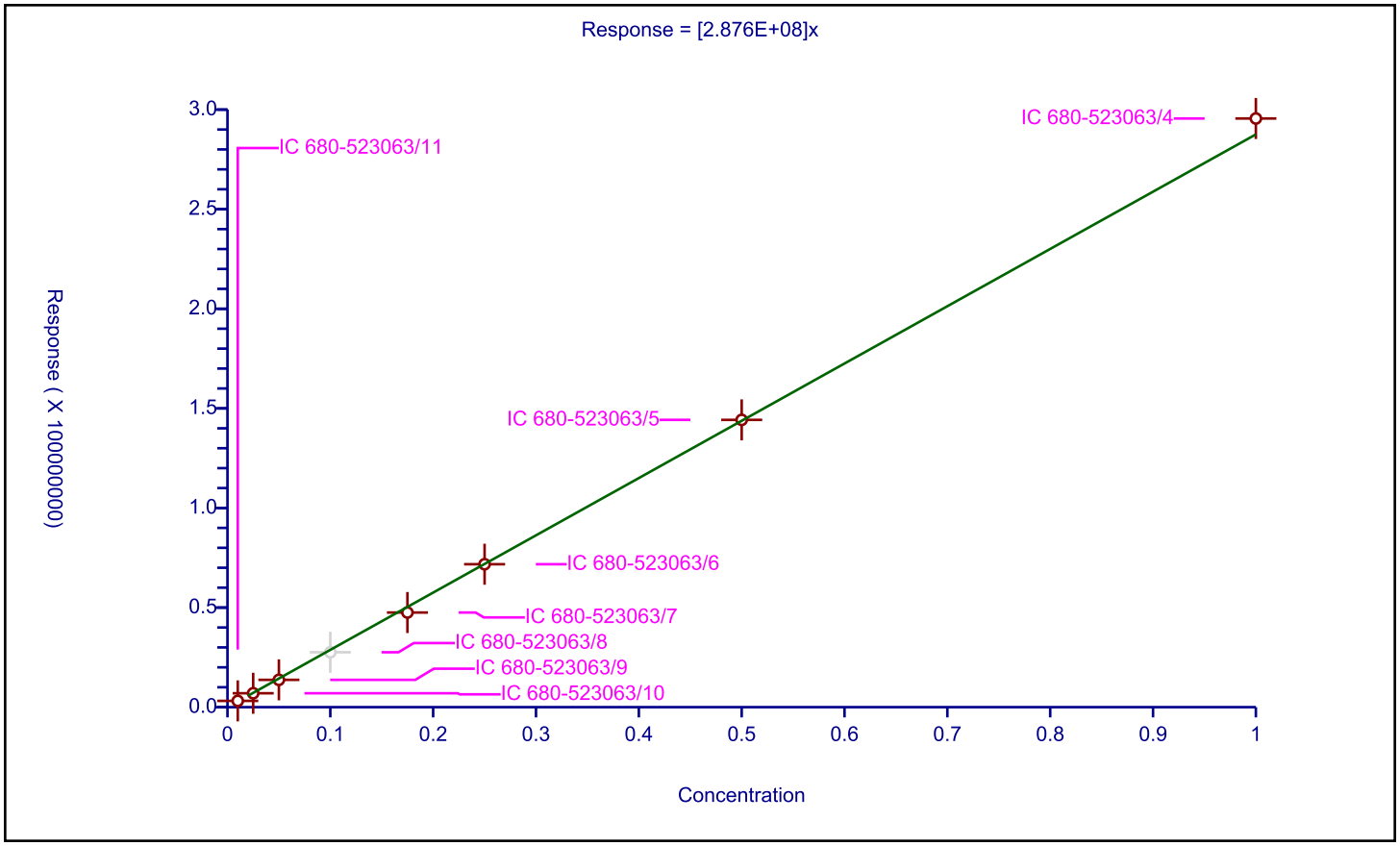
Curve Coefficients

Intercept:	0
Slope:	2.876E+08

Error Coefficients

Standard Error:	3480000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	3164677.0			316467700.0	Y
2	IC 680-523063/10	0.025	6986266.0			279450640.0	Y
3	IC 680-523063/9	0.05	13719455.0			274389100.0	Y
4	IC 680-523063/8	0.1	27567147.0			275671470.0	N
5	IC 680-523063/7	0.175	47511232.0			271492754.285714	Y
6	IC 680-523063/6	0.25	71761268.0			287045072.0	Y
7	IC 680-523063/5	0.5	144238238.0			288476476.0	Y
8	IC 680-523063/4	1.0	295542031.0			295542031.0	Y



Calibration / Picloram

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

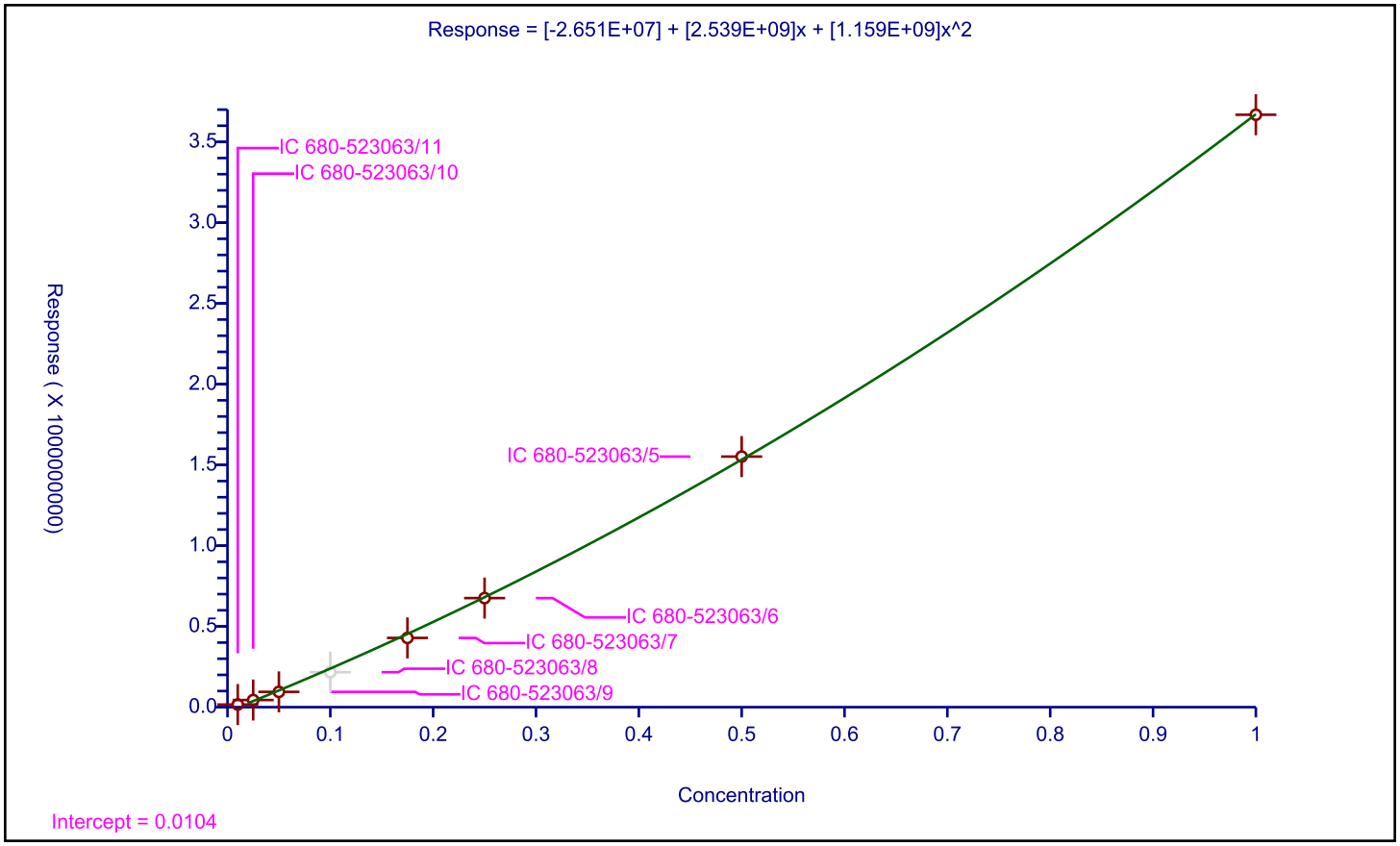
Curve Coefficients

Intercept:	-2.651E+07
Slope:	2.539E+09
Second Order:	1.159E+09

Error Coefficients

Standard Error:	18800000
Relative Standard Error:	34.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	16249913.0			1624991300.0	Y
2	IC 680-523063/10	0.025	44134008.0			1765360320.0	Y
3	IC 680-523063/9	0.05	94759287.0			1895185740.0	Y
4	IC 680-523063/8	0.1	216808821.0			2168088210.0	N
5	IC 680-523063/7	0.175	428630902.0			2449319440.0	Y
6	IC 680-523063/6	0.25	675298882.0			2701195528.0	Y
7	IC 680-523063/5	0.5	1551637070.0			3103274140.0	Y
8	IC 680-523063/4	1.0	3668133130.0			3668133130.0	Y



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

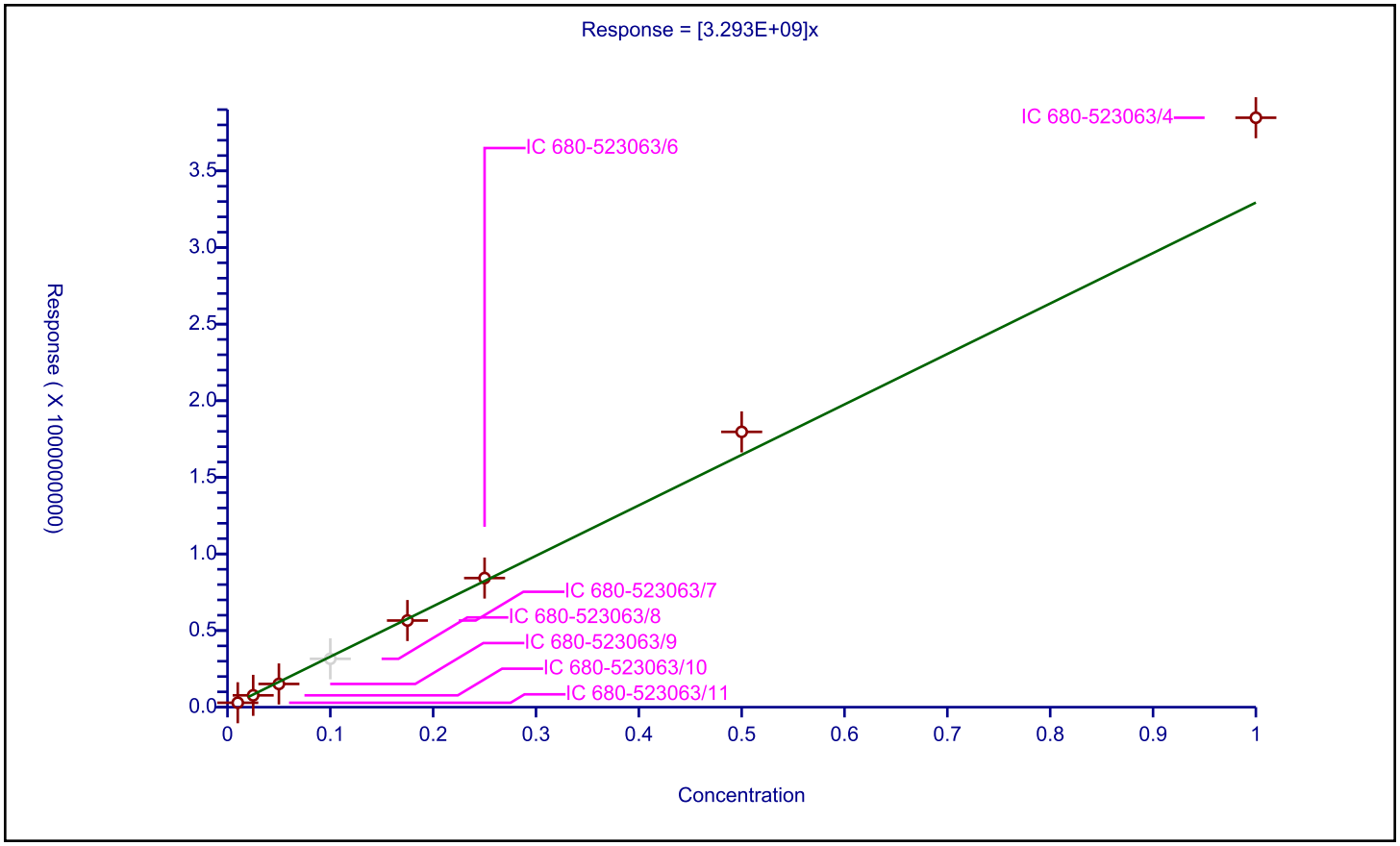
Curve Coefficients

Intercept:	0
Slope:	3.293E+09

Error Coefficients

Standard Error:	235000000
Relative Standard Error:	10.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	28939470.0			2893947000.0	Y
2	IC 680-523063/10	0.025	77163736.0			3086549440.0	Y
3	IC 680-523063/9	0.05	151449071.0			3028981420.0	Y
4	IC 680-523063/8	0.1	315619469.0			3156194690.0	N
5	IC 680-523063/7	0.175	565445884.0			3231119337.14286	Y
6	IC 680-523063/6	0.25	842695237.0			3370780948.0	Y
7	IC 680-523063/5	0.5	1796815722.0			3593631444.0	Y
8	IC 680-523063/4	1.0	3847093339.0			3847093339.0	Y



Calibration / Acifluorfen

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

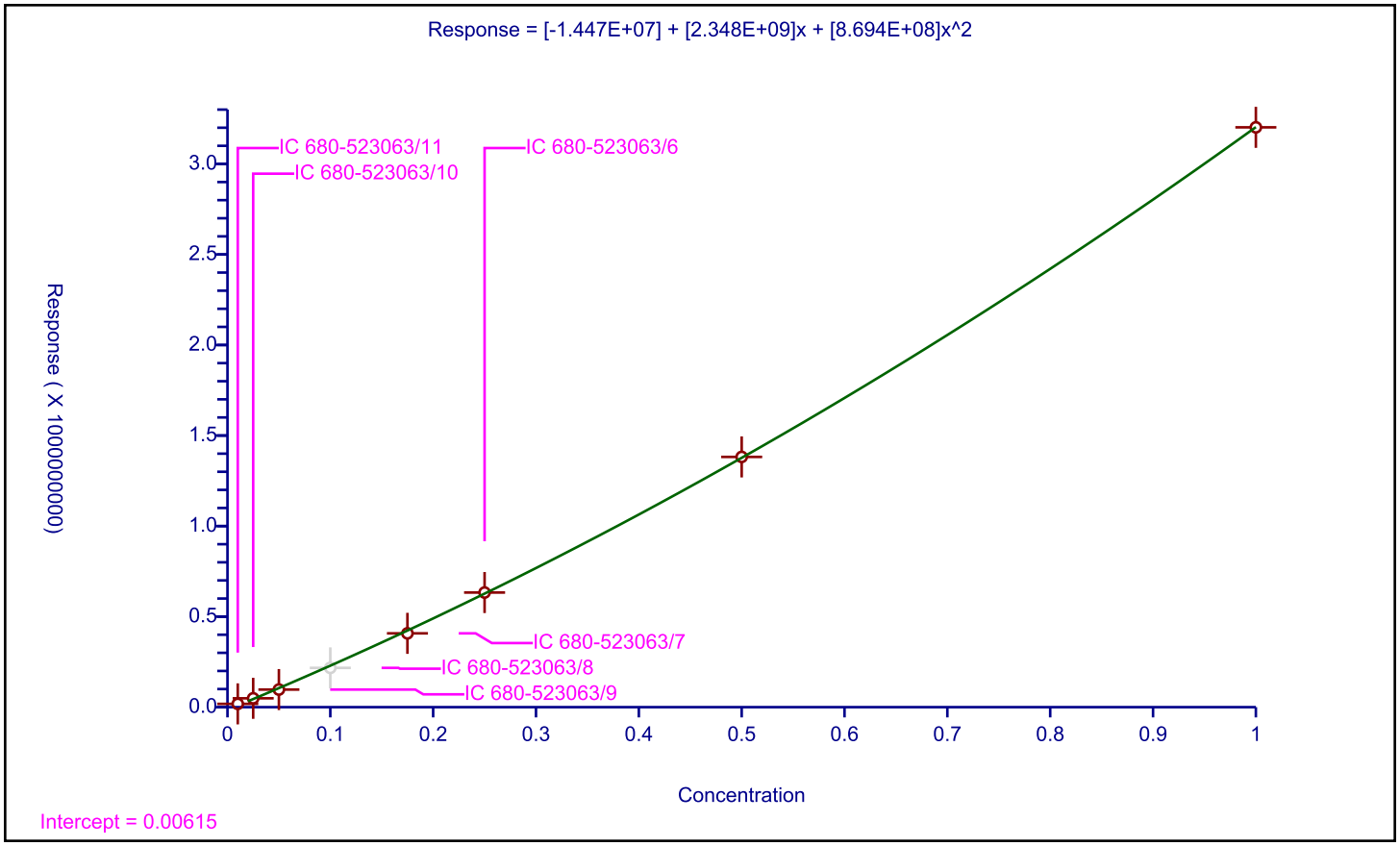
Curve Coefficients

Intercept:	-1.447E+07
Slope:	2.348E+09
Second Order:	8.694E+08

Error Coefficients

Standard Error:	10800000
Relative Standard Error:	19.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	18199991.0			1819999100.0	Y
2	IC 680-523063/10	0.025	48982390.0			1959295600.0	Y
3	IC 680-523063/9	0.05	97225812.0			1944516240.0	Y
4	IC 680-523063/8	0.1	217026310.0			2170263100.0	N
5	IC 680-523063/7	0.175	407675485.0			2329574200.0	Y
6	IC 680-523063/6	0.25	633038479.0			2532153916.0	Y
7	IC 680-523063/5	0.5	1382056162.0			2764112324.0	Y
8	IC 680-523063/4	1.0	3202033523.0			3202033523.0	Y



FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	2.633	2.632	2.632	+++++	2.633	2.633	2.634	2.635			2.612 - 2.652	2.633
3,5-Dichlorobenzoic acid	6.119	6.118	6.116	+++++	6.116	6.117	6.116	6.118			6.106 - 6.126	6.117
4-Nitrophenol	6.516	6.511	6.506	+++++	6.504	6.503	6.503	6.503			6.495 - 6.515	6.507
Dicamba	6.911	6.910	6.909	+++++	6.911	6.911	6.911	6.914			6.900 - 6.920	6.911
MCPP	6.956	6.955	6.955	+++++	6.955	6.956	6.957	6.960			6.945 - 6.965	6.956
MCPA	7.156	7.155	7.154	+++++	7.153	7.155	7.157	7.161			7.145 - 7.165	7.156
Dichlorprop	7.299	7.298	7.297	+++++	7.296	7.298	7.298	7.300			7.287 - 7.307	7.298
2,4-D	7.531	7.524	7.520	+++++	7.515	7.516	7.515	7.517			7.507 - 7.527	7.520
Pentachlorophenol	7.713	7.713	7.713	+++++	7.713	7.715	7.716	7.718			7.704 - 7.724	7.714
Silvex (2,4,5-TP)	7.851	7.850	7.846	+++++	7.845	7.846	7.846	7.848			7.836 - 7.856	7.847
2,4,5-T	8.089	8.090	8.086	+++++	8.080	8.079	8.080	8.082			8.073 - 8.093	8.084
Chloramben	8.171	8.167	8.164	+++++	8.159	8.159	8.160	8.161			8.152 - 8.172	8.163
Dinoseb	8.251	8.250	8.248	+++++	8.246	8.248	8.250	+++++			8.238 - 8.258	8.249
2,4-DB	8.312	8.308	8.305	+++++	8.298	8.298	8.297	8.298			8.292 - 8.312	8.302
Bentazon	8.665	8.665	8.663	+++++	8.661	8.661	8.663	8.664			8.652 - 8.672	8.663
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.777	8.776	8.775	+++++	8.776	8.778	8.779	+++++			8.765 - 8.785	8.777
Picloram	9.014	9.011	9.009	+++++	9.005	9.005	9.005	9.011			8.995 - 9.015	9.009
Acifluorfen	9.794	9.795	9.791	+++++	9.791	9.793	9.794	+++++			9.782 - 9.802	9.793
2,4-Dichlorophenylacetic acid (Surr)	6.831	6.830	6.829	+++++	6.829	6.829	6.830	6.831			6.819 - 6.839	6.830

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	1798315000 1517639326	1597318040 1581217208	1427568040 1635156782	+++++ 1725206867	Ave		1611774466				7.7		20.0			
3,5-Dichlorobenzoic acid	1837751300 1719390389	1760637040 1795246728	1650502760 1861053578	+++++ 1954171685	Ave		1796964783				5.5		20.0			
4-Nitrophenol	250653100 298246994	296649000 310426996	284918460 317392232	+++++ 334991246	Ave		299039718				9.0		20.0			
Dicamba	4724154000 4909954011	4686290000 5207323320	4534968280 5388006568	+++++ 5612732658	Ave		5009061262				8.0		20.0			
MCPP	7884133 4400635	6527974 4455255	5267855 4112711	+++++ 4449376	Lin2	3788366.60	4364984.05							0.9920		0.9900
MCPA	12132999 6957302	9867461 7087687	8095742 7726907	+++++ 11515156	QuaF		4913346.02	65572.7829						0.9990		0.9900
Dichlorprop	1530191200 1322496080	1346912320 1409029084	1248497660 1439600954	+++++ 1571966456	Ave		1409813393				8.2		20.0			
2,4-D	1455119800 1556427354	1427833320 1676989976	1378379440 1771254978	+++++ 1888747044	Ave		1593535987				12.0		20.0			
Pentachlorophenol	1646620640 1921739513 1	1720147248 2048464648 0	1719712904 2107629804 8	+++++ 2001760539 2	Ave		1.88087 E+010				9.8		20.0			
Silvex (2,4,5-TP)	6485508800 7411297737	6285531520 8011168944	6291178480 8488161760	+++++ 8766407800	Ave		7391322149				14.3		20.0			
2,4,5-T	5682918800 6570901349	5548829280 7200468352	5460540320 7796556056	+++++ 8265532020	Ave		6646535168				17.2		20.0			
Chloramben	4517941700 5823723000	4700489400 6340874844	4806727860 6796592718	+++++ 6392220091	Ave		5625509945				16.6		20.0			
Dinoseb	3007780400 3932806634	3092280280 4418115380	3099206900 4877825682	+++++ +++++	Lin1	-31374720	4635917151							0.9910		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4-DB	1087197600 952251726	1042060800 938110360	932485740 949664730	+++++ 1002259721	Ave		986290097				6.0		20.0			
Bentazon	780397900 785549754	726060480 836756404	711301340 879775606	+++++ 907942100	Ave		803969083				9.3		20.0			
Tetraphthalic acid, tetrachloro-, dimethyl	8667279600 1014672696 6	9065814440 1093590900 4	9037626500 1107339231 0	+++++ +++++	Ave		9821124803				10.6		20.0			
Picloram	5712837000 8850117086	6224124840 1018179070 4	6570648740 1156032159 2	+++++ 1146749100 7	Lin1	-105453629	1.12544 E+010							0.9930		0.9900
Acifluorfen	4064524500 7109623114	4814379800 8392297836	4971738380 9541817032	+++++ +++++	Qua	-69625687	6996898522	5409687578						0.9990		0.9900
2,4-Dichlorophenylacetic acid (Surr)	1435947500 1343087074	1388925080 1413952480	1300050800 1434982086	+++++ 1537345376	Ave		1407755771				5.4		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Ave	17983150 395304302	39932951 817578391	71378402 1725206867	+++++	265586882	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
3,5-Dichlorobenzoic acid	Ave	18377513 448811682	44015926 930526789	82525138 1954171685	+++++	300893318	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
4-Nitrophenol	Ave	2506531 77606749	7416225 158696116	14245923 334991246	+++++	52193224	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dicamba	Ave	23620770 650915415	58578625 1347001642	113374207 2806366329	+++++	429620976	0.00500 0.125	0.0125 0.250	0.0250 0.500	+++++	0.0875
MCPP	Lin2	7884133 111381364	16319936 205635557	26339273 444937631	+++++	77011106	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
MCPA	QuaF	12132999 177192173	24668652 386345329	40478712 1151515629	+++++	121752778	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
Dichlorprop	Ave	15301912 352257271	33672808 719800477	62424883 1571966456	+++++	231436814	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4-D	Ave	14551198 419247494	35695833 885627489	68918972 1888747044	+++++	272374787	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Pentachlorophenol	Ave	41165516 1280290405	107509203 2634537256	214964113 5004401348	+++++	840761037	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Silvex (2,4,5-TP)	Ave	16213772 500698059	39284572 1061020220	78639731 2191601950	+++++	324244276	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
2,4,5-T	Ave	14207297 450029272	34680183 974569507	68256754 2066383005	+++++	287476934	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Chloramben	Ave	45179417 1585218711	117512235 3398296359	240336393 6392220091	+++++	1019151525	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dinoseb	Lin1	30077804 1104528845	77307007 2438912841	154960345 +++++	+++++	688241161	0.0100 0.250	0.0250 0.500	0.0500 +++++	+++++	0.175
2,4-DB	Ave	10871976 234527590	26051520 474832365	46624287 1002259721	+++++	166644052	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Bentazon	Ave	7803979 209189101	18151512 439887803	35565067 907942100	+++++	137471207	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151914-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	86672796 2733977251	226645361 5536696155	451881325 +++++	+++++	1775677219	0.0100 0.250	0.0250 0.500	0.0500 +++++	+++++	0.175
Picloram	Lin1	57128370 2545447676	155603121 5780160796	328532437 1467491007	+++++	1548770490	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Acifluorfen	Qua	40645245 2098074459	120359495 4770908516	248586919 +++++	+++++	1244184045	0.0100 0.250	0.0250 0.500	0.0500 +++++	+++++	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	14359475 353488120	34723127 717491043	65002540 1537345376	+++++	235040238	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
Qua = Quadratic
QuaF = Quadratic forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-May-2018 11:58:00 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:24:59 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:07:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	511012321	1.00	0.9751	
2	2.635	2.632	0.003	1725206867	1.00	1.07	
						RPD = 9.32	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	95938059	NC	NC	
2	5.103	5.102	0.001	555849594	NC	NC	
						RPD = 4.71	
3 2,4,6-Trichlorophenol							
1	5.788	5.786	0.002	1387562807	NC	NC	
2	5.780	5.776	0.004	5355785086	NC	NC	
						RPD = 10.60	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	337068861	1.00	1.05	
2	6.118	6.116	0.002	1954171685	1.00	1.09	
						RPD = 3.63	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	97562965	1.00	1.06	
2	6.503	6.505	-0.002	334991246	1.00	1.12	
						RPD = 5.98	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	214663766	1.00	1.02	
2	6.831	6.829	0.002	1537345376	1.00	1.09	
						RPD = 7.31	
7 Dicamba							
1	6.721	6.720	0.001	585243873	0.5000	0.5434	
2	6.914	6.910	0.004	2806366329	0.5000	0.5603	
						RPD = 3.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.872	6.867	0.005	104343971	100.0	99.8	
2	6.960	6.955	0.005	444937631	100.0	101.1	
						RPD = 1.25	
9 MCPA							
1	7.000	6.994	0.006	98467290	100.0	106.3	
2	7.161	7.155	0.006	1151515629	100.0	100.2	
						RPD = 5.90	
10 Dichlorprop							
1	7.181	7.180	0.001	290874356	1.00	1.05	
2	7.300	7.297	0.003	1571966456	1.00	1.12	
						RPD = 6.18	
11 2,4-D							
1	7.323	7.326	-0.003	357181097	1.00	1.18	
2	7.517	7.517	0.000	1888747044	1.00	1.19	
						RPD = 0.35	
12 Pentachlorophenol							
1	7.675	7.674	0.001	1628549099	0.2500	0.3025	
2	7.718	7.714	0.004	5004401348	0.2500	0.2661	
						RPD = 12.81	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	572693944	0.2500	0.3048	
2	7.848	7.846	0.002	2191601950	0.2500	0.2965	
						RPD = 2.77	
14 Chloramben							
1	7.848	7.855	-0.007	2124806109	1.00	1.00	
2	8.161	8.162	-0.001	6392220091	1.00	1.14	
						RPD = 12.86	
15 2,4,5-T							
1	7.923	7.929	-0.006	547016891	0.2500	0.2493	
2	8.082	8.083	-0.001	2066383005	0.2500	0.3109	
						RPD = 21.97	
16 2,4-DB							
1	8.167	8.175	-0.008	208315295	1.00	1.00	
2	8.298	8.302	-0.004	1002259721	1.00	1.02	
						RPD = 1.78	
17 Dinoseb							
1	8.224	8.224	0.000	1502700567	1.00	1.23	
2	8.252	8.248	0.004	4922703086	1.00	1.07	
						RPD = 13.86	
18 Bentazon							
1	8.299	8.300	-0.001	295542031	1.00	1.03	
2	8.664	8.662	0.002	907942100	1.00	1.13	
						RPD = 9.41	
19 Picloram							M
1	8.523	8.529	-0.006	3668133130	1.00	1.00	
2	9.011	9.005	0.006	11467491007	1.00	1.03	M
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	3847093339	1.00	1.17	
2	8.784	8.775	0.009	9887348056	1.00	1.01	
						RPD = 14.85	
21 Acifluorfen							M
1	9.667	9.666	0.001	3202033523	1.00	1.00	
2	9.799	9.792	0.007	9631196972	1.00	0.8404	M
						RPD = 17.32	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

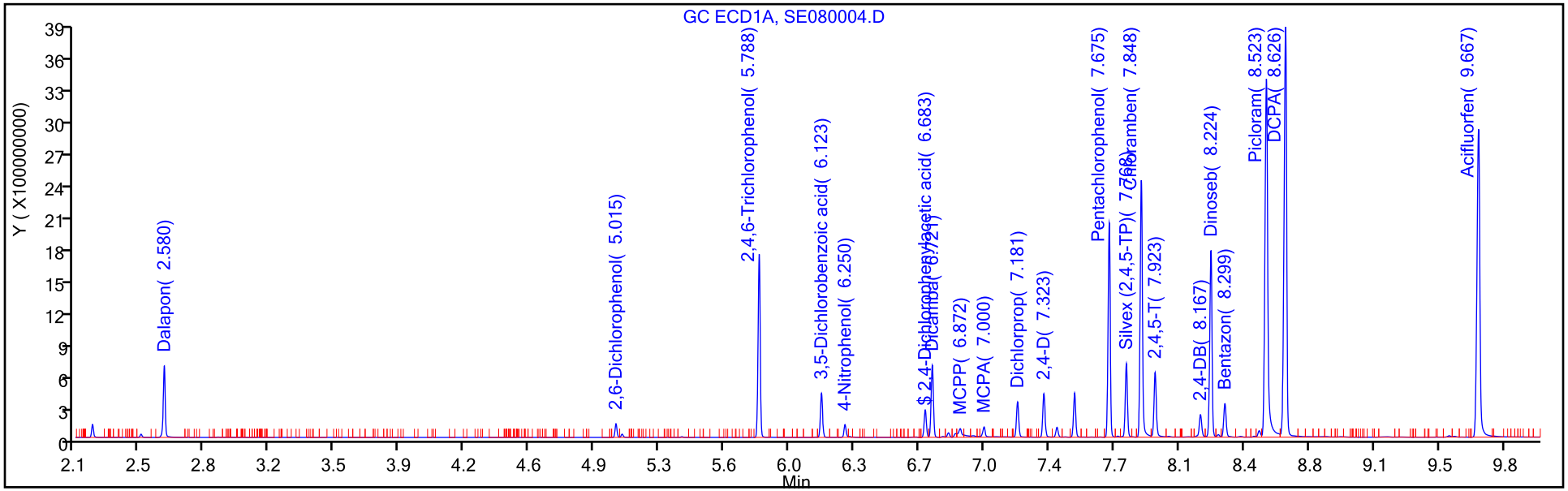
Report Date: 08-May-2018 16:25:00 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

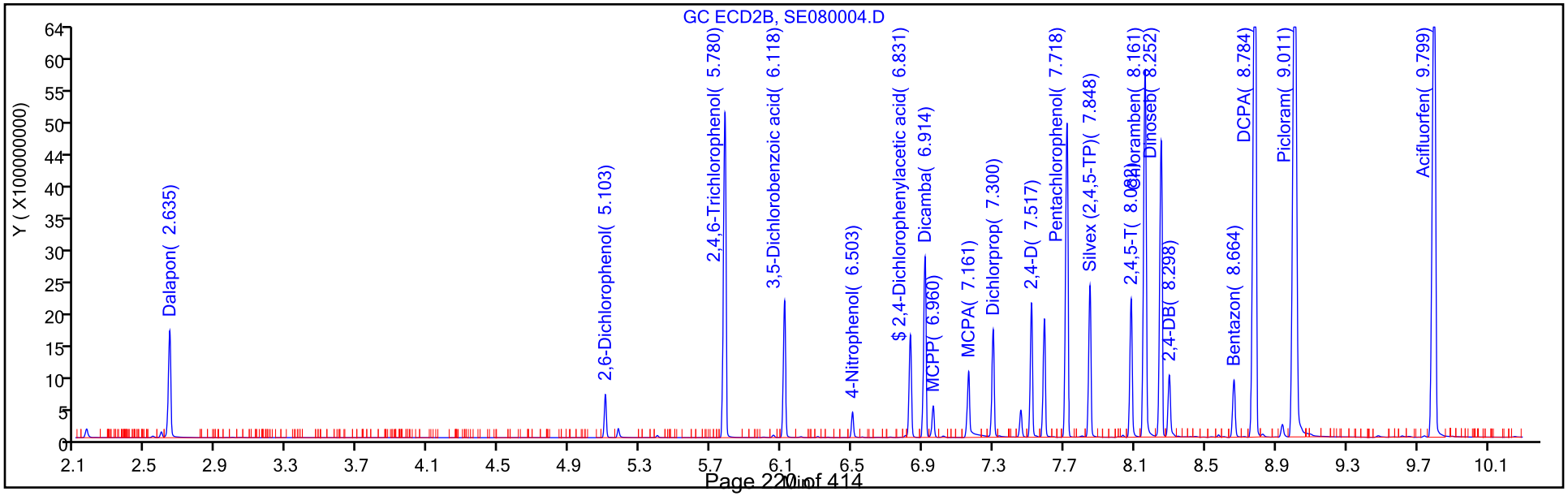
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D

Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

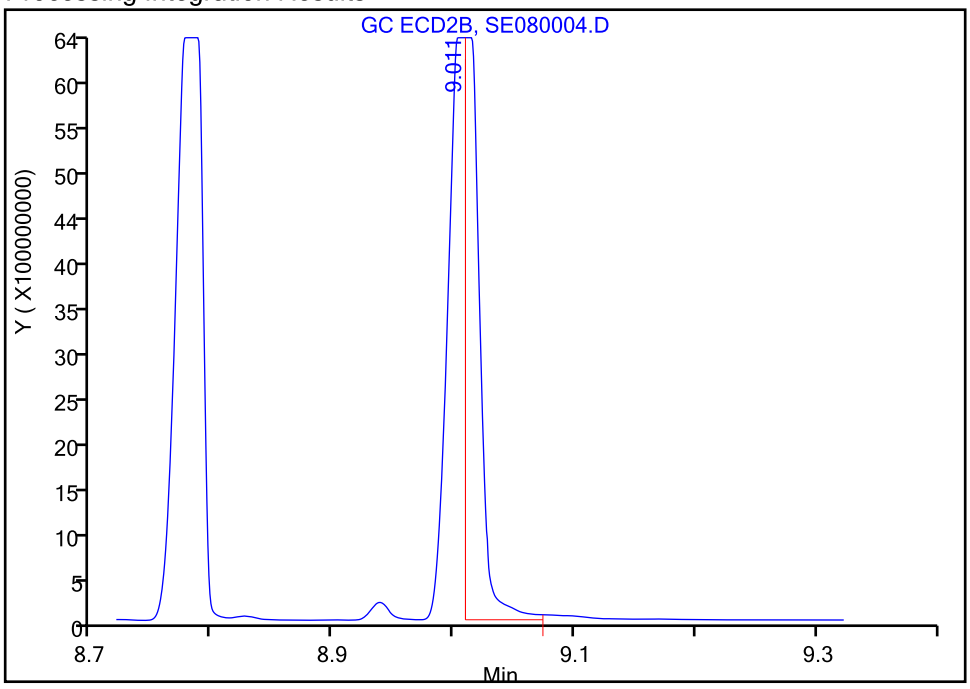
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D				
Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

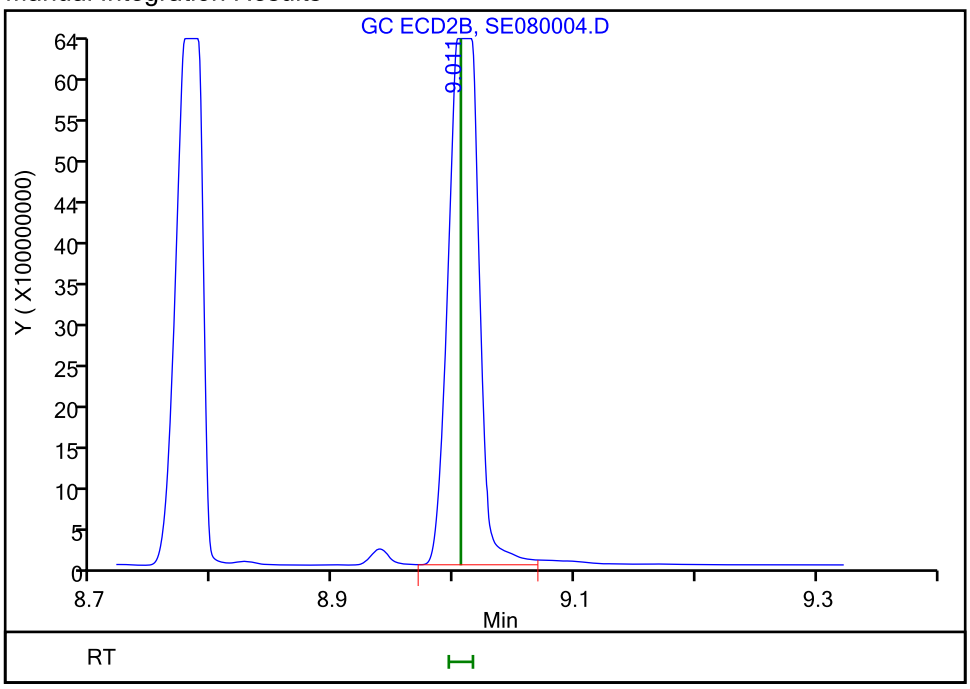
Processing Integration Results

RT: 9.01
Area: 5287226212
Amount: 0.658684
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 11467491007
Amount: 1.028306
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:07:43

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

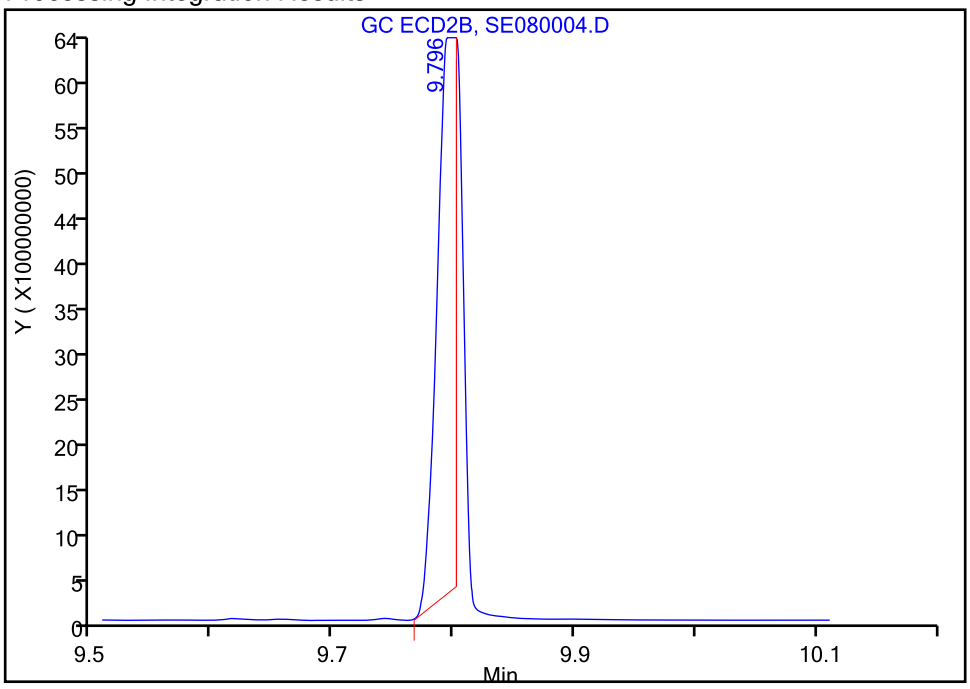
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D				
Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

21 Acifluorfen, CAS: 50594-66-6

Signal: 2

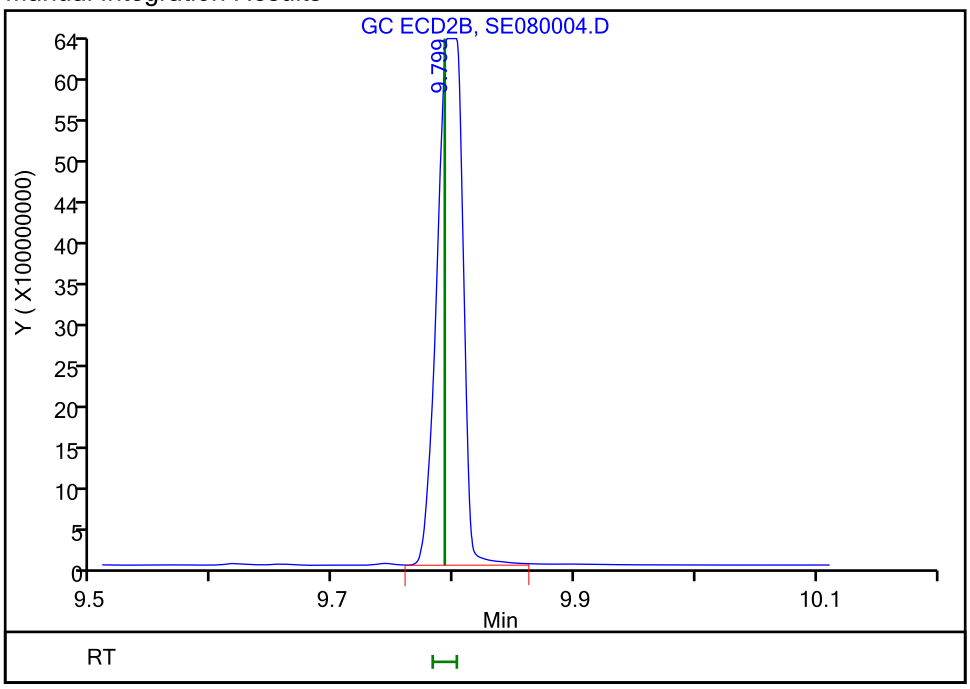
Processing Integration Results

RT: 9.80
Area: 6439853161
Amount: 1.004323
Amount Units: ug/ml



Manual Integration Results

RT: 9.80
Area: 9631196972
Amount: 0.840395
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:07:45

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-May-2018 12:17:37 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:07 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	252815070	0.5000	0.4824	
2	2.634	2.632	0.002	817578391	0.5000	0.5073	
						RPD = 5.02	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	47948482	NC	NC	
2	5.102	5.102	0.000	271150549	NC	NC	
						RPD = 2.29	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	660797633	NC	NC	
2	5.779	5.776	0.003	2813586787	NC	NC	
						RPD = 0.79	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	165004902	0.5000	0.5134	
2	6.116	6.116	0.000	930526789	0.5000	0.5178	
						RPD = 0.87	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	48081748	0.5000	0.5200	
2	6.503	6.505	-0.002	158696116	0.5000	0.5307	
						RPD = 2.03	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	105220295	0.5000	0.4975	
2	6.830	6.829	0.001	717491043	0.5000	0.5097	
						RPD = 2.41	
7 Dicamba							
1	6.720	6.720	0.000	282435535	0.2500	0.2622	
2	6.911	6.910	0.001	1347001642	0.2500	0.2689	
						RPD = 2.51	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.870	6.867	0.003	39090261	50.0	51.7	
2	6.957	6.955	0.002	205635557	50.0	46.2	
						RPD = 11.18	
9 MCPA							
1	6.996	6.994	0.002	51596040	50.0	55.7	
2	7.157	7.155	0.002	386345329	50.0	47.9	
						RPD = 14.99	
10 Dichlorprop							
1	7.180	7.180	0.000	144063420	0.5000	0.5192	
2	7.298	7.297	0.001	719800477	0.5000	0.5106	
						RPD = 1.67	
11 2,4-D							
1	7.322	7.326	-0.004	172138047	0.5000	0.5692	
2	7.515	7.517	-0.002	885627489	0.5000	0.5558	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	762859467	0.1250	0.1417	
2	7.716	7.714	0.002	2634537256	0.1250	0.1401	
						RPD = 1.15	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	276913650	0.1250	0.1474	
2	7.846	7.846	0.000	1061020220	0.1250	0.1435	
						RPD = 2.64	
14 Chloramben							
1	7.849	7.855	-0.006	948055347	0.5000	0.5069	
2	8.160	8.162	-0.002	3398296359	0.5000	0.6041	
						RPD = 17.50	
15 2,4,5-T							
1	7.922	7.929	-0.007	274321777	0.1250	0.1250	
2	8.080	8.083	-0.003	974569507	0.1250	0.1466	
						RPD = 15.89	
16 2,4-DB							
1	8.167	8.175	-0.008	95758632	0.5000	0.5113	
2	8.297	8.302	-0.005	474832365	0.5000	0.4814	
						RPD = 6.02	
17 Dinoseb							
1	8.223	8.224	-0.001	686899035	0.5000	0.5612	
2	8.250	8.248	0.002	2438912841	0.5000	0.5329	
						RPD = 5.19	
18 Bentazon							
1	8.299	8.300	-0.001	144238238	0.5000	0.5016	
2	8.663	8.662	0.001	439887803	0.5000	0.5471	
						RPD = 8.68	
19 Picloram							
1	8.523	8.529	-0.006	1551637070	0.5000	0.5051	
2	9.005	9.005	0.000	5780160796	0.5000	0.5230	
						RPD = 3.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	1796815722	0.5000	0.5456	
2	8.779	8.775	0.004	5536696155	0.5000	0.5638	
						RPD = 3.27	
21 Acifluorfen							
1	9.665	9.666	-0.001	1382056162	0.5000	0.5016	
2	9.794	9.792	0.002	4770908516	0.5000	0.4992	
						RPD = 0.48	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

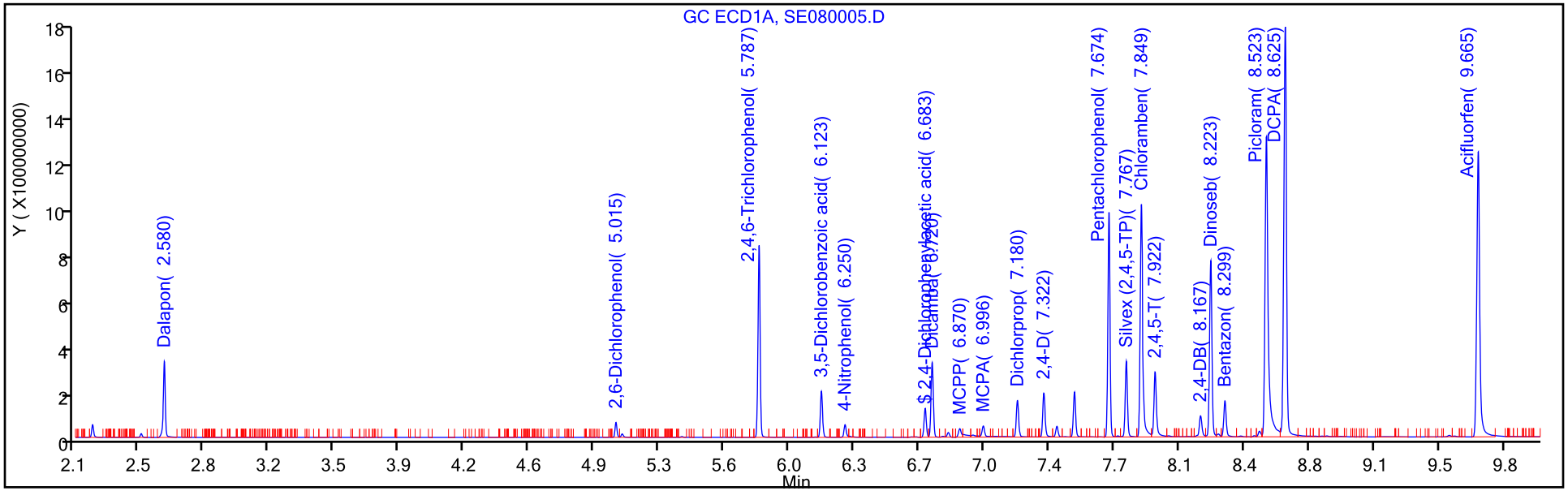
Report Date: 08-May-2018 16:25:09 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

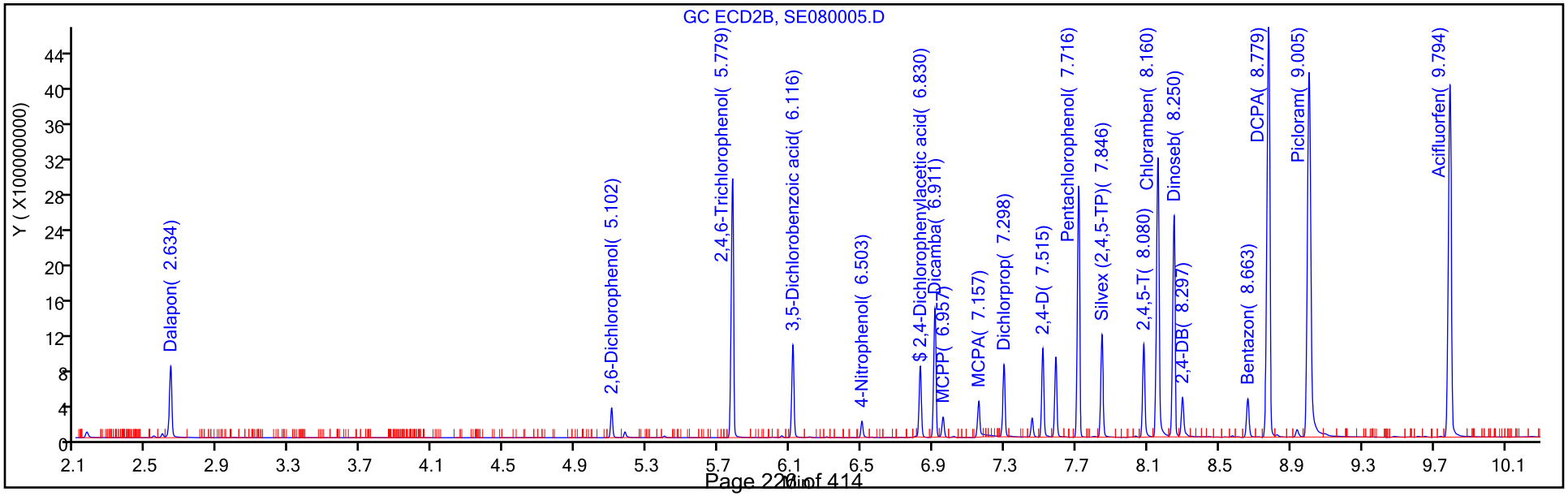
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D

Injection Date:	08-May-2018 12:17:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-May-2018 12:37:18 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:13 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	126339938	0.2500	0.2411	
2	2.633	2.632	0.001	395304302	0.2500	0.2453	
						RPD = 1.72	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	24075005	NC	NC	
2	5.102	5.102	0.000	134909465	NC	NC	
						RPD = 1.37	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	317115758	NC	NC	
2	5.778	5.776	0.002	1376798630	NC	NC	
						RPD = 1.15	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	81038461	0.2500	0.2521	
2	6.117	6.116	0.001	448811682	0.2500	0.2498	
						RPD = 0.94	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	26992258	0.2500	0.2919	
2	6.503	6.505	-0.002	77606749	0.2500	0.2595	
						RPD = 11.76	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	51149844	0.2500	0.2419	
2	6.829	6.829	0.000	353488120	0.2500	0.2511	
						RPD = 3.75	
7 Dicamba							
1	6.721	6.720	0.001	135663470	0.1250	0.1260	
2	6.911	6.910	0.001	650915415	0.1250	0.1299	
						RPD = 3.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	12687646	25.0	22.2	
2	6.956	6.955	0.001	111381364	25.0	24.6	
						RPD = 10.33	
9 MCPA							
1	6.995	6.994	0.001	25890792	25.0	28.0	
2	7.155	7.155	0.000	177192173	25.0	26.6	
						RPD = 4.94	
10 Dichlorprop							
1	7.181	7.180	0.001	70616500	0.2500	0.2545	
2	7.298	7.297	0.001	352257271	0.2500	0.2499	
						RPD = 1.83	
11 2,4-D							
1	7.323	7.326	-0.003	81489809	0.2500	0.2695	
2	7.516	7.517	-0.001	419247494	0.2500	0.2631	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	357293439	0.0625	0.0664	
2	7.715	7.714	0.001	1280290405	0.0625	0.0681	
						RPD = 2.54	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	130284362	0.0625	0.0693	
2	7.846	7.846	0.000	500698059	0.0625	0.0677	
						RPD = 2.34	
14 Chloramben							
1	7.850	7.855	-0.005	420812351	0.2500	0.2467	
2	8.159	8.162	-0.003	1585218711	0.2500	0.2818	
						RPD = 13.26	
15 2,4,5-T							
1	7.924	7.929	-0.005	138404340	0.0625	0.0631	
2	8.079	8.083	-0.004	450029272	0.0625	0.0677	
						RPD = 7.07	
16 2,4-DB							
1	8.169	8.175	-0.006	41914777	0.2500	0.2443	
2	8.298	8.302	-0.004	234527590	0.2500	0.2378	
						RPD = 2.69	
17 Dinoseb							
1	8.223	8.224	-0.001	318205530	0.2500	0.2600	
2	8.248	8.248	0.000	1104528845	0.2500	0.2450	
						RPD = 5.93	
18 Bentazon							
1	8.299	8.300	-0.001	71761268	0.2500	0.2496	
2	8.661	8.662	-0.001	209189101	0.2500	0.2602	
						RPD = 4.17	
19 Picloram							
1	8.525	8.529	-0.004	675298882	0.2500	0.2482	
2	9.005	9.005	0.000	2545447676	0.2500	0.2355	
						RPD = 5.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	842695237	0.2500	0.2559	
2	8.778	8.775	0.003	2733977251	0.2500	0.2784	
						RPD = 8.42	
21 Acifluorfen							
1	9.665	9.666	-0.001	633038479	0.2500	0.2522	
2	9.793	9.792	0.001	2098074459	0.2500	0.2582	
						RPD = 2.37	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

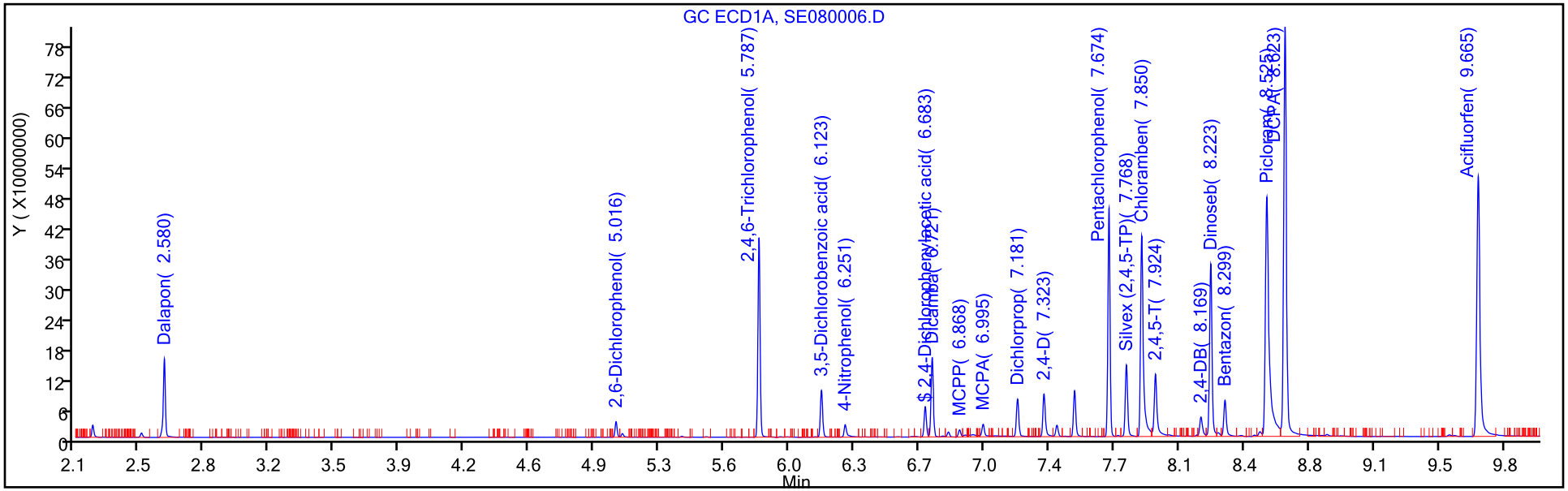
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TestAmerica Savannah

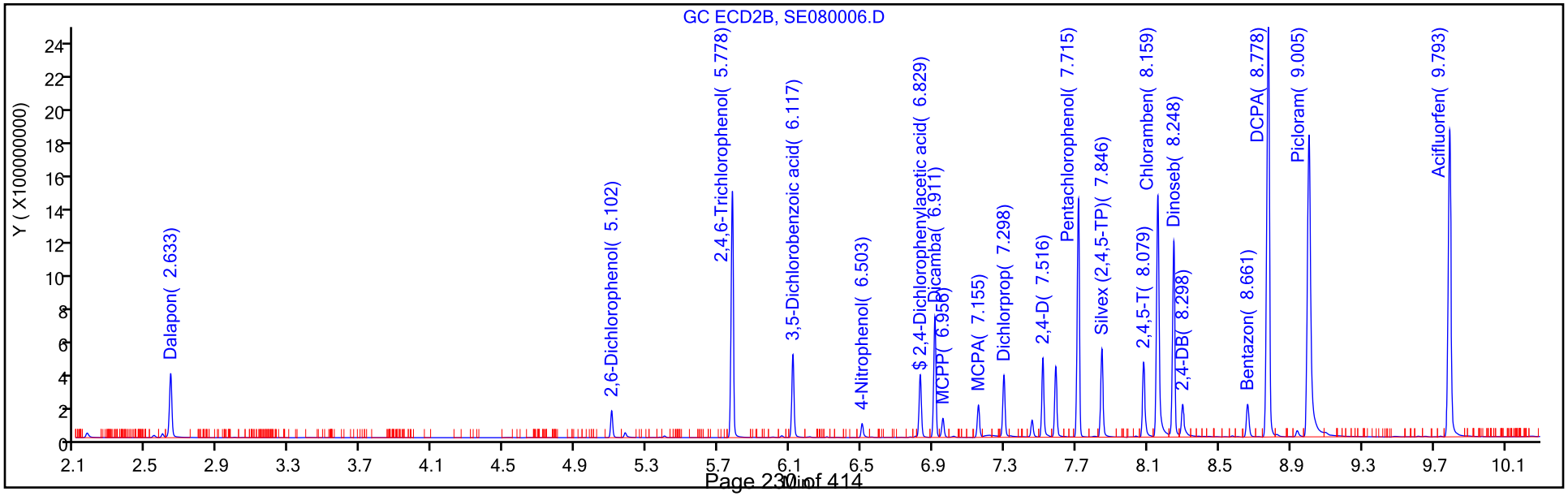
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080006.D

Injection Date:	08-May-2018 12:37:18	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-May-2018 12:56:54 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:18 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: meinckeg Date: 08-May-2018 13:25:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	87735176	0.1750	0.1674	
2	2.633	2.632	0.001	265586882	0.1750	0.1648	
						RPD = 1.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16721808	NC	NC	
2	5.101	5.102	-0.001	91409134	NC	NC	
						RPD = 1.11	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	212201404	NC	NC	
2	5.776	5.776	0.000	921748528	NC	NC	
						RPD = 1.20	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	54279812	0.1750	0.1689	
2	6.116	6.116	0.000	300893318	0.1750	0.1674	
						RPD = 0.85	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	17047628	0.1750	0.1844	
2	6.504	6.505	-0.001	52193224	0.1750	0.1745	
						RPD = 5.49	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	35013881	0.1750	0.1656	
2	6.829	6.829	0.000	235040238	0.1750	0.1670	
						RPD = 0.84	
7 Dicamba							
1	6.721	6.720	0.001	91550778	0.0875	0.0850	
2	6.911	6.910	0.001	429620976	0.0875	0.0858	
						RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	8640069	17.5	16.3	
2	6.955	6.955	0.000	77011106	17.5	16.8	
						RPD = 2.77	
9 MCPA							
1	6.994	6.994	0.000	17766771	17.5	19.2	
2	7.153	7.155	-0.002	121752778	17.5	19.6	
						RPD = 2.31	
10 Dichlorprop							
1	7.181	7.180	0.001	48109296	0.1750	0.1734	
2	7.296	7.297	-0.001	231436814	0.1750	0.1642	
						RPD = 5.46	
11 2,4-D							
1	7.324	7.326	-0.002	54093373	0.1750	0.1789	
2	7.515	7.517	-0.002	272374787	0.1750	0.1709	
						RPD = 4.55	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	237204468	0.0438	0.0441	
2	7.713	7.714	-0.001	840761037	0.0438	0.0447	
						RPD = 1.45	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	84634924	0.0438	0.0450	
2	7.845	7.846	-0.001	324244276	0.0438	0.0439	
						RPD = 2.66	
14 Chloramben							
1	7.852	7.855	-0.003	269520100	0.1750	0.1655	
2	8.159	8.162	-0.003	1019151525	0.1750	0.1812	
						RPD = 9.06	
15 2,4,5-T							
1	7.925	7.929	-0.004	93534318	0.0438	0.0426	
2	8.080	8.083	-0.003	287476934	0.0438	0.0433	
						RPD = 1.44	
16 2,4-DB							
1	8.171	8.175	-0.004	26059778	0.1750	0.1599	
2	8.298	8.302	-0.004	166644052	0.1750	0.1690	
						RPD = 5.54	
17 Dinoseb							
1	8.222	8.224	-0.002	207576561	0.1750	0.1696	
2	8.246	8.248	-0.002	688241161	0.1750	0.1552	
						RPD = 8.85	
18 Bentazon							
1	8.299	8.300	-0.001	47511232	0.1750	0.1652	
2	8.661	8.662	-0.001	137471207	0.1750	0.1710	
						RPD = 3.43	
19 Picloram							
1	8.526	8.529	-0.003	428630902	0.1750	0.1666	
2	9.005	9.005	0.000	1548770490	0.1750	0.1470	
						RPD = 12.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	565445884	0.1750	0.1717	
2	8.776	8.775	0.001	1775677219	0.1750	0.1808	
						RPD = 5.16	
21 Acifluorfen							
1	9.665	9.666	-0.001	407675485	0.1750	0.1692	
2	9.791	9.792	-0.001	1244184045	0.1750	0.1664	
						RPD = 1.67	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

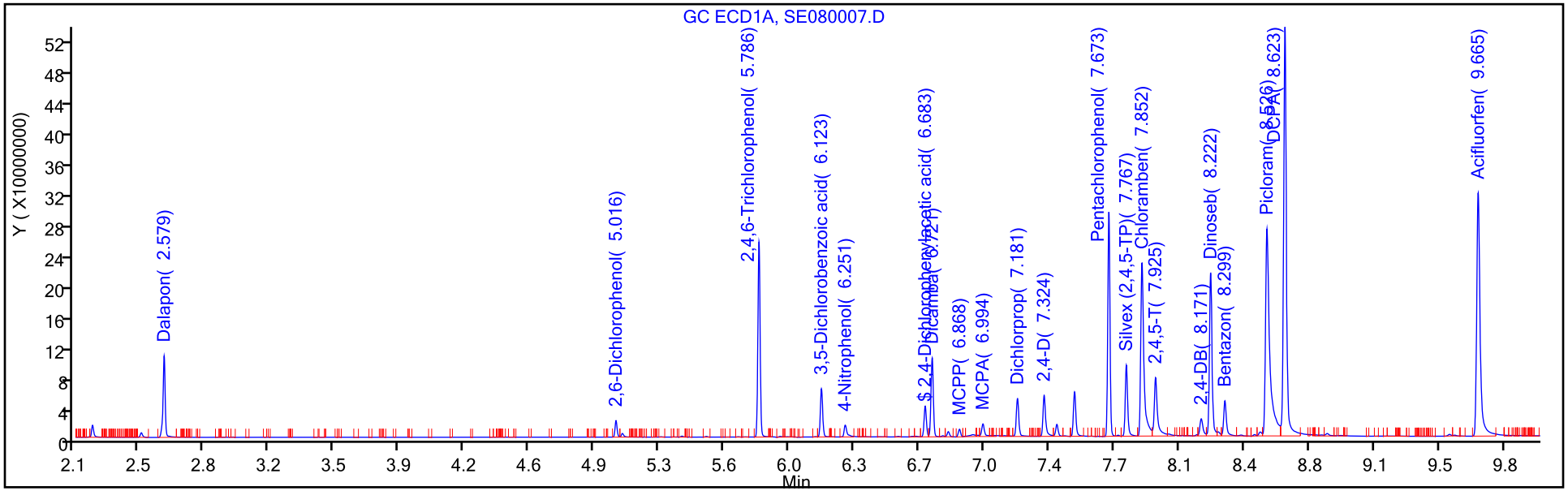
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TestAmerica Savannah

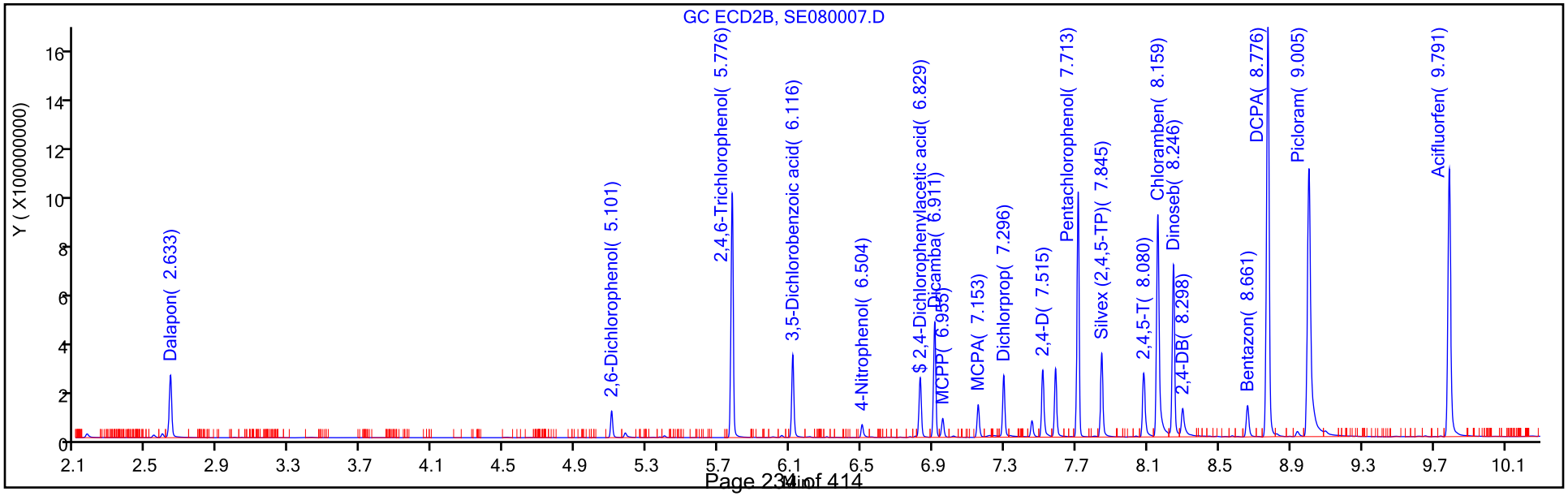
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Injection Date:	08-May-2018 12:56:54	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-May-2018 13:16:38 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:24 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	49026258	0.1000	0.0935	
2	2.632	2.632	0.000	144107629	0.1000	0.0894	
						RPD = 4.52	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	9648349	NC	NC	
2	5.102	5.102	0.000	51409780	NC	NC	
						RPD = 3.66	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	115367190	NC	NC	
2	5.776	5.776	0.000	492889358	NC	NC	
						RPD = 0.46	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	30442227	0.1000	0.0947	
2	6.116	6.116	0.000	163818500	0.1000	0.0912	
						RPD = 3.82	
5 4-Nitrophenol							
1	6.253	6.253	0.000	9830837	0.1000	0.1063	
2	6.505	6.505	0.000	28145758	0.1000	0.0941	
						RPD = 12.18	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	19553071	0.1000	0.0925	
2	6.829	6.829	0.000	126698158	0.1000	0.0900	
						RPD = 2.70	
7 Dicamba							
1	6.720	6.720	0.000	50221281	0.0500	0.0466	
2	6.910	6.910	0.000	229111440	0.0500	0.0457	
						RPD = 1.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	5032337	10.0	10.4	
2	6.955	6.955	0.000	44613118	10.0	9.35	
						RPD = 11.06	
9 MCPA							M
1	6.994	6.994	0.000	10021981	10.0	10.8	
2	7.155	7.155	0.000	72306759	10.0	12.6	M
						RPD = 15.16	
10 Dichlorprop							M
1	7.180	7.180	0.000	27204673	0.1000	0.0980	
2	7.297	7.297	0.000	128102012	0.1000	0.0909	M
						RPD = 7.59	
11 2,4-D							M
1	7.326	7.326	0.000	29475053	0.1000	0.0975	
2	7.517	7.517	0.000	145386532	0.1000	0.0912	M
						RPD = 6.61	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	126808590	0.0250	0.0236	
2	7.714	7.714	0.000	448807878	0.0250	0.0239	M
						RPD = 1.30	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	44774730	0.0250	0.0238	
2	7.846	7.846	0.000	170517091	0.0250	0.0231	M
						RPD = 3.25	
14 Chloramben							M
1	7.855	7.855	0.000	136550994	0.1000	0.0910	
2	8.162	8.162	0.000	528388568	0.1000	0.0939	M
						RPD = 3.16	
15 2,4,5-T							M
1	7.929	7.929	0.000	56867356	0.0250	0.0259	
2	8.083	8.083	0.000	149160522	0.0250	0.0224	M
						RPD = 14.39	
16 2,4-DB							M
1	8.175	8.175	0.000	13655211	0.1000	0.0916	
2	8.302	8.302	0.000	97285447	0.1000	0.0986	M
						RPD = 7.35	
17 Dinoseb							M
1	8.224	8.224	0.000	110631354	0.1000	0.0904	
2	8.248	8.248	0.000	344721192	0.1000	0.0811	M
						RPD = 10.80	
18 Bentazon							M
1	8.300	8.300	0.000	27567147	0.1000	0.0959	
2	8.662	8.662	0.000	74902105	0.1000	0.0932	M
						RPD = 2.86	
19 Picloram							M
1	8.529	8.529	0.000	216808821	0.1000	0.0920	
2	9.005	9.005	0.000	759779337	0.1000	0.0769	M
						RPD = 17.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.623	8.623	0.000	315619469	0.1000	0.0958	
2	8.775	8.775	0.000	947740711	0.1000	0.0965	M
						RPD = 0.69	
21 Acifluorfen							
1	9.666	9.666	0.000	217026310	0.1000	0.0952	
2	9.792	9.792	0.000	596281084	0.1000	0.0890	
						RPD = 6.71	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

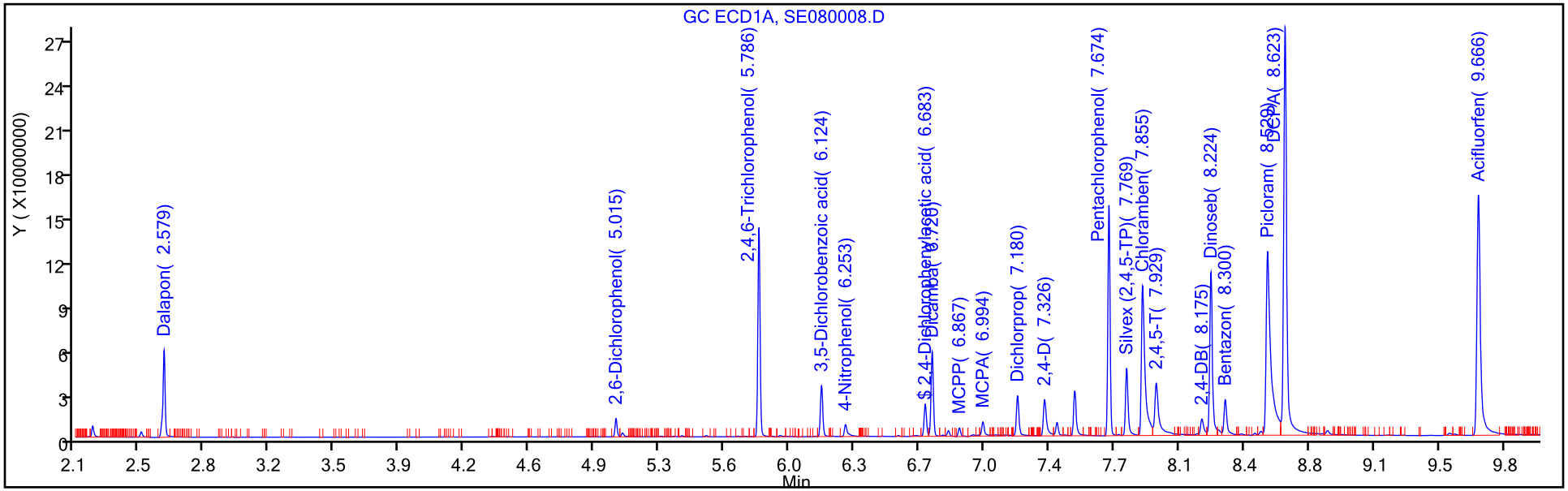
Report Date: 08-May-2018 16:25:26 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

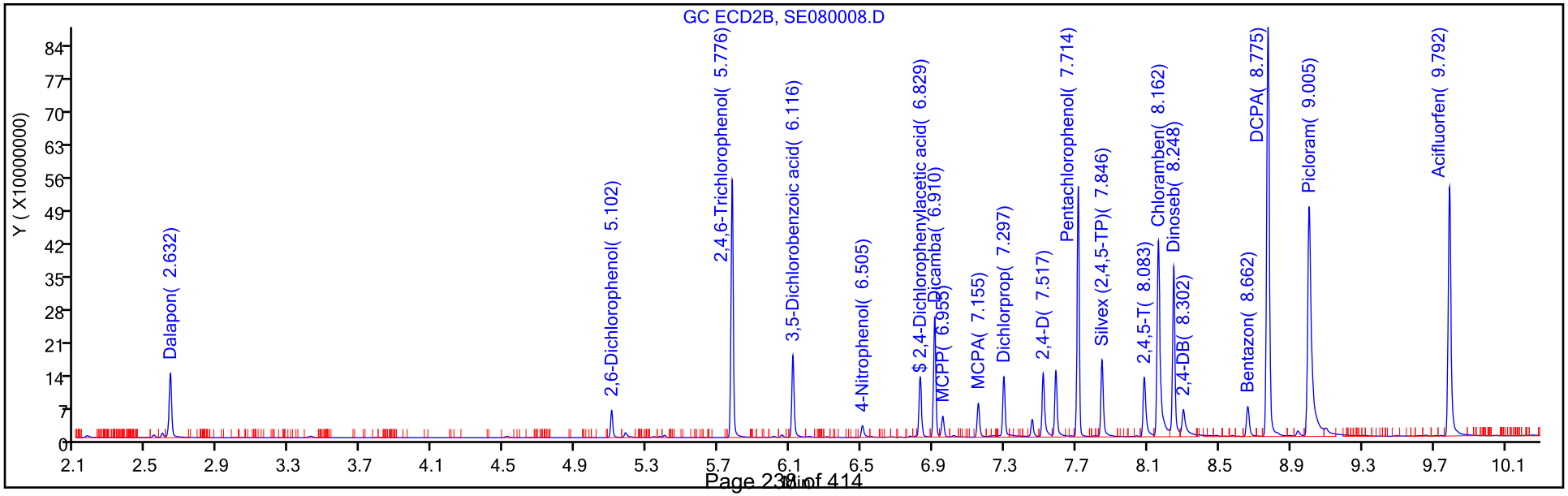
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Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

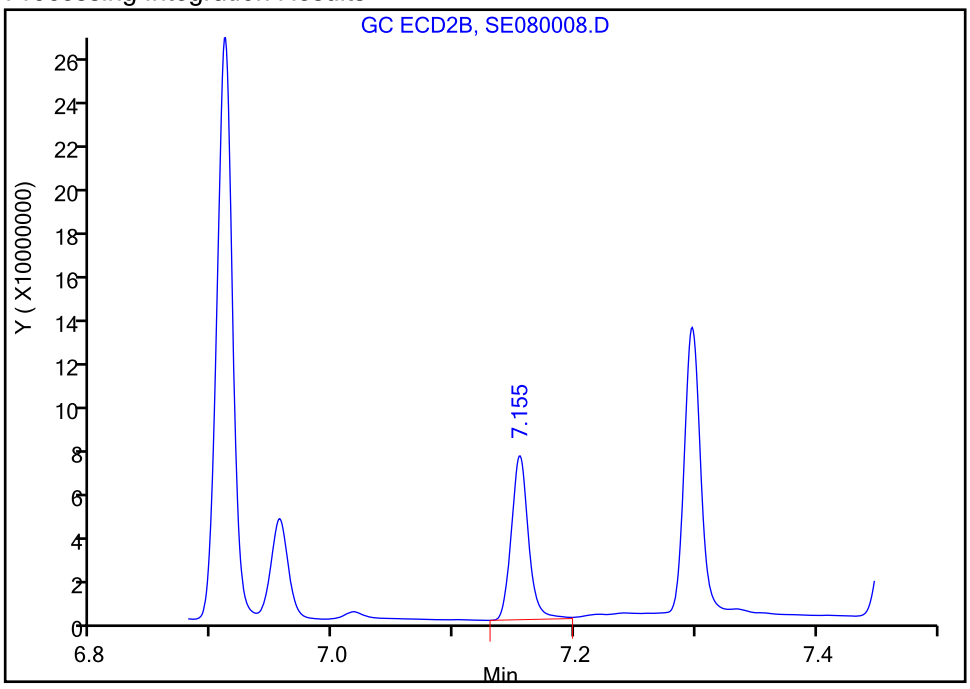
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

9 MCPA, CAS: 94-74-6

Signal: 2

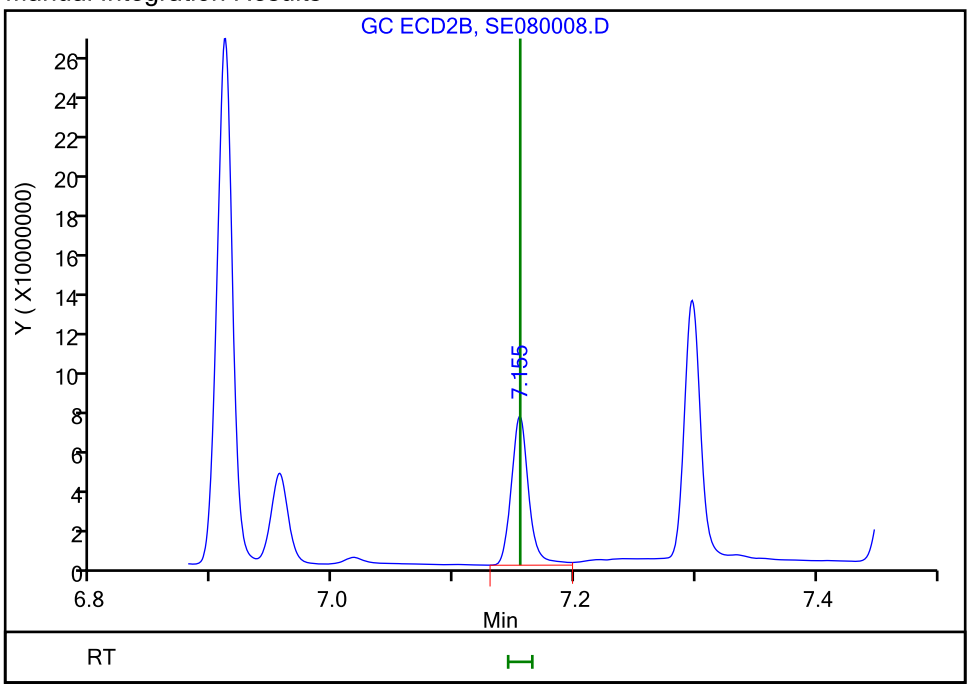
Processing Integration Results

RT: 7.15
Area: 70638307
Amount: 12.168042
Amount Units: ug/ml



Manual Integration Results

RT: 7.15
Area: 72306759
Amount: 12.598213
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

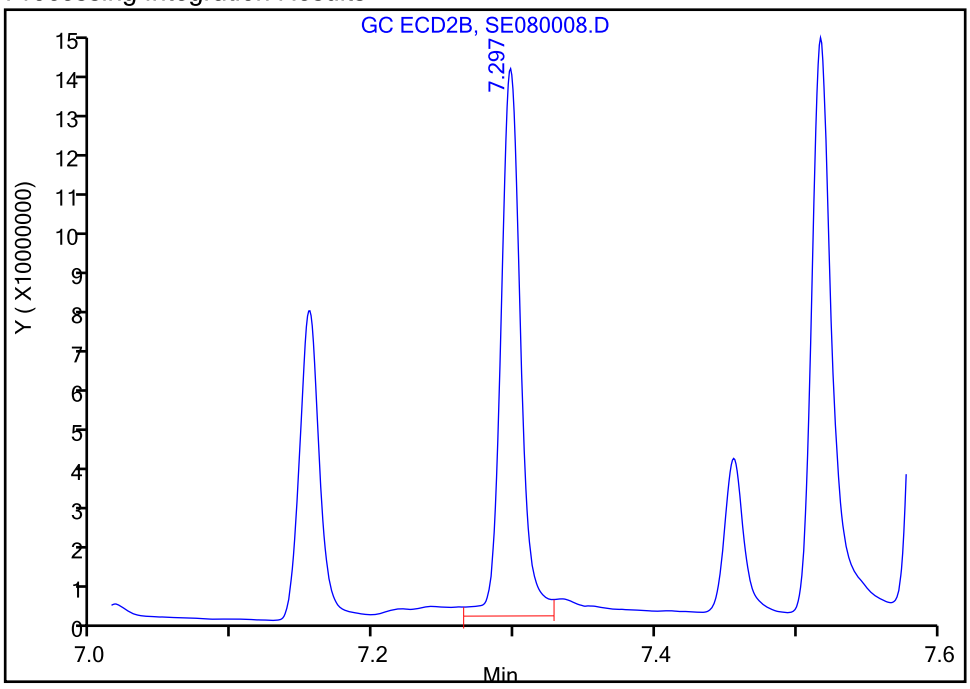
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Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS		
Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

10 Dichlorprop, CAS: 120-36-5

Signal: 2

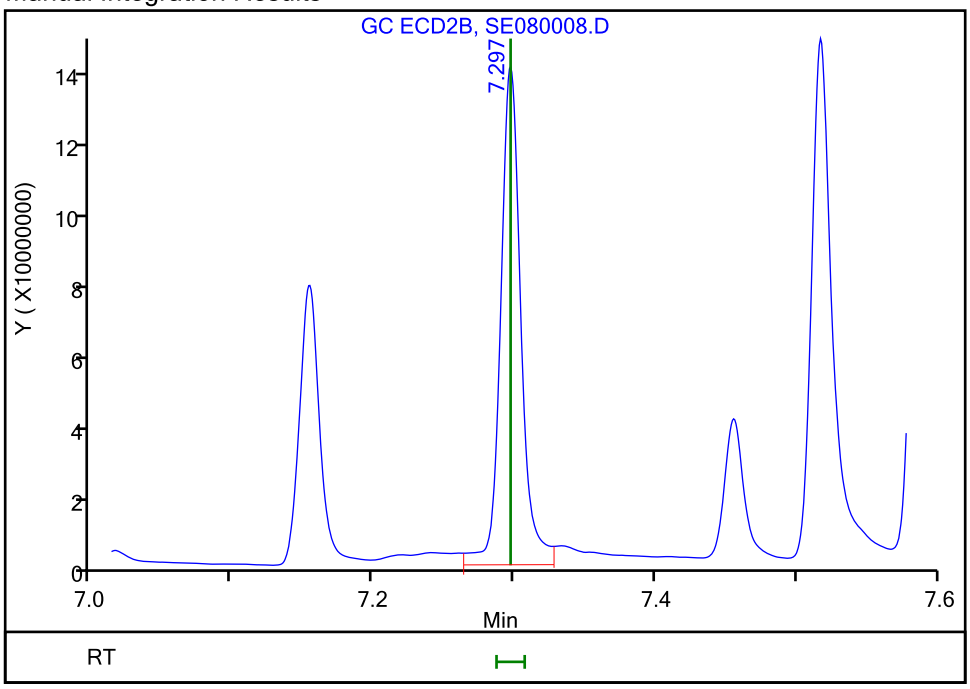
Processing Integration Results

RT: 7.30
Area: 124658322
Amount: 0.089720
Amount Units: ug/ml



Manual Integration Results

RT: 7.30
Area: 128102012
Amount: 0.090865
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

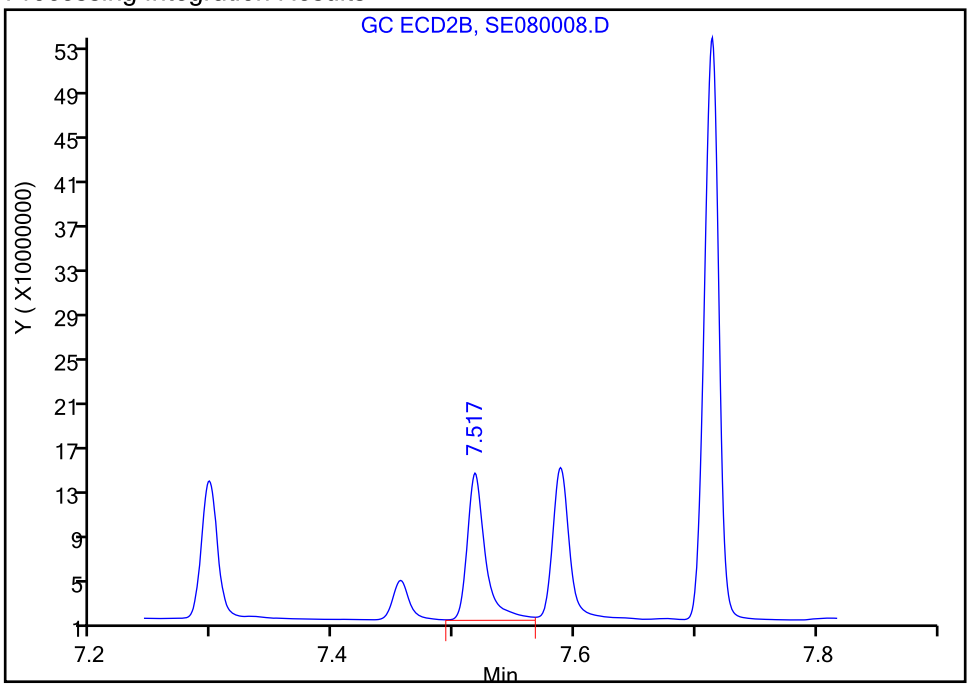
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Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

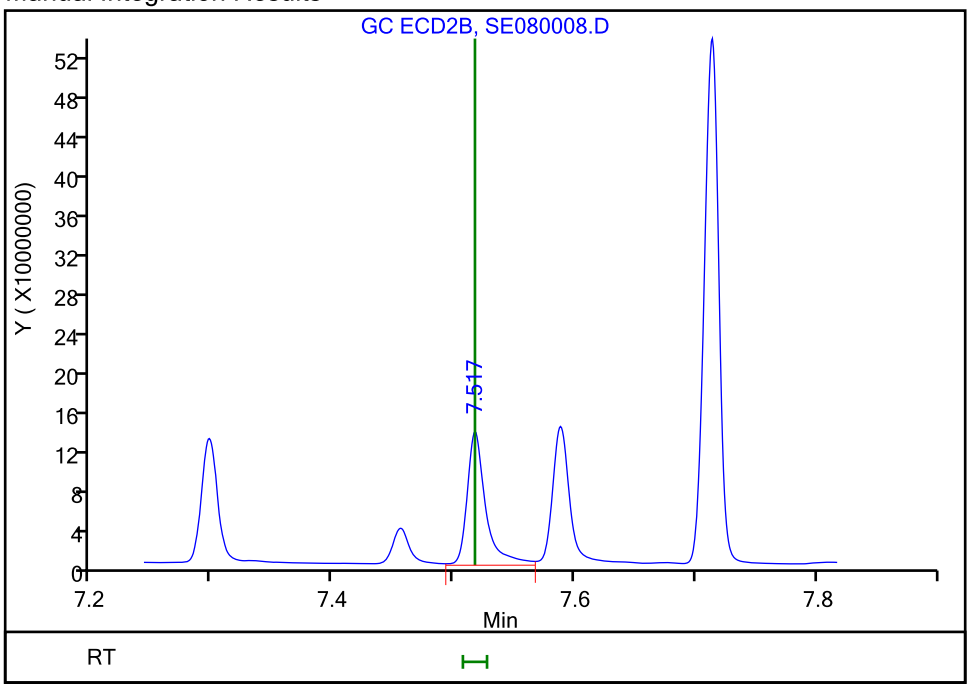
Processing Integration Results

RT: 7.52
Area: 140860308
Amount: 0.087306
Amount Units: ug/ml



Manual Integration Results

RT: 7.52
Area: 145386532
Amount: 0.091235
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

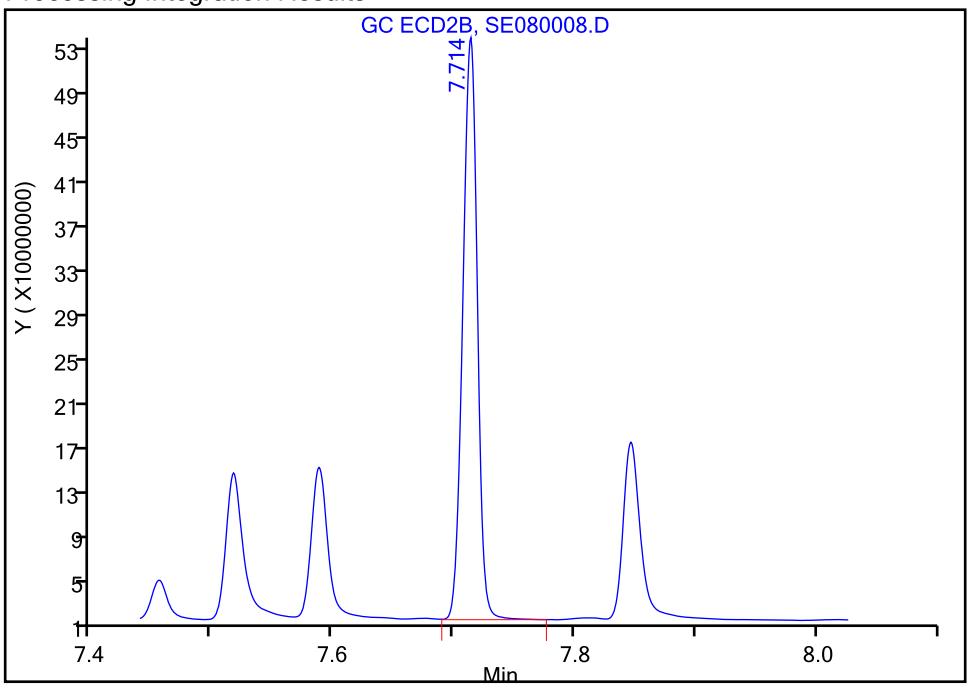
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Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

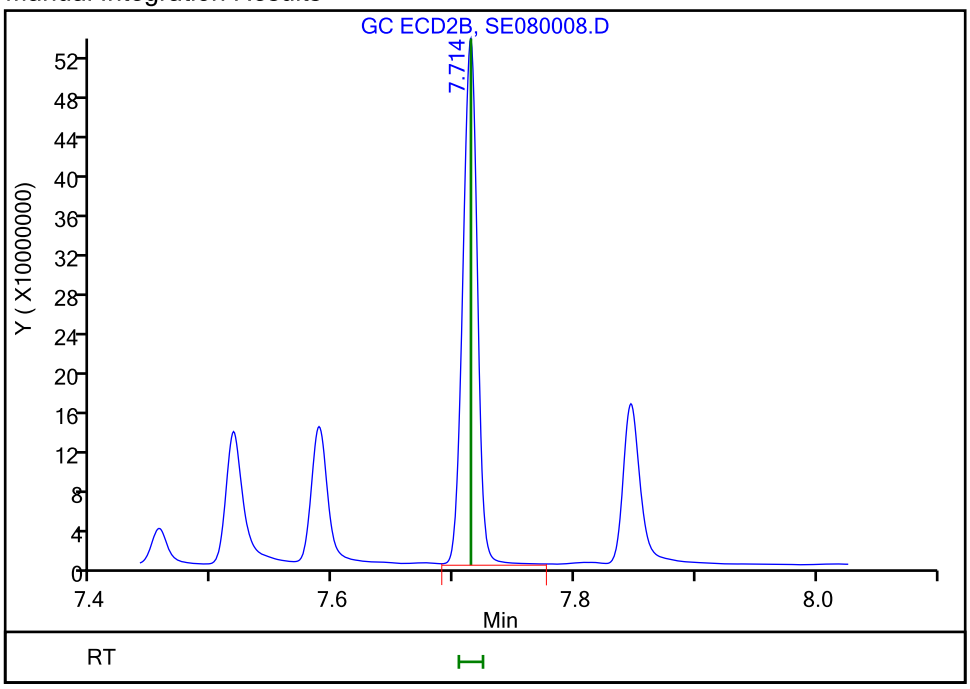
Processing Integration Results

RT: 7.71
Area: 442694800
Amount: 0.023710
Amount Units: ug/ml



Manual Integration Results

RT: 7.71
Area: 448807878
Amount: 0.023862
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

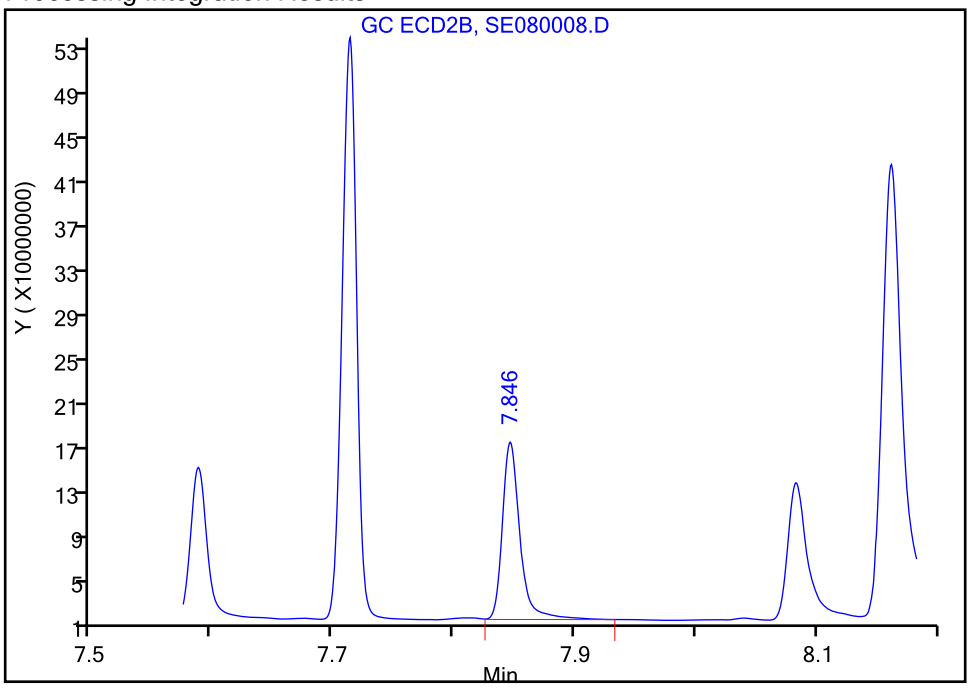
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Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

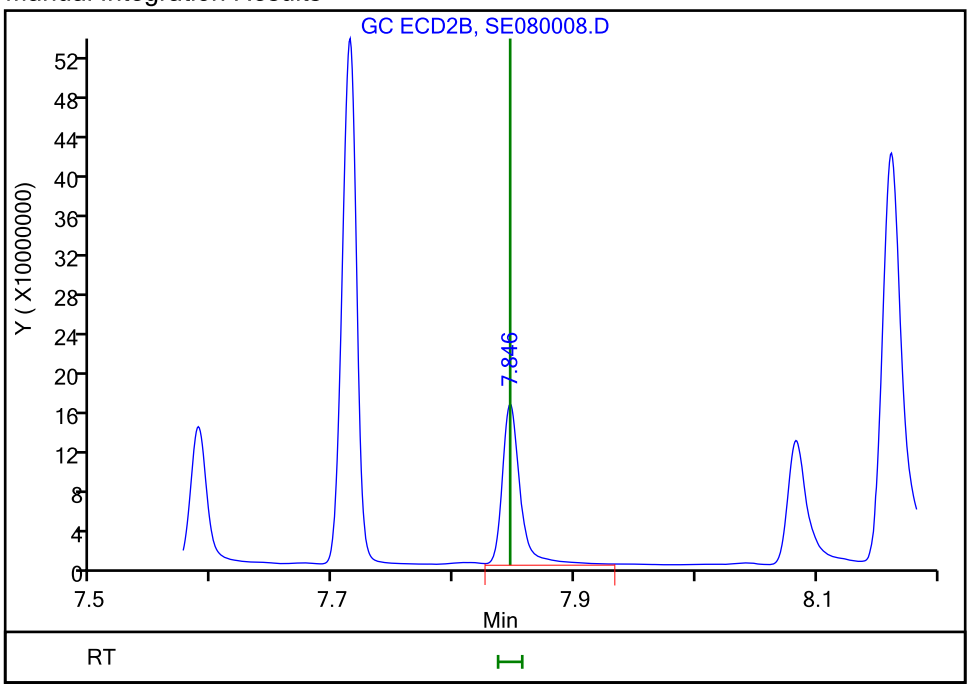
Processing Integration Results

RT: 7.85
Area: 163005295
Amount: 0.022383
Amount Units: ug/ml



Manual Integration Results

RT: 7.85
Area: 170517091
Amount: 0.023070
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

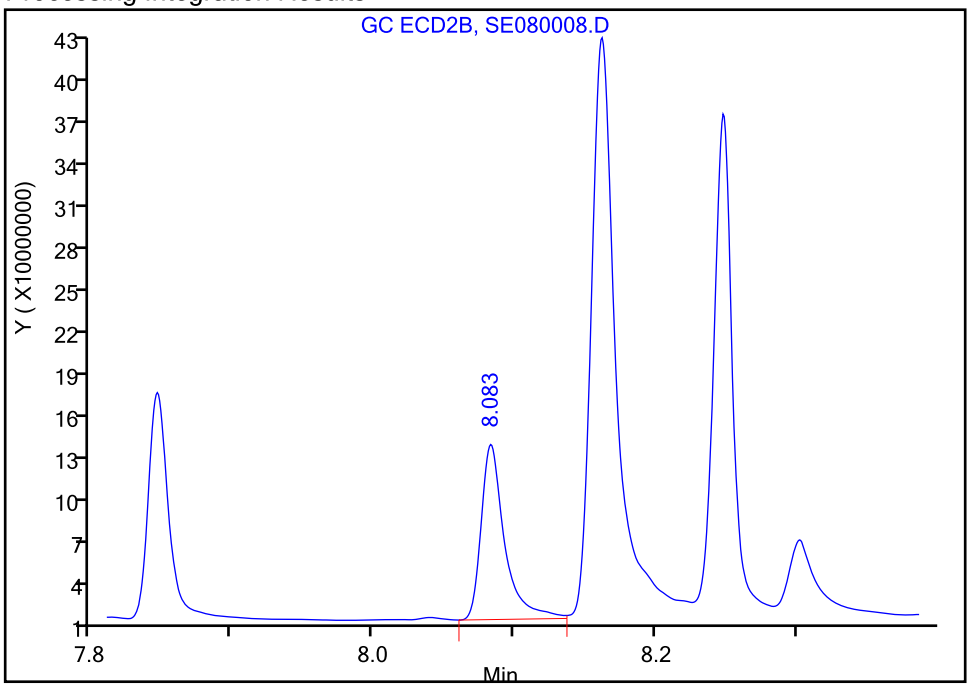
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Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

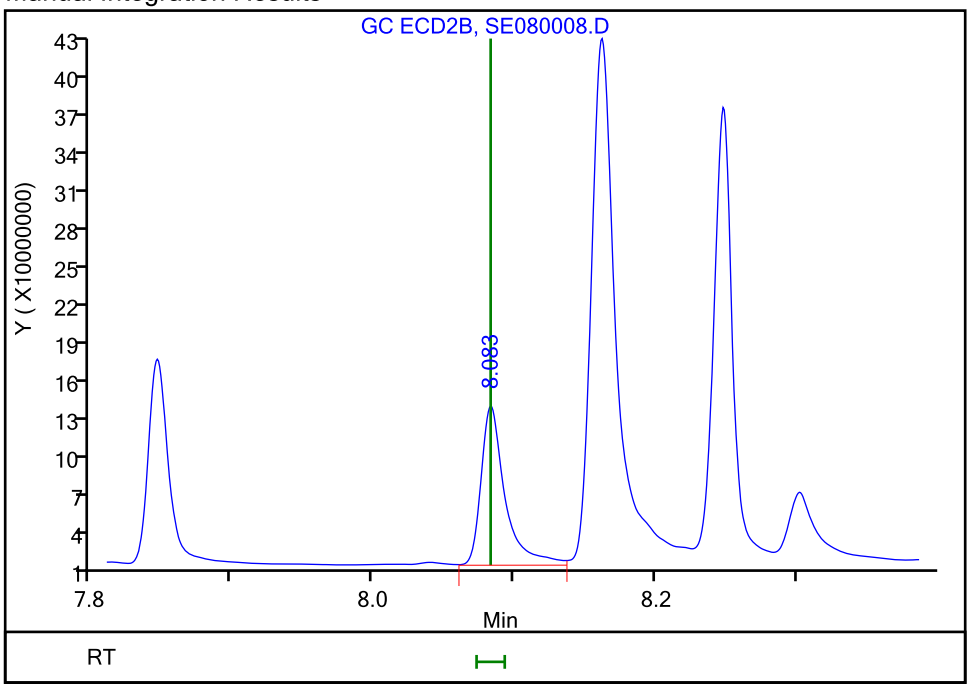
Processing Integration Results

RT: 8.08
Area: 144622118
Amount: 0.022117
Amount Units: ug/ml



Manual Integration Results

RT: 8.08
Area: 149160522
Amount: 0.022442
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

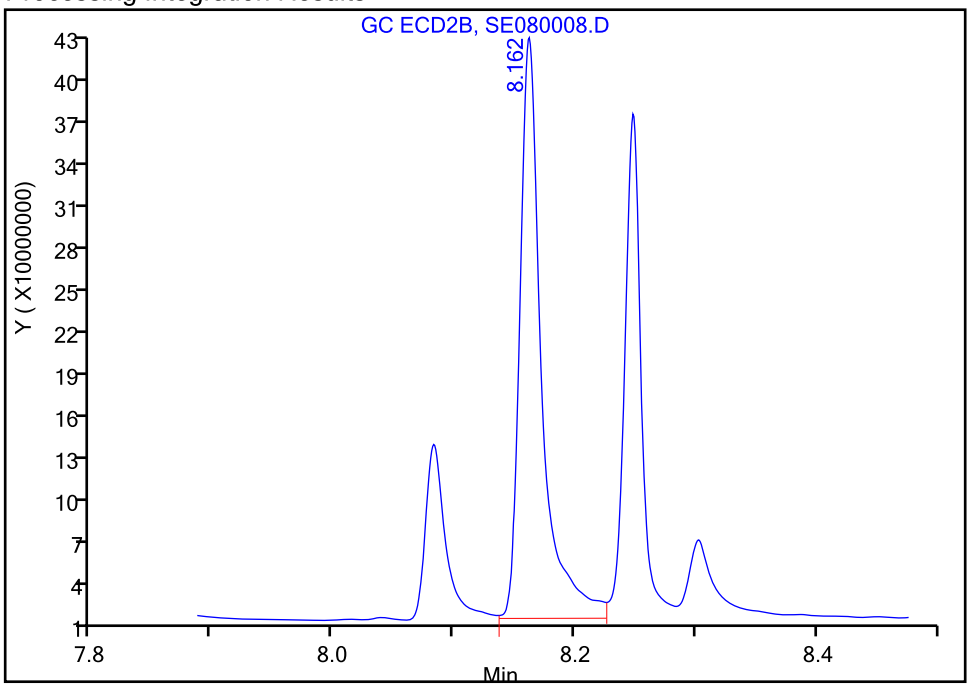
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Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS		
Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

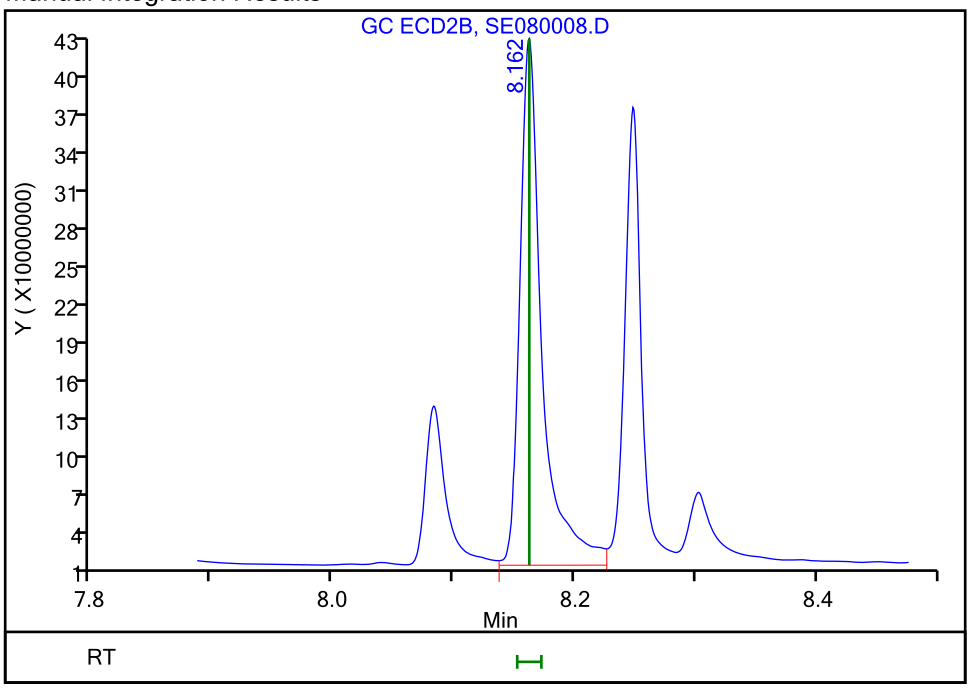
Processing Integration Results

RT: 8.16
Area: 520020336
Amount: 0.090865
Amount Units: ug/ml



Manual Integration Results

RT: 8.16
Area: 528388568
Amount: 0.093927
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

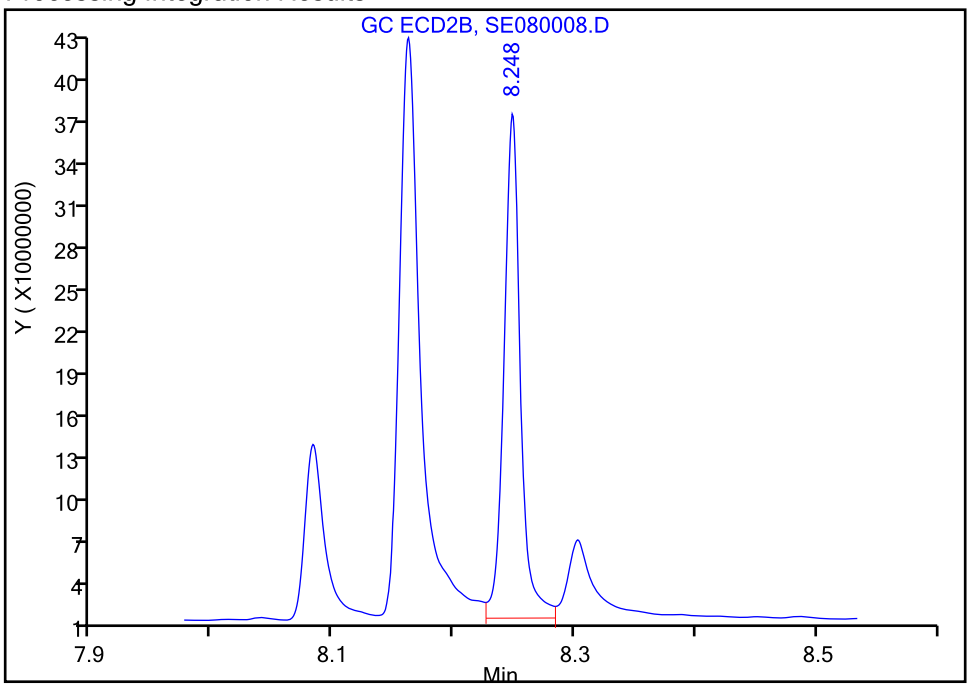
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

17 Dinoseb, CAS: 88-85-7

Signal: 2

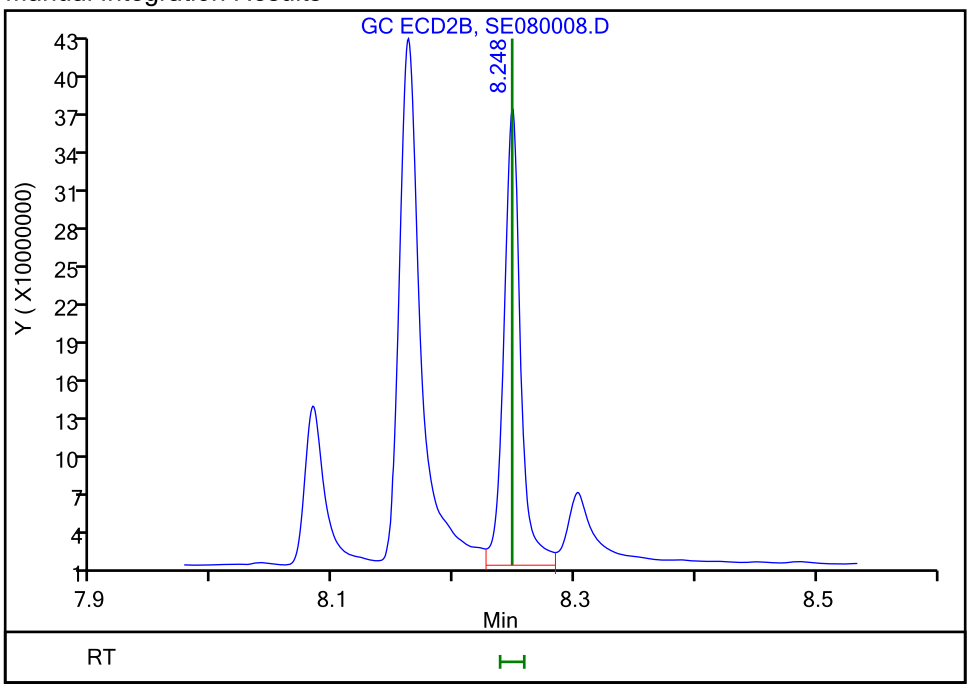
Processing Integration Results

RT: 8.25
Area: 339033784
Amount: 0.079521
Amount Units: ug/ml



Manual Integration Results

RT: 8.25
Area: 344721192
Amount: 0.081127
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

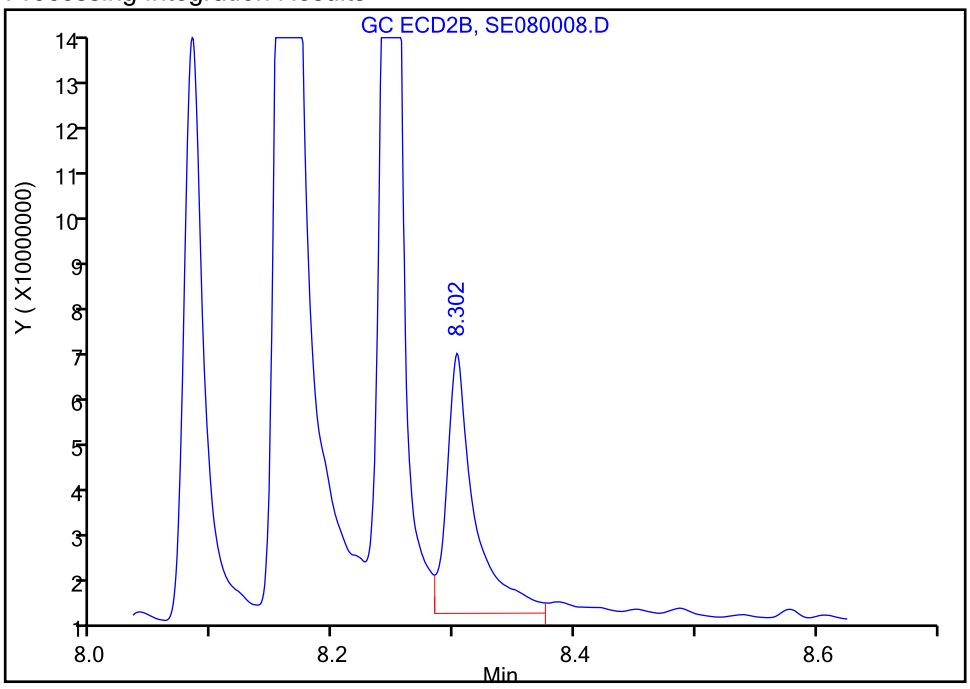
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

16 2,4-DB, CAS: 94-82-6

Signal: 2

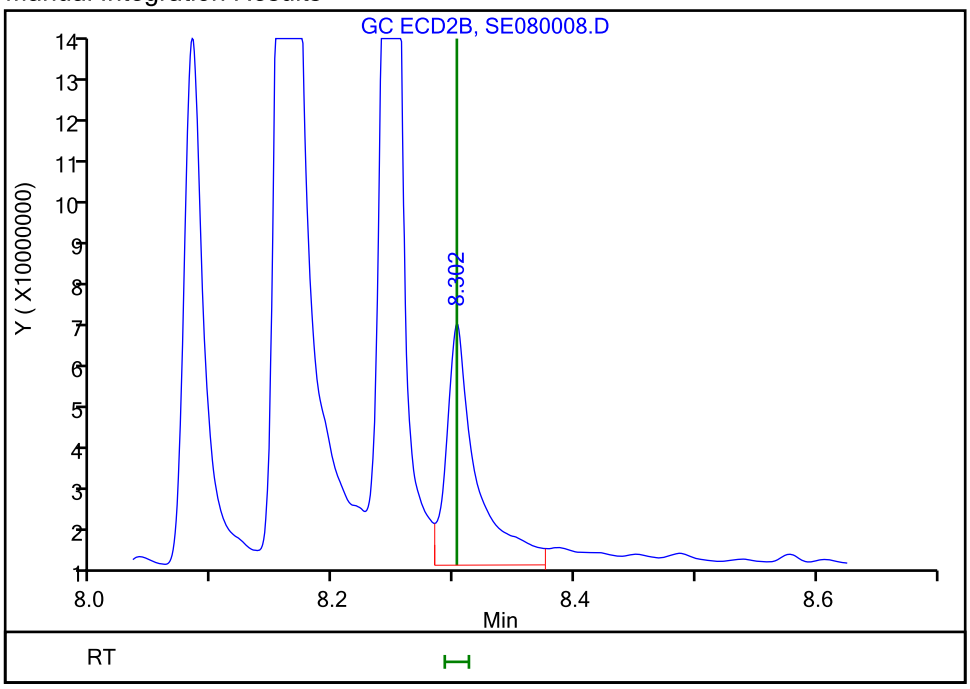
Processing Integration Results

RT: 8.30
Area: 87960984
Amount: 0.091948
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 97285447
Amount: 0.098638
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

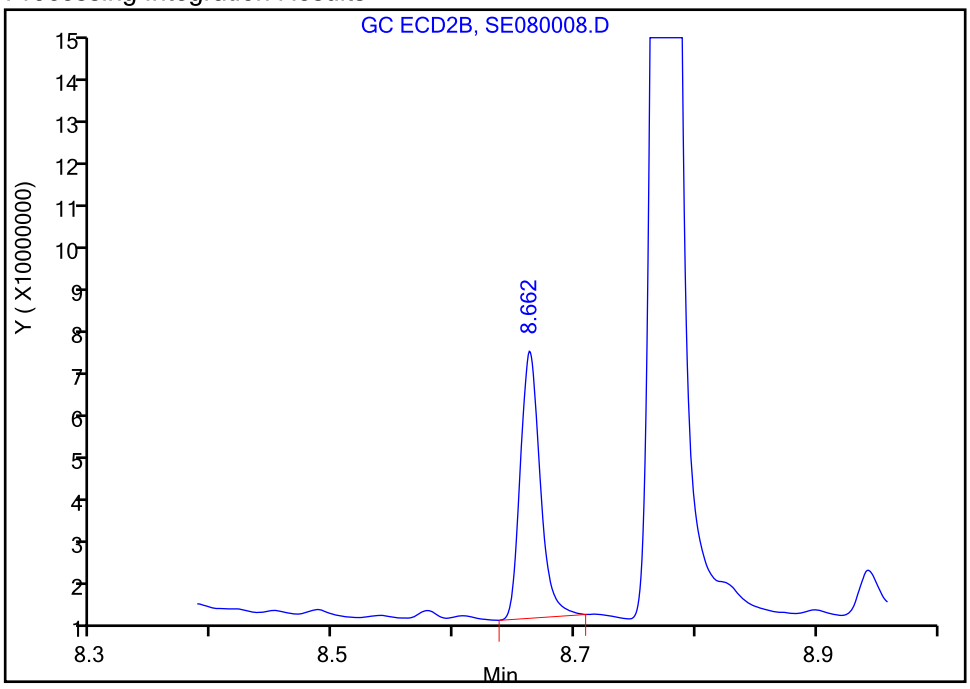
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

18 Bentazon, CAS: 25057-89-0

Signal: 2

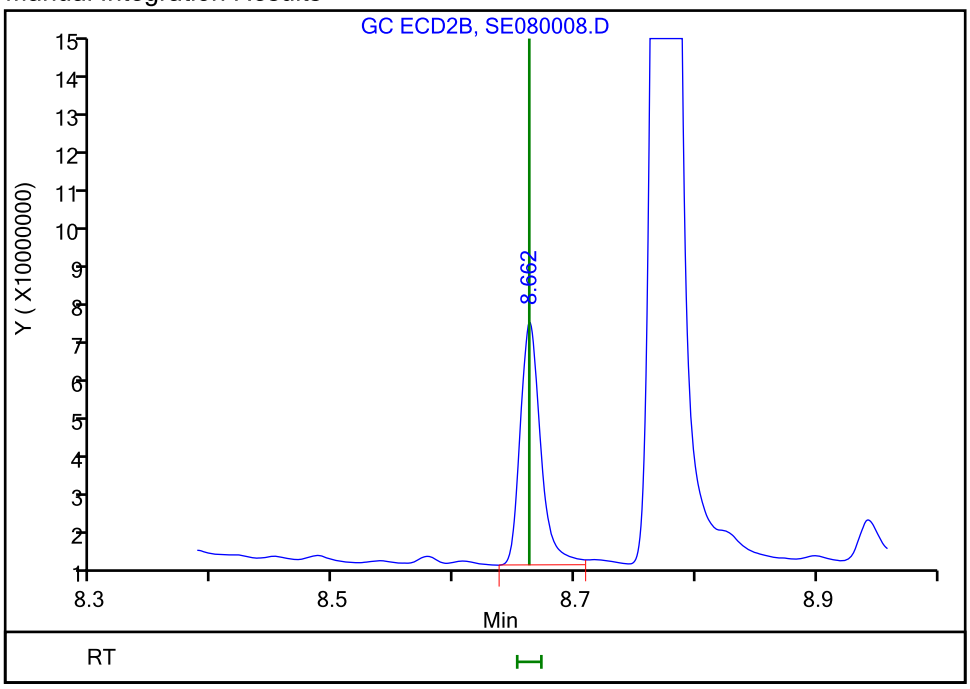
Processing Integration Results

RT: 8.66
Area: 72376111
Amount: 0.091160
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 74902105
Amount: 0.093165
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

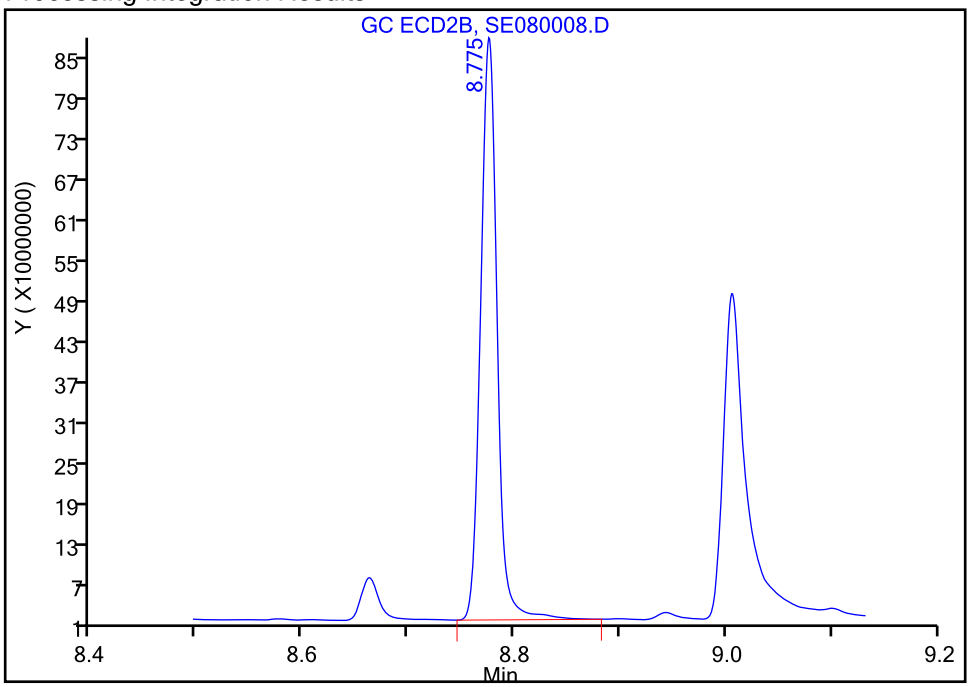
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D				
Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS		
Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

20 DCPA, CAS: 1861-32-1

Signal: 2

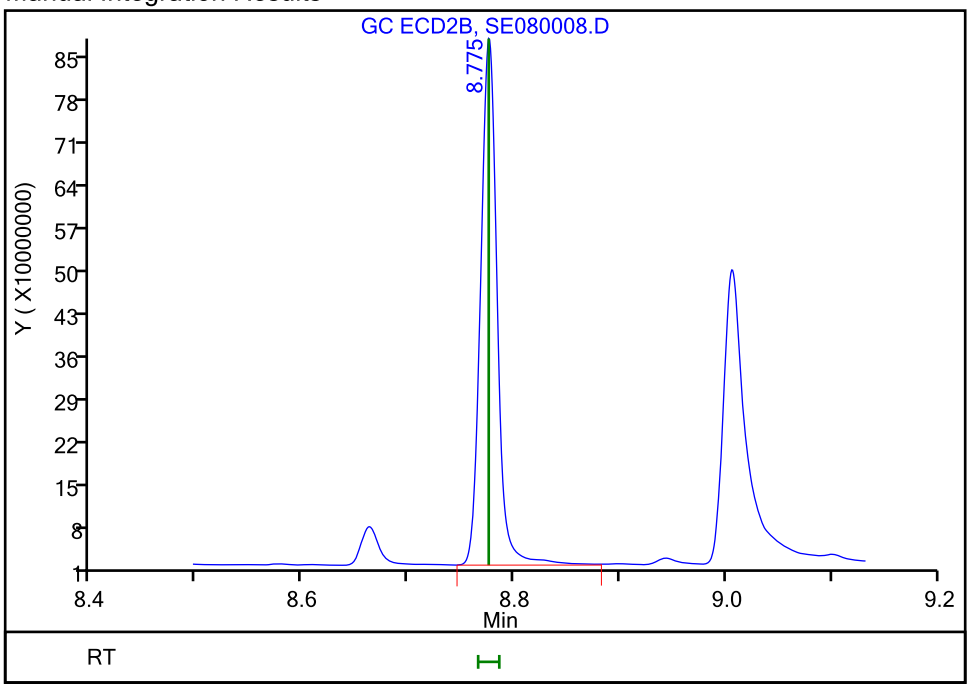
Processing Integration Results

RT: 8.78
Area: 941669698
Amount: 0.096297
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 947740711
Amount: 0.096500
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

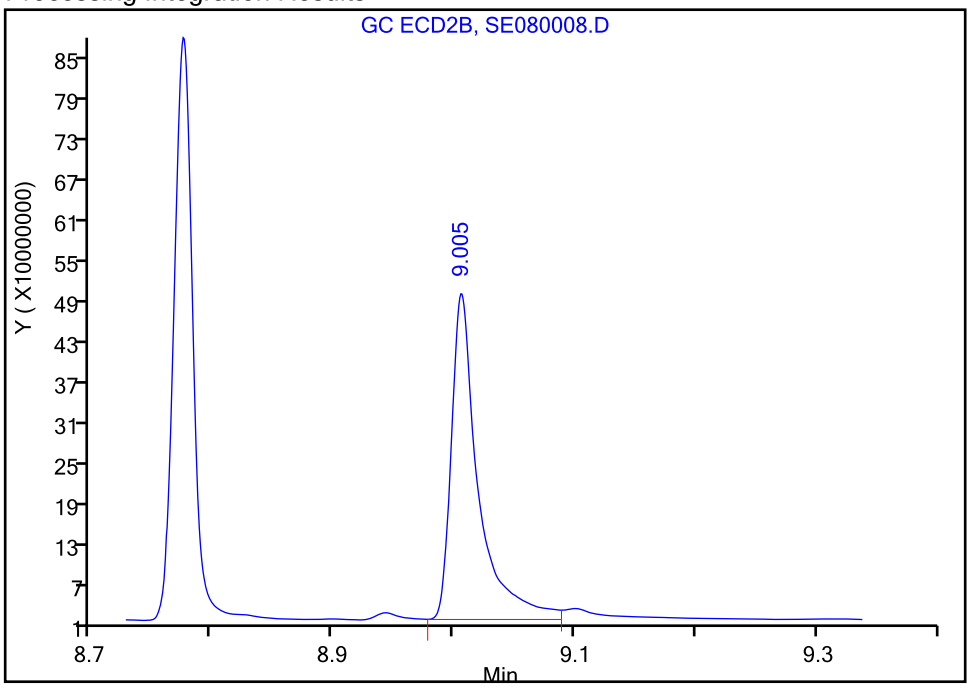
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D				
Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS		
Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

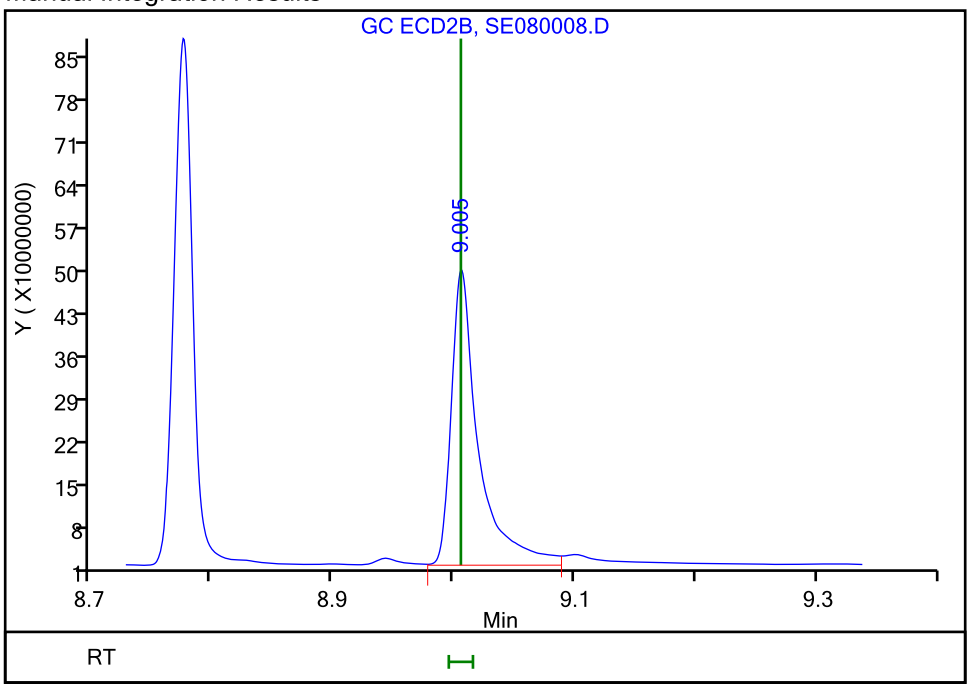
Processing Integration Results

RT: 9.01
Area: 751443253
Amount: 0.084403
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 759779337
Amount: 0.076880
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-May-2018 13:36:16 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:32 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:19:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	25290814	0.0500	0.0483	
2	2.632	2.632	0.000	71378402	0.0500	0.0443	
						RPD = 8.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	5120223	NC	NC	
2	5.101	5.102	-0.001	27211487	NC	NC	
						RPD = 3.92	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	55102499	NC	NC	
2	5.776	5.776	0.000	240010788	NC	NC	
						RPD = 1.48	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	15117918	0.0500	0.0470	
2	6.116	6.116	0.000	82525138	0.0500	0.0459	
						RPD = 2.39	
5 4-Nitrophenol							
1	6.254	6.253	0.001	4230904	0.0500	0.0458	
2	6.506	6.505	0.001	14245923	0.0500	0.0476	
						RPD = 4.02	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	9821711	0.0500	0.0464	
2	6.829	6.829	0.000	65002540	0.0500	0.0462	
						RPD = 0.58	
7 Dicamba							
1	6.721	6.720	0.001	24549090	0.0250	0.0228	
2	6.909	6.910	-0.001	113374207	0.0250	0.0226	
						RPD = 0.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.866	6.867	-0.001	2565927	5.00	5.99	
2	6.955	6.955	0.000	26339273	5.00	5.17	
						RPD = 14.76	
9 MCPA							
1	6.994	6.994	0.000	4373482	5.00	4.72	
2	7.154	7.155	-0.001	40478712	5.00	7.49	
						RPD = 45.31	
10 Dichlorprop							
1	7.181	7.180	0.001	13064380	0.0500	0.0471	
2	7.297	7.297	0.000	62424883	0.0500	0.0443	
						RPD = 6.13	
11 2,4-D							
1	7.331	7.326	0.005	13528651	0.0500	0.0447	
2	7.520	7.517	0.003	68918972	0.0500	0.0432	
						RPD = 3.38	
12 Pentachlorophenol							
1	7.674	7.674	0.000	60060646	0.0125	0.0112	
2	7.713	7.714	-0.001	214964113	0.0125	0.0114	
						RPD = 2.42	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	20302486	0.0125	0.0108	
2	7.846	7.846	0.000	78639731	0.0125	0.0106	
						RPD = 1.56	
14 Chloramben							
1	7.860	7.855	0.005	60085684	0.0500	0.0468	
2	8.164	8.162	0.002	240336393	0.0500	0.0427	
						RPD = 9.03	
15 2,4,5-T							
1	7.933	7.929	0.004	26566988	0.0125	0.0121	
2	8.086	8.083	0.003	68256754	0.0125	0.0103	
						RPD = 16.45	
16 2,4-DB							
1	8.178	8.175	0.003	5762851	0.0500	0.0472	
2	8.305	8.302	0.003	46624287	0.0500	0.0473	
						RPD = 0.23	
17 Dinoseb							
1	8.225	8.224	0.001	53295649	0.0500	0.0435	
2	8.248	8.248	0.000	154960345	0.0500	0.0402	
						RPD = 8.01	
18 Bentazon							
1	8.301	8.300	0.001	13719455	0.0500	0.0477	
2	8.663	8.662	0.001	35565067	0.0500	0.0442	
						RPD = 7.56	
19 Picloram							
1	8.533	8.529	0.004	94759287	0.0500	0.0468	
2	9.009	9.005	0.004	328532437	0.0500	0.0386	
						RPD = 19.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.624	8.623	0.001	151449071	0.0500	0.0460	
2	8.775	8.775	0.000	451881325	0.0500	0.0460	
						RPD = 0.05	
21 Acifluorfen							
1	9.667	9.666	0.001	97225812	0.0500	0.0468	
2	9.791	9.792	-0.001	248586919	0.0500	0.0440	
						RPD = 6.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

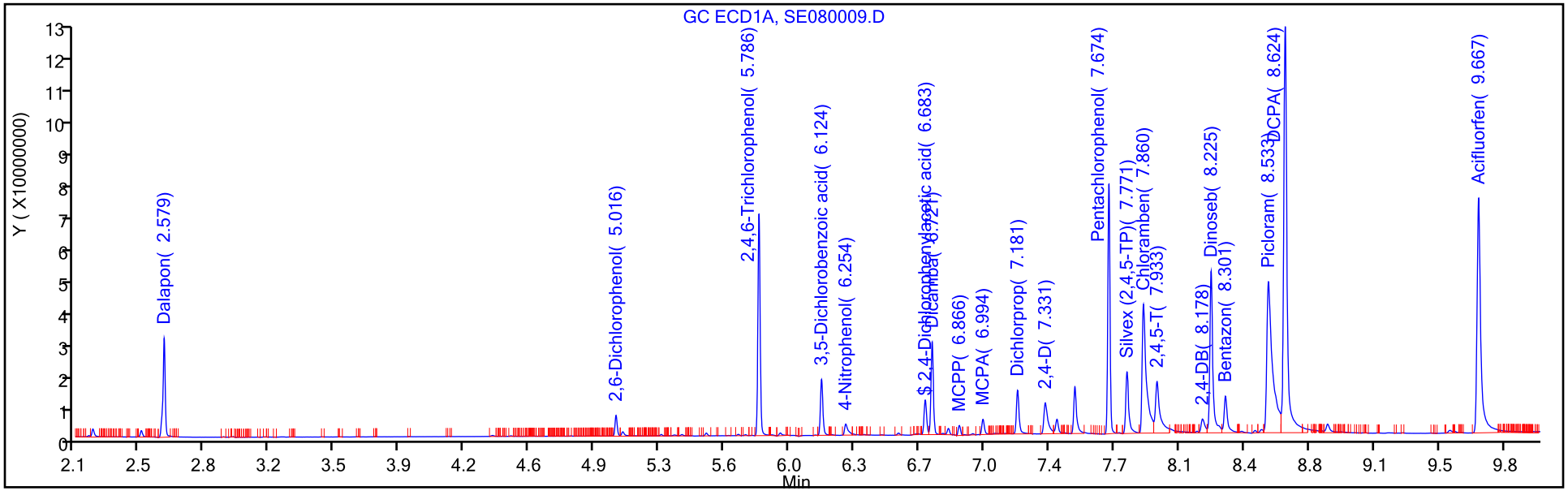
Report Date: 08-May-2018 16:25:34 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

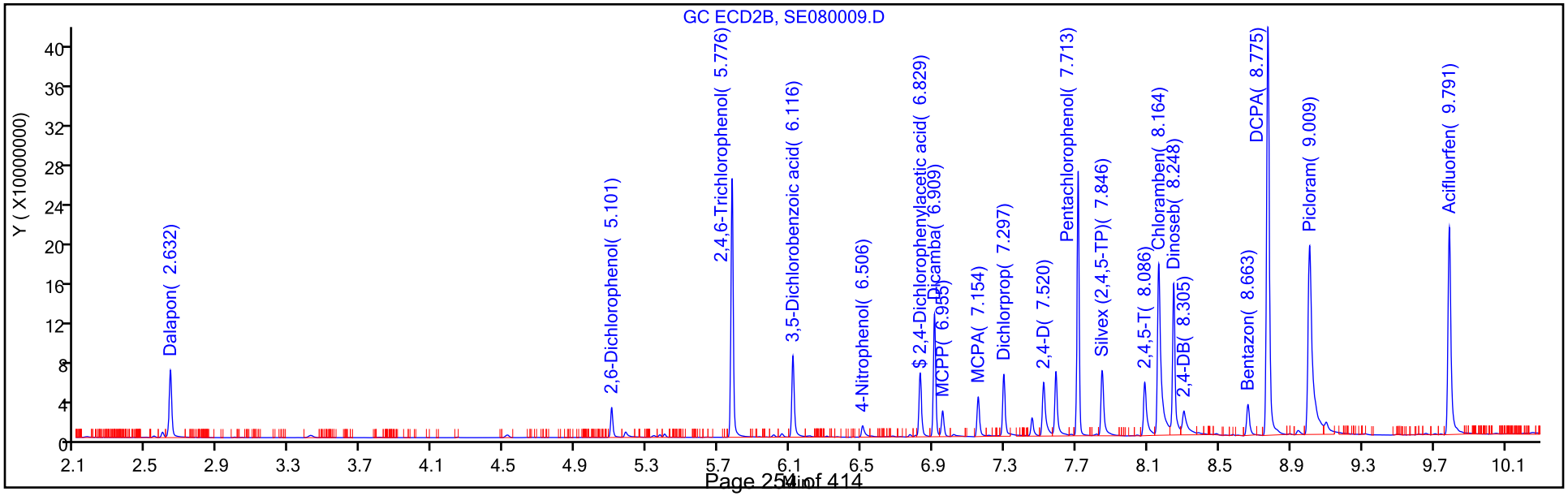
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D

Injection Date:	08-May-2018 13:36:16	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-May-2018 13:55:52 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:38 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	13718735	0.0250	0.0262	
2	2.632	2.632	0.000	39932951	0.0250	0.0248	
						RPD = 5.50	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	2779258	NC	NC	
2	5.102	5.102	0.000	15274619	NC	NC	
						RPD = 0.57	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	27400593	NC	NC	
2	5.776	5.776	0.000	122077658	NC	NC	
						RPD = 3.74	
4 3,5-Dichlorobenzoic acid							
1	6.125	6.124	0.001	8148129	0.0250	0.0254	
2	6.118	6.116	0.002	44015926	0.0250	0.0245	
						RPD = 3.44	
5 4-Nitrophenol							
1	6.258	6.253	0.005	2307008	0.0250	0.0250	
2	6.511	6.505	0.006	7416225	0.0250	0.0248	
						RPD = 0.61	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	5538443	0.0250	0.0262	
2	6.830	6.829	0.001	34723127	0.0250	0.0247	
						RPD = 5.99	
7 Dicamba							
1	6.720	6.720	0.000	13200023	0.0125	0.0123	
2	6.910	6.910	0.000	58578625	0.0125	0.0117	
						RPD = 4.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	1288891	2.50	3.49	
2	6.955	6.955	0.000	16319936	2.50	2.87	
						RPD = 19.60	
9 MCPA							
1	6.995	6.994	0.001	2137688	2.50	2.31	
2	7.155	7.155	0.000	24668652	2.50	4.72	
						RPD = 68.67	
10 Dichlorprop							
1	7.182	7.180	0.002	6871862	0.0250	0.0248	
2	7.298	7.297	0.001	33672808	0.0250	0.0239	
						RPD = 3.61	
11 2,4-D							
1	7.337	7.326	0.011	6740238	0.0250	0.0223	
2	7.524	7.517	0.007	35695833	0.0250	0.0224	
						RPD = 0.50	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	29521455	0.006250	0.005483	
2	7.713	7.714	-0.001	107509203	0.006250	0.005716	
						RPD = 4.15	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	9932955	0.006250	0.005287	
2	7.850	7.846	0.004	39284572	0.006250	0.005315	
						RPD = 0.53	
14 Chloramben							
1	7.864	7.855	0.009	28147981	0.0250	0.0279	
2	8.167	8.162	0.005	117512235	0.0250	0.0209	
						RPD = 28.91	
15 2,4,5-T							
1	7.935	7.929	0.006	13893399	0.006250	0.006333	
2	8.090	8.083	0.007	34680183	0.006250	0.005218	
						RPD = 19.31	
16 2,4-DB							
1	8.182	8.175	0.007	2666490	0.0250	0.0295	
2	8.308	8.302	0.006	26051520	0.0250	0.0264	
						RPD = 10.95	
17 Dinoseb							
1	8.225	8.224	0.001	27141219	0.0250	0.0222	
2	8.250	8.248	0.002	77307007	0.0250	0.0234	
						RPD = 5.56	
18 Bentazon							
1	8.304	8.300	0.004	6986266	0.0250	0.0243	
2	8.665	8.662	0.003	18151512	0.0250	0.0226	
						RPD = 7.33	
19 Picloram							
1	8.538	8.529	0.009	44134008	0.0250	0.0275	
2	9.011	9.005	0.006	155603121	0.0250	0.0232	
						RPD = 16.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	77163736	0.0250	0.0234	
2	8.776	8.775	0.001	226645361	0.0250	0.0231	
						RPD = 1.52	
21 Acifluorfen							
1	9.668	9.666	0.002	48982390	0.0250	0.0268	
2	9.795	9.792	0.003	120359495	0.0250	0.0266	
						RPD = 0.57	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

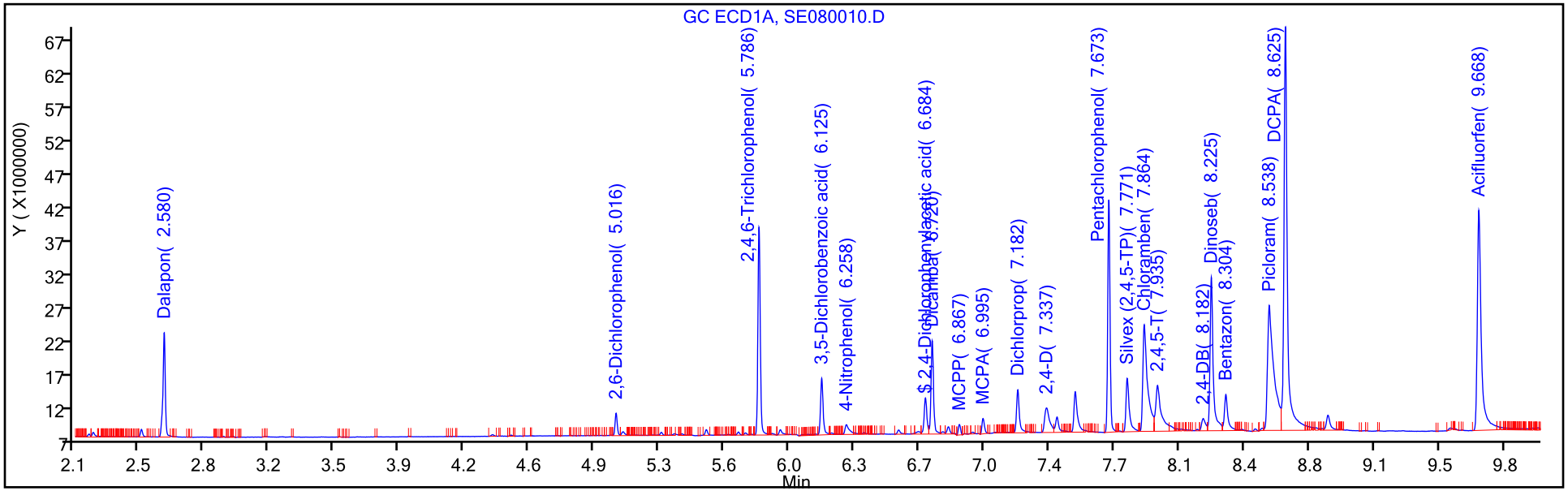
Report Date: 08-May-2018 16:25:40 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

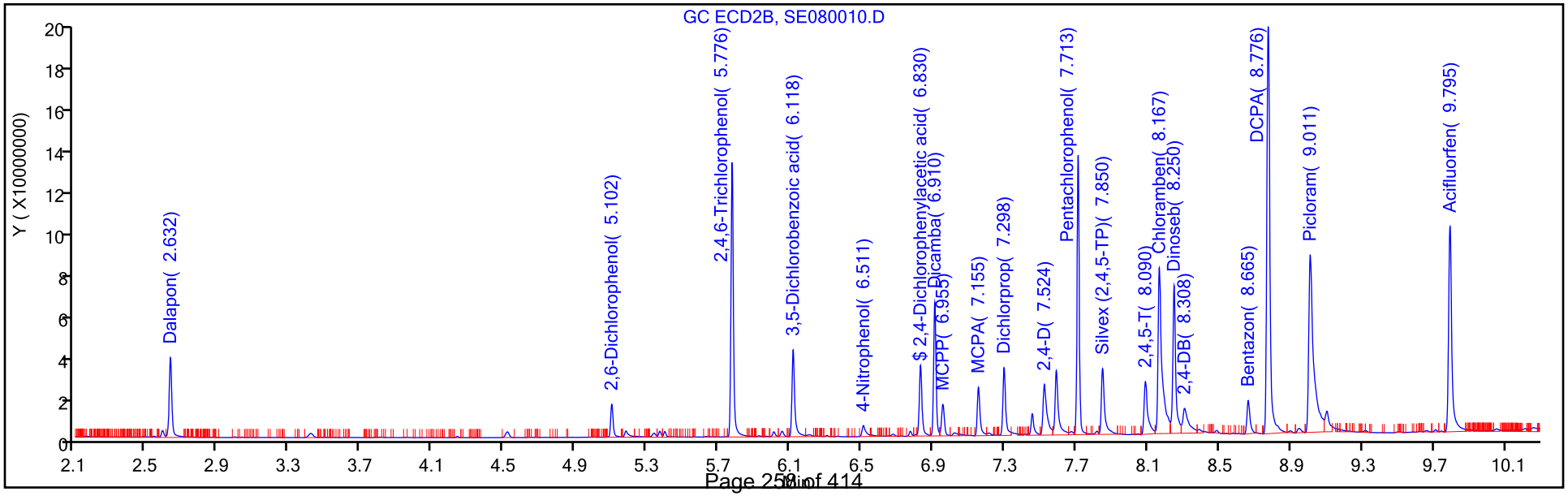
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080010.D

Injection Date:	08-May-2018 13:55:52	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2018 14:15:28 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:44 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:11:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	5906230	0.0100	0.0113	
2	2.633	2.632	0.001	17983150	0.0100	0.0112	
						RPD = 1.00	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	1242849	NC	NC	
2	5.103	5.102	0.001	6728448	NC	NC	
						RPD = 2.08	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	10511883	NC	NC	
2	5.776	5.776	0.000	47802186	NC	NC	
						RPD = 5.78	
4 3,5-Dichlorobenzoic acid							
1	6.126	6.124	0.002	3202229	0.0100	0.0100	
2	6.119	6.116	0.003	18377513	0.0100	0.0102	
						RPD = 2.62	
5 4-Nitrophenol							Ma
1	6.263	6.253	0.010	711986	0.0100	0.007701	a
2	6.516	6.505	0.011	2506531	0.0100	0.008382	M
						RPD = 8.47	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	2325909	0.0100	0.0110	
2	6.831	6.829	0.002	14359475	0.0100	0.0102	
						RPD = 7.53	
7 Dicamba							
1	6.721	6.720	0.001	5346345	0.005000	0.004964	
2	6.911	6.910	0.001	23620770	0.005000	0.004716	
						RPD = 5.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	383358	1.00	1.63	
2	6.956	6.955	0.001	7884133	1.00	0.9383	
						RPD = 53.96	
9 MCPA							
1	6.996	6.994	0.002	684536	1.00	0.7393	
2	7.156	7.155	0.001	12132999	1.00	2.39	
						RPD = 105.59	
10 Dichlorprop							
1	7.182	7.180	0.002	2699462	0.0100	0.009728	
2	7.299	7.297	0.002	15301912	0.0100	0.0109	
						RPD = 10.94	
11 2,4-D							a
1	7.346	7.326	0.020	2400934	0.0100	0.007940	a
2	7.531	7.517	0.014	14551198	0.0100	0.009131	a
						RPD = 13.96	
12 Pentachlorophenol							
1	7.674	7.674	0.000	11008502	0.002500	0.002045	
2	7.713	7.714	-0.001	41165516	0.002500	0.002189	
						RPD = 6.80	
13 Silvex (2,4,5-TP)							
1	7.776	7.769	0.007	3531202	0.002500	0.001880	
2	7.851	7.846	0.005	16213772	0.002500	0.002194	
						RPD = 15.42	
14 Chloramben							
1	7.868	7.855	0.013	10146304	0.0100	0.0173	
2	8.171	8.162	0.009	45179417	0.0100	0.008031	
						RPD = 72.95	
15 2,4,5-T							
1	7.937	7.929	0.008	5683855	0.002500	0.002591	
2	8.089	8.083	0.006	14207297	0.002500	0.002138	
						RPD = 19.17	
16 2,4-DB							Ma
1	8.185	8.175	0.010	957156	0.0100	0.0196	M
2	8.312	8.302	0.010	10871976	0.0100	0.0110	a
						RPD = 56.23	
17 Dinoseb							
1	8.227	8.224	0.003	10802376	0.0100	0.008826	
2	8.251	8.248	0.003	30077804	0.0100	0.0133	
						RPD = 40.12	
18 Bentazon							
1	8.306	8.300	0.006	3164677	0.0100	0.0110	
2	8.665	8.662	0.003	7803979	0.0100	0.009707	
						RPD = 12.54	
19 Picloram							a
1	8.546	8.529	0.017	16249913	0.0100	0.0167	a
2	9.014	9.005	0.009	57128370	0.0100	0.0144	a
						RPD = 14.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	28939470	0.0100	0.008788	
2	8.777	8.775	0.002	86672796	0.0100	0.008825	
						RPD = 0.42	
21 Acifluorfen							
1	9.670	9.666	0.004	18199991	0.0100	0.0138	
2	9.794	9.792	0.002	40645245	0.0100	0.0156	
						RPD = 11.77	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

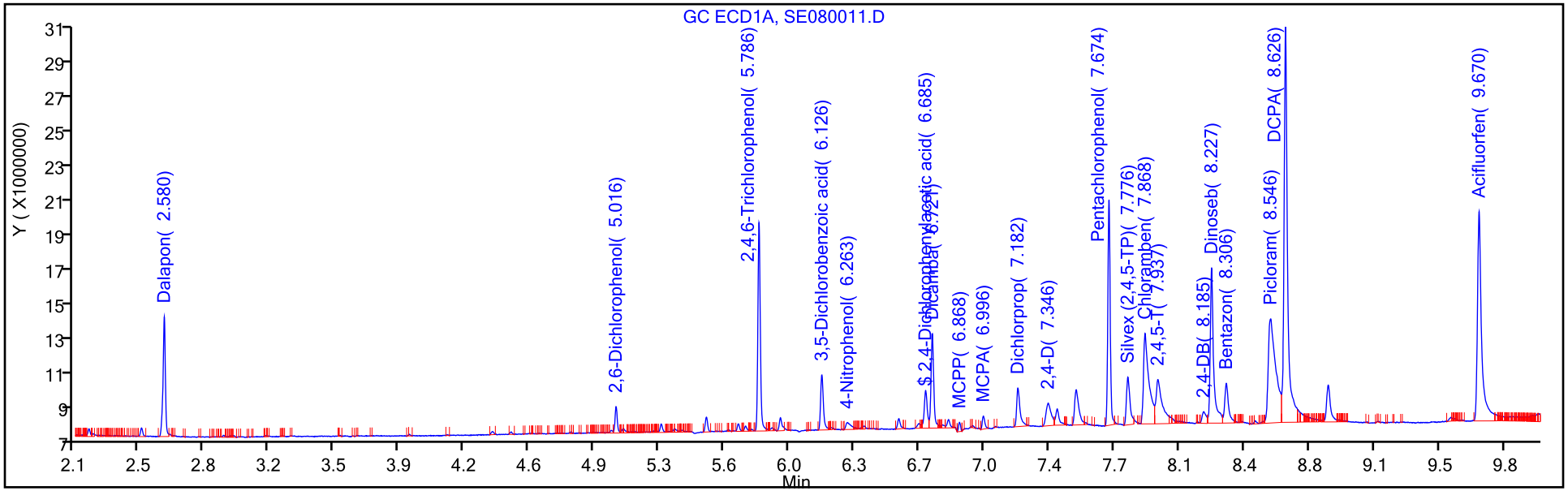
Report Date: 08-May-2018 16:25:46 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

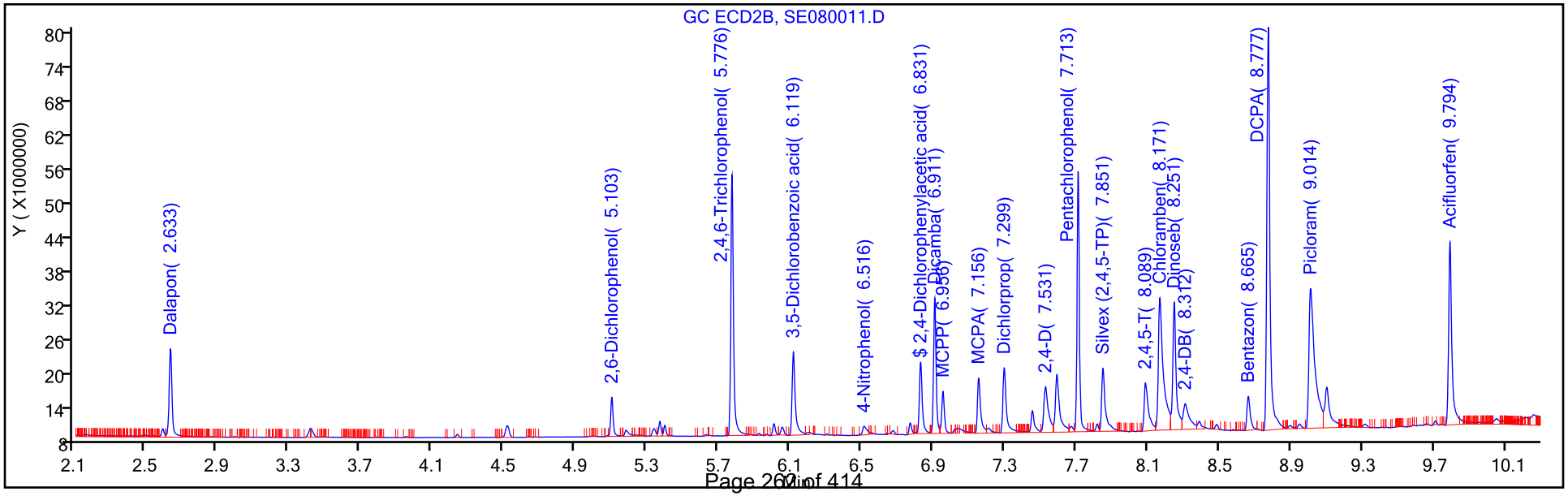
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

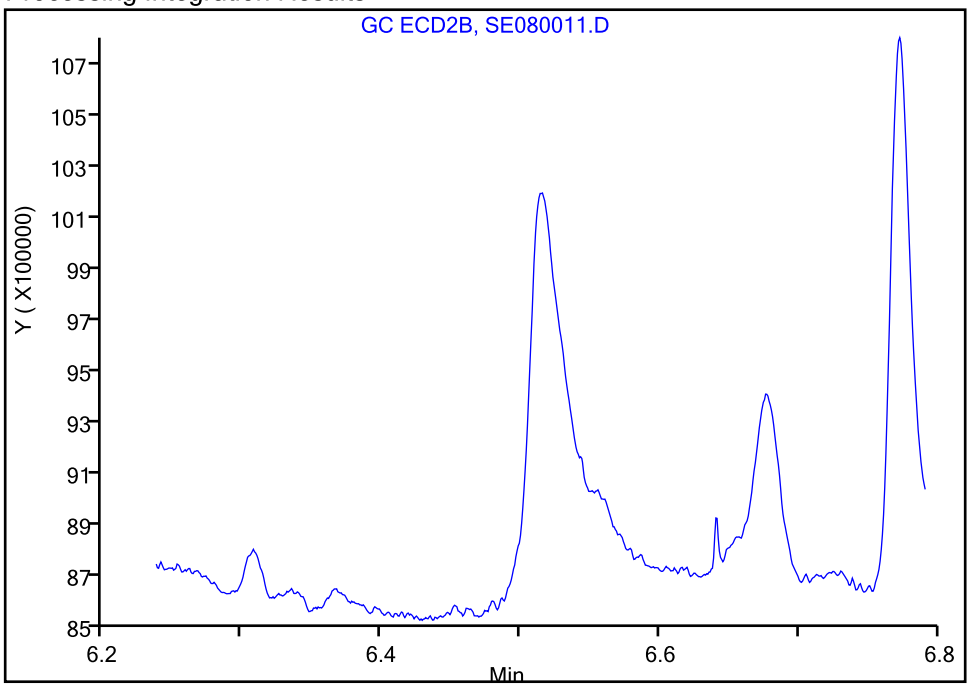
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

5 4-Nitrophenol, CAS: 100-02-7

Signal: 2

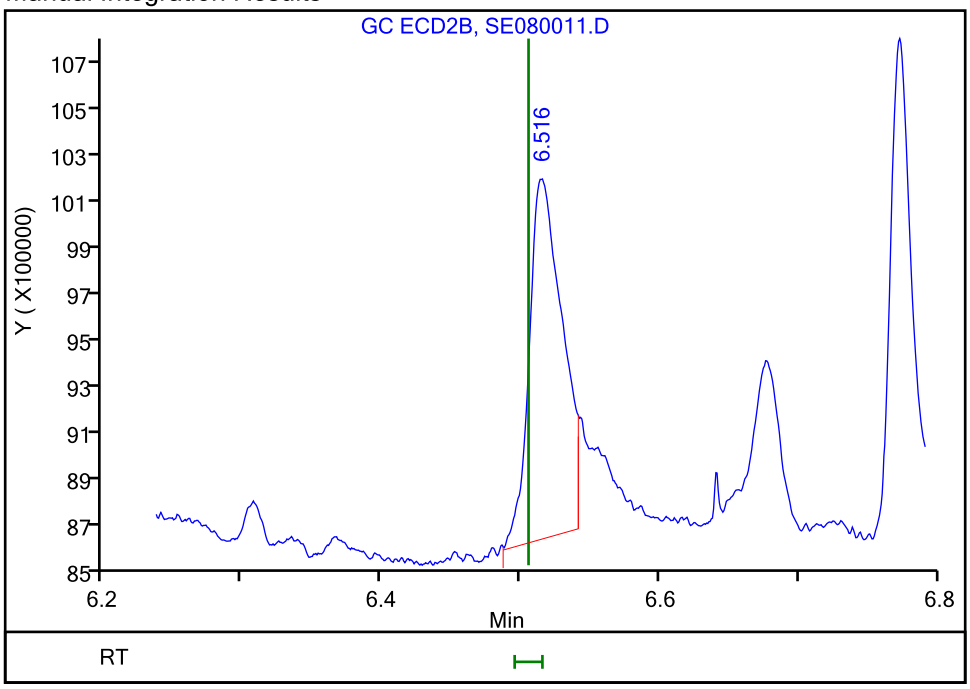
Processing Integration Results

RT: 6.51
Area: 0
Amount: 0.007640
Amount Units: ug/ml



Manual Integration Results

RT: 6.52
Area: 2506531
Amount: 0.008382
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:20
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

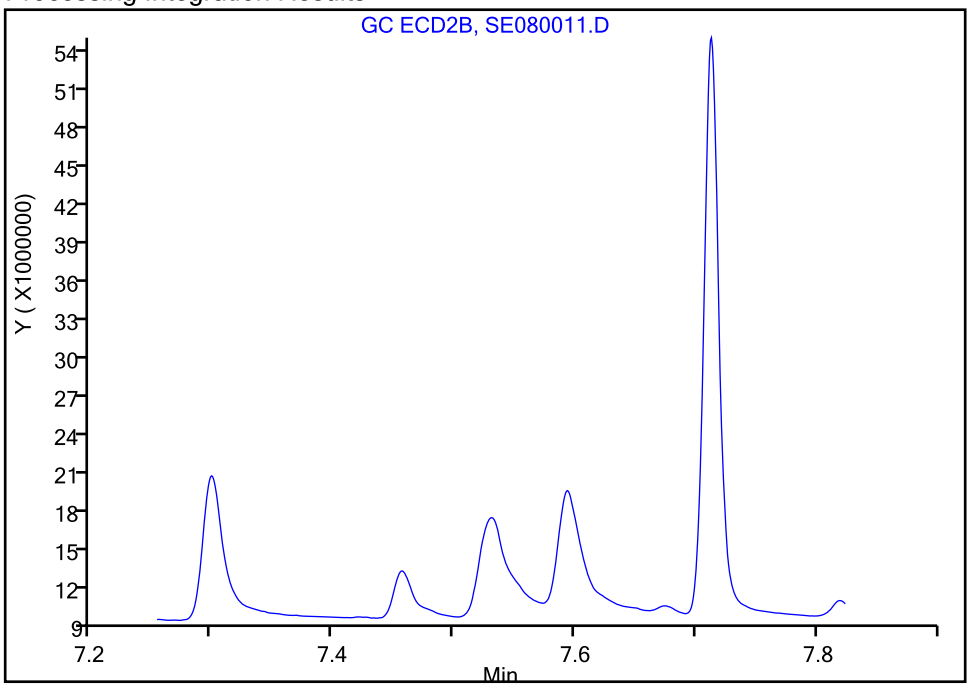
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS		
Lims ID:	ic h1				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

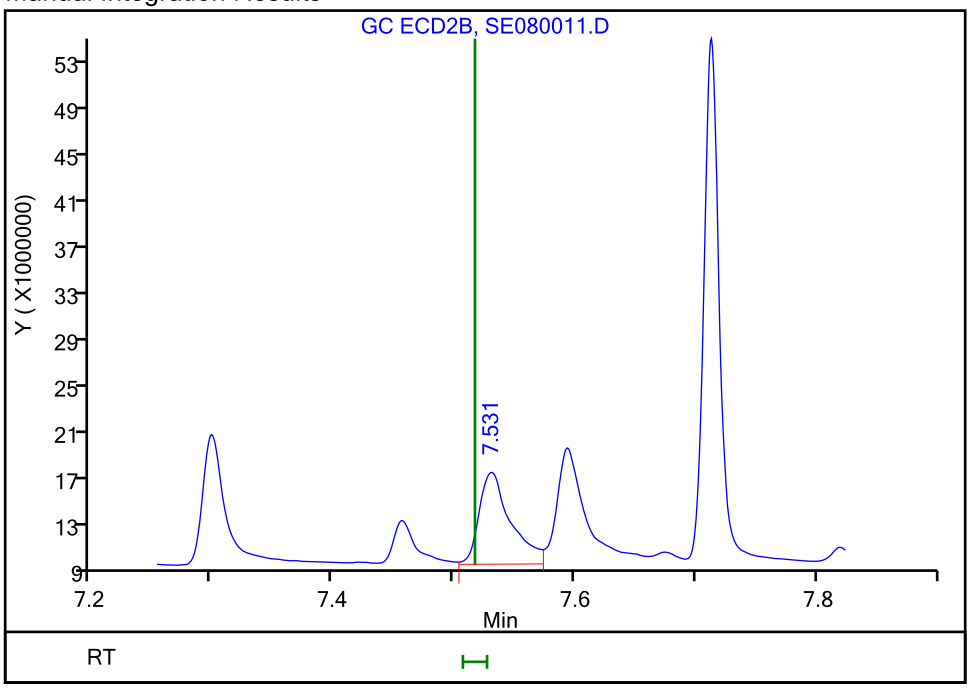
Not Detected
Expected RT: 7.52

Processing Integration Results



Manual Integration Results

RT: 7.53
Area: 14551198
Amount: 0.009131
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:16
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

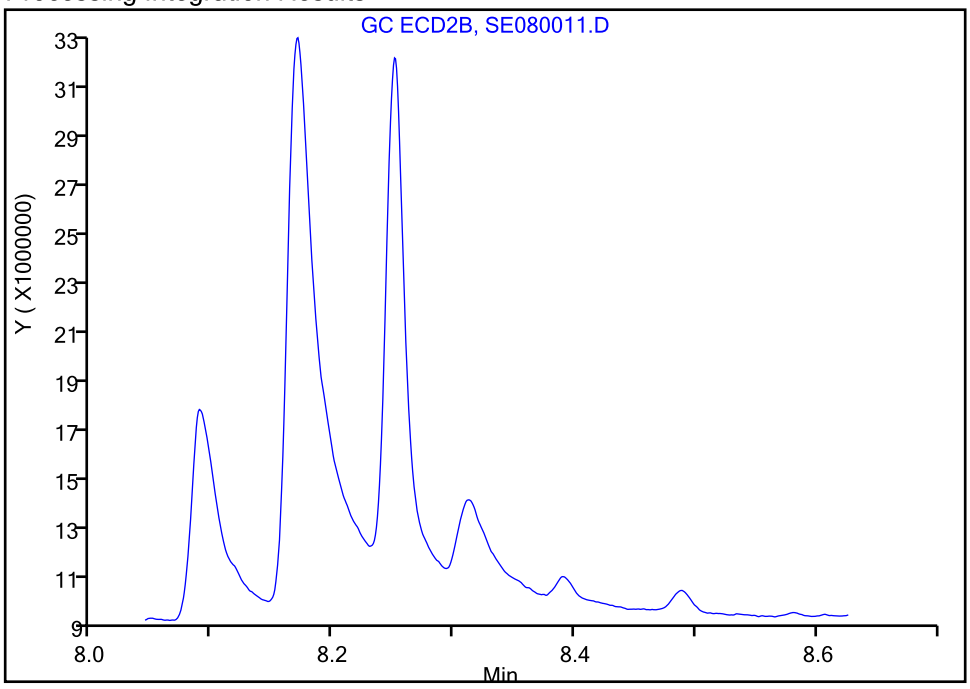
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Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

16 2,4-DB, CAS: 94-82-6

Signal: 2

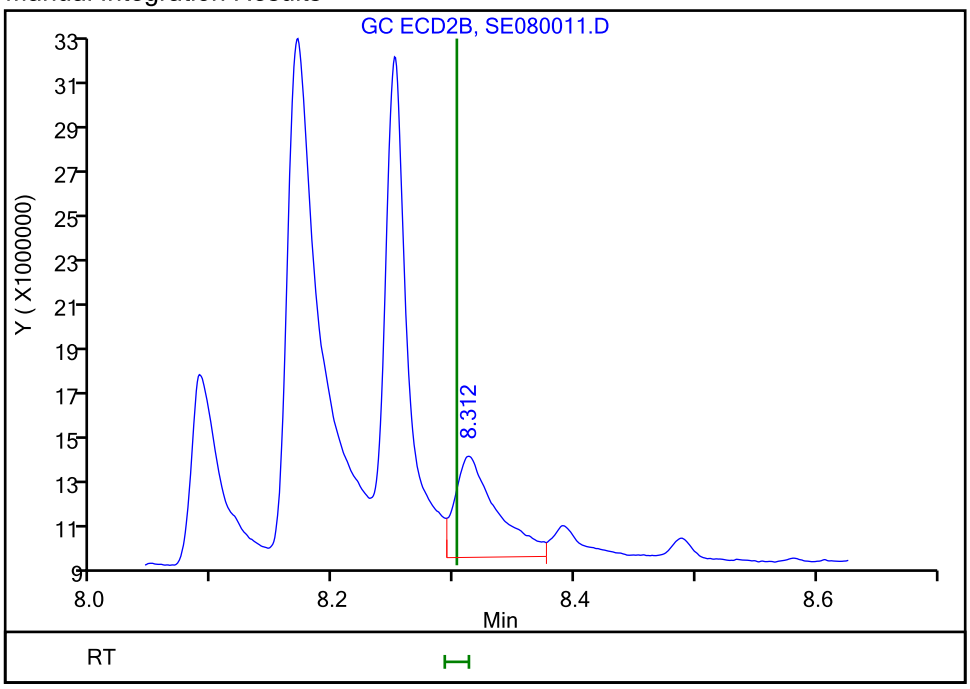
Processing Integration Results

RT: 8.30
Area: 0
Amount: 0.021175
Amount Units: ug/ml



Manual Integration Results

RT: 8.31
Area: 10871976
Amount: 0.011023
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:35
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

TestAmerica Savannah

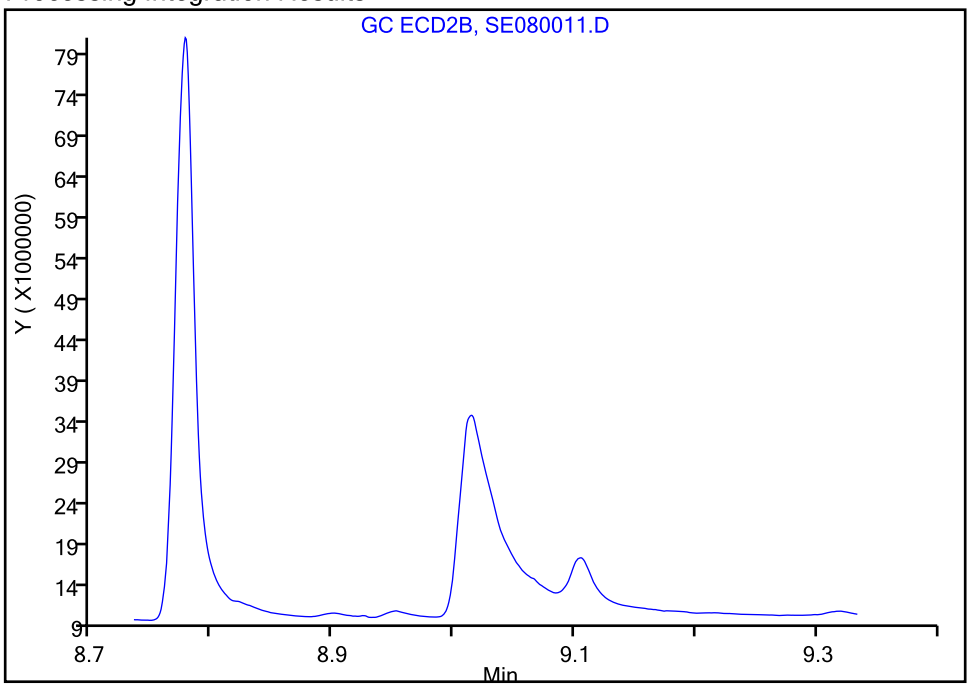
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

19 Picloram, CAS: 1918-02-1

Signal: 2

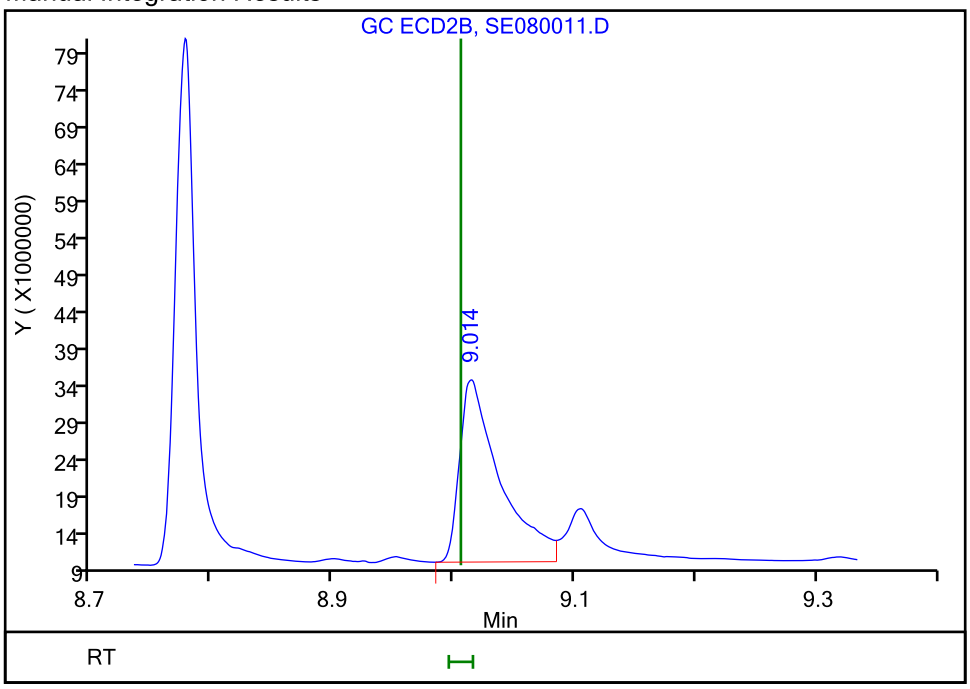
Not Detected
Expected RT: 9.01

Processing Integration Results



Manual Integration Results

RT: 9.01
Area: 57128370
Amount: 0.014446
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:45
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Calibration / Dalapon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

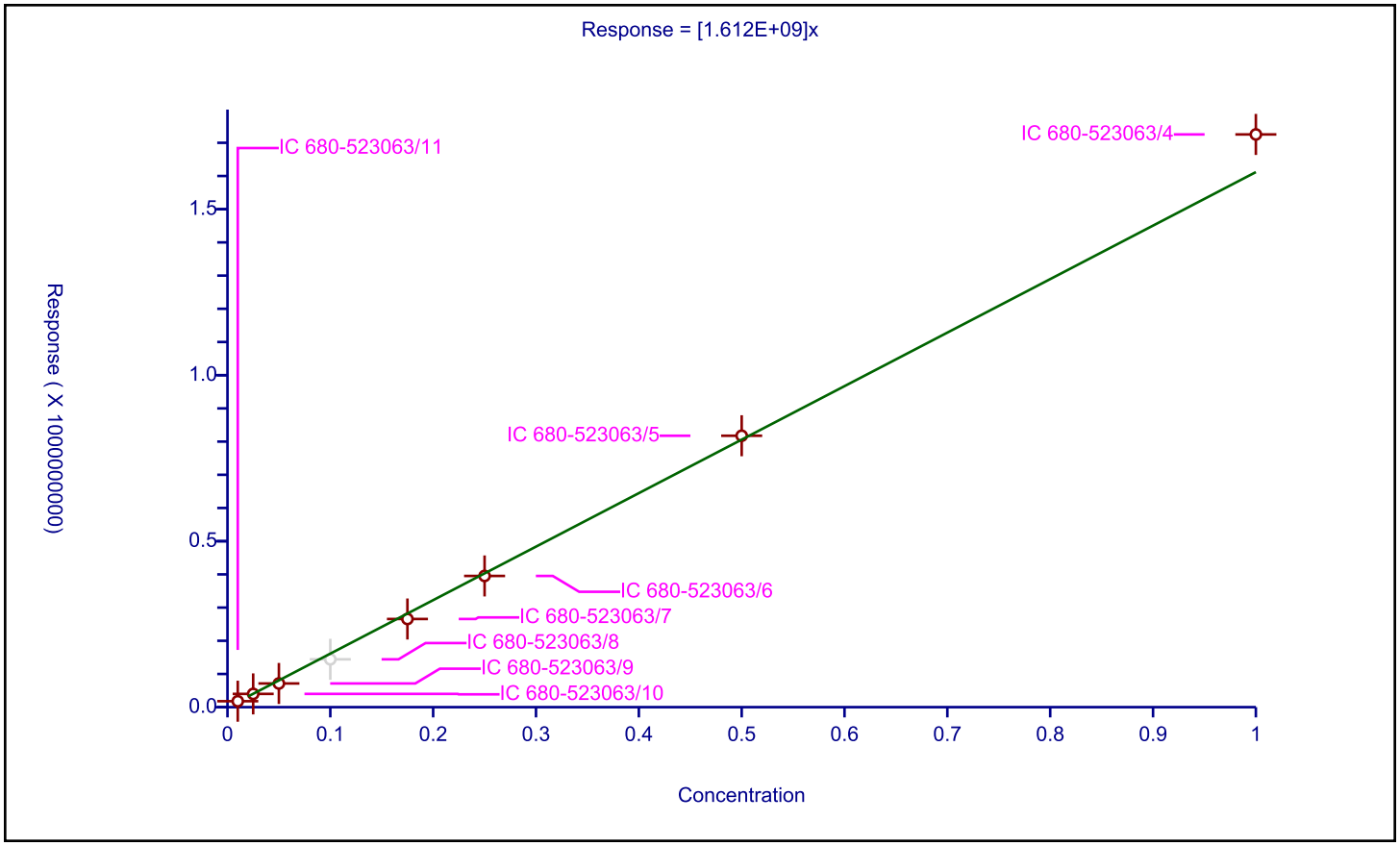
Curve Coefficients

Intercept:	0
Slope:	1.612E+09

Error Coefficients

Standard Error:	47300000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	17983150.0			1798315000.0	Y
2	IC 680-523063/10	0.025	39932951.0			1597318040.0	Y
3	IC 680-523063/9	0.05	71378402.0			1427568040.0	Y
4	IC 680-523063/8	0.1	144107629.0			1441076290.0	N
5	IC 680-523063/7	0.175	265586882.0			1517639325.71429	Y
6	IC 680-523063/6	0.25	395304302.0			1581217208.0	Y
7	IC 680-523063/5	0.5	817578391.0			1635156782.0	Y
8	IC 680-523063/4	1.0	1725206867.0			1725206867.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

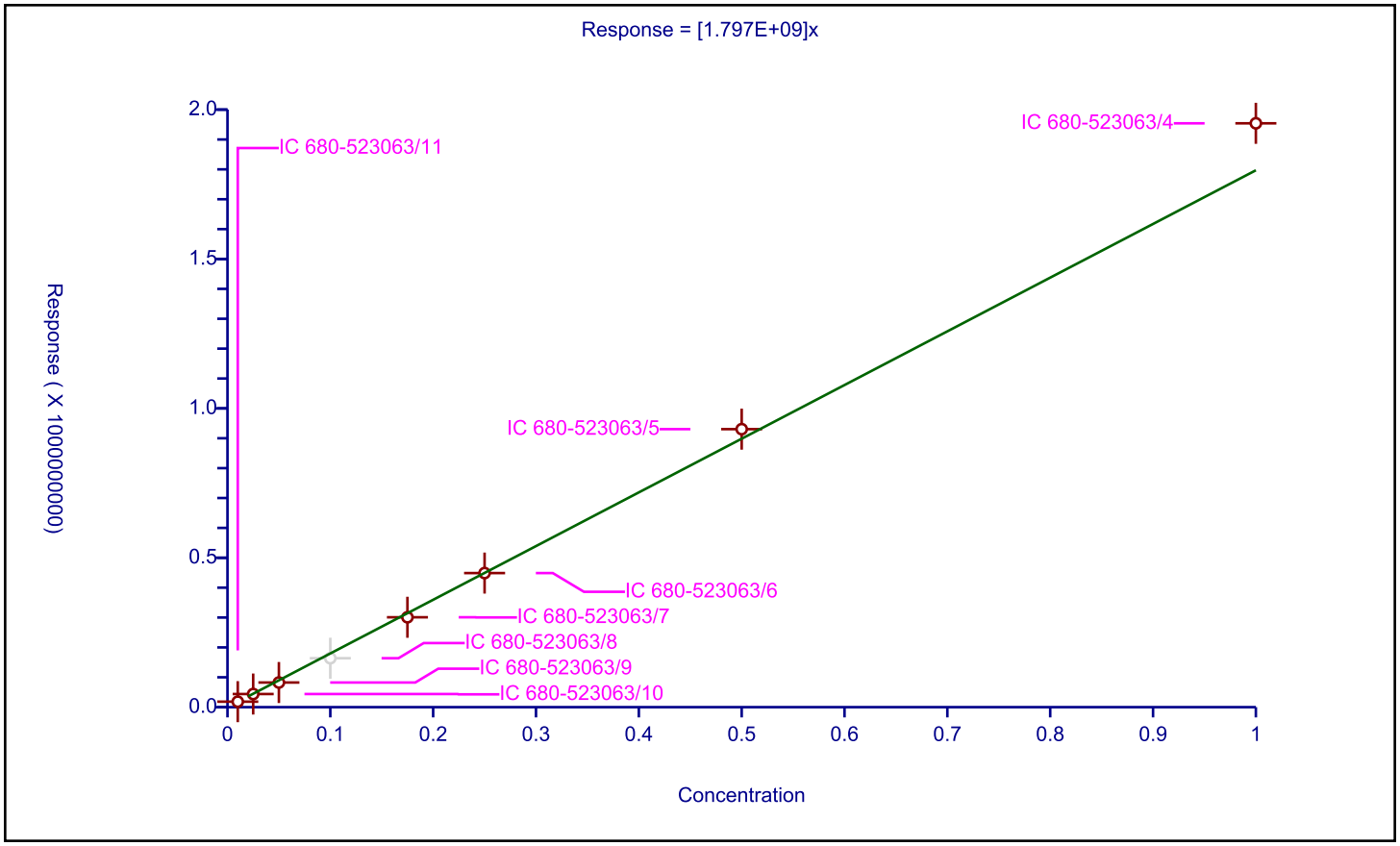
Curve Coefficients

Intercept:	0
Slope:	1.797E+09

Error Coefficients

Standard Error:	65800000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	18377513.0			1837751300.0	Y
2	IC 680-523063/10	0.025	44015926.0			1760637040.0	Y
3	IC 680-523063/9	0.05	82525138.0			1650502760.0	Y
4	IC 680-523063/8	0.1	163818500.0			1638185000.0	N
5	IC 680-523063/7	0.175	300893318.0			1719390388.57143	Y
6	IC 680-523063/6	0.25	448811682.0			1795246728.0	Y
7	IC 680-523063/5	0.5	930526789.0			1861053578.0	Y
8	IC 680-523063/4	1.0	1954171685.0			1954171685.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

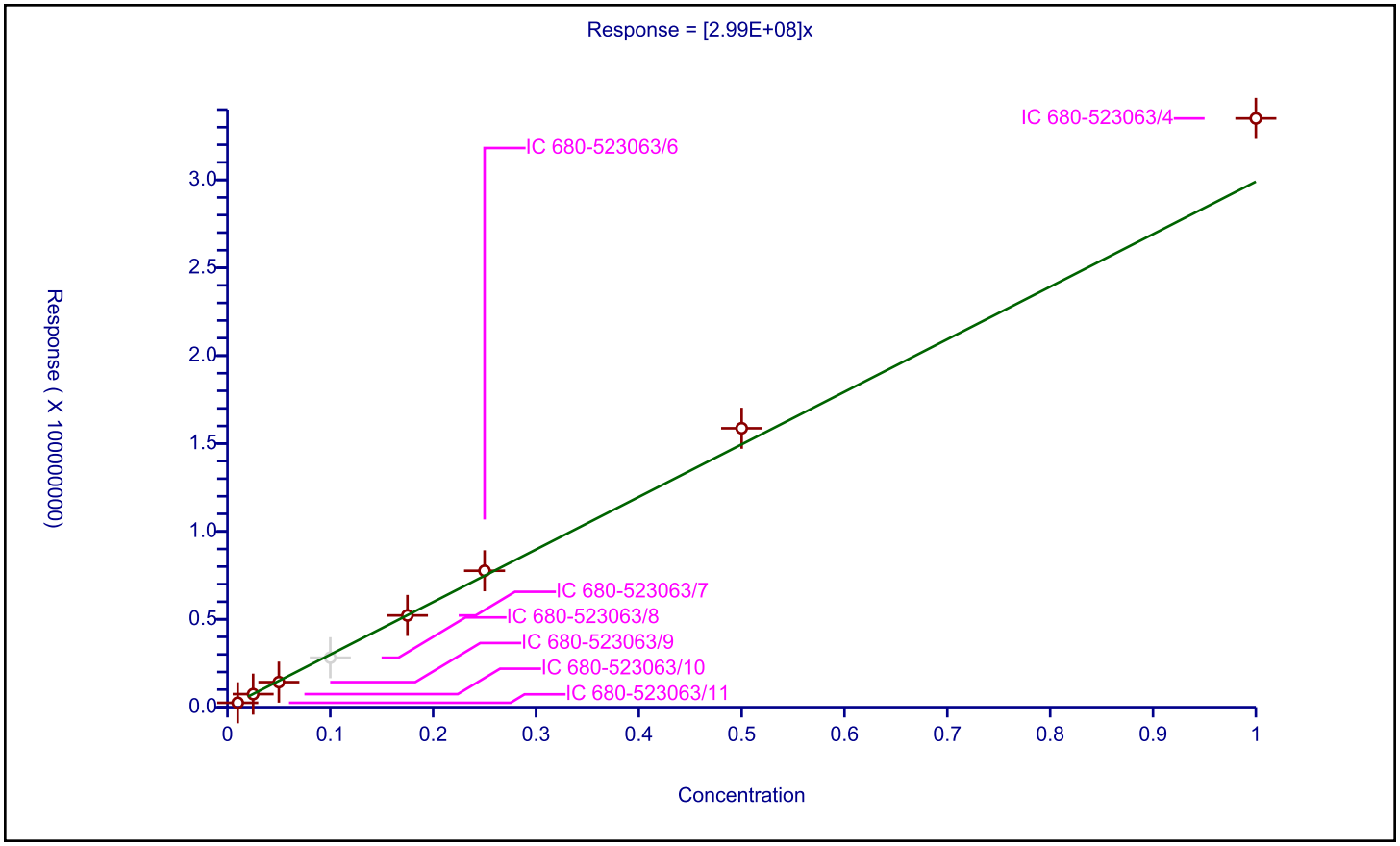
Curve Coefficients

Intercept:	0
Slope:	2.99E+08

Error Coefficients

Standard Error:	15200000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2506531.0			250653100.0	Y
2	IC 680-523063/10	0.025	7416225.0			296649000.0	Y
3	IC 680-523063/9	0.05	14245923.0			284918460.0	Y
4	IC 680-523063/8	0.1	28145758.0			281457580.0	N
5	IC 680-523063/7	0.175	52193224.0			298246994.285714	Y
6	IC 680-523063/6	0.25	77606749.0			310426996.0	Y
7	IC 680-523063/5	0.5	158696116.0			317392232.0	Y
8	IC 680-523063/4	1.0	334991246.0			334991246.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

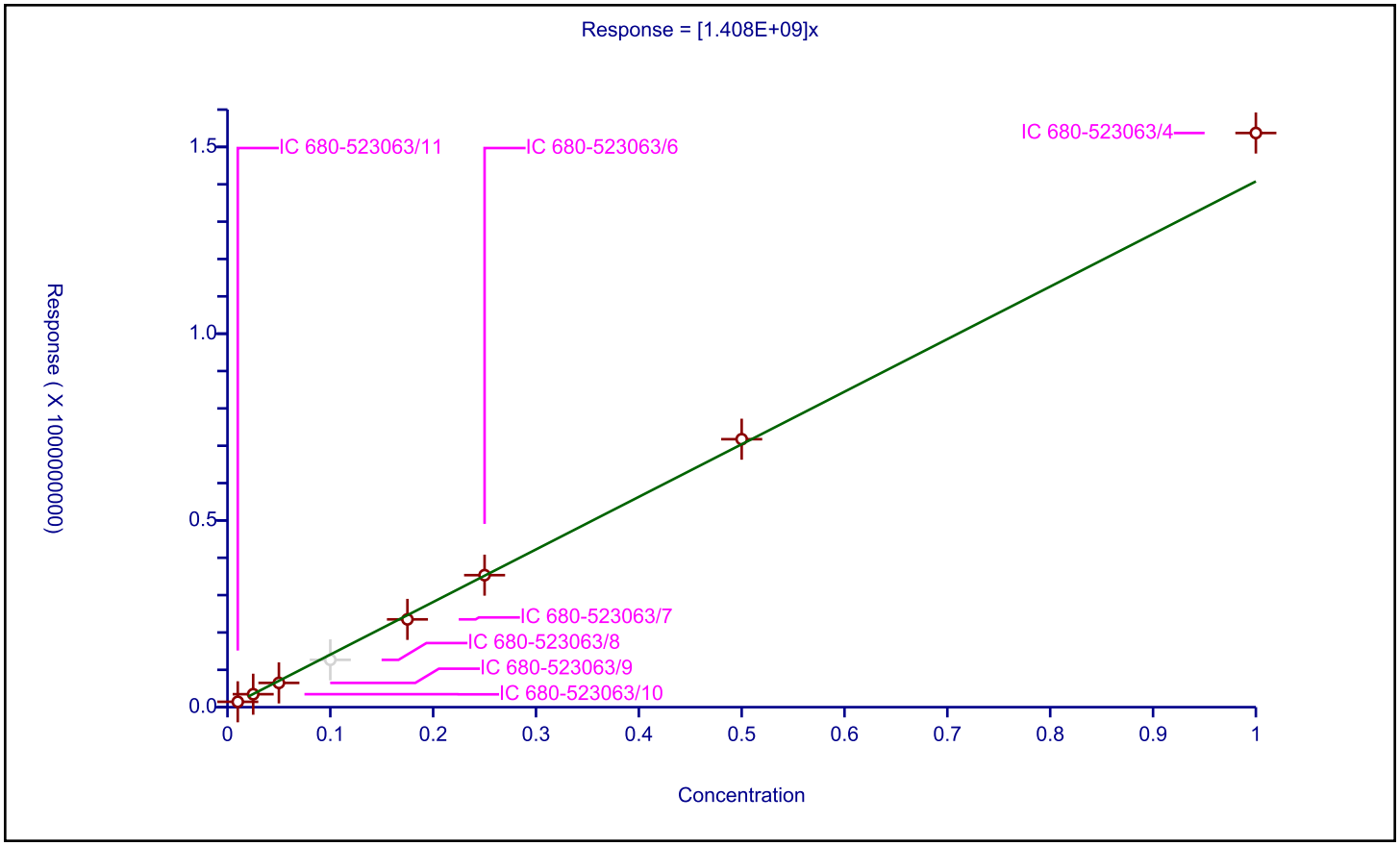
Curve Coefficients

Intercept:	0
Slope:	1.408E+09

Error Coefficients

Standard Error:	53400000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	14359475.0			1435947500.0	Y
2	IC 680-523063/10	0.025	34723127.0			1388925080.0	Y
3	IC 680-523063/9	0.05	65002540.0			1300050800.0	Y
4	IC 680-523063/8	0.1	126698158.0			1266981580.0	N
5	IC 680-523063/7	0.175	235040238.0			1343087074.28571	Y
6	IC 680-523063/6	0.25	353488120.0			1413952480.0	Y
7	IC 680-523063/5	0.5	717491043.0			1434982086.0	Y
8	IC 680-523063/4	1.0	1537345376.0			1537345376.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

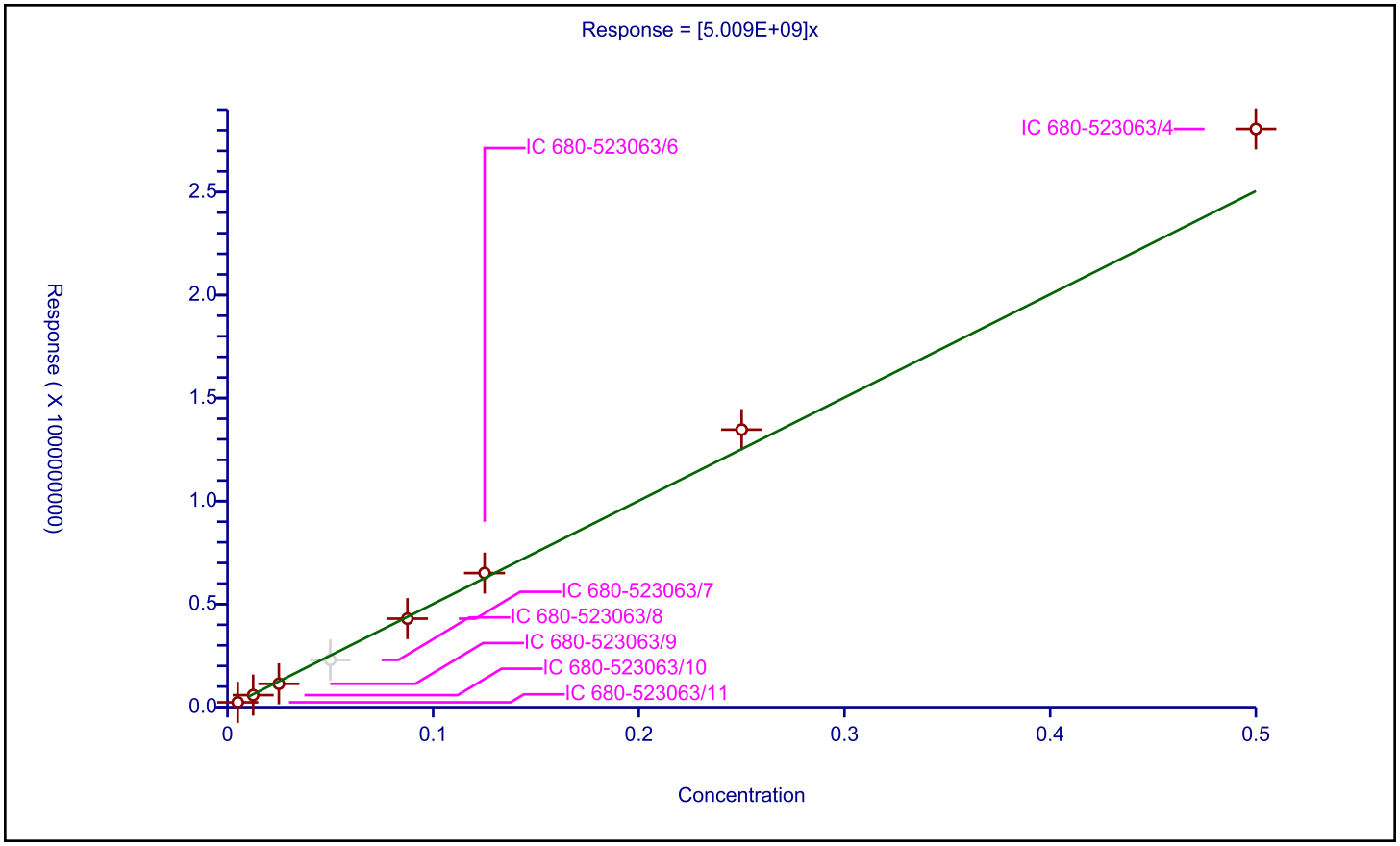
Curve Coefficients

Intercept:	0
Slope:	5.009E+09

Error Coefficients

Standard Error:	130000000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.005	23620770.0			4724154000.0	Y
2	IC 680-523063/10	0.0125	58578625.0			4686290000.0	Y
3	IC 680-523063/9	0.025	113374207.0			4534968280.0	Y
4	IC 680-523063/8	0.05	229111440.0			4582228800.0	N
5	IC 680-523063/7	0.0875	429620976.0			4909954011.42857	Y
6	IC 680-523063/6	0.125	650915415.0			5207323320.0	Y
7	IC 680-523063/5	0.25	1347001642.0			5388006568.0	Y
8	IC 680-523063/4	0.5	2806366329.0			5612732658.0	Y



Calibration / MCPP

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

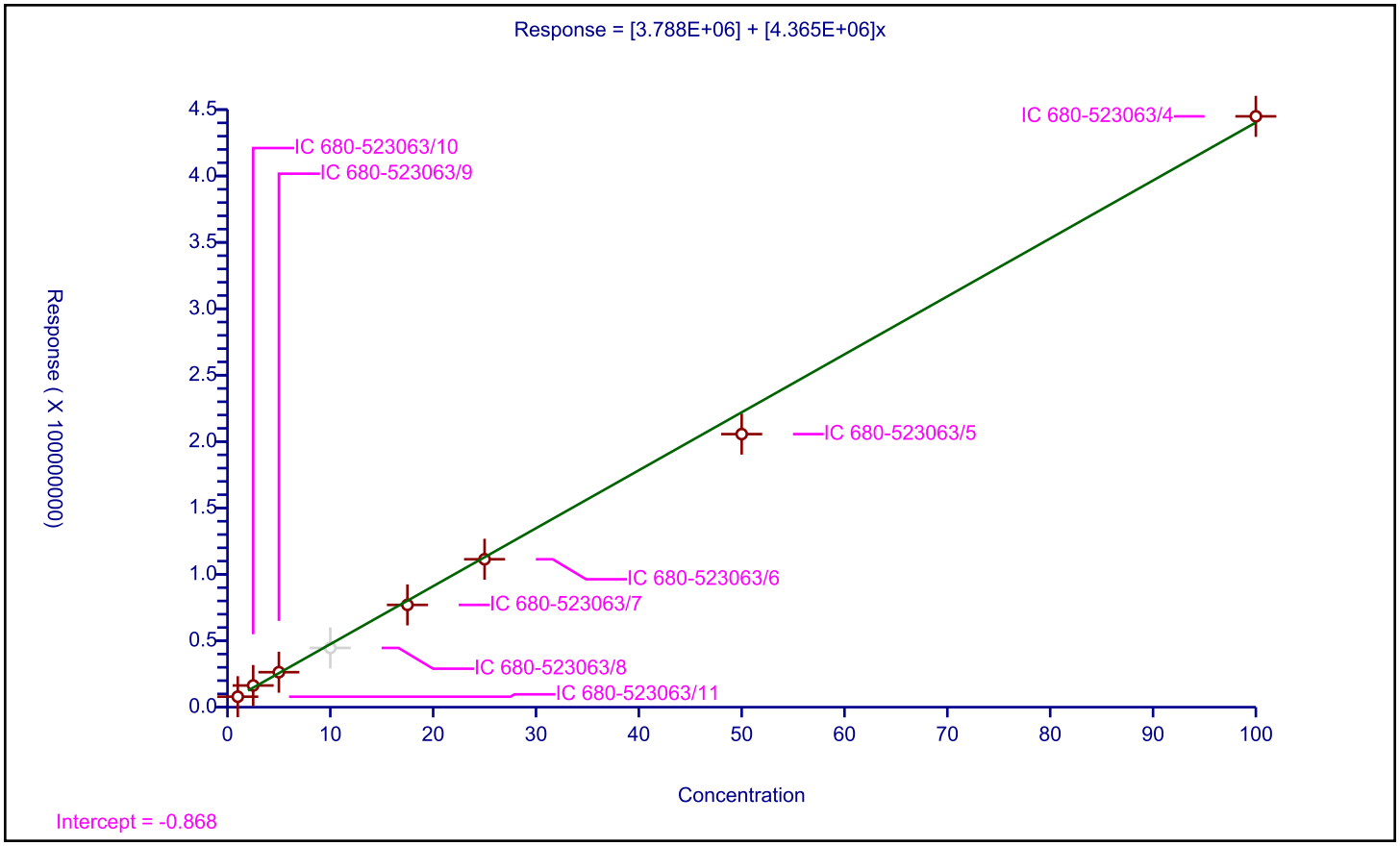
Curve Coefficients

Intercept:	3.788E+06
Slope:	4.365E+06

Error Coefficients

Standard Error:	7830000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	7884133.0			7884133.0	Y
2	IC 680-523063/10	2.5	16319936.0			6527974.4	Y
3	IC 680-523063/9	5.0	26339273.0			5267854.6	Y
4	IC 680-523063/8	10.0	44613118.0			4461311.8	N
5	IC 680-523063/7	17.5	77011106.0			4400634.628571	Y
6	IC 680-523063/6	25.0	111381364.0			4455254.56	Y
7	IC 680-523063/5	50.0	205635557.0			4112711.14	Y
8	IC 680-523063/4	100.0	444937631.0			4449376.31	Y



Calibration / MCPA

Curve Type:	Quadratic
Weighting:	None
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

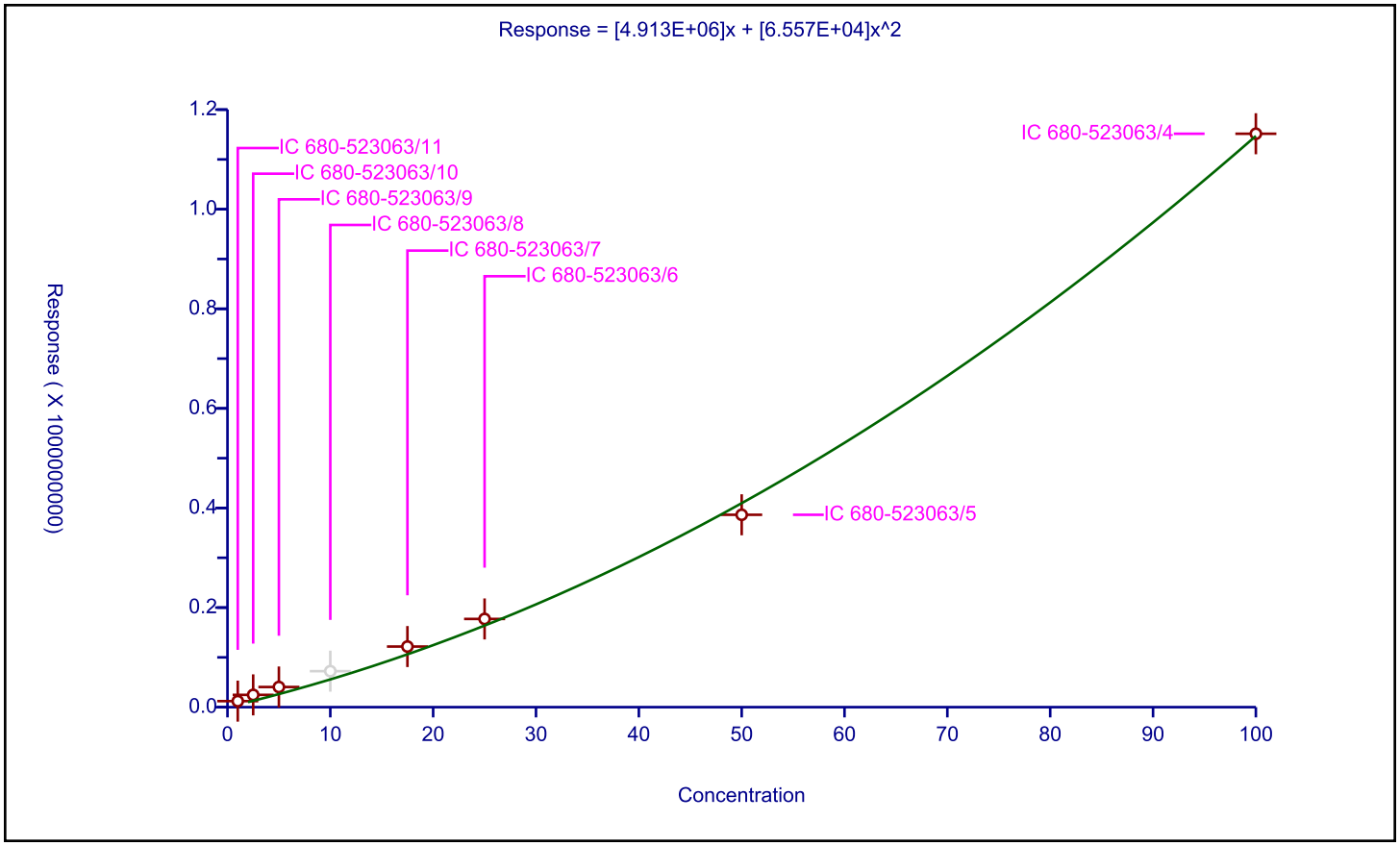
Curve Coefficients

Intercept:	0
Slope:	4.913E+06
Second Order:	6.557E+04

Error Coefficients

Standard Error:	16600000
Relative Standard Error:	77.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	12132999.0			12132999.0	Y
2	IC 680-523063/10	2.5	24668652.0			9867460.8	Y
3	IC 680-523063/9	5.0	40478712.0			8095742.4	Y
4	IC 680-523063/8	10.0	72306759.0			7230675.9	N
5	IC 680-523063/7	17.5	121752778.0			6957301.6	Y
6	IC 680-523063/6	25.0	177192173.0			7087686.92	Y
7	IC 680-523063/5	50.0	386345329.0			7726906.58	Y
8	IC 680-523063/4	100.0	1151515629.0			11515156.29	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

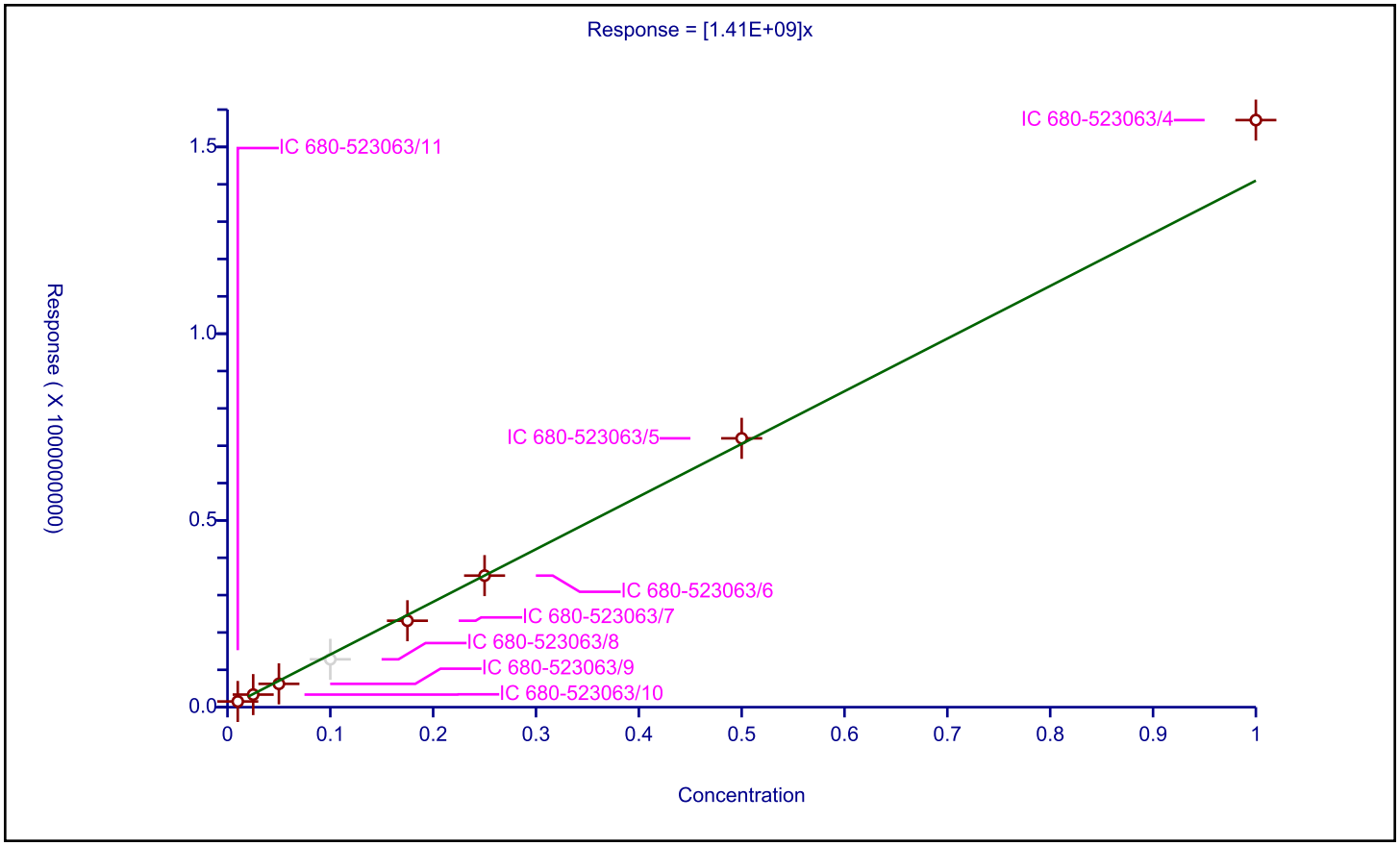
Curve Coefficients

Intercept:	0
Slope:	1.41E+09

Error Coefficients

Standard Error:	66900000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	15301912.0			1530191200.0	Y
2	IC 680-523063/10	0.025	33672808.0			1346912320.0	Y
3	IC 680-523063/9	0.05	62424883.0			1248497660.0	Y
4	IC 680-523063/8	0.1	128102012.0			1281020120.0	N
5	IC 680-523063/7	0.175	231436814.0			1322496080.0	Y
6	IC 680-523063/6	0.25	352257271.0			1409029084.0	Y
7	IC 680-523063/5	0.5	719800477.0			1439600954.0	Y
8	IC 680-523063/4	1.0	1571966456.0			1571966456.0	Y



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

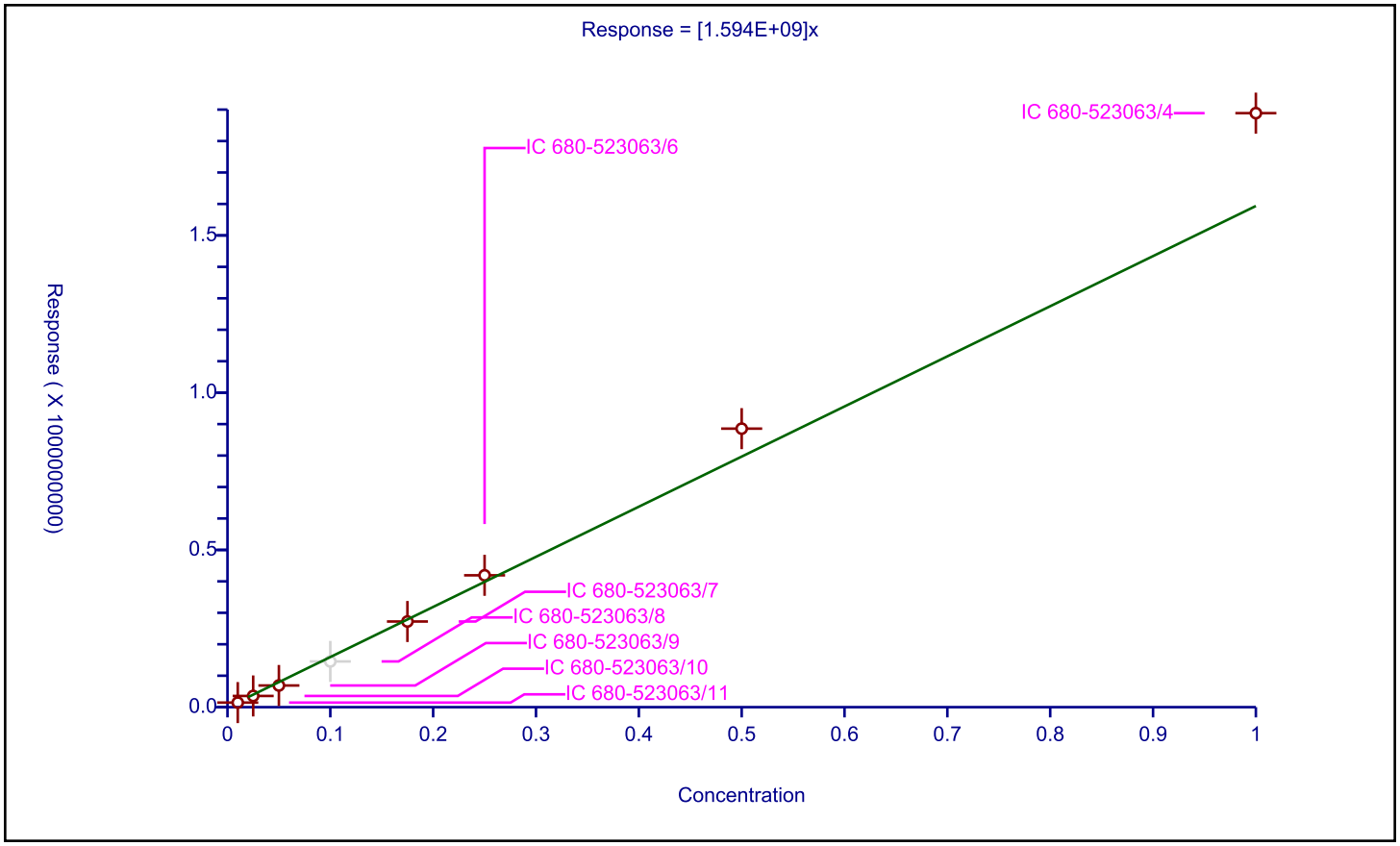
Curve Coefficients

Intercept:	0
Slope:	1.594E+09

Error Coefficients

Standard Error:	126000000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	14551198.0			1455119800.0	Y
2	IC 680-523063/10	0.025	35695833.0			1427833320.0	Y
3	IC 680-523063/9	0.05	68918972.0			1378379440.0	Y
4	IC 680-523063/8	0.1	145386532.0			1453865320.0	N
5	IC 680-523063/7	0.175	272374787.0			1556427354.28571	Y
6	IC 680-523063/6	0.25	419247494.0			1676989976.0	Y
7	IC 680-523063/5	0.5	885627489.0			1771254978.0	Y
8	IC 680-523063/4	1.0	1888747044.0			1888747044.0	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

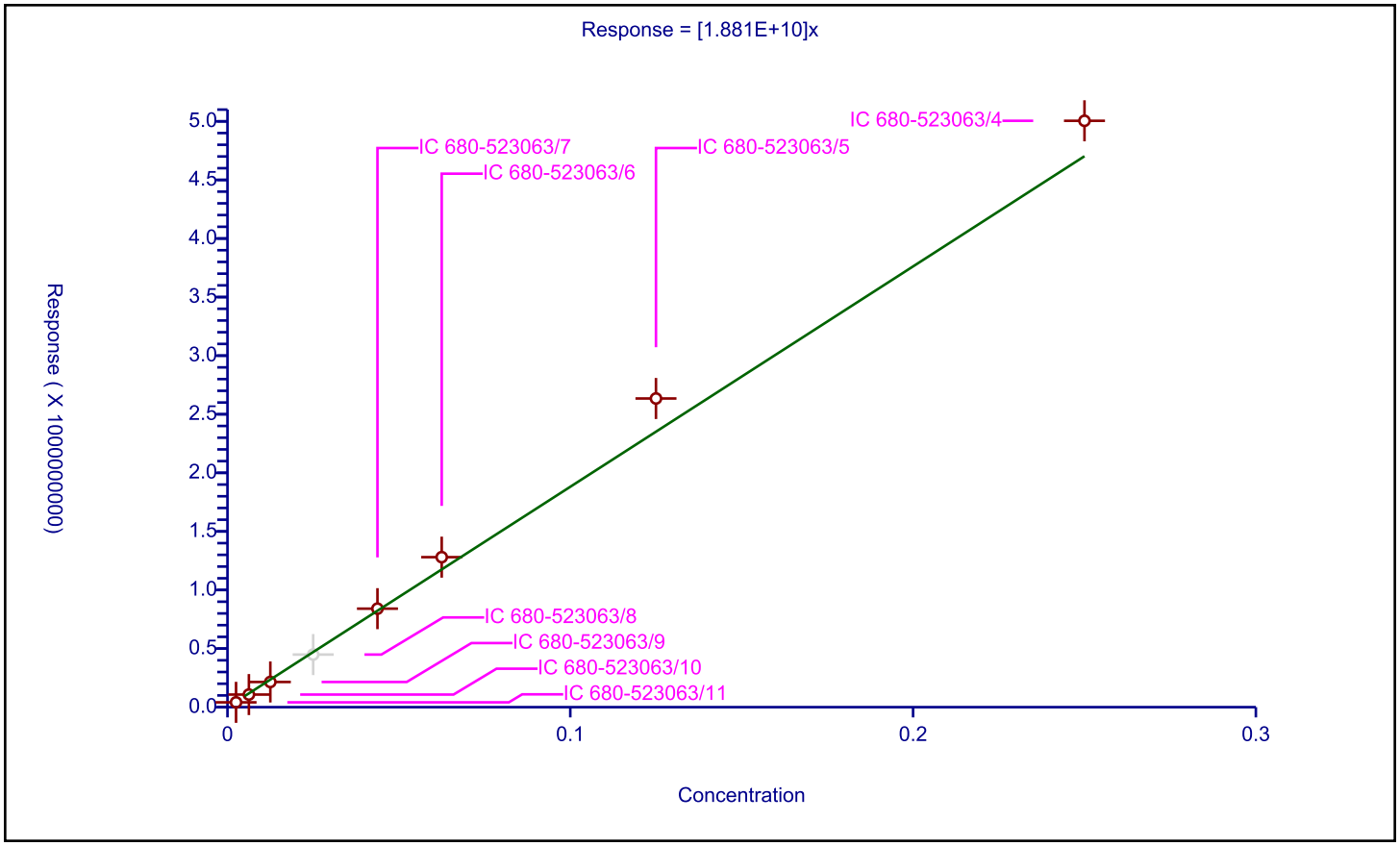
Curve Coefficients

Intercept:	0
Slope:	1.881E+10

Error Coefficients

Standard Error:	175000000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	41165516.0			16466206400.0	Y
2	IC 680-523063/10	0.00625	107509203.0			17201472480.0	Y
3	IC 680-523063/9	0.0125	214964113.0			17197129040.0	Y
4	IC 680-523063/8	0.025	448807878.0			17952315120.0	N
5	IC 680-523063/7	0.04375	840761037.0			19217395131.4286	Y
6	IC 680-523063/6	0.0625	1280290405.0			20484646480.0	Y
7	IC 680-523063/5	0.125	2634537256.0			21076298048.0	Y
8	IC 680-523063/4	0.25	5004401348.0			20017605392.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

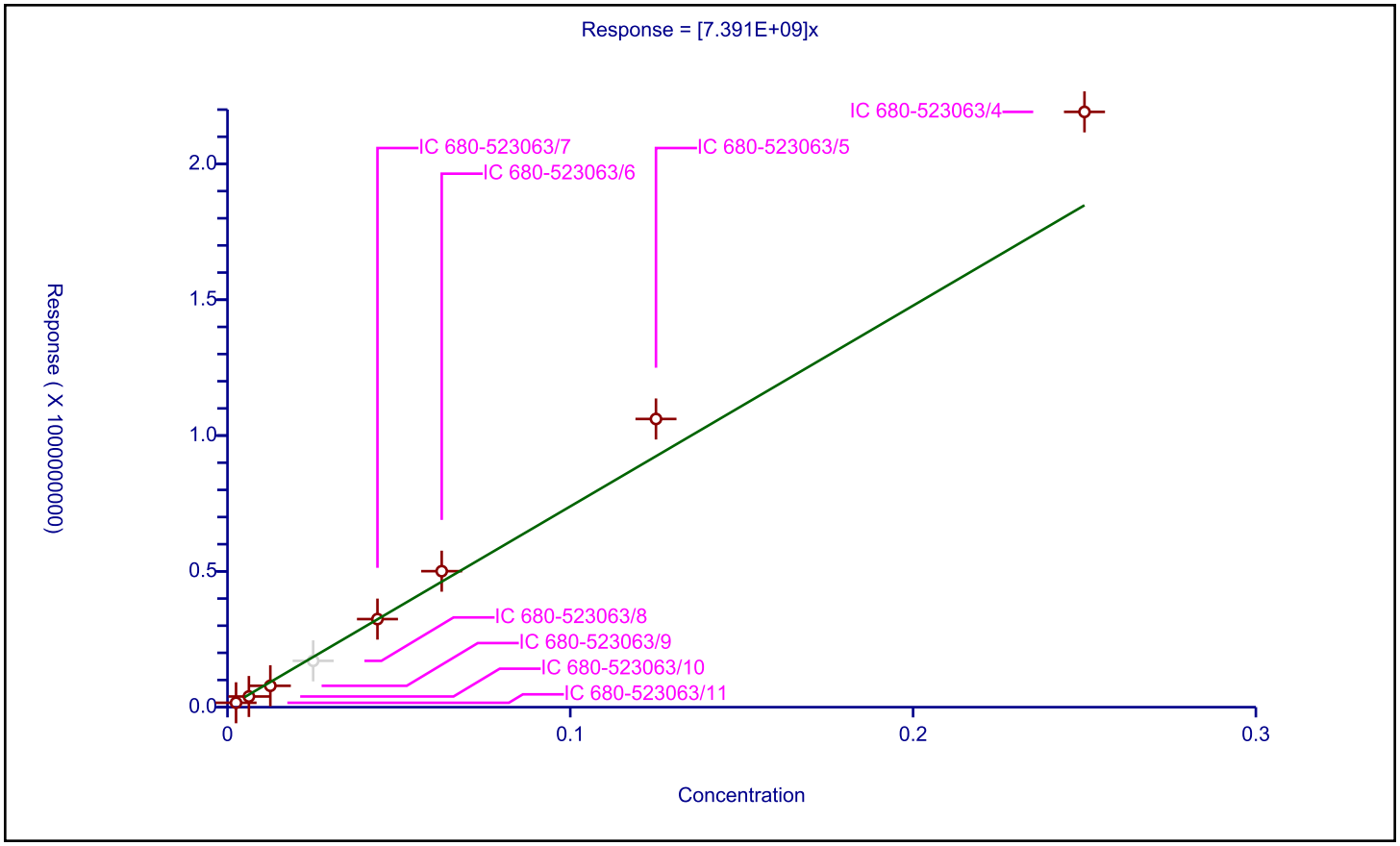
Curve Coefficients

Intercept:	0
Slope:	7.391E+09

Error Coefficients

Standard Error:	152000000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	16213772.0			6485508800.0	Y
2	IC 680-523063/10	0.00625	39284572.0			6285531520.0	Y
3	IC 680-523063/9	0.0125	78639731.0			6291178480.0	Y
4	IC 680-523063/8	0.025	170517091.0			6820683640.0	N
5	IC 680-523063/7	0.04375	324244276.0			7411297737.14286	Y
6	IC 680-523063/6	0.0625	500698059.0			8011168944.0	Y
7	IC 680-523063/5	0.125	1061020220.0			8488161760.0	Y
8	IC 680-523063/4	0.25	2191601950.0			8766407800.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

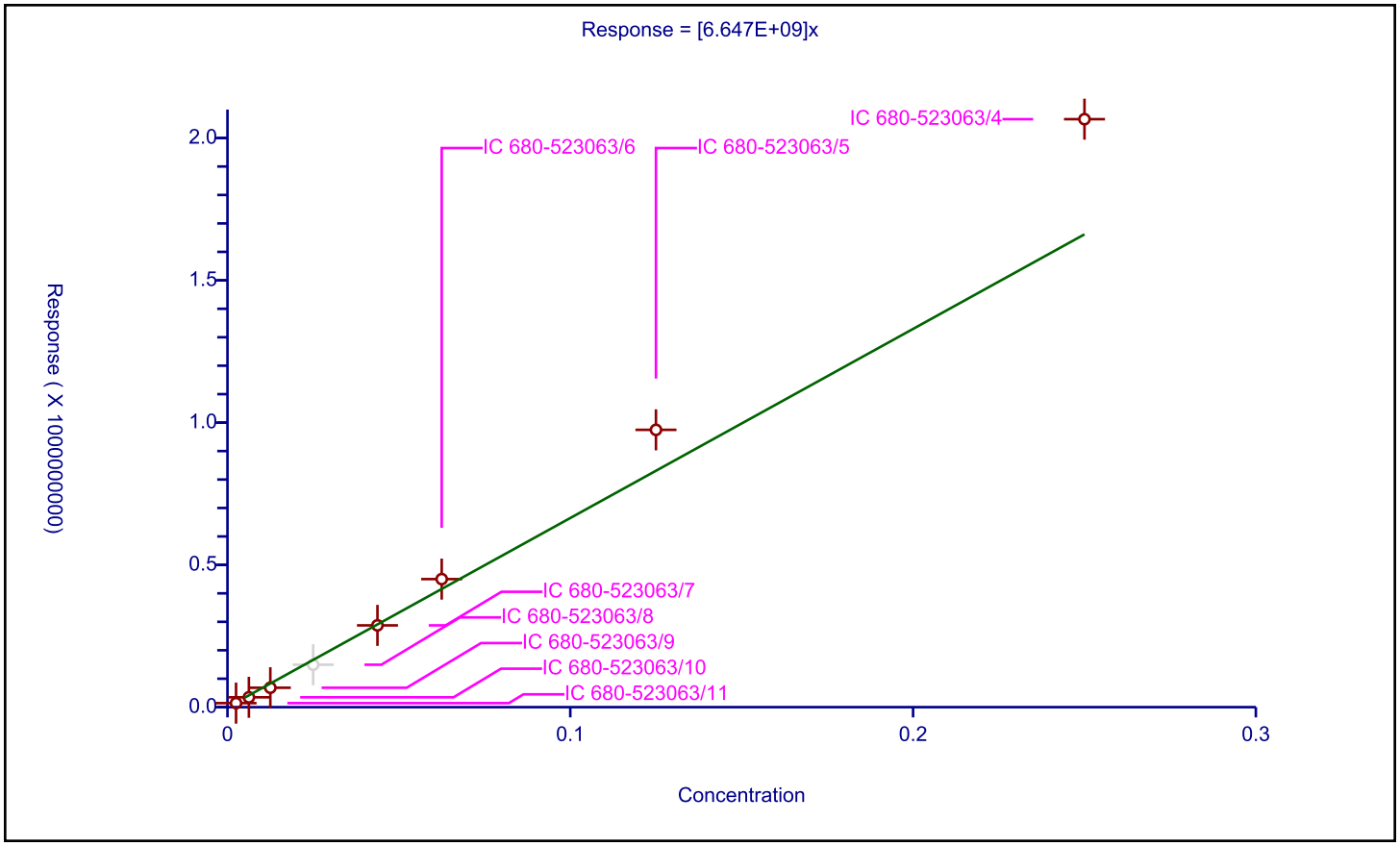
Curve Coefficients

Intercept:	0
Slope:	6.647E+09

Error Coefficients

Standard Error:	176000000
Relative Standard Error:	17.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	14207297.0			5682918800.0	Y
2	IC 680-523063/10	0.00625	34680183.0			5548829280.0	Y
3	IC 680-523063/9	0.0125	68256754.0			5460540320.0	Y
4	IC 680-523063/8	0.025	149160522.0			5966420880.0	N
5	IC 680-523063/7	0.04375	287476934.0			6570901348.57143	Y
6	IC 680-523063/6	0.0625	450029272.0			7200468352.0	Y
7	IC 680-523063/5	0.125	974569507.0			7796556056.0	Y
8	IC 680-523063/4	0.25	2066383005.0			8265532020.0	Y



Calibration / Chloramben

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

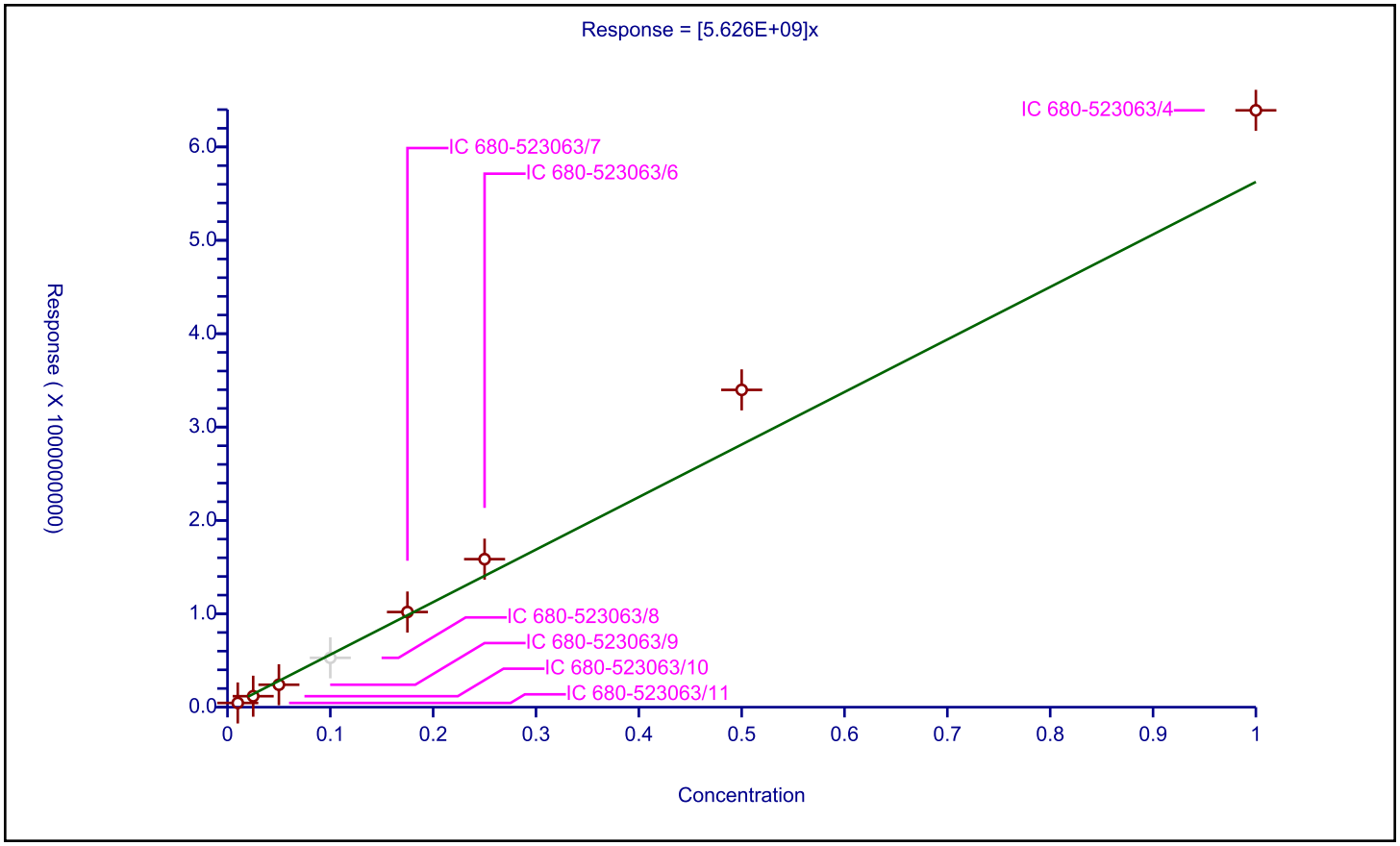
Curve Coefficients

Intercept:	0
Slope:	5.626E+09

Error Coefficients

Standard Error:	401000000
Relative Standard Error:	16.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	45179417.0			4517941700.0	Y
2	IC 680-523063/10	0.025	117512235.0			4700489400.0	Y
3	IC 680-523063/9	0.05	240336393.0			4806727860.0	Y
4	IC 680-523063/8	0.1	528388568.0			5283885680.0	N
5	IC 680-523063/7	0.175	1019151525.0			5823723000.0	Y
6	IC 680-523063/6	0.25	1585218711.0			6340874844.0	Y
7	IC 680-523063/5	0.5	3398296359.0			6796592718.0	Y
8	IC 680-523063/4	1.0	6392220091.0			6392220091.0	Y



Calibration / Dinoseb

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

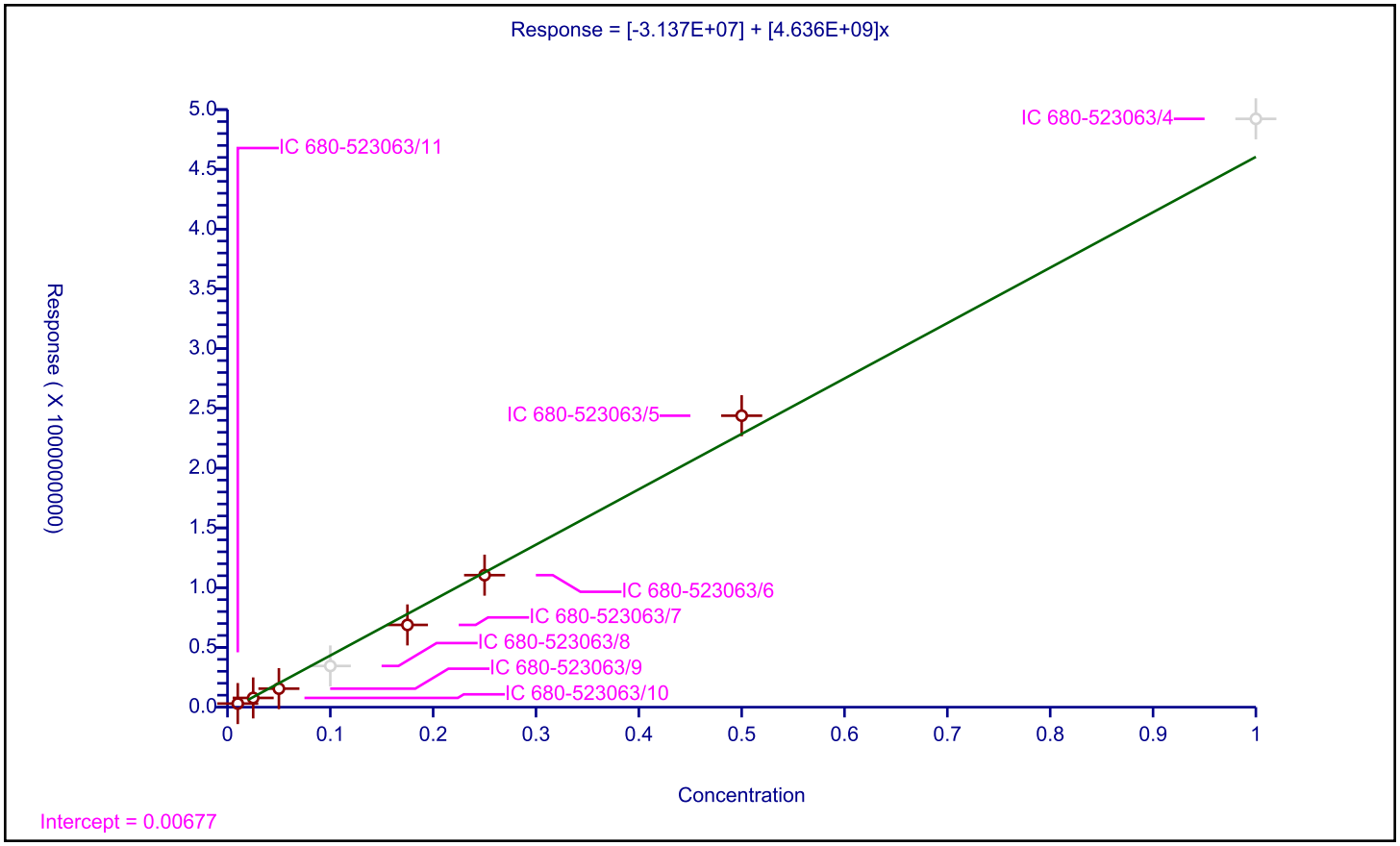
Curve Coefficients

Intercept:	-3.137E+07
Slope:	4.636E+09

Error Coefficients

Standard Error:	92900000
Relative Standard Error:	20.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	30077804.0			3007780400.0	Y
2	IC 680-523063/10	0.025	77307007.0			3092280280.0	Y
3	IC 680-523063/9	0.05	154960345.0			3099206900.0	Y
4	IC 680-523063/8	0.1	344721192.0			3447211920.0	N
5	IC 680-523063/7	0.175	688241161.0			3932806634.28571	Y
6	IC 680-523063/6	0.25	1104528845.0			4418115380.0	Y
7	IC 680-523063/5	0.5	2438912841.0			4877825682.0	Y
8	IC 680-523063/4	1.0	4922703086.0			4922703086.0	N



Calibration / 2,4-DB

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

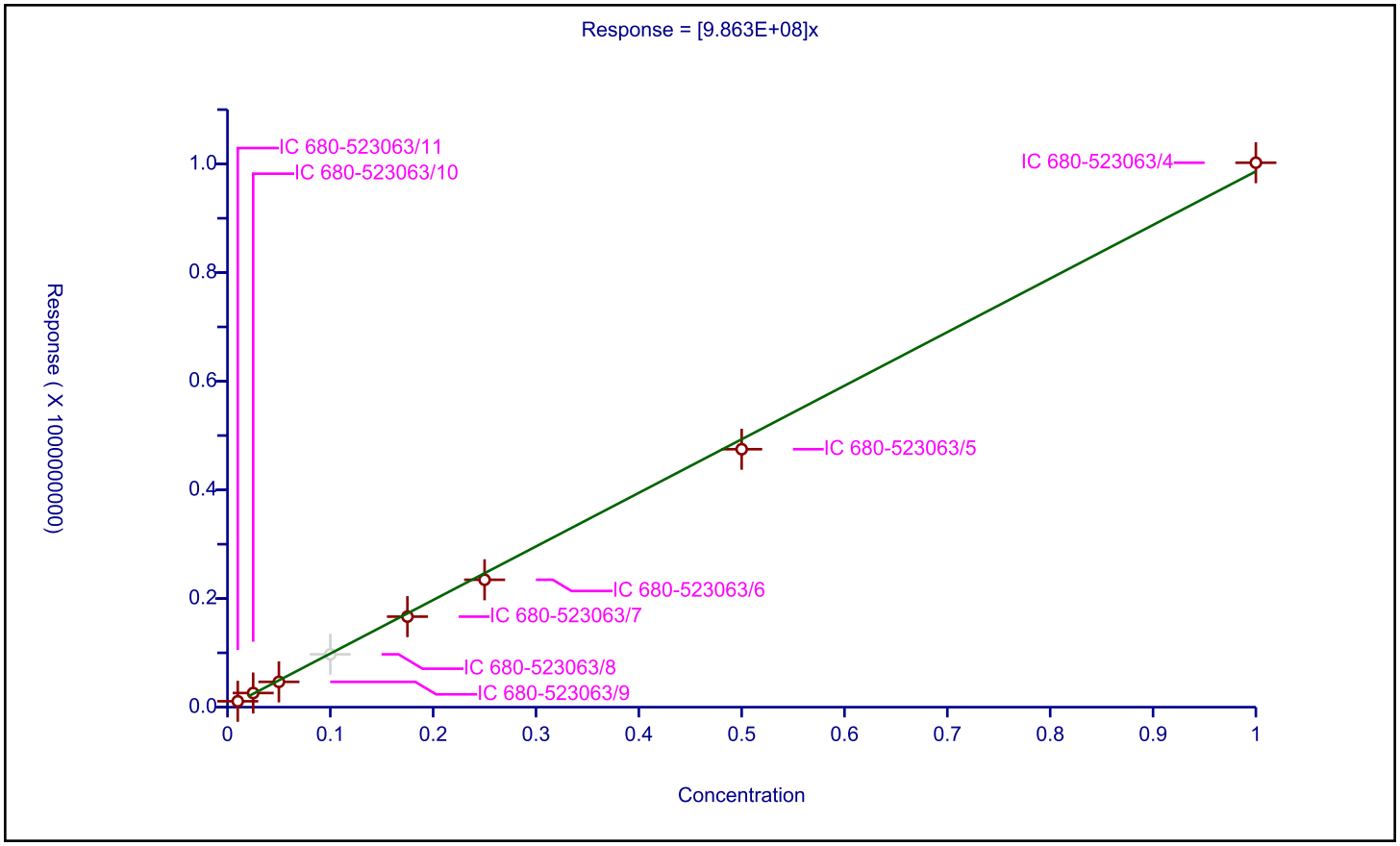
Curve Coefficients

Intercept:	0
Slope:	9.863E+08

Error Coefficients

Standard Error:	11400000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	10871976.0			1087197600.0	Y
2	IC 680-523063/10	0.025	26051520.0			1042060800.0	Y
3	IC 680-523063/9	0.05	46624287.0			932485740.0	Y
4	IC 680-523063/8	0.1	97285447.0			972854470.0	N
5	IC 680-523063/7	0.175	166644052.0			952251725.714286	Y
6	IC 680-523063/6	0.25	234527590.0			938110360.0	Y
7	IC 680-523063/5	0.5	474832365.0			949664730.0	Y
8	IC 680-523063/4	1.0	1002259721.0			1002259721.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

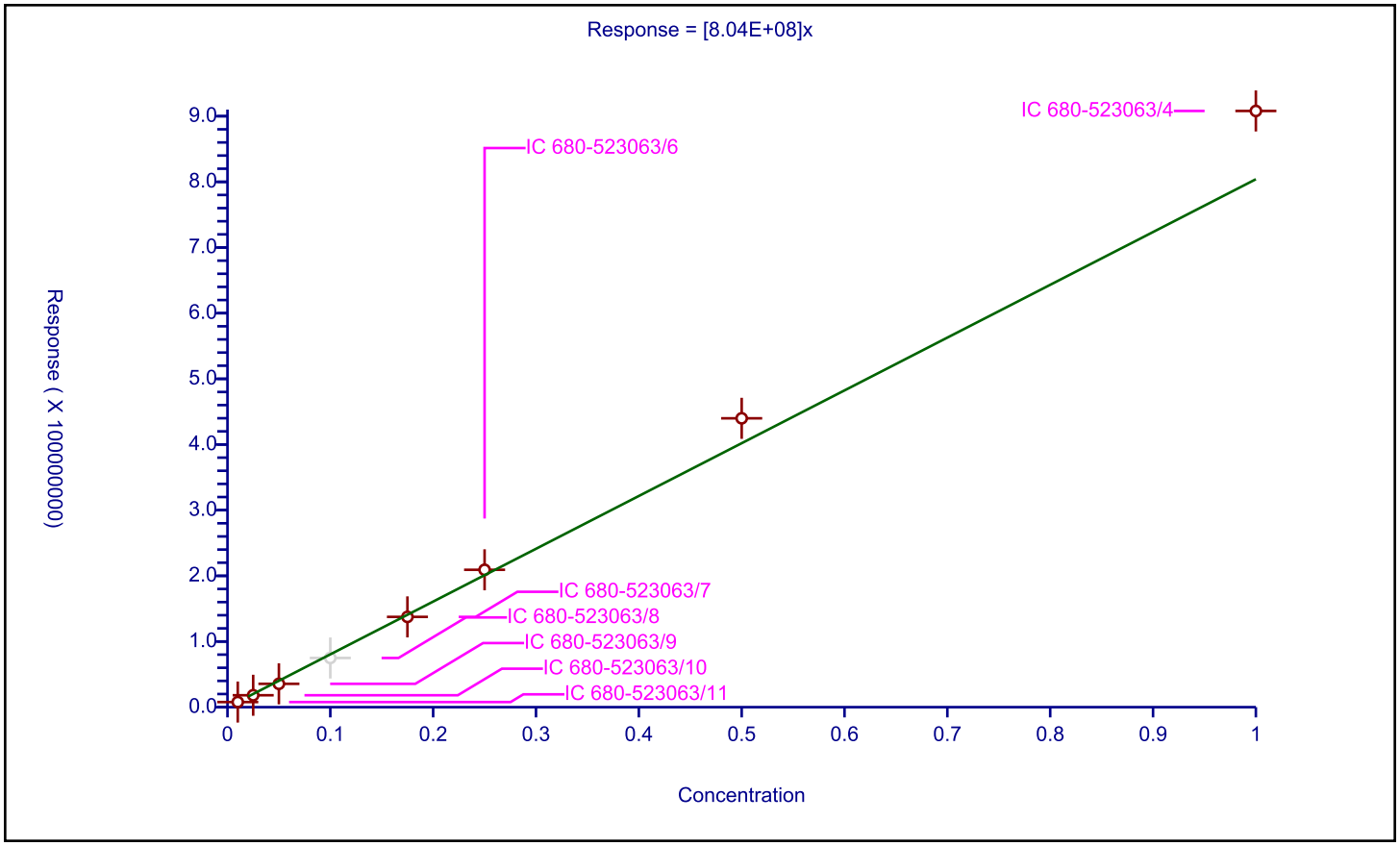
Curve Coefficients

Intercept:	0
Slope:	8.04E+08

Error Coefficients

Standard Error:	45400000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	7803979.0			780397900.0	Y
2	IC 680-523063/10	0.025	18151512.0			726060480.0	Y
3	IC 680-523063/9	0.05	35565067.0			711301340.0	Y
4	IC 680-523063/8	0.1	74902105.0			749021050.0	N
5	IC 680-523063/7	0.175	137471207.0			785549754.285714	Y
6	IC 680-523063/6	0.25	209189101.0			836756404.0	Y
7	IC 680-523063/5	0.5	439887803.0			879775606.0	Y
8	IC 680-523063/4	1.0	907942100.0			907942100.0	Y



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

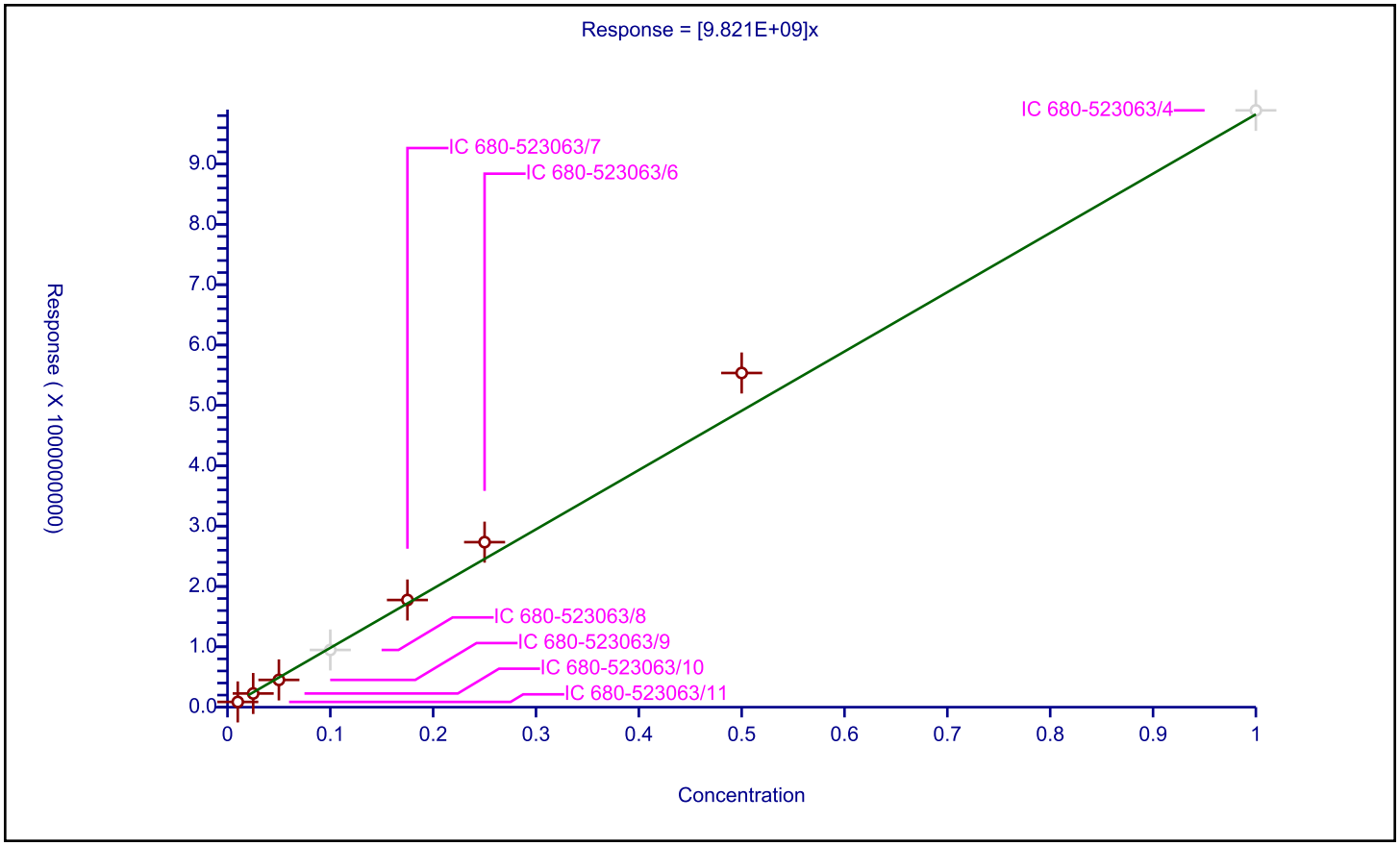
Curve Coefficients

Intercept:	0
Slope:	9.821E+09

Error Coefficients

Standard Error:	308000000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	86672796.0			8667279600.0	Y
2	IC 680-523063/10	0.025	226645361.0			9065814440.0	Y
3	IC 680-523063/9	0.05	451881325.0			9037626500.0	Y
4	IC 680-523063/8	0.1	947740711.0			9477407110.0	N
5	IC 680-523063/7	0.175	1775677219.0			10146726965.7143	Y
6	IC 680-523063/6	0.25	2733977251.0			10935909004.0	Y
7	IC 680-523063/5	0.5	5536696155.0			11073392310.0	Y
8	IC 680-523063/4	1.0	9887348056.0			9887348056.0	N



Calibration / Picloram

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

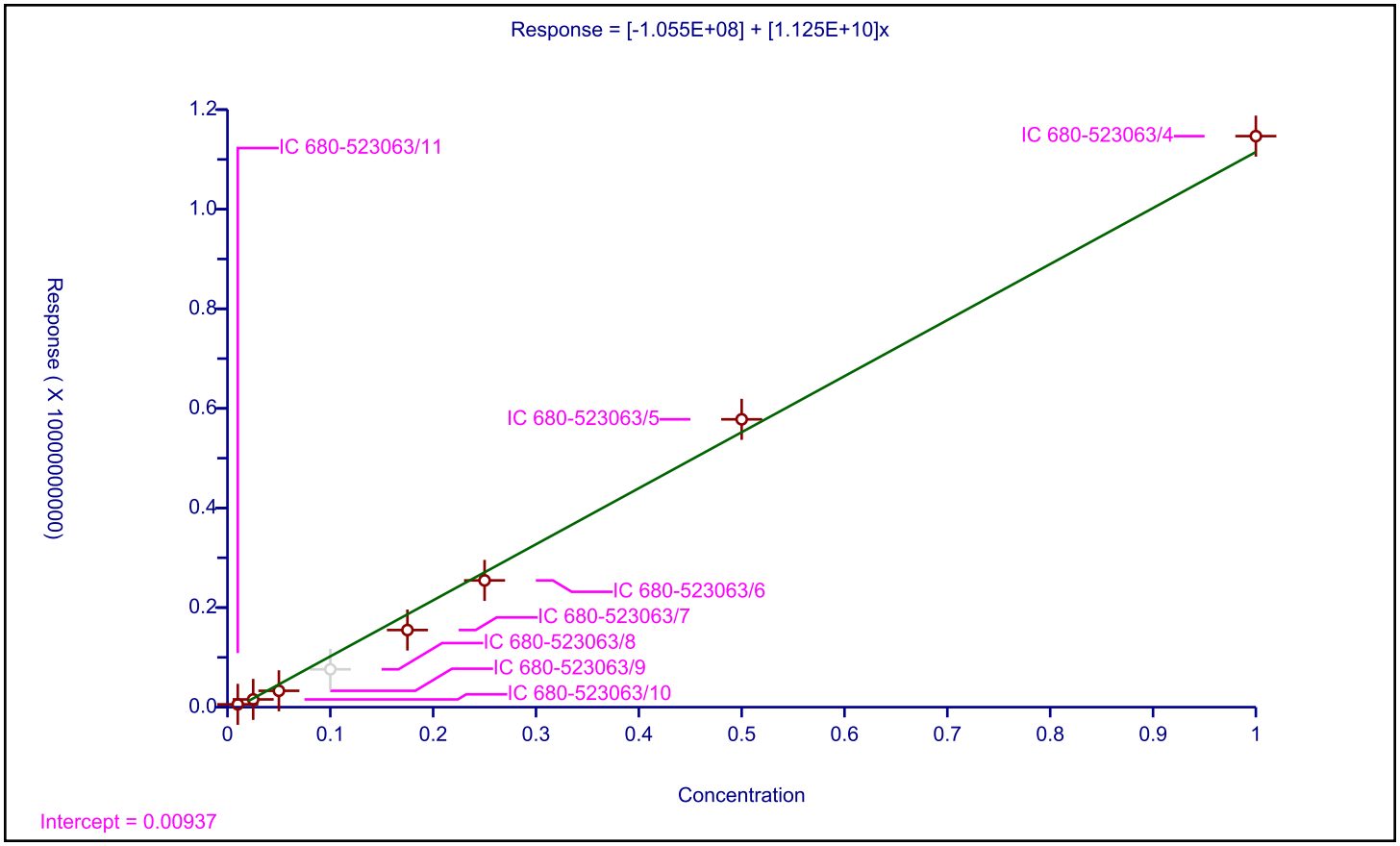
Curve Coefficients

Intercept:	-1.055E+08
Slope:	1.125E+10

Error Coefficients

Standard Error:	250000000
Relative Standard Error:	24.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	57128370.0			5712837000.0	Y
2	IC 680-523063/10	0.025	155603121.0			6224124840.0	Y
3	IC 680-523063/9	0.05	328532437.0			6570648740.0	Y
4	IC 680-523063/8	0.1	759779337.0			7597793370.0	N
5	IC 680-523063/7	0.175	1548770490.0			8850117085.71429	Y
6	IC 680-523063/6	0.25	2545447676.0			10181790704.0	Y
7	IC 680-523063/5	0.5	5780160796.0			11560321592.0	Y
8	IC 680-523063/4	1.0	11467491007.0			11467491007.0	Y



Calibration / Acifluorfen

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

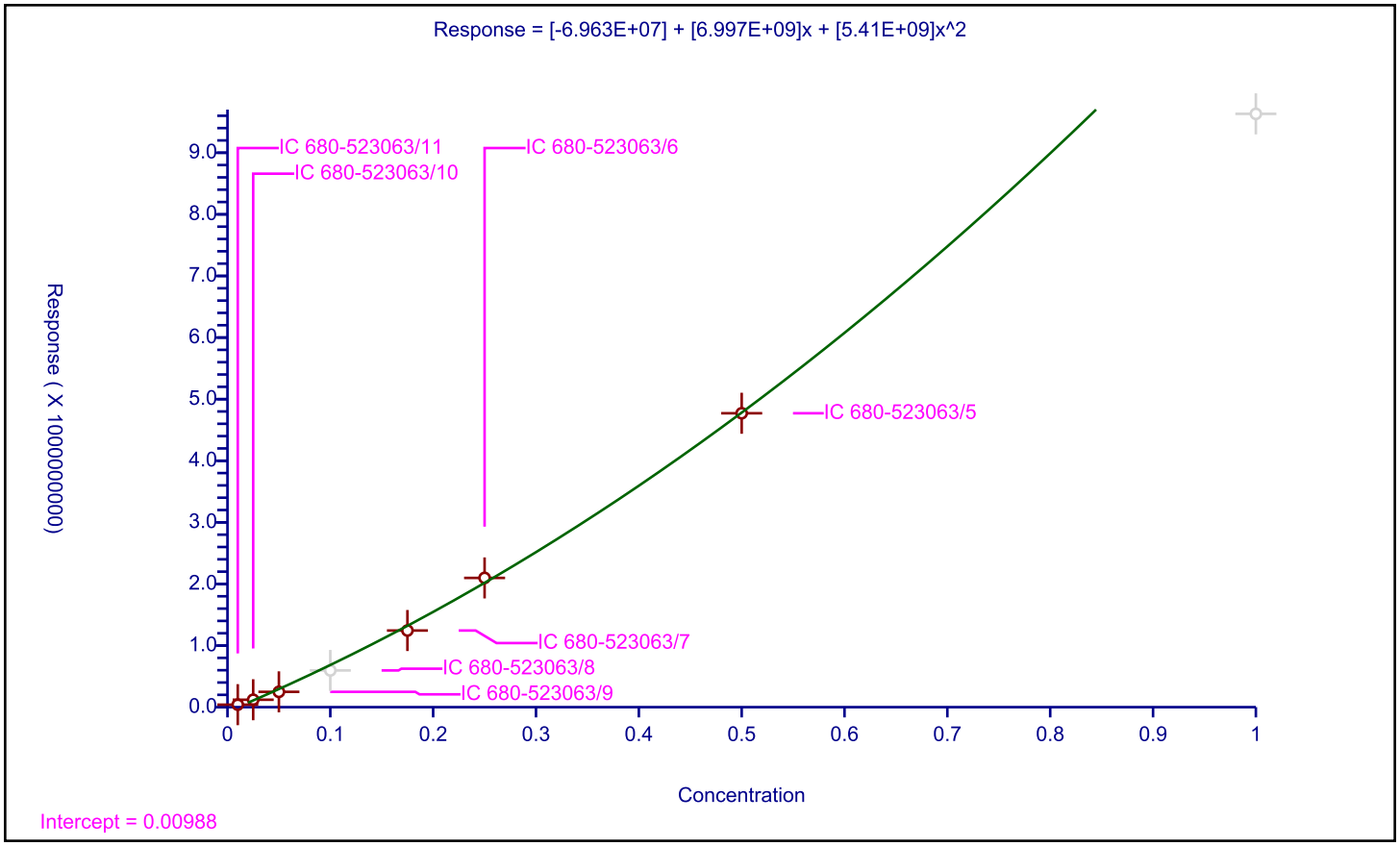
Curve Coefficients

Intercept:	-6.963E+07
Slope:	6.997E+09
Second Order:	5.41E+09

Error Coefficients

Standard Error:	73400000
Relative Standard Error:	33.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	40645245.0			4064524500.0	Y
2	IC 680-523063/10	0.025	120359495.0			4814379800.0	Y
3	IC 680-523063/9	0.05	248586919.0			4971738380.0	Y
4	IC 680-523063/8	0.1	596281084.0			5962810840.0	N
5	IC 680-523063/7	0.175	1244184045.0			7109623114.28572	Y
6	IC 680-523063/6	0.25	2098074459.0			8392297836.0	Y
7	IC 680-523063/5	0.5	4770908516.0			9541817032.0	Y
8	IC 680-523063/4	1.0	9631196972.0			9631196972.0	N



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	524076394	501665051		0.168	0.175	-4.3	20.0
3,5-Dichlorobenzoic acid	Ave	321415612	314763497		0.171	0.175	-2.1	20.0
4-Nitrophenol	Ave	92458216	102031594		0.193	0.175	10.4	20.0
Dicamba	Ave	1077009527	1054404651		0.0857	0.0875	-2.1	20.0
MCPP	Qua		498721		16.5	17.5	-6.0	20.0
MCPA	Ave	925968	1023116		19.3	17.5	10.5	20.0
Dichlorprop	Ave	277497963	279363520		0.176	0.175	0.7	20.0
2,4-D	Ave	302399622	313230406		0.181	0.175	3.6	20.0
Pentachlorophenol	Ave	5383895550	5465498149		0.0444	0.0438	1.5	20.0
Silvex (2,4,5-TP)	Ave	1878728542	1967042629		0.0458	0.0438	4.7	20.0
Chloramben	Qua		1552941966		0.167	0.175	-4.7	20.0
2,4,5-T	Ave	2193840481	2185537531		0.0436	0.0438	-0.4	20.0
2,4-DB	Qua		156523029		0.167	0.175	-4.5	20.0
Dinoseb	Ave	1223895982	1139844429		0.163	0.175	-6.9	20.0
Bentazon	Ave	287551968	283273971		0.172	0.175	-1.5	20.0
Picloram	Qua		2479981994		0.168	0.175	-3.8	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	3293157561	3248557994		0.173	0.175	-1.4	20.0
Acifluorfen	Qua		2226762514		0.162	0.175	-7.2	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	211477985	202049760		0.167	0.175	-4.5	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.58	2.56	2.60
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.25	6.24	6.26
Dicamba	6.72	6.71	6.73
MCPP	6.87	6.86	6.88
MCPA	7.00	6.98	7.00
Dichlorprop	7.18	7.17	7.19
2,4-D	7.32	7.32	7.34
Pentachlorophenol	7.67	7.66	7.68
Silvex (2,4,5-TP)	7.77	7.76	7.78
Chloramben	7.85	7.85	7.87
2,4,5-T	7.93	7.92	7.94
2,4-DB	8.17	8.17	8.19
Dinoseb	8.22	8.21	8.23
Bentazon	8.30	8.29	8.31
Picloram	8.53	8.52	8.54
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	8.61	8.63
Acifluorfen	9.67	9.66	9.68
2,4-Dichlorophenylacetic acid (Surr)	6.68	6.67	6.69

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 14:35:04 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:27:14 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:12:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	87791384	0.1750	0.1675	
2	2.634	2.632	0.002	268322043	0.1750	0.1665	
						RPD = 0.62	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16860262	NC	NC	
2	5.102	5.102	0.000	93176385	NC	NC	
						RPD = 0.02	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	215525699	NC	NC	
2	5.777	5.776	0.001	930949918	NC	NC	
						RPD = 0.64	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	55083612	0.1750	0.1714	
2	6.116	6.116	0.000	304054087	0.1750	0.1692	
						RPD = 1.28	
5 4-Nitrophenol							M
1	6.251	6.253	-0.002	17855529	0.1750	0.1931	
2	6.505	6.505	0.000	52975624	0.1750	0.1772	M
						RPD = 8.62	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.683	6.683	0.000	35358708	0.1750	0.1672	
2	6.830	6.829	0.001	240517141	0.1750	0.1709	M
						RPD = 2.16	
7 Dicamba							M
1	6.721	6.720	0.001	92260407	0.0875	0.0857	
2	6.912	6.910	0.002	438385412	0.0875	0.0875	M
						RPD = 2.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	8727611	17.5	16.5	
2	6.956	6.955	0.001	79838277	17.5	17.4	M
						RPD = 5.73	
9 MCPA							M
1	6.995	6.994	0.001	17904527	17.5	19.3	
2	7.156	7.155	0.001	125917297	17.5	20.2	M
						RPD = 4.31	
10 Dichlorprop							M
1	7.181	7.180	0.001	48888616	0.1750	0.1762	
2	7.298	7.297	0.001	236765319	0.1750	0.1679	M
						RPD = 4.79	
11 2,4-D							M
1	7.324	7.326	-0.002	54815321	0.1750	0.1813	
2	7.516	7.517	-0.001	280829565	0.1750	0.1762	M
						RPD = 2.82	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	239115544	0.0438	0.0444	
2	7.715	7.714	0.001	861630277	0.0438	0.0458	M
						RPD = 3.10	
13 Silvex (2,4,5-TP)							M
1	7.768	7.769	-0.001	86058115	0.0438	0.0458	
2	7.847	7.846	0.001	335327121	0.0438	0.0454	M
						RPD = 0.96	
14 Chloramben							M
1	7.852	7.855	-0.003	271764844	0.1750	0.1667	
2	8.161	8.162	-0.001	1043446048	0.1750	0.1855	M
						RPD = 10.67	
15 2,4,5-T							M
1	7.926	7.929	-0.003	95617267	0.0438	0.0436	
2	8.082	8.083	-0.001	298977240	0.0438	0.0450	M
						RPD = 3.16	
16 2,4-DB							M
1	8.172	8.175	-0.003	27391530	0.1750	0.1671	
2	8.301	8.302	-0.001	175272842	0.1750	0.1777	M
						RPD = 6.18	
17 Dinoseb							M
1	8.223	8.224	-0.001	199472775	0.1750	0.1630	
2	8.249	8.248	0.001	670832472	0.1750	0.1515	M
						RPD = 7.32	
18 Bentazon							M
1	8.300	8.300	0.000	49572945	0.1750	0.1724	
2	8.664	8.662	0.002	149493508	0.1750	0.1859	M
						RPD = 7.56	
19 Picloram							M
1	8.526	8.529	-0.003	433996849	0.1750	0.1684	
2	9.008	9.005	0.003	1596868377	0.1750	0.1513	M
						RPD = 10.72	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	568497649	0.1750	0.1726	
2	8.779	8.775	0.004	1822835497	0.1750	0.1856	M
						RPD = 7.24	
21 Acifluorfen							M
1	9.666	9.666	0.000	389683440	0.1750	0.1624	
2	9.796	9.792	0.004	1189239771	0.1750	0.1601	M
						RPD = 1.40	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

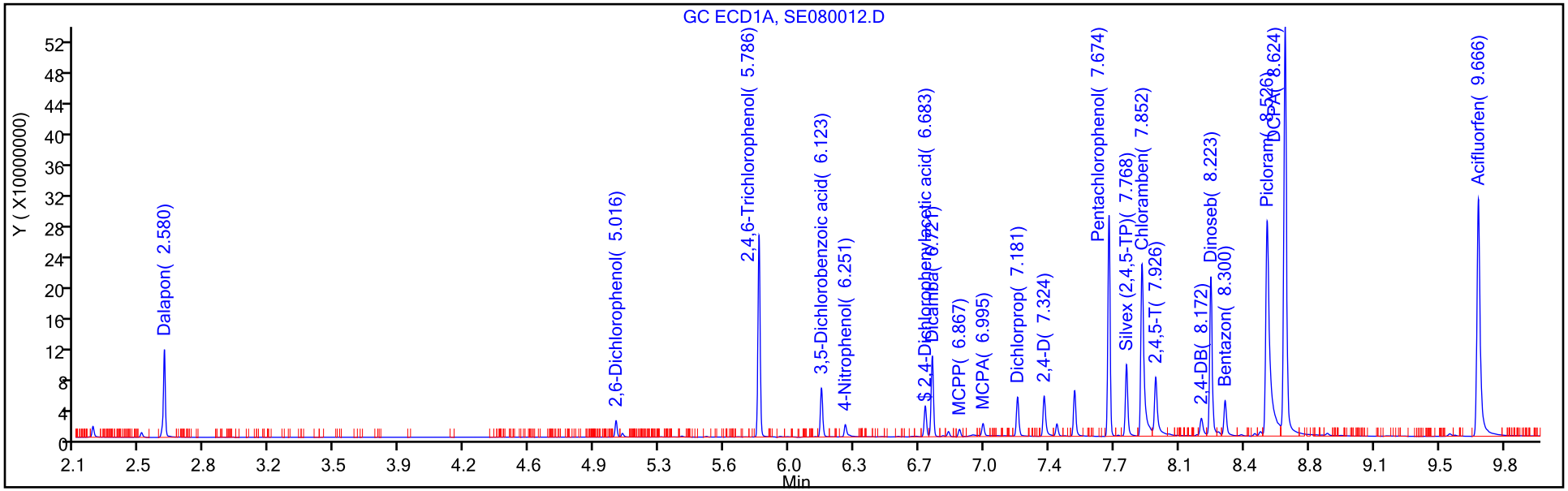
Report Date: 08-May-2018 16:27:17 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

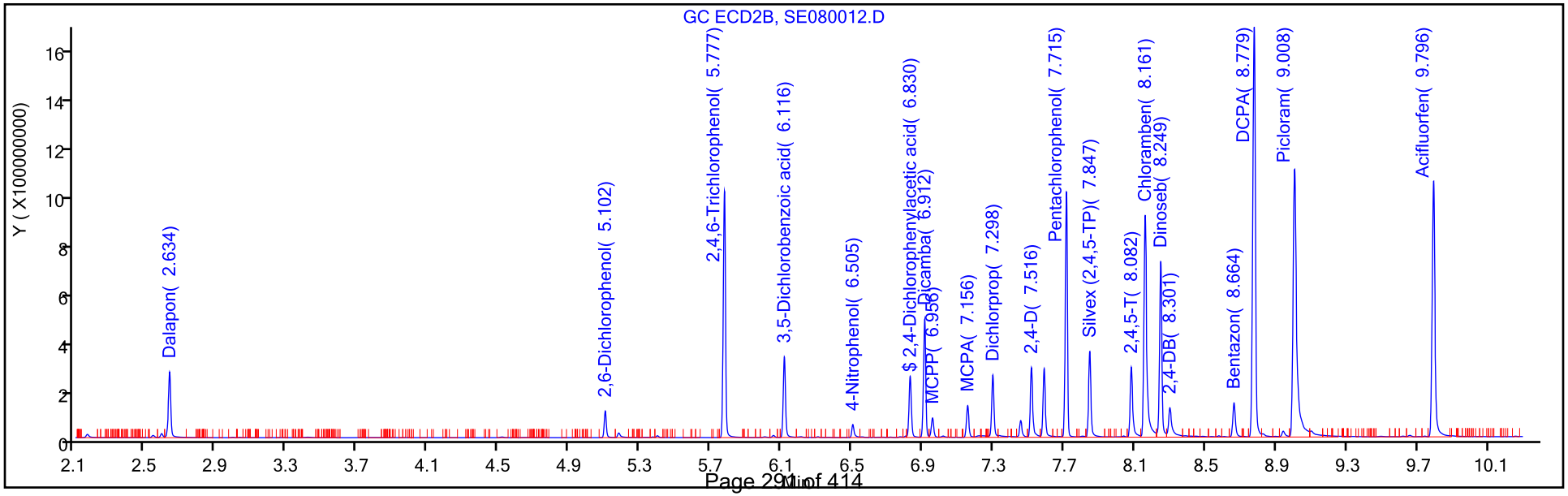
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	icv herb			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1611774466	1533268817		0.166	0.175	-4.9	20.0
3,5-Dichlorobenzoic acid	Ave	1796964783	1737451926		0.169	0.175	-3.3	20.0
4-Nitrophenol	Ave	299039718	302717851		0.177	0.175	1.2	20.0
Dicamba	Ave	5009061262	5010118994		0.0875	0.0875	0.0	20.0
MCPP	Lin2		4562187		17.4	17.5	-0.4	20.0
MCPA	QuaF		7195274		20.2	17.5	15.4	20.0
Dichlorprop	Ave	1409813393	1352944680		0.168	0.175	-4.0	20.0
2,4-D	Ave	1593535987	1604740371		0.176	0.175	0.7	20.0
Pentachlorophenol	Ave	18808678996	19694406331		0.0458	0.0438	4.7	20.0
Silvex (2,4,5-TP)	Ave	7391322149	7664619909		0.0454	0.0438	3.7	20.0
2,4,5-T	Ave	6646535168	6833765486		0.0450	0.0438	2.8	20.0
Chloramben	Ave	5625509945	5962548846		0.185	0.175	6.0	20.0
Dinoseb	Lin1		3833328411		0.151	0.175	-13.4	20.0
2,4-DB	Ave	986290097	1001559097		0.178	0.175	1.5	20.0
Bentazon	Ave	803969083	854248617		0.186	0.175	6.3	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	9821124803	10416202840		0.186	0.175	6.1	20.0
Picloram	Lin1		9124962154		0.151	0.175	-13.6	20.0
Acifluorfen	Qua		6795655834		0.160	0.175	-8.5	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1407755771	1374383663		0.171	0.175	-2.4	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.63	2.61	2.65
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.51	6.50	6.52
Dicamba	6.91	6.90	6.92
MCPP	6.96	6.95	6.97
MCPA	7.16	7.15	7.17
Dichlorprop	7.30	7.29	7.31
2,4-D	7.52	7.51	7.53
Pentachlorophenol	7.72	7.70	7.72
Silvex (2,4,5-TP)	7.85	7.84	7.86
2,4,5-T	8.08	8.07	8.09
Chloramben	8.16	8.15	8.17
Dinoseb	8.25	8.24	8.26
2,4-DB	8.30	8.29	8.31
Bentazon	8.66	8.65	8.67
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	8.77	8.79
Picloram	9.01	9.00	9.02
Acifluorfen	9.80	9.78	9.80
2,4-Dichlorophenylacetic acid (Surr)	6.83	6.82	6.84

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 14:35:04 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:27:14 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:12:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	87791384	0.1750	0.1675	
2	2.634	2.632	0.002	268322043	0.1750	0.1665	
						RPD = 0.62	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16860262	NC	NC	
2	5.102	5.102	0.000	93176385	NC	NC	
						RPD = 0.02	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	215525699	NC	NC	
2	5.777	5.776	0.001	930949918	NC	NC	
						RPD = 0.64	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	55083612	0.1750	0.1714	
2	6.116	6.116	0.000	304054087	0.1750	0.1692	
						RPD = 1.28	
5 4-Nitrophenol							M
1	6.251	6.253	-0.002	17855529	0.1750	0.1931	
2	6.505	6.505	0.000	52975624	0.1750	0.1772	M
						RPD = 8.62	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.683	6.683	0.000	35358708	0.1750	0.1672	
2	6.830	6.829	0.001	240517141	0.1750	0.1709	M
						RPD = 2.16	
7 Dicamba							M
1	6.721	6.720	0.001	92260407	0.0875	0.0857	
2	6.912	6.910	0.002	438385412	0.0875	0.0875	M
						RPD = 2.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	8727611	17.5	16.5	
2	6.956	6.955	0.001	79838277	17.5	17.4	M
						RPD = 5.73	
9 MCPA							M
1	6.995	6.994	0.001	17904527	17.5	19.3	
2	7.156	7.155	0.001	125917297	17.5	20.2	M
						RPD = 4.31	
10 Dichlorprop							M
1	7.181	7.180	0.001	48888616	0.1750	0.1762	
2	7.298	7.297	0.001	236765319	0.1750	0.1679	M
						RPD = 4.79	
11 2,4-D							M
1	7.324	7.326	-0.002	54815321	0.1750	0.1813	
2	7.516	7.517	-0.001	280829565	0.1750	0.1762	M
						RPD = 2.82	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	239115544	0.0438	0.0444	
2	7.715	7.714	0.001	861630277	0.0438	0.0458	M
						RPD = 3.10	
13 Silvex (2,4,5-TP)							M
1	7.768	7.769	-0.001	86058115	0.0438	0.0458	
2	7.847	7.846	0.001	335327121	0.0438	0.0454	M
						RPD = 0.96	
14 Chloramben							M
1	7.852	7.855	-0.003	271764844	0.1750	0.1667	
2	8.161	8.162	-0.001	1043446048	0.1750	0.1855	M
						RPD = 10.67	
15 2,4,5-T							M
1	7.926	7.929	-0.003	95617267	0.0438	0.0436	
2	8.082	8.083	-0.001	298977240	0.0438	0.0450	M
						RPD = 3.16	
16 2,4-DB							M
1	8.172	8.175	-0.003	27391530	0.1750	0.1671	
2	8.301	8.302	-0.001	175272842	0.1750	0.1777	M
						RPD = 6.18	
17 Dinoseb							M
1	8.223	8.224	-0.001	199472775	0.1750	0.1630	
2	8.249	8.248	0.001	670832472	0.1750	0.1515	M
						RPD = 7.32	
18 Bentazon							M
1	8.300	8.300	0.000	49572945	0.1750	0.1724	
2	8.664	8.662	0.002	149493508	0.1750	0.1859	M
						RPD = 7.56	
19 Picloram							M
1	8.526	8.529	-0.003	433996849	0.1750	0.1684	
2	9.008	9.005	0.003	1596868377	0.1750	0.1513	M
						RPD = 10.72	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	568497649	0.1750	0.1726	
2	8.779	8.775	0.004	1822835497	0.1750	0.1856	M
						RPD = 7.24	
21 Acifluorfen							M
1	9.666	9.666	0.000	389683440	0.1750	0.1624	
2	9.796	9.792	0.004	1189239771	0.1750	0.1601	M
						RPD = 1.40	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

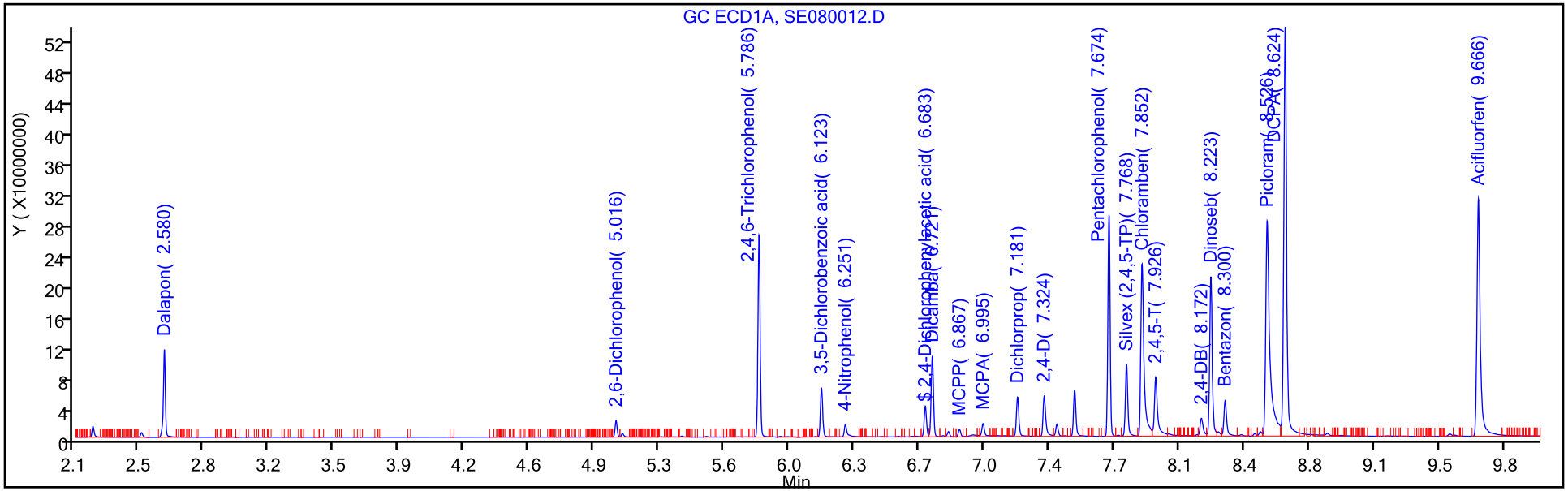
Report Date: 08-May-2018 16:27:17 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

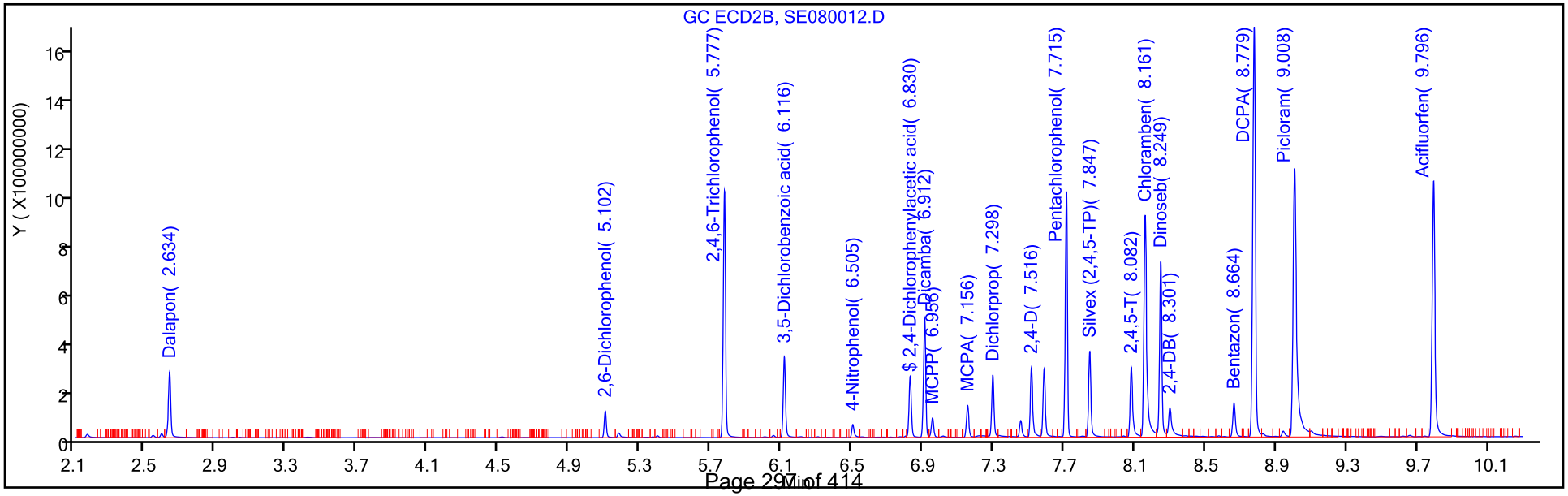
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	icv herb			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

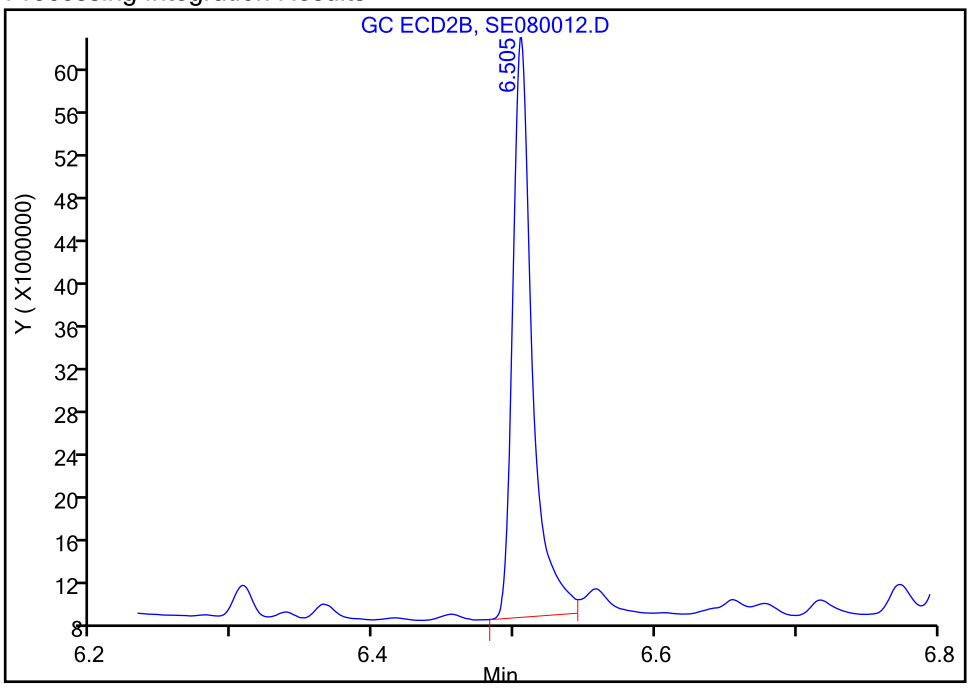
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

5 4-Nitrophenol, CAS: 100-02-7

Signal: 2

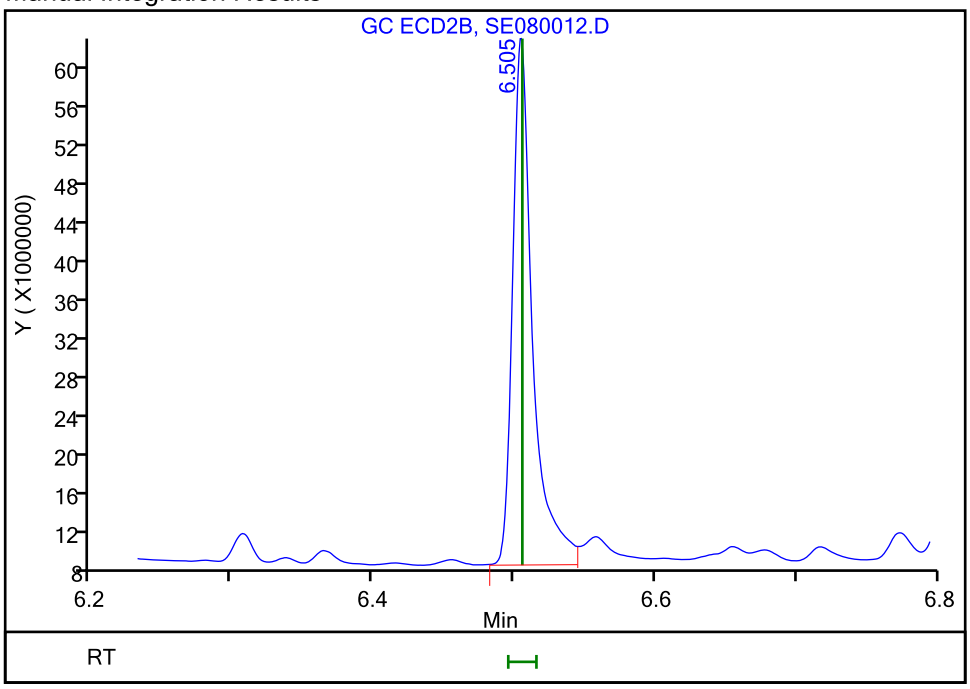
Processing Integration Results

RT: 6.50
Area: 51736440
Amount: 0.174290
Amount Units: ug/ml



Manual Integration Results

RT: 6.50
Area: 52975624
Amount: 0.177152
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

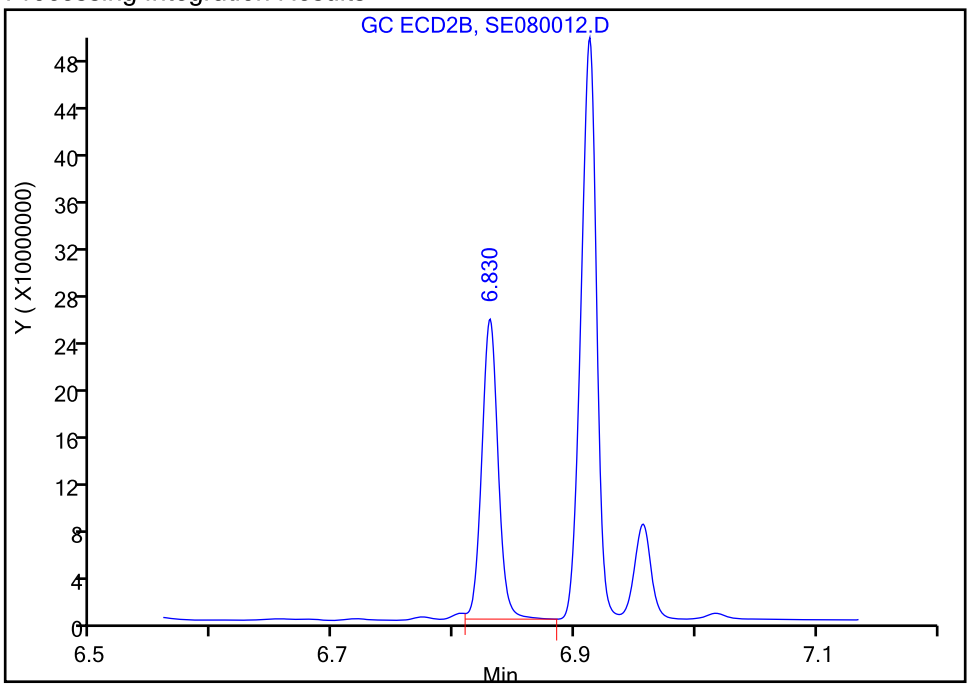
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

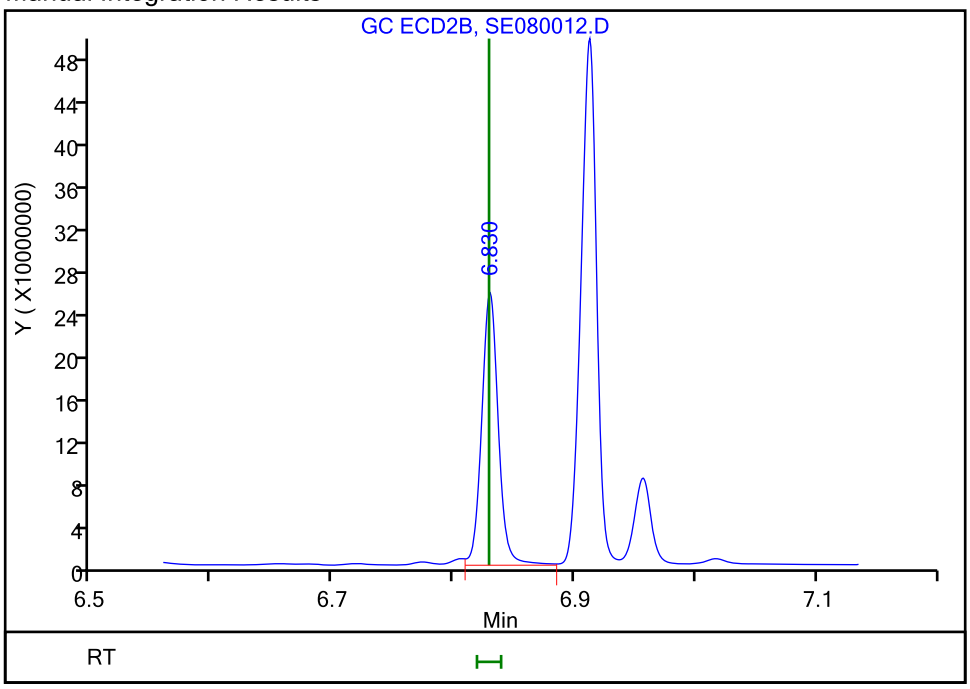
Processing Integration Results

RT: 6.83
Area: 235256676
Amount: 0.169230
Amount Units: ug/ml



Manual Integration Results

RT: 6.83
Area: 240517141
Amount: 0.170851
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

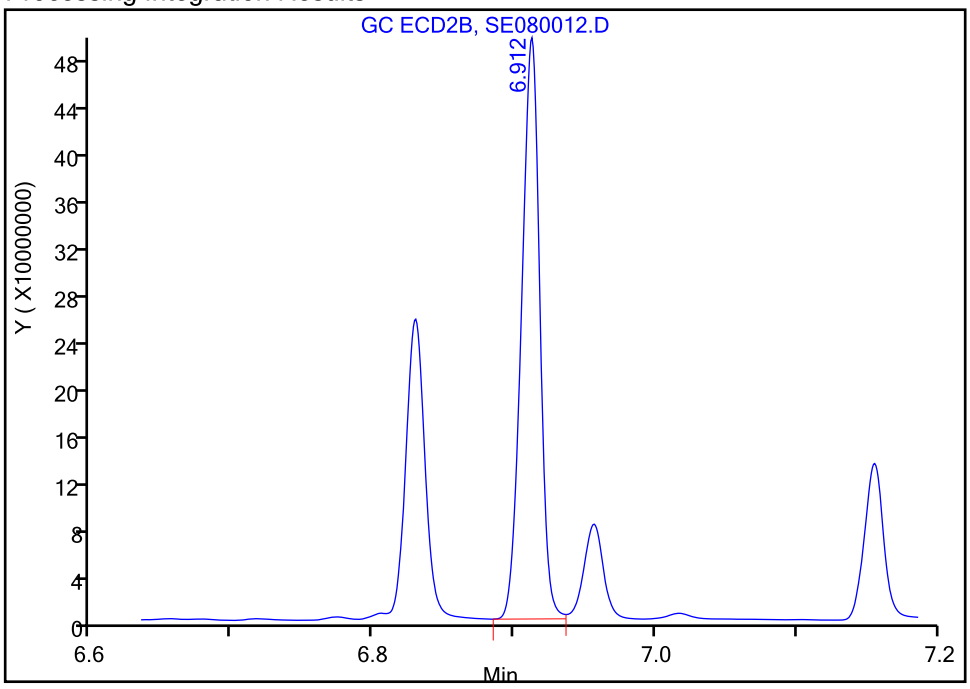
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

7 Dicamba, CAS: 1918-00-9

Signal: 2

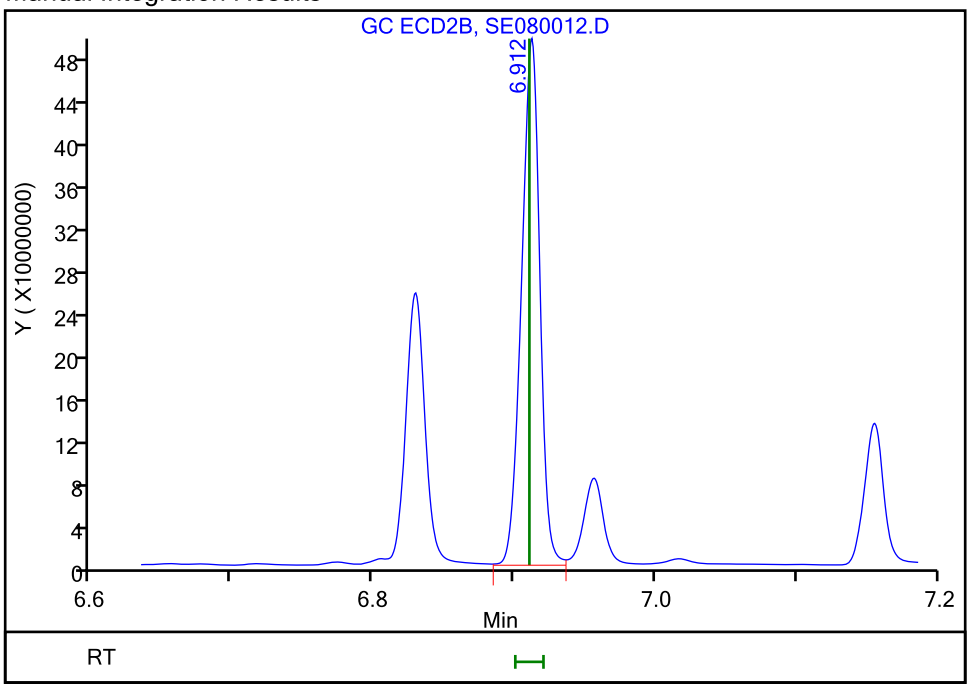
Processing Integration Results

RT: 6.91
Area: 434653021
Amount: 0.087708
Amount Units: ug/ml



Manual Integration Results

RT: 6.91
Area: 438385412
Amount: 0.087518
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

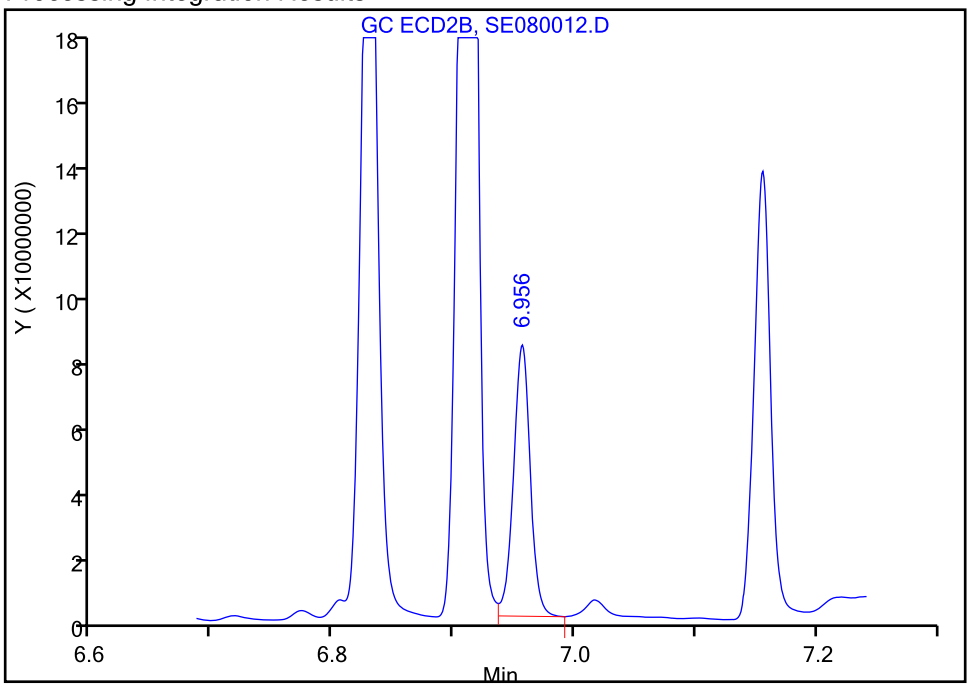
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

8 MCPP, CAS: 93-65-2

Signal: 2

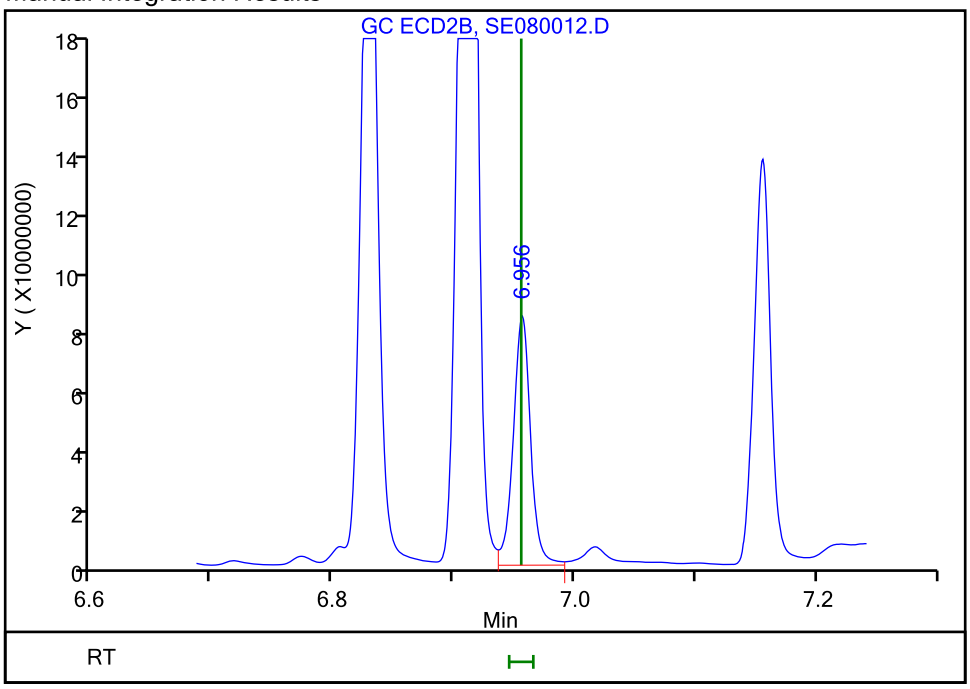
Processing Integration Results

RT: 6.96
Area: 75934344
Amount: 16.692681
Amount Units: ug/ml



Manual Integration Results

RT: 6.96
Area: 79838277
Amount: 17.422724
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

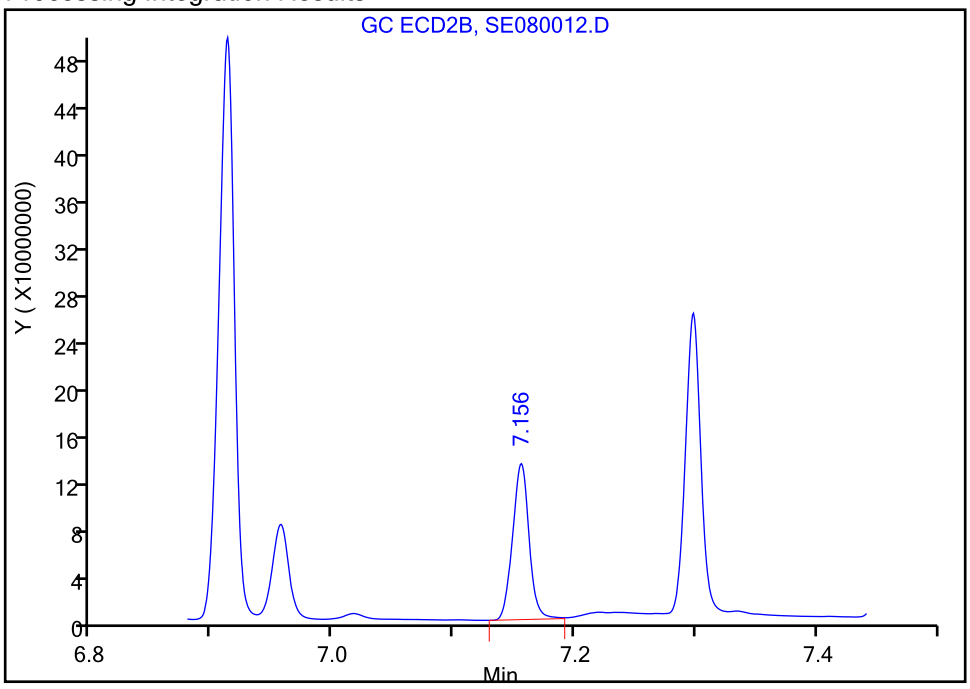
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

9 MCPA, CAS: 94-74-6

Signal: 2

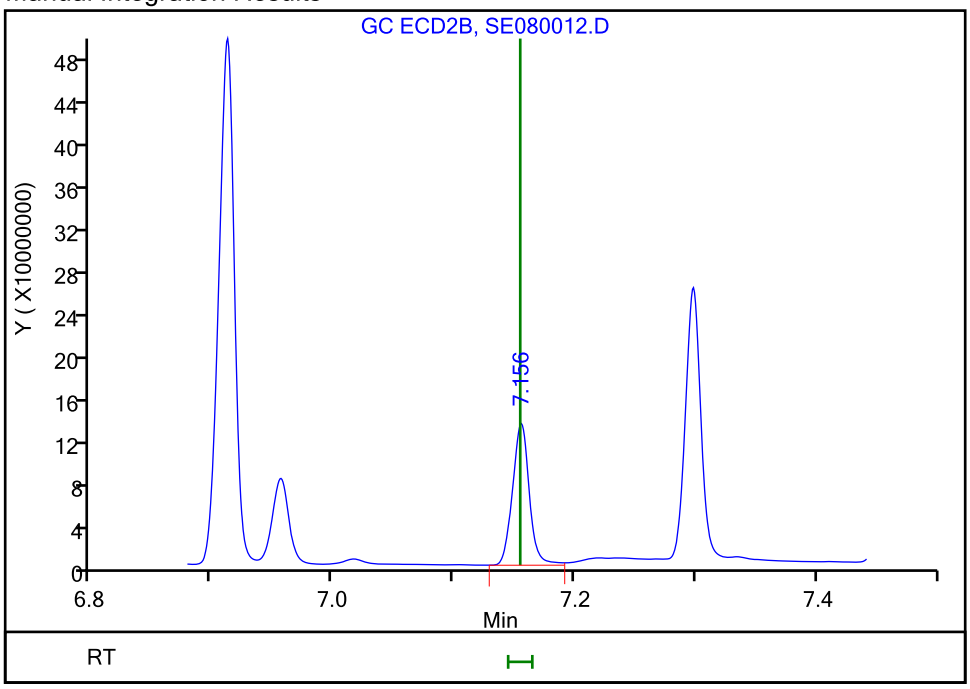
Processing Integration Results

RT: 7.16
Area: 123031336
Amount: 19.557220
Amount Units: ug/ml



Manual Integration Results

RT: 7.16
Area: 125917297
Amount: 20.188282
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

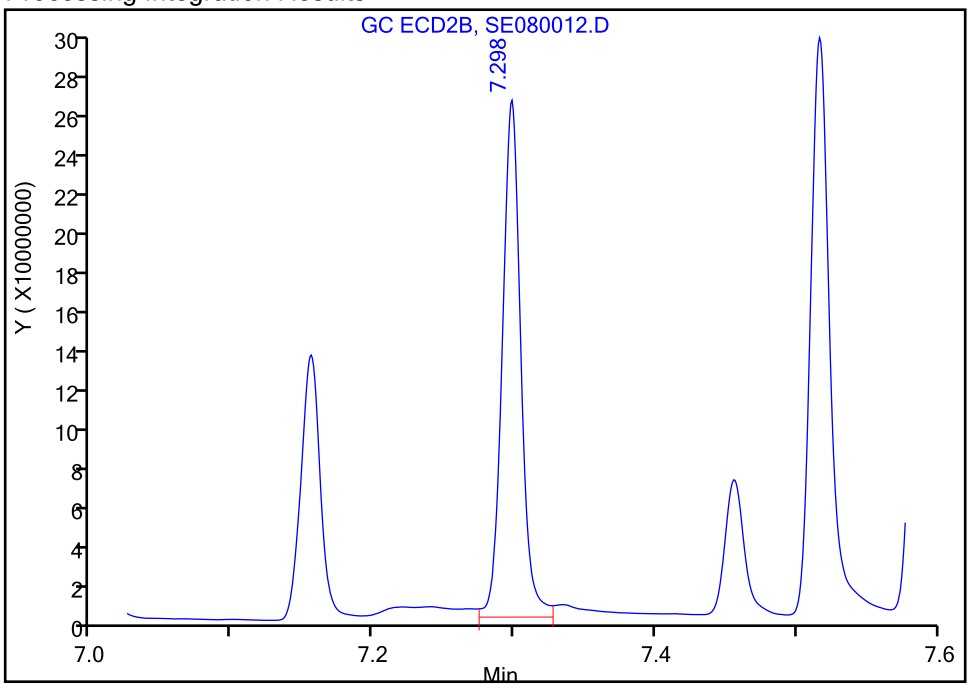
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

10 Dichlorprop, CAS: 120-36-5

Signal: 2

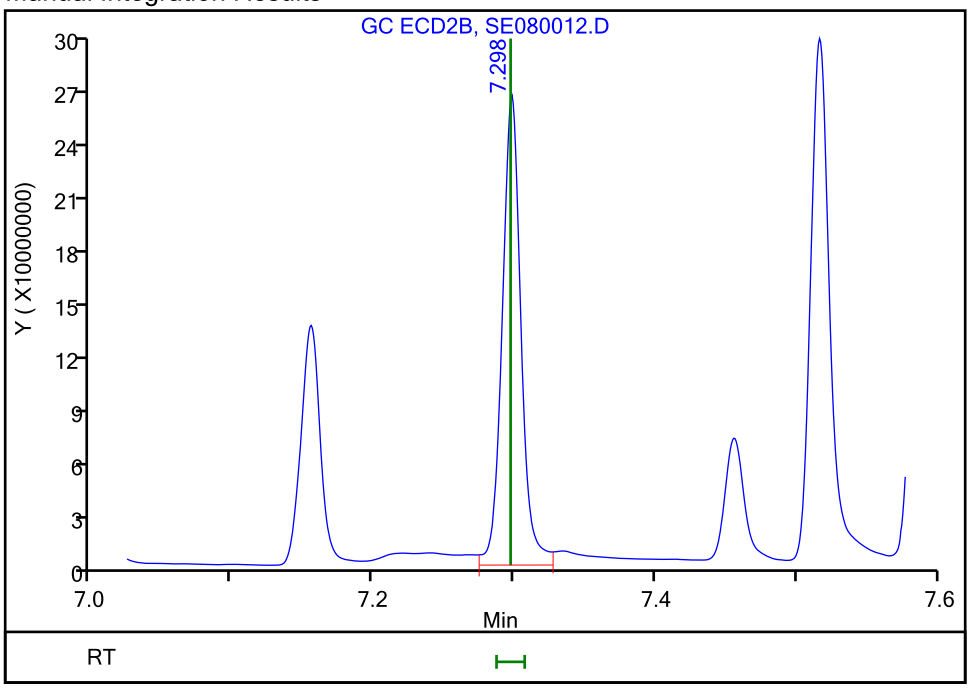
Processing Integration Results

RT: 7.30
Area: 232007263
Amount: 0.166467
Amount Units: ug/ml



Manual Integration Results

RT: 7.30
Area: 236765319
Amount: 0.167941
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

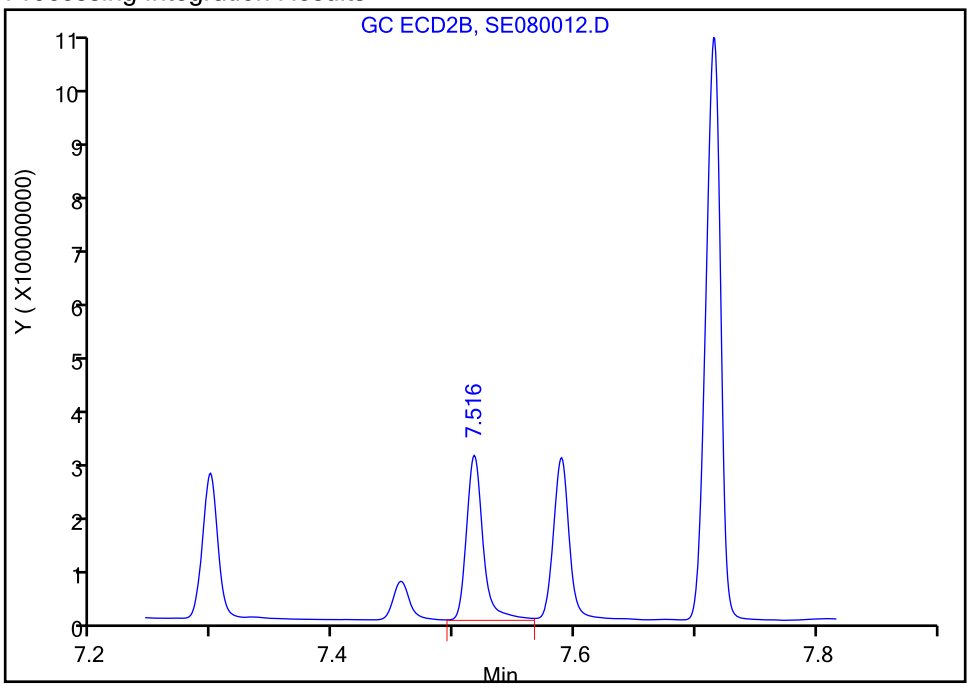
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

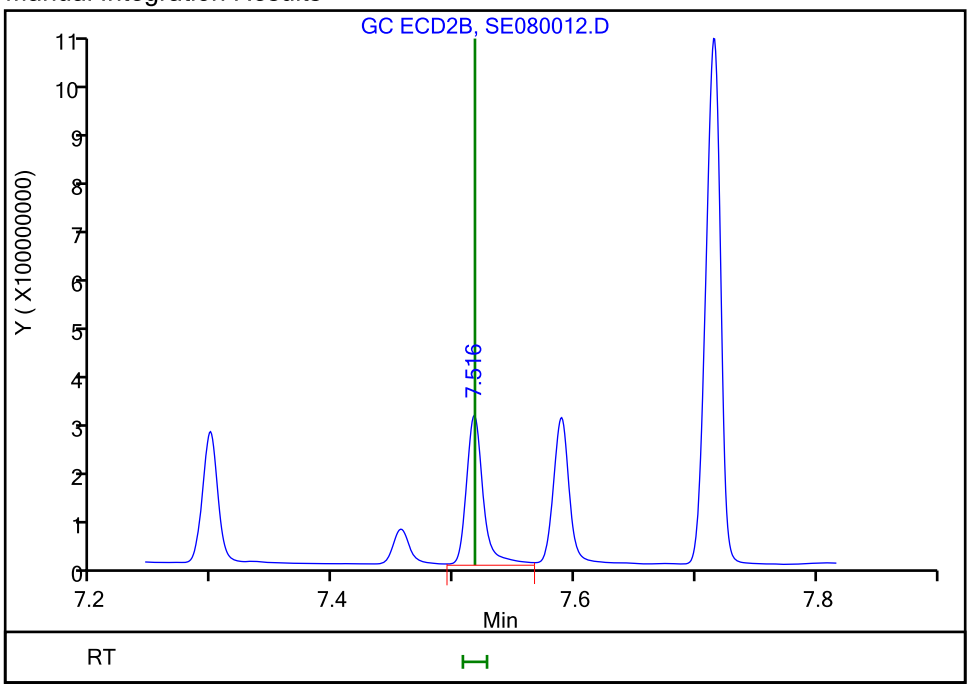
Processing Integration Results

RT: 7.52
Area: 273831818
Amount: 0.173743
Amount Units: ug/ml



Manual Integration Results

RT: 7.52
Area: 280829565
Amount: 0.176230
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

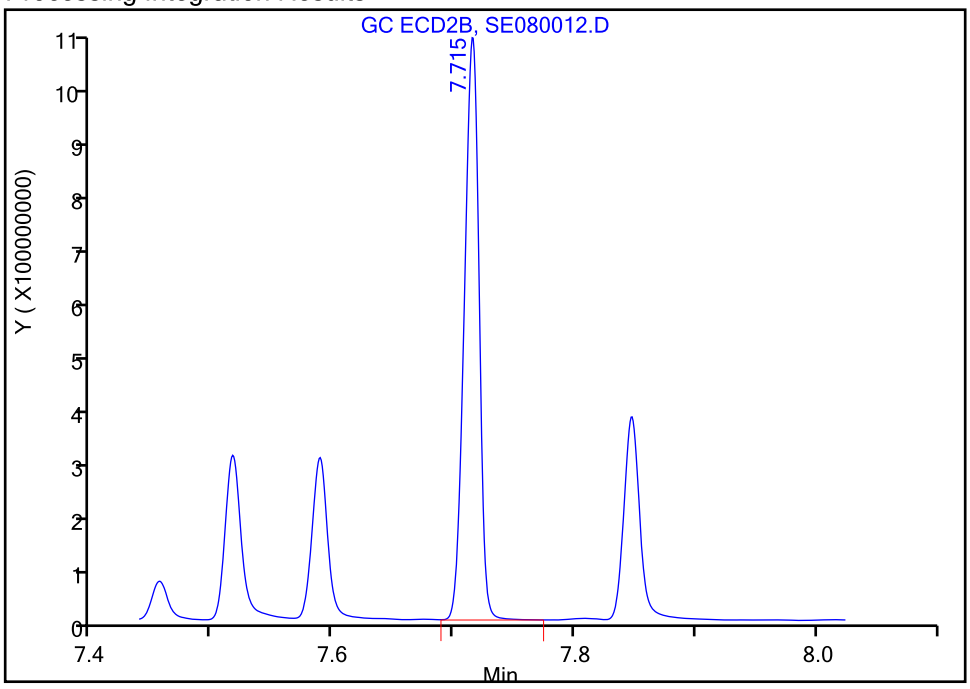
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

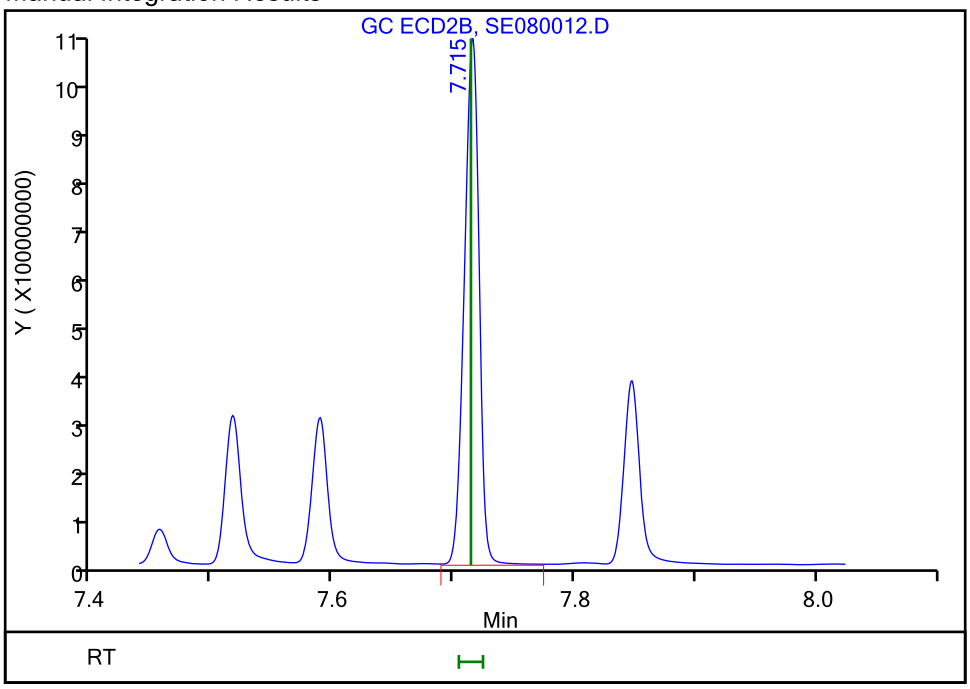
Processing Integration Results

RT: 7.71
Area: 852692667
Amount: 0.045595
Amount Units: ug/ml



Manual Integration Results

RT: 7.71
Area: 861630277
Amount: 0.045810
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

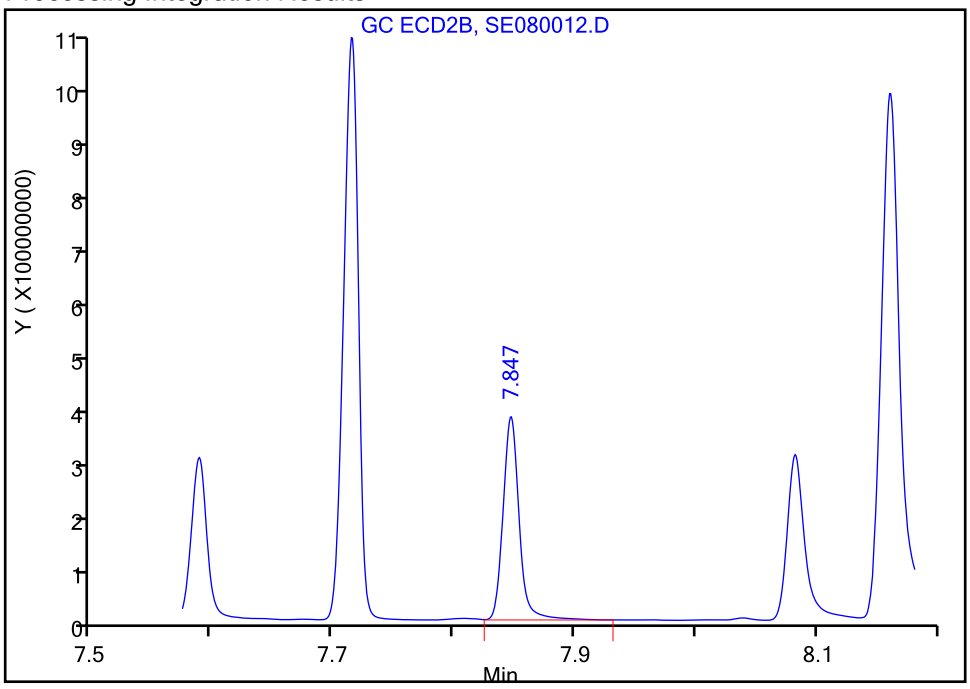
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

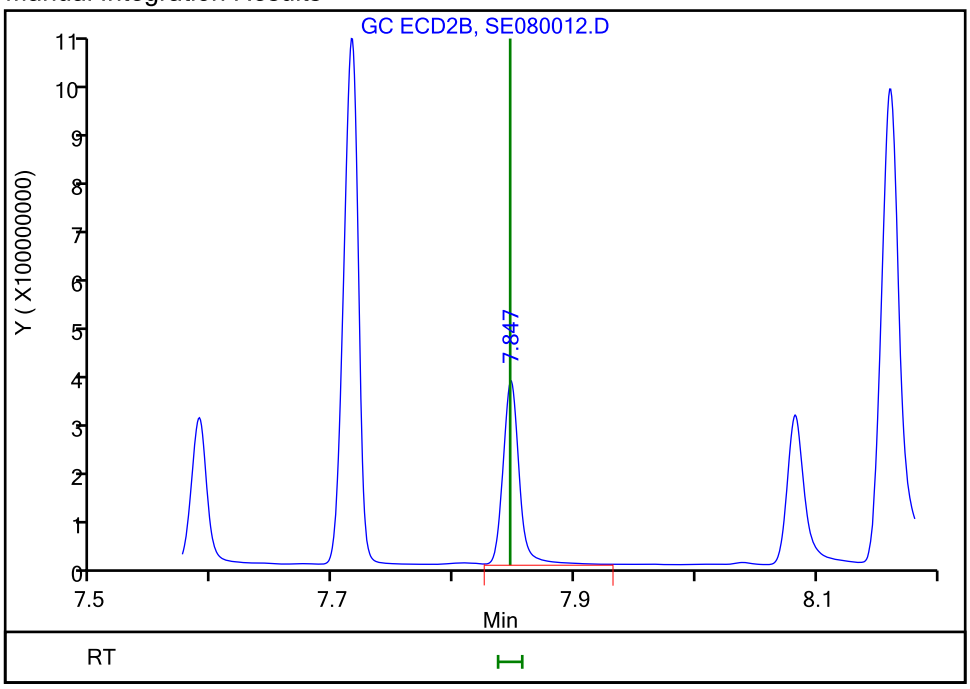
Processing Integration Results

RT: 7.85
Area: 324462017
Amount: 0.044325
Amount Units: ug/ml



Manual Integration Results

RT: 7.85
Area: 335327121
Amount: 0.045368
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

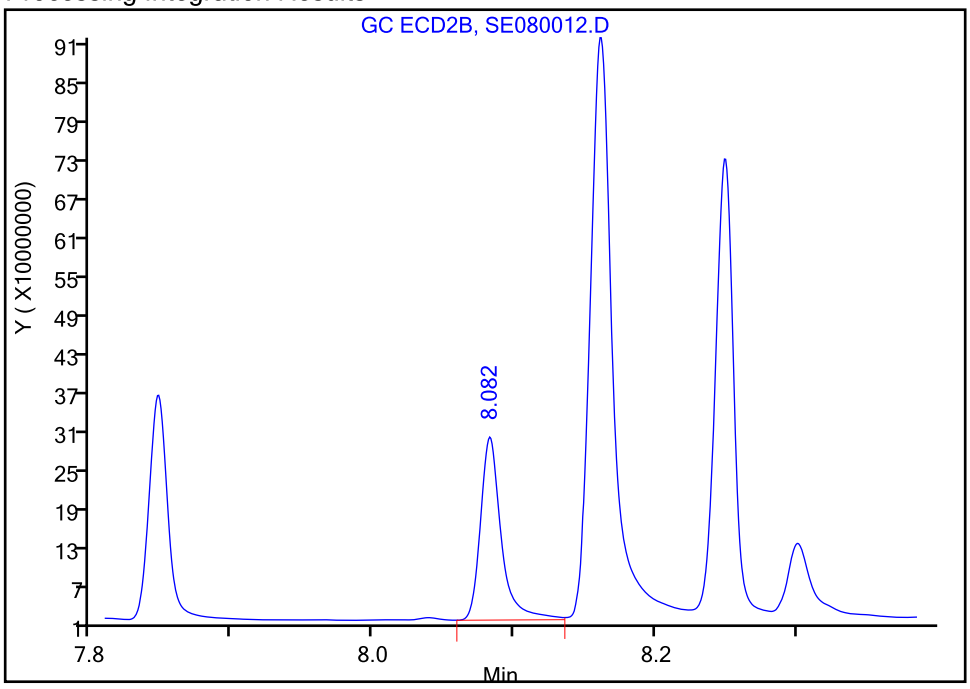
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

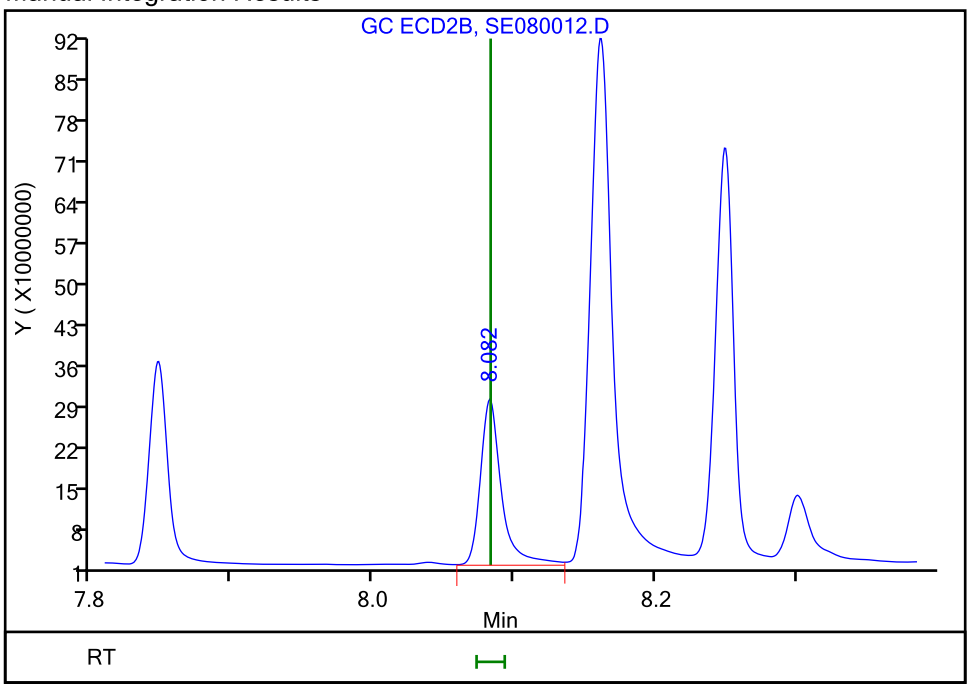
Processing Integration Results

RT: 8.08
Area: 292476486
Amount: 0.044574
Amount Units: ug/ml



Manual Integration Results

RT: 8.08
Area: 298977240
Amount: 0.044982
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

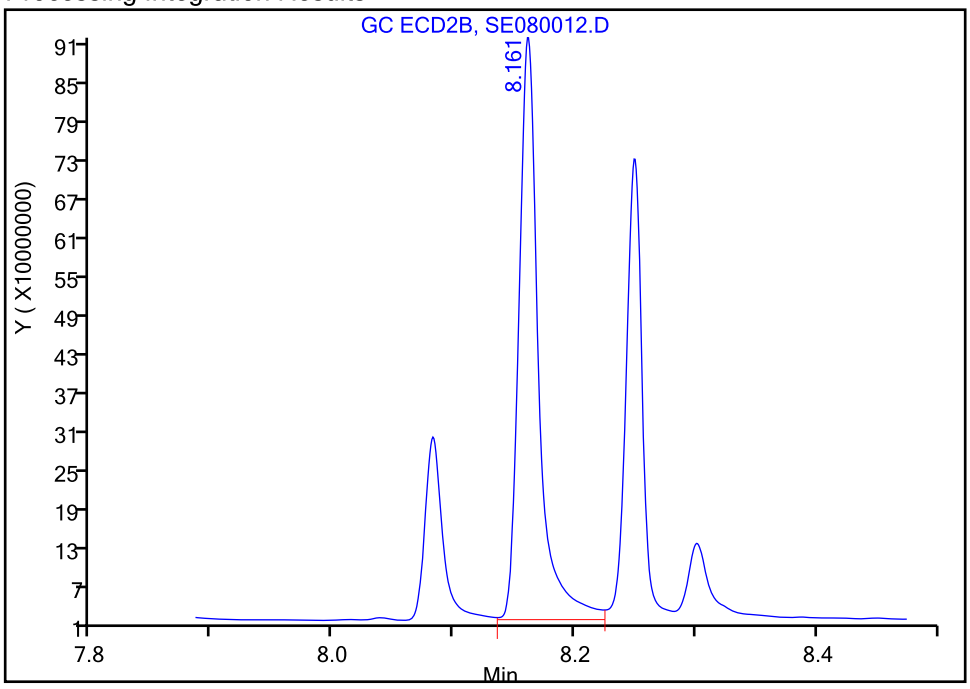
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

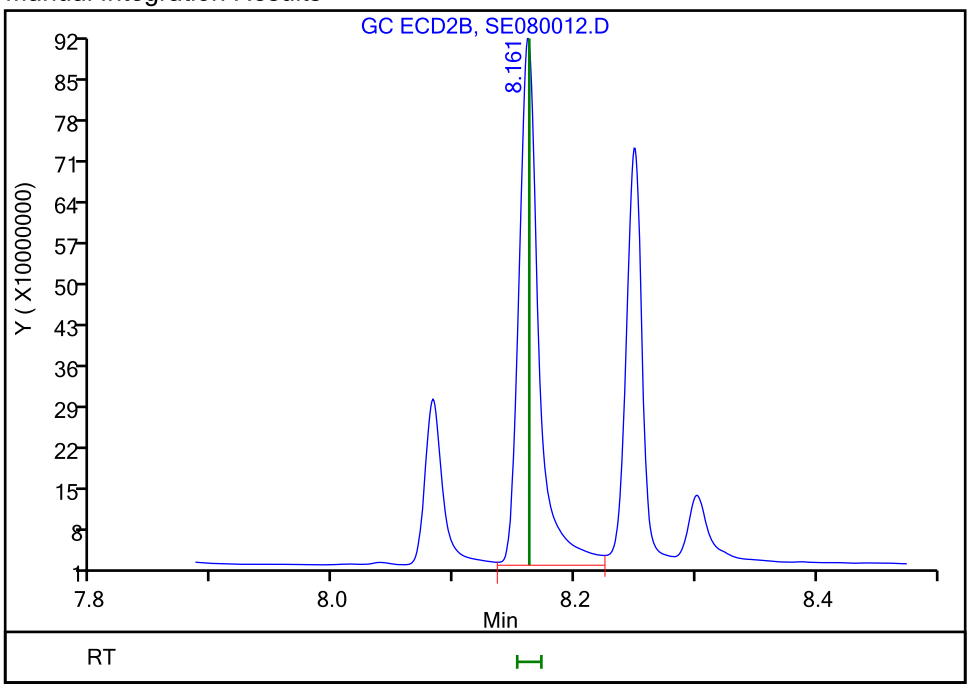
Processing Integration Results

RT: 8.16
Area: 1033507912
Amount: 0.185123
Amount Units: ug/ml



Manual Integration Results

RT: 8.16
Area: 1043446048
Amount: 0.185485
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

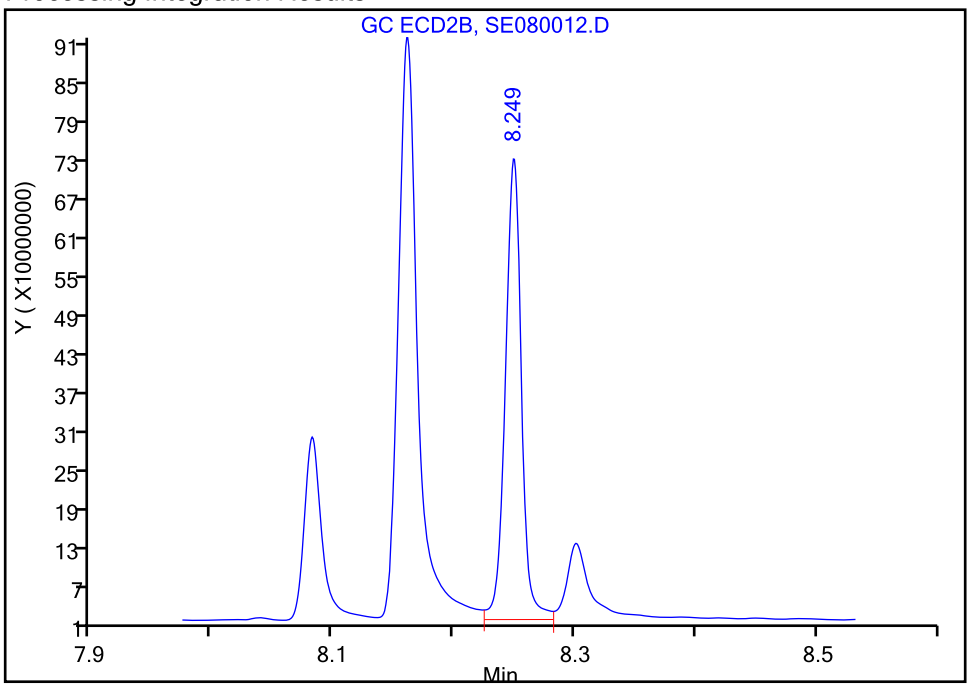
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

17 Dinoseb, CAS: 88-85-7

Signal: 2

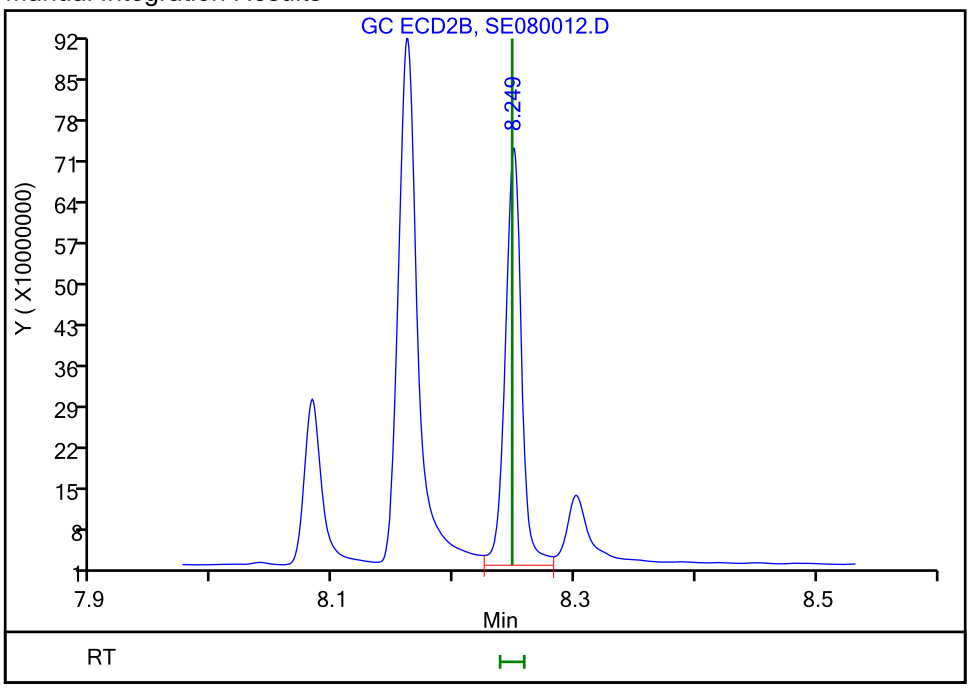
Processing Integration Results

RT: 8.25
Area: 664185314
Amount: 0.147454
Amount Units: ug/ml



Manual Integration Results

RT: 8.25
Area: 670832472
Amount: 0.151471
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

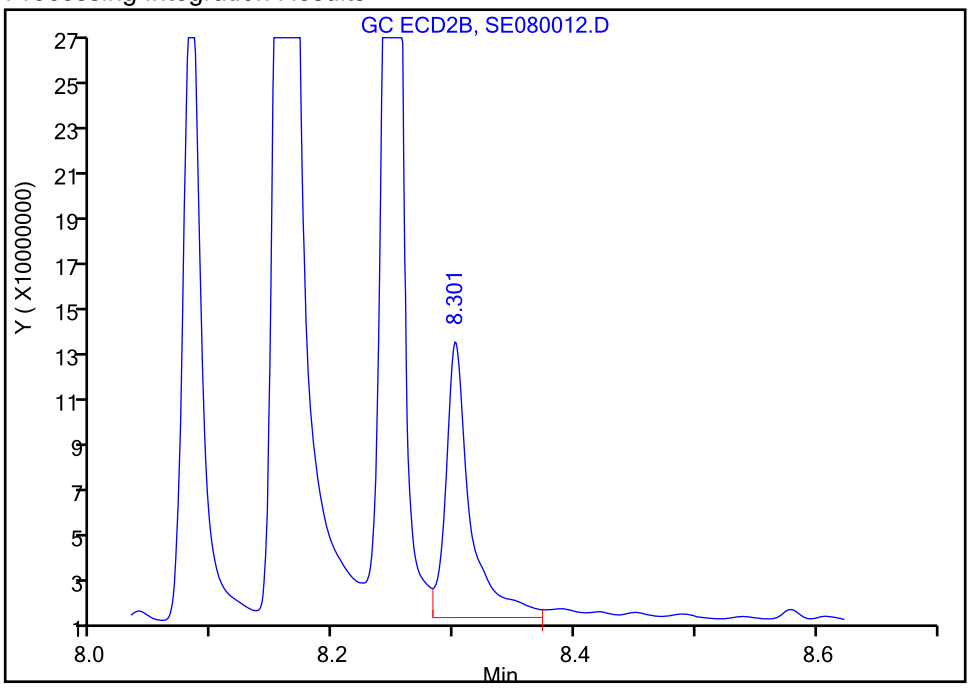
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

16 2,4-DB, CAS: 94-82-6

Signal: 2

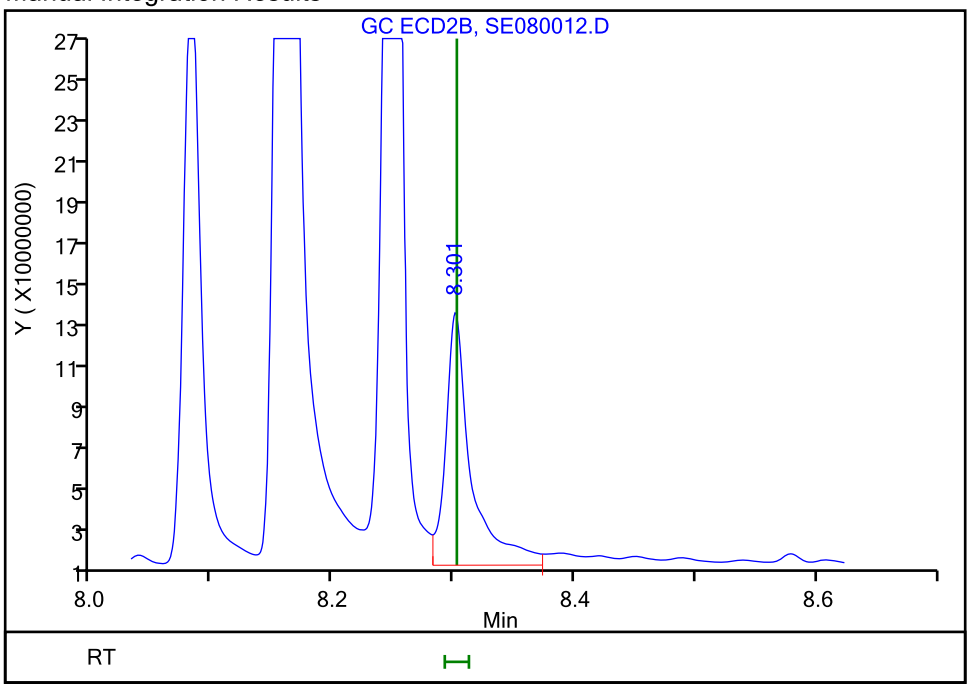
Processing Integration Results

RT: 8.30
Area: 164528949
Amount: 0.167101
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 175272842
Amount: 0.177709
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

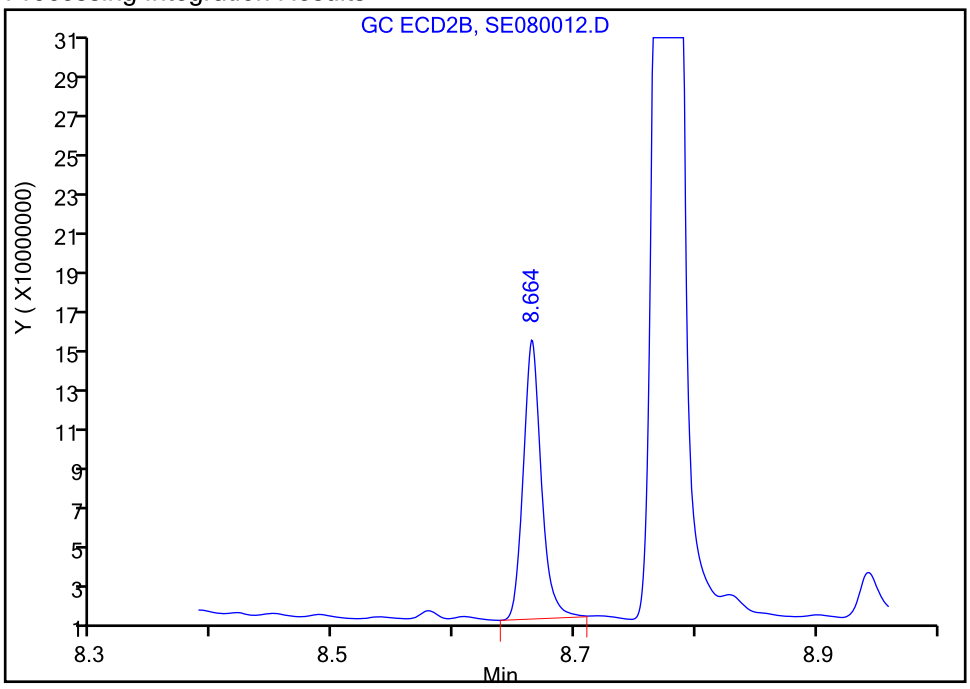
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

18 Bentazon, CAS: 25057-89-0

Signal: 2

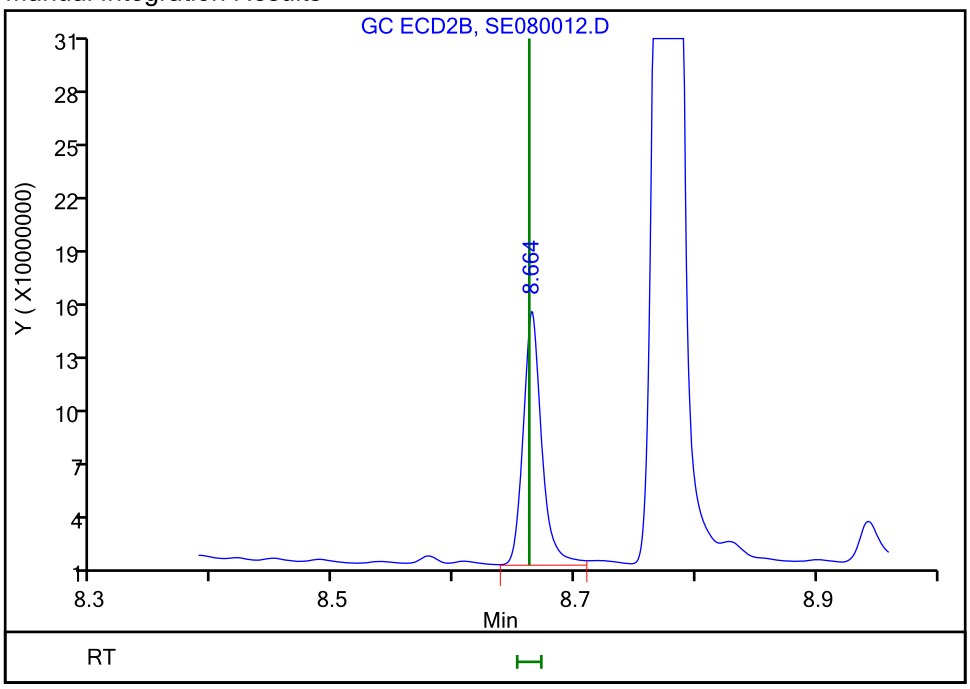
Processing Integration Results

RT: 8.66
Area: 144381017
Amount: 0.181133
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 149493508
Amount: 0.185944
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

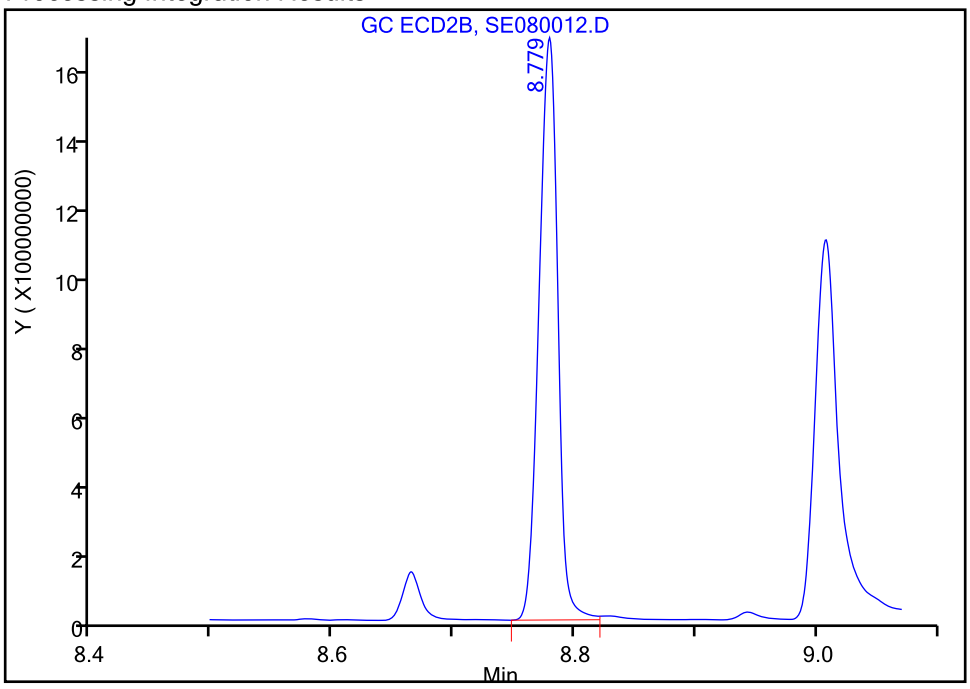
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

20 DCPA, CAS: 1861-32-1

Signal: 2

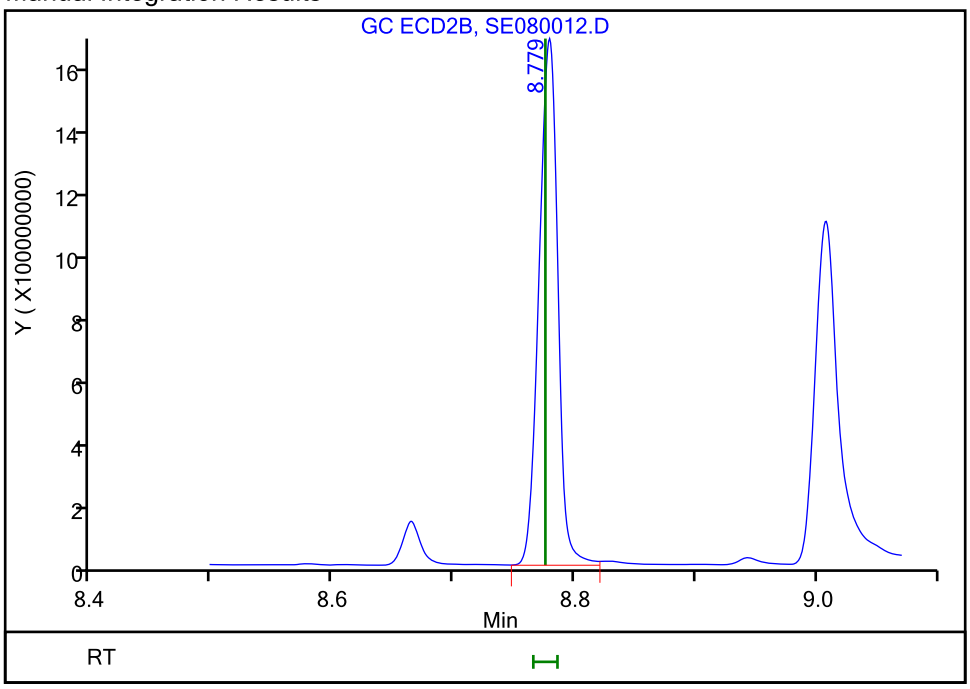
Processing Integration Results

RT: 8.78
Area: 1816748627
Amount: 0.185639
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 1822835497
Amount: 0.185604
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

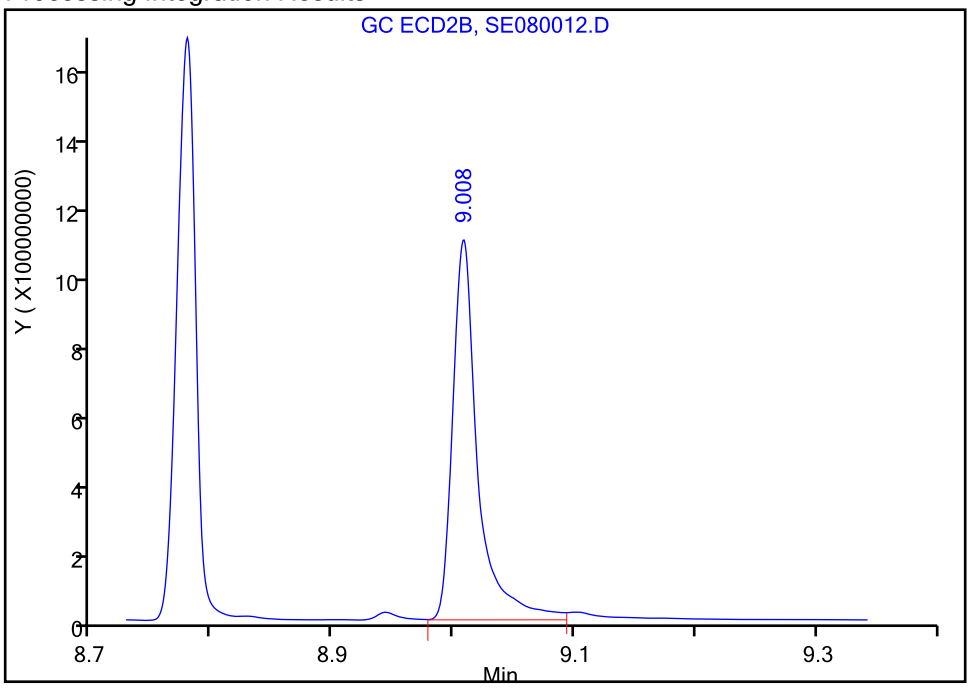
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

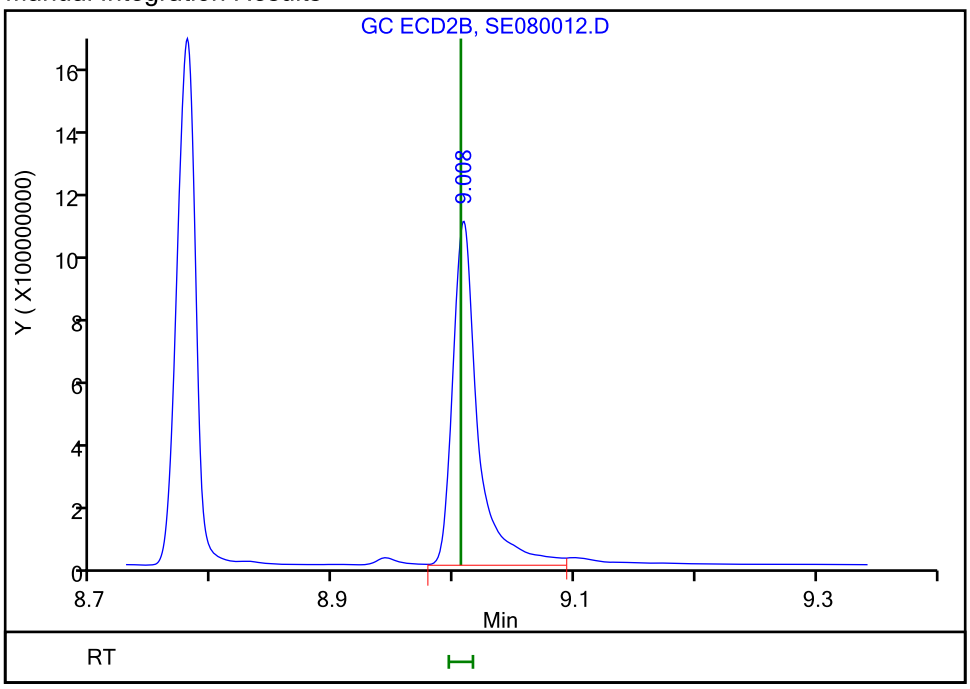
Processing Integration Results

RT: 9.01
Area: 1583160054
Amount: 0.152106
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 1596868377
Amount: 0.151259
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

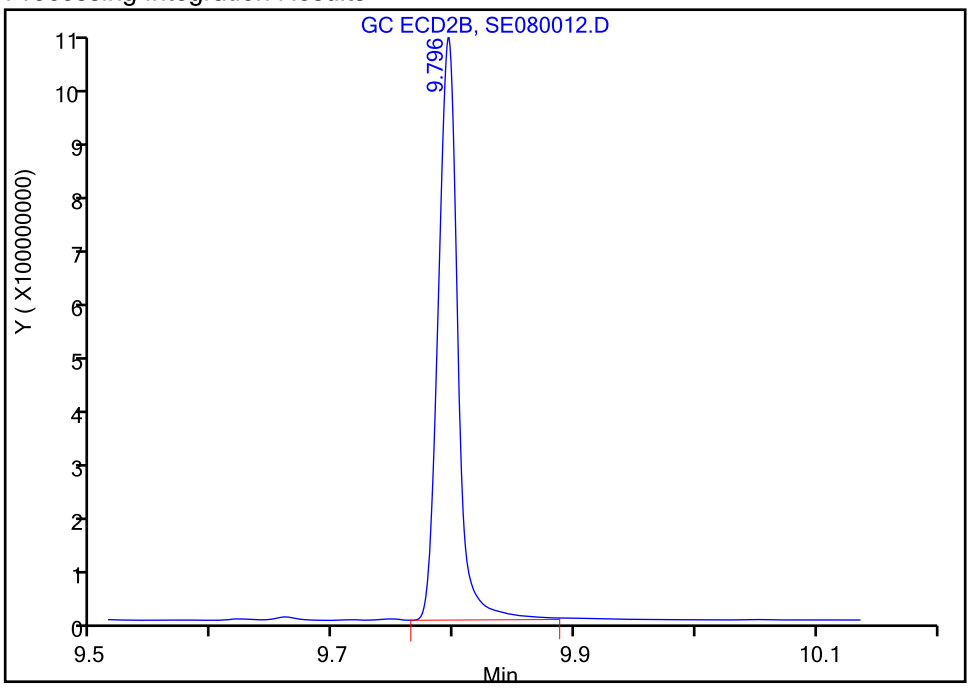
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

21 Acifluorfen, CAS: 50594-66-6

Signal: 2

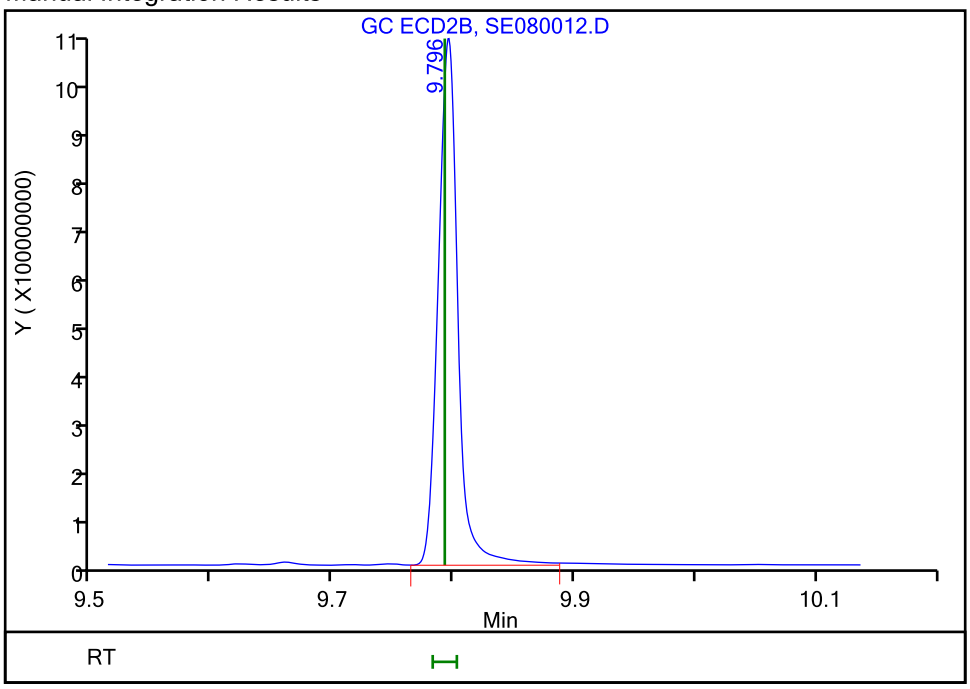
Processing Integration Results

RT: 9.80
Area: 1182788136
Amount: 0.148067
Amount Units: ug/ml



Manual Integration Results

RT: 9.80
Area: 1189239771
Amount: 0.160100
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	524076394	407346190		0.0777	0.100	-22.3*	20.0
3,5-Dichlorobenzoic acid	Ave	321415612	283173340		0.0881	0.100	-11.9	20.0
4-Nitrophenol	Ave	92458216	91901530		0.0994	0.100	-0.6	20.0
Dicamba	Ave	1077009527	922446760		0.0428	0.0500	-14.4	20.0
MCPP	Qua		469003		9.85	10.0	-1.5	20.0
MCPA	Ave	925968	935489		10.1	10.0	1.0	20.0
Dichlorprop	Ave	277497963	258402050		0.0931	0.100	-6.9	20.0
2,4-D	Ave	302399622	279399860		0.0924	0.100	-7.6	20.0
Pentachlorophenol	Ave	5383895550	4633460080		0.0215	0.0250	-13.9	20.0
Silvex (2,4,5-TP)	Ave	1878728542	1676673120		0.0223	0.0250	-10.8	20.0
Chloramben	Qua		1205892700		0.0819	0.100	-18.1	20.0
2,4,5-T	Ave	2193840481	2024242400		0.0231	0.0250	-7.7	20.0
2,4-DB	Qua		131484440		0.0888	0.100	-11.2	20.0
Dinoseb	Ave	1223895982	1063035430		0.0869	0.100	-13.1	20.0
Bentazon	Ave	287551968	263316600		0.0916	0.100	-8.4	20.0
Picloram	Qua		1934015400		0.0834	0.100	-16.6	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	3293157561	2909428780		0.0883	0.100	-11.7	20.0
Acifluorfen	Qua		1962049570		0.0869	0.100	-13.1	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	211477985	183772960		0.0869	0.100	-13.1	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.58	2.56	2.60
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.25	6.24	6.26
Dicamba	6.72	6.71	6.73
MCPP	6.87	6.86	6.88
MCPA	6.99	6.98	7.00
Dichlorprop	7.18	7.17	7.19
2,4-D	7.33	7.32	7.34
Pentachlorophenol	7.67	7.66	7.68
Silvex (2,4,5-TP)	7.77	7.76	7.78
Chloramben	7.86	7.85	7.87
2,4,5-T	7.93	7.92	7.94
2,4-DB	8.18	8.17	8.19
Dinoseb	8.22	8.21	8.23
Bentazon	8.30	8.29	8.31
Picloram	8.53	8.52	8.54
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	8.61	8.63
Acifluorfen	9.67	9.66	9.68
2,4-Dichlorophenylacetic acid (Surr)	6.68	6.67	6.69

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 21:40:11 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-028
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:37:48 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:21:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.578	2.579	-0.001	40734619	0.1000	0.0777	
2	2.632	2.632	0.000	124683071	0.1000	0.0774	
						RPD = 0.48	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	8885882	NC	NC	
2	5.102	5.102	0.000	45742372	NC	NC	
						RPD = 7.11	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	104333704	NC	NC	
2	5.776	5.776	0.000	435611631	NC	NC	
						RPD = 2.76	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	28317334	0.1000	0.0881	
2	6.116	6.116	0.000	146847224	0.1000	0.0817	
						RPD = 7.52	
5 4-Nitrophenol							
1	6.252	6.253	-0.001	9190153	0.1000	0.0994	
2	6.505	6.505	0.000	26148392	0.1000	0.0874	
						RPD = 12.80	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.683	6.683	0.000	18377296	0.1000	0.0869	M
2	6.828	6.829	-0.001	116117949	0.1000	0.0825	M
						RPD = 5.21	
7 Dicamba							M
1	6.720	6.720	0.000	46122338	0.0500	0.0428	M
2	6.911	6.910	0.001	205108302	0.0500	0.0409	M
						RPD = 4.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	4690034	10.0	9.85	M
2	6.956	6.955	0.001	42581663	10.0	8.89	M
						RPD = 10.31	
9 MCPA							M
1	6.994	6.994	0.000	9354886	10.0	10.1	M
2	7.153	7.155	-0.002	65630302	10.0	11.6	M
						RPD = 13.55	
10 Dichlorprop							M
1	7.180	7.180	0.000	25840205	0.1000	0.0931	M
2	7.297	7.297	0.000	117222842	0.1000	0.0831	M
						RPD = 11.31	
11 2,4-D							M
1	7.327	7.326	0.001	27939986	0.1000	0.0924	M
2	7.517	7.517	0.000	133627356	0.1000	0.0839	M
						RPD = 9.69	
12 Pentachlorophenol							M
1	7.673	7.674	-0.001	115836502	0.0250	0.0215	M
2	7.713	7.714	-0.001	399815476	0.0250	0.0213	M
						RPD = 1.21	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	41916828	0.0250	0.0223	M
2	7.847	7.846	0.001	155993801	0.0250	0.0211	M
						RPD = 5.56	
14 Chloramben							M
1	7.857	7.855	0.002	120589270	0.1000	0.0819	M
2	8.162	8.162	0.000	457969533	0.1000	0.0814	M
						RPD = 0.55	
15 2,4,5-T							M
1	7.929	7.929	0.000	50606060	0.0250	0.0231	M
2	8.083	8.083	0.000	135127386	0.0250	0.0203	M
						RPD = 12.61	
16 2,4-DB							M
1	8.176	8.175	0.001	13148444	0.1000	0.0888	M
2	8.302	8.302	0.000	91637209	0.1000	0.0929	M
						RPD = 4.51	
17 Dinoseb							M
1	8.222	8.224	-0.002	106303543	0.1000	0.0869	M
2	8.248	8.248	0.000	310276845	0.1000	0.0737	M
						RPD = 16.39	
18 Bentazon							M
1	8.301	8.300	0.001	26331660	0.1000	0.0916	M
2	8.663	8.662	0.001	67492156	0.1000	0.0839	M
						RPD = 8.69	
19 Picloram							M
1	8.530	8.529	0.001	193401540	0.1000	0.0834	M
2	9.007	9.005	0.002	686881952	0.1000	0.0704	M
						RPD = 16.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	290942878	0.1000	0.0883	M
2	8.777	8.775	0.002	842841434	0.1000	0.0858	M
						RPD = 2.90	
21 Acifluorfen							M
1	9.667	9.666	0.001	196204957	0.1000	0.0869	M
2	9.793	9.792	0.001	538041096	0.1000	0.0817	
						RPD = 6.20	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

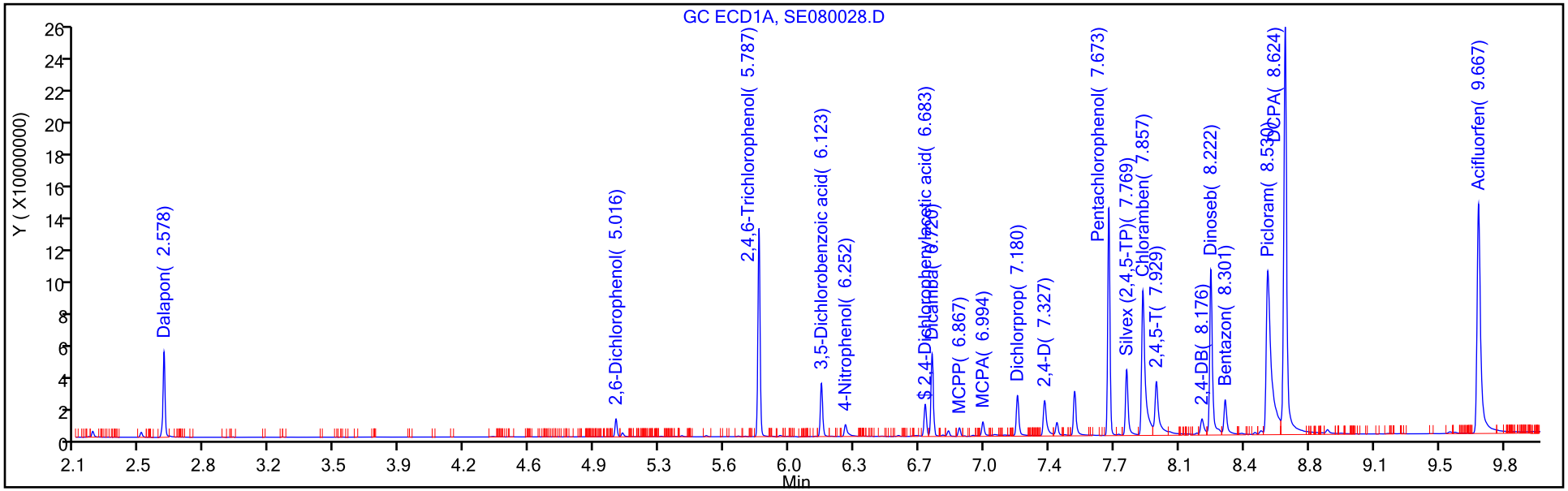
Report Date: 09-May-2018 09:37:54 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

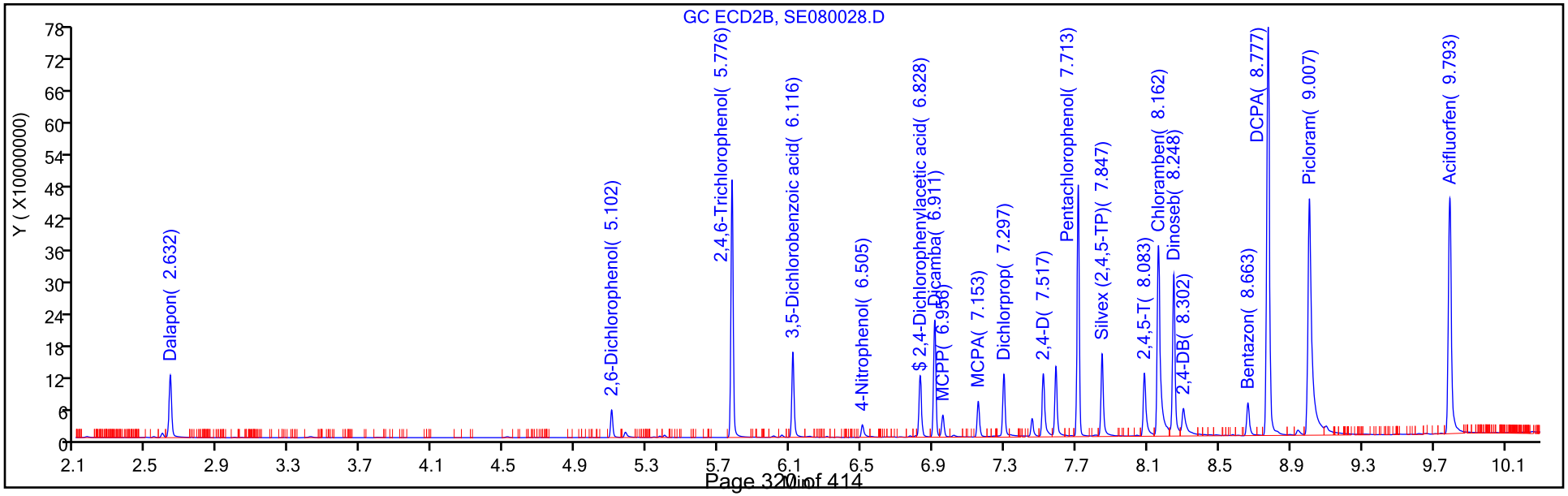
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

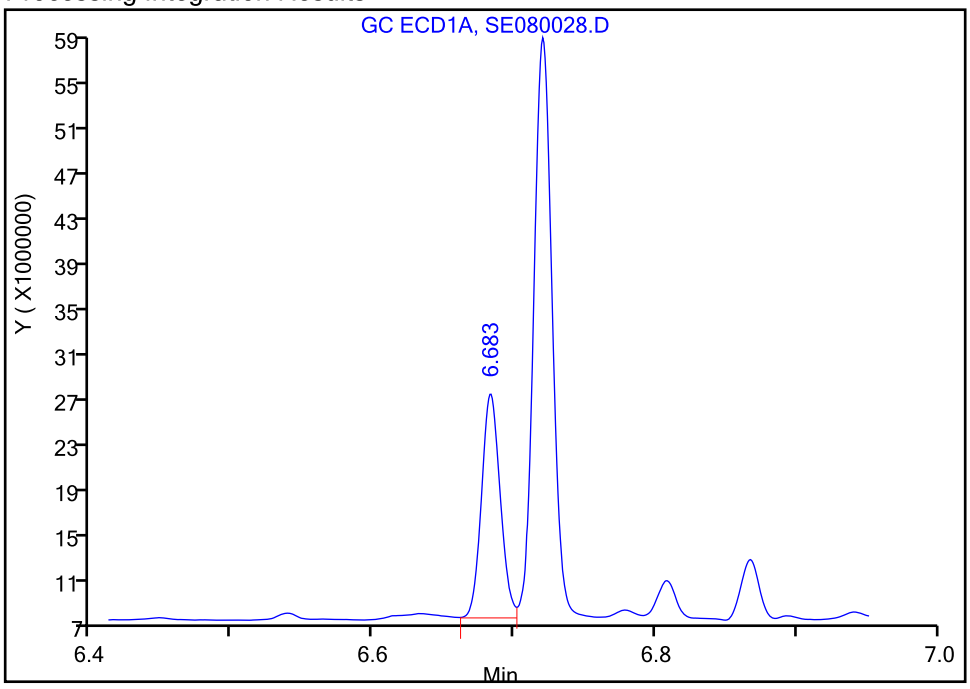
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 1

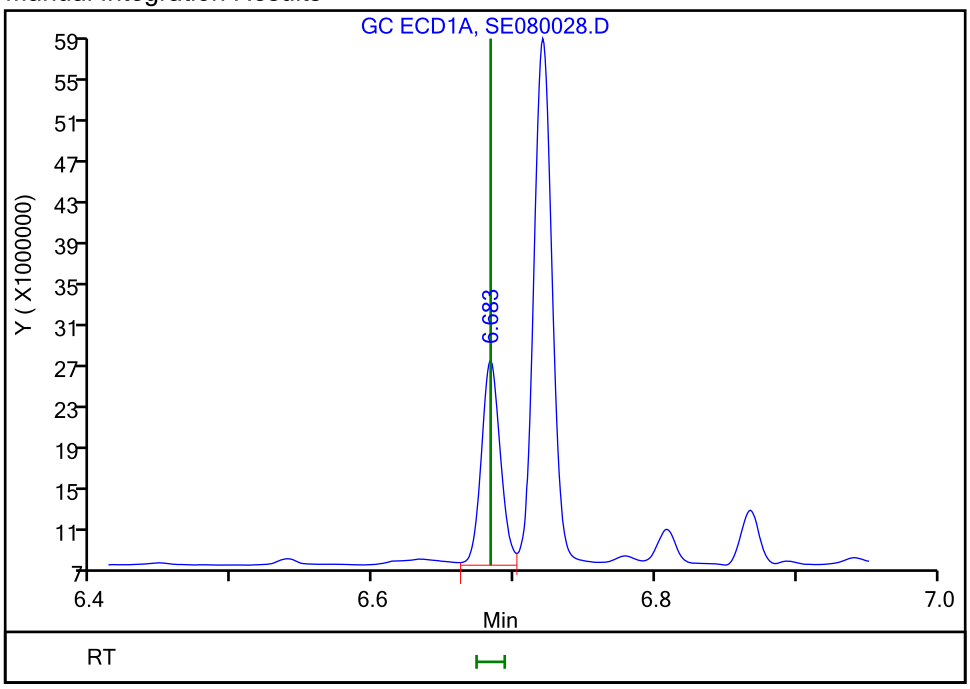
Processing Integration Results

RT: 6.68
Area: 17876221
Amount: 0.084530
Amount Units: ug/ml



Manual Integration Results

RT: 6.68
Area: 18377296
Amount: 0.086899
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

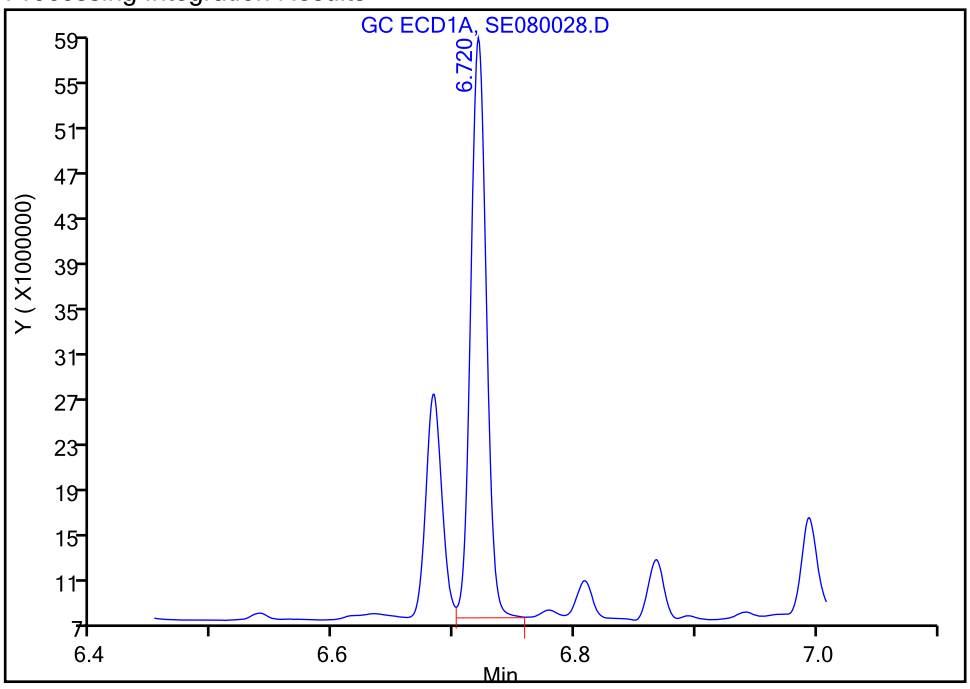
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

7 Dicamba, CAS: 1918-00-9

Signal: 1

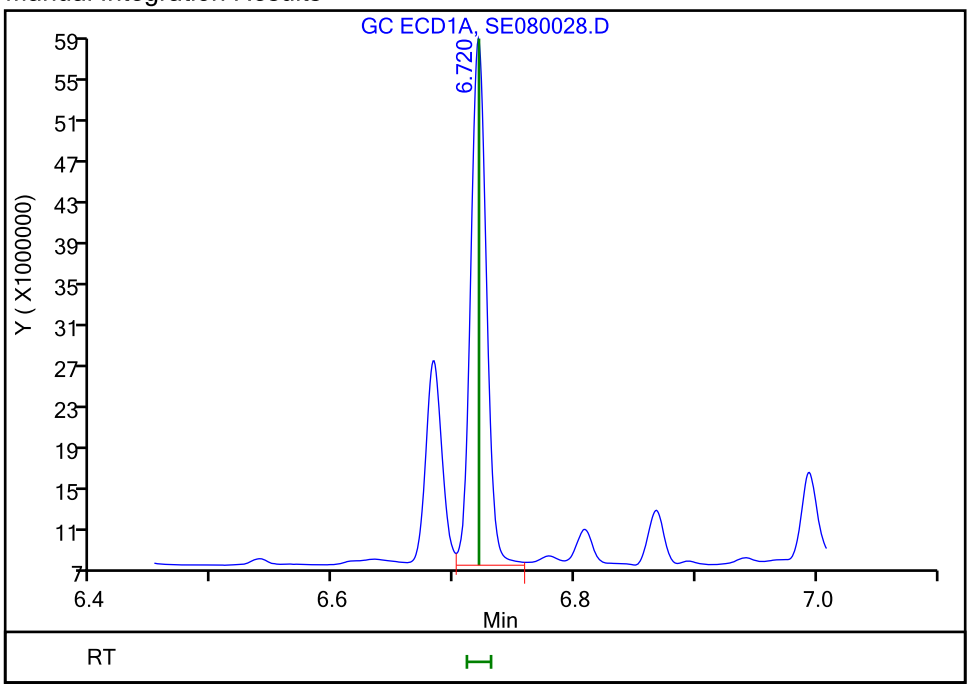
Processing Integration Results

RT: 6.72
Area: 45383724
Amount: 0.042139
Amount Units: ug/ml



Manual Integration Results

RT: 6.72
Area: 46122338
Amount: 0.042824
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

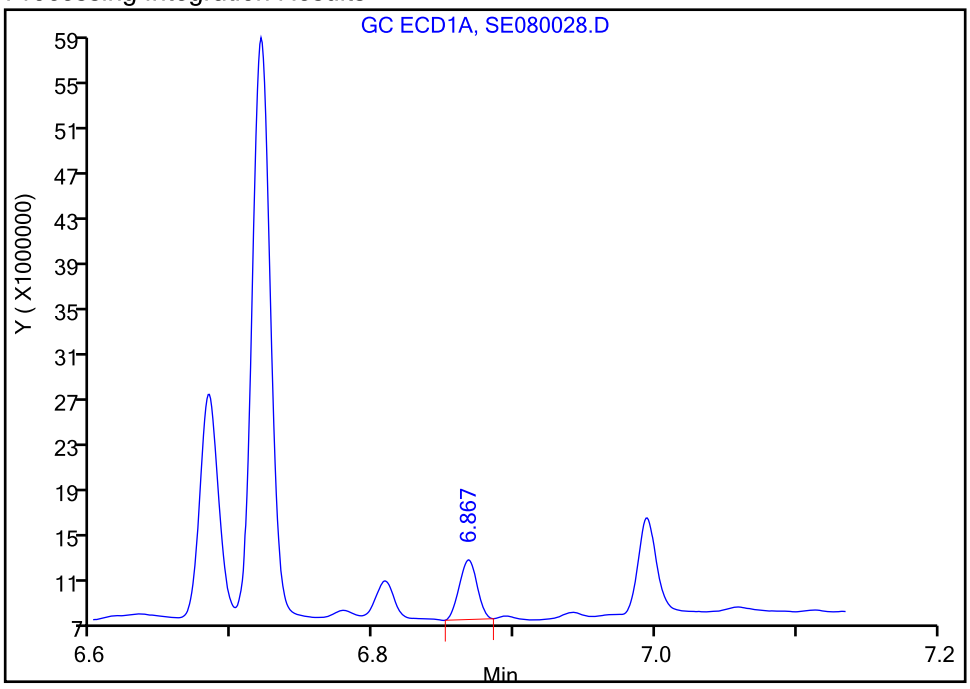
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

8 MCPP, CAS: 93-65-2

Signal: 1

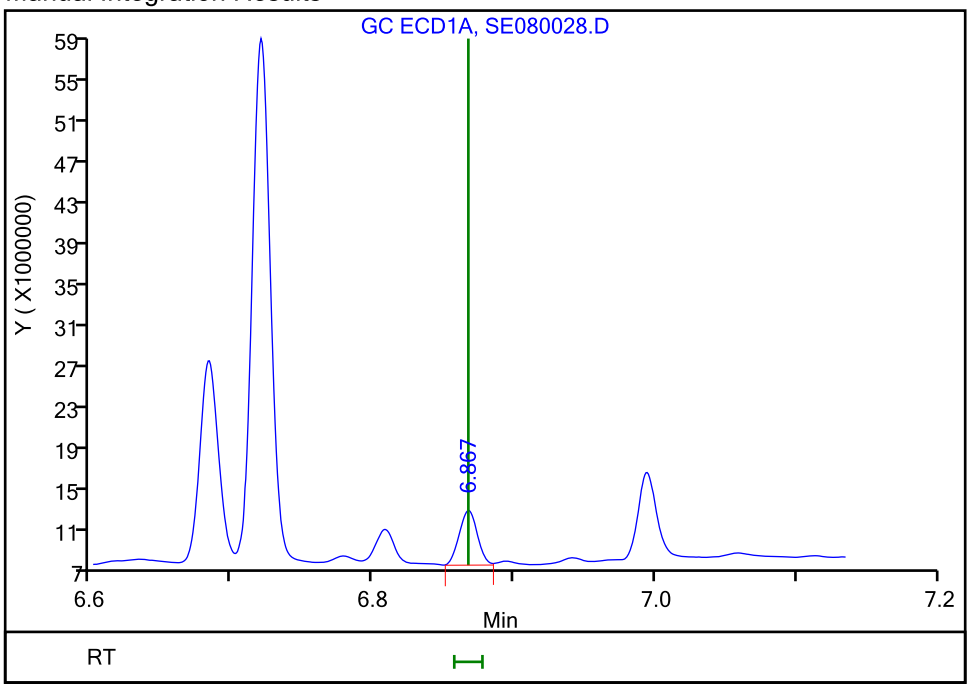
Processing Integration Results

RT: 6.87
Area: 4516934
Amount: 9.550371
Amount Units: ug/ml



Manual Integration Results

RT: 6.87
Area: 4690034
Amount: 9.853576
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:14
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

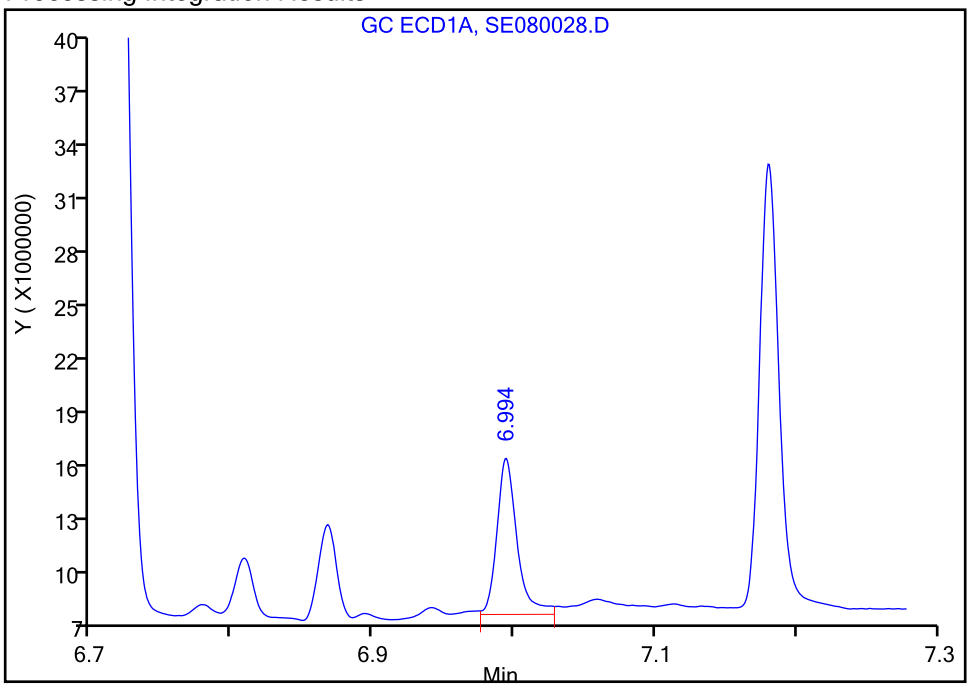
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

9 MCPA, CAS: 94-74-6

Signal: 1

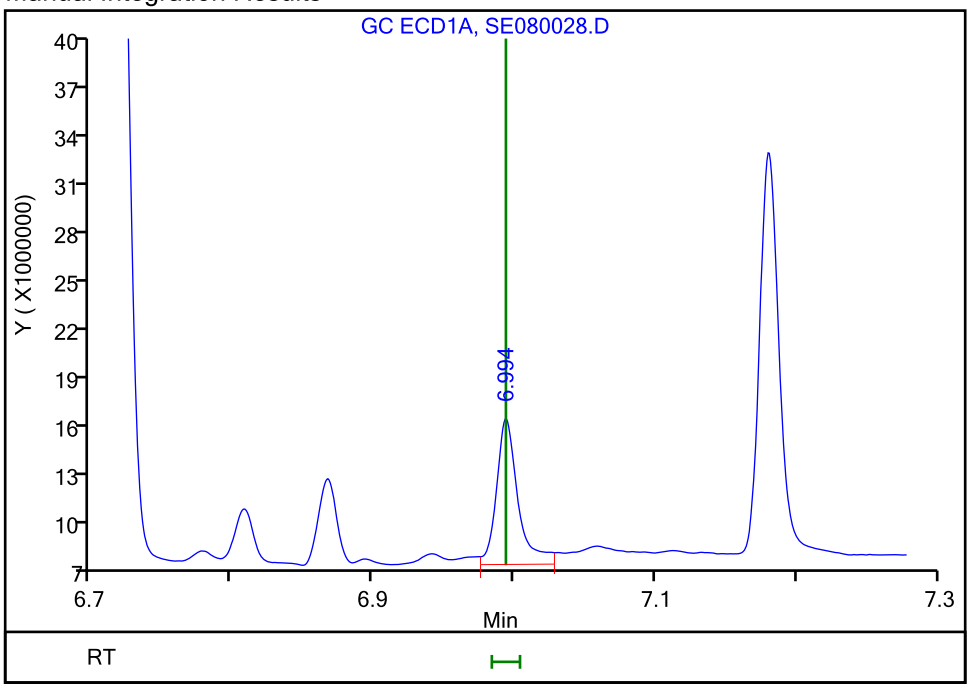
Processing Integration Results

RT: 6.99
Area: 8493762
Amount: 9.172845
Amount Units: ug/ml



Manual Integration Results

RT: 6.99
Area: 9354886
Amount: 10.102816
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

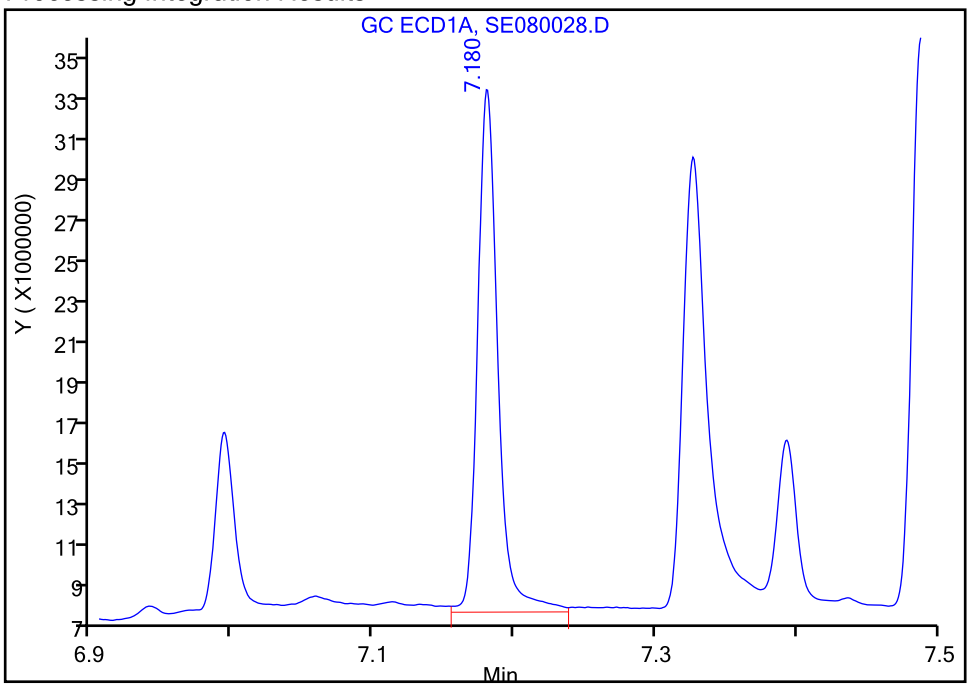
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

10 Dichlorprop, CAS: 120-36-5

Signal: 1

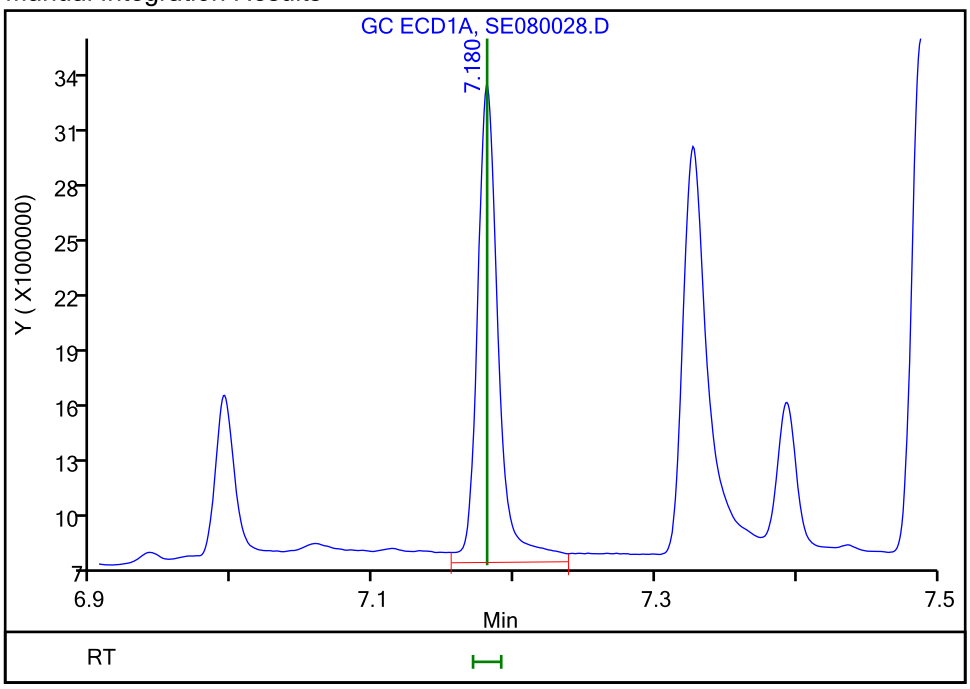
Processing Integration Results

RT: 7.18
Area: 24664605
Amount: 0.088882
Amount Units: ug/ml



Manual Integration Results

RT: 7.18
Area: 25840205
Amount: 0.093119
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

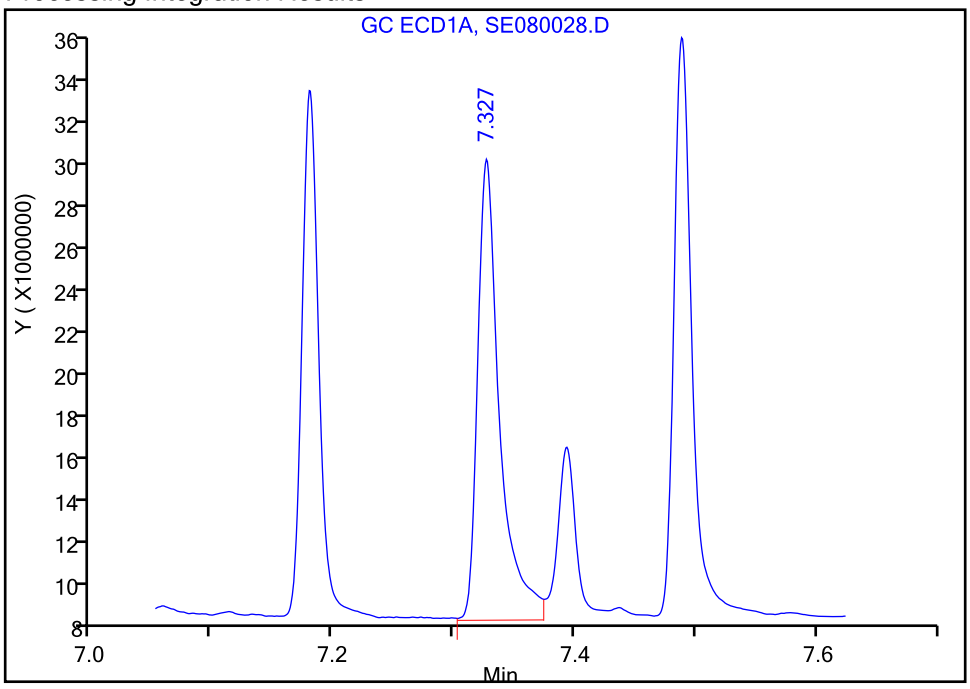
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

11 2,4-D, CAS: 94-75-7

Signal: 1

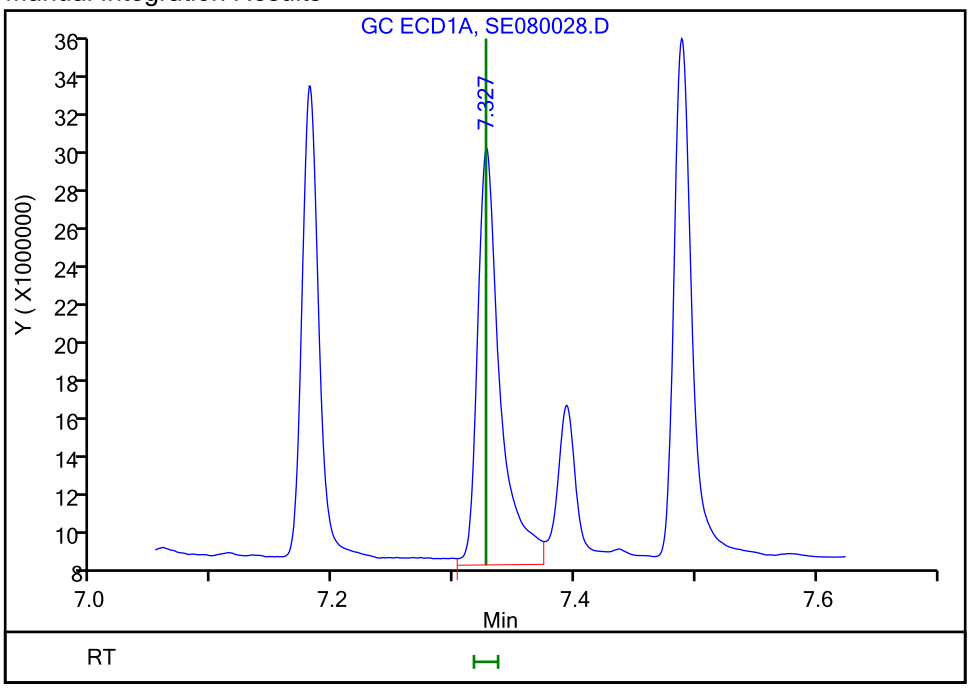
Processing Integration Results

RT: 7.33
Area: 26942730
Amount: 0.089096
Amount Units: ug/ml



Manual Integration Results

RT: 7.33
Area: 27939986
Amount: 0.092394
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

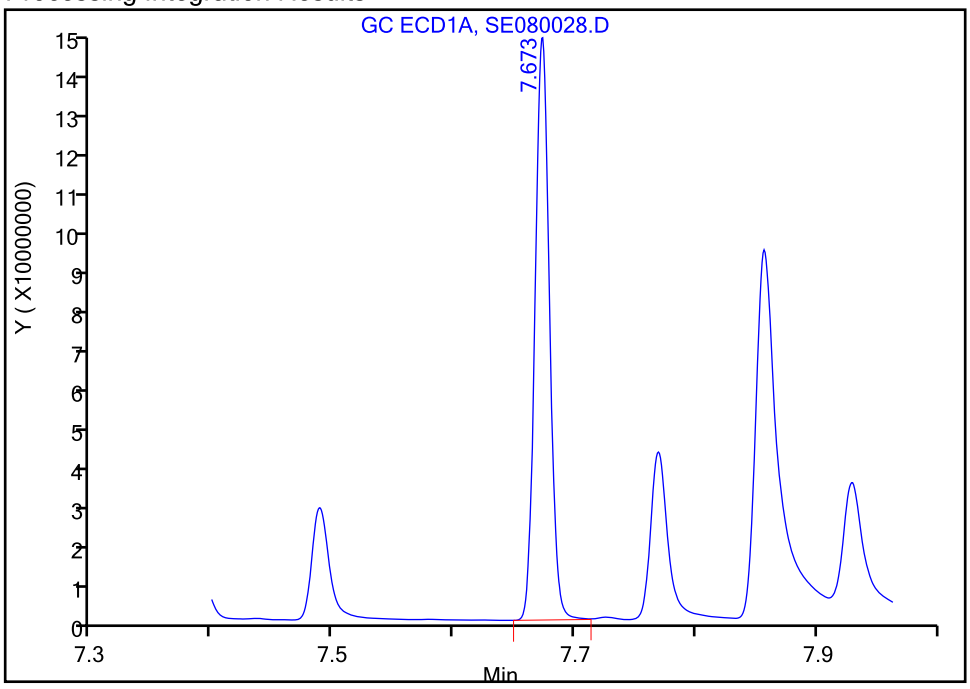
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

12 Pentachlorophenol, CAS: 87-86-5

Signal: 1

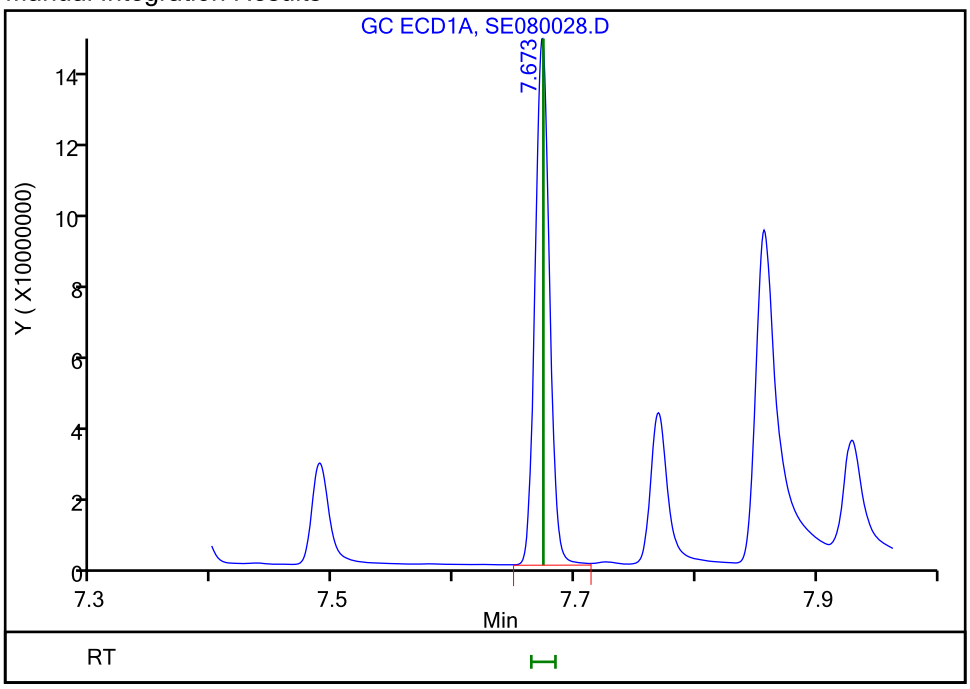
Processing Integration Results

RT: 7.67
Area: 115029769
Amount: 0.021366
Amount Units: ug/ml



Manual Integration Results

RT: 7.67
Area: 115836502
Amount: 0.021515
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

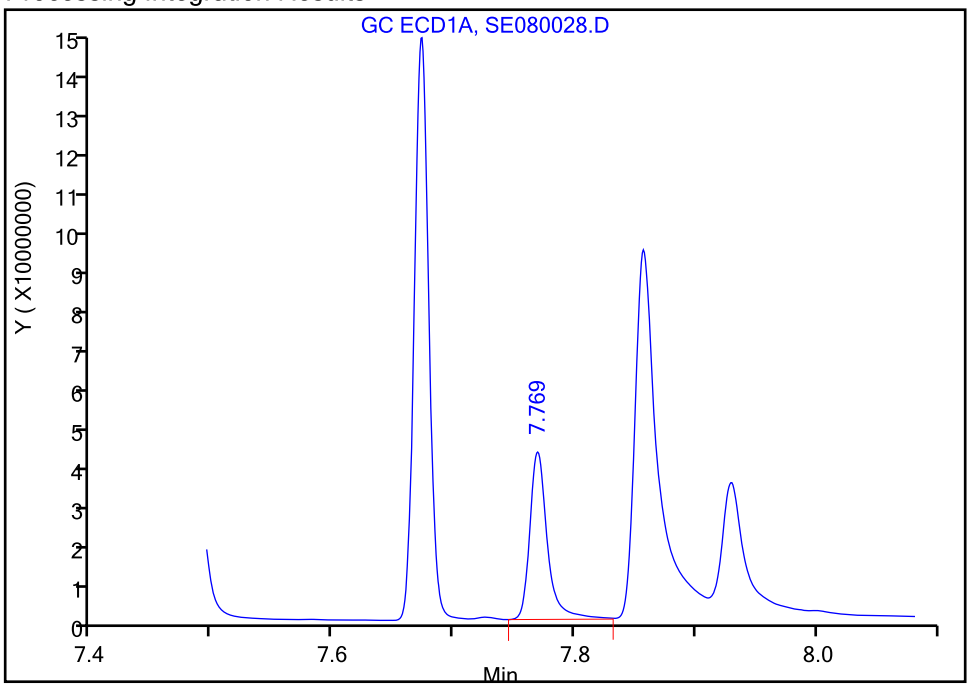
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 1

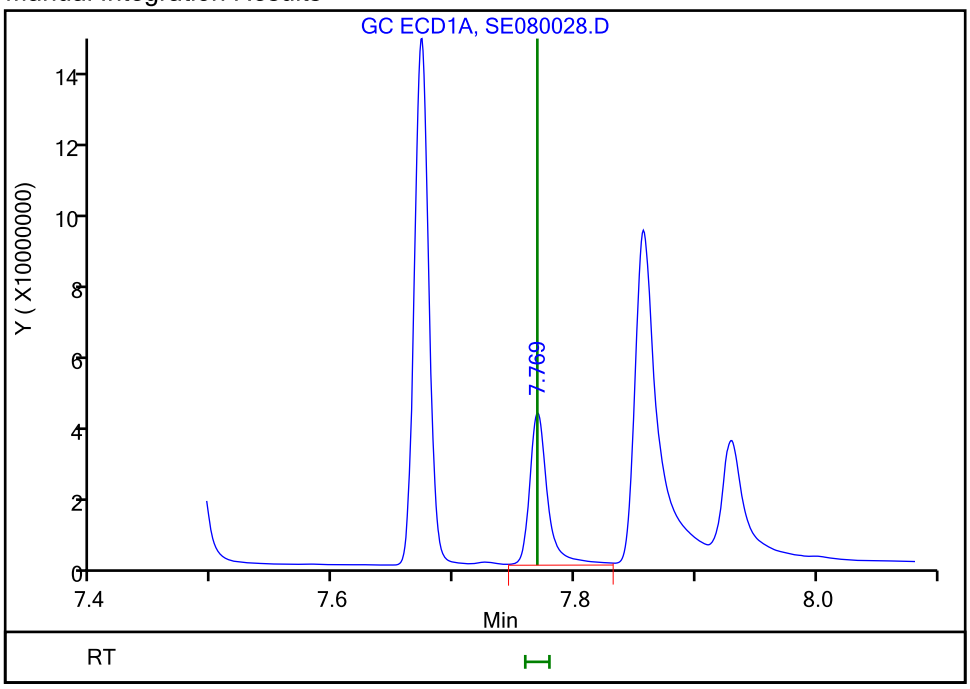
Processing Integration Results

RT: 7.77
Area: 40488427
Amount: 0.021551
Amount Units: ug/ml



Manual Integration Results

RT: 7.77
Area: 41916828
Amount: 0.022311
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

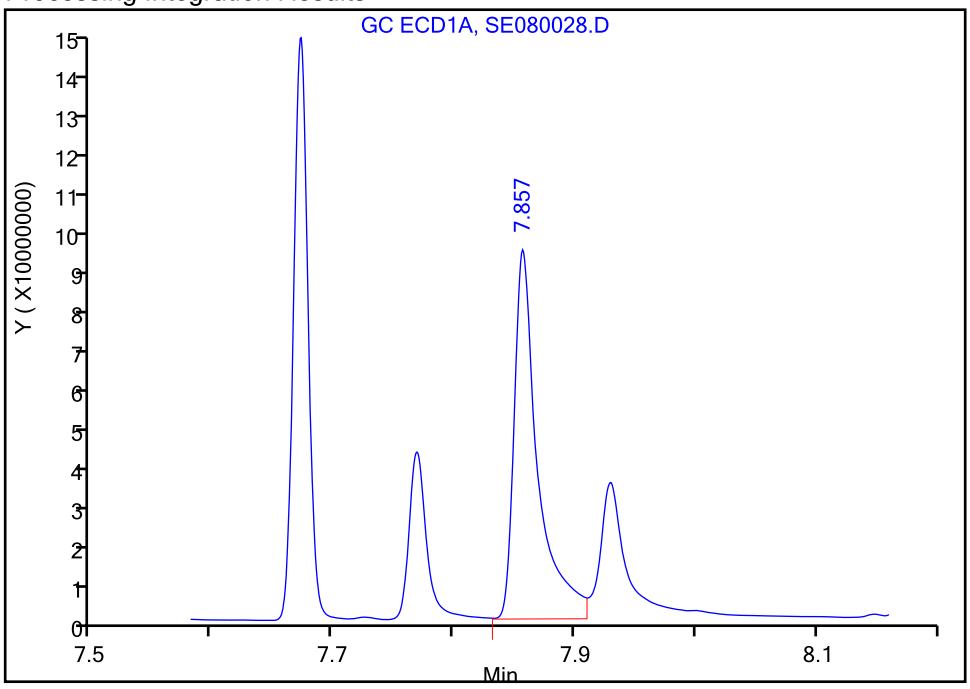
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

14 Chloramben, CAS: 133-90-4

Signal: 1

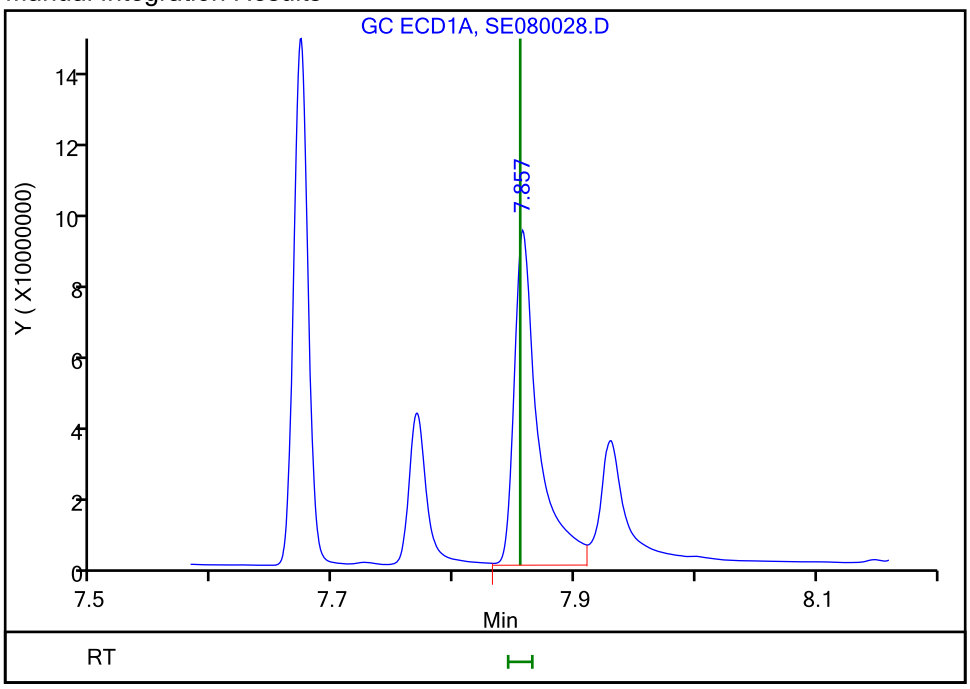
Processing Integration Results

RT: 7.86
Area: 119097819
Amount: 0.081002
Amount Units: ug/ml



Manual Integration Results

RT: 7.86
Area: 120589270
Amount: 0.081859
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

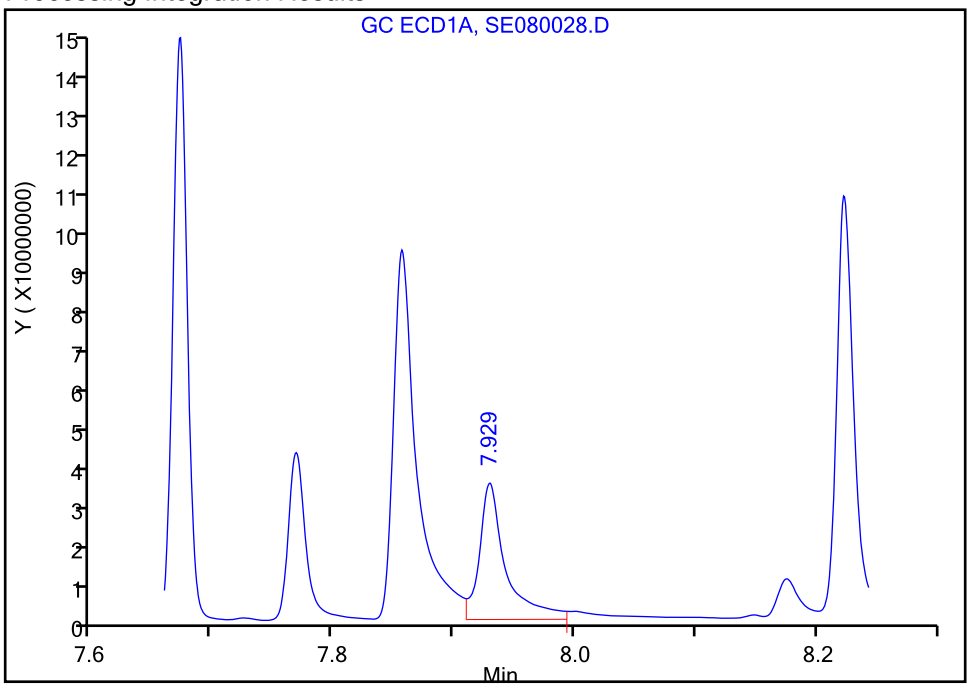
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

15 2,4,5-T, CAS: 93-76-5

Signal: 1

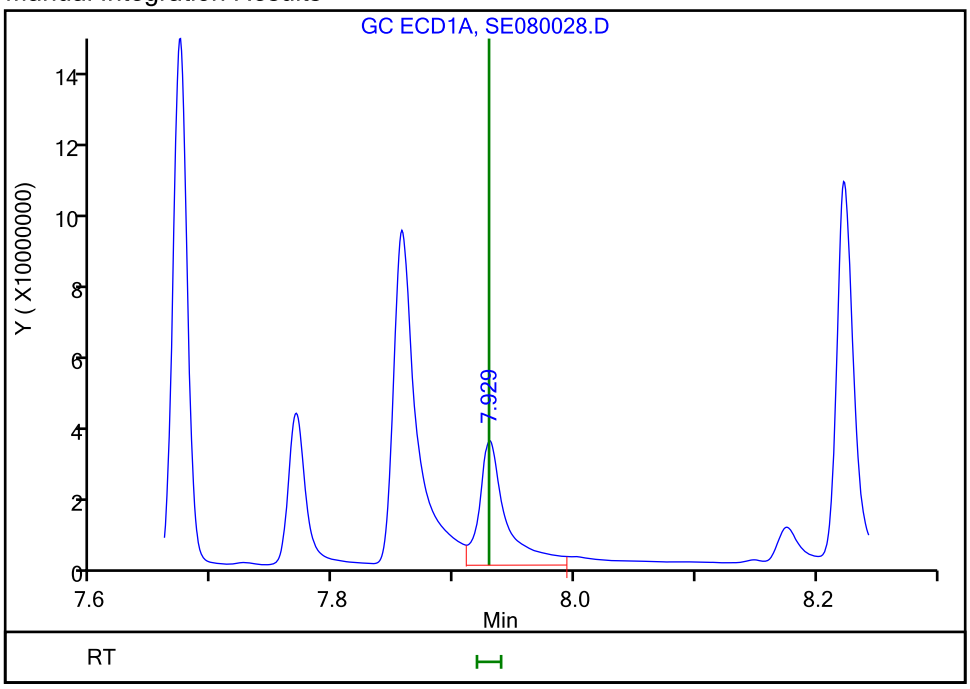
Processing Integration Results

RT: 7.93
Area: 48927313
Amount: 0.022302
Amount Units: ug/ml



Manual Integration Results

RT: 7.93
Area: 50606060
Amount: 0.023067
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

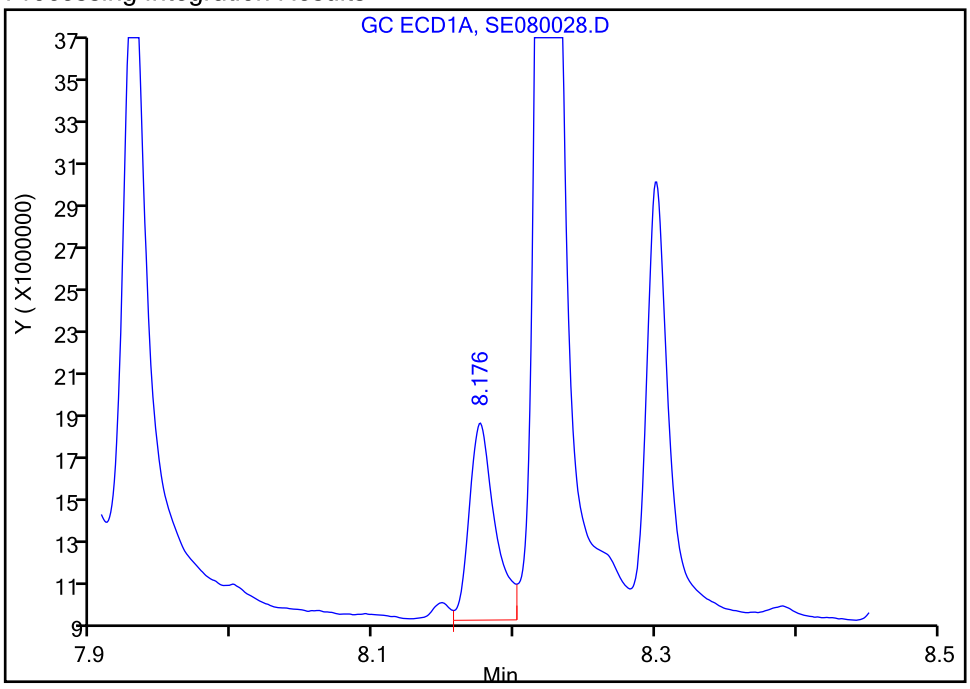
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

16 2,4-DB, CAS: 94-82-6

Signal: 1

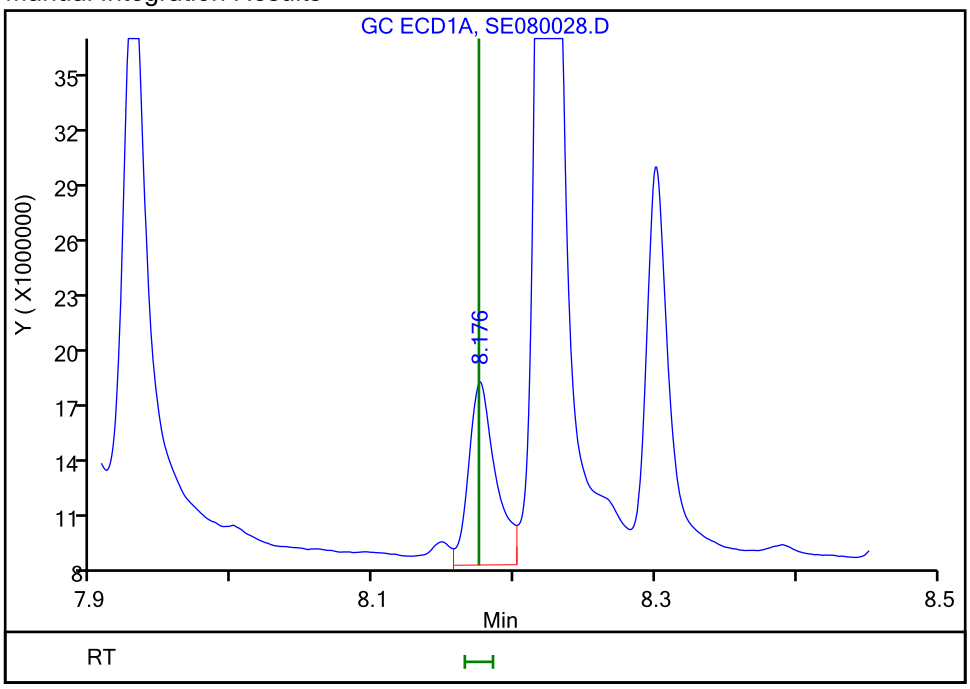
Processing Integration Results

RT: 8.18
Area: 12042105
Amount: 0.082623
Amount Units: ug/ml



Manual Integration Results

RT: 8.18
Area: 13148444
Amount: 0.088814
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

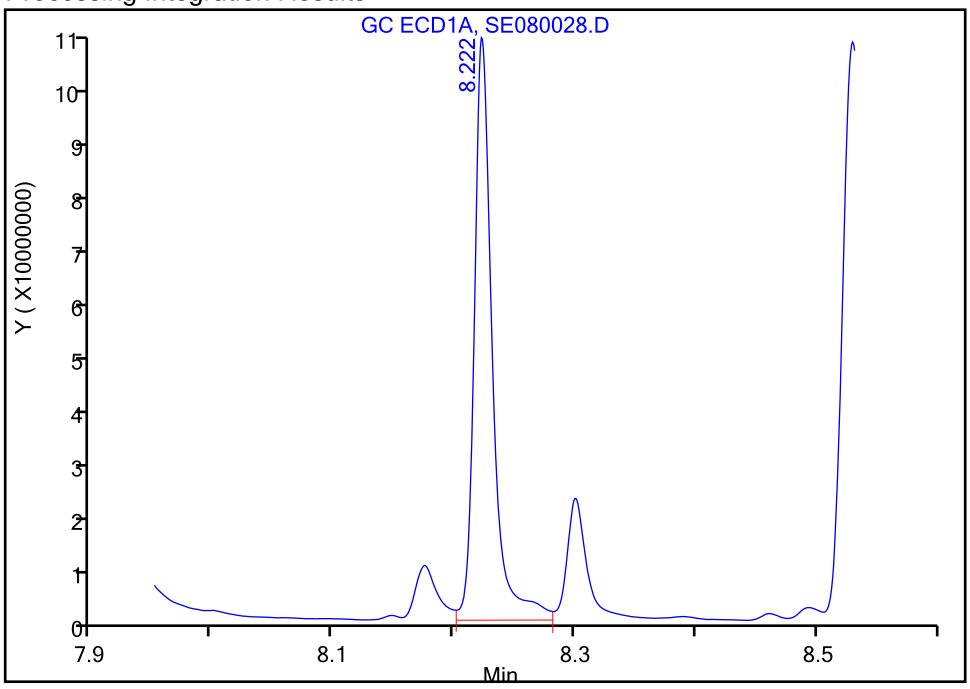
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

17 Dinoseb, CAS: 88-85-7

Signal: 1

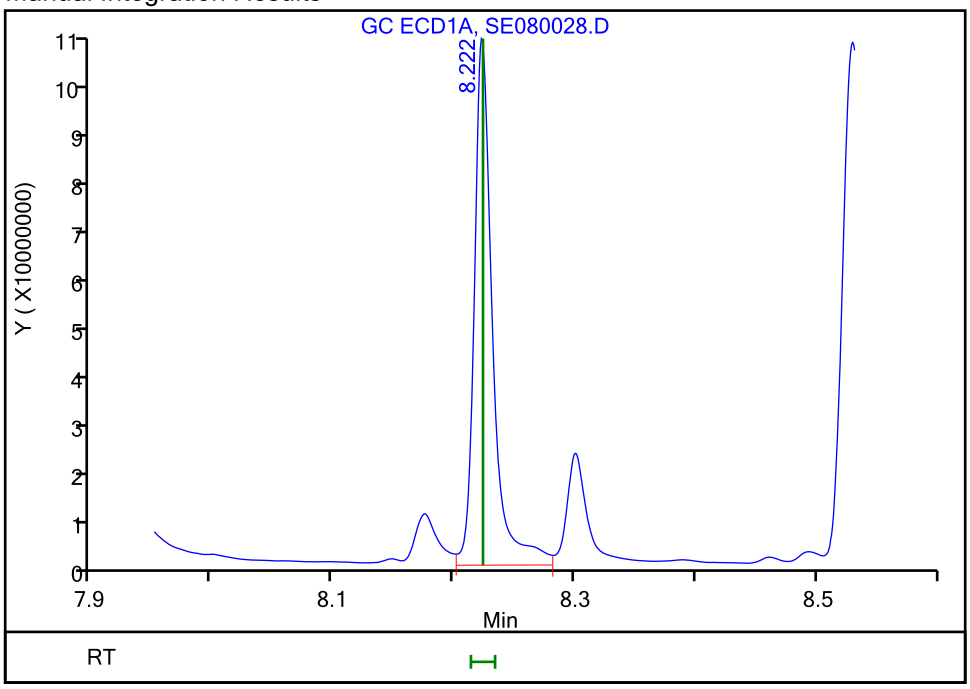
Processing Integration Results

RT: 8.22
Area: 104391134
Amount: 0.085294
Amount Units: ug/ml



Manual Integration Results

RT: 8.22
Area: 106303543
Amount: 0.086857
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

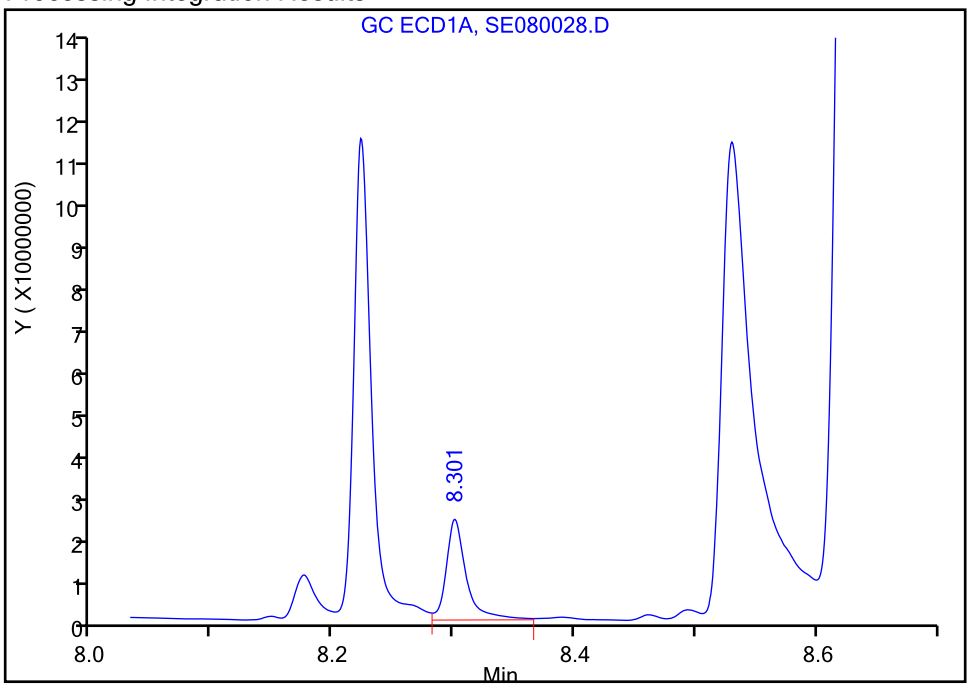
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

18 Bentazon, CAS: 25057-89-0

Signal: 1

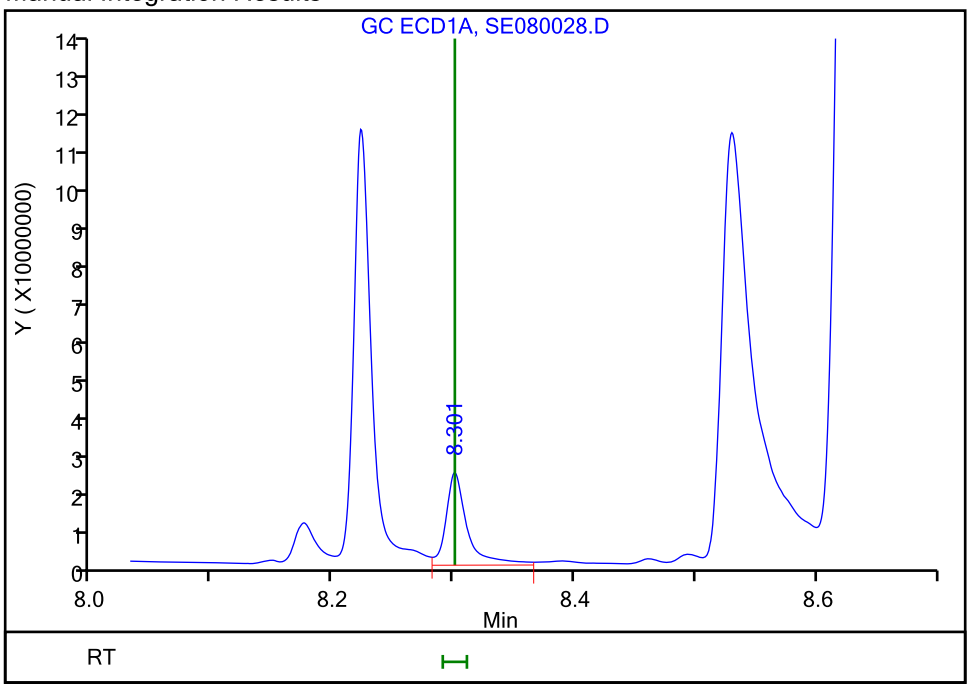
Processing Integration Results

RT: 8.30
Area: 24343283
Amount: 0.084657
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 26331660
Amount: 0.091572
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

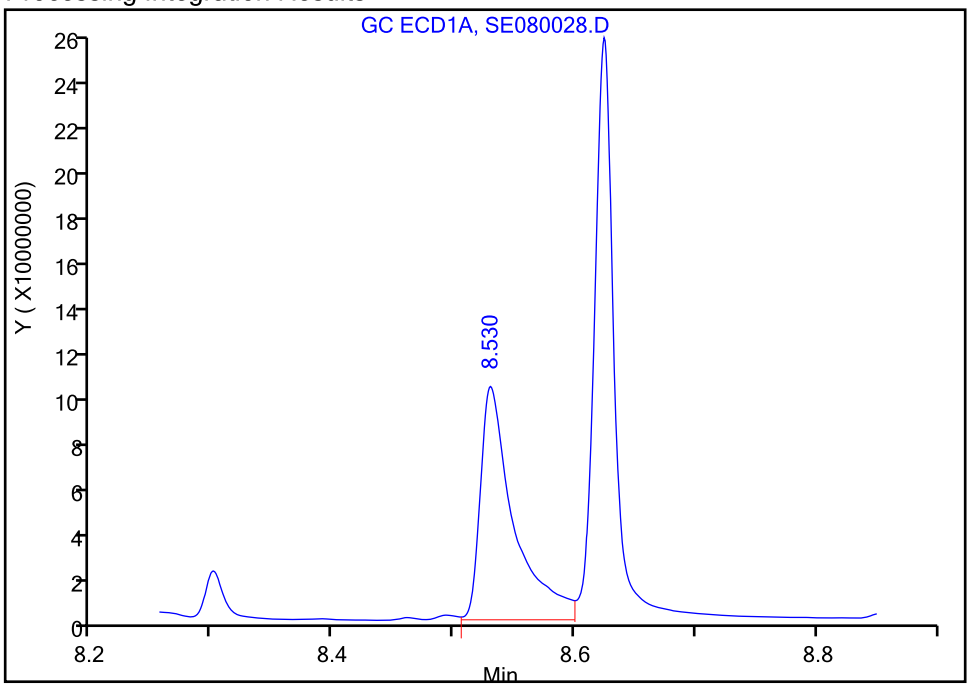
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

19 Picloram, CAS: 1918-02-1

Signal: 1

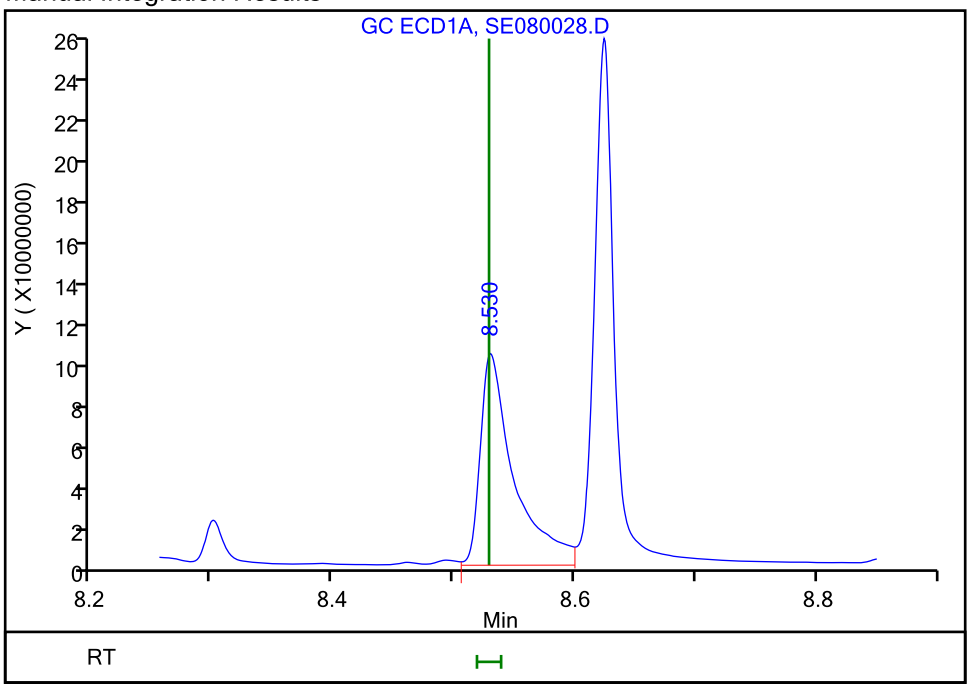
Processing Integration Results

RT: 8.53
Area: 191152812
Amount: 0.082598
Amount Units: ug/ml



Manual Integration Results

RT: 8.53
Area: 193401540
Amount: 0.083421
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

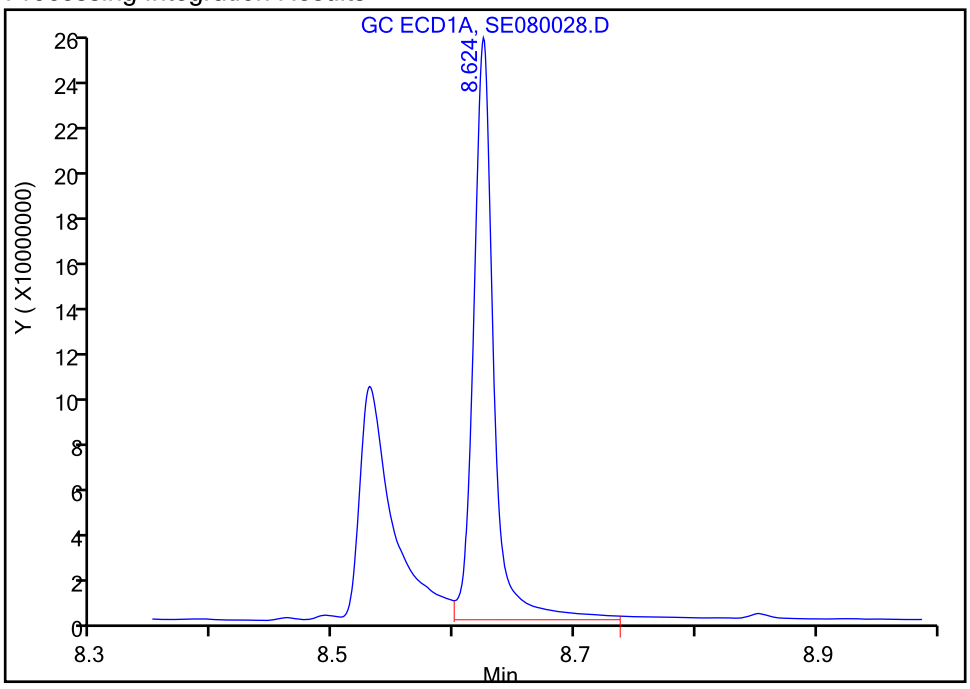
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

20 DCPA, CAS: 1861-32-1

Signal: 1

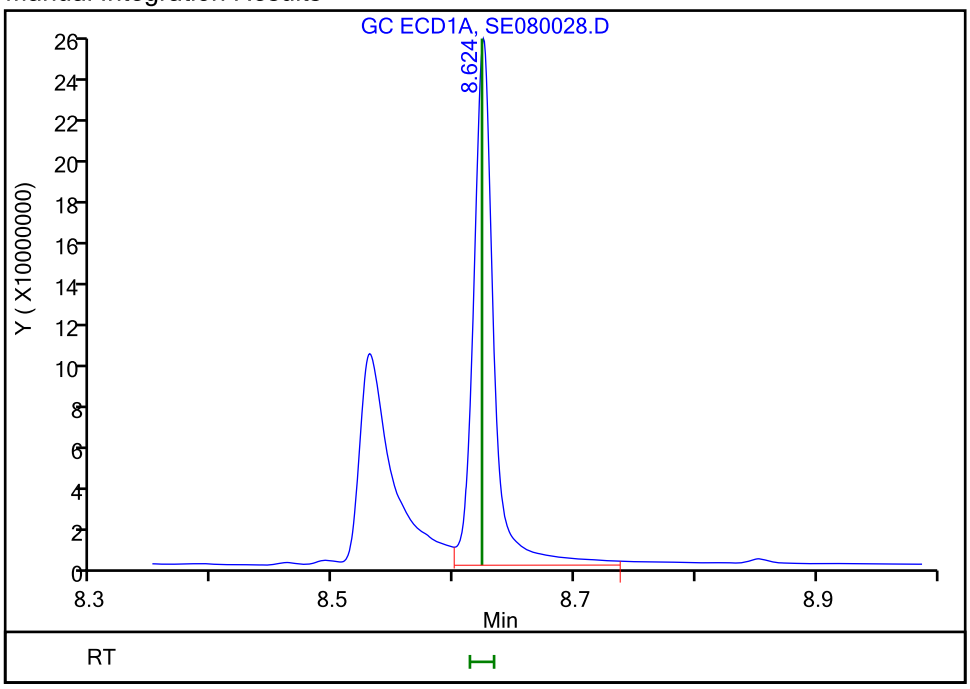
Processing Integration Results

RT: 8.62
Area: 288144985
Amount: 0.087498
Amount Units: ug/ml



Manual Integration Results

RT: 8.62
Area: 290942878
Amount: 0.088348
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

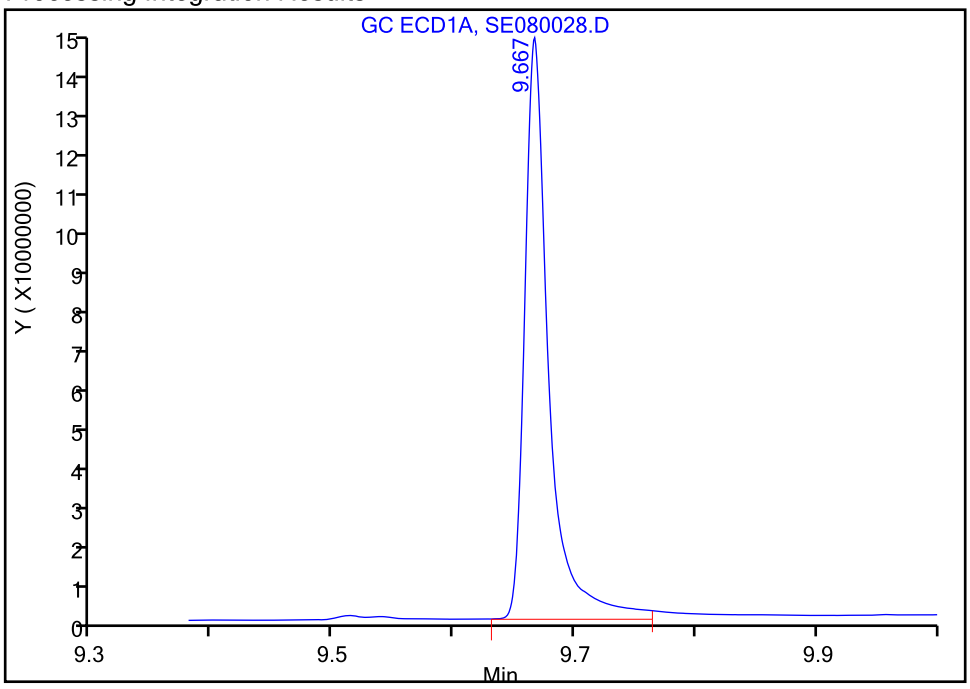
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

21 Acifluorfen, CAS: 50594-66-6

Signal: 1

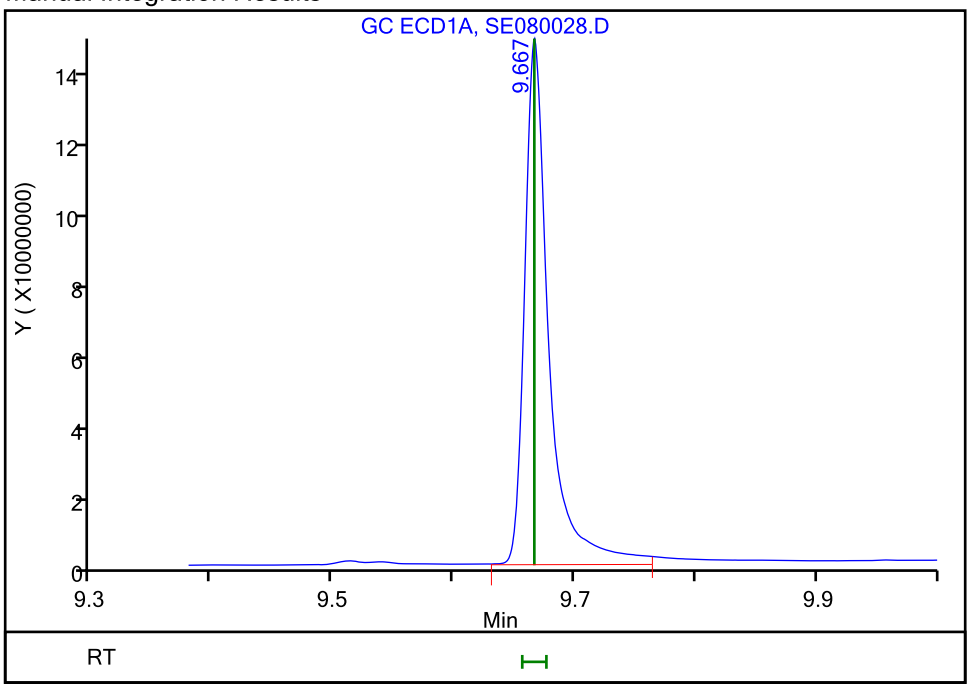
Processing Integration Results

RT: 9.67
Area: 195467381
Amount: 0.086624
Amount Units: ug/ml



Manual Integration Results

RT: 9.67
Area: 196204957
Amount: 0.086919
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1611774466	1246830710		0.0774	0.100	-22.6*	20.0
3,5-Dichlorobenzoic acid	Ave	1796964783	1468472240		0.0817	0.100	-18.3	20.0
4-Nitrophenol	Ave	299039718	261483920		0.0874	0.100	-12.6	20.0
Dicamba	Ave	5009061262	4102166040		0.0409	0.0500	-18.1	20.0
MCPP	Lin2		4258166		8.89	10.0	-11.1	20.0
MCPA	QuaF		6563030		11.6	10.0	15.7	20.0
Dichlorprop	Ave	1409813393	1172228420		0.0831	0.100	-16.9	20.0
2,4-D	Ave	1593535987	1336273560		0.0839	0.100	-16.1	20.0
Pentachlorophenol	Ave	18808678996	15992619040		0.0213	0.0250	-15.0	20.0
Silvex (2,4,5-TP)	Ave	7391322149	6239752040		0.0211	0.0250	-15.6	20.0
2,4,5-T	Ave	6646535168	5405095440		0.0203	0.0250	-18.7	20.0
Chloramben	Ave	5625509945	4579695330		0.0814	0.100	-18.6	20.0
Dinoseb	Lin1		3102768450		0.0737	0.100	-26.3*	20.0
2,4-DB	Ave	986290097	916372090		0.0929	0.100	-7.1	20.0
Bentazon	Ave	803969083	674921560		0.0839	0.100	-16.1	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	9821124803	8428414340		0.0858	0.100	-14.2	20.0
Picloram	Lin1		6868819520		0.0704	0.100	-29.6*	20.0
Acifluorfen	Qua		5380410960		0.0817	0.100	-18.3	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1407755771	1161179490		0.0825	0.100	-17.5	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.63	2.61	2.65
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.51	6.50	6.52
Dicamba	6.91	6.90	6.92
MCPP	6.96	6.95	6.97
MCPA	7.15	7.15	7.17
Dichlorprop	7.30	7.29	7.31
2,4-D	7.52	7.51	7.53
Pentachlorophenol	7.71	7.70	7.72
Silvex (2,4,5-TP)	7.85	7.84	7.86
2,4,5-T	8.08	8.07	8.09
Chloramben	8.16	8.15	8.17
Dinoseb	8.25	8.24	8.26
2,4-DB	8.30	8.29	8.31
Bentazon	8.66	8.65	8.67
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	8.77	8.79
Picloram	9.01	9.00	9.02
Acifluorfen	9.79	9.78	9.80
2,4-Dichlorophenylacetic acid (Surr)	6.83	6.82	6.84

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 21:40:11 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-028
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:37:48 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:21:29

	Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Dalapon							
	1	2.578	2.579	-0.001	40734619	0.1000	0.0777	
	2	2.632	2.632	0.000	124683071	0.1000	0.0774	
							RPD = 0.48	
	2 2,6-Dichlorophenol							
	1	5.016	5.015	0.001	8885882	NC	NC	
	2	5.102	5.102	0.000	45742372	NC	NC	
							RPD = 7.11	
	3 2,4,6-Trichlorophenol							
	1	5.787	5.786	0.001	104333704	NC	NC	
	2	5.776	5.776	0.000	435611631	NC	NC	
							RPD = 2.76	
	4 3,5-Dichlorobenzoic acid							
	1	6.123	6.124	-0.001	28317334	0.1000	0.0881	
	2	6.116	6.116	0.000	146847224	0.1000	0.0817	
							RPD = 7.52	
	5 4-Nitrophenol							
	1	6.252	6.253	-0.001	9190153	0.1000	0.0994	
	2	6.505	6.505	0.000	26148392	0.1000	0.0874	
							RPD = 12.80	
$	6 2,4-Dichlorophenylacetic acid							M
	1	6.683	6.683	0.000	18377296	0.1000	0.0869	M
	2	6.828	6.829	-0.001	116117949	0.1000	0.0825	M
							RPD = 5.21	
	7 Dicamba							M
	1	6.720	6.720	0.000	46122338	0.0500	0.0428	M
	2	6.911	6.910	0.001	205108302	0.0500	0.0409	M
							RPD = 4.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	4690034	10.0	9.85	M
2	6.956	6.955	0.001	42581663	10.0	8.89	M
						RPD = 10.31	
9 MCPA							M
1	6.994	6.994	0.000	9354886	10.0	10.1	M
2	7.153	7.155	-0.002	65630302	10.0	11.6	M
						RPD = 13.55	
10 Dichlorprop							M
1	7.180	7.180	0.000	25840205	0.1000	0.0931	M
2	7.297	7.297	0.000	117222842	0.1000	0.0831	M
						RPD = 11.31	
11 2,4-D							M
1	7.327	7.326	0.001	27939986	0.1000	0.0924	M
2	7.517	7.517	0.000	133627356	0.1000	0.0839	M
						RPD = 9.69	
12 Pentachlorophenol							M
1	7.673	7.674	-0.001	115836502	0.0250	0.0215	M
2	7.713	7.714	-0.001	399815476	0.0250	0.0213	M
						RPD = 1.21	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	41916828	0.0250	0.0223	M
2	7.847	7.846	0.001	155993801	0.0250	0.0211	M
						RPD = 5.56	
14 Chloramben							M
1	7.857	7.855	0.002	120589270	0.1000	0.0819	M
2	8.162	8.162	0.000	457969533	0.1000	0.0814	M
						RPD = 0.55	
15 2,4,5-T							M
1	7.929	7.929	0.000	50606060	0.0250	0.0231	M
2	8.083	8.083	0.000	135127386	0.0250	0.0203	M
						RPD = 12.61	
16 2,4-DB							M
1	8.176	8.175	0.001	13148444	0.1000	0.0888	M
2	8.302	8.302	0.000	91637209	0.1000	0.0929	M
						RPD = 4.51	
17 Dinoseb							M
1	8.222	8.224	-0.002	106303543	0.1000	0.0869	M
2	8.248	8.248	0.000	310276845	0.1000	0.0737	M
						RPD = 16.39	
18 Bentazon							M
1	8.301	8.300	0.001	26331660	0.1000	0.0916	M
2	8.663	8.662	0.001	67492156	0.1000	0.0839	M
						RPD = 8.69	
19 Picloram							M
1	8.530	8.529	0.001	193401540	0.1000	0.0834	M
2	9.007	9.005	0.002	686881952	0.1000	0.0704	M
						RPD = 16.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	290942878	0.1000	0.0883	M
2	8.777	8.775	0.002	842841434	0.1000	0.0858	M
						RPD = 2.90	
21 Acifluorfen							M
1	9.667	9.666	0.001	196204957	0.1000	0.0869	M
2	9.793	9.792	0.001	538041096	0.1000	0.0817	
						RPD = 6.20	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

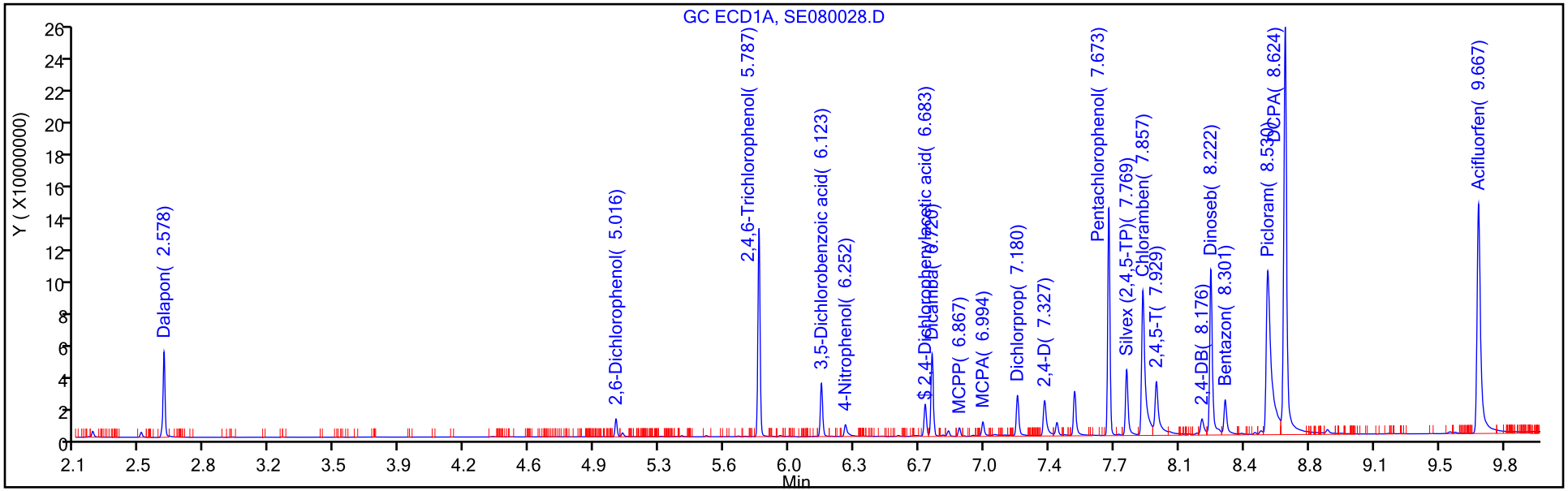
Report Date: 09-May-2018 09:37:56 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

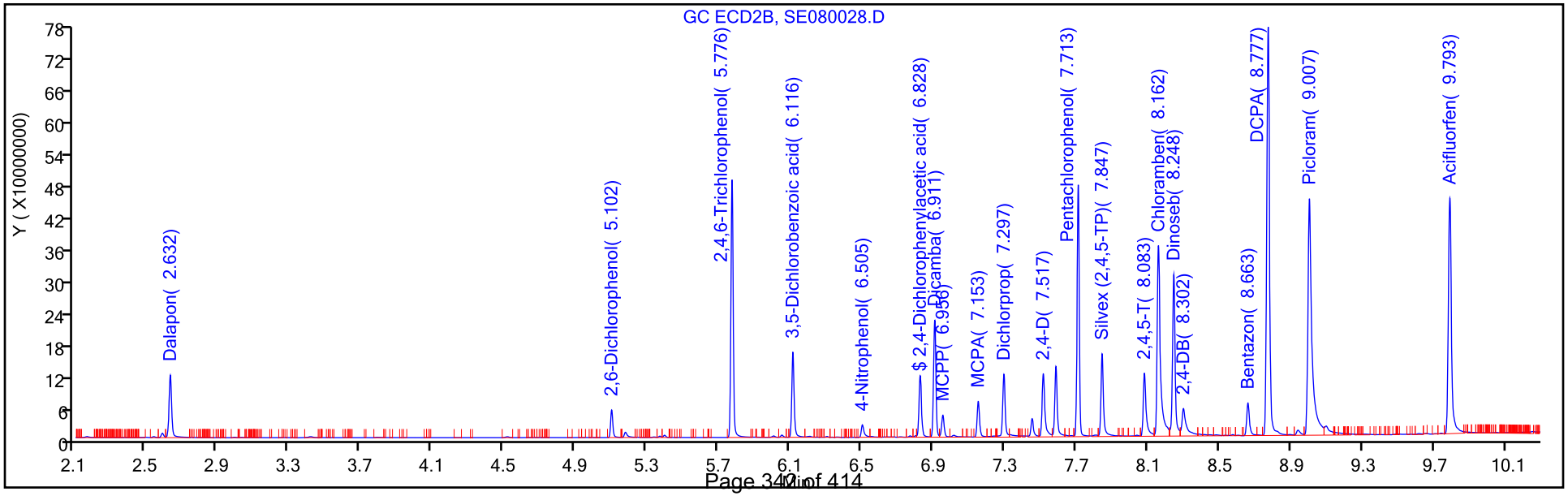
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

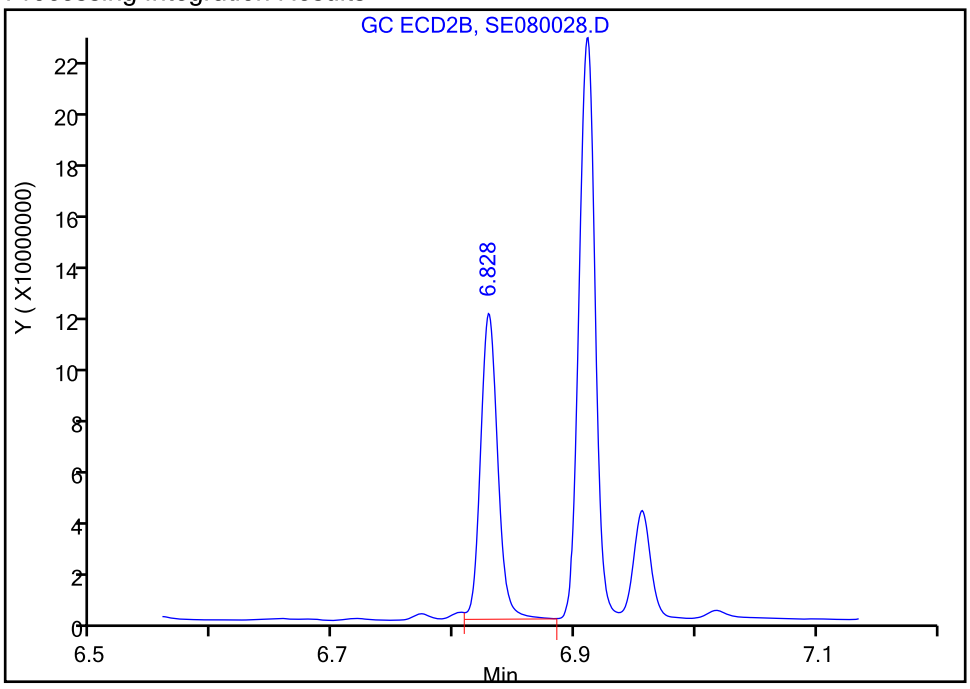
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

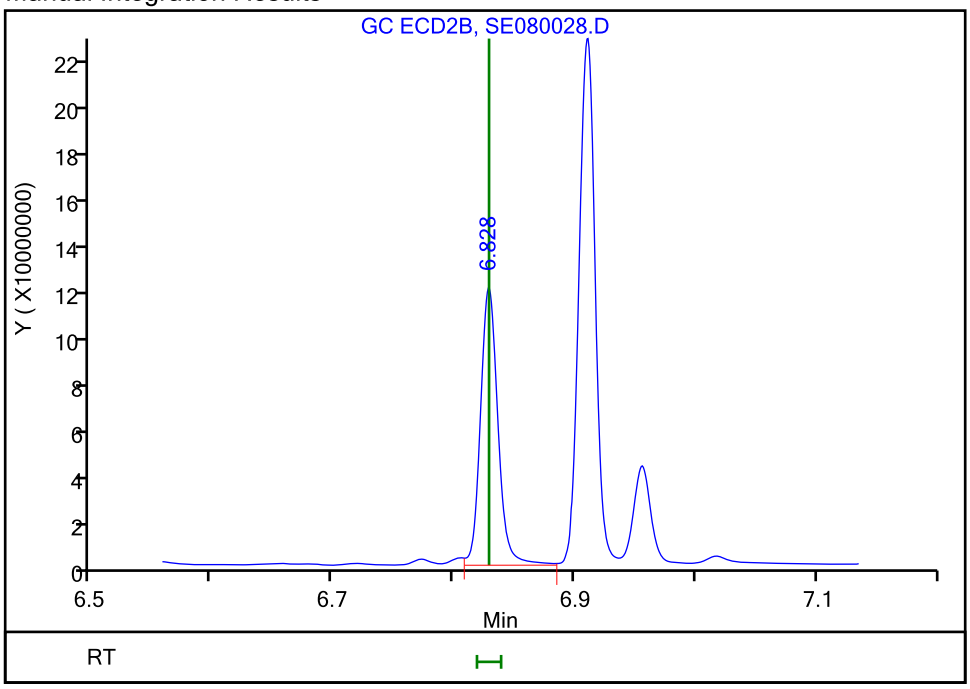
Processing Integration Results

RT: 6.83
Area: 113880445
Amount: 0.080895
Amount Units: ug/ml



Manual Integration Results

RT: 6.83
Area: 116117949
Amount: 0.082484
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

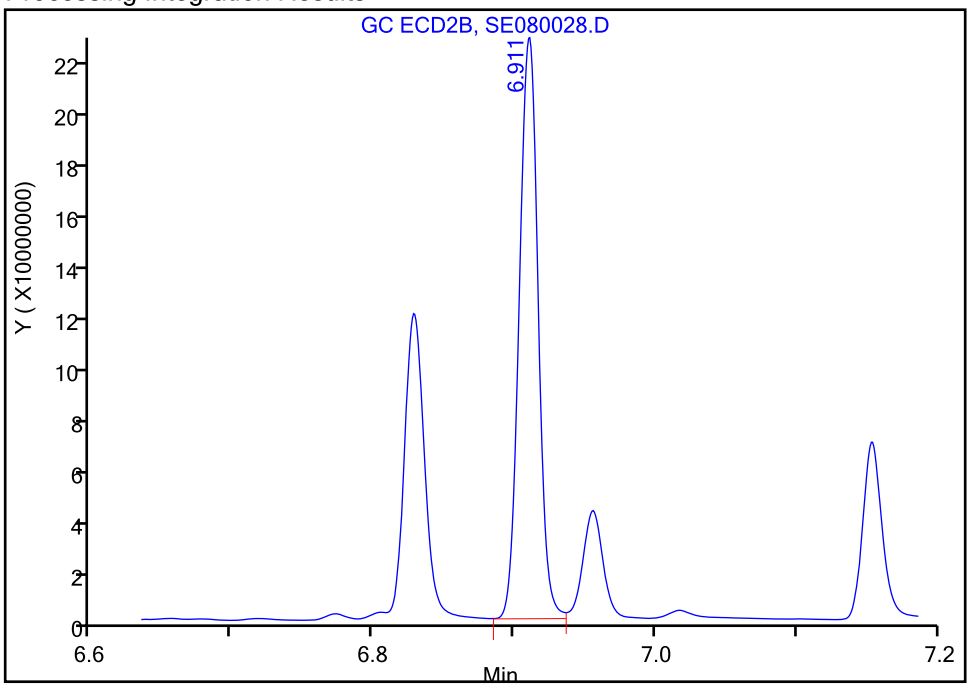
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Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

7 Dicamba, CAS: 1918-00-9

Signal: 2

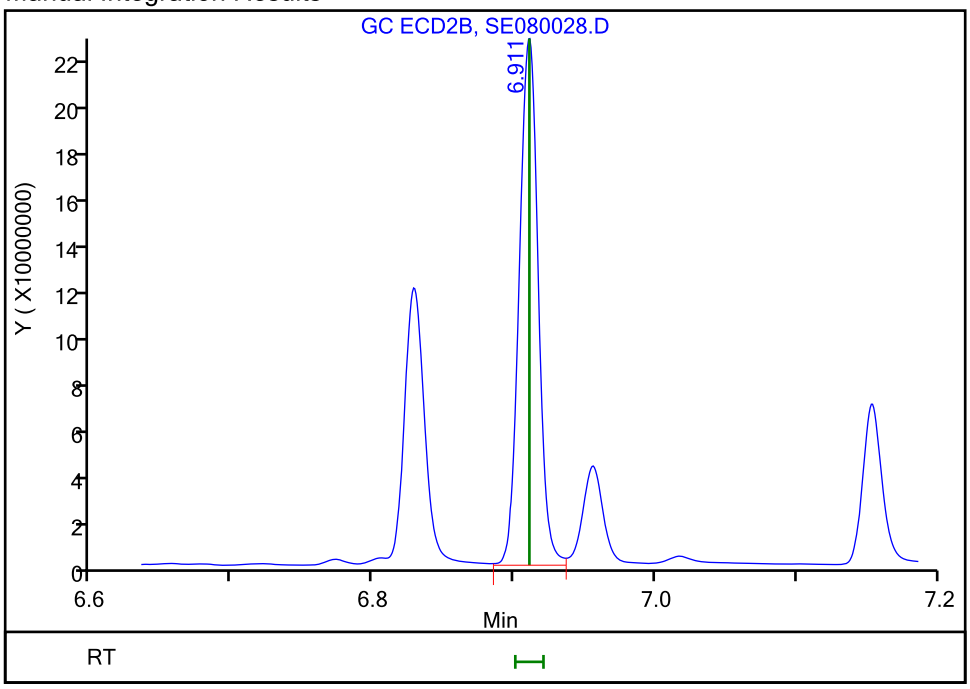
Processing Integration Results

RT: 6.91
Area: 203232530
Amount: 0.040573
Amount Units: ug/ml



Manual Integration Results

RT: 6.91
Area: 205108302
Amount: 0.040947
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

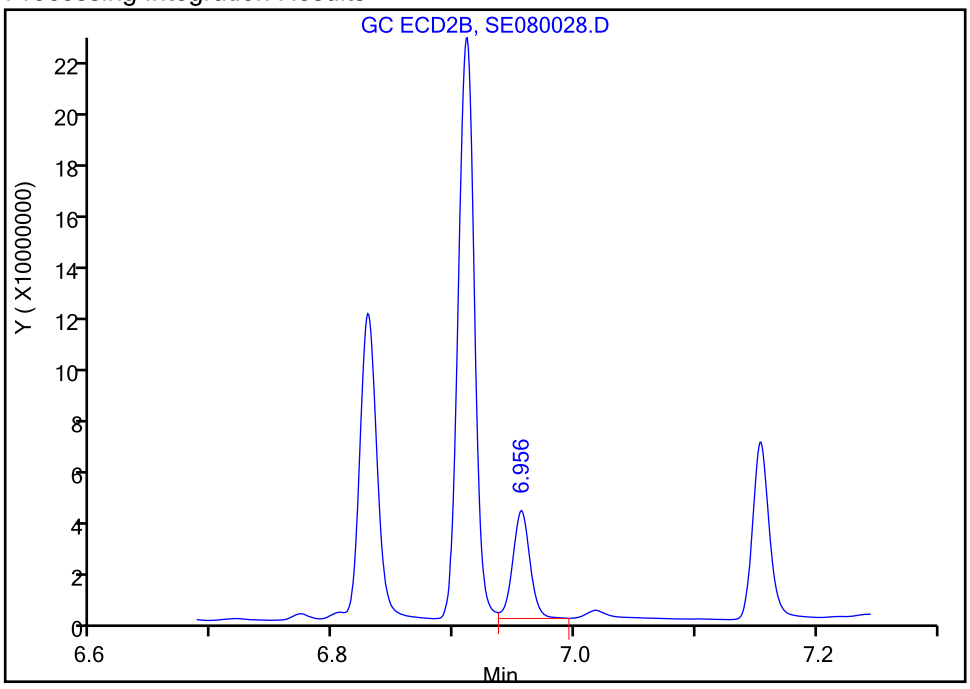
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Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

8 MCPP, CAS: 93-65-2

Signal: 2

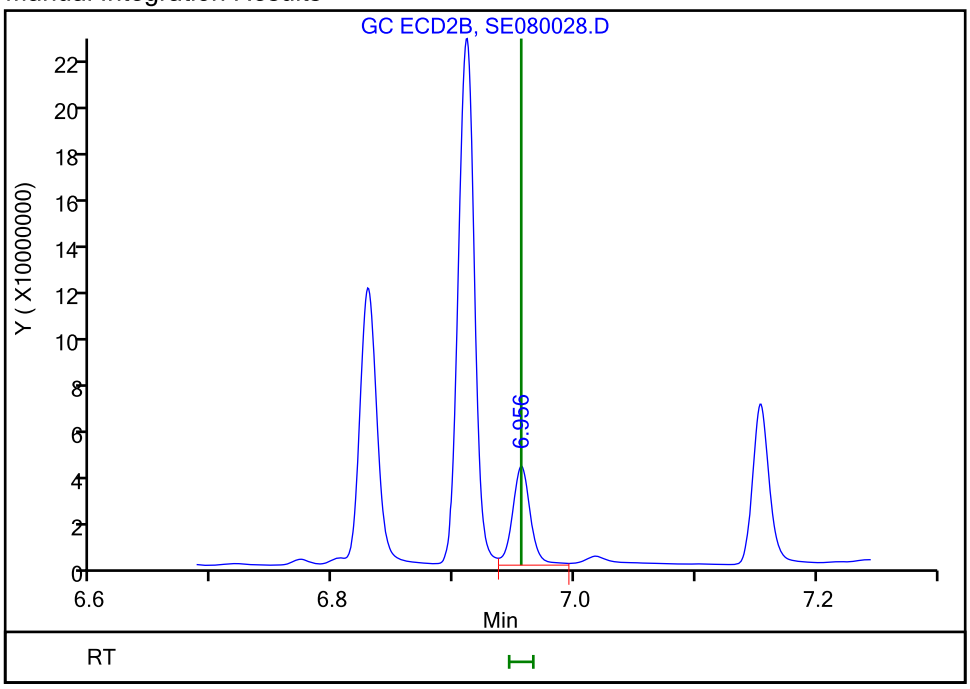
Processing Integration Results

RT: 6.96
Area: 40241793
Amount: 8.351331
Amount Units: ug/ml



Manual Integration Results

RT: 6.96
Area: 42581663
Amount: 8.887386
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

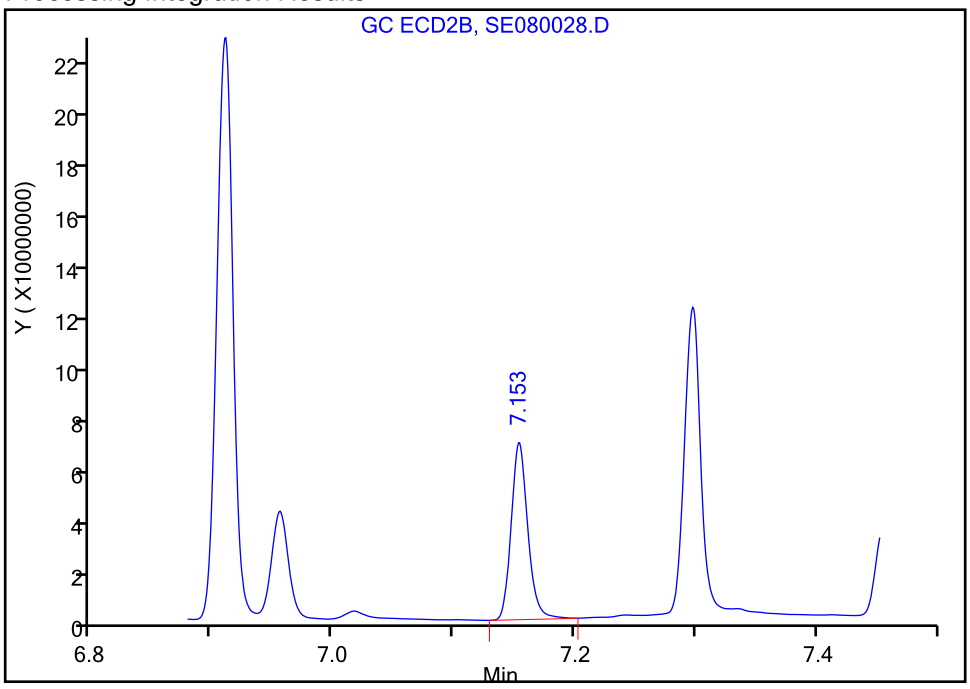
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

9 MCPA, CAS: 94-74-6

Signal: 2

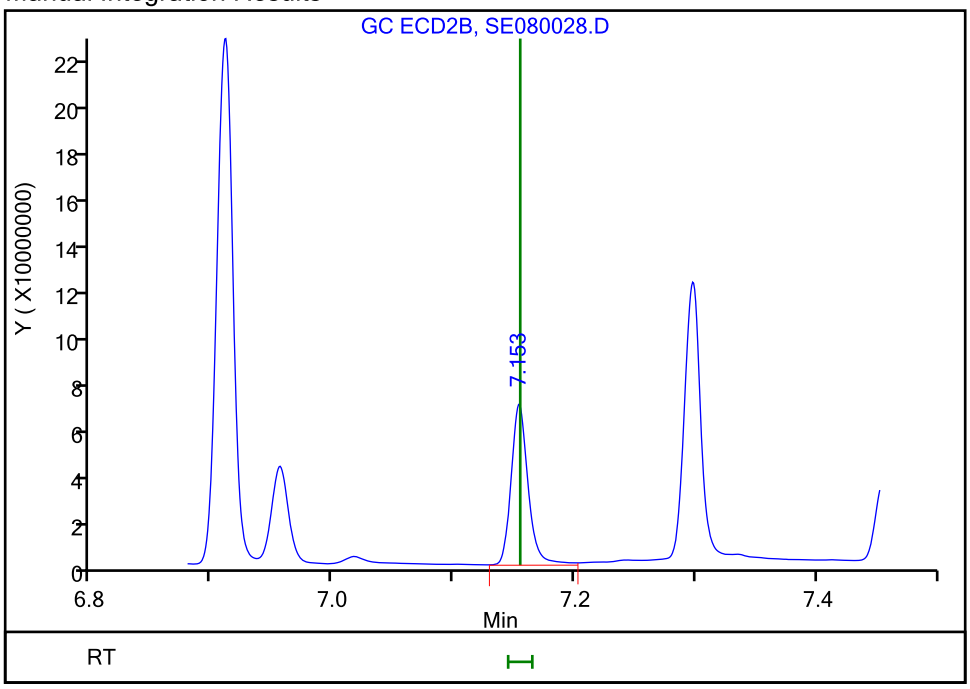
Processing Integration Results

RT: 7.15
Area: 63346761
Amount: 11.214387
Amount Units: ug/ml



Manual Integration Results

RT: 7.15
Area: 65630302
Amount: 11.570777
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

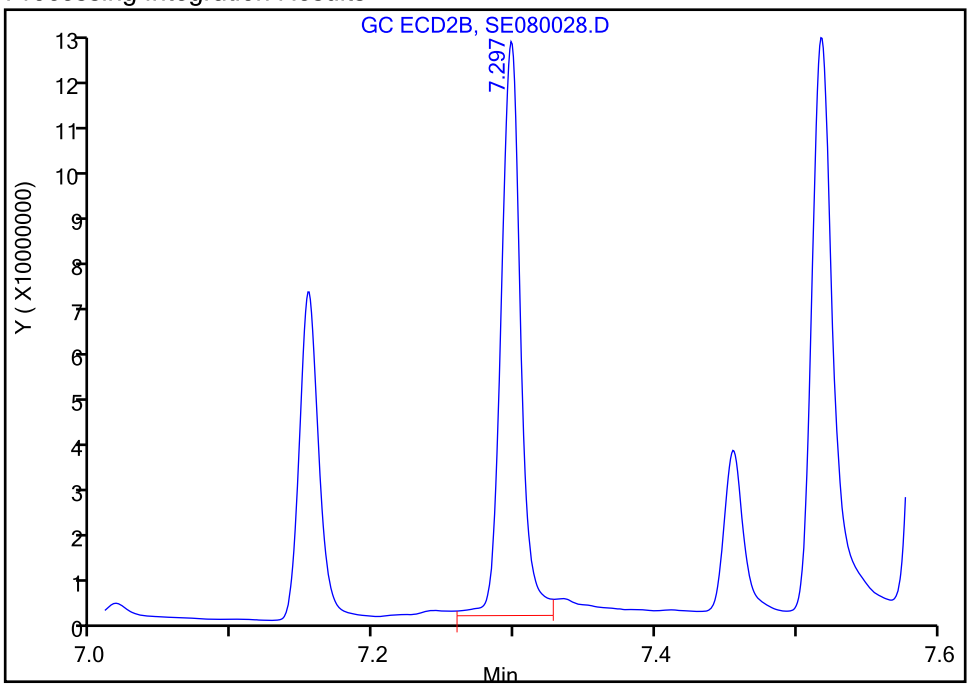
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

10 Dichlorprop, CAS: 120-36-5

Signal: 2

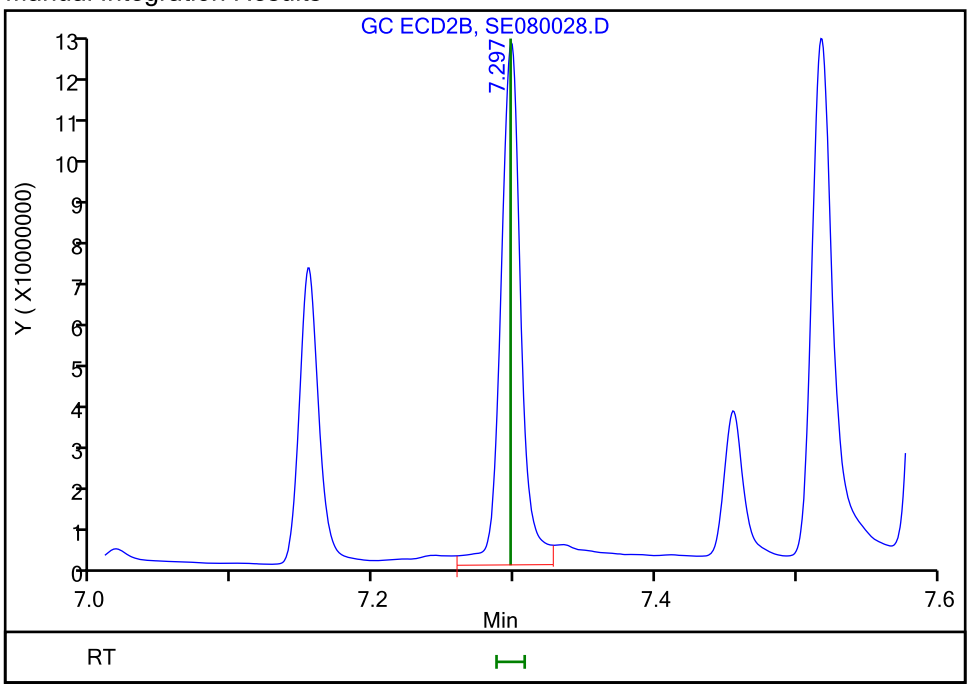
Processing Integration Results

RT: 7.30
Area: 112626711
Amount: 0.079888
Amount Units: ug/ml



Manual Integration Results

RT: 7.30
Area: 117222842
Amount: 0.083148
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

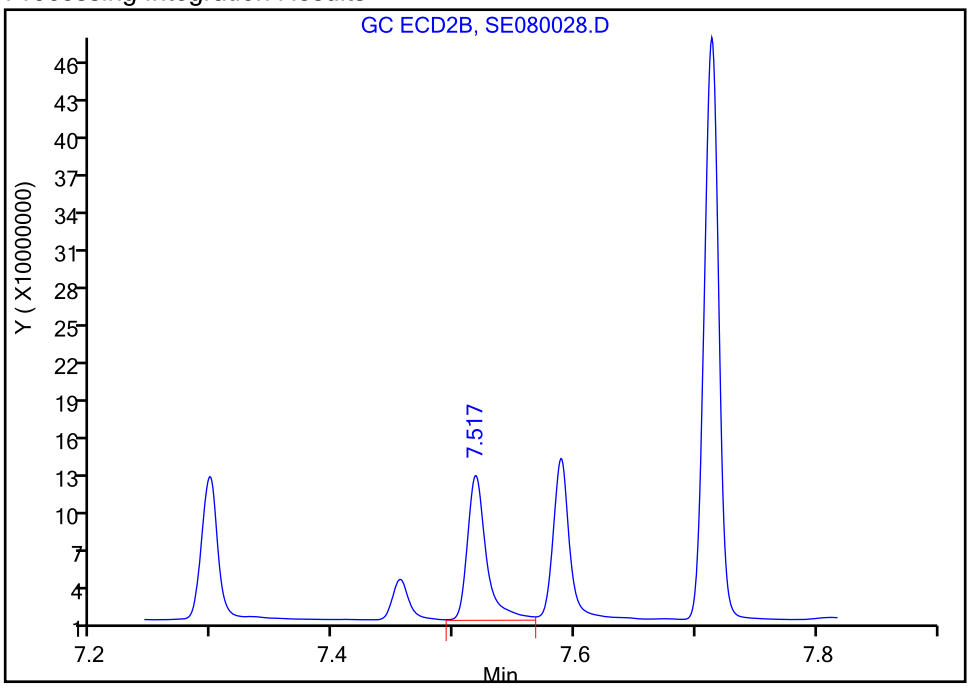
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Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

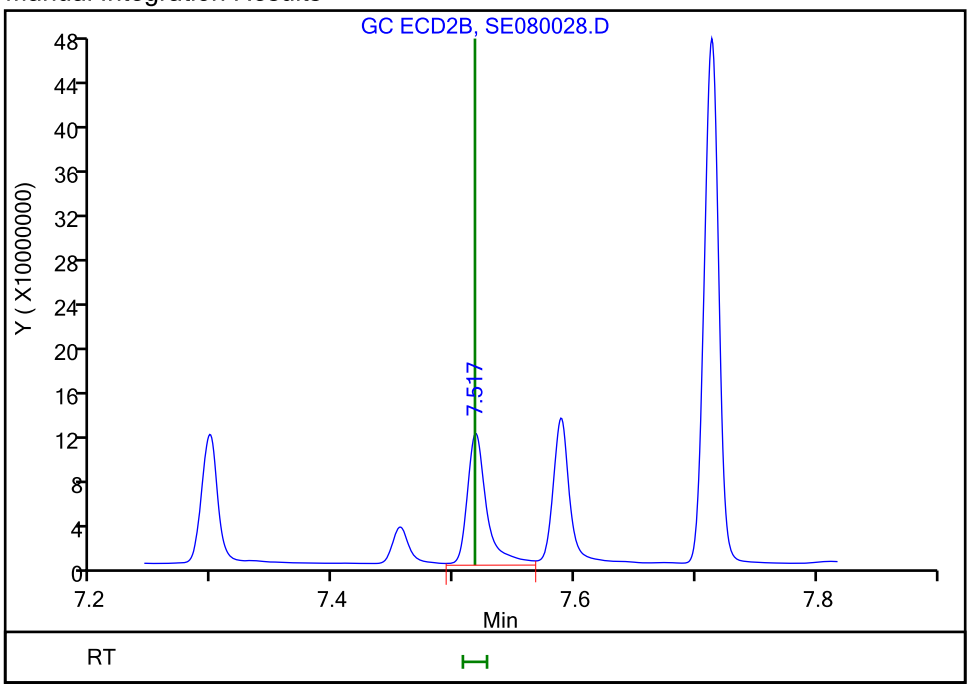
Processing Integration Results

RT: 7.52
Area: 128784842
Amount: 0.080817
Amount Units: ug/ml



Manual Integration Results

RT: 7.52
Area: 133627356
Amount: 0.083856
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

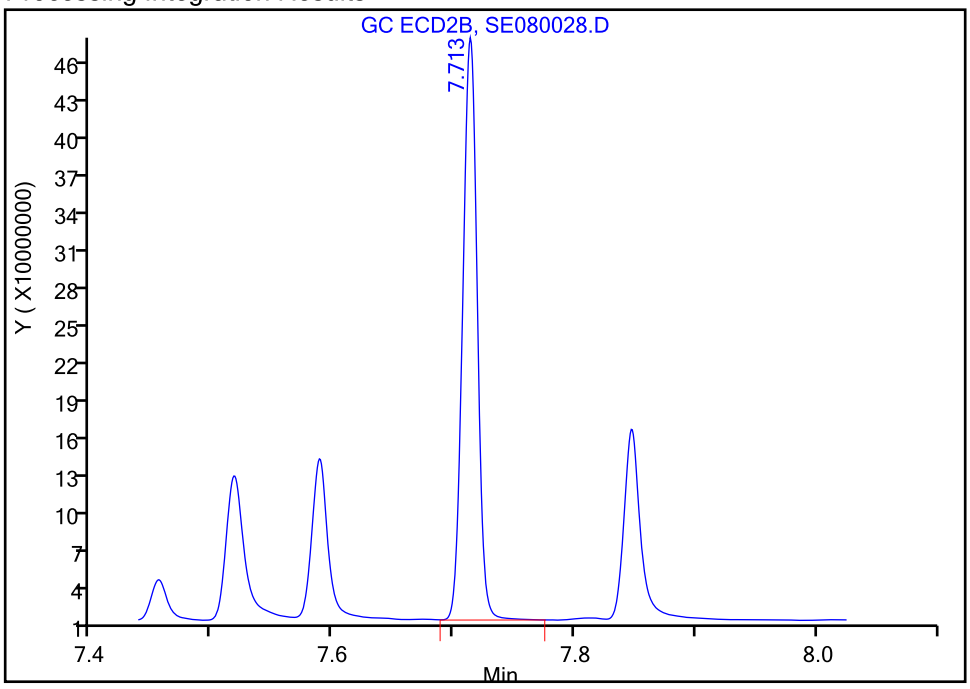
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

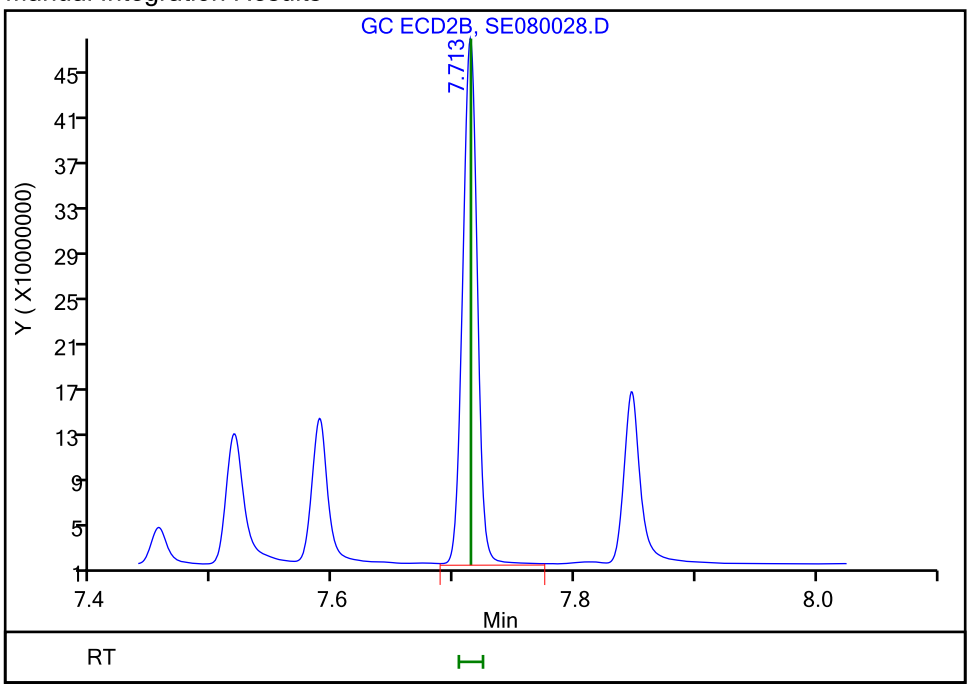
Processing Integration Results

RT: 7.71
Area: 393349149
Amount: 0.020913
Amount Units: ug/ml



Manual Integration Results

RT: 7.71
Area: 399815476
Amount: 0.021257
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

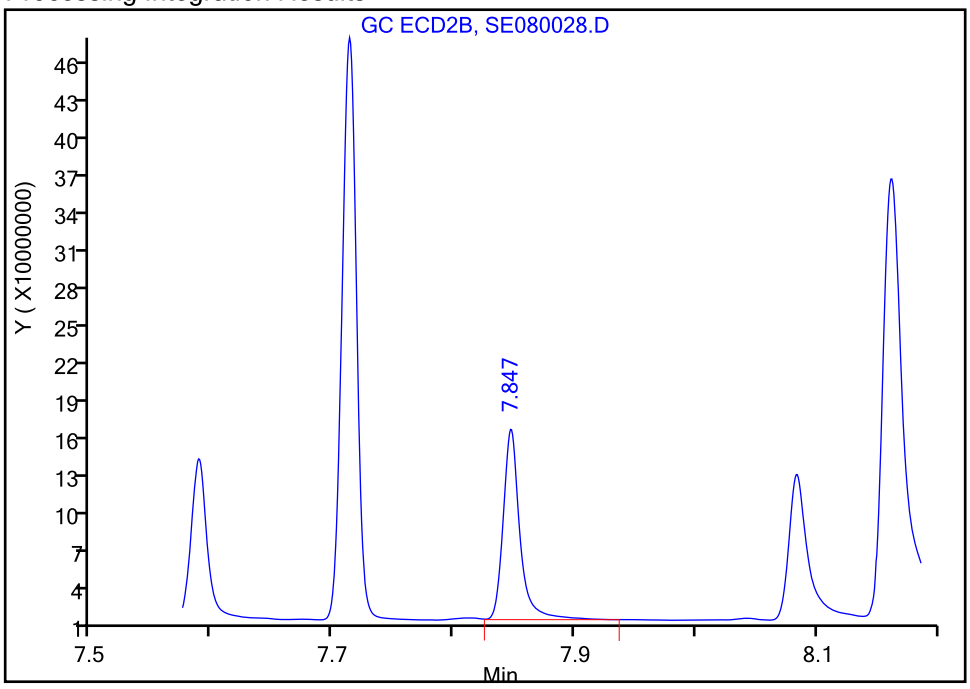
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

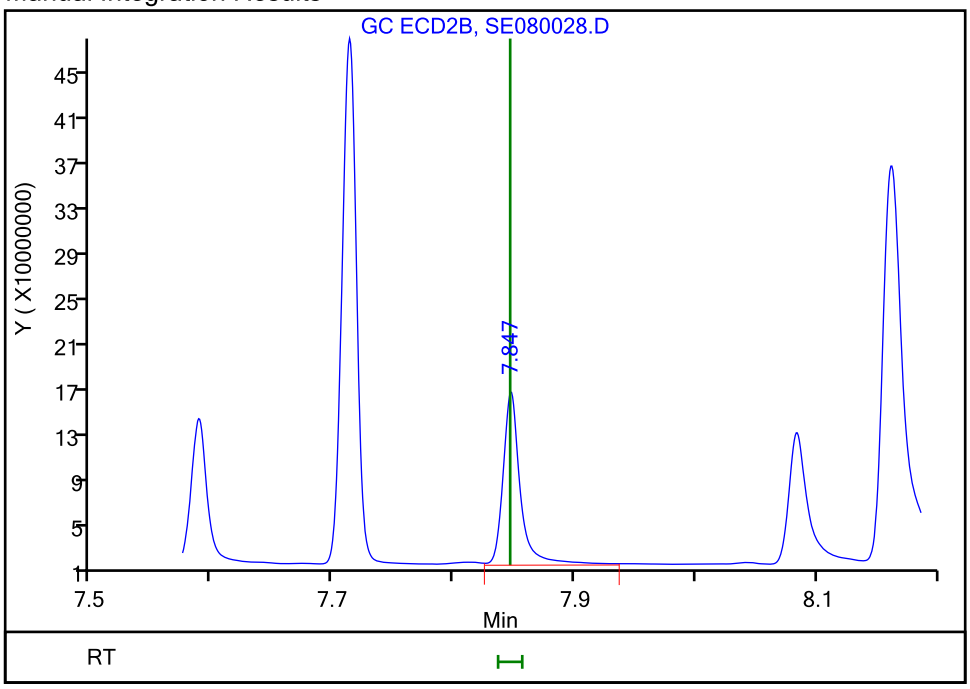
Processing Integration Results

RT: 7.85
Area: 147739565
Amount: 0.019988
Amount Units: ug/ml



Manual Integration Results

RT: 7.85
Area: 155993801
Amount: 0.021105
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

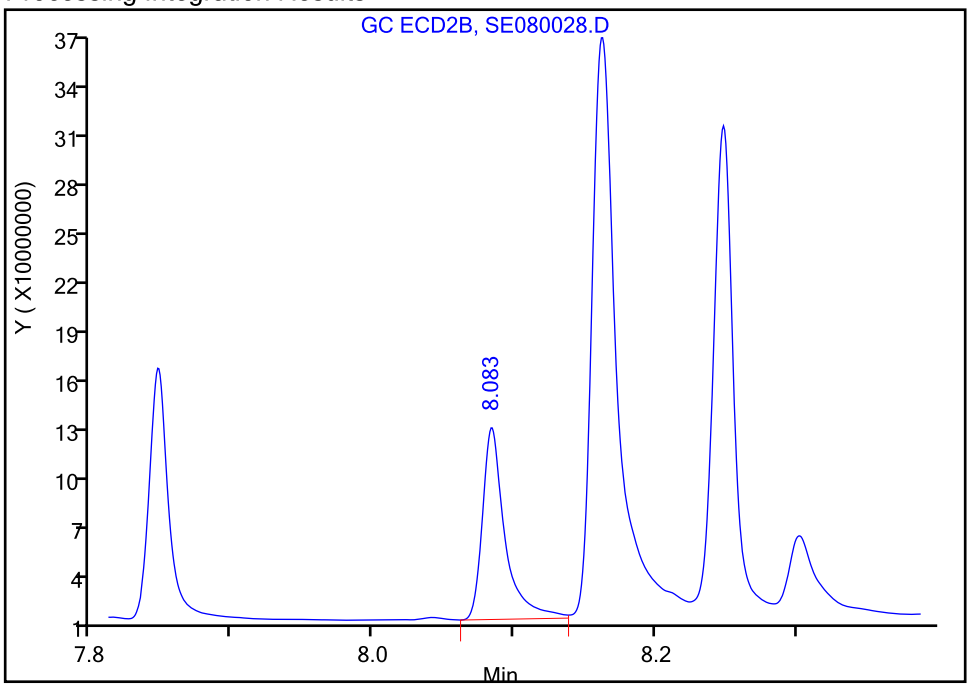
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Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

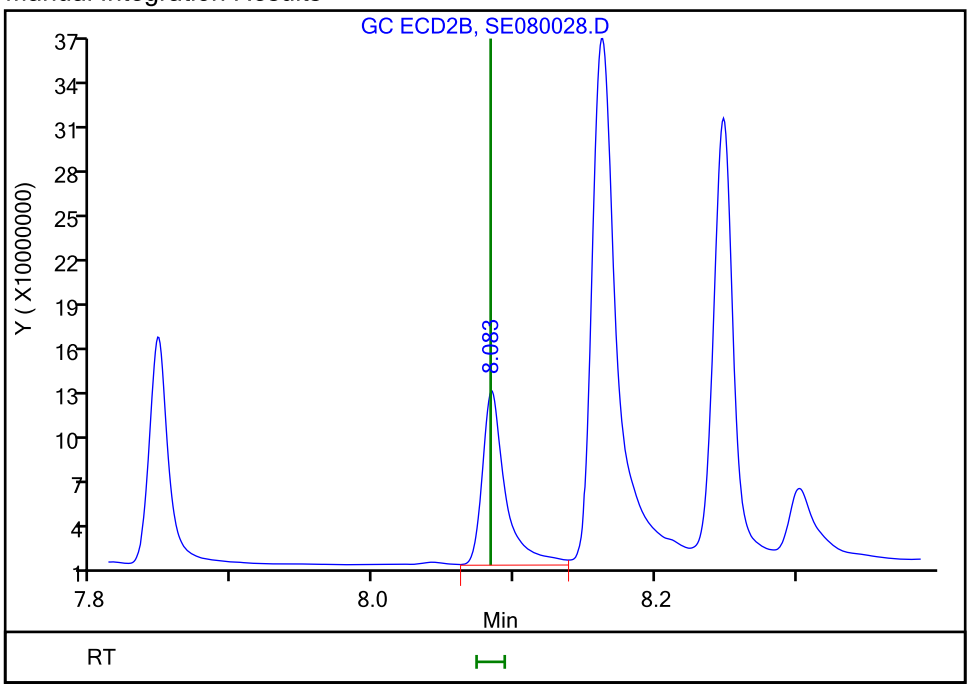
Processing Integration Results

RT: 8.08
Area: 130590316
Amount: 0.019648
Amount Units: ug/ml



Manual Integration Results

RT: 8.08
Area: 135127386
Amount: 0.020331
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

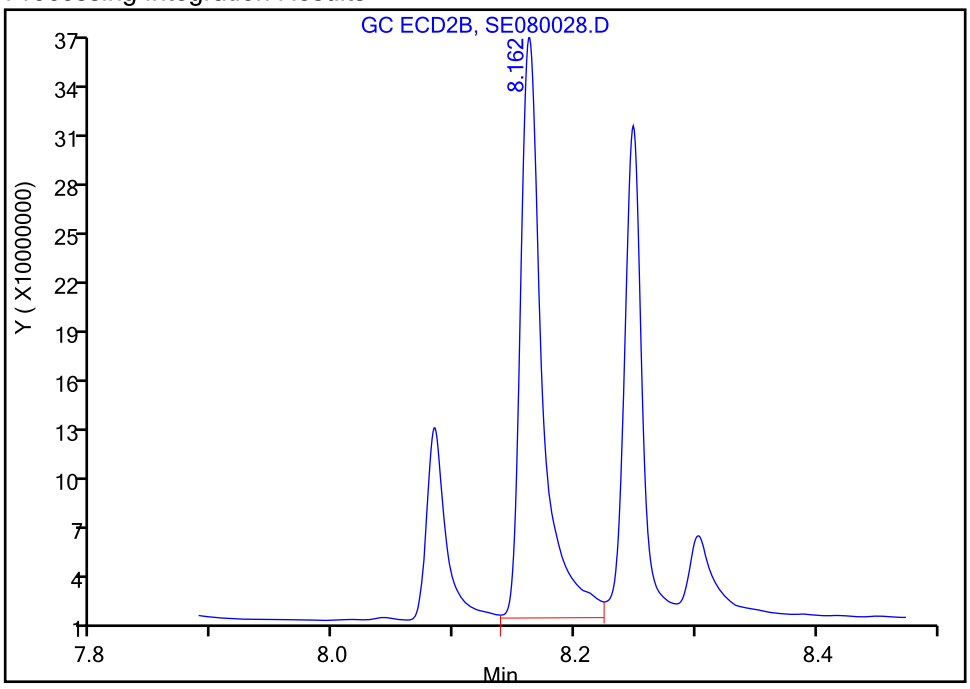
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

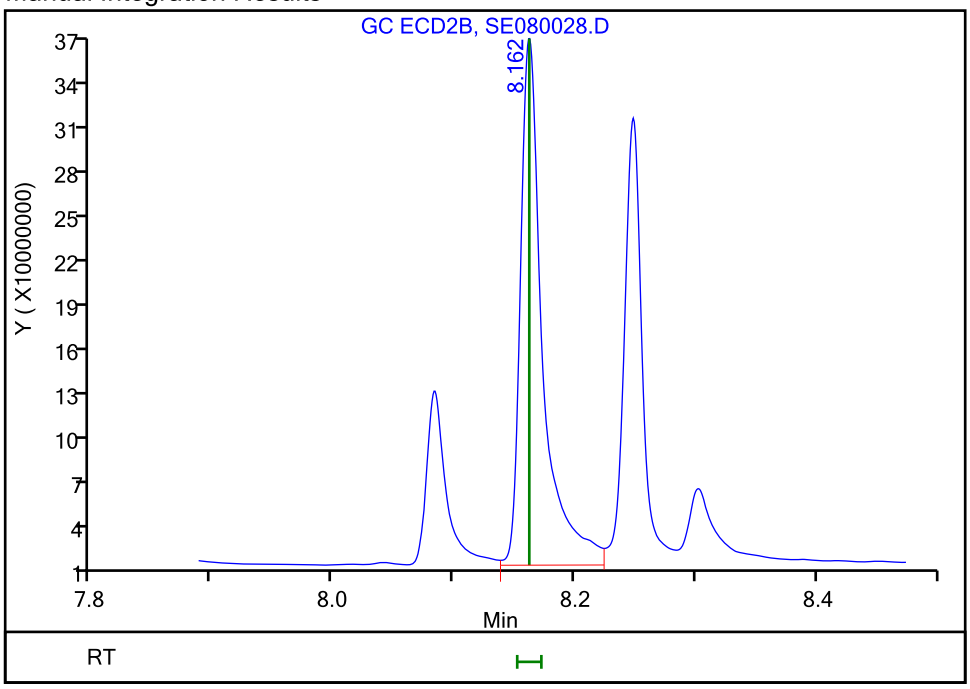
Processing Integration Results

RT: 8.16
Area: 449929024
Amount: 0.079980
Amount Units: ug/ml



Manual Integration Results

RT: 8.16
Area: 457969533
Amount: 0.081409
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

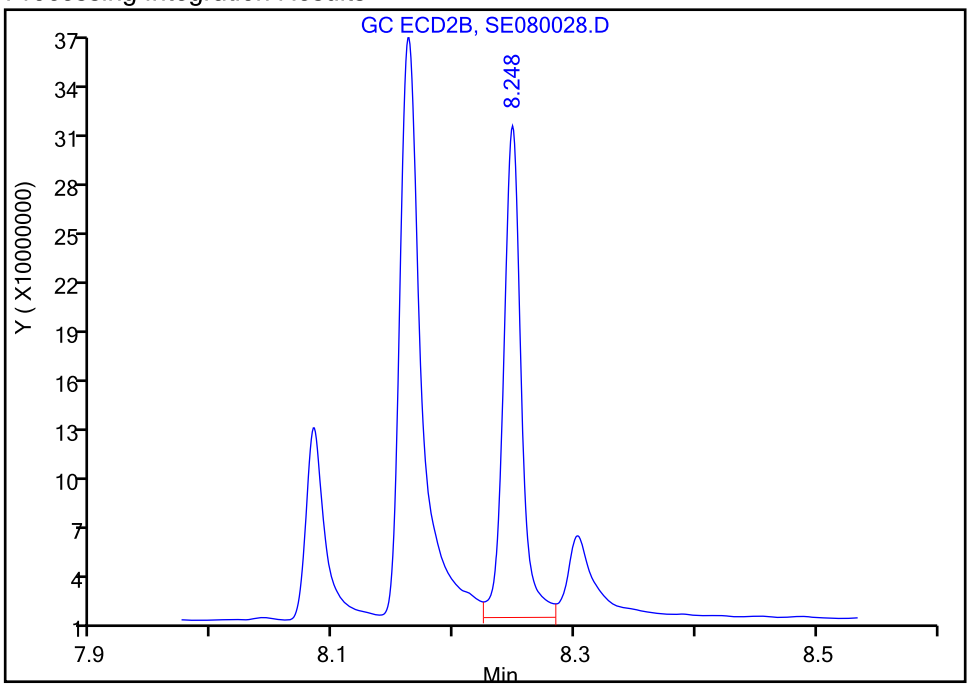
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

17 Dinoseb, CAS: 88-85-7

Signal: 2

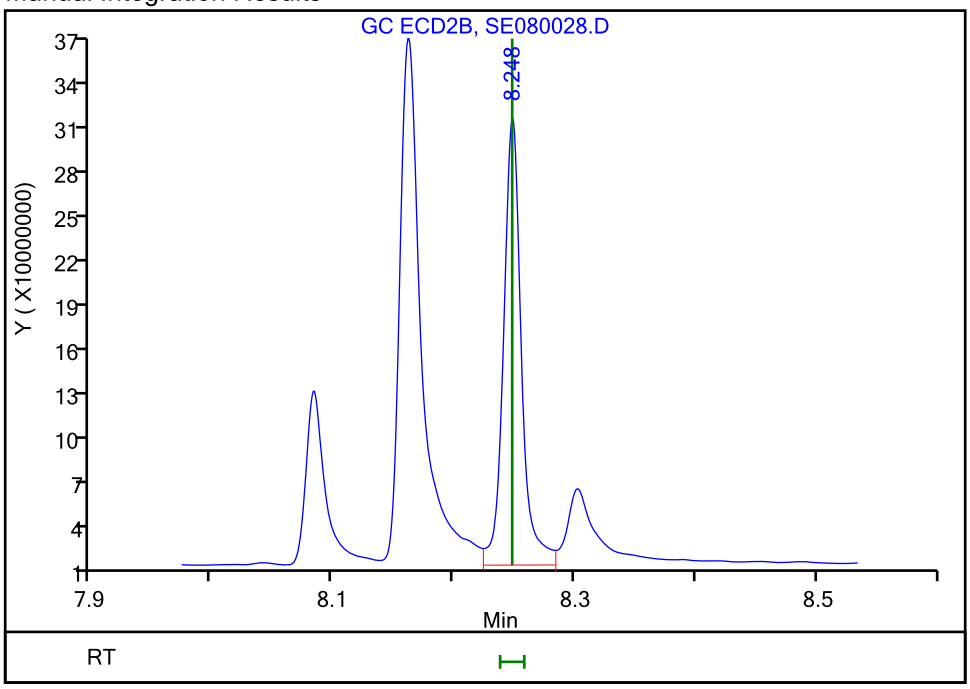
Processing Integration Results

RT: 8.25
Area: 304317252
Amount: 0.072411
Amount Units: ug/ml



Manual Integration Results

RT: 8.25
Area: 310276845
Amount: 0.073697
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

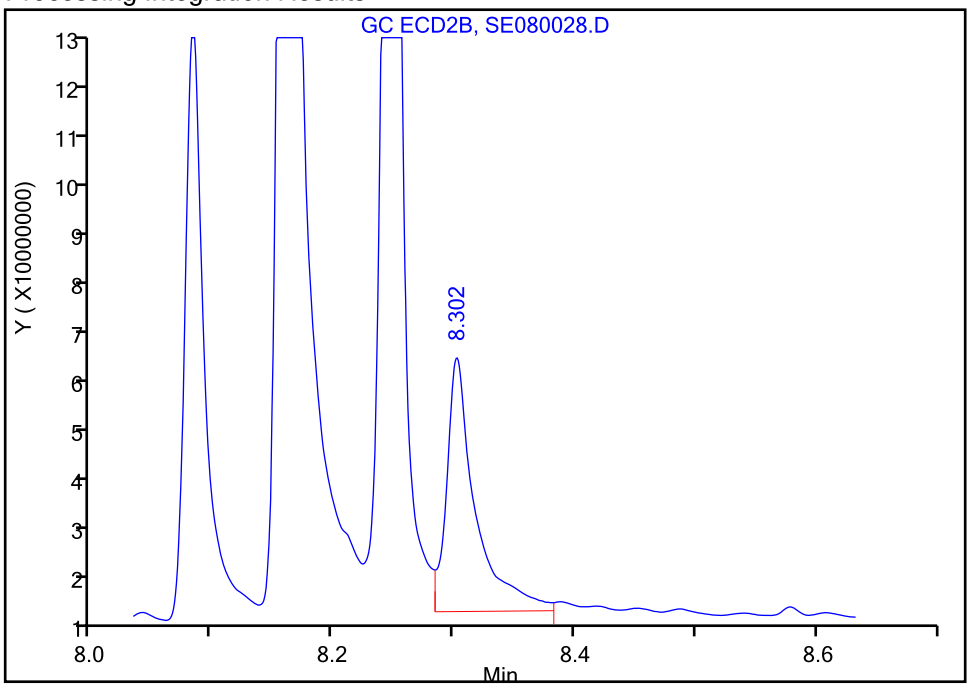
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

16 2,4-DB, CAS: 94-82-6

Signal: 2

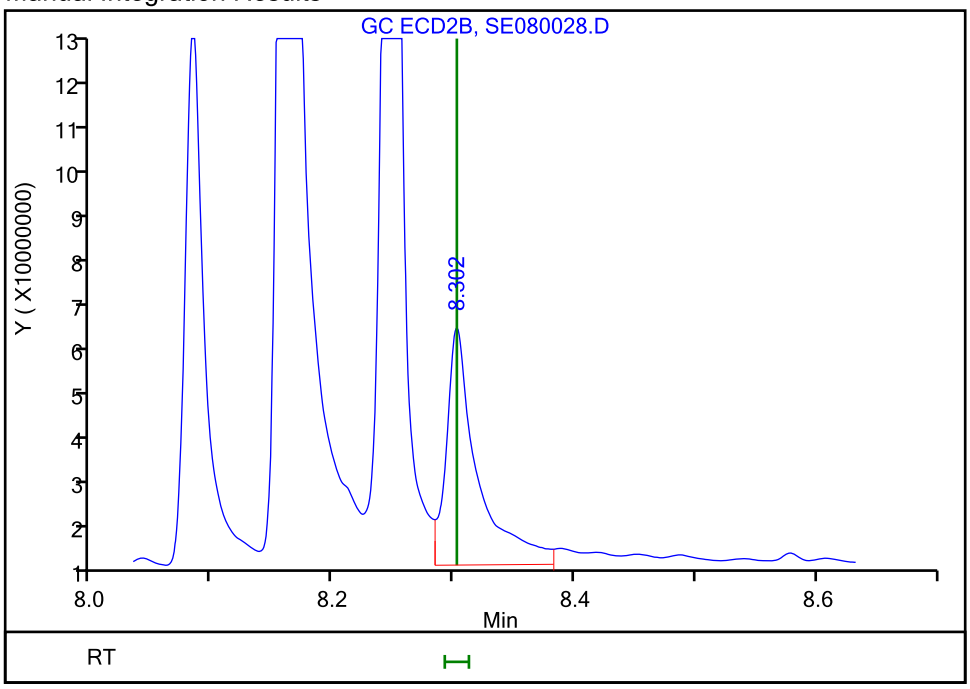
Processing Integration Results

RT: 8.30
Area: 81650887
Amount: 0.082786
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 91637209
Amount: 0.092911
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

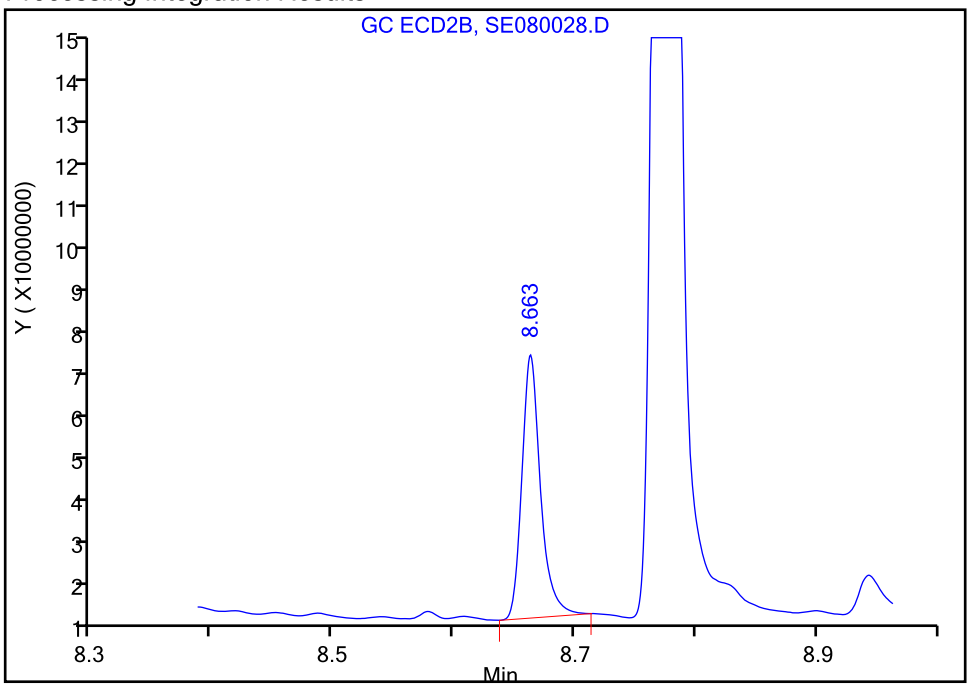
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

18 Bentazon, CAS: 25057-89-0

Signal: 2

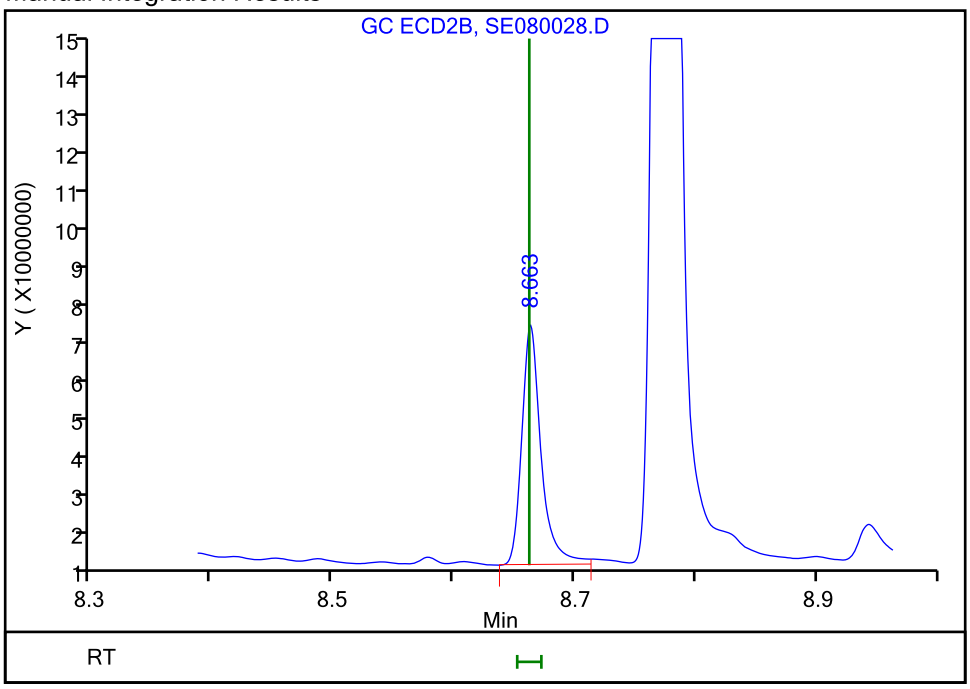
Processing Integration Results

RT: 8.66
Area: 64993171
Amount: 0.080840
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 67492156
Amount: 0.083949
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

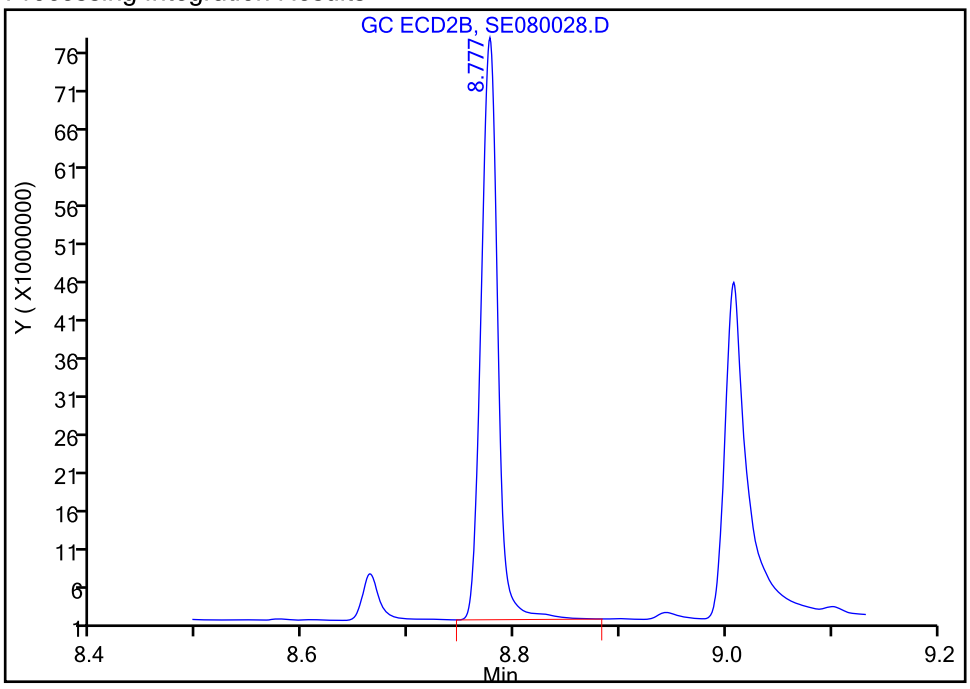
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

20 DCPA, CAS: 1861-32-1

Signal: 2

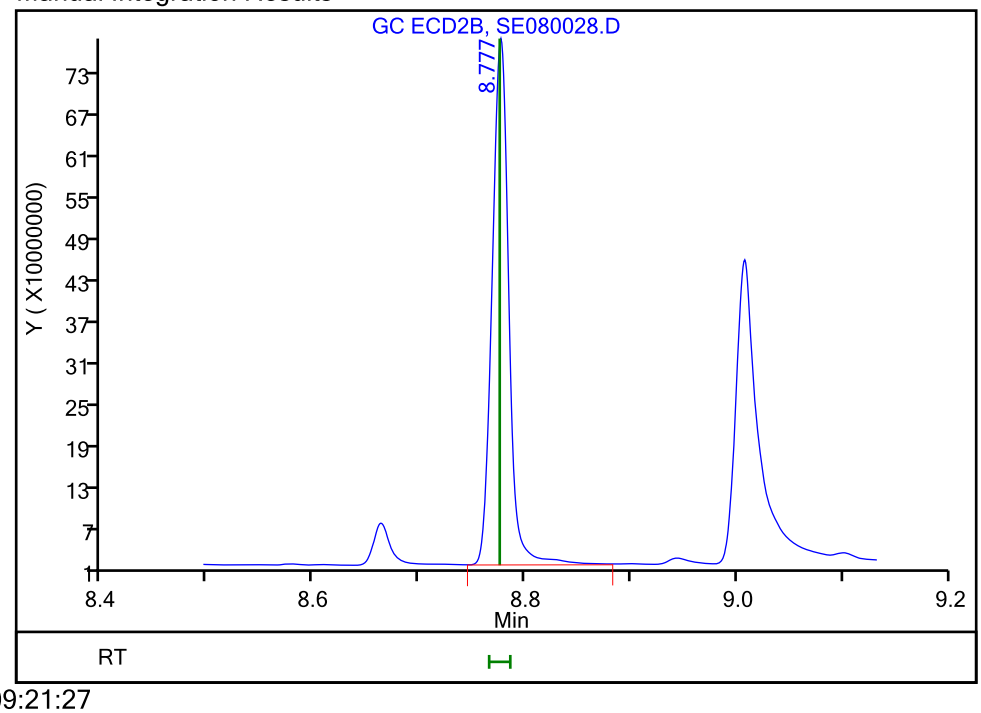
Processing Integration Results

RT: 8.78
Area: 837751076
Amount: 0.085301
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 842841434
Amount: 0.085819
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

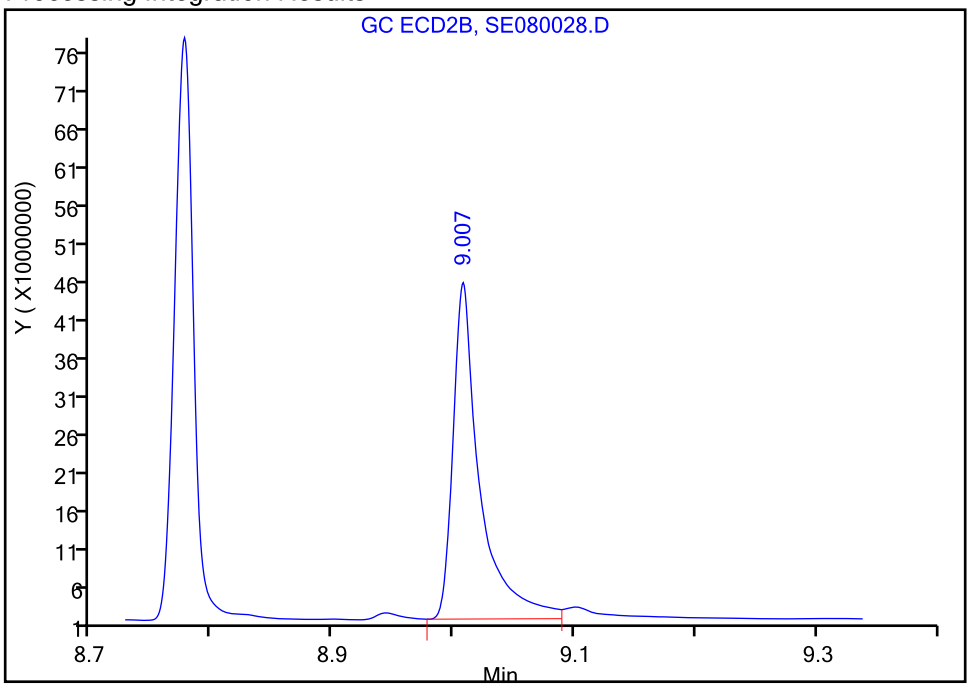
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

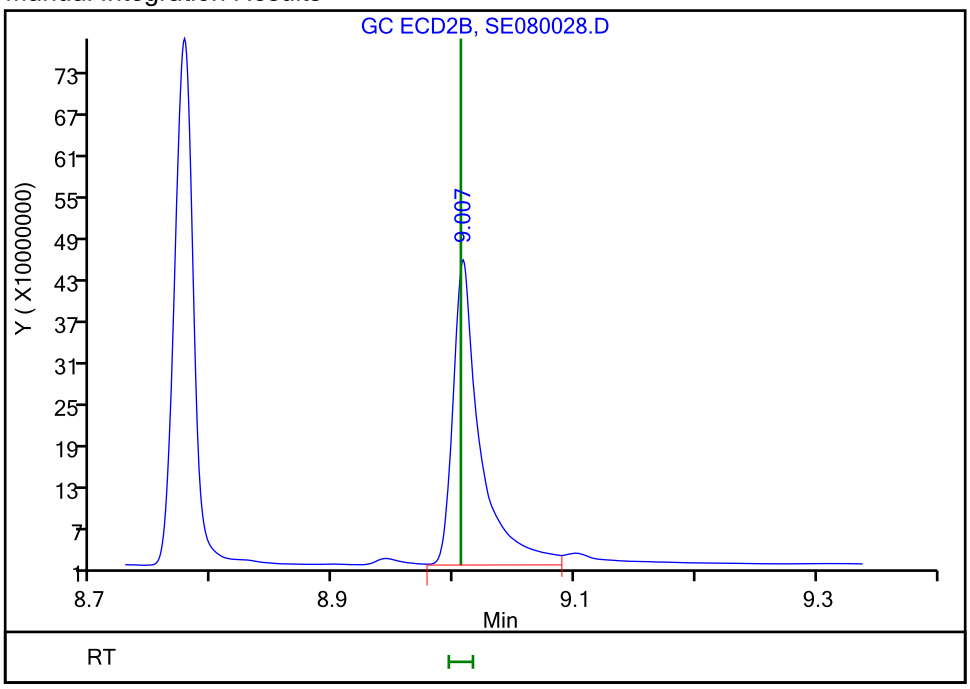
Processing Integration Results

RT: 9.01
Area: 676921306
Amount: 0.069517
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 686881952
Amount: 0.070402
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	524076394	427820811		0.143	0.175	-18.4	20.0
3,5-Dichlorobenzoic acid	Ave	321415612	296583189		0.161	0.175	-7.7	20.0
4-Nitrophenol	Ave	92458216	91577274		0.173	0.175	-1.0	20.0
Dicamba	Ave	1077009527	967765931		0.0786	0.0875	-10.1	20.0
MCPP	Qua		463186		15.5	17.5	-11.5	20.0
MCPA	Ave	925968	928421		17.5	17.5	0.3	20.0
Dichlorprop	Ave	277497963	251504674		0.159	0.175	-9.4	20.0
2,4-D	Ave	302399622	288193971		0.167	0.175	-4.7	20.0
Pentachlorophenol	Ave	5383895550	4999942514		0.0406	0.0438	-7.1	20.0
Silvex (2,4,5-TP)	Ave	1878728542	1784749486		0.0416	0.0438	-5.0	20.0
Chloramben	Qua		1362967709		0.148	0.175	-15.2	20.0
2,4,5-T	Ave	2193840481	1981877189		0.0395	0.0438	-9.7	20.0
2,4-DB	Qua		140018897		0.151	0.175	-13.5	20.0
Dinoseb	Ave	1223895982	1102965480		0.158	0.175	-9.9	20.0
Bentazon	Ave	287551968	248107274		0.151	0.175	-13.7	20.0
Picloram	Qua		2203813377		0.152	0.175	-13.3	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	3293157561	3005082234		0.160	0.175	-8.7	20.0
Acifluorfen	Qua		2133379526		0.156	0.175	-10.8	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	211477985	187262200		0.155	0.175	-11.5	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.58	2.56	2.60
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.25	6.24	6.26
Dicamba	6.72	6.71	6.73
MCPP	6.87	6.86	6.88
MCPA	6.99	6.98	7.00
Dichlorprop	7.18	7.17	7.19
2,4-D	7.32	7.32	7.34
Pentachlorophenol	7.67	7.66	7.68
Silvex (2,4,5-TP)	7.77	7.76	7.78
Chloramben	7.85	7.85	7.87
2,4,5-T	7.93	7.92	7.94
2,4-DB	8.17	8.17	8.19
Dinoseb	8.22	8.21	8.23
Bentazon	8.30	8.29	8.31
Picloram	8.53	8.52	8.54
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	8.61	8.63
Acifluorfen	9.67	9.66	9.68
2,4-Dichlorophenylacetic acid (Surr)	6.68	6.67	6.69

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080038.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2018 00:55:01 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-038
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:51 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	74868642	0.1750	0.1429	
2	2.633	2.632	0.001	228091005	0.1750	0.1415	
						RPD = 0.94	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	15709201	NC	NC	
2	5.102	5.102	0.000	81447701	NC	NC	
						RPD = 6.40	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	197792324	NC	NC	
2	5.777	5.776	0.001	814623419	NC	NC	
						RPD = 4.12	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	51902058	0.1750	0.1615	
2	6.116	6.116	0.000	269503235	0.1750	0.1500	
						RPD = 7.39	
5 4-Nitrophenol							
1	6.252	6.253	-0.001	16026023	0.1750	0.1733	
2	6.504	6.505	-0.001	47684379	0.1750	0.1595	
						RPD = 8.34	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	32770885	0.1750	0.1550	
2	6.828	6.829	-0.001	207297956	0.1750	0.1473	
						RPD = 5.10	
7 Dicamba							
1	6.719	6.720	-0.001	84679519	0.0875	0.0786	
2	6.910	6.910	0.000	378314581	0.0875	0.0755	
						RPD = 4.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	8105752	17.5	15.5	
2	6.955	6.955	0.000	66707270	17.5	14.4	
						RPD = 7.18	
9 MCPA							
1	6.994	6.994	0.000	16247375	17.5	17.5	
2	7.154	7.155	-0.001	106598040	17.5	17.6	
						RPD = 0.16	
10 Dichlorprop							
1	7.180	7.180	0.000	44013318	0.1750	0.1586	
2	7.297	7.297	0.000	204624887	0.1750	0.1451	
						RPD = 8.87	
11 2,4-D							
1	7.324	7.326	-0.002	50433945	0.1750	0.1668	
2	7.516	7.517	-0.001	241432402	0.1750	0.1515	
						RPD = 9.60	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	218747485	0.0438	0.0406	
2	7.713	7.714	-0.001	739224164	0.0438	0.0393	
						RPD = 3.32	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	78082790	0.0438	0.0416	
2	7.846	7.846	0.000	285344847	0.0438	0.0386	
						RPD = 7.37	
14 Chloramben							
1	7.852	7.855	-0.003	238519349	0.1750	0.1484	
2	8.159	8.162	-0.003	877032133	0.1750	0.1559	
						RPD = 4.95	
15 2,4,5-T							
1	7.925	7.929	-0.004	86707127	0.0438	0.0395	
2	8.081	8.083	-0.002	257818803	0.0438	0.0388	
						RPD = 1.87	
16 2,4-DB							
1	8.172	8.175	-0.003	24503307	0.1750	0.1514	
2	8.299	8.302	-0.003	149059866	0.1750	0.1511	
						RPD = 0.18	
17 Dinoseb							
1	8.222	8.224	-0.002	193018959	0.1750	0.1577	
2	8.248	8.248	0.000	599229354	0.1750	0.1360	
						RPD = 14.76	
18 Bentazon							
1	8.299	8.300	-0.001	43418773	0.1750	0.1510	
2	8.662	8.662	0.000	121010538	0.1750	0.1505	
						RPD = 0.32	
19 Picloram							
1	8.526	8.529	-0.003	385667341	0.1750	0.1518	
2	9.005	9.005	0.000	1378057284	0.1750	0.1318	
						RPD = 14.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	525889391	0.1750	0.1597	
2	8.777	8.775	0.002	1570076998	0.1750	0.1599	
						RPD = 0.11	
21 Acifluorfen							
1	9.665	9.666	-0.001	373341417	0.1750	0.1561	
2	9.791	9.792	-0.001	1116042155	0.1750	0.1517	
						RPD = 2.89	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

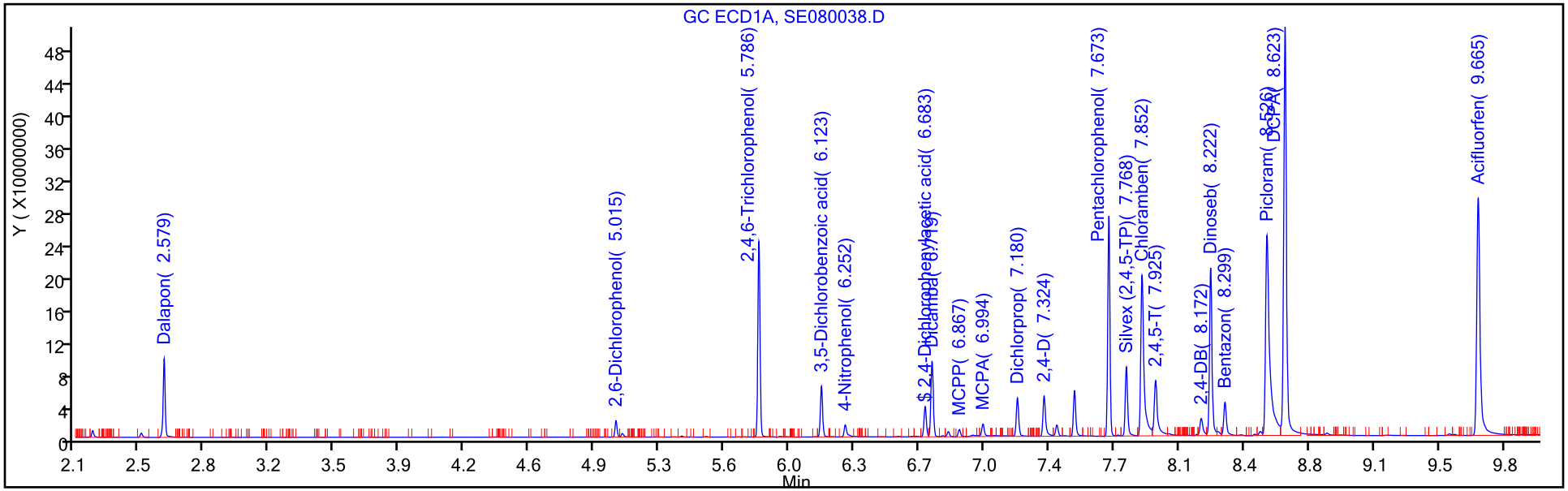
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TestAmerica Savannah

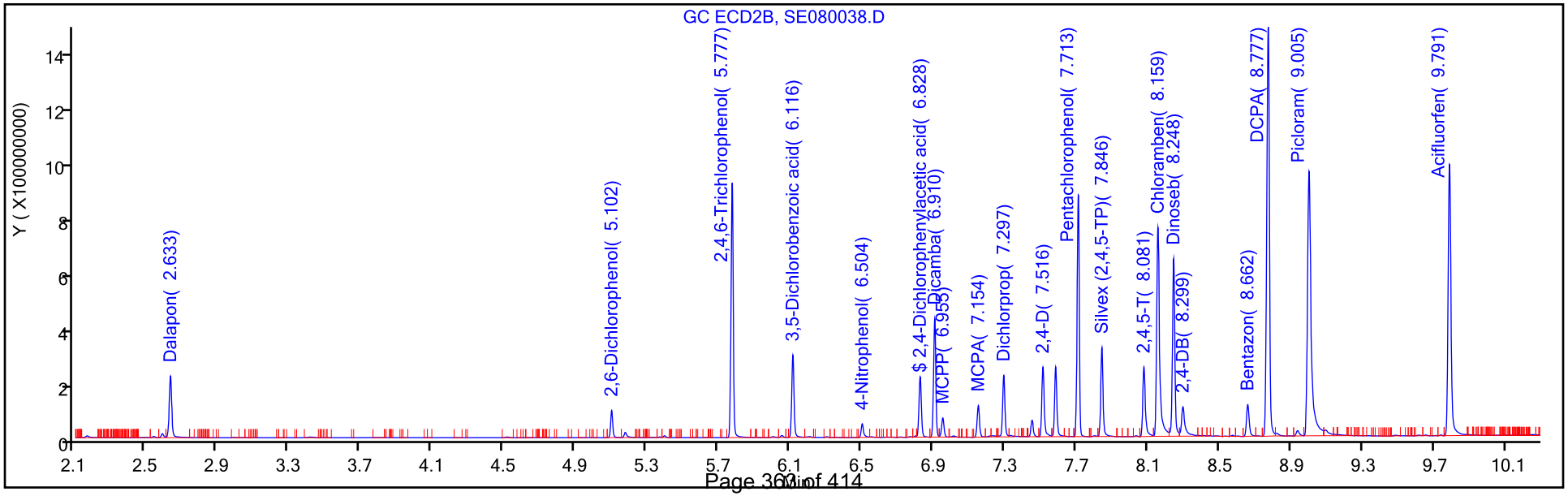
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Injection Date:	09-May-2018 00:55:01	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1611774466	1303377171		0.142	0.175	-19.1	20.0
3,5-Dichlorobenzoic acid	Ave	1796964783	1540018486		0.150	0.175	-14.3	20.0
4-Nitrophenol	Ave	299039718	272482166		0.159	0.175	-8.9	20.0
Dicamba	Ave	5009061262	4323595211		0.0755	0.0875	-13.7	20.0
MCPP	Lin2		3811844		14.4	17.5	-17.6	20.0
MCPA	QuaF		6091317		17.6	17.5	0.4	20.0
Dichlorprop	Ave	1409813393	1169285069		0.145	0.175	-17.1	20.0
2,4-D	Ave	1593535987	1379613726		0.152	0.175	-13.4	20.0
Pentachlorophenol	Ave	18808678996	16896552320		0.0393	0.0438	-10.2	20.0
Silvex (2,4,5-TP)	Ave	7391322149	6522167931		0.0386	0.0438	-11.8	20.0
2,4,5-T	Ave	6646535168	5893001211		0.0388	0.0438	-11.3	20.0
Chloramben	Ave	5625509945	5011612189		0.156	0.175	-10.9	20.0
Dinoseb	Lin1		3424167737		0.136	0.175	-22.3*	20.0
2,4-DB	Ave	986290097	851770663		0.151	0.175	-13.6	20.0
Bentazon	Ave	803969083	691488789		0.151	0.175	-14.0	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	9821124803	8971868560		0.160	0.175	-8.6	20.0
Picloram	Lin1		7874613051		0.132	0.175	-24.7*	20.0
Acifluorfen	Qua		6377383743		0.152	0.175	-13.3	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1407755771	1184559749		0.147	0.175	-15.9	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.63	2.61	2.65
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.50	6.50	6.52
Dicamba	6.91	6.90	6.92
MCPP	6.96	6.95	6.97
MCPA	7.15	7.15	7.17
Dichlorprop	7.30	7.29	7.31
2,4-D	7.52	7.51	7.53
Pentachlorophenol	7.71	7.70	7.72
Silvex (2,4,5-TP)	7.85	7.84	7.86
2,4,5-T	8.08	8.07	8.09
Chloramben	8.16	8.15	8.17
Dinoseb	8.25	8.24	8.26
2,4-DB	8.30	8.29	8.31
Bentazon	8.66	8.65	8.67
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	8.77	8.79
Picloram	9.01	9.00	9.02
Acifluorfen	9.79	9.78	9.80
2,4-Dichlorophenylacetic acid (Surr)	6.83	6.82	6.84

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080038.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2018 00:55:01 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-038
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:51 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	74868642	0.1750	0.1429	
2	2.633	2.632	0.001	228091005	0.1750	0.1415	
						RPD = 0.94	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	15709201	NC	NC	
2	5.102	5.102	0.000	81447701	NC	NC	
						RPD = 6.40	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	197792324	NC	NC	
2	5.777	5.776	0.001	814623419	NC	NC	
						RPD = 4.12	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	51902058	0.1750	0.1615	
2	6.116	6.116	0.000	269503235	0.1750	0.1500	
						RPD = 7.39	
5 4-Nitrophenol							
1	6.252	6.253	-0.001	16026023	0.1750	0.1733	
2	6.504	6.505	-0.001	47684379	0.1750	0.1595	
						RPD = 8.34	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	32770885	0.1750	0.1550	
2	6.828	6.829	-0.001	207297956	0.1750	0.1473	
						RPD = 5.10	
7 Dicamba							
1	6.719	6.720	-0.001	84679519	0.0875	0.0786	
2	6.910	6.910	0.000	378314581	0.0875	0.0755	
						RPD = 4.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	8105752	17.5	15.5	
2	6.955	6.955	0.000	66707270	17.5	14.4	
						RPD = 7.18	
9 MCPA							
1	6.994	6.994	0.000	16247375	17.5	17.5	
2	7.154	7.155	-0.001	106598040	17.5	17.6	
						RPD = 0.16	
10 Dichlorprop							
1	7.180	7.180	0.000	44013318	0.1750	0.1586	
2	7.297	7.297	0.000	204624887	0.1750	0.1451	
						RPD = 8.87	
11 2,4-D							
1	7.324	7.326	-0.002	50433945	0.1750	0.1668	
2	7.516	7.517	-0.001	241432402	0.1750	0.1515	
						RPD = 9.60	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	218747485	0.0438	0.0406	
2	7.713	7.714	-0.001	739224164	0.0438	0.0393	
						RPD = 3.32	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	78082790	0.0438	0.0416	
2	7.846	7.846	0.000	285344847	0.0438	0.0386	
						RPD = 7.37	
14 Chloramben							
1	7.852	7.855	-0.003	238519349	0.1750	0.1484	
2	8.159	8.162	-0.003	877032133	0.1750	0.1559	
						RPD = 4.95	
15 2,4,5-T							
1	7.925	7.929	-0.004	86707127	0.0438	0.0395	
2	8.081	8.083	-0.002	257818803	0.0438	0.0388	
						RPD = 1.87	
16 2,4-DB							
1	8.172	8.175	-0.003	24503307	0.1750	0.1514	
2	8.299	8.302	-0.003	149059866	0.1750	0.1511	
						RPD = 0.18	
17 Dinoseb							
1	8.222	8.224	-0.002	193018959	0.1750	0.1577	
2	8.248	8.248	0.000	599229354	0.1750	0.1360	
						RPD = 14.76	
18 Bentazon							
1	8.299	8.300	-0.001	43418773	0.1750	0.1510	
2	8.662	8.662	0.000	121010538	0.1750	0.1505	
						RPD = 0.32	
19 Picloram							
1	8.526	8.529	-0.003	385667341	0.1750	0.1518	
2	9.005	9.005	0.000	1378057284	0.1750	0.1318	
						RPD = 14.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	525889391	0.1750	0.1597	
2	8.777	8.775	0.002	1570076998	0.1750	0.1599	
						RPD = 0.11	
21 Acifluorfen							
1	9.665	9.666	-0.001	373341417	0.1750	0.1561	
2	9.791	9.792	-0.001	1116042155	0.1750	0.1517	
						RPD = 2.89	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

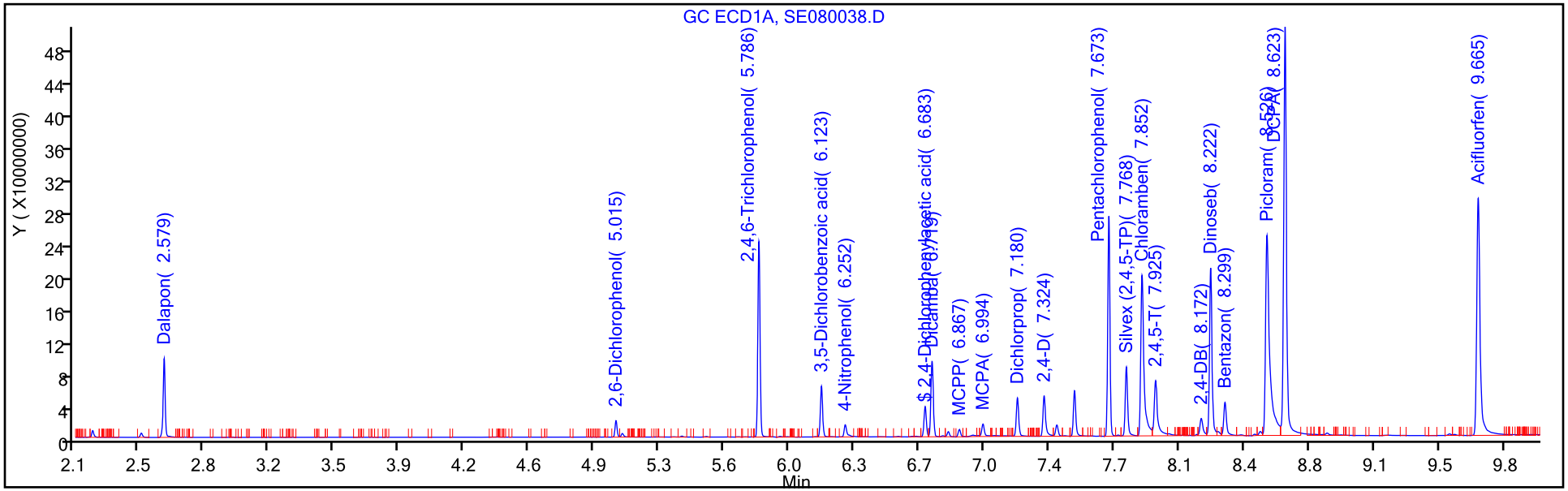
Report Date: 09-May-2018 09:36:55 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

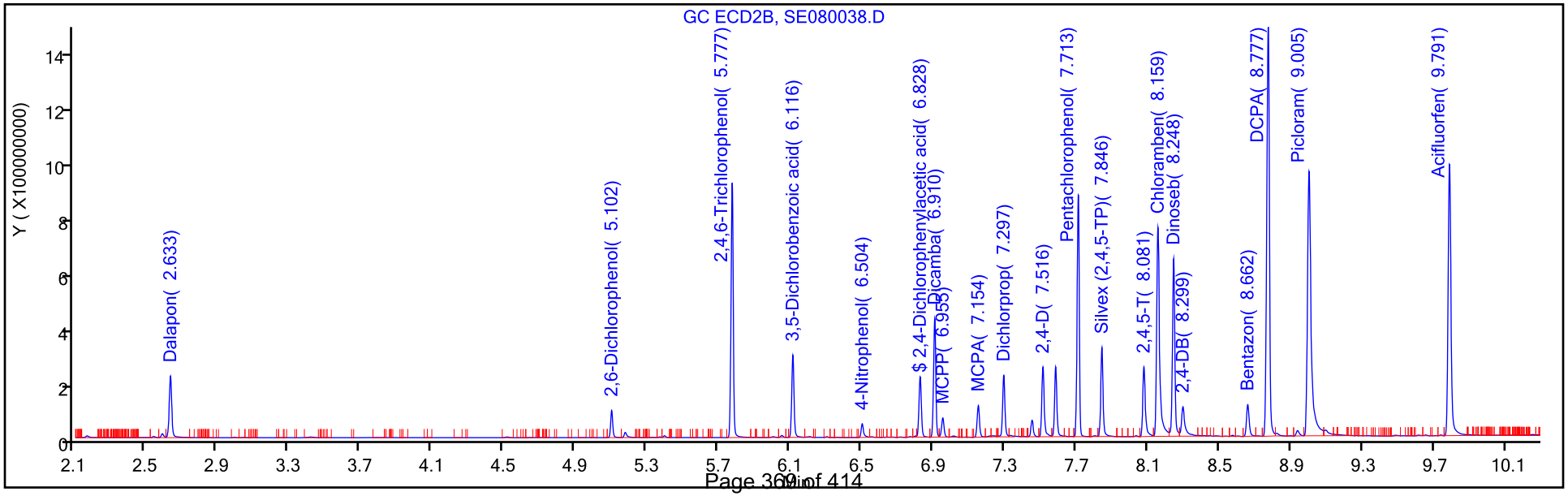
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080038.D

Injection Date:	09-May-2018 00:55:01	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 680-522541/10-A

Matrix: Solid | Lab File ID: SE080030.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.02(g) | Date Analyzed: 05/08/2018 22:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.3	U M	8.3	4.3	2.3
94-75-7	2,4-D	8.3	U	8.3	8.3	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	52		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080030.D
Lims ID: MB 680-522541/10-A
Client ID:
Sample Type: MB
Inject. Date: 08-May-2018 22:19:12 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-030
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:51 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:29:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	25404910	0.2000	0.1201	
2	6.828	6.829	-0.001	146536865	0.2000	0.1041	
						RPD = 14.31	
12 Pentachlorophenol							
1	7.671	7.674	-0.003	2673336		0.000497	
2	7.714	7.714	0.000	4902202		0.000261	
						RPD = 62.31	

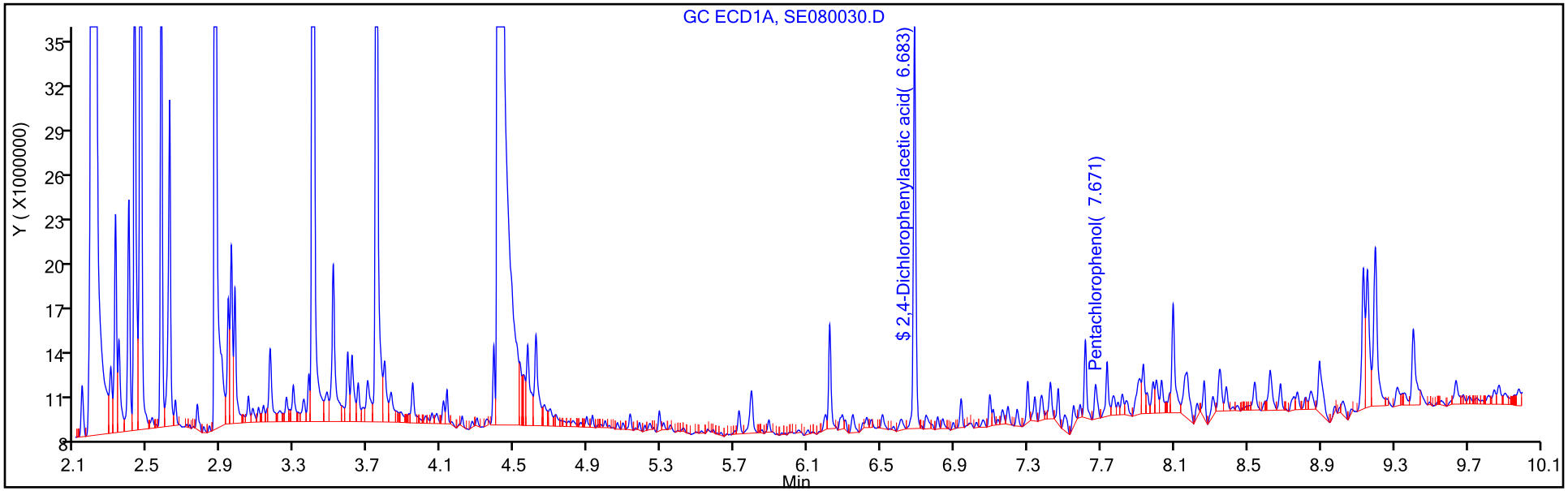
Report Date: 09-May-2018 09:37:30 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

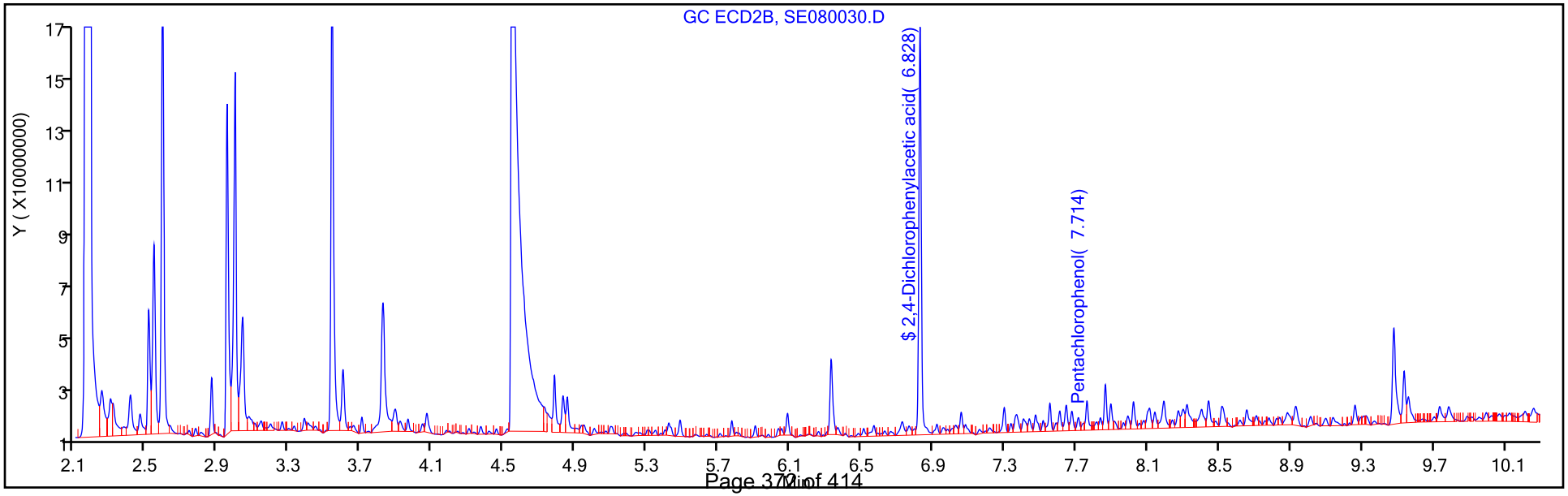
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080030.D

Injection Date:	08-May-2018 22:19:12	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	MB 680-522541/10-A			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080030.D				
Lims ID:	MB 680-522541/10-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	08-May-2018 22:19:12	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-030				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:29:27		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1201	60.07

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1041	52.05

User Disabled Compound Report

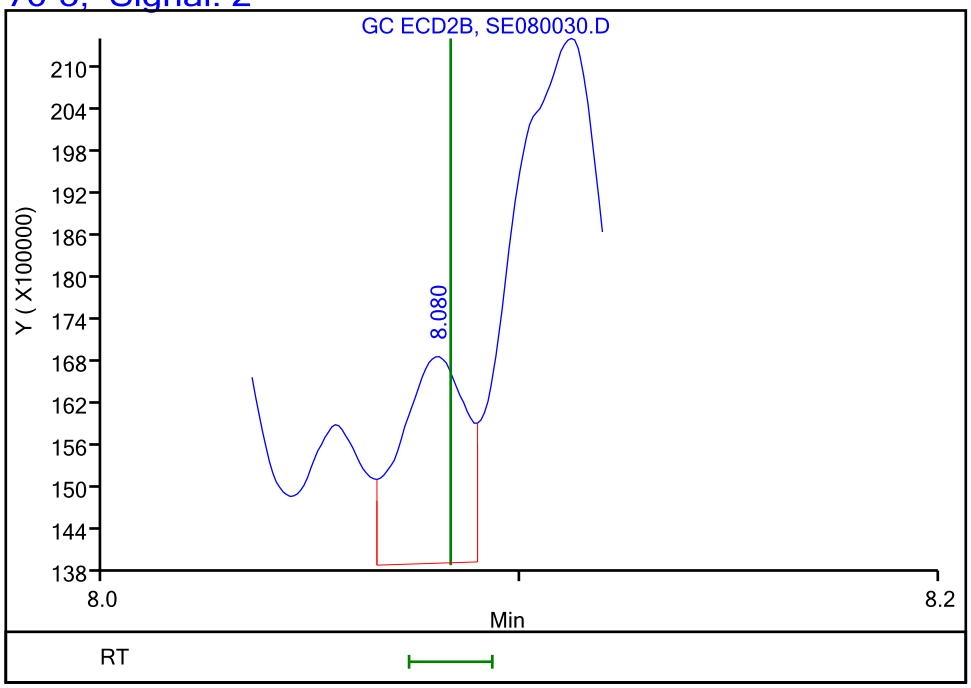
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080030.D
Injection Date: 08-May-2018 22:19:12 Instrument ID: CSGS
Lims ID: MB 680-522541/10-A
Client ID:
Operator ID: GEM ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

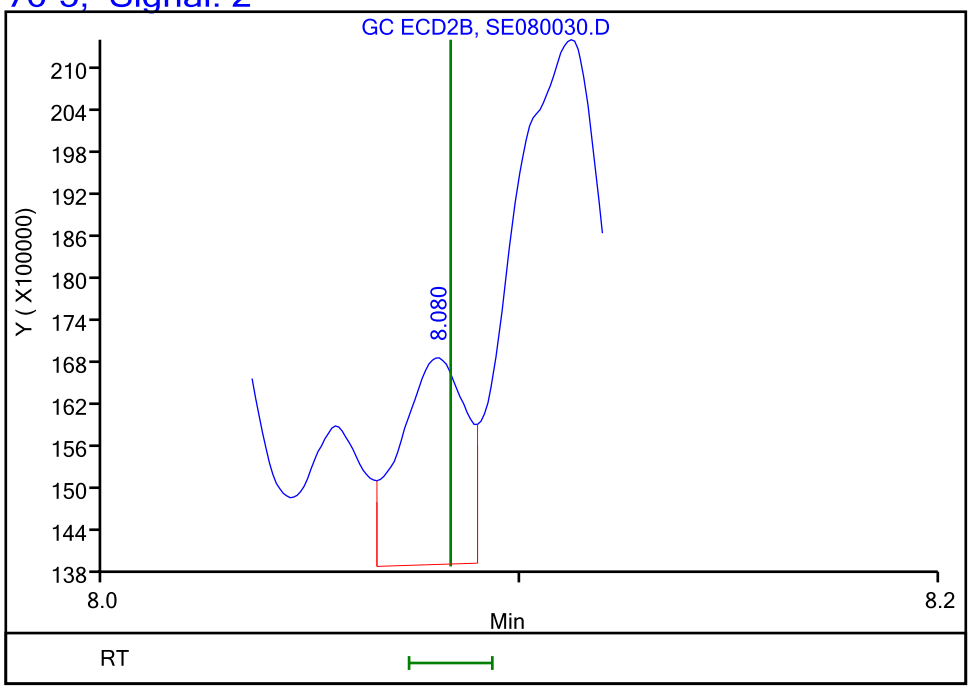
RT: 8.08
Response: 3234514
Amount: 0.000487



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 8.08
Response: 3234514
Amount: 0.000487



Reviewer: kellarj, 09-May-2018 09:29:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/29

Matrix: Solid | Lab File ID: SE080029.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/08/2018 21:59

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U M	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	80		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:21:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	170593061	1.00	0.8067	
2	6.831	6.829	0.002	995138894	1.00	0.7069	
						RPD = 13.18	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

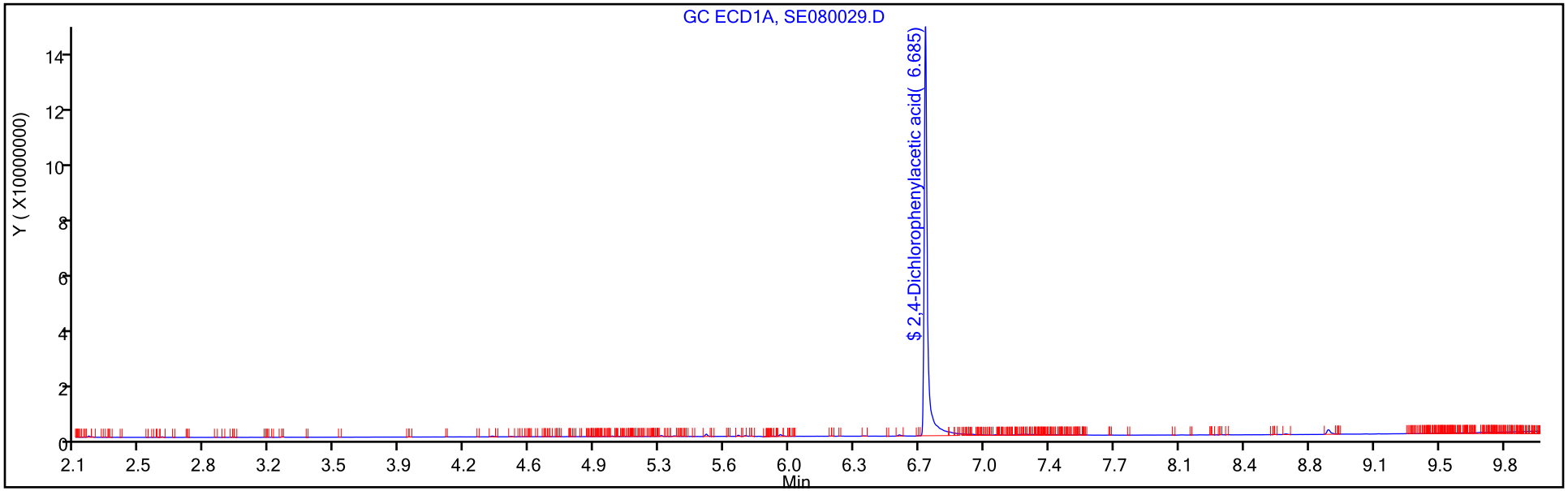
Report Date: 09-May-2018 09:37:36 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

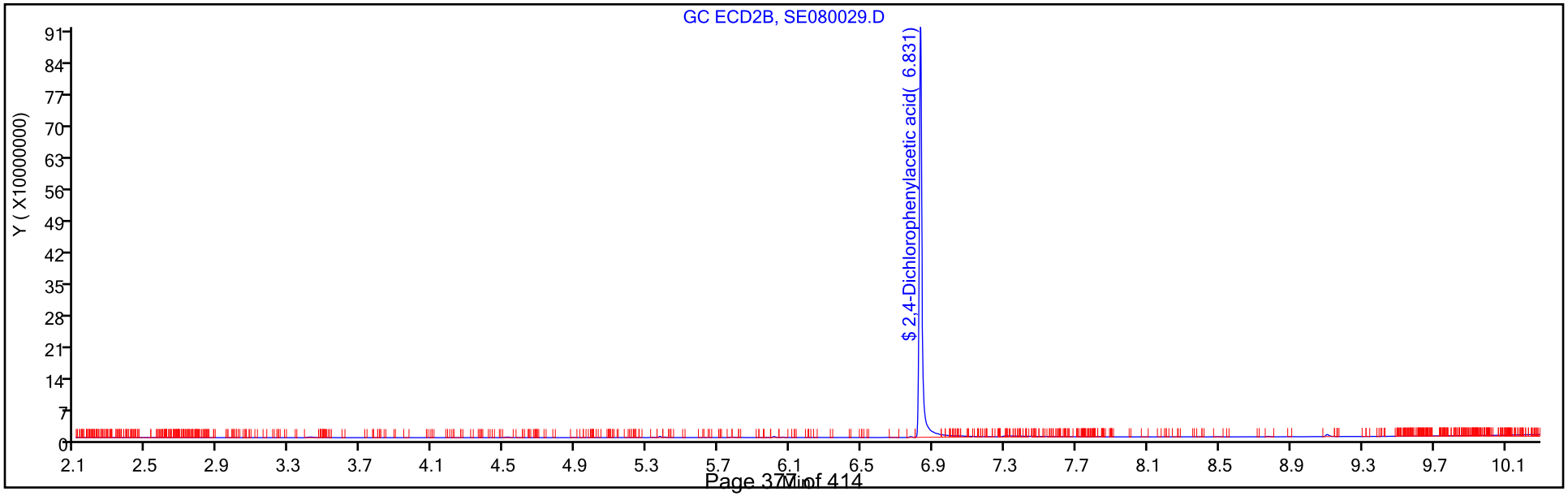
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Injection Date:	08-May-2018 21:59:46	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:21:42		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8067	80.35

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7069	70.41

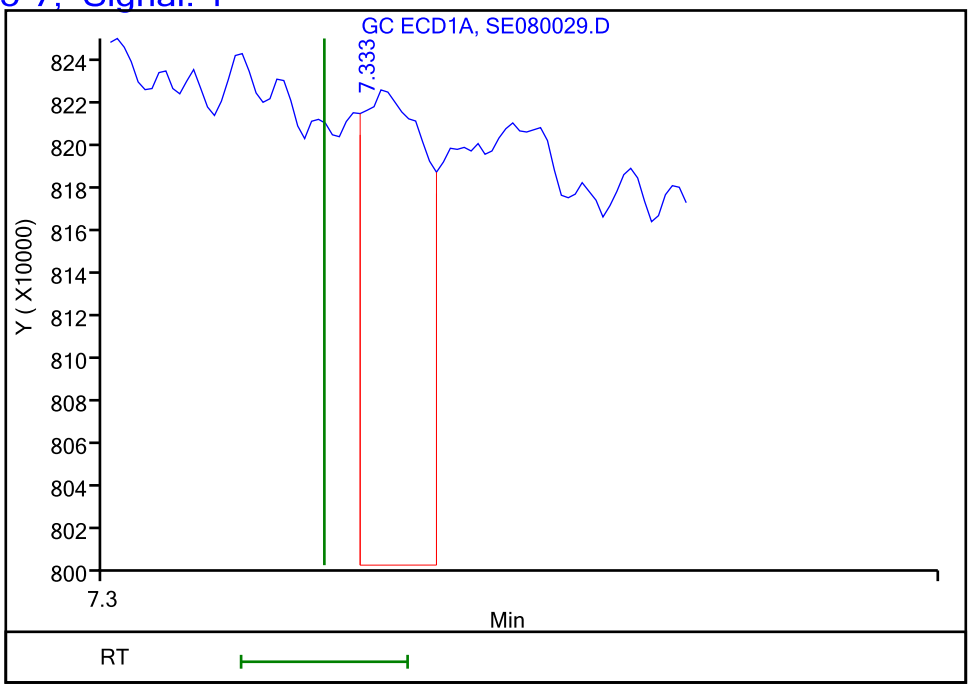
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D
Injection Date: 08-May-2018 21:59:46 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Detector GC ECD1A

11 2,4-D, CAS: 94-75-7, Signal: 1

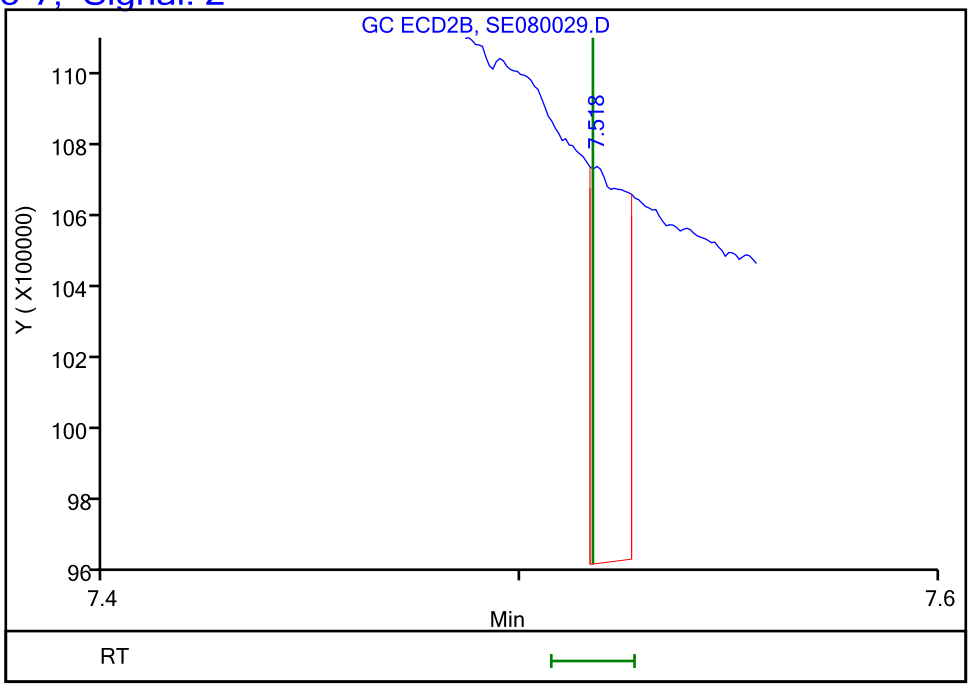
RT: 7.33
Response: 107513
Amount: 0.000356



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 574902
Amount: 0.000361



Reviewer: kellarj, 09-May-2018 09:21:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/29

Matrix: Solid | Lab File ID: SE080029.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/08/2018 21:59

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U M*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	70		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:21:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	170593061	1.00	0.8067	
2	6.831	6.829	0.002	995138894	1.00	0.7069	
						RPD = 13.18	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

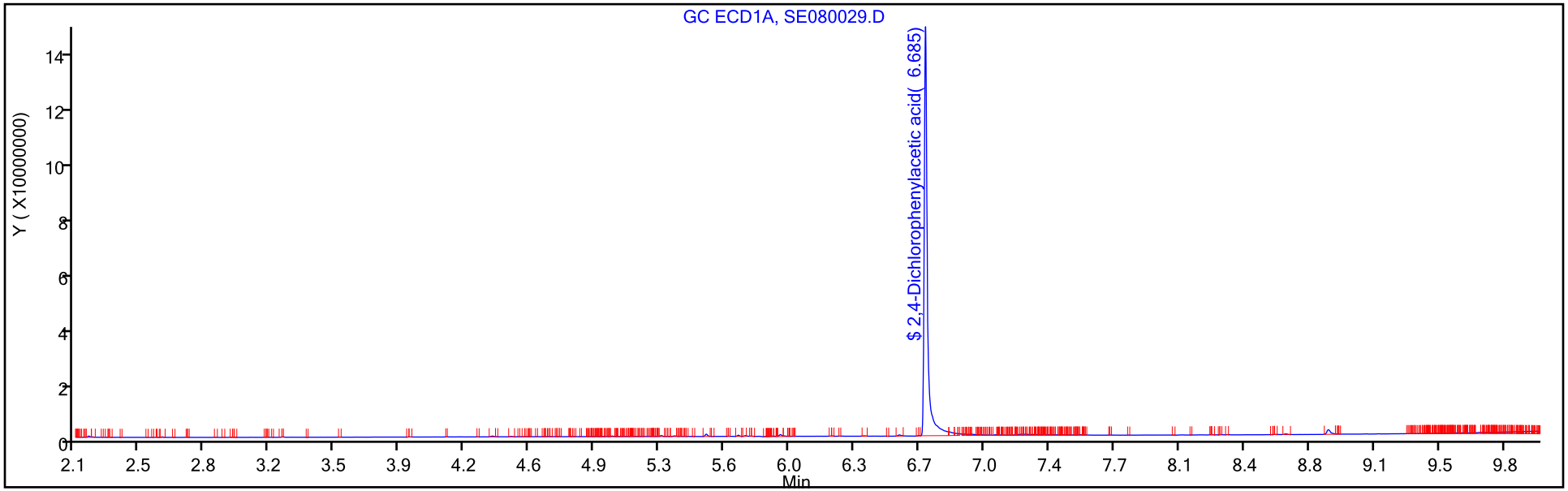
Report Date: 09-May-2018 09:37:38 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

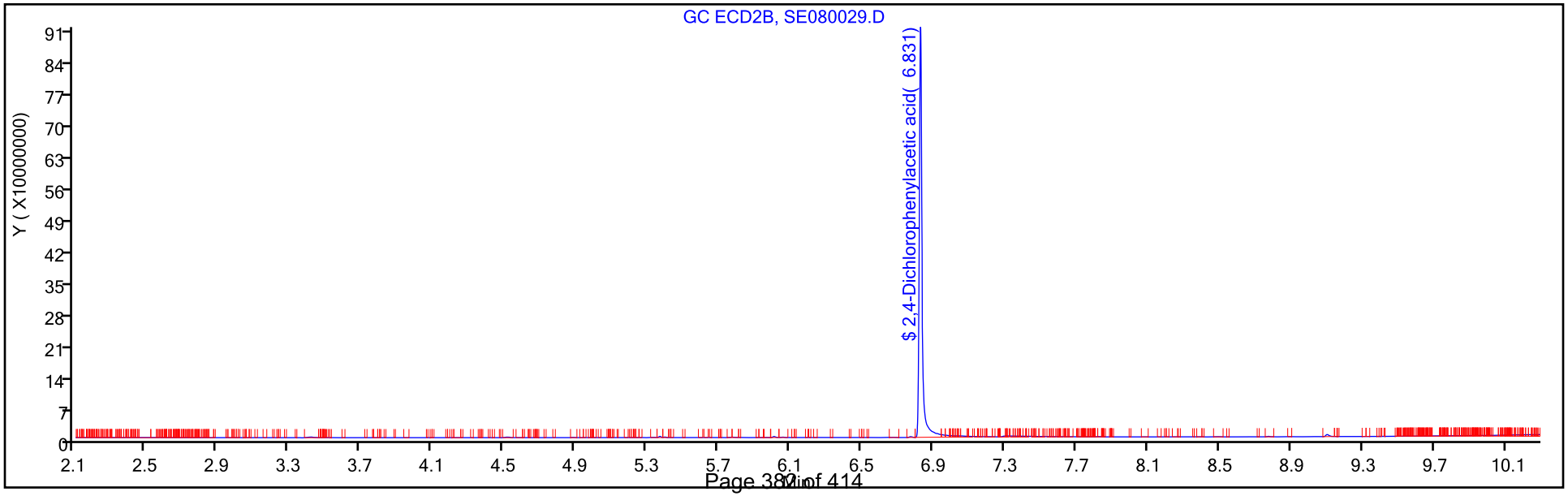
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D

Injection Date:	08-May-2018 21:59:46	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:21:42		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8067	80.35

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7069	70.41

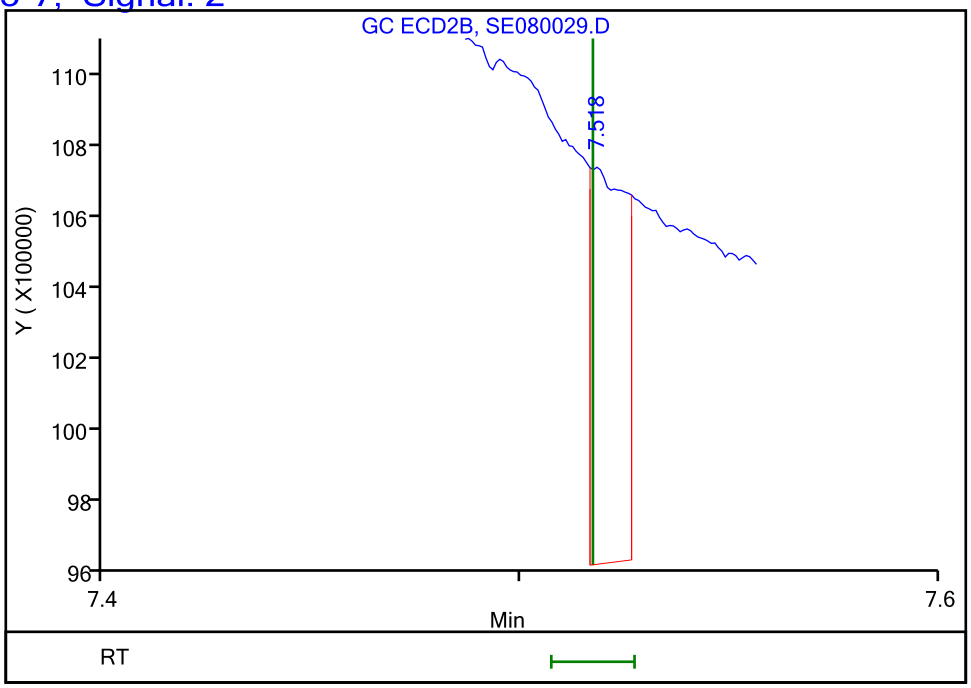
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D
Injection Date: 08-May-2018 21:59:46 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

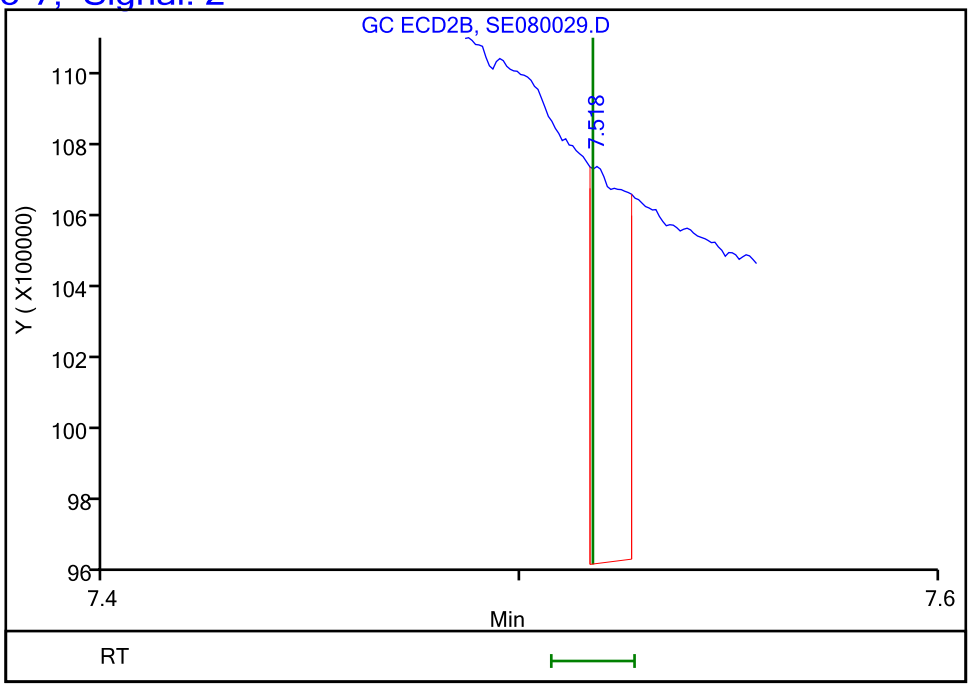
RT: 7.52
Response: 574902
Amount: 0.000361



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 574902
Amount: 0.000361



Reviewer: kellarj, 09-May-2018 09:21:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/39

Matrix: Solid | Lab File ID: SE080039.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/09/2018 01:14

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U M	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	75		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	09-May-2018 01:14:39	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:11	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:22:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	159546417	1.00	0.7544	
2	6.831	6.829	0.002	926668182	1.00	0.6583	
						RPD = 13.62	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

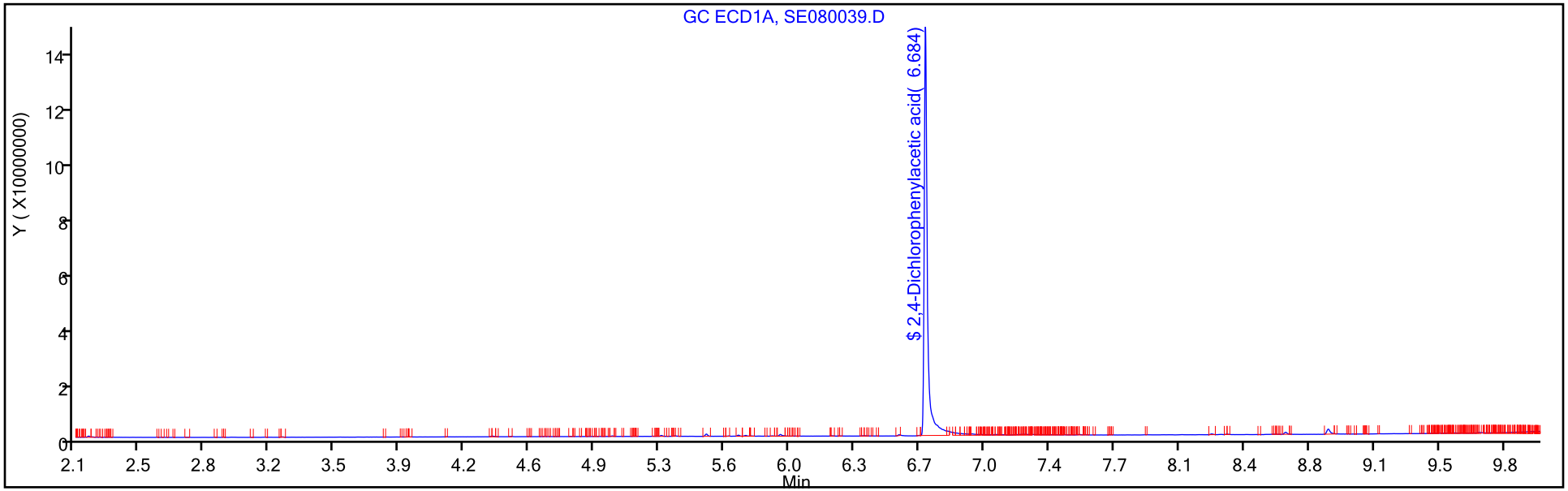
Report Date: 09-May-2018 09:36:41 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

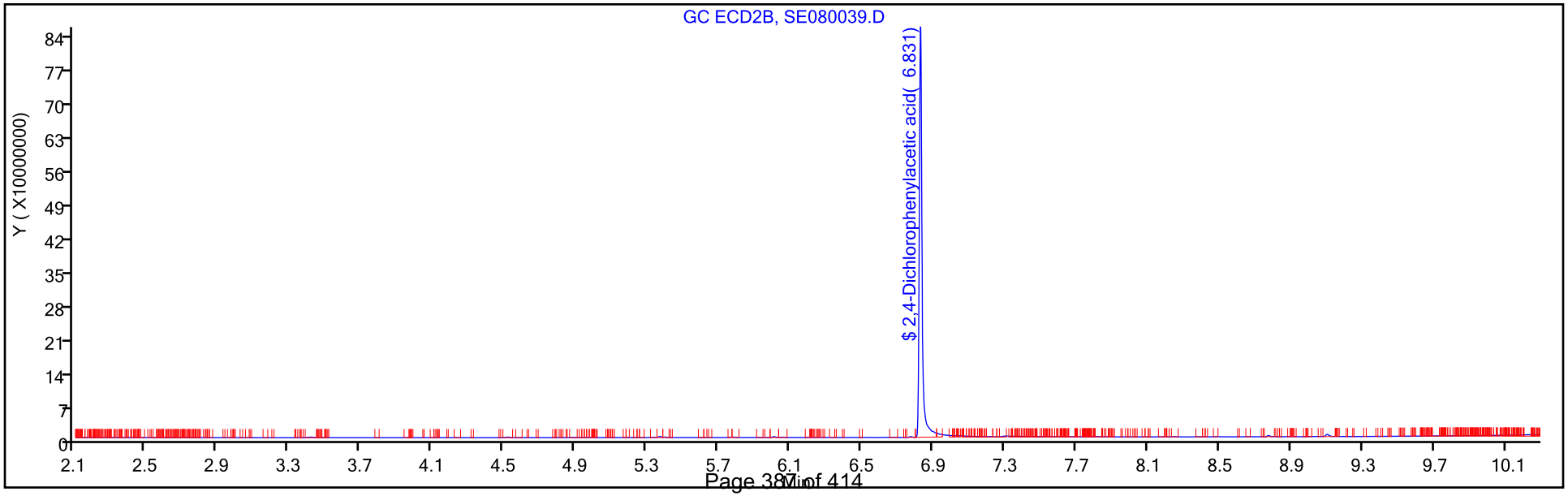
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D

Injection Date:	09-May-2018 01:14:39	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	09-May-2018 01:14:39	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:11	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:22:33		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7544	75.14

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.6583	65.56

User Disabled Compound Report

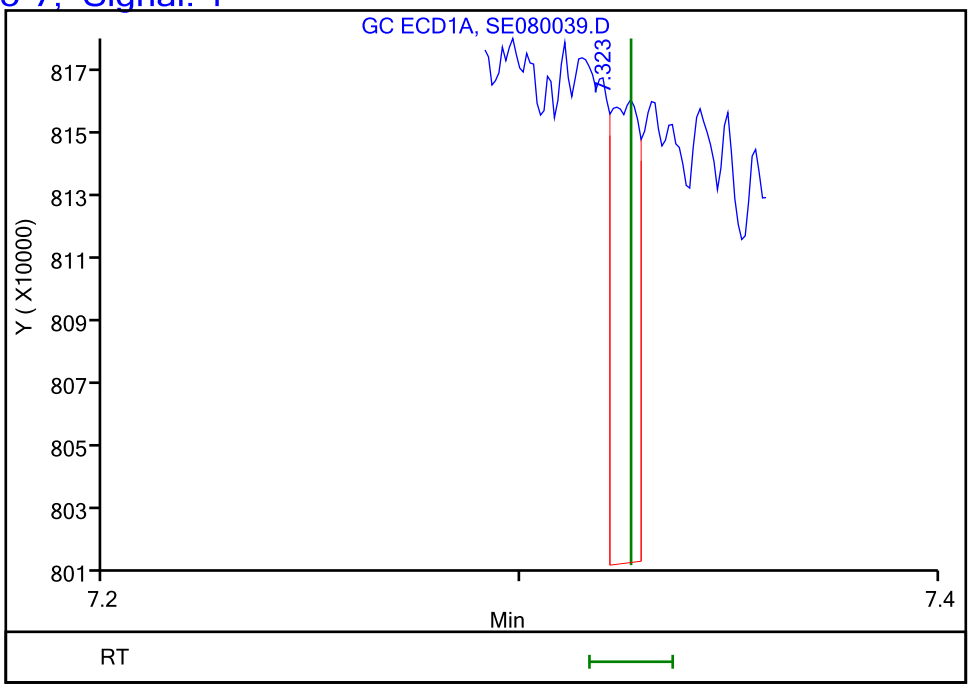
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D
Injection Date: 09-May-2018 01:14:39 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Detector GC ECD1A

11 2,4-D, CAS: 94-75-7, Signal: 1

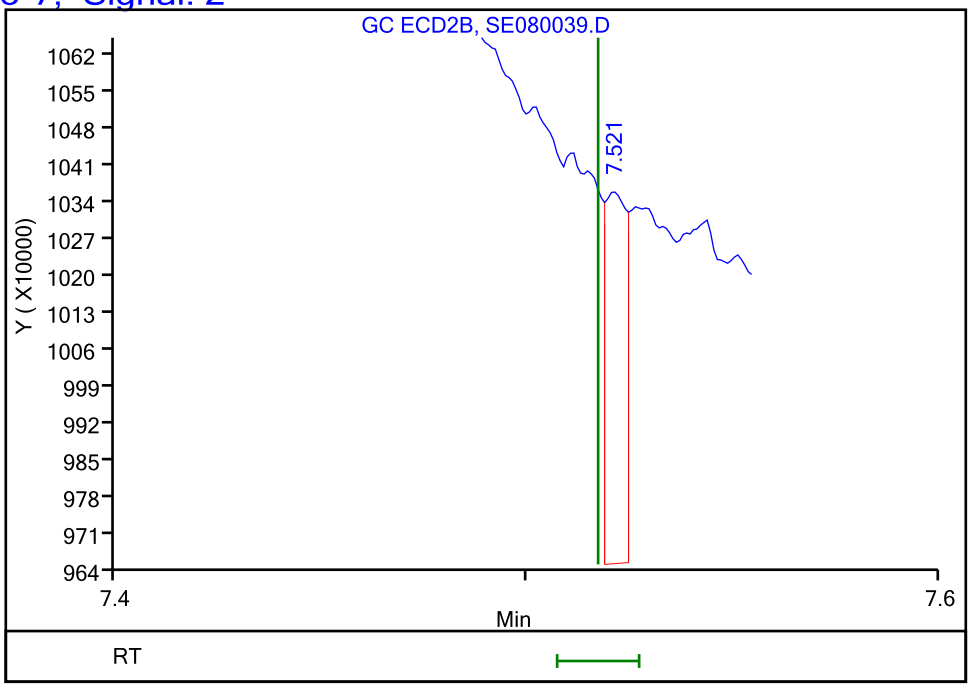
RT: 7.32
Response: 62011
Amount: 0.000205



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 240112
Amount: 0.000151



Reviewer: kellarj, 09-May-2018 09:22:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/39

Matrix: Solid | Lab File ID: SE080039.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/09/2018 01:14

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U M*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	66		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	09-May-2018 01:14:39	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:11	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:22:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	159546417	1.00	0.7544	
2	6.831	6.829	0.002	926668182	1.00	0.6583	
						RPD = 13.62	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

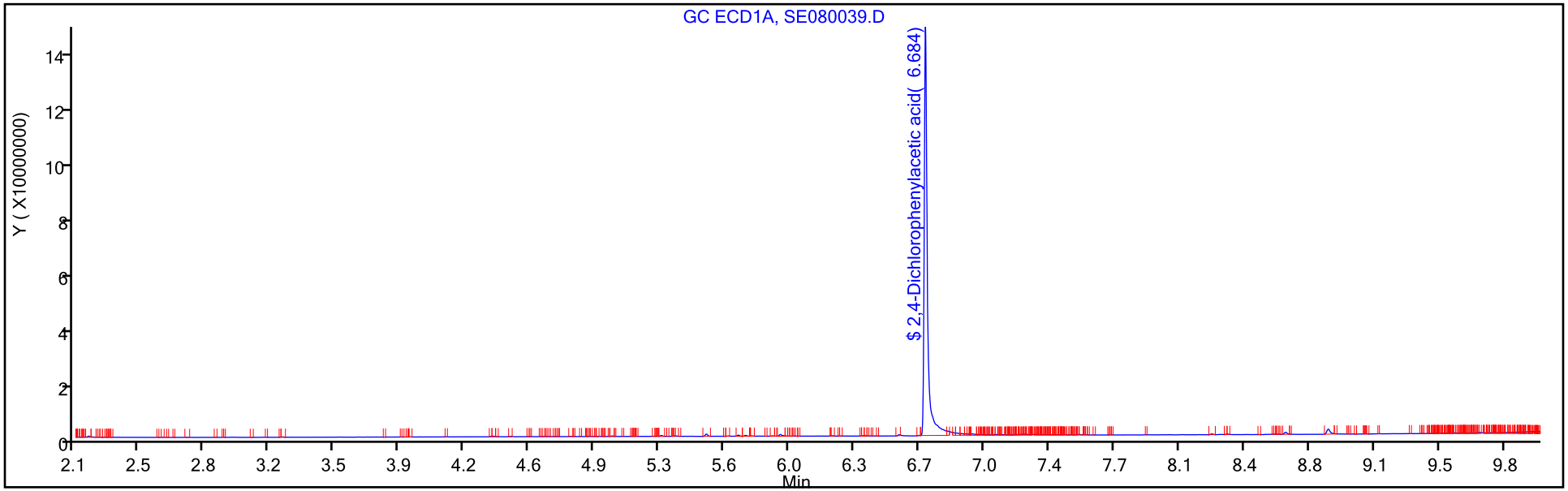
Report Date: 09-May-2018 09:36:42 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

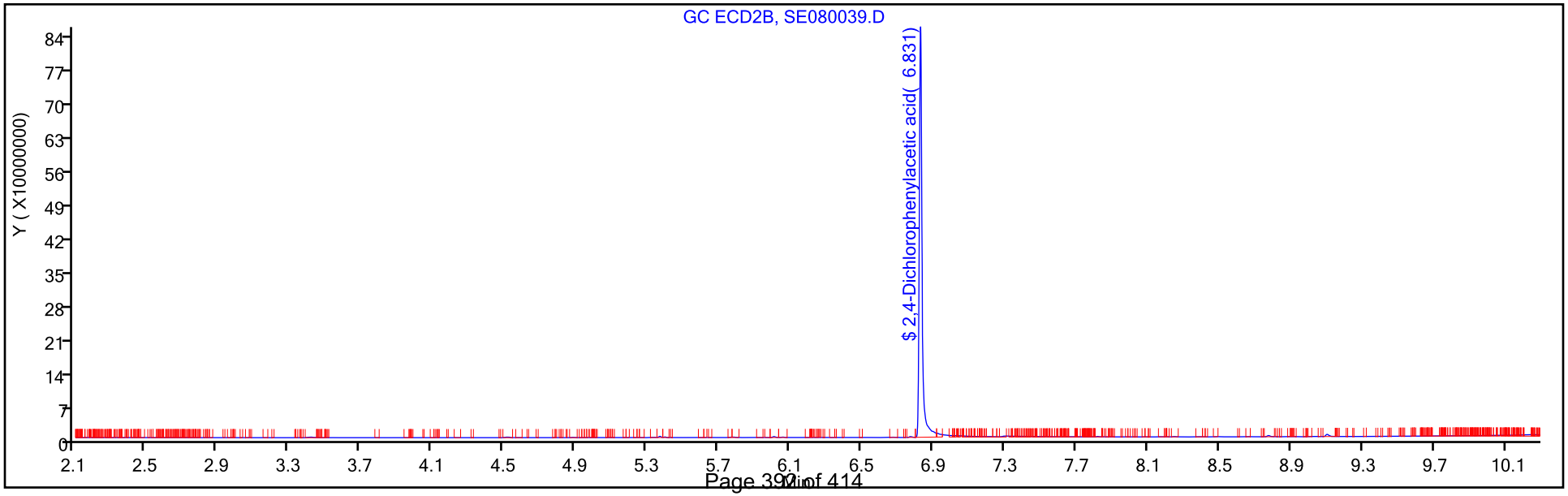
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D

Injection Date:	09-May-2018 01:14:39	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	09-May-2018 01:14:39	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:11	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:22:33		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7544	75.14

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.6583	65.56

User Disabled Compound Report

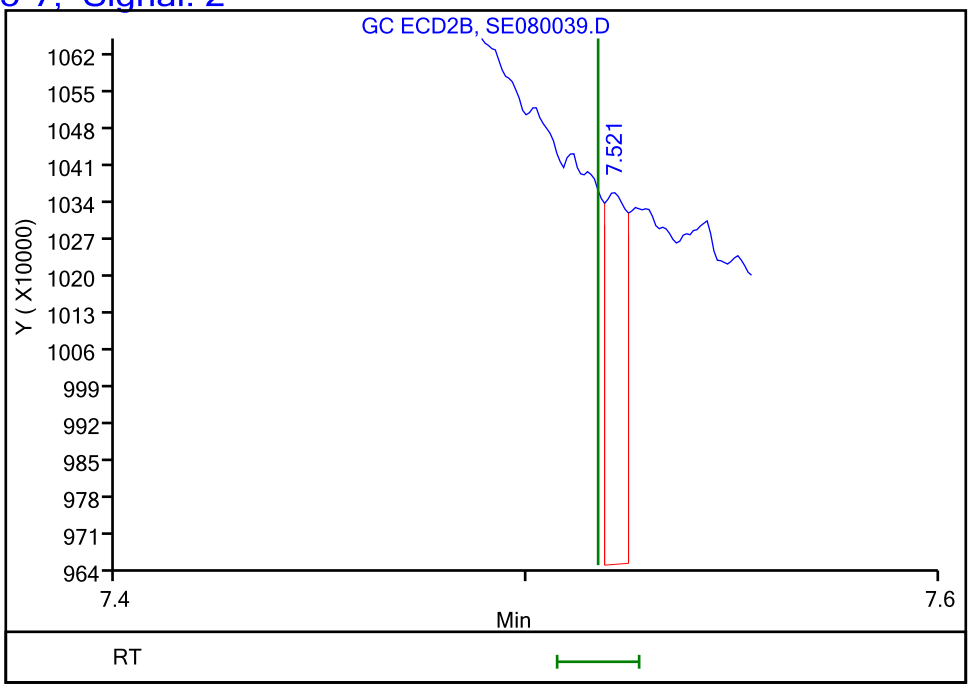
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D
Injection Date: 09-May-2018 01:14:39 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

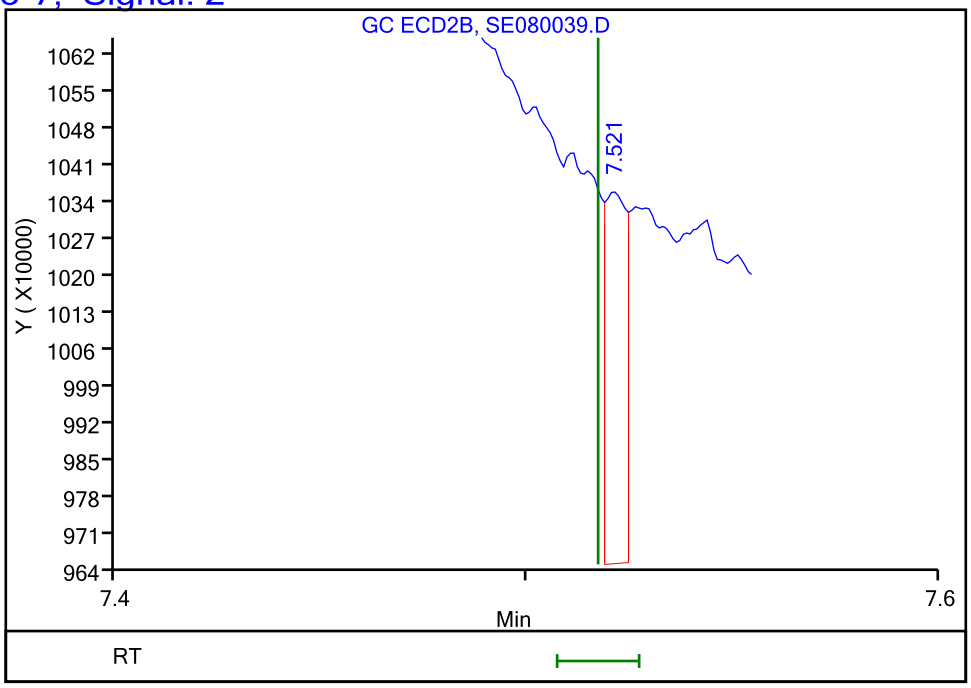
RT: 7.52
Response: 240112
Amount: 0.000151



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 240112
Amount: 0.000151



Reviewer: kellarj, 09-May-2018 09:22:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151914-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 680-522541/11-A

Matrix: Solid | Lab File ID: SE080031.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.59(g) | Date Analyzed: 05/08/2018 22:38

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	8.90		8.1	4.2	2.3
94-75-7	2,4-D	44.5		8.1	8.1	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	54		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080031.D
Lims ID: LCS 680-522541/11-A
Client ID:
Sample Type: LCS
Inject. Date: 08-May-2018 22:38:36 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-031
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:51 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:29:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	83977915	0.2000	0.1602	
2	2.632	2.632	0.000	193328681	0.2000	0.1199	
						RPD = 28.76	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	16997350	NC	NC	
2	5.102	5.102	0.000	88978142	NC	NC	
						RPD = 5.43	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	178016998	NC	NC	
2	5.777	5.776	0.001	722131967	NC	NC	
						RPD = 5.64	
4 3,5-Dichlorobenzoic acid							M
1	6.123	6.124	-0.001	51178561	0.2000	0.1592	M
2	6.116	6.116	0.000	252259500	0.2000	0.1404	
						RPD = 12.58	
5 4-Nitrophenol							M
1	6.251	6.253	-0.002	27190981	0.2000	0.2941	M
2	6.503	6.505	-0.002	80332197	0.2000	0.2686	
						RPD = 9.05	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.682	6.683	-0.001	26147601	0.2000	0.1236	M
2	6.828	6.829	-0.001	152742612	0.2000	0.1085	
						RPD = 13.04	
7 Dicamba							M
1	6.720	6.720	0.000	84851579	0.1000	0.0788	M
2	6.911	6.910	0.001	370093579	0.1000	0.0739	
						RPD = 6.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	4538433	20.0	9.59	M
2	6.956	6.955	0.001	37406683	20.0	7.70	
						RPD = 21.82	
9 MCPA							M
1	6.994	6.994	0.000	10987097	20.0	11.9	M
2	7.155	7.155	0.000	83804849	20.0	14.3	
						RPD = 18.75	
10 Dichlorprop							M
1	7.181	7.180	0.001	30283619	0.2000	0.1091	M
2	7.298	7.297	0.001	127406227	0.2000	0.0904	
						RPD = 18.81	
11 2,4-D							M
1	7.323	7.326	-0.003	50602303	0.2000	0.1673	M
2	7.515	7.517	-0.002	217039232	0.2000	0.1362	
						RPD = 20.52	
12 Pentachlorophenol							M
1	7.673	7.674	-0.001	197004023	0.0500	0.0366	M
2	7.714	7.714	0.000	675390441	0.0500	0.0359	
						RPD = 1.88	
13 Silvex (2,4,5-TP)							M
1	7.767	7.769	-0.002	54876357	0.0500	0.0292	M
2	7.845	7.846	-0.001	194520506	0.0500	0.0263	
						RPD = 10.42	
14 Chloramben							M
1	7.849	7.855	-0.006	162603579	0.2000	0.1058	M
2	8.158	8.162	-0.004	591965188	0.2000	0.1052	
						RPD = 0.57	
15 2,4,5-T							M
1	7.923	7.929	-0.006	62905916	0.0500	0.0287	M
2	8.079	8.083	-0.004	180973536	0.0500	0.0272	
						RPD = 5.17	
16 2,4-DB							M
1	8.168	8.175	-0.007	14739200	0.2000	0.0977	M
2	8.297	8.302	-0.005	36947342	0.2000	0.0375	
						RPD = 89.12	
17 Dinoseb							M
1	8.222	8.224	-0.002	127464708	0.2000	0.1041	M
2	8.247	8.248	-0.001	409994956	0.2000	0.0952	
						RPD = 8.97	
18 Bentazon							M
1	8.298	8.300	-0.002	43923380	0.2000	0.1527	M
2	8.661	8.662	-0.001	122227001	0.2000	0.1520	
						RPD = 0.47	
19 Picloram							M
1	8.522	8.529	-0.007	391520728	0.2000	0.1538	M
2	9.003	9.005	-0.002	1348730663	0.2000	0.1292	
						RPD = 17.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.622	8.623	-0.001	535390256	0.2000	0.1626	M
2	8.776	8.775	0.001	1600305347	0.2000	0.1629	
						RPD = 0.23	
21 Acifluorfen							
1	9.663	9.666	-0.003	338049880	0.2000	0.1426	
2	9.791	9.792	-0.001	1028601509	0.2000	0.1415	
						RPD = 0.78	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

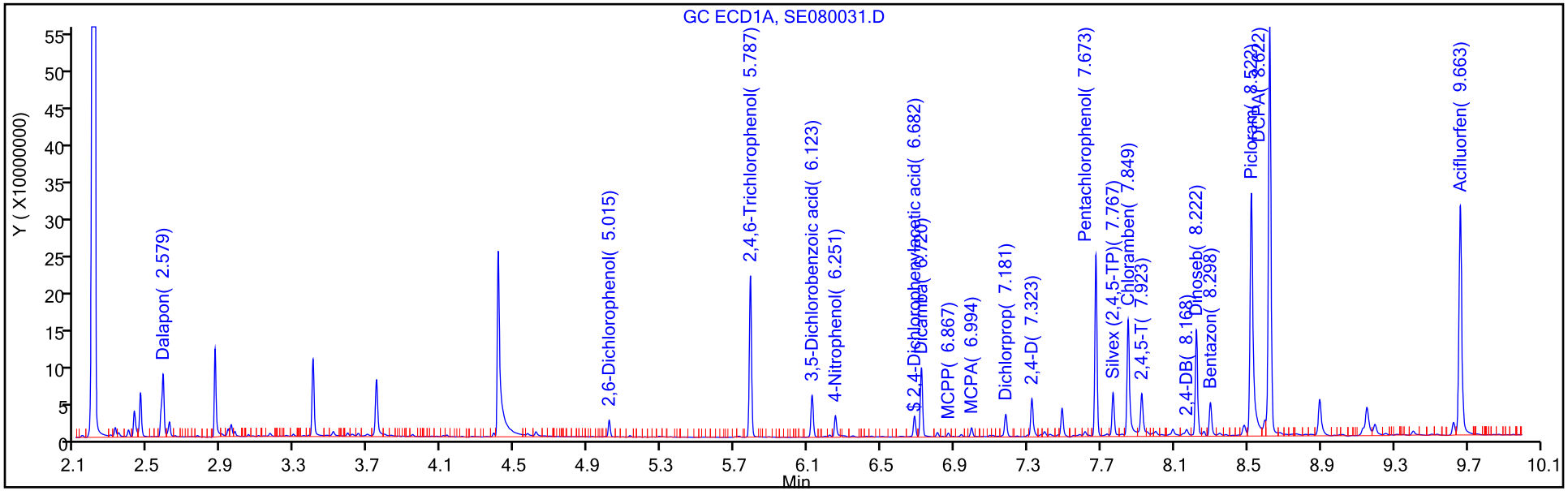
Report Date: 09-May-2018 09:37:22 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

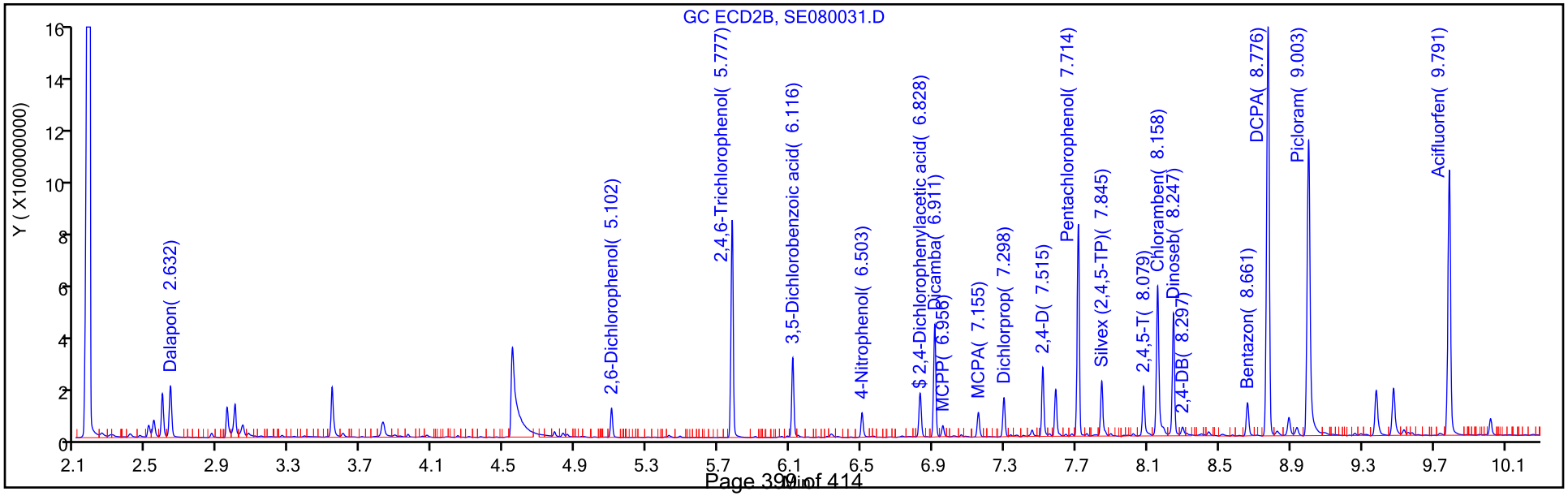
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080031.D

Injection Date:	08-May-2018 22:38:36	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	LCS 680-522541/11-A			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080031.D				
Lims ID:	LCS 680-522541/11-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	08-May-2018 22:38:36	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-031				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:29:46		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1236	61.82

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1085	54.25

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Start Date: 05/08/2018 11:58

Analysis Batch Number: 523063 End Date: 05/09/2018 08:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-523063/4		05/08/2018 11:58	1	SE080004.D	DB-XLB 0.32(mm)
IC 680-523063/4		05/08/2018 11:58	1	SE080004.D	DB-35MS 0.32(mm)
IC 680-523063/5		05/08/2018 12:17	1	SE080005.D	DB-XLB 0.32(mm)
IC 680-523063/5		05/08/2018 12:17	1	SE080005.D	DB-35MS 0.32(mm)
IC 680-523063/6		05/08/2018 12:37	1	SE080006.D	DB-XLB 0.32(mm)
IC 680-523063/6		05/08/2018 12:37	1	SE080006.D	DB-35MS 0.32(mm)
IC 680-523063/7		05/08/2018 12:56	1	SE080007.D	DB-XLB 0.32(mm)
IC 680-523063/7		05/08/2018 12:56	1	SE080007.D	DB-35MS 0.32(mm)
IC 680-523063/8		05/08/2018 13:16	1	SE080008.D	DB-XLB 0.32(mm)
IC 680-523063/8		05/08/2018 13:16	1	SE080008.D	DB-35MS 0.32(mm)
IC 680-523063/9		05/08/2018 13:36	1	SE080009.D	DB-XLB 0.32(mm)
IC 680-523063/9		05/08/2018 13:36	1	SE080009.D	DB-35MS 0.32(mm)
IC 680-523063/10		05/08/2018 13:55	1	SE080010.D	DB-XLB 0.32(mm)
IC 680-523063/10		05/08/2018 13:55	1	SE080010.D	DB-35MS 0.32(mm)
IC 680-523063/11		05/08/2018 14:15	1	SE080011.D	DB-XLB 0.32(mm)
IC 680-523063/11		05/08/2018 14:15	1	SE080011.D	DB-35MS 0.32(mm)
ICV 680-523063/12 CCV		05/08/2018 14:35	1	SE080012.D	DB-XLB 0.32(mm)
ICV 680-523063/12 CCV		05/08/2018 14:35	1	SE080012.D	DB-35MS 0.32(mm)
PIBLK 680-523063/14		05/08/2018 15:14	1		DB-XLB 0.32(mm)
PIBLK 680-523063/14		05/08/2018 15:14	1		DB-35MS 0.32(mm)
CCV 680-523063/28		05/08/2018 21:40	1	SE080028.D	DB-XLB 0.32(mm)
CCV 680-523063/28		05/08/2018 21:40	1	SE080028.D	DB-35MS 0.32(mm)
PIBLK 680-523063/29		05/08/2018 21:59	1	SE080029.D	DB-XLB 0.32(mm)
PIBLK 680-523063/29		05/08/2018 21:59	1	SE080029.D	DB-35MS 0.32(mm)
MB 680-522541/10-A		05/08/2018 22:19	1	SE080030.D	DB-XLB 0.32(mm)
MB 680-522541/10-A		05/08/2018 22:19	1	SE080030.D	DB-35MS 0.32(mm)
LCS 680-522541/11-A		05/08/2018 22:38	1	SE080031.D	DB-XLB 0.32(mm)
LCS 680-522541/11-A		05/08/2018 22:38	1	SE080031.D	DB-35MS 0.32(mm)
ZZZZZ		05/08/2018 22:58	1		DB-XLB 0.32(mm)
ZZZZZ		05/08/2018 22:58	1		DB-35MS 0.32(mm)
ZZZZZ		05/08/2018 23:17	1		DB-XLB 0.32(mm)
ZZZZZ		05/08/2018 23:17	1		DB-35MS 0.32(mm)
ZZZZZ		05/08/2018 23:36	1		DB-XLB 0.32(mm)
ZZZZZ		05/08/2018 23:36	1		DB-35MS 0.32(mm)
680-151914-1		05/08/2018 23:56	1	SE080035.D	DB-XLB 0.32(mm)
680-151914-1		05/08/2018 23:56	1	SE080035.D	DB-35MS 0.32(mm)
680-151914-2		05/09/2018 00:16	1	SE080036.D	DB-XLB 0.32(mm)
680-151914-2		05/09/2018 00:16	1	SE080036.D	DB-35MS 0.32(mm)
680-151914-3		05/09/2018 00:35	1	SE080037.D	DB-XLB 0.32(mm)
680-151914-3		05/09/2018 00:35	1	SE080037.D	DB-35MS 0.32(mm)
CCV 680-523063/38		05/09/2018 00:55	1	SE080038.D	DB-XLB 0.32(mm)
CCV 680-523063/38		05/09/2018 00:55	1	SE080038.D	DB-35MS 0.32(mm)
PIBLK 680-523063/39		05/09/2018 01:14	1	SE080039.D	DB-XLB 0.32(mm)
PIBLK 680-523063/39		05/09/2018 01:14	1	SE080039.D	DB-35MS 0.32(mm)

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: CSGS Start Date: 05/08/2018 11:58

Analysis Batch Number: 523063 End Date: 05/09/2018 08:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-523063/48		05/09/2018 04:10	1		DB-XLB 0.32(mm)
CCV 680-523063/48		05/09/2018 04:10	1		DB-35MS 0.32(mm)
PIBLK 680-523063/49		05/09/2018 04:30	1		DB-XLB 0.32(mm)
PIBLK 680-523063/49		05/09/2018 04:30	1		DB-35MS 0.32(mm)
CCV 680-523063/61		05/09/2018 08:24	1		DB-XLB 0.32(mm)
CCV 680-523063/61		05/09/2018 08:24	1		DB-35MS 0.32(mm)
PIBLK 680-523063/62		05/09/2018 08:44	1		DB-XLB 0.32(mm)
PIBLK 680-523063/62		05/09/2018 08:44	1		DB-35MS 0.32(mm)

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Batch Number: 522541 Batch Start Date: 05/03/18 11:22 Batch Analyst: McKinnon, Heather D

Batch Method: 8151A Batch End Date: 05/08/18 14:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HERBwkLCS 00049	SG HerbwkSurr 00044		
680-151914-A-1	GQ007	8151A, 8151A DOD	T	30.01 g	10 mL		1 mL		
680-151914-A-2	GQ008	8151A, 8151A DOD	T	30.03 g	10 mL		1 mL		
680-151914-A-3	GQ009	8151A, 8151A DOD	T	30.03 g	10 mL		1 mL		
MB 680-522541/10		8151A, 8151A DOD		30.02 g	10 mL		1 mL		
LCS 680-522541/11		8151A, 8151A DOD		30.59 g	10 mL	1 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Batch Number: 522541 Batch Start Date: 05/03/18 11:22 Batch Analyst: McKinnon, Heather D

Batch Method: 8151A Batch End Date: 05/08/18 14:24

Batch Notes	
Balance ID	34
Batch Comment	BOX RC
Carbitol ID	5424057
Concentration End Time	1424
Concentration Start Time	0800
Diazald ID	5424071
Diethyl Ether ID	5389783
Sulfuric Acid Lot Number	5423977
Potassium Hydroxide ID	5370090
MeCL2 ID	5428080
Acidified Methanol ID	5442092
MTBE ID	5424031
N-evap ID	N-EVAP
Na2SO4 ID	5222493
NaOH Lot #	5423983
Ottawa Sand ID	5407071
pH Paper ID	5426313
Pipette ID	GE38/CC40G
Analyst ID - Reagent Drop	VT
Silica Gel ID	4252783
Silicic Acid ID	5183663
Uncorrected Temperature	EXKD2 77.0 EXKD3 77.6 EXKD4 Degrees C
Water Bath ID	EXKD2 EXKD3 EXKD4
Water Bath Temperature	EXKD2 77.0 EXKD3 77.3 EXKD4 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151914-1

SDG No.:

Project: Andersen AFB, Guam - Herbicides

Client Sample ID	Lab Sample ID
GQ007	680-151914-1
GQ008	680-151914-2
GQ009	680-151914-3

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151914-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/01/2005 13:43

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151914-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/09/2011 17:03

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 05/07/2018 16:07 End Date: 05/07/2018 16:07

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
680-151914-1	1	T	16:07	X	X																								
680-151914-2	1	T	16:07	X	X																								
680-151914-3	1	T	16:07	X	X																								
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151914-1

SDG No.:

Batch Number: 523856 Batch Start Date: 05/07/18 16:07 Batch Analyst: Chamberlain, Kim A

Batch Method: Moisture Batch End Date: 05/08/18 09:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
680-151914-A-1	GQ007	Moisture	T	1.021 g	6.433 g	6.205 g			
680-151914-A-2	GQ008	Moisture	T	1.234 g	6.71 g	6.582 g			
680-151914-A-3	GQ009	Moisture	T	1.248 g	6.31 g	6.129 g			

Batch Notes	
Balance ID	NA- see documents
Oven ID	Na- See documents

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MOISTURE CONTENT DETERMINATION

Analytical Batch:	18MCE001	Start Date/Time:	05/07/18	16:07	Temp IN (°C): 105
Instrument ID:	10601202	End Date/Time:	05/08/18	9:37	Temp Out (°C): 105

Sample ID	Weight of Dish (g)	Wet Weight+ Dish (g)	Dry Weight+ Dish (g)	Percent Solids	Percent Moisture	NOTES
680-151865-1 D194-01	1.239	6.426	6.353	98.6%	1.4%	
D194-02 -2	1.016	5.069	5.029	99.0%	1.0%	
D194-03 -3	1.282	6.132	6.077	98.9%	1.1%	
680-151914-1 D202-01	1.021	6.433	6.205	95.8%	4.2%	
D202-02 -2	1.234	6.71	6.582	97.7%	2.3%	
D202-03 -3	1.248	6.31	6.129	96.4%	3.6%	
680-151915-1 D210-01	1.261	6.397	6.003	92.3%	7.7%	
D210-02 -2	1.265	6.535	6.067	91.1%	8.9%	
D210-03 -3	1.29	6.22	5.822	91.9%	8.1%	
E011-01	1.274	8.774	7.713	85.9%	14.1%	
E021-01	1.257	8.331	7.831	92.9%	7.1%	2.5% ✓
E021-01D	1.296	8.334	7.849	93.1%	6.9%	
E021-02	1.295	8.208	7.649	91.9%	8.1%	
E021-03	0.996	8.405	7.918	93.4%	6.6%	
E021-04	1.263	8.151	7.691	93.3%	6.7%	
E021-05	1.413	8.343	7.842	92.8%	7.2%	
E025-01	1.333	8.922	7.876	86.2%	13.8%	
E025-02	1.099	8.255	7.283	86.4%	13.6%	
E025-03	1.269	8.546	7.63	87.4%	12.6%	
E025-04	1.104	8.041	7.146	87.1%	12.9%	
E025-05	1.086	8.271	6.387	73.8%	26.2%	

COMMENT - Comments: Sample D194-02 was limited in amount

Initial Reading by: NCrist

Final Reading by: NCrist

Reviewed by:

Thermometer ID: 660330

Shipping and Receiving Documents

CHAIN OF CUSTODY

EMAX Laboratories, Inc.	1835 W. 205th Street, Torrance, CA 90501 Tel # : 310-618-8889 FAX#: 310-618-0818 Email: info@emaxlabs.com	**PO NUMBER: 18D210** SAMPLE STORAGE	**EMAX CONTROL NO.** 18D210 **PROJECT CODE: AEC1801**

CLIENT : AECOM

PROJECT : ANDERSEN AFB, JQ13

COORDINATOR

TEL FAX EMAIL

SEND REPORT TO BRANT LANDERS

COMPANY AECOM

ADDRESS 1001 BISHOP STREET, SUITE 1600

HONOLULU HI 96813

EMAX PM

MATRIX CODE	PRESERVATIVE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sl	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure P	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: 8151A (2,4-D AND 2,4,5-T) — IP 5/02/18

TAT
☐ Rush __24__ hrs.
☐ Rush __48_hrs
☐ Rush_72_hrs
☐ 7 days
☐ 14 days
☐ 21 days
STANDARD

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	PRESERVATIVE CODE	COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			IC	
1	GQ007		4/25/2018	11:00	1	4OZ	JAR	SS		X	EMAX ID 18D210-01 (ISM SAMPLE)
2	GQ008		4/25/2018	11:05	1	4OZ	JAR	SS		X	EMAX ID 18D210-02 (ISM SAMPLE)
3	GQ009		4/25/2018	11:10	1	4OZ	JAR	SS		X	EMAX ID 18D219-03 (ISM SAMPLE)

LP 5/02/18

Instructions :

PLEASE FOLLOW PROJECT DATA REQUIREMENTS FROM AECOM.

Project Number: #60540676

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	05/02/18	14:35	
KMR	5/3/18		5/4/18 0900
			5/3/18 3.5(3.4)

Cooler #	Temp. (°C)

Sample #s

Subcontract to:

TA Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
Main Phone: **912.354.7858**

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

680-151914 Chain of Custody

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 680-151914-1

Login Number: 151914

List Source: TestAmerica Savannah

List Number: 1

Creator: Chamberlain, Kim A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-151915-1

Job Description: Andersen AFB, Guam - Herbicides

For:
AECOM Technical Services Inc.
1001 Bishop Street
Ste 1600
Honolulu, HI 96813

Attention: Dr. Brant Landers



Approved for release.
Stephanie K Rothmeyer
Project Manager I
5/15/2018 4:14 PM

Designee for
Patrick J McEntee, Manager of Project Management
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0107
patrick.mcentee@testamericainc.com
05/15/2018

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Case Narrative 5

Detection Summary 6

Client Sample Results 7

Default Detection Limits 8

Surrogate Summary 9

QC Sample Results 10

QC Association 11

Chronicle 12

Certification Summary 13

Method Summary 15

Sample Summary 16

Manual Integration Summary 17

Reagent Traceability 24

COAs 75

Organic Sample Data 133

GC Semi VOA 133

Method 8151 DOD 133

Method 8151 DOD QC Summary 134

Method 8151 DOD Sample Data 139

Standards Data 153

Method 8151 DOD ICAL Data 153

Method 8151 DOD CCAL Data 287

Raw QC Data 371

Table of Contents

Method 8151 DOD Blank Data 371

Method 8151 DOD LCS/LCSD Data 396

Method 8151 DOD Run Logs 402

Method 8151 DOD Prep Data 404

Inorganic Sample Data 406

General Chemistry Data 406

Gen Chem Cover Page 407

Gen Chem MDL 408

Gen Chem Analysis Run Log 410

Gen Chem Prep Data 411

Gen Chem Raw Data 412

Shipping and Receiving Documents 413

Client Chain of Custody 414

Sample Receipt Checklist 415

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: Andersen AFB, Guam - Herbicides

Report Number: 680-151915-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 5/3/2018 at 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4º C.

Receipt Exceptions
ISM preparation was performed by EMAX Laboratories for the requested 8151 Herbicides analyses performed by TestAmerica.

Percent moisture analysis was performed by EMAX Laboratories and data was provided to TestAmerica for dry weight correction on analytical results.

CHLORINATED HERBICIDES
Samples GQ004 (680-151915-1), GQ005 (680-151915-2) and GQ006 (680-151915-3) were analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 05/03/2018 and analyzed on 05/08/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS
Samples GQ004 (680-151915-1), GQ005 (680-151915-2) and GQ006 (680-151915-3) were analyzed for percent solids in accordance with ASTM D2216-90. The samples were analyzed on 05/07/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151915-1

Client Sample ID: GQ004 — Lab Sample ID: 680-151915-1

No Detections.

Client Sample ID: GQ005 — Lab Sample ID: 680-151915-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2,4-D	8.3	J	9.1	5.5	ug/Kg	1	☼	8151A DOD	Total/NA

Client Sample ID: GQ006 — Lab Sample ID: 680-151915-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: GQ004 — Lab Sample ID: 680-151915-1

Date Collected: 04/24/18 11:40 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 92.3**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.7	U M	9.0	2.5	ug/Kg	☼	05/03/18 11:22	05/08/18 22:58	1
2,4-D	9.0	U	9.0	5.4	ug/Kg	☼	05/03/18 11:22	05/08/18 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*96*		*27 - 122*	*05/03/18 11:22*	*05/08/18 22:58*	*1*

Client Sample ID: GQ005 — Lab Sample ID: 680-151915-2

Date Collected: 04/24/18 11:45 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 91.1**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.7	U	9.1	2.5	ug/Kg	☼	05/03/18 11:22	05/08/18 23:17	1
2,4-D	**8.3**	**J**	9.1	5.5	ug/Kg	☼	05/03/18 11:22	05/08/18 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*93*		*27 - 122*	*05/03/18 11:22*	*05/08/18 23:17*	*1*

Client Sample ID: GQ006 — Lab Sample ID: 680-151915-3

Date Collected: 04/24/18 11:50 — **Matrix: Solid**
Date Received: 05/03/18 09:00 — **Percent Solids: 91.9**

Method: 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.7	U	9.0	2.5	ug/Kg	☼	05/03/18 11:22	05/08/18 23:36	1
2,4-D	9.0	U M	9.0	5.4	ug/Kg	☼	05/03/18 11:22	05/08/18 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*97*		*27 - 122*	*05/03/18 11:22*	*05/08/18 23:36*	*1*

Default Detection Limits

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151915-1

Method: 8151A DOD - Herbicides (GC)

Prep: 8151A

Analyte	LOQ	DL	Units	Method
2,4,5-T	8.3	2.3	ug/Kg	8151A DOD
2,4-D	8.3	5.0	ug/Kg	8151A DOD

Surrogate Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151915-1

Method: 8151A DOD - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA2 (27-122)
680-151915-1	GQ004	96
680-151915-2	GQ005	93
680-151915-3	GQ006	97
LCS 680-522541/11-A	Lab Control Sample	54
MB 680-522541/10-A	Method Blank	52

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

Method: 8151A DOD - Herbicides (GC)

Lab Sample ID: MB 680-522541/10-A
Matrix: Solid
Analysis Batch: 523063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 522541

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	4.3	U M	8.3	2.3	ug/Kg		05/03/18 11:22	05/08/18 22:19	1
2,4-D	8.3	U	8.3	5.0	ug/Kg		05/03/18 11:22	05/08/18 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid (Surr)	*52*		*27 - 122*	*05/03/18 11:22*	*05/08/18 22:19*	*1*

Lab Sample ID: LCS 680-522541/11-A
Matrix: Solid
Analysis Batch: 523063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			16.3	8.90		ug/Kg		54	31 - 138		
2,4-D			65.4	44.5		ug/Kg		68	28 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid (Surr)	*54*		*27 - 122*

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151915-1

GC Semi VOA

Prep Batch: 522541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151915-1	GQ004	Total/NA	Solid	8151A	
680-151915-2	GQ005	Total/NA	Solid	8151A	
680-151915-3	GQ006	Total/NA	Solid	8151A	
MB 680-522541/10-A	Method Blank	Total/NA	Solid	8151A	
LCS 680-522541/11-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 523063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151915-1	GQ004	Total/NA	Solid	8151A DOD	522541
680-151915-2	GQ005	Total/NA	Solid	8151A DOD	522541
680-151915-3	GQ006	Total/NA	Solid	8151A DOD	522541
MB 680-522541/10-A	Method Blank	Total/NA	Solid	8151A DOD	522541
LCS 680-522541/11-A	Lab Control Sample	Total/NA	Solid	8151A DOD	522541

General Chemistry

Analysis Batch: 523856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151915-1	GQ004	Total/NA	Solid	Moisture	
680-151915-2	GQ005	Total/NA	Solid	Moisture	
680-151915-3	GQ006	Total/NA	Solid	Moisture	

Client Sample ID: GQ004
Date Collected: 04/24/18 11:40
Date Received: 05/03/18 09:00

Lab Sample ID: 680-151915-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ004
Date Collected: 04/24/18 11:40
Date Received: 05/03/18 09:00

Lab Sample ID: 680-151915-1
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522541	05/03/18 11:22	HDM	TAL SAV
Total/NA	Analysis	8151A DOD		1	523063	05/08/18 22:58	JCK	TAL SAV

Client Sample ID: GQ005
Date Collected: 04/24/18 11:45
Date Received: 05/03/18 09:00

Lab Sample ID: 680-151915-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ005
Date Collected: 04/24/18 11:45
Date Received: 05/03/18 09:00

Lab Sample ID: 680-151915-2
Matrix: Solid
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522541	05/03/18 11:22	HDM	TAL SAV
Total/NA	Analysis	8151A DOD		1	523063	05/08/18 23:17	JCK	TAL SAV

Client Sample ID: GQ006
Date Collected: 04/24/18 11:50
Date Received: 05/03/18 09:00

Lab Sample ID: 680-151915-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	523856	05/07/18 16:07	KAC	TAL SAV

Client Sample ID: GQ006
Date Collected: 04/24/18 11:50
Date Received: 05/03/18 09:00

Lab Sample ID: 680-151915-3
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			522541	05/03/18 11:22	HDM	TAL SAV
Total/NA	Analysis	8151A DOD		1	523063	05/08/18 23:36	JCK	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 680-151915-1
Project/Site: Andersen AFB, Guam - Herbicides

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-19
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		P330-17-00213	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. TestAmerica Job ID: 680-151915-1
Project/Site: Andersen AFB, Guam - Herbicides

Laboratory: TestAmerica Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19
New Jersey	NELAP	2	CO004	06-30-18

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151915-1

Method	Method Description	Protocol	Laboratory
8151A DOD	Herbicides (GC)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV
8151A	Extraction (Herbicides)	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Andersen AFB, Guam - Herbicides

TestAmerica Job ID: 680-151915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-151915-1	GQ004	Solid	04/24/18 11:40	05/03/18 09:00
680-151915-2	GQ005	Solid	04/24/18 11:45	05/03/18 09:00
680-151915-3	GQ006	Solid	04/24/18 11:50	05/03/18 09:00

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: IC 680-523063/4 Client Sample ID:

Date Analyzed: 05/08/18 11:58 Lab File ID: SE080004.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:07
Acifluorfen	9.80	Baseline Smoothing	kellarj	05/08/18 16:07

Lab Sample ID: IC 680-523063/8 Client Sample ID:

Date Analyzed: 05/08/18 13:16 Lab File ID: SE080008.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MCPA	7.16	Baseline Smoothing	kellarj	05/08/18 16:10
Dichlorprop	7.30	Baseline Smoothing	kellarj	05/08/18 16:10
2,4-D	7.52	Baseline Smoothing	kellarj	05/08/18 16:10
Pentachlorophenol	7.71	Baseline Smoothing	kellarj	05/08/18 16:10
Silvex (2,4,5-TP)	7.85	Baseline Smoothing	kellarj	05/08/18 16:10
2,4,5-T	8.08	Baseline Smoothing	kellarj	05/08/18 16:10
Chloramben	8.16	Baseline Smoothing	kellarj	05/08/18 16:10
Dinoseb	8.25	Baseline Smoothing	kellarj	05/08/18 16:10
2,4-DB	8.30	Baseline Smoothing	kellarj	05/08/18 16:10
Bentazon	8.66	Baseline Smoothing	kellarj	05/08/18 16:10
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	Baseline Smoothing	kellarj	05/08/18 16:10
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:10

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: IC 680-523063/11 Client Sample ID:

Date Analyzed: 05/08/18 14:15 Lab File ID: SE080011.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrophenol	6.26	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-D	7.35	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-DB	8.19	Baseline Smoothing	kellarj	05/08/18 16:11
Picloram	8.55	Baseline Smoothing	kellarj	05/08/18 16:11

Lab Sample ID: IC 680-523063/11 Client Sample ID:

Date Analyzed: 05/08/18 14:15 Lab File ID: SE080011.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrophenol	6.52	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-D	7.53	Baseline Smoothing	kellarj	05/08/18 16:11
2,4-DB	8.31	Baseline Smoothing	kellarj	05/08/18 16:11
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:11

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: ICV 680-523063/12 CCV Client Sample ID:

Date Analyzed: 05/08/18 14:35 Lab File ID: SE080012.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrophenol	6.51	Baseline Smoothing	kellarj	05/08/18 16:12
2,4-Dichlorophenylacetic acid (Surr)	6.83	Baseline Smoothing	kellarj	05/08/18 16:12
Dicamba	6.91	Baseline Smoothing	kellarj	05/08/18 16:12
MCPP	6.96	Baseline Smoothing	kellarj	05/08/18 16:12
MCPA	7.16	Baseline Smoothing	kellarj	05/08/18 16:12
Dichlorprop	7.30	Baseline Smoothing	kellarj	05/08/18 16:12
2,4-D	7.52	Baseline Smoothing	kellarj	05/08/18 16:12
Pentachlorophenol	7.72	Baseline Smoothing	kellarj	05/08/18 16:12
Silvex (2,4,5-TP)	7.85	Baseline Smoothing	kellarj	05/08/18 16:12
2,4,5-T	8.08	Baseline Smoothing	kellarj	05/08/18 16:12
Chloramben	8.16	Baseline Smoothing	kellarj	05/08/18 16:12
Dinoseb	8.25	Baseline Smoothing	kellarj	05/08/18 16:12
2,4-DB	8.30	Baseline Smoothing	kellarj	05/08/18 16:12
Bentazon	8.66	Baseline Smoothing	kellarj	05/08/18 16:12
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	Baseline Smoothing	kellarj	05/08/18 16:12
Picloram	9.01	Baseline Smoothing	kellarj	05/08/18 16:12
Acifluorfen	9.80	Baseline Smoothing	kellarj	05/08/18 16:12

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: CCV 680-523063/28 Client Sample ID:

Date Analyzed: 05/08/18 21:40 Lab File ID: SE080028.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.68	Baseline Smoothing	kellarj	05/09/18 09:21
Dicamba	6.72	Baseline Smoothing	kellarj	05/09/18 09:21
MCPP	6.87	Baseline Smoothing	kellarj	05/09/18 09:21
MCPA	6.99	Baseline Smoothing	kellarj	05/09/18 09:21
Dichlorprop	7.18	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-D	7.33	Baseline Smoothing	kellarj	05/09/18 09:21
Pentachlorophenol	7.67	Baseline Smoothing	kellarj	05/09/18 09:21
Silvex (2,4,5-TP)	7.77	Baseline Smoothing	kellarj	05/09/18 09:21
Chloramben	7.86	Baseline Smoothing	kellarj	05/09/18 09:21
2,4,5-T	7.93	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-DB	8.18	Baseline Smoothing	kellarj	05/09/18 09:21
Dinoseb	8.22	Baseline Smoothing	kellarj	05/09/18 09:21
Bentazon	8.30	Baseline Smoothing	kellarj	05/09/18 09:21
Picloram	8.53	Baseline Smoothing	kellarj	05/09/18 09:21
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	Baseline Smoothing	kellarj	05/09/18 09:21
Acifluorfen	9.67	Baseline Smoothing	kellarj	05/09/18 09:21

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: CCV 680-523063/28 Client Sample ID:

Date Analyzed: 05/08/18 21:40 Lab File ID: SE080028.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.83	Baseline Smoothing	kellarj	05/09/18 09:21
Dicamba	6.91	Baseline Smoothing	kellarj	05/09/18 09:21
MCPP	6.96	Baseline Smoothing	kellarj	05/09/18 09:21
MCPA	7.15	Baseline Smoothing	kellarj	05/09/18 09:21
Dichlorprop	7.30	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-D	7.52	Baseline Smoothing	kellarj	05/09/18 09:21
Pentachlorophenol	7.71	Baseline Smoothing	kellarj	05/09/18 09:21
Silvex (2,4,5-TP)	7.85	Baseline Smoothing	kellarj	05/09/18 09:21
2,4,5-T	8.08	Baseline Smoothing	kellarj	05/09/18 09:21
Chloramben	8.16	Baseline Smoothing	kellarj	05/09/18 09:21
Dinoseb	8.25	Baseline Smoothing	kellarj	05/09/18 09:21
2,4-DB	8.30	Baseline Smoothing	kellarj	05/09/18 09:21
Bentazon	8.66	Baseline Smoothing	kellarj	05/09/18 09:21
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	Baseline Smoothing	kellarj	05/09/18 09:21
Picloram	9.01	Baseline Smoothing	kellarj	05/09/18 09:21

Lab Sample ID: PIBLK 680-523063/29 Client Sample ID:

Date Analyzed: 05/08/18 21:59 Lab File ID: SE080029.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/09/18 09:21

Lab Sample ID: PIBLK 680-523063/29 Client Sample ID:

Date Analyzed: 05/08/18 21:59 Lab File ID: SE080029.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: MB 680-522541/10-A Client Sample ID:

Date Analyzed: 05/08/18 22:19 Lab File ID: SE080030.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Invalid Compound ID	kellarj	05/09/18 09:29

Lab Sample ID: MB 680-522541/10-A Client Sample ID:

Date Analyzed: 05/08/18 22:19 Lab File ID: SE080030.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Unspecified		

Lab Sample ID: LCS 680-522541/11-A Client Sample ID:

Date Analyzed: 05/08/18 22:38 Lab File ID: SE080031.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenylacetic acid (Surr)	6.68	Baseline Smoothing	kellarj	05/09/18 09:29
2,4-D	7.32	Baseline Smoothing	kellarj	05/09/18 09:29
2,4,5-T	7.92	Baseline Smoothing	kellarj	05/09/18 09:29

Lab Sample ID: 680-151915-1 Client Sample ID: GQ004

Date Analyzed: 05/08/18 22:58 Lab File ID: SE080032.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Invalid Compound ID	kellarj	05/09/18 09:30

HERBICIDES MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Analysis Batch Number: 523063

Lab Sample ID: 680-151915-1 Client Sample ID: GQ004

Date Analyzed: 05/08/18 22:58 Lab File ID: SE080032.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,5-T		Unspecified		

Lab Sample ID: 680-151915-3 Client Sample ID: GQ006

Date Analyzed: 05/08/18 23:36 Lab File ID: SE080034.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/09/18 09:30

Lab Sample ID: 680-151915-3 Client Sample ID: GQ006

Date Analyzed: 05/08/18 23:36 Lab File ID: SE080034.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

Lab Sample ID: PIBLK 680-523063/39 Client Sample ID:

Date Analyzed: 05/09/18 01:14 Lab File ID: SE080039.D GC Column: DB-XLB ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Invalid Compound ID	kellarj	05/09/18 09:22

Lab Sample ID: PIBLK 680-523063/39 Client Sample ID:

Date Analyzed: 05/09/18 01:14 Lab File ID: SE080039.D GC Column: DB-35MS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-D		Unspecified		

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HERBwkLCS_00049	05/05/18	04/25/18	meoh, Lot SG_meOH_00004	200 mL	HERBICVMASTER_00013	20 mL	2,4,6-Trichlorophenol	1 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							3,5-Dichlorobenzoic acid	2 ug/mL
							4-Nitrophenol	2 ug/mL
							Acifluorfen	2 ug/mL
							Bentazon	2 ug/mL
							Chloramben	2 ug/mL
							DCPA	2 ug/mL
							2,4,5-T	0.5 ug/mL
							2,4-D	2 ug/mL
							2,4-DB	2 ug/mL
							Dalapon	2 ug/mL
							Dicamba	1 ug/mL
							Dichlorprop	2 ug/mL
							Dinoseb	2 ug/mL
							MCPA	200 ug/mL
							MCPP	200 ug/mL
							Pentachlorophenol	0.5 ug/mL
							Picloram	2 ug/mL
							Silvex (2,4,5-TP)	0.5 ug/mL
					HERBMASTER_00032	20 mL	2,4,5-T	0.5 ug/mL
							2,4-D	2 ug/mL
							2,4-DB	2 ug/mL
							Dalapon	2 ug/mL
							Dicamba	1 ug/mL
							Dichlorprop	2 ug/mL
							Dinoseb	2 ug/mL
							MCPA	200 ug/mL
							MCPP	200 ug/mL
							Pentachlorophenol	0.5 ug/mL
							Picloram	2 ug/mL
							Silvex (2,4,5-TP)	0.5 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							3,5-Dichlorobenzoic acid	2 ug/mL
							4-Nitrophenol	2 ug/mL
							Acifluorfen	2 ug/mL
							Bentazon	2 ug/mL
							Chloramben	2 ug/mL
							DCPA	2 ug/mL
.HERBICVMASTER_00013	05/05/18	02/05/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHERBADDICV_00013	2.5 mL	2,4,6-Trichlorophenol	5 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DCPA	10 ug/mL
					SGHerbICV1_00005	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00006	1.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
..SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		2,4,6-Trichlorophenol	100 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
..SGHerbICV1_00005	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
.HERBMASTER_00032	05/05/18	02/05/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHerbList1_00006	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbList1_00008	1.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHMCCALFA_00040	2.5 mL	2,4,6-Trichlorophenol	5 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
..SGHerbList1_00006	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
..SGHMCCALFA_00040	06/30/18		RESTEK, Lot A0123630		(Purchased Reagent)		2,4,6-Trichlorophenol	100 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
SG HerbwkSurr_00044	07/16/18	04/16/18	Methanol, Lot 5248086	500 mL	SGDCAAFA_00054	1 mL	2,4-Dichlorophenylacetic acid (Surr)	2 ug/mL
.SGDCAAFA_00054	10/16/18		Restek, Lot A0128506		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SG HIBLK_00063	11/08/18	05/08/18	MTBE, Lot A0380840	50 mL	DCAAME_00011	500 uL	2,4-Dichlorophenylacetic acid (Surr)	1.004 ug/mL
.DCAAME_00011	11/08/18		Ultra Scientific, Lot CP-4762		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	100.4 ug/mL
SGHERB-1_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.04 mL	3,5-Dichlorobenzoic acid	0.01 ug/mL
							4-Nitrophenol	0.01 ug/mL
							Acifluorfen	0.01 ug/mL
							Bentazon	0.01 ug/mL
							Chloramben	0.01 ug/mL
							DCPA	0.01 ug/mL
							2,4,5-T	0.0025 ug/mL
							2,4-D	0.01 ug/mL
							2,4-DB	0.01 ug/mL
							Dalapon	0.01 ug/mL
							Dicamba	0.005 ug/mL
							Dichlorprop	0.01 ug/mL
							Dinoseb	0.01 ug/mL
							MCPA	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1 ug/mL
							Pentachlorophenol	0.0025 ug/mL
							Picloram	0.01 ug/mL
							Silvex (2,4,5-TP)	0.0025 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.01 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-2_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.1 mL	3,5-Dichlorobenzoic acid	0.025 ug/mL
							4-Nitrophenol	0.025 ug/mL
							Acifluorfen	0.025 ug/mL
							Bentazon	0.025 ug/mL
							Chloramben	0.025 ug/mL
							DCPA	0.025 ug/mL
							2,4,5-T	0.00625 ug/mL
							2,4-D	0.025 ug/mL
							2,4-DB	0.025 ug/mL
							Dalapon	0.025 ug/mL
							Dicamba	0.0125 ug/mL
							Dichlorprop	0.025 ug/mL
							Dinoseb	0.025 ug/mL
							MCPA	2.5 ug/mL
							MCPP	2.5 ug/mL
							Pentachlorophenol	0.00625 ug/mL
							Picloram	0.025 ug/mL
							Silvex (2,4,5-TP)	0.00625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.025 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-3_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	0.2 mL	3,5-Dichlorobenzoic acid	0.05 ug/mL
							4-Nitrophenol	0.05 ug/mL
							Acifluorfen	0.05 ug/mL
							Bentazon	0.05 ug/mL
							Chloramben	0.05 ug/mL
							DCPA	0.05 ug/mL
							2,4,5-T	0.0125 ug/mL
							2,4-D	0.05 ug/mL
							2,4-DB	0.05 ug/mL
							Dalapon	0.05 ug/mL
							Dicamba	0.025 ug/mL
							Dichlorprop	0.05 ug/mL
							Dinoseb	0.05 ug/mL
							MCPA	5 ug/mL
							MCPP	5 ug/mL
							Pentachlorophenol	0.0125 ug/mL
							Picloram	0.05 ug/mL
							Silvex (2,4,5-TP)	0.0125 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.05 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-4_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	25 mL	SGHERBCALINT_00030	1 mL	3,5-Dichlorobenzoic acid	0.1 ug/mL
							4-Nitrophenol	0.1 ug/mL
							Acifluorfen	0.1 ug/mL
							Bentazon	0.1 ug/mL
							Chloramben	0.1 ug/mL
							DCPA	0.1 ug/mL
							2,4,5-T	0.025 ug/mL
							2,4-D	0.1 ug/mL
							2,4-DB	0.1 ug/mL
							Dalapon	0.1 ug/mL
							Dicamba	0.05 ug/mL
							Dichlorprop	0.1 ug/mL
							Dinoseb	0.1 ug/mL
							MCPA	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	10 ug/mL
							Pentachlorophenol	0.025 ug/mL
							Picloram	0.1 ug/mL
							Silvex (2,4,5-TP)	0.025 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.1 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-5_00016	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	50 mL	SGHERBCALINT_00030	3.5 mL	3,5-Dichlorobenzoic acid	0.175 ug/mL
							4-Nitrophenol	0.175 ug/mL
							Acifluorfen	0.175 ug/mL
							Bentazon	0.175 ug/mL
							Chloramben	0.175 ug/mL
							DCPA	0.175 ug/mL
							2,4,5-T	0.04375 ug/mL
							2,4-D	0.175 ug/mL
							2,4-DB	0.175 ug/mL
							Dalapon	0.175 ug/mL
							Dicamba	0.0875 ug/mL
							Dichlorprop	0.175 ug/mL
							Dinoseb	0.175 ug/mL
							MCPA	17.5 ug/mL
							MCPP	17.5 ug/mL
							Pentachlorophenol	0.04375 ug/mL
							Picloram	0.175 ug/mL
							Silvex (2,4,5-TP)	0.04375 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.175 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18	Restek, Lot A0132641			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-6_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	1 mL	3,5-Dichlorobenzoic acid	0.25 ug/mL
							4-Nitrophenol	0.25 ug/mL
							Acifluorfen	0.25 ug/mL
							Bentazon	0.25 ug/mL
							Chloramben	0.25 ug/mL
							DCPA	0.25 ug/mL
							2,4,5-T	0.0625 ug/mL
							2,4-D	0.25 ug/mL
							2,4-DB	0.25 ug/mL
							Dalapon	0.25 ug/mL
							Dicamba	0.125 ug/mL
							Dichlorprop	0.25 ug/mL
							Dinoseb	0.25 ug/mL
							MCPA	25 ug/mL
							MCPP	25 ug/mL
							Pentachlorophenol	0.0625 ug/mL
							Picloram	0.25 ug/mL
							Silvex (2,4,5-TP)	0.0625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.25 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-7_00015	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	2 mL	3,5-Dichlorobenzoic acid	0.5 ug/mL
							4-Nitrophenol	0.5 ug/mL
							Acifluorfen	0.5 ug/mL
							Bentazon	0.5 ug/mL
							Chloramben	0.5 ug/mL
							DCPA	0.5 ug/mL
							2,4,5-T	0.125 ug/mL
							2,4-D	0.5 ug/mL
							2,4-DB	0.5 ug/mL
							Dalapon	0.5 ug/mL
							Dicamba	0.25 ug/mL
							Dichlorprop	0.5 ug/mL
							Dinoseb	0.5 ug/mL
							MCPA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	50 ug/mL
							Pentachlorophenol	0.125 ug/mL
							Picloram	0.5 ug/mL
							Silvex (2,4,5-TP)	0.125 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.5 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERB-8_00011	07/31/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBCALINT_00030	4 mL	3,5-Dichlorobenzoic acid	1 ug/mL
							4-Nitrophenol	1 ug/mL
							Acifluorfen	1 ug/mL
							Bentazon	1 ug/mL
							Chloramben	1 ug/mL
							DCPA	1 ug/mL
							2,4,5-T	0.25 ug/mL
							2,4-D	1 ug/mL
							2,4-DB	1 ug/mL
							Dalapon	1 ug/mL
							Dicamba	0.5 ug/mL
							Dichlorprop	1 ug/mL
							Dinoseb	1 ug/mL
							MCPA	100 ug/mL
							MCPP	100 ug/mL
							Pentachlorophenol	0.25 ug/mL
							Picloram	1 ug/mL
							Silvex (2,4,5-TP)	0.25 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	1 ug/mL
.SGHERBCALINT_00030	07/31/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBCALINT_00028	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBCALINT_00029	10 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBCALINT_00028	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBCALINT_00029	07/31/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBICVMASTER_00014	2.5 mL	3,5-Dichlorobenzoic acid	2.5 ug/mL
							4-Nitrophenol	2.5 ug/mL
							Acifluorfen	2.5 ug/mL
							Bentazon	2.5 ug/mL
							Chloramben	2.5 ug/mL
							DCPA	2.5 ug/mL
							2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-DB	2.5 ug/mL
							Dalapon	2.5 ug/mL
							Dicamba	1.25 ug/mL
							Dichlorprop	2.5 ug/mL
							Dinoseb	2.5 ug/mL
							MCPA	250 ug/mL
							MCPP	250 ug/mL
							Pentachlorophenol	0.625 ug/mL
							Picloram	2.5 ug/mL
							Silvex (2,4,5-TP)	0.625 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBICVMASTER_00014	07/31/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHERBADDICV_00013	2.5 mL	3,5-Dichlorobenzoic acid	10 ug/mL
							4-Nitrophenol	10 ug/mL
							Acifluorfen	10 ug/mL
							Bentazon	10 ug/mL
							Chloramben	10 ug/mL
							DCPA	10 ug/mL
					SGHerbICV1_00006	0.2 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00007	1.4 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
					SGHerbICV1_00009	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
							2,4-DB	10 ug/mL
							Dalapon	10 ug/mL
							Dicamba	5 ug/mL
							Dichlorprop	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	10 ug/mL
							MCPA	1000 ug/mL
							MCPP	1000 ug/mL
							Pentachlorophenol	2.5 ug/mL
							Picloram	10 ug/mL
							Silvex (2,4,5-TP)	2.5 ug/mL
....SGHERBADDICV_00013	07/31/18		RESTEK, Lot A0123922		(Purchased Reagent)		3,5-Dichlorobenzoic acid	200 ug/mL
							4-Nitrophenol	200 ug/mL
							Acifluorfen	200 ug/mL
							Bentazon	200 ug/mL
							Chloramben	200 ug/mL
							DCPA	200 ug/mL
....SGHerbICV1_00006	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00007	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL
....SGHerbICV1_00009	07/31/18		Restek, Lot A0120175		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
							2,4-DB	200 ug/mL
							Dalapon	200 ug/mL
							Dicamba	100 ug/mL
							Dichlorprop	200 ug/mL
							Dinoseb	200 ug/mL
							MCPA	20000 ug/mL
							MCPP	20000 ug/mL
							Pentachlorophenol	50 ug/mL
							Picloram	200 ug/mL
							Silvex (2,4,5-TP)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
SGHERBICV_00014	06/30/18	05/08/18	MTBE, Lot ex_mtbe_00073	10 mL	SGHERBICVINT_00037	700 uL	2,4,5-T	0.04375 ug/mL
							2,4-D	0.175 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	0.175 ug/mL
.SGHERBICVINT_00037	06/30/18	05/08/18	MTBE, Lot 4648897	20 mL	SGHERBICVINT_00035	10 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
					SGHERBICVINT_00036	10 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
							2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
..SGHERBICVINT_00035	06/30/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBMASTER_00033	2.5 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBMASTER_00033	06/30/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHerbList1_00007	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00008	0.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00011	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
....SGHerbList1_00007	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00011	11/05/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
...SGDCAAFA_00064	11/07/18		Restek, Lot A0132641		(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL
..SGHERBICVINT_00036	06/30/18	05/07/18	MTBE, Lot 4648897	10 mL	HERBMASTER_00033	2.5 mL	2,4,5-T	0.625 ug/mL
							2,4-D	2.5 ug/mL
					SGDCAAFA_00064	25 uL	2,4-Dichlorophenylacetic acid (Surr)	2.5 ug/mL
...HERBMASTER_00033	06/30/18	05/05/18	MTBE, Lot ex_mtbe_00072	50 mL	SGHerbList1_00007	1.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00008	0.3 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
					SGHerbList1_00011	0.9 mL	2,4,5-T	2.5 ug/mL
							2,4-D	10 ug/mL
....SGHerbList1_00007	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00008	07/31/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL
....SGHerbList1_00011	11/05/18		Restek, Lot A0120183		(Purchased Reagent)		2,4,5-T	50 ug/mL
							2,4-D	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SGDCAAFA_00064	11/07/18	Restek, Lot A0132641			(Purchased Reagent)		2,4-Dichlorophenylacetic acid (Surr)	1000 ug/mL

Reagent

DCAAME_00011

Certificate of Analysis

DCAA Methyl Ester Solution

Product Number: PPS-161 **Page:** 1 of 1

Lot Number: CP-4762 **Lot Issue Date:** 20-Sep-2016 **Expiration Date:** 31-Oct-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
DCAA methyl ester	055954-23-9	RM03071	100.0 ± 0.5 µg/mL

Matrix: methyl tert-butyl ether (MTBE)

Storage: Store at Room Temperature (15° to 30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Vincent Wang, Ph.D.
Director of QA/RA

ISO 9001
Registered
TUV USA, Inc.

250 SMITH STREET • NORTH KINGSTOWN, RHODE ISLAND 02852 • WWW.ULTRASCI.COM

Reagent

SGDCAAFA_00054

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567804 **Lot No.:** A0128506

Description : DCAA Standard

DCAA Standard 1,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4-dichlorophenylacetic acid	1,007.0 µg/mL	+/- 5.9813	µg/mL	Gravimetric
	CAS # 19719-28-9 (Lot S30618V)		+/- 53.5730	µg/mL	Unstressed
	Purity 99%		+/- 53.6627	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

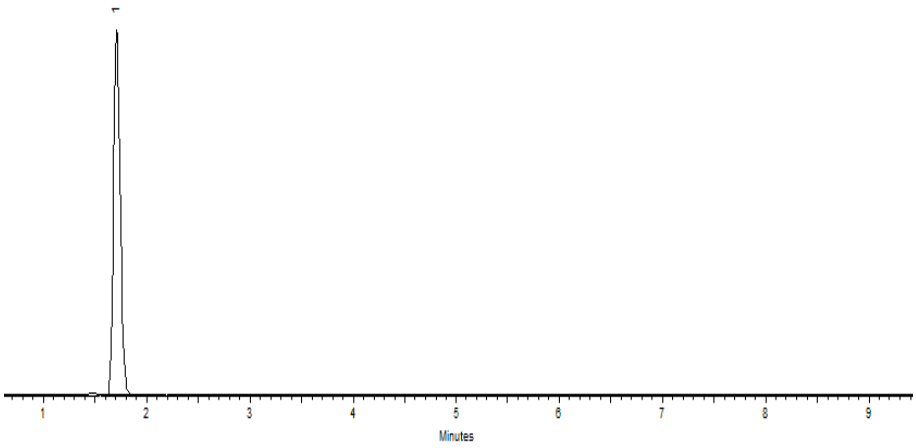
Flow Rate:
1.0 ml/min.

Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 15-Jun-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jun-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGDCAAFA_00064

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567804 **Lot No.:** A0132641

Description : DCAA Standard

DCAA Standard 1,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4-dichlorophenylacetic acid	1,000.8 µg/mL	+/- 5.8733	µg/mL	Gravimetric
	CAS # 19719-28-9 (Lot S30618V)		+/- 53.2353	µg/mL	Unstressed
	Purity 99%		+/- 53.3244	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

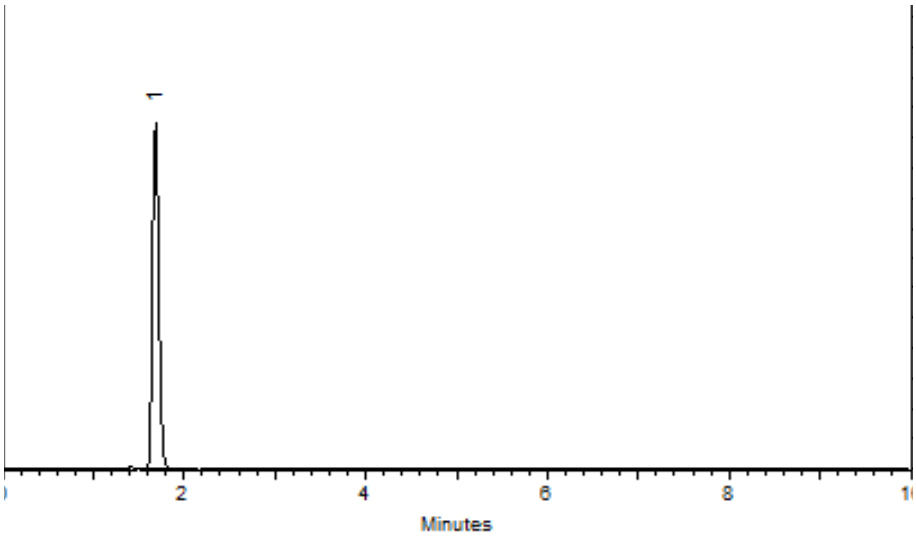
Flow Rate:
1.0 ml/min.

Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 21-Nov-2017 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Nov-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHERBADDICV_00013

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570473.SEC **Lot No.:** A0123922

Description : Custom Herbicide Additions Standard

Custom Herbicide Additions Standard 100-200 µg/mL, Acetonitrile, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,6-Trichlorophenol	100.0 µg/mL	+/- 0.7088 µg/mL	Gravimetric
	CAS # 88-06-2.SEC (Lot UUMYM)		+/- 5.3320 µg/mL	Unstressed
	Purity 98%		+/- 5.3409 µg/mL	Stressed
2	2,6-Dichlorophenol	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 87-65-0.SEC (Lot SIDBB)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
3	3,5-Dichlorobenzoic acid	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 51-36-5.SEC (Lot 00823)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
4	4-Nitrophenol	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 100-02-7.SEC (Lot 2J5LB)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
5	Acifluorfen (blazer)	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 50594-66-6.SEC (Lot 30619)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	Bentazon	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 25057-89-0.SEC (Lot 90723)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
7	Chloramben	199.9 µg/mL	+/- 1.4176 µg/mL	Gravimetric
	CAS # 133-90-4.SEC (Lot PSJUA)		+/- 10.6640 µg/mL	Unstressed
	Purity 98%		+/- 10.6818 µg/mL	Stressed

8	DCPA diacid (tetrachloroterephthalic acid)		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 2136-79-0.SEC	(Lot 3931400)			+/-	10.7216	µg/mL	Unstressed
	Purity ----%				+/-	10.7395	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%

Brandon Reish - Mix Technician

Date Mixed: 04-Jan-2017 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbICV1_00005

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.0 µg/mL	+/-	1.4180	µg/mL	Gravimetric
	CAS # 75-99-0.SEC	(Lot 692400)		+/-	10.6669	µg/mL	Unstressed
	Purity 95%			+/-	10.6847	µg/mL	Stressed
2	Dicamba		100.0 µg/mL	+/-	0.7091	µg/mL	Gravimetric
	CAS # 1918-00-9.SEC	(Lot SZBB175XV)		+/-	5.3341	µg/mL	Unstressed
	Purity 99%			+/-	5.3430	µg/mL	Stressed
3	MCPP (Mecoprop)		20,040.0 µg/mL	+/-	117.3386	µg/mL	Gravimetric
	CAS # 93-65-2.SEC	(Lot 1-KAS-91-1)		+/-	1,065.9524	µg/mL	Unstressed
	Purity 99%			+/-	1,067.7379	µg/mL	Stressed
4	MCPA		20,124.3 µg/mL	+/-	117.8322	µg/mL	Gravimetric
	CAS # 94-74-6.SEC	(Lot FBV01/)		+/-	1,070.4364	µg/mL	Unstressed
	Purity 98%			+/-	1,072.2294	µg/mL	Stressed
5	Dichlorprop		200.0 µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 120-36-5.SEC	(Lot 11007)		+/-	10.6683	µg/mL	Unstressed
	Purity 99%			+/-	10.6860	µg/mL	Stressed
6	2,4-D		202.0 µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 94-75-7.SEC	(Lot 31119)		+/-	10.7750	µg/mL	Unstressed
	Purity 99%			+/-	10.7929	µg/mL	Stressed
7	Pentachlorophenol		50.0 µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 87-86-5.SEC	(Lot 1239600)		+/-	2.6671	µg/mL	Unstressed
	Purity 99%			+/-	2.6715	µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

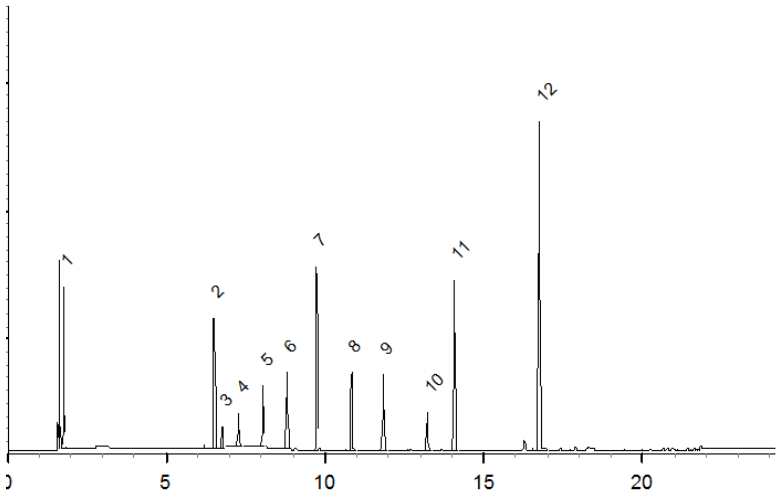
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbICV1_00006

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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)			50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS #	93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity	99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T			50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS #	93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity	99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB			201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS #	94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity	99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb			200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS #	88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity	99%				+/-	10.6860	µg/mL	Stressed
12	Picloram			200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS #	1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity	99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

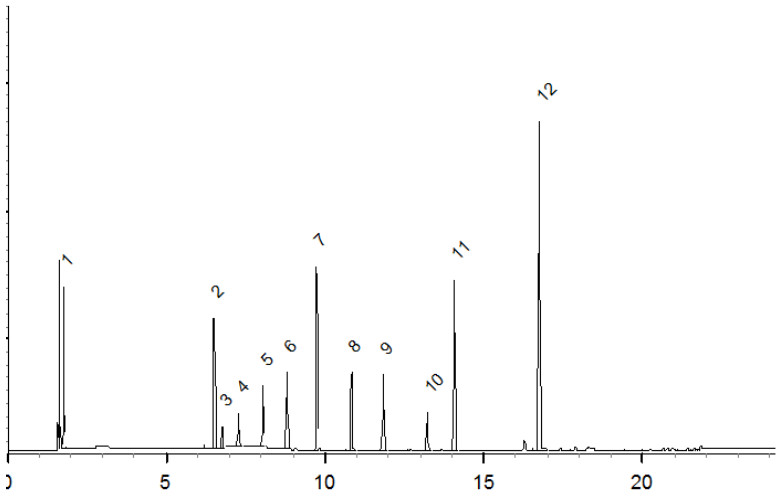
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbICV1_00007

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)			50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS #	93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity	99%				+/-	2.6715	µg/mL	Stressed
9	2,4,5-T			50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS #	93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
	Purity	99%				+/-	2.6715	µg/mL	Stressed
10	2,4-DB			201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS #	94-82-6.SEC	(Lot 20822)			+/-	10.7216	µg/mL	Unstressed
	Purity	99%				+/-	10.7395	µg/mL	Stressed
11	Dinoseb			200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS #	88-85-7.SEC	(Lot 2837700)			+/-	10.6683	µg/mL	Unstressed
	Purity	99%				+/-	10.6860	µg/mL	Stressed
12	Picloram			200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS #	1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity	99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

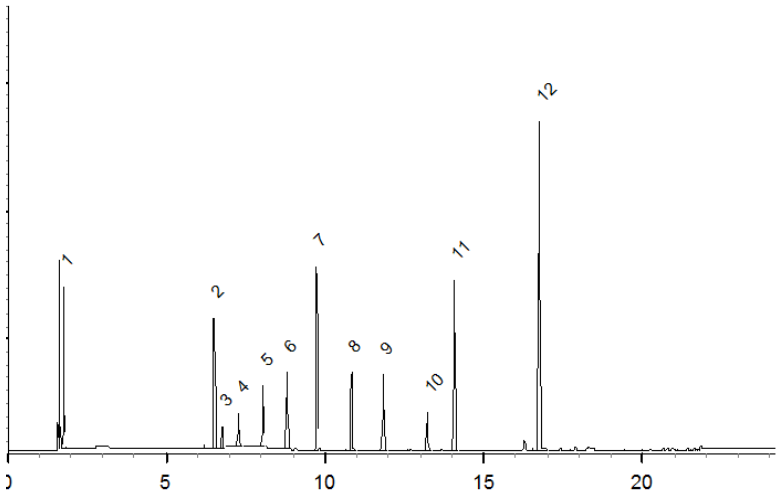
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Manufacturing Notes:

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Reagent

SGHerbICV1_00009

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749.sec **Lot No.:** A0120175

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dalapon	200.0 µg/mL	+/- 1.4180 µg/mL	Gravimetric
	CAS # 75-99-0.SEC (Lot 692400)		+/- 10.6669 µg/mL	Unstressed
	Purity 95%		+/- 10.6847 µg/mL	Stressed
2	Dicamba	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 1918-00-9.SEC (Lot SZBB175XV)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
3	MCPP (Mecoprop)	20,040.0 µg/mL	+/- 117.3386 µg/mL	Gravimetric
	CAS # 93-65-2.SEC (Lot 1-KAS-91-1)		+/- 1,065.9524 µg/mL	Unstressed
	Purity 99%		+/- 1,067.7379 µg/mL	Stressed
4	MCPA	20,124.3 µg/mL	+/- 117.8322 µg/mL	Gravimetric
	CAS # 94-74-6.SEC (Lot FBV01/)		+/- 1,070.4364 µg/mL	Unstressed
	Purity 98%		+/- 1,072.2294 µg/mL	Stressed
5	Dichlorprop	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 120-36-5.SEC (Lot 11007)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	2,4-D	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 94-75-7.SEC (Lot 31119)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed
7	Pentachlorophenol	50.0 µg/mL	+/- 0.3545 µg/mL	Gravimetric
	CAS # 87-86-5.SEC (Lot 1239600)		+/- 2.6671 µg/mL	Unstressed
	Purity 99%		+/- 2.6715 µg/mL	Stressed

8	2,4,5-TP (silvex)		50.0	µg/mL	+/-	0.3545	µg/mL	Gravimetric
	CAS # 93-72-1.SEC	(Lot 80703)			+/-	2.6671	µg/mL	Unstressed
	Purity 99%				+/-	2.6715	µg/mL	Stressed
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	CAS # 93-76-5.SEC	(Lot 20724)			+/-	2.6671	µg/mL	Unstressed
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12	Picloram		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 1918-02-1.SEC	(Lot 40121)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

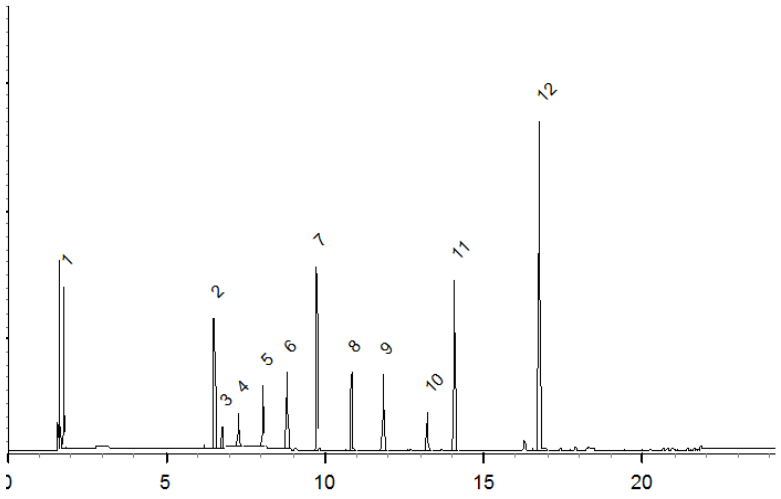
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00006

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Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.3 µg/mL		+/- 1.4203 µg/mL		Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/- 10.6847 µg/mL		Unstressed
	Purity 95%				+/- 10.7025 µg/mL		Stressed
2	Dicamba		100.2 µg/mL		+/- 0.7105 µg/mL		Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/- 5.3451 µg/mL		Unstressed
	Purity 98%				+/- 5.3540 µg/mL		Stressed
3	MCPP (Mecoprop)		20,035.0 µg/mL		+/- 117.3093 µg/mL		Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/- 1,065.6864 µg/mL		Unstressed
	Purity 99%				+/- 1,067.4715 µg/mL		Stressed
4	MCPA		20,020.8 µg/mL		+/- 117.2262 µg/mL		Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/- 1,064.9311 µg/mL		Unstressed
	Purity 96%				+/- 1,066.7149 µg/mL		Stressed
5	Dichlorprop		200.0 µg/mL		+/- 1.4182 µg/mL		Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/- 10.6683 µg/mL		Unstressed
	Purity 99%				+/- 10.6860 µg/mL		Stressed
6	2,4-D		201.0 µg/mL		+/- 1.4253 µg/mL		Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/- 10.7216 µg/mL		Unstressed
	Purity 99%				+/- 10.7395 µg/mL		Stressed
7	Pentachlorophenol		50.5 µg/mL		+/- 0.3581 µg/mL		Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/- 2.6937 µg/mL		Unstressed
	Purity 99%				+/- 2.6982 µg/mL		Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

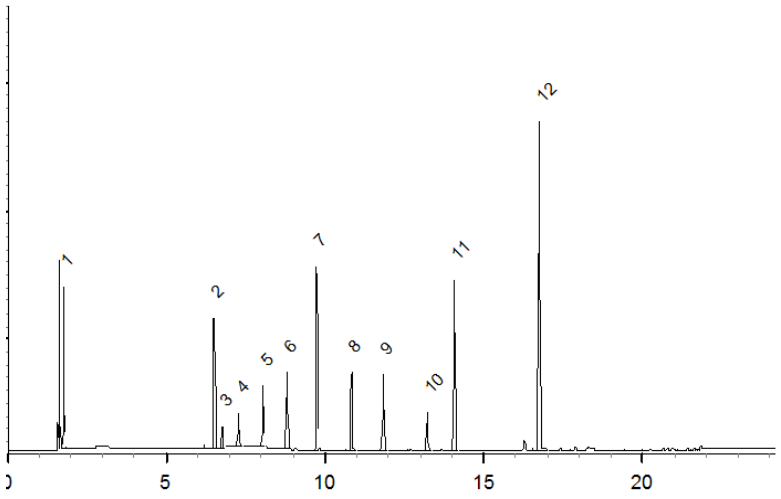
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00007

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.3 µg/mL		+/- 1.4203 µg/mL		Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/- 10.6847 µg/mL		Unstressed
	Purity 95%				+/- 10.7025 µg/mL		Stressed
2	Dicamba		100.2 µg/mL		+/- 0.7105 µg/mL		Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/- 5.3451 µg/mL		Unstressed
	Purity 98%				+/- 5.3540 µg/mL		Stressed
3	MCPP (Mecoprop)		20,035.0 µg/mL		+/- 117.3093 µg/mL		Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/- 1,065.6864 µg/mL		Unstressed
	Purity 99%				+/- 1,067.4715 µg/mL		Stressed
4	MCPA		20,020.8 µg/mL		+/- 117.2262 µg/mL		Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/- 1,064.9311 µg/mL		Unstressed
	Purity 96%				+/- 1,066.7149 µg/mL		Stressed
5	Dichlorprop		200.0 µg/mL		+/- 1.4182 µg/mL		Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/- 10.6683 µg/mL		Unstressed
	Purity 99%				+/- 10.6860 µg/mL		Stressed
6	2,4-D		201.0 µg/mL		+/- 1.4253 µg/mL		Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/- 10.7216 µg/mL		Unstressed
	Purity 99%				+/- 10.7395 µg/mL		Stressed
7	Pentachlorophenol		50.5 µg/mL		+/- 0.3581 µg/mL		Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/- 2.6937 µg/mL		Unstressed
	Purity 99%				+/- 2.6982 µg/mL		Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

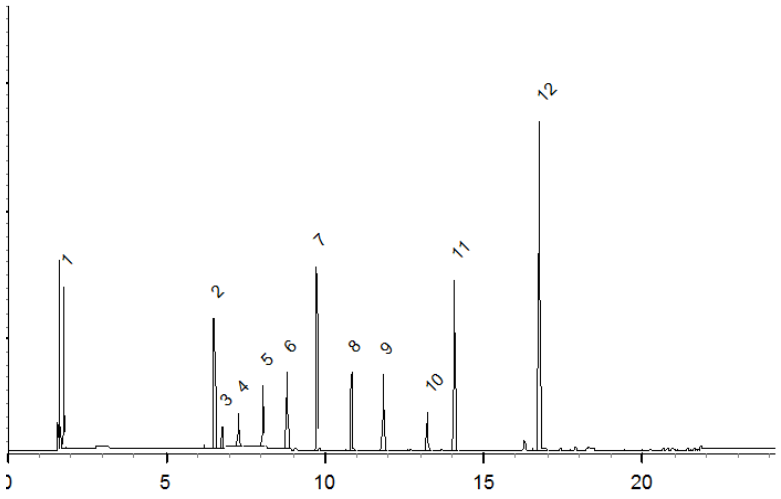
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

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Manufacturing Notes:

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Handling Notes:

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Reagent

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000 µg/ml, Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dalapon		200.3 µg/mL	+/- 1.4203	µg/mL	Gravimetric
	CAS # 75-99-0	(Lot 4819200)		+/- 10.6847	µg/mL	Unstressed
	Purity 95%			+/- 10.7025	µg/mL	Stressed
2	Dicamba		100.2 µg/mL	+/- 0.7105	µg/mL	Gravimetric
	CAS # 1918-00-9	(Lot 3357300)		+/- 5.3451	µg/mL	Unstressed
	Purity 98%			+/- 5.3540	µg/mL	Stressed
3	MCPP (Mecoprop)		20,035.0 µg/mL	+/- 117.3093	µg/mL	Gravimetric
	CAS # 93-65-2	(Lot PB041700)		+/- 1,065.6864	µg/mL	Unstressed
	Purity 99%			+/- 1,067.4715	µg/mL	Stressed
4	MCPA		20,020.8 µg/mL	+/- 117.2262	µg/mL	Gravimetric
	CAS # 94-74-6	(Lot 4868000)		+/- 1,064.9311	µg/mL	Unstressed
	Purity 96%			+/- 1,066.7149	µg/mL	Stressed
5	Dichlorprop		200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 120-36-5	(Lot 3684800)		+/- 10.6683	µg/mL	Unstressed
	Purity 99%			+/- 10.6860	µg/mL	Stressed
6	2,4-D		201.0 µg/mL	+/- 1.4253	µg/mL	Gravimetric
	CAS # 94-75-7	(Lot 4457200)		+/- 10.7216	µg/mL	Unstressed
	Purity 99%			+/- 10.7395	µg/mL	Stressed
7	Pentachlorophenol		50.5 µg/mL	+/- 0.3581	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)		+/- 2.6937	µg/mL	Unstressed
	Purity 99%			+/- 2.6982	µg/mL	Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
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	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
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	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
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	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

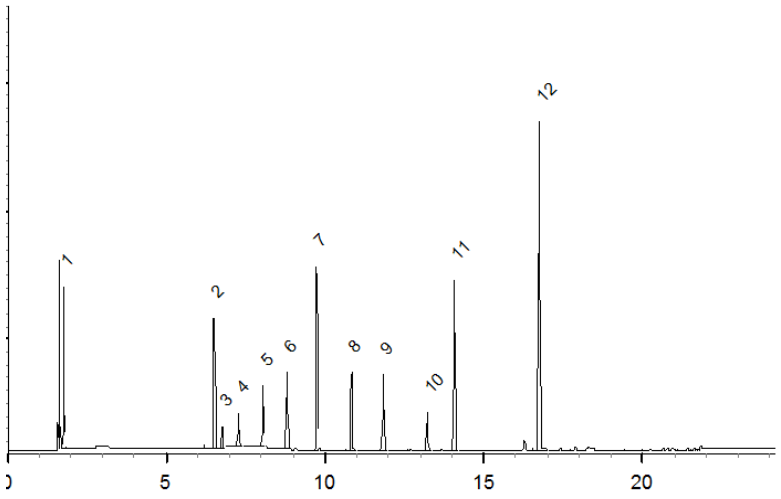
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
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This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

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- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHerbList1_00011

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569749 **Lot No.:** A0120183

Description : Herbicide List #1 Standard (2015)

Herbicide List #1 Standard (2015) 50-20,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2019 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Dalapon		200.3	µg/mL	+/-	1.4203	µg/mL	Gravimetric
	CAS # 75-99-0	(Lot 4819200)			+/-	10.6847	µg/mL	Unstressed
	Purity 95%				+/-	10.7025	µg/mL	Stressed
2	Dicamba		100.2	µg/mL	+/-	0.7105	µg/mL	Gravimetric
	CAS # 1918-00-9	(Lot 3357300)			+/-	5.3451	µg/mL	Unstressed
	Purity 98%				+/-	5.3540	µg/mL	Stressed
3	MCPP (Mecoprop)		20,035.0	µg/mL	+/-	117.3093	µg/mL	Gravimetric
	CAS # 93-65-2	(Lot PB041700)			+/-	1,065.6864	µg/mL	Unstressed
	Purity 99%				+/-	1,067.4715	µg/mL	Stressed
4	MCPA		20,020.8	µg/mL	+/-	117.2262	µg/mL	Gravimetric
	CAS # 94-74-6	(Lot 4868000)			+/-	1,064.9311	µg/mL	Unstressed
	Purity 96%				+/-	1,066.7149	µg/mL	Stressed
5	Dichlorprop		200.0	µg/mL	+/-	1.4182	µg/mL	Gravimetric
	CAS # 120-36-5	(Lot 3684800)			+/-	10.6683	µg/mL	Unstressed
	Purity 99%				+/-	10.6860	µg/mL	Stressed
6	2,4-D		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 94-75-7	(Lot 4457200)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed
7	Pentachlorophenol		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 160412JLM)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed

8	2,4,5-TP (silvex)		50.2	µg/mL	+/-	0.3556	µg/mL	Gravimetric
	CAS # 93-72-1	(Lot 4185600)			+/-	2.6751	µg/mL	Unstressed
	Purity 99%				+/-	2.6795	µg/mL	Stressed
9	2,4,5-T		50.5	µg/mL	+/-	0.3581	µg/mL	Gravimetric
	CAS # 93-76-5	(Lot 4236800)			+/-	2.6937	µg/mL	Unstressed
	Purity 99%				+/-	2.6982	µg/mL	Stressed
10	2,4-DB		201.5	µg/mL	+/-	1.4288	µg/mL	Gravimetric
	CAS # 94-82-6	(Lot 4174600)			+/-	10.7483	µg/mL	Unstressed
	Purity 99%				+/-	10.7662	µg/mL	Stressed
11	Dinoseb		202.0	µg/mL	+/-	1.4323	µg/mL	Gravimetric
	CAS # 88-85-7	(Lot 50001)			+/-	10.7750	µg/mL	Unstressed
	Purity 99%				+/-	10.7929	µg/mL	Stressed
12	Picloram		200.5	µg/mL	+/-	1.4217	µg/mL	Gravimetric
	CAS # 1918-02-1	(Lot 863400)			+/-	10.6949	µg/mL	Unstressed
	Purity 99%				+/-	10.7128	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

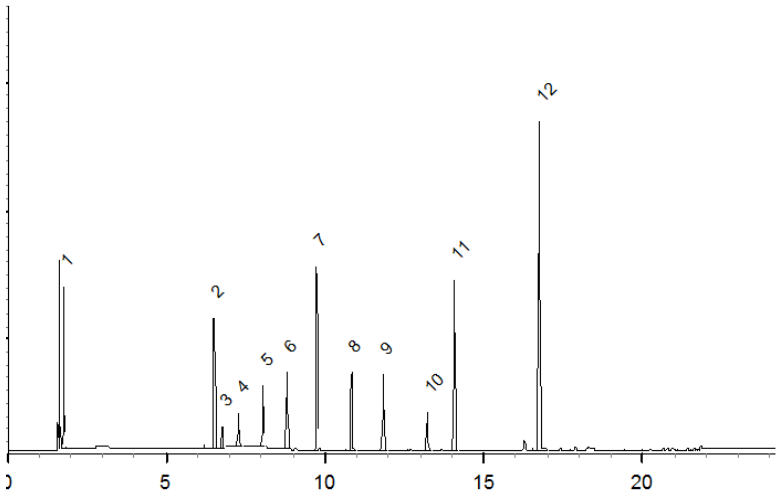
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Joseph Jaglowski - Mix Technician

Date Mixed: 05-Jul-2016 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Aug-2016

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SGHMCCALFA_00040

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570473 **Lot No.:** A0123630

Description : Custom Herbicide Additions Standard

Custom Herbicide Additions Standard 100-200 µg/mL, Acetonitrile, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2018 **Storage:** 10°C or colder

Handling: This product is photosensitive.

C E R T I F I E D V A L U E S

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,6-Trichlorophenol	100.0 µg/mL	+/- 0.7091 µg/mL	Gravimetric
	CAS # 88-06-2 (Lot MKBL4698V)		+/- 5.3341 µg/mL	Unstressed
	Purity 99%		+/- 5.3430 µg/mL	Stressed
2	2,6-Dichlorophenol	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 87-65-0 (Lot MKBP8620V)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
3	3,5-Dichlorobenzoic acid	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 51-36-5 (Lot 08004EH)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
4	4-Nitrophenol	201.0 µg/mL	+/- 1.4253 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKBV0501V)		+/- 10.7216 µg/mL	Unstressed
	Purity 99%		+/- 10.7395 µg/mL	Stressed
5	Acifluorfen (blazer)	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 50594-66-6 (Lot 83-46A)		+/- 10.6683 µg/mL	Unstressed
	Purity 99%		+/- 10.6860 µg/mL	Stressed
6	Bentazon	199.9 µg/mL	+/- 1.4176 µg/mL	Gravimetric
	CAS # 25057-89-0 (Lot 2735000)		+/- 10.6640 µg/mL	Unstressed
	Purity 98%		+/- 10.6818 µg/mL	Stressed
7	Chloramben	202.0 µg/mL	+/- 1.4323 µg/mL	Gravimetric
	CAS # 133-90-4 (Lot 83-49A)		+/- 10.7750 µg/mL	Unstressed
	Purity 99%		+/- 10.7929 µg/mL	Stressed

8	DCPA diacid (tetrachloroterephthalic acid)		201.0	µg/mL	+/-	1.4253	µg/mL	Gravimetric
	CAS # 2136-79-0	(Lot DWL0462)			+/-	10.7216	µg/mL	Unstressed
	Purity 99%				+/-	10.7395	µg/mL	Stressed

Solvent: Acetonitrile
CAS # 75-05-8
Purity 99%



Date Mixed: 20-Dec-2016 **Balance:** 1125113331

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Method 8151 DOD

Herbicides (GC) by Method 8151A DOD

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-35MS ID: 0.32(mm)

Client Sample ID	Lab Sample ID	DCPAA1 #
GQ004	680-151915-1	96
GQ005	680-151915-2	93
GQ006	680-151915-3	97
	MB 680-522541/10-A	52
	LCS 680-522541/11-A	54

	QC LIMITS
DCPAA = 2,4-Dichlorophenylacetic acid (Surr)	27-122

Column to be used to flag recovery values

FORM II 8151A DOD

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: SE080031.D

Lab ID: LCS 680-522541/11-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2,4,5-T	16.3	8.90	54	31-138	
2,4-D	65.4	44.5	68	28-144	

Column to be used to flag recovery and RPD values

FORM III 8151A DOD

FORM IV
HERBICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: MB 680-522541/10-A

Matrix: Solid Date Extracted: 05/03/2018 11:22

Lab File ID:(1) SE080030.D Lab File ID:(2) SE080030.D

Date Analyzed:(1) 05/08/2018 22:19 Date Analyzed:(2) 05/08/2018 22:19

Instrument ID:(1) CSGS Instrument ID:(2) CSGS

GC Column:(1) DB-35MS ID: 0.32(mm) GC Column:(2) DB-XLB ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 680-522541/11-A	05/08/2018 22:38	05/08/2018 22:38
GQ004	680-151915-1	05/08/2018 22:58	05/08/2018 22:58
GQ005	680-151915-2	05/08/2018 23:17	05/08/2018 23:17
GQ006	680-151915-3	05/08/2018 23:36	05/08/2018 23:36

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Client Sample ID: GQ005 Lab Sample ID: 680-151915-2

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/08/2018 23:17 Date Analyzed (2): 05/08/2018 23:17

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.52	7.51	7.53	8.3		19.6
	2		7.32	7.32	7.34	10		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 680-522541/11-A

Instrument ID (1): CSGS Instrument ID (2): CSGS

Date Analyzed (1): 05/08/2018 22:38 Date Analyzed (2): 05/08/2018 22:38

GC Column (1): DB-35MS ID: 0.32(mm) GC Column (2): DB-XLB ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		7.52	7.51	7.53	44.5		20.5
	2		7.32	7.32	7.34	54.7		
2,4,5-T	1		8.08	8.07	8.09	8.90		5.2
	2		7.92	7.92	7.94	9.37		

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: GQ004 | Lab Sample ID: 680-151915-1

Matrix: Solid | Lab File ID: SE080032.D

Analysis Method: 8151A DOD | Date Collected: 04/24/2018 11:40

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.02(g) | Date Analyzed: 05/08/2018 22:58

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 7.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.7	U M	9.0	4.7	2.5
94-75-7	2,4-D	9.0	U	9.0	9.0	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	96		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080032.D				
Lims ID:	680-151915-A-1-A				
Client ID:	GQ004				
Sample Type:	Client				
Inject. Date:	08-May-2018 22:58:04	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-032				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:30:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.682	6.683	-0.001	22672595	0.1072	
2	6.831	6.829	0.002	270341985	0.1920	
					RPD = 56.69	
11 2,4-D						
1	7.323	7.326	-0.003	9106923	0.0301	
2	7.515	7.517	-0.002	23205306	0.0146	
					RPD = 69.62	

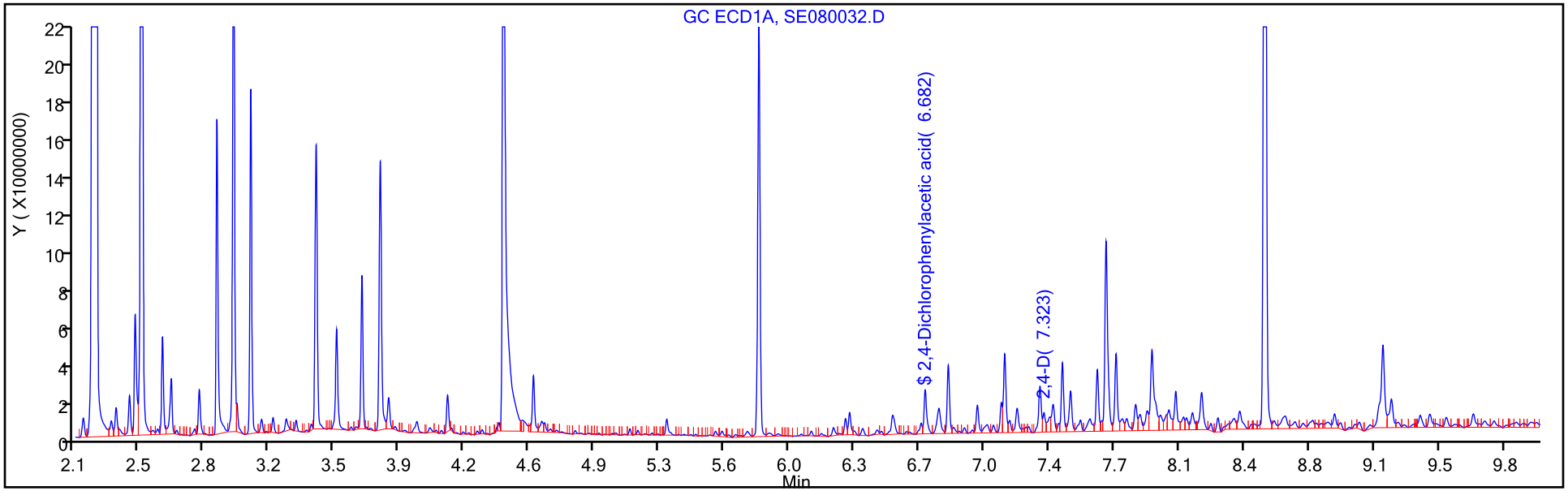
Report Date: 09-May-2018 09:37:19 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

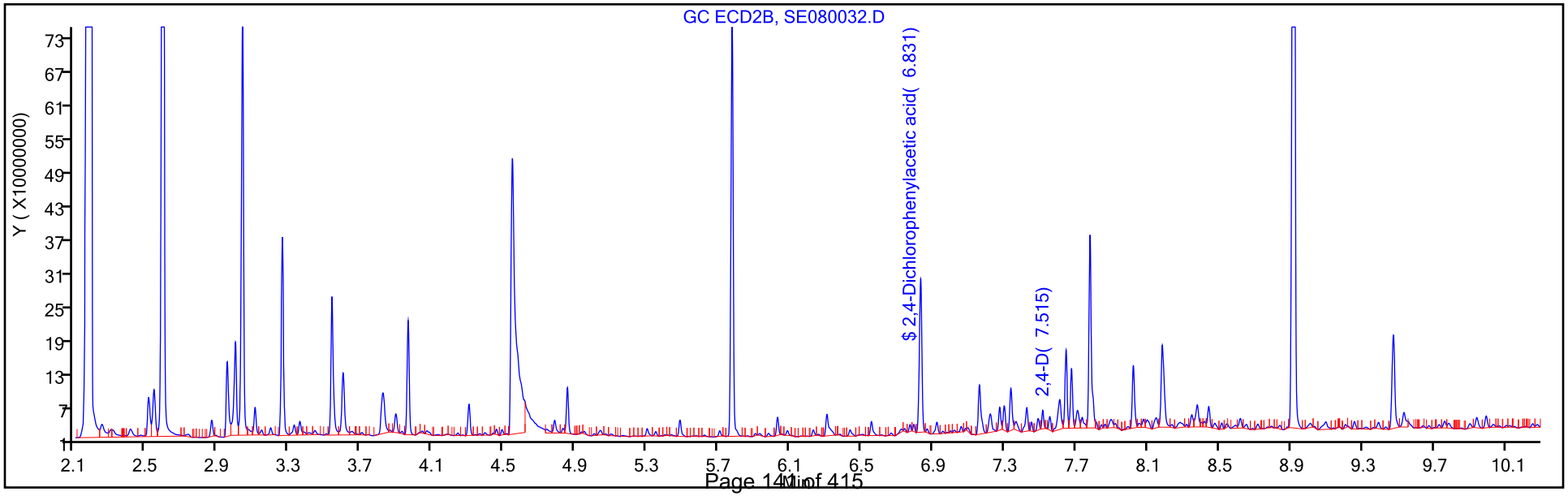
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080032.D

Injection Date:	08-May-2018 22:58:04	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151915-A-1-A	Lab Sample ID:	680-151915-1	Worklist Smp#:	32
Client ID:	GQ004				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080032.D				
Lims ID:	680-151915-A-1-A				
Client ID:	GQ004				
Sample Type:	Client				
Inject. Date:	08-May-2018 22:58:04	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-032				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:30:01		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1072	53.61

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1920	96.02

User Disabled Compound Report

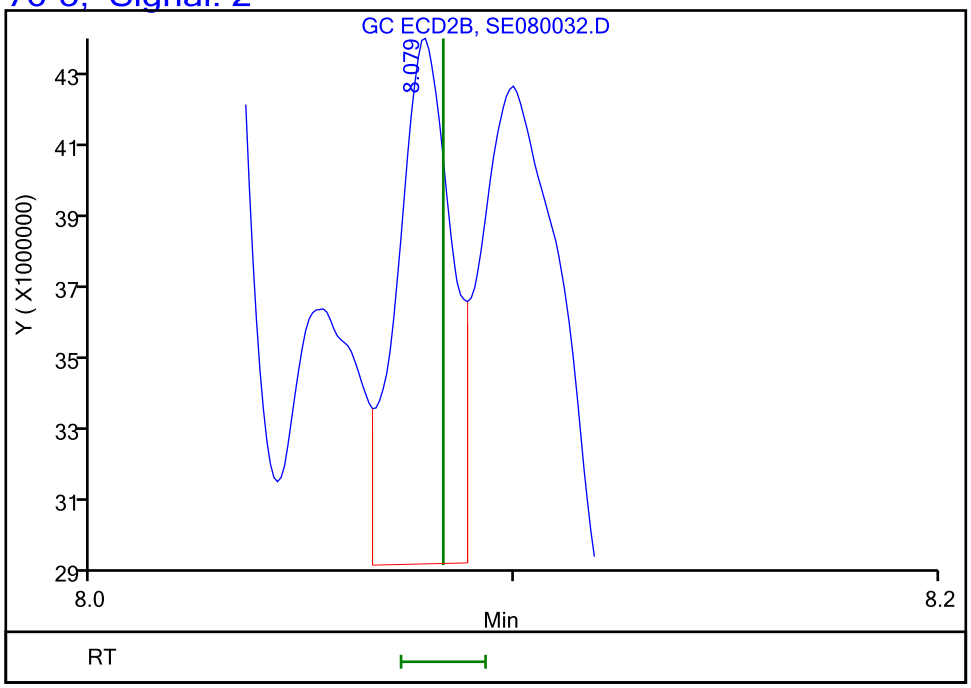
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080032.D

Injection Date:	08-May-2018 22:58:04	Instrument ID:	CSGS		
Lims ID:	680-151915-A-1-A	Lab Sample ID:	680-151915-1		
Client ID:	GQ004				
Operator ID:	GEM	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5, Signal: 2

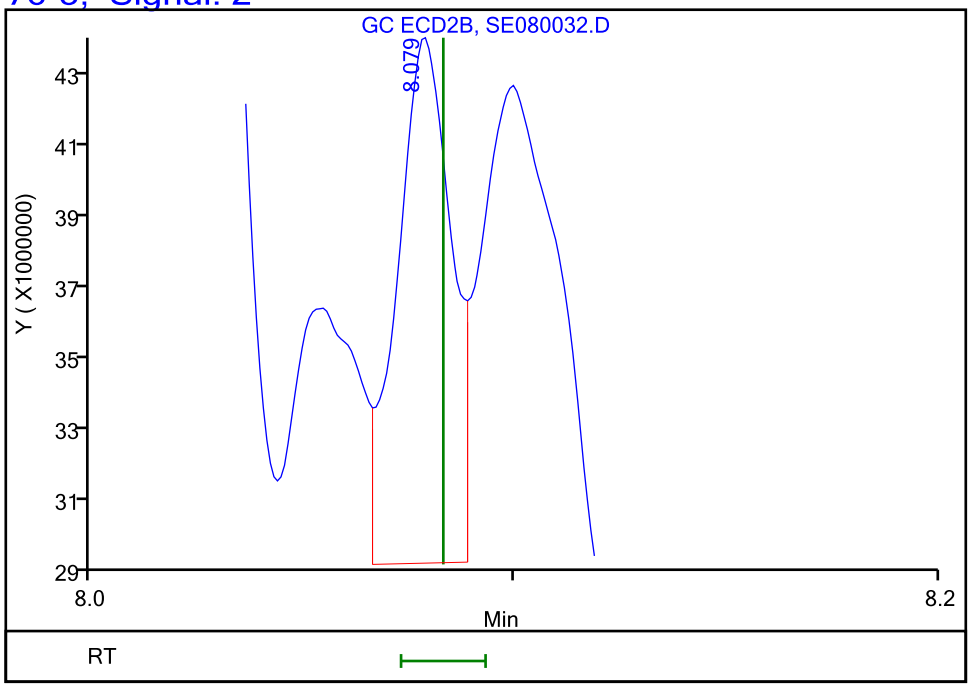
RT: 8.08
Response: 12934996
Amount: 0.001946



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 8.08
Response: 12934996
Amount: 0.001946



Reviewer: kellarj, 09-May-2018 09:30:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: GQ005 | Lab Sample ID: 680-151915-2

Matrix: Solid | Lab File ID: SE080033.D

Analysis Method: 8151A DOD | Date Collected: 04/24/2018 11:45

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.03(g) | Date Analyzed: 05/08/2018 23:17

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 8.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.7	U	9.1	4.7	2.5
94-75-7	2,4-D	8.3	J	9.1	9.1	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	93		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080033.D				
Lims ID:	680-151915-A-2-A				
Client ID:	GQ005				
Sample Type:	Client				
Inject. Date:	08-May-2018 23:17:31	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-033				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:30:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.683	6.683	0.000	19154212	0.0906	
2	6.831	6.829	0.002	262522301	0.1865	
					RPD = 69.23	
11 2,4-D						
1	7.323	7.326	-0.003	8342960	0.0276	
2	7.516	7.517	-0.001	36113981	0.0227	
					RPD = 19.61	

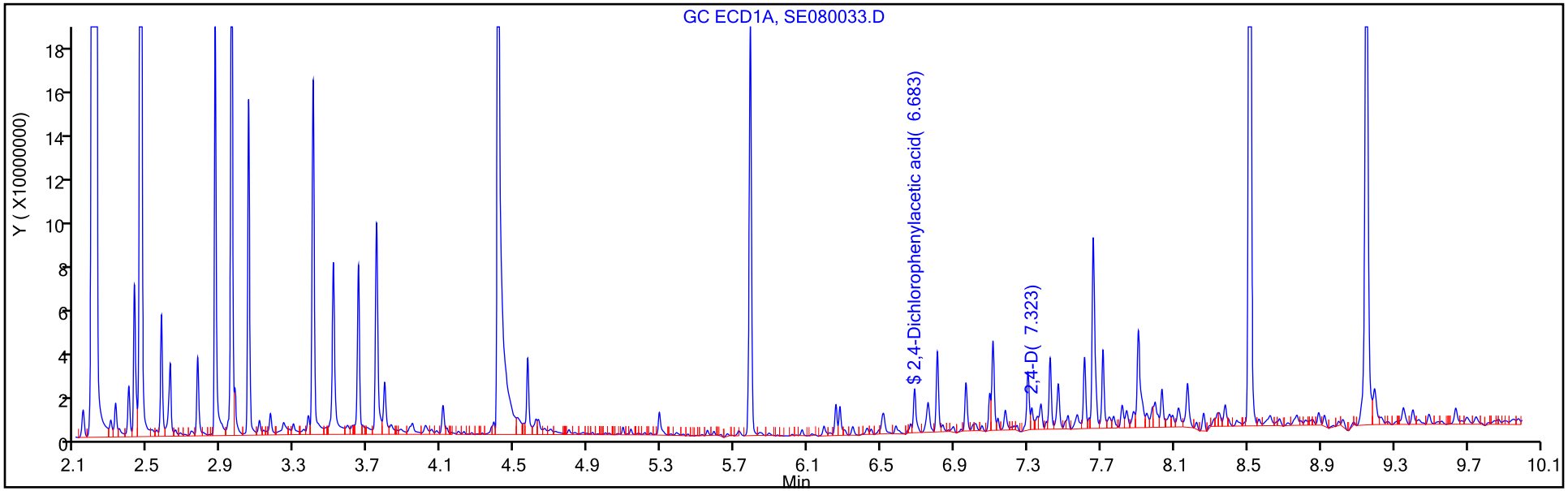
Report Date: 09-May-2018 09:37:16 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

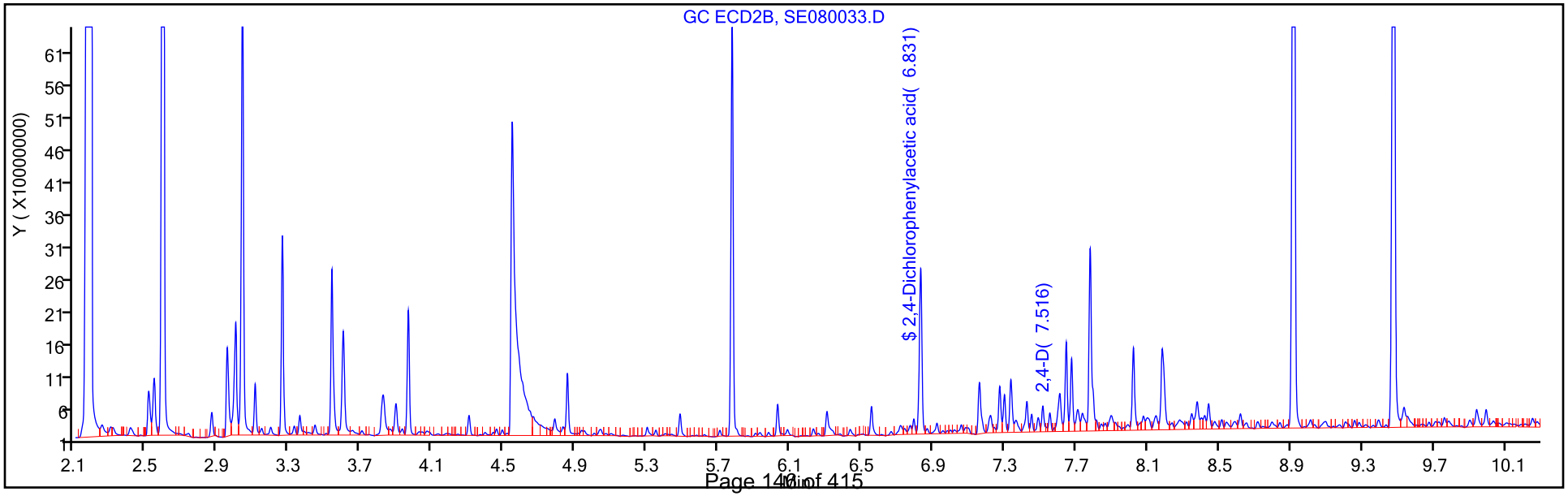
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080033.D

Injection Date:	08-May-2018 23:17:31	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151915-A-2-A	Lab Sample ID:	680-151915-2	Worklist Smp#:	33
Client ID:	GQ005				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080033.D				
Lims ID:	680-151915-A-2-A				
Client ID:	GQ005				
Sample Type:	Client				
Inject. Date:	08-May-2018 23:17:31	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-033				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:30:10		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.0906	45.29

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1865	93.24

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: GQ006 | Lab Sample ID: 680-151915-3

Matrix: Solid | Lab File ID: SE080034.D

Analysis Method: 8151A DOD | Date Collected: 04/24/2018 11:50

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.15(g) | Date Analyzed: 05/08/2018 23:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.7	U	9.0	4.7	2.5
94-75-7	2,4-D	9.0	U M	9.0	9.0	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	97		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080034.D				
Lims ID:	680-151915-A-3-A				
Client ID:	GQ006				
Sample Type:	Client				
Inject. Date:	08-May-2018 23:36:57	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-034				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:30:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid						
1	6.682	6.683	-0.001	32729863	0.1548	
2	6.830	6.829	0.001	272544502	0.1936	
					RPD = 22.30	

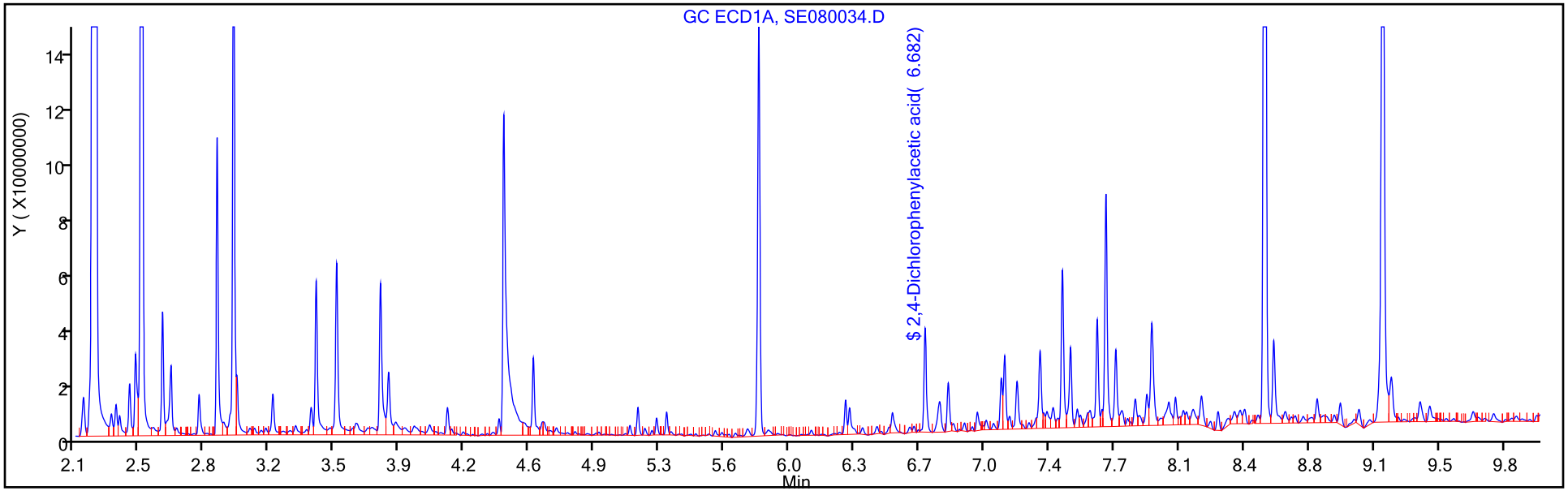
Report Date: 09-May-2018 09:37:14 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

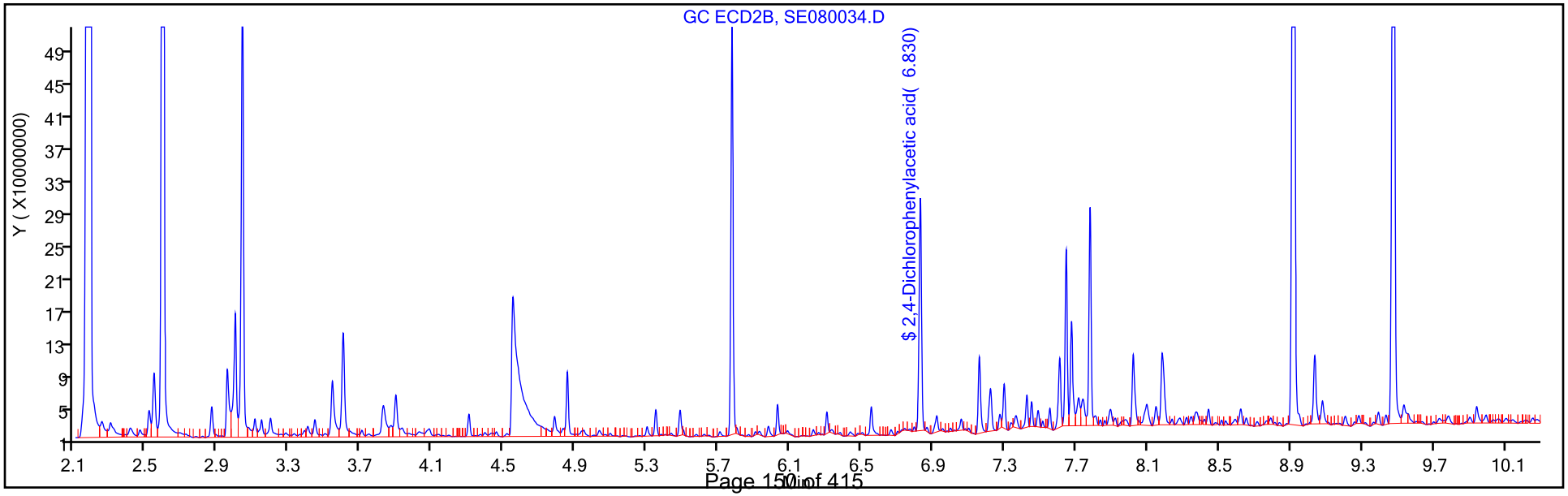
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080034.D

Injection Date:	08-May-2018 23:36:57	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	680-151915-A-3-A	Lab Sample ID:	680-151915-3	Worklist Smp#:	34
Client ID:	GQ006				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080034.D				
Lims ID:	680-151915-A-3-A				
Client ID:	GQ006				
Sample Type:	Client				
Inject. Date:	08-May-2018 23:36:57	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-034				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:30:18		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1548	77.38

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1936	96.80

User Disabled Compound Report

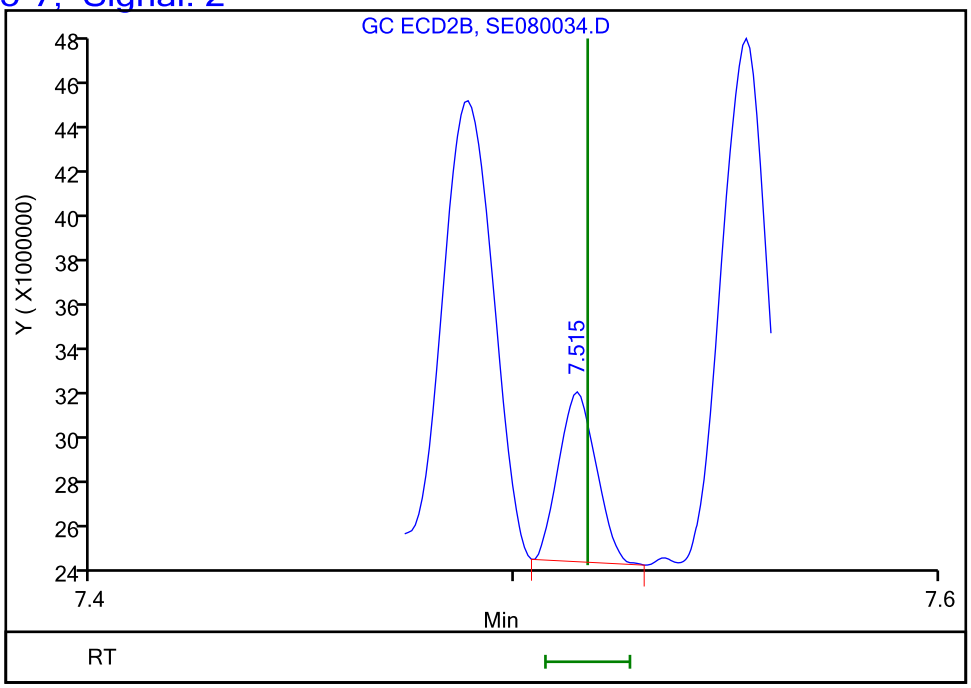
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080034.D

Injection Date:	08-May-2018 23:36:57	Instrument ID:	CSGS		
Lims ID:	680-151915-A-3-A	Lab Sample ID:	680-151915-3		
Client ID:	GQ006				
Operator ID:	GEM	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7, Signal: 2

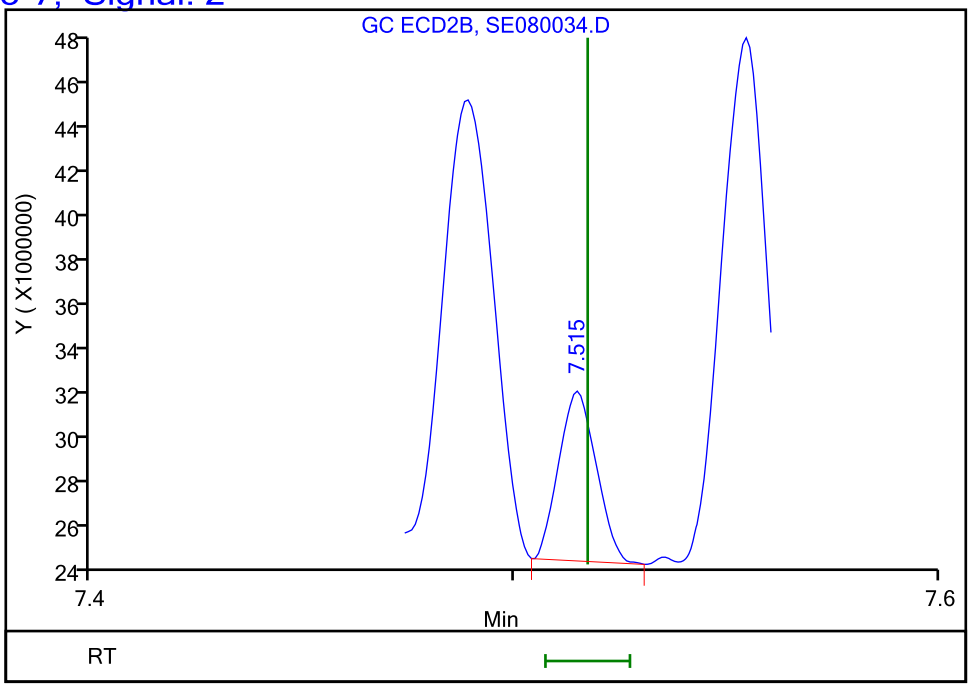
RT: 7.51
Response: 4710776
Amount: 0.002956



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.51
Response: 4710776
Amount: 0.002956



Reviewer: kellarj, 09-May-2018 09:30:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	2.580	2.580	2.579	+++++	2.579	2.580	2.580	2.580			2.559 - 2.599	2.580
3,5-Dichlorobenzoic acid	6.126	6.125	6.124	+++++	6.123	6.123	6.123	6.123			6.114 - 6.134	6.124
4-Nitrophenol	6.263	6.258	6.254	+++++	6.251	6.251	6.250	6.250			6.243 - 6.263	6.254
Dicamba	6.721	6.720	6.721	+++++	6.721	6.721	6.720	6.721			6.710 - 6.730	6.721
MCPP	6.868	6.867	6.866	+++++	6.868	6.868	6.870	6.872			6.857 - 6.877	6.868
MCPA	6.996	6.995	6.994	+++++	6.994	6.995	6.996	7.000			6.984 - 7.004	6.996
Dichlorprop	7.182	7.182	7.181	+++++	7.181	7.181	7.180	7.181			7.170 - 7.190	7.181
2,4-D	7.346	7.337	7.331	+++++	7.324	7.323	7.322	7.323			7.316 - 7.336	7.329
Pentachlorophenol	7.674	7.673	7.674	+++++	7.673	7.674	7.674	7.675			7.664 - 7.684	7.674
Silvex (2,4,5-TP)	7.776	7.771	7.771	+++++	7.767	7.768	7.767	7.768			7.759 - 7.779	7.770
Chloramben	7.868	7.864	7.860	+++++	7.852	7.850	7.849	7.848			7.845 - 7.865	7.856
2,4,5-T	7.937	7.935	7.933	+++++	7.925	7.924	7.922	7.923			7.919 - 7.939	7.928
2,4-DB	8.185	8.182	8.178	+++++	8.171	8.169	8.167	8.167			8.165 - 8.185	8.174
Dinoseb	8.227	8.225	8.225	+++++	8.222	8.223	8.223	8.224			8.214 - 8.234	8.224
Bentazon	8.306	8.304	8.301	+++++	8.299	8.299	8.299	8.299			8.290 - 8.310	8.301
Picloram	8.546	8.538	8.533	+++++	8.526	8.525	8.523	8.523			8.519 - 8.539	8.531
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.626	8.625	8.624	+++++	8.623	8.623	8.625	8.626			8.613 - 8.633	8.625
Acifluorfen	9.670	9.668	9.667	+++++	9.665	9.665	9.665	9.667			9.656 - 9.676	9.667
2,4-Dichlorophenylacetic acid (Surr)	6.685	6.684	6.683	+++++	6.683	6.683	6.683	6.683			6.673 - 6.693	6.683

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	590623000 501343863	548749400 505359752	505816280 505630140	+++++ 511012321	Ave		524076394				6.4		20.0			
3,5-Dichlorobenzoic acid	320222900 310170354	325925160 324153844	302358360 330009804	+++++ 337068861	Ave		321415612				3.7		20.0			
4-Nitrophenol	71198600 97415017	92280320 107969032	84618080 96163496	+++++ 97562965	Ave		92458215.7				12.6		20.0			
Dicamba	1069269000 1046294606	1056001840 1085307760	981963600 1129742140	+++++ 1170487746	Ave		1077009527				5.6		20.0			
MCPP	383358 493718	515556 507506	513185 781805	+++++ 1043440	Qua	-375682.35	455494.134	5947.60489						0.9990		0.9900
MCPA	684536 1015244	855075 1035632	874696 1031921	+++++ 984673	Ave		925968.148				14.0		20.0			
Dichlorprop	269946200 274910263	274874480 282466000	261287600 288126840	+++++ 290874356	Ave		277497963				3.8		20.0			
2,4-D	240093400 309104989	269609520 325959236	270573020 344276094	+++++ 357181097	Ave		302399622				14.4		20.0			
Pentachlorophenol	4403400800 5421816411	4723432800 5716695024	4804851680 6102875736	+++++ 6514196396	Ave		5383895550				14.5		20.0			
Silvex (2,4,5-TP)	1412480800 1934512549	1589272800 2084549792	1624198880 2215309200	+++++ 2290775776	Ave		1878728542				18.1		20.0			
Chloramben	1014630400 1540114857	1125919240 1683249404	1201713680 1896110694	+++++ 2124806109	Qua	-18666594	1661493099	484746839						1.0000		0.9900
2,4,5-T	2273542000 2137927269	2222943840 2214469440	2125359040 2194574216	+++++ 2188067564	Ave		2193840481				2.3		20.0			
2,4-DB	95715600 148913017	106659600 167659108	115257020 191517264	+++++ 208315295	Qua	-2436902.3	172002569	39193472.8						0.9990		0.9900
Dinoseb	1080237600 1186151777	1085648760 1272822120	1065912980 1373798070	+++++ 1502700567	Ave		1223895982				13.7		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Bentazon	316467700 271492754	279450640 287045072	274389100 288476476	+++++ 295542031	Ave		287551968				5.3		20.0			
Picloram	1624991300 2449319440	1765360320 2701195528	1895185740 3103274140	+++++ 3668133130	Qua	-26505316	2539444890	1158759739						1.0000		0.9900
Tetraphthalic acid, tetrachloro-, dimethyl	2893947000 3231119337	3086549440 3370780948	3028981420 3593631444	+++++ 3847093339	Ave		3293157561				10.2		20.0			
Acifluorfen	1819999100 2329574200	1959295600 2532153916	1944516240 2764112324	+++++ 3202033523	Qua	-14470608	2348239053	869421475						1.0000		0.9900
2,4-Dichlorophenylacetic acid (Surr)	232590900 200079320	221537720 204599376	196434220 210440590	+++++ 214663766	Ave		211477985				6.0		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Ave	5906230 126339938	13718735 252815070	25290814 511012321	+++++	87735176	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
3,5-Dichlorobenzoic acid	Ave	3202229 81038461	8148129 165004902	15117918 337068861	+++++	54279812	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
4-Nitrophenol	Ave	711986 26992258	2307008 48081748	4230904 97562965	+++++	17047628	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dicamba	Ave	5346345 135663470	13200023 282435535	24549090 585243873	+++++	91550778	0.00500 0.125	0.0125 0.250	0.0250 0.500	+++++	0.0875
MCPP	Qua	383358 12687646	1288891 39090261	2565927 104343971	+++++	8640069	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
MCPA	Ave	684536 25890792	2137688 51596040	4373482 98467290	+++++	17766771	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
Dichlorprop	Ave	2699462 70616500	6871862 144063420	13064380 290874356	+++++	48109296	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4-D	Ave	2400934 81489809	6740238 172138047	13528651 357181097	+++++	54093373	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Pentachlorophenol	Ave	11008502 357293439	29521455 762859467	60060646 1628549099	+++++	237204468	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Silvex (2,4,5-TP)	Ave	3531202 130284362	9932955 276913650	20302486 572693944	+++++	84634924	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Chloramben	Qua	10146304 420812351	28147981 948055347	60085684 2124806109	+++++	269520100	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4,5-T	Ave	5683855 138404340	13893399 274321777	26566988 547016891	+++++	93534318	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
2,4-DB	Qua	957156 41914777	2666490 95758632	5762851 208315295	+++++	26059778	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dinoseb	Ave	10802376 318205530	27141219 686899035	53295649 1502700567	+++++	207576561	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Bentazon	Ave	3164677 71761268	6986266 144238238	13719455 295542031	+++++	47511232	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-XLB ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57164

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Picloram	Qua	16249913 675298882	44134008 1551637070	94759287 3668133130	+++++	428630902	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	28939470 842695237	77163736 1796815722	151449071 3847093339	+++++	565445884	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Acifluorfen	Qua	18199991 633038479	48982390 1382056162	97225812 3202033523	+++++	407675485	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	2325909 51149844	5538443 105220295	9821711 214663766	+++++	35013881	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

Curve Type Legend:

Ave = Average
Qua = Quadratic

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-May-2018 11:58:00 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:24:59 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:07:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	511012321	1.00	0.9751	
2	2.635	2.632	0.003	1725206867	1.00	1.07	
						RPD = 9.32	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	95938059	NC	NC	
2	5.103	5.102	0.001	555849594	NC	NC	
						RPD = 4.71	
3 2,4,6-Trichlorophenol							
1	5.788	5.786	0.002	1387562807	NC	NC	
2	5.780	5.776	0.004	5355785086	NC	NC	
						RPD = 10.60	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	337068861	1.00	1.05	
2	6.118	6.116	0.002	1954171685	1.00	1.09	
						RPD = 3.63	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	97562965	1.00	1.06	
2	6.503	6.505	-0.002	334991246	1.00	1.12	
						RPD = 5.98	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	214663766	1.00	1.02	
2	6.831	6.829	0.002	1537345376	1.00	1.09	
						RPD = 7.31	
7 Dicamba							
1	6.721	6.720	0.001	585243873	0.5000	0.5434	
2	6.914	6.910	0.004	2806366329	0.5000	0.5603	
						RPD = 3.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.872	6.867	0.005	104343971	100.0	99.8	
2	6.960	6.955	0.005	444937631	100.0	101.1	
						RPD = 1.25	
9 MCPA							
1	7.000	6.994	0.006	98467290	100.0	106.3	
2	7.161	7.155	0.006	1151515629	100.0	100.2	
						RPD = 5.90	
10 Dichlorprop							
1	7.181	7.180	0.001	290874356	1.00	1.05	
2	7.300	7.297	0.003	1571966456	1.00	1.12	
						RPD = 6.18	
11 2,4-D							
1	7.323	7.326	-0.003	357181097	1.00	1.18	
2	7.517	7.517	0.000	1888747044	1.00	1.19	
						RPD = 0.35	
12 Pentachlorophenol							
1	7.675	7.674	0.001	1628549099	0.2500	0.3025	
2	7.718	7.714	0.004	5004401348	0.2500	0.2661	
						RPD = 12.81	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	572693944	0.2500	0.3048	
2	7.848	7.846	0.002	2191601950	0.2500	0.2965	
						RPD = 2.77	
14 Chloramben							
1	7.848	7.855	-0.007	2124806109	1.00	1.00	
2	8.161	8.162	-0.001	6392220091	1.00	1.14	
						RPD = 12.86	
15 2,4,5-T							
1	7.923	7.929	-0.006	547016891	0.2500	0.2493	
2	8.082	8.083	-0.001	2066383005	0.2500	0.3109	
						RPD = 21.97	
16 2,4-DB							
1	8.167	8.175	-0.008	208315295	1.00	1.00	
2	8.298	8.302	-0.004	1002259721	1.00	1.02	
						RPD = 1.78	
17 Dinoseb							
1	8.224	8.224	0.000	1502700567	1.00	1.23	
2	8.252	8.248	0.004	4922703086	1.00	1.07	
						RPD = 13.86	
18 Bentazon							
1	8.299	8.300	-0.001	295542031	1.00	1.03	
2	8.664	8.662	0.002	907942100	1.00	1.13	
						RPD = 9.41	
19 Picloram							M
1	8.523	8.529	-0.006	3668133130	1.00	1.00	
2	9.011	9.005	0.006	11467491007	1.00	1.03	M
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	3847093339	1.00	1.17	
2	8.784	8.775	0.009	9887348056	1.00	1.01	
						RPD = 14.85	
21 Acifluorfen							M
1	9.667	9.666	0.001	3202033523	1.00	1.00	
2	9.799	9.792	0.007	9631196972	1.00	0.8404	M
						RPD = 17.32	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

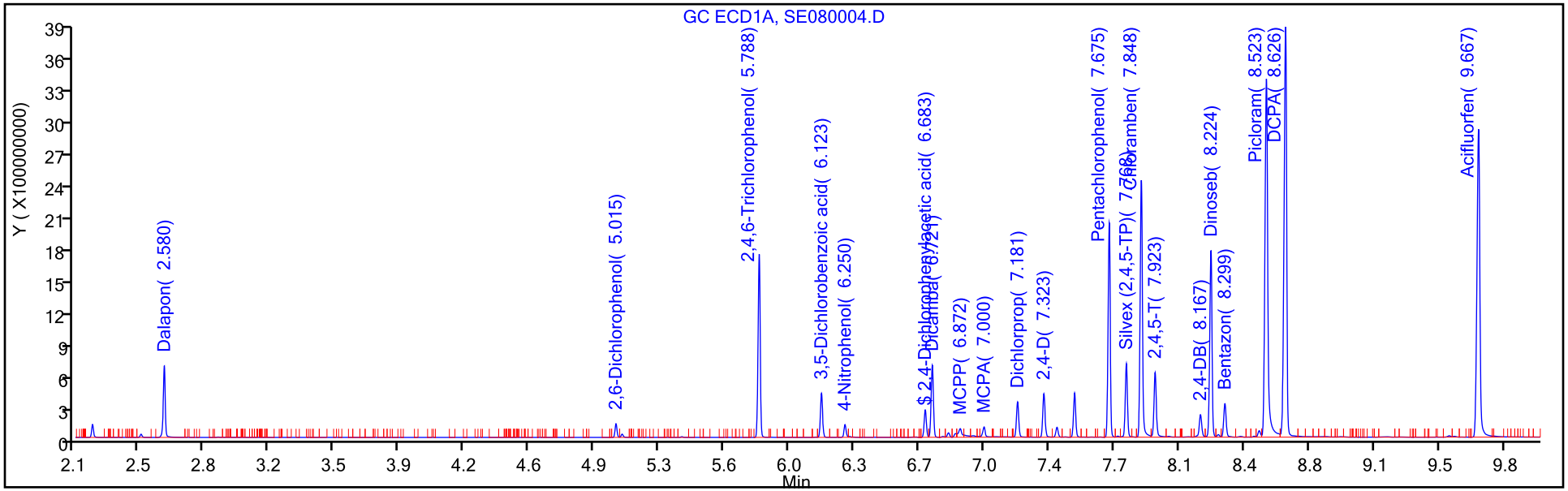
Report Date: 08-May-2018 16:25:00 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

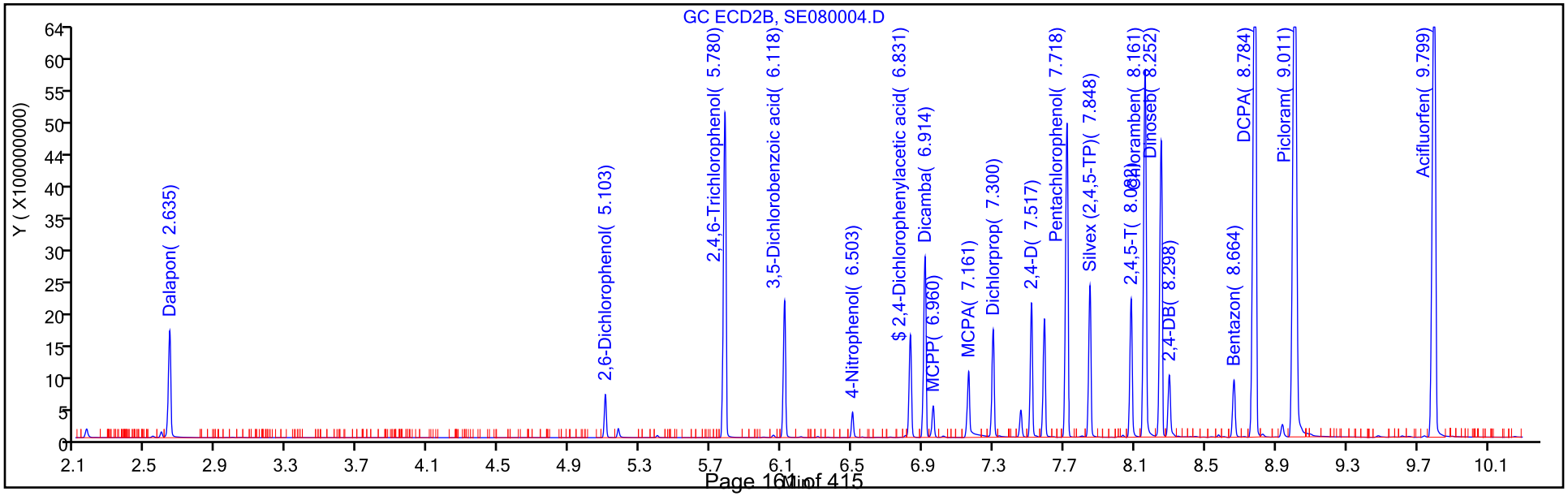
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D

Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-May-2018 12:17:37 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:07 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	252815070	0.5000	0.4824	
2	2.634	2.632	0.002	817578391	0.5000	0.5073	
						RPD = 5.02	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	47948482	NC	NC	
2	5.102	5.102	0.000	271150549	NC	NC	
						RPD = 2.29	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	660797633	NC	NC	
2	5.779	5.776	0.003	2813586787	NC	NC	
						RPD = 0.79	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	165004902	0.5000	0.5134	
2	6.116	6.116	0.000	930526789	0.5000	0.5178	
						RPD = 0.87	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	48081748	0.5000	0.5200	
2	6.503	6.505	-0.002	158696116	0.5000	0.5307	
						RPD = 2.03	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	105220295	0.5000	0.4975	
2	6.830	6.829	0.001	717491043	0.5000	0.5097	
						RPD = 2.41	
7 Dicamba							
1	6.720	6.720	0.000	282435535	0.2500	0.2622	
2	6.911	6.910	0.001	1347001642	0.2500	0.2689	
						RPD = 2.51	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.870	6.867	0.003	39090261	50.0	51.7	
2	6.957	6.955	0.002	205635557	50.0	46.2	
						RPD = 11.18	
9 MCPA							
1	6.996	6.994	0.002	51596040	50.0	55.7	
2	7.157	7.155	0.002	386345329	50.0	47.9	
						RPD = 14.99	
10 Dichlorprop							
1	7.180	7.180	0.000	144063420	0.5000	0.5192	
2	7.298	7.297	0.001	719800477	0.5000	0.5106	
						RPD = 1.67	
11 2,4-D							
1	7.322	7.326	-0.004	172138047	0.5000	0.5692	
2	7.515	7.517	-0.002	885627489	0.5000	0.5558	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	762859467	0.1250	0.1417	
2	7.716	7.714	0.002	2634537256	0.1250	0.1401	
						RPD = 1.15	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	276913650	0.1250	0.1474	
2	7.846	7.846	0.000	1061020220	0.1250	0.1435	
						RPD = 2.64	
14 Chloramben							
1	7.849	7.855	-0.006	948055347	0.5000	0.5069	
2	8.160	8.162	-0.002	3398296359	0.5000	0.6041	
						RPD = 17.50	
15 2,4,5-T							
1	7.922	7.929	-0.007	274321777	0.1250	0.1250	
2	8.080	8.083	-0.003	974569507	0.1250	0.1466	
						RPD = 15.89	
16 2,4-DB							
1	8.167	8.175	-0.008	95758632	0.5000	0.5113	
2	8.297	8.302	-0.005	474832365	0.5000	0.4814	
						RPD = 6.02	
17 Dinoseb							
1	8.223	8.224	-0.001	686899035	0.5000	0.5612	
2	8.250	8.248	0.002	2438912841	0.5000	0.5329	
						RPD = 5.19	
18 Bentazon							
1	8.299	8.300	-0.001	144238238	0.5000	0.5016	
2	8.663	8.662	0.001	439887803	0.5000	0.5471	
						RPD = 8.68	
19 Picloram							
1	8.523	8.529	-0.006	1551637070	0.5000	0.5051	
2	9.005	9.005	0.000	5780160796	0.5000	0.5230	
						RPD = 3.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	1796815722	0.5000	0.5456	
2	8.779	8.775	0.004	5536696155	0.5000	0.5638	
						RPD = 3.27	
21 Acifluorfen							
1	9.665	9.666	-0.001	1382056162	0.5000	0.5016	
2	9.794	9.792	0.002	4770908516	0.5000	0.4992	
						RPD = 0.48	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

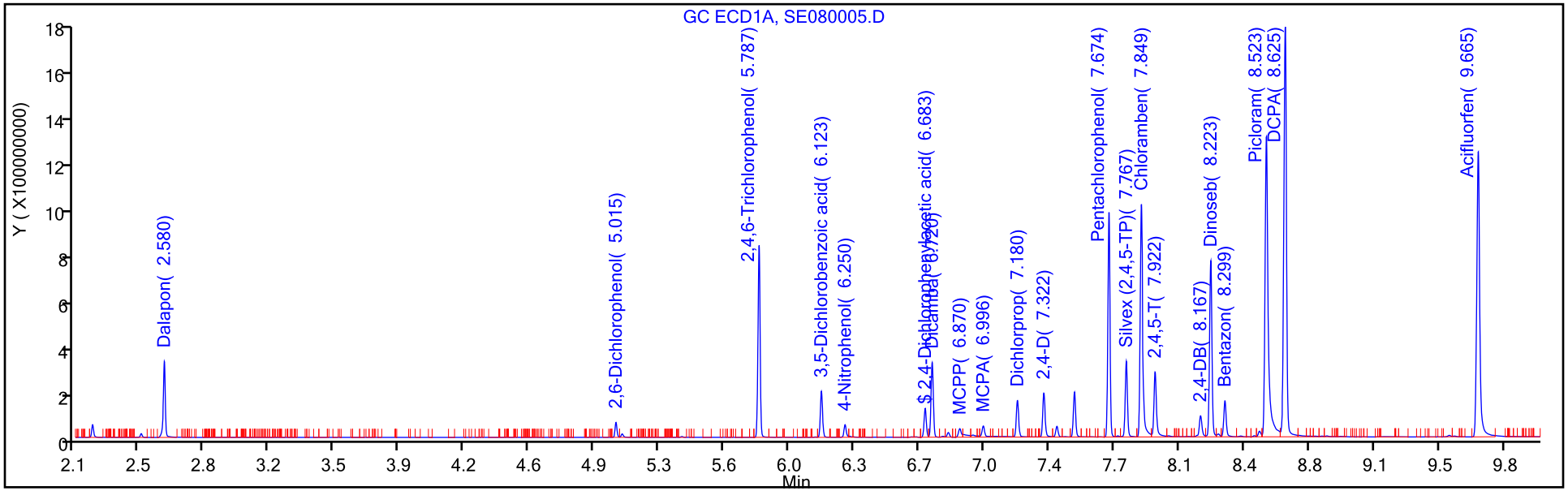
Report Date: 08-May-2018 16:25:08 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

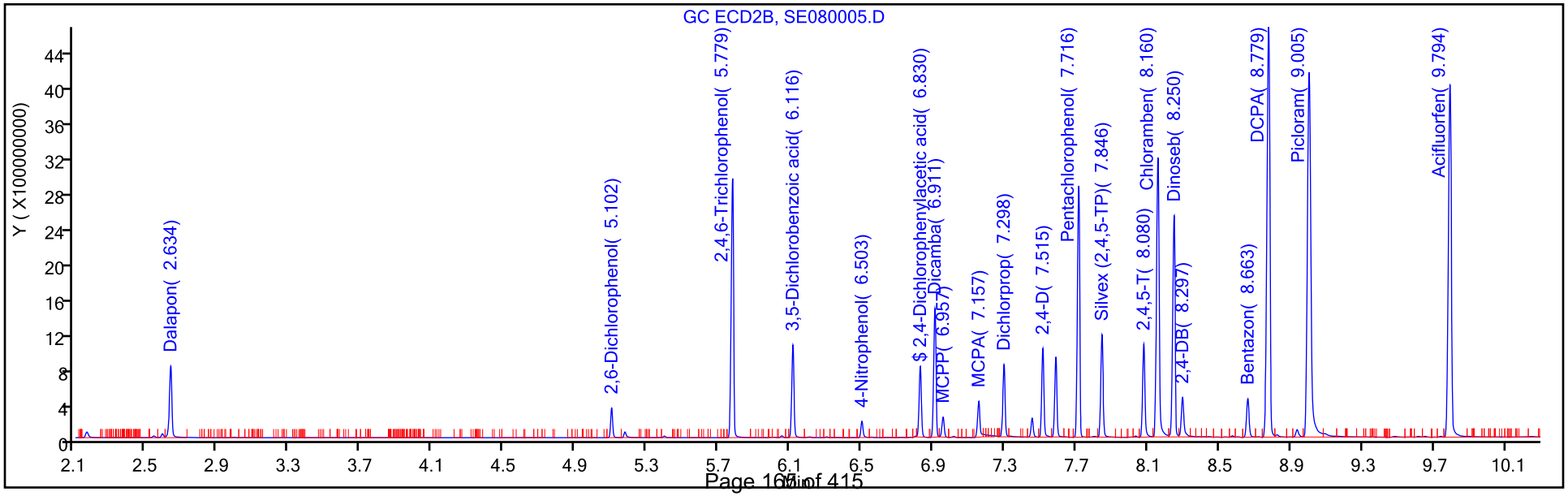
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D

Injection Date:	08-May-2018 12:17:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-May-2018 12:37:18 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:13 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	126339938	0.2500	0.2411	
2	2.633	2.632	0.001	395304302	0.2500	0.2453	
						RPD = 1.72	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	24075005	NC	NC	
2	5.102	5.102	0.000	134909465	NC	NC	
						RPD = 1.37	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	317115758	NC	NC	
2	5.778	5.776	0.002	1376798630	NC	NC	
						RPD = 1.15	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	81038461	0.2500	0.2521	
2	6.117	6.116	0.001	448811682	0.2500	0.2498	
						RPD = 0.94	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	26992258	0.2500	0.2919	
2	6.503	6.505	-0.002	77606749	0.2500	0.2595	
						RPD = 11.76	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	51149844	0.2500	0.2419	
2	6.829	6.829	0.000	353488120	0.2500	0.2511	
						RPD = 3.75	
7 Dicamba							
1	6.721	6.720	0.001	135663470	0.1250	0.1260	
2	6.911	6.910	0.001	650915415	0.1250	0.1299	
						RPD = 3.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	12687646	25.0	22.2	
2	6.956	6.955	0.001	111381364	25.0	24.6	
						RPD = 10.33	
9 MCPA							
1	6.995	6.994	0.001	25890792	25.0	28.0	
2	7.155	7.155	0.000	177192173	25.0	26.6	
						RPD = 4.94	
10 Dichlorprop							
1	7.181	7.180	0.001	70616500	0.2500	0.2545	
2	7.298	7.297	0.001	352257271	0.2500	0.2499	
						RPD = 1.83	
11 2,4-D							
1	7.323	7.326	-0.003	81489809	0.2500	0.2695	
2	7.516	7.517	-0.001	419247494	0.2500	0.2631	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	357293439	0.0625	0.0664	
2	7.715	7.714	0.001	1280290405	0.0625	0.0681	
						RPD = 2.54	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	130284362	0.0625	0.0693	
2	7.846	7.846	0.000	500698059	0.0625	0.0677	
						RPD = 2.34	
14 Chloramben							
1	7.850	7.855	-0.005	420812351	0.2500	0.2467	
2	8.159	8.162	-0.003	1585218711	0.2500	0.2818	
						RPD = 13.26	
15 2,4,5-T							
1	7.924	7.929	-0.005	138404340	0.0625	0.0631	
2	8.079	8.083	-0.004	450029272	0.0625	0.0677	
						RPD = 7.07	
16 2,4-DB							
1	8.169	8.175	-0.006	41914777	0.2500	0.2443	
2	8.298	8.302	-0.004	234527590	0.2500	0.2378	
						RPD = 2.69	
17 Dinoseb							
1	8.223	8.224	-0.001	318205530	0.2500	0.2600	
2	8.248	8.248	0.000	1104528845	0.2500	0.2450	
						RPD = 5.93	
18 Bentazon							
1	8.299	8.300	-0.001	71761268	0.2500	0.2496	
2	8.661	8.662	-0.001	209189101	0.2500	0.2602	
						RPD = 4.17	
19 Picloram							
1	8.525	8.529	-0.004	675298882	0.2500	0.2482	
2	9.005	9.005	0.000	2545447676	0.2500	0.2355	
						RPD = 5.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	842695237	0.2500	0.2559	
2	8.778	8.775	0.003	2733977251	0.2500	0.2784	
						RPD = 8.42	
21 Acifluorfen							
1	9.665	9.666	-0.001	633038479	0.2500	0.2522	
2	9.793	9.792	0.001	2098074459	0.2500	0.2582	
						RPD = 2.37	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

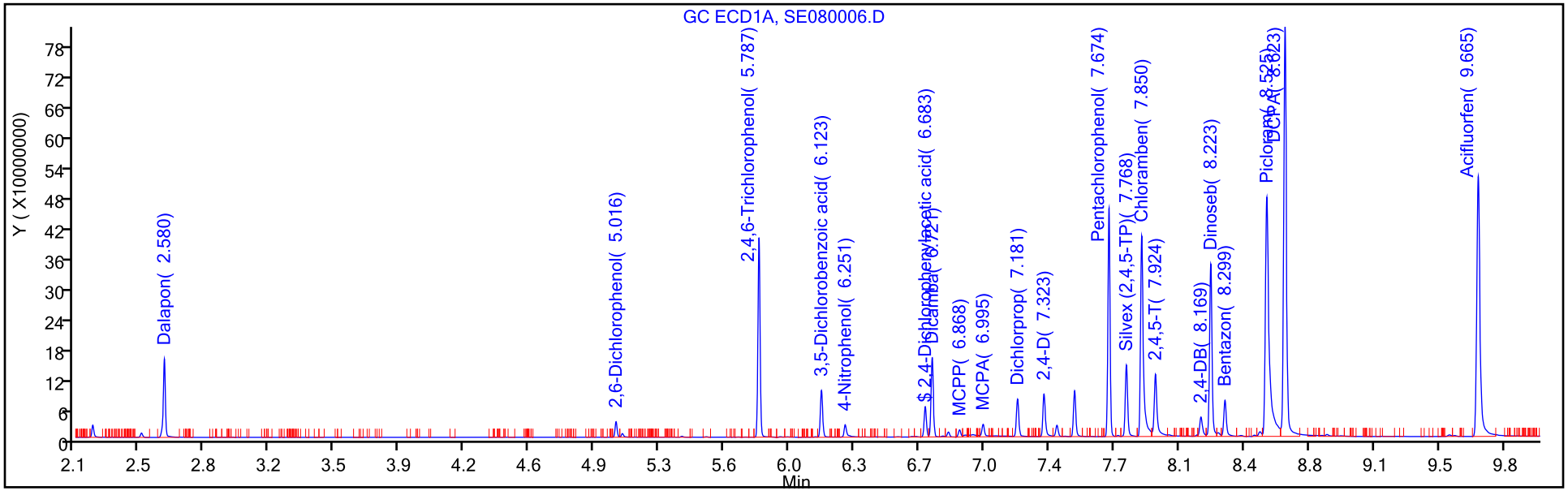
Report Date: 08-May-2018 16:25:14 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

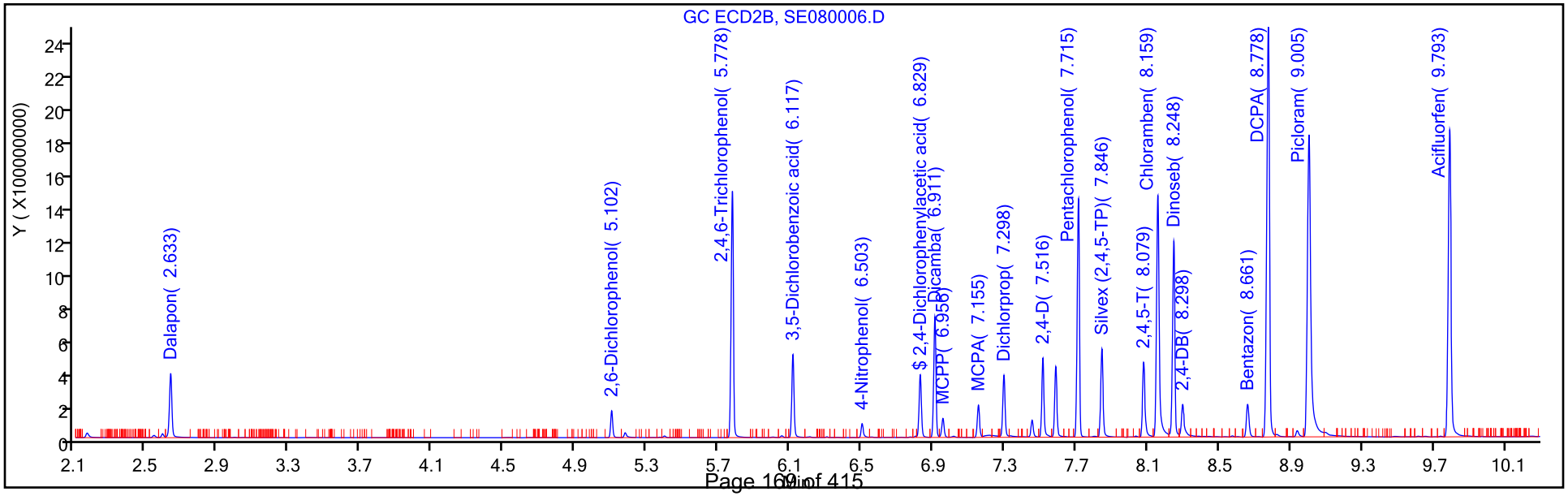
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080006.D

Injection Date:	08-May-2018 12:37:18	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-May-2018 12:56:54 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:18 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: meinckeg Date: 08-May-2018 13:25:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	87735176	0.1750	0.1674	
2	2.633	2.632	0.001	265586882	0.1750	0.1648	
						RPD = 1.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16721808	NC	NC	
2	5.101	5.102	-0.001	91409134	NC	NC	
						RPD = 1.11	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	212201404	NC	NC	
2	5.776	5.776	0.000	921748528	NC	NC	
						RPD = 1.20	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	54279812	0.1750	0.1689	
2	6.116	6.116	0.000	300893318	0.1750	0.1674	
						RPD = 0.85	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	17047628	0.1750	0.1844	
2	6.504	6.505	-0.001	52193224	0.1750	0.1745	
						RPD = 5.49	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	35013881	0.1750	0.1656	
2	6.829	6.829	0.000	235040238	0.1750	0.1670	
						RPD = 0.84	
7 Dicamba							
1	6.721	6.720	0.001	91550778	0.0875	0.0850	
2	6.911	6.910	0.001	429620976	0.0875	0.0858	
						RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	8640069	17.5	16.3	
2	6.955	6.955	0.000	77011106	17.5	16.8	
						RPD = 2.77	
9 MCPA							
1	6.994	6.994	0.000	17766771	17.5	19.2	
2	7.153	7.155	-0.002	121752778	17.5	19.6	
						RPD = 2.31	
10 Dichlorprop							
1	7.181	7.180	0.001	48109296	0.1750	0.1734	
2	7.296	7.297	-0.001	231436814	0.1750	0.1642	
						RPD = 5.46	
11 2,4-D							
1	7.324	7.326	-0.002	54093373	0.1750	0.1789	
2	7.515	7.517	-0.002	272374787	0.1750	0.1709	
						RPD = 4.55	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	237204468	0.0438	0.0441	
2	7.713	7.714	-0.001	840761037	0.0438	0.0447	
						RPD = 1.45	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	84634924	0.0438	0.0450	
2	7.845	7.846	-0.001	324244276	0.0438	0.0439	
						RPD = 2.66	
14 Chloramben							
1	7.852	7.855	-0.003	269520100	0.1750	0.1655	
2	8.159	8.162	-0.003	1019151525	0.1750	0.1812	
						RPD = 9.06	
15 2,4,5-T							
1	7.925	7.929	-0.004	93534318	0.0438	0.0426	
2	8.080	8.083	-0.003	287476934	0.0438	0.0433	
						RPD = 1.44	
16 2,4-DB							
1	8.171	8.175	-0.004	26059778	0.1750	0.1599	
2	8.298	8.302	-0.004	166644052	0.1750	0.1690	
						RPD = 5.54	
17 Dinoseb							
1	8.222	8.224	-0.002	207576561	0.1750	0.1696	
2	8.246	8.248	-0.002	688241161	0.1750	0.1552	
						RPD = 8.85	
18 Bentazon							
1	8.299	8.300	-0.001	47511232	0.1750	0.1652	
2	8.661	8.662	-0.001	137471207	0.1750	0.1710	
						RPD = 3.43	
19 Picloram							
1	8.526	8.529	-0.003	428630902	0.1750	0.1666	
2	9.005	9.005	0.000	1548770490	0.1750	0.1470	
						RPD = 12.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	565445884	0.1750	0.1717	
2	8.776	8.775	0.001	1775677219	0.1750	0.1808	
						RPD = 5.16	
21 Acifluorfen							
1	9.665	9.666	-0.001	407675485	0.1750	0.1692	
2	9.791	9.792	-0.001	1244184045	0.1750	0.1664	
						RPD = 1.67	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

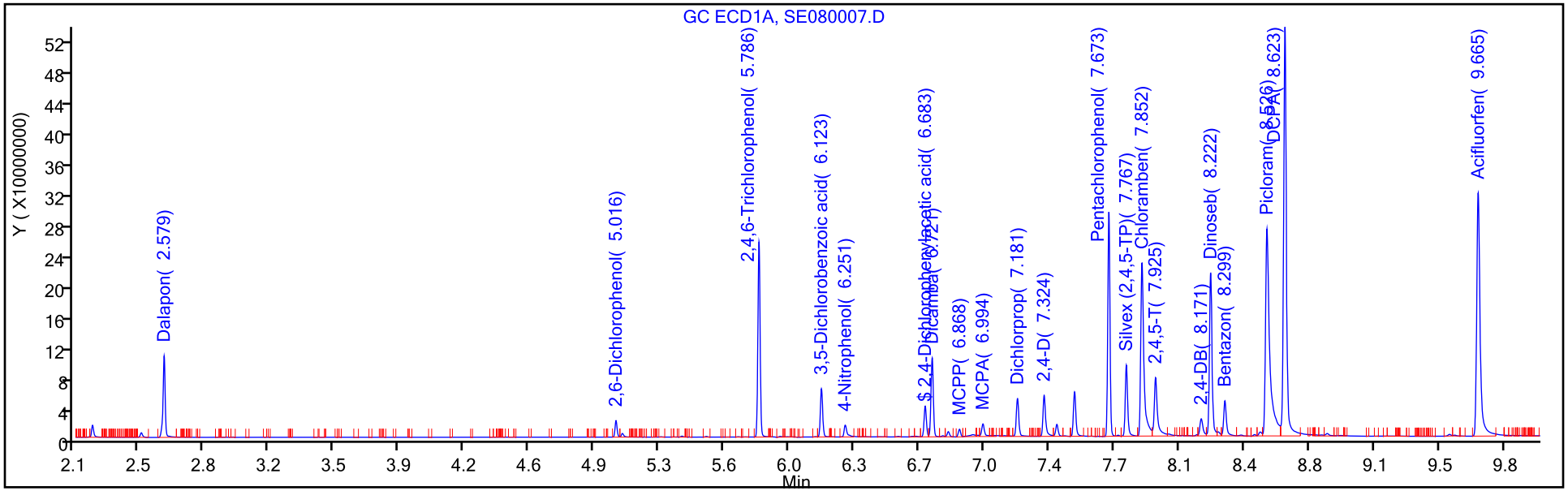
Report Date: 08-May-2018 16:25:19 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

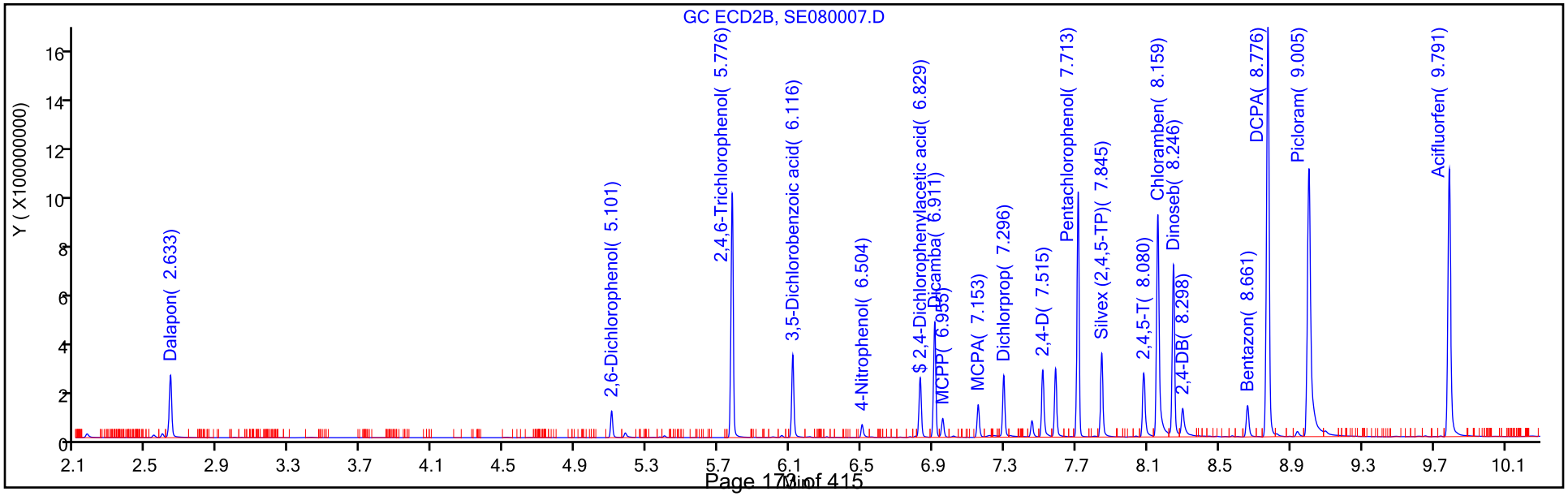
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Injection Date:	08-May-2018 12:56:54	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-May-2018 13:16:38 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:24 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	49026258	0.1000	0.0935	
2	2.632	2.632	0.000	144107629	0.1000	0.0894	
						RPD = 4.52	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	9648349	NC	NC	
2	5.102	5.102	0.000	51409780	NC	NC	
						RPD = 3.66	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	115367190	NC	NC	
2	5.776	5.776	0.000	492889358	NC	NC	
						RPD = 0.46	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	30442227	0.1000	0.0947	
2	6.116	6.116	0.000	163818500	0.1000	0.0912	
						RPD = 3.82	
5 4-Nitrophenol							
1	6.253	6.253	0.000	9830837	0.1000	0.1063	
2	6.505	6.505	0.000	28145758	0.1000	0.0941	
						RPD = 12.18	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	19553071	0.1000	0.0925	
2	6.829	6.829	0.000	126698158	0.1000	0.0900	
						RPD = 2.70	
7 Dicamba							
1	6.720	6.720	0.000	50221281	0.0500	0.0466	
2	6.910	6.910	0.000	229111440	0.0500	0.0457	
						RPD = 1.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	5032337	10.0	10.4	
2	6.955	6.955	0.000	44613118	10.0	9.35	
						RPD = 11.06	
9 MCPA							M
1	6.994	6.994	0.000	10021981	10.0	10.8	
2	7.155	7.155	0.000	72306759	10.0	12.6	M
						RPD = 15.16	
10 Dichlorprop							M
1	7.180	7.180	0.000	27204673	0.1000	0.0980	
2	7.297	7.297	0.000	128102012	0.1000	0.0909	M
						RPD = 7.59	
11 2,4-D							M
1	7.326	7.326	0.000	29475053	0.1000	0.0975	
2	7.517	7.517	0.000	145386532	0.1000	0.0912	M
						RPD = 6.61	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	126808590	0.0250	0.0236	
2	7.714	7.714	0.000	448807878	0.0250	0.0239	M
						RPD = 1.30	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	44774730	0.0250	0.0238	
2	7.846	7.846	0.000	170517091	0.0250	0.0231	M
						RPD = 3.25	
14 Chloramben							M
1	7.855	7.855	0.000	136550994	0.1000	0.0910	
2	8.162	8.162	0.000	528388568	0.1000	0.0939	M
						RPD = 3.16	
15 2,4,5-T							M
1	7.929	7.929	0.000	56867356	0.0250	0.0259	
2	8.083	8.083	0.000	149160522	0.0250	0.0224	M
						RPD = 14.39	
16 2,4-DB							M
1	8.175	8.175	0.000	13655211	0.1000	0.0916	
2	8.302	8.302	0.000	97285447	0.1000	0.0986	M
						RPD = 7.35	
17 Dinoseb							M
1	8.224	8.224	0.000	110631354	0.1000	0.0904	
2	8.248	8.248	0.000	344721192	0.1000	0.0811	M
						RPD = 10.80	
18 Bentazon							M
1	8.300	8.300	0.000	27567147	0.1000	0.0959	
2	8.662	8.662	0.000	74902105	0.1000	0.0932	M
						RPD = 2.86	
19 Picloram							M
1	8.529	8.529	0.000	216808821	0.1000	0.0920	
2	9.005	9.005	0.000	759779337	0.1000	0.0769	M
						RPD = 17.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.623	8.623	0.000	315619469	0.1000	0.0958	
2	8.775	8.775	0.000	947740711	0.1000	0.0965	M
						RPD = 0.69	
21 Acifluorfen							
1	9.666	9.666	0.000	217026310	0.1000	0.0952	
2	9.792	9.792	0.000	596281084	0.1000	0.0890	
						RPD = 6.71	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

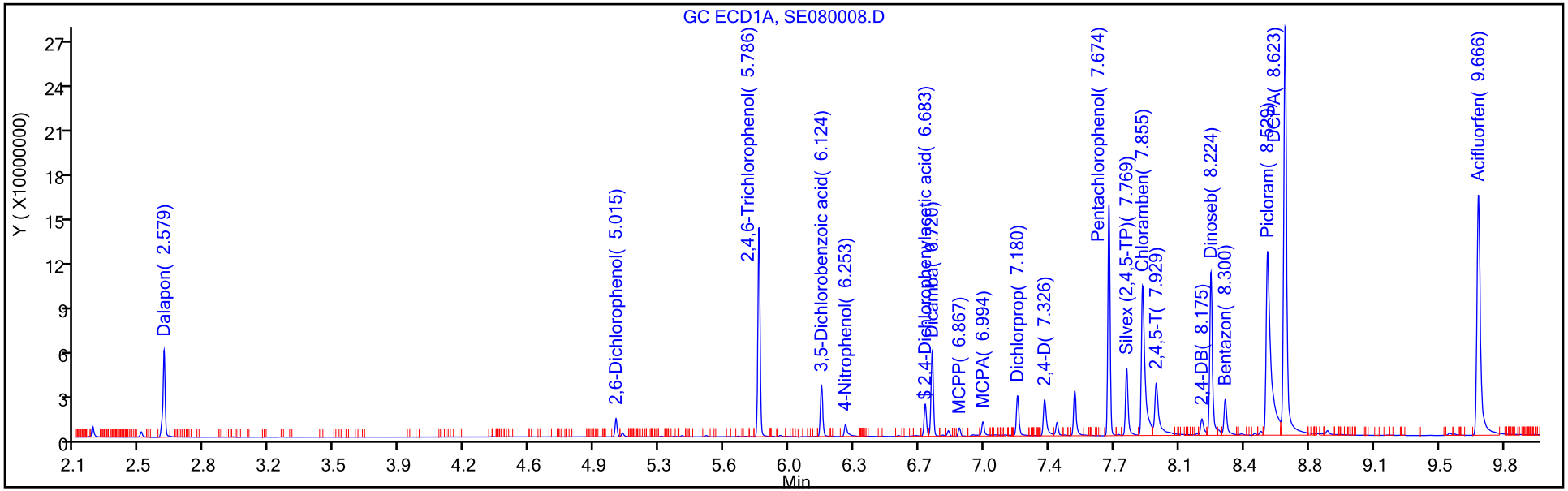
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TestAmerica Savannah

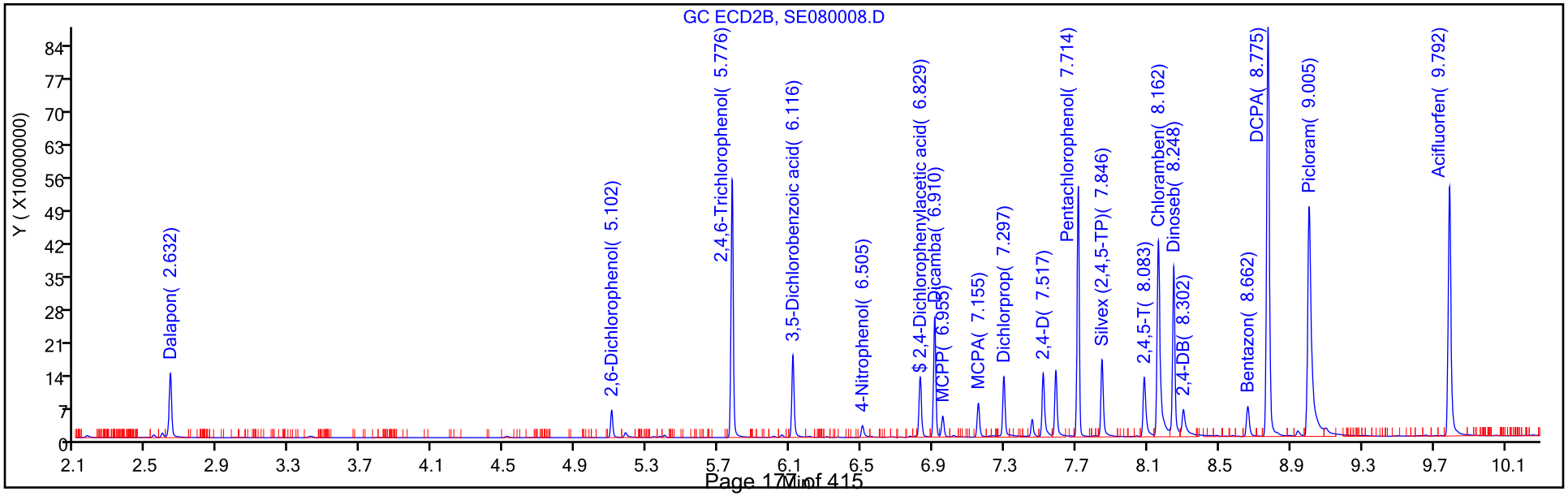
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Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-May-2018 13:36:16 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:32 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:19:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	25290814	0.0500	0.0483	
2	2.632	2.632	0.000	71378402	0.0500	0.0443	
						RPD = 8.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	5120223	NC	NC	
2	5.101	5.102	-0.001	27211487	NC	NC	
						RPD = 3.92	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	55102499	NC	NC	
2	5.776	5.776	0.000	240010788	NC	NC	
						RPD = 1.48	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	15117918	0.0500	0.0470	
2	6.116	6.116	0.000	82525138	0.0500	0.0459	
						RPD = 2.39	
5 4-Nitrophenol							
1	6.254	6.253	0.001	4230904	0.0500	0.0458	
2	6.506	6.505	0.001	14245923	0.0500	0.0476	
						RPD = 4.02	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	9821711	0.0500	0.0464	
2	6.829	6.829	0.000	65002540	0.0500	0.0462	
						RPD = 0.58	
7 Dicamba							
1	6.721	6.720	0.001	24549090	0.0250	0.0228	
2	6.909	6.910	-0.001	113374207	0.0250	0.0226	
						RPD = 0.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.866	6.867	-0.001	2565927	5.00	5.99	
2	6.955	6.955	0.000	26339273	5.00	5.17	
						RPD = 14.76	
9 MCPA							
1	6.994	6.994	0.000	4373482	5.00	4.72	
2	7.154	7.155	-0.001	40478712	5.00	7.49	
						RPD = 45.31	
10 Dichlorprop							
1	7.181	7.180	0.001	13064380	0.0500	0.0471	
2	7.297	7.297	0.000	62424883	0.0500	0.0443	
						RPD = 6.13	
11 2,4-D							
1	7.331	7.326	0.005	13528651	0.0500	0.0447	
2	7.520	7.517	0.003	68918972	0.0500	0.0432	
						RPD = 3.38	
12 Pentachlorophenol							
1	7.674	7.674	0.000	60060646	0.0125	0.0112	
2	7.713	7.714	-0.001	214964113	0.0125	0.0114	
						RPD = 2.42	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	20302486	0.0125	0.0108	
2	7.846	7.846	0.000	78639731	0.0125	0.0106	
						RPD = 1.56	
14 Chloramben							
1	7.860	7.855	0.005	60085684	0.0500	0.0468	
2	8.164	8.162	0.002	240336393	0.0500	0.0427	
						RPD = 9.03	
15 2,4,5-T							
1	7.933	7.929	0.004	26566988	0.0125	0.0121	
2	8.086	8.083	0.003	68256754	0.0125	0.0103	
						RPD = 16.45	
16 2,4-DB							
1	8.178	8.175	0.003	5762851	0.0500	0.0472	
2	8.305	8.302	0.003	46624287	0.0500	0.0473	
						RPD = 0.23	
17 Dinoseb							
1	8.225	8.224	0.001	53295649	0.0500	0.0435	
2	8.248	8.248	0.000	154960345	0.0500	0.0402	
						RPD = 8.01	
18 Bentazon							
1	8.301	8.300	0.001	13719455	0.0500	0.0477	
2	8.663	8.662	0.001	35565067	0.0500	0.0442	
						RPD = 7.56	
19 Picloram							
1	8.533	8.529	0.004	94759287	0.0500	0.0468	
2	9.009	9.005	0.004	328532437	0.0500	0.0386	
						RPD = 19.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.624	8.623	0.001	151449071	0.0500	0.0460	
2	8.775	8.775	0.000	451881325	0.0500	0.0460	
						RPD = 0.05	
21 Acifluorfen							
1	9.667	9.666	0.001	97225812	0.0500	0.0468	
2	9.791	9.792	-0.001	248586919	0.0500	0.0440	
						RPD = 6.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

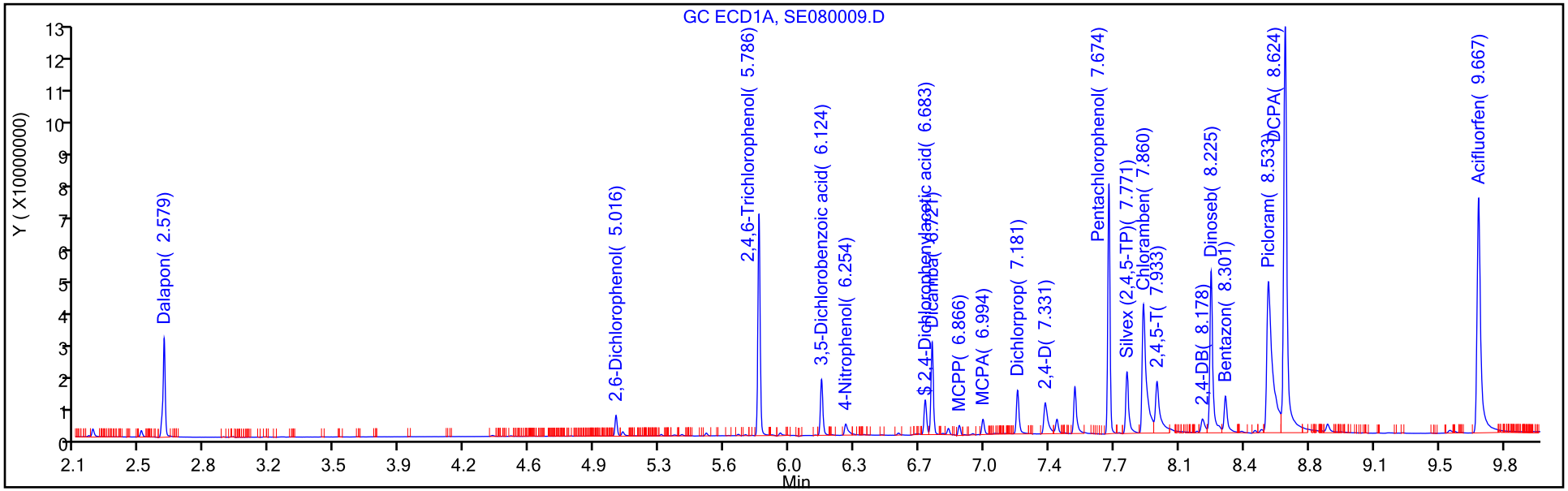
Report Date: 08-May-2018 16:25:34 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

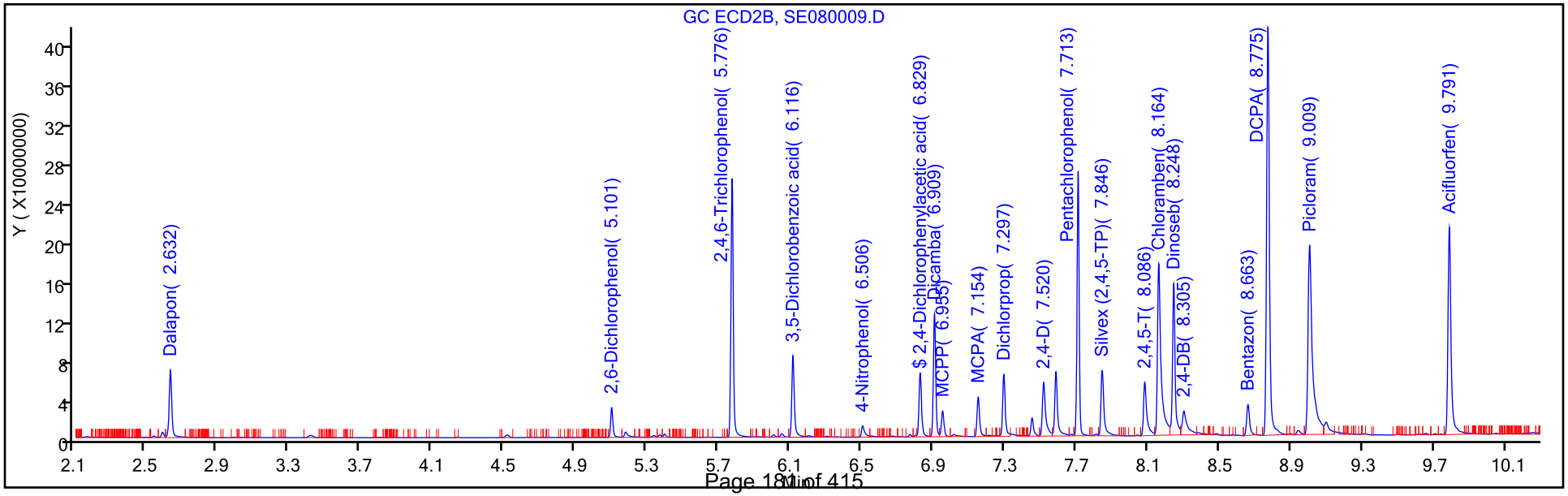
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D

Injection Date:	08-May-2018 13:36:16	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-May-2018 13:55:52 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:38 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	13718735	0.0250	0.0262	
2	2.632	2.632	0.000	39932951	0.0250	0.0248	
						RPD = 5.50	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	2779258	NC	NC	
2	5.102	5.102	0.000	15274619	NC	NC	
						RPD = 0.57	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	27400593	NC	NC	
2	5.776	5.776	0.000	122077658	NC	NC	
						RPD = 3.74	
4 3,5-Dichlorobenzoic acid							
1	6.125	6.124	0.001	8148129	0.0250	0.0254	
2	6.118	6.116	0.002	44015926	0.0250	0.0245	
						RPD = 3.44	
5 4-Nitrophenol							
1	6.258	6.253	0.005	2307008	0.0250	0.0250	
2	6.511	6.505	0.006	7416225	0.0250	0.0248	
						RPD = 0.61	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	5538443	0.0250	0.0262	
2	6.830	6.829	0.001	34723127	0.0250	0.0247	
						RPD = 5.99	
7 Dicamba							
1	6.720	6.720	0.000	13200023	0.0125	0.0123	
2	6.910	6.910	0.000	58578625	0.0125	0.0117	
						RPD = 4.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	1288891	2.50	3.49	
2	6.955	6.955	0.000	16319936	2.50	2.87	
						RPD = 19.60	
9 MCPA							
1	6.995	6.994	0.001	2137688	2.50	2.31	
2	7.155	7.155	0.000	24668652	2.50	4.72	
						RPD = 68.67	
10 Dichlorprop							
1	7.182	7.180	0.002	6871862	0.0250	0.0248	
2	7.298	7.297	0.001	33672808	0.0250	0.0239	
						RPD = 3.61	
11 2,4-D							
1	7.337	7.326	0.011	6740238	0.0250	0.0223	
2	7.524	7.517	0.007	35695833	0.0250	0.0224	
						RPD = 0.50	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	29521455	0.006250	0.005483	
2	7.713	7.714	-0.001	107509203	0.006250	0.005716	
						RPD = 4.15	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	9932955	0.006250	0.005287	
2	7.850	7.846	0.004	39284572	0.006250	0.005315	
						RPD = 0.53	
14 Chloramben							
1	7.864	7.855	0.009	28147981	0.0250	0.0279	
2	8.167	8.162	0.005	117512235	0.0250	0.0209	
						RPD = 28.91	
15 2,4,5-T							
1	7.935	7.929	0.006	13893399	0.006250	0.006333	
2	8.090	8.083	0.007	34680183	0.006250	0.005218	
						RPD = 19.31	
16 2,4-DB							
1	8.182	8.175	0.007	2666490	0.0250	0.0295	
2	8.308	8.302	0.006	26051520	0.0250	0.0264	
						RPD = 10.95	
17 Dinoseb							
1	8.225	8.224	0.001	27141219	0.0250	0.0222	
2	8.250	8.248	0.002	77307007	0.0250	0.0234	
						RPD = 5.56	
18 Bentazon							
1	8.304	8.300	0.004	6986266	0.0250	0.0243	
2	8.665	8.662	0.003	18151512	0.0250	0.0226	
						RPD = 7.33	
19 Picloram							
1	8.538	8.529	0.009	44134008	0.0250	0.0275	
2	9.011	9.005	0.006	155603121	0.0250	0.0232	
						RPD = 16.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	77163736	0.0250	0.0234	
2	8.776	8.775	0.001	226645361	0.0250	0.0231	
						RPD = 1.52	
21 Acifluorfen							
1	9.668	9.666	0.002	48982390	0.0250	0.0268	
2	9.795	9.792	0.003	120359495	0.0250	0.0266	
						RPD = 0.57	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

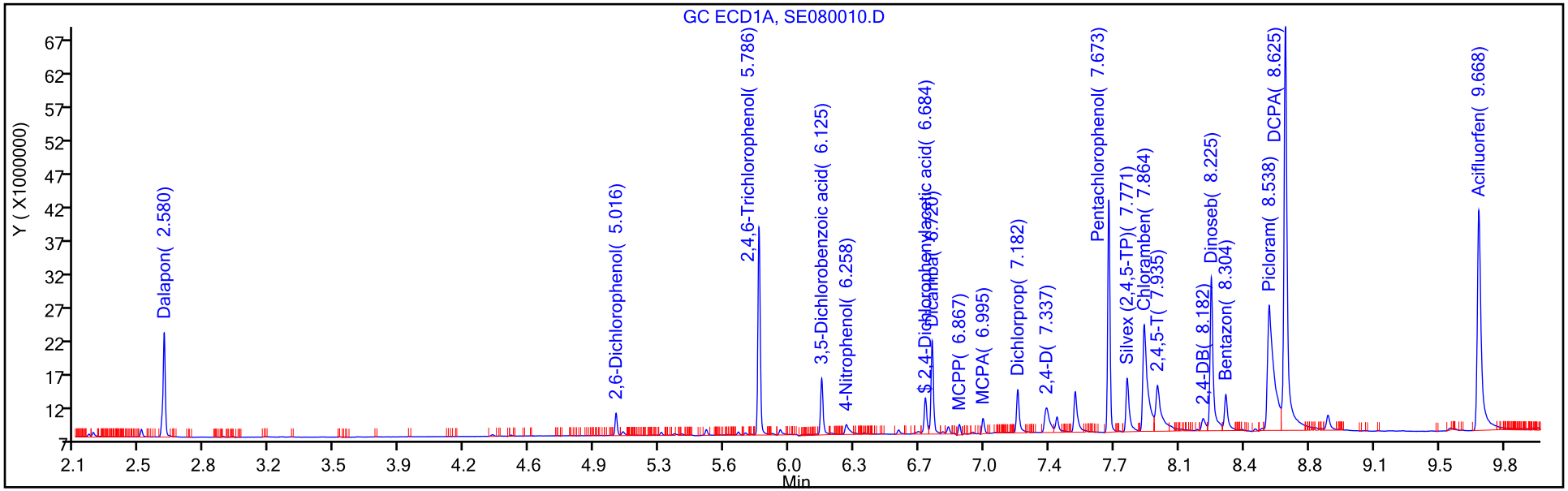
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TestAmerica Savannah

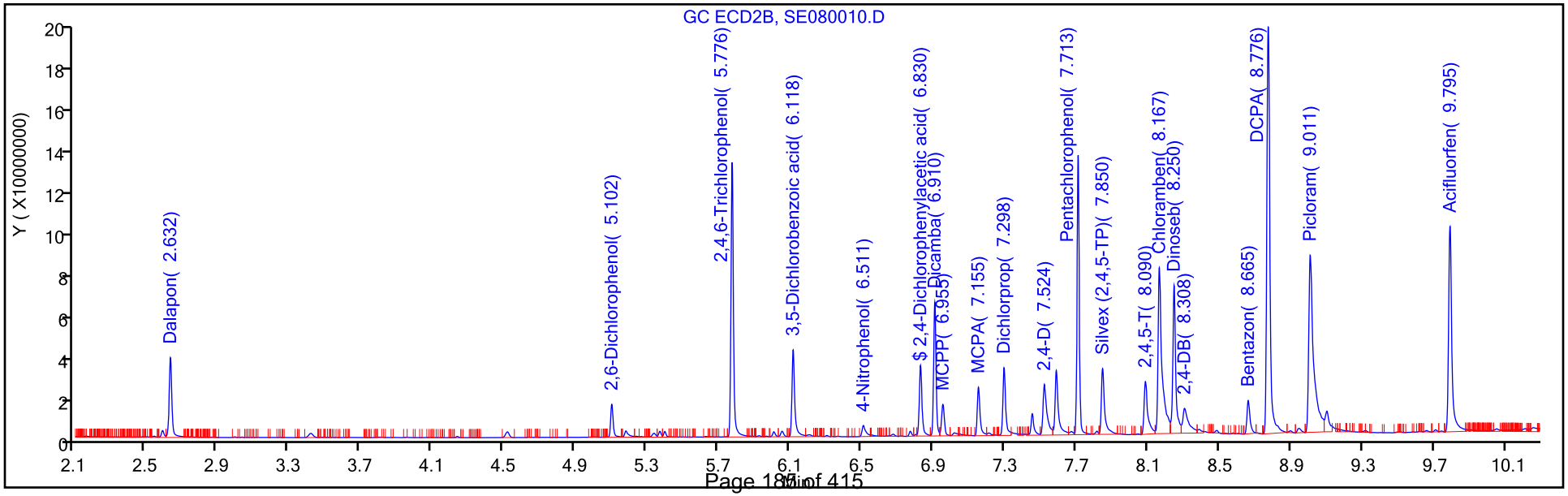
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080010.D

Injection Date:	08-May-2018 13:55:52	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2018 14:15:28 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:44 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:11:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	5906230	0.0100	0.0113	
2	2.633	2.632	0.001	17983150	0.0100	0.0112	
						RPD = 1.00	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	1242849	NC	NC	
2	5.103	5.102	0.001	6728448	NC	NC	
						RPD = 2.08	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	10511883	NC	NC	
2	5.776	5.776	0.000	47802186	NC	NC	
						RPD = 5.78	
4 3,5-Dichlorobenzoic acid							
1	6.126	6.124	0.002	3202229	0.0100	0.0100	
2	6.119	6.116	0.003	18377513	0.0100	0.0102	
						RPD = 2.62	
5 4-Nitrophenol							Ma
1	6.263	6.253	0.010	711986	0.0100	0.007701	a
2	6.516	6.505	0.011	2506531	0.0100	0.008382	M
						RPD = 8.47	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	2325909	0.0100	0.0110	
2	6.831	6.829	0.002	14359475	0.0100	0.0102	
						RPD = 7.53	
7 Dicamba							
1	6.721	6.720	0.001	5346345	0.005000	0.004964	
2	6.911	6.910	0.001	23620770	0.005000	0.004716	
						RPD = 5.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	383358	1.00	1.63	
2	6.956	6.955	0.001	7884133	1.00	0.9383	
						RPD = 53.96	
9 MCPA							
1	6.996	6.994	0.002	684536	1.00	0.7393	
2	7.156	7.155	0.001	12132999	1.00	2.39	
						RPD = 105.59	
10 Dichlorprop							
1	7.182	7.180	0.002	2699462	0.0100	0.009728	
2	7.299	7.297	0.002	15301912	0.0100	0.0109	
						RPD = 10.94	
11 2,4-D							a
1	7.346	7.326	0.020	2400934	0.0100	0.007940	a
2	7.531	7.517	0.014	14551198	0.0100	0.009131	a
						RPD = 13.96	
12 Pentachlorophenol							
1	7.674	7.674	0.000	11008502	0.002500	0.002045	
2	7.713	7.714	-0.001	41165516	0.002500	0.002189	
						RPD = 6.80	
13 Silvex (2,4,5-TP)							
1	7.776	7.769	0.007	3531202	0.002500	0.001880	
2	7.851	7.846	0.005	16213772	0.002500	0.002194	
						RPD = 15.42	
14 Chloramben							
1	7.868	7.855	0.013	10146304	0.0100	0.0173	
2	8.171	8.162	0.009	45179417	0.0100	0.008031	
						RPD = 72.95	
15 2,4,5-T							
1	7.937	7.929	0.008	5683855	0.002500	0.002591	
2	8.089	8.083	0.006	14207297	0.002500	0.002138	
						RPD = 19.17	
16 2,4-DB							Ma
1	8.185	8.175	0.010	957156	0.0100	0.0196	M
2	8.312	8.302	0.010	10871976	0.0100	0.0110	a
						RPD = 56.23	
17 Dinoseb							
1	8.227	8.224	0.003	10802376	0.0100	0.008826	
2	8.251	8.248	0.003	30077804	0.0100	0.0133	
						RPD = 40.12	
18 Bentazon							
1	8.306	8.300	0.006	3164677	0.0100	0.0110	
2	8.665	8.662	0.003	7803979	0.0100	0.009707	
						RPD = 12.54	
19 Picloram							a
1	8.546	8.529	0.017	16249913	0.0100	0.0167	a
2	9.014	9.005	0.009	57128370	0.0100	0.0144	a
						RPD = 14.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	28939470	0.0100	0.008788	
2	8.777	8.775	0.002	86672796	0.0100	0.008825	
						RPD = 0.42	
21 Acifluorfen							
1	9.670	9.666	0.004	18199991	0.0100	0.0138	
2	9.794	9.792	0.002	40645245	0.0100	0.0156	
						RPD = 11.77	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

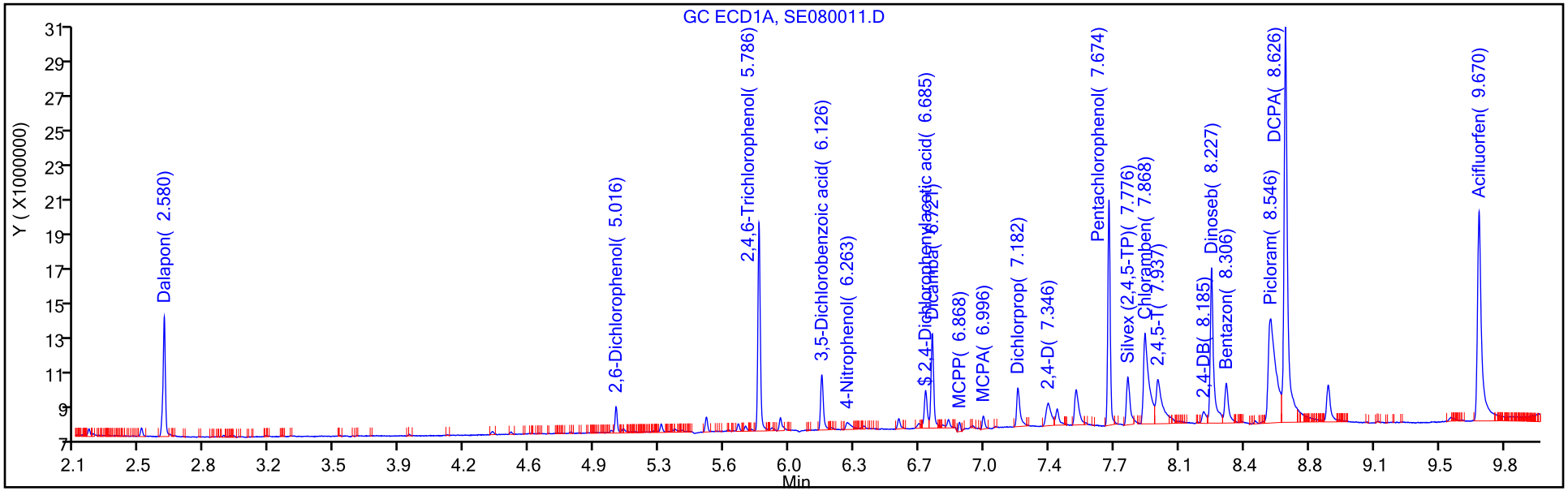
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TestAmerica Savannah

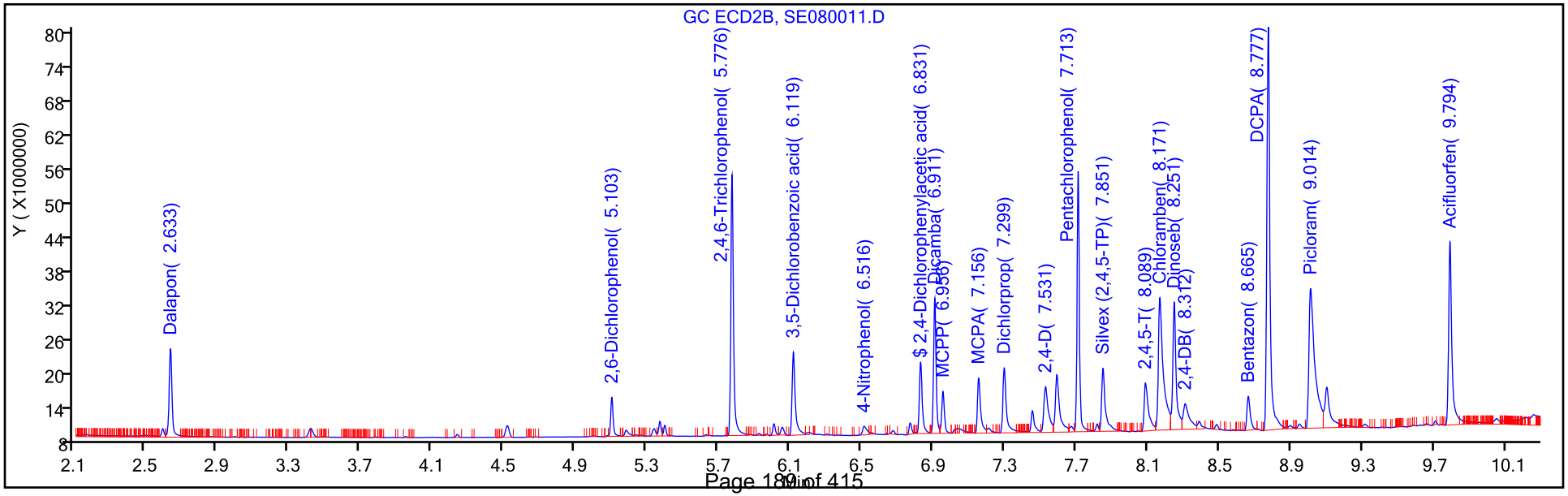
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

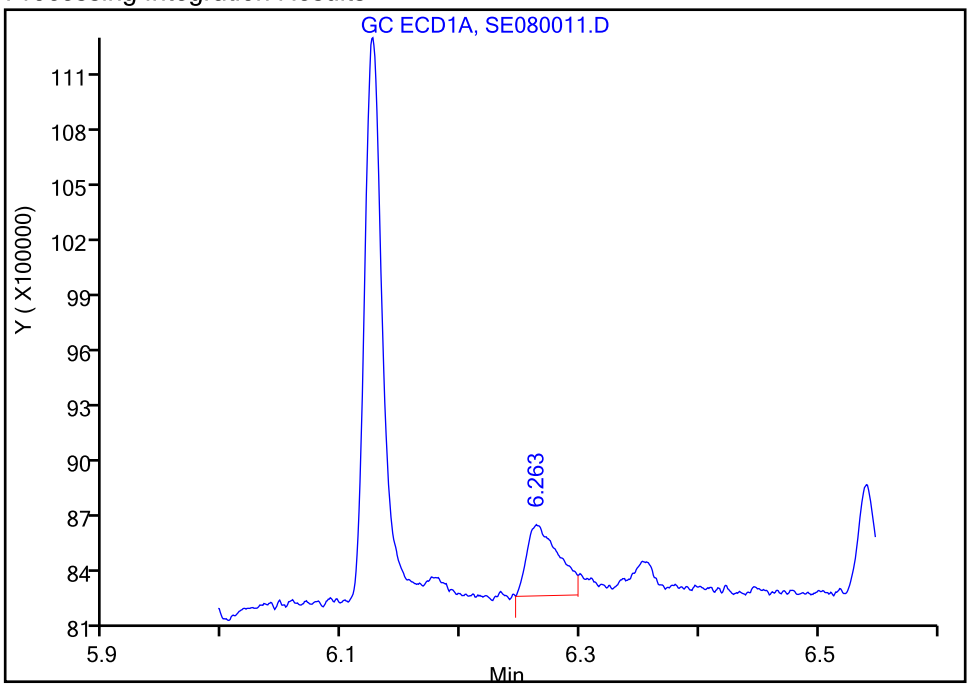
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Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS		
Lims ID:	ic h1				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

5 4-Nitrophenol, CAS: 100-02-7

Signal: 1

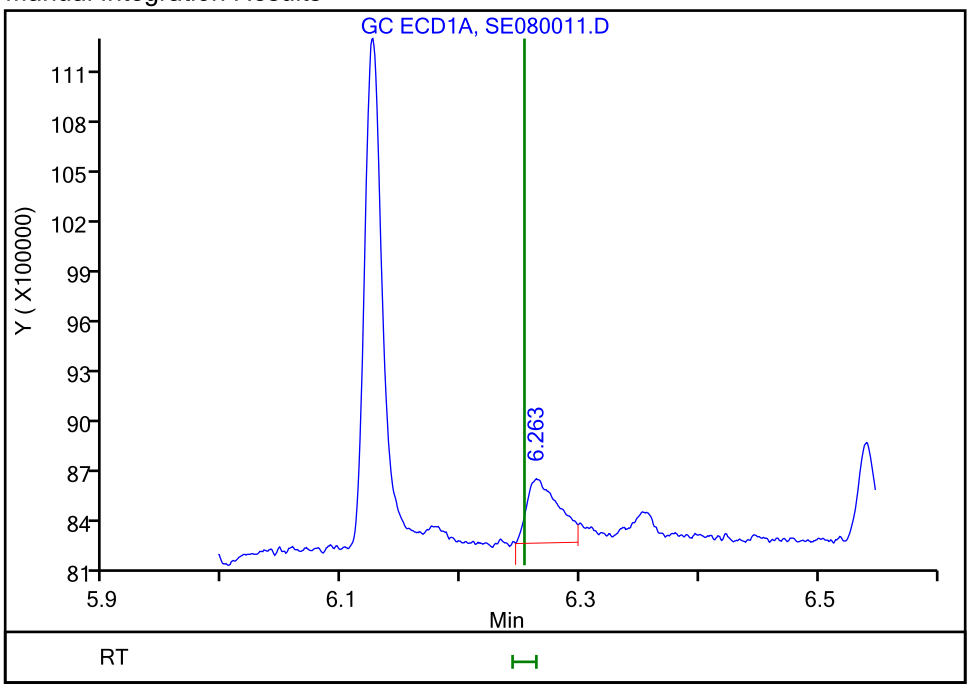
Processing Integration Results

RT: 6.26
Area: 711986
Amount: 0.007640
Amount Units: ug/ml



Manual Integration Results

RT: 6.26
Area: 711986
Amount: 0.007701
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:18
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

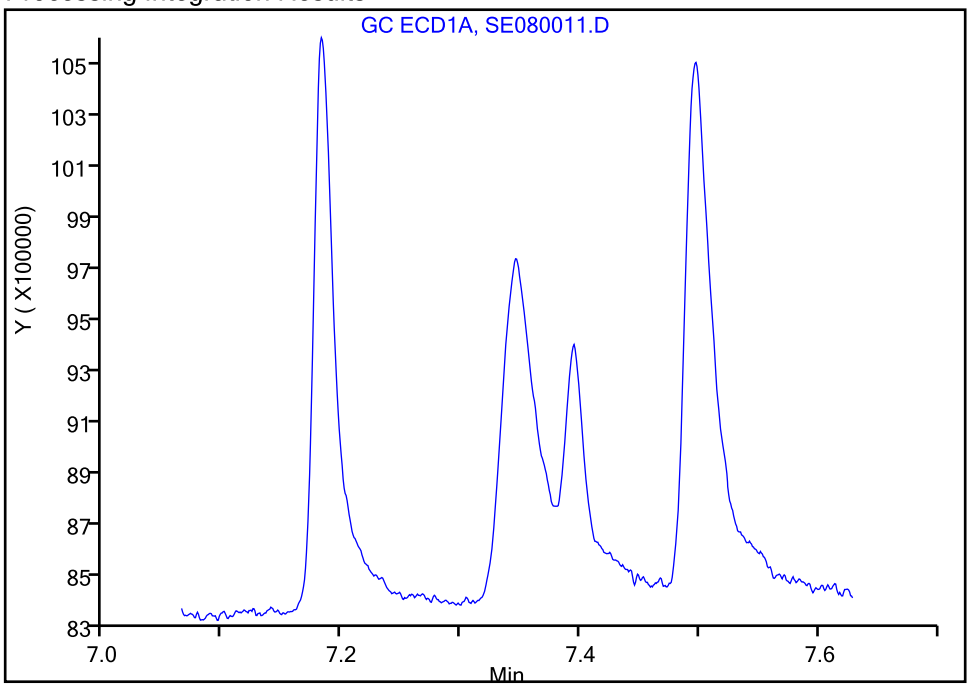
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS		
Lims ID:	ic h1				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

11 2,4-D, CAS: 94-75-7

Signal: 1

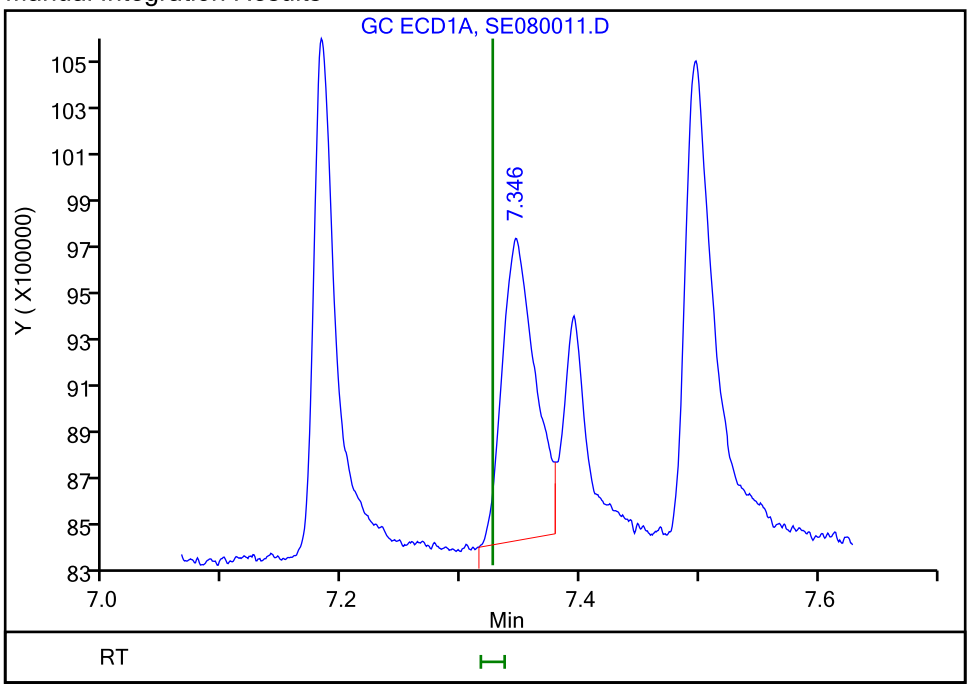
Not Detected
Expected RT: 7.33

Processing Integration Results



Manual Integration Results

RT: 7.35
Area: 2400934
Amount: 0.007940
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:12
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

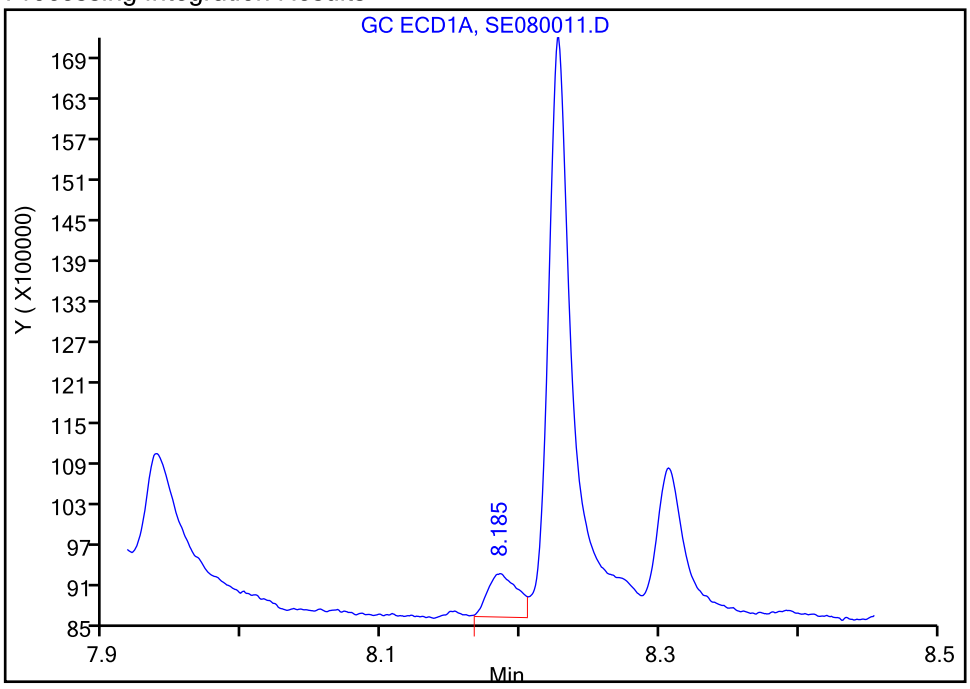
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Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS		
Lims ID:	ic h1				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

16 2,4-DB, CAS: 94-82-6

Signal: 1

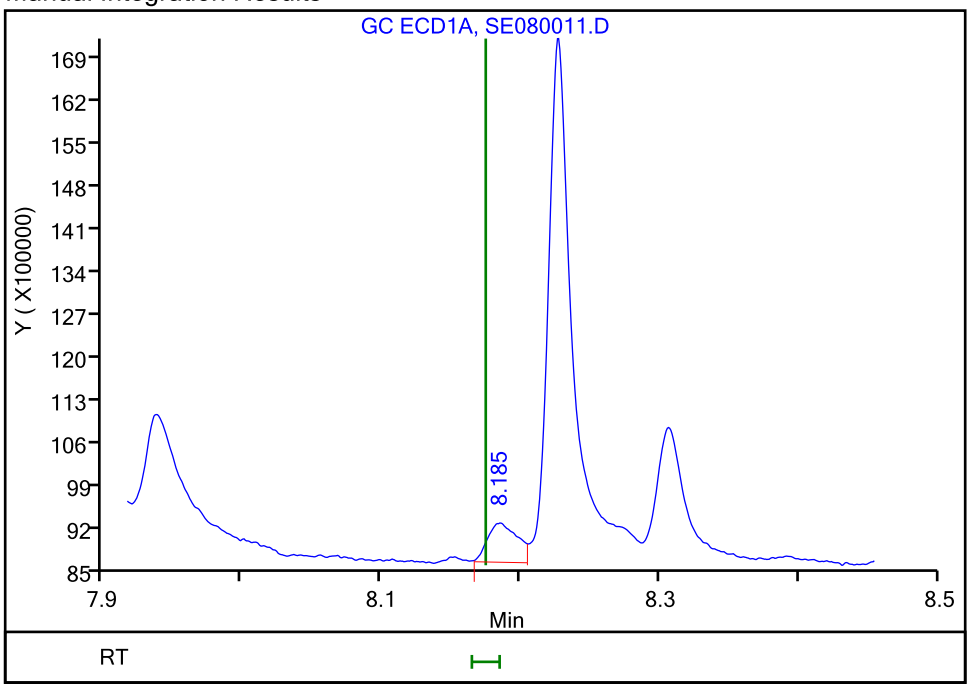
Processing Integration Results

RT: 8.18
Area: 957156
Amount: 0.021175
Amount Units: ug/ml



Manual Integration Results

RT: 8.18
Area: 957156
Amount: 0.019645
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:32

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

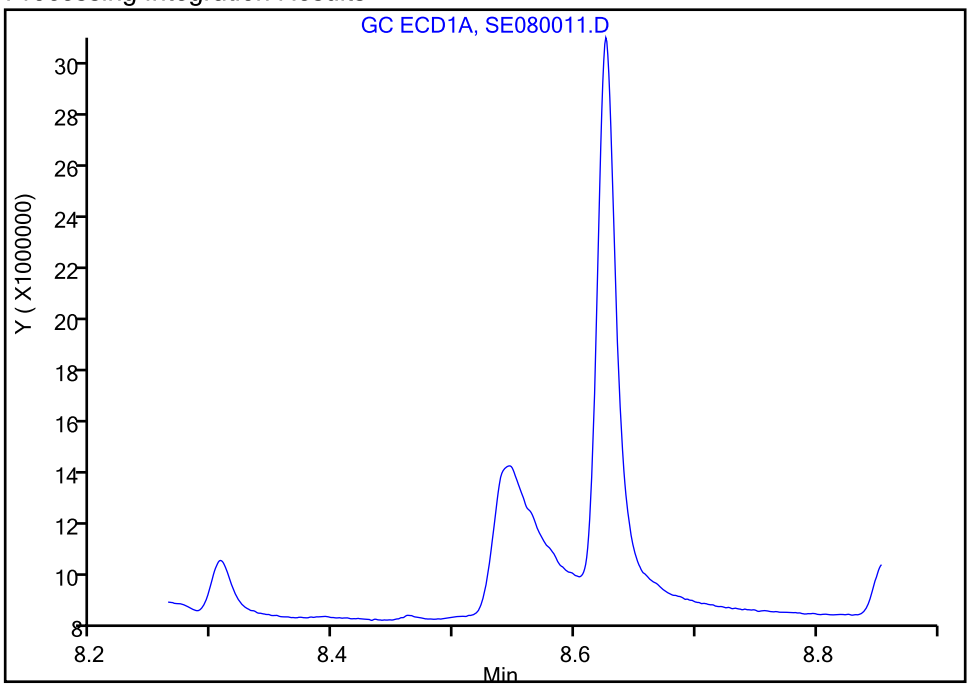
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS		
Lims ID:	ic h1				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

19 Picloram, CAS: 1918-02-1

Signal: 1

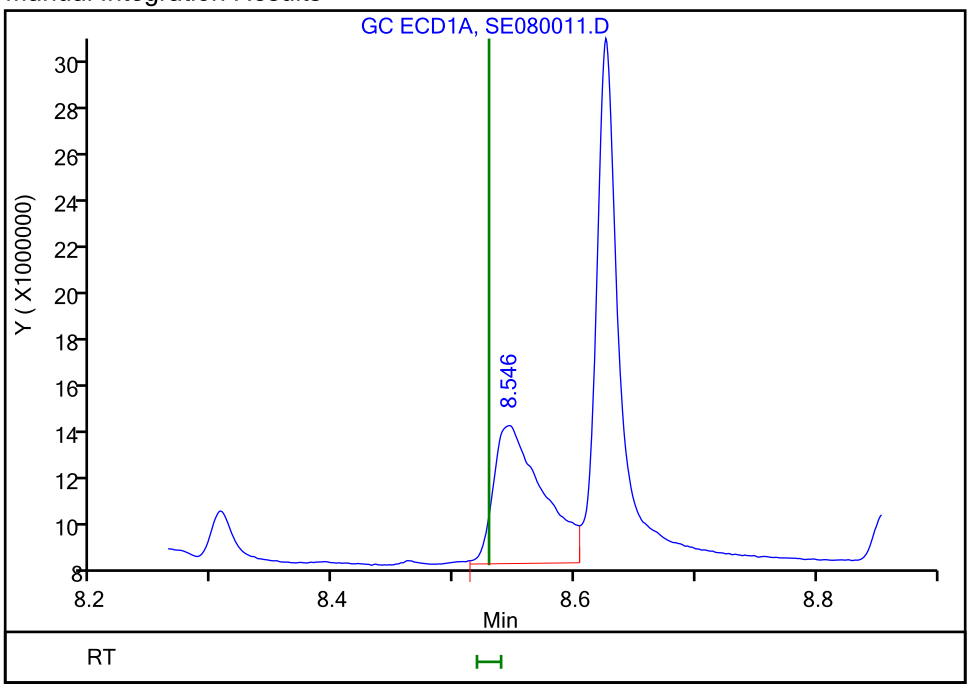
Not Detected
Expected RT: 8.53

Processing Integration Results



Manual Integration Results

RT: 8.55
Area: 16249913
Amount: 0.016709
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:41
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Calibration / Dalapon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

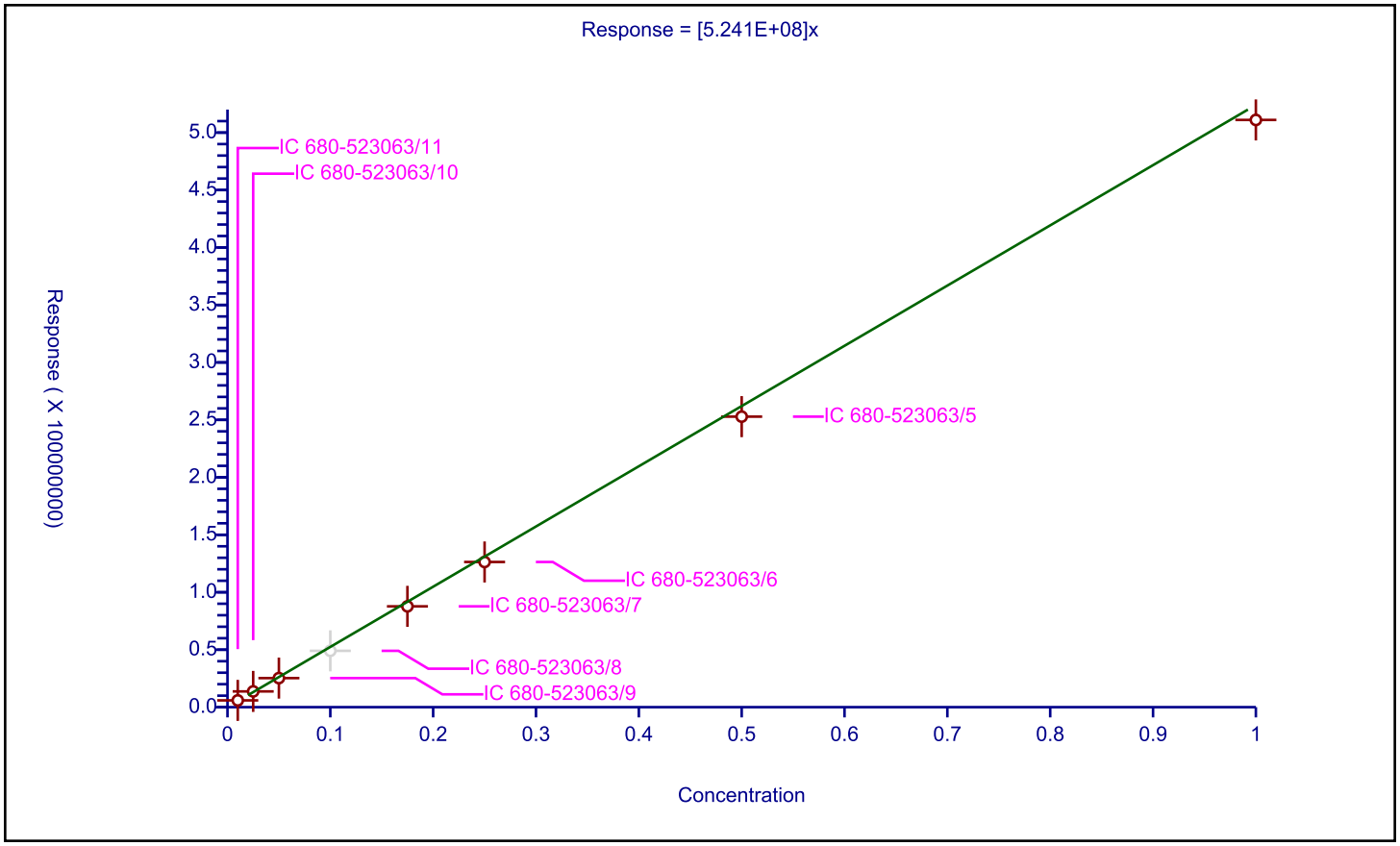
Curve Coefficients

Intercept:	0
Slope:	5.241E+08

Error Coefficients

Standard Error:	7010000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	5906230.0			590623000.0	Y
2	IC 680-523063/10	0.025	13718735.0			548749400.0	Y
3	IC 680-523063/9	0.05	25290814.0			505816280.0	Y
4	IC 680-523063/8	0.1	49026258.0			490262580.0	N
5	IC 680-523063/7	0.175	87735176.0			501343862.857143	Y
6	IC 680-523063/6	0.25	126339938.0			505359752.0	Y
7	IC 680-523063/5	0.5	252815070.0			505630140.0	Y
8	IC 680-523063/4	1.0	511012321.0			511012321.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

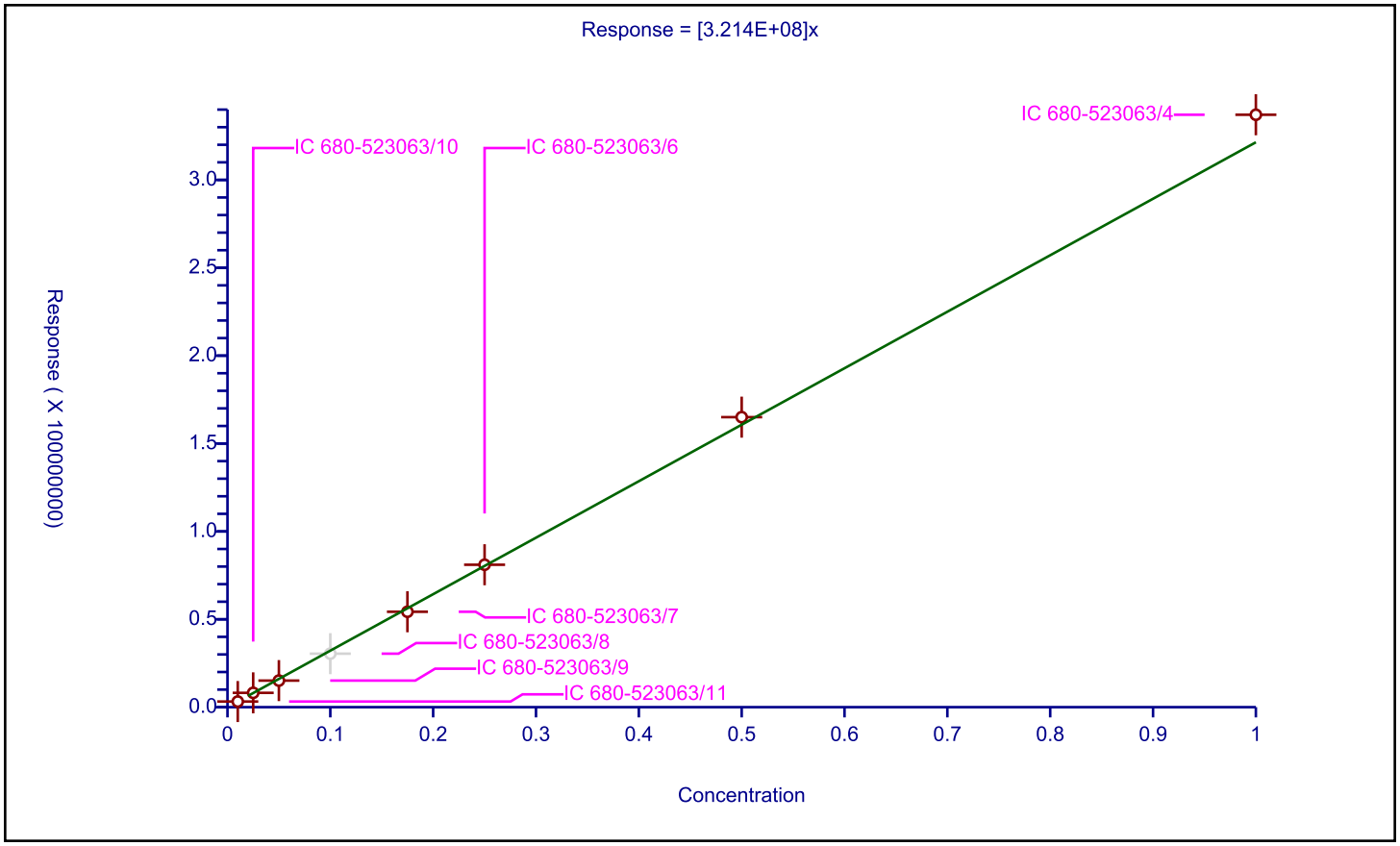
Curve Coefficients

Intercept:	0
Slope:	3.214E+08

Error Coefficients

Standard Error:	6690000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	3202229.0			320222900.0	Y
2	IC 680-523063/10	0.025	8148129.0			325925160.0	Y
3	IC 680-523063/9	0.05	15117918.0			302358360.0	Y
4	IC 680-523063/8	0.1	30442227.0			304422270.0	N
5	IC 680-523063/7	0.175	54279812.0			310170354.285714	Y
6	IC 680-523063/6	0.25	81038461.0			324153844.0	Y
7	IC 680-523063/5	0.5	165004902.0			330009804.0	Y
8	IC 680-523063/4	1.0	337068861.0			337068861.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

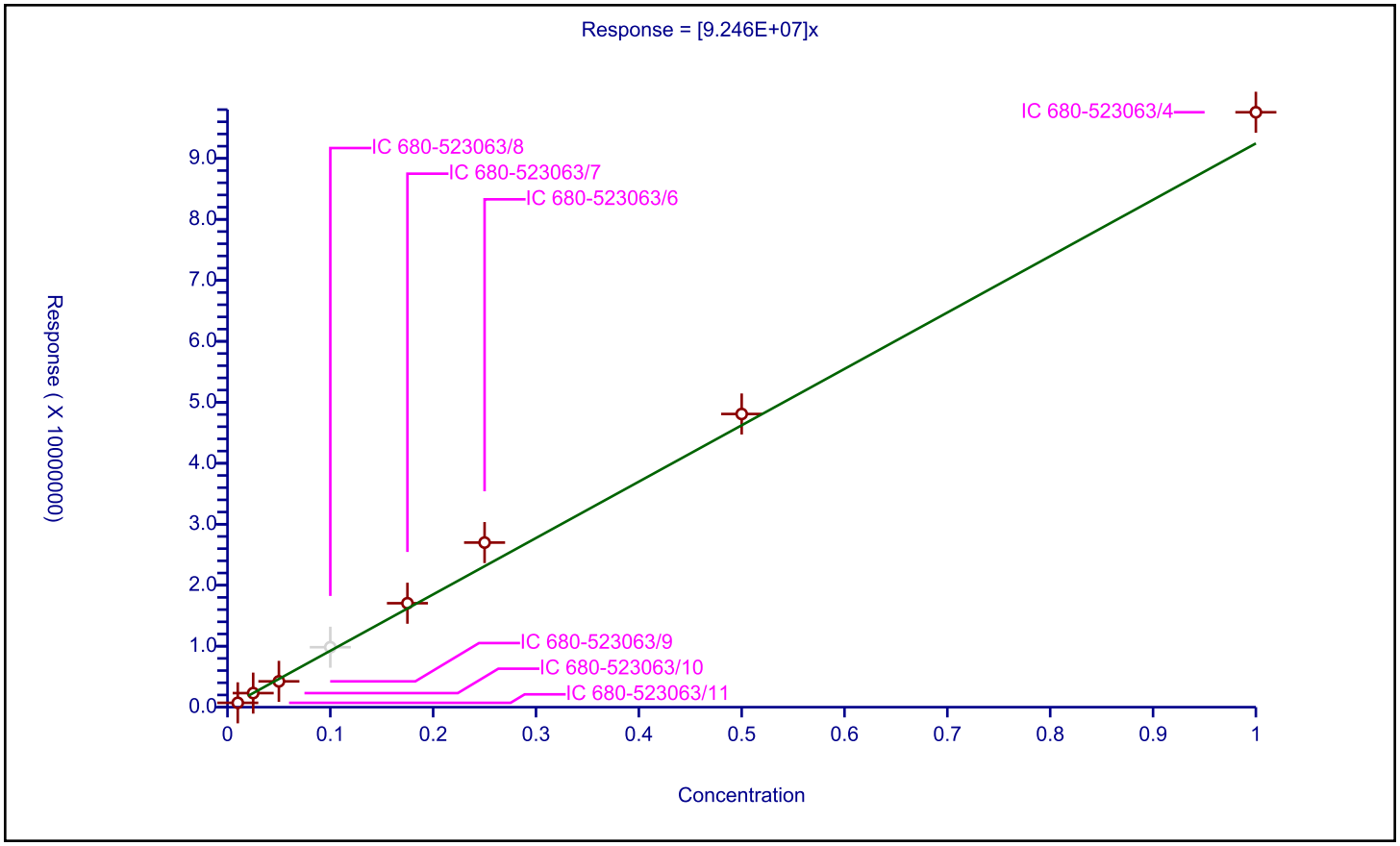
Curve Coefficients

Intercept:	0
Slope:	9.246E+07

Error Coefficients

Standard Error:	2750000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	711986.0			71198600.0	Y
2	IC 680-523063/10	0.025	2307008.0			92280320.0	Y
3	IC 680-523063/9	0.05	4230904.0			84618080.0	Y
4	IC 680-523063/8	0.1	9830837.0			98308370.0	N
5	IC 680-523063/7	0.175	17047628.0			97415017.142857	Y
6	IC 680-523063/6	0.25	26992258.0			107969032.0	Y
7	IC 680-523063/5	0.5	48081748.0			96163496.0	Y
8	IC 680-523063/4	1.0	97562965.0			97562965.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

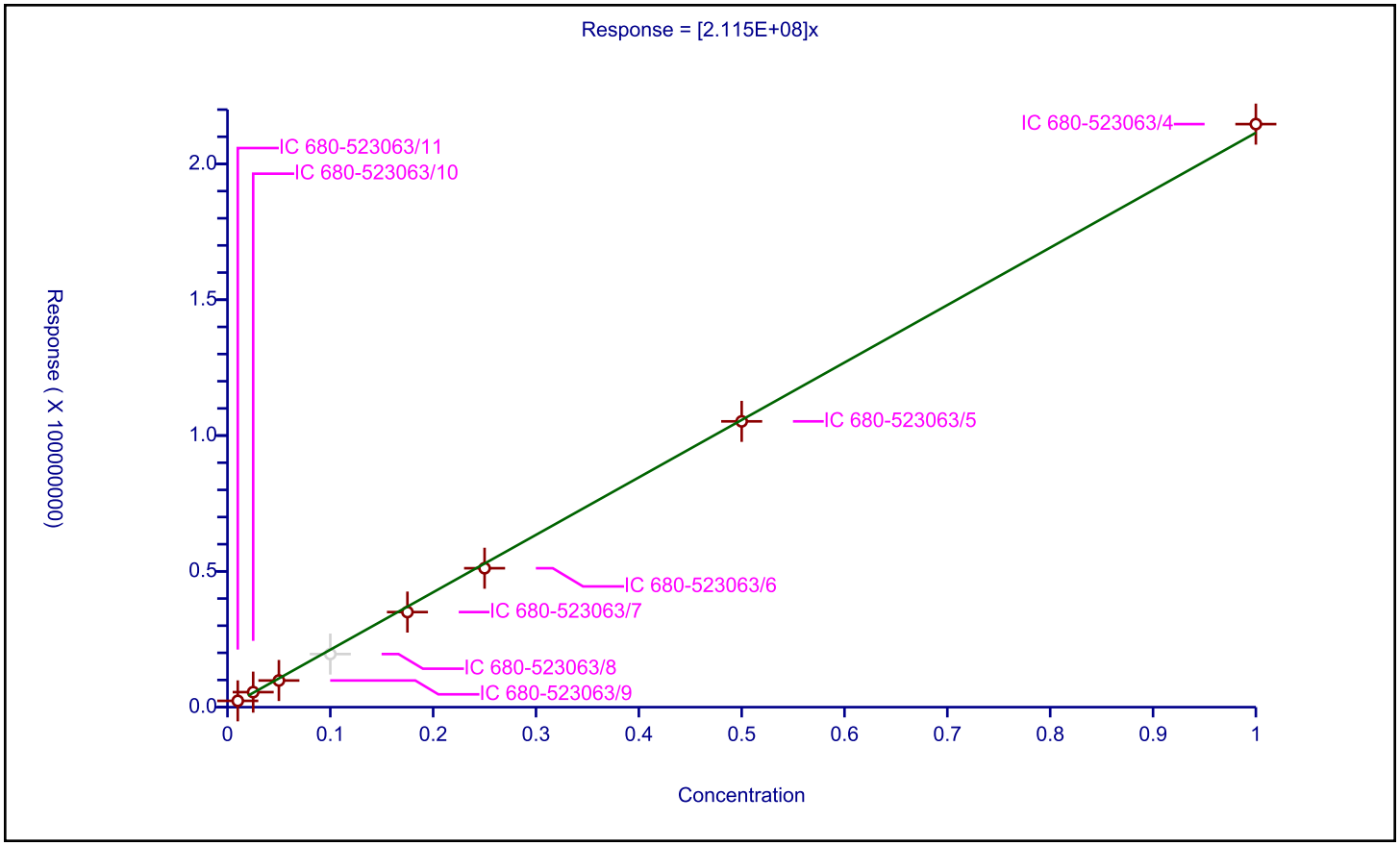
Curve Coefficients

Intercept:	0
Slope:	2.115E+08

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2325909.0			232590900.0	Y
2	IC 680-523063/10	0.025	5538443.0			221537720.0	Y
3	IC 680-523063/9	0.05	9821711.0			196434220.0	Y
4	IC 680-523063/8	0.1	19553071.0			195530710.0	N
5	IC 680-523063/7	0.175	35013881.0			200079320.0	Y
6	IC 680-523063/6	0.25	51149844.0			204599376.0	Y
7	IC 680-523063/5	0.5	105220295.0			210440590.0	Y
8	IC 680-523063/4	1.0	214663766.0			214663766.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

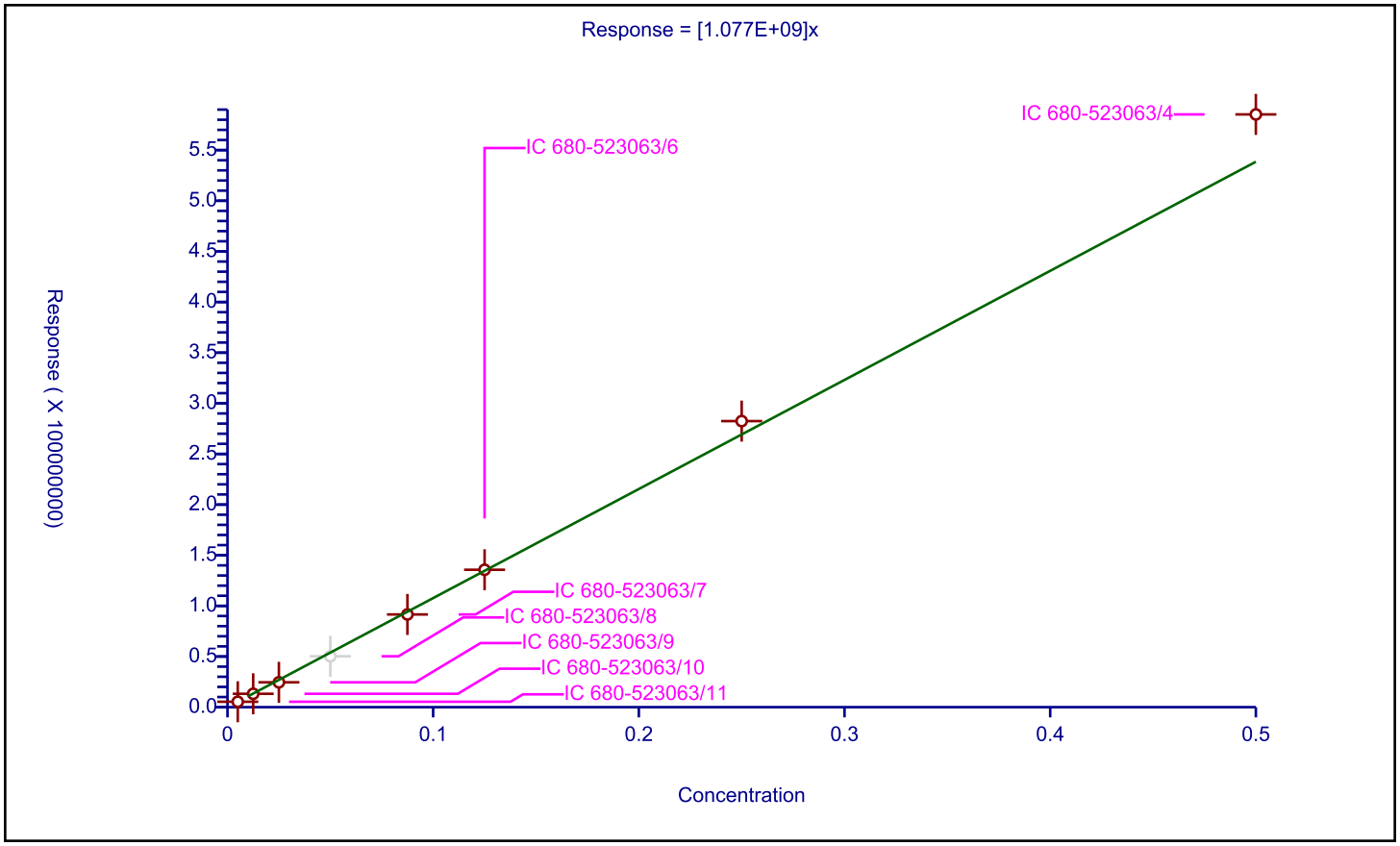
Curve Coefficients

Intercept:	0
Slope:	1.077E+09

Error Coefficients

Standard Error:	19900000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.005	5346345.0			1069269000.0	Y
2	IC 680-523063/10	0.0125	13200023.0			1056001840.0	Y
3	IC 680-523063/9	0.025	24549090.0			981963600.0	Y
4	IC 680-523063/8	0.05	50221281.0			1004425620.0	N
5	IC 680-523063/7	0.0875	91550778.0			1046294605.71429	Y
6	IC 680-523063/6	0.125	135663470.0			1085307760.0	Y
7	IC 680-523063/5	0.25	282435535.0			1129742140.0	Y
8	IC 680-523063/4	0.5	585243873.0			1170487746.0	Y



Calibration / MCPP

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

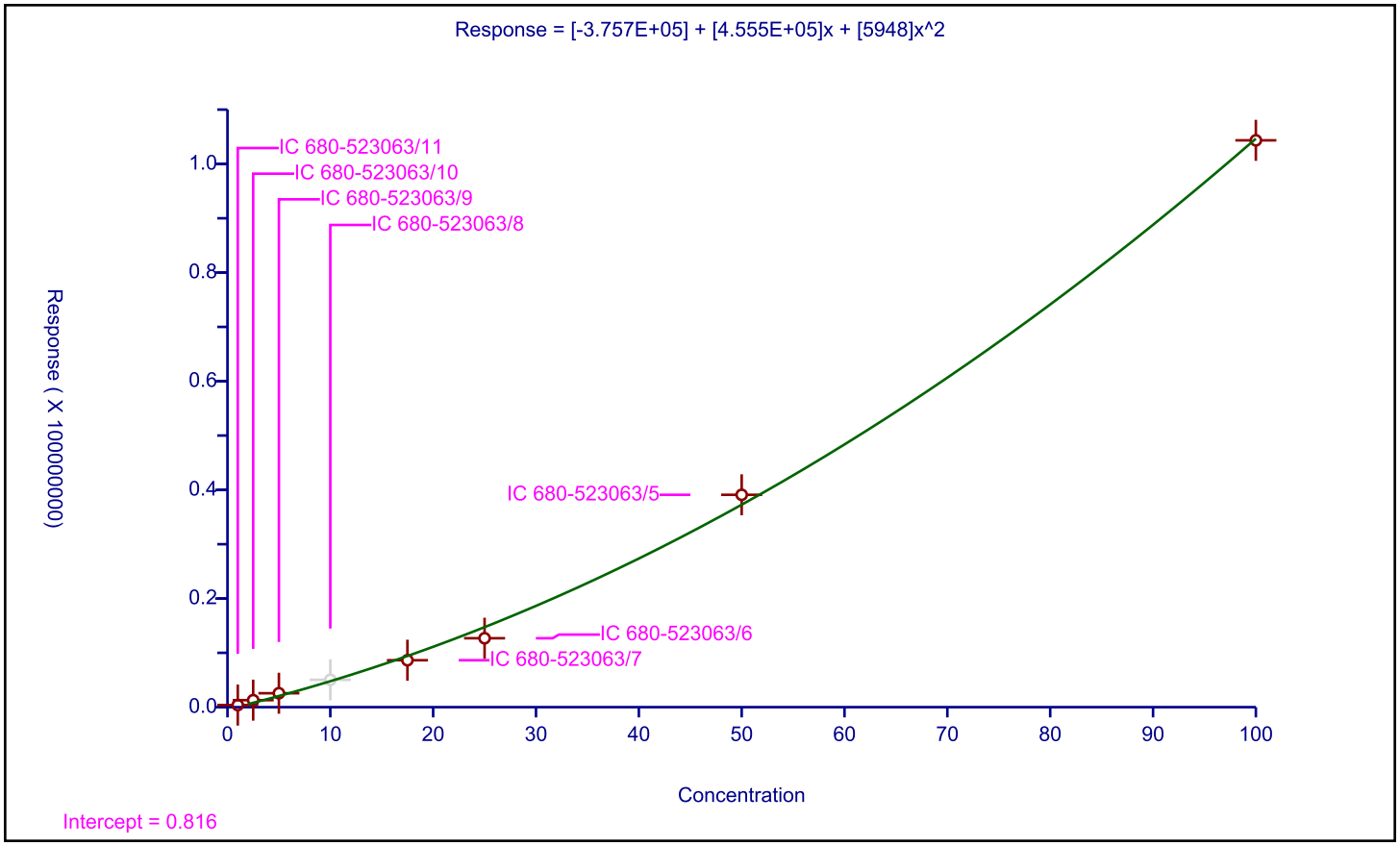
Curve Coefficients

Intercept:	-3.757E+05
Slope:	4.555E+05
Second Order:	5948

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	39.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	383358.0			383358.0	Y
2	IC 680-523063/10	2.5	1288891.0			515556.4	Y
3	IC 680-523063/9	5.0	2565927.0			513185.4	Y
4	IC 680-523063/8	10.0	5032337.0			503233.7	N
5	IC 680-523063/7	17.5	8640069.0			493718.228571	Y
6	IC 680-523063/6	25.0	12687646.0			507505.84	Y
7	IC 680-523063/5	50.0	39090261.0			781805.22	Y
8	IC 680-523063/4	100.0	104343971.0			1043439.71	Y



Calibration / MCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

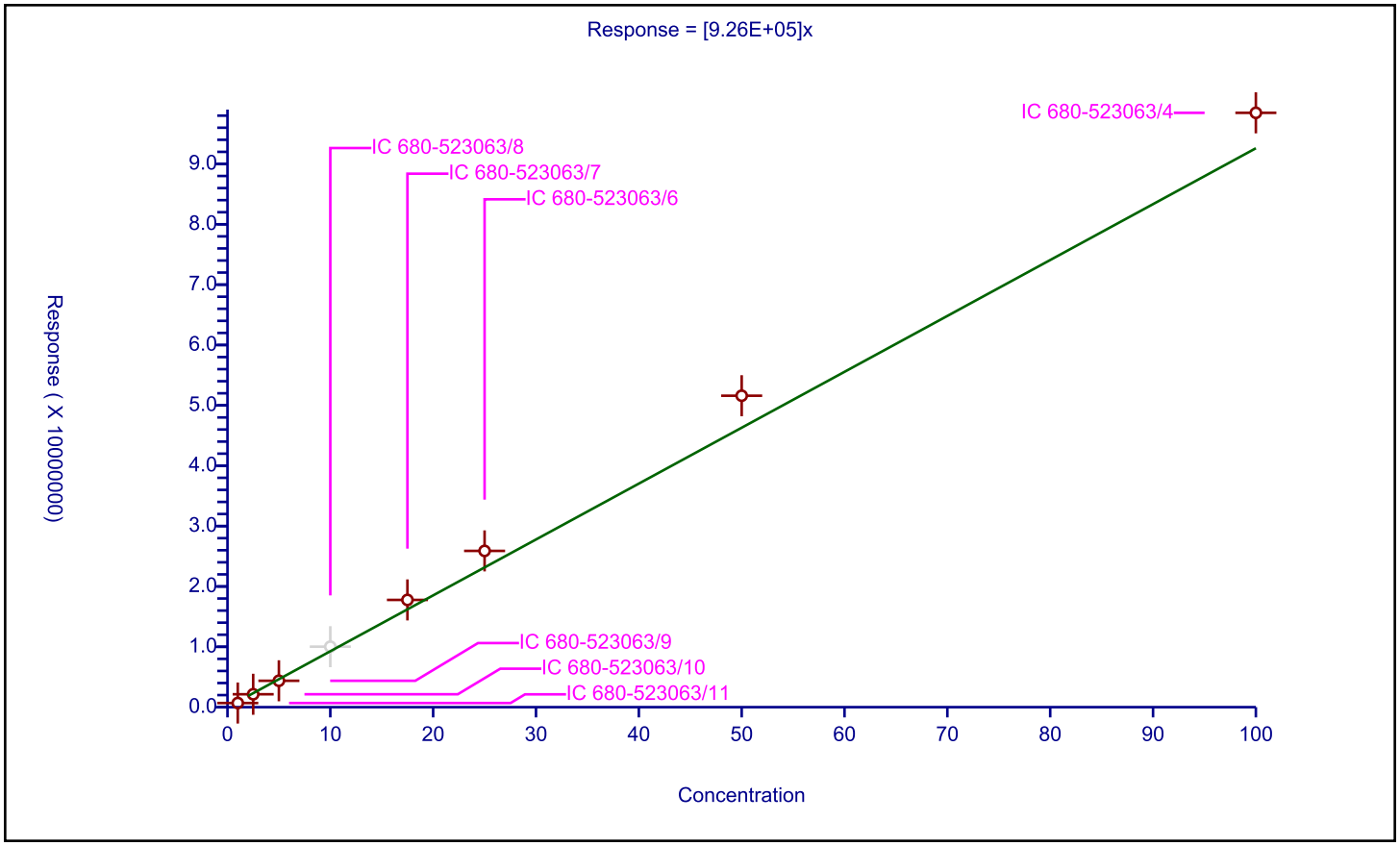
Curve Coefficients

Intercept:	0
Slope:	9.26E+05

Error Coefficients

Standard Error:	3480000
Relative Standard Error:	14.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	684536.0			684536.0	Y
2	IC 680-523063/10	2.5	2137688.0			855075.2	Y
3	IC 680-523063/9	5.0	4373482.0			874696.4	Y
4	IC 680-523063/8	10.0	10021981.0			1002198.1	N
5	IC 680-523063/7	17.5	17766771.0			1015244.057143	Y
6	IC 680-523063/6	25.0	25890792.0			1035631.68	Y
7	IC 680-523063/5	50.0	51596040.0			1031920.8	Y
8	IC 680-523063/4	100.0	98467290.0			984672.9	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

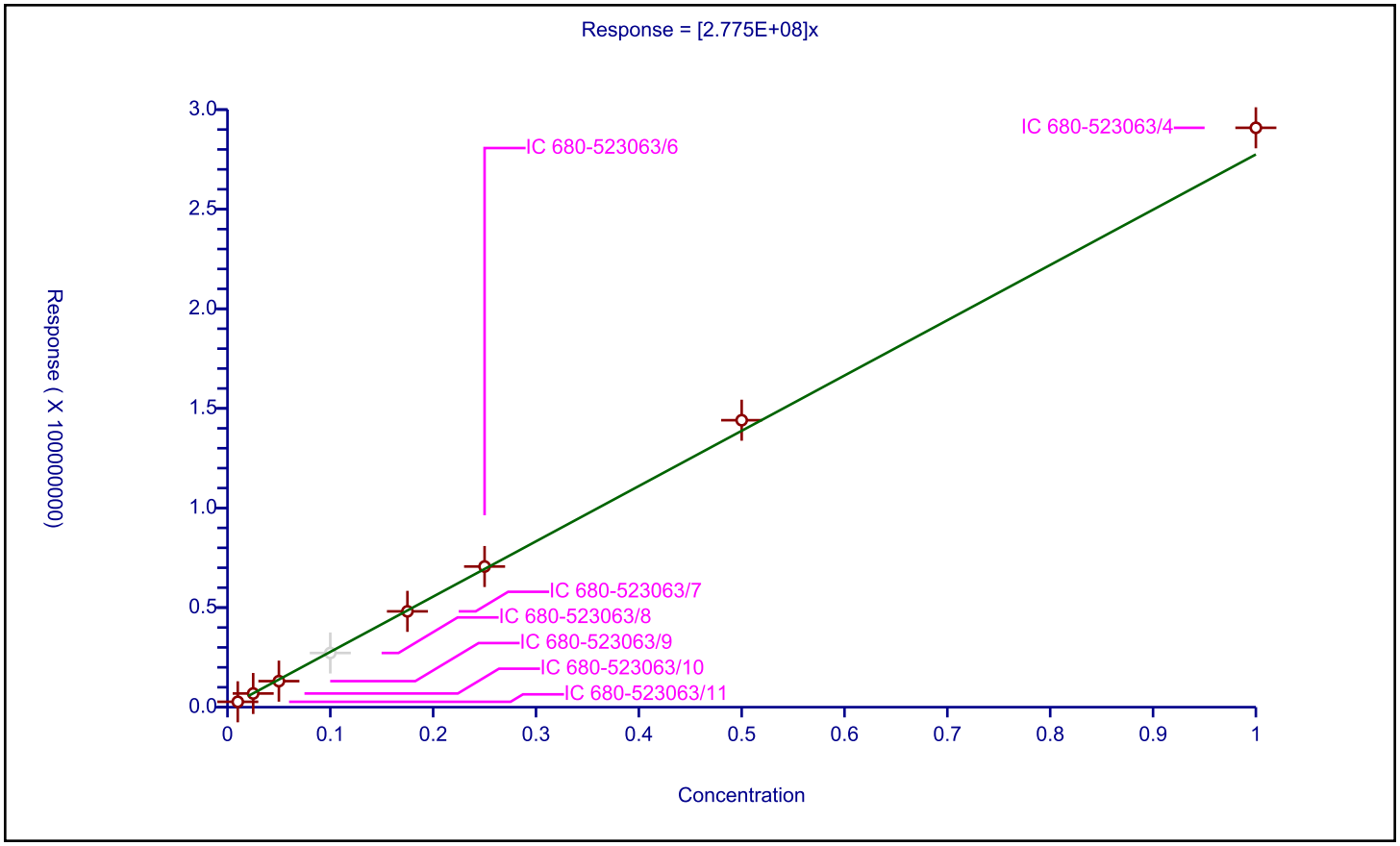
Curve Coefficients

Intercept:	0
Slope:	2.775E+08

Error Coefficients

Standard Error:	5910000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2699462.0			269946200.0	Y
2	IC 680-523063/10	0.025	6871862.0			274874480.0	Y
3	IC 680-523063/9	0.05	13064380.0			261287600.0	Y
4	IC 680-523063/8	0.1	27204673.0			272046730.0	N
5	IC 680-523063/7	0.175	48109296.0			274910262.857143	Y
6	IC 680-523063/6	0.25	70616500.0			282466000.0	Y
7	IC 680-523063/5	0.5	144063420.0			288126840.0	Y
8	IC 680-523063/4	1.0	290874356.0			290874356.0	Y



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

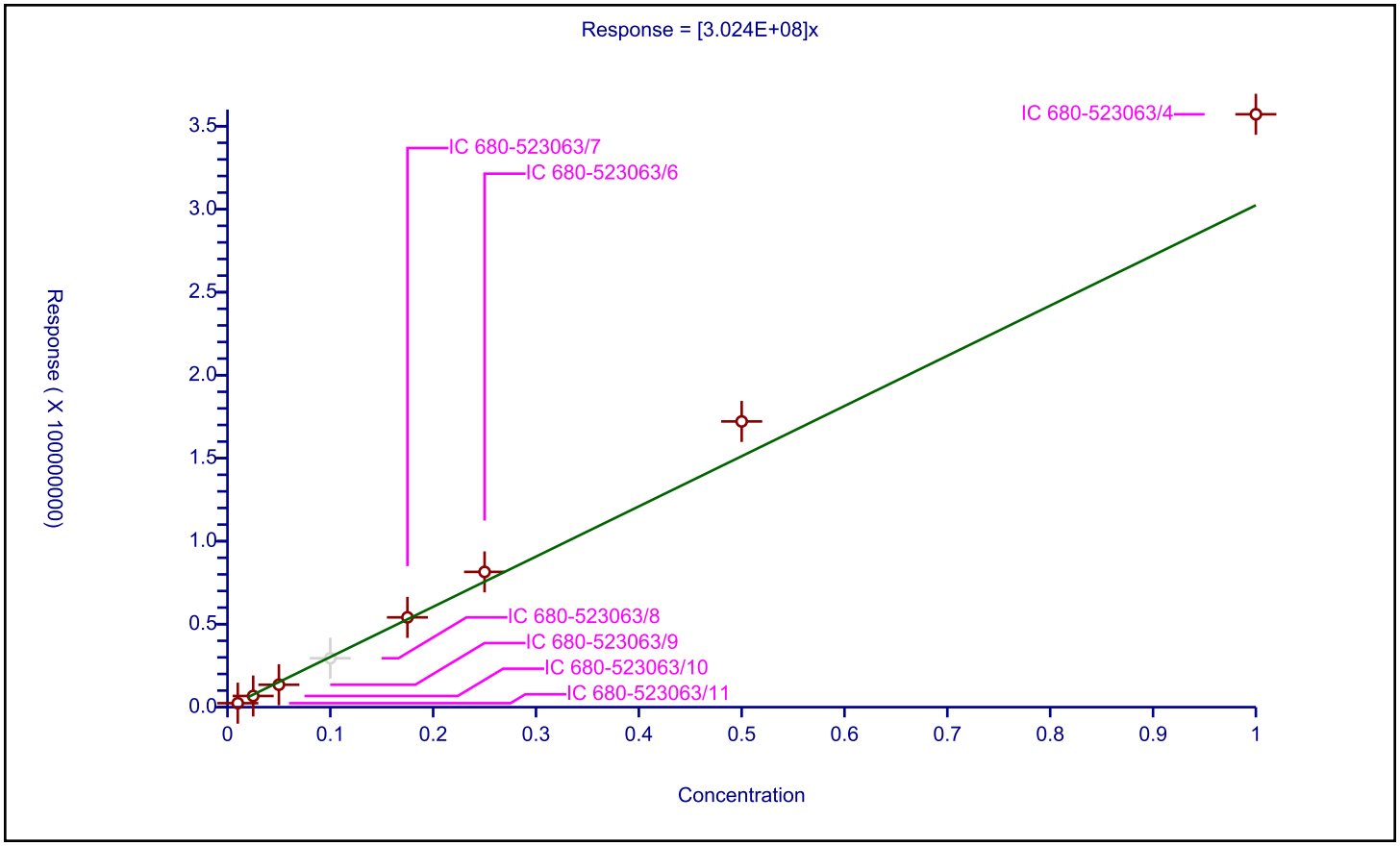
Curve Coefficients

Intercept:	0
Slope:	3.024E+08

Error Coefficients

Standard Error:	24100000
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2400934.0			240093400.0	Y
2	IC 680-523063/10	0.025	6740238.0			269609520.0	Y
3	IC 680-523063/9	0.05	13528651.0			270573020.0	Y
4	IC 680-523063/8	0.1	29475053.0			294750530.0	N
5	IC 680-523063/7	0.175	54093373.0			309104988.571429	Y
6	IC 680-523063/6	0.25	81489809.0			325959236.0	Y
7	IC 680-523063/5	0.5	172138047.0			344276094.0	Y
8	IC 680-523063/4	1.0	357181097.0			357181097.0	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

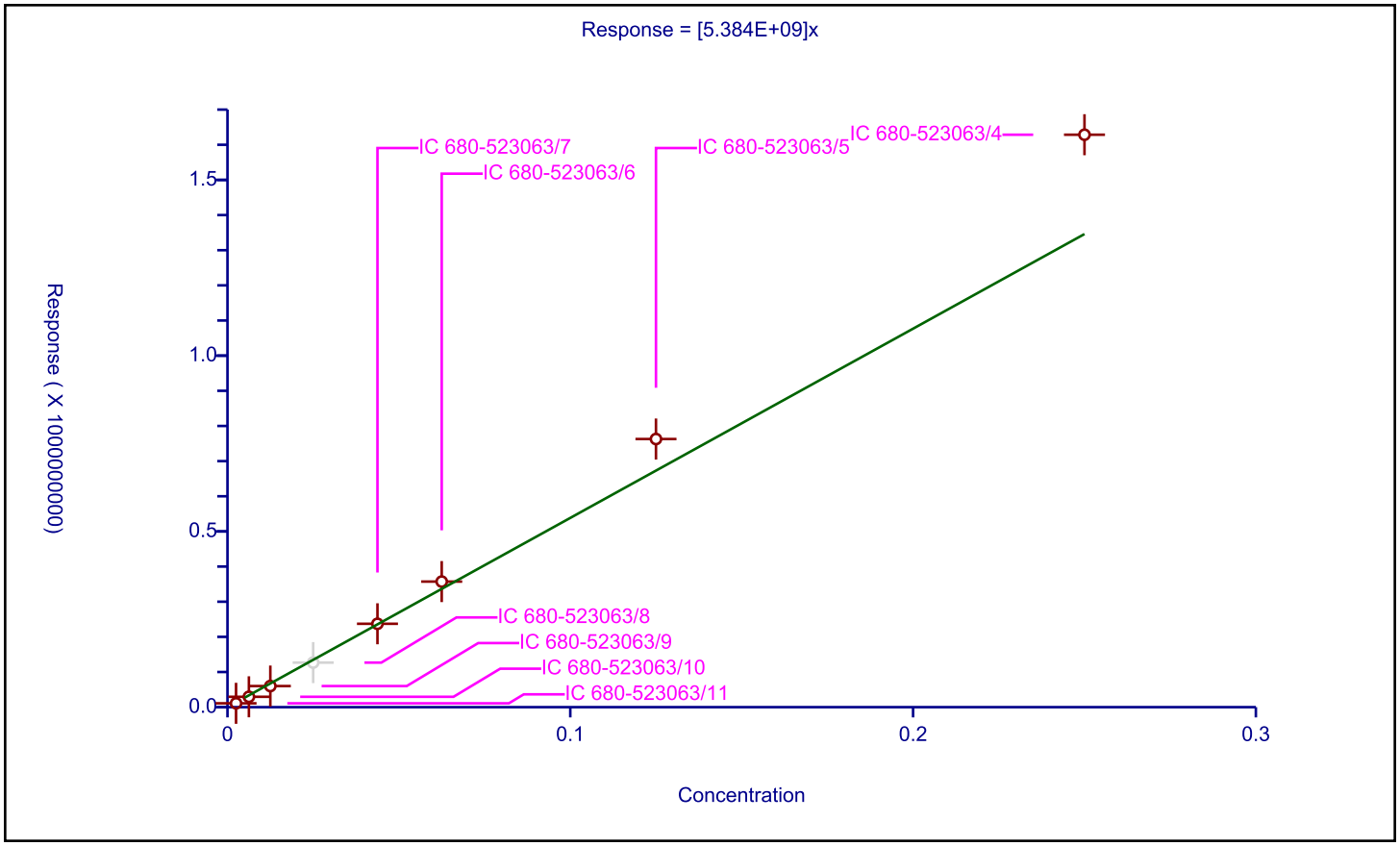
Curve Coefficients

Intercept:	0
Slope:	5.384E+09

Error Coefficients

Standard Error:	121000000
Relative Standard Error:	14.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	11008502.0			4403400800.0	Y
2	IC 680-523063/10	0.00625	29521455.0			4723432800.0	Y
3	IC 680-523063/9	0.0125	60060646.0			4804851680.0	Y
4	IC 680-523063/8	0.025	126808590.0			5072343600.0	N
5	IC 680-523063/7	0.04375	237204468.0			5421816411.42857	Y
6	IC 680-523063/6	0.0625	357293439.0			5716695024.0	Y
7	IC 680-523063/5	0.125	762859467.0			6102875736.0	Y
8	IC 680-523063/4	0.25	1628549099.0			6514196396.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

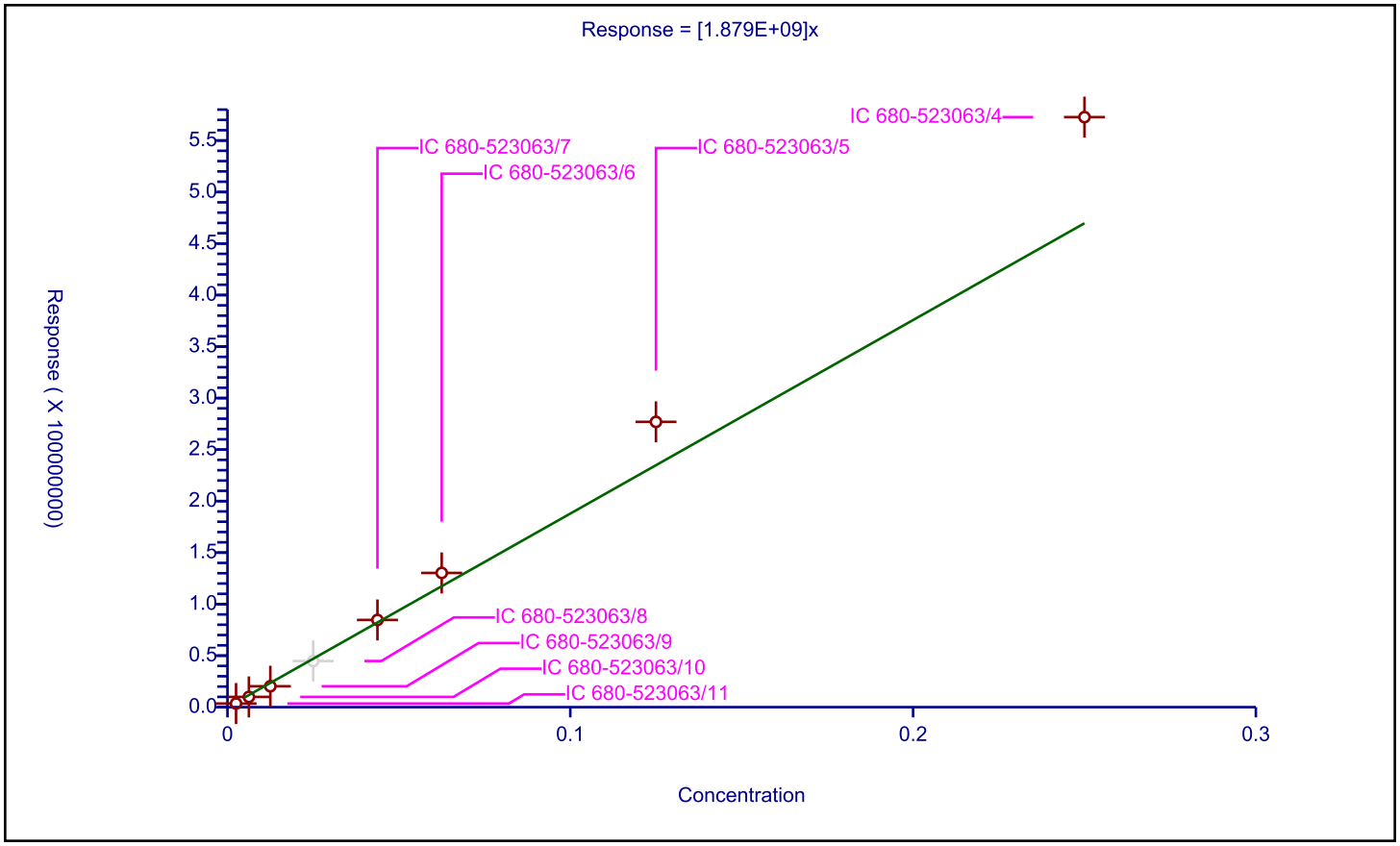
Curve Coefficients

Intercept:	0
Slope:	1.879E+09

Error Coefficients

Standard Error:	45800000
Relative Standard Error:	18.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	3531202.0			1412480800.0	Y
2	IC 680-523063/10	0.00625	9932955.0			1589272800.0	Y
3	IC 680-523063/9	0.0125	20302486.0			1624198880.0	Y
4	IC 680-523063/8	0.025	44774730.0			1790989200.0	N
5	IC 680-523063/7	0.04375	84634924.0			1934512548.57143	Y
6	IC 680-523063/6	0.0625	130284362.0			2084549792.0	Y
7	IC 680-523063/5	0.125	276913650.0			2215309200.0	Y
8	IC 680-523063/4	0.25	572693944.0			2290775776.0	Y



Calibration / Chloramben

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

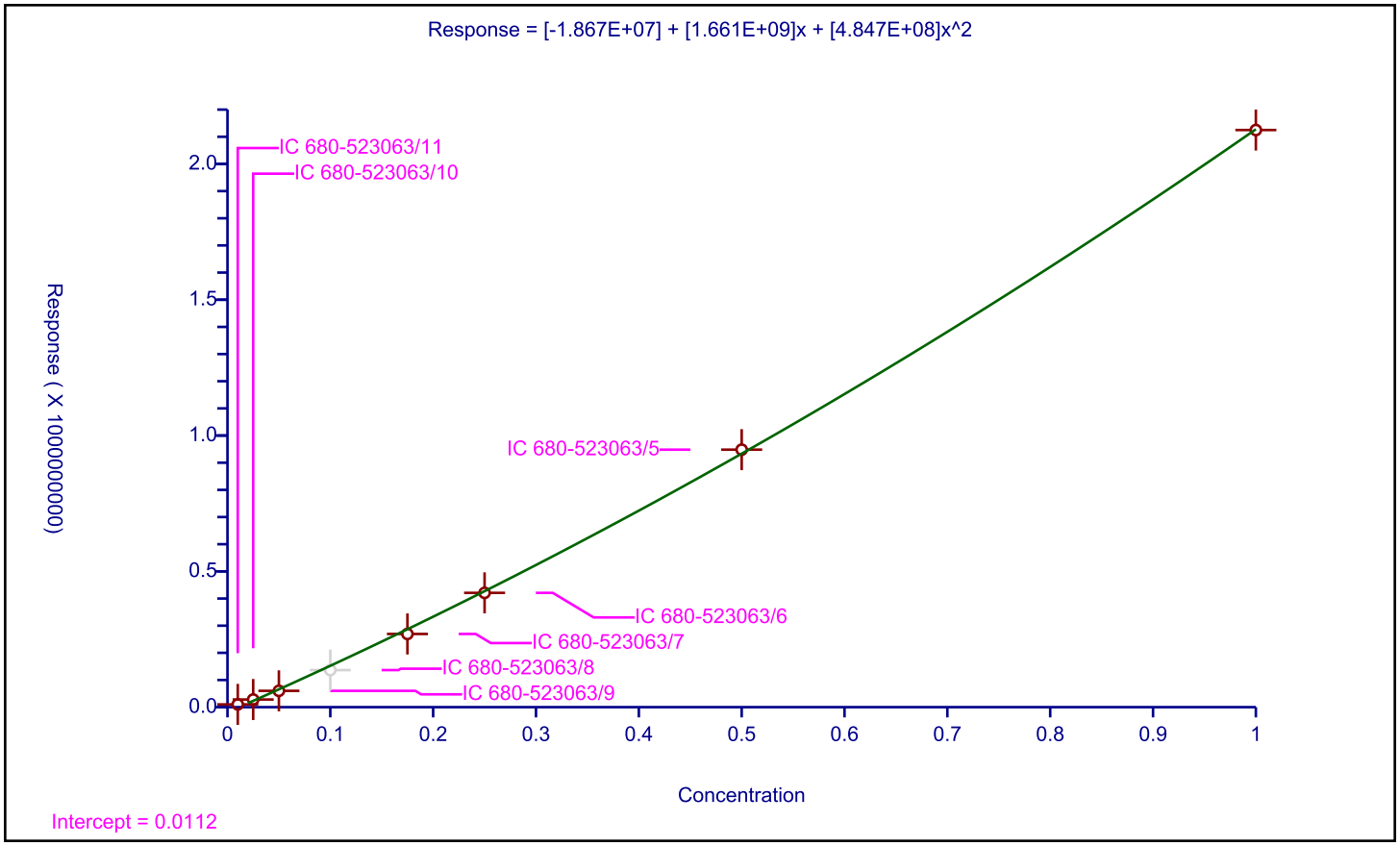
Curve Coefficients

Intercept:	-1.867E+07
Slope:	1.661E+09
Second Order:	4.847E+08

Error Coefficients

Standard Error:	13900000
Relative Standard Error:	37.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	10146304.0			1014630400.0	Y
2	IC 680-523063/10	0.025	28147981.0			1125919240.0	Y
3	IC 680-523063/9	0.05	60085684.0			1201713680.0	Y
4	IC 680-523063/8	0.1	136550994.0			1365509940.0	N
5	IC 680-523063/7	0.175	269520100.0			1540114857.14286	Y
6	IC 680-523063/6	0.25	420812351.0			1683249404.0	Y
7	IC 680-523063/5	0.5	948055347.0			1896110694.0	Y
8	IC 680-523063/4	1.0	2124806109.0			2124806109.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

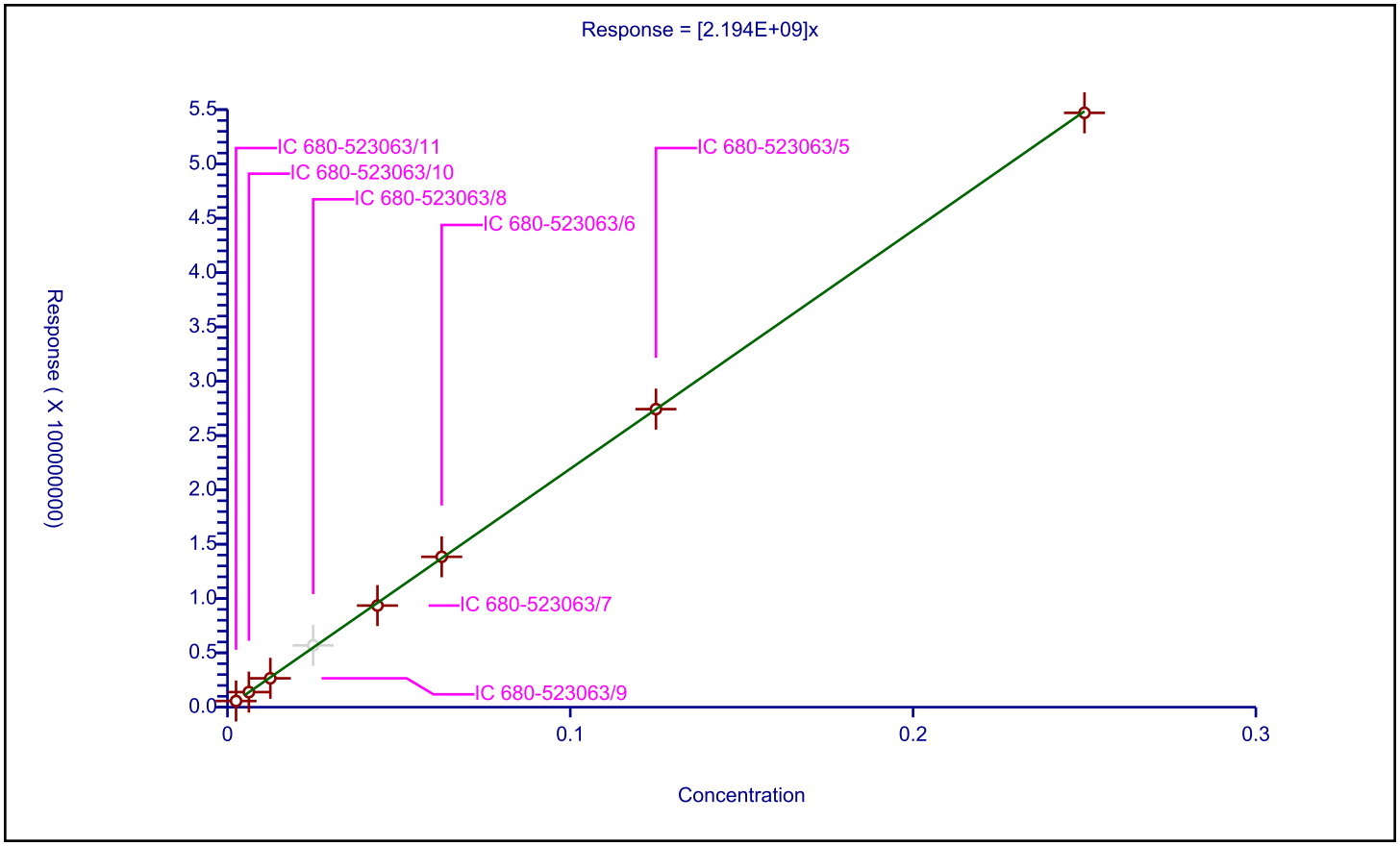
Curve Coefficients

Intercept:	0
Slope:	2.194E+09

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	5683855.0			2273542000.0	Y
2	IC 680-523063/10	0.00625	13893399.0			2222943840.0	Y
3	IC 680-523063/9	0.0125	26566988.0			2125359040.0	Y
4	IC 680-523063/8	0.025	56867356.0			2274694240.0	N
5	IC 680-523063/7	0.04375	93534318.0			2137927268.57143	Y
6	IC 680-523063/6	0.0625	138404340.0			2214469440.0	Y
7	IC 680-523063/5	0.125	274321777.0			2194574216.0	Y
8	IC 680-523063/4	0.25	547016891.0			2188067564.0	Y



Calibration / 2,4-DB

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

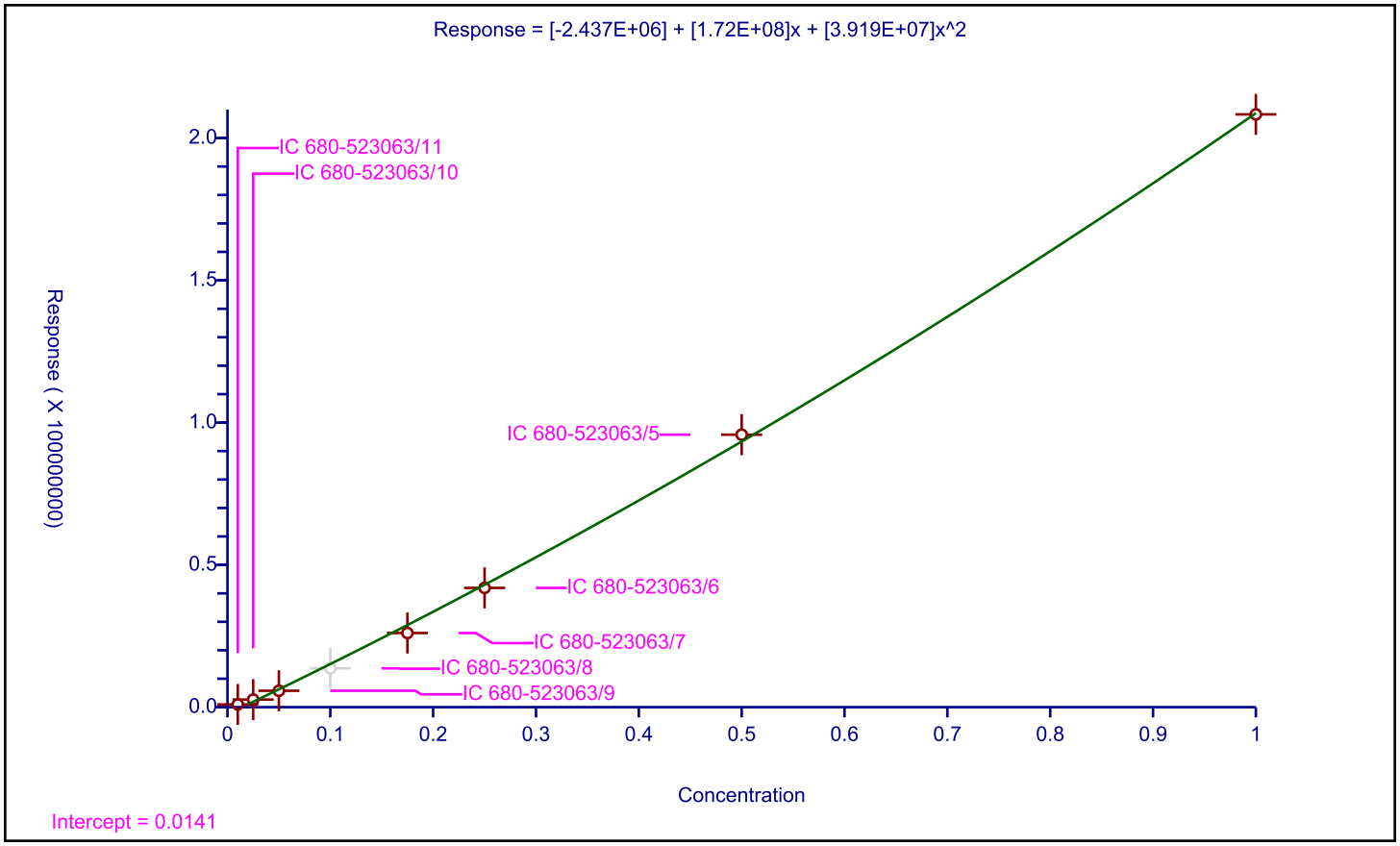
Curve Coefficients

Intercept:	-2.437E+06
Slope:	1.72E+08
Second Order:	3.919E+07

Error Coefficients

Standard Error:	2160000
Relative Standard Error:	49.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	957156.0			95715600.0	Y
2	IC 680-523063/10	0.025	2666490.0			106659600.0	Y
3	IC 680-523063/9	0.05	5762851.0			115257020.0	Y
4	IC 680-523063/8	0.1	13655211.0			136552110.0	N
5	IC 680-523063/7	0.175	26059778.0			148913017.142857	Y
6	IC 680-523063/6	0.25	41914777.0			167659108.0	Y
7	IC 680-523063/5	0.5	95758632.0			191517264.0	Y
8	IC 680-523063/4	1.0	208315295.0			208315295.0	Y



Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

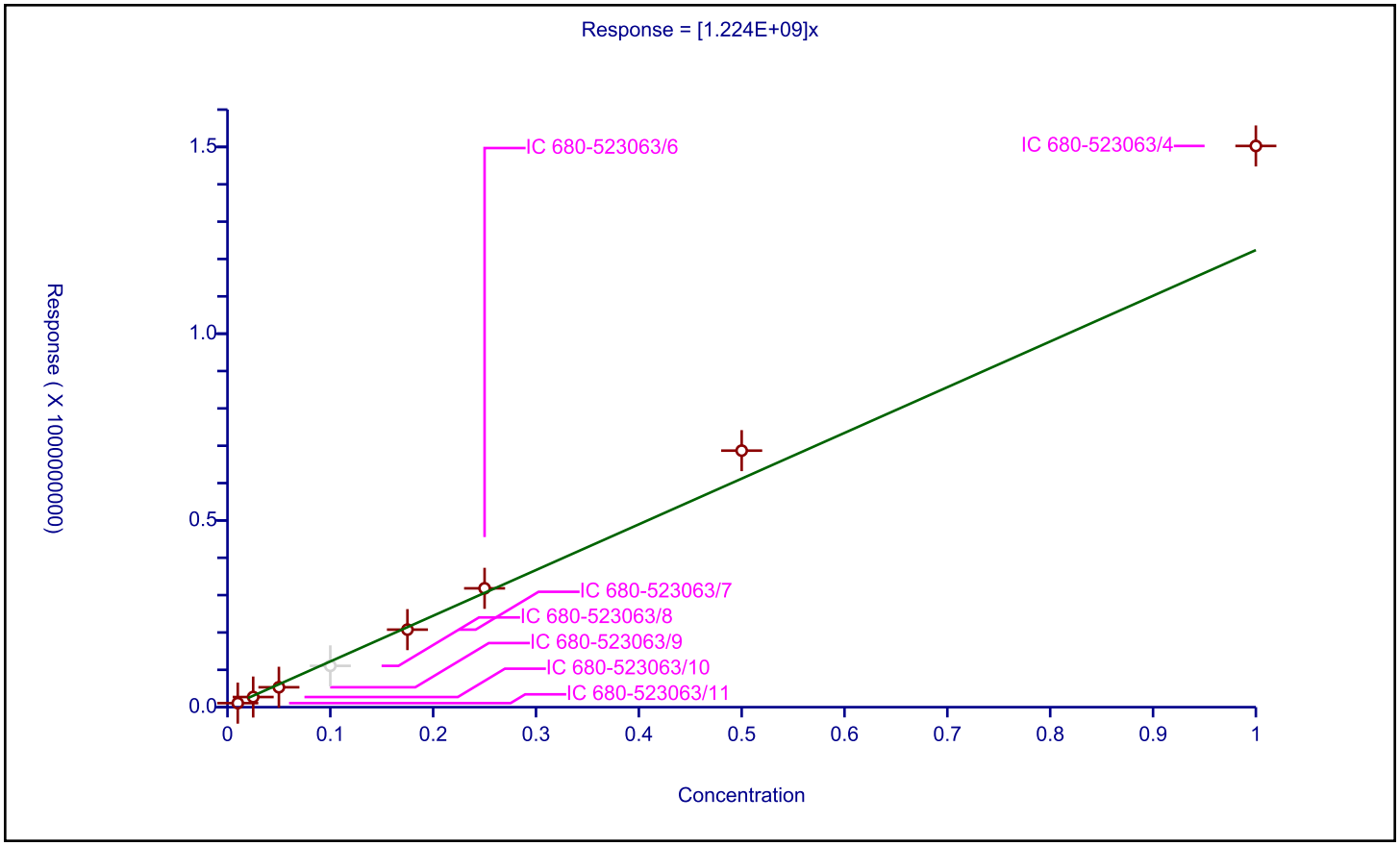
Curve Coefficients

Intercept:	0
Slope:	1.224E+09

Error Coefficients

Standard Error:	118000000
Relative Standard Error:	13.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	10802376.0			1080237600.0	Y
2	IC 680-523063/10	0.025	27141219.0			1085648760.0	Y
3	IC 680-523063/9	0.05	53295649.0			1065912980.0	Y
4	IC 680-523063/8	0.1	110631354.0			1106313540.0	N
5	IC 680-523063/7	0.175	207576561.0			1186151777.14286	Y
6	IC 680-523063/6	0.25	318205530.0			1272822120.0	Y
7	IC 680-523063/5	0.5	686899035.0			1373798070.0	Y
8	IC 680-523063/4	1.0	1502700567.0			1502700567.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

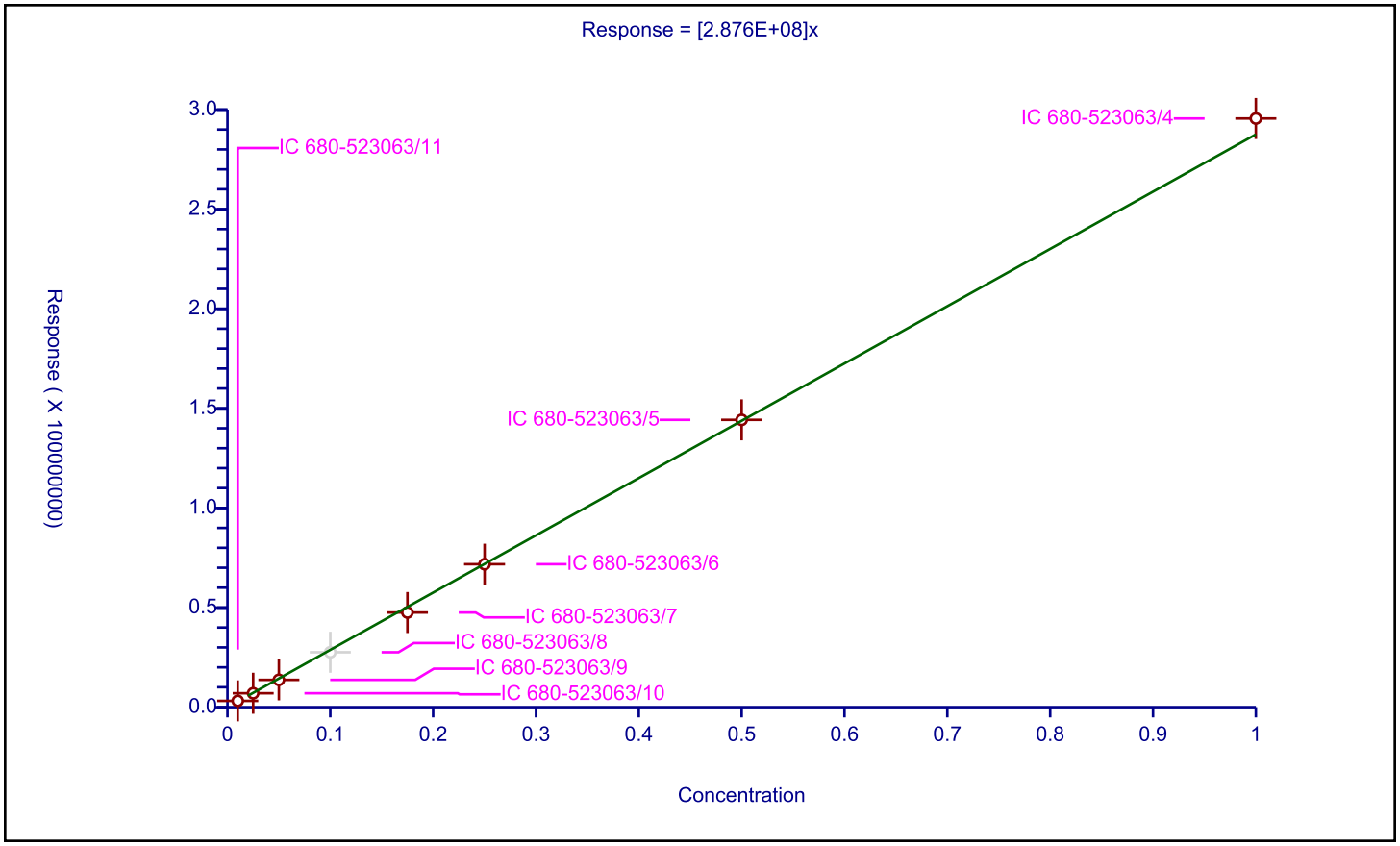
Curve Coefficients

Intercept:	0
Slope:	2.876E+08

Error Coefficients

Standard Error:	3480000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	3164677.0			316467700.0	Y
2	IC 680-523063/10	0.025	6986266.0			279450640.0	Y
3	IC 680-523063/9	0.05	13719455.0			274389100.0	Y
4	IC 680-523063/8	0.1	27567147.0			275671470.0	N
5	IC 680-523063/7	0.175	47511232.0			271492754.285714	Y
6	IC 680-523063/6	0.25	71761268.0			287045072.0	Y
7	IC 680-523063/5	0.5	144238238.0			288476476.0	Y
8	IC 680-523063/4	1.0	295542031.0			295542031.0	Y



Calibration / Picloram

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

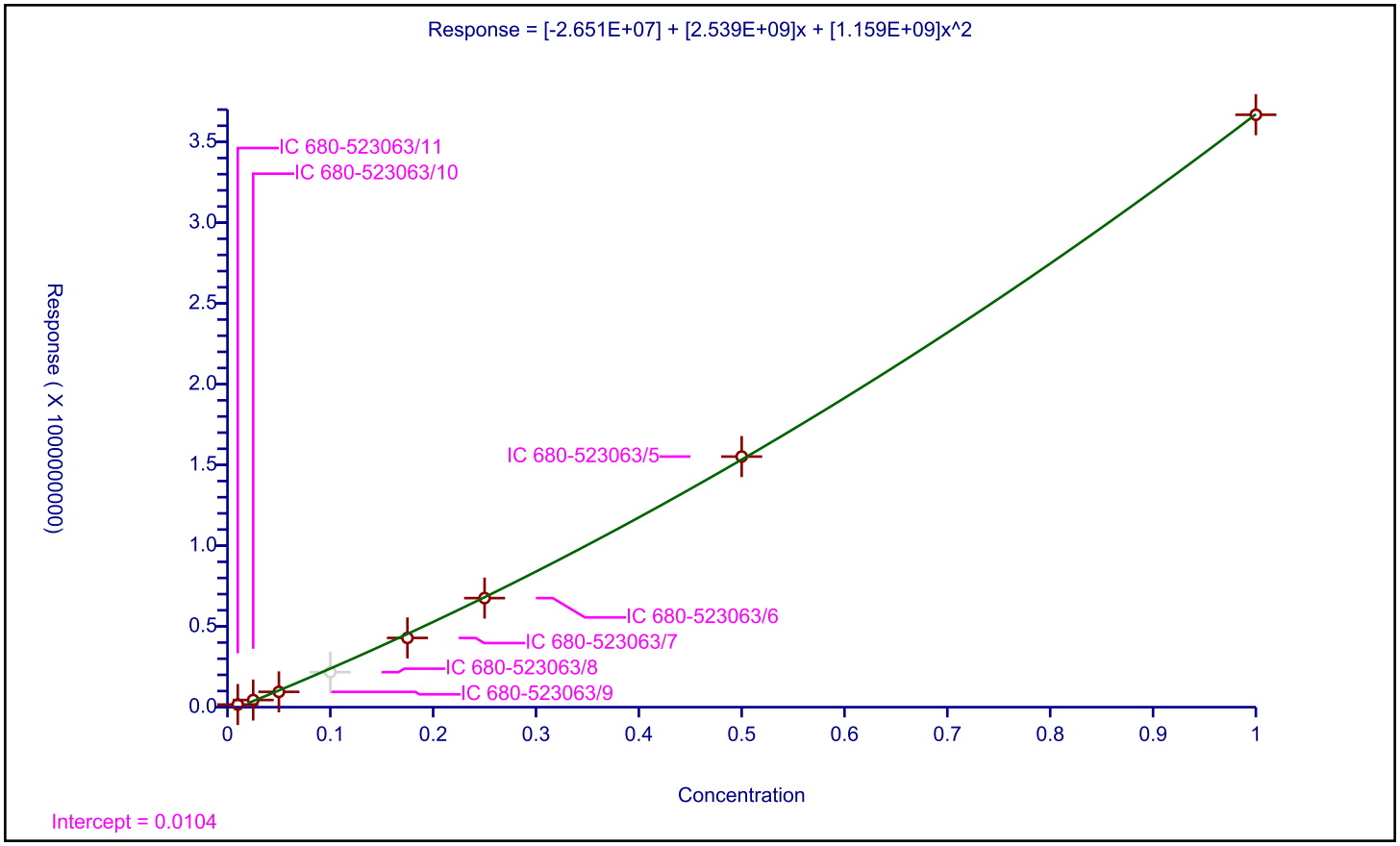
Curve Coefficients

Intercept:	-2.651E+07
Slope:	2.539E+09
Second Order:	1.159E+09

Error Coefficients

Standard Error:	18800000
Relative Standard Error:	34.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	16249913.0			1624991300.0	Y
2	IC 680-523063/10	0.025	44134008.0			1765360320.0	Y
3	IC 680-523063/9	0.05	94759287.0			1895185740.0	Y
4	IC 680-523063/8	0.1	216808821.0			2168088210.0	N
5	IC 680-523063/7	0.175	428630902.0			2449319440.0	Y
6	IC 680-523063/6	0.25	675298882.0			2701195528.0	Y
7	IC 680-523063/5	0.5	1551637070.0			3103274140.0	Y
8	IC 680-523063/4	1.0	3668133130.0			3668133130.0	Y



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

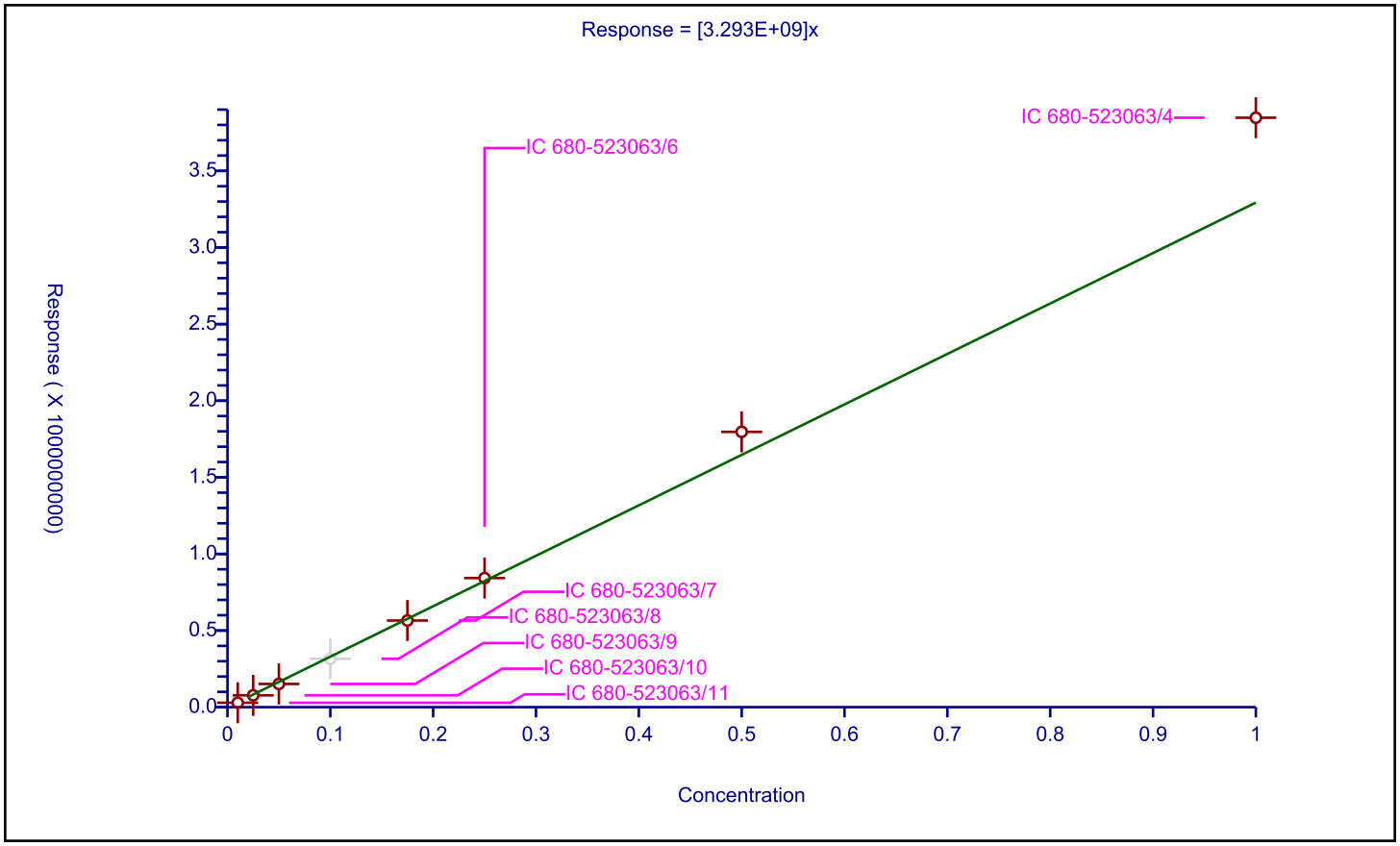
Curve Coefficients

Intercept:	0
Slope:	3.293E+09

Error Coefficients

Standard Error:	235000000
Relative Standard Error:	10.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	28939470.0			2893947000.0	Y
2	IC 680-523063/10	0.025	77163736.0			3086549440.0	Y
3	IC 680-523063/9	0.05	151449071.0			3028981420.0	Y
4	IC 680-523063/8	0.1	315619469.0			3156194690.0	N
5	IC 680-523063/7	0.175	565445884.0			3231119337.14286	Y
6	IC 680-523063/6	0.25	842695237.0			3370780948.0	Y
7	IC 680-523063/5	0.5	1796815722.0			3593631444.0	Y
8	IC 680-523063/4	1.0	3847093339.0			3847093339.0	Y



Calibration / Acifluorfen

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

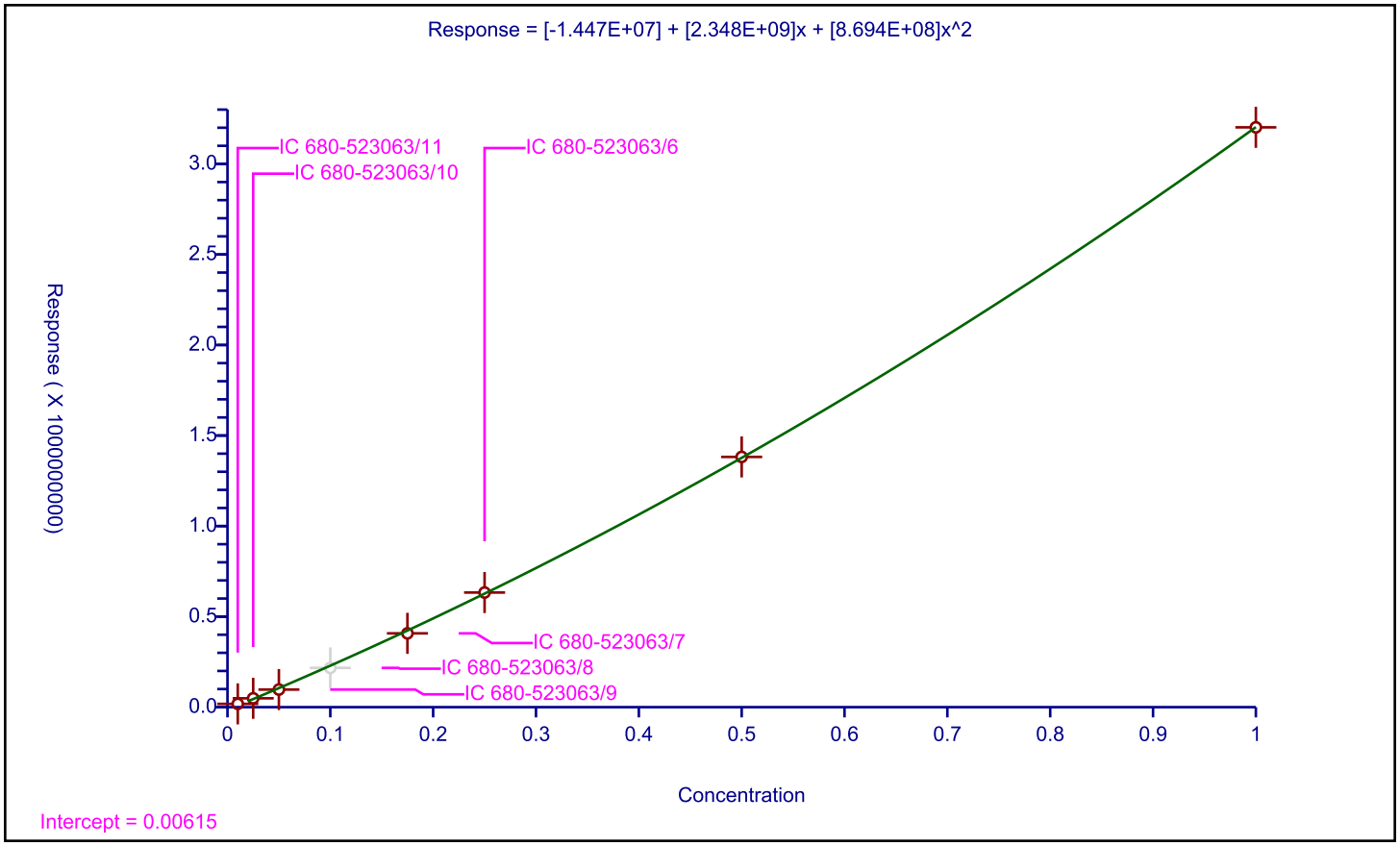
Curve Coefficients

Intercept:	-1.447E+07
Slope:	2.348E+09
Second Order:	8.694E+08

Error Coefficients

Standard Error:	10800000
Relative Standard Error:	19.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	18199991.0			1819999100.0	Y
2	IC 680-523063/10	0.025	48982390.0			1959295600.0	Y
3	IC 680-523063/9	0.05	97225812.0			1944516240.0	Y
4	IC 680-523063/8	0.1	217026310.0			2170263100.0	N
5	IC 680-523063/7	0.175	407675485.0			2329574200.0	Y
6	IC 680-523063/6	0.25	633038479.0			2532153916.0	Y
7	IC 680-523063/5	0.5	1382056162.0			2764112324.0	Y
8	IC 680-523063/4	1.0	3202033523.0			3202033523.0	Y



FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Dalapon	2.633	2.632	2.632	+++++	2.633	2.633	2.634	2.635			2.612 - 2.652	2.633
3,5-Dichlorobenzoic acid	6.119	6.118	6.116	+++++	6.116	6.117	6.116	6.118			6.106 - 6.126	6.117
4-Nitrophenol	6.516	6.511	6.506	+++++	6.504	6.503	6.503	6.503			6.495 - 6.515	6.507
Dicamba	6.911	6.910	6.909	+++++	6.911	6.911	6.911	6.914			6.900 - 6.920	6.911
MCPP	6.956	6.955	6.955	+++++	6.955	6.956	6.957	6.960			6.945 - 6.965	6.956
MCPA	7.156	7.155	7.154	+++++	7.153	7.155	7.157	7.161			7.145 - 7.165	7.156
Dichlorprop	7.299	7.298	7.297	+++++	7.296	7.298	7.298	7.300			7.287 - 7.307	7.298
2,4-D	7.531	7.524	7.520	+++++	7.515	7.516	7.515	7.517			7.507 - 7.527	7.520
Pentachlorophenol	7.713	7.713	7.713	+++++	7.713	7.715	7.716	7.718			7.704 - 7.724	7.714
Silvex (2,4,5-TP)	7.851	7.850	7.846	+++++	7.845	7.846	7.846	7.848			7.836 - 7.856	7.847
2,4,5-T	8.089	8.090	8.086	+++++	8.080	8.079	8.080	8.082			8.073 - 8.093	8.084
Chloramben	8.171	8.167	8.164	+++++	8.159	8.159	8.160	8.161			8.152 - 8.172	8.163
Dinoseb	8.251	8.250	8.248	+++++	8.246	8.248	8.250	+++++			8.238 - 8.258	8.249
2,4-DB	8.312	8.308	8.305	+++++	8.298	8.298	8.297	8.298			8.292 - 8.312	8.302
Bentazon	8.665	8.665	8.663	+++++	8.661	8.661	8.663	8.664			8.652 - 8.672	8.663
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.777	8.776	8.775	+++++	8.776	8.778	8.779	+++++			8.765 - 8.785	8.777
Picloram	9.014	9.011	9.009	+++++	9.005	9.005	9.005	9.011			8.995 - 9.015	9.009
Acifluorfen	9.794	9.795	9.791	+++++	9.791	9.793	9.794	+++++			9.782 - 9.802	9.793
2,4-Dichlorophenylacetic acid (Surr)	6.831	6.830	6.829	+++++	6.829	6.829	6.830	6.831			6.819 - 6.839	6.830

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Dalapon	1798315000 1517639326	1597318040 1581217208	1427568040 1635156782	+++++ 1725206867	Ave		1611774466				7.7		20.0			
3,5-Dichlorobenzoic acid	1837751300 1719390389	1760637040 1795246728	1650502760 1861053578	+++++ 1954171685	Ave		1796964783				5.5		20.0			
4-Nitrophenol	250653100 298246994	296649000 310426996	284918460 317392232	+++++ 334991246	Ave		299039718				9.0		20.0			
Dicamba	4724154000 4909954011	4686290000 5207323320	4534968280 5388006568	+++++ 5612732658	Ave		5009061262				8.0		20.0			
MCPP	7884133 4400635	6527974 4455255	5267855 4112711	+++++ 4449376	Lin2	3788366.60	4364984.05							0.9920		0.9900
MCPA	12132999 6957302	9867461 7087687	8095742 7726907	+++++ 11515156	QuaF		4913346.02	65572.7829						0.9990		0.9900
Dichlorprop	1530191200 1322496080	1346912320 1409029084	1248497660 1439600954	+++++ 1571966456	Ave		1409813393				8.2		20.0			
2,4-D	1455119800 1556427354	1427833320 1676989976	1378379440 1771254978	+++++ 1888747044	Ave		1593535987				12.0		20.0			
Pentachlorophenol	1646620640 1921739513 1	1720147248 2048464648 0	1719712904 2107629800 8	+++++ 2001760539 2	Ave		1.88087 E+010				9.8		20.0			
Silvex (2,4,5-TP)	6485508800 7411297737	6285531520 8011168944	6291178480 8488161760	+++++ 8766407800	Ave		7391322149				14.3		20.0			
2,4,5-T	5682918800 6570901349	5548829280 7200468352	5460540320 7796556056	+++++ 8265532020	Ave		6646535168				17.2		20.0			
Chloramben	4517941700 5823723000	4700489400 6340874844	4806727860 6796592718	+++++ 6392220091	Ave		5625509945				16.6		20.0			
Dinoseb	3007780400 3932806634	3092280280 4418115380	3099206900 4877825682	+++++ +++++	Lin1	-31374720	4635917151							0.9910		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4-DB	1087197600 952251726	1042060800 938110360	932485740 949664730	+++++ 1002259721	Ave		986290097				6.0		20.0			
Bentazon	780397900 785549754	726060480 836756404	711301340 879775606	+++++ 907942100	Ave		803969083				9.3		20.0			
Tetraphthalic acid, tetrachloro-, dimethyl	8667279600 1014672696 6	9065814440 1093590900 4	9037626500 1107339231 0	+++++ +++++	Ave		9821124803				10.6		20.0			
Picloram	5712837000 8850117086	6224124840 1018179070 4	6570648740 1156032159 2	+++++ 1146749100 7	Lin1	-105453629	1.12544 E+010							0.9930		0.9900
Acifluorfen	4064524500 7109623114	4814379800 8392297836	4971738380 9541817032	+++++ +++++	Qua	-69625687	6996898522	5409687578						0.9990		0.9900
2,4-Dichlorophenylacetic acid (Surr)	1435947500 1343087074	1388925080 1413952480	1300050800 1434982086	+++++ 1537345376	Ave		1407755771				5.4		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-523063/11	SE080011.D
Level 2	IC 680-523063/10	SE080010.D
Level 3	IC 680-523063/9	SE080009.D
Level 4	IC 680-523063/8	SE080008.D
Level 5	IC 680-523063/7	SE080007.D
Level 6	IC 680-523063/6	SE080006.D
Level 7	IC 680-523063/5	SE080005.D
Level 8	IC 680-523063/4	SE080004.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dalapon	Ave	17983150 395304302	39932951 817578391	71378402 1725206867	+++++	265586882	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
3,5-Dichlorobenzoic acid	Ave	18377513 448811682	44015926 930526789	82525138 1954171685	+++++	300893318	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
4-Nitrophenol	Ave	2506531 77606749	7416225 158696116	14245923 334991246	+++++	52193224	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dicamba	Ave	23620770 650915415	58578625 1347001642	113374207 2806366329	+++++	429620976	0.00500 0.125	0.0125 0.250	0.0250 0.500	+++++	0.0875
MCPP	Lin2	7884133 111381364	16319936 205635557	26339273 444937631	+++++	77011106	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
MCPA	QuaF	12132999 177192173	24668652 386345329	40478712 1151515629	+++++	121752778	1.00 25.0	2.50 50.0	5.00 100	+++++	17.5
Dichlorprop	Ave	15301912 352257271	33672808 719800477	62424883 1571966456	+++++	231436814	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
2,4-D	Ave	14551198 419247494	35695833 885627489	68918972 1888747044	+++++	272374787	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Pentachlorophenol	Ave	41165516 1280290405	107509203 2634537256	214964113 5004401348	+++++	840761037	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Silvex (2,4,5-TP)	Ave	16213772 500698059	39284572 1061020220	78639731 2191601950	+++++	324244276	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
2,4,5-T	Ave	14207297 450029272	34680183 974569507	68256754 2066383005	+++++	287476934	0.00250 0.0625	0.00625 0.125	0.0125 0.250	+++++	0.0438
Chloramben	Ave	45179417 1585218711	117512235 3398296359	240336393 6392220091	+++++	1019151525	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Dinoseb	Lin1	30077804 1104528845	77307007 2438912841	154960345 +++++	+++++	688241161	0.0100 0.250	0.0250 0.500	0.0500 +++++	+++++	0.175
2,4-DB	Ave	10871976 234527590	26051520 474832365	46624287 1002259721	+++++	166644052	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Bentazon	Ave	7803979 209189101	18151512 439887803	35565067 907942100	+++++	137471207	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

FORM VI
HERBICIDES BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-151915-1 Analy Batch No.: 523063

SDG No.:

Instrument ID: CSGS GC Column: DB-35MS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/08/2018 11:58 Calibration End Date: 05/08/2018 14:15 Calibration ID: 57165

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	86672796 2733977251	226645361 5536696155	451881325 +++++	+++++	1775677219	0.0100 0.250	0.0250 0.500	0.0500 +++++	+++++	0.175
Picloram	Lin1	57128370 2545447676	155603121 5780160796	328532437 1467491007	+++++	1548770490	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175
Acifluorfen	Qua	40645245 2098074459	120359495 4770908516	248586919 +++++	+++++	1244184045	0.0100 0.250	0.0250 0.500	0.0500 +++++	+++++	0.175
2,4-Dichlorophenylacetic acid (Surr)	Ave	14359475 353488120	34723127 717491043	65002540 1537345376	+++++	235040238	0.0100 0.250	0.0250 0.500	0.0500 1.00	+++++	0.175

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
Qua = Quadratic
QuaF = Quadratic forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D
Lims ID: ic h8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-May-2018 11:58:00 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-004
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:24:59 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:07:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	511012321	1.00	0.9751	
2	2.635	2.632	0.003	1725206867	1.00	1.07	
						RPD = 9.32	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	95938059	NC	NC	
2	5.103	5.102	0.001	555849594	NC	NC	
						RPD = 4.71	
3 2,4,6-Trichlorophenol							
1	5.788	5.786	0.002	1387562807	NC	NC	
2	5.780	5.776	0.004	5355785086	NC	NC	
						RPD = 10.60	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	337068861	1.00	1.05	
2	6.118	6.116	0.002	1954171685	1.00	1.09	
						RPD = 3.63	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	97562965	1.00	1.06	
2	6.503	6.505	-0.002	334991246	1.00	1.12	
						RPD = 5.98	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	214663766	1.00	1.02	
2	6.831	6.829	0.002	1537345376	1.00	1.09	
						RPD = 7.31	
7 Dicamba							
1	6.721	6.720	0.001	585243873	0.5000	0.5434	
2	6.914	6.910	0.004	2806366329	0.5000	0.5603	
						RPD = 3.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.872	6.867	0.005	104343971	100.0	99.8	
2	6.960	6.955	0.005	444937631	100.0	101.1	
						RPD = 1.25	
9 MCPA							
1	7.000	6.994	0.006	98467290	100.0	106.3	
2	7.161	7.155	0.006	1151515629	100.0	100.2	
						RPD = 5.90	
10 Dichlorprop							
1	7.181	7.180	0.001	290874356	1.00	1.05	
2	7.300	7.297	0.003	1571966456	1.00	1.12	
						RPD = 6.18	
11 2,4-D							
1	7.323	7.326	-0.003	357181097	1.00	1.18	
2	7.517	7.517	0.000	1888747044	1.00	1.19	
						RPD = 0.35	
12 Pentachlorophenol							
1	7.675	7.674	0.001	1628549099	0.2500	0.3025	
2	7.718	7.714	0.004	5004401348	0.2500	0.2661	
						RPD = 12.81	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	572693944	0.2500	0.3048	
2	7.848	7.846	0.002	2191601950	0.2500	0.2965	
						RPD = 2.77	
14 Chloramben							
1	7.848	7.855	-0.007	2124806109	1.00	1.00	
2	8.161	8.162	-0.001	6392220091	1.00	1.14	
						RPD = 12.86	
15 2,4,5-T							
1	7.923	7.929	-0.006	547016891	0.2500	0.2493	
2	8.082	8.083	-0.001	2066383005	0.2500	0.3109	
						RPD = 21.97	
16 2,4-DB							
1	8.167	8.175	-0.008	208315295	1.00	1.00	
2	8.298	8.302	-0.004	1002259721	1.00	1.02	
						RPD = 1.78	
17 Dinoseb							
1	8.224	8.224	0.000	1502700567	1.00	1.23	
2	8.252	8.248	0.004	4922703086	1.00	1.07	
						RPD = 13.86	
18 Bentazon							
1	8.299	8.300	-0.001	295542031	1.00	1.03	
2	8.664	8.662	0.002	907942100	1.00	1.13	
						RPD = 9.41	
19 Picloram							M
1	8.523	8.529	-0.006	3668133130	1.00	1.00	
2	9.011	9.005	0.006	11467491007	1.00	1.03	M
						RPD = 2.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	3847093339	1.00	1.17	
2	8.784	8.775	0.009	9887348056	1.00	1.01	
						RPD = 14.85	
21 Acifluorfen							M
1	9.667	9.666	0.001	3202033523	1.00	1.00	
2	9.799	9.792	0.007	9631196972	1.00	0.8404	M
						RPD = 17.32	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-8_00011 Amount Added: 1.00 Units: mL

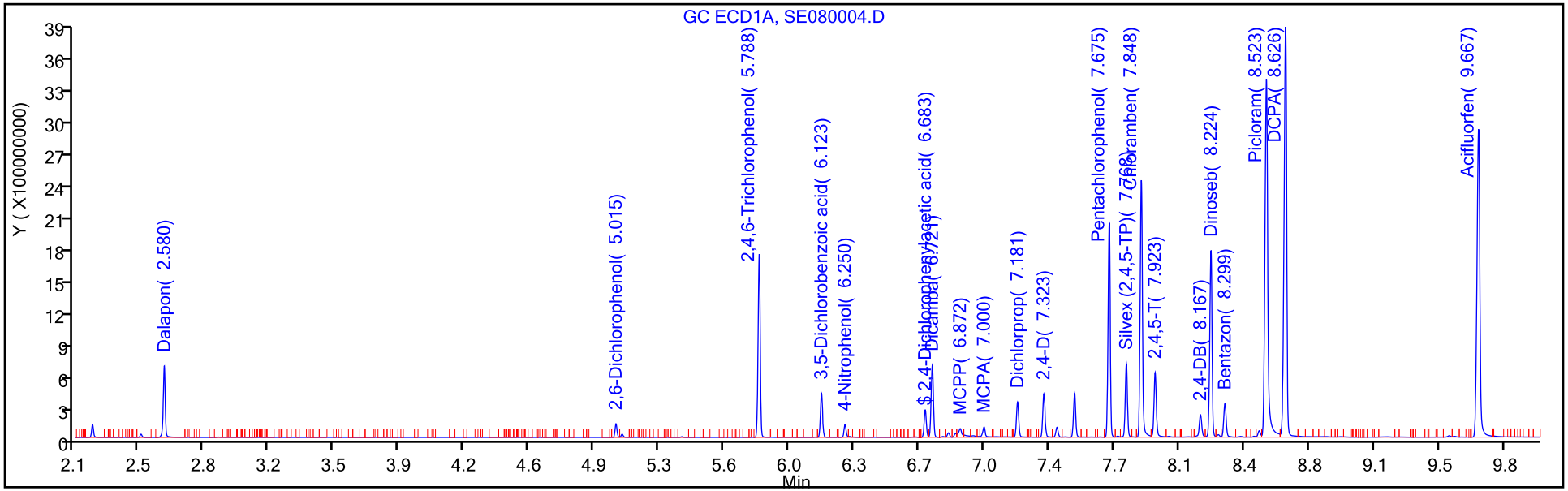
Report Date: 08-May-2018 16:25:00 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

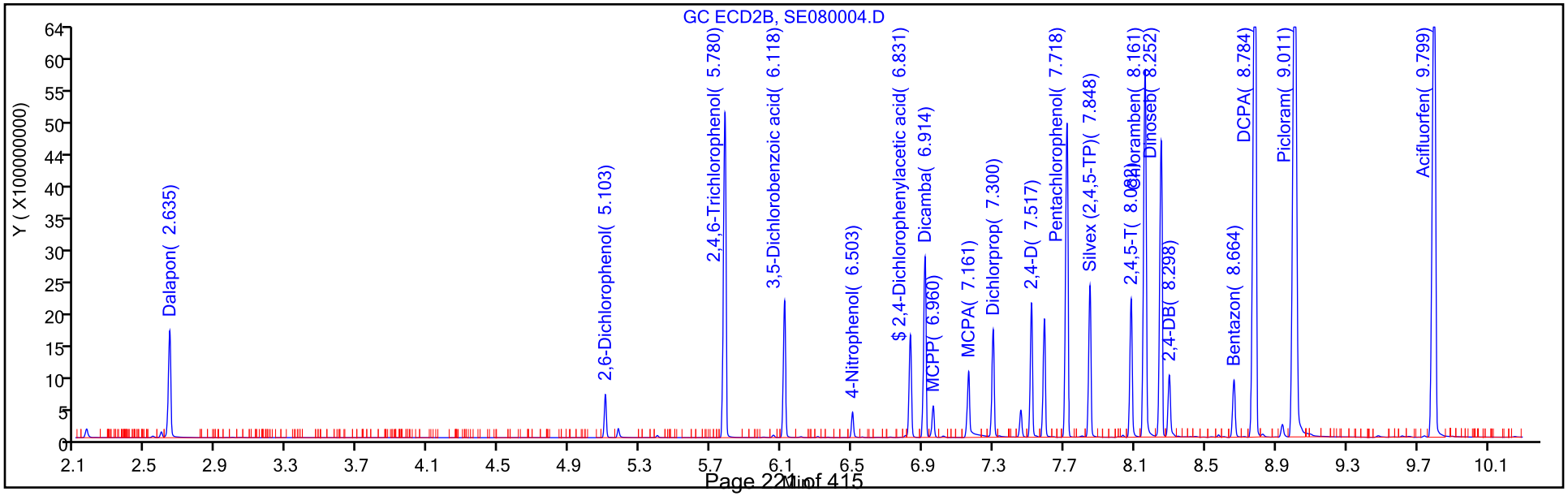
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D

Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h8			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

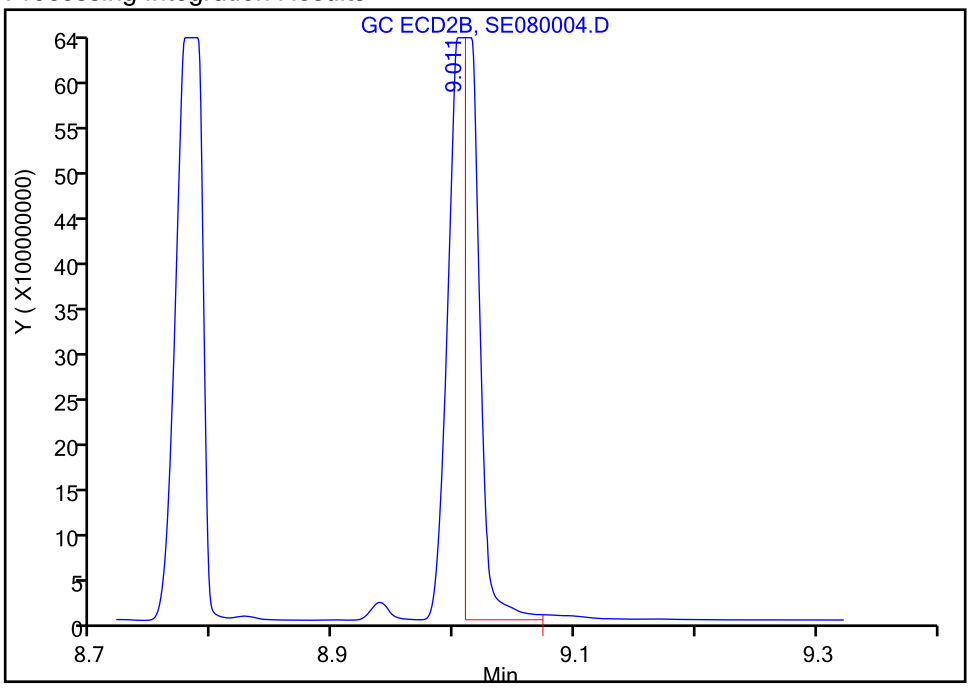
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080004.D				
Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

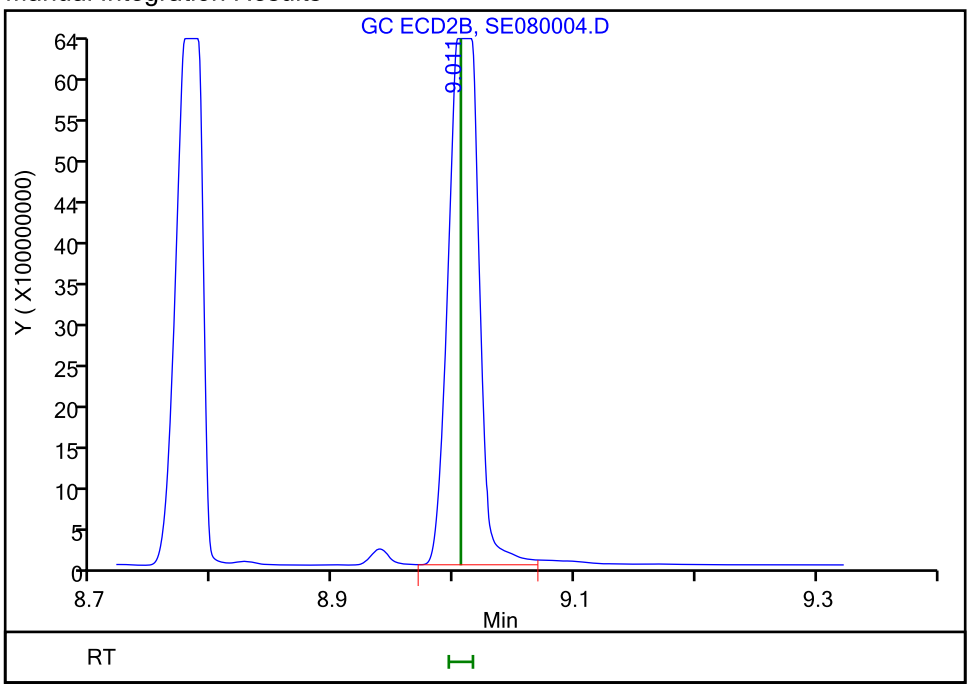
Processing Integration Results

RT: 9.01
Area: 5287226212
Amount: 0.658684
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 11467491007
Amount: 1.028306
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:07:43

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

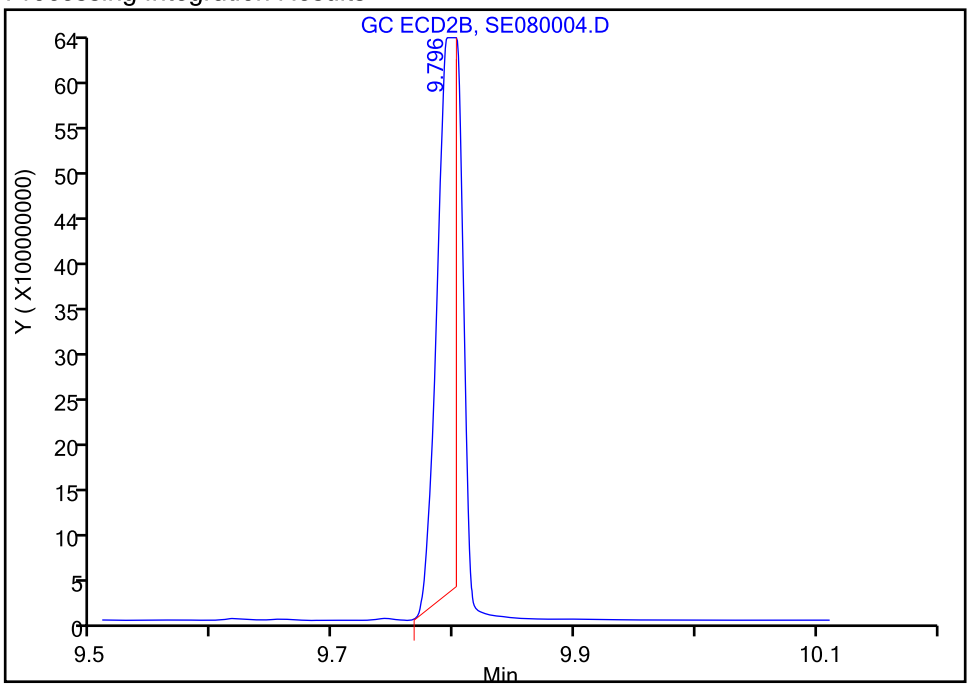
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Injection Date:	08-May-2018 11:58:00	Instrument ID:	CSGS		
Lims ID:	ic h8				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

21 Acifluorfen, CAS: 50594-66-6

Signal: 2

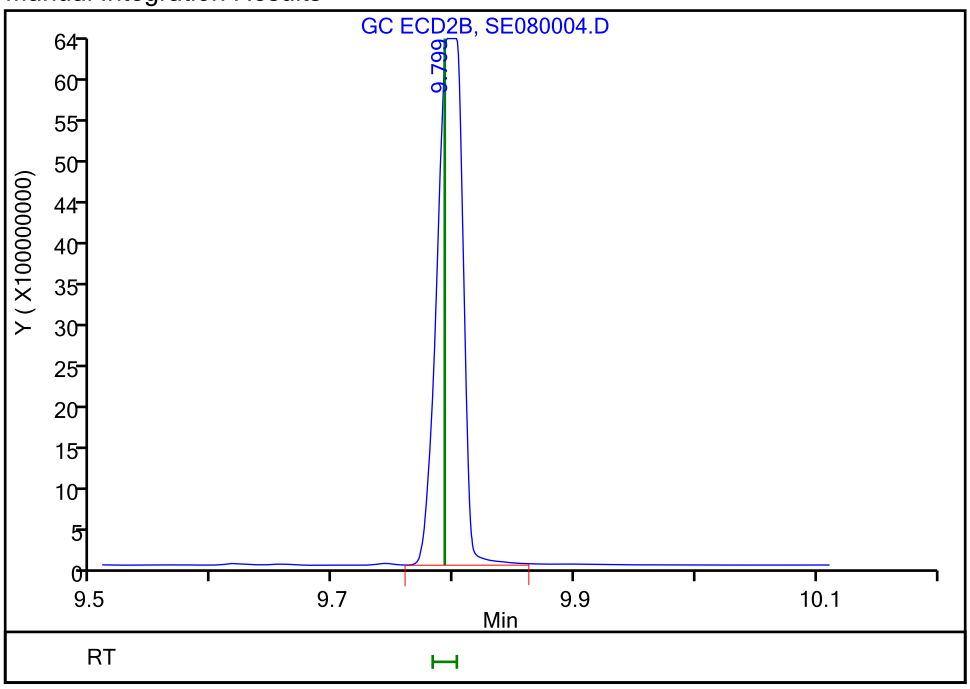
Processing Integration Results

RT: 9.80
Area: 6439853161
Amount: 1.004323
Amount Units: ug/ml



Manual Integration Results

RT: 9.80
Area: 9631196972
Amount: 0.840395
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:07:45

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D
Lims ID: ic h7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-May-2018 12:17:37 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-005
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:07 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	252815070	0.5000	0.4824	
2	2.634	2.632	0.002	817578391	0.5000	0.5073	
						RPD = 5.02	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	47948482	NC	NC	
2	5.102	5.102	0.000	271150549	NC	NC	
						RPD = 2.29	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	660797633	NC	NC	
2	5.779	5.776	0.003	2813586787	NC	NC	
						RPD = 0.79	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	165004902	0.5000	0.5134	
2	6.116	6.116	0.000	930526789	0.5000	0.5178	
						RPD = 0.87	
5 4-Nitrophenol							
1	6.250	6.253	-0.003	48081748	0.5000	0.5200	
2	6.503	6.505	-0.002	158696116	0.5000	0.5307	
						RPD = 2.03	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	105220295	0.5000	0.4975	
2	6.830	6.829	0.001	717491043	0.5000	0.5097	
						RPD = 2.41	
7 Dicamba							
1	6.720	6.720	0.000	282435535	0.2500	0.2622	
2	6.911	6.910	0.001	1347001642	0.2500	0.2689	
						RPD = 2.51	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.870	6.867	0.003	39090261	50.0	51.7	
2	6.957	6.955	0.002	205635557	50.0	46.2	
						RPD = 11.18	
9 MCPA							
1	6.996	6.994	0.002	51596040	50.0	55.7	
2	7.157	7.155	0.002	386345329	50.0	47.9	
						RPD = 14.99	
10 Dichlorprop							
1	7.180	7.180	0.000	144063420	0.5000	0.5192	
2	7.298	7.297	0.001	719800477	0.5000	0.5106	
						RPD = 1.67	
11 2,4-D							
1	7.322	7.326	-0.004	172138047	0.5000	0.5692	
2	7.515	7.517	-0.002	885627489	0.5000	0.5558	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	762859467	0.1250	0.1417	
2	7.716	7.714	0.002	2634537256	0.1250	0.1401	
						RPD = 1.15	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	276913650	0.1250	0.1474	
2	7.846	7.846	0.000	1061020220	0.1250	0.1435	
						RPD = 2.64	
14 Chloramben							
1	7.849	7.855	-0.006	948055347	0.5000	0.5069	
2	8.160	8.162	-0.002	3398296359	0.5000	0.6041	
						RPD = 17.50	
15 2,4,5-T							
1	7.922	7.929	-0.007	274321777	0.1250	0.1250	
2	8.080	8.083	-0.003	974569507	0.1250	0.1466	
						RPD = 15.89	
16 2,4-DB							
1	8.167	8.175	-0.008	95758632	0.5000	0.5113	
2	8.297	8.302	-0.005	474832365	0.5000	0.4814	
						RPD = 6.02	
17 Dinoseb							
1	8.223	8.224	-0.001	686899035	0.5000	0.5612	
2	8.250	8.248	0.002	2438912841	0.5000	0.5329	
						RPD = 5.19	
18 Bentazon							
1	8.299	8.300	-0.001	144238238	0.5000	0.5016	
2	8.663	8.662	0.001	439887803	0.5000	0.5471	
						RPD = 8.68	
19 Picloram							
1	8.523	8.529	-0.006	1551637070	0.5000	0.5051	
2	9.005	9.005	0.000	5780160796	0.5000	0.5230	
						RPD = 3.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	1796815722	0.5000	0.5456	
2	8.779	8.775	0.004	5536696155	0.5000	0.5638	
						RPD = 3.27	
21 Acifluorfen							
1	9.665	9.666	-0.001	1382056162	0.5000	0.5016	
2	9.794	9.792	0.002	4770908516	0.5000	0.4992	
						RPD = 0.48	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-7_00015 Amount Added: 1.00 Units: mL

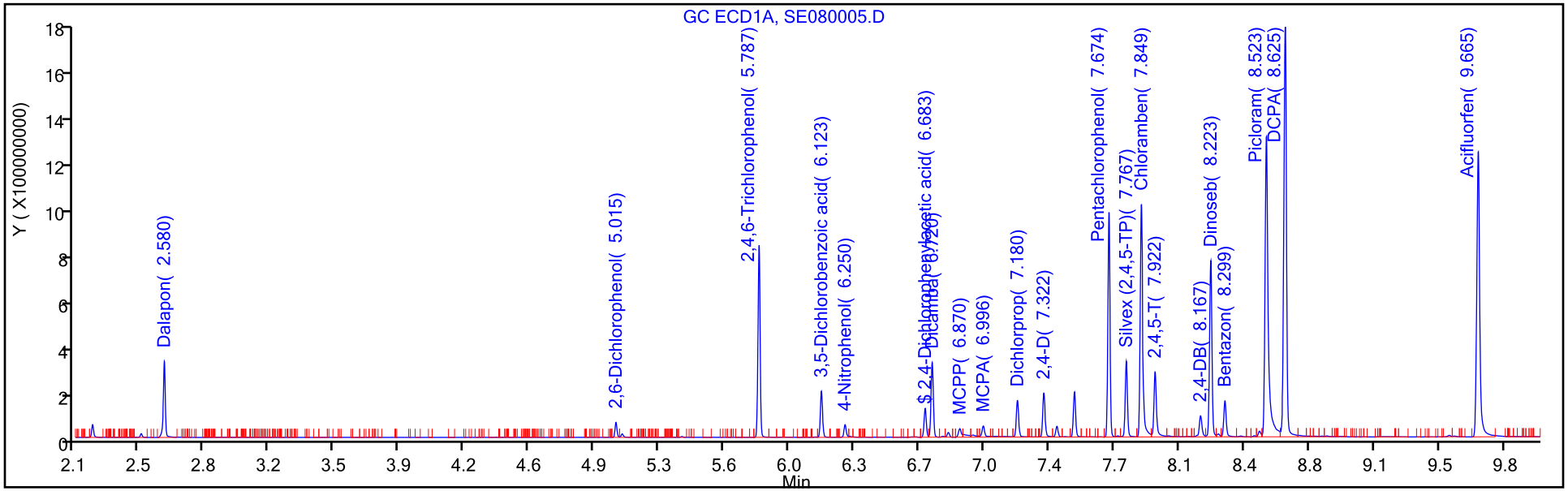
Report Date: 08-May-2018 16:25:09 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

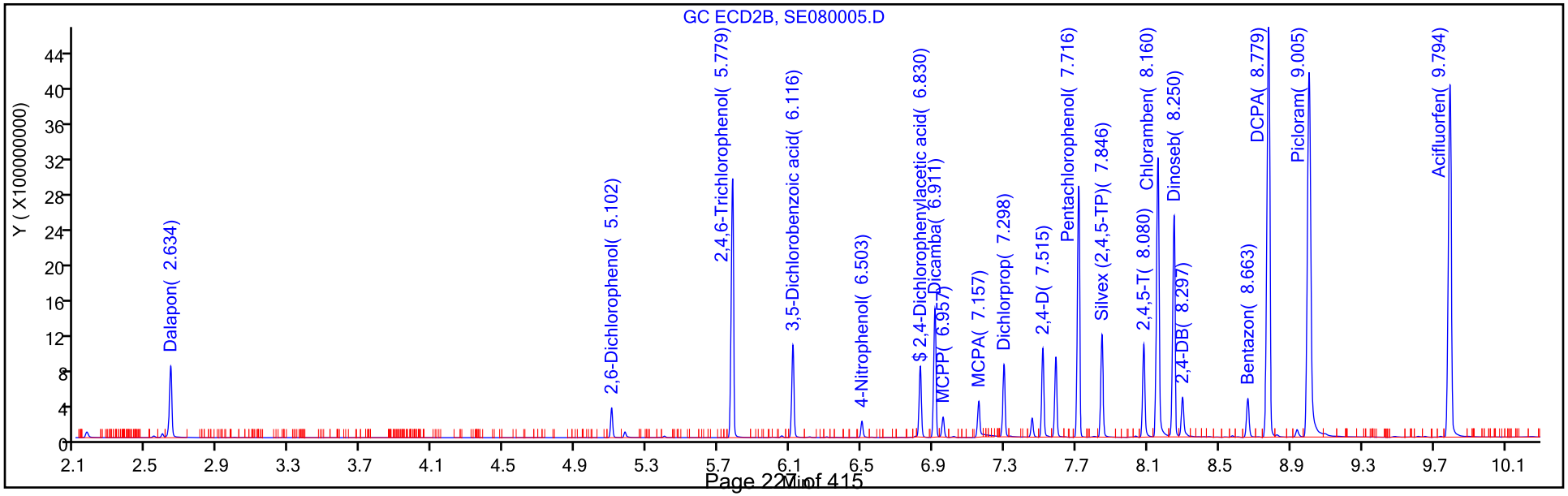
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080005.D

Injection Date:	08-May-2018 12:17:37	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080006.D
Lims ID: ic h6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-May-2018 12:37:18 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-006
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:13 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	126339938	0.2500	0.2411	
2	2.633	2.632	0.001	395304302	0.2500	0.2453	
						RPD = 1.72	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	24075005	NC	NC	
2	5.102	5.102	0.000	134909465	NC	NC	
						RPD = 1.37	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	317115758	NC	NC	
2	5.778	5.776	0.002	1376798630	NC	NC	
						RPD = 1.15	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	81038461	0.2500	0.2521	
2	6.117	6.116	0.001	448811682	0.2500	0.2498	
						RPD = 0.94	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	26992258	0.2500	0.2919	
2	6.503	6.505	-0.002	77606749	0.2500	0.2595	
						RPD = 11.76	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	51149844	0.2500	0.2419	
2	6.829	6.829	0.000	353488120	0.2500	0.2511	
						RPD = 3.75	
7 Dicamba							
1	6.721	6.720	0.001	135663470	0.1250	0.1260	
2	6.911	6.910	0.001	650915415	0.1250	0.1299	
						RPD = 3.11	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	12687646	25.0	22.2	
2	6.956	6.955	0.001	111381364	25.0	24.6	
						RPD = 10.33	
9 MCPA							
1	6.995	6.994	0.001	25890792	25.0	28.0	
2	7.155	7.155	0.000	177192173	25.0	26.6	
						RPD = 4.94	
10 Dichlorprop							
1	7.181	7.180	0.001	70616500	0.2500	0.2545	
2	7.298	7.297	0.001	352257271	0.2500	0.2499	
						RPD = 1.83	
11 2,4-D							
1	7.323	7.326	-0.003	81489809	0.2500	0.2695	
2	7.516	7.517	-0.001	419247494	0.2500	0.2631	
						RPD = 2.40	
12 Pentachlorophenol							
1	7.674	7.674	0.000	357293439	0.0625	0.0664	
2	7.715	7.714	0.001	1280290405	0.0625	0.0681	
						RPD = 2.54	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	130284362	0.0625	0.0693	
2	7.846	7.846	0.000	500698059	0.0625	0.0677	
						RPD = 2.34	
14 Chloramben							
1	7.850	7.855	-0.005	420812351	0.2500	0.2467	
2	8.159	8.162	-0.003	1585218711	0.2500	0.2818	
						RPD = 13.26	
15 2,4,5-T							
1	7.924	7.929	-0.005	138404340	0.0625	0.0631	
2	8.079	8.083	-0.004	450029272	0.0625	0.0677	
						RPD = 7.07	
16 2,4-DB							
1	8.169	8.175	-0.006	41914777	0.2500	0.2443	
2	8.298	8.302	-0.004	234527590	0.2500	0.2378	
						RPD = 2.69	
17 Dinoseb							
1	8.223	8.224	-0.001	318205530	0.2500	0.2600	
2	8.248	8.248	0.000	1104528845	0.2500	0.2450	
						RPD = 5.93	
18 Bentazon							
1	8.299	8.300	-0.001	71761268	0.2500	0.2496	
2	8.661	8.662	-0.001	209189101	0.2500	0.2602	
						RPD = 4.17	
19 Picloram							
1	8.525	8.529	-0.004	675298882	0.2500	0.2482	
2	9.005	9.005	0.000	2545447676	0.2500	0.2355	
						RPD = 5.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	842695237	0.2500	0.2559	
2	8.778	8.775	0.003	2733977251	0.2500	0.2784	
						RPD = 8.42	
21 Acifluorfen							
1	9.665	9.666	-0.001	633038479	0.2500	0.2522	
2	9.793	9.792	0.001	2098074459	0.2500	0.2582	
						RPD = 2.37	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-6_00015 Amount Added: 1.00 Units: mL

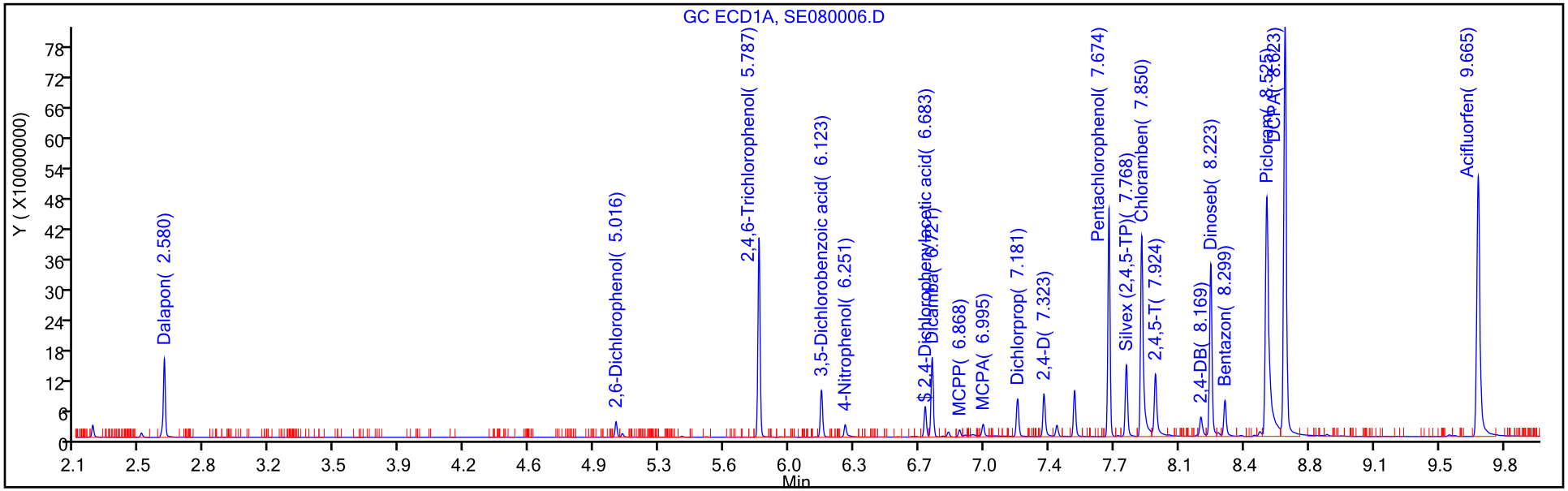
Report Date: 08-May-2018 16:25:15 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

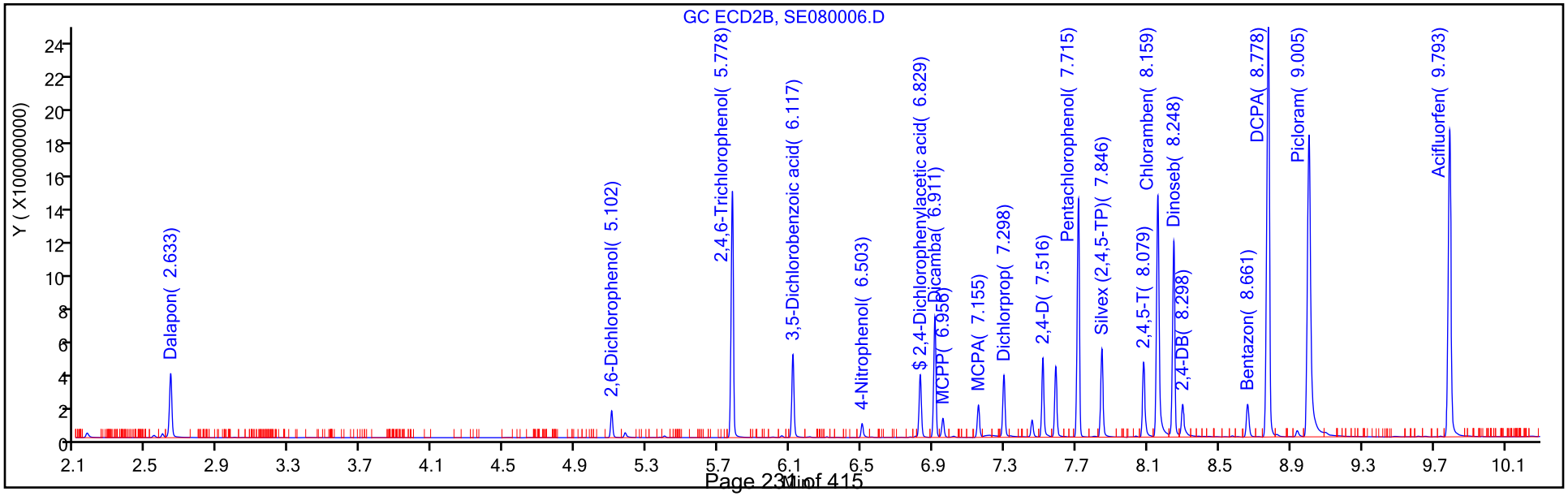
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Injection Date:	08-May-2018 12:37:18	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080007.D
Lims ID: ic h5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-May-2018 12:56:54 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-007
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:18 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: meinckeg Date: 08-May-2018 13:25:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	87735176	0.1750	0.1674	
2	2.633	2.632	0.001	265586882	0.1750	0.1648	
						RPD = 1.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16721808	NC	NC	
2	5.101	5.102	-0.001	91409134	NC	NC	
						RPD = 1.11	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	212201404	NC	NC	
2	5.776	5.776	0.000	921748528	NC	NC	
						RPD = 1.20	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	54279812	0.1750	0.1689	
2	6.116	6.116	0.000	300893318	0.1750	0.1674	
						RPD = 0.85	
5 4-Nitrophenol							
1	6.251	6.253	-0.002	17047628	0.1750	0.1844	
2	6.504	6.505	-0.001	52193224	0.1750	0.1745	
						RPD = 5.49	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	35013881	0.1750	0.1656	
2	6.829	6.829	0.000	235040238	0.1750	0.1670	
						RPD = 0.84	
7 Dicamba							
1	6.721	6.720	0.001	91550778	0.0875	0.0850	
2	6.911	6.910	0.001	429620976	0.0875	0.0858	
						RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	8640069	17.5	16.3	
2	6.955	6.955	0.000	77011106	17.5	16.8	
						RPD = 2.77	
9 MCPA							
1	6.994	6.994	0.000	17766771	17.5	19.2	
2	7.153	7.155	-0.002	121752778	17.5	19.6	
						RPD = 2.31	
10 Dichlorprop							
1	7.181	7.180	0.001	48109296	0.1750	0.1734	
2	7.296	7.297	-0.001	231436814	0.1750	0.1642	
						RPD = 5.46	
11 2,4-D							
1	7.324	7.326	-0.002	54093373	0.1750	0.1789	
2	7.515	7.517	-0.002	272374787	0.1750	0.1709	
						RPD = 4.55	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	237204468	0.0438	0.0441	
2	7.713	7.714	-0.001	840761037	0.0438	0.0447	
						RPD = 1.45	
13 Silvex (2,4,5-TP)							
1	7.767	7.769	-0.002	84634924	0.0438	0.0450	
2	7.845	7.846	-0.001	324244276	0.0438	0.0439	
						RPD = 2.66	
14 Chloramben							
1	7.852	7.855	-0.003	269520100	0.1750	0.1655	
2	8.159	8.162	-0.003	1019151525	0.1750	0.1812	
						RPD = 9.06	
15 2,4,5-T							
1	7.925	7.929	-0.004	93534318	0.0438	0.0426	
2	8.080	8.083	-0.003	287476934	0.0438	0.0433	
						RPD = 1.44	
16 2,4-DB							
1	8.171	8.175	-0.004	26059778	0.1750	0.1599	
2	8.298	8.302	-0.004	166644052	0.1750	0.1690	
						RPD = 5.54	
17 Dinoseb							
1	8.222	8.224	-0.002	207576561	0.1750	0.1696	
2	8.246	8.248	-0.002	688241161	0.1750	0.1552	
						RPD = 8.85	
18 Bentazon							
1	8.299	8.300	-0.001	47511232	0.1750	0.1652	
2	8.661	8.662	-0.001	137471207	0.1750	0.1710	
						RPD = 3.43	
19 Picloram							
1	8.526	8.529	-0.003	428630902	0.1750	0.1666	
2	9.005	9.005	0.000	1548770490	0.1750	0.1470	
						RPD = 12.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	565445884	0.1750	0.1717	
2	8.776	8.775	0.001	1775677219	0.1750	0.1808	
						RPD = 5.16	
21 Acifluorfen							
1	9.665	9.666	-0.001	407675485	0.1750	0.1692	
2	9.791	9.792	-0.001	1244184045	0.1750	0.1664	
						RPD = 1.67	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

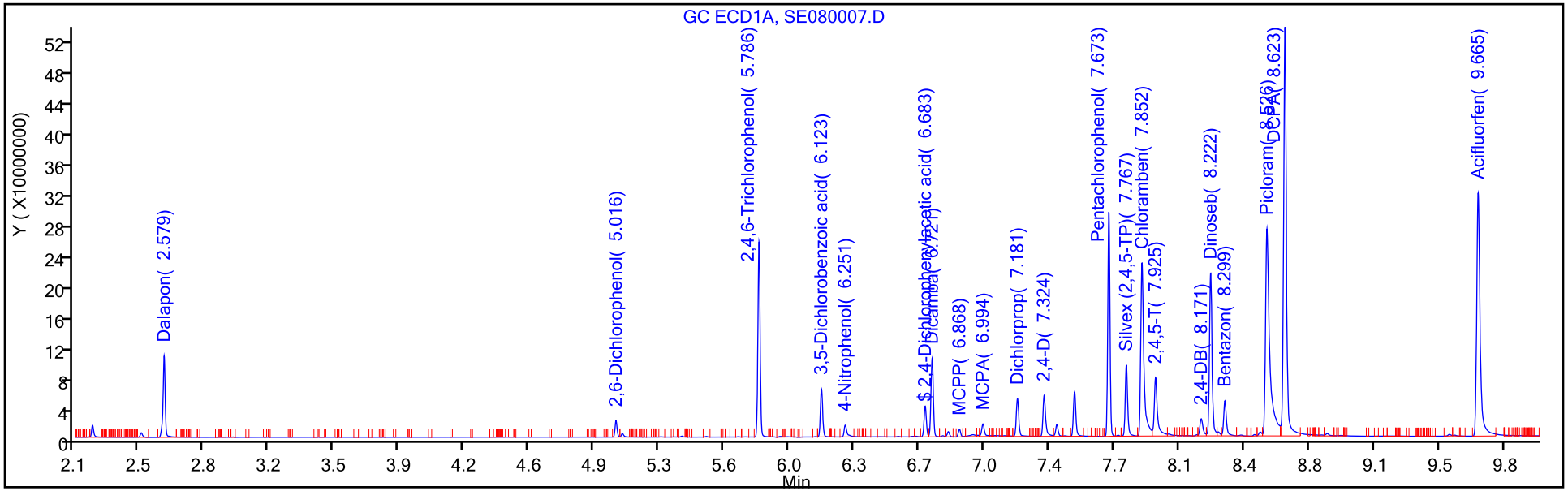
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TestAmerica Savannah

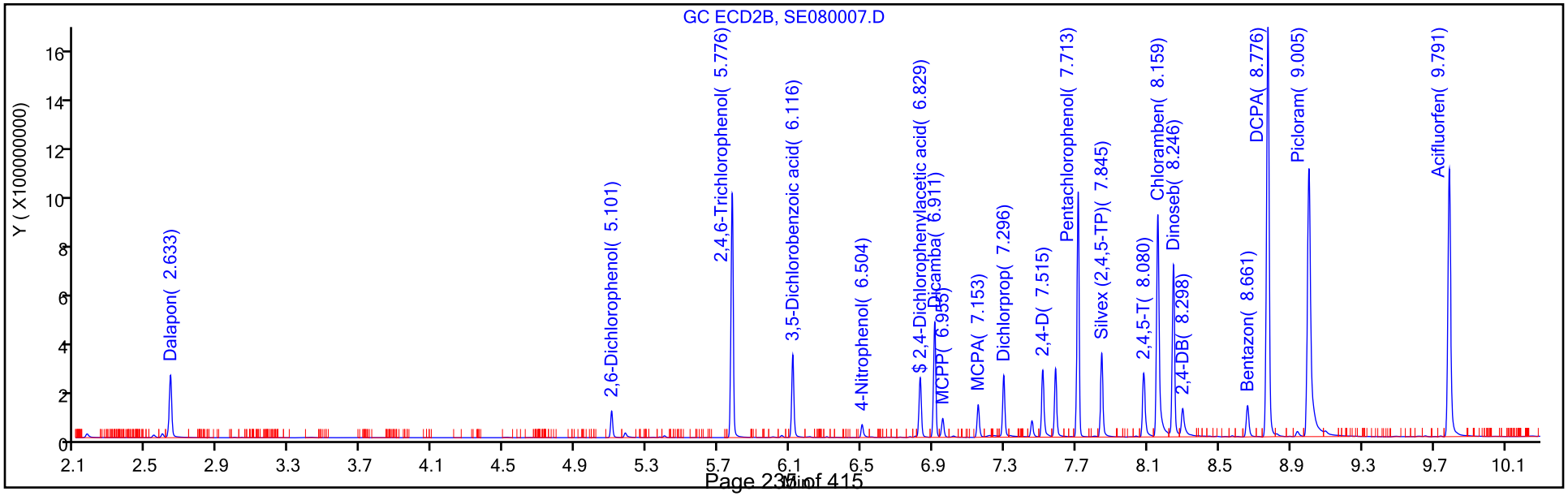
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Injection Date:	08-May-2018 12:56:54	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h5			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D
Lims ID: ic h4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-May-2018 13:16:38 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-008
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:24 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	49026258	0.1000	0.0935	
2	2.632	2.632	0.000	144107629	0.1000	0.0894	
						RPD = 4.52	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	9648349	NC	NC	
2	5.102	5.102	0.000	51409780	NC	NC	
						RPD = 3.66	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	115367190	NC	NC	
2	5.776	5.776	0.000	492889358	NC	NC	
						RPD = 0.46	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	30442227	0.1000	0.0947	
2	6.116	6.116	0.000	163818500	0.1000	0.0912	
						RPD = 3.82	
5 4-Nitrophenol							
1	6.253	6.253	0.000	9830837	0.1000	0.1063	
2	6.505	6.505	0.000	28145758	0.1000	0.0941	
						RPD = 12.18	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	19553071	0.1000	0.0925	
2	6.829	6.829	0.000	126698158	0.1000	0.0900	
						RPD = 2.70	
7 Dicamba							
1	6.720	6.720	0.000	50221281	0.0500	0.0466	
2	6.910	6.910	0.000	229111440	0.0500	0.0457	
						RPD = 1.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	5032337	10.0	10.4	
2	6.955	6.955	0.000	44613118	10.0	9.35	
						RPD = 11.06	
9 MCPA							M
1	6.994	6.994	0.000	10021981	10.0	10.8	
2	7.155	7.155	0.000	72306759	10.0	12.6	M
						RPD = 15.16	
10 Dichlorprop							M
1	7.180	7.180	0.000	27204673	0.1000	0.0980	
2	7.297	7.297	0.000	128102012	0.1000	0.0909	M
						RPD = 7.59	
11 2,4-D							M
1	7.326	7.326	0.000	29475053	0.1000	0.0975	
2	7.517	7.517	0.000	145386532	0.1000	0.0912	M
						RPD = 6.61	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	126808590	0.0250	0.0236	
2	7.714	7.714	0.000	448807878	0.0250	0.0239	M
						RPD = 1.30	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	44774730	0.0250	0.0238	
2	7.846	7.846	0.000	170517091	0.0250	0.0231	M
						RPD = 3.25	
14 Chloramben							M
1	7.855	7.855	0.000	136550994	0.1000	0.0910	
2	8.162	8.162	0.000	528388568	0.1000	0.0939	M
						RPD = 3.16	
15 2,4,5-T							M
1	7.929	7.929	0.000	56867356	0.0250	0.0259	
2	8.083	8.083	0.000	149160522	0.0250	0.0224	M
						RPD = 14.39	
16 2,4-DB							M
1	8.175	8.175	0.000	13655211	0.1000	0.0916	
2	8.302	8.302	0.000	97285447	0.1000	0.0986	M
						RPD = 7.35	
17 Dinoseb							M
1	8.224	8.224	0.000	110631354	0.1000	0.0904	
2	8.248	8.248	0.000	344721192	0.1000	0.0811	M
						RPD = 10.80	
18 Bentazon							M
1	8.300	8.300	0.000	27567147	0.1000	0.0959	
2	8.662	8.662	0.000	74902105	0.1000	0.0932	M
						RPD = 2.86	
19 Picloram							M
1	8.529	8.529	0.000	216808821	0.1000	0.0920	
2	9.005	9.005	0.000	759779337	0.1000	0.0769	M
						RPD = 17.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.623	8.623	0.000	315619469	0.1000	0.0958	
2	8.775	8.775	0.000	947740711	0.1000	0.0965	M
						RPD = 0.69	
21 Acifluorfen							
1	9.666	9.666	0.000	217026310	0.1000	0.0952	
2	9.792	9.792	0.000	596281084	0.1000	0.0890	
						RPD = 6.71	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

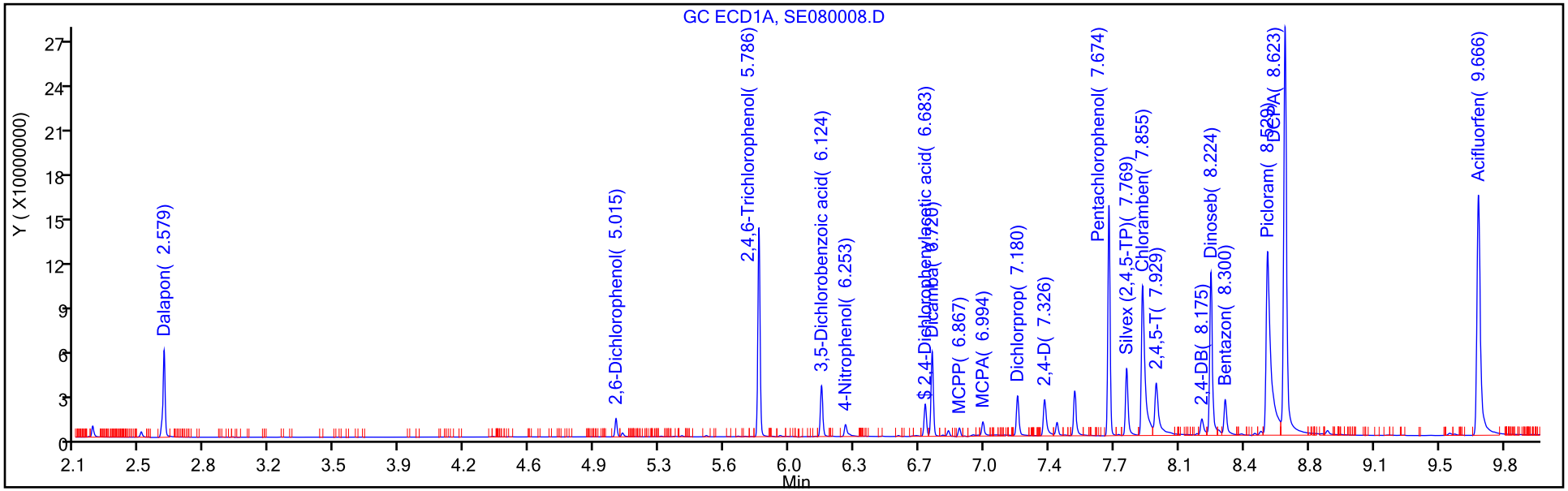
Report Date: 08-May-2018 16:25:26 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

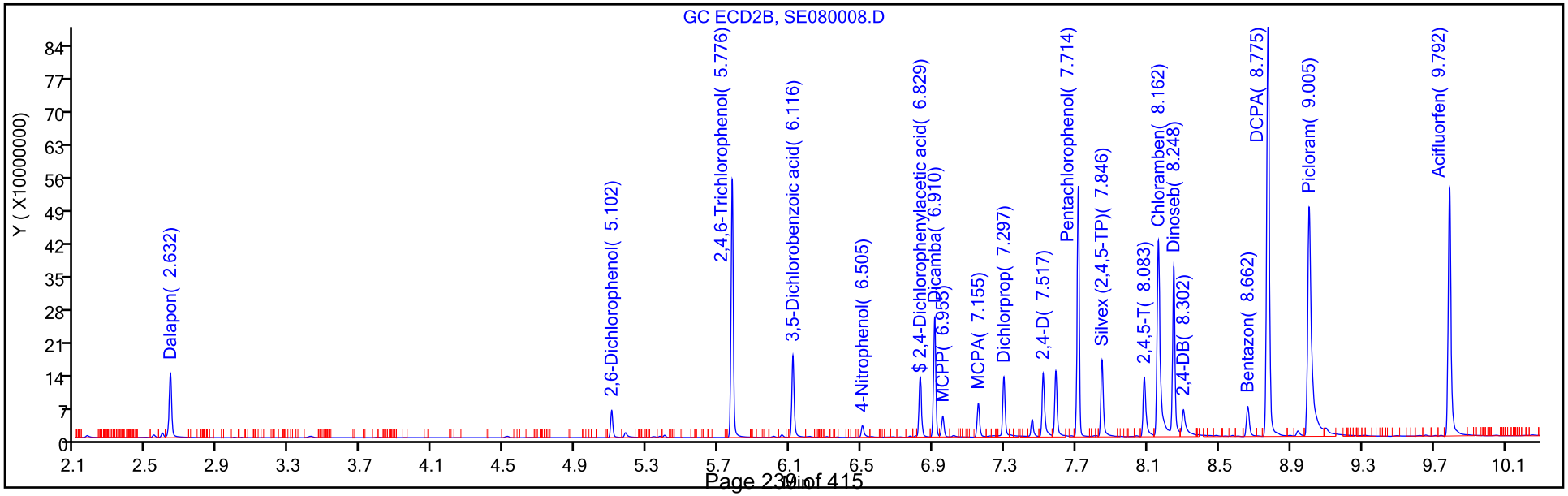
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D

Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

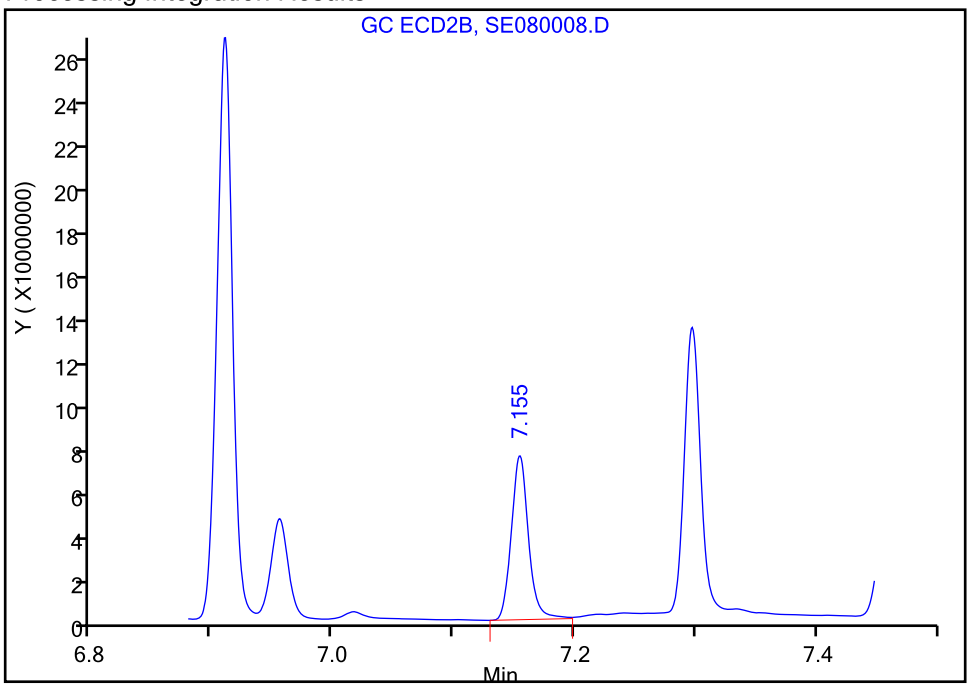
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Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

9 MCPA, CAS: 94-74-6

Signal: 2

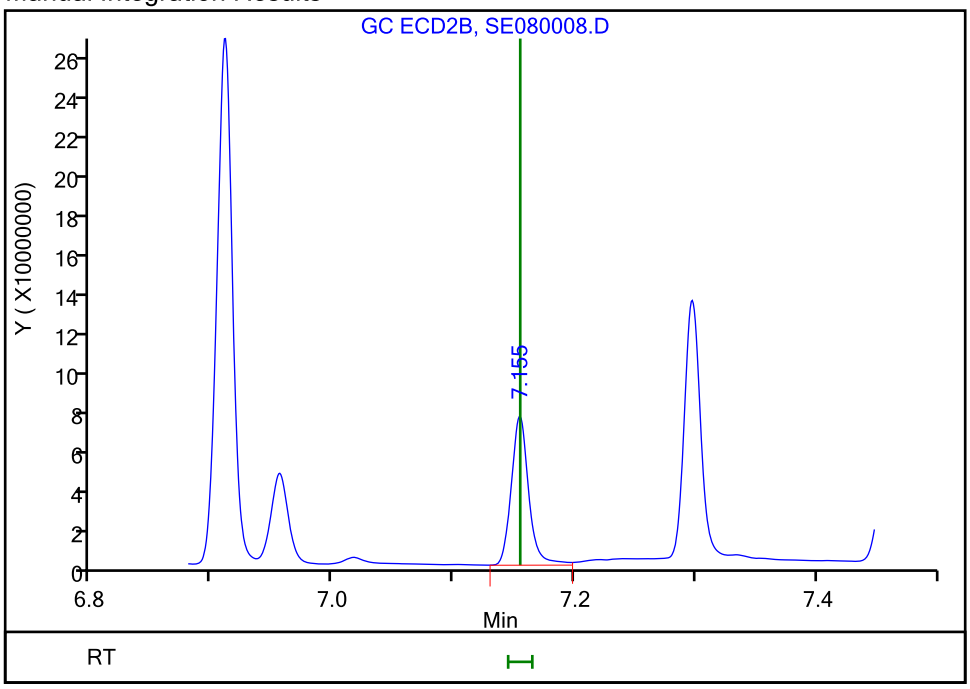
Processing Integration Results

RT: 7.15
Area: 70638307
Amount: 12.168042
Amount Units: ug/ml



Manual Integration Results

RT: 7.15
Area: 72306759
Amount: 12.598213
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

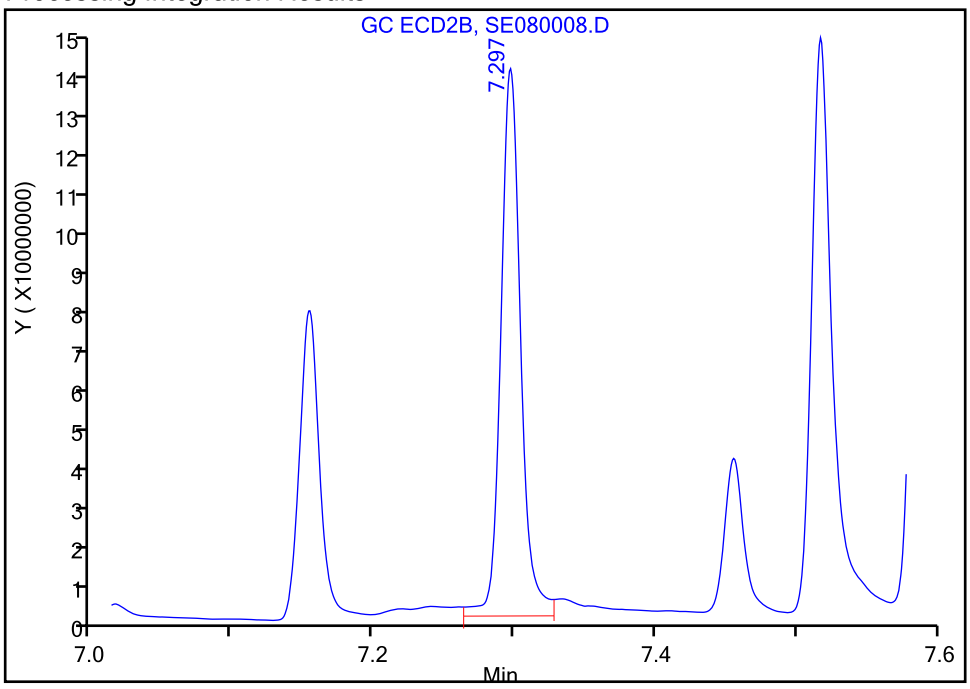
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Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

10 Dichlorprop, CAS: 120-36-5

Signal: 2

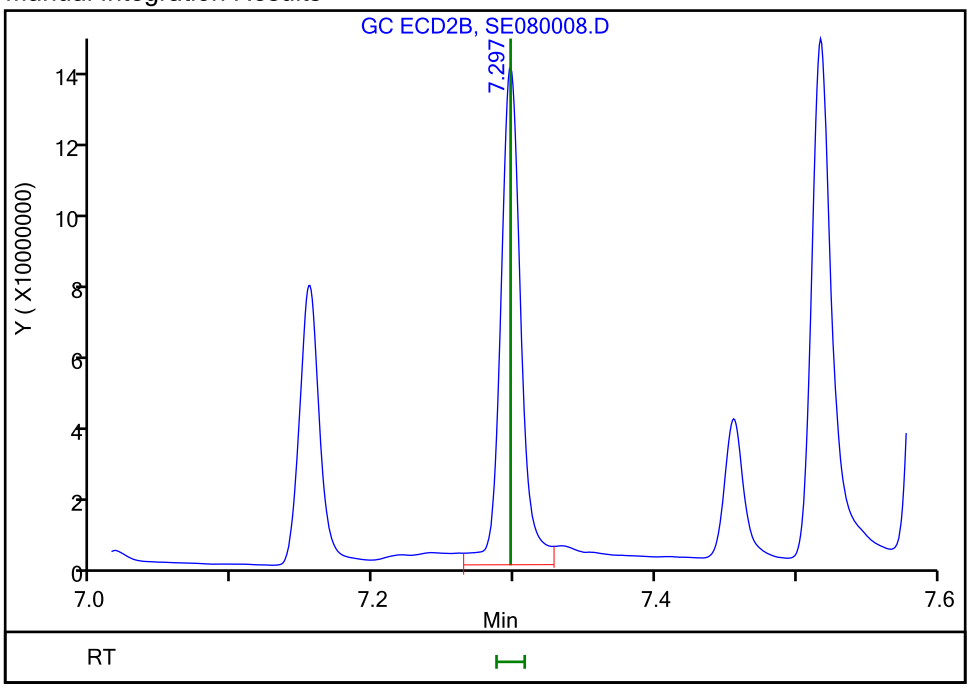
Processing Integration Results

RT: 7.30
Area: 124658322
Amount: 0.089720
Amount Units: ug/ml



Manual Integration Results

RT: 7.30
Area: 128102012
Amount: 0.090865
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

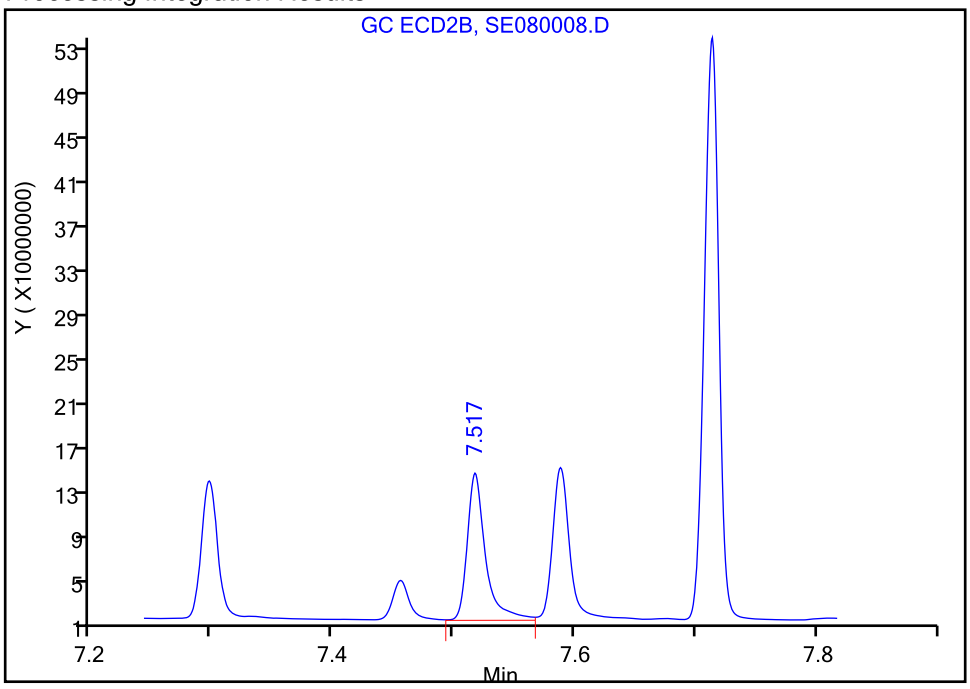
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Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

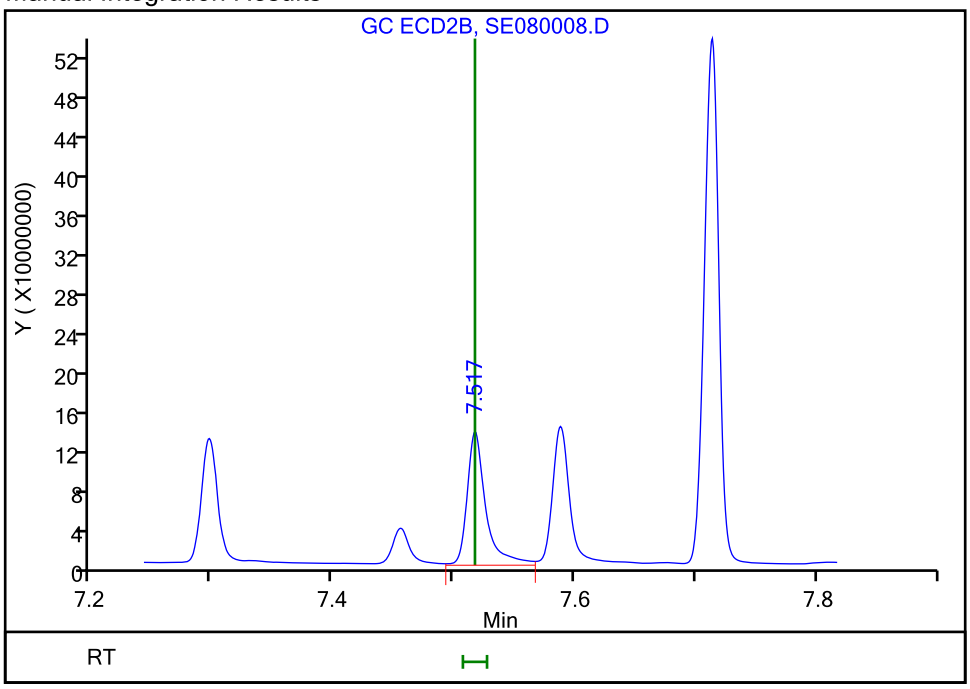
Processing Integration Results

RT: 7.52
Area: 140860308
Amount: 0.087306
Amount Units: ug/ml



Manual Integration Results

RT: 7.52
Area: 145386532
Amount: 0.091235
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

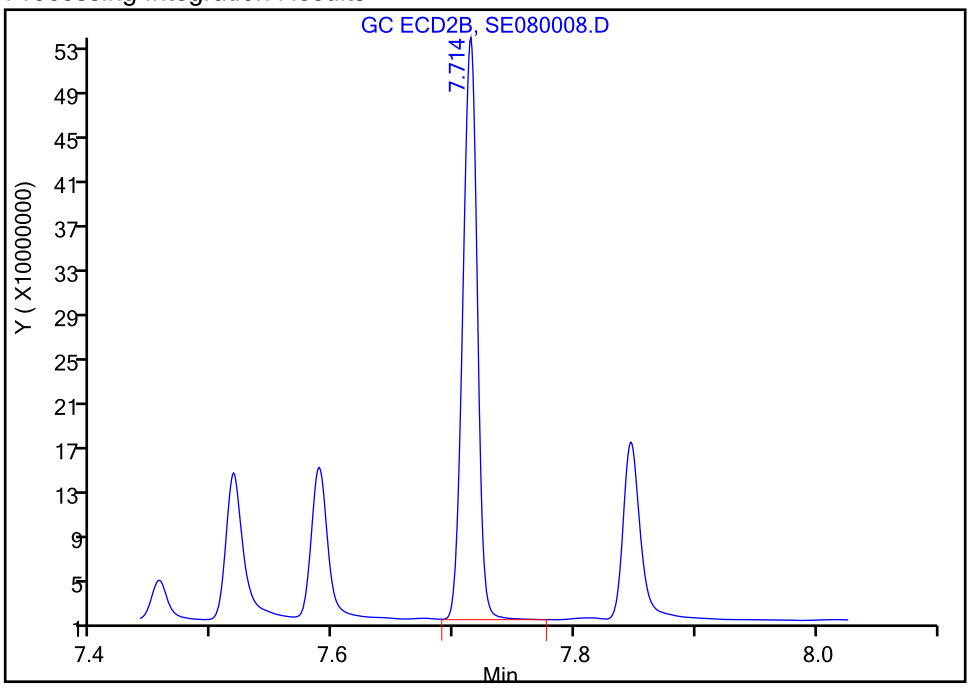
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Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS		
Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

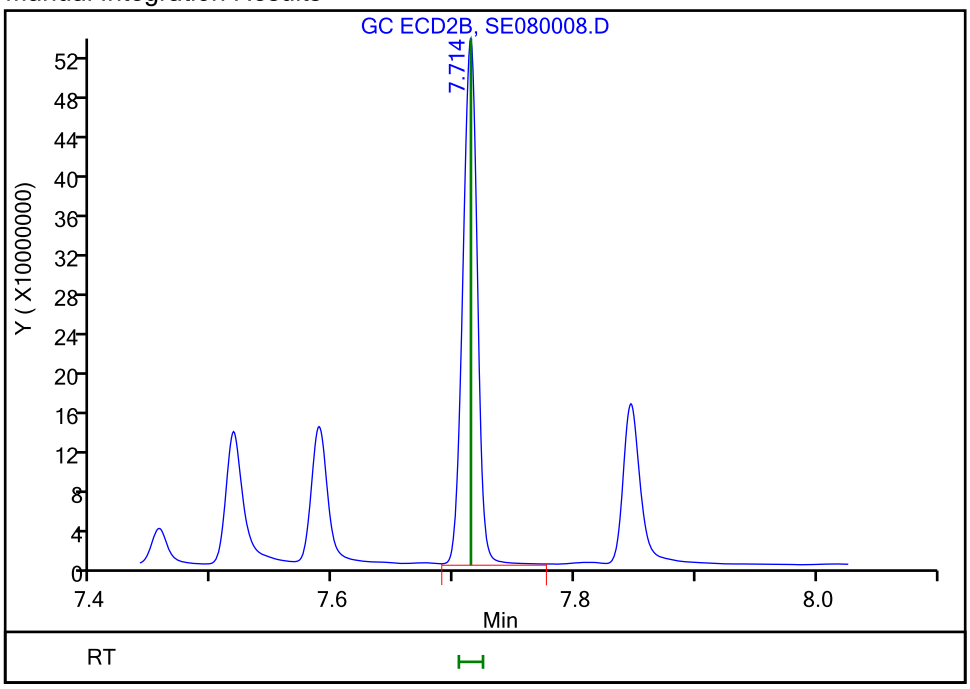
Processing Integration Results

RT: 7.71
Area: 442694800
Amount: 0.023710
Amount Units: ug/ml



Manual Integration Results

RT: 7.71
Area: 448807878
Amount: 0.023862
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

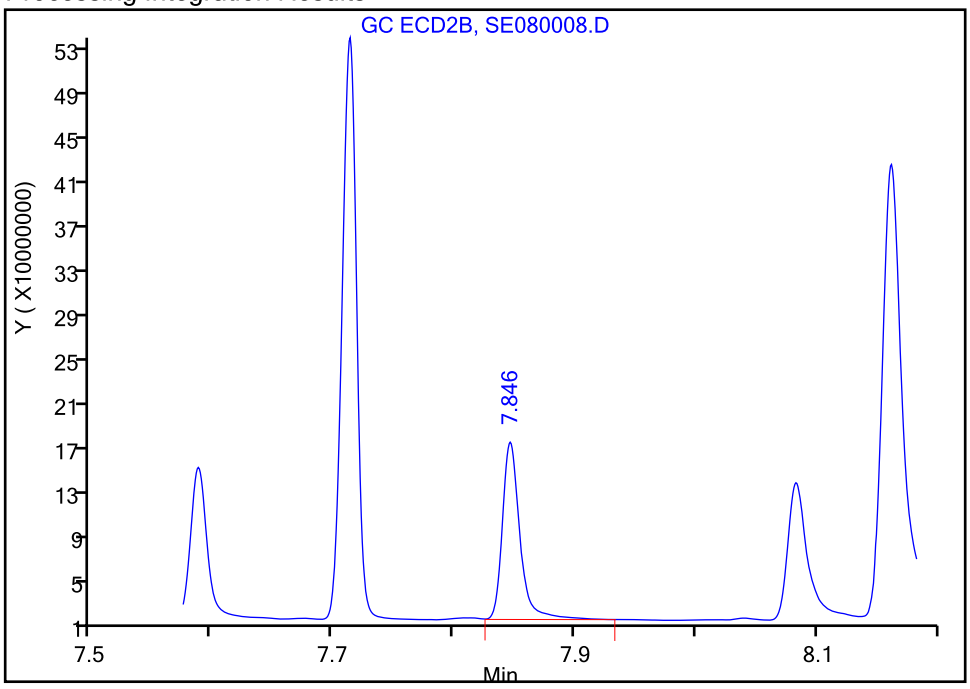
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

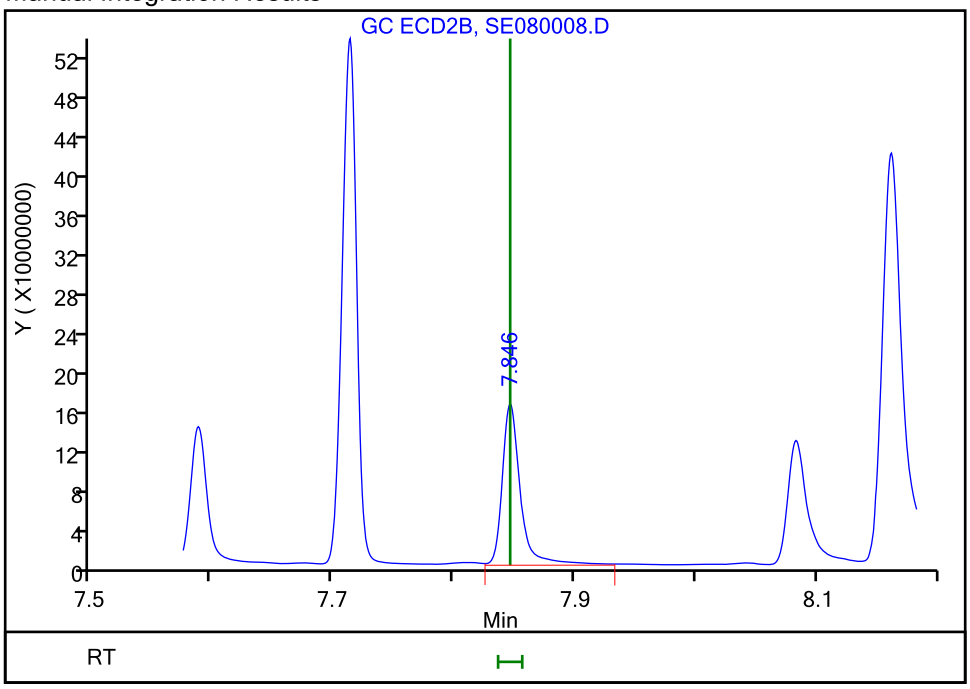
Processing Integration Results

RT: 7.85
Area: 163005295
Amount: 0.022383
Amount Units: ug/ml



Manual Integration Results

RT: 7.85
Area: 170517091
Amount: 0.023070
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

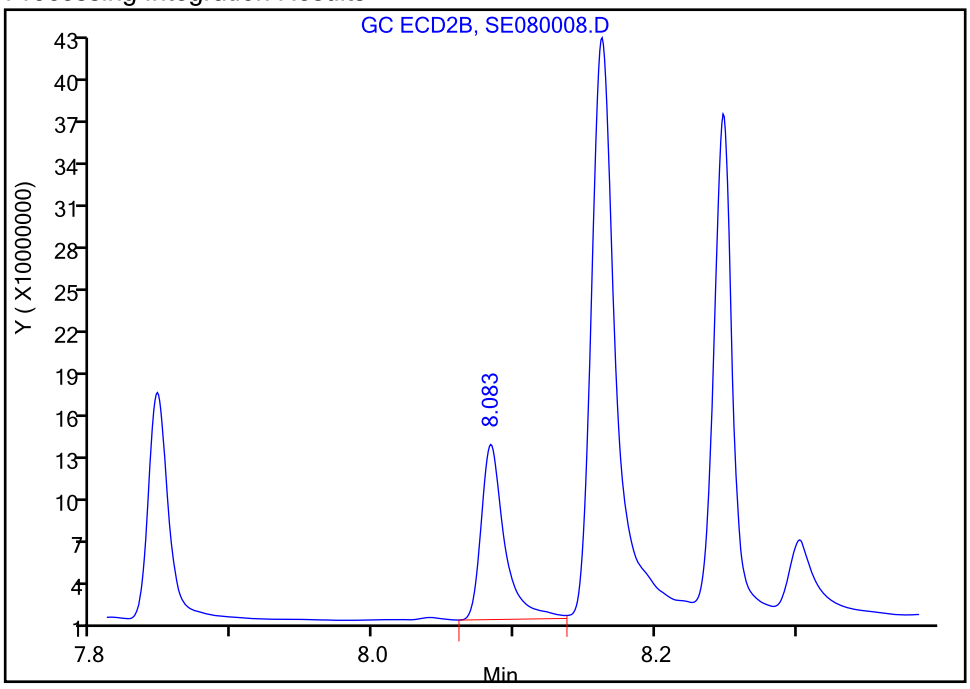
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5

Signal: 2

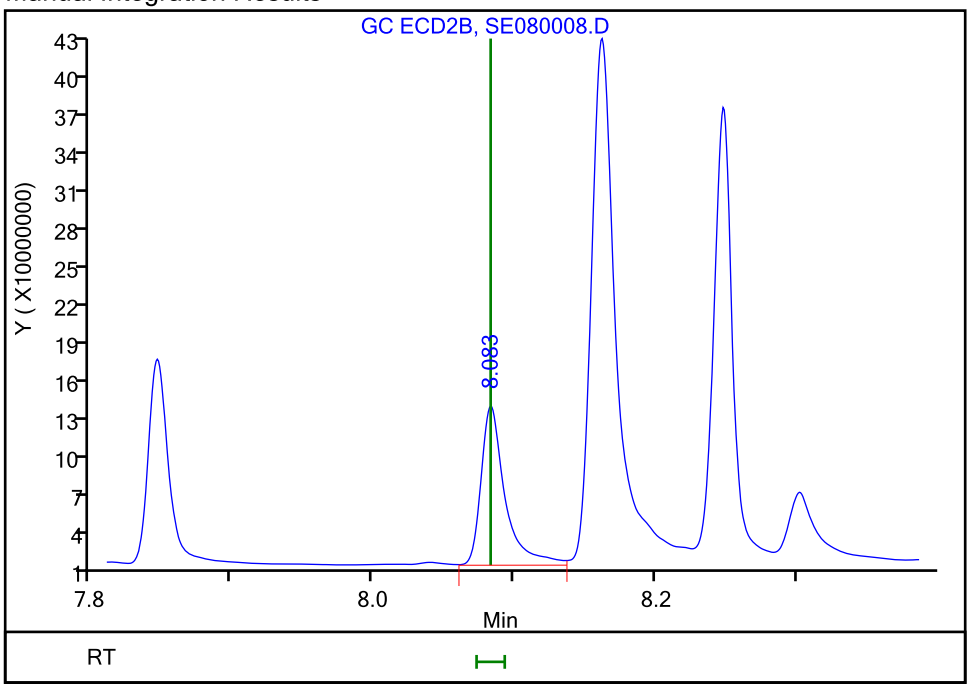
Processing Integration Results

RT: 8.08
Area: 144622118
Amount: 0.022117
Amount Units: ug/ml



Manual Integration Results

RT: 8.08
Area: 149160522
Amount: 0.022442
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

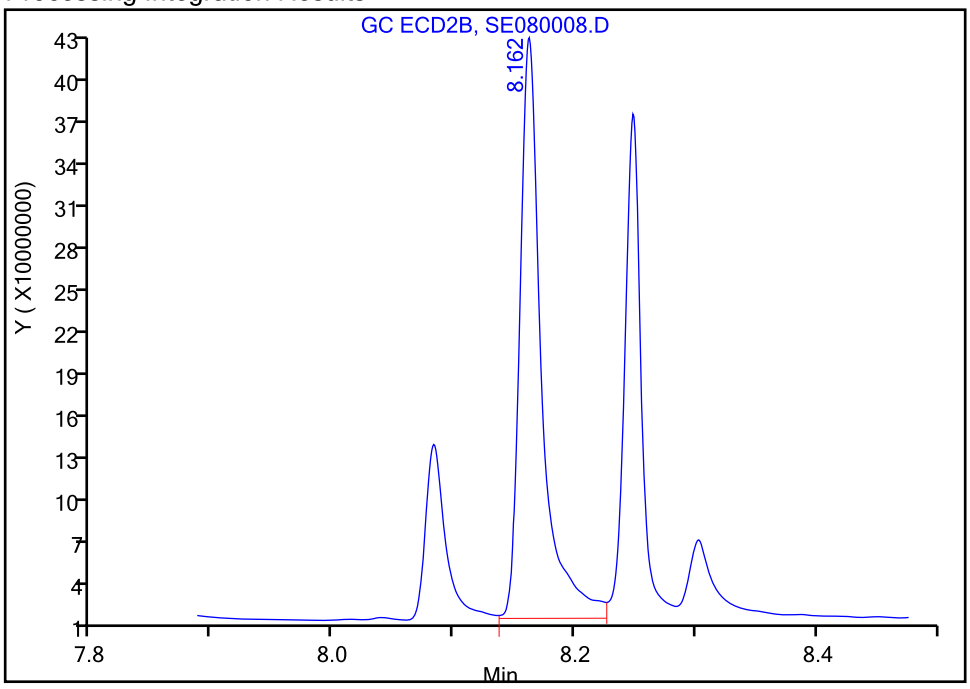
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Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS		
Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

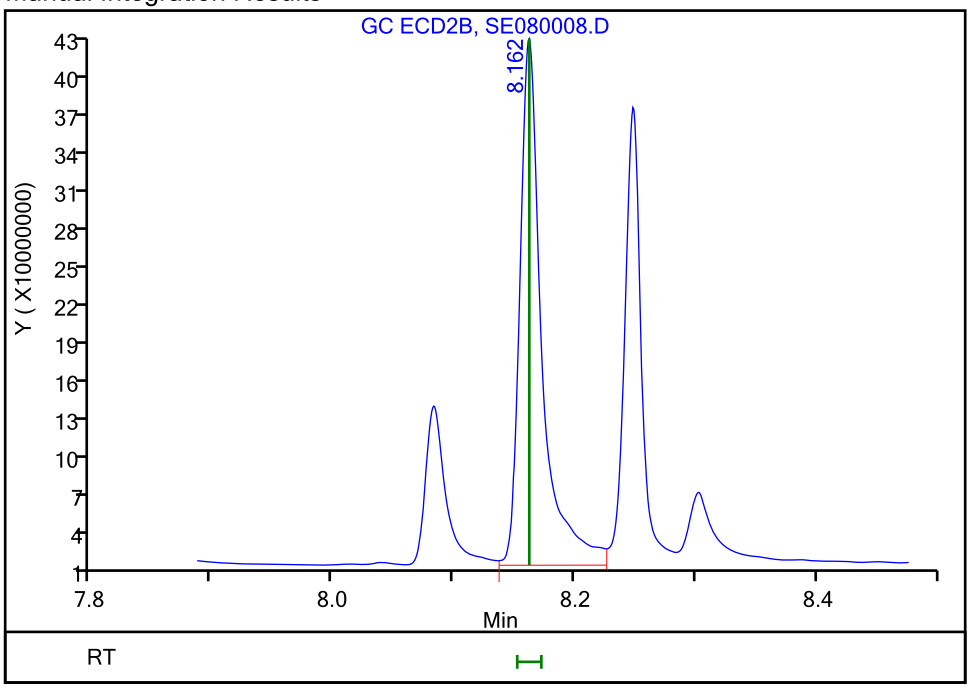
Processing Integration Results

RT: 8.16
Area: 520020336
Amount: 0.090865
Amount Units: ug/ml



Manual Integration Results

RT: 8.16
Area: 528388568
Amount: 0.093927
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

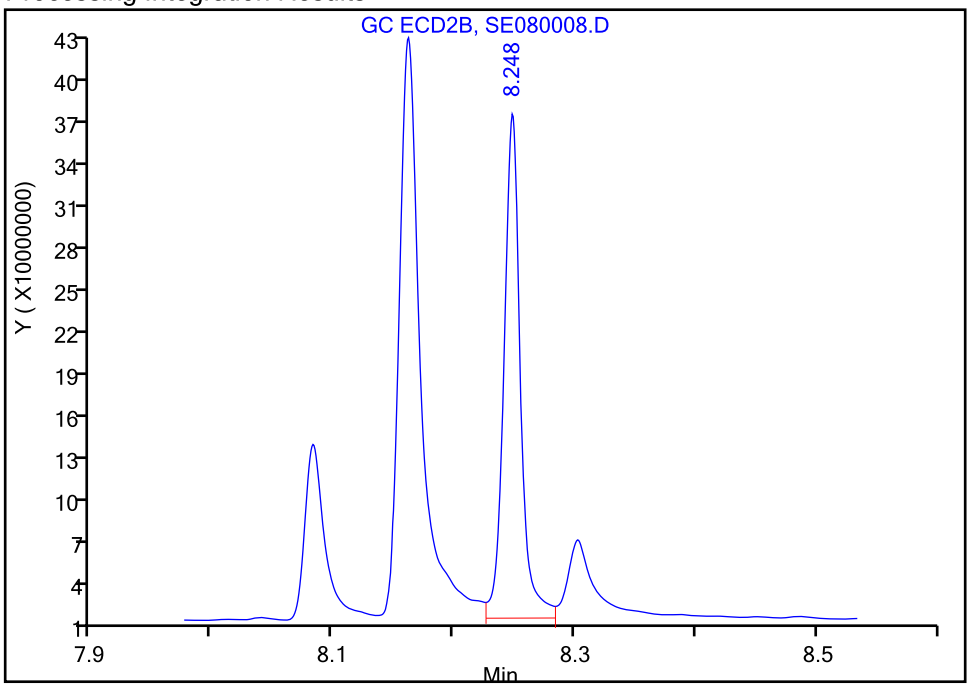
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

17 Dinoseb, CAS: 88-85-7

Signal: 2

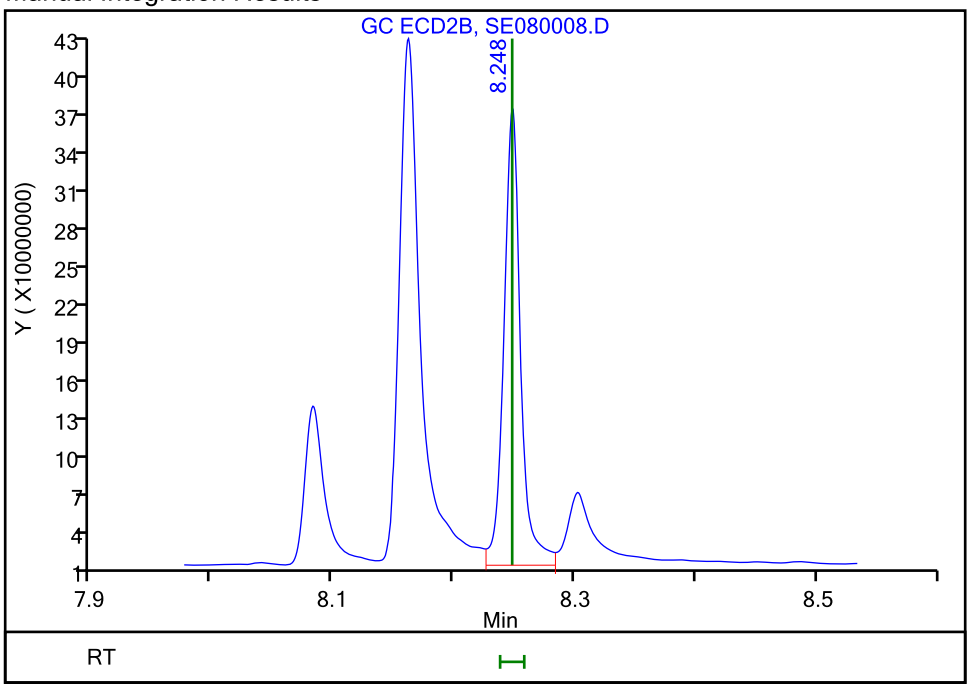
Processing Integration Results

RT: 8.25
Area: 339033784
Amount: 0.079521
Amount Units: ug/ml



Manual Integration Results

RT: 8.25
Area: 344721192
Amount: 0.081127
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

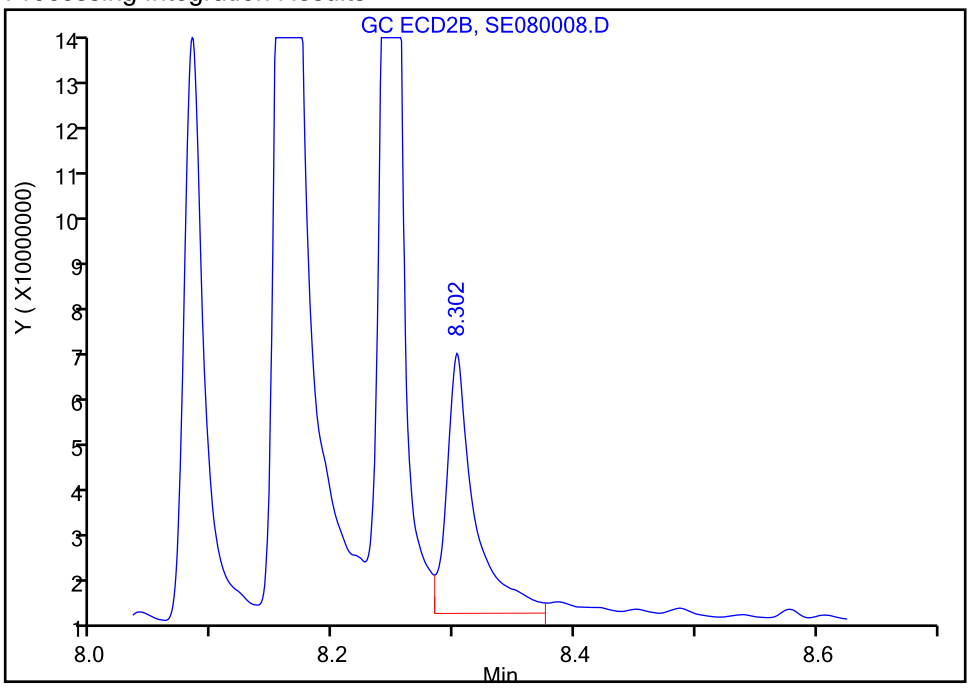
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Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

16 2,4-DB, CAS: 94-82-6

Signal: 2

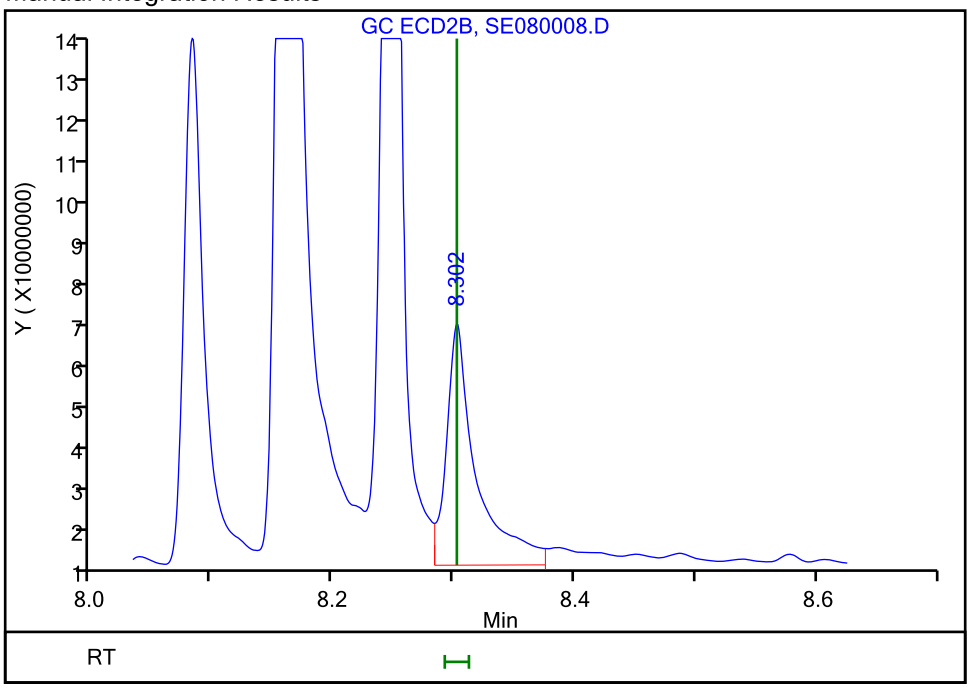
Processing Integration Results

RT: 8.30
Area: 87960984
Amount: 0.091948
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 97285447
Amount: 0.098638
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

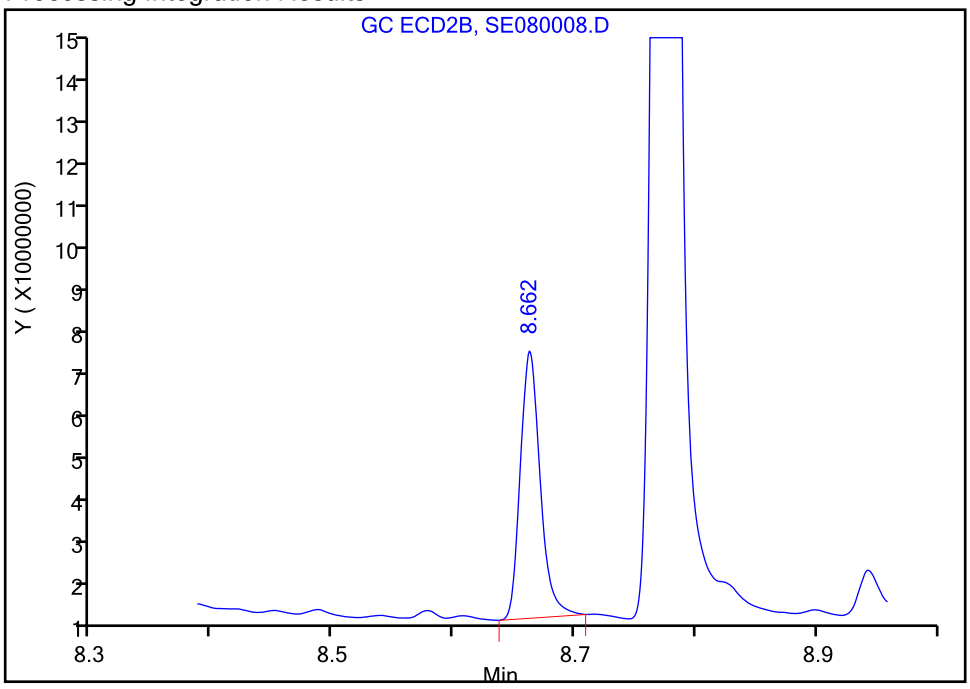
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Injection Date: 08-May-2018 13:16:38 Instrument ID: CSGS
Lims ID: ic h4
Client ID:
Operator ID: GEM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

18 Bentazon, CAS: 25057-89-0

Signal: 2

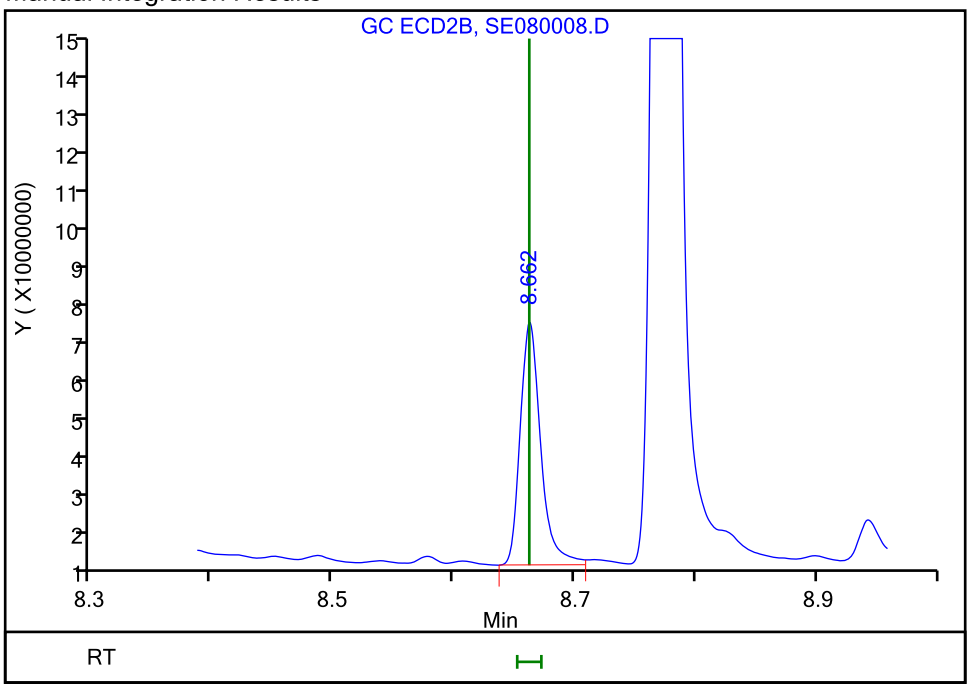
Processing Integration Results

RT: 8.66
Area: 72376111
Amount: 0.091160
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 74902105
Amount: 0.093165
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

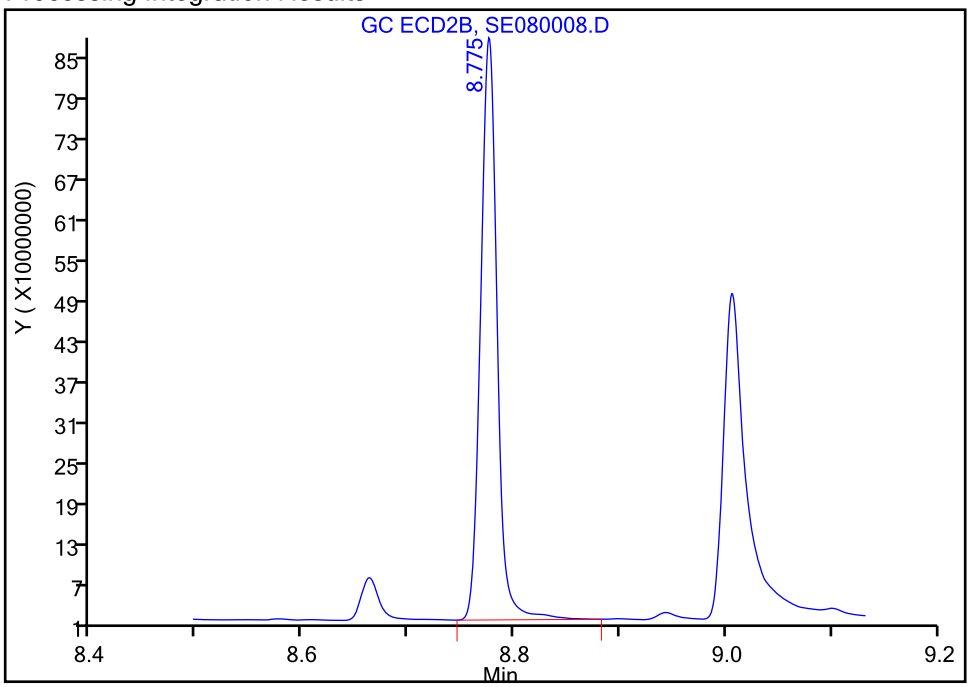
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Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

20 DCPA, CAS: 1861-32-1

Signal: 2

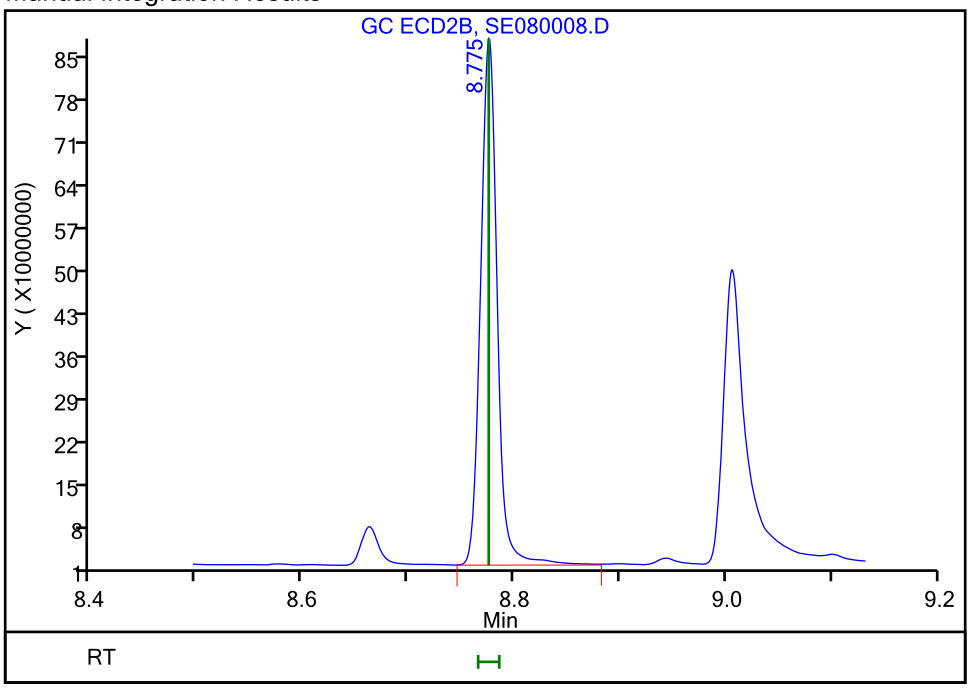
Processing Integration Results

RT: 8.78
Area: 941669698
Amount: 0.096297
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 947740711
Amount: 0.096500
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

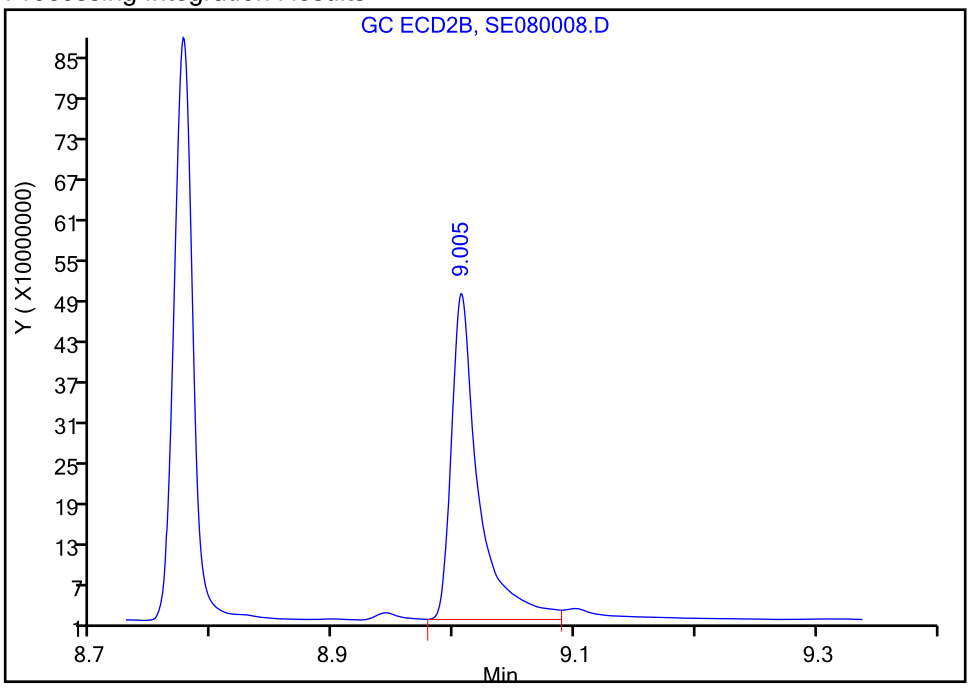
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080008.D				
Injection Date:	08-May-2018 13:16:38	Instrument ID:	CSGS		
Lims ID:	ic h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

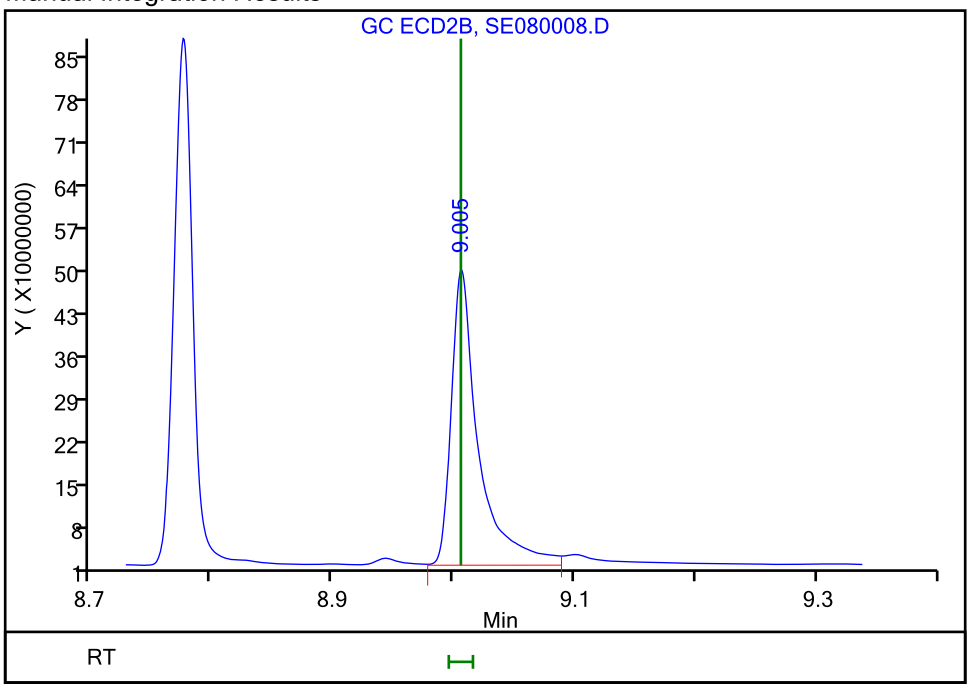
Processing Integration Results

RT: 9.01
Area: 751443253
Amount: 0.084403
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 759779337
Amount: 0.076880
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:10:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D
Lims ID: ic h3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-May-2018 13:36:16 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-009
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:32 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:19:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	25290814	0.0500	0.0483	
2	2.632	2.632	0.000	71378402	0.0500	0.0443	
						RPD = 8.58	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	5120223	NC	NC	
2	5.101	5.102	-0.001	27211487	NC	NC	
						RPD = 3.92	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	55102499	NC	NC	
2	5.776	5.776	0.000	240010788	NC	NC	
						RPD = 1.48	
4 3,5-Dichlorobenzoic acid							
1	6.124	6.124	0.000	15117918	0.0500	0.0470	
2	6.116	6.116	0.000	82525138	0.0500	0.0459	
						RPD = 2.39	
5 4-Nitrophenol							
1	6.254	6.253	0.001	4230904	0.0500	0.0458	
2	6.506	6.505	0.001	14245923	0.0500	0.0476	
						RPD = 4.02	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	9821711	0.0500	0.0464	
2	6.829	6.829	0.000	65002540	0.0500	0.0462	
						RPD = 0.58	
7 Dicamba							
1	6.721	6.720	0.001	24549090	0.0250	0.0228	
2	6.909	6.910	-0.001	113374207	0.0250	0.0226	
						RPD = 0.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.866	6.867	-0.001	2565927	5.00	5.99	
2	6.955	6.955	0.000	26339273	5.00	5.17	
						RPD = 14.76	
9 MCPA							
1	6.994	6.994	0.000	4373482	5.00	4.72	
2	7.154	7.155	-0.001	40478712	5.00	7.49	
						RPD = 45.31	
10 Dichlorprop							
1	7.181	7.180	0.001	13064380	0.0500	0.0471	
2	7.297	7.297	0.000	62424883	0.0500	0.0443	
						RPD = 6.13	
11 2,4-D							
1	7.331	7.326	0.005	13528651	0.0500	0.0447	
2	7.520	7.517	0.003	68918972	0.0500	0.0432	
						RPD = 3.38	
12 Pentachlorophenol							
1	7.674	7.674	0.000	60060646	0.0125	0.0112	
2	7.713	7.714	-0.001	214964113	0.0125	0.0114	
						RPD = 2.42	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	20302486	0.0125	0.0108	
2	7.846	7.846	0.000	78639731	0.0125	0.0106	
						RPD = 1.56	
14 Chloramben							
1	7.860	7.855	0.005	60085684	0.0500	0.0468	
2	8.164	8.162	0.002	240336393	0.0500	0.0427	
						RPD = 9.03	
15 2,4,5-T							
1	7.933	7.929	0.004	26566988	0.0125	0.0121	
2	8.086	8.083	0.003	68256754	0.0125	0.0103	
						RPD = 16.45	
16 2,4-DB							
1	8.178	8.175	0.003	5762851	0.0500	0.0472	
2	8.305	8.302	0.003	46624287	0.0500	0.0473	
						RPD = 0.23	
17 Dinoseb							
1	8.225	8.224	0.001	53295649	0.0500	0.0435	
2	8.248	8.248	0.000	154960345	0.0500	0.0402	
						RPD = 8.01	
18 Bentazon							
1	8.301	8.300	0.001	13719455	0.0500	0.0477	
2	8.663	8.662	0.001	35565067	0.0500	0.0442	
						RPD = 7.56	
19 Picloram							
1	8.533	8.529	0.004	94759287	0.0500	0.0468	
2	9.009	9.005	0.004	328532437	0.0500	0.0386	
						RPD = 19.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.624	8.623	0.001	151449071	0.0500	0.0460	
2	8.775	8.775	0.000	451881325	0.0500	0.0460	
						RPD = 0.05	
21 Acifluorfen							
1	9.667	9.666	0.001	97225812	0.0500	0.0468	
2	9.791	9.792	-0.001	248586919	0.0500	0.0440	
						RPD = 6.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-3_00015 Amount Added: 1.00 Units: mL

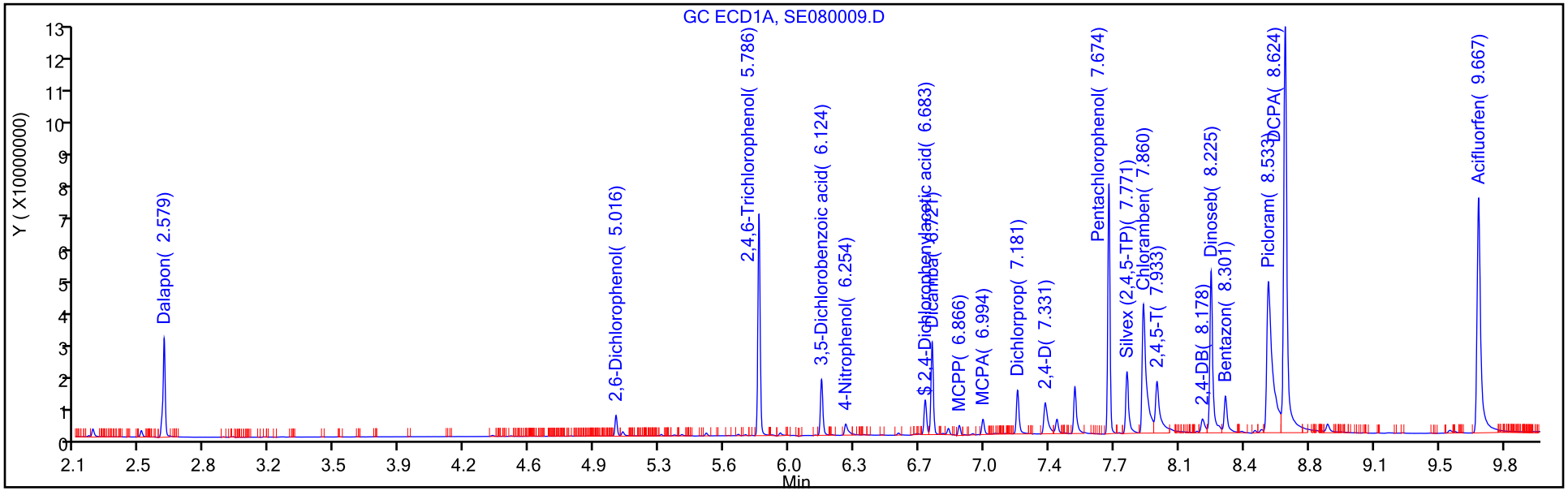
Report Date: 08-May-2018 16:25:34 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

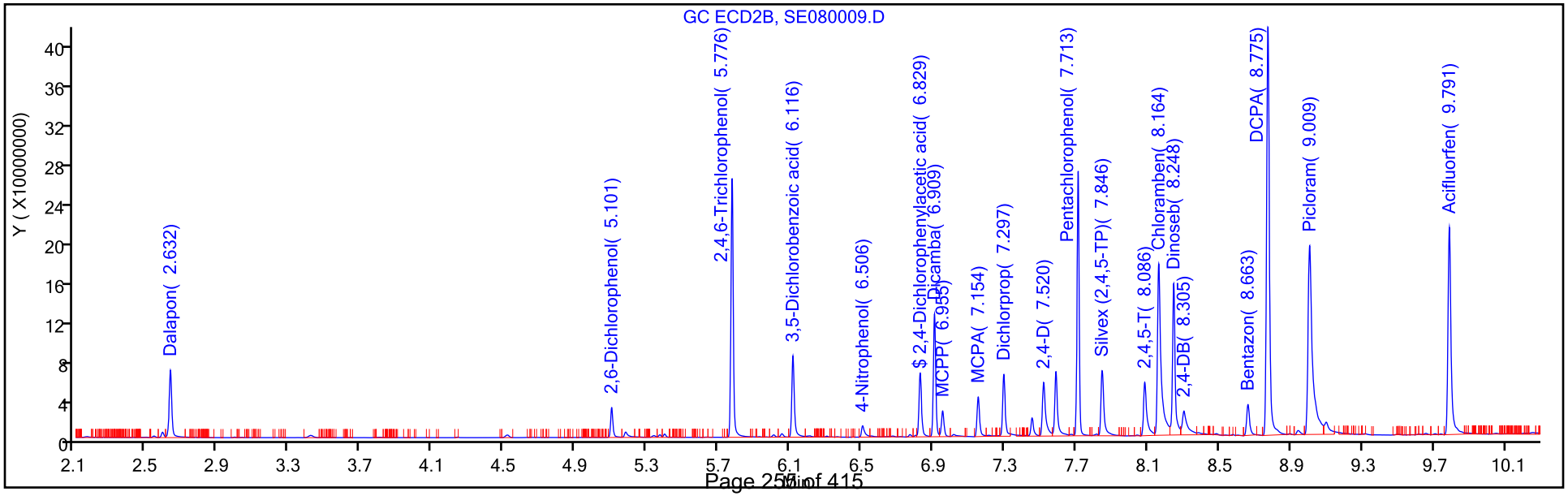
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080009.D

Injection Date:	08-May-2018 13:36:16	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080010.D
Lims ID: ic h2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-May-2018 13:55:52 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-010
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:38 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:10:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	13718735	0.0250	0.0262	
2	2.632	2.632	0.000	39932951	0.0250	0.0248	
						RPD = 5.50	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	2779258	NC	NC	
2	5.102	5.102	0.000	15274619	NC	NC	
						RPD = 0.57	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	27400593	NC	NC	
2	5.776	5.776	0.000	122077658	NC	NC	
						RPD = 3.74	
4 3,5-Dichlorobenzoic acid							
1	6.125	6.124	0.001	8148129	0.0250	0.0254	
2	6.118	6.116	0.002	44015926	0.0250	0.0245	
						RPD = 3.44	
5 4-Nitrophenol							
1	6.258	6.253	0.005	2307008	0.0250	0.0250	
2	6.511	6.505	0.006	7416225	0.0250	0.0248	
						RPD = 0.61	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	5538443	0.0250	0.0262	
2	6.830	6.829	0.001	34723127	0.0250	0.0247	
						RPD = 5.99	
7 Dicamba							
1	6.720	6.720	0.000	13200023	0.0125	0.0123	
2	6.910	6.910	0.000	58578625	0.0125	0.0117	
						RPD = 4.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	1288891	2.50	3.49	
2	6.955	6.955	0.000	16319936	2.50	2.87	
						RPD = 19.60	
9 MCPA							
1	6.995	6.994	0.001	2137688	2.50	2.31	
2	7.155	7.155	0.000	24668652	2.50	4.72	
						RPD = 68.67	
10 Dichlorprop							
1	7.182	7.180	0.002	6871862	0.0250	0.0248	
2	7.298	7.297	0.001	33672808	0.0250	0.0239	
						RPD = 3.61	
11 2,4-D							
1	7.337	7.326	0.011	6740238	0.0250	0.0223	
2	7.524	7.517	0.007	35695833	0.0250	0.0224	
						RPD = 0.50	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	29521455	0.006250	0.005483	
2	7.713	7.714	-0.001	107509203	0.006250	0.005716	
						RPD = 4.15	
13 Silvex (2,4,5-TP)							
1	7.771	7.769	0.002	9932955	0.006250	0.005287	
2	7.850	7.846	0.004	39284572	0.006250	0.005315	
						RPD = 0.53	
14 Chloramben							
1	7.864	7.855	0.009	28147981	0.0250	0.0279	
2	8.167	8.162	0.005	117512235	0.0250	0.0209	
						RPD = 28.91	
15 2,4,5-T							
1	7.935	7.929	0.006	13893399	0.006250	0.006333	
2	8.090	8.083	0.007	34680183	0.006250	0.005218	
						RPD = 19.31	
16 2,4-DB							
1	8.182	8.175	0.007	2666490	0.0250	0.0295	
2	8.308	8.302	0.006	26051520	0.0250	0.0264	
						RPD = 10.95	
17 Dinoseb							
1	8.225	8.224	0.001	27141219	0.0250	0.0222	
2	8.250	8.248	0.002	77307007	0.0250	0.0234	
						RPD = 5.56	
18 Bentazon							
1	8.304	8.300	0.004	6986266	0.0250	0.0243	
2	8.665	8.662	0.003	18151512	0.0250	0.0226	
						RPD = 7.33	
19 Picloram							
1	8.538	8.529	0.009	44134008	0.0250	0.0275	
2	9.011	9.005	0.006	155603121	0.0250	0.0232	
						RPD = 16.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.625	8.623	0.002	77163736	0.0250	0.0234	
2	8.776	8.775	0.001	226645361	0.0250	0.0231	
						RPD = 1.52	
21 Acifluorfen							
1	9.668	9.666	0.002	48982390	0.0250	0.0268	
2	9.795	9.792	0.003	120359495	0.0250	0.0266	
						RPD = 0.57	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-2_00015 Amount Added: 1.00 Units: mL

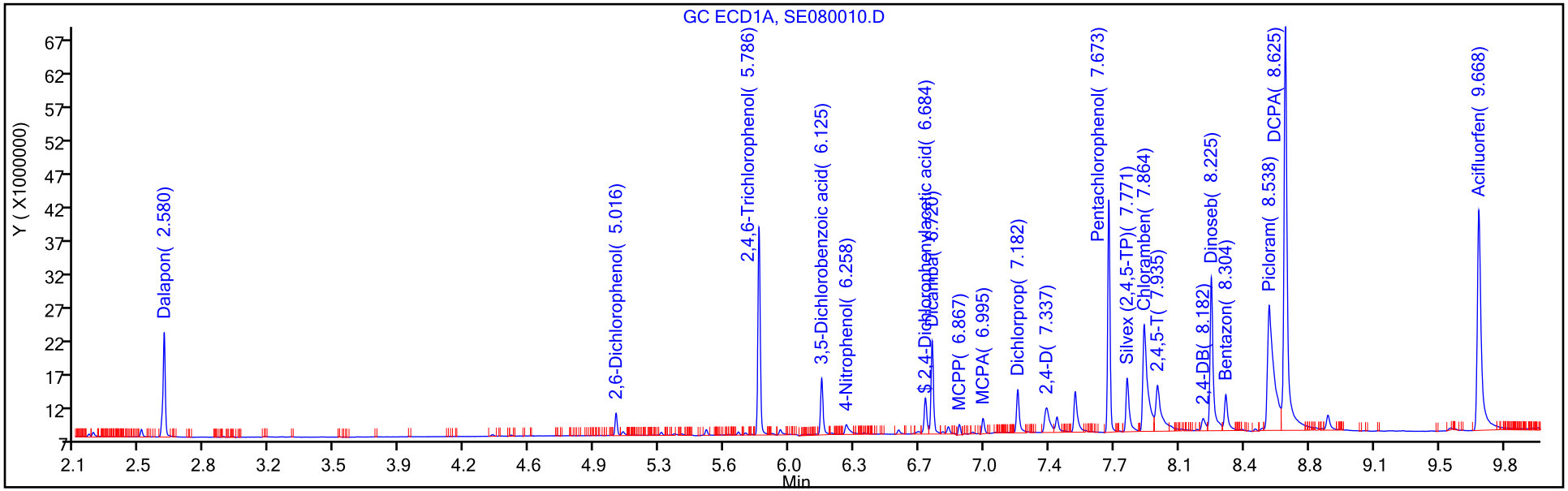
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TestAmerica Savannah

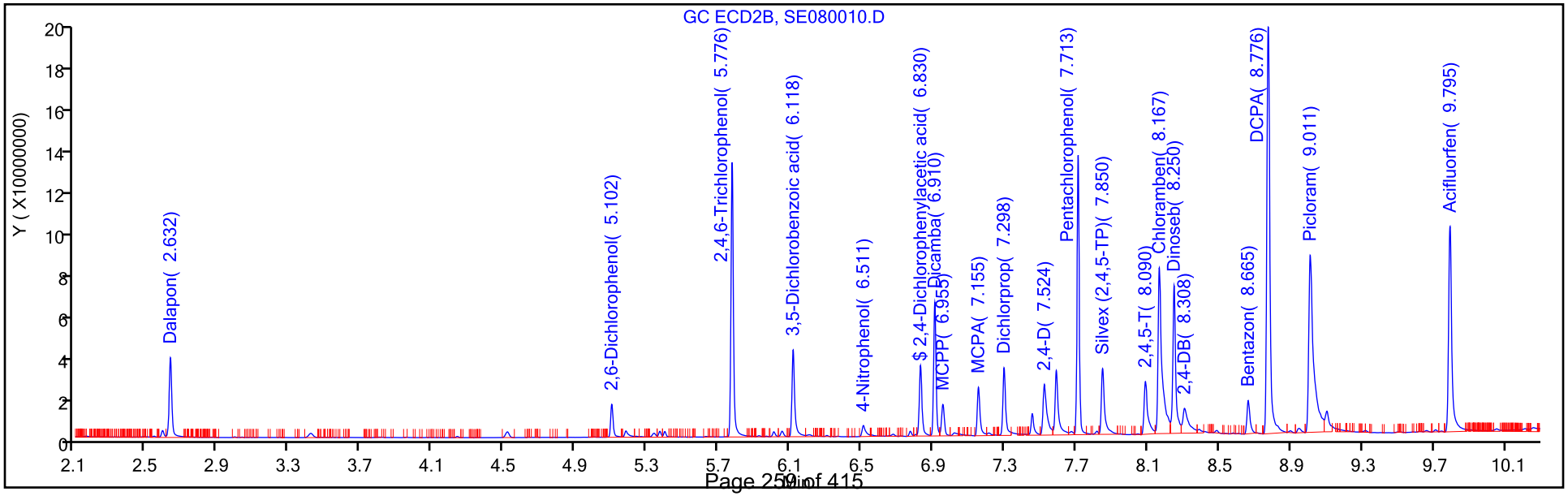
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080010.D

Injection Date:	08-May-2018 13:55:52	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Lims ID: ic h1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2018 14:15:28 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-011
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:25:44 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:11:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	5906230	0.0100	0.0113	
2	2.633	2.632	0.001	17983150	0.0100	0.0112	
						RPD = 1.00	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	1242849	NC	NC	
2	5.103	5.102	0.001	6728448	NC	NC	
						RPD = 2.08	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	10511883	NC	NC	
2	5.776	5.776	0.000	47802186	NC	NC	
						RPD = 5.78	
4 3,5-Dichlorobenzoic acid							
1	6.126	6.124	0.002	3202229	0.0100	0.0100	
2	6.119	6.116	0.003	18377513	0.0100	0.0102	
						RPD = 2.62	
5 4-Nitrophenol							Ma
1	6.263	6.253	0.010	711986	0.0100	0.007701	a
2	6.516	6.505	0.011	2506531	0.0100	0.008382	M
						RPD = 8.47	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	2325909	0.0100	0.0110	
2	6.831	6.829	0.002	14359475	0.0100	0.0102	
						RPD = 7.53	
7 Dicamba							
1	6.721	6.720	0.001	5346345	0.005000	0.004964	
2	6.911	6.910	0.001	23620770	0.005000	0.004716	
						RPD = 5.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.868	6.867	0.001	383358	1.00	1.63	
2	6.956	6.955	0.001	7884133	1.00	0.9383	
						RPD = 53.96	
9 MCPA							
1	6.996	6.994	0.002	684536	1.00	0.7393	
2	7.156	7.155	0.001	12132999	1.00	2.39	
						RPD = 105.59	
10 Dichlorprop							
1	7.182	7.180	0.002	2699462	0.0100	0.009728	
2	7.299	7.297	0.002	15301912	0.0100	0.0109	
						RPD = 10.94	
11 2,4-D							a
1	7.346	7.326	0.020	2400934	0.0100	0.007940	a
2	7.531	7.517	0.014	14551198	0.0100	0.009131	a
						RPD = 13.96	
12 Pentachlorophenol							
1	7.674	7.674	0.000	11008502	0.002500	0.002045	
2	7.713	7.714	-0.001	41165516	0.002500	0.002189	
						RPD = 6.80	
13 Silvex (2,4,5-TP)							
1	7.776	7.769	0.007	3531202	0.002500	0.001880	
2	7.851	7.846	0.005	16213772	0.002500	0.002194	
						RPD = 15.42	
14 Chloramben							
1	7.868	7.855	0.013	10146304	0.0100	0.0173	
2	8.171	8.162	0.009	45179417	0.0100	0.008031	
						RPD = 72.95	
15 2,4,5-T							
1	7.937	7.929	0.008	5683855	0.002500	0.002591	
2	8.089	8.083	0.006	14207297	0.002500	0.002138	
						RPD = 19.17	
16 2,4-DB							Ma
1	8.185	8.175	0.010	957156	0.0100	0.0196	M
2	8.312	8.302	0.010	10871976	0.0100	0.0110	a
						RPD = 56.23	
17 Dinoseb							
1	8.227	8.224	0.003	10802376	0.0100	0.008826	
2	8.251	8.248	0.003	30077804	0.0100	0.0133	
						RPD = 40.12	
18 Bentazon							
1	8.306	8.300	0.006	3164677	0.0100	0.0110	
2	8.665	8.662	0.003	7803979	0.0100	0.009707	
						RPD = 12.54	
19 Picloram							a
1	8.546	8.529	0.017	16249913	0.0100	0.0167	a
2	9.014	9.005	0.009	57128370	0.0100	0.0144	a
						RPD = 14.53	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.626	8.623	0.003	28939470	0.0100	0.008788	
2	8.777	8.775	0.002	86672796	0.0100	0.008825	
						RPD = 0.42	
21 Acifluorfen							
1	9.670	9.666	0.004	18199991	0.0100	0.0138	
2	9.794	9.792	0.002	40645245	0.0100	0.0156	
						RPD = 11.77	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

SGHERB-1_00016 Amount Added: 1.00 Units: mL

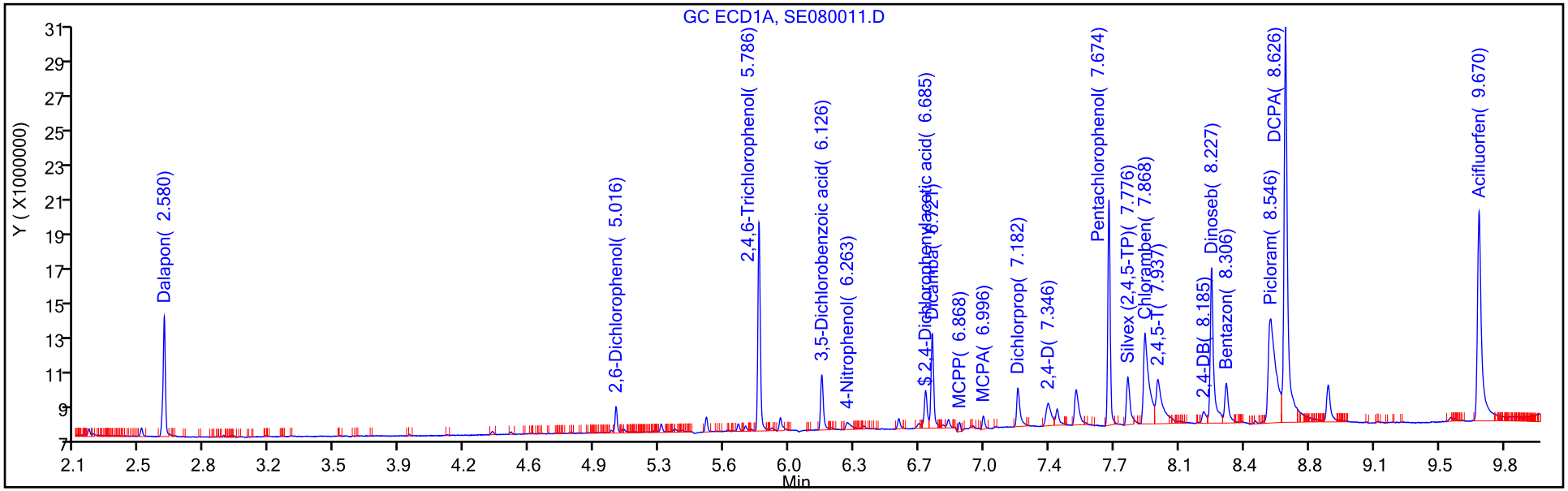
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TestAmerica Savannah

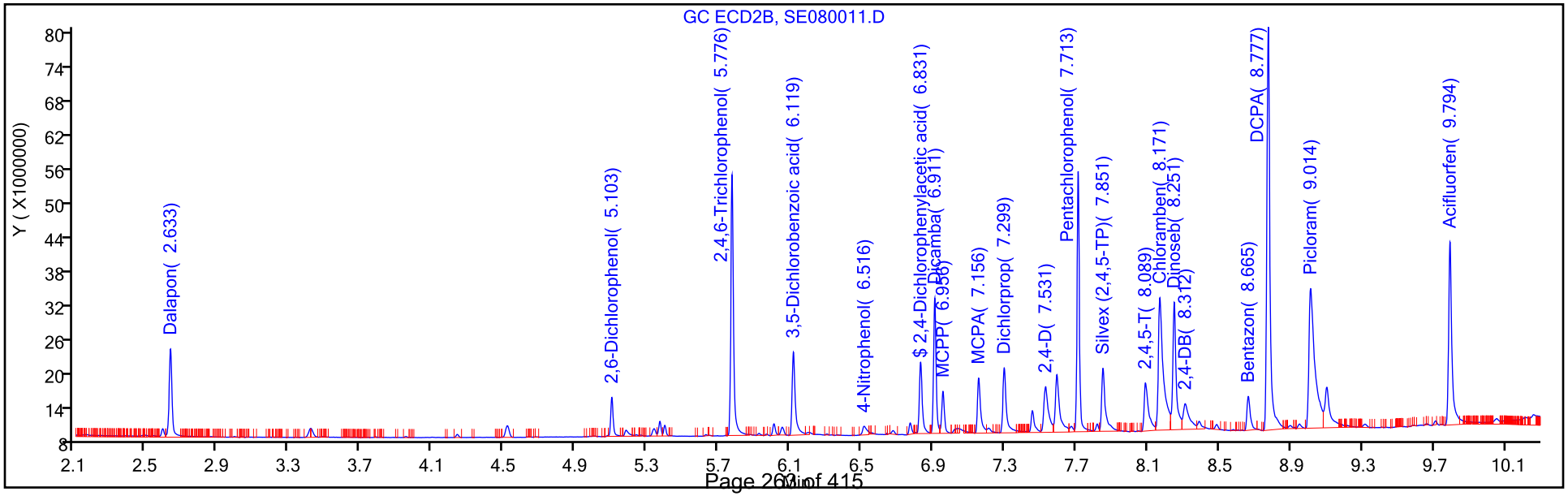
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Injection Date:	08-May-2018 14:15:28	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ic h1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

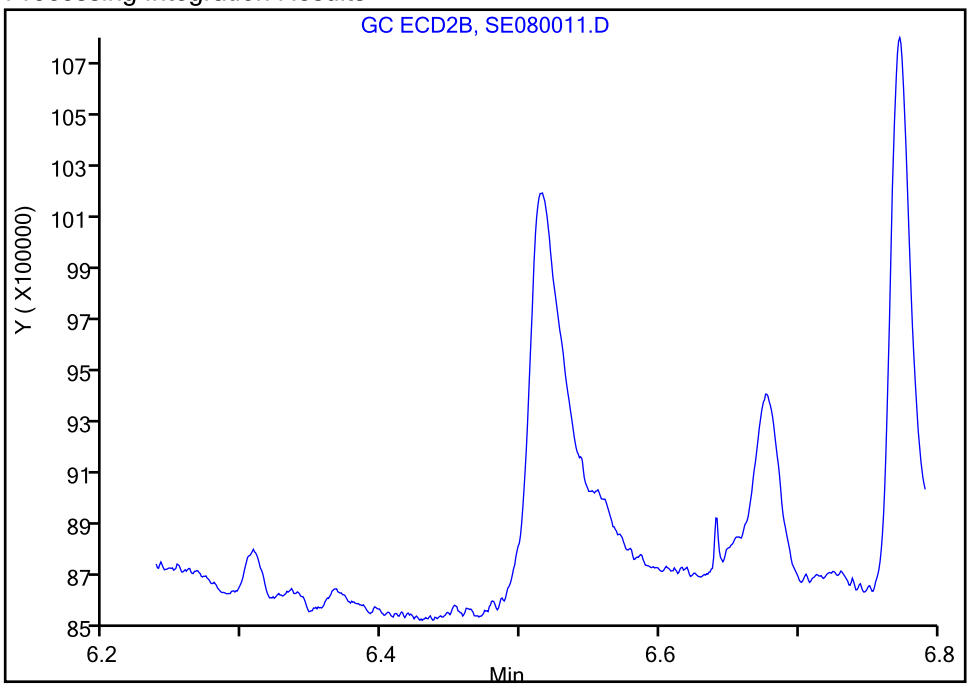
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

5 4-Nitrophenol, CAS: 100-02-7

Signal: 2

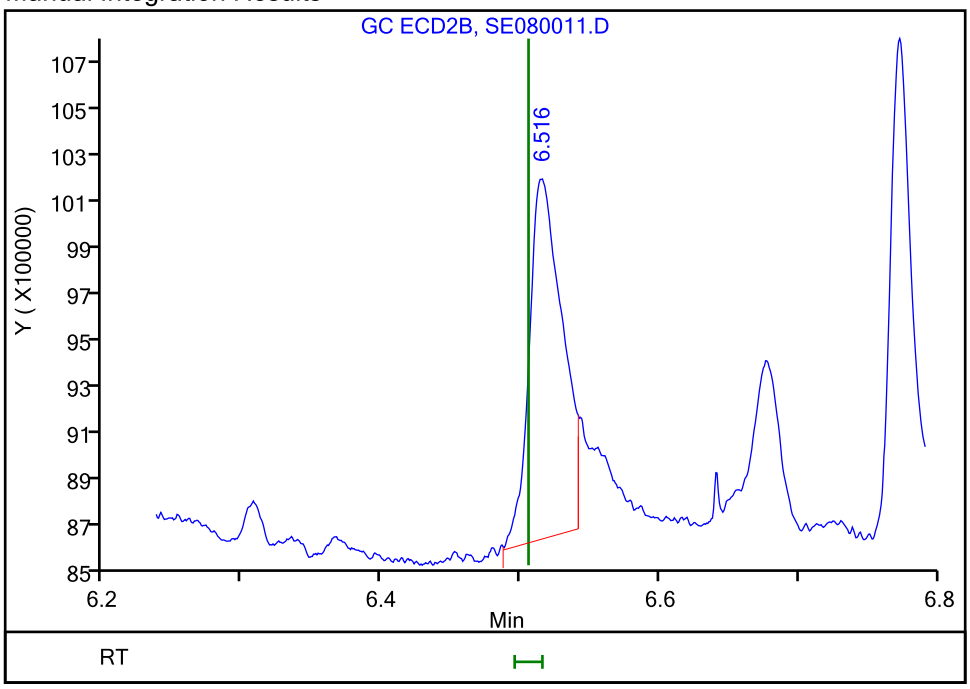
Processing Integration Results

RT: 6.51
Area: 0
Amount: 0.007640
Amount Units: ug/ml



Manual Integration Results

RT: 6.52
Area: 2506531
Amount: 0.008382
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:20
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

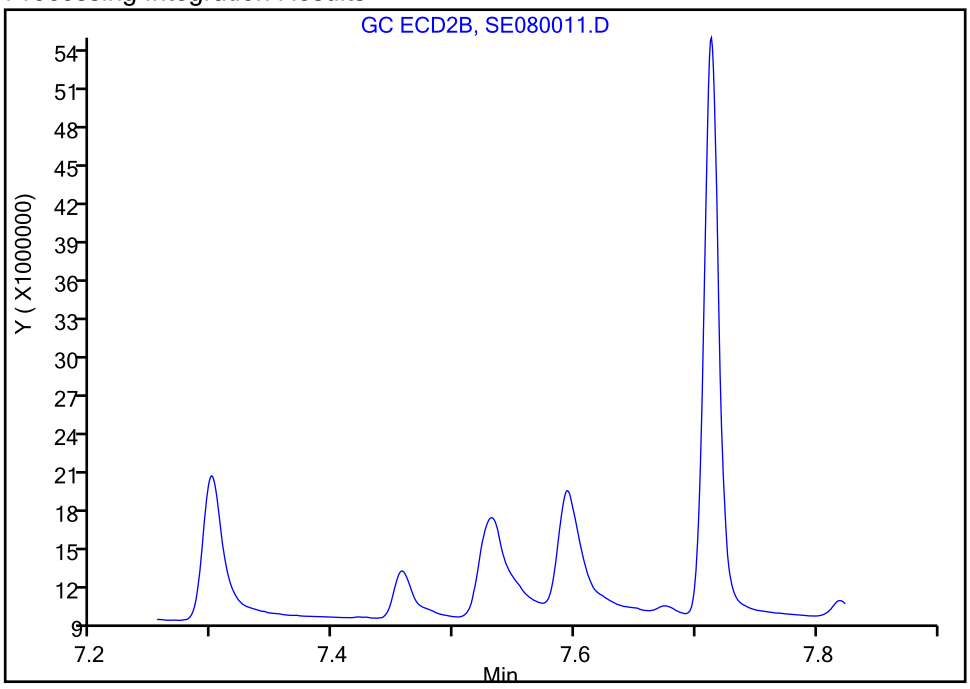
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7

Signal: 2

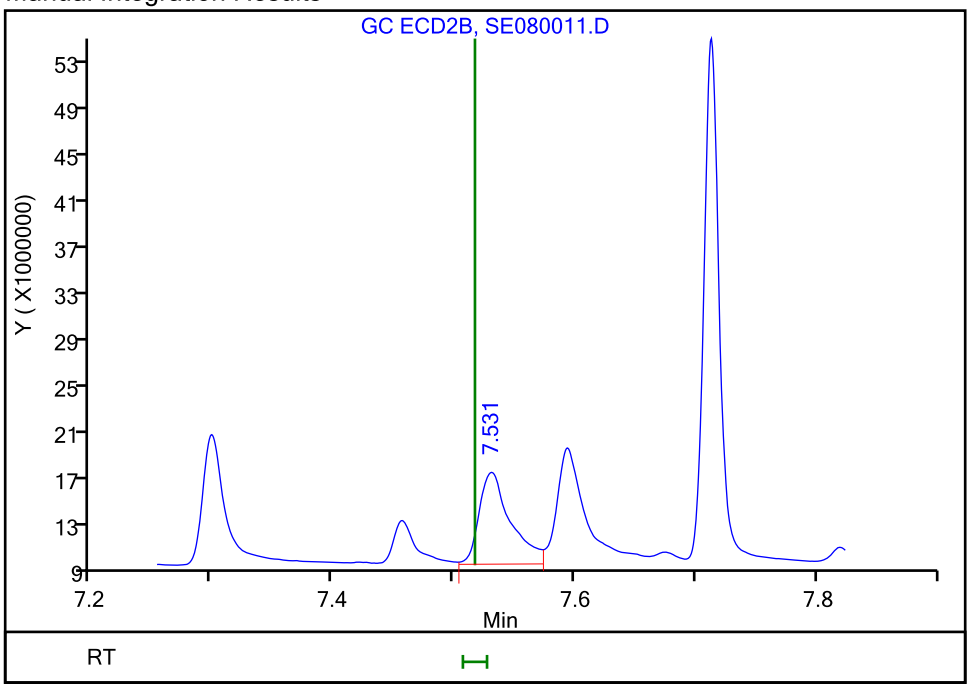
Not Detected
Expected RT: 7.52

Processing Integration Results



Manual Integration Results

RT: 7.53
Area: 14551198
Amount: 0.009131
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:16
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

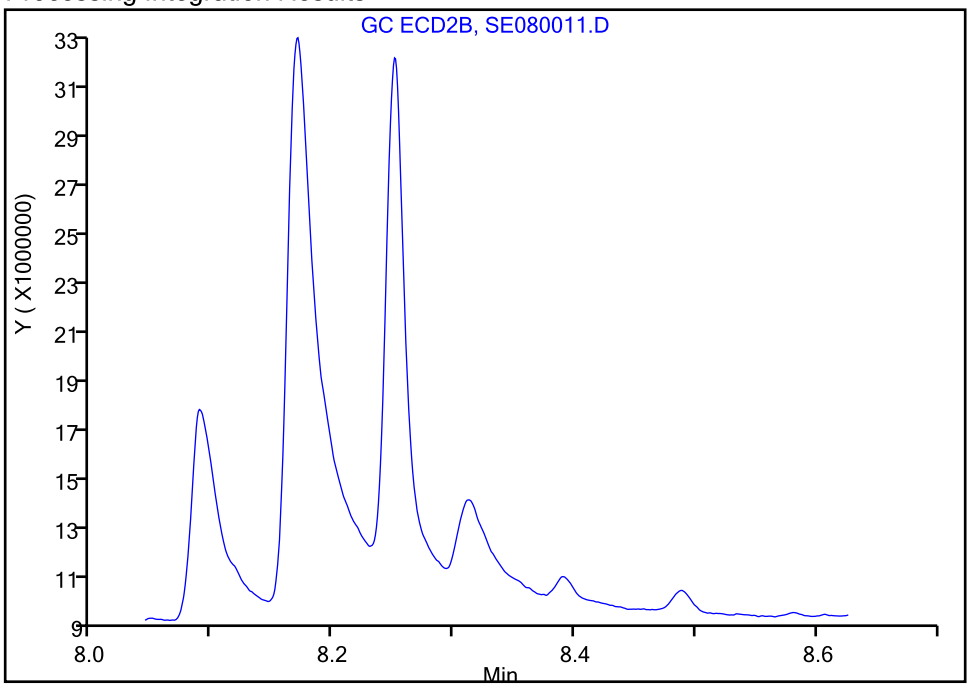
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

16 2,4-DB, CAS: 94-82-6

Signal: 2

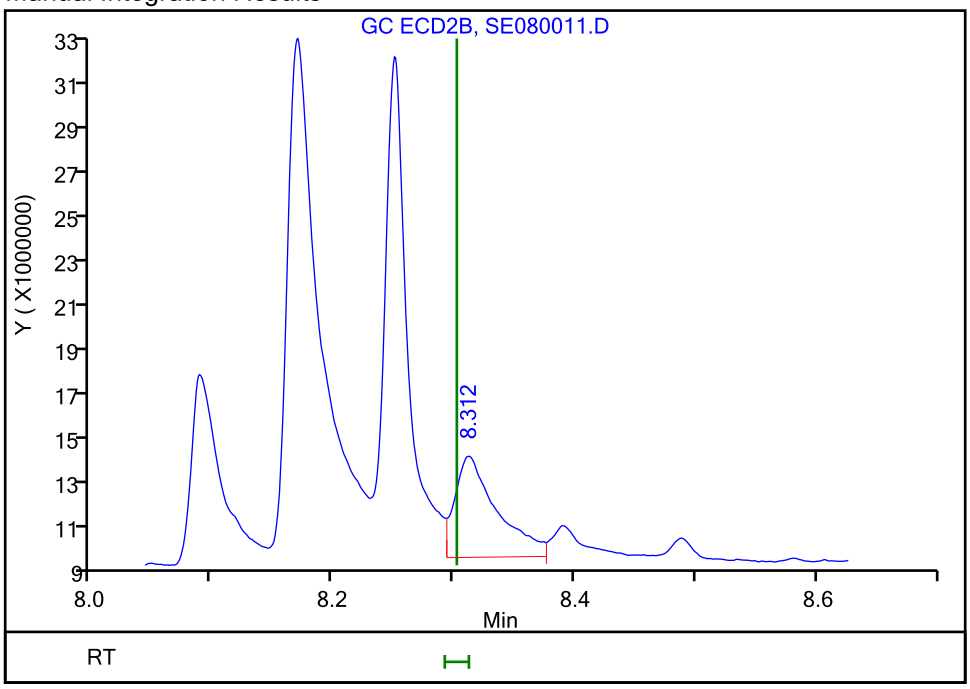
Processing Integration Results

RT: 8.30
Area: 0
Amount: 0.021175
Amount Units: ug/ml



Manual Integration Results

RT: 8.31
Area: 10871976
Amount: 0.011023
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:35
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

TestAmerica Savannah

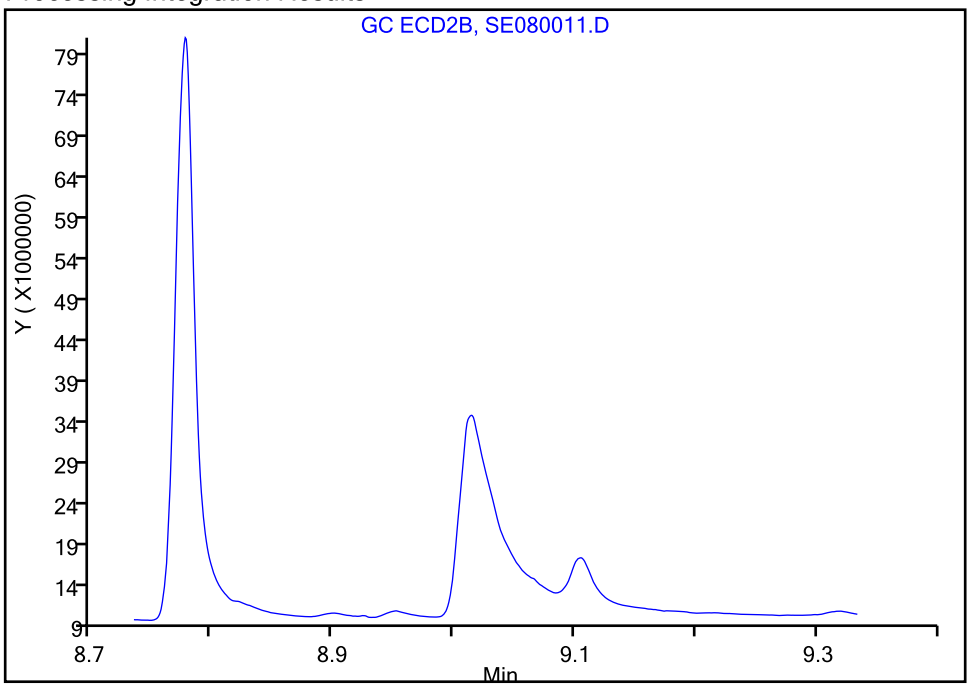
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D
Injection Date: 08-May-2018 14:15:28 Instrument ID: CSGS
Lims ID: ic h1
Client ID:
Operator ID: GEM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

19 Picloram, CAS: 1918-02-1

Signal: 2

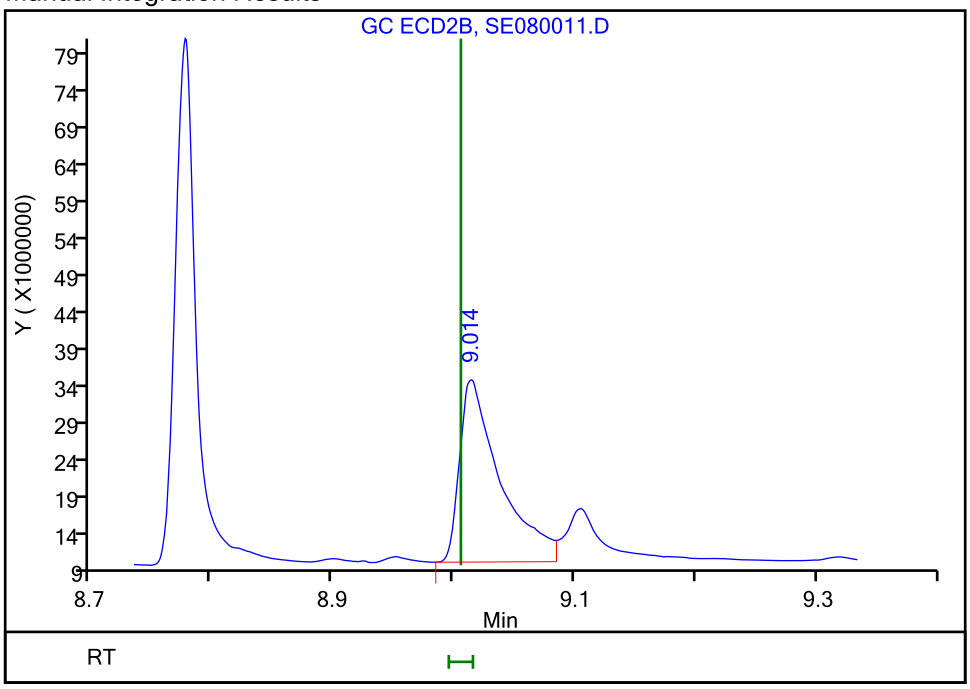
Not Detected
Expected RT: 9.01

Processing Integration Results



Manual Integration Results

RT: 9.01
Area: 57128370
Amount: 0.014446
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:11:45
Audit Action: Assigned Compound ID Audit Reason: Baseline Smoothing

Calibration / Dalapon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

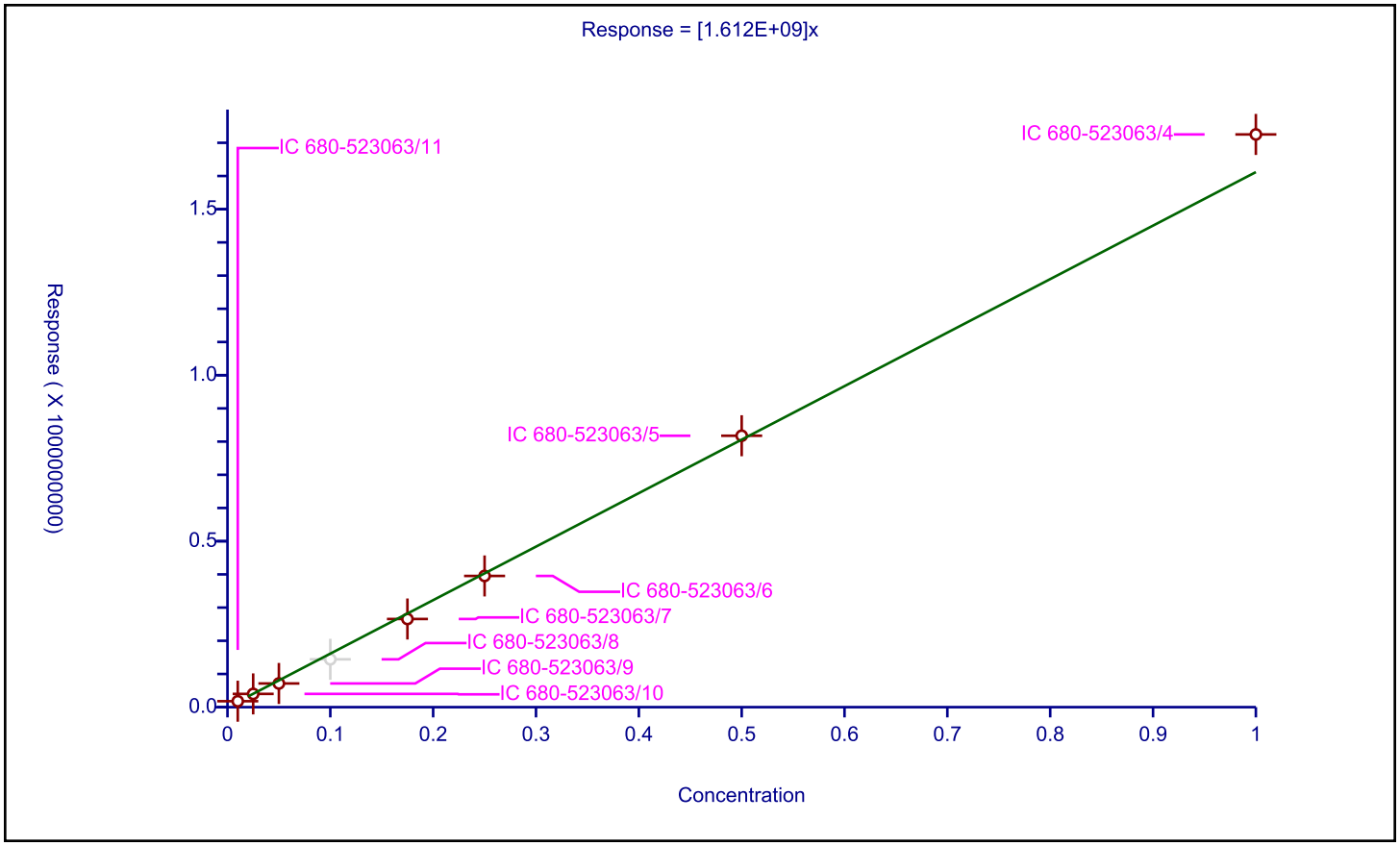
Curve Coefficients

Intercept:	0
Slope:	1.612E+09

Error Coefficients

Standard Error:	47300000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	17983150.0			1798315000.0	Y
2	IC 680-523063/10	0.025	39932951.0			1597318040.0	Y
3	IC 680-523063/9	0.05	71378402.0			1427568040.0	Y
4	IC 680-523063/8	0.1	144107629.0			1441076290.0	N
5	IC 680-523063/7	0.175	265586882.0			1517639325.71429	Y
6	IC 680-523063/6	0.25	395304302.0			1581217208.0	Y
7	IC 680-523063/5	0.5	817578391.0			1635156782.0	Y
8	IC 680-523063/4	1.0	1725206867.0			1725206867.0	Y



Calibration / 3,5-Dichlorobenzoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

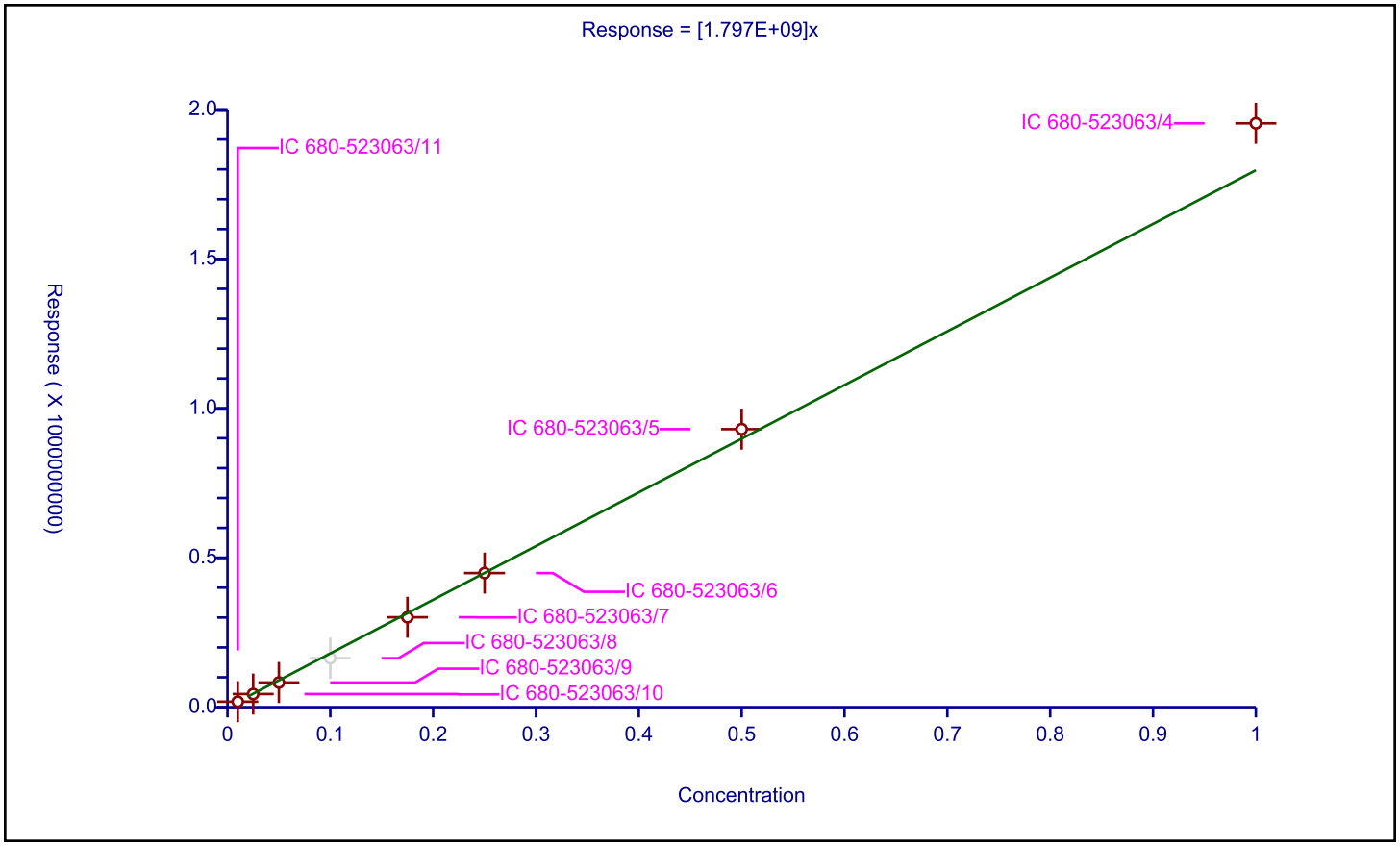
Curve Coefficients

Intercept:	0
Slope:	1.797E+09

Error Coefficients

Standard Error:	65800000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	18377513.0			1837751300.0	Y
2	IC 680-523063/10	0.025	44015926.0			1760637040.0	Y
3	IC 680-523063/9	0.05	82525138.0			1650502760.0	Y
4	IC 680-523063/8	0.1	163818500.0			1638185000.0	N
5	IC 680-523063/7	0.175	300893318.0			1719390388.57143	Y
6	IC 680-523063/6	0.25	448811682.0			1795246728.0	Y
7	IC 680-523063/5	0.5	930526789.0			1861053578.0	Y
8	IC 680-523063/4	1.0	1954171685.0			1954171685.0	Y



Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

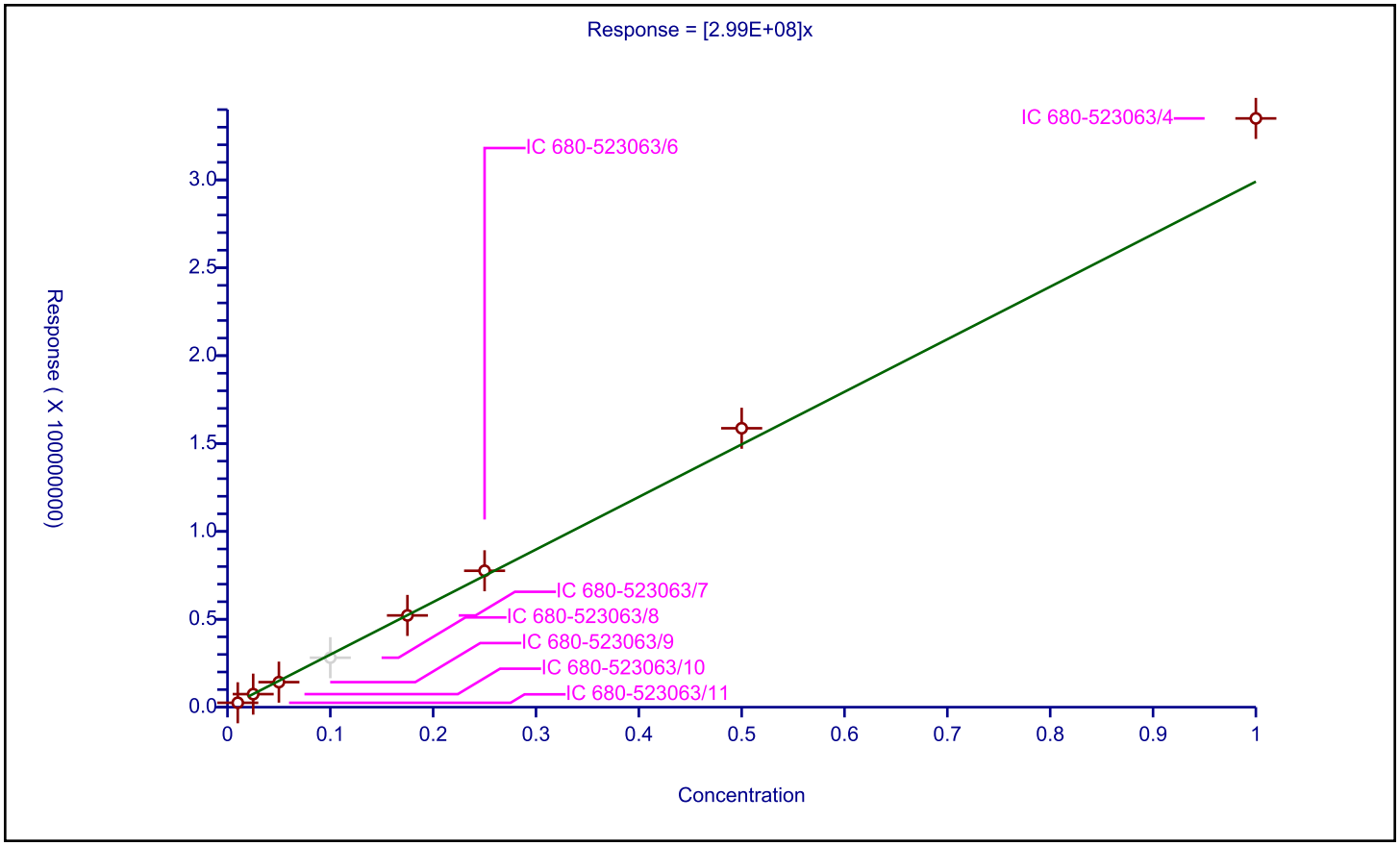
Curve Coefficients

Intercept:	0
Slope:	2.99E+08

Error Coefficients

Standard Error:	15200000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	2506531.0			250653100.0	Y
2	IC 680-523063/10	0.025	7416225.0			296649000.0	Y
3	IC 680-523063/9	0.05	14245923.0			284918460.0	Y
4	IC 680-523063/8	0.1	28145758.0			281457580.0	N
5	IC 680-523063/7	0.175	52193224.0			298246994.285714	Y
6	IC 680-523063/6	0.25	77606749.0			310426996.0	Y
7	IC 680-523063/5	0.5	158696116.0			317392232.0	Y
8	IC 680-523063/4	1.0	334991246.0			334991246.0	Y



Calibration / 2,4-Dichlorophenylacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

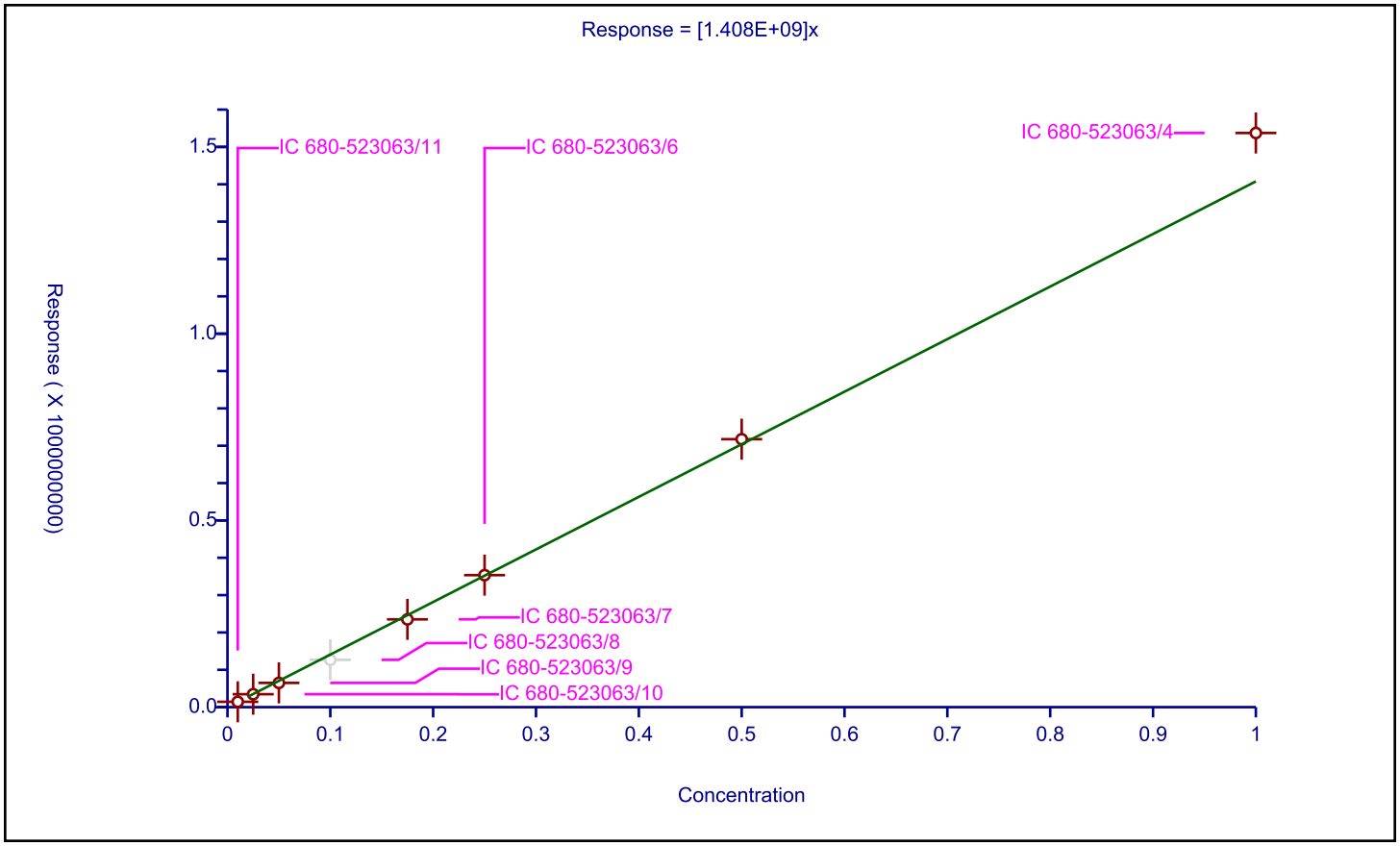
Curve Coefficients

Intercept:	0
Slope:	1.408E+09

Error Coefficients

Standard Error:	53400000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	14359475.0			1435947500.0	Y
2	IC 680-523063/10	0.025	34723127.0			1388925080.0	Y
3	IC 680-523063/9	0.05	65002540.0			1300050800.0	Y
4	IC 680-523063/8	0.1	126698158.0			1266981580.0	N
5	IC 680-523063/7	0.175	235040238.0			1343087074.28571	Y
6	IC 680-523063/6	0.25	353488120.0			1413952480.0	Y
7	IC 680-523063/5	0.5	717491043.0			1434982086.0	Y
8	IC 680-523063/4	1.0	1537345376.0			1537345376.0	Y



Calibration / Dicamba

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

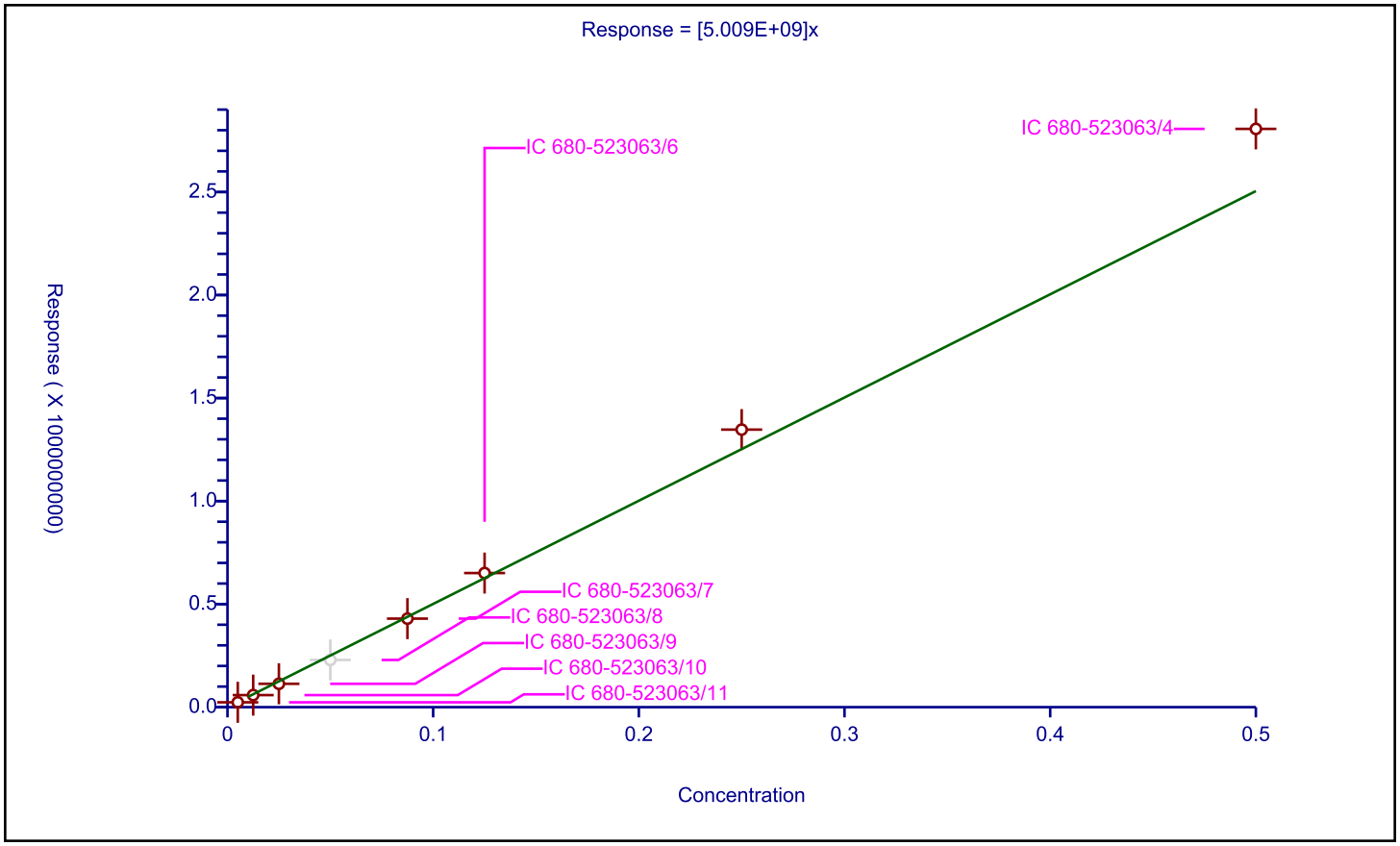
Curve Coefficients

Intercept:	0
Slope:	5.009E+09

Error Coefficients

Standard Error:	130000000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.005	23620770.0			4724154000.0	Y
2	IC 680-523063/10	0.0125	58578625.0			4686290000.0	Y
3	IC 680-523063/9	0.025	113374207.0			4534968280.0	Y
4	IC 680-523063/8	0.05	229111440.0			4582228800.0	N
5	IC 680-523063/7	0.0875	429620976.0			4909954011.42857	Y
6	IC 680-523063/6	0.125	650915415.0			5207323320.0	Y
7	IC 680-523063/5	0.25	1347001642.0			5388006568.0	Y
8	IC 680-523063/4	0.5	2806366329.0			5612732658.0	Y



Calibration / MCPP

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

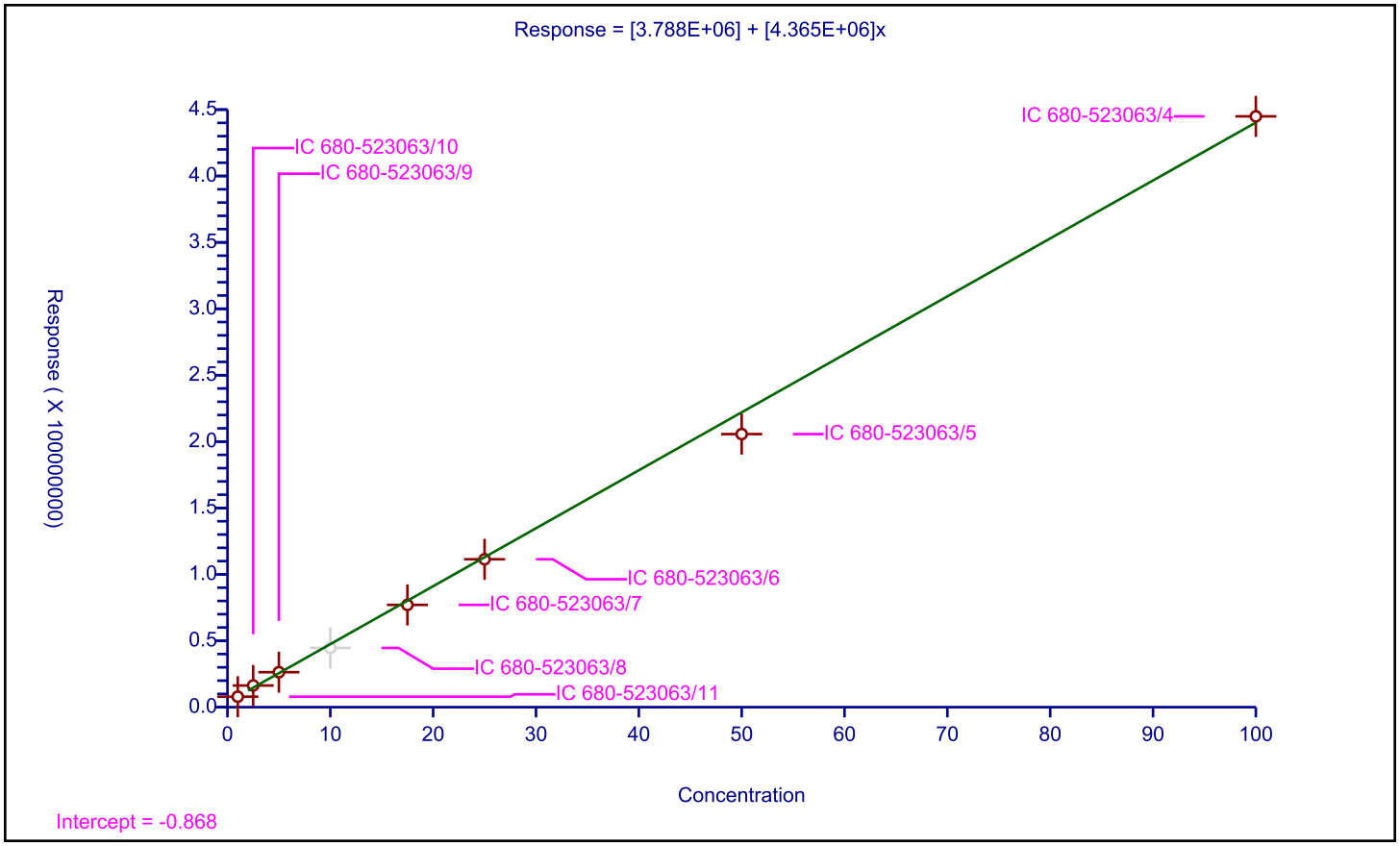
Curve Coefficients

Intercept:	3.788E+06
Slope:	4.365E+06

Error Coefficients

Standard Error:	7830000
Relative Standard Error:	8.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	7884133.0			7884133.0	Y
2	IC 680-523063/10	2.5	16319936.0			6527974.4	Y
3	IC 680-523063/9	5.0	26339273.0			5267854.6	Y
4	IC 680-523063/8	10.0	44613118.0			4461311.8	N
5	IC 680-523063/7	17.5	77011106.0			4400634.628571	Y
6	IC 680-523063/6	25.0	111381364.0			4455254.56	Y
7	IC 680-523063/5	50.0	205635557.0			4112711.14	Y
8	IC 680-523063/4	100.0	444937631.0			4449376.31	Y



Calibration / MCPA

Curve Type:	Quadratic
Weighting:	None
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

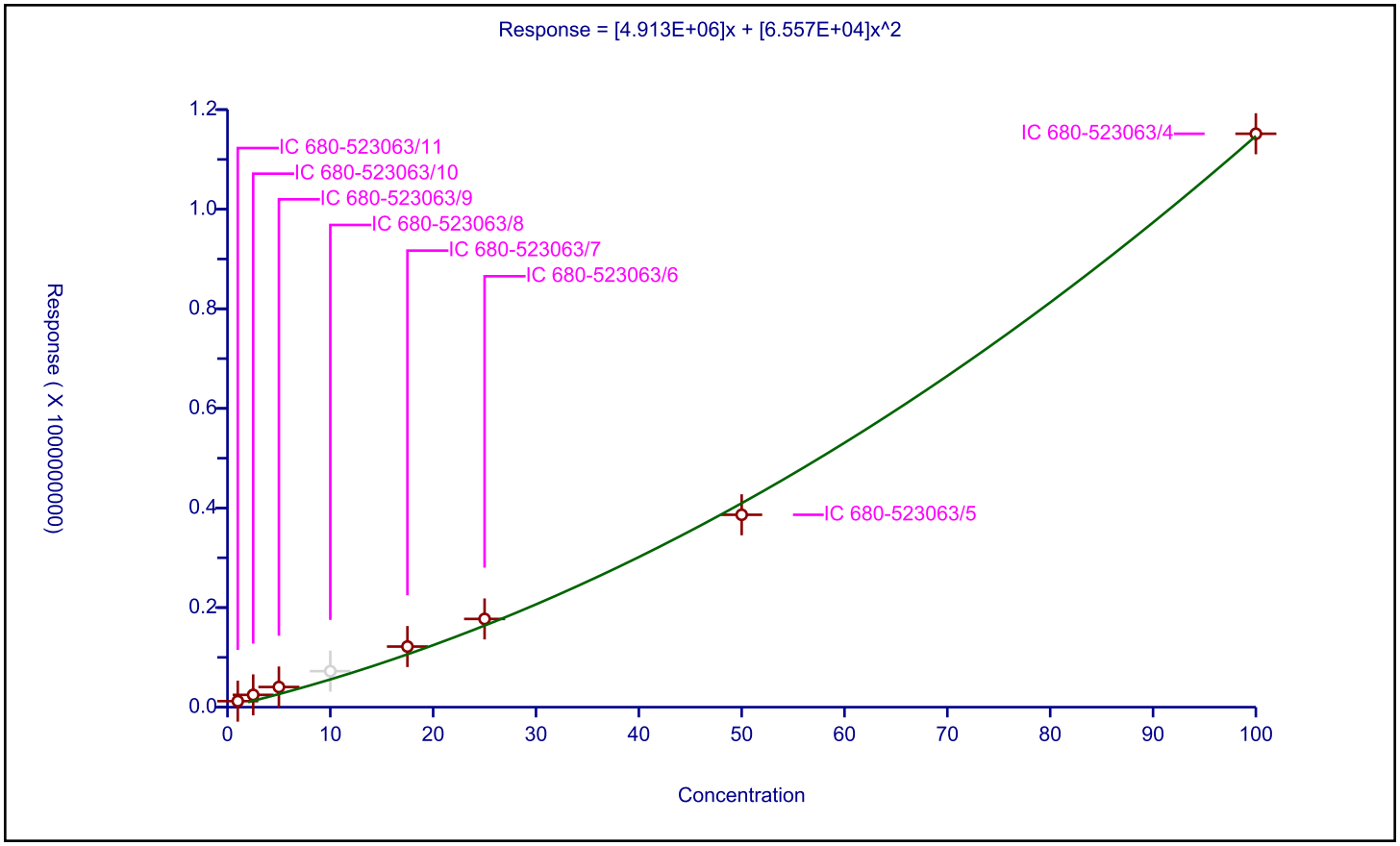
Curve Coefficients

Intercept:	0
Slope:	4.913E+06
Second Order:	6.557E+04

Error Coefficients

Standard Error:	16600000
Relative Standard Error:	77.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	1.0	12132999.0			12132999.0	Y
2	IC 680-523063/10	2.5	24668652.0			9867460.8	Y
3	IC 680-523063/9	5.0	40478712.0			8095742.4	Y
4	IC 680-523063/8	10.0	72306759.0			7230675.9	N
5	IC 680-523063/7	17.5	121752778.0			6957301.6	Y
6	IC 680-523063/6	25.0	177192173.0			7087686.92	Y
7	IC 680-523063/5	50.0	386345329.0			7726906.58	Y
8	IC 680-523063/4	100.0	1151515629.0			11515156.29	Y



Calibration / Dichlorprop

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

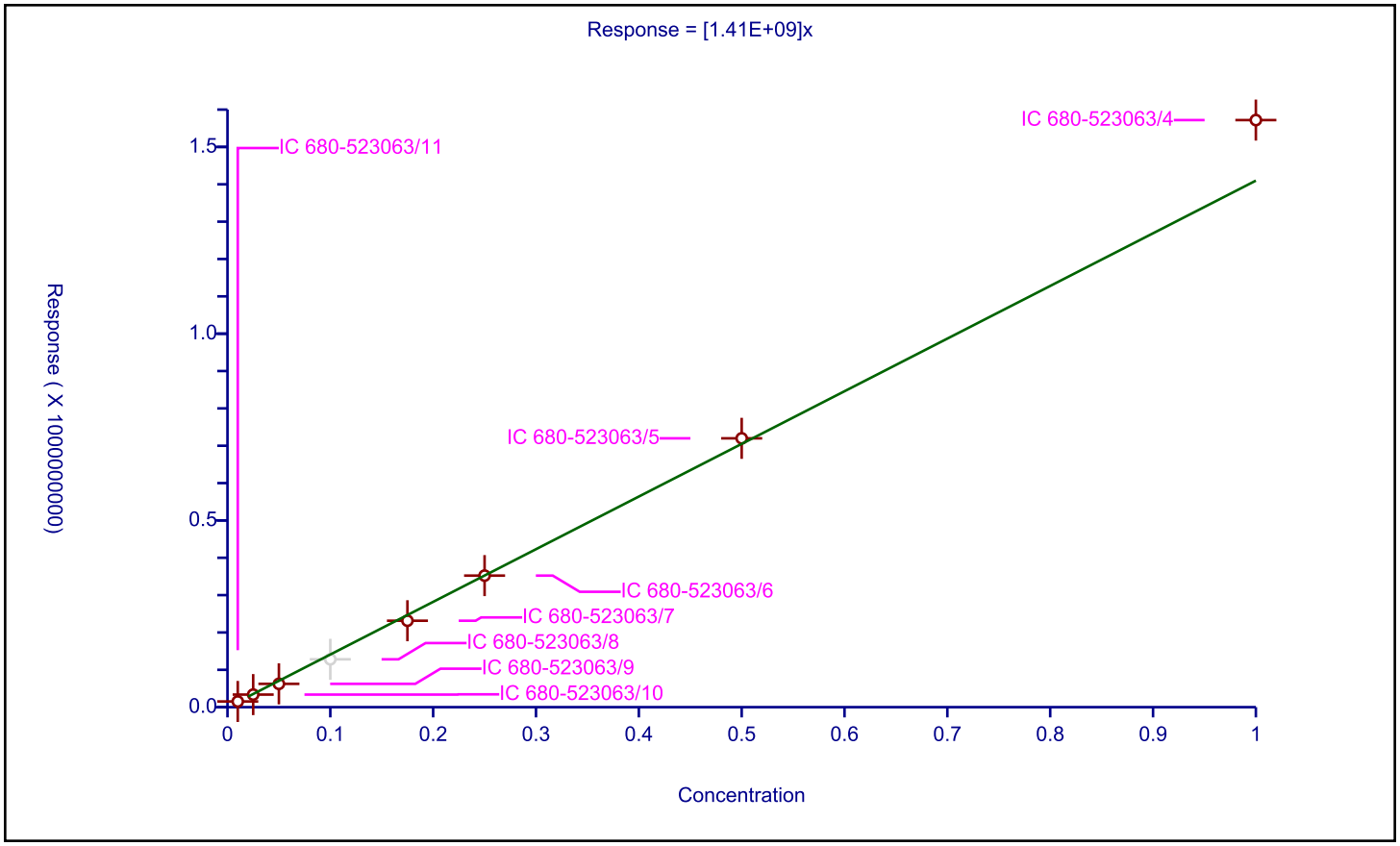
Curve Coefficients

Intercept:	0
Slope:	1.41E+09

Error Coefficients

Standard Error:	66900000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	15301912.0			1530191200.0	Y
2	IC 680-523063/10	0.025	33672808.0			1346912320.0	Y
3	IC 680-523063/9	0.05	62424883.0			1248497660.0	Y
4	IC 680-523063/8	0.1	128102012.0			1281020120.0	N
5	IC 680-523063/7	0.175	231436814.0			1322496080.0	Y
6	IC 680-523063/6	0.25	352257271.0			1409029084.0	Y
7	IC 680-523063/5	0.5	719800477.0			1439600954.0	Y
8	IC 680-523063/4	1.0	1571966456.0			1571966456.0	Y



Calibration / 2,4-D

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

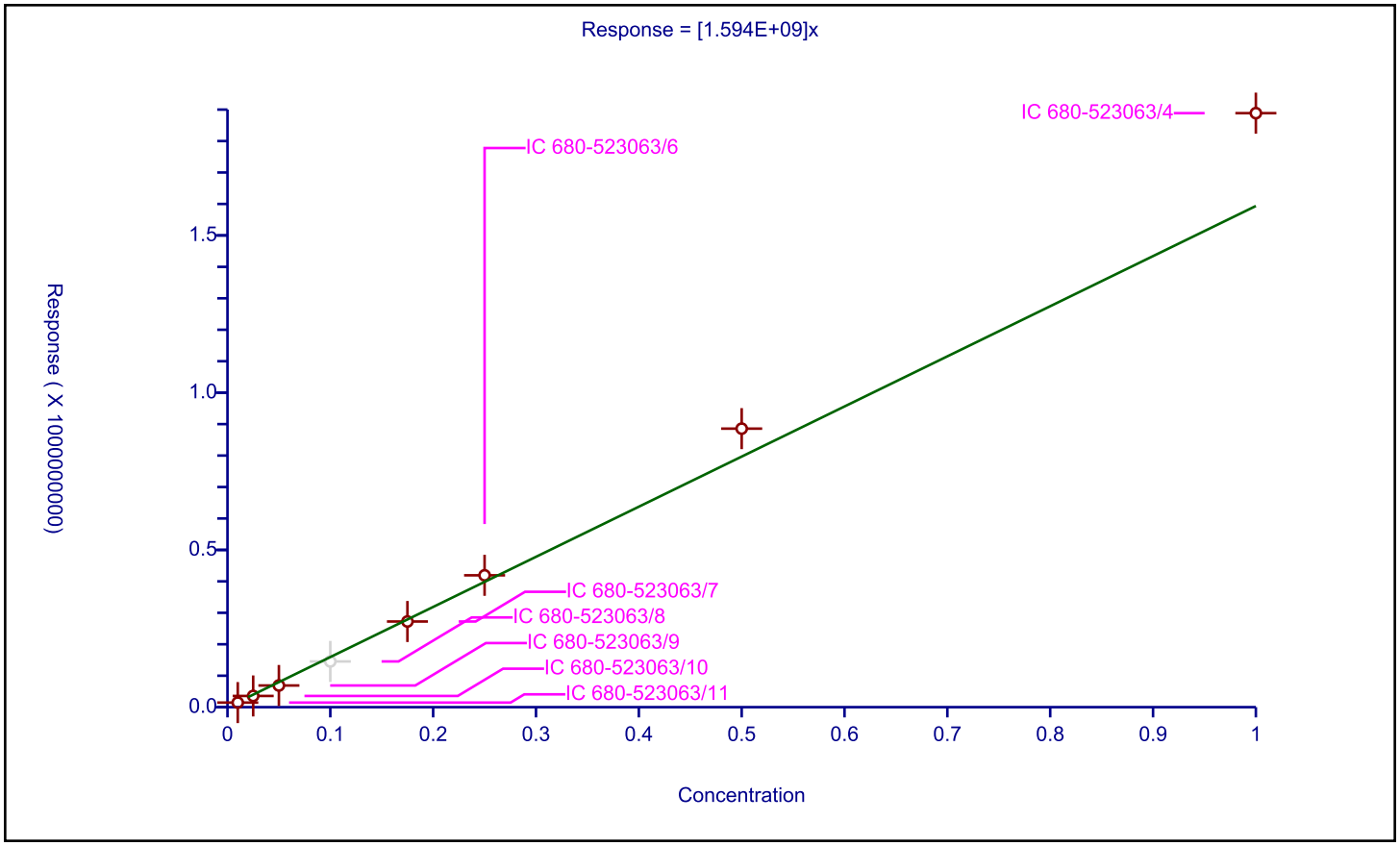
Curve Coefficients

Intercept:	0
Slope:	1.594E+09

Error Coefficients

Standard Error:	126000000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	14551198.0			1455119800.0	Y
2	IC 680-523063/10	0.025	35695833.0			1427833320.0	Y
3	IC 680-523063/9	0.05	68918972.0			1378379440.0	Y
4	IC 680-523063/8	0.1	145386532.0			1453865320.0	N
5	IC 680-523063/7	0.175	272374787.0			1556427354.28571	Y
6	IC 680-523063/6	0.25	419247494.0			1676989976.0	Y
7	IC 680-523063/5	0.5	885627489.0			1771254978.0	Y
8	IC 680-523063/4	1.0	1888747044.0			1888747044.0	Y



Calibration / Pentachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

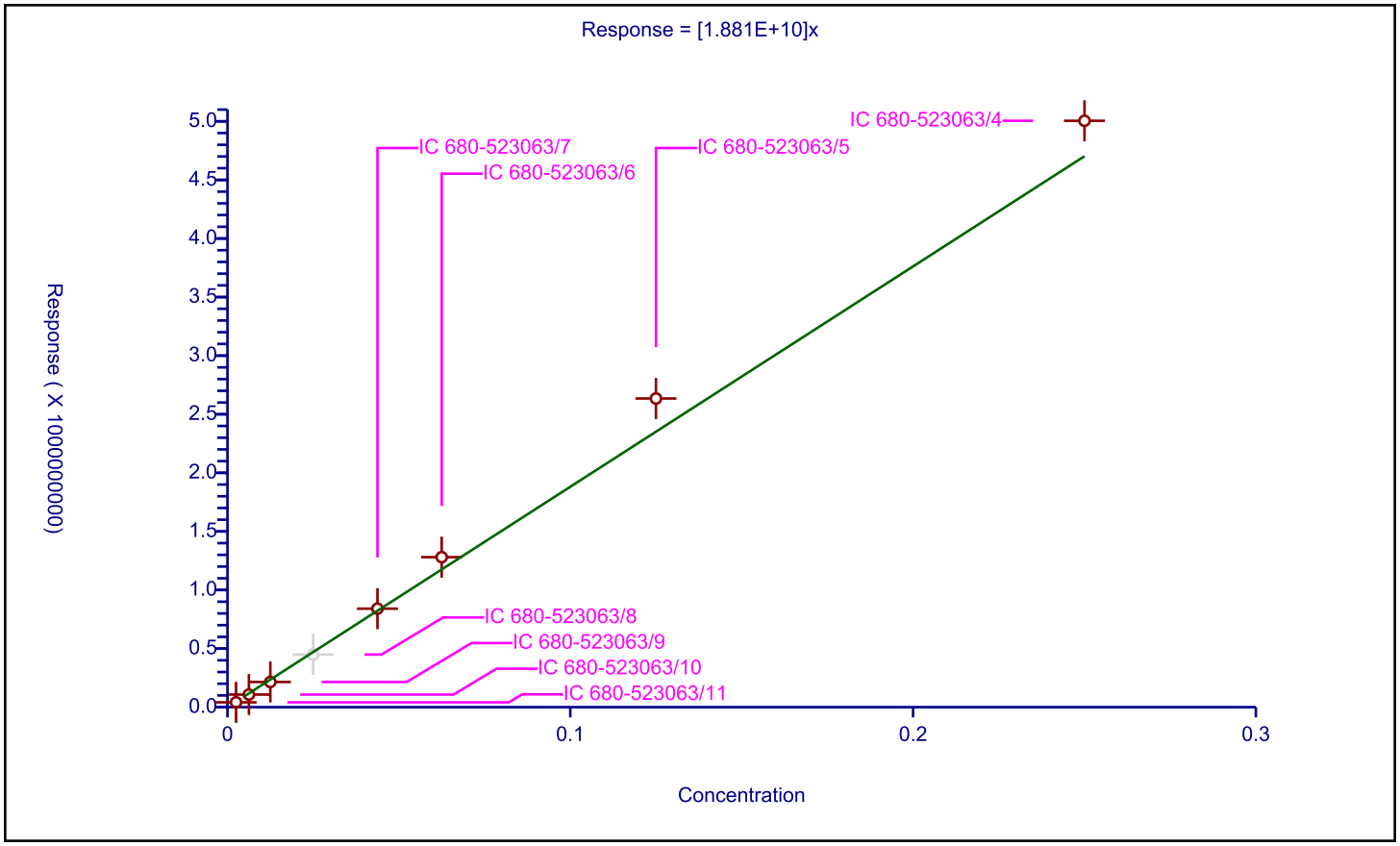
Curve Coefficients

Intercept:	0
Slope:	1.881E+10

Error Coefficients

Standard Error:	175000000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	41165516.0			16466206400.0	Y
2	IC 680-523063/10	0.00625	107509203.0			17201472480.0	Y
3	IC 680-523063/9	0.0125	214964113.0			17197129040.0	Y
4	IC 680-523063/8	0.025	448807878.0			17952315120.0	N
5	IC 680-523063/7	0.04375	840761037.0			19217395131.4286	Y
6	IC 680-523063/6	0.0625	1280290405.0			20484646480.0	Y
7	IC 680-523063/5	0.125	2634537256.0			21076298048.0	Y
8	IC 680-523063/4	0.25	5004401348.0			20017605392.0	Y



Calibration / Silvex (2,4,5-TP)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

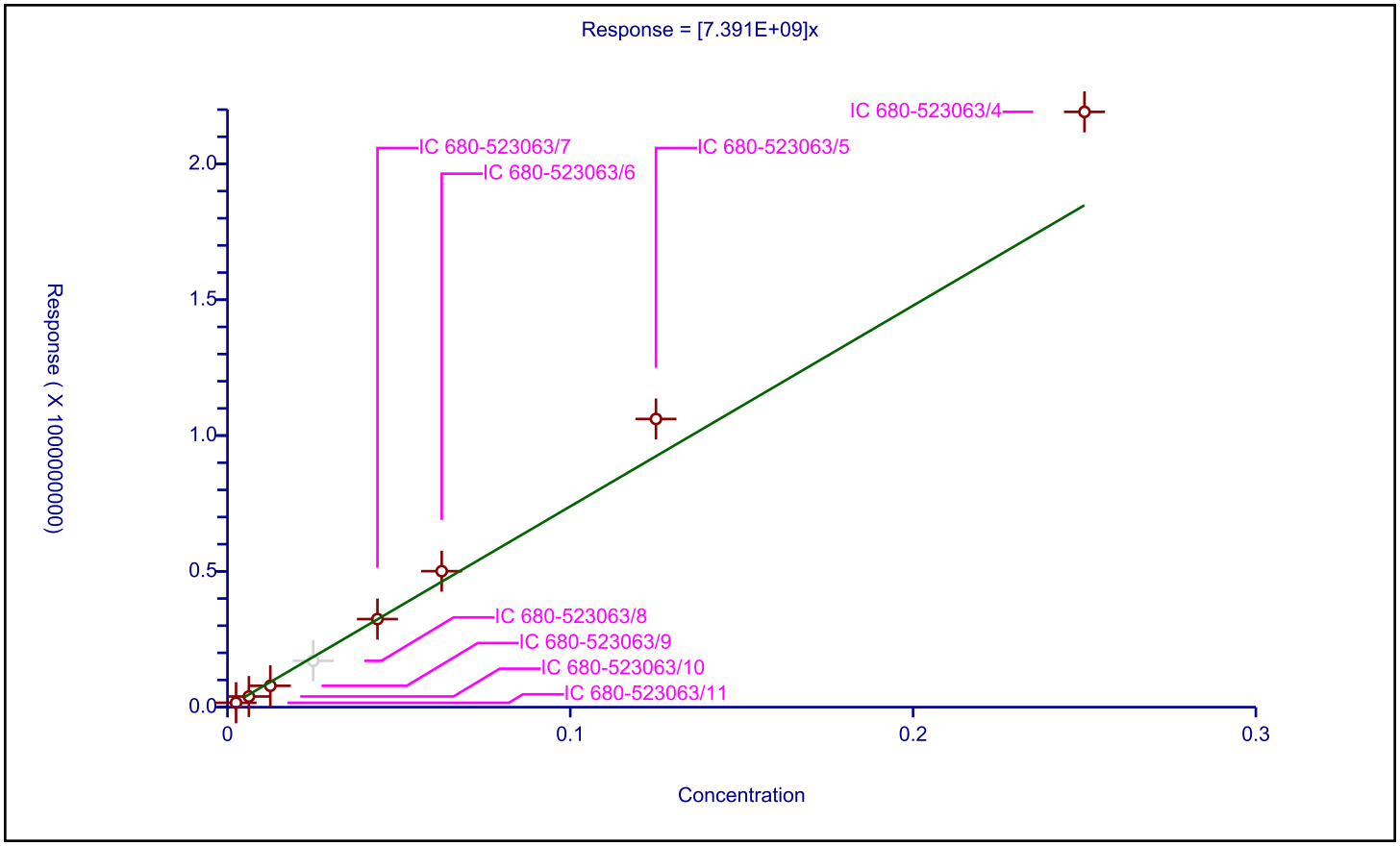
Curve Coefficients

Intercept:	0
Slope:	7.391E+09

Error Coefficients

Standard Error:	152000000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	16213772.0			6485508800.0	Y
2	IC 680-523063/10	0.00625	39284572.0			6285531520.0	Y
3	IC 680-523063/9	0.0125	78639731.0			6291178480.0	Y
4	IC 680-523063/8	0.025	170517091.0			6820683640.0	N
5	IC 680-523063/7	0.04375	324244276.0			7411297737.14286	Y
6	IC 680-523063/6	0.0625	500698059.0			8011168944.0	Y
7	IC 680-523063/5	0.125	1061020220.0			8488161760.0	Y
8	IC 680-523063/4	0.25	2191601950.0			8766407800.0	Y



Calibration / 2,4,5-T

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

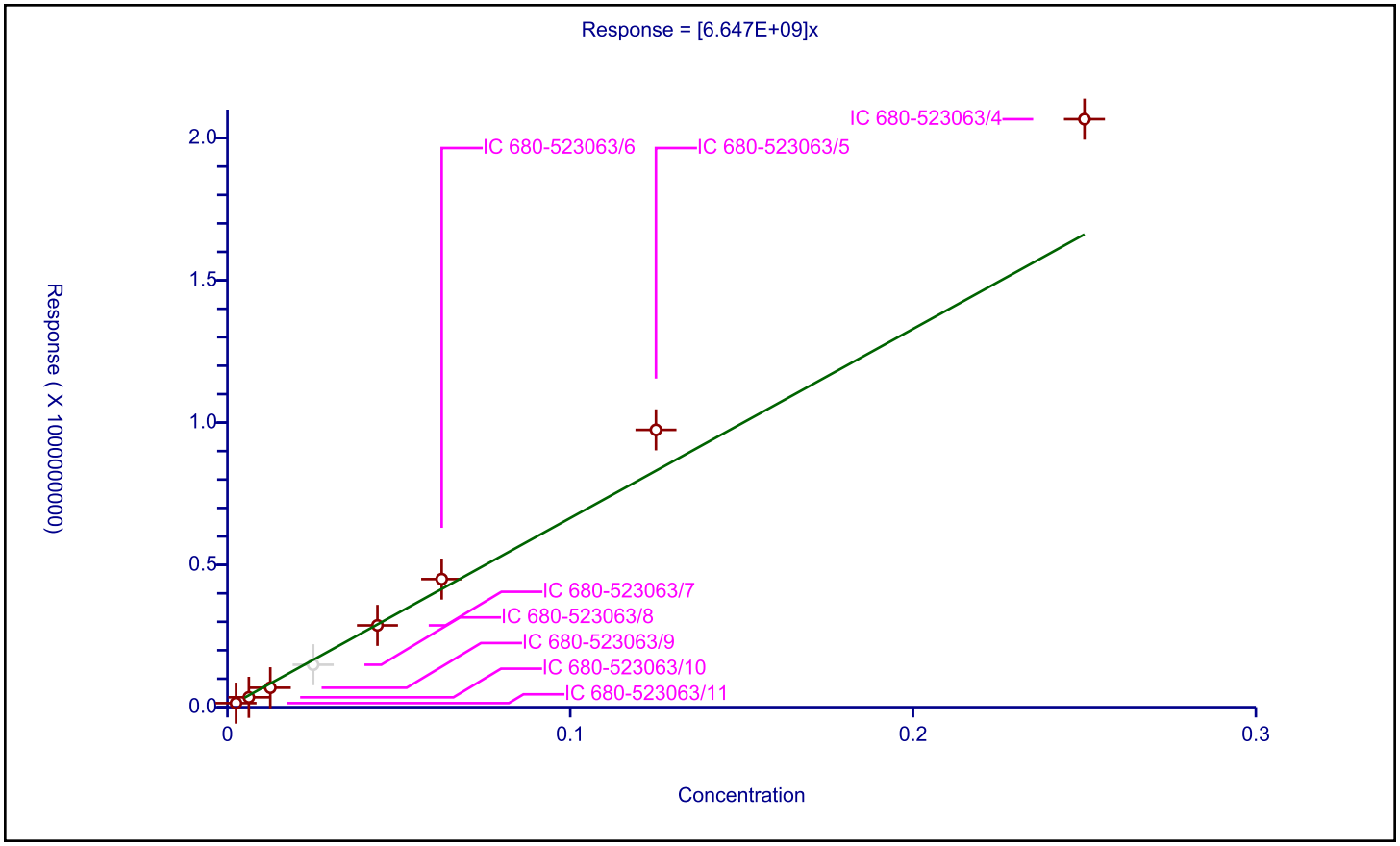
Curve Coefficients

Intercept:	0
Slope:	6.647E+09

Error Coefficients

Standard Error:	176000000
Relative Standard Error:	17.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.0025	14207297.0			5682918800.0	Y
2	IC 680-523063/10	0.00625	34680183.0			5548829280.0	Y
3	IC 680-523063/9	0.0125	68256754.0			5460540320.0	Y
4	IC 680-523063/8	0.025	149160522.0			5966420880.0	N
5	IC 680-523063/7	0.04375	287476934.0			6570901348.57143	Y
6	IC 680-523063/6	0.0625	450029272.0			7200468352.0	Y
7	IC 680-523063/5	0.125	974569507.0			7796556056.0	Y
8	IC 680-523063/4	0.25	2066383005.0			8265532020.0	Y



Calibration / Chloramben

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

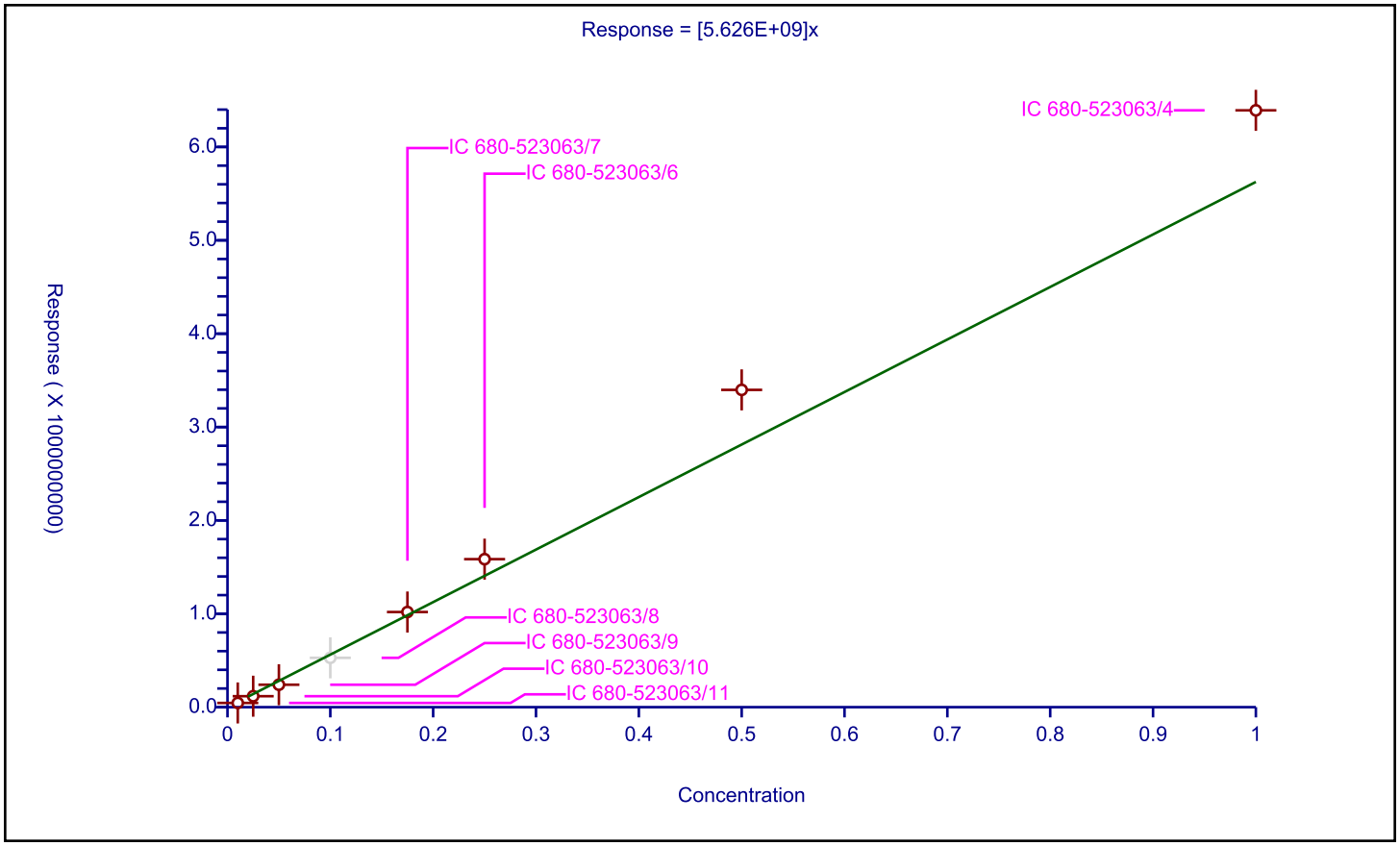
Curve Coefficients

Intercept:	0
Slope:	5.626E+09

Error Coefficients

Standard Error:	401000000
Relative Standard Error:	16.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	45179417.0			4517941700.0	Y
2	IC 680-523063/10	0.025	117512235.0			4700489400.0	Y
3	IC 680-523063/9	0.05	240336393.0			4806727860.0	Y
4	IC 680-523063/8	0.1	528388568.0			5283885680.0	N
5	IC 680-523063/7	0.175	1019151525.0			5823723000.0	Y
6	IC 680-523063/6	0.25	1585218711.0			6340874844.0	Y
7	IC 680-523063/5	0.5	3398296359.0			6796592718.0	Y
8	IC 680-523063/4	1.0	6392220091.0			6392220091.0	Y



Calibration / Dinoseb

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

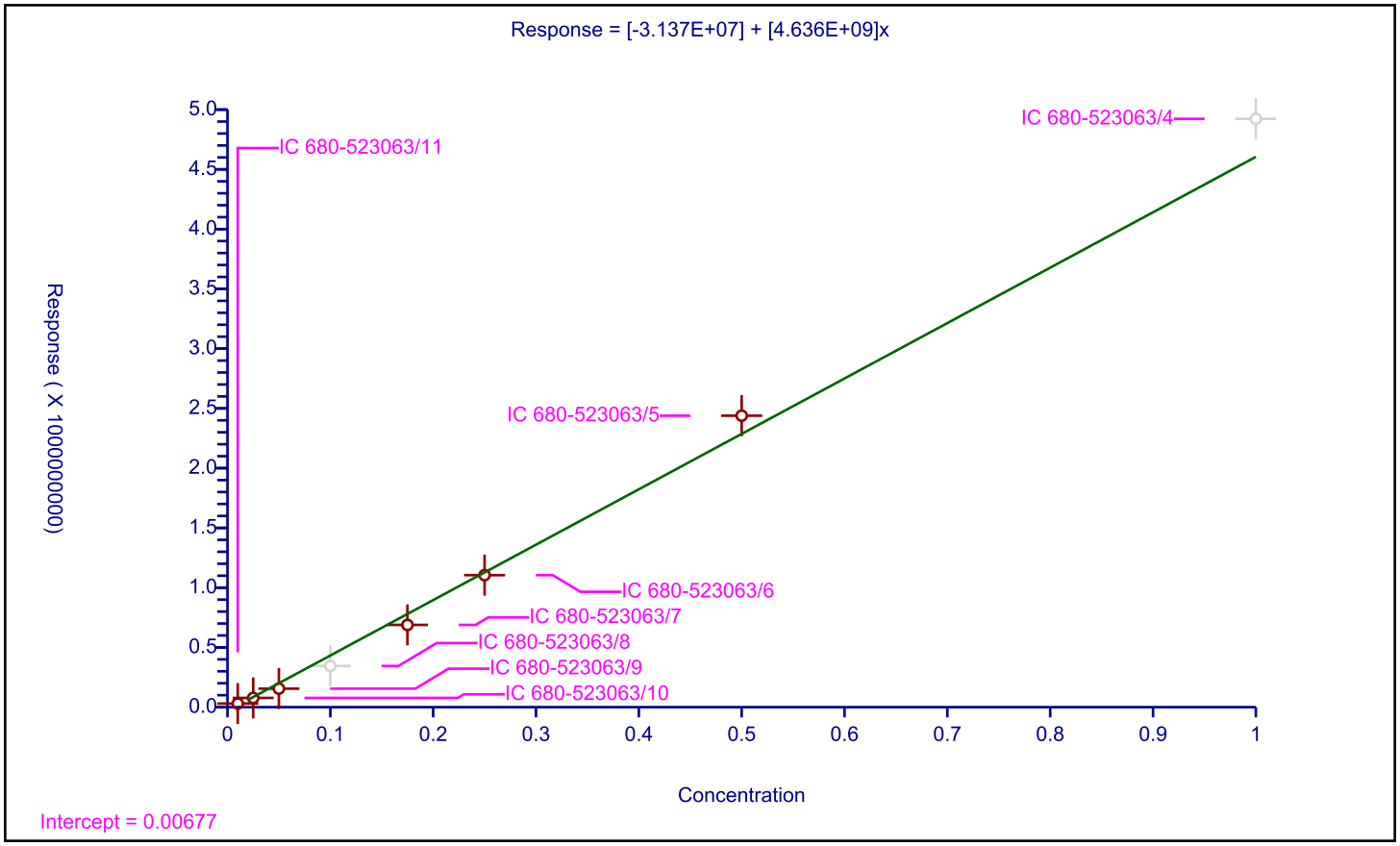
Curve Coefficients

Intercept:	-3.137E+07
Slope:	4.636E+09

Error Coefficients

Standard Error:	92900000
Relative Standard Error:	20.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	30077804.0			3007780400.0	Y
2	IC 680-523063/10	0.025	77307007.0			3092280280.0	Y
3	IC 680-523063/9	0.05	154960345.0			3099206900.0	Y
4	IC 680-523063/8	0.1	344721192.0			3447211920.0	N
5	IC 680-523063/7	0.175	688241161.0			3932806634.28571	Y
6	IC 680-523063/6	0.25	1104528845.0			4418115380.0	Y
7	IC 680-523063/5	0.5	2438912841.0			4877825682.0	Y
8	IC 680-523063/4	1.0	4922703086.0			4922703086.0	N



Calibration / 2,4-DB

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

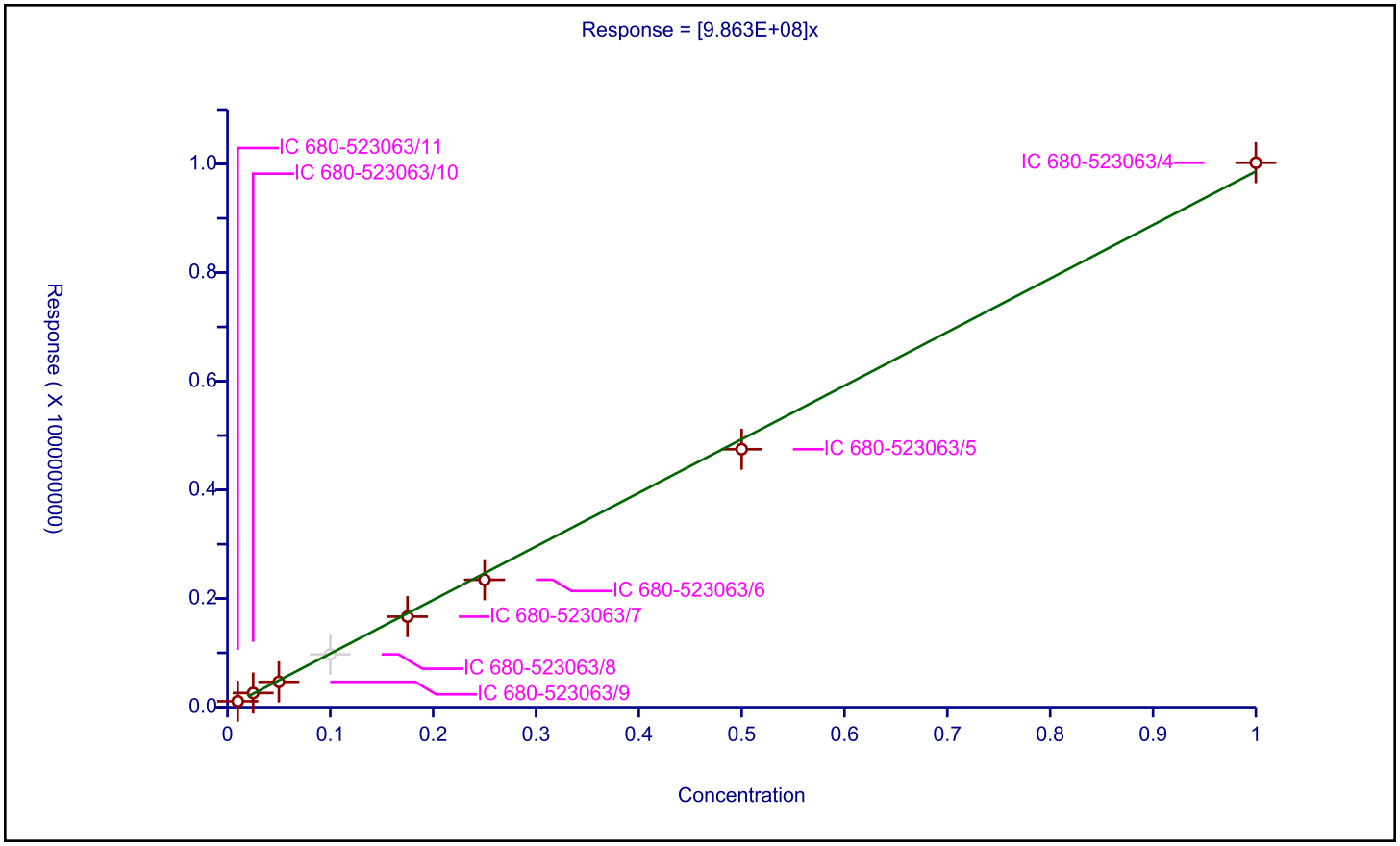
Curve Coefficients

Intercept:	0
Slope:	9.863E+08

Error Coefficients

Standard Error:	11400000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	10871976.0			1087197600.0	Y
2	IC 680-523063/10	0.025	26051520.0			1042060800.0	Y
3	IC 680-523063/9	0.05	46624287.0			932485740.0	Y
4	IC 680-523063/8	0.1	97285447.0			972854470.0	N
5	IC 680-523063/7	0.175	166644052.0			952251725.714286	Y
6	IC 680-523063/6	0.25	234527590.0			938110360.0	Y
7	IC 680-523063/5	0.5	474832365.0			949664730.0	Y
8	IC 680-523063/4	1.0	1002259721.0			1002259721.0	Y



Calibration / Bentazon

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

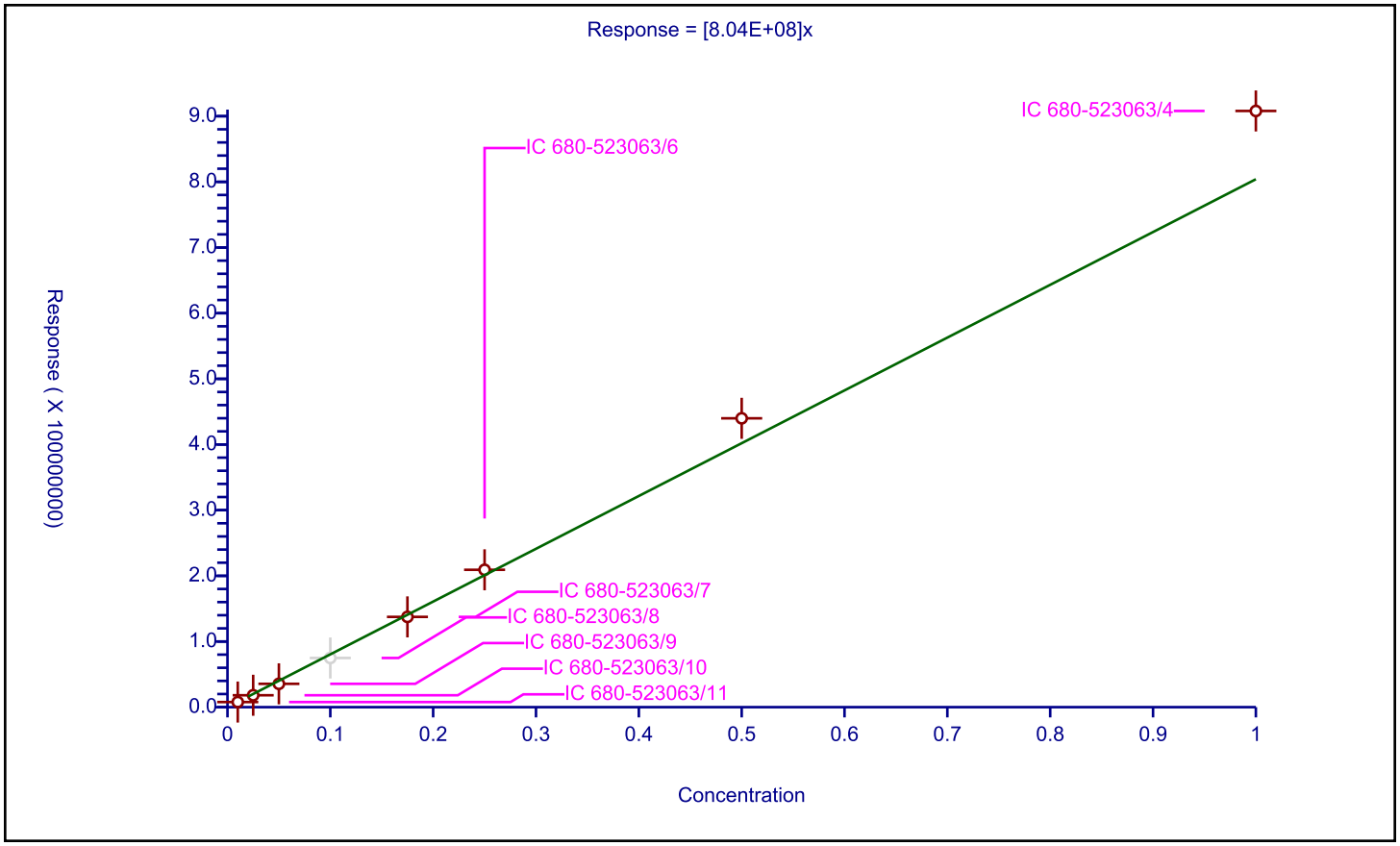
Curve Coefficients

Intercept:	0
Slope:	8.04E+08

Error Coefficients

Standard Error:	45400000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	7803979.0			780397900.0	Y
2	IC 680-523063/10	0.025	18151512.0			726060480.0	Y
3	IC 680-523063/9	0.05	35565067.0			711301340.0	Y
4	IC 680-523063/8	0.1	74902105.0			749021050.0	N
5	IC 680-523063/7	0.175	137471207.0			785549754.285714	Y
6	IC 680-523063/6	0.25	209189101.0			836756404.0	Y
7	IC 680-523063/5	0.5	439887803.0			879775606.0	Y
8	IC 680-523063/4	1.0	907942100.0			907942100.0	Y



Calibration / DCPA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

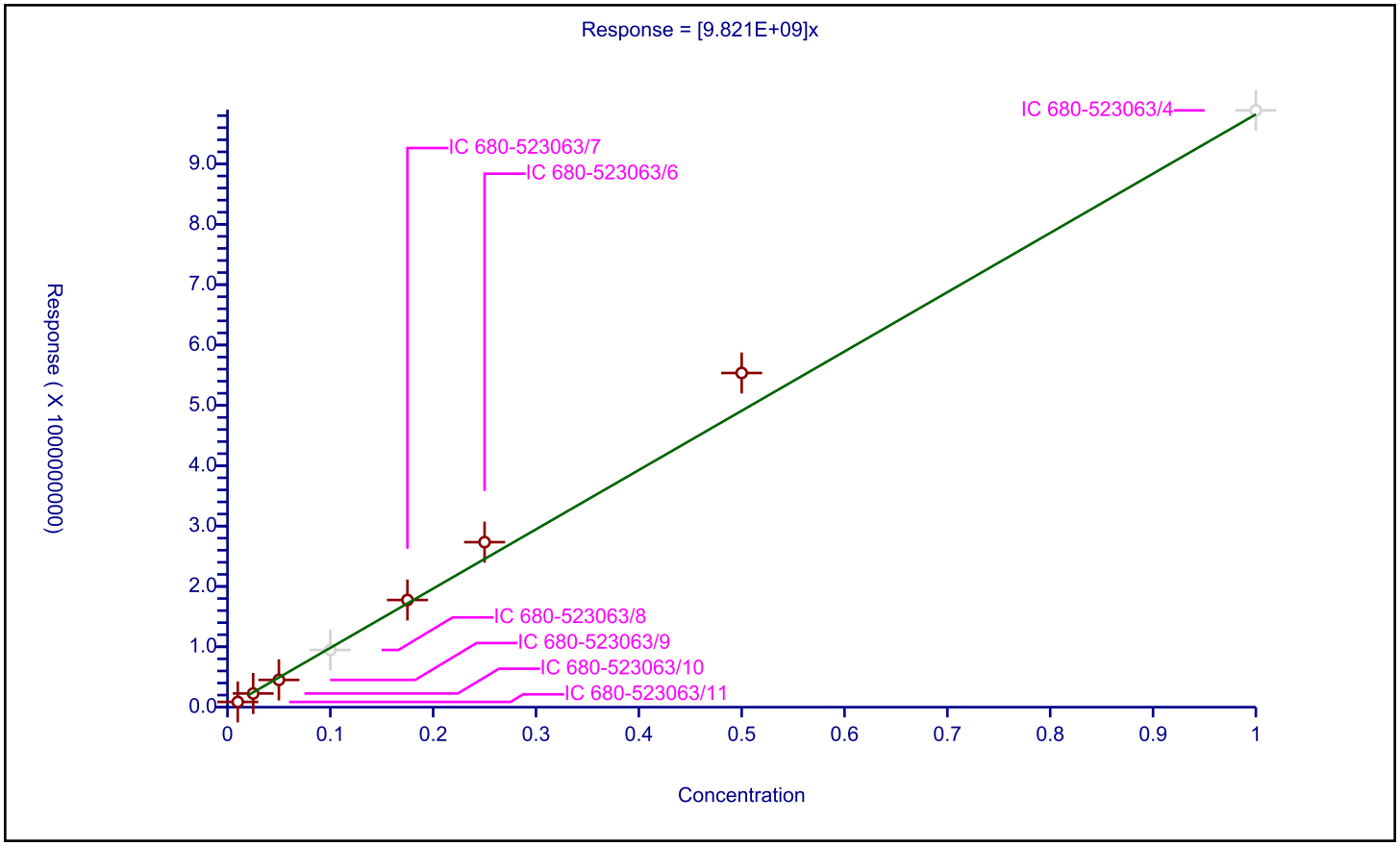
Curve Coefficients

Intercept:	0
Slope:	9.821E+09

Error Coefficients

Standard Error:	308000000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	86672796.0			8667279600.0	Y
2	IC 680-523063/10	0.025	226645361.0			9065814440.0	Y
3	IC 680-523063/9	0.05	451881325.0			9037626500.0	Y
4	IC 680-523063/8	0.1	947740711.0			9477407110.0	N
5	IC 680-523063/7	0.175	1775677219.0			10146726965.7143	Y
6	IC 680-523063/6	0.25	2733977251.0			10935909004.0	Y
7	IC 680-523063/5	0.5	5536696155.0			11073392310.0	Y
8	IC 680-523063/4	1.0	9887348056.0			9887348056.0	N



Calibration / Picloram

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

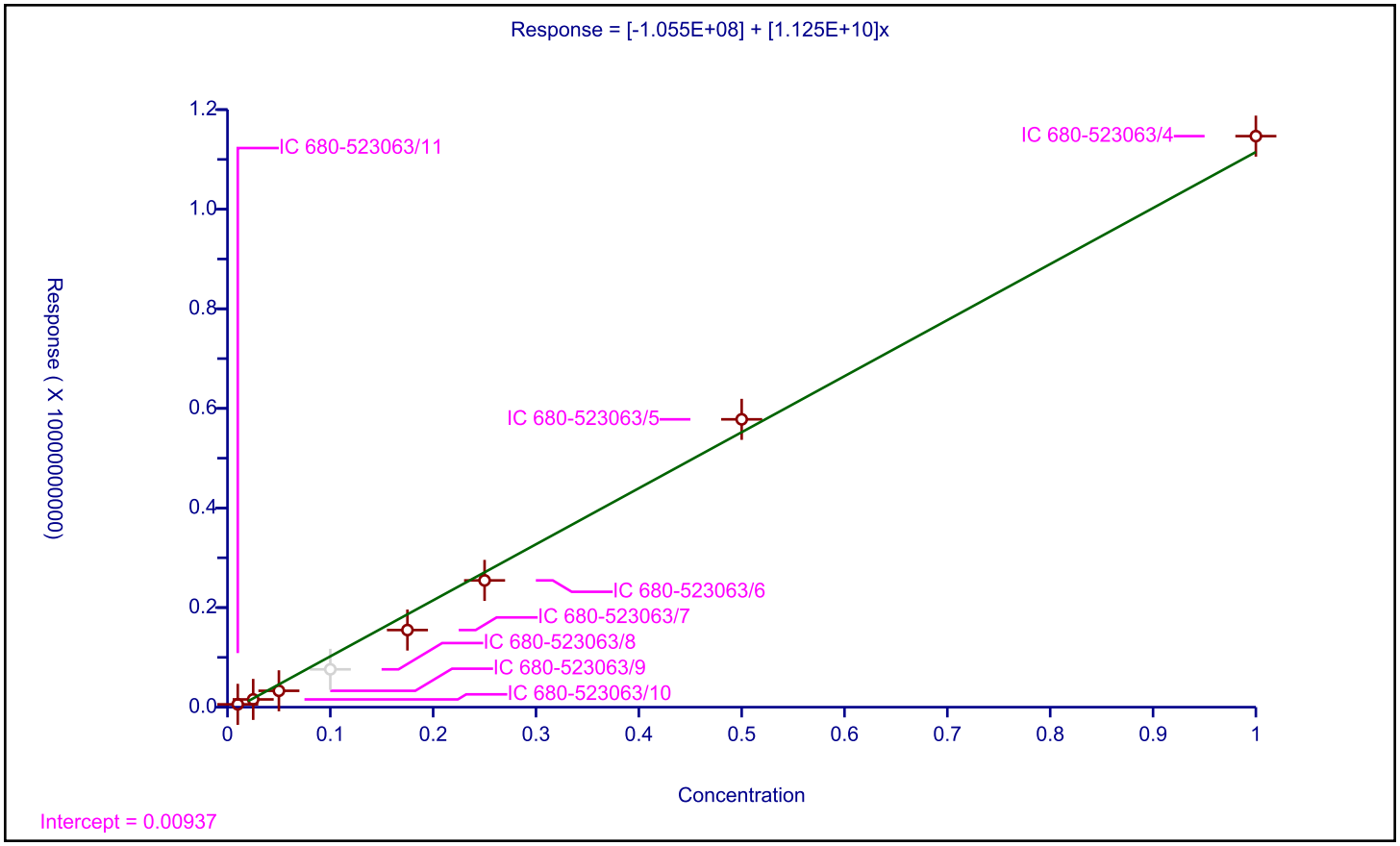
Curve Coefficients

Intercept:	-1.055E+08
Slope:	1.125E+10

Error Coefficients

Standard Error:	250000000
Relative Standard Error:	24.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	57128370.0			5712837000.0	Y
2	IC 680-523063/10	0.025	155603121.0			6224124840.0	Y
3	IC 680-523063/9	0.05	328532437.0			6570648740.0	Y
4	IC 680-523063/8	0.1	759779337.0			7597793370.0	N
5	IC 680-523063/7	0.175	1548770490.0			8850117085.71429	Y
6	IC 680-523063/6	0.25	2545447676.0			10181790704.0	Y
7	IC 680-523063/5	0.5	5780160796.0			11560321592.0	Y
8	IC 680-523063/4	1.0	11467491007.0			11467491007.0	Y



Calibration / Acifluorfen

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ESTD
Response Base:	
RF Rounding:	0

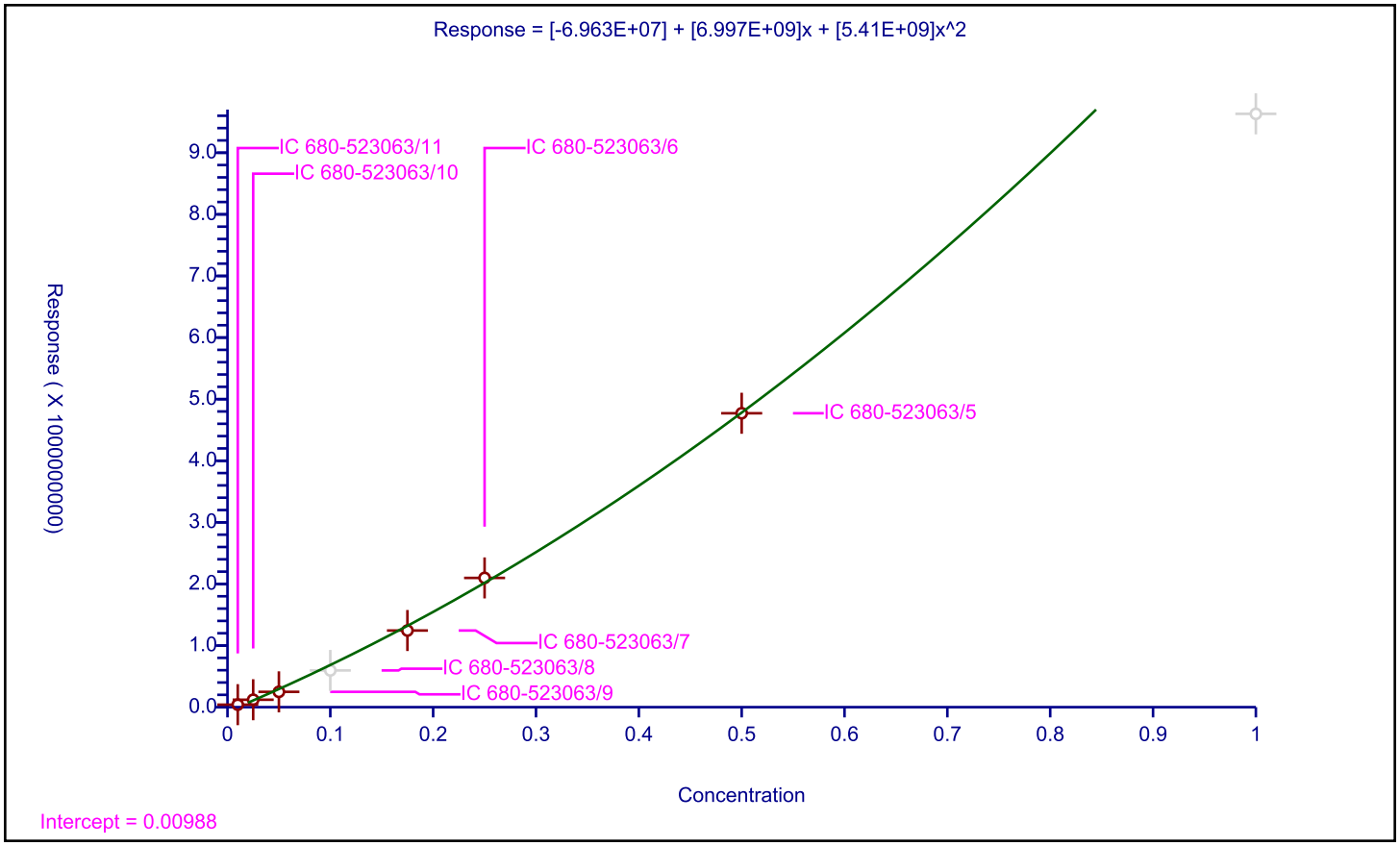
Curve Coefficients

Intercept:	-6.963E+07
Slope:	6.997E+09
Second Order:	5.41E+09

Error Coefficients

Standard Error:	73400000
Relative Standard Error:	33.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 680-523063/11	0.01	40645245.0			4064524500.0	Y
2	IC 680-523063/10	0.025	120359495.0			4814379800.0	Y
3	IC 680-523063/9	0.05	248586919.0			4971738380.0	Y
4	IC 680-523063/8	0.1	596281084.0			5962810840.0	N
5	IC 680-523063/7	0.175	1244184045.0			7109623114.28572	Y
6	IC 680-523063/6	0.25	2098074459.0			8392297836.0	Y
7	IC 680-523063/5	0.5	4770908516.0			9541817032.0	Y
8	IC 680-523063/4	1.0	9631196972.0			9631196972.0	N



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	524076394	501665051		0.168	0.175	-4.3	20.0
3,5-Dichlorobenzoic acid	Ave	321415612	314763497		0.171	0.175	-2.1	20.0
4-Nitrophenol	Ave	92458216	102031594		0.193	0.175	10.4	20.0
Dicamba	Ave	1077009527	1054404651		0.0857	0.0875	-2.1	20.0
MCPP	Qua		498721		16.5	17.5	-6.0	20.0
MCPA	Ave	925968	1023116		19.3	17.5	10.5	20.0
Dichlorprop	Ave	277497963	279363520		0.176	0.175	0.7	20.0
2,4-D	Ave	302399622	313230406		0.181	0.175	3.6	20.0
Pentachlorophenol	Ave	5383895550	5465498149		0.0444	0.0438	1.5	20.0
Silvex (2,4,5-TP)	Ave	1878728542	1967042629		0.0458	0.0438	4.7	20.0
Chloramben	Qua		1552941966		0.167	0.175	-4.7	20.0
2,4,5-T	Ave	2193840481	2185537531		0.0436	0.0438	-0.4	20.0
2,4-DB	Qua		156523029		0.167	0.175	-4.5	20.0
Dinoseb	Ave	1223895982	1139844429		0.163	0.175	-6.9	20.0
Bentazon	Ave	287551968	283273971		0.172	0.175	-1.5	20.0
Picloram	Qua		2479981994		0.168	0.175	-3.8	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	3293157561	3248557994		0.173	0.175	-1.4	20.0
Acifluorfen	Qua		2226762514		0.162	0.175	-7.2	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	211477985	202049760		0.167	0.175	-4.5	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.58	2.56	2.60
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.25	6.24	6.26
Dicamba	6.72	6.71	6.73
MCPP	6.87	6.86	6.88
MCPA	7.00	6.98	7.00
Dichlorprop	7.18	7.17	7.19
2,4-D	7.32	7.32	7.34
Pentachlorophenol	7.67	7.66	7.68
Silvex (2,4,5-TP)	7.77	7.76	7.78
Chloramben	7.85	7.85	7.87
2,4,5-T	7.93	7.92	7.94
2,4-DB	8.17	8.17	8.19
Dinoseb	8.22	8.21	8.23
Bentazon	8.30	8.29	8.31
Picloram	8.53	8.52	8.54
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	8.61	8.63
Acifluorfen	9.67	9.66	9.68
2,4-Dichlorophenylacetic acid (Surr)	6.68	6.67	6.69

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 14:35:04 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:27:14 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:12:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	87791384	0.1750	0.1675	
2	2.634	2.632	0.002	268322043	0.1750	0.1665	
						RPD = 0.62	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16860262	NC	NC	
2	5.102	5.102	0.000	93176385	NC	NC	
						RPD = 0.02	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	215525699	NC	NC	
2	5.777	5.776	0.001	930949918	NC	NC	
						RPD = 0.64	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	55083612	0.1750	0.1714	
2	6.116	6.116	0.000	304054087	0.1750	0.1692	
						RPD = 1.28	
5 4-Nitrophenol							M
1	6.251	6.253	-0.002	17855529	0.1750	0.1931	
2	6.505	6.505	0.000	52975624	0.1750	0.1772	M
						RPD = 8.62	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.683	6.683	0.000	35358708	0.1750	0.1672	
2	6.830	6.829	0.001	240517141	0.1750	0.1709	M
						RPD = 2.16	
7 Dicamba							M
1	6.721	6.720	0.001	92260407	0.0875	0.0857	
2	6.912	6.910	0.002	438385412	0.0875	0.0875	M
						RPD = 2.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	8727611	17.5	16.5	
2	6.956	6.955	0.001	79838277	17.5	17.4	M
						RPD = 5.73	
9 MCPA							M
1	6.995	6.994	0.001	17904527	17.5	19.3	
2	7.156	7.155	0.001	125917297	17.5	20.2	M
						RPD = 4.31	
10 Dichlorprop							M
1	7.181	7.180	0.001	48888616	0.1750	0.1762	
2	7.298	7.297	0.001	236765319	0.1750	0.1679	M
						RPD = 4.79	
11 2,4-D							M
1	7.324	7.326	-0.002	54815321	0.1750	0.1813	
2	7.516	7.517	-0.001	280829565	0.1750	0.1762	M
						RPD = 2.82	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	239115544	0.0438	0.0444	
2	7.715	7.714	0.001	861630277	0.0438	0.0458	M
						RPD = 3.10	
13 Silvex (2,4,5-TP)							M
1	7.768	7.769	-0.001	86058115	0.0438	0.0458	
2	7.847	7.846	0.001	335327121	0.0438	0.0454	M
						RPD = 0.96	
14 Chloramben							M
1	7.852	7.855	-0.003	271764844	0.1750	0.1667	
2	8.161	8.162	-0.001	1043446048	0.1750	0.1855	M
						RPD = 10.67	
15 2,4,5-T							M
1	7.926	7.929	-0.003	95617267	0.0438	0.0436	
2	8.082	8.083	-0.001	298977240	0.0438	0.0450	M
						RPD = 3.16	
16 2,4-DB							M
1	8.172	8.175	-0.003	27391530	0.1750	0.1671	
2	8.301	8.302	-0.001	175272842	0.1750	0.1777	M
						RPD = 6.18	
17 Dinoseb							M
1	8.223	8.224	-0.001	199472775	0.1750	0.1630	
2	8.249	8.248	0.001	670832472	0.1750	0.1515	M
						RPD = 7.32	
18 Bentazon							M
1	8.300	8.300	0.000	49572945	0.1750	0.1724	
2	8.664	8.662	0.002	149493508	0.1750	0.1859	M
						RPD = 7.56	
19 Picloram							M
1	8.526	8.529	-0.003	433996849	0.1750	0.1684	
2	9.008	9.005	0.003	1596868377	0.1750	0.1513	M
						RPD = 10.72	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	568497649	0.1750	0.1726	
2	8.779	8.775	0.004	1822835497	0.1750	0.1856	M
						RPD = 7.24	
21 Acifluorfen							M
1	9.666	9.666	0.000	389683440	0.1750	0.1624	
2	9.796	9.792	0.004	1189239771	0.1750	0.1601	M
						RPD = 1.40	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

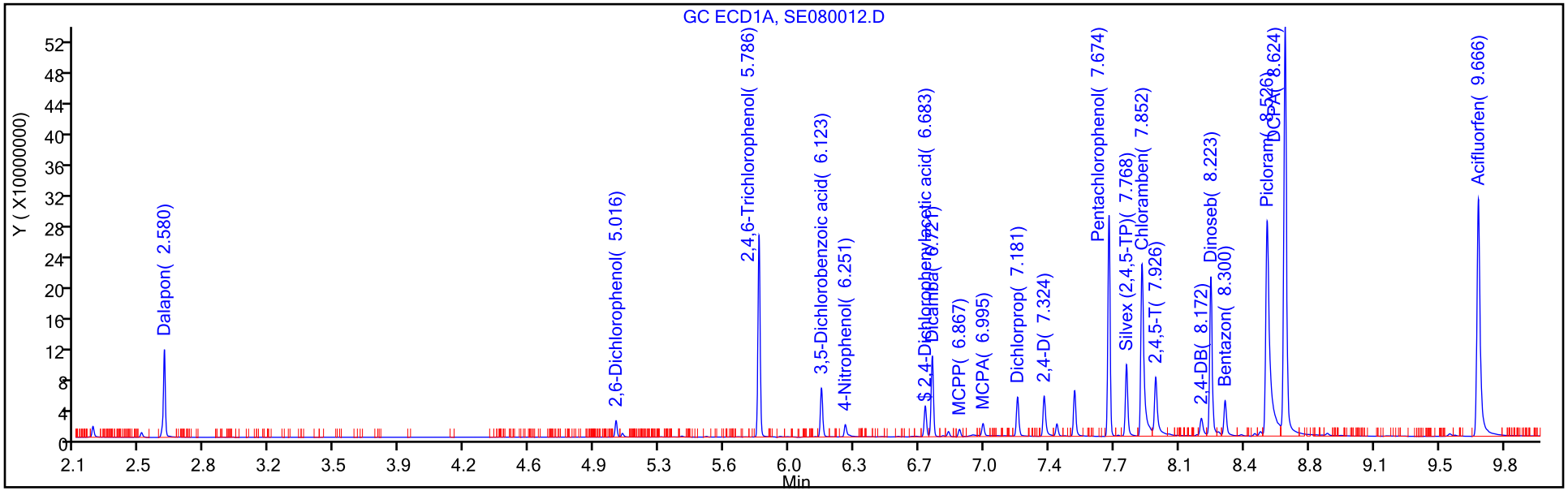
Report Date: 08-May-2018 16:27:17 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

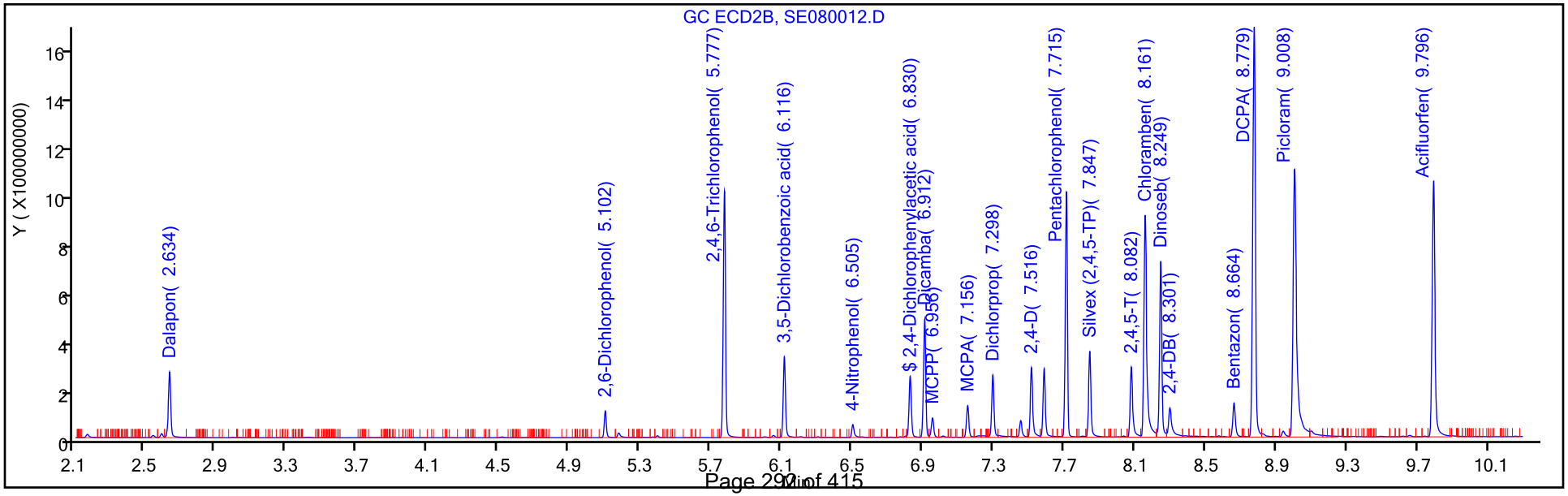
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	icv herb			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1611774466	1533268817		0.166	0.175	-4.9	20.0
3,5-Dichlorobenzoic acid	Ave	1796964783	1737451926		0.169	0.175	-3.3	20.0
4-Nitrophenol	Ave	299039718	302717851		0.177	0.175	1.2	20.0
Dicamba	Ave	5009061262	5010118994		0.0875	0.0875	0.0	20.0
MCPP	Lin2		4562187		17.4	17.5	-0.4	20.0
MCPA	QuaF		7195274		20.2	17.5	15.4	20.0
Dichlorprop	Ave	1409813393	1352944680		0.168	0.175	-4.0	20.0
2,4-D	Ave	1593535987	1604740371		0.176	0.175	0.7	20.0
Pentachlorophenol	Ave	18808678996	19694406331		0.0458	0.0438	4.7	20.0
Silvex (2,4,5-TP)	Ave	7391322149	7664619909		0.0454	0.0438	3.7	20.0
2,4,5-T	Ave	6646535168	6833765486		0.0450	0.0438	2.8	20.0
Chloramben	Ave	5625509945	5962548846		0.185	0.175	6.0	20.0
Dinoseb	Lin1		3833328411		0.151	0.175	-13.4	20.0
2,4-DB	Ave	986290097	1001559097		0.178	0.175	1.5	20.0
Bentazon	Ave	803969083	854248617		0.186	0.175	6.3	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	9821124803	10416202840		0.186	0.175	6.1	20.0
Picloram	Lin1		9124962154		0.151	0.175	-13.6	20.0
Acifluorfen	Qua		6795655834		0.160	0.175	-8.5	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1407755771	1374383663		0.171	0.175	-2.4	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: ICV 680-523063/12 Calibration Date: 05/08/2018 14:35

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080012.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.63	2.61	2.65
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.51	6.50	6.52
Dicamba	6.91	6.90	6.92
MCPP	6.96	6.95	6.97
MCPA	7.16	7.15	7.17
Dichlorprop	7.30	7.29	7.31
2,4-D	7.52	7.51	7.53
Pentachlorophenol	7.72	7.70	7.72
Silvex (2,4,5-TP)	7.85	7.84	7.86
2,4,5-T	8.08	8.07	8.09
Chloramben	8.16	8.15	8.17
Dinoseb	8.25	8.24	8.26
2,4-DB	8.30	8.29	8.31
Bentazon	8.66	8.65	8.67
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	8.77	8.79
Picloram	9.01	9.00	9.02
Acifluorfen	9.80	9.78	9.80
2,4-Dichlorophenylacetic acid (Surr)	6.83	6.82	6.84

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D
Lims ID: icv herb
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 14:35:04 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-012
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 08-May-2018 16:27:14 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 08-May-2018 16:12:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.580	2.579	0.001	87791384	0.1750	0.1675	
2	2.634	2.632	0.002	268322043	0.1750	0.1665	
						RPD = 0.62	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	16860262	NC	NC	
2	5.102	5.102	0.000	93176385	NC	NC	
						RPD = 0.02	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	215525699	NC	NC	
2	5.777	5.776	0.001	930949918	NC	NC	
						RPD = 0.64	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	55083612	0.1750	0.1714	
2	6.116	6.116	0.000	304054087	0.1750	0.1692	
						RPD = 1.28	
5 4-Nitrophenol							M
1	6.251	6.253	-0.002	17855529	0.1750	0.1931	
2	6.505	6.505	0.000	52975624	0.1750	0.1772	M
						RPD = 8.62	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.683	6.683	0.000	35358708	0.1750	0.1672	
2	6.830	6.829	0.001	240517141	0.1750	0.1709	M
						RPD = 2.16	
7 Dicamba							M
1	6.721	6.720	0.001	92260407	0.0875	0.0857	
2	6.912	6.910	0.002	438385412	0.0875	0.0875	M
						RPD = 2.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	8727611	17.5	16.5	
2	6.956	6.955	0.001	79838277	17.5	17.4	M
						RPD = 5.73	
9 MCPA							M
1	6.995	6.994	0.001	17904527	17.5	19.3	
2	7.156	7.155	0.001	125917297	17.5	20.2	M
						RPD = 4.31	
10 Dichlorprop							M
1	7.181	7.180	0.001	48888616	0.1750	0.1762	
2	7.298	7.297	0.001	236765319	0.1750	0.1679	M
						RPD = 4.79	
11 2,4-D							M
1	7.324	7.326	-0.002	54815321	0.1750	0.1813	
2	7.516	7.517	-0.001	280829565	0.1750	0.1762	M
						RPD = 2.82	
12 Pentachlorophenol							M
1	7.674	7.674	0.000	239115544	0.0438	0.0444	
2	7.715	7.714	0.001	861630277	0.0438	0.0458	M
						RPD = 3.10	
13 Silvex (2,4,5-TP)							M
1	7.768	7.769	-0.001	86058115	0.0438	0.0458	
2	7.847	7.846	0.001	335327121	0.0438	0.0454	M
						RPD = 0.96	
14 Chloramben							M
1	7.852	7.855	-0.003	271764844	0.1750	0.1667	
2	8.161	8.162	-0.001	1043446048	0.1750	0.1855	M
						RPD = 10.67	
15 2,4,5-T							M
1	7.926	7.929	-0.003	95617267	0.0438	0.0436	
2	8.082	8.083	-0.001	298977240	0.0438	0.0450	M
						RPD = 3.16	
16 2,4-DB							M
1	8.172	8.175	-0.003	27391530	0.1750	0.1671	
2	8.301	8.302	-0.001	175272842	0.1750	0.1777	M
						RPD = 6.18	
17 Dinoseb							M
1	8.223	8.224	-0.001	199472775	0.1750	0.1630	
2	8.249	8.248	0.001	670832472	0.1750	0.1515	M
						RPD = 7.32	
18 Bentazon							M
1	8.300	8.300	0.000	49572945	0.1750	0.1724	
2	8.664	8.662	0.002	149493508	0.1750	0.1859	M
						RPD = 7.56	
19 Picloram							M
1	8.526	8.529	-0.003	433996849	0.1750	0.1684	
2	9.008	9.005	0.003	1596868377	0.1750	0.1513	M
						RPD = 10.72	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	568497649	0.1750	0.1726	
2	8.779	8.775	0.004	1822835497	0.1750	0.1856	M
						RPD = 7.24	
21 Acifluorfen							M
1	9.666	9.666	0.000	389683440	0.1750	0.1624	
2	9.796	9.792	0.004	1189239771	0.1750	0.1601	M
						RPD = 1.40	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERBICV_00014 Amount Added: 1.00 Units: mL

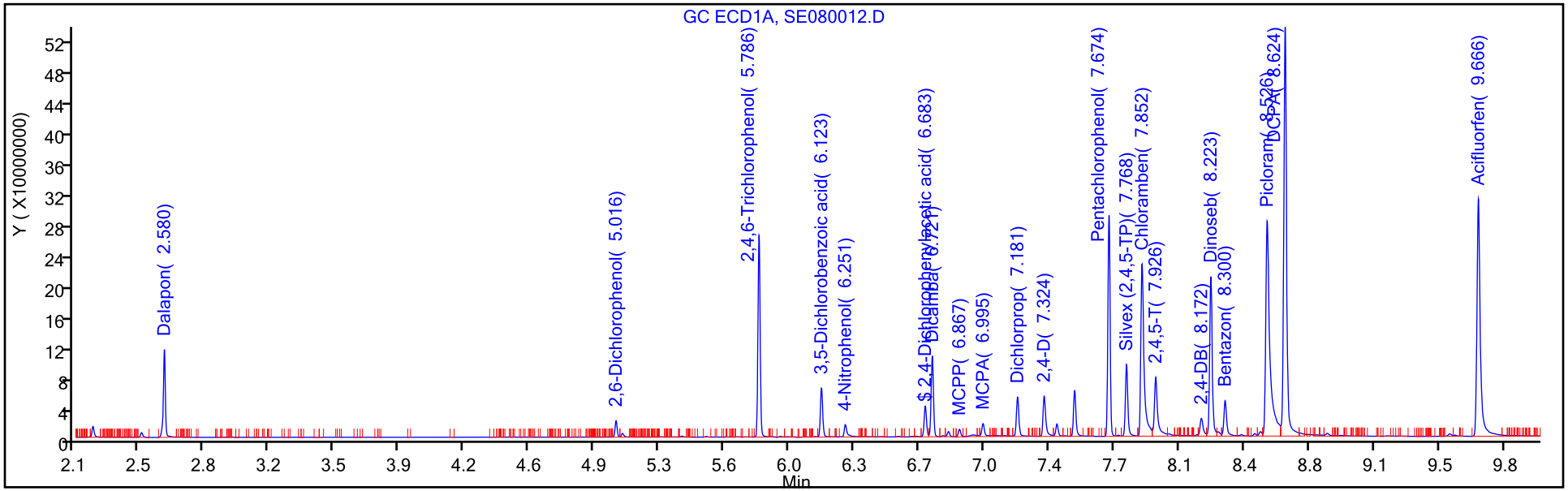
Report Date: 08-May-2018 16:27:17 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

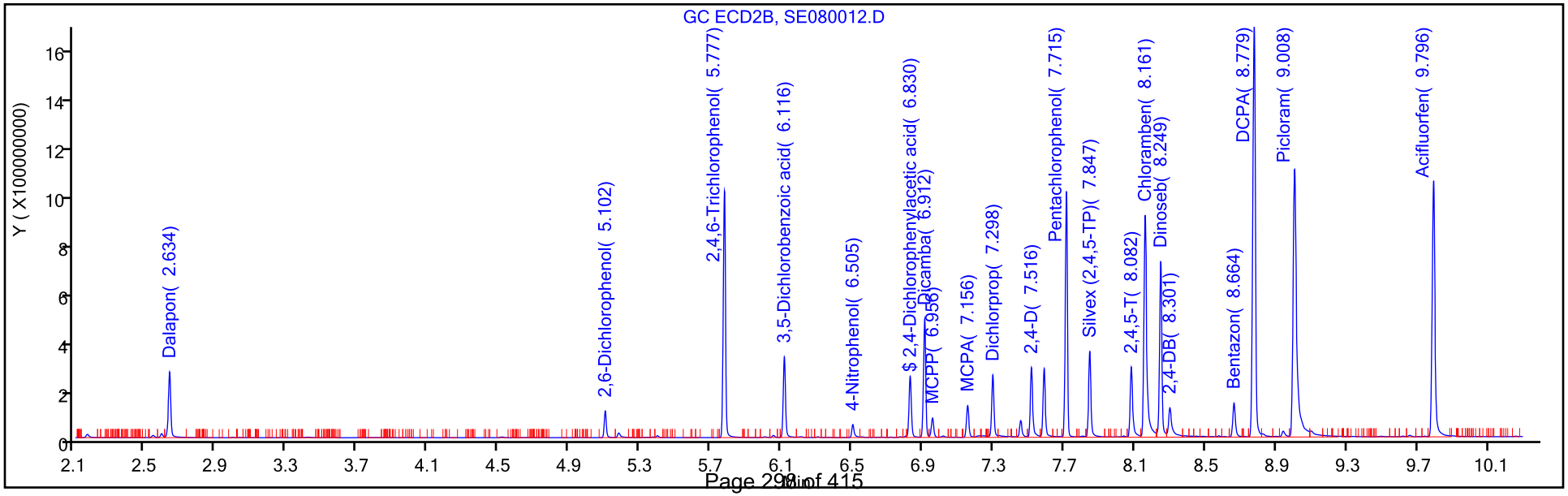
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	icv herb			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

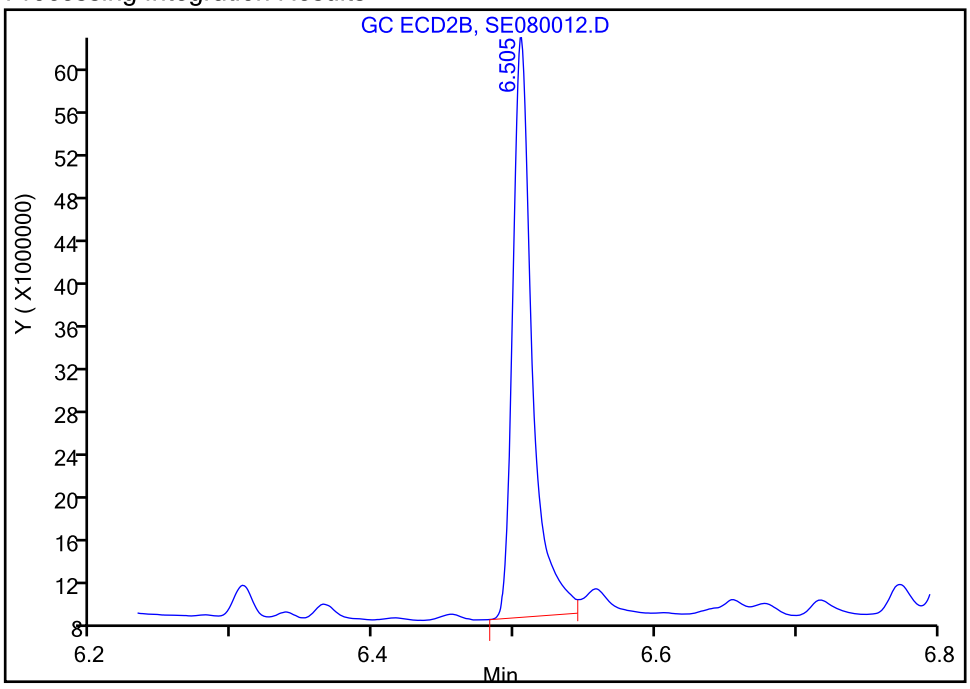
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

5 4-Nitrophenol, CAS: 100-02-7

Signal: 2

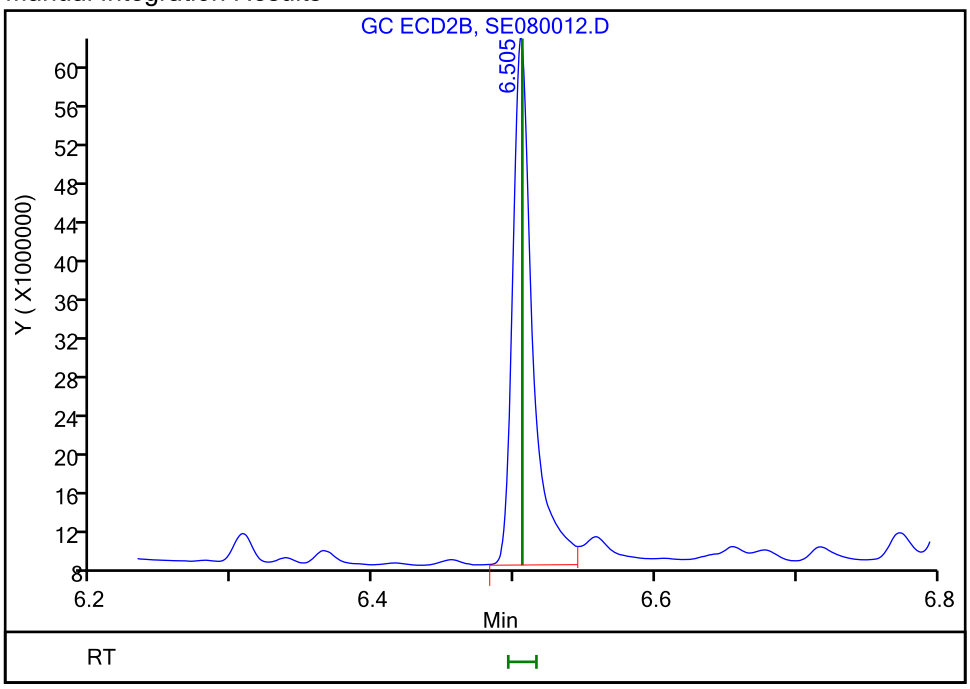
Processing Integration Results

RT: 6.50
Area: 51736440
Amount: 0.174290
Amount Units: ug/ml



Manual Integration Results

RT: 6.50
Area: 52975624
Amount: 0.177152
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

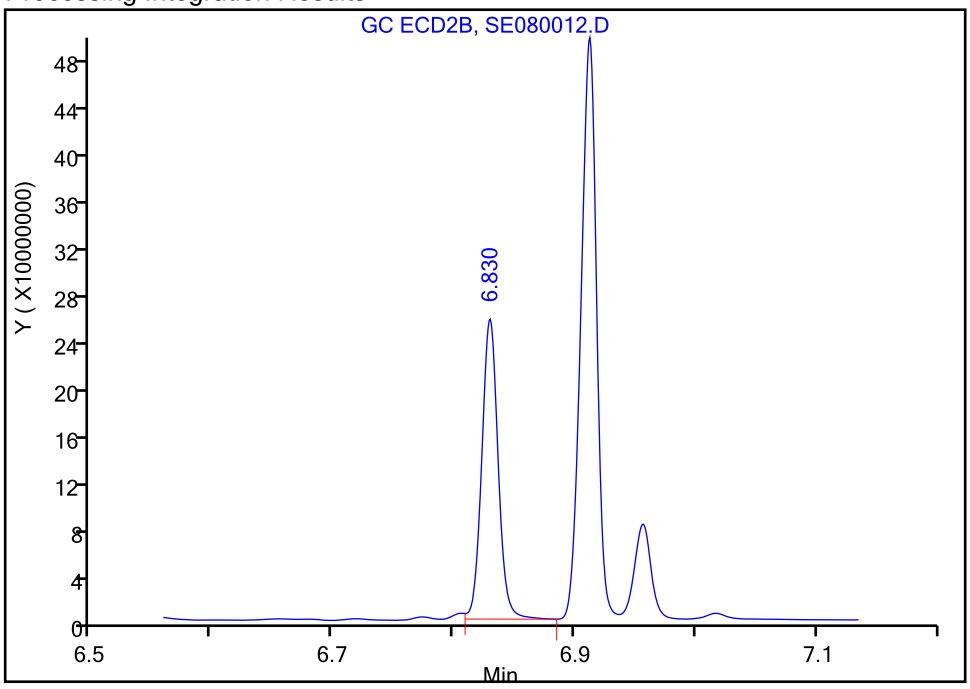
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

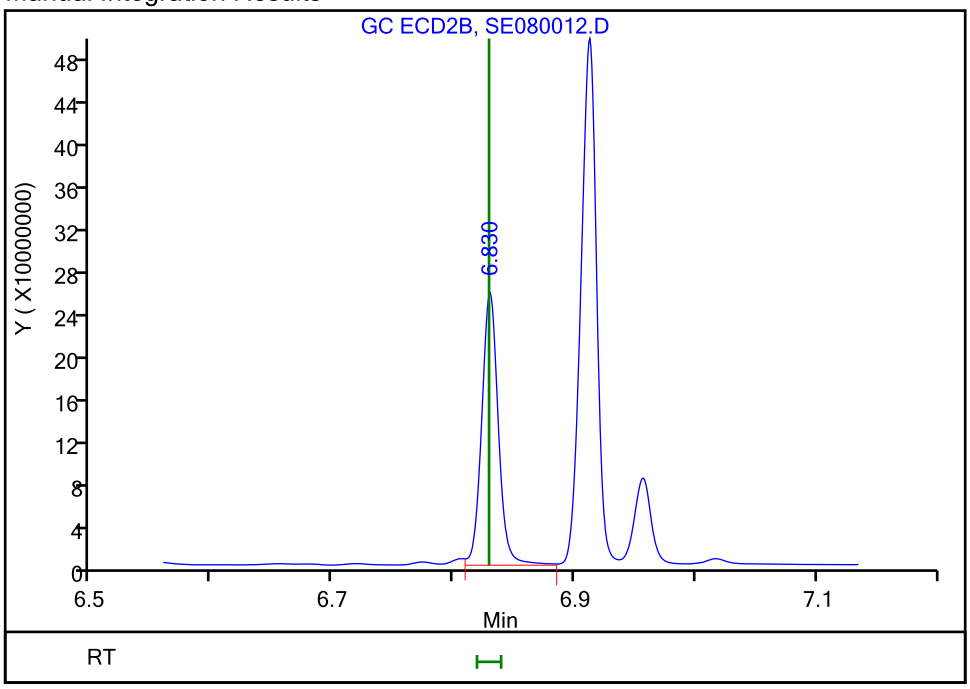
Processing Integration Results

RT: 6.83
Area: 235256676
Amount: 0.169230
Amount Units: ug/ml



Manual Integration Results

RT: 6.83
Area: 240517141
Amount: 0.170851
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

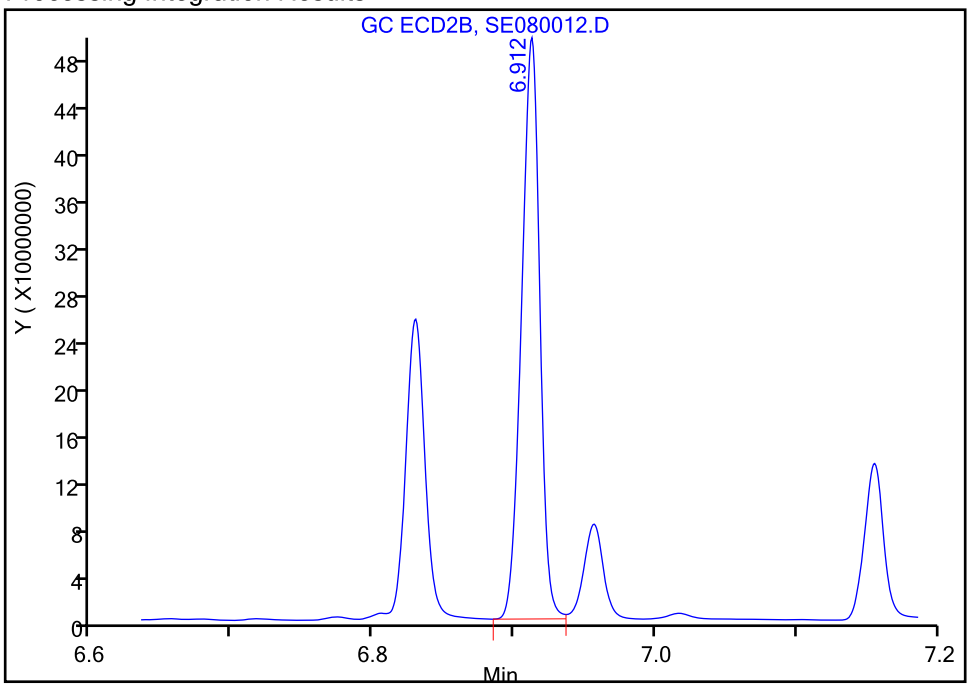
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Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

7 Dicamba, CAS: 1918-00-9

Signal: 2

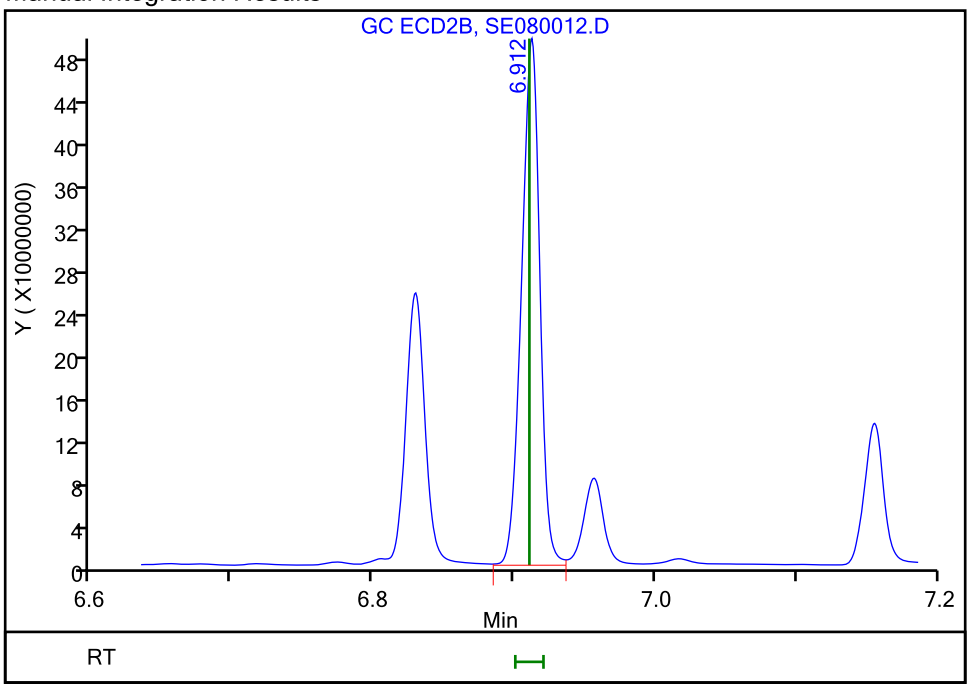
Processing Integration Results

RT: 6.91
Area: 434653021
Amount: 0.087708
Amount Units: ug/ml



Manual Integration Results

RT: 6.91
Area: 438385412
Amount: 0.087518
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

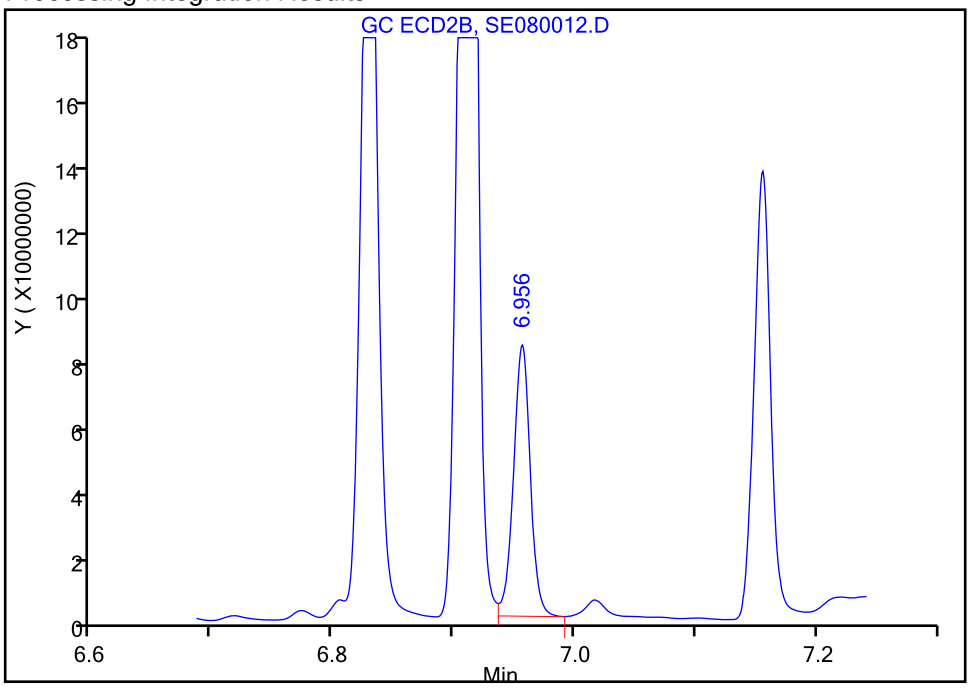
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

8 MCPP, CAS: 93-65-2

Signal: 2

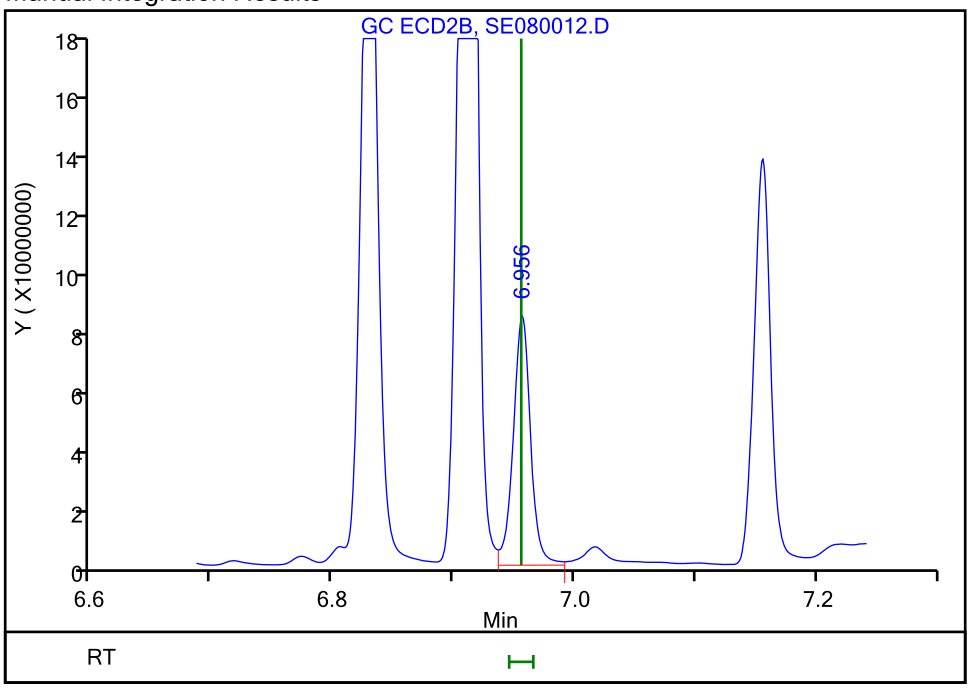
Processing Integration Results

RT: 6.96
Area: 75934344
Amount: 16.692681
Amount Units: ug/ml



Manual Integration Results

RT: 6.96
Area: 79838277
Amount: 17.422724
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

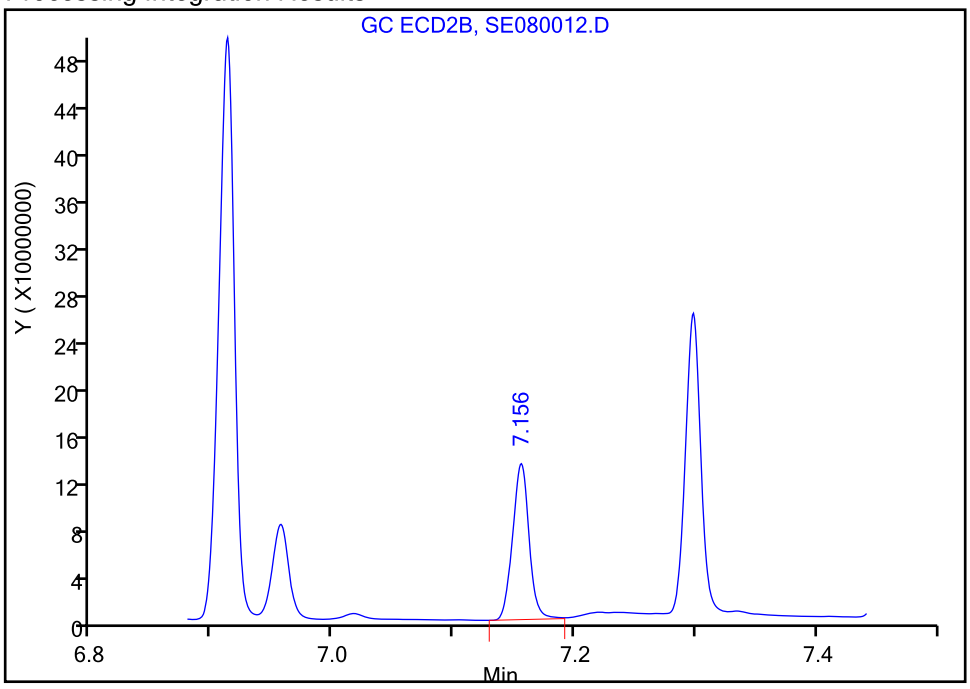
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

9 MCPA, CAS: 94-74-6

Signal: 2

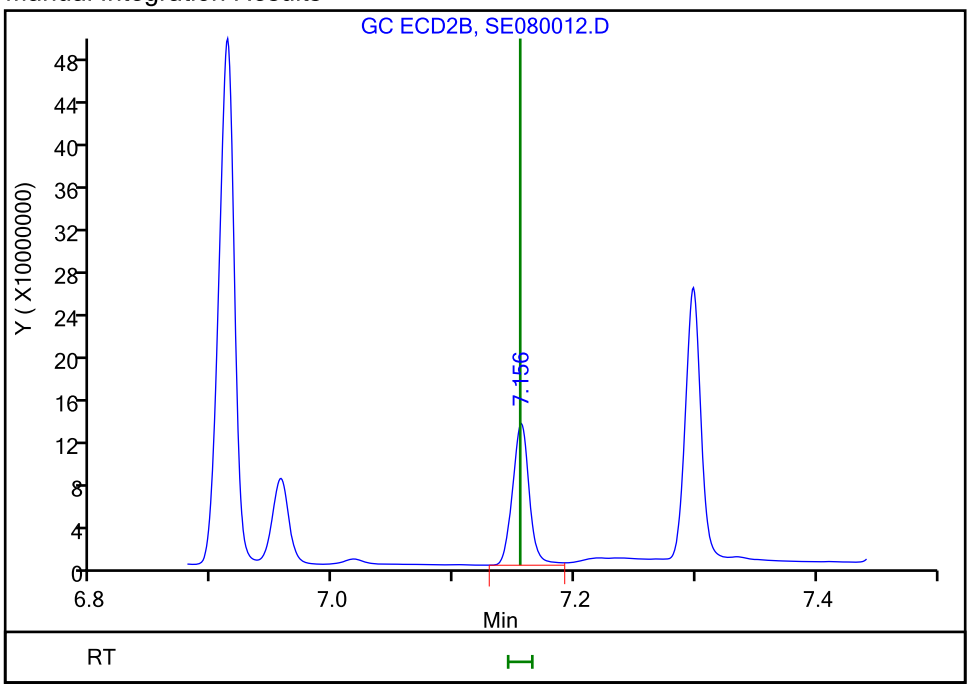
Processing Integration Results

RT: 7.16
Area: 123031336
Amount: 19.557220
Amount Units: ug/ml



Manual Integration Results

RT: 7.16
Area: 125917297
Amount: 20.188282
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

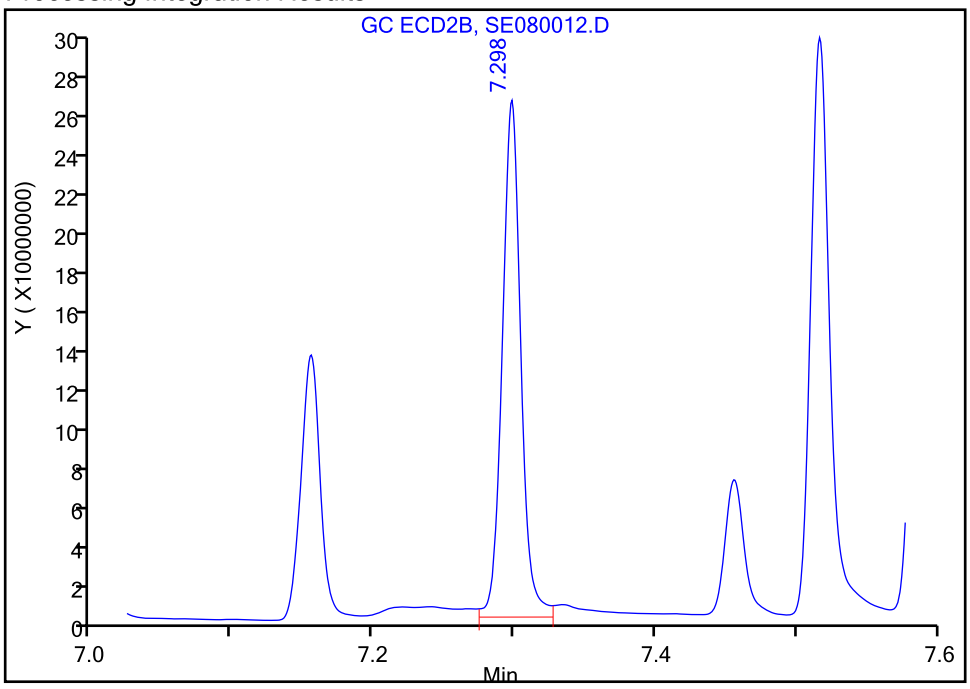
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

10 Dichlorprop, CAS: 120-36-5

Signal: 2

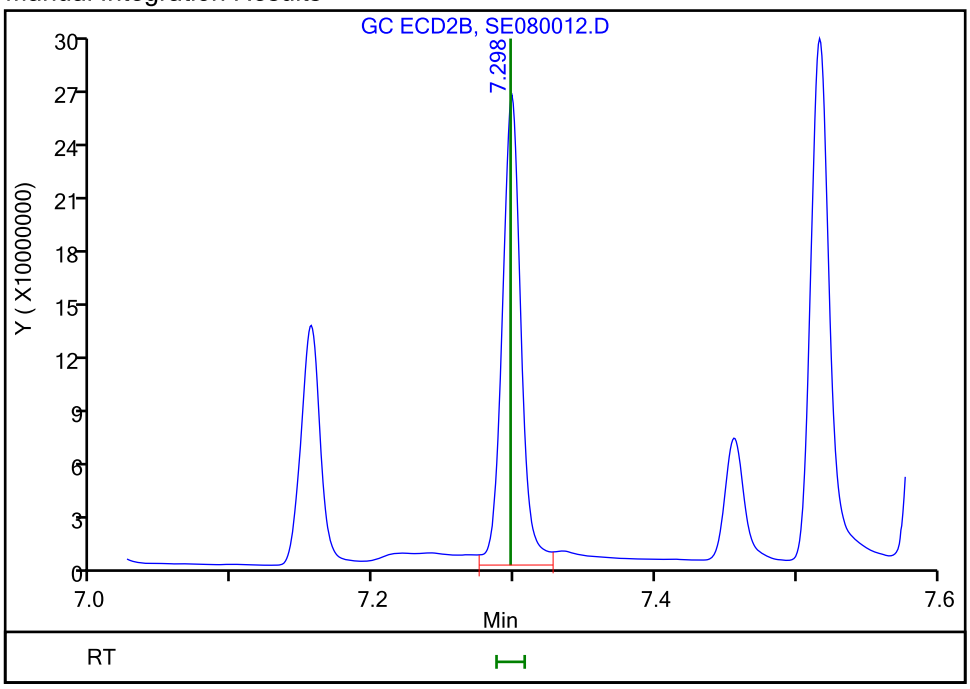
Processing Integration Results

RT: 7.30
Area: 232007263
Amount: 0.166467
Amount Units: ug/ml



Manual Integration Results

RT: 7.30
Area: 236765319
Amount: 0.167941
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

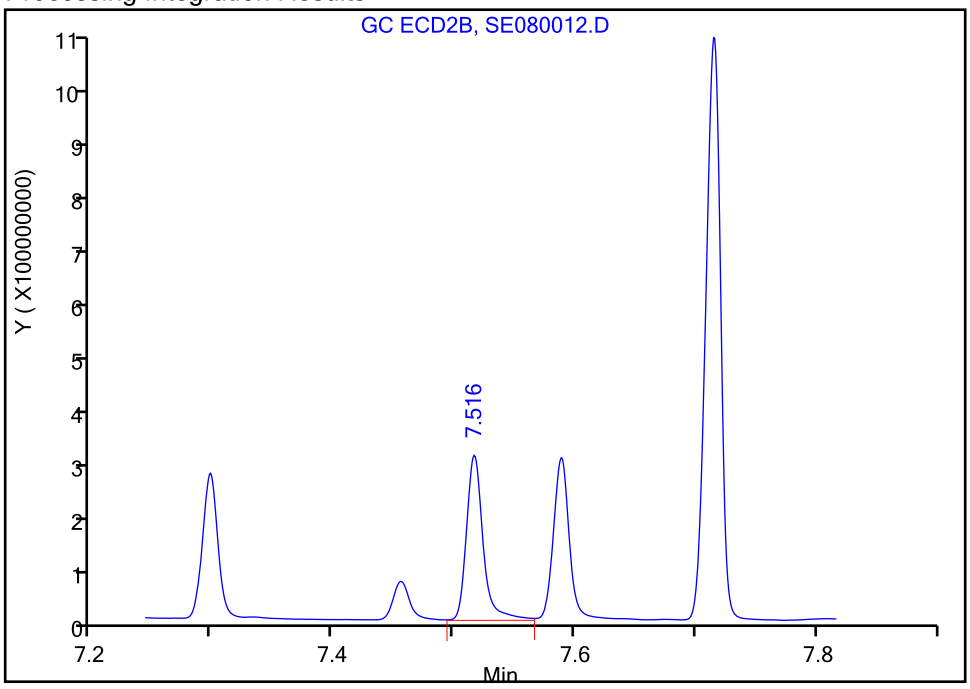
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

11 2,4-D, CAS: 94-75-7

Signal: 2

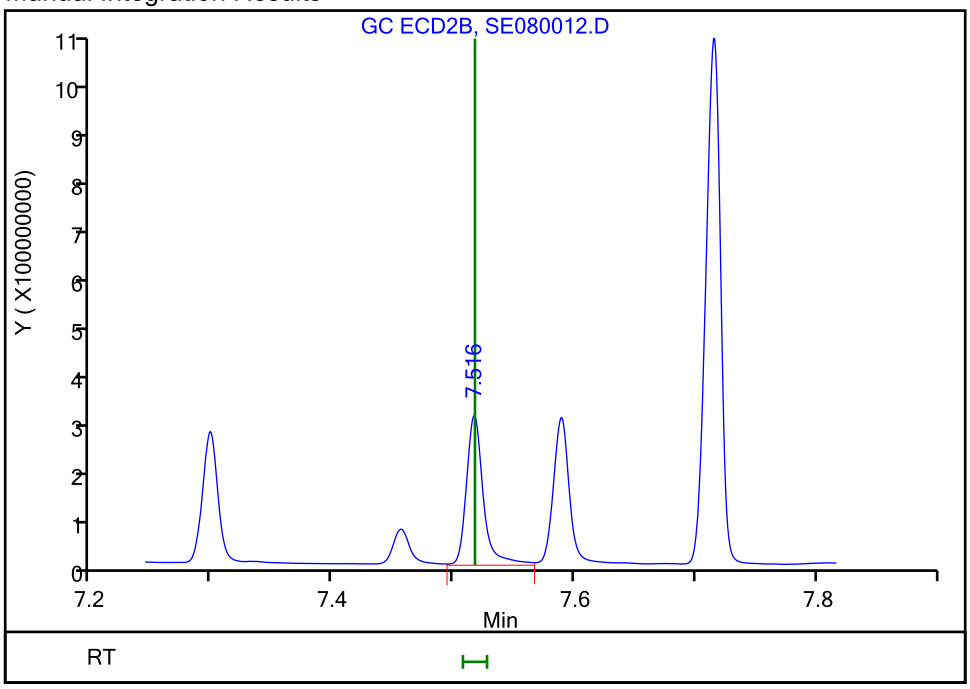
Processing Integration Results

RT: 7.52
Area: 273831818
Amount: 0.173743
Amount Units: ug/ml



Manual Integration Results

RT: 7.52
Area: 280829565
Amount: 0.176230
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

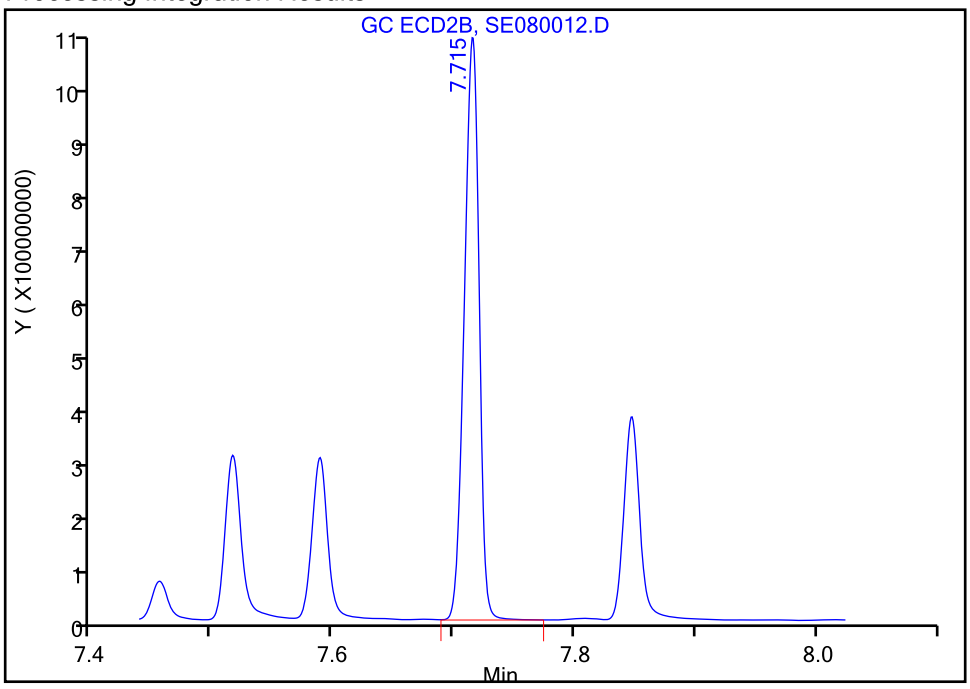
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

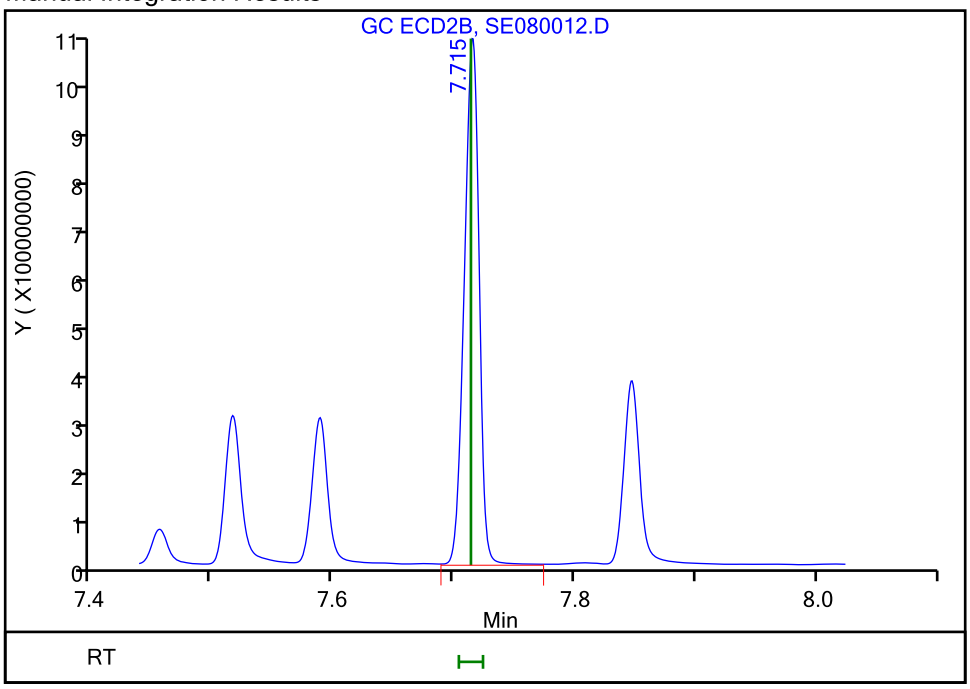
Processing Integration Results

RT: 7.71
Area: 852692667
Amount: 0.045595
Amount Units: ug/ml



Manual Integration Results

RT: 7.71
Area: 861630277
Amount: 0.045810
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

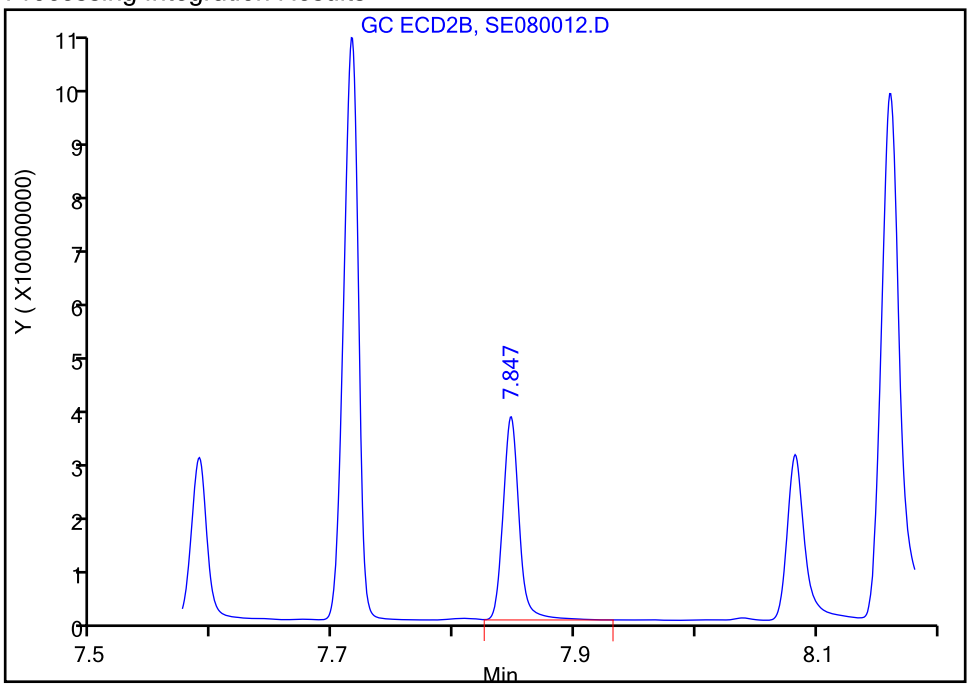
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

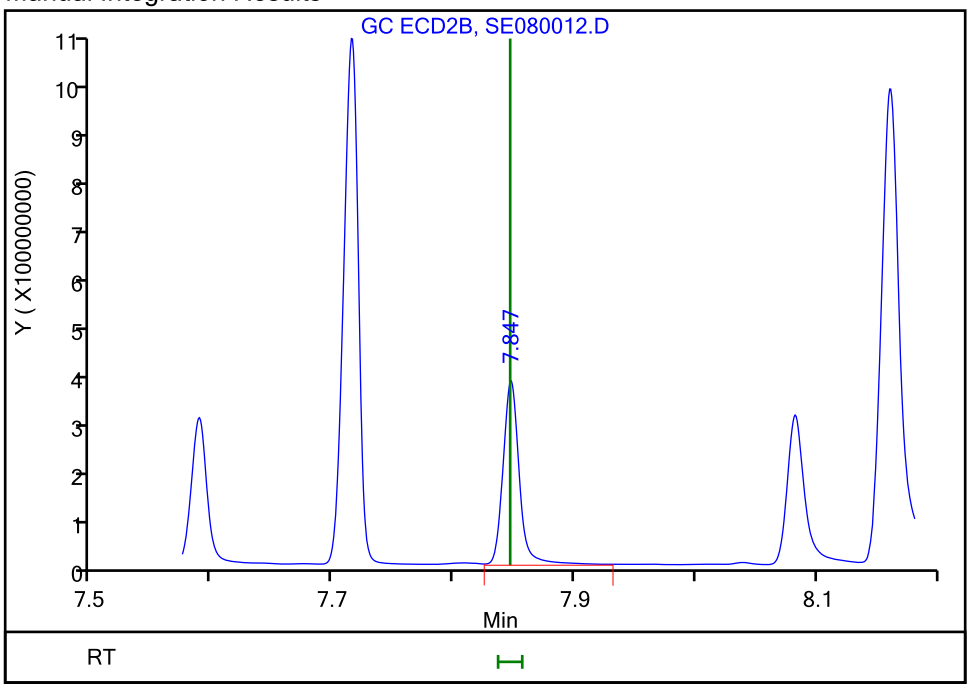
Processing Integration Results

RT: 7.85
Area: 324462017
Amount: 0.044325
Amount Units: ug/ml



Manual Integration Results

RT: 7.85
Area: 335327121
Amount: 0.045368
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

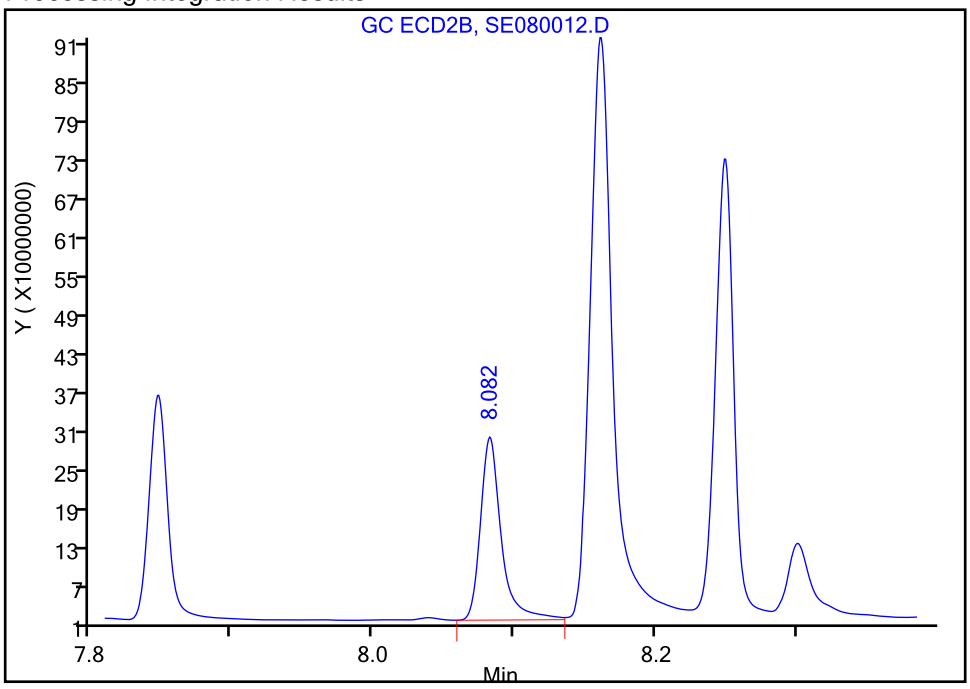
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

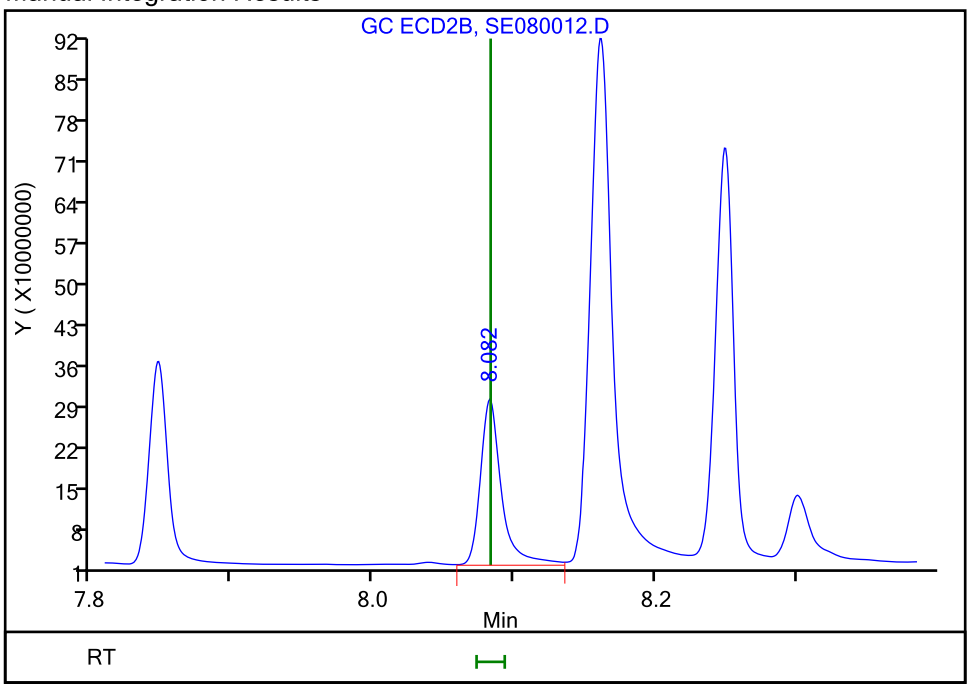
Processing Integration Results

RT: 8.08
Area: 292476486
Amount: 0.044574
Amount Units: ug/ml



Manual Integration Results

RT: 8.08
Area: 298977240
Amount: 0.044982
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

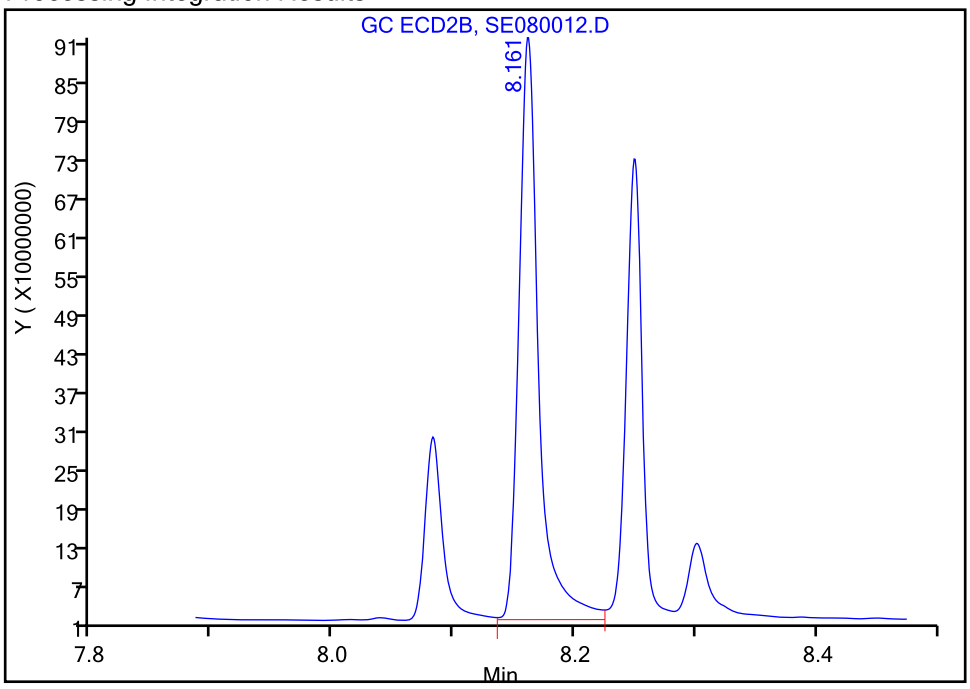
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

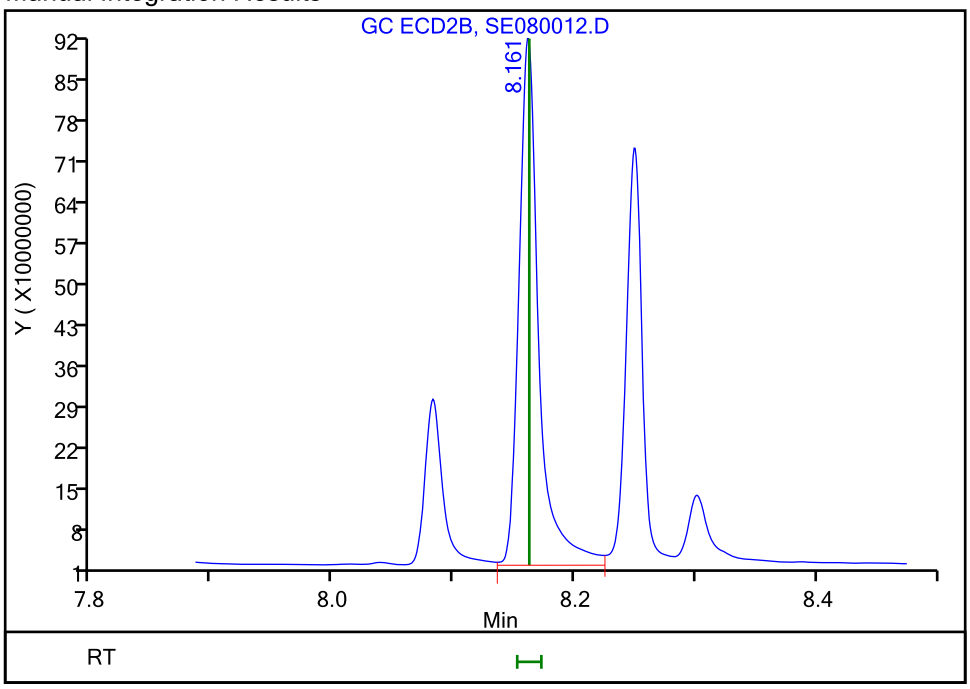
Processing Integration Results

RT: 8.16
Area: 1033507912
Amount: 0.185123
Amount Units: ug/ml



Manual Integration Results

RT: 8.16
Area: 1043446048
Amount: 0.185485
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

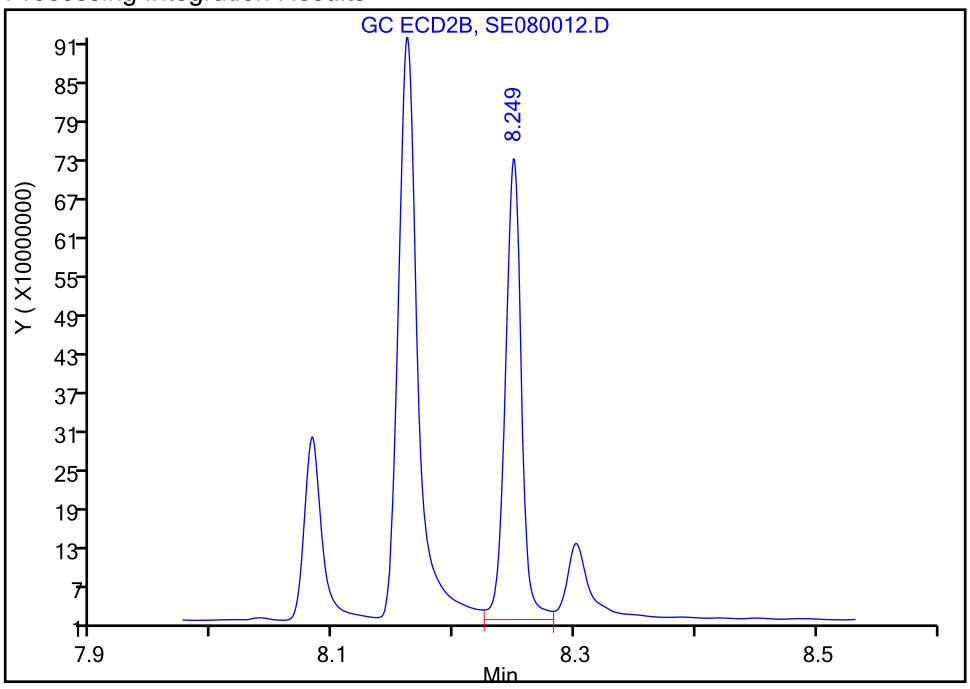
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

17 Dinoseb, CAS: 88-85-7

Signal: 2

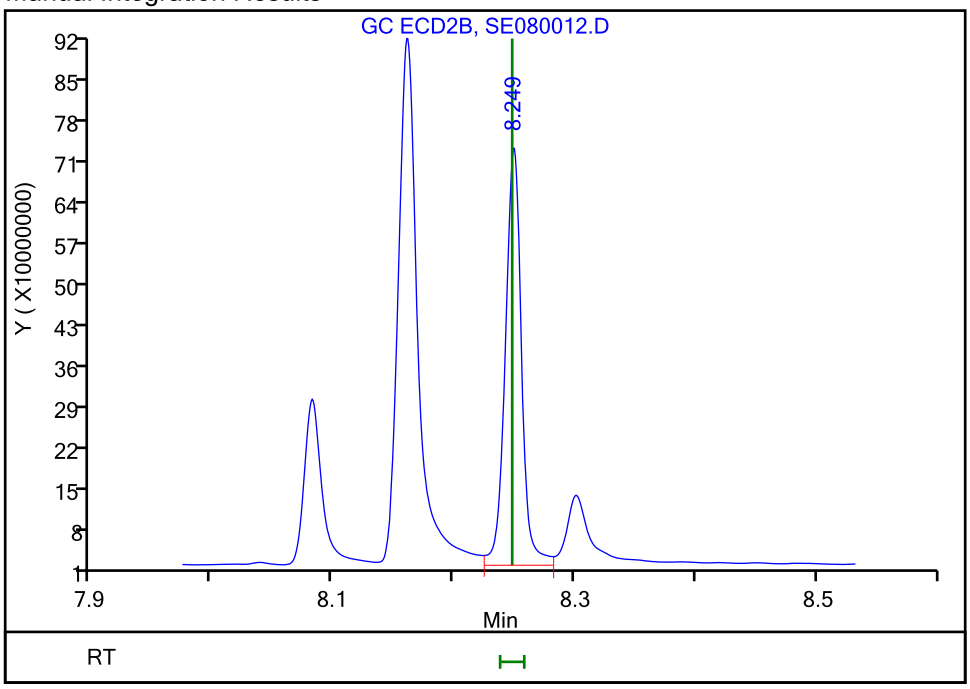
Processing Integration Results

RT: 8.25
Area: 664185314
Amount: 0.147454
Amount Units: ug/ml



Manual Integration Results

RT: 8.25
Area: 670832472
Amount: 0.151471
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

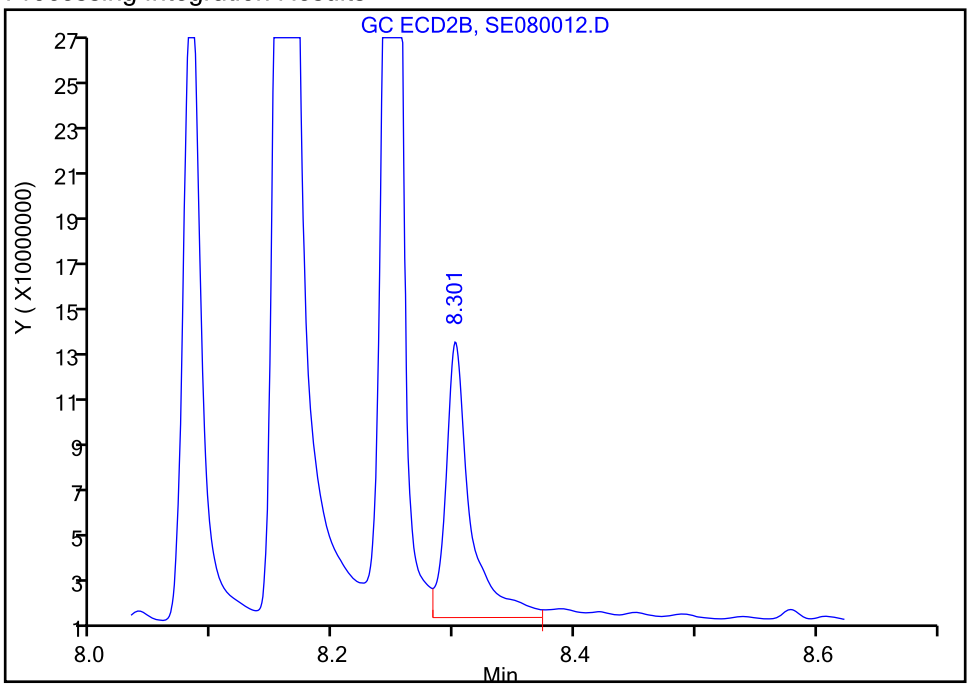
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

16 2,4-DB, CAS: 94-82-6

Signal: 2

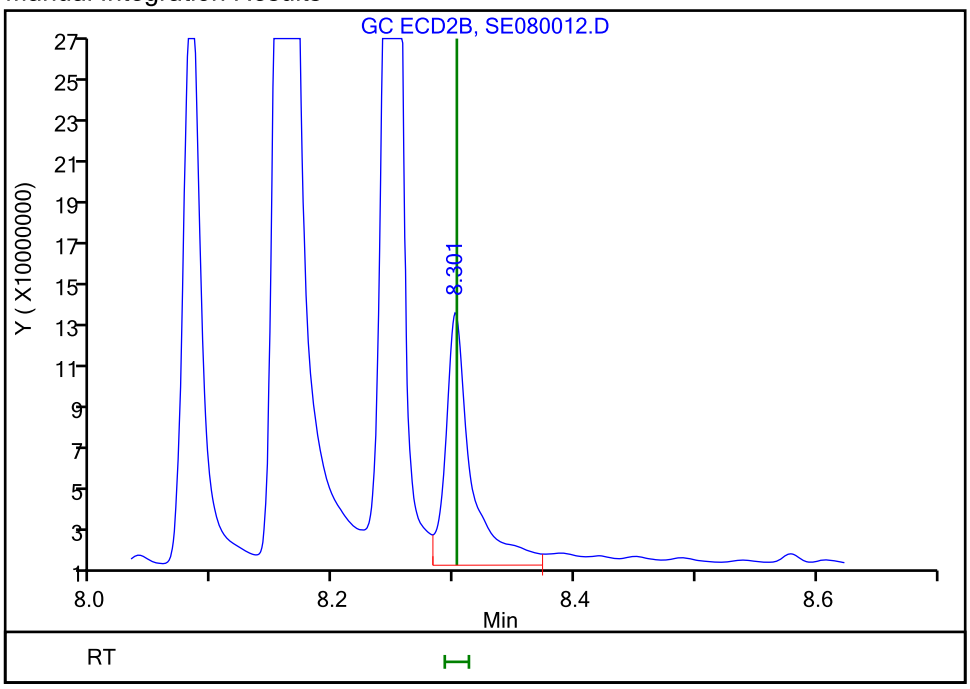
Processing Integration Results

RT: 8.30
Area: 164528949
Amount: 0.167101
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 175272842
Amount: 0.177709
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

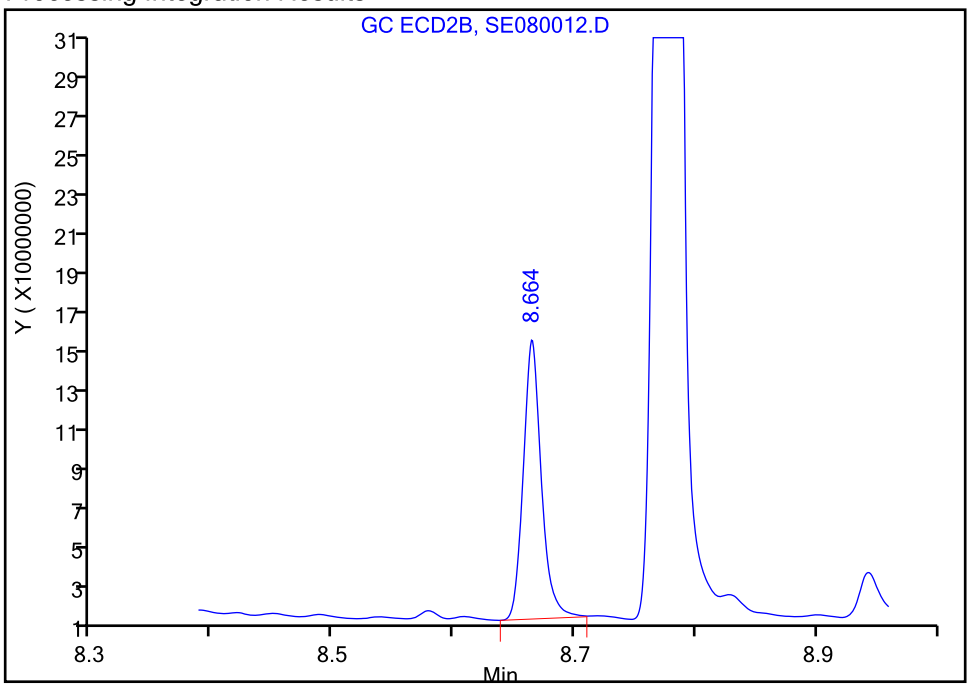
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D
Injection Date: 08-May-2018 14:35:04 Instrument ID: CSGS
Lims ID: icv herb
Client ID:
Operator ID: GEM ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

18 Bentazon, CAS: 25057-89-0

Signal: 2

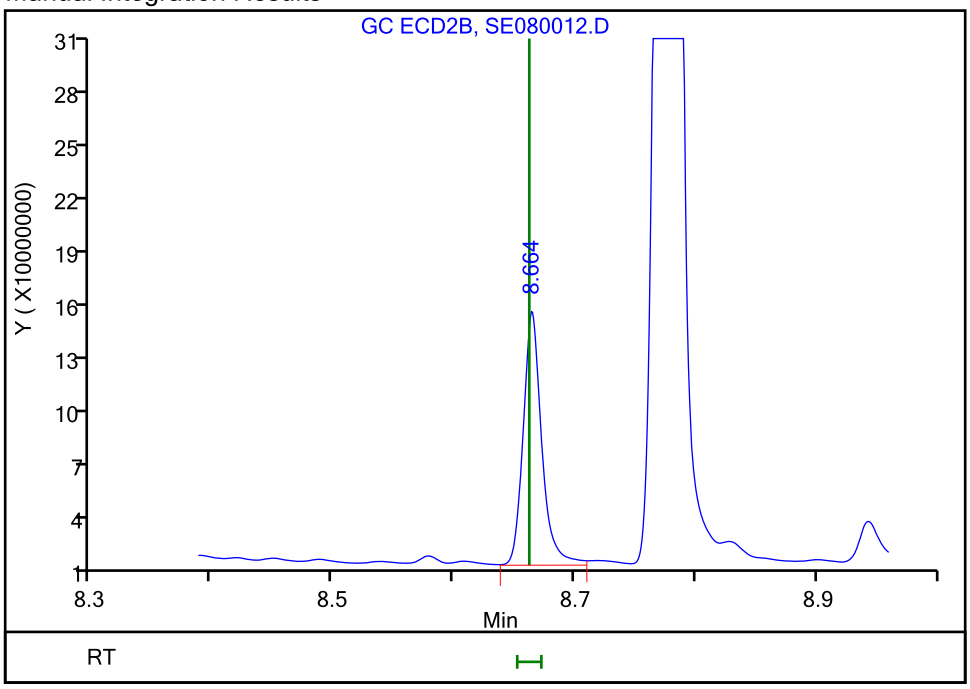
Processing Integration Results

RT: 8.66
Area: 144381017
Amount: 0.181133
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 149493508
Amount: 0.185944
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

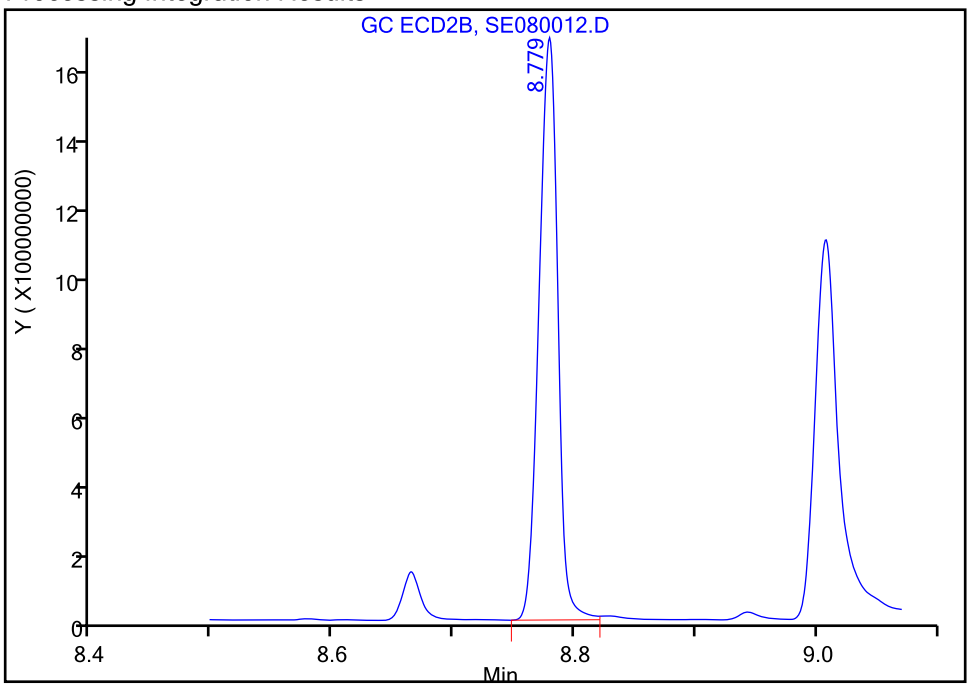
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

20 DCPA, CAS: 1861-32-1

Signal: 2

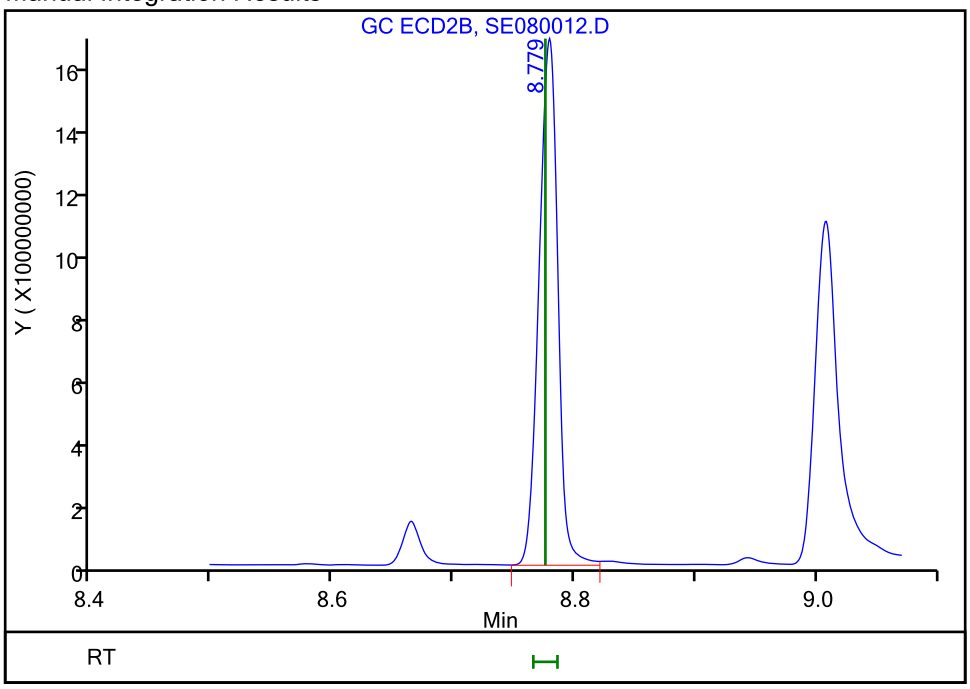
Processing Integration Results

RT: 8.78
Area: 1816748627
Amount: 0.185639
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 1822835497
Amount: 0.185604
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

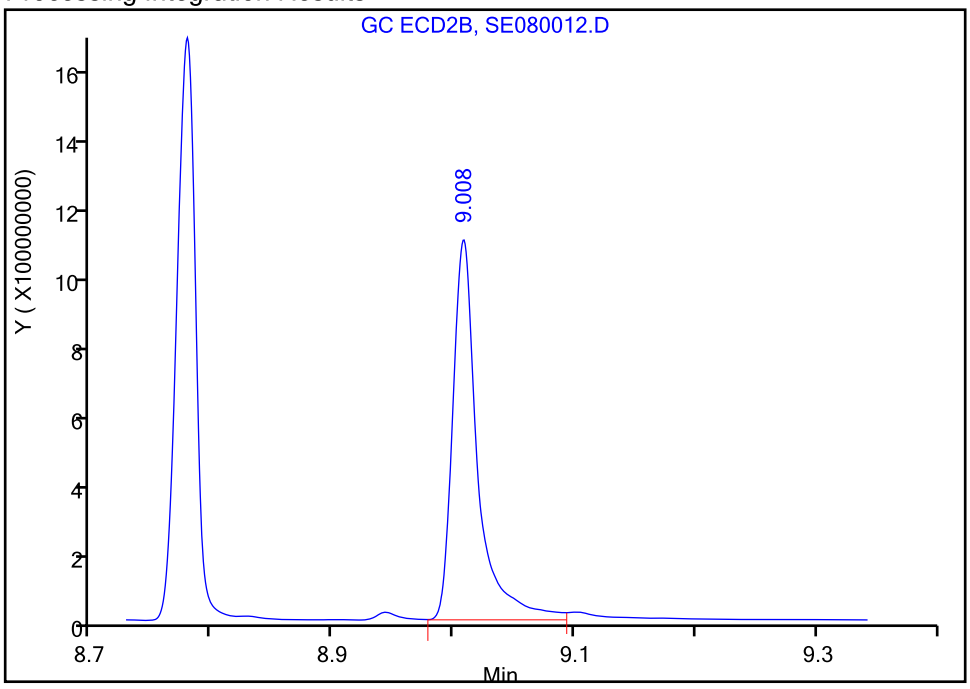
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

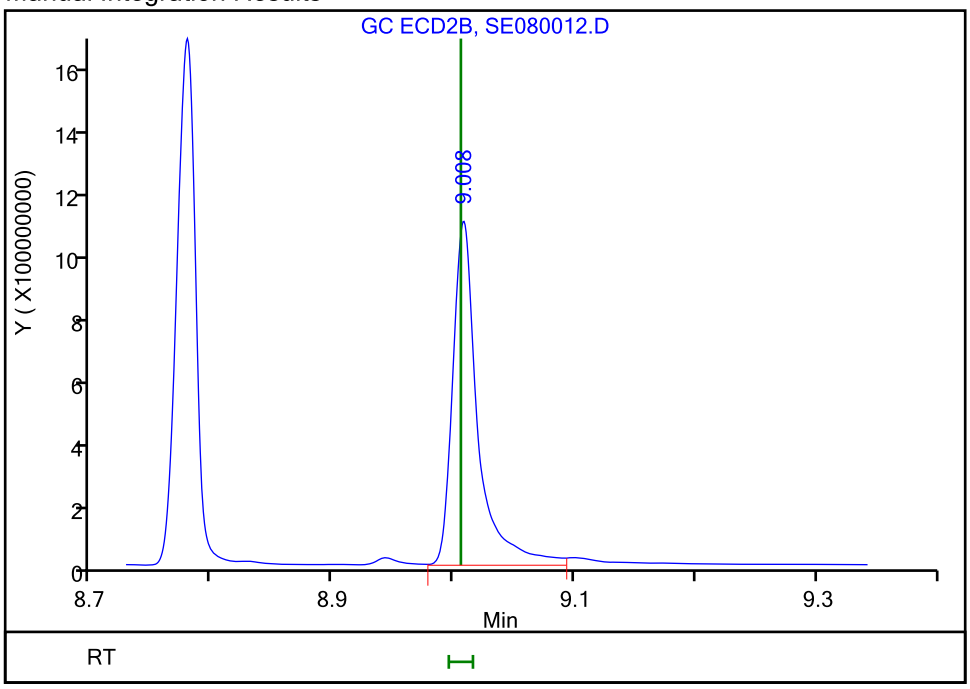
Processing Integration Results

RT: 9.01
Area: 1583160054
Amount: 0.152106
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 1596868377
Amount: 0.151259
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

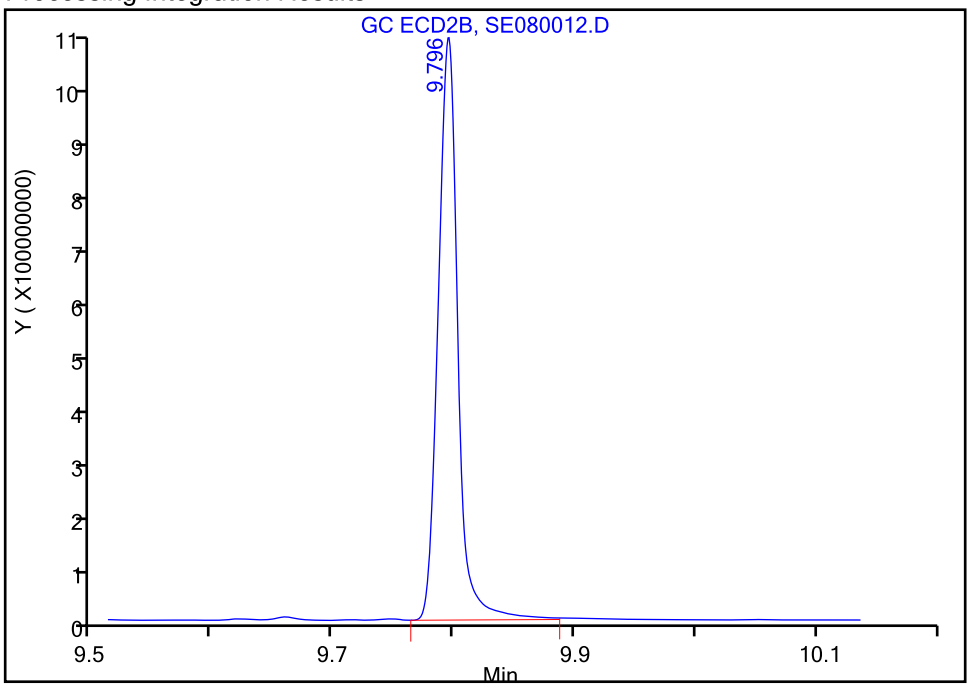
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080012.D				
Injection Date:	08-May-2018 14:35:04	Instrument ID:	CSGS		
Lims ID:	icv herb				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

21 Acifluorfen, CAS: 50594-66-6

Signal: 2

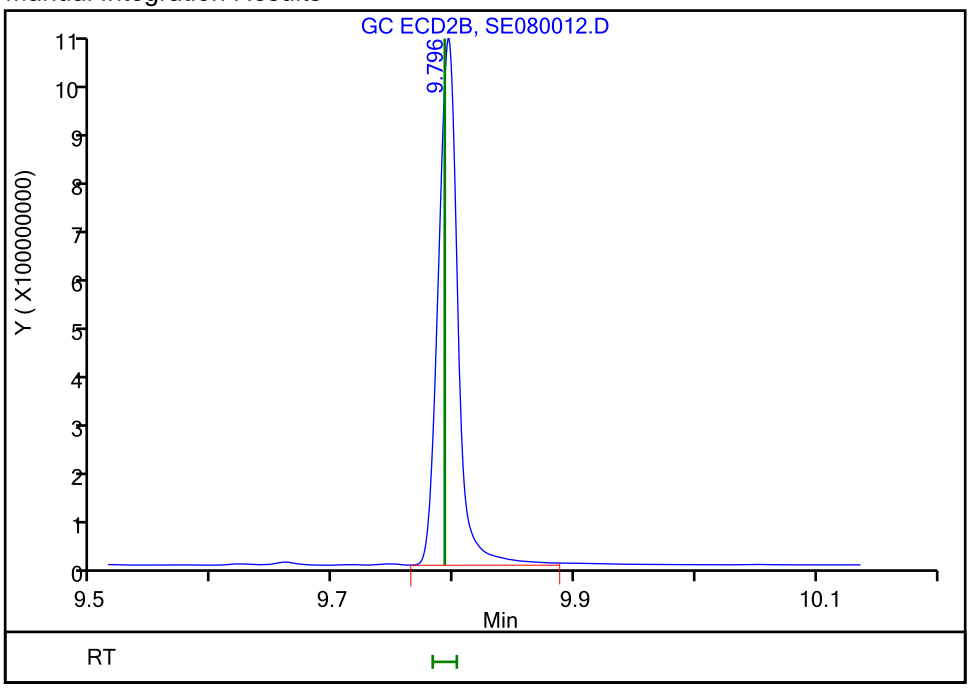
Processing Integration Results

RT: 9.80
Area: 1182788136
Amount: 0.148067
Amount Units: ug/ml



Manual Integration Results

RT: 9.80
Area: 1189239771
Amount: 0.160100
Amount Units: ug/ml



Reviewer: kellarj, 08-May-2018 16:12:13

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	524076394	407346190		0.0777	0.100	-22.3*	20.0
3,5-Dichlorobenzoic acid	Ave	321415612	283173340		0.0881	0.100	-11.9	20.0
4-Nitrophenol	Ave	92458216	91901530		0.0994	0.100	-0.6	20.0
Dicamba	Ave	1077009527	922446760		0.0428	0.0500	-14.4	20.0
MCPP	Qua		469003		9.85	10.0	-1.5	20.0
MCPA	Ave	925968	935489		10.1	10.0	1.0	20.0
Dichlorprop	Ave	277497963	258402050		0.0931	0.100	-6.9	20.0
2,4-D	Ave	302399622	279399860		0.0924	0.100	-7.6	20.0
Pentachlorophenol	Ave	5383895550	4633460080		0.0215	0.0250	-13.9	20.0
Silvex (2,4,5-TP)	Ave	1878728542	1676673120		0.0223	0.0250	-10.8	20.0
Chloramben	Qua		1205892700		0.0819	0.100	-18.1	20.0
2,4,5-T	Ave	2193840481	2024242400		0.0231	0.0250	-7.7	20.0
2,4-DB	Qua		131484440		0.0888	0.100	-11.2	20.0
Dinoseb	Ave	1223895982	1063035430		0.0869	0.100	-13.1	20.0
Bentazon	Ave	287551968	263316600		0.0916	0.100	-8.4	20.0
Picloram	Qua		1934015400		0.0834	0.100	-16.6	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	3293157561	2909428780		0.0883	0.100	-11.7	20.0
Acifluorfen	Qua		1962049570		0.0869	0.100	-13.1	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	211477985	183772960		0.0869	0.100	-13.1	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.58	2.56	2.60
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.25	6.24	6.26
Dicamba	6.72	6.71	6.73
MCPP	6.87	6.86	6.88
MCPA	6.99	6.98	7.00
Dichlorprop	7.18	7.17	7.19
2,4-D	7.33	7.32	7.34
Pentachlorophenol	7.67	7.66	7.68
Silvex (2,4,5-TP)	7.77	7.76	7.78
Chloramben	7.86	7.85	7.87
2,4,5-T	7.93	7.92	7.94
2,4-DB	8.18	8.17	8.19
Dinoseb	8.22	8.21	8.23
Bentazon	8.30	8.29	8.31
Picloram	8.53	8.52	8.54
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	8.61	8.63
Acifluorfen	9.67	9.66	9.68
2,4-Dichlorophenylacetic acid (Surr)	6.68	6.67	6.69

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 21:40:11 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-028
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:37:48 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:21:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.578	2.579	-0.001	40734619	0.1000	0.0777	
2	2.632	2.632	0.000	124683071	0.1000	0.0774	
						RPD = 0.48	
2 2,6-Dichlorophenol							
1	5.016	5.015	0.001	8885882	NC	NC	
2	5.102	5.102	0.000	45742372	NC	NC	
						RPD = 7.11	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	104333704	NC	NC	
2	5.776	5.776	0.000	435611631	NC	NC	
						RPD = 2.76	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	28317334	0.1000	0.0881	
2	6.116	6.116	0.000	146847224	0.1000	0.0817	
						RPD = 7.52	
5 4-Nitrophenol							
1	6.252	6.253	-0.001	9190153	0.1000	0.0994	
2	6.505	6.505	0.000	26148392	0.1000	0.0874	
						RPD = 12.80	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.683	6.683	0.000	18377296	0.1000	0.0869	M
2	6.828	6.829	-0.001	116117949	0.1000	0.0825	M
						RPD = 5.21	
7 Dicamba							M
1	6.720	6.720	0.000	46122338	0.0500	0.0428	M
2	6.911	6.910	0.001	205108302	0.0500	0.0409	M
						RPD = 4.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	4690034	10.0	9.85	M
2	6.956	6.955	0.001	42581663	10.0	8.89	M
						RPD = 10.31	
9 MCPA							M
1	6.994	6.994	0.000	9354886	10.0	10.1	M
2	7.153	7.155	-0.002	65630302	10.0	11.6	M
						RPD = 13.55	
10 Dichlorprop							M
1	7.180	7.180	0.000	25840205	0.1000	0.0931	M
2	7.297	7.297	0.000	117222842	0.1000	0.0831	M
						RPD = 11.31	
11 2,4-D							M
1	7.327	7.326	0.001	27939986	0.1000	0.0924	M
2	7.517	7.517	0.000	133627356	0.1000	0.0839	M
						RPD = 9.69	
12 Pentachlorophenol							M
1	7.673	7.674	-0.001	115836502	0.0250	0.0215	M
2	7.713	7.714	-0.001	399815476	0.0250	0.0213	M
						RPD = 1.21	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	41916828	0.0250	0.0223	M
2	7.847	7.846	0.001	155993801	0.0250	0.0211	M
						RPD = 5.56	
14 Chloramben							M
1	7.857	7.855	0.002	120589270	0.1000	0.0819	M
2	8.162	8.162	0.000	457969533	0.1000	0.0814	M
						RPD = 0.55	
15 2,4,5-T							M
1	7.929	7.929	0.000	50606060	0.0250	0.0231	M
2	8.083	8.083	0.000	135127386	0.0250	0.0203	M
						RPD = 12.61	
16 2,4-DB							M
1	8.176	8.175	0.001	13148444	0.1000	0.0888	M
2	8.302	8.302	0.000	91637209	0.1000	0.0929	M
						RPD = 4.51	
17 Dinoseb							M
1	8.222	8.224	-0.002	106303543	0.1000	0.0869	M
2	8.248	8.248	0.000	310276845	0.1000	0.0737	M
						RPD = 16.39	
18 Bentazon							M
1	8.301	8.300	0.001	26331660	0.1000	0.0916	M
2	8.663	8.662	0.001	67492156	0.1000	0.0839	M
						RPD = 8.69	
19 Picloram							M
1	8.530	8.529	0.001	193401540	0.1000	0.0834	M
2	9.007	9.005	0.002	686881952	0.1000	0.0704	M
						RPD = 16.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	290942878	0.1000	0.0883	M
2	8.777	8.775	0.002	842841434	0.1000	0.0858	M
						RPD = 2.90	
21 Acifluorfen							M
1	9.667	9.666	0.001	196204957	0.1000	0.0869	M
2	9.793	9.792	0.001	538041096	0.1000	0.0817	
						RPD = 6.20	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

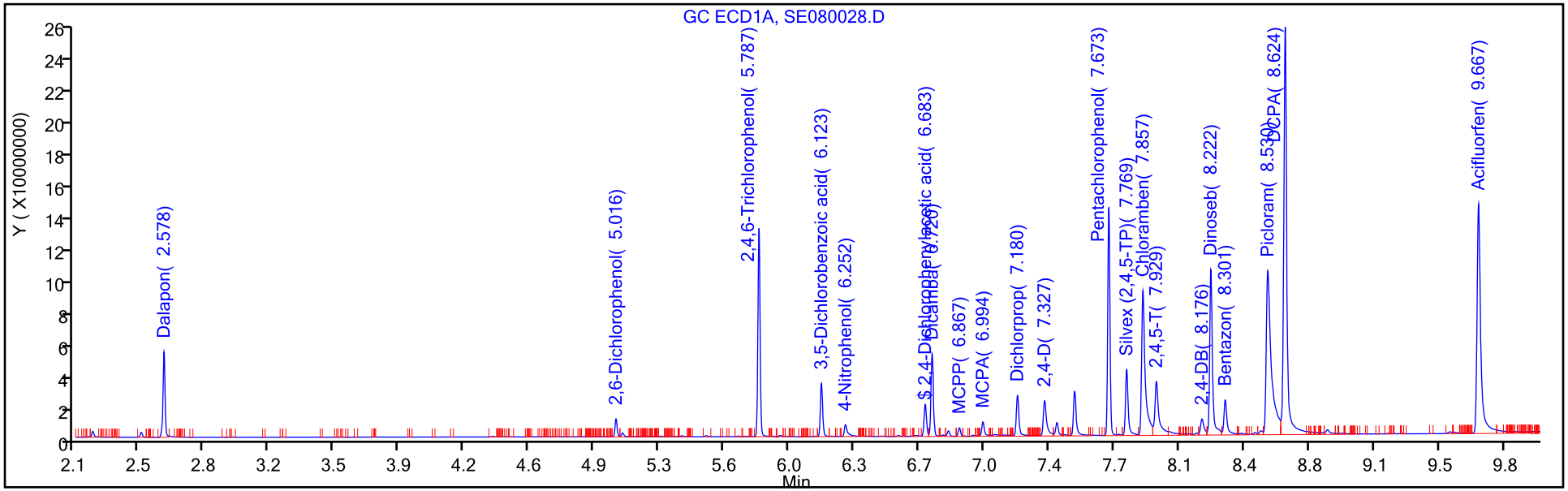
Report Date: 09-May-2018 09:37:54 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

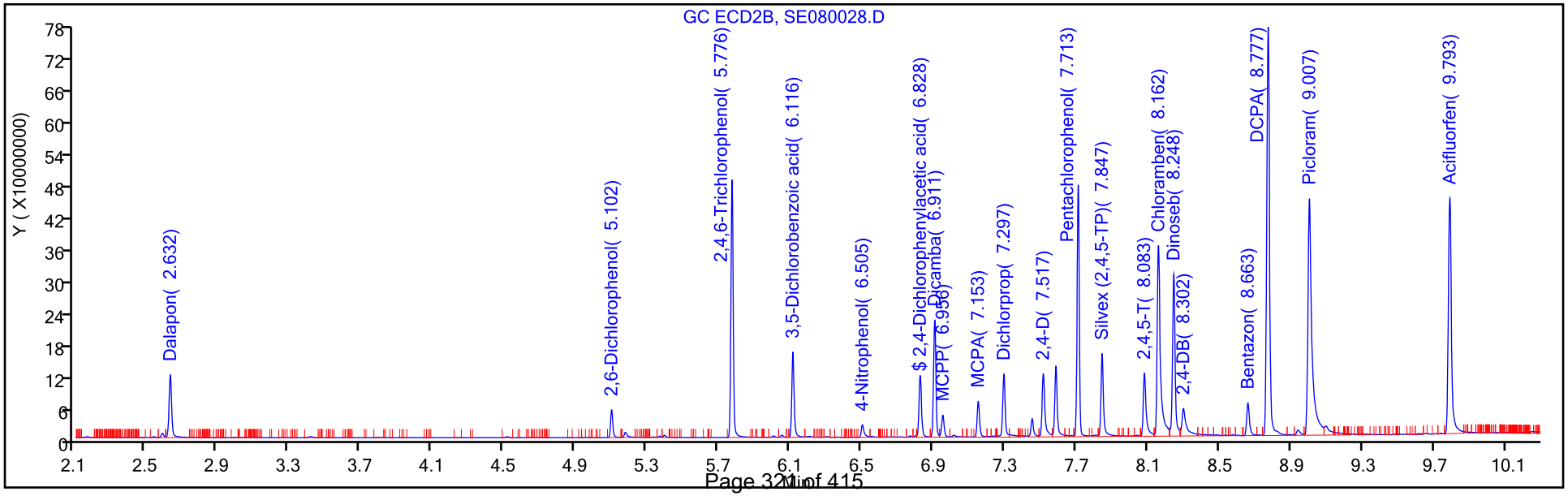
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D

Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

TestAmerica Savannah

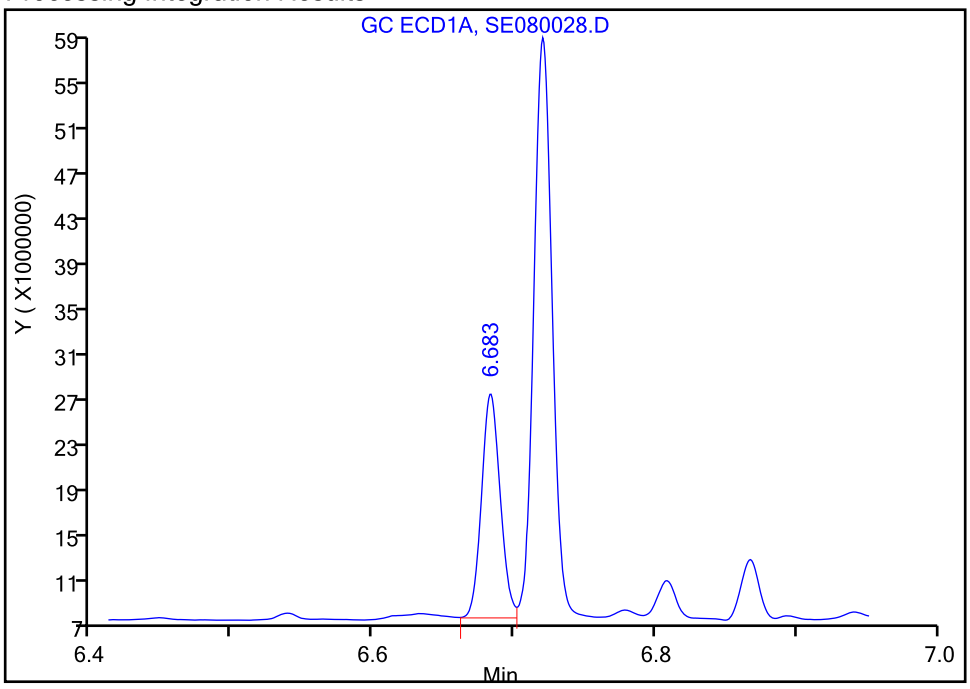
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 1

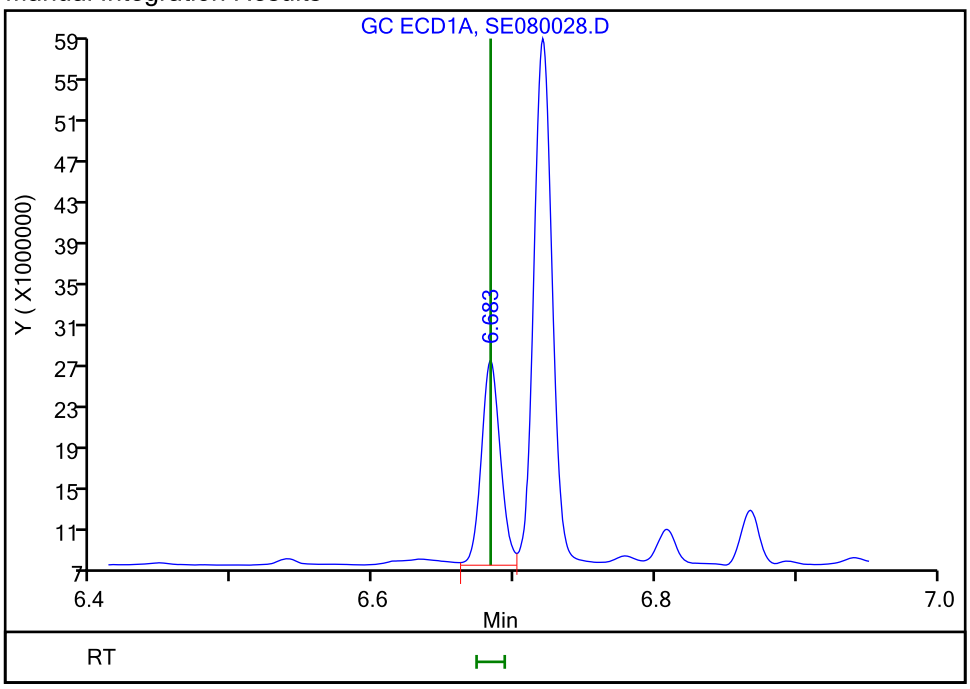
Processing Integration Results

RT: 6.68
Area: 17876221
Amount: 0.084530
Amount Units: ug/ml



Manual Integration Results

RT: 6.68
Area: 18377296
Amount: 0.086899
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

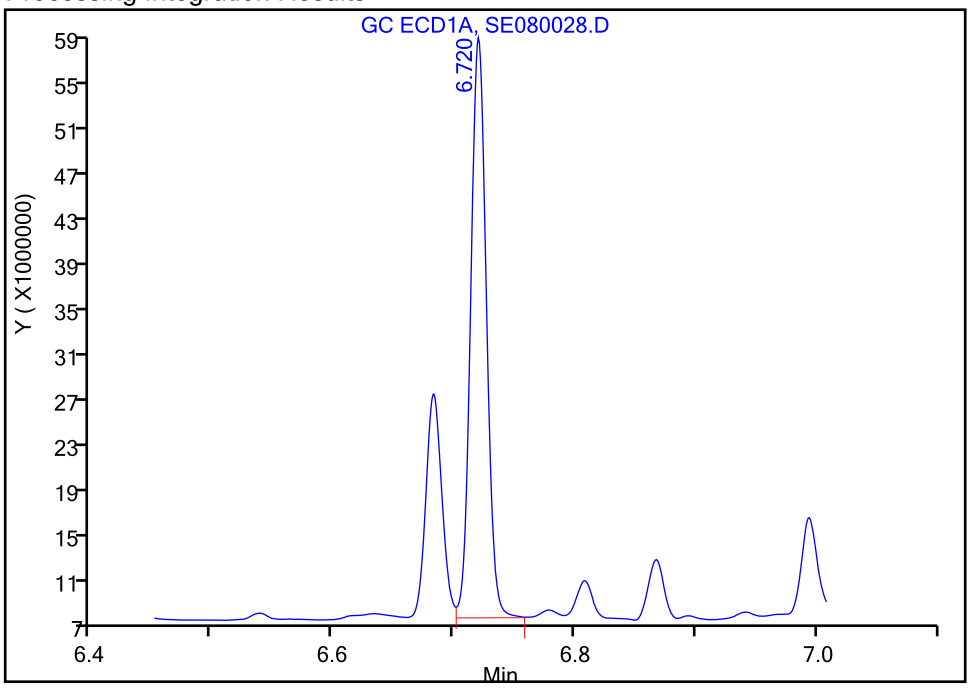
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

7 Dicamba, CAS: 1918-00-9

Signal: 1

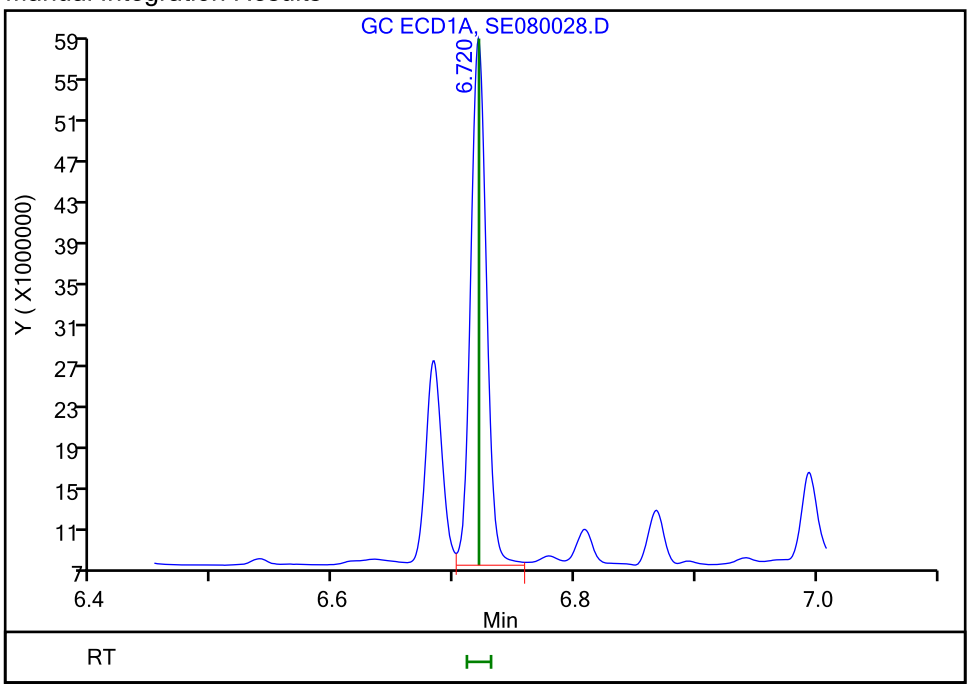
Processing Integration Results

RT: 6.72
Area: 45383724
Amount: 0.042139
Amount Units: ug/ml



Manual Integration Results

RT: 6.72
Area: 46122338
Amount: 0.042824
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

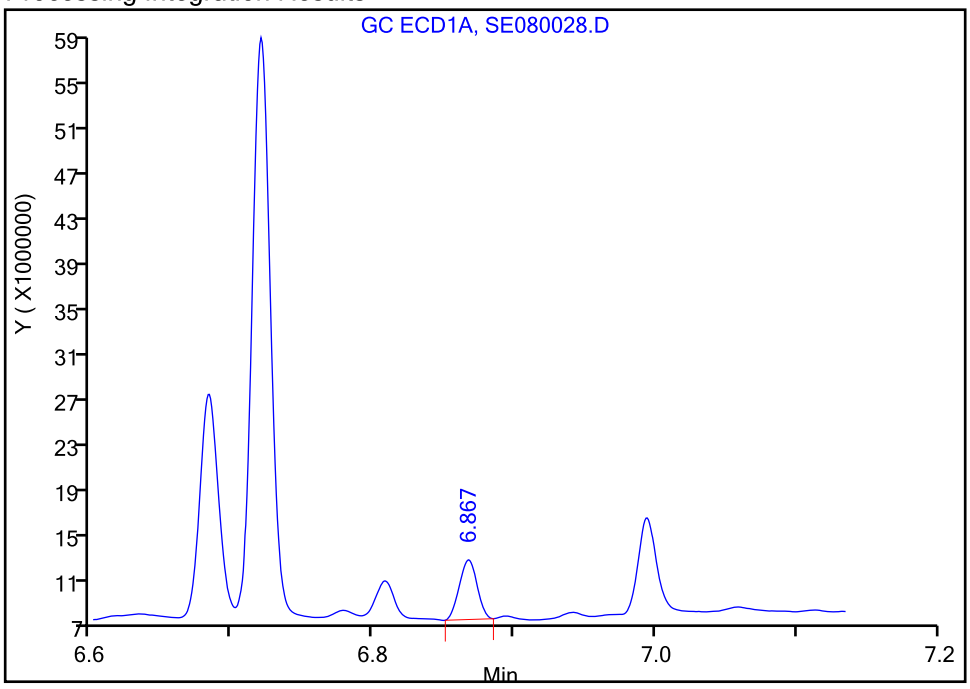
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

8 MCPP, CAS: 93-65-2

Signal: 1

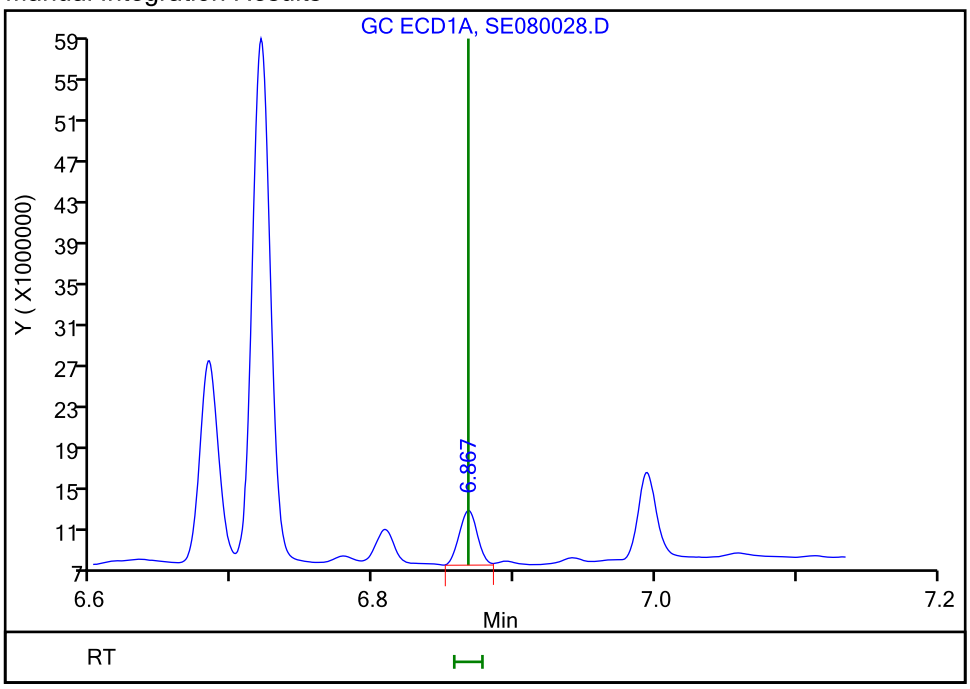
Processing Integration Results

RT: 6.87
Area: 4516934
Amount: 9.550371
Amount Units: ug/ml



Manual Integration Results

RT: 6.87
Area: 4690034
Amount: 9.853576
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:14
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

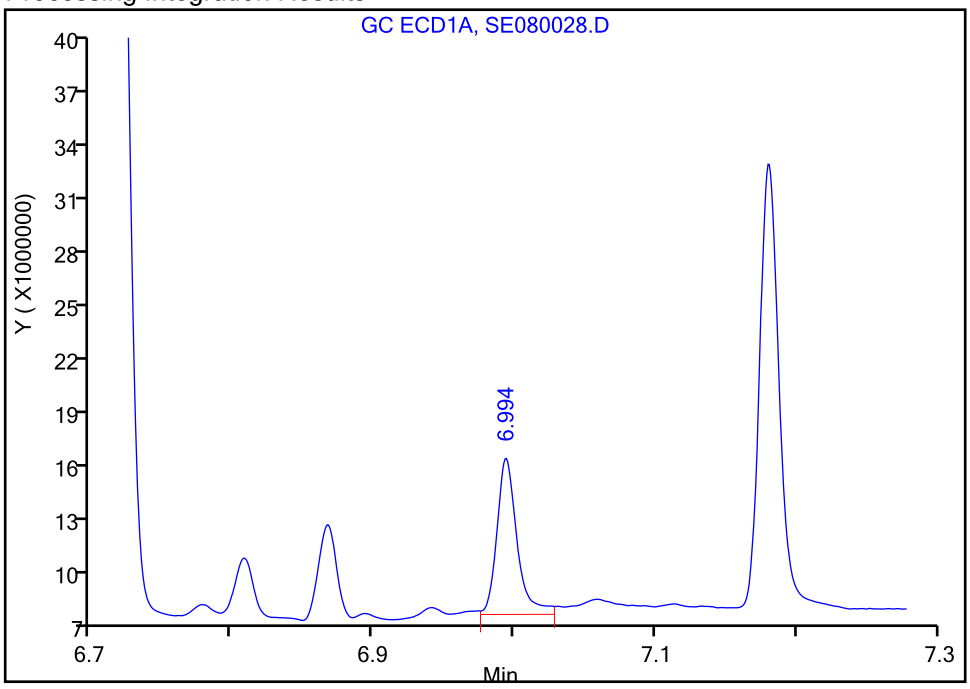
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

9 MCPA, CAS: 94-74-6

Signal: 1

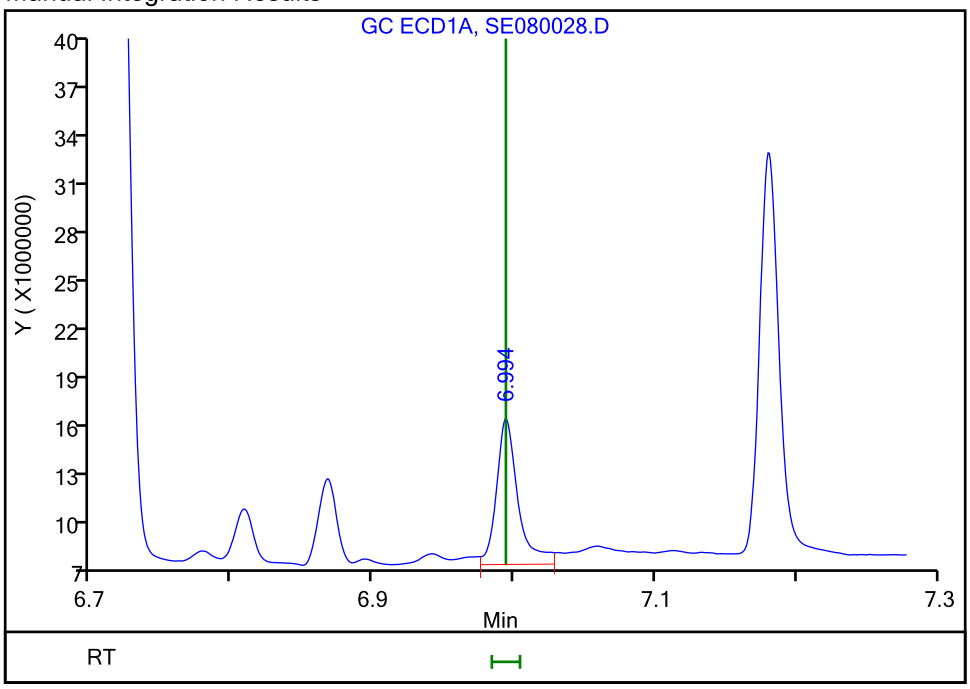
Processing Integration Results

RT: 6.99
Area: 8493762
Amount: 9.172845
Amount Units: ug/ml



Manual Integration Results

RT: 6.99
Area: 9354886
Amount: 10.102816
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

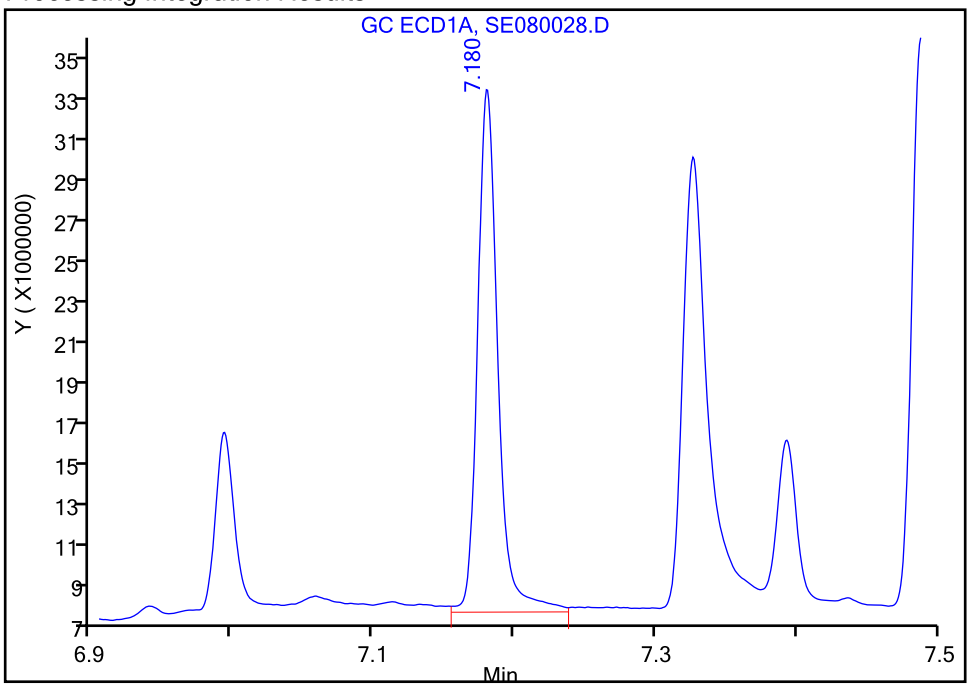
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Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

10 Dichlorprop, CAS: 120-36-5

Signal: 1

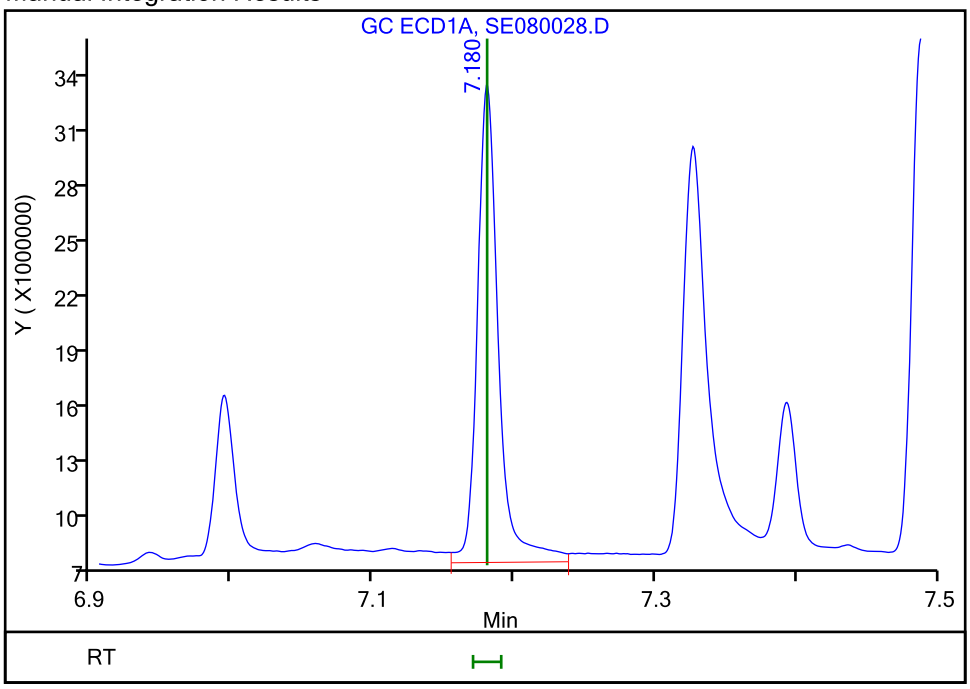
Processing Integration Results

RT: 7.18
Area: 24664605
Amount: 0.088882
Amount Units: ug/ml



Manual Integration Results

RT: 7.18
Area: 25840205
Amount: 0.093119
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

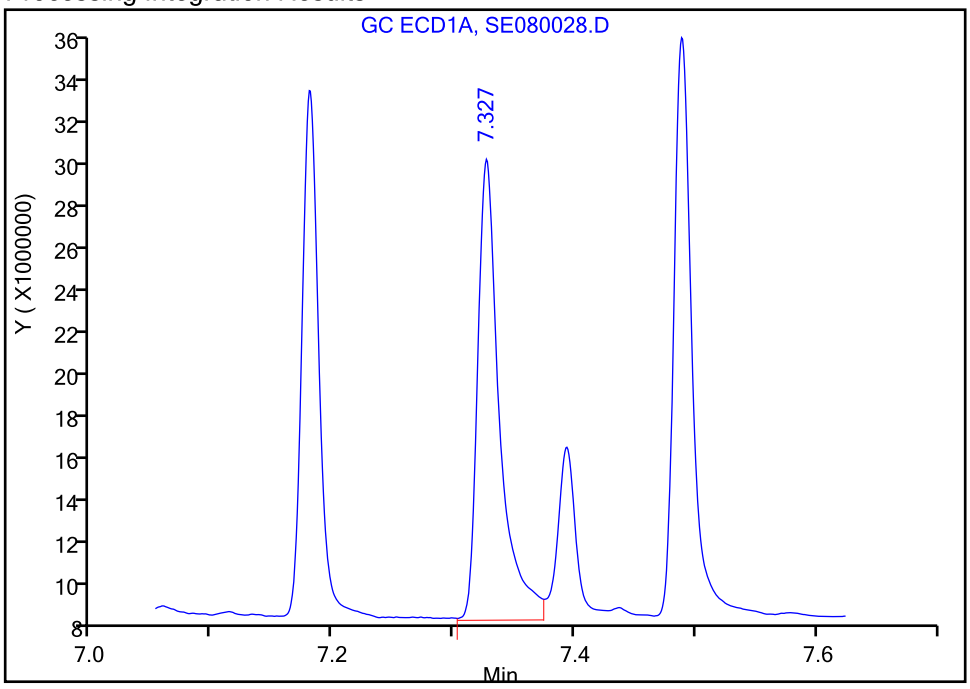
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Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

11 2,4-D, CAS: 94-75-7

Signal: 1

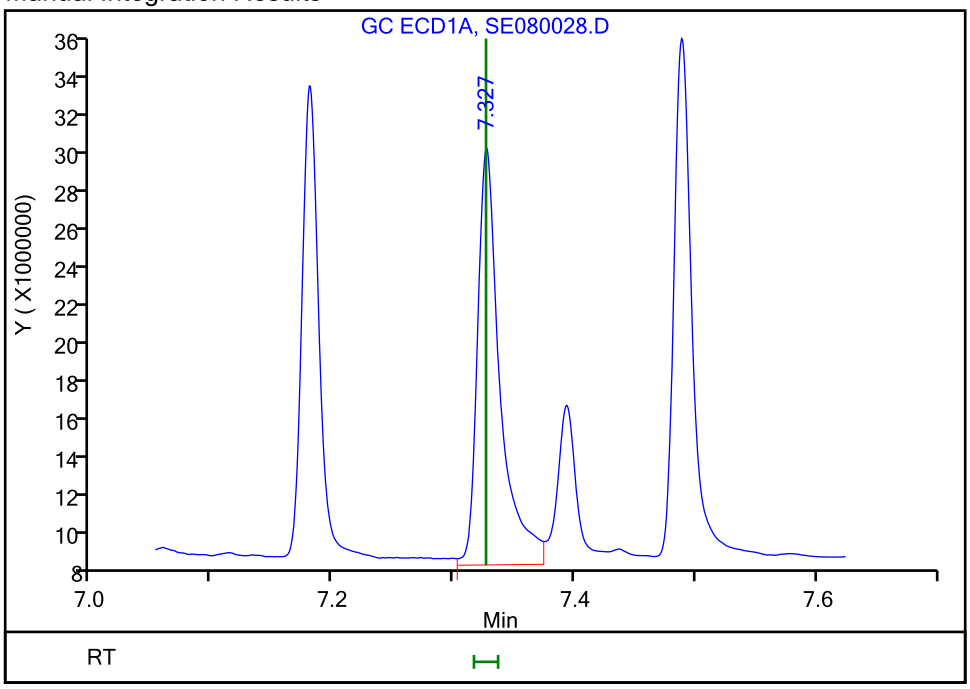
Processing Integration Results

RT: 7.33
Area: 26942730
Amount: 0.089096
Amount Units: ug/ml



Manual Integration Results

RT: 7.33
Area: 27939986
Amount: 0.092394
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

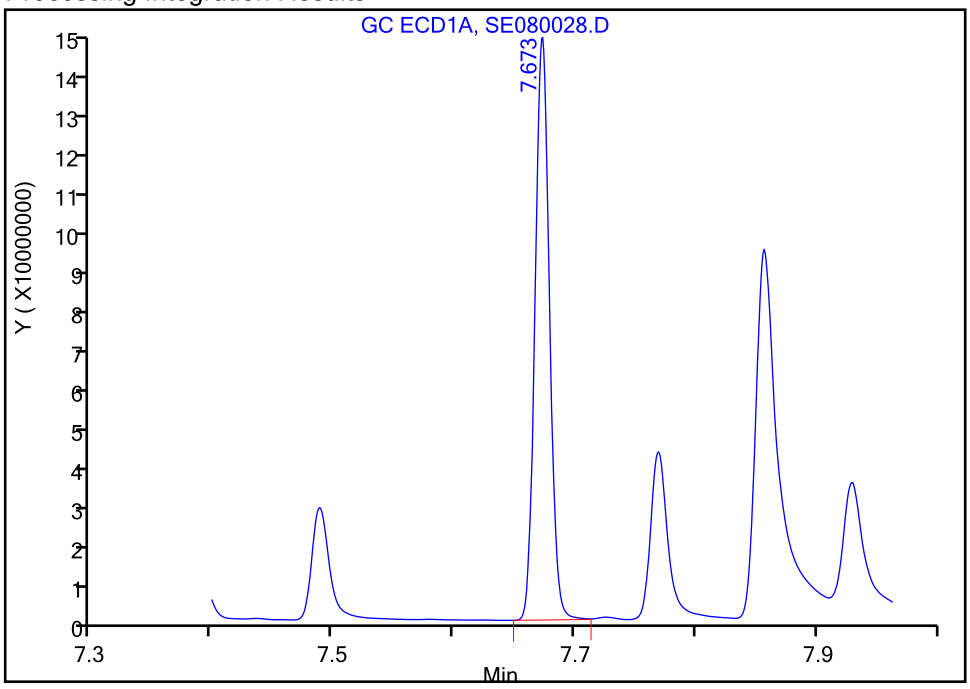
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

12 Pentachlorophenol, CAS: 87-86-5

Signal: 1

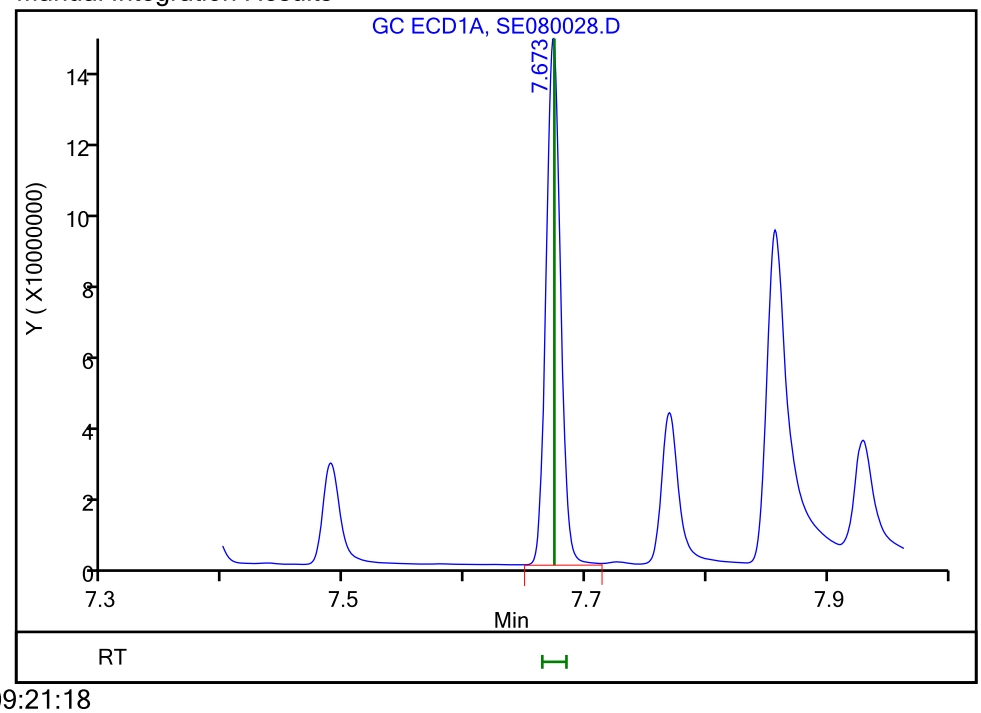
Processing Integration Results

RT: 7.67
Area: 115029769
Amount: 0.021366
Amount Units: ug/ml



Manual Integration Results

RT: 7.67
Area: 115836502
Amount: 0.021515
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

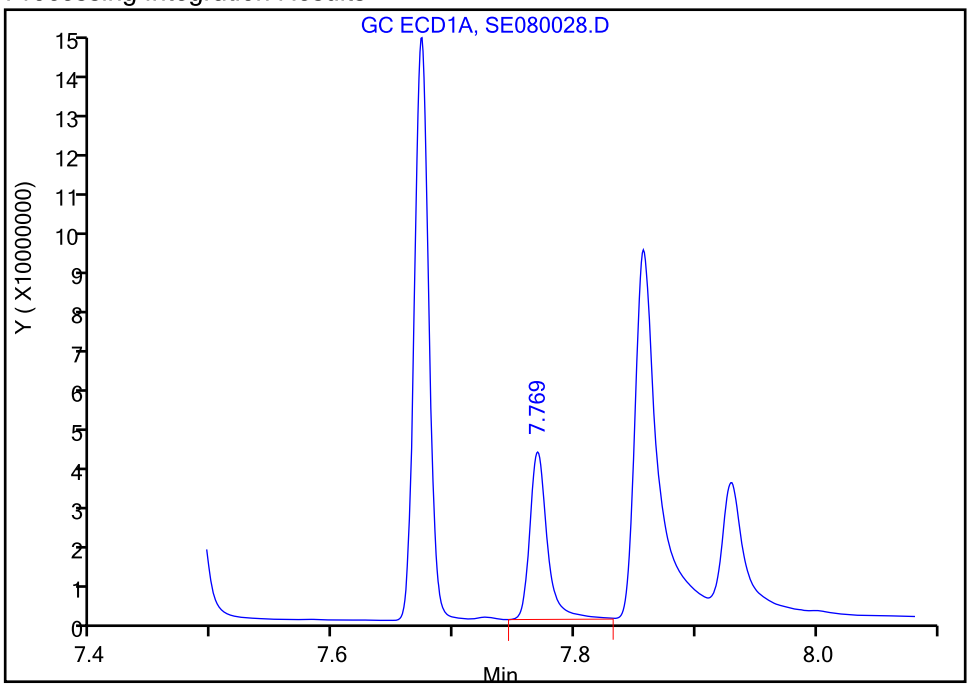
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 1

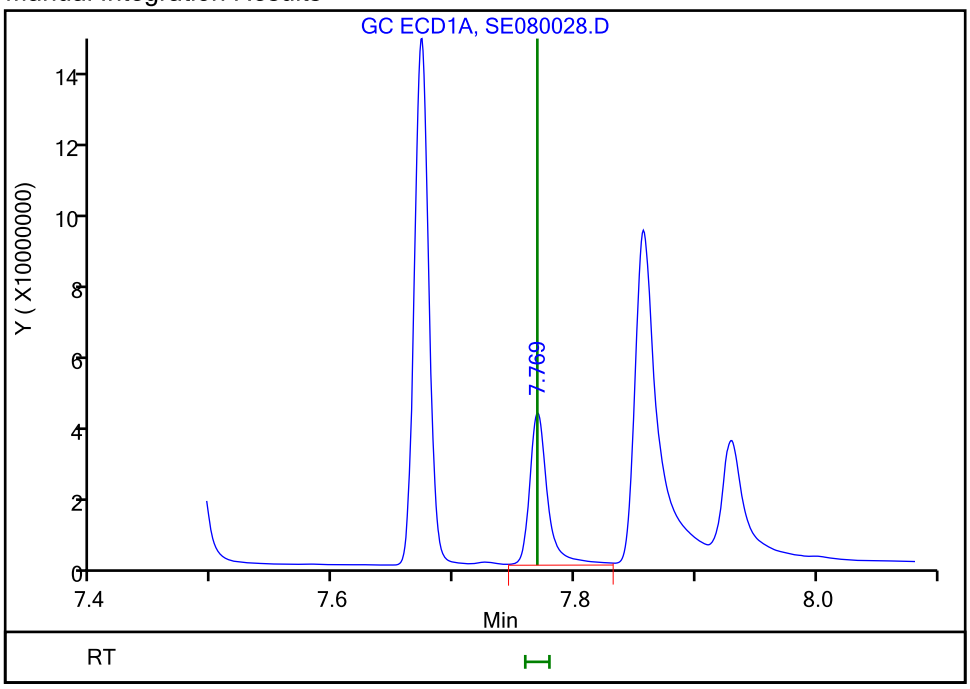
Processing Integration Results

RT: 7.77
Area: 40488427
Amount: 0.021551
Amount Units: ug/ml



Manual Integration Results

RT: 7.77
Area: 41916828
Amount: 0.022311
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

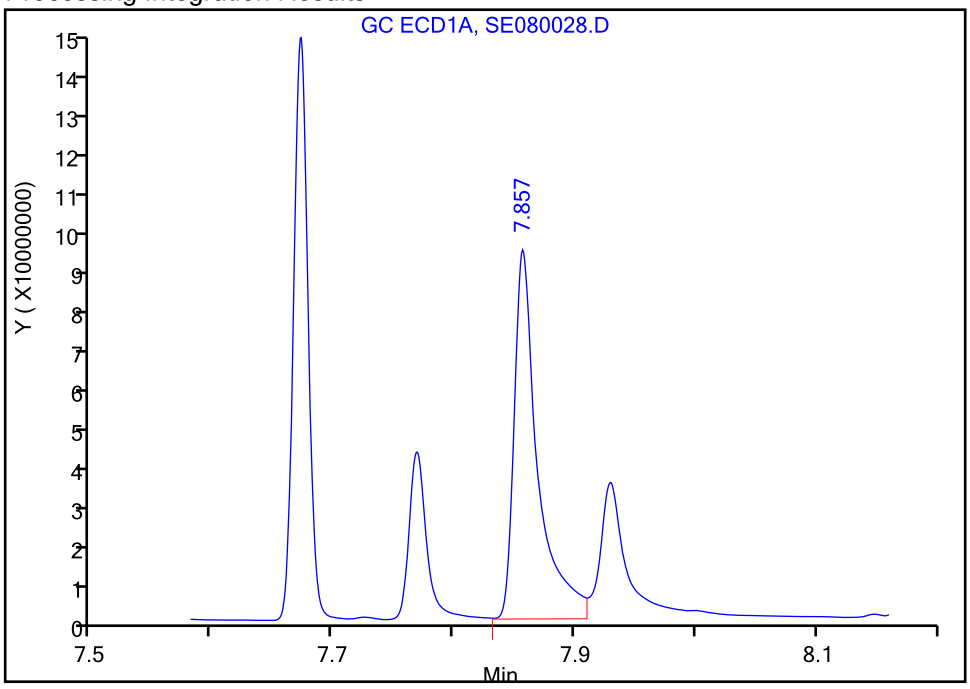
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

14 Chloramben, CAS: 133-90-4

Signal: 1

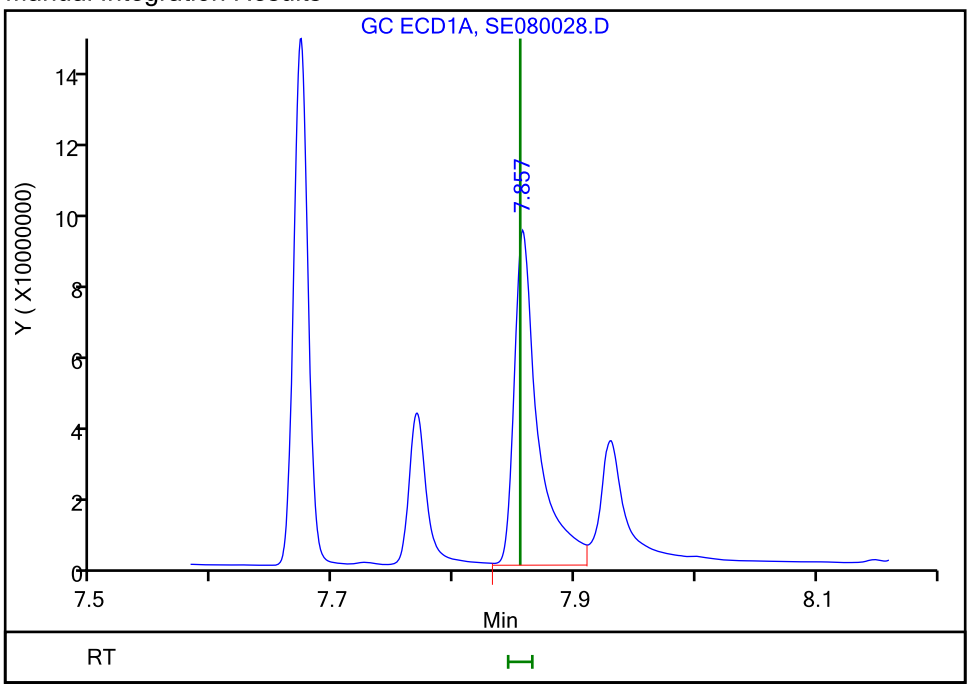
Processing Integration Results

RT: 7.86
Area: 119097819
Amount: 0.081002
Amount Units: ug/ml



Manual Integration Results

RT: 7.86
Area: 120589270
Amount: 0.081859
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

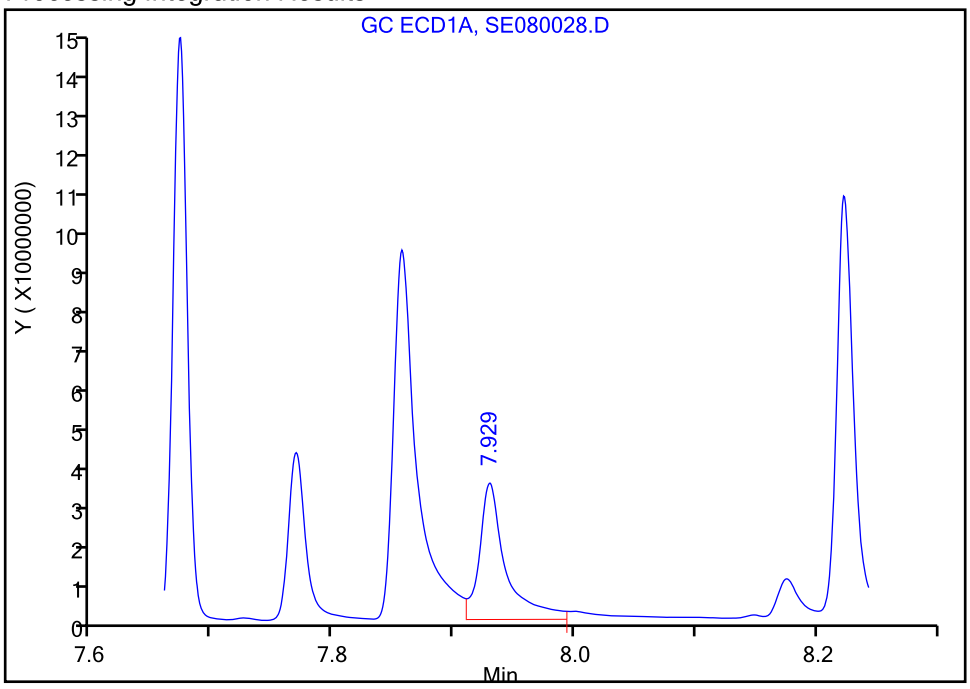
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

15 2,4,5-T, CAS: 93-76-5

Signal: 1

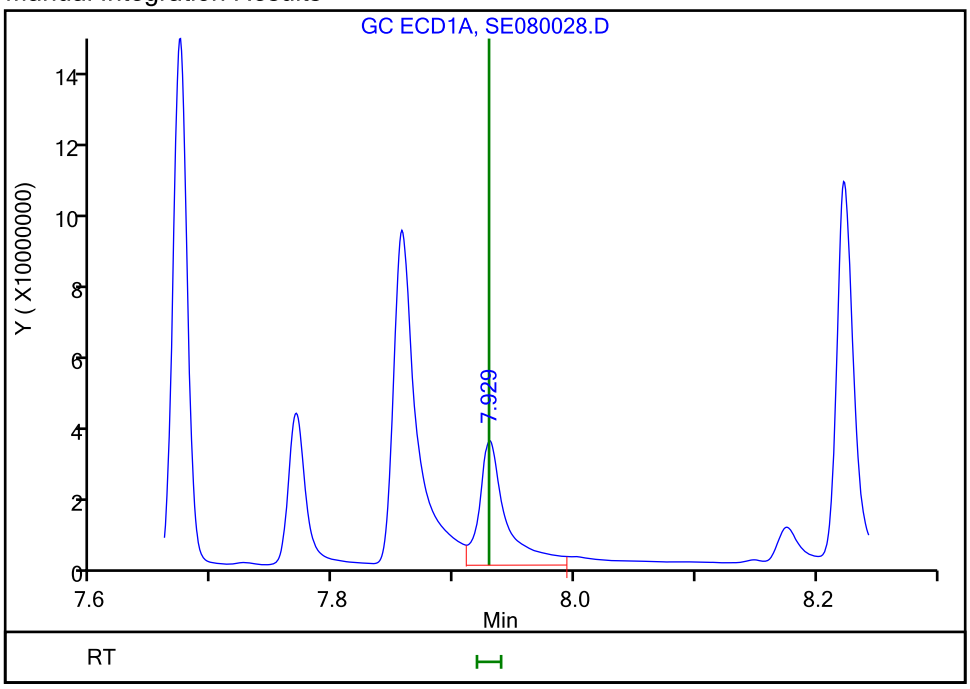
Processing Integration Results

RT: 7.93
Area: 48927313
Amount: 0.022302
Amount Units: ug/ml



Manual Integration Results

RT: 7.93
Area: 50606060
Amount: 0.023067
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

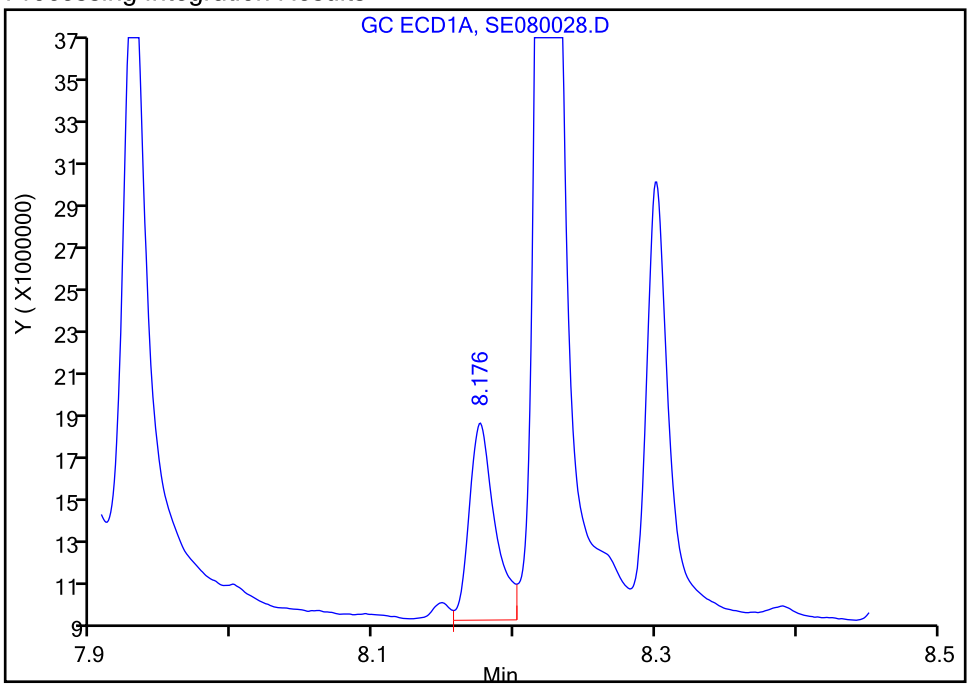
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

16 2,4-DB, CAS: 94-82-6

Signal: 1

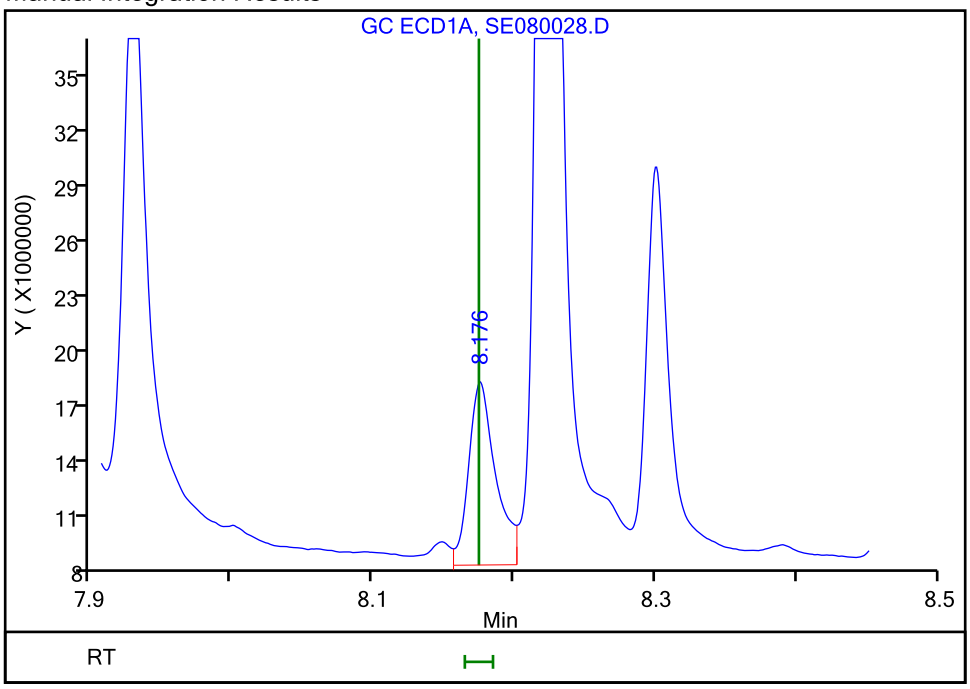
Processing Integration Results

RT: 8.18
Area: 12042105
Amount: 0.082623
Amount Units: ug/ml



Manual Integration Results

RT: 8.18
Area: 13148444
Amount: 0.088814
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

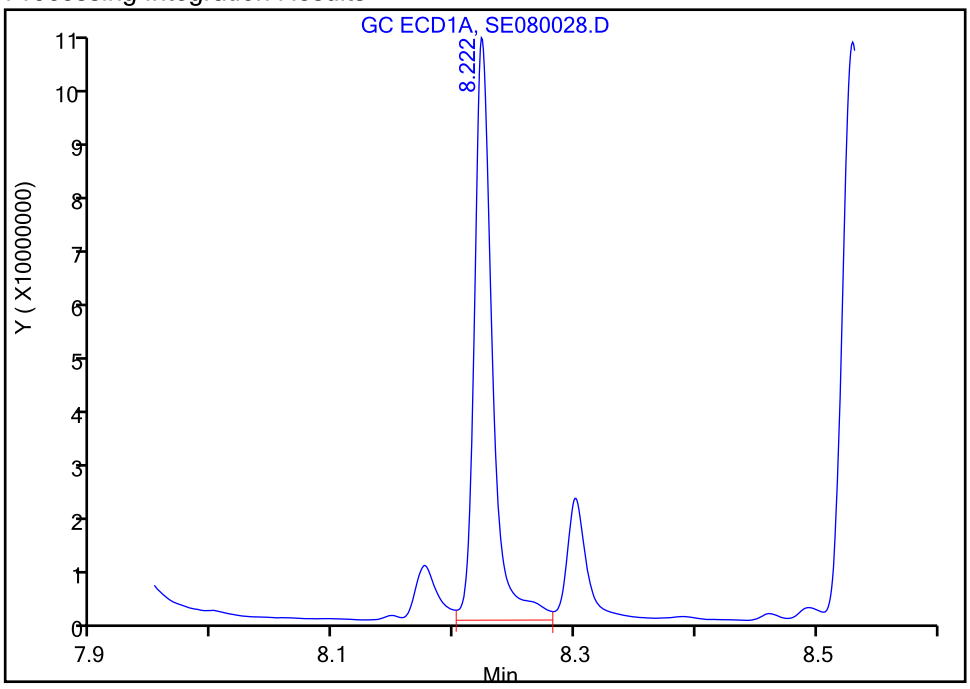
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-XLB (0.32 mm) Detector GC ECD1A

17 Dinoseb, CAS: 88-85-7

Signal: 1

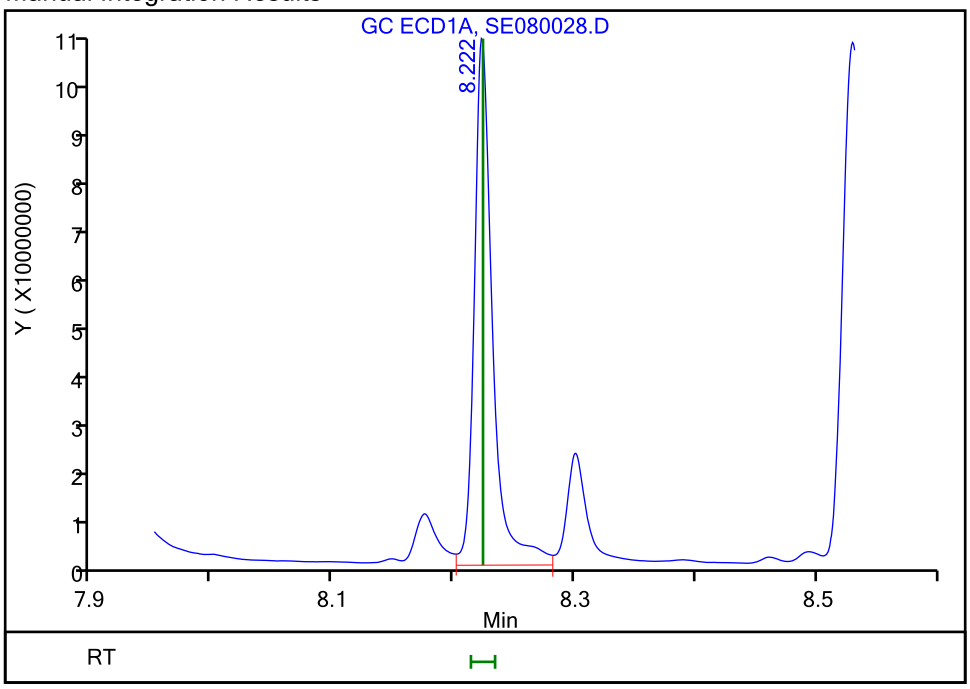
Processing Integration Results

RT: 8.22
Area: 104391134
Amount: 0.085294
Amount Units: ug/ml



Manual Integration Results

RT: 8.22
Area: 106303543
Amount: 0.086857
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

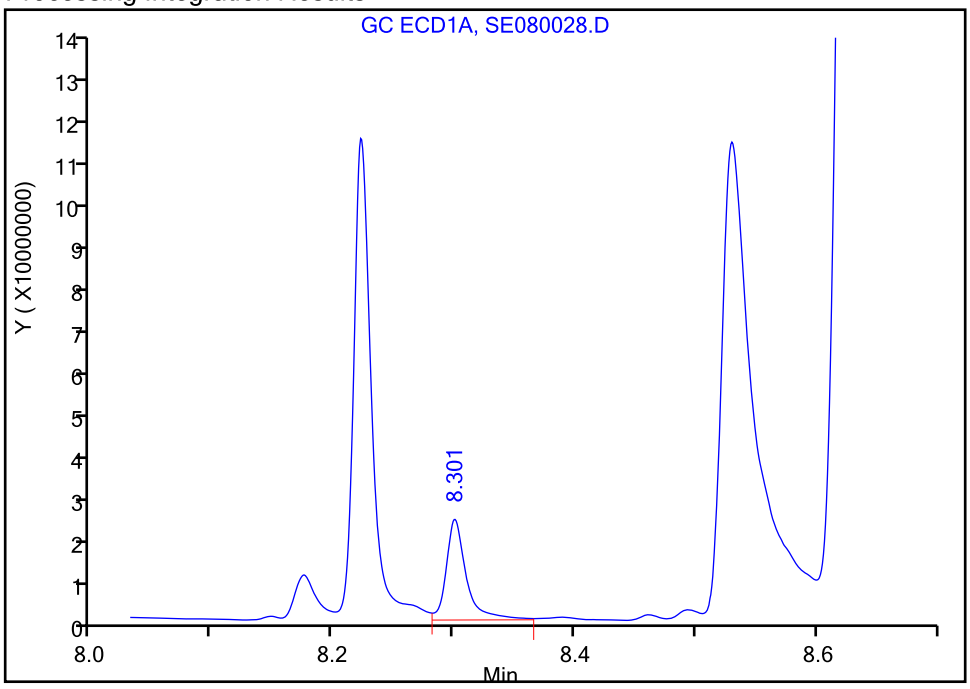
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

18 Bentazon, CAS: 25057-89-0

Signal: 1

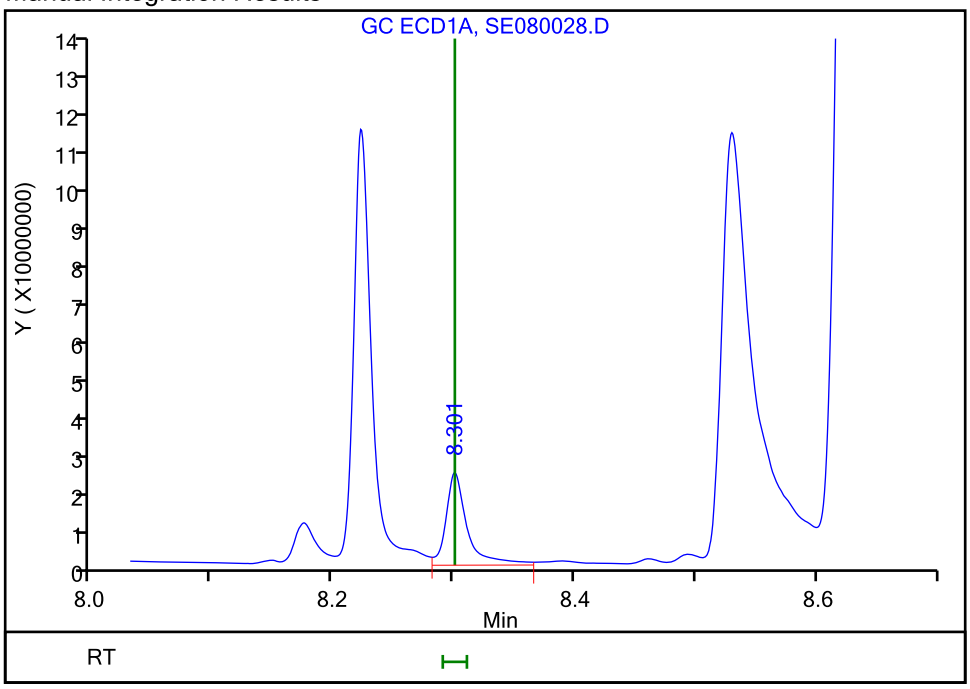
Processing Integration Results

RT: 8.30
Area: 24343283
Amount: 0.084657
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 26331660
Amount: 0.091572
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

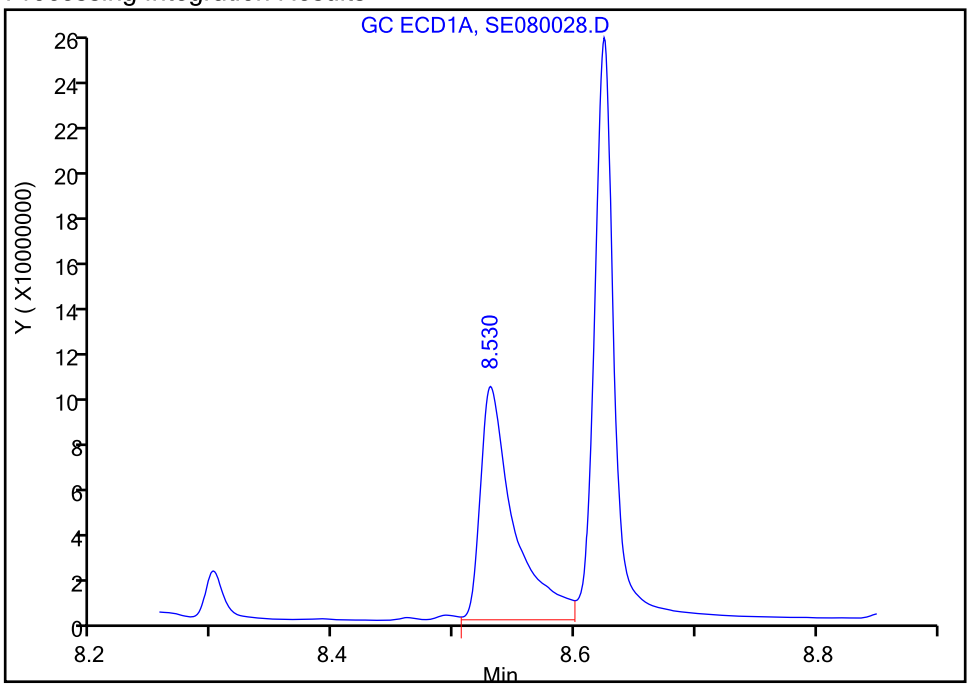
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

19 Picloram, CAS: 1918-02-1

Signal: 1

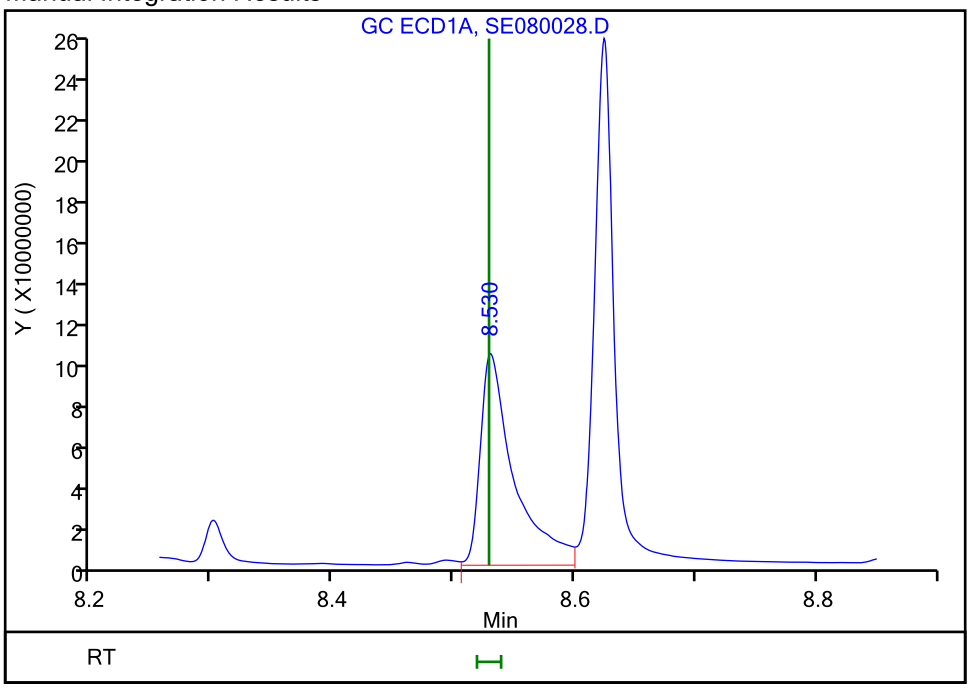
Processing Integration Results

RT: 8.53
Area: 191152812
Amount: 0.082598
Amount Units: ug/ml



Manual Integration Results

RT: 8.53
Area: 193401540
Amount: 0.083421
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

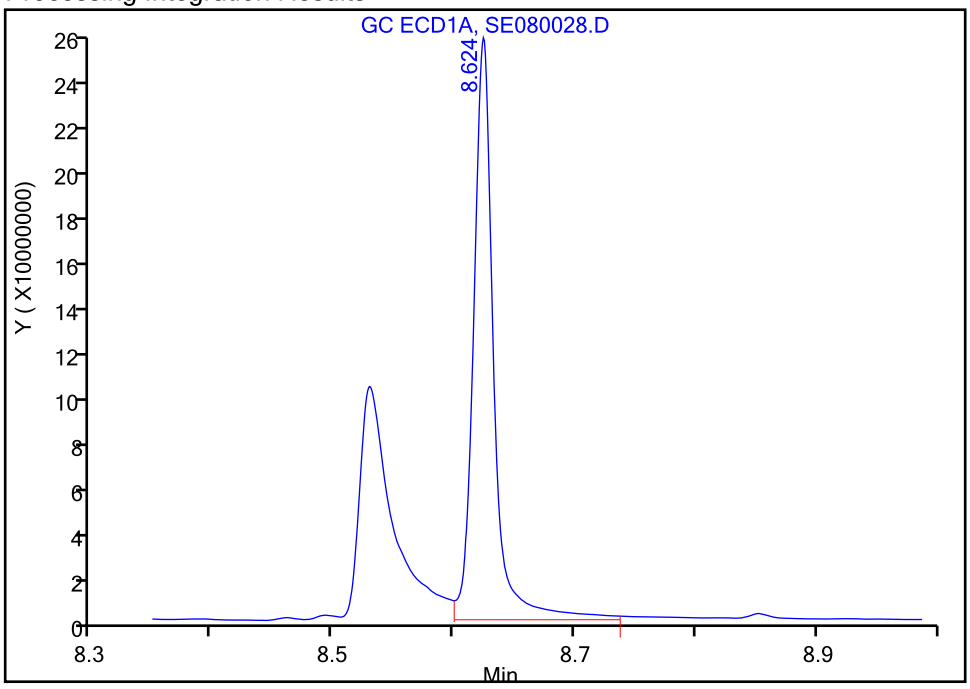
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

20 DCPA, CAS: 1861-32-1

Signal: 1

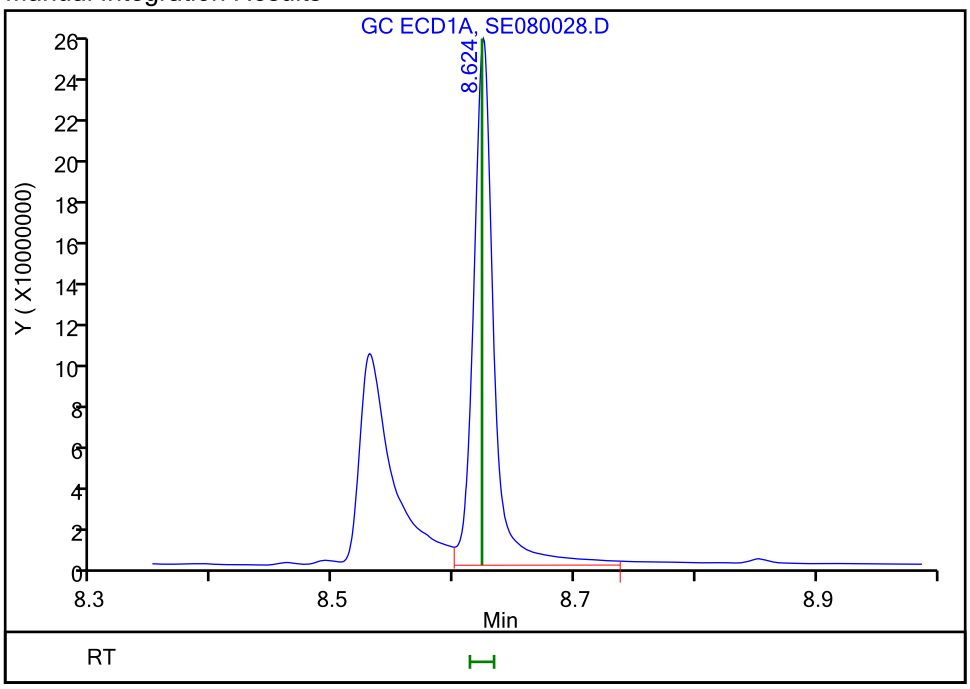
Processing Integration Results

RT: 8.62
Area: 288144985
Amount: 0.087498
Amount Units: ug/ml



Manual Integration Results

RT: 8.62
Area: 290942878
Amount: 0.088348
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

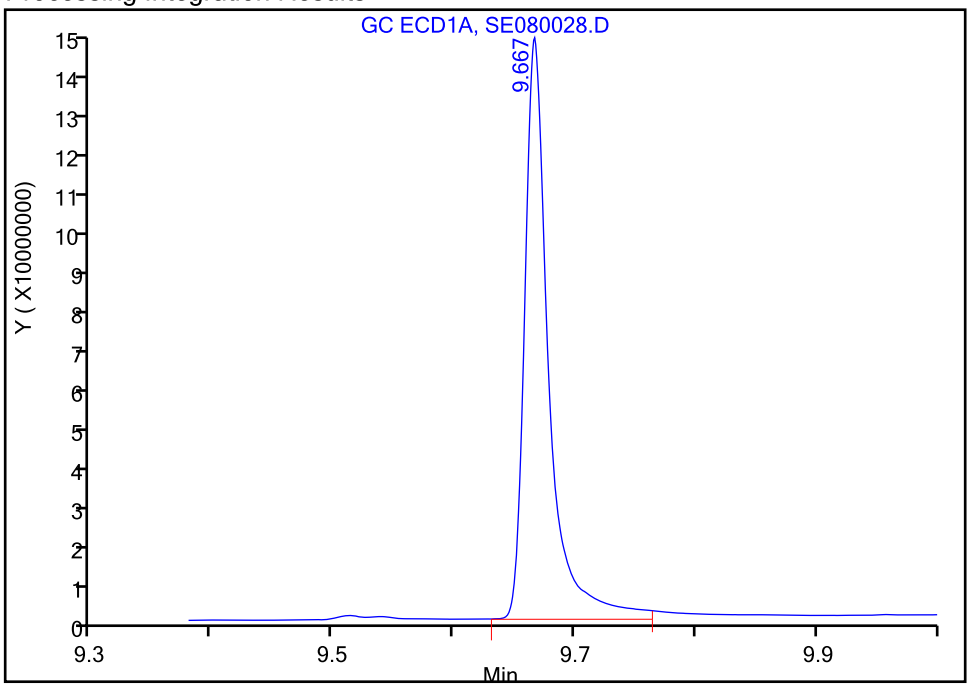
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-XLB (0.32 mm)	Detector	GC ECD1A		

21 Acifluorfen, CAS: 50594-66-6

Signal: 1

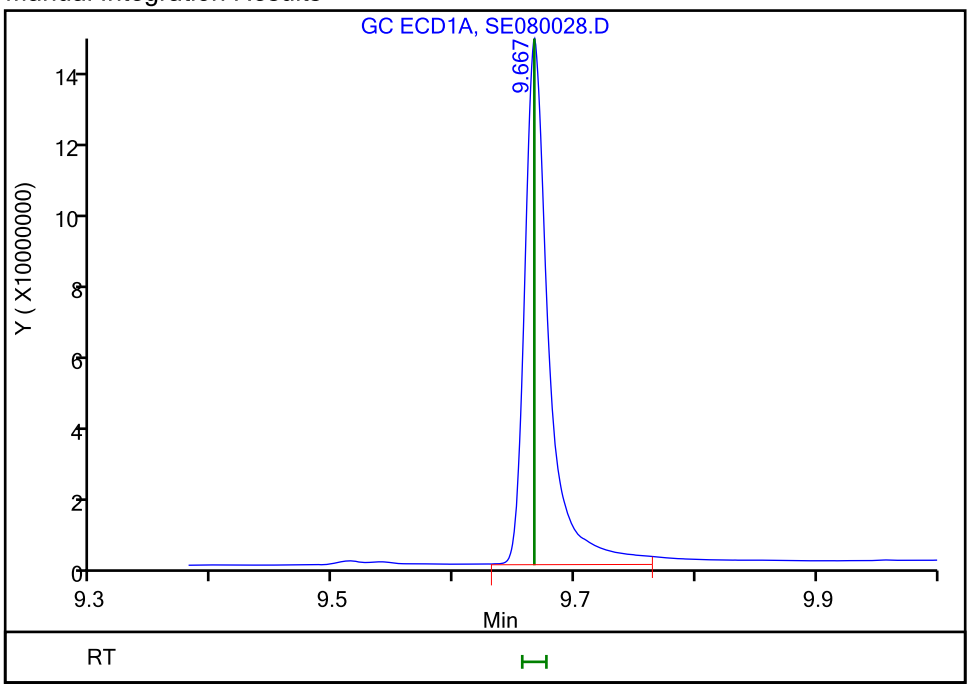
Processing Integration Results

RT: 9.67
Area: 195467381
Amount: 0.086624
Amount Units: ug/ml



Manual Integration Results

RT: 9.67
Area: 196204957
Amount: 0.086919
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:18
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1611774466	1246830710		0.0774	0.100	-22.6*	20.0
3,5-Dichlorobenzoic acid	Ave	1796964783	1468472240		0.0817	0.100	-18.3	20.0
4-Nitrophenol	Ave	299039718	261483920		0.0874	0.100	-12.6	20.0
Dicamba	Ave	5009061262	4102166040		0.0409	0.0500	-18.1	20.0
MCPP	Lin2		4258166		8.89	10.0	-11.1	20.0
MCPA	QuaF		6563030		11.6	10.0	15.7	20.0
Dichlorprop	Ave	1409813393	1172228420		0.0831	0.100	-16.9	20.0
2,4-D	Ave	1593535987	1336273560		0.0839	0.100	-16.1	20.0
Pentachlorophenol	Ave	18808678996	15992619040		0.0213	0.0250	-15.0	20.0
Silvex (2,4,5-TP)	Ave	7391322149	6239752040		0.0211	0.0250	-15.6	20.0
2,4,5-T	Ave	6646535168	5405095440		0.0203	0.0250	-18.7	20.0
Chloramben	Ave	5625509945	4579695330		0.0814	0.100	-18.6	20.0
Dinoseb	Lin1		3102768450		0.0737	0.100	-26.3*	20.0
2,4-DB	Ave	986290097	916372090		0.0929	0.100	-7.1	20.0
Bentazon	Ave	803969083	674921560		0.0839	0.100	-16.1	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	9821124803	8428414340		0.0858	0.100	-14.2	20.0
Picloram	Lin1		6868819520		0.0704	0.100	-29.6*	20.0
Acifluorfen	Qua		5380410960		0.0817	0.100	-18.3	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1407755771	1161179490		0.0825	0.100	-17.5	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/28 Calibration Date: 05/08/2018 21:40

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080028.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.63	2.61	2.65
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.51	6.50	6.52
Dicamba	6.91	6.90	6.92
MCPP	6.96	6.95	6.97
MCPA	7.15	7.15	7.17
Dichlorprop	7.30	7.29	7.31
2,4-D	7.52	7.51	7.53
Pentachlorophenol	7.71	7.70	7.72
Silvex (2,4,5-TP)	7.85	7.84	7.86
2,4,5-T	8.08	8.07	8.09
Chloramben	8.16	8.15	8.17
Dinoseb	8.25	8.24	8.26
2,4-DB	8.30	8.29	8.31
Bentazon	8.66	8.65	8.67
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	8.77	8.79
Picloram	9.01	9.00	9.02
Acifluorfen	9.79	9.78	9.80
2,4-Dichlorophenylacetic acid (Surr)	6.83	6.82	6.84

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Lims ID: ccv h4
Client ID:
Sample Type: CCV
Inject. Date: 08-May-2018 21:40:11 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-028
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:37:48 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:21:29

	Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 Dalapon							
	1	2.578	2.579	-0.001	40734619	0.1000	0.0777	
	2	2.632	2.632	0.000	124683071	0.1000	0.0774	
							RPD = 0.48	
	2 2,6-Dichlorophenol							
	1	5.016	5.015	0.001	8885882	NC	NC	
	2	5.102	5.102	0.000	45742372	NC	NC	
							RPD = 7.11	
	3 2,4,6-Trichlorophenol							
	1	5.787	5.786	0.001	104333704	NC	NC	
	2	5.776	5.776	0.000	435611631	NC	NC	
							RPD = 2.76	
	4 3,5-Dichlorobenzoic acid							
	1	6.123	6.124	-0.001	28317334	0.1000	0.0881	
	2	6.116	6.116	0.000	146847224	0.1000	0.0817	
							RPD = 7.52	
	5 4-Nitrophenol							
	1	6.252	6.253	-0.001	9190153	0.1000	0.0994	
	2	6.505	6.505	0.000	26148392	0.1000	0.0874	
							RPD = 12.80	
$	6 2,4-Dichlorophenylacetic acid							M
	1	6.683	6.683	0.000	18377296	0.1000	0.0869	M
	2	6.828	6.829	-0.001	116117949	0.1000	0.0825	M
							RPD = 5.21	
	7 Dicamba							M
	1	6.720	6.720	0.000	46122338	0.0500	0.0428	M
	2	6.911	6.910	0.001	205108302	0.0500	0.0409	M
							RPD = 4.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	4690034	10.0	9.85	M
2	6.956	6.955	0.001	42581663	10.0	8.89	M
						RPD = 10.31	
9 MCPA							M
1	6.994	6.994	0.000	9354886	10.0	10.1	M
2	7.153	7.155	-0.002	65630302	10.0	11.6	M
						RPD = 13.55	
10 Dichlorprop							M
1	7.180	7.180	0.000	25840205	0.1000	0.0931	M
2	7.297	7.297	0.000	117222842	0.1000	0.0831	M
						RPD = 11.31	
11 2,4-D							M
1	7.327	7.326	0.001	27939986	0.1000	0.0924	M
2	7.517	7.517	0.000	133627356	0.1000	0.0839	M
						RPD = 9.69	
12 Pentachlorophenol							M
1	7.673	7.674	-0.001	115836502	0.0250	0.0215	M
2	7.713	7.714	-0.001	399815476	0.0250	0.0213	M
						RPD = 1.21	
13 Silvex (2,4,5-TP)							M
1	7.769	7.769	0.000	41916828	0.0250	0.0223	M
2	7.847	7.846	0.001	155993801	0.0250	0.0211	M
						RPD = 5.56	
14 Chloramben							M
1	7.857	7.855	0.002	120589270	0.1000	0.0819	M
2	8.162	8.162	0.000	457969533	0.1000	0.0814	M
						RPD = 0.55	
15 2,4,5-T							M
1	7.929	7.929	0.000	50606060	0.0250	0.0231	M
2	8.083	8.083	0.000	135127386	0.0250	0.0203	M
						RPD = 12.61	
16 2,4-DB							M
1	8.176	8.175	0.001	13148444	0.1000	0.0888	M
2	8.302	8.302	0.000	91637209	0.1000	0.0929	M
						RPD = 4.51	
17 Dinoseb							M
1	8.222	8.224	-0.002	106303543	0.1000	0.0869	M
2	8.248	8.248	0.000	310276845	0.1000	0.0737	M
						RPD = 16.39	
18 Bentazon							M
1	8.301	8.300	0.001	26331660	0.1000	0.0916	M
2	8.663	8.662	0.001	67492156	0.1000	0.0839	M
						RPD = 8.69	
19 Picloram							M
1	8.530	8.529	0.001	193401540	0.1000	0.0834	M
2	9.007	9.005	0.002	686881952	0.1000	0.0704	M
						RPD = 16.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.624	8.623	0.001	290942878	0.1000	0.0883	M
2	8.777	8.775	0.002	842841434	0.1000	0.0858	M
						RPD = 2.90	
21 Acifluorfen							M
1	9.667	9.666	0.001	196204957	0.1000	0.0869	M
2	9.793	9.792	0.001	538041096	0.1000	0.0817	
						RPD = 6.20	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

SGHERB-4_00016 Amount Added: 1.00 Units: mL

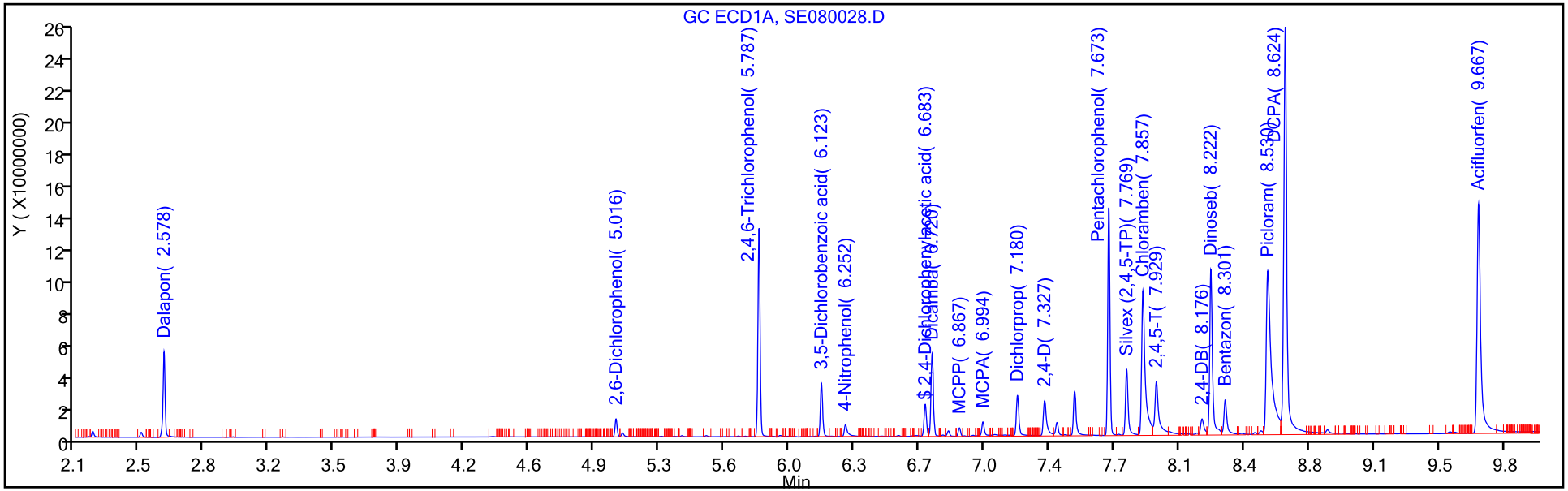
Report Date: 09-May-2018 09:37:56 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

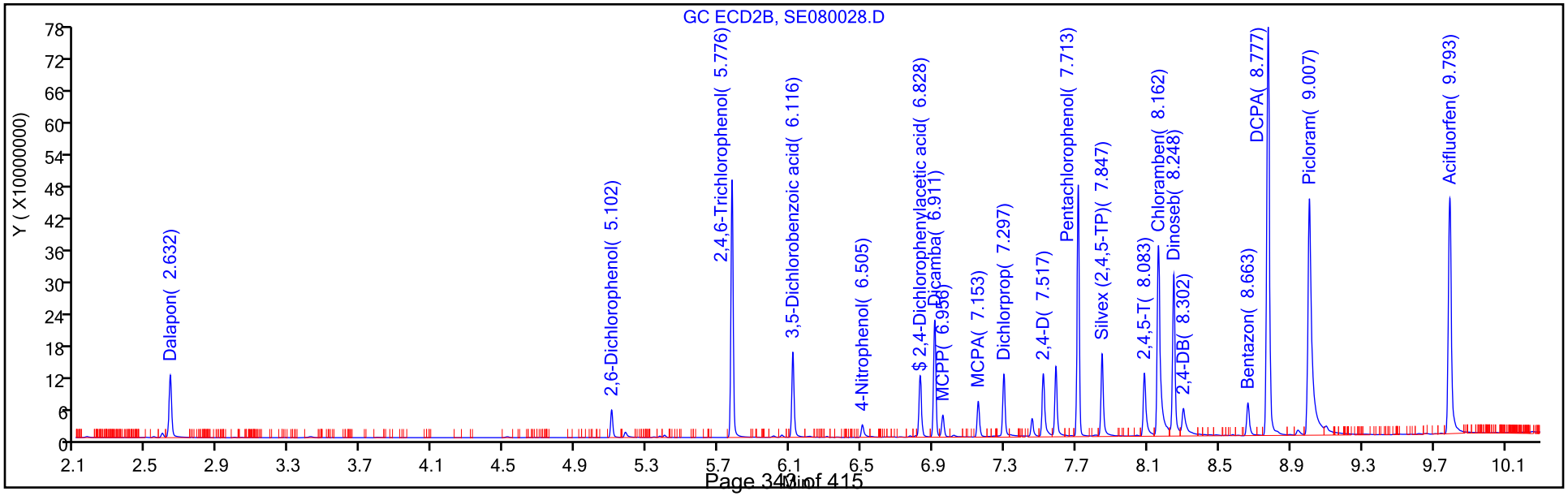
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D

Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h4			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah

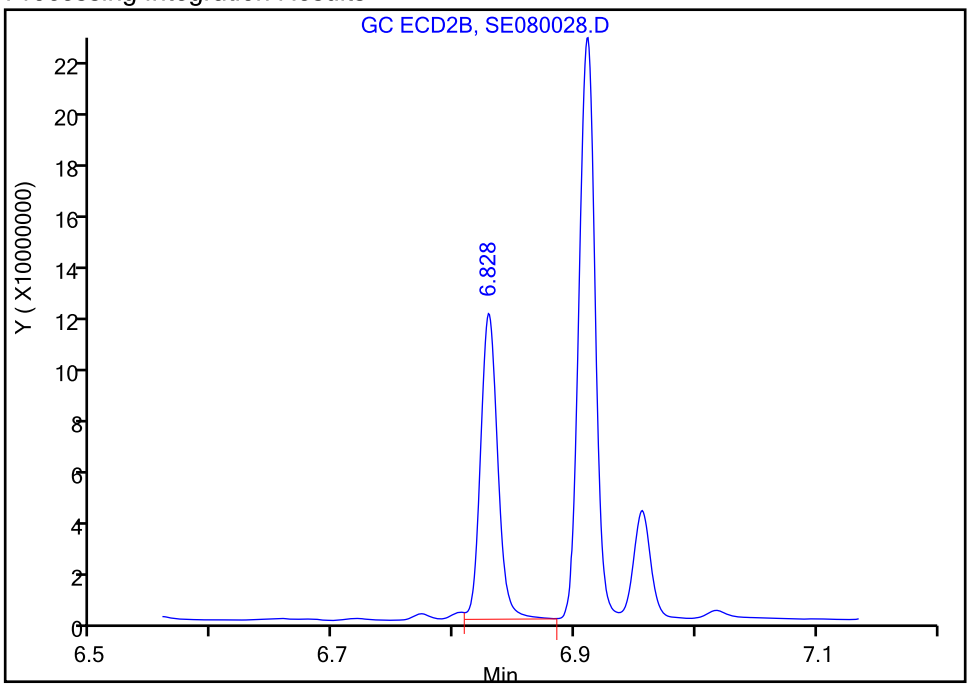
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

$ 6 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

Signal: 2

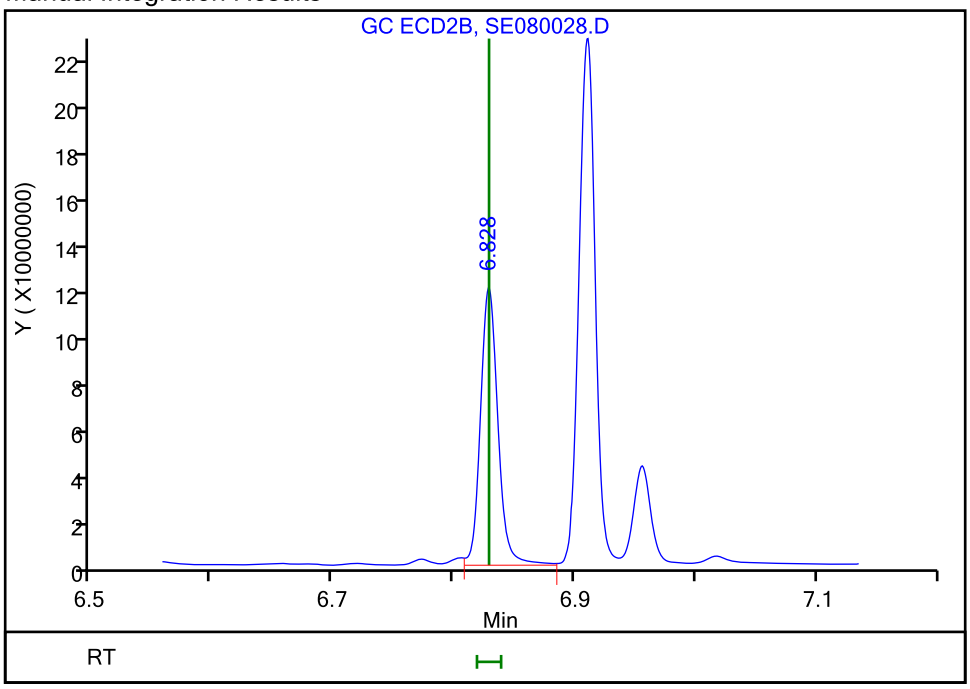
Processing Integration Results

RT: 6.83
Area: 113880445
Amount: 0.080895
Amount Units: ug/ml



Manual Integration Results

RT: 6.83
Area: 116117949
Amount: 0.082484
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

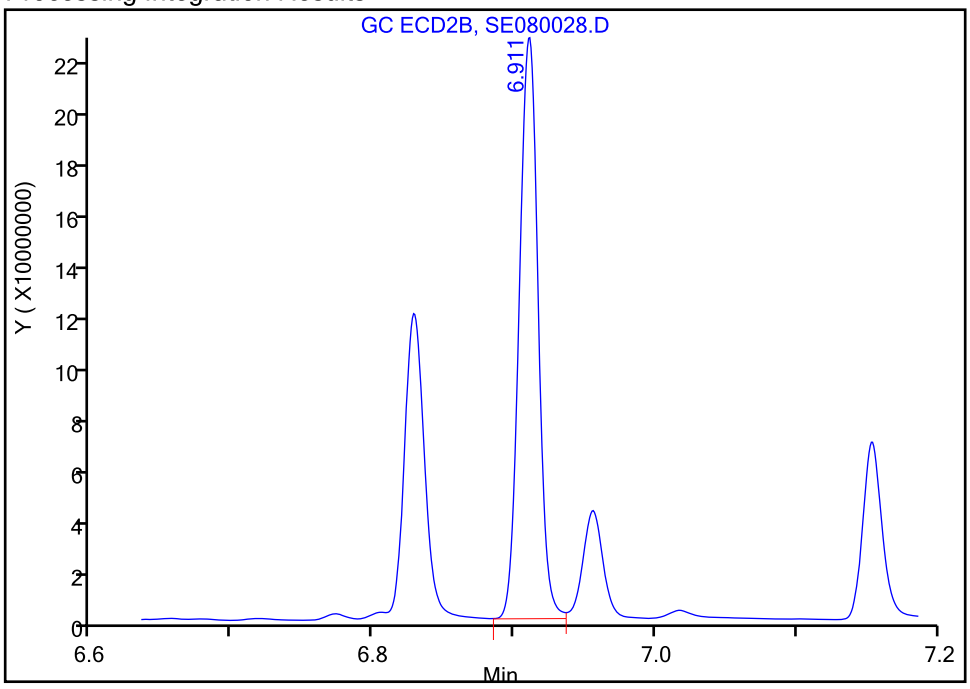
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

7 Dicamba, CAS: 1918-00-9

Signal: 2

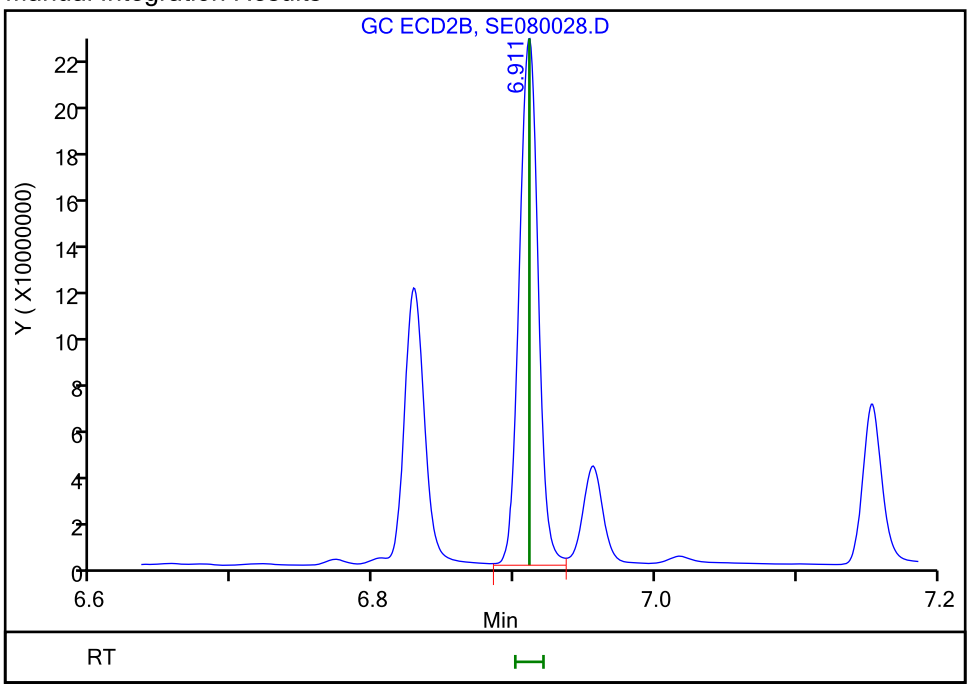
Processing Integration Results

RT: 6.91
Area: 203232530
Amount: 0.040573
Amount Units: ug/ml



Manual Integration Results

RT: 6.91
Area: 205108302
Amount: 0.040947
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

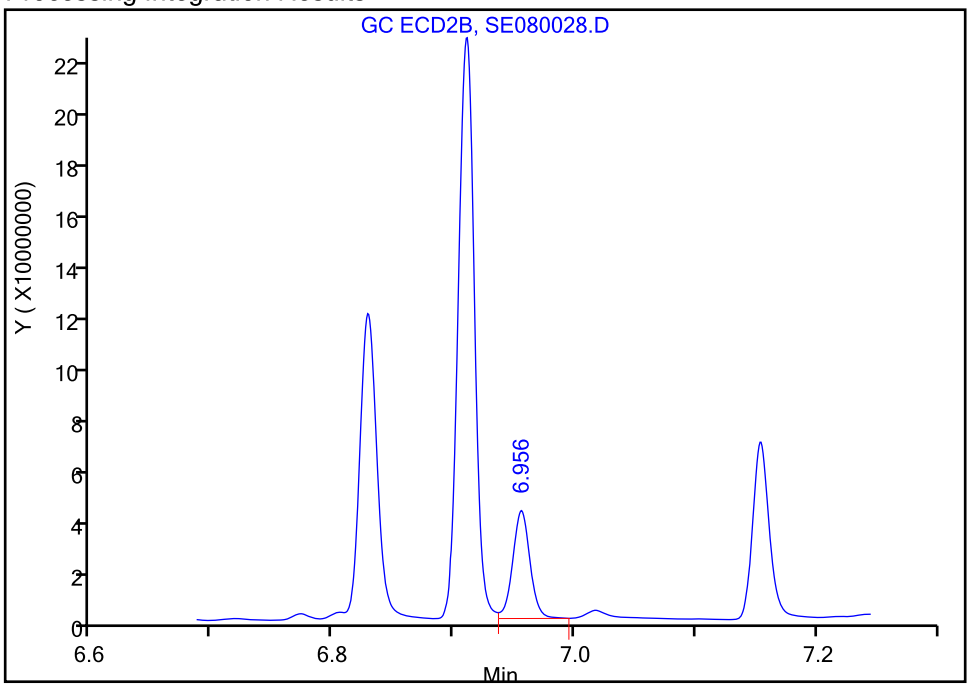
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

8 MCPP, CAS: 93-65-2

Signal: 2

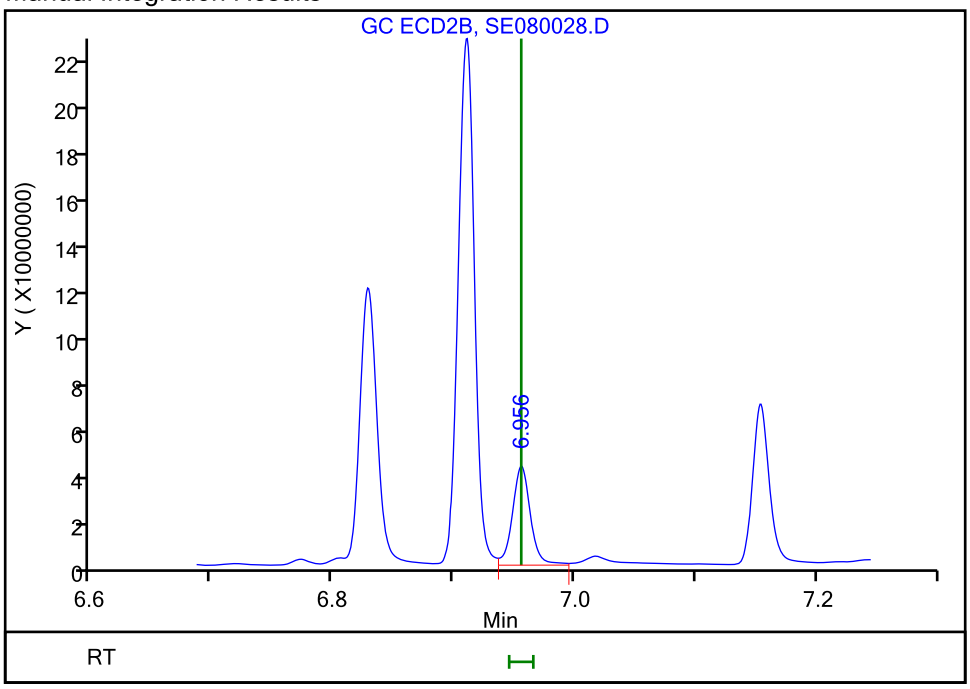
Processing Integration Results

RT: 6.96
Area: 40241793
Amount: 8.351331
Amount Units: ug/ml



Manual Integration Results

RT: 6.96
Area: 42581663
Amount: 8.887386
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

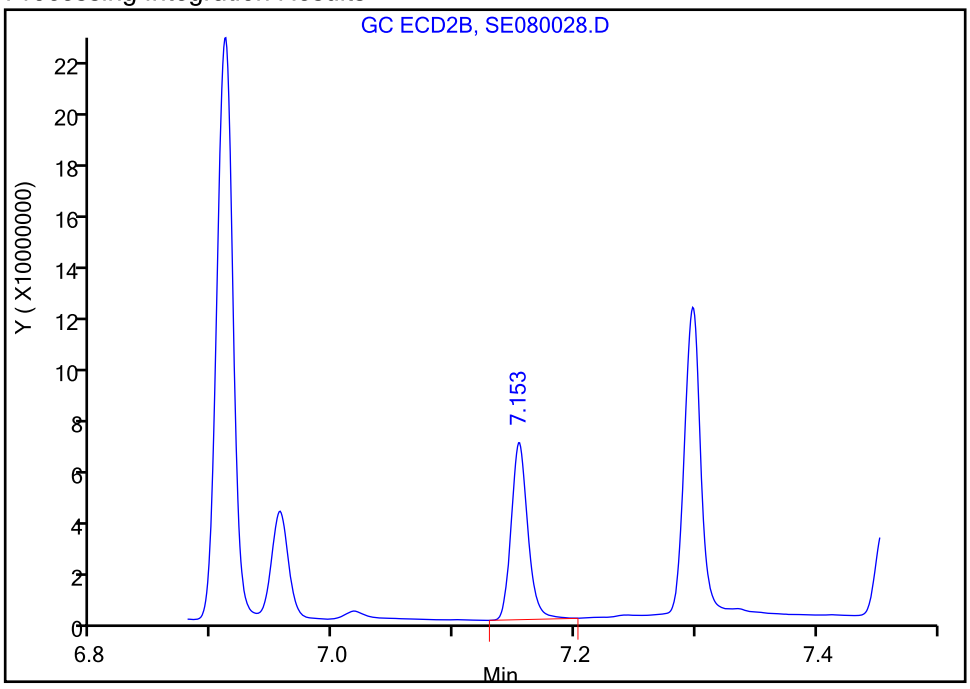
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

9 MCPA, CAS: 94-74-6

Signal: 2

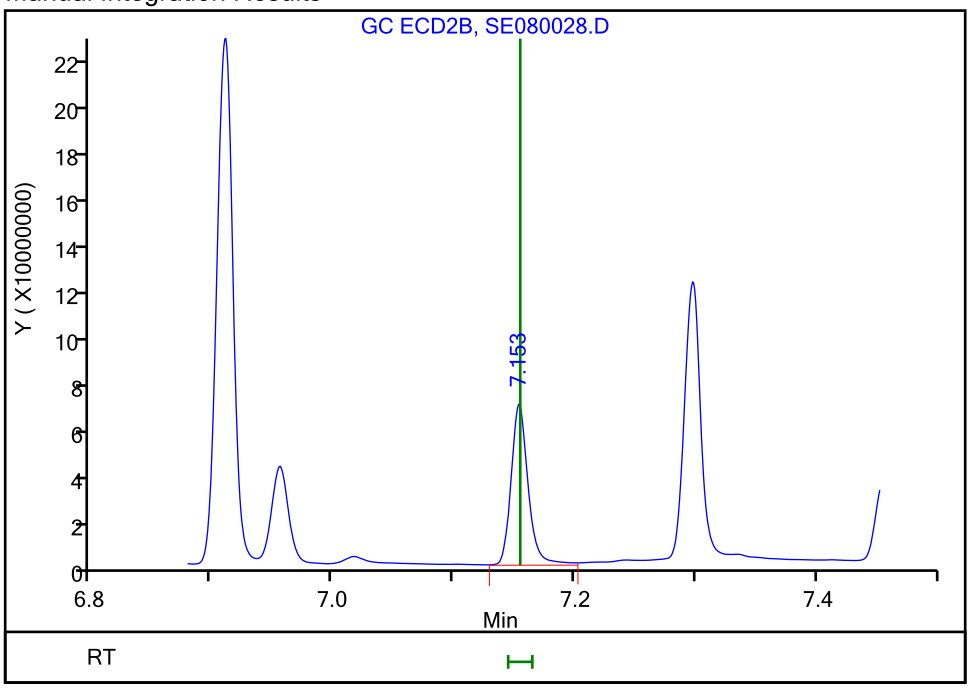
Processing Integration Results

RT: 7.15
Area: 63346761
Amount: 11.214387
Amount Units: ug/ml



Manual Integration Results

RT: 7.15
Area: 65630302
Amount: 11.570777
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

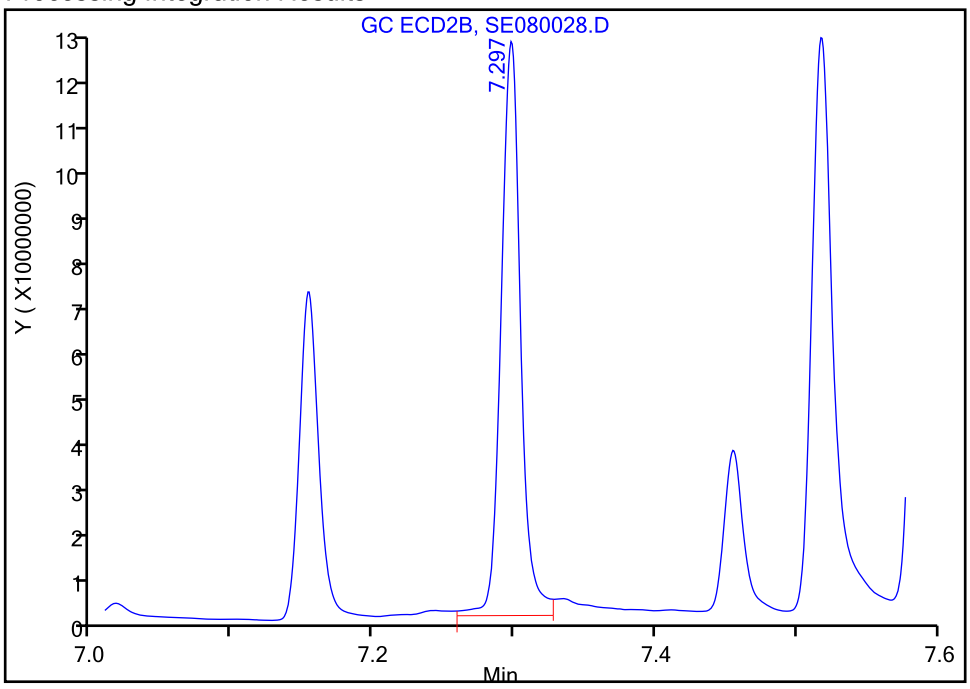
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Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

10 Dichlorprop, CAS: 120-36-5

Signal: 2

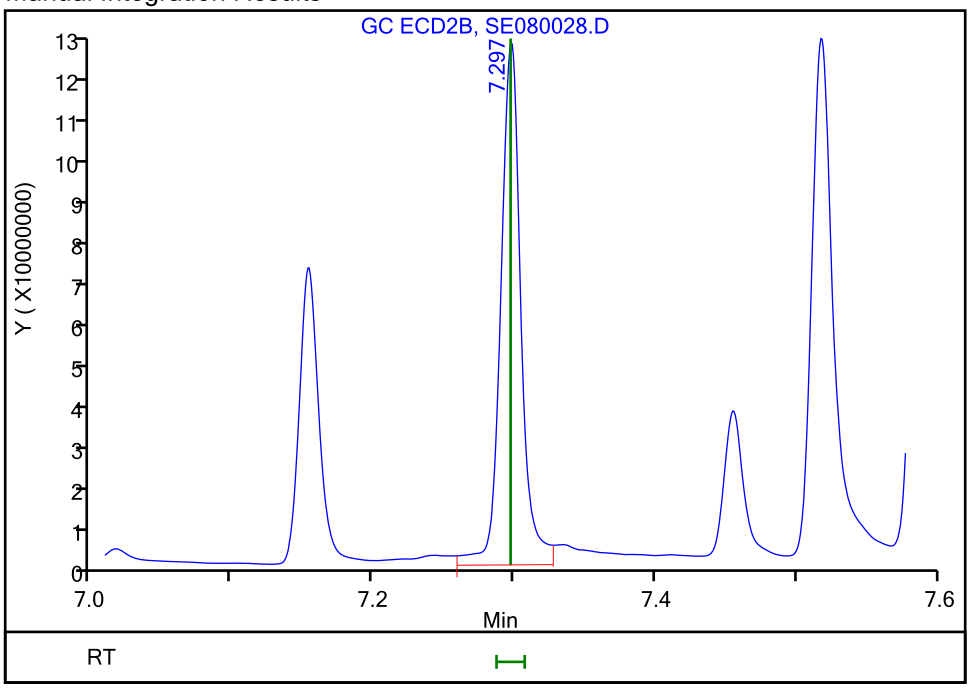
Processing Integration Results

RT: 7.30
Area: 112626711
Amount: 0.079888
Amount Units: ug/ml



Manual Integration Results

RT: 7.30
Area: 117222842
Amount: 0.083148
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

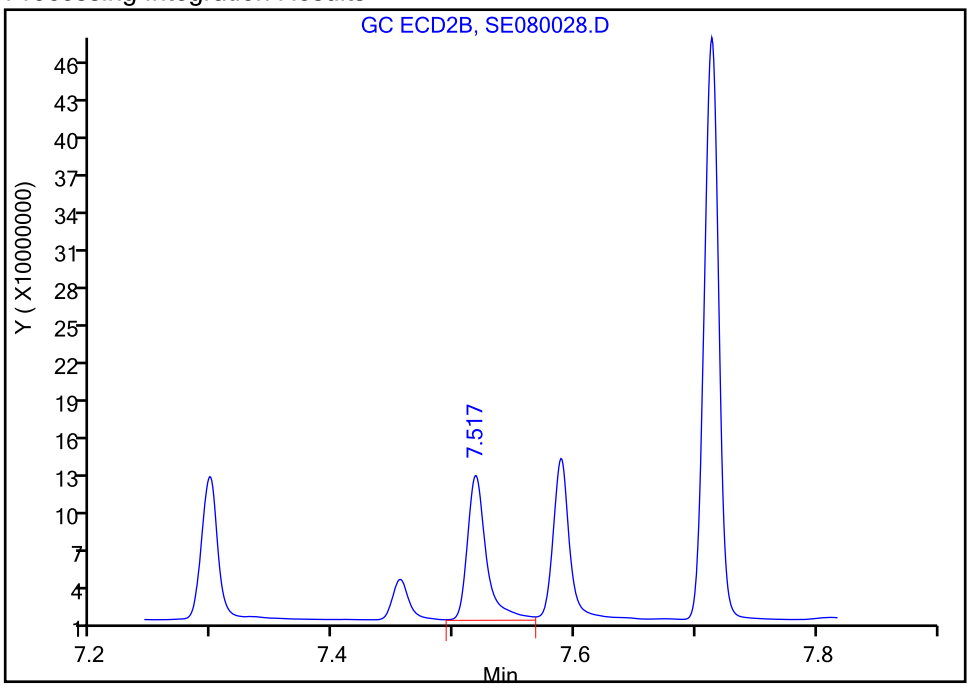
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Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7

Signal: 2

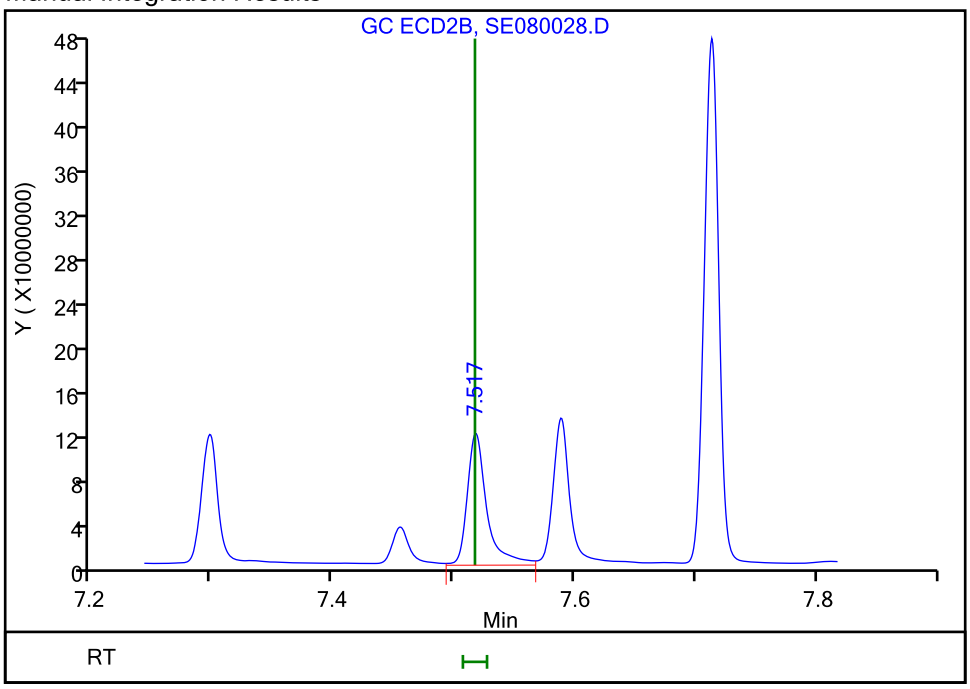
Processing Integration Results

RT: 7.52
Area: 128784842
Amount: 0.080817
Amount Units: ug/ml



Manual Integration Results

RT: 7.52
Area: 133627356
Amount: 0.083856
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

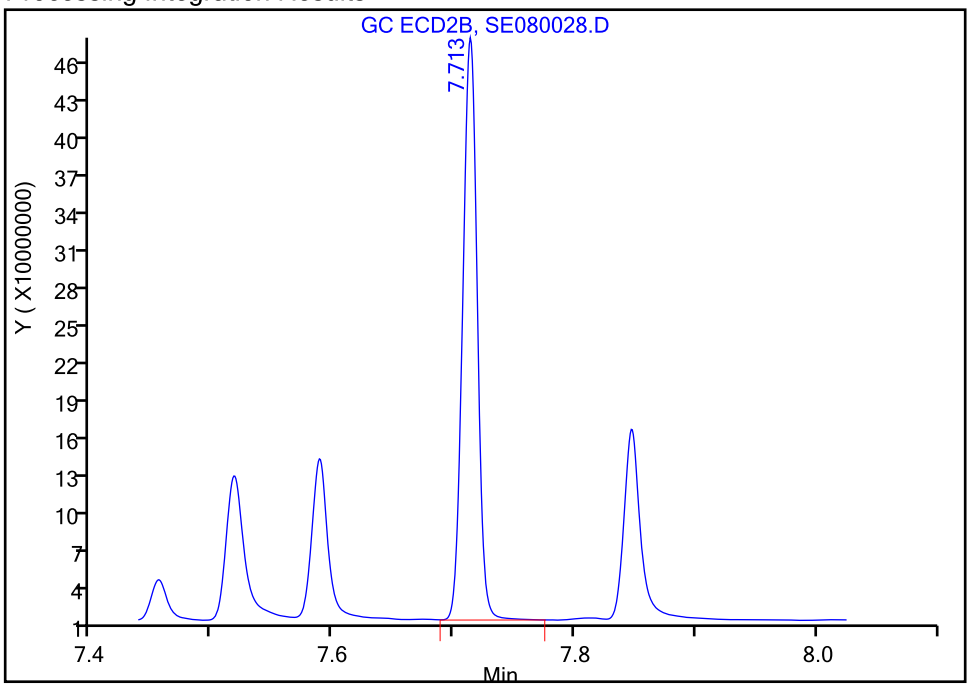
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

12 Pentachlorophenol, CAS: 87-86-5

Signal: 2

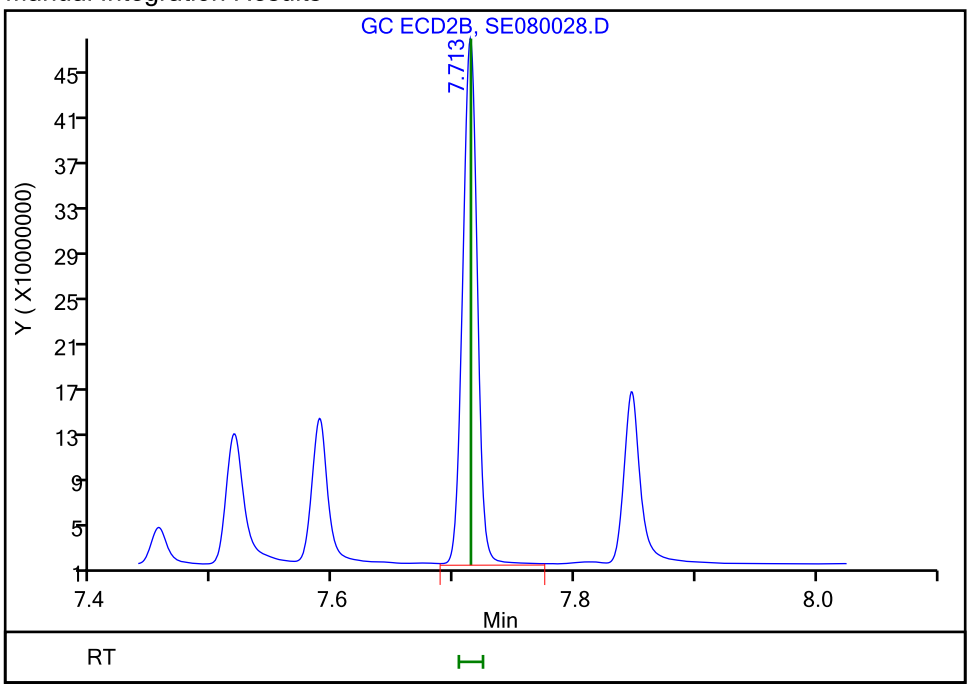
Processing Integration Results

RT: 7.71
Area: 393349149
Amount: 0.020913
Amount Units: ug/ml



Manual Integration Results

RT: 7.71
Area: 399815476
Amount: 0.021257
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

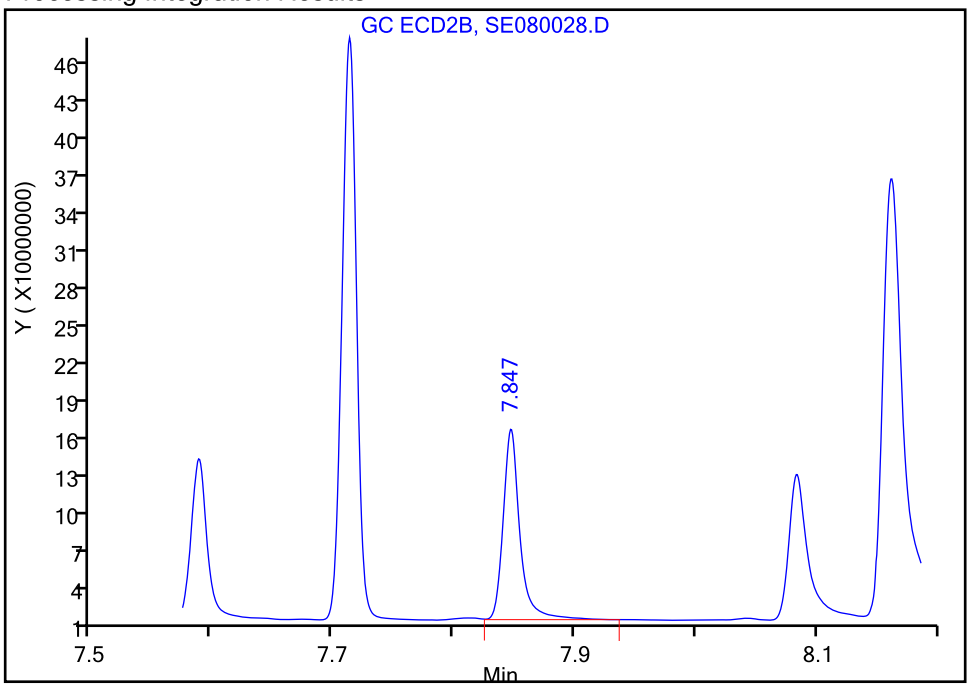
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

13 Silvex (2,4,5-TP), CAS: 93-72-1

Signal: 2

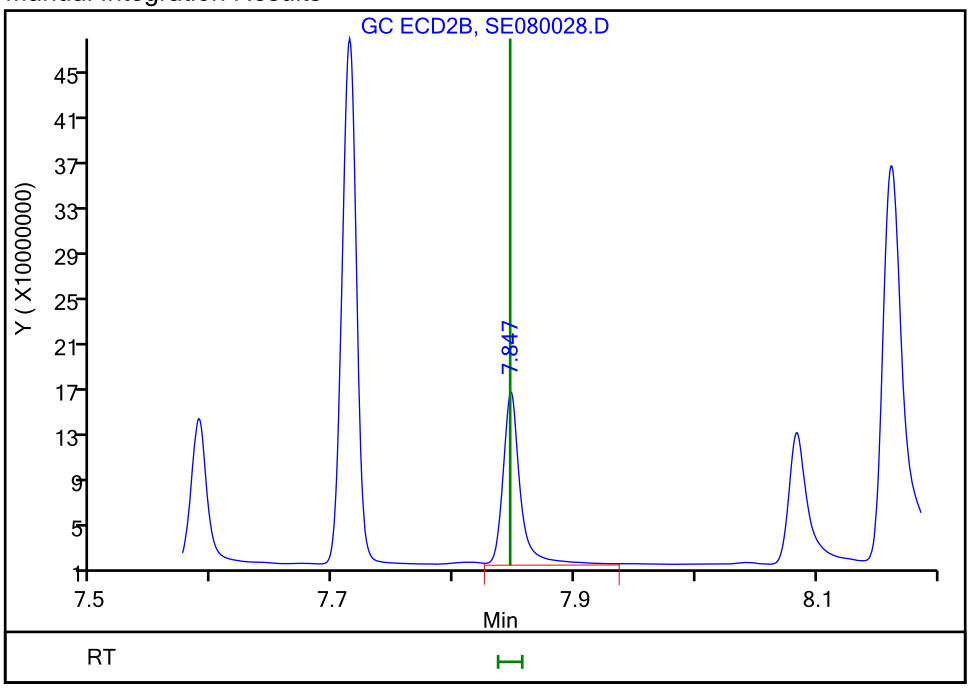
Processing Integration Results

RT: 7.85
Area: 147739565
Amount: 0.019988
Amount Units: ug/ml



Manual Integration Results

RT: 7.85
Area: 155993801
Amount: 0.021105
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

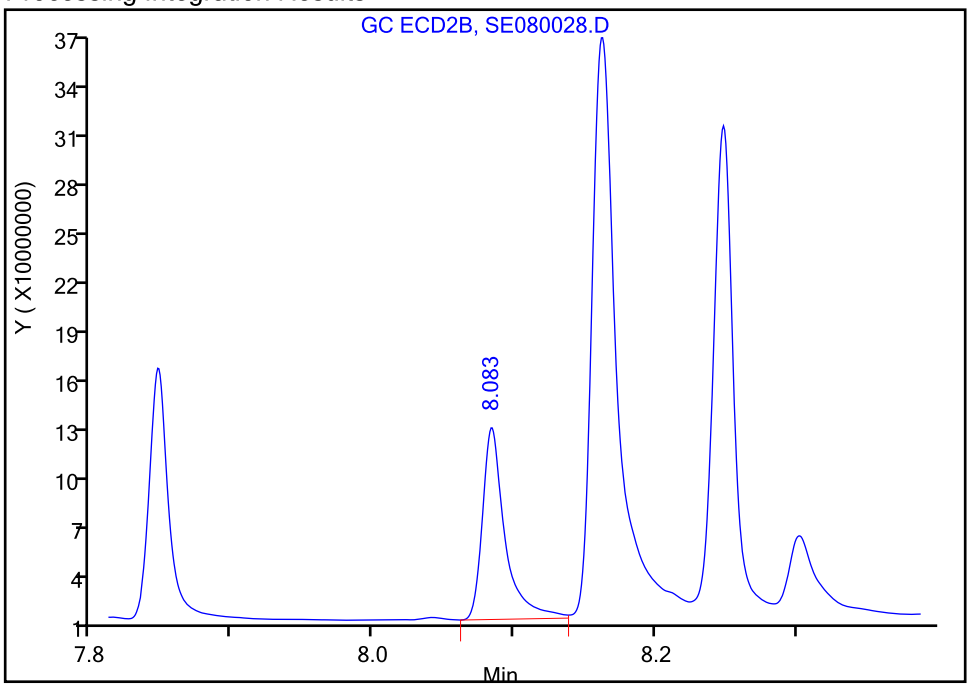
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Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

15 2,4,5-T, CAS: 93-76-5

Signal: 2

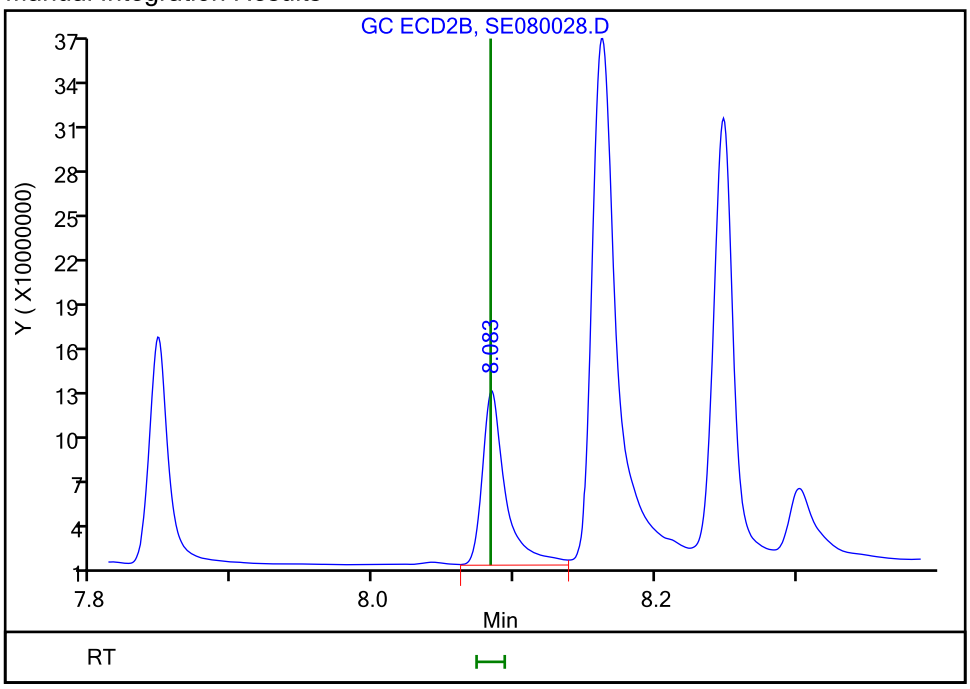
Processing Integration Results

RT: 8.08
Area: 130590316
Amount: 0.019648
Amount Units: ug/ml



Manual Integration Results

RT: 8.08
Area: 135127386
Amount: 0.020331
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

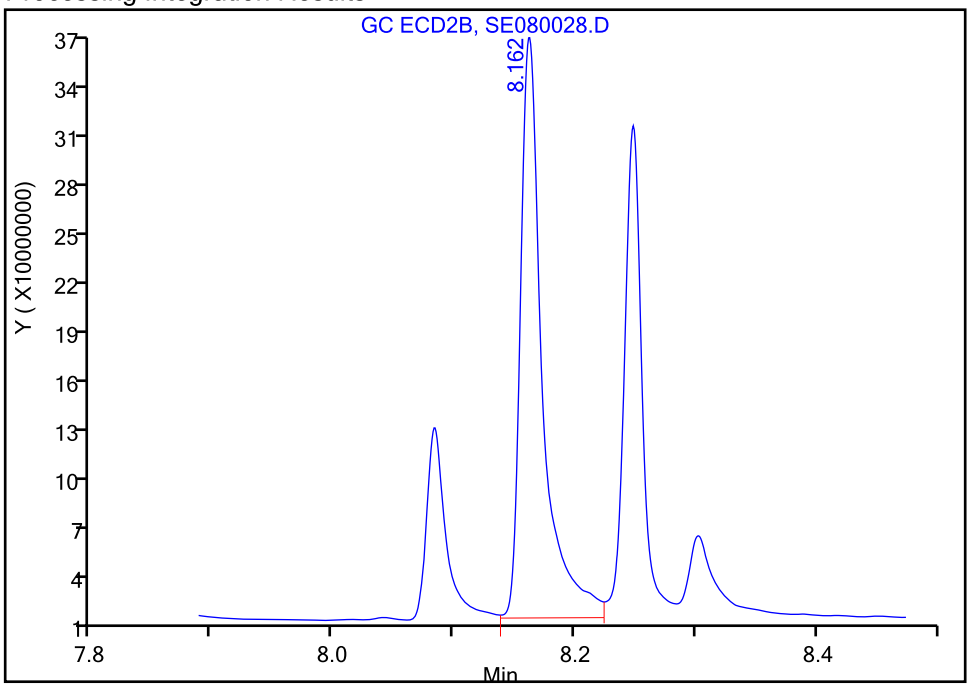
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

14 Chloramben, CAS: 133-90-4

Signal: 2

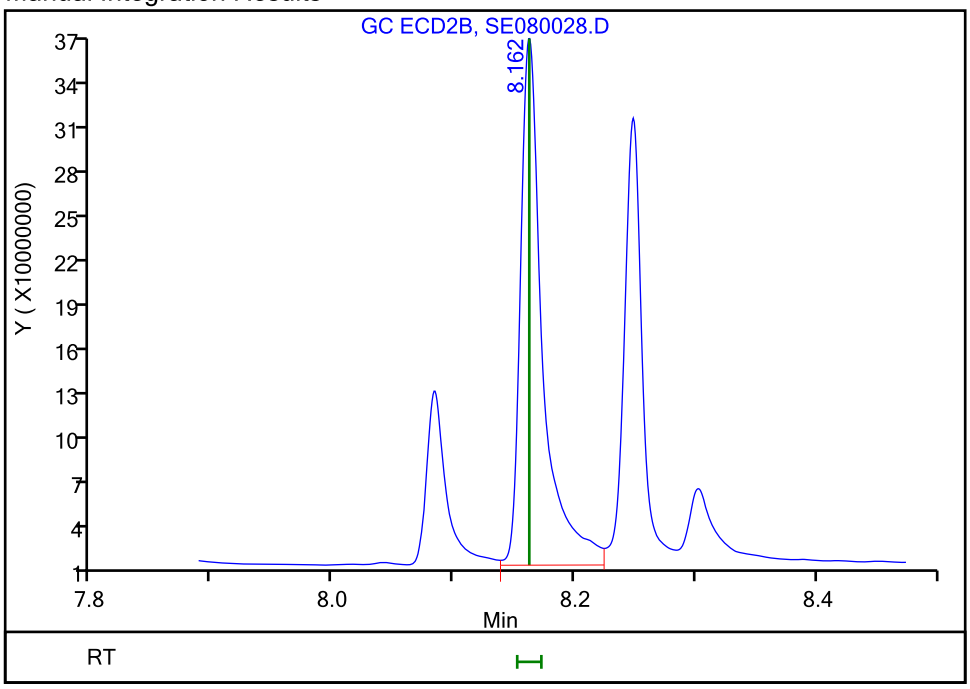
Processing Integration Results

RT: 8.16
Area: 449929024
Amount: 0.079980
Amount Units: ug/ml



Manual Integration Results

RT: 8.16
Area: 457969533
Amount: 0.081409
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

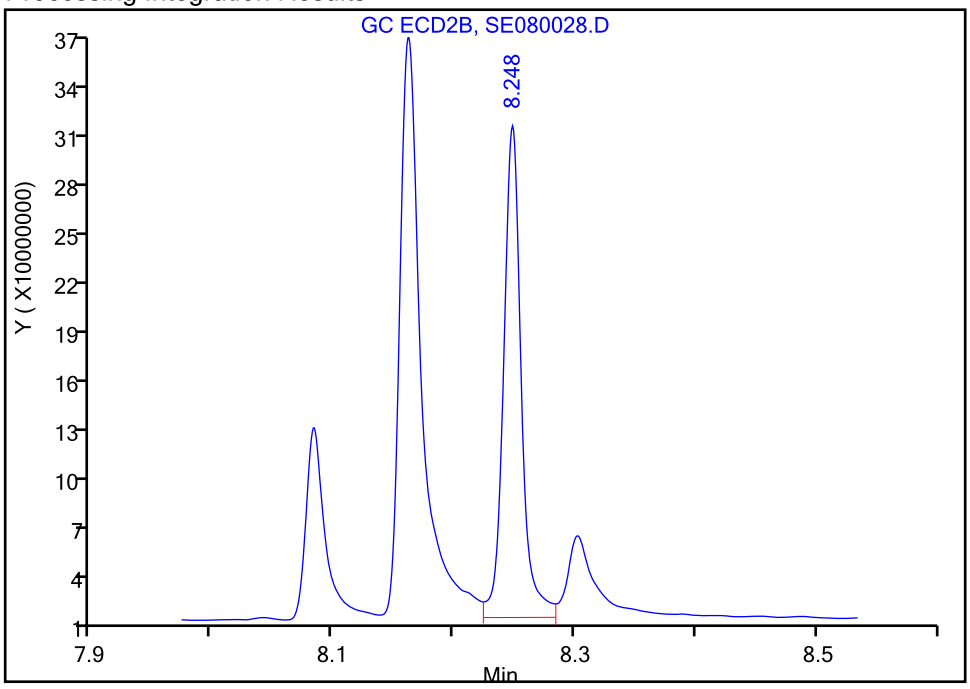
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

17 Dinoseb, CAS: 88-85-7

Signal: 2

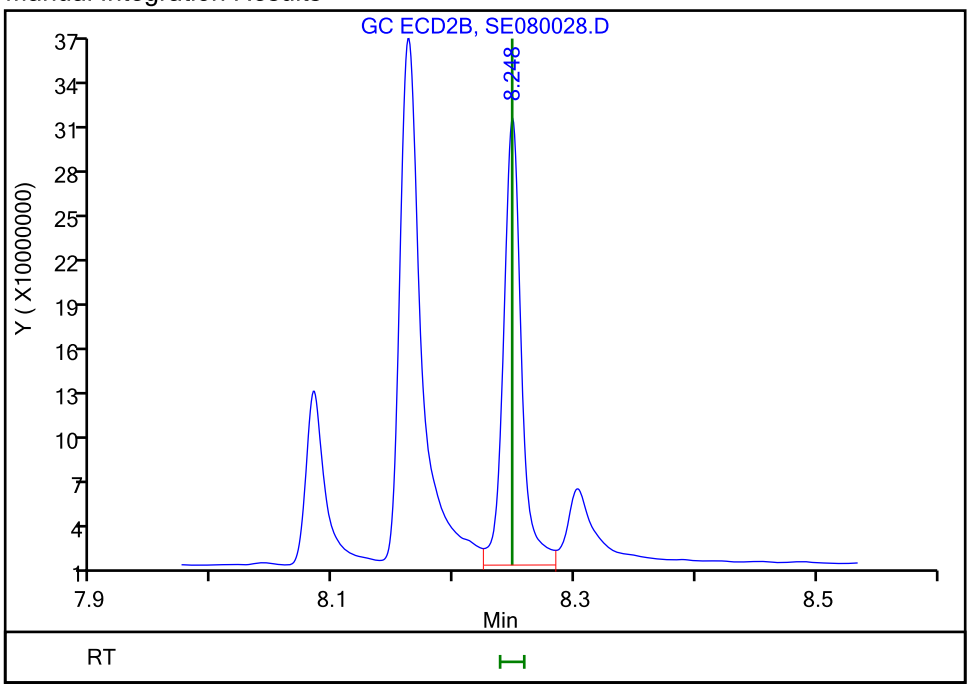
Processing Integration Results

RT: 8.25
Area: 304317252
Amount: 0.072411
Amount Units: ug/ml



Manual Integration Results

RT: 8.25
Area: 310276845
Amount: 0.073697
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

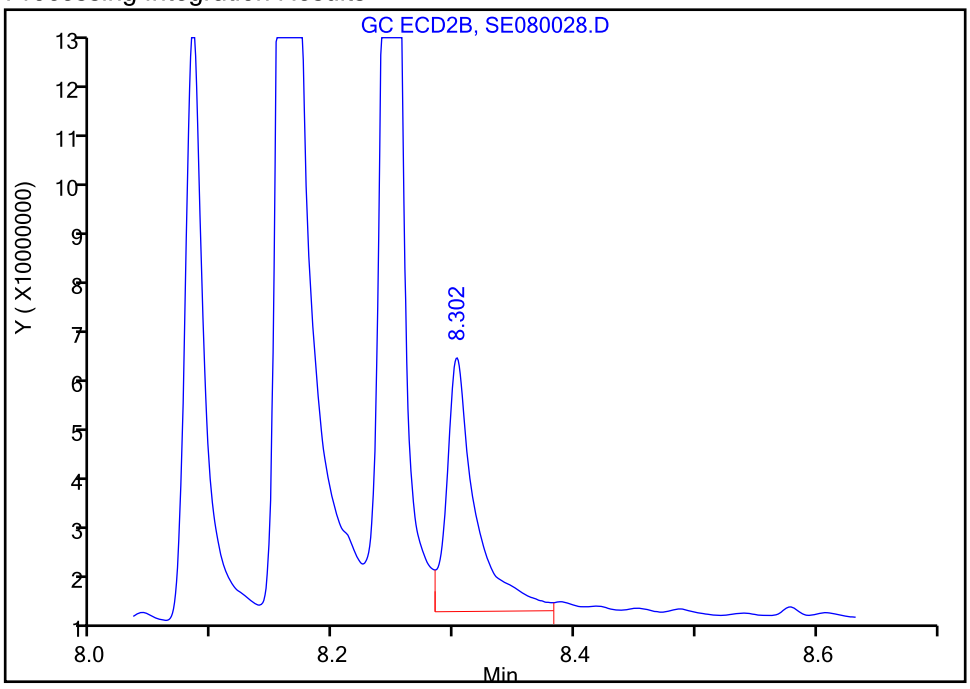
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

16 2,4-DB, CAS: 94-82-6

Signal: 2

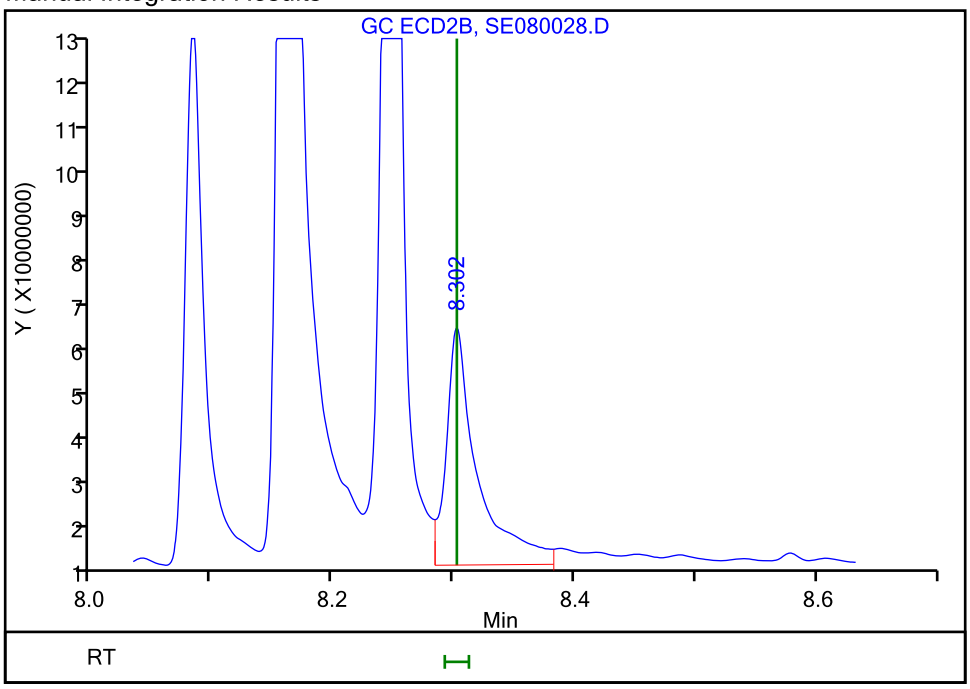
Processing Integration Results

RT: 8.30
Area: 81650887
Amount: 0.082786
Amount Units: ug/ml



Manual Integration Results

RT: 8.30
Area: 91637209
Amount: 0.092911
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

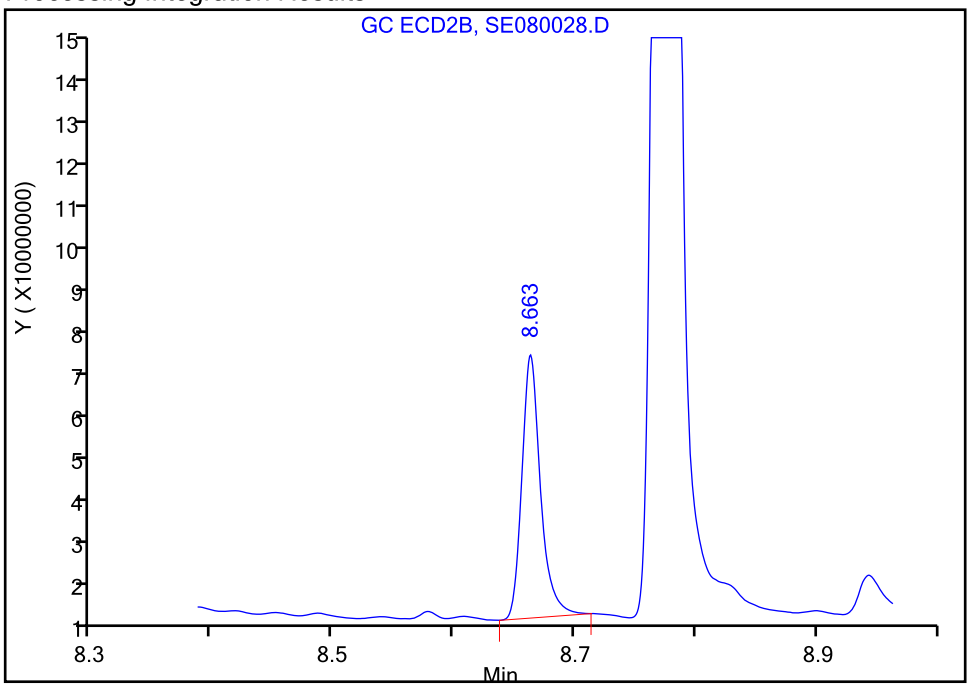
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D
Injection Date: 08-May-2018 21:40:11 Instrument ID: CSGS
Lims ID: ccv h4
Client ID:
Operator ID: GEM ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5
Column: DB-35MS (0.32 mm) Detector GC ECD2B

18 Bentazon, CAS: 25057-89-0

Signal: 2

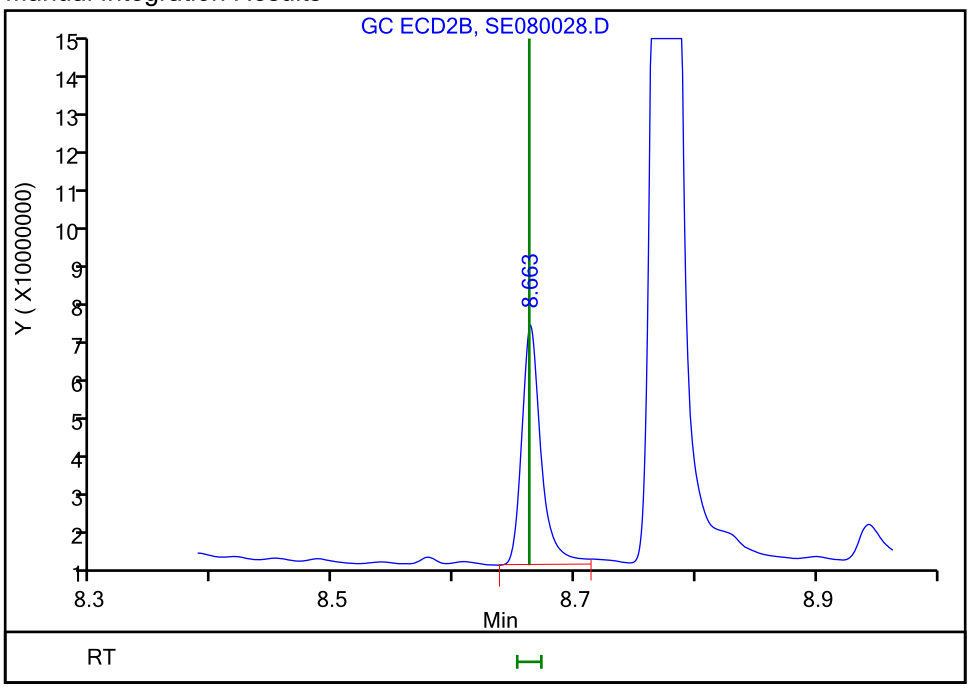
Processing Integration Results

RT: 8.66
Area: 64993171
Amount: 0.080840
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 67492156
Amount: 0.083949
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Savannah

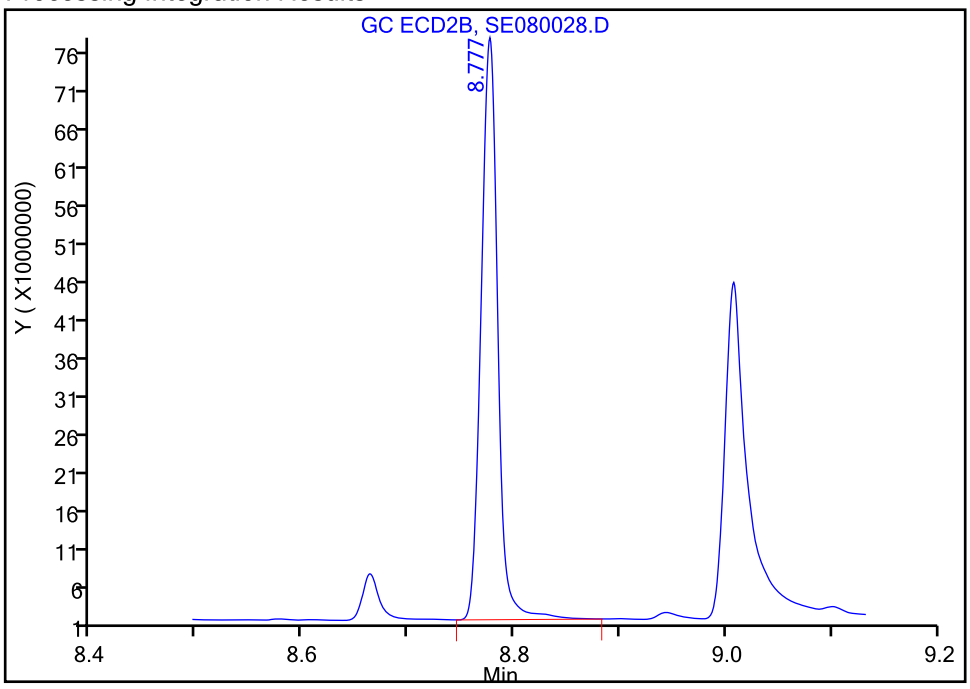
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

20 DCPA, CAS: 1861-32-1

Signal: 2

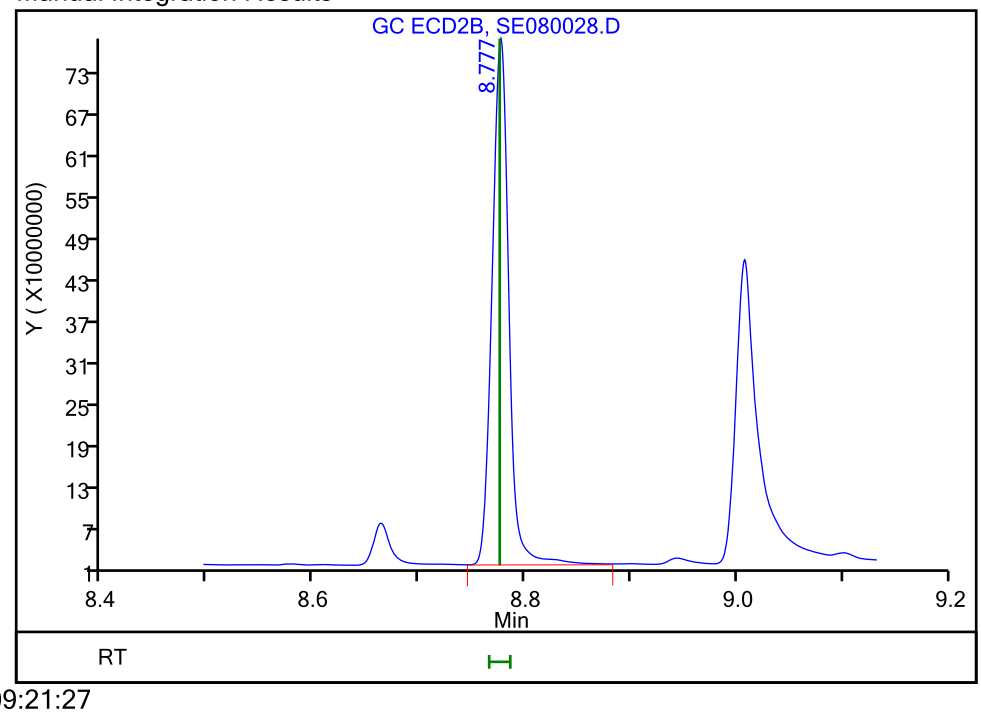
Processing Integration Results

RT: 8.78
Area: 837751076
Amount: 0.085301
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 842841434
Amount: 0.085819
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Savannah

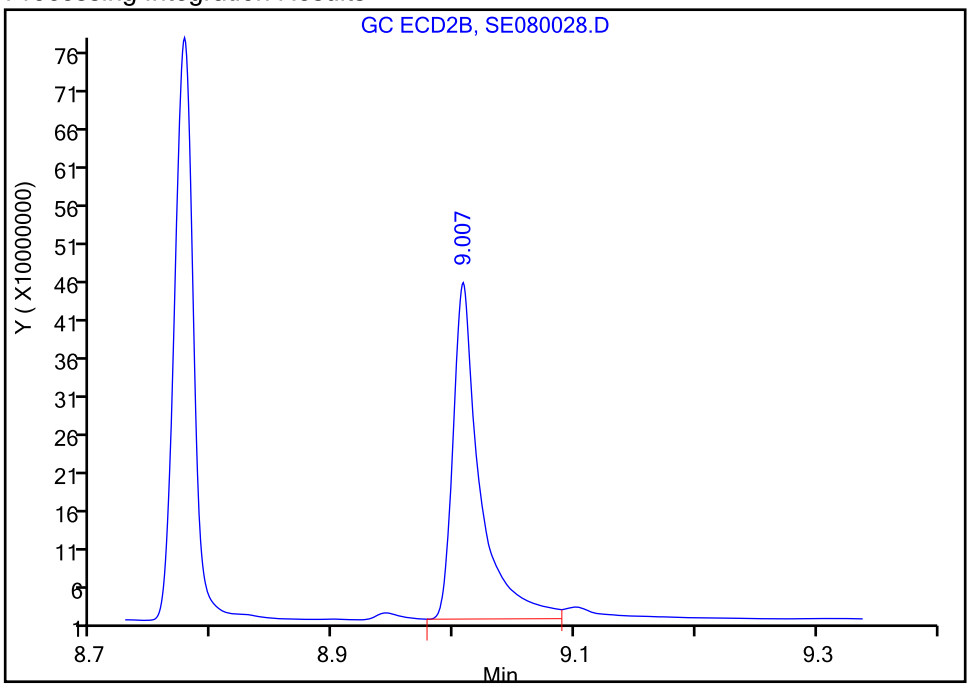
Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080028.D				
Injection Date:	08-May-2018 21:40:11	Instrument ID:	CSGS		
Lims ID:	ccv h4				
Client ID:					
Operator ID:	GEM	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		
Column:	DB-35MS (0.32 mm)	Detector	GC ECD2B		

19 Picloram, CAS: 1918-02-1

Signal: 2

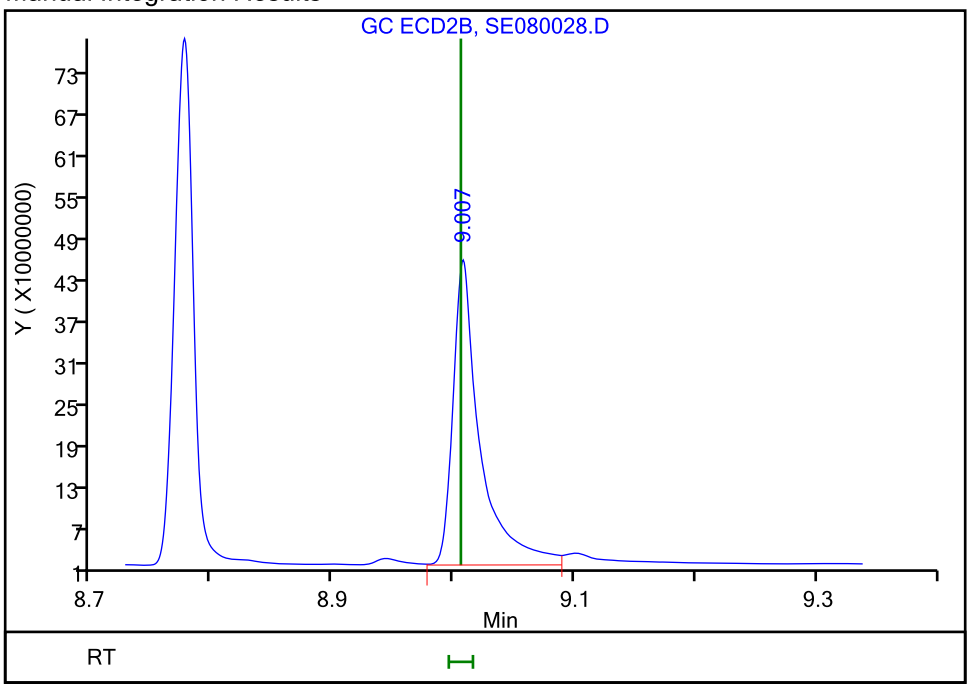
Processing Integration Results

RT: 9.01
Area: 676921306
Amount: 0.069517
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 686881952
Amount: 0.070402
Amount Units: ug/ml



Reviewer: kellarj, 09-May-2018 09:21:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	524076394	427820811		0.143	0.175	-18.4	20.0
3,5-Dichlorobenzoic acid	Ave	321415612	296583189		0.161	0.175	-7.7	20.0
4-Nitrophenol	Ave	92458216	91577274		0.173	0.175	-1.0	20.0
Dicamba	Ave	1077009527	967765931		0.0786	0.0875	-10.1	20.0
MCPP	Qua		463186		15.5	17.5	-11.5	20.0
MCPA	Ave	925968	928421		17.5	17.5	0.3	20.0
Dichlorprop	Ave	277497963	251504674		0.159	0.175	-9.4	20.0
2,4-D	Ave	302399622	288193971		0.167	0.175	-4.7	20.0
Pentachlorophenol	Ave	5383895550	4999942514		0.0406	0.0438	-7.1	20.0
Silvex (2,4,5-TP)	Ave	1878728542	1784749486		0.0416	0.0438	-5.0	20.0
Chloramben	Qua		1362967709		0.148	0.175	-15.2	20.0
2,4,5-T	Ave	2193840481	1981877189		0.0395	0.0438	-9.7	20.0
2,4-DB	Qua		140018897		0.151	0.175	-13.5	20.0
Dinoseb	Ave	1223895982	1102965480		0.158	0.175	-9.9	20.0
Bentazon	Ave	287551968	248107274		0.151	0.175	-13.7	20.0
Picloram	Qua		2203813377		0.152	0.175	-13.3	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	3293157561	3005082234		0.160	0.175	-8.7	20.0
Acifluorfen	Qua		2133379526		0.156	0.175	-10.8	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	211477985	187262200		0.155	0.175	-11.5	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-XLB ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.58	2.56	2.60
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.25	6.24	6.26
Dicamba	6.72	6.71	6.73
MCPP	6.87	6.86	6.88
MCPA	6.99	6.98	7.00
Dichlorprop	7.18	7.17	7.19
2,4-D	7.32	7.32	7.34
Pentachlorophenol	7.67	7.66	7.68
Silvex (2,4,5-TP)	7.77	7.76	7.78
Chloramben	7.85	7.85	7.87
2,4,5-T	7.93	7.92	7.94
2,4-DB	8.17	8.17	8.19
Dinoseb	8.22	8.21	8.23
Bentazon	8.30	8.29	8.31
Picloram	8.53	8.52	8.54
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.62	8.61	8.63
Acifluorfen	9.67	9.66	9.68
2,4-Dichlorophenylacetic acid (Surr)	6.68	6.67	6.69

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080038.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2018 00:55:01 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-038
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:51 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	74868642	0.1750	0.1429	
2	2.633	2.632	0.001	228091005	0.1750	0.1415	
						RPD = 0.94	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	15709201	NC	NC	
2	5.102	5.102	0.000	81447701	NC	NC	
						RPD = 6.40	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	197792324	NC	NC	
2	5.777	5.776	0.001	814623419	NC	NC	
						RPD = 4.12	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	51902058	0.1750	0.1615	
2	6.116	6.116	0.000	269503235	0.1750	0.1500	
						RPD = 7.39	
5 4-Nitrophenol							
1	6.252	6.253	-0.001	16026023	0.1750	0.1733	
2	6.504	6.505	-0.001	47684379	0.1750	0.1595	
						RPD = 8.34	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	32770885	0.1750	0.1550	
2	6.828	6.829	-0.001	207297956	0.1750	0.1473	
						RPD = 5.10	
7 Dicamba							
1	6.719	6.720	-0.001	84679519	0.0875	0.0786	
2	6.910	6.910	0.000	378314581	0.0875	0.0755	
						RPD = 4.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	8105752	17.5	15.5	
2	6.955	6.955	0.000	66707270	17.5	14.4	
						RPD = 7.18	
9 MCPA							
1	6.994	6.994	0.000	16247375	17.5	17.5	
2	7.154	7.155	-0.001	106598040	17.5	17.6	
						RPD = 0.16	
10 Dichlorprop							
1	7.180	7.180	0.000	44013318	0.1750	0.1586	
2	7.297	7.297	0.000	204624887	0.1750	0.1451	
						RPD = 8.87	
11 2,4-D							
1	7.324	7.326	-0.002	50433945	0.1750	0.1668	
2	7.516	7.517	-0.001	241432402	0.1750	0.1515	
						RPD = 9.60	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	218747485	0.0438	0.0406	
2	7.713	7.714	-0.001	739224164	0.0438	0.0393	
						RPD = 3.32	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	78082790	0.0438	0.0416	
2	7.846	7.846	0.000	285344847	0.0438	0.0386	
						RPD = 7.37	
14 Chloramben							
1	7.852	7.855	-0.003	238519349	0.1750	0.1484	
2	8.159	8.162	-0.003	877032133	0.1750	0.1559	
						RPD = 4.95	
15 2,4,5-T							
1	7.925	7.929	-0.004	86707127	0.0438	0.0395	
2	8.081	8.083	-0.002	257818803	0.0438	0.0388	
						RPD = 1.87	
16 2,4-DB							
1	8.172	8.175	-0.003	24503307	0.1750	0.1514	
2	8.299	8.302	-0.003	149059866	0.1750	0.1511	
						RPD = 0.18	
17 Dinoseb							
1	8.222	8.224	-0.002	193018959	0.1750	0.1577	
2	8.248	8.248	0.000	599229354	0.1750	0.1360	
						RPD = 14.76	
18 Bentazon							
1	8.299	8.300	-0.001	43418773	0.1750	0.1510	
2	8.662	8.662	0.000	121010538	0.1750	0.1505	
						RPD = 0.32	
19 Picloram							
1	8.526	8.529	-0.003	385667341	0.1750	0.1518	
2	9.005	9.005	0.000	1378057284	0.1750	0.1318	
						RPD = 14.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	525889391	0.1750	0.1597	
2	8.777	8.775	0.002	1570076998	0.1750	0.1599	
						RPD = 0.11	
21 Acifluorfen							
1	9.665	9.666	-0.001	373341417	0.1750	0.1561	
2	9.791	9.792	-0.001	1116042155	0.1750	0.1517	
						RPD = 2.89	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

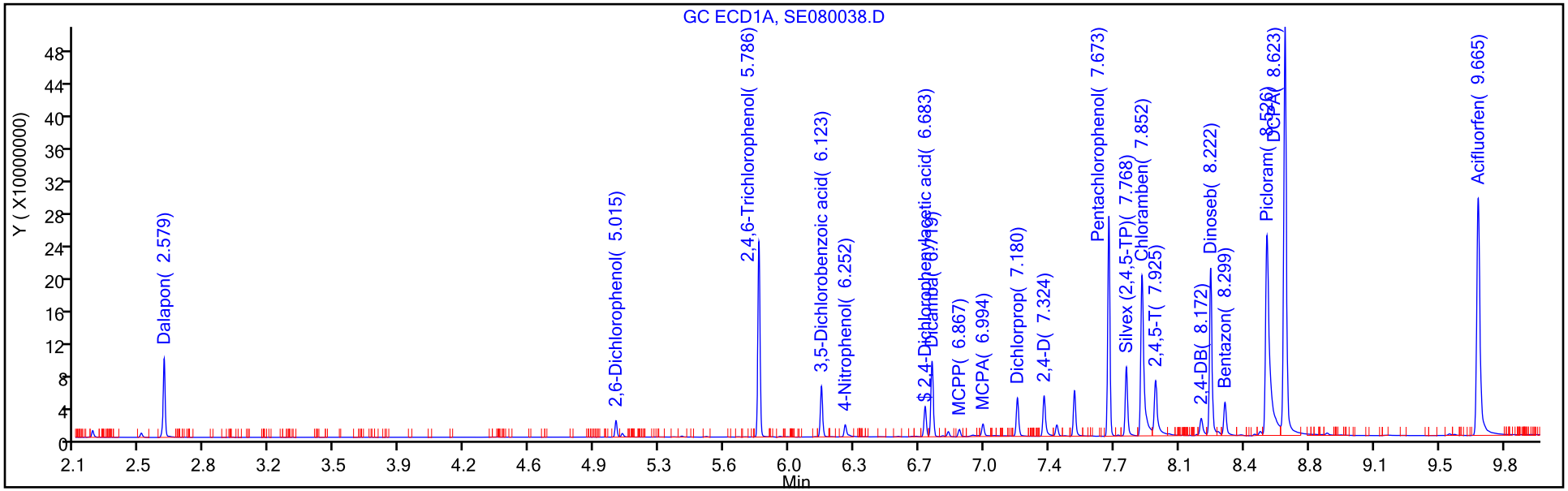
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TestAmerica Savannah

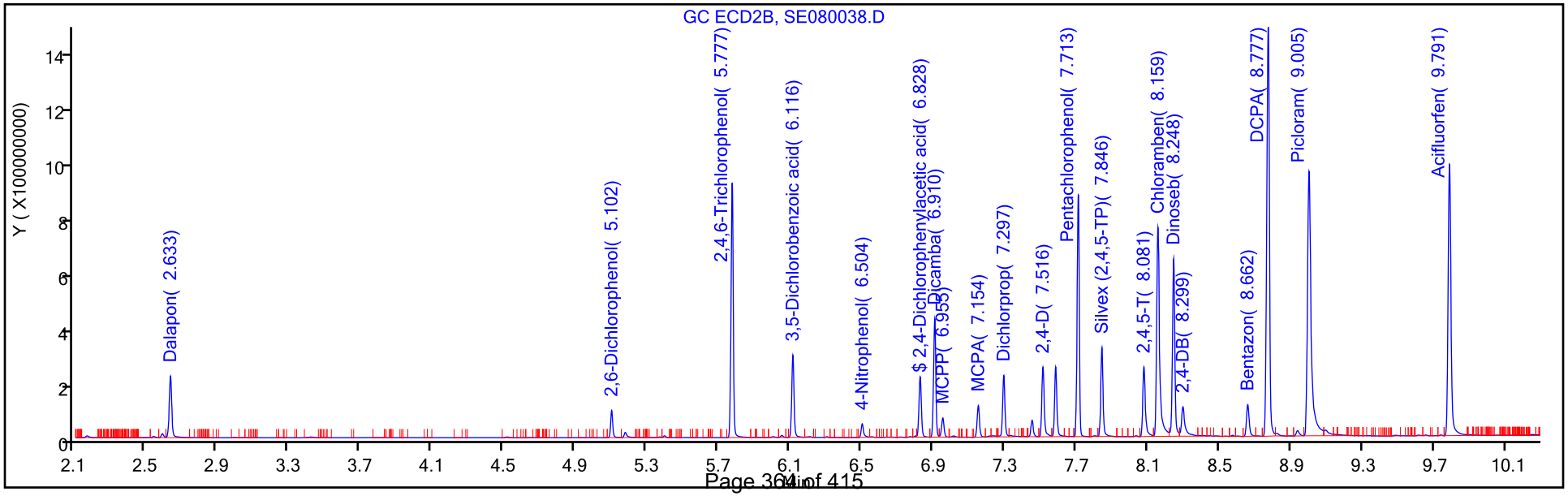
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Injection Date:	09-May-2018 00:55:01	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Ave	1611774466	1303377171		0.142	0.175	-19.1	20.0
3,5-Dichlorobenzoic acid	Ave	1796964783	1540018486		0.150	0.175	-14.3	20.0
4-Nitrophenol	Ave	299039718	272482166		0.159	0.175	-8.9	20.0
Dicamba	Ave	5009061262	4323595211		0.0755	0.0875	-13.7	20.0
MCPP	Lin2		3811844		14.4	17.5	-17.6	20.0
MCPA	QuaF		6091317		17.6	17.5	0.4	20.0
Dichlorprop	Ave	1409813393	1169285069		0.145	0.175	-17.1	20.0
2,4-D	Ave	1593535987	1379613726		0.152	0.175	-13.4	20.0
Pentachlorophenol	Ave	18808678996	16896552320		0.0393	0.0438	-10.2	20.0
Silvex (2,4,5-TP)	Ave	7391322149	6522167931		0.0386	0.0438	-11.8	20.0
2,4,5-T	Ave	6646535168	5893001211		0.0388	0.0438	-11.3	20.0
Chloramben	Ave	5625509945	5011612189		0.156	0.175	-10.9	20.0
Dinoseb	Lin1		3424167737		0.136	0.175	-22.3*	20.0
2,4-DB	Ave	986290097	851770663		0.151	0.175	-13.6	20.0
Bentazon	Ave	803969083	691488789		0.151	0.175	-14.0	20.0
Tetraphthalic acid, tetrachloro-, dimethyl ester	Ave	9821124803	8971868560		0.160	0.175	-8.6	20.0
Picloram	Lin1		7874613051		0.132	0.175	-24.7*	20.0
Acifluorfen	Qua		6377383743		0.152	0.175	-13.3	20.0
2,4-Dichlorophenylacetic acid (Surr)	Ave	1407755771	1184559749		0.147	0.175	-15.9	20.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Lab Sample ID: CCV 680-523063/38 Calibration Date: 05/09/2018 00:55

Instrument ID: CSGS Calib Start Date: 05/08/2018 11:58

GC Column: DB-35MS ID: 0.32(mm) Calib End Date: 05/08/2018 14:15

Lab File ID: SE080038.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	2.63	2.61	2.65
3,5-Dichlorobenzoic acid	6.12	6.11	6.13
4-Nitrophenol	6.50	6.50	6.52
Dicamba	6.91	6.90	6.92
MCPP	6.96	6.95	6.97
MCPA	7.15	7.15	7.17
Dichlorprop	7.30	7.29	7.31
2,4-D	7.52	7.51	7.53
Pentachlorophenol	7.71	7.70	7.72
Silvex (2,4,5-TP)	7.85	7.84	7.86
2,4,5-T	8.08	8.07	8.09
Chloramben	8.16	8.15	8.17
Dinoseb	8.25	8.24	8.26
2,4-DB	8.30	8.29	8.31
Bentazon	8.66	8.65	8.67
Tetraphthalic acid, tetrachloro-, dimethyl ester	8.78	8.77	8.79
Picloram	9.01	9.00	9.02
Acifluorfen	9.79	9.78	9.80
2,4-Dichlorophenylacetic acid (Surr)	6.83	6.82	6.84

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080038.D
Lims ID: ccv h5
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2018 00:55:01 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-038
Operator ID: GEM Instrument ID: CSGS
Sublist: chrom-Herbicides_CSGS*sub9

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:51 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	74868642	0.1750	0.1429	
2	2.633	2.632	0.001	228091005	0.1750	0.1415	
						RPD = 0.94	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	15709201	NC	NC	
2	5.102	5.102	0.000	81447701	NC	NC	
						RPD = 6.40	
3 2,4,6-Trichlorophenol							
1	5.786	5.786	0.000	197792324	NC	NC	
2	5.777	5.776	0.001	814623419	NC	NC	
						RPD = 4.12	
4 3,5-Dichlorobenzoic acid							
1	6.123	6.124	-0.001	51902058	0.1750	0.1615	
2	6.116	6.116	0.000	269503235	0.1750	0.1500	
						RPD = 7.39	
5 4-Nitrophenol							
1	6.252	6.253	-0.001	16026023	0.1750	0.1733	
2	6.504	6.505	-0.001	47684379	0.1750	0.1595	
						RPD = 8.34	
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	32770885	0.1750	0.1550	
2	6.828	6.829	-0.001	207297956	0.1750	0.1473	
						RPD = 5.10	
7 Dicamba							
1	6.719	6.720	-0.001	84679519	0.0875	0.0786	
2	6.910	6.910	0.000	378314581	0.0875	0.0755	
						RPD = 4.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							
1	6.867	6.867	0.000	8105752	17.5	15.5	
2	6.955	6.955	0.000	66707270	17.5	14.4	
						RPD = 7.18	
9 MCPA							
1	6.994	6.994	0.000	16247375	17.5	17.5	
2	7.154	7.155	-0.001	106598040	17.5	17.6	
						RPD = 0.16	
10 Dichlorprop							
1	7.180	7.180	0.000	44013318	0.1750	0.1586	
2	7.297	7.297	0.000	204624887	0.1750	0.1451	
						RPD = 8.87	
11 2,4-D							
1	7.324	7.326	-0.002	50433945	0.1750	0.1668	
2	7.516	7.517	-0.001	241432402	0.1750	0.1515	
						RPD = 9.60	
12 Pentachlorophenol							
1	7.673	7.674	-0.001	218747485	0.0438	0.0406	
2	7.713	7.714	-0.001	739224164	0.0438	0.0393	
						RPD = 3.32	
13 Silvex (2,4,5-TP)							
1	7.768	7.769	-0.001	78082790	0.0438	0.0416	
2	7.846	7.846	0.000	285344847	0.0438	0.0386	
						RPD = 7.37	
14 Chloramben							
1	7.852	7.855	-0.003	238519349	0.1750	0.1484	
2	8.159	8.162	-0.003	877032133	0.1750	0.1559	
						RPD = 4.95	
15 2,4,5-T							
1	7.925	7.929	-0.004	86707127	0.0438	0.0395	
2	8.081	8.083	-0.002	257818803	0.0438	0.0388	
						RPD = 1.87	
16 2,4-DB							
1	8.172	8.175	-0.003	24503307	0.1750	0.1514	
2	8.299	8.302	-0.003	149059866	0.1750	0.1511	
						RPD = 0.18	
17 Dinoseb							
1	8.222	8.224	-0.002	193018959	0.1750	0.1577	
2	8.248	8.248	0.000	599229354	0.1750	0.1360	
						RPD = 14.76	
18 Bentazon							
1	8.299	8.300	-0.001	43418773	0.1750	0.1510	
2	8.662	8.662	0.000	121010538	0.1750	0.1505	
						RPD = 0.32	
19 Picloram							
1	8.526	8.529	-0.003	385667341	0.1750	0.1518	
2	9.005	9.005	0.000	1378057284	0.1750	0.1318	
						RPD = 14.09	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							
1	8.623	8.623	0.000	525889391	0.1750	0.1597	
2	8.777	8.775	0.002	1570076998	0.1750	0.1599	
						RPD = 0.11	
21 Acifluorfen							
1	9.665	9.666	-0.001	373341417	0.1750	0.1561	
2	9.791	9.792	-0.001	1116042155	0.1750	0.1517	
						RPD = 2.89	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGHERB-5_00016 Amount Added: 1.00 Units: mL

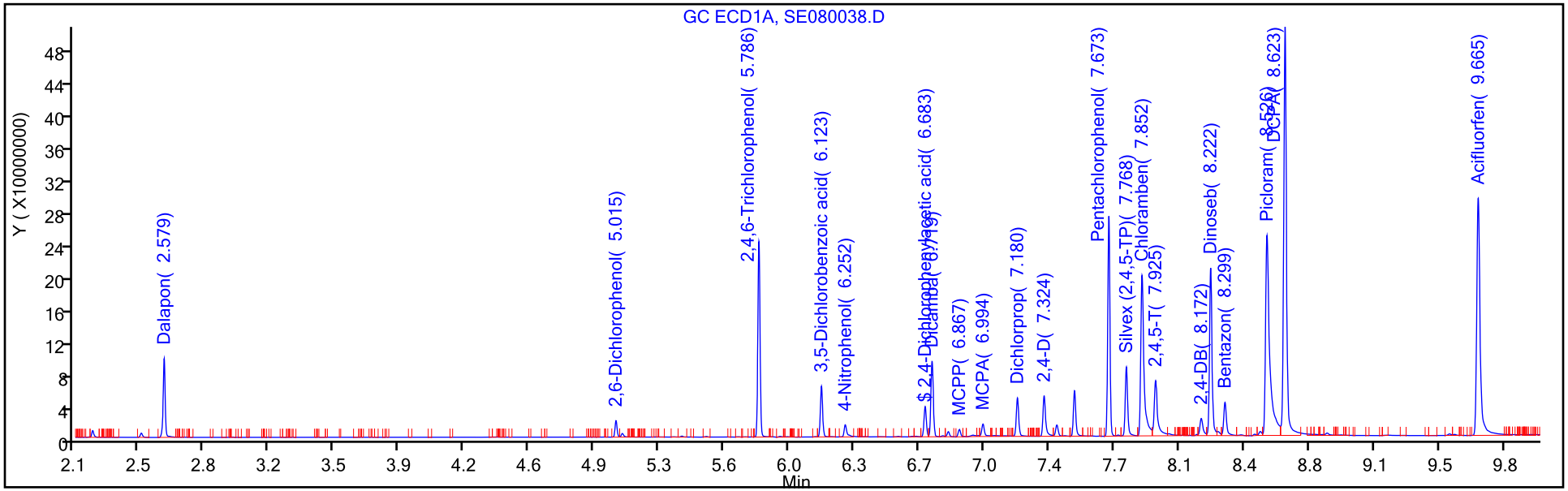
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TestAmerica Savannah

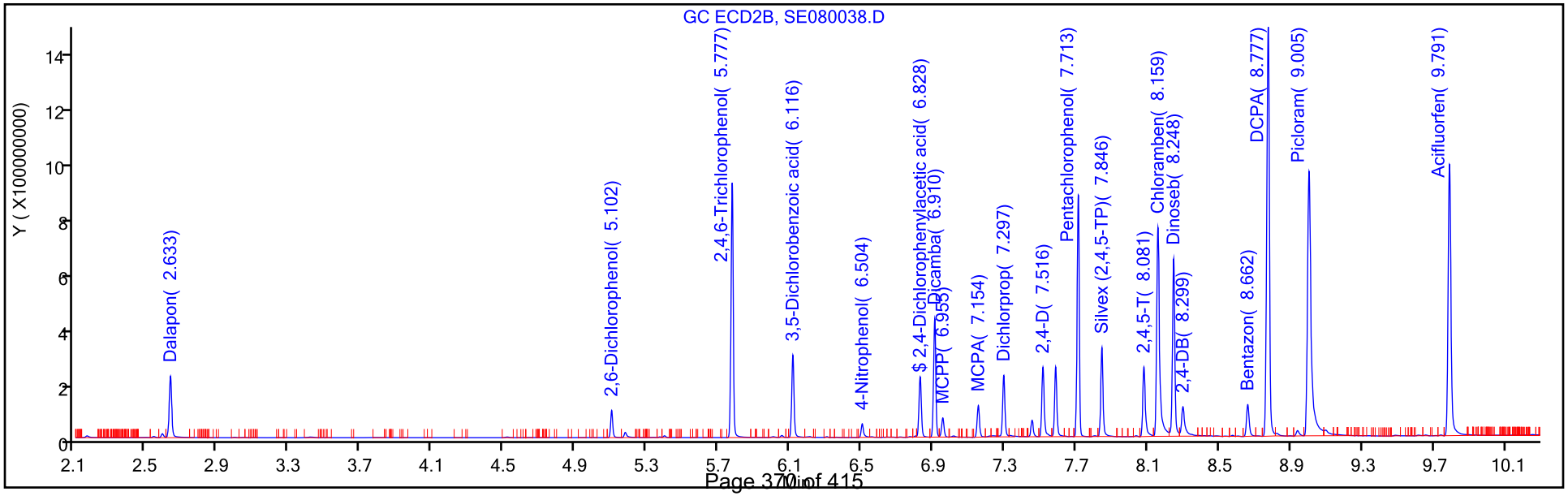
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Injection Date:	09-May-2018 00:55:01	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	ccv h5			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 680-522541/10-A

Matrix: Solid | Lab File ID: SE080030.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.02(g) | Date Analyzed: 05/08/2018 22:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	4.3	U M	8.3	4.3	2.3
94-75-7	2,4-D	8.3	U	8.3	8.3	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	52		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080030.D				
Lims ID:	MB 680-522541/10-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	08-May-2018 22:19:12	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-030				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:29:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.683	6.683	0.000	25404910	0.2000	0.1201	
2	6.828	6.829	-0.001	146536865	0.2000	0.1041	
						RPD = 14.31	
12 Pentachlorophenol							
1	7.671	7.674	-0.003	2673336		0.000497	
2	7.714	7.714	0.000	4902202		0.000261	
						RPD = 62.31	

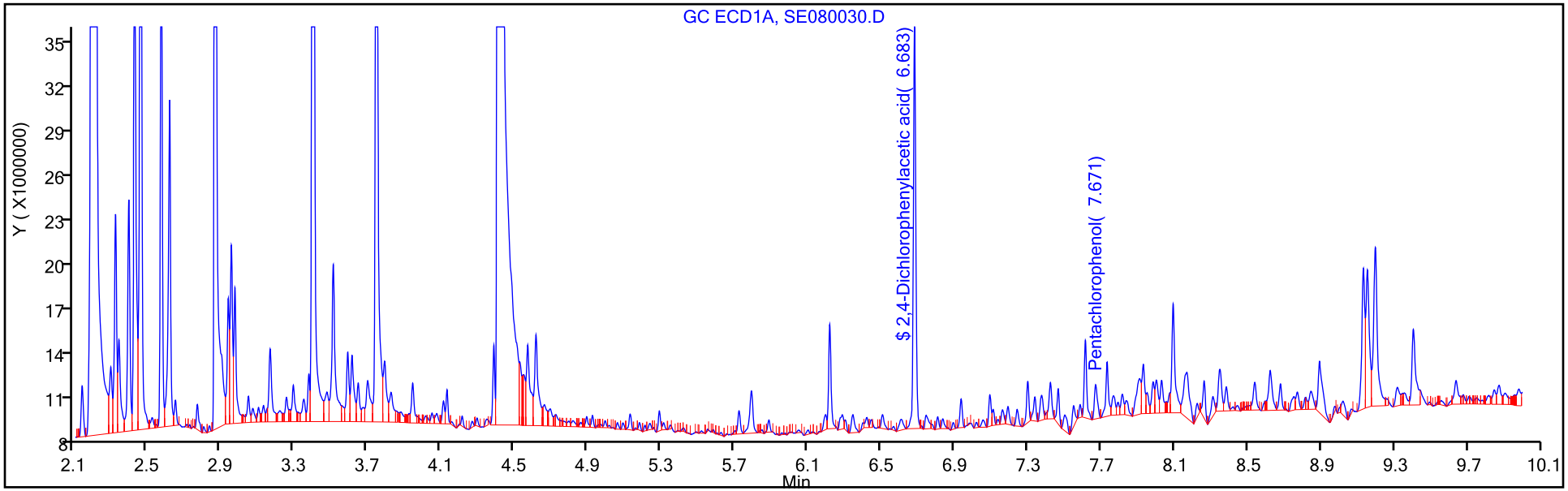
Report Date: 09-May-2018 09:37:30 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

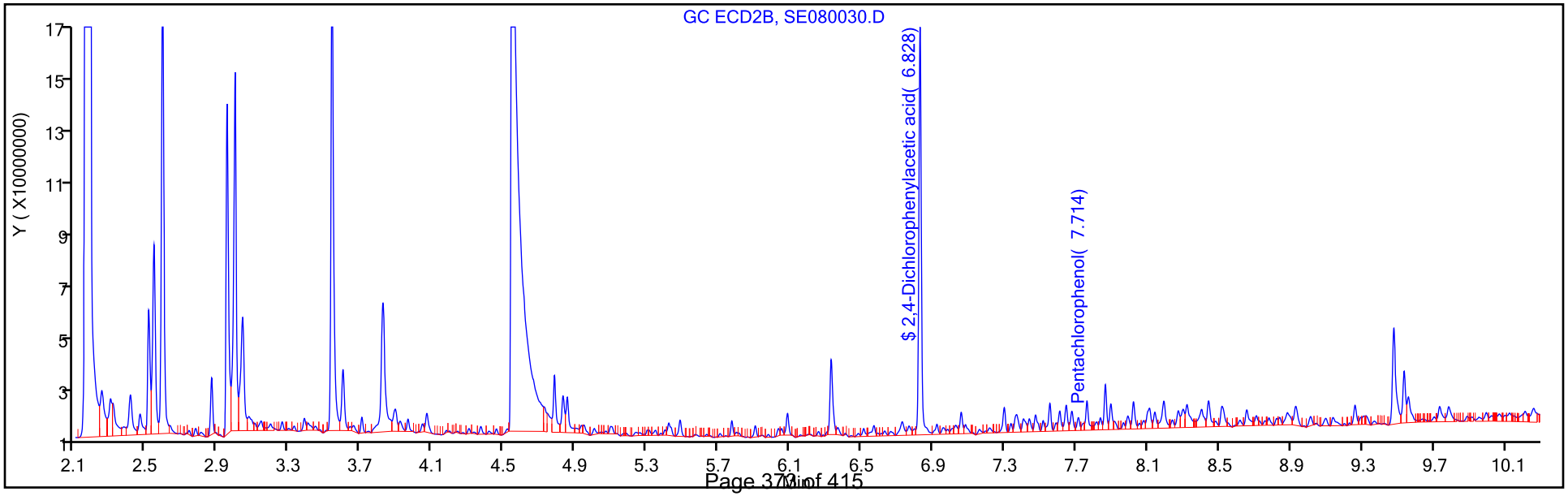
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Injection Date:	08-May-2018 22:19:12	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	MB 680-522541/10-A			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080030.D				
Lims ID:	MB 680-522541/10-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	08-May-2018 22:19:12	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-030				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:29:27		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1201	60.07

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1041	52.05

User Disabled Compound Report

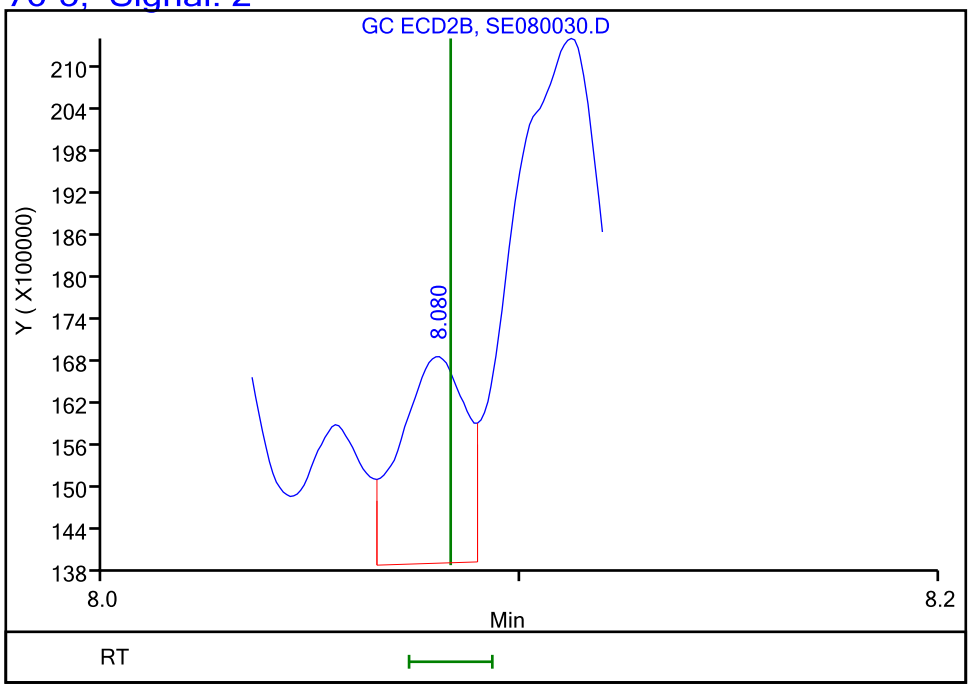
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080030.D
Injection Date: 08-May-2018 22:19:12 Instrument ID: CSGS
Lims ID: MB 680-522541/10-A
Client ID:
Operator ID: GEM ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

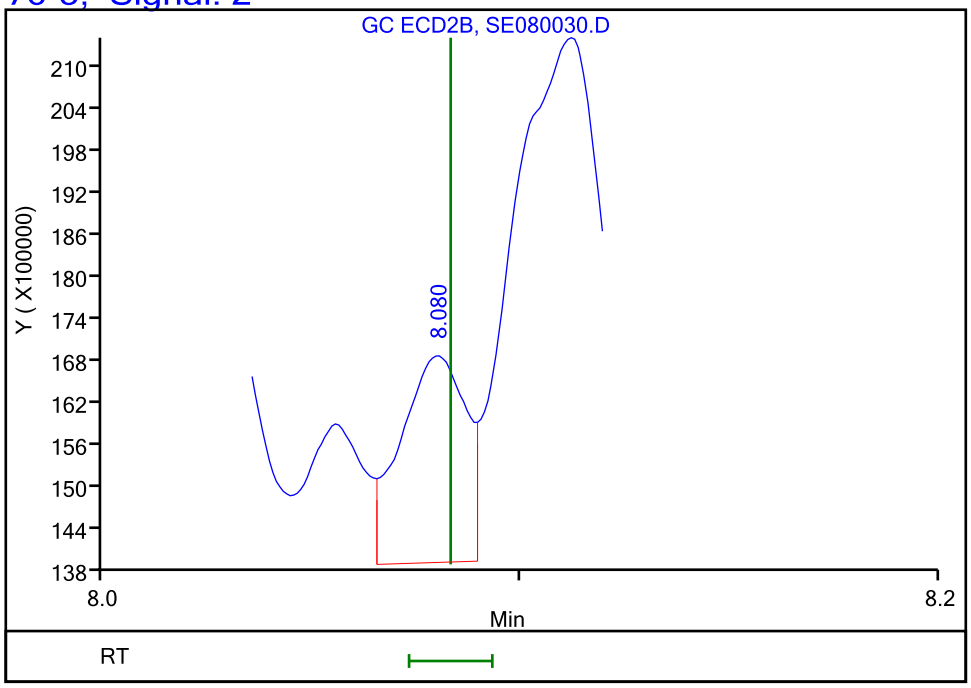
RT: 8.08
Response: 3234514
Amount: 0.000487



Column: DB-35MS (0.32 mm) Detector GC ECD2B

15 2,4,5-T, CAS: 93-76-5, Signal: 2

RT: 8.08
Response: 3234514
Amount: 0.000487



Reviewer: kellarj, 09-May-2018 09:29:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/29

Matrix: Solid | Lab File ID: SE080029.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/08/2018 21:59

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U M	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	80		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:21:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	170593061	1.00	0.8067	
2	6.831	6.829	0.002	995138894	1.00	0.7069	
						RPD = 13.18	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

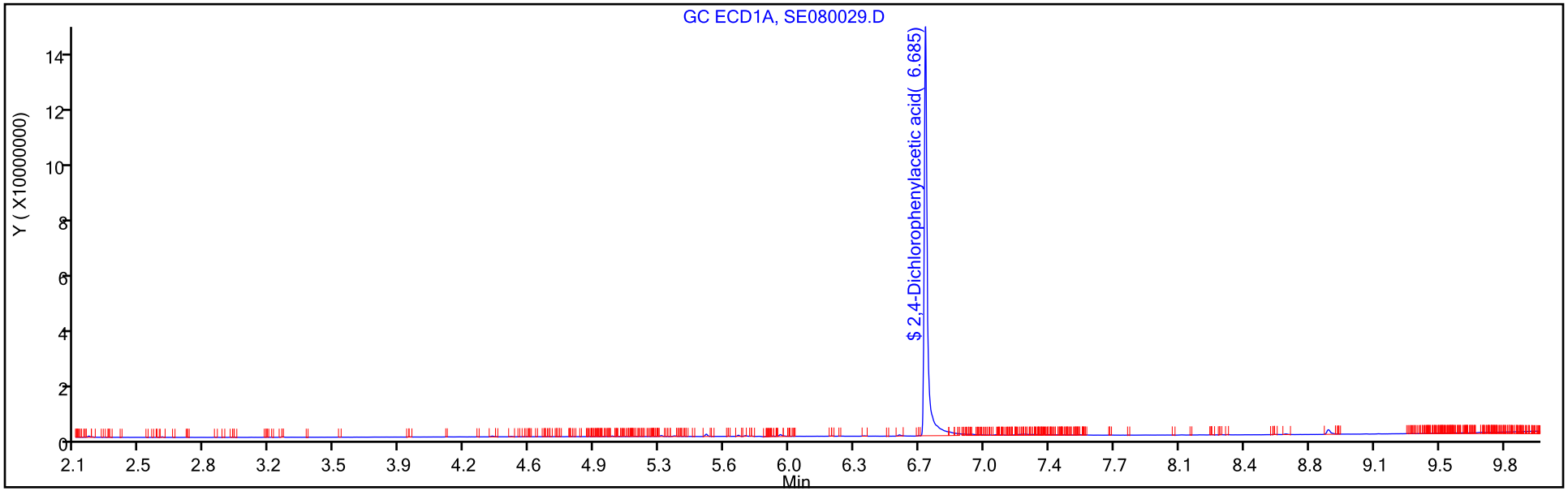
Report Date: 09-May-2018 09:37:36 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

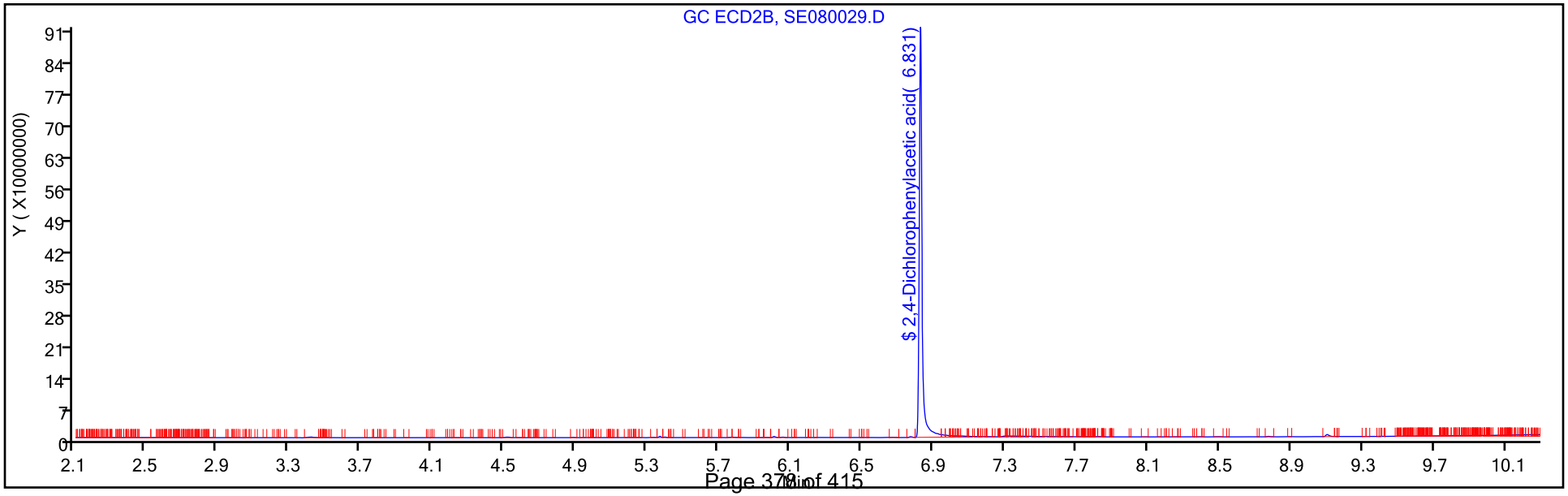
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Injection Date:	08-May-2018 21:59:46	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:21:42		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8067	80.35

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7069	70.41

User Disabled Compound Report

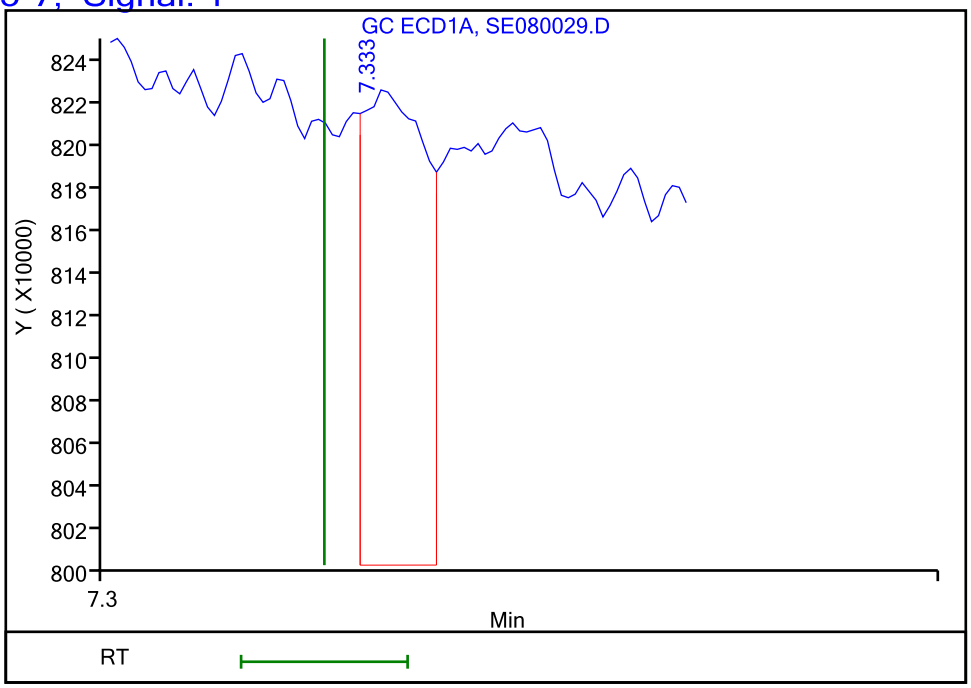
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D
Injection Date: 08-May-2018 21:59:46 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Detector GC ECD1A

11 2,4-D, CAS: 94-75-7, Signal: 1

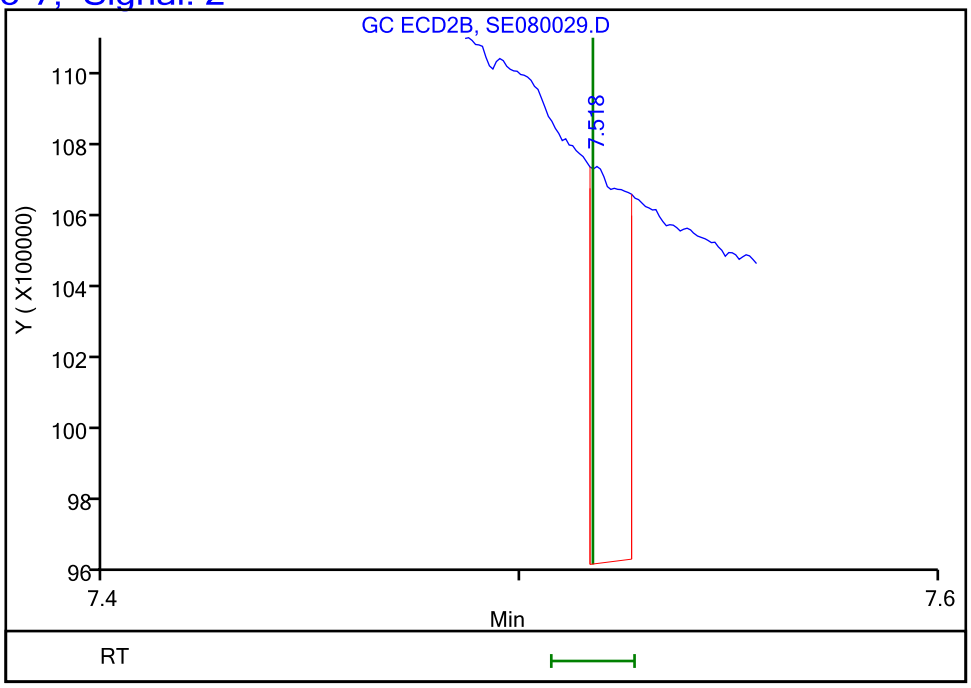
RT: 7.33
Response: 107513
Amount: 0.000356



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 574902
Amount: 0.000361



Reviewer: kellarj, 09-May-2018 09:21:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/29

Matrix: Solid | Lab File ID: SE080029.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/08/2018 21:59

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U M*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	70		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:21:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.685	6.683	0.002	170593061	1.00	0.8067	
2	6.831	6.829	0.002	995138894	1.00	0.7069	
						RPD = 13.18	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

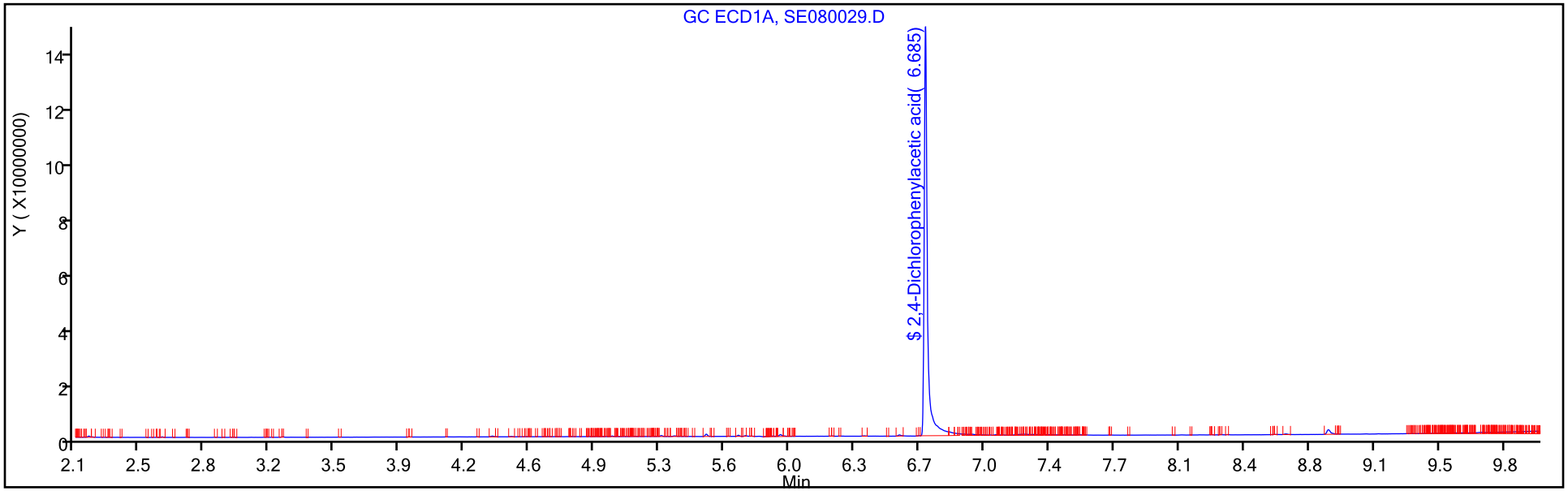
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TestAmerica Savannah

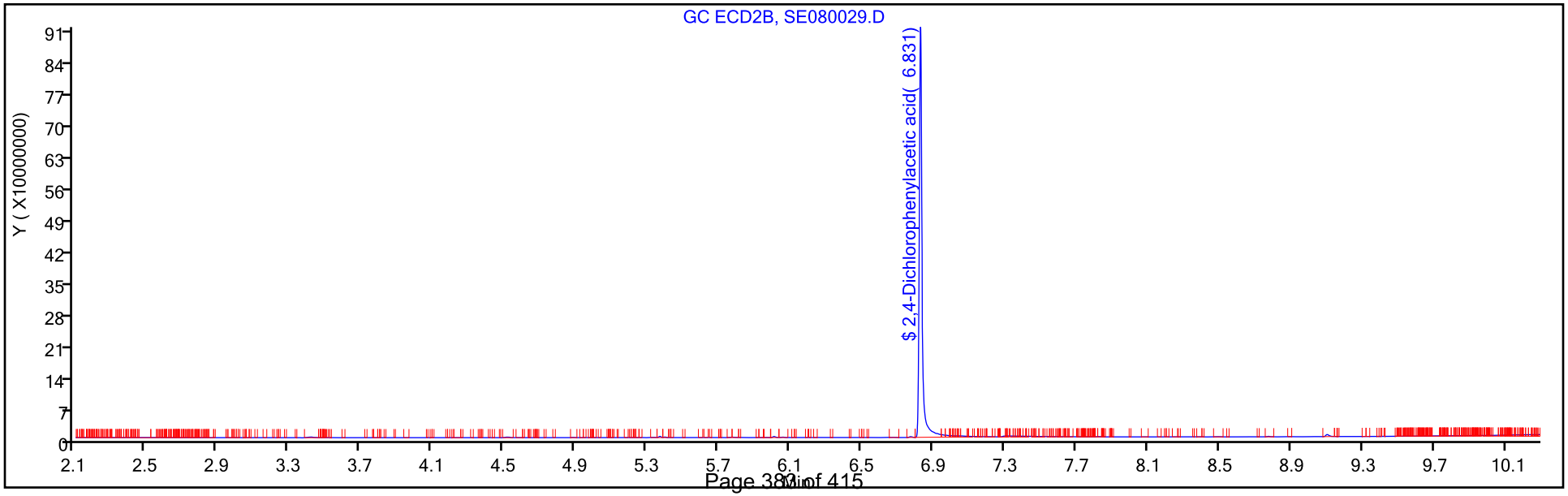
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D

Injection Date:	08-May-2018 21:59:46	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	08-May-2018 21:59:46	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-029				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:21:42		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.8067	80.35

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7069	70.41

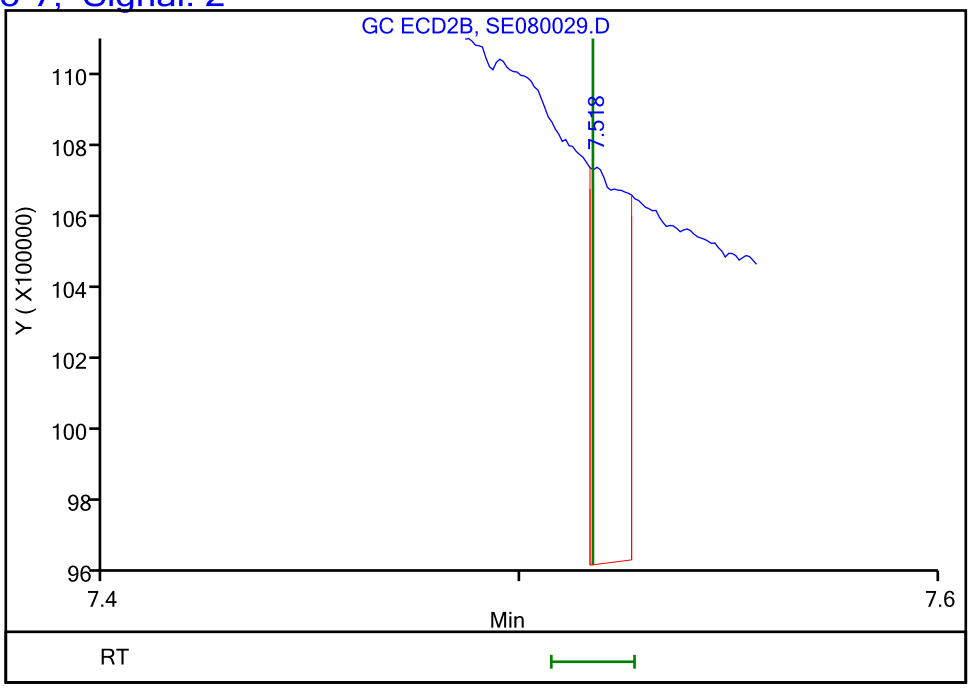
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080029.D
Injection Date: 08-May-2018 21:59:46 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

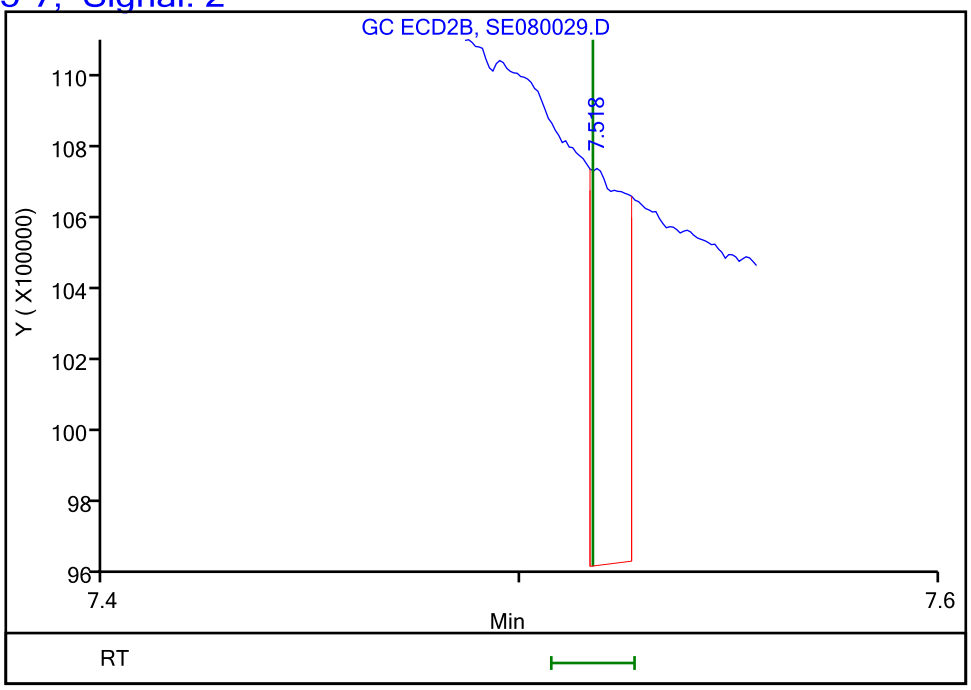
RT: 7.52
Response: 574902
Amount: 0.000361



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 574902
Amount: 0.000361



Reviewer: kellarj, 09-May-2018 09:21:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/39

Matrix: Solid | Lab File ID: SE080039.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/09/2018 01:14

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-XLB ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	0.011	U	0.025	0.011	0.0062
94-75-7	2,4-D	0.012	U M	0.050	0.012	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	75		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	09-May-2018 01:14:39	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:11	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				

First Level Reviewer: kellarj Date: 09-May-2018 09:22:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	159546417	1.00	0.7544	
2	6.831	6.829	0.002	926668182	1.00	0.6583	
						RPD = 13.62	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

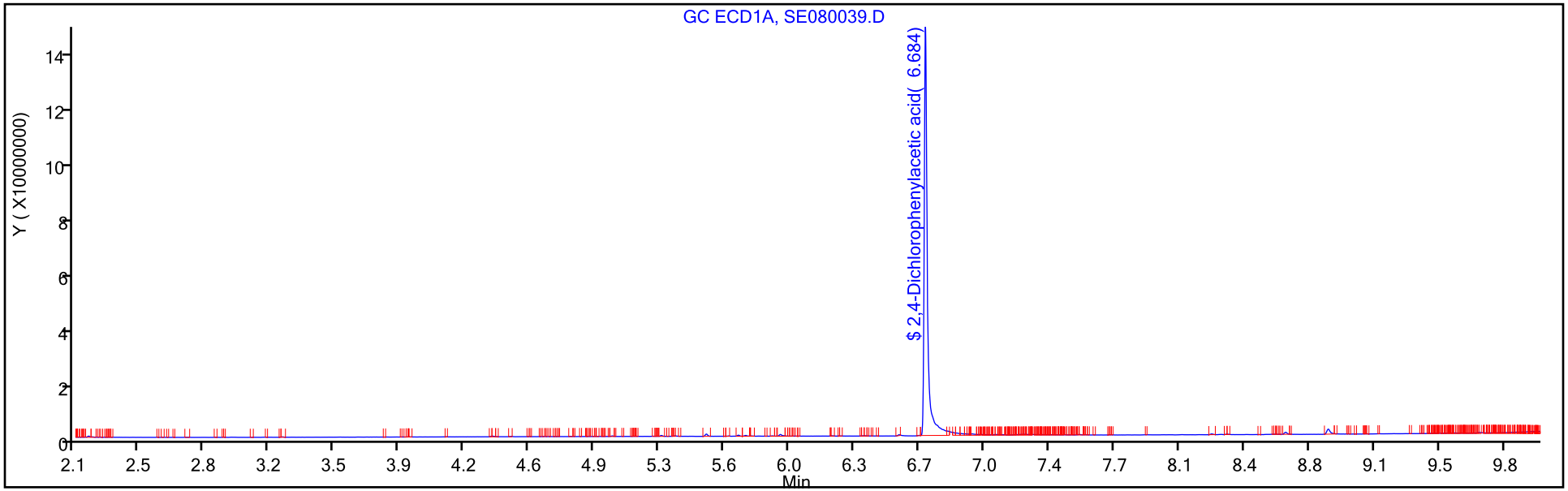
Report Date: 09-May-2018 09:36:41 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

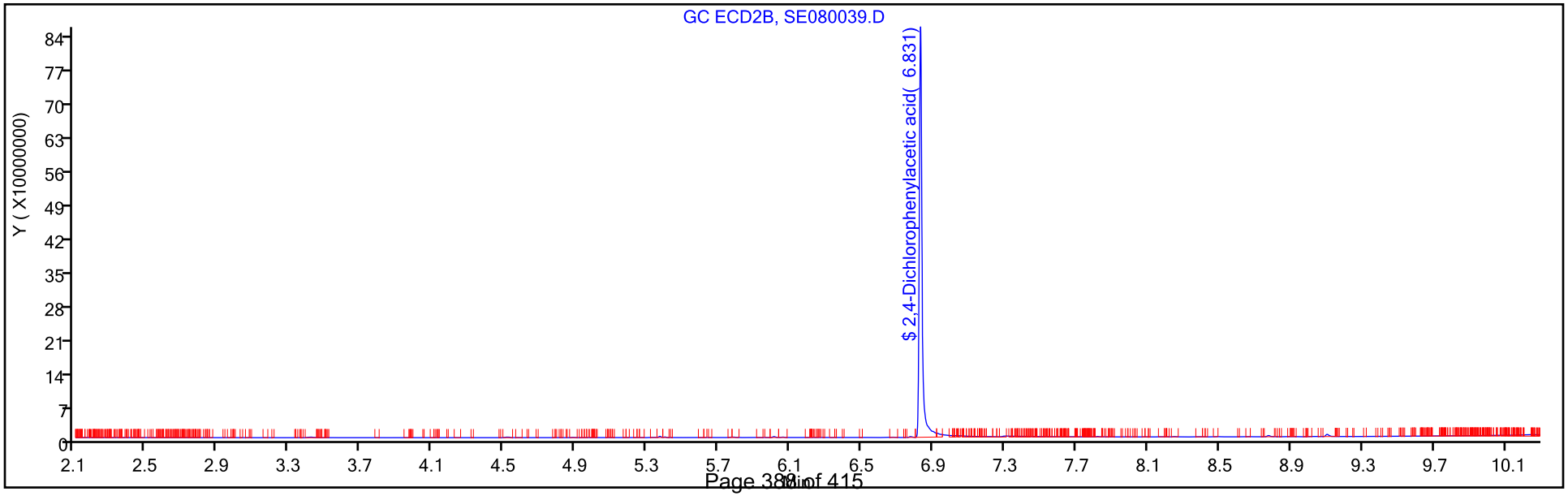
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D

Injection Date:	09-May-2018 01:14:39	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	09-May-2018 01:14:39	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:11	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:22:33		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7544	75.14

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.6583	65.56

User Disabled Compound Report

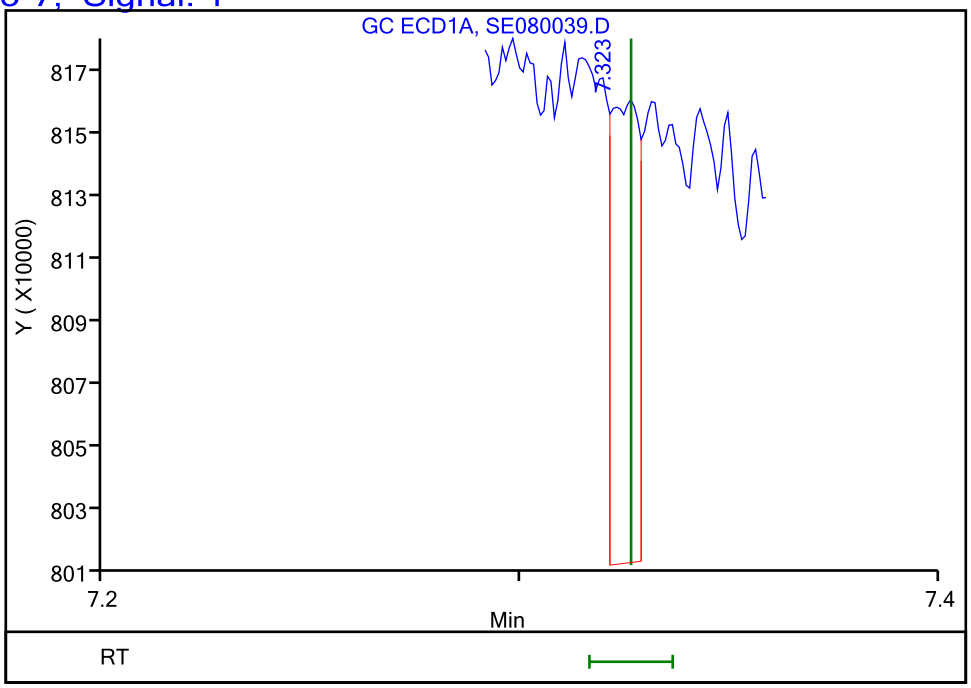
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D
Injection Date: 09-May-2018 01:14:39 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-XLB (0.32 mm) Detector GC ECD1A

11 2,4-D, CAS: 94-75-7, Signal: 1

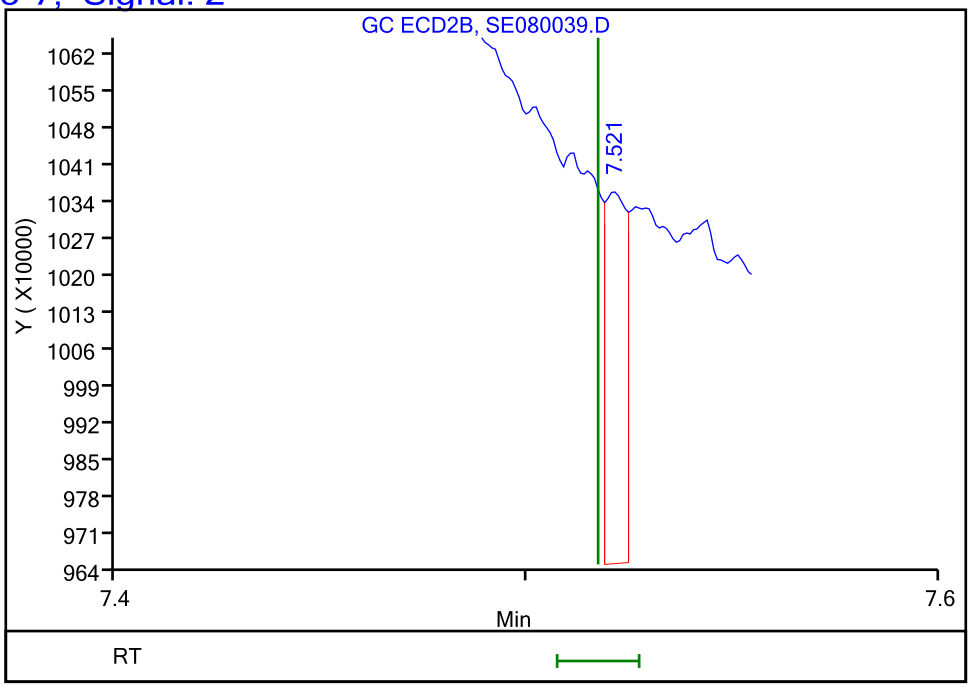
RT: 7.32
Response: 62011
Amount: 0.000205



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 240112
Amount: 0.000151



Reviewer: kellarj, 09-May-2018 09:22:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: | Lab Sample ID: PIBLK 680-523063/39

Matrix: Solid | Lab File ID: SE080039.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 05/09/2018 01:14

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/mL

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	*2,4,5-T*	*0.011*	*U*	*0.025*	0.011	*0.0062*
94-75-7	*2,4-D*	*0.012*	*U M*	*0.050*	0.012	*0.0037*

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	66		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D
Lims ID: piblk
Client ID:
Sample Type: PIBLK
Inject. Date: 09-May-2018 01:14:39 ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-039
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:11 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:22:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 6 2,4-Dichlorophenylacetic acid							
1	6.684	6.683	0.001	159546417	1.00	0.7544	
2	6.831	6.829	0.002	926668182	1.00	0.6583	
						RPD = 13.62	

Reagents:

SG HIBLK_00063 Amount Added: 1.00 Units: mL

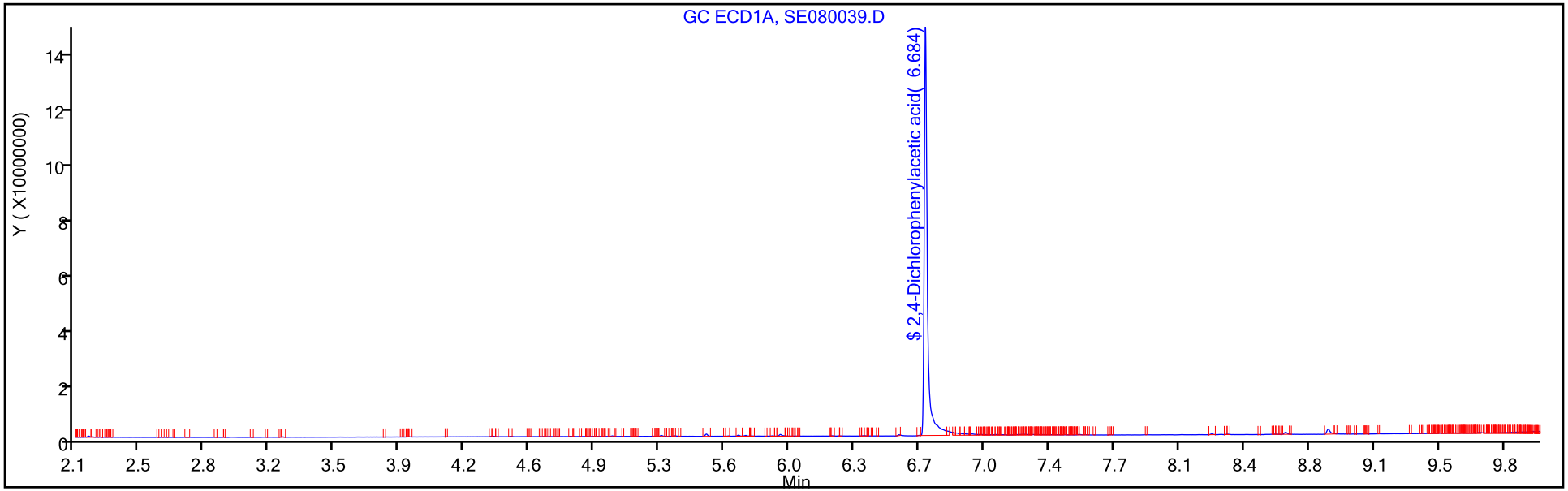
Report Date: 09-May-2018 09:36:42 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

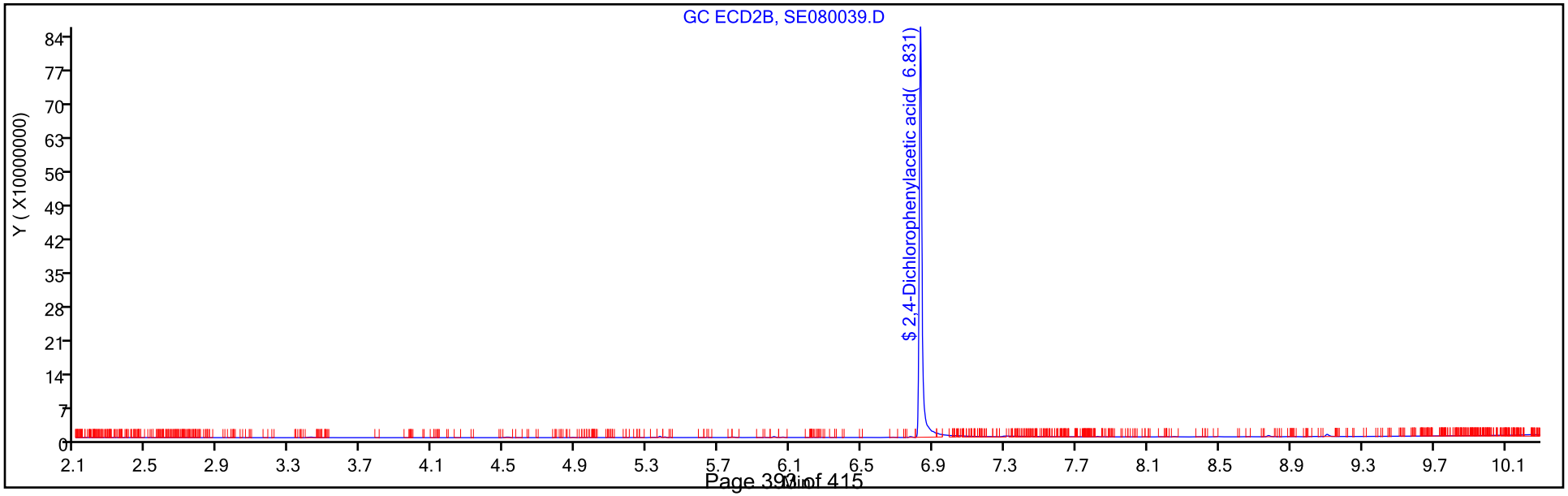
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D

Injection Date:	09-May-2018 01:14:39	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	piblk			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D				
Lims ID:	piblk				
Client ID:					
Sample Type:	PIBLK				
Inject. Date:	09-May-2018 01:14:39	ALS Bottle#:	39	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-039				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:11	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:22:33		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.7544	75.14

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	1.00	0.6583	65.56

User Disabled Compound Report

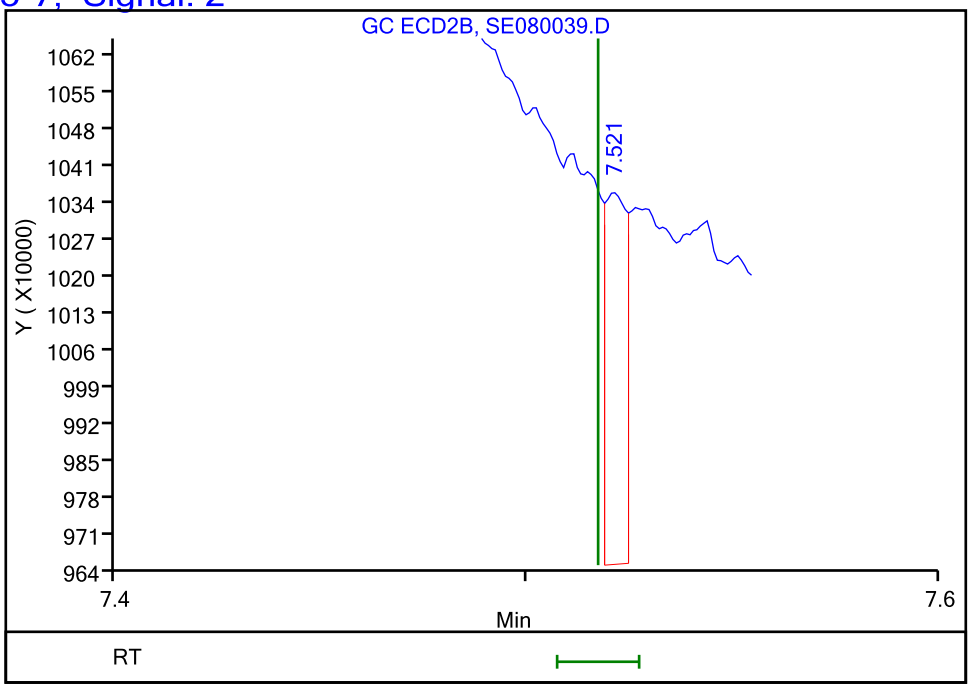
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080039.D
Injection Date: 09-May-2018 01:14:39 Instrument ID: CSGS
Lims ID: piblk
Client ID:
Operator ID: GEM ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: Herbicides_CSGS Limit Group: 8151A - DOD_V5

Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

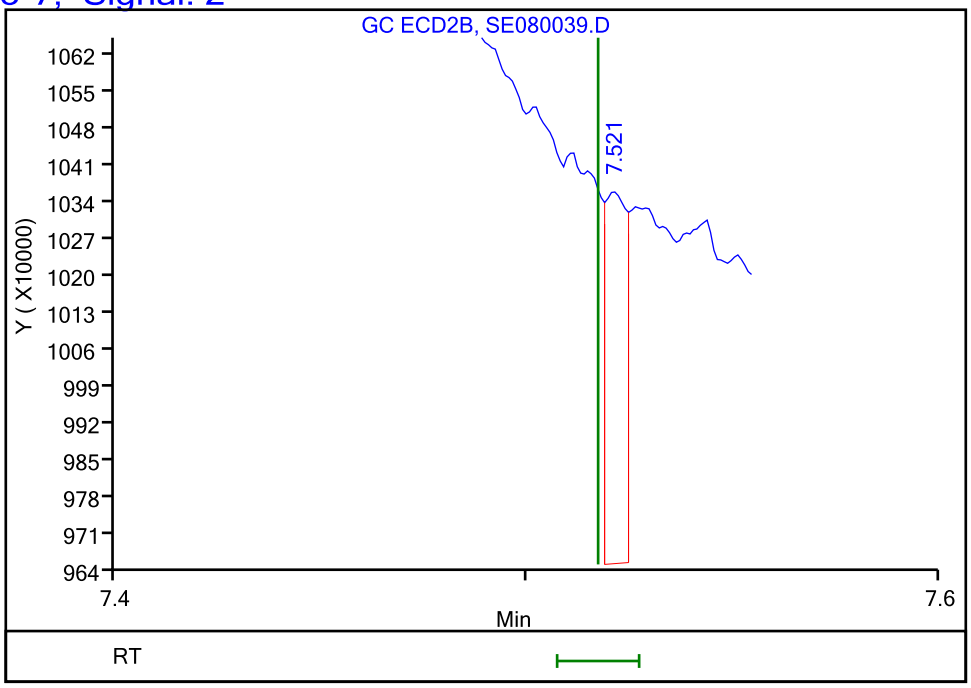
RT: 7.52
Response: 240112
Amount: 0.000151



Column: DB-35MS (0.32 mm) Detector GC ECD2B

11 2,4-D, CAS: 94-75-7, Signal: 2

RT: 7.52
Response: 240112
Amount: 0.000151



Reviewer: kellarj, 09-May-2018 09:22:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-151915-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 680-522541/11-A

Matrix: Solid | Lab File ID: SE080031.D

Analysis Method: 8151A DOD | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/03/2018 11:22

Sample wt/vol: 30.59(g) | Date Analyzed: 05/08/2018 22:38

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: DB-35MS ID: 0.32(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 523063 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
93-76-5	2,4,5-T	8.90		8.1	4.2	2.3
94-75-7	2,4-D	44.5		8.1	8.1	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid (Surr)	54		27-122

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080031.D
Lims ID: LCS 680-522541/11-A
Client ID:
Sample Type: LCS
Inject. Date: 08-May-2018 22:38:36 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 680-0047183-031
Operator ID: GEM Instrument ID: CSGS

Method: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m
Limit Group: 8151A - DOD_V5
Last Update: 09-May-2018 09:36:51 Calib Date: 08-May-2018 14:15:28
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D

Column 1 : DB-XLB (0.32 mm) Det: GC ECD1A
Column 2 : DB-35MS (0.32 mm) Det: GC ECD2B
Process Host: XAWRK037

First Level Reviewer: kellarj Date: 09-May-2018 09:29:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Dalapon							
1	2.579	2.579	0.000	83977915	0.2000	0.1602	
2	2.632	2.632	0.000	193328681	0.2000	0.1199	
						RPD = 28.76	
2 2,6-Dichlorophenol							
1	5.015	5.015	0.000	16997350	NC	NC	
2	5.102	5.102	0.000	88978142	NC	NC	
						RPD = 5.43	
3 2,4,6-Trichlorophenol							
1	5.787	5.786	0.001	178016998	NC	NC	
2	5.777	5.776	0.001	722131967	NC	NC	
						RPD = 5.64	
4 3,5-Dichlorobenzoic acid							M
1	6.123	6.124	-0.001	51178561	0.2000	0.1592	M
2	6.116	6.116	0.000	252259500	0.2000	0.1404	
						RPD = 12.58	
5 4-Nitrophenol							M
1	6.251	6.253	-0.002	27190981	0.2000	0.2941	M
2	6.503	6.505	-0.002	80332197	0.2000	0.2686	
						RPD = 9.05	
$ 6 2,4-Dichlorophenylacetic acid							M
1	6.682	6.683	-0.001	26147601	0.2000	0.1236	M
2	6.828	6.829	-0.001	152742612	0.2000	0.1085	
						RPD = 13.04	
7 Dicamba							M
1	6.720	6.720	0.000	84851579	0.1000	0.0788	M
2	6.911	6.910	0.001	370093579	0.1000	0.0739	
						RPD = 6.42	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 MCPP							M
1	6.867	6.867	0.000	4538433	20.0	9.59	M
2	6.956	6.955	0.001	37406683	20.0	7.70	
						RPD = 21.82	
9 MCPA							M
1	6.994	6.994	0.000	10987097	20.0	11.9	M
2	7.155	7.155	0.000	83804849	20.0	14.3	
						RPD = 18.75	
10 Dichlorprop							M
1	7.181	7.180	0.001	30283619	0.2000	0.1091	M
2	7.298	7.297	0.001	127406227	0.2000	0.0904	
						RPD = 18.81	
11 2,4-D							M
1	7.323	7.326	-0.003	50602303	0.2000	0.1673	M
2	7.515	7.517	-0.002	217039232	0.2000	0.1362	
						RPD = 20.52	
12 Pentachlorophenol							M
1	7.673	7.674	-0.001	197004023	0.0500	0.0366	M
2	7.714	7.714	0.000	675390441	0.0500	0.0359	
						RPD = 1.88	
13 Silvex (2,4,5-TP)							M
1	7.767	7.769	-0.002	54876357	0.0500	0.0292	M
2	7.845	7.846	-0.001	194520506	0.0500	0.0263	
						RPD = 10.42	
14 Chloramben							M
1	7.849	7.855	-0.006	162603579	0.2000	0.1058	M
2	8.158	8.162	-0.004	591965188	0.2000	0.1052	
						RPD = 0.57	
15 2,4,5-T							M
1	7.923	7.929	-0.006	62905916	0.0500	0.0287	M
2	8.079	8.083	-0.004	180973536	0.0500	0.0272	
						RPD = 5.17	
16 2,4-DB							M
1	8.168	8.175	-0.007	14739200	0.2000	0.0977	M
2	8.297	8.302	-0.005	36947342	0.2000	0.0375	
						RPD = 89.12	
17 Dinoseb							M
1	8.222	8.224	-0.002	127464708	0.2000	0.1041	M
2	8.247	8.248	-0.001	409994956	0.2000	0.0952	
						RPD = 8.97	
18 Bentazon							M
1	8.298	8.300	-0.002	43923380	0.2000	0.1527	M
2	8.661	8.662	-0.001	122227001	0.2000	0.1520	
						RPD = 0.47	
19 Picloram							M
1	8.522	8.529	-0.007	391520728	0.2000	0.1538	M
2	9.003	9.005	-0.002	1348730663	0.2000	0.1292	
						RPD = 17.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
20 DCPA							M
1	8.622	8.623	-0.001	535390256	0.2000	0.1626	M
2	8.776	8.775	0.001	1600305347	0.2000	0.1629	
						RPD = 0.23	
21 Acifluorfen							
1	9.663	9.666	-0.003	338049880	0.2000	0.1426	
2	9.791	9.792	-0.001	1028601509	0.2000	0.1415	
						RPD = 0.78	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

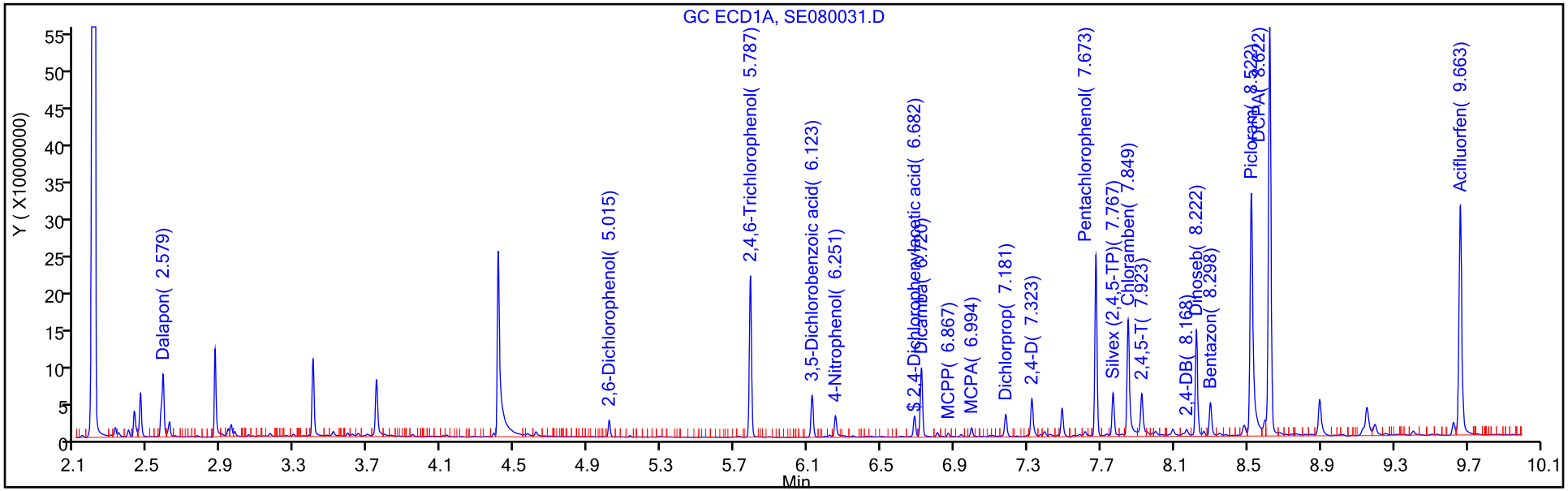
Report Date: 09-May-2018 09:37:22 Chrom Revision: 2.2 07-May-2018 12:30:18

TestAmerica Savannah

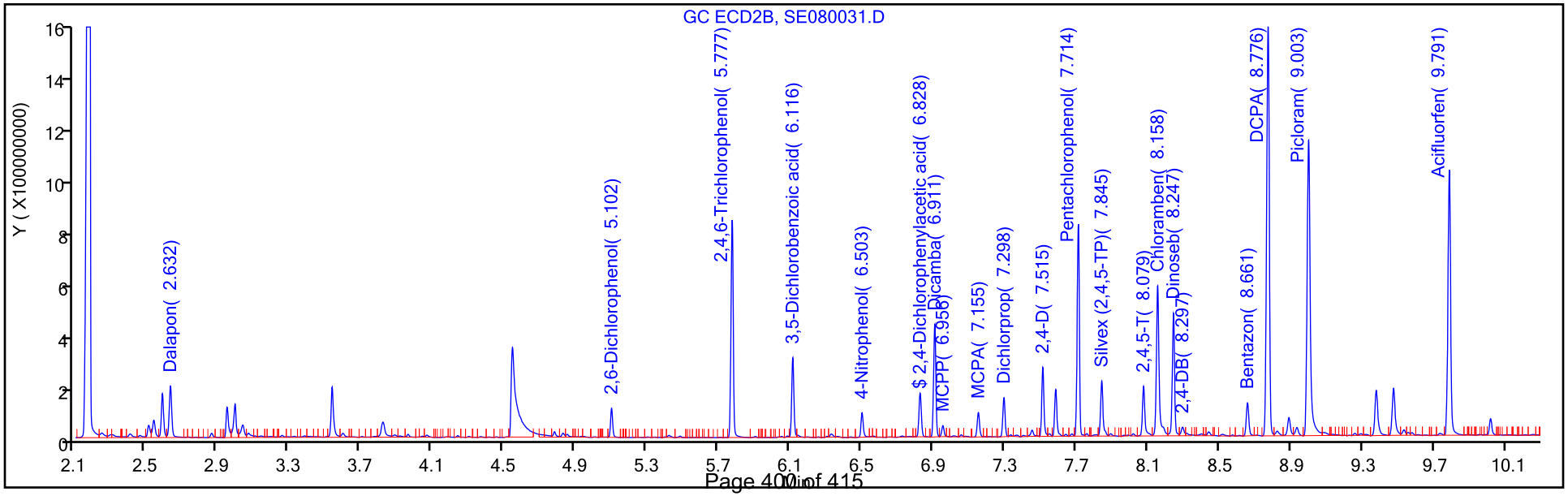
Data File: \\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080031.D

Injection Date:	08-May-2018 22:38:36	Instrument ID:	CSGS	Operator ID:	GEM
Lims ID:	LCS 680-522541/11-A			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	Herbicides_CSGS	Limit Group:	8151A - DOD_V5		

Column: DB-XLB (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: DB-35MS (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Savannah
Recovery Report

Data File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080031.D				
Lims ID:	LCS 680-522541/11-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	08-May-2018 22:38:36	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	680-0047183-031				
Operator ID:	GEM	Instrument ID:	CSGS		
Method:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\Herbicides_CSGS.m				
Limit Group:	8151A - DOD_V5				
Last Update:	09-May-2018 09:36:51	Calib Date:	08-May-2018 14:15:28		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Savannah\ChromData\CSGS\20180508-47183.b\SE080011.D				
Column 1 :	DB-XLB (0.32 mm)		Det: GC ECD1A		
Column 2 :	DB-35MS (0.32 mm)		Det: GC ECD2B		
Process Host:	XAWRK037				
First Level Reviewer: kellarj		Date:	09-May-2018 09:29:46		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1236	61.82

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 6 2,4-Dichlorophenylacetic acid	0.2000	0.1085	54.25

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Start Date: 05/08/2018 11:58

Analysis Batch Number: 523063 End Date: 05/09/2018 08:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 680-523063/4		05/08/2018 11:58	1	SE080004.D	DB-XLB 0.32(mm)
IC 680-523063/4		05/08/2018 11:58	1	SE080004.D	DB-35MS 0.32(mm)
IC 680-523063/5		05/08/2018 12:17	1	SE080005.D	DB-XLB 0.32(mm)
IC 680-523063/5		05/08/2018 12:17	1	SE080005.D	DB-35MS 0.32(mm)
IC 680-523063/6		05/08/2018 12:37	1	SE080006.D	DB-XLB 0.32(mm)
IC 680-523063/6		05/08/2018 12:37	1	SE080006.D	DB-35MS 0.32(mm)
IC 680-523063/7		05/08/2018 12:56	1	SE080007.D	DB-XLB 0.32(mm)
IC 680-523063/7		05/08/2018 12:56	1	SE080007.D	DB-35MS 0.32(mm)
IC 680-523063/8		05/08/2018 13:16	1	SE080008.D	DB-XLB 0.32(mm)
IC 680-523063/8		05/08/2018 13:16	1	SE080008.D	DB-35MS 0.32(mm)
IC 680-523063/9		05/08/2018 13:36	1	SE080009.D	DB-XLB 0.32(mm)
IC 680-523063/9		05/08/2018 13:36	1	SE080009.D	DB-35MS 0.32(mm)
IC 680-523063/10		05/08/2018 13:55	1	SE080010.D	DB-XLB 0.32(mm)
IC 680-523063/10		05/08/2018 13:55	1	SE080010.D	DB-35MS 0.32(mm)
IC 680-523063/11		05/08/2018 14:15	1	SE080011.D	DB-XLB 0.32(mm)
IC 680-523063/11		05/08/2018 14:15	1	SE080011.D	DB-35MS 0.32(mm)
ICV 680-523063/12 CCV		05/08/2018 14:35	1	SE080012.D	DB-XLB 0.32(mm)
ICV 680-523063/12 CCV		05/08/2018 14:35	1	SE080012.D	DB-35MS 0.32(mm)
PIBLK 680-523063/14		05/08/2018 15:14	1		DB-XLB 0.32(mm)
PIBLK 680-523063/14		05/08/2018 15:14	1		DB-35MS 0.32(mm)
CCV 680-523063/28		05/08/2018 21:40	1	SE080028.D	DB-XLB 0.32(mm)
CCV 680-523063/28		05/08/2018 21:40	1	SE080028.D	DB-35MS 0.32(mm)
PIBLK 680-523063/29		05/08/2018 21:59	1	SE080029.D	DB-XLB 0.32(mm)
PIBLK 680-523063/29		05/08/2018 21:59	1	SE080029.D	DB-35MS 0.32(mm)
MB 680-522541/10-A		05/08/2018 22:19	1	SE080030.D	DB-XLB 0.32(mm)
MB 680-522541/10-A		05/08/2018 22:19	1	SE080030.D	DB-35MS 0.32(mm)
LCS 680-522541/11-A		05/08/2018 22:38	1	SE080031.D	DB-XLB 0.32(mm)
LCS 680-522541/11-A		05/08/2018 22:38	1	SE080031.D	DB-35MS 0.32(mm)
680-151915-1		05/08/2018 22:58	1	SE080032.D	DB-XLB 0.32(mm)
680-151915-1		05/08/2018 22:58	1	SE080032.D	DB-35MS 0.32(mm)
680-151915-2		05/08/2018 23:17	1	SE080033.D	DB-XLB 0.32(mm)
680-151915-2		05/08/2018 23:17	1	SE080033.D	DB-35MS 0.32(mm)
680-151915-3		05/08/2018 23:36	1	SE080034.D	DB-XLB 0.32(mm)
680-151915-3		05/08/2018 23:36	1	SE080034.D	DB-35MS 0.32(mm)
ZZZZZ		05/08/2018 23:56	1		DB-XLB 0.32(mm)
ZZZZZ		05/08/2018 23:56	1		DB-35MS 0.32(mm)
ZZZZZ		05/09/2018 00:16	1		DB-XLB 0.32(mm)
ZZZZZ		05/09/2018 00:16	1		DB-35MS 0.32(mm)
ZZZZZ		05/09/2018 00:35	1		DB-XLB 0.32(mm)
ZZZZZ		05/09/2018 00:35	1		DB-35MS 0.32(mm)
CCV 680-523063/38		05/09/2018 00:55	1	SE080038.D	DB-XLB 0.32(mm)
CCV 680-523063/38		05/09/2018 00:55	1	SE080038.D	DB-35MS 0.32(mm)
PIBLK 680-523063/39		05/09/2018 01:14	1	SE080039.D	DB-XLB 0.32(mm)
PIBLK 680-523063/39		05/09/2018 01:14	1	SE080039.D	DB-35MS 0.32(mm)

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: CSGS Start Date: 05/08/2018 11:58

Analysis Batch Number: 523063 End Date: 05/09/2018 08:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 680-523063/48		05/09/2018 04:10	1		DB-XLB 0.32(mm)
CCV 680-523063/48		05/09/2018 04:10	1		DB-35MS 0.32(mm)
PIBLK 680-523063/49		05/09/2018 04:30	1		DB-XLB 0.32(mm)
PIBLK 680-523063/49		05/09/2018 04:30	1		DB-35MS 0.32(mm)
CCV 680-523063/61		05/09/2018 08:24	1		DB-XLB 0.32(mm)
CCV 680-523063/61		05/09/2018 08:24	1		DB-35MS 0.32(mm)
PIBLK 680-523063/62		05/09/2018 08:44	1		DB-XLB 0.32(mm)
PIBLK 680-523063/62		05/09/2018 08:44	1		DB-35MS 0.32(mm)

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Batch Number: 522541 Batch Start Date: 05/03/18 11:22 Batch Analyst: McKinnon, Heather D

Batch Method: 8151A Batch End Date: 05/08/18 14:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	HERBwkLCS 00049	SG HerbwkSurr 00044		
680-151915-A-1	GQ004	8151A, 8151A DOD	T	30.02 g	10 mL		1 mL		
680-151915-A-2	GQ005	8151A, 8151A DOD	T	30.03 g	10 mL		1 mL		
680-151915-A-3	GQ006	8151A, 8151A DOD	T	30.15 g	10 mL		1 mL		
MB 680-522541/10		8151A, 8151A DOD		30.02 g	10 mL		1 mL		
LCS 680-522541/11		8151A, 8151A DOD		30.59 g	10 mL	1 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Batch Number: 522541 Batch Start Date: 05/03/18 11:22 Batch Analyst: McKinnon, Heather D

Batch Method: 8151A Batch End Date: 05/08/18 14:24

Batch Notes	
Balance ID	34
Batch Comment	BOX RC
Carbitol ID	5424057
Concentration End Time	1424
Concentration Start Time	0800
Diazald ID	5424071
Diethyl Ether ID	5389783
Sulfuric Acid Lot Number	5423977
Potassium Hydroxide ID	5370090
MeCL2 ID	5428080
Acidified Methanol ID	5442092
MTBE ID	5424031
N-evap ID	N-EVAP
Na2SO4 ID	5222493
NaOH Lot #	5423983
Ottawa Sand ID	5407071
pH Paper ID	5426313
Pipette ID	GE38/CC40G
Analyst ID - Reagent Drop	VT
Silica Gel ID	4252783
Silicic Acid ID	5183663
Uncorrected Temperature	EXKD2 77.0 EXKD3 77.6 EXKD4 Degrees C
Water Bath ID	EXKD2 EXKD3 EXKD4
Water Bath Temperature	EXKD2 77.0 EXKD3 77.3 EXKD4 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151915-1

SDG No.:

Project: Andersen AFB, Guam - Herbicides

Client Sample ID	Lab Sample ID
GQ004	680-151915-1
GQ005	680-151915-2
GQ006	680-151915-3

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151915-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture LOQ Date: 01/01/2005 13:43

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job Number: 680-151915-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/09/2011 17:03

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.01	
Percent Solids		0.01	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: Moisture

Start Date: 05/07/2018 16:07 End Date: 05/07/2018 16:07

Lab Sample Id	D/F	Type	Time	Analytes																									
				% Sol	Moist																								
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
680-151915-1	1	T	16:07	X	X																								
680-151915-2	1	T	16:07	X	X																								
680-151915-3	1	T	16:07	X	X																								
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										
ZZZZZZ			16:07																										

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-151915-1

SDG No.:

Batch Number: 523856 Batch Start Date: 05/07/18 16:07 Batch Analyst: Chamberlain, Kim A

Batch Method: Moisture Batch End Date: 05/08/18 09:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
680-151915-A-1	GQ004	Moisture	T	1.261 g	6.397 g	6.003 g			
680-151915-A-2	GQ005	Moisture	T	1.265 g	6.535 g	6.067 g			
680-151915-A-3	GQ006	Moisture	T	1.29 g	6.22 g	5.822 g			

Batch Notes	
Balance ID	NA- see documents
Oven ID	Na- See documents

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

MOISTURE CONTENT DETERMINATION

Analytical Batch: 18MCE001 Start Date/Time: 05/07/18 16:07 Temp IN (°C): 105

Instrument ID: 10601202 End Date/Time: 05/08/18 9:37 Temp Out (°C): 105

Sample ID	Weight of Dish (g)	Wet Weight+ Dish (g)	Dry Weight+ Dish (g)	Percent Solids	Percent Moisture	NOTES
680-151865-1 D194-01	1.239	6.426	6.353	98.6%	1.4%	
D194-02 -2	1.016	5.069	5.029	99.0%	1.0%	
D194-03 -3	1.282	6.132	6.077	98.9%	1.1%	
680-151914-1 D202-01	1.021	6.433	6.205	95.8%	4.2%	
D202-02 -2	1.234	6.71	6.582	97.7%	2.3%	
D202-03 -3	1.248	6.31	6.129	96.4%	3.6%	
680-151915-1 D210-01	1.261	6.397	6.003	92.3%	7.7%	
D210-02 -2	1.265	6.535	6.067	91.1%	8.9%	
D210-03 -3	1.29	6.22	5.822	91.9%	8.1%	
E011-01	1.274	8.774	7.713	85.9%	14.1%	
E021-01	1.257	8.331	7.831	92.9%	7.1%	2.5% ✓
E021-01D	1.296	8.334	7.849	93.1%	6.9%	
E021-02	1.295	8.208	7.649	91.9%	8.1%	
E021-03	0.996	8.405	7.918	93.4%	6.6%	
E021-04	1.263	8.151	7.691	93.3%	6.7%	
E021-05	1.413	8.343	7.842	92.8%	7.2%	
E025-01	1.333	8.922	7.876	86.2%	13.8%	
E025-02	1.099	8.255	7.283	86.4%	13.6%	
E025-03	1.269	8.546	7.63	87.4%	12.6%	
E025-04	1.104	8.041	7.146	87.1%	12.9%	
E025-05	1.086	8.271	6.387	73.8%	26.2%	

COMMENT - Comments: Sample D194-02 was limited in amount

Initial Reading by: NCrist

Final Reading by: NCrist

Reviewed by:

Thermometer ID: 660330

Shipping and Receiving Documents

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
1835 W. 205th Street, Torrance, CA 90501
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 18D202
SAMPLE STORAGE

EMAX CONTROL NO. 18D202
PROJECT CODE: AEC1801

CLIENT : AECOM
PROJECT : ANDERSEN AFB, JQ13
COORDINATOR
TEL FAX EMAIL
SEND REPORT TO BRANT LANDERS
COMPANY AECOM
ADDRESS 1001 BISHOP STREET, SUITE 1600
HONOLULU HI 96813
EMAX PM

MATRIX CODE	PRESERVATIVE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sl	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure P	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: 8151A (2,4-D AND 2,4,5-T) — LP 5/1/18

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☐ 7 days
- ☐ 14 days
- ☐ 21 days
- STANDARD

PRESERVATIVE CODE: IC — LP 5/1/18

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	IC	COMMENTS
1	GQ004		4/24/2018	11:40	1	4OZ	JAR	SS		X	EMAX ID 18D202-01 (ISM SAMPLE)
2	GQ005		4/24/2018	11:45	1	4OZ	JAR	SS		X	EMAX ID 18D202-02 (ISM SAMPLE)
3	GQ006		4/24/2018	11:50	1	4OZ	JAR	SS		X	EMAX ID 18D202-03 (ISM SAMPLE)

Instructions :
PLEASE FOLLOW PROJECT DATA REQUIREMENTS FROM AECOM.
Project Number: #60540676

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
	05/02/18	14:35	5/4/18 0900
	LP 5/3/18		5/3/18 3.5C?-A

Cooler # | Temp. (°C) | Sample #s

Subcontract to:
TA Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
Main Phone: **912.354.7858**

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

680-151915 Chain of Custody

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 680-151915-1

Login Number: 151915

List Source: TestAmerica Savannah

List Number: 1

Creator: Chamberlain, Kim A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AECOM
1001 Bishop Street Suite 1600
Honolulu, HI 96813
ATTN: Dr. Brant Landers

June 25, 2018

SUBJECT: Andersen AFB, CTO JQ13, Data Validation

Dear Dr. Landers

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on May 30, 2018. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #42338:

SDG #	Fraction
18D194, 18D202 18D210, 680-151865-1 680-151914-1, 680-151915-1	2,4-D & 2,4,5-T

The data validation was performed under Level C & D validation guidelines. The analyses were validated using the following documents and variances, as applicable to each method:

- Final Work Plan for Limited Investigation into Alleged Herbicide Orange Use at Three Sites, Andersen Air Force Base, Guam; 2018,
- Project Procedures Manual, U.S. Naval Facilities Engineering Command Evironmental Restoration Program, NAVFAC Pacific; DON 2015
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories; Version 5.1; 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; Update IV, February 2007

Please feel free to contact us if you have any questions.

Sincerely,

Stella Cuenco
Project Manager/Senior Chemist

1,468 pages-DL

Attachment 1

90/10 (client select) **EDD**

LDC #42338 (AECOM - Honolulu, HI / Andersen AFB, CTO JQ13)

LDC	SDG#	DATE REC'D	(3) DATE DUE	2,4-D & 2,4,5-T (8151A)																											
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	18D194	05/30/18	06/20/18	0	5																										
A	18D194	05/30/18	06/20/18	0	2																										
B	18D202	05/30/18	06/20/18	0	6																										
B	18D202	05/30/18	06/20/18	0	1																										
C	18D210	05/30/18	06/20/18	0	6																										
C	18D210	05/30/18	06/20/18	0	1																										
D	680-151865-1	05/30/18	06/20/18	0	3																										
D	680-151865-1	05/30/18	06/20/18	0	2																										
E	680-151914-1	05/30/18	06/20/18	0	2																										
E	680-151914-1	05/30/18	06/20/18	0	1																										
F	680-151915-1	05/30/18	06/20/18	0	2																										
F	680-151915-1	05/30/18	06/20/18	0	1																										
Total	T/SC			0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32

Shaded cells indicate Level D validation (all other cells are Level C validation). These sample counts include MS/MSD, and DUPs

L:\AECOM\Andersen\42338ST.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Andersen AFB, CTO JQ13

LDC Report Date: June 18, 2018

Parameters: 2,4-D & 2,4,5-T

Validation Level: Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 18D194

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
GQ001**	18D194-01**	Soil	04/23/18
GQ002	18D194-02	Soil	04/23/18
GQ003**	18D194-03**	Soil	04/23/18
GQ002DUP	18D194-02DUP	Soil	04/23/18
GQ002TRP	18D194-02TRP	Soil	04/23/18
GQ003MS	18D194-03MS	Soil	04/23/18
GQ003MSD	18D194-03MSD	Soil	04/23/18

**Indicates sample underwent Level D validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Work Plan for Limited Investigation into Alleged Herbicide Orange Use at Three Sites, Andersen Air Force Base (AFB), Guam (March 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

2,4-D and 2,4,5-T by Environmental Protection Agency (EPA) SW 846 Method 8151A

All sample results were subjected to Level C data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level D data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were established as required by the method for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicate/Triplicate Sample Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

Triplicate (TRP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Triplicates

Samples GQ001**, GQ002, and GQ003** were identified as field triplicates. No results were detected in any of the samples.

X. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XI. Target Compound Identification

All target compound identifications met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Data Qualification Summary - SDG 18D194

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Laboratory Blank Data Qualification Summary - SDG 18D194

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Field Blank Data Qualification Summary - SDG 18D194

No Sample Data Qualified in this SDG

LDC #: 42338A5 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/5/18
SDG #: 18D194 Level C/D Page: 1 of 1
Laboratory: EMAX Laboratories, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Herbicides (EPA SW 846 Method 8151A) 2,4-D + 2,4,5-T

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A/A	RSD ≤ 20%. ICV ≤ 20%
III.	Continuing calibration	A	CCV ≤ 20%
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates LCR	A/A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	N/D	TR = 1 + 2 + 3
X.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level C validation.
XI.	Target compound identification	A	Not reviewed for Level C validation.
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Level D validation

	Client ID	Lab ID	Matrix	Date
1	GQ001**	18D194-01**	Soil	04/23/18
2	GQ002	18D194-02	Soil	04/23/18
3	GQ003**	18D194-03**	Soil	04/23/18
4	GQ002DUP	18D194-02DUP	Soil	04/23/18
5	GQ002TRP	18D194-02TRP	Soil	04/23/18
6	GQ003MS	18D194-03MS	Soil	04/23/18
7	GQ003MSD	18D194-03MSD	Soil	04/23/18
8				
9				
10				
11				

Notes:

LDC #: 42338A5

VALIDATION FINDINGS CHECKLIST

Reviewer: 2
2nd Reviewer: A

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
III. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			

LDC #: 42338A5

VALIDATION FINDINGS CHECKLIST

Reviewer: 9
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?	∅	✓		TR
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 42338A5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC _____HPLC_____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (94 std)	Recalculated CF (10 std)	Reported Ave CF (initial)	Recalculated Ave CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	4/3/18	2,4-D (ZB-35H)	561	561	566.6	566.6	3.2	3.2
	(GC09)		2,4-D (RTX-CLPEST II)	539	539	553.3	553.3	7.5	7.5
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42338A5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC

Percent difference (%D) = 100 * (N - C)/N

Where: N = __ Initial Calibration Factor or __ Nominal Amount (ng)
C = __ Calibration Factor from Continuing Calibration Standard or __ Calculated Amount (ng)

#	Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported CF/Conc CCV	Recalculated CF/Conc CCV	Reported %D	Recalculated %D
1	QE04002	5/4/18	2,4-D (ZB-35H)	94.0	99.67	99.67	6	6.0
			2,4-D (RTX-CLPEST II)	94.0	98.80	98.8	5	5
2	QE04038	5/5/18	2,4-D (ZB-35H)	94.0	90.94	90.94	3	3.2
			2,4-D (RTX-CLPEST II)	94.0	107.82	107.82	15	14.7
3								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: 9

2nd reviewer: [illegible]

METHOD: ✓ **GC** ___ **HPLC**

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2,4-DCAA	ch1	1000.0	789.293	78.9	78.9	0
✓	✓2	✓	884.143	88.4	88.4	2

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 6/7

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)	50.6	50.6	ND	38.1	37.4	75	75	74	74	2	2
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = | SSCLCS - SSCLCSD | * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS/D

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	50.0	50.0	52.9	46.9	106	106	94	94	12	
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #~~42338/5~~

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: Q
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. ND #6MS, 2,4-D Compound Name _____

Concentration = (41696)(5)(1) / (553.3)(10.01)(0.989)

= 38.1 µg/kg

#	Sample ID	Compound	Reported Concentrations (µg/kg)	Recalculated Results Concentrations ( )	Qualifications
	6	2,4-D	38.1		

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Andersen AFB, CTO JQ13

LDC Report Date: June 18, 2018

Parameters: 2,4-D & 2,4,5-T

Validation Level: Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 18D202

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
GQ004	18D202-01	Soil	04/24/18
GQ005**	18D202-02**	Soil	04/24/18
GQ006	18D202-03	Soil	04/24/18
GQ006MS	18D202-03MS	Soil	04/24/18
GQ006MSD	18D202-03MSD	Soil	04/24/18
GQ006DUP	18D202-03DUP	Soil	04/24/18
GQ006TRP	18D202-03TRP	Soil	04/24/18

**Indicates sample underwent Level D validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Work Plan for Limited Investigation into Alleged Herbicide Orange Use at Three Sites, Andersen Air Force Base (AFB), Guam (March 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

2,4-D and 2,4,5-T by Environmental Protection Agency (EPA) SW 846 Method 8151A

All sample results were subjected to Level C data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level D data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were established as required by the method for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicate/Triplicate Sample Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

Triplicate (TRP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Triplicates

Samples GQ004, GQ005**, and GQ006 were identified as field triplicates. No results were detected in any of the samples.

X. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XI. Target Compound Identification

All target compound identifications met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Data Qualification Summary - SDG 18D202

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Laboratory Blank Data Qualification Summary - SDG 18D202

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Field Blank Data Qualification Summary - SDG 18D202

No Sample Data Qualified in this SDG

LDC #: 42338B5 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/8/18
SDG #: 18D202 Level C/D Page: 1 of 1
Laboratory: EMAX Laboratories, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Herbicides (EPA SW 846 Method 8151A) 2,4-D & 2,4,5-T

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A A	RSD≤20%. ICV≤±20%
III.	Continuing calibration	A	CCV≤±20%
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates LLR	A/A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	ND	TR=4+5+D
X.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level C validation.
XI.	Target compound identification	A	Not reviewed for Level C validation.
XII.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
SW = See worksheet FB = Field blank EB = Equipment blank
** Indicates sample underwent Level D validation

	Client ID	Lab ID	Matrix	Date
1	GQ004	18D202-01	Soil	04/24/18
2	GQ005**	18D202-02**	Soil	04/24/18
3	GQ006	18D202-03	Soil	04/24/18
4	GQ006MS	18D202-03MS	Soil	04/24/18
5	GQ006MSD	18D202-03MSD	Soil	04/24/18
6	GQ006DUP	18D202-03DUP	Soil	04/24/18
7	GQ006TRP	18D202-03TRP	Soil	04/24/18
8				
9				
10				
11				

Notes:

LDC #: 42338B5

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 9
2nd Reviewer: AC

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
III. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix spike/matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			

LDC #: 42338B5

VALIDATION FINDINGS CHECKLIST

Page: 2 of 3
Reviewer: 9
2nd Reviewer: AC

Validation Area	Yes	No	NA	Findings/Comments
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		TR
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 42338B5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC _____ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (94 std)	Recalculated CF (10 std)	Reported Ave CF (initial)	Recalculated Ave CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	4/3/18	2,4-D (ZB-35H)	561	561	566.6	566.6	3.2	3.2
	(GC09)		2,4-D (RTX-CLPEST II)	539	539	553.3	553.3	7.5	7.5
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42338B5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC

Percent difference (%D) = 100 * (N - C)/N

Where: N = __ Initial Calibration Factor or __ Nominal Amount (ng)
C = __ Calibration Factor from Continuing Calibration Standard or __ Calculated Amount (ng)

#	Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported CF/Conc CCV	Recalculated CF/Conc CCV	Reported %D	Recalculated %D
1	QE04002	5/4/18	2,4-D (ZB-35H)	94.0	99.67	99.67	6	6.0
			2,4-D (RTX-CLPEST II)	94.0	98.80	98.8	5	5
2	QE04014	5/4/18	2,4-D (ZB-35H)	94.0	99.43	99.43	6	5.8
			2,4-D (RTX-CLPEST II)	94.0	102.75	102.75	9	9.3
3								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Reviewer: [illegible]

2nd reviewer: [illegible]

Surrogate Results Verification

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 2

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
2,4-DCAA	ch 1	1000.0	626.232	62.6	62.6	0
↓	↓ 2	↓	691.424	69.1	69.1	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

LDC #: 75520B5S

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: 9
2nd Reviewer: K

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 4/5

Compound	Spike Added (µg/L)		Sample Conc. (µg/L)	Spike Sample Concentration (µg/L)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)	51.9	51.9	ND	29.7	27.0	57	57	52	52	10	10
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: [illegible]

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: Q
2nd Reviewer: K

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = | SSCLCS - SSCLCSD | * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS/D

Compound	Spike Added (µg/L)		Spiked Sample Concentration (µg/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	50.0	50.0	52.9	~~48.9~~ 49.9	106	106	94	~~94~~ 98	12	12
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 43338B6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: 9
2nd Reviewer: DK

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. ND #4 MS, 2,4-D Compound Name _____

Concentration = $\frac{(31699.0)(5)(1)}{(1553.3)(10.04)(0.964)}$

= 29.6 µg/kg

#	Sample ID	Compound	Reported Concentrations (ug/kg)	Recalculated Results Concentrations ( )	Qualifications
	4	2,4-D	29.7		

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Andersen AFB, CTO JQ13

LDC Report Date: June 18, 2018

Parameters: 2,4-D & 2,4,5-T

Validation Level: Level C & D

Laboratory: EMAX Laboratories, Inc.

Sample Delivery Group (SDG): 18D210

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
GQ007	18D210-01	Soil	04/25/18
GQ008	18D210-02	Soil	04/25/18
GQ009**	18D210-03**	Soil	04/25/18
GQ009MS	18D210-03MS	Soil	04/25/18
GQ009MSD	18D210-03MSD	Soil	04/25/18
GQ009DUP	18D210-03DUP	Soil	04/25/18
GQ009TRP	18D210-03TRP	Soil	04/25/18

**Indicates sample underwent Level D validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Work Plan for Limited Investigation into Alleged Herbicide Orange Use at Three Sites, Andersen Air Force Base (AFB), Guam (March 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

2,4-D and 2,4,5-T by Environmental Protection Agency (EPA) SW 846 Method 8151A

All sample results were subjected to Standard data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Full data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were established as required by the method for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicate/Triplicate Sample Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

Triplicate (TRP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Field Triplicates

Samples GQ007, GQ008, and GQ009** were identified as field triplicates. No results were detected in any of the samples.

X. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XI. Target Compound Identification

All target compound identifications met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Data Qualification Summary - SDG 18D210

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Laboratory Blank Data Qualification Summary - SDG 18D210

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Field Blank Data Qualification Summary - SDG 18D210

No Sample Data Qualified in this SDG

LDC #: 42338C5 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/8/18
SDG #: 18D210 Level C/D Page: 1 of 1
Laboratory: EMAX Laboratories, Inc. Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Herbicides (EPA SW 846 Method 8151A) 2,4-D & 2,4,5-T

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A/A	RSD ≤ 20%. ICV ≤ 20%
III.	Continuing calibration	A	CCV ≤ 20%
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates /LR	A/A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	ND	TR = 1 1+2+3
X.	Compound quantitation RL/LOQ/LODs	A	Not reviewed for Level C validation.
XI.	Target compound identification	A	Not reviewed for Level C validation.
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Level D validation

	Client ID	Lab ID	Matrix	Date
1	GQ007	18D210-01	Soil	04/25/18
2	GQ008	18D210-02	Soil	04/25/18
3	GQ009**	18D210-03**	Soil	04/25/18
4	GQ009MS	18D210-03MS	Soil	04/25/18
5	GQ009MSD	18D210-03MSD	Soil	04/25/18
6	GQ009DUP	18D210-03DUP	Soil	04/25/18
7	GQ009TRP	18D210-03TRP	Soil	04/25/18
8				
9				
10				
11				

Notes:

LDC #: 42338C5

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: [illegible]
2nd Reviewer: [illegible]

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
III. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) < 20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			

LDC #: 43338C5

VALIDATION FINDINGS CHECKLIST

Reviewer:
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		FR
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 42338C5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PG
2nd Reviewer: AC

METHOD: GC _____ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (94 std)	Recalculated CF (10 std)	Reported Ave CF (initial)	Recalculated Ave CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	4/3/18	2,4-D (ZB-35H)	561	561	566.6	566.6	3.2	3.2
	(GC09)		2,4-D (RTX-CLPEST II)	539	539	553.3	553.3	7.5	7.5
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42338C5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC

Percent difference (%D) = 100 * (N - C)/N

Where: N = __ Initial Calibration Factor or __ Nominal Amount (ng)
C = __ Calibration Factor from Continuing Calibration Standard or __ Calculated Amount (ng)

#	Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported CF/Conc CCV	Recalculated CF/Conc CCV	Reported %D	Recalculated %D
1	QE04002	5/4/18	2,4-D (ZB-35H)	94.0	99.67	99.67	6	6.0
			2,4-D (RTX-CLPEST II)	94.0	98.80	98.8	5	5
2	QE04014	5/4/18	2,4-D (ZB-35H)	94.0	99.43	99.43	6	5.8
			2,4-D (RTX-CLPEST II)	94.0	102.75	102.75	9	9.3
3								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: Q
2nd reviewer: A

METHOD: √ **GC** __ **HPLC**

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 3

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
2,4-DCAA	ch 1	1000.0	795.99	79.6	79.6	
↓	↓ 2	↓	788.40	78.8	78.8	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

LDC #: 42338C5

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = I SSCLCS - SSCLCSD I * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS/D

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	50.0	50.0	52.9	46.9	106	106	94	94	12	12
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #42338C8

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: 9
2nd Reviewer: AK

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 4/5

Compound	Spike Added (ug/L)		Sample Conc. (ug/L)	Spike Sample Concentration (ug/L)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)	54.4	54.4	ND	48.1	38.0	88	88	70	70	23	23
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42338c5

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: Q
2nd Reviewer: AK

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 3 Compound Name ND
#4(MS): 2,4-D

Concentration = (5009=)(5)(1) / (566.59)(10.03)(0.919)

= 48.0 µg/kg

#	Sample ID	Compound	Reported Concentrations (MDL Est)	Recalculated Results Concentrations ( )	Qualifications
	4(MS)	2,4-D	48.1		

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Andersen AFB, CTO JQ13

LDC Report Date: June 18, 2018

Parameters: 2,4-D & 2,4,5-T

Validation Level: Level C & D

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): 680-151865-1

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
GQ001**	680-151865-1**	Soil	04/23/18
GQ002	680-151865-2	Soil	04/23/18
GQ003**	680-151865-3**	Soil	04/23/18
GQ003MS	680-151865-3MS	Soil	04/23/18
GQ003MSD	680-151865-3MSD	Soil	04/23/18

**Indicates sample underwent Level D validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Work Plan for Limited Investigation into Alleged Herbicide Orange Use at Three Sites, Andersen Air Force Base (AFB), Guam (March 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

2,4-D and 2,4,5-T by Environmental Protection Agency (EPA) SW 846 Method 8151A

All sample results were subjected to Standard data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Full data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were established as required by the method for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
GQ001**	DB-35MS	2,4-Dichlorophenyl acetic acid	23 (27-122)	All compounds	J (all detects) UJ (all non-detects)	P

Sample	Column	Surrogate	%R (Limits)	Affected Compound	Flag	A or P
GQ002	DB-35MS	2,4-Dichlorophenyl acetic acid	15 (27-122)	All compounds	UJ (all non-detects)	P

VII. Matrix Spike/Matrix Spike Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
GQ003MS/MSD (GQ003**)	2,4,5-T 2,4-D	-236 (31-138) -668 (31-138)	-139 (31-138) -502 (31-138)	J (all detects) J (all detects)	A
GQ003MS/MSD (5X*) (GQ003** (5X*))	2,4,5-T 2,4-D	-130 (28-144) -514 (28-144)	-74.4 (28-144) -354 (28-144)	J (all detects) J (all detects)	A

*Sample GQ003, GQ003MS and GQ003MSD were analyzed at a 5X dilution because 2,4-D exceeded the calibration range in the undiluted analysis of GQ003.

Although the 2,4,5-T and 2,4-D results for parent sample GQ003 were greater than 2X the spike concentration and GQ003, GQ003MS and GQ003MSD were analyzed at 5X dilution for 2,4-D, using professional judgment, the associated results were qualified as estimated due to excessively high negative MS/MSD %Rs.

High negative MS/MSD %Rs indicate that the sample aliquots used to prepare GQ003, GQ003MS and GQ003MSD may not be from the same sample. Additionally, high negative %Rs at 5X dilution indicate that 2,4-D did not exceed the calibration range in GQ003MS and GQ003MSD which is not consistent with the reported results for 2,4-D in the parent sample GQ003.

Relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	RPD (Limits)	Flag	A or P
GQ003MS/MSD (GQ003**)	2,4,5-T 2,4-D	94 (≤30) 105 (≤30)	J (all detects) J (all detects)	A
GQ003MS/MSD (5X) (GQ003** (5X))	2,4,5-D	126 (≤30)	J (all detects)	A

Although the 2,4,5-T and 2,4-D results for parent sample GQ003 were greater than 2X the spike concentration and GQ003, GQ003MS and GQ003MSD were analyzed at 5X dilution for 2,4-D, using professional judgment, the associated results were qualified as estimated due to excessively high MS/MSD RPDs.

High MS/MSD RPDs may indicate a high degree of heterogeneity in the sample matrix, however, in this case, based on the excessively high negative MS/MSD %Rs, imprecision may be due to either improper sample handling or inconsistent sample preparation.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Triplicates

Samples GQ001**, GQ002, and GQ003** were identified as field triplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)			%RSD (Limits)	RPD (Limits)	Flag	A or P
	GQ001**	GQ002	GQ003** (5X)				
2,4-D	10	8.4U	380	-	190 (≤100)	J (all detects)	A

Compound	Concentration (ug/Kg)			%RSD (Limits)	RPD (Limits)	Flag	A or P
	GQ001**	GQ002	GQ003**				
2,4,5-T	4.4U	4.3U	49J	Not calculable	-	J (all detects)	A

The laboratory indicated that the presence of 2,4-D in the project samples is likely a result of glassware contamination. The laboratory received 10-15 samples that came in around the same time that required 10,000 to 100,000 fold dilutions for 2,4-D.

Chromatograms were reviewed by the validator to verify the reason for the imprecision. The chromatogram for sample GQ003 does not match the chromatograms for samples GQ001 and GQ002. Additionally, matrix interference was apparent for samples GQ001 and GQ002 but not for sample GQ003.

Although sample data are not qualified on the basis of field triplicate imprecision per NAVFAC SOP, using professional judgment, associated results were qualified as estimated due to possible 2,4-D contamination and the uncertainty that GQ003 may not be a field sample based on the field triplicate results and the negative MS/MSD %Rs.

X. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level D validation.

The laboratory detection limit (DL) and limit of detection (LOD) were less than or equal to the QAPP DL and LOD with the following exceptions:

Sample	Compound	Laboratory DL	QAPP DL	Laboratory LOD	QAPP LOD
GQ001** GQ003**	2,4-D	5.0 ug/Kg	2.5 ug/Kg	8.3 ug/Kg	5.0 ug/Kg

Raw data were not reviewed for Level C validation.

XI. Target Compound Identification

All target compound identifications met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to surrogate %R, MS/MSD %R and RPD, and field triplicate imprecision, data were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Data Qualification Summary - SDG 680-151865-1

Sample	Compound	Flag	A or P	Reason (Code)
GQ001** GQ002	All compounds	J (all detects) UJ (all non-detects)	P	Surrogates (%R) (S)
GQ003**	2,4,5-T	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)(E)
GQ003** (5X)	2,4-D	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)(E)
GQ001** GQ003** (5X)	2,4-D	J (all detects)	A	Field triplicates (RPD) (V)
GQ003**	2,4,5-T	J (all detects)	A	Field triplicates (imprecision) (V)

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Laboratory Blank Data Qualification Summary - SDG 680-151865-1

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Field Blank Data Qualification Summary - SDG 680-151865-1

No Sample Data Qualified in this SDG

LDC #: 42338D5 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/8/18
SDG #: 680-151865-1 Level C/D Page: 1 of 1
Laboratory: Test America, Inc Reviewer: Q
2nd Reviewer: R

METHOD: GC Herbicides (EPA SW 846 Method 8151A) 2,4-D & 2,4,5-T

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A A	RSD ≤ 20%. ICV ≤ 20%
III.	Continuing calibration	A	CCV ≤ 20%
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	FR = 1+2+3
X.	Compound quantitation RL/LOQ/LODs	SW	Not reviewed for Level C validation.
XI.	Target compound identification	A	Not reviewed for Level C validation.
XII.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
SW = See worksheet FB = Field blank EB = Equipment blank
** Indicates sample underwent Level D validation

	Client ID	Lab ID	Matrix	Date
1	GQ001**	680-151865-1**	Soil	04/23/18
2	GQ002	680-151865-2	Soil	04/23/18
3	GQ003**	680-151865-3**	Soil	04/23/18
4	GQ003MS	680-151865-3MS	Soil	04/23/18
5	GQ003MSD	680-151865-3MSD	Soil	04/23/18
6				
7				
8				
9				
10				
11				

Notes:

LDC #: 42338D5

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: Q
2nd Reviewer: JC

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
III. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate Spikes				
Were all surrogate percent recovery (%R) within the QC limits?		✓		
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?		✓		
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix Spike/Matrix Spike Duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		

LDC #: 42338 05

VALIDATION FINDINGS CHECKLIST

Reviewer: 9
2nd Reviewer: AC

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?	~~✓~~	✓		TR
Were target compounds detected in the field duplicates?	~~✓~~		✓	
X. Compound quantitation				
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 42338D5

VALIDATION FINDINGS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: 9
2nd Reviewer: N

METHOD: ✓ GC __ HPLC

Are surrogates required by the method? Yes___ or No___.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Y~~ N N/A Were surrogates spiked into all samples and blanks?

Y ~~N~~ N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	1*	DB-35MS	8	23 (27-122)	J/UJ/P (dets+ND)
				( )	
	2*		8	15 ( )	(ND)
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
	* ~~Insufficient sample to re-extraction.~~			( )	
				( )	
				( )	
	* Lab indicated that there was insufficient sample to perform a re-extraction.			( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	1,2-Dinitrobenzene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	2,4-Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #42338D5

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: Q
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
(Y) N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y (N) N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	4/5 (1x)	2,4,5-T	-236 (31-138)	-139 (31-138)	( )	3 (dets)	↓UN/A(Q)
		↓	( )	( )	94 (≤30)		~~dets~~/AE)
	(5x)	2,4-D	~~SOR out~~	( )	( )		No dil
		↓	-514 (29-144)	-354 (29-144)	( )		>4x SA
			( )	( )	36 (≤30)		↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
		* GR003MS results (below) spike added and			( )		txf
		were consistent with LCS results			( )		
		** 2,4-D did not exceed calib range in			( )		
		GR003MS/MSD (1x) but did for GR003 (1x)			( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC#: 42338D5

VALIDATION FINDINGS WORKSHEET
Field Triplicates

Page: 1 of 1
Reviewer: a
2nd Reviewer: [illegible]

METHOD: Herbicides (EPA SW 846 Method 8151A)

Y N NA Were field triplicates sets identified in this SDG?
Y N NA Were target analytes detected in the field triplicate sets?

Analyte	Concentration (ug/Kg)			RSD (≤ 35)	RPD (≤ 100)
	1	2	3		
2,4-D (5x*)	10	8.4U	380 *		190
2,4,5-T (1x)	4.4U	4.3U	49J	NC	

V:\FIELD DUPLICATES\Field Triplicates\2018\42338D5_AECOM.wpd

* GQ003 also does not match GQ001 & GQ002 (Ext)
Lab indicated likely result of glassware contamination. 10-15 samples rec'd at same time that rq'd 10,000-100000 dilution for 2,4-D

LDC #: 42338D5

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and RLs

Reviewer: 9
2nd Reviewer: K

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Compound	Findings Lab DL/LOD > QAPP DL/LOD	Qualifications
		ALL	2,4-D	5.0/8.3 ug/kg > 2.5/5.0 ug/kg	Text
		1, 3	All dets RPD = 40%		
			#1 2,4-D = 30.3%		
			#2: 2,4-D = 2.4%		
			2,4,5-T = 2.0%		

LDC #: 42338D5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC _____HPLC_____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (0.25 std)	Recalculated CF (0.25 std)	Reported Ave CF (initial)	Recalculated Ave CF (intial)	Reported %RSD	Recalculated %RSD
1	IACL	5/9/18	2,4-D (DB-35MS)	1445576004	1445576004	1459816204	1459816204	6.0	6.0
	(CSGS)		2,4-D (DB-XLB)	310716568	310716568	315815394	315615394	2.6	2.6
2	IACL	5/11/18	2,4-D (DB-35MS)	1317914556	1317914556	1258856811	1258856811	12.8	12.8
	(CSGS)		2,4-D (DB-XLB)	268581372	268581372	273146870	273146870	10.7	10.7
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42338D5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC

Percent difference (%D) = 100 * (N - C)/N

Where: N = __ Initial Calibration Factor or __ Nominal Amount (ng)
C = __ Calibration Factor from Continuing Calibration Standard or __ Calculated Amount (ng)

#	Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported CF/Conc CCV	Recalculated CF/Conc CCV	Reported %D	Recalculated %D
1	SE090032	5/10/18	2,4-D (DB-35MS)	1459816204	1478123040	1478123040	1.3	1.3
			2,4-D (DB-XLB)	315615394	320574760	320574760	1.6	1.6
2	SE110030	5/11/18	2,4-D (DB-35MS)	1258856811	1079069800	1079069800	14.3	14.3
			2,4-D (DB-XLB)	273146870	259613330	259613330	5.0	5.0
3								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: /

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2,4-D	DB-35MS	0.2000	0.0468	23	23	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 42200V5

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: 9
2nd Reviewer: AC

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 4/5

Compound	Spike Added (MS)	Spike Added (MSD)	Sample Conc.	Spike Sample Concentration (MS)	Spike Sample Concentration (MSD)	Matrix spike Percent Recovery Reported	Matrix spike Percent Recovery Recalc.	Matrix Spike Duplicate Percent Recovery Reported	Matrix Spike Duplicate Percent Recovery Recalc.	MS/MSD RPD Reported	MS/MSD RPD Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)	167.3	4.3	380	31.5	139	-54	-518	-354	-358	126	126
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #~~423805~~

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: AC

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = | SSCLCS - SSCLCSD | * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 680-522658

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	64.8	NA	46.3	NA	T2	T2				
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 43385S

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: 9
2nd Reviewer: K

METHOD: √ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 3 Compound Name 2,4-D

Concentration = $\frac{(28169999)(10,000)(5)}{(1598163044)(30.05)(0.989)}$
$(12588628 11)$
$= 37.11$ MS/kg

#	Sample ID	Compound	Reported Concentrations (ug/kg)	Recalculated Results Concentrations (ug/kg)	Qualifications
	1	2,4-D	10	10	
	3	2,4-D	380	37.11	
		2,4,5-T	49	48.9	

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Andersen AFB, CTO JQ13

LDC Report Date: June 18, 2018

Parameters: 2,4-D & 2,4,5-T

Validation Level: Level C & D

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): 680-151914-1

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
GQ007	680-151914-1	Soil	04/25/18
GQ008	680-151914-2	Soil	04/25/18
GQ009**	680-151914-3**	Soil	04/25/18

**Indicates sample underwent Level D validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Work Plan for Limited Investigation into Alleged Herbicide Orange Use at Three Sites, Andersen Air Force Base (AFB), Guam (March 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

2,4-D and 2,4,5-T by Environmental Protection Agency (EPA) SW 846 Method 8151A

All sample results were subjected to Standard data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Full data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were established as required by the method for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicate

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Triplicates

Samples GQ007, GQ008, and GQ009** were identified as field triplicates. No results were detected in any of the samples.

X. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level D validation.

The laboratory detection limit (DL) and limit of detection (LOD) were less than or equal to the QAPP DL and LOD with the following exceptions:

Sample	Compound	Laboratory DL	QAPP DL	Laboratory LOD	QAPP LOD
All samples in SDG 680-151914-1	2,4-D	5.0 ug/Kg	2.5 ug/Kg	8.3 ug/Kg	5.0 ug/Kg

Raw data were not reviewed for Level C validation.

XI. Target Compound Identification

All target compound identifications met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Data Qualification Summary - SDG 680-151914-1

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Laboratory Blank Data Qualification Summary - SDG 680-151914-1

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Field Blank Data Qualification Summary - SDG 680-151914-1

No Sample Data Qualified in this SDG

LDC #: 42338E5

SDG #: 680-151914-1

Laboratory: Test America, Inc

VALIDATION COMPLETENESS WORKSHEET

Level C/D

Date: 6/8/18

Page: 1 of 1

Reviewer: 1

2nd Reviewer: 1

METHOD: GC Herbicides (EPA SW 846 Method 8151A) 2,4-D + 2,4,5-T

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A/A	RSD ≤ 20%, ICV ≤ 20%
III.	Continuing calibration	A	CCV ≤ 20%
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	ND	FR = 0/1+2+3
X.	Compound quantitation RL/LOQ/LODs	SW	Not reviewed for Level C validation.
XI.	Target compound identification	A	Not reviewed for Level C validation.
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Level D validation

	Client ID	Lab ID	Matrix	Date
1	GQ007	680-151914-1	Soil	04/25/18
2	GQ008	680-151914-2	Soil	04/25/18
3	GQ009**	680-151914-3**	Soil	04/25/18
4				
5				
6				
7				
8				
9				
10				
11				

Notes:

LDC #: 423385

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 2
2nd Reviewer: 1

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
III. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix spikes				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		✓		
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

LDC #: 42338E5

VALIDATION FINDINGS CHECKLIST

Reviewer: A
2nd Reviewer: M

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		TR
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 42338E5

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and RLs

Reviewer: 9
2nd Reviewer: K

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Compound	Findings Lab DL/LOD > QAPP DL/LOD	Qualifications
		ALL	2,4-D	5.0/8.3 ug/kg > 2.5/5.0 ug/kg	Text

LDC #: 42338E5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC _____ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (0.25 std)	Recalculated CF (0.25 std)	Reported Ave CF (initial)	Recalculated Ave CF (intial)	Reported %RSD	Recalculated %RSD
1	IACL	5/8/18	2,4-D (DB-35MS)	1676989976	1676989976	1593535987	1593535987	12.0	12.0
	(CSGS)		2,4-D (DB-XLB)	325959236	325959236	302399622	302399622	14.4	14.4
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42338E5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC

Percent difference (%D) = 100 * (N - C)/N

Where: N = __ Initial Calibration Factor or __ Nominal Amount (ng)
C = __ Calibration Factor from Continuing Calibration Standard or __ Calculated Amount (ng)

#	Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported CF/Conc CCV	Recalculated CF/Conc CCV	Reported %D	Recalculated %D
1	SE080028	5/8/18	2,4-D (DB-35MS)	1593535987	1336273560	1336273560	16.1	16.1
			2,4-D (DB-XLB)	302399622	279399860	279399860	7.6	7.6
2								
3								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 3

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2,4-DCAA	DB-35MS	0.200	0.2046	102	102	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #42330E5

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: A

METHOD: √ GC __ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = | SSCLCS - SSCLCSD | * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 680-52254 /

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	65.4	NA	44.5	NA	68	68				
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #~~423825~~

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: Q
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #3 Compound Name ND
LCS 680-~~532~~541, 2,4-D

Concentration = $\frac{(217039232)(10)(1)(1000)}{(1593535987)(30.59)}$

= 44.5 ug/kg

#	Sample ID	Compound	Reported Concentrations (~~MRL~~)	Recalculated Results Concentrations ( )	Qualifications
	LCS	2,4-D	44.5		

Comments: _____

SAMPCAL.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Andersen AFB, CTO JQ13

LDC Report Date: June 18, 2018

Parameters: 2,4-D & 2,4,5-T

Validation Level: Level C & D

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): 680-151915-1

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
GQ004	680-151915-1	Soil	04/24/18
GQ005**	680-151915-2**	Soil	04/24/18
GQ006	680-151915-3	Soil	04/24/18

**Indicates sample underwent Level D validation

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Work Plan for Limited Investigation into Alleged Herbicide Orange Use at Three Sites, Andersen Air Force Base (AFB), Guam (March 2018), the Project Procedures Manual, U.S. Naval Facilities Engineering Command (NAVFAC) Environmental Restoration (ER) Program, NAVFAC Pacific (DON 2015), and the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

2,4-D and 2,4,5-T by Environmental Protection Agency (EPA) SW 846 Method 8151A

All sample results were subjected to Standard data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Full data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Code Reference

H Holding times were exceeded.

S Surrogate recovery was outside QC limits.

C Calibration %RSD, r, r^2 or %D were noncompliant.

R Calibration RRF was <0.05.

B Presumed contamination from preparation (method blank).

L Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits.

Q MS/MSD recovery was poor.

E MS/MSD or Duplicate RPD was high.

I Internal standard performance was unsatisfactory.

M Instrument Performance Check (BFB or DFTPP) was noncompliant.

T Presumed contamination from trip blank.

F Presumed contamination from FB or ER.

D The analysis with this flag should not be used because another more technically sound analysis is available.

P Instrument performance for pesticides was poor.

V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were established as required by the method for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

III. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicate

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Triplicates

Samples GQ004, GQ005**, and GQ006 were identified as field triplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)			%RSD (Limits)	RPD (Limits)
	GQ004	GQ005**	GQ006		
2,4-D	9.0U	8.3J	9.0U	Not calculable	-

The laboratory indicated that the presence of 2,4-D in the project sample is likely a result of glassware contamination. The laboratory received 10-15 samples that came in around the same time that required 10,000 to 100,000 fold dilutions for 2,4-D.

X. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level D validation.

The laboratory detection limit (DL) and limit of detection (LOD) were less than or equal to the QAPP DL and LOD with the following exceptions:

Sample	Compound	Laboratory DL	QAPP DL	Laboratory LOD	QAPP LOD
All samples in SDG 680-151915-1	2,4-D	5.0 ug/Kg	2.5 ug/Kg	8.3 ug/Kg	5.0 ug/Kg

Raw data were not reviewed for Level C validation.

XI. Target Compound Identification

All target compound identifications met validation criteria for samples which underwent Level D validation. Raw data were not reviewed for Level C validation.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Data Qualification Summary - SDG 680-151915-1

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Laboratory Blank Data Qualification Summary - SDG 680-151915-1

No Sample Data Qualified in this SDG

Andersen AFB, CTO JQ13
2,4-D & 2,4,5-T - Field Blank Data Qualification Summary - SDG 680-151915-1

No Sample Data Qualified in this SDG

LDC #: 42338F5

SDG #: 680-151915-1

Laboratory: Test America, Inc

VALIDATION COMPLETENESS WORKSHEET

Level C/D

Date: 6/8/18

Page: 1 of 1

Reviewer: Q

2nd Reviewer: M

METHOD: GC Herbicides (EPA SW 846 Method 8151A) 2,4-D & 2,4,5-T

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A/A	RSD ≤ 20%. ICV ≤ 20%
III.	Continuing calibration	A	CCV ≤ 20%
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	FR = 1+2+3
X.	Compound quantitation RL/LOQ/LODs	SW	Not reviewed for Level C validation.
XI.	Target compound identification	A	Not reviewed for Level C validation.
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Level D validation

	Client ID	Lab ID	Matrix	Date
1	GQ004	680-151915-1	Soil	04/24/18
2	GQ005**	680-151915-2**	Soil	04/24/18
3	GQ006	680-151915-3	Soil	04/24/18
4				
5				
6				
7				
8				
9				
10				
11				

Notes:

LDC #: 42338F5

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: Q
2nd Reviewer: K

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
III. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Laboratory blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		✓		
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

LDC #: 42338F5

VALIDATION FINDINGS CHECKLIST

Reviewer: 9
2nd Reviewer: AC

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		TR
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC#: 42338F5

VALIDATION FINDINGS WORKSHEET

Field Triplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Herbicides (EPA SW 846 Method 8151A)

Y N NA Were field triplicates sets identified in this SDG?
Y N NA Were target analytes detected in the field triplicate sets?

Analyte	Concentration (ug/Kg)			RSD (≤ 35)	RPD (≤ 100)
	1	2	3		
2,4-D	9.0U	8.3J	9.0U	NC	

V:\FIELD DUPLICATES\Field Triplicates\2018\42338F5_AECOM.wpd

LDC #: 42338F5

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and RLs

Reviewer: T
2nd Reviewer: AC

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y N N/A Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?

#	Date	Sample ID	Compound	Findings Lab DL/LOD > QAPP DL/LOD	Qualifications
		ALL	2,4-D	5.0/8.3 ug/kg > 2.5/5.0 ug/kg	Text
		2	2,4-D	RPD = 40% (19%)	
			Presence of 2,4-D likely result of glassware contamination per lab		Text

LDC #: 42338F5

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PG
2nd Reviewer: AK

METHOD: GC _____HPLC_____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (0.25 std)	Recalculated CF (0.25 std)	Reported Ave CF (initial)	Recalculated Ave CF (intial)	Reported %RSD	Recalculated %RSD
1	IACL	5/8/18	2,4-D (DB-35MS)	1676989976	1676989976	1593535987	1593535987	12.0	12.0
	(CSGS)		2,4-D (DB-XLB)	325959236	325959236	302399622	302399622	14.4	14.4
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42338F5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC

Percent difference (%D) = 100 * (N - C)/N

Where: N = __ Initial Calibration Factor or __ Nominal Amount (ng)
C = __ Calibration Factor from Continuing Calibration Standard or __ Calculated Amount (ng)

#	Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported CF/Conc CCV	Recalculated CF/Conc CCV	Reported %D	Recalculated %D
1	SE080028	5/8/18	2,4-D (DB-35MS)	1593535987	1336273560	1336273560	16.1	16.1
			2,4-D (DB-XLB)	302399622	279399860	279399860	7.6	7.6
2								
3								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Surrogate Results Verification

Reviewer: Q
2nd reviewer: A

METHOD: ✓ **GC** __ **HPLC**

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 2

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2,4-DCBP	DB-35MS	0.200	0.1865	93	93	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 4-22045

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: AK

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = | SSCLCS - SSCLCSD | * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 680-522541

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	65.1	NA	44.5	NA	68	68				
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 42333F5

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: 2
2nd Reviewer: K

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 2 Compound Name 2,4-D

Concentration = $\frac{(36113981)(10000)(1)}{(1693535987)(30.03)(0.911)}$

= 8.28 ug/kg

#	Sample ID	Compound	Reported Concentrations (ug/kg)	Recalculated Results Concentrations ( )	Qualifications
	2	2,4-D	8.3		

Comments: _____

EPA_NO	LAB_SAMPLE	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **8151A**													
GQ001	680-151865-1	1	2,4,5-T	9/2018 1:20:00 PM	/2018 4:28:00 AM	D		UG_KG	U	8.4	4.4	UJ	s
GQ001	680-151865-1	1	2,4-D	9/2018 1:20:00 PM	/2018 4:28:00 AM	D	10	UG_KG	M	8.4	8.4	J	s,v
GQ002	680-151865-2	1	2,4,5-T	9/2018 1:25:00 PM	/2018 4:47:00 AM	C		UG_KG	U M	8.4	4.3	UJ	s
GQ002	680-151865-2	1	2,4-D	9/2018 1:25:00 PM	/2018 4:47:00 AM	C		UG_KG	U M	8.4	8.4	UJ	s
GQ003	680-151865-3	1	2,4,5-T	9/2018 1:30:00 PM	/2018 5:07:00 AM	D	49	UG_KG	J1	8.4	4.3	J	e,q,v
GQ003	680-151865-3	5	2,4-D	9/2018 1:30:00 PM	/2018 9:55:00 PM	D	380	UG_KG	D J1	42	42	J	e,q,v
GQ007	680-151914-1	1	2,4,5-T	2018 11:00:00 AM	2018 11:56:00 PM	C		UG_KG	U	8.7	4.5		
GQ007	680-151914-1	1	2,4-D	2018 11:00:00 AM	2018 11:56:00 PM	C		UG_KG	U M	8.7	8.7		
GQ008	680-151914-2	1	2,4,5-T	2018 11:05:00 AM	018 12:16:00 AM	C		UG_KG	U	8.5	4.4		
GQ008	680-151914-2	1	2,4-D	2018 11:05:00 AM	018 12:16:00 AM	C		UG_KG	U	8.5	8.5		
GQ009	680-151914-3	1	2,4,5-T	2018 11:10:00 AM	018 12:35:00 AM	D		UG_KG	U	8.6	4.5		
GQ009	680-151914-3	1	2,4-D	2018 11:10:00 AM	018 12:35:00 AM	D		UG_KG	U M	8.6	8.6		
GQ004	680-151915-1	1	2,4,5-T	2018 11:40:00 AM	2018 10:58:00 PM	C		UG_KG	U M	9.0	4.7		
GQ004	680-151915-1	1	2,4-D	2018 11:40:00 AM	2018 10:58:00 PM	C		UG_KG	U	9.0	9.0		
GQ005	680-151915-2	1	2,4,5-T	2018 11:45:00 AM	2018 11:17:00 PM	D		UG_KG	U	9.1	4.7		
GQ005	680-151915-2	1	2,4-D	2018 11:45:00 AM	2018 11:17:00 PM	D	8.3	UG_KG	J	9.1	9.1		
GQ006	680-151915-3	1	2,4,5-T	2018 11:50:00 AM	2018 11:36:00 PM	C		UG_KG	U	9.0	4.7		
GQ006	680-151915-3	1	2,4-D	2018 11:50:00 AM	2018 11:36:00 PM	C		UG_KG	U M	9.0	9.0		
GQ001	D194-01	1	2,4,5-T	8/2018 1:20:00 PM	/2018 6:07:00 AM	D	5.1	UG_KG	U	10	5.1		
GQ001	D194-01	1	2,4-D	8/2018 1:20:00 PM	/2018 6:07:00 AM	D	5.1	UG_KG	U	10	5.1		
GQ002	D194-02	1	2,4,5-T	8/2018 1:25:00 PM	/2018 6:41:00 AM	C	5.0	UG_KG	U	10	5.0		
GQ002	D194-02	1	2,4-D	8/2018 1:25:00 PM	/2018 6:41:00 AM	C	5.0	UG_KG	U	10	5.0		
GQ002DUP	D194-02D	1	2,4,5-T	8/2018 1:25:00 PM	/2018 7:15:00 AM	C	5.1	UG_KG	U	10	5.1		
GQ002DUP	D194-02D	1	2,4-D	8/2018 1:25:00 PM	/2018 7:15:00 AM	C	5.1	UG_KG	U	10	5.1		
GQ002TRIP	D194-02R	1	2,4,5-T	8/2018 1:25:00 PM	/2018 7:49:00 AM	C	5.1	UG_KG	U	10	5.1		

EPA_NO	LAB_SAMPLE	DF	ANALYTE	COLL_DATE	ANAL_DATE	QCLev	RESULT	UNITS	LAB_Q	LOQ	LOD	REV	Q_C
METHOD: **8151A**													
GQ002TRIP	D194-02R	1	2,4-D	3/2018 1:25:00 PM	/2018 7:49:00 AM	C	5.1	UG_KG	U	10	5.1		
GQ003	D194-03	1	2,4,5-T	3/2018 1:30:00 PM	/2018 8:24:00 AM	D	5.1	UG_KG	U	10	5.1		
GQ003	D194-03	1	2,4-D	3/2018 1:30:00 PM	/2018 8:24:00 AM	D	5.1	UG_KG	U	10	5.1		
GQ004	D202-01	1	2,4,5-T	2018 11:40:00 AM	/2018 2:05:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ004	D202-01	1	2,4-D	2018 11:40:00 AM	/2018 2:05:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ005	D202-02	1	2,4,5-T	2018 11:45:00 AM	/2018 4:25:00 PM	D	5.1	UG_KG	U	10	5.1		
GQ005	D202-02	1	2,4-D	2018 11:45:00 AM	/2018 4:25:00 PM	D	5.1	UG_KG	U	10	5.1		
GQ006	D202-03	1	2,4,5-T	2018 11:50:00 AM	/2018 5:00:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ006	D202-03	1	2,4-D	2018 11:50:00 AM	/2018 5:00:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ006DUP	D202-03D	1	2,4,5-T	2018 11:50:00 AM	/2018 5:34:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ006DUP	D202-03D	1	2,4-D	2018 11:50:00 AM	/2018 5:34:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ006TRIP	D202-03R	1	2,4,5-T	2018 11:50:00 AM	/2018 6:08:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ006TRIP	D202-03R	1	2,4-D	2018 11:50:00 AM	/2018 6:08:00 PM	C	5.2	UG_KG	U	10	5.2		
GQ007	D210-01	1	2,4,5-T	2018 11:00:00 AM	/2018 7:51:00 PM	C	5.4	UG_KG	U	11	5.4		
GQ007	D210-01	1	2,4-D	2018 11:00:00 AM	/2018 7:51:00 PM	C	5.4	UG_KG	U	11	5.4		
GQ008	D210-02	1	2,4,5-T	2018 11:05:00 AM	/2018 8:25:00 PM	C	5.5	UG_KG	U	11	5.5		
GQ008	D210-02	1	2,4-D	2018 11:05:00 AM	/2018 8:25:00 PM	C	5.5	UG_KG	U	11	5.5		
GQ009	D210-03	1	2,4,5-T	2018 11:10:00 AM	/2018 9:00:00 PM	D	5.4	UG_KG	U	11	5.4		
GQ009	D210-03	1	2,4-D	2018 11:10:00 AM	/2018 9:00:00 PM	D	5.4	UG_KG	U	11	5.4		
GQ009DUP	D210-03D	1	2,4,5-T	2018 11:10:00 AM	/2018 9:34:00 PM	C	5.4	UG_KG	U	11	5.4		
GQ009DUP	D210-03D	1	2,4-D	2018 11:10:00 AM	/2018 9:34:00 PM	C	5.4	UG_KG	U	11	5.4		
GQ009TRIP	D210-03R	1	2,4,5-T	2018 11:10:00 AM	2018 11:16:00 PM	C	5.4	UG_KG	U	11	5.4		
GQ009TRIP	D210-03R	1	2,4-D	2018 11:10:00 AM	2018 11:16:00 PM	C	5.4	UG_KG	U	11	5.4		