BC LABORATORIES, INC.

Work Order Number: 1713059

Laboratory Documentation Requirements

For Data Validation of

GC Analysis
Volatiles Analysis
Wet Chemistry Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure-

5023146096

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Certifications: CA ELAP #1186; NV #CA00014; AK UST101; OR ELAP #4032; DoD ELAP #66175

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Case Narrative

Analyses Requested: **RSK 175M**
Submission Number: 17-13059

Instrument ID: GC-V1
Model: Varian 3400

Column Type: RTX 502.2, 60m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample and Duplicate: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Case Narrative

Analyses Requested: 8260

Submission Number: 17-13059

Instrument ID: MS-V5
Model: HP5973/GC6890

Column Type: Rxi R-624 Sil MS 30m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) were met. Frequency and accuracy criteria for continuing calibration verification (CCV) were met except the recovery for Bromomethane was outside QC limits. Ending CCV criteria of fifty percent were met. Any compounds that were flagged, but not required, were not noted here.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters for the required compounds were met except the recoveries for t-Butyl alcohol and Carbon disulfide were outside QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy requirements were met except the matrix spike duplicate recovery for Carbon disulfide was outside QC limits. All precision requirements were met.

Case Narrative

Analyses Requested: **Gen-Chem.**
Submission #: 17-13059

Method 300.0
Instrument ID: IC-1
Sample Volume(s): 20ml/20ml

Method 310.1
Instrument ID: MET-1
Sample Volume(s): 50ml/50ml

Method 353.2
Instrument ID: Kone-1
Volume(s): 20ml/20ml

Method 415.1
Instrument ID: TOC2
Sample Volume(s): 100ml/100ml

Method SM-4500SD
Instrument ID: SPEC06
Volume(s):25ml/25ml

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and preparations took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial and continuing calibration verifications were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy and precision requirements were met, except EPA Method SM-4500SD batch ID B[E1634-MS1 the matrix spike recoveries for Total Sulfide were outside QC limits.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

CHAIN OF CUSTODY RECORD

BC Laboratories
4100 Atlas Ct.
Bakersfield, CA 93308
(800) 878-4911

BC PM: Tina Green (661) 852-4204

DATE: 5/11/2017

PAGE: 1 OF 1

LABORATORY CLIENT: MMEC Group
ADDRESS: 7376 SW Durham Road
CITY: Portland, OR 97224
TEL: 503.639.3400
E-Mail: medora.hackler@amecfw.com
E-MAIL: marina.mitchell@amecfw.com

CLIENT PROJECT NAME / NUMBER: Alameda Basewide Groundwater Monitoring
PROJECT CONTACT: Medora Hackler/Marina Mitchell
SAMPLER(S): (SIGNATURE) Ulf Rietz
P.O. NO.: F013200678
QUOTE NO.:
LAB USE ONLY: 17 1-3059

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR ☐ 5 DAYS ☐ 14 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
Standard TAT
DISS. METALS SAMPLES WERE FIELD FILTERED
Report DL/LOD/LOQ

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	QC Level	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	TPH-E as D, JF, MO (8015B)	TPH-P as Gasoline (8015B)	Pesticides (EPA 8081)	Dioxins/Furans (EPA 8290)	Diss. Metals 6010B/6020A/7470A	Cyanide (EPA 335.2)	Diss. methane, ethane, ethene (RSK 175)	Anions (EPA 300.0)	Major Cations (EPA 6010)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)				
-1	TB08_170511	5/11/17	10:00	BW	2		X																		
-2	EB19_170511		11:00		3		X																		
-3	EB20_170511		11:10		3		X																		
-4	27MW09_170511		0938	GW	9		X								X	X		X	X		X				
-5	27MW10_170511		1134		9		X								X	X		X	X		X				
-6	27MW11_170511		0820		9		X								X	X		X	X		X				
-7	DUP10_170511		0828		3		X																		
-8	27MW12_170511		0937		9		X								X	X		X	X		X				
-9	27MW13_170511		1105		9		X								X	X		X	X		X				
-10	27MW14_170511		0815		9		X								X	X		X	X		X				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Mary Bogan	5/11/17	1345
Mary Bogan 5-11-17 1830	[signature]	5/11/17	18:30
[signature]	[signature]	5-11	2230

Chain of Custody and Cooler Receipt Form for 1713059 Page 2 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 1713059

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: VOA Thermometer ID: 208 Date/Time 5/11 2230
Temperature: (A) 3.0 °C / (C) 3.1 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
8oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL		ABC	ABC	A-BC	A-BC	A-BC	ABC	ABC	A-BC	A-BC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ VSIC				DEF	DEF	DEF		DEF	DEF	DEF
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

SHORT HOLDING TIME: Cr^{+6}, DO, NO_2, Cl_2, BOD, OP, MBAS, SS, COD
CHK BY: DISTRIBUTION, SUB-OUT ☐

Comments:
Sample Numbering Completed By: Date/Time: 5-11 2330
A = Actual / C = Corrected

Rev 21 05/23/2016
(S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMPREC rev 20)

Chain of Custody and Cooler Receipt Form for 1713059 Page 3 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 17-13059

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Bottle Thermometer ID: 208 Date/Time 5/11 2230
Temperature: (A) 2.0 °C / (C) 2.3 °C Analyst Init GSP

SAMPLE CONTAINERS	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		~~C~~	~~G~~	G	G	G		G	G	G
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE				H	H	H		H	H	H
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON				I	I	I		I	I	I
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	AB									
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: AB Date/Time 5/11 2340
A = Actual / C = Corrected

Rev 21 05/23/2016
[S:\WPDoc\WordPerfect\LAB_DOC\FORMS\SAMREC rev 20]

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **1713059**
Class: **GC**
Method: **RSK-175M**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

RSK-175M

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27MW09_170511	1713059-04
27MW10_170511	1713059-05
27MW11_170511	1713059-06
27MW12_170511	1713059-08
27MW13_170511	1713059-09
27MW14_170511	1713059-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 06-13-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

RSK-175M

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: GC-V1

Analyte	DL	LOD	LOQ	Units
Methane	0.00013	0.0006	0.001	mg/L
Ethane	0.00049	0.001	0.002	mg/L
Ethene	0.00058	0.001	0.002	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW09_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-04	File ID:	12MAY12.D
Sampled:	05/11/17 09:38	Prepared:	05/12/17 08:49	Analyzed:	05/12/17 09:44
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[E1419	Sequence:	1708354	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.15	0.00028	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW10_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-05	File ID:	12MAY13.D
Sampled:	05/11/17 11:34	Prepared:	05/12/17 08:49	Analyzed:	05/12/17 09:49
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[E1419	Sequence:	1708354	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.024	0.00028	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW11_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-06	File ID:	12MAY14.D
Sampled:	05/11/17 08:20	Prepared:	05/12/17 08:49	Analyzed:	05/12/17 10:02
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[E1419	Sequence:	1708354	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	10	0.69	0.0028	0.0060	0.010	D
74-84-0	Ethane	10	0.010	0.0075	0.010	0.020	UD
74-85-1	Ethene	10	0.010	0.0077	0.010	0.020	UD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW12_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-08	File ID:	12MAY15.D
Sampled:	05/11/17 09:37	Prepared:	05/12/17 08:49	Analyzed:	05/12/17 10:06
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[E1419	Sequence:	1708354	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.0071	0.00028	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW13_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-09	File ID:	12MAY16.D
Sampled:	05/11/17 11:05	Prepared:	05/12/17 08:49	Analyzed:	05/12/17 10:12
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[E1419	Sequence:	1708354	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.014	0.00028	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW14_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-10	File ID:	12MAY17.D
Sampled:	05/11/17 08:15	Prepared:	05/12/17 08:49	Analyzed:	05/12/17 10:16
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[E1419	Sequence:	1708354	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.092	0.00028	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1419
Batch Matrix: Water
Preparation: RSK-175M

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW09_170511	1713059-04	12MAY12.D	05/12/17 08:49	
27MW10_170511	1713059-05	12MAY13.D	05/12/17 08:49	
27MW11_170511	1713059-06	12MAY14.D	05/12/17 08:49	
27MW12_170511	1713059-08	12MAY15.D	05/12/17 08:49	
27MW13_170511	1713059-09	12MAY16.D	05/12/17 08:49	
27MW14_170511	1713059-10	12MAY17.D	05/12/17 08:49	
Blank	B[E1419-BLK1	12MAY04.D	05/12/17 08:49	
LCS	B[E1419-BS1	12MAY05.D	05/12/17 08:49	
LCS Dup	B[E1419-BSD1	12MAY06.D	05/12/17 08:49	

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
RSK-175M

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1419-BLK1	File ID:	12MAY04.D
Prepared:	05/12/17 08:49	Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Analyzed:	05/12/17 09:08	Instrument:	GC-V1		
Batch:	B[E1419	Sequence:	1708354	Calibration:	1702007

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.00060	0.00028	0.00060	0.0010	U
74-84-0	Ethane	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	0.0010	0.00077	0.0010	0.0020	U

AMEC Environmental & Infrastructure-
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Project Manager: Kelli Miller

LCS RECOVERY
RSK-175M

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1419
Laboratory ID: B[E1419-BS1
Preparation: RSK-175M
Initial/Final: 1 ml / 1 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Methane	0.010843	0.010340	95.4	73 - 125
Ethane	0.021736	0.024444	112	74 - 131
Ethene	0.028446	0.028482	100	72 - 133

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Methane	0.010843	0.010408	96.0	0.656	20	73 - 125
Ethane	0.021736	0.023287	107	4.85	20	74 - 131
Ethene	0.028446	0.027584	97.0	3.20	20	72 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1701454	Instrument:	GC-V1
Matrix:	Water	Calibration:	1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1701454-CAL4	27JAN02.D	01/27/17 07:43
Cal Standard	1701454-CAL3	27JAN03.D	01/27/17 07:47
Cal Standard	1701454-CAL2	27JAN04.D	01/27/17 07:52
Cal Standard	1701454-CAL1	27JAN05.D	01/27/17 07:56
Initial Cal Check	1701454-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1701454-ICB1	27JAN07.D	01/27/17 08:45

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1708354	Instrument:	GC-V1
Matrix:	Water	Calibration:	1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1708354-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1708354-ICB1	27JAN07.D	01/27/17 08:45
Calibration Check	1708354-CCV1	12MAY02.D	05/12/17 08:57
Calibration Blank	1708354-CCB1	12MAY03.D	05/12/17 09:03
Blank	B[E1419-BLK1	12MAY04.D	05/12/17 09:08
LCS	B[E1419-BS1	12MAY05.D	05/12/17 09:12
LCS Dup	B[E1419-BSD1	12MAY06.D	05/12/17 09:16
Calibration Check	1708354-CCV2	12MAY07.D	05/12/17 09:21
Calibration Blank	1708354-CCB2	12MAY08.D	05/12/17 09:26
27MW09_170511	1713059-04	12MAY12.D	05/12/17 09:44
27MW10_170511	1713059-05	12MAY13.D	05/12/17 09:49
27MW11_170511	1713059-06	12MAY14.D	05/12/17 10:02
27MW12_170511	1713059-08	12MAY15.D	05/12/17 10:06
27MW13_170511	1713059-09	12MAY16.D	05/12/17 10:12
27MW14_170511	1713059-10	12MAY17.D	05/12/17 10:16
Calibration Check	1708354-CCV3	12MAY18.D	05/12/17 10:20
Calibration Blank	1708354-CCB3	12MAY19.D	05/12/17 10:25

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1701454	Injection Date:	01/27/17
Lab Sample ID:	1701454-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1708354	Injection Date:	01/27/17
Lab Sample ID:	1708354-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	12MAY02.D	Calibration Date:	01/27/17 07:43
Sequence:	1708354	Injection Date:	05/12/17
Lab Sample ID:	1708354-CCV1	Injection Time:	08:57

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.099	605292.5	675391.6		11.6	15
Ethane	A	21.736	22.987	580938.9	614344.4		5.8	15
Ethene	A	28.446	26.970	402477.4	381590		-5.2	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	12MAY07.D	Calibration Date:	01/27/17 07:43
Sequence:	1708354	Injection Date:	05/12/17
Lab Sample ID:	1708354-CCV2	Injection Time:	09:21

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.404	605292.5	580811.7		-4.0	15
Ethane	A	21.736	23.597	580938.9	630639.5		8.6	15
Ethene	A	28.446	31.473	402477.4	445300.6		10.6	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	12MAY18.D	Calibration Date:	01/27/17 07:43
Sequence:	1708354	Injection Date:	05/12/17
Lab Sample ID:	1708354-CCV3	Injection Time:	10:20

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	11.972	605292.5	668294.9		10.4	15
Ethane	A	21.736	24.154	580938.9	645524.5		11.1	15
Ethene	A	28.446	28.055	402477.4	396942.6		-1.4	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION STANDARDS

RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1701454	Instrument:	GC-V1
Calibration:	1702007		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7B07024	RSK-175M CAL4	1701454-CAL4	27JAN02.D	01/27/17 07:43
7B07023	RSK-175M CAL3	1701454-CAL3	27JAN03.D	01/27/17 07:47
7B07022	RSK-175M CAL2	1701454-CAL2	27JAN04.D	01/27/17 07:52
7B07021	RSK-175M CAL1	1701454-CAL1	27JAN05.D	01/27/17 07:56

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
RSK-175M

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Calibration:	1702007	Instrument:	GC-V1
Matrix:	Water	Calibration Date:	01/27/17 07:43

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methane	1.0843	637975.6	10.843	692654	108.43	493653.4	542.15	596887.1				
Ethane	2.1736	586625.4	21.736	661756.1	217.36	501173.7	1086.8	574200.6				
Ethene	2.8446	439934.3	28.446	440075.9	284.46	333630.7	1422.3	396268.7				

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

RSK-175M

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Calibration: 1702007
Matrix: Water

SDG: 1713059
Project: Alameda
Instrument: GC-V1
Calibration Date: 01/27/17 07:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methane	605292.5	13.89926	0.73	1.372967E-02			20	
Ethane	580938.9	11.31896	2.0825	0.4599198			20	
Ethene	402477.4	12.50156	1.7325	0.5526404			20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
RSK-175M

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/12/17 08:49	1.00	14.00	05/12/17 09:44	1.00	14.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/12/17 08:49	1.00	14.00	05/12/17 09:49	1.00	14.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/12/17 08:49	1.00	14.00	05/12/17 10:02	1.00	14.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/12/17 08:49	1.00	14.00	05/12/17 10:06	1.00	14.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/12/17 08:49	1.00	14.00	05/12/17 10:12	1.00	14.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/12/17 08:49	1.00	14.00	05/12/17 10:16	1.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument GC-V1

Raw Data - Samples

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY12.D Vial: 12
Acq On : 12 May 2017 9:44 am Operator: JH2
Sample : 1713059-04 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.70	91654797	151.4223	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

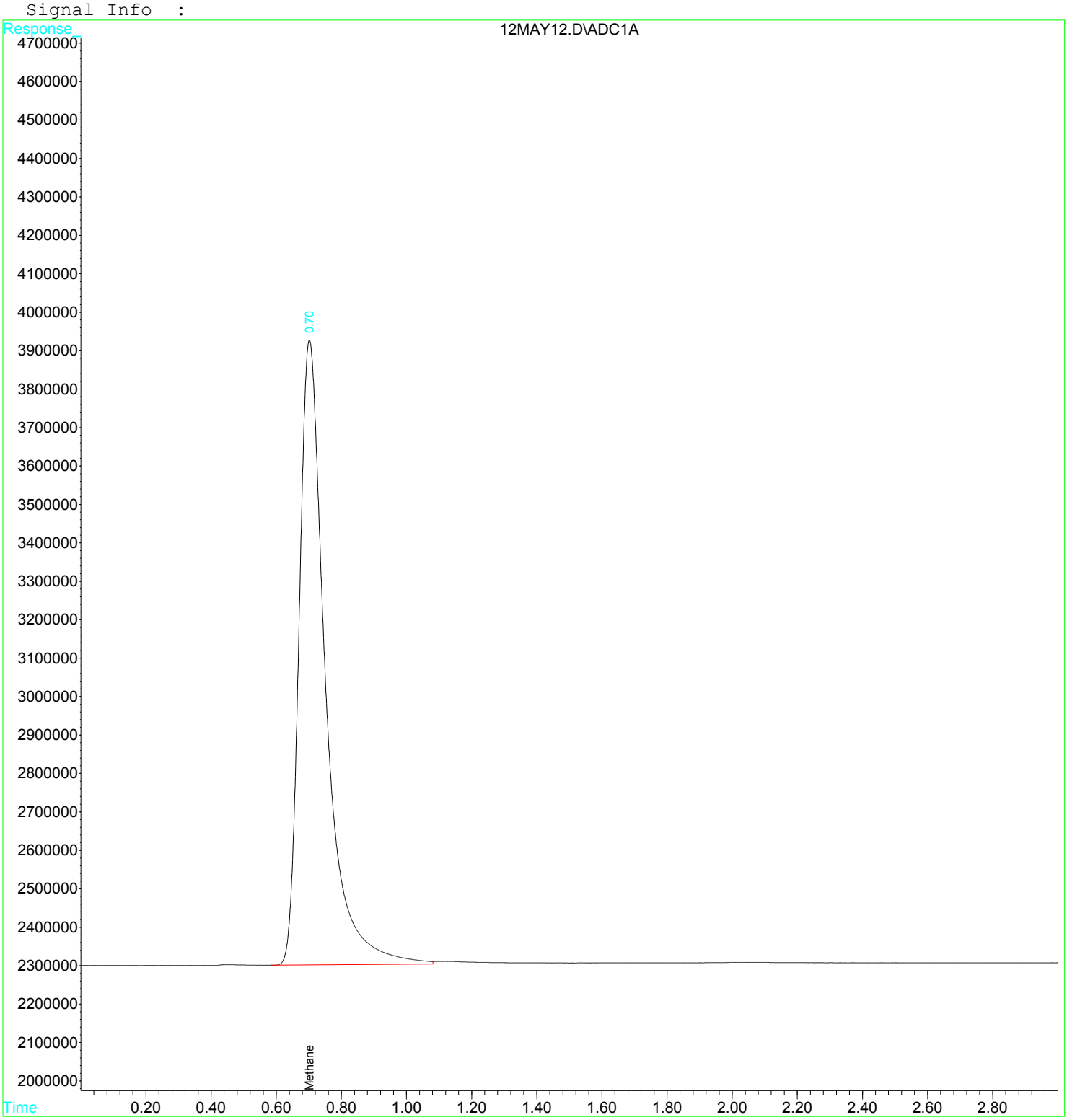
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY12.D Vial: 12
Acq On : 12 May 2017 9:44 am Operator: JH2
Sample : 1713059-04 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

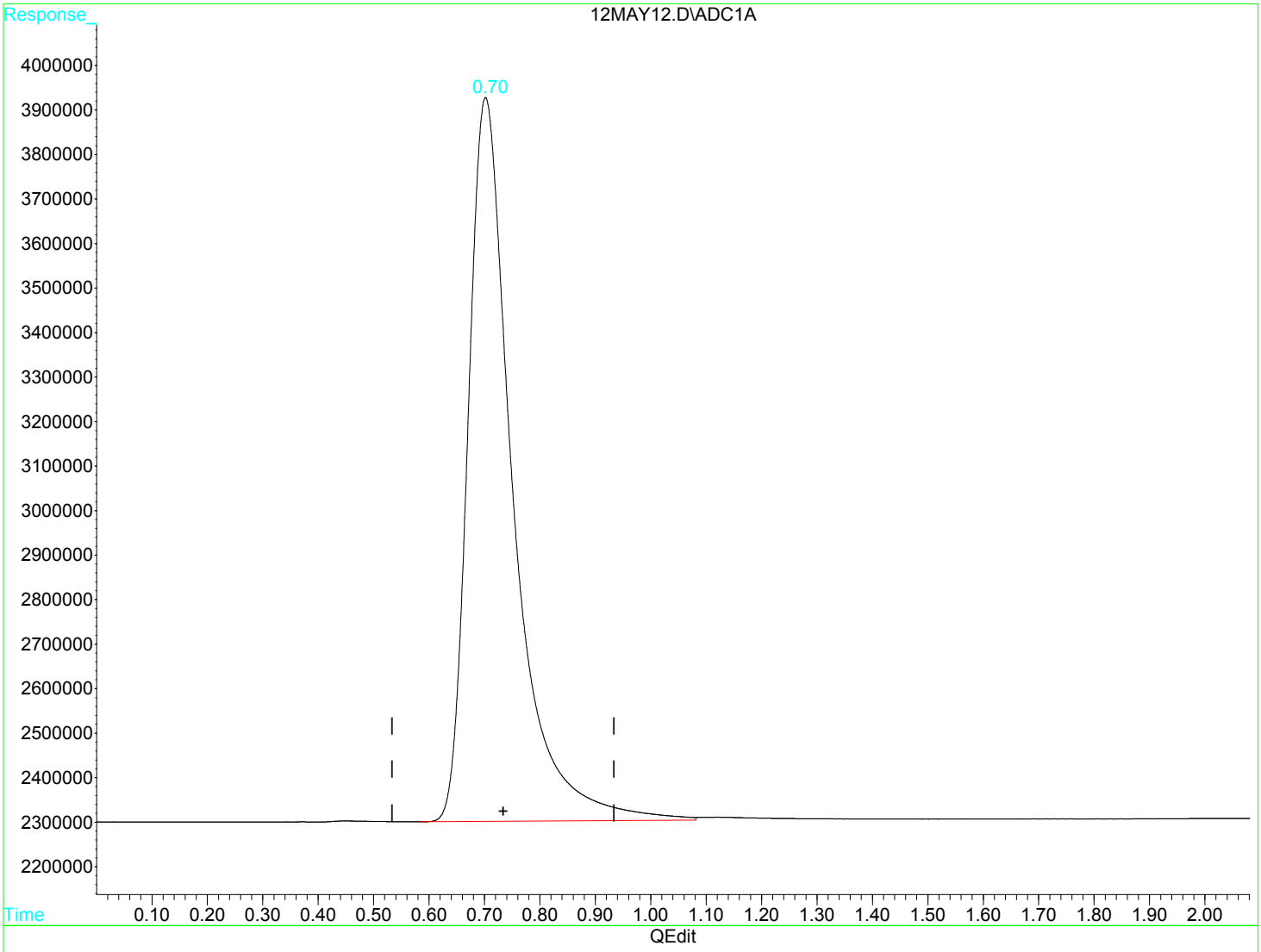
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY12.D Vial: 12
Acq On : 12 May 2017 9:44 am Operator: JH2
Sample : 1713059-04 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:17 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 151.422ug/L

response 91654797

(+) = Expected Retention Time

12MAY12.D RSK175.M Fri May 12 11:17:22 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY13.D Vial: 13
Acq On : 12 May 2017 9:49 am Operator: JH2
Sample : 1713059-05 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:02 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.70	14713784	24.3085 ug/L
2) m Ethene	0.00	0	N.D. ug/L d
3) m Ethane	0.00	0	N.D. ug/L d

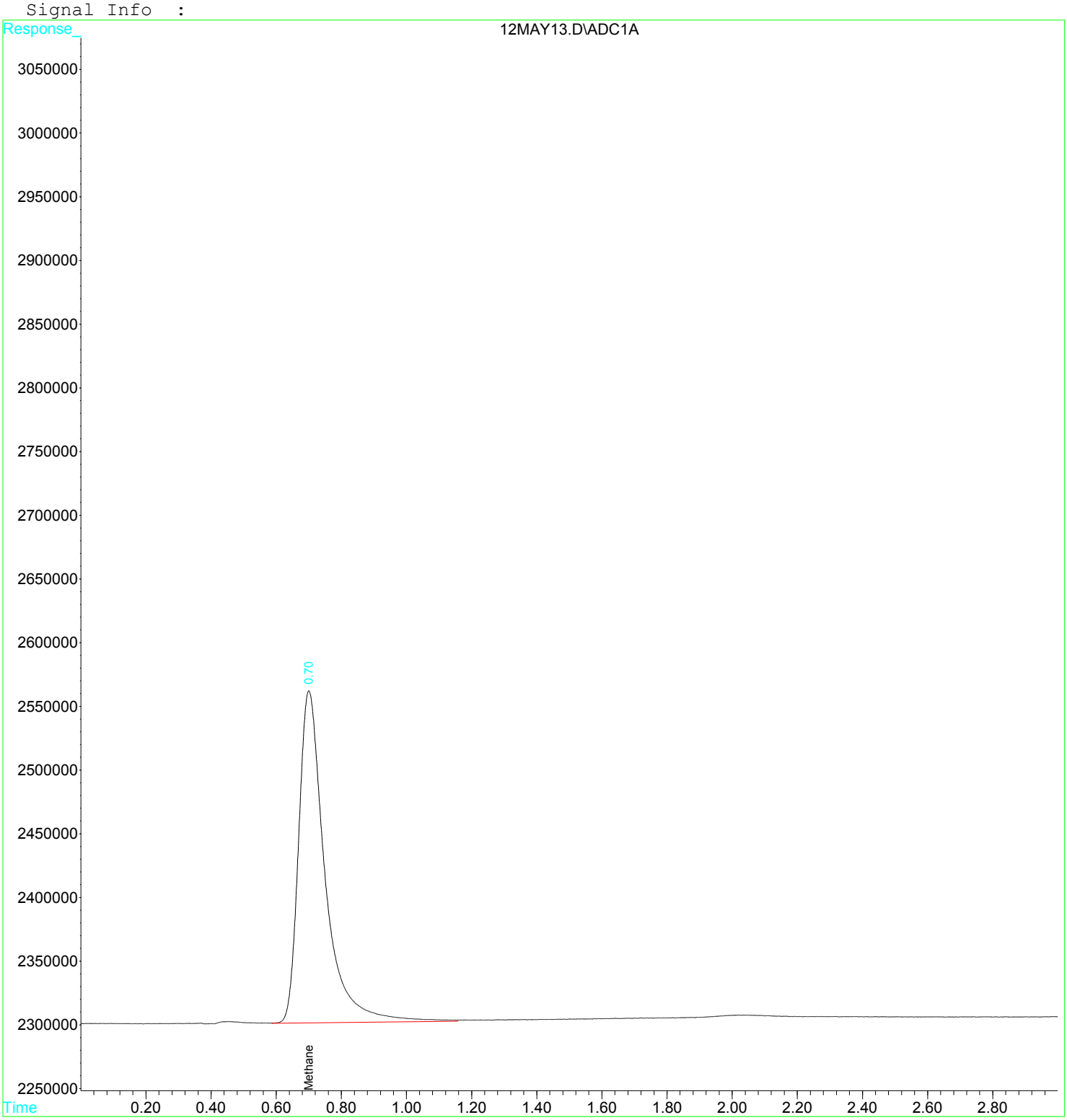
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY13.D Vial: 13
Acq On : 12 May 2017 9:49 am Operator: JH2
Sample : 1713059-05 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:02 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

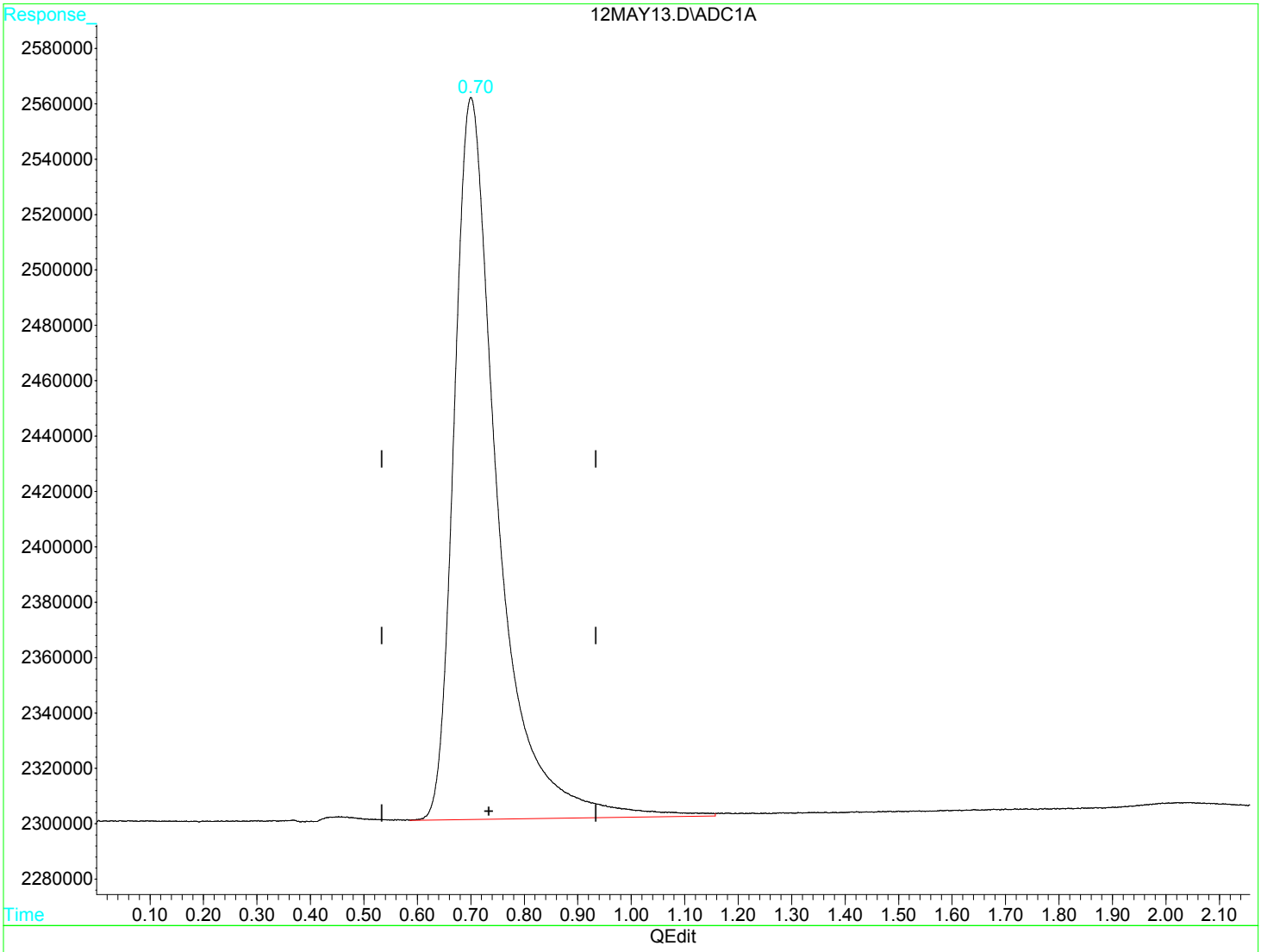
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY13.D Vial: 13
Acq On : 12 May 2017 9:49 am Operator: JH2
Sample : 1713059-05 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:52 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 24.309ug/L

response 14713784

(+) = Expected Retention Time

12MAY13.D RSK175.M Fri May 12 11:02:22 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY14.D Vial: 14
Acq On : 12 May 2017 10:02 am Operator: JH2
Sample : 1713059-06 Inst : GC-V1
Misc : 10 E RSK-175 25uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:03 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.71	41740613	68.9594 ug/L
2) m Ethene	0.00	0	N.D. ug/L d
3) m Ethane	0.00	0	N.D. ug/L d

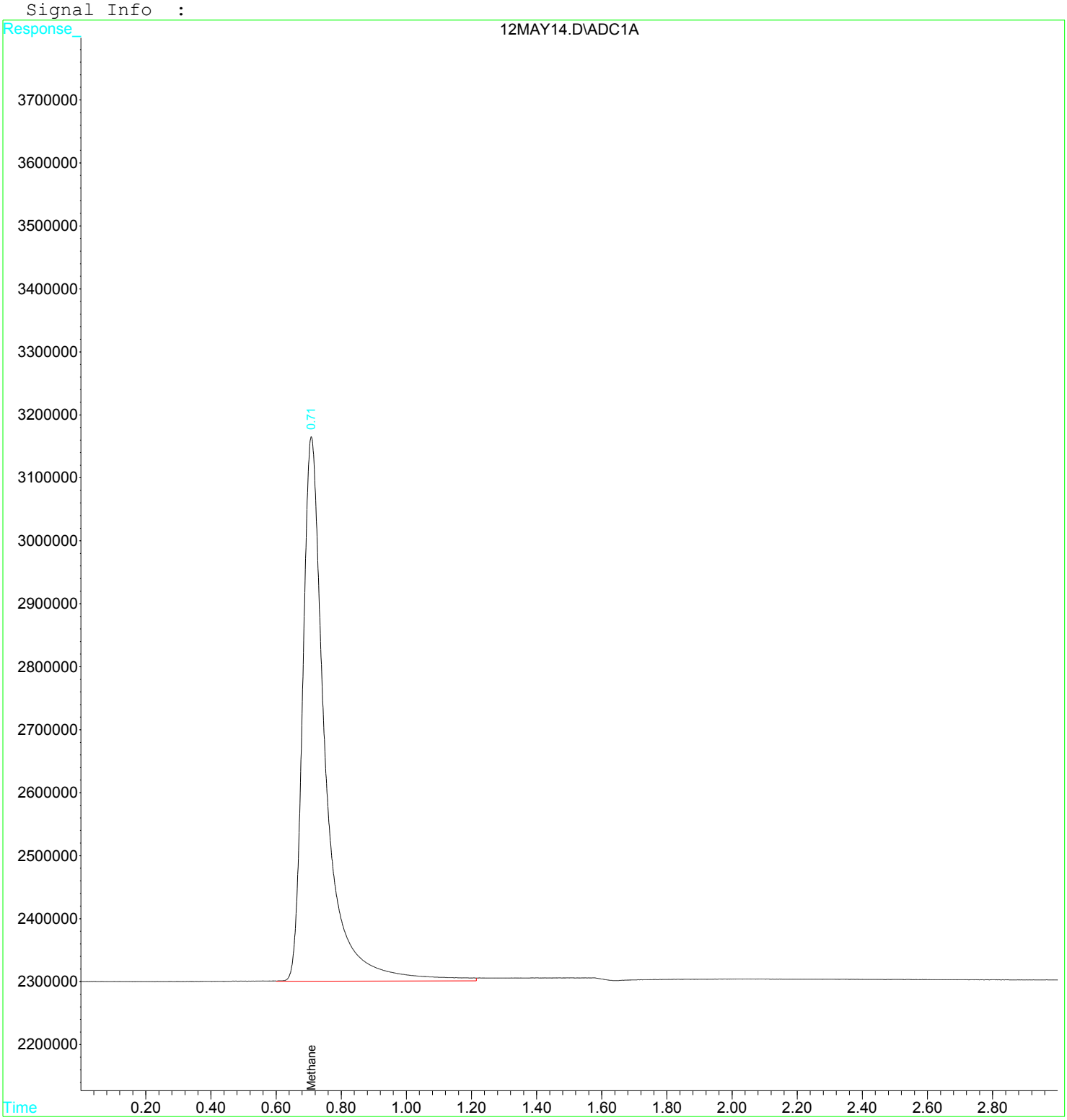
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY14.D Vial: 14
Acq On : 12 May 2017 10:02 am Operator: JH2
Sample : 1713059-06 Inst : GC-V1
Misc : 10 E RSK-175 25uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:03 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

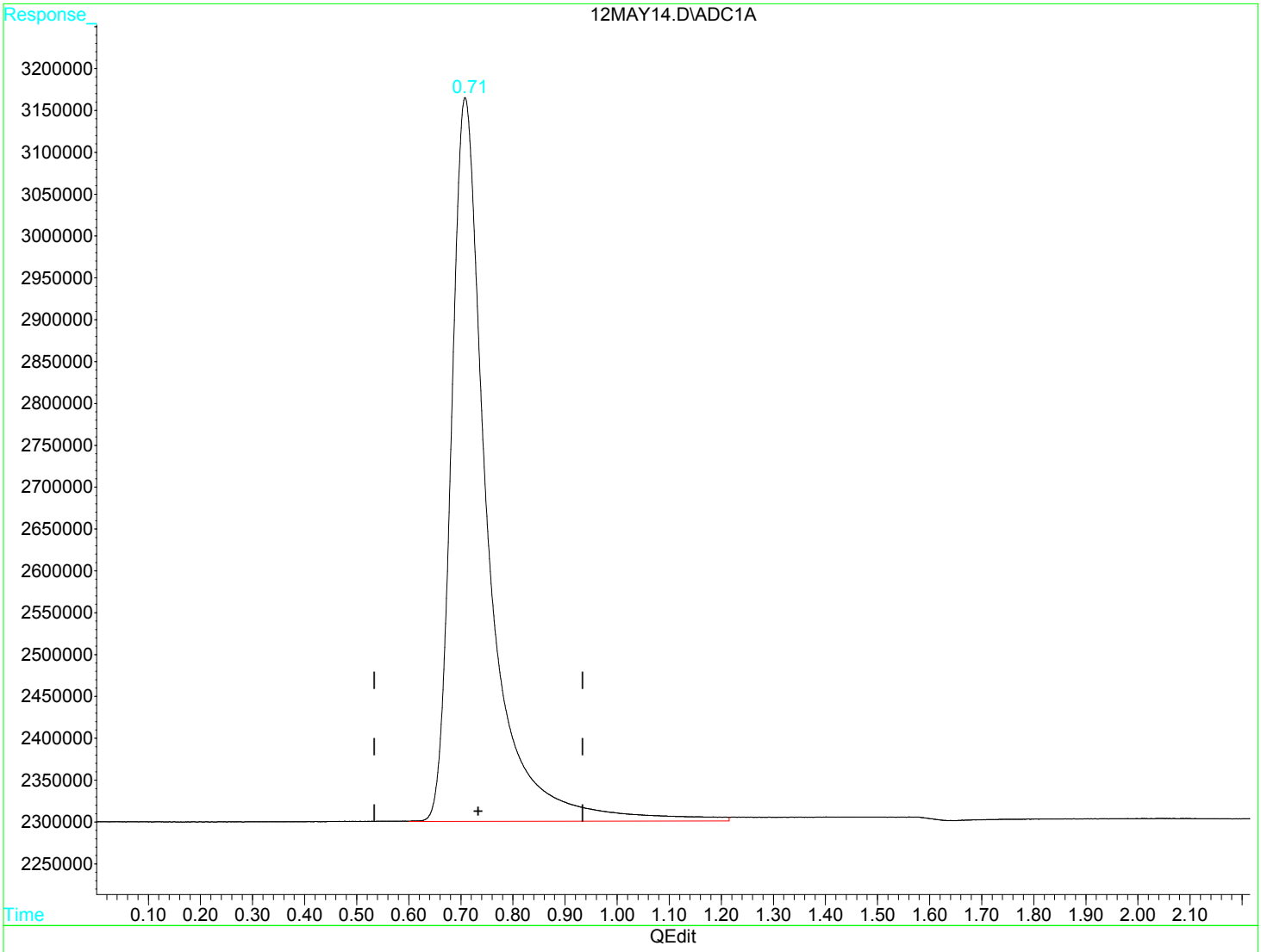
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY14.D Vial: 14
Acq On : 12 May 2017 10:02 am Operator: JH2
Sample : 1713059-06 Inst : GC-V1
Misc : 10 E RSK-175 25uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:03 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.71min 68.959ug/L

response 41740613

(+) = Expected Retention Time

12MAY14.D RSK175.M Fri May 12 11:12:19 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY15.D Vial: 15
Acq On : 12 May 2017 10:06 am Operator: JH2
Sample : 1713059-08 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:03 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1) m	Methane	0.70	4292602	7.0918 ug/L m
2) m	Ethene	0.00	0	N.D. ug/L d
3) m	Ethane	0.00	0	N.D. ug/L d

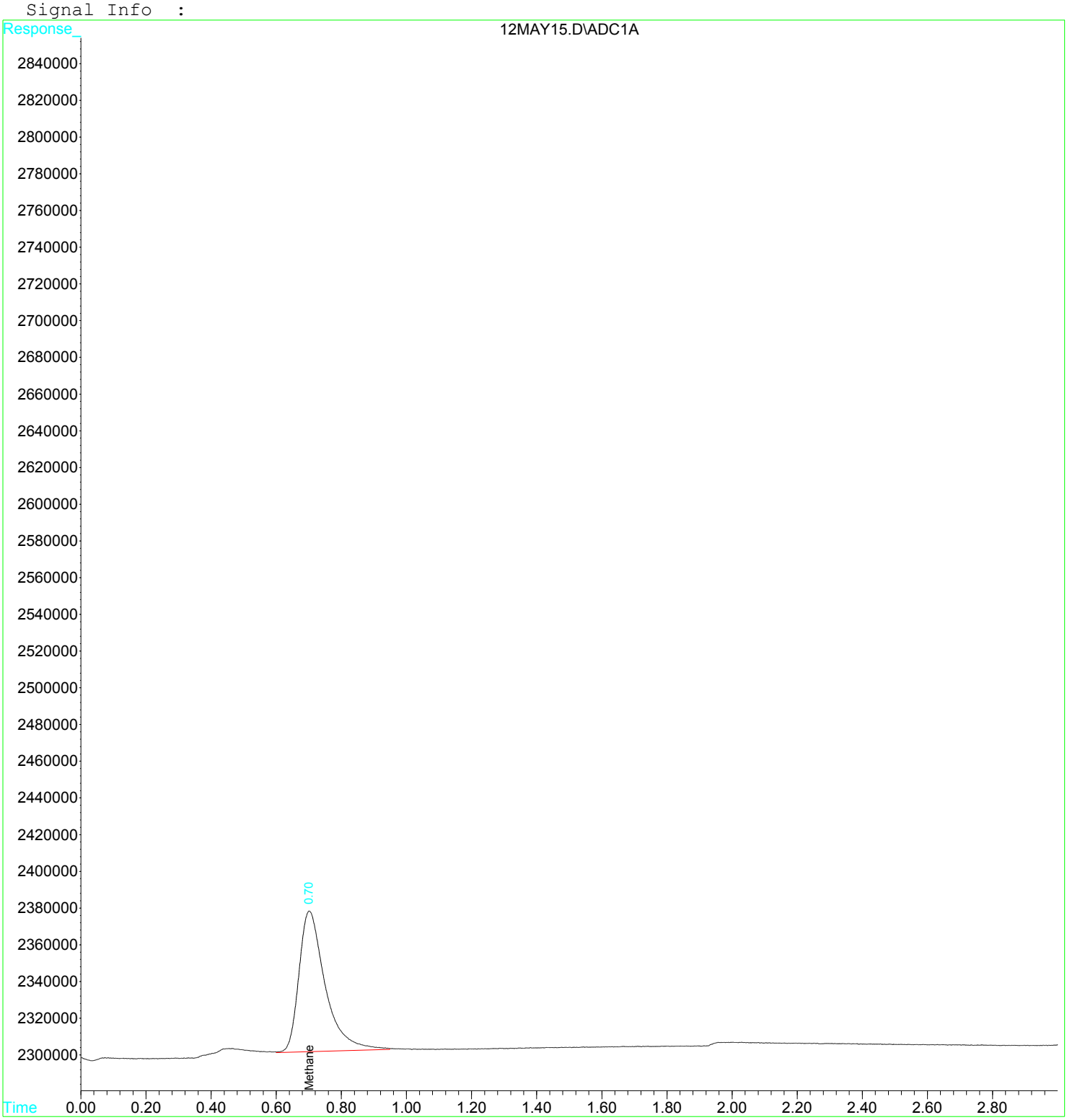
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY15.D Vial: 15
Acq On : 12 May 2017 10:06 am Operator: JH2
Sample : 1713059-08 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:03 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

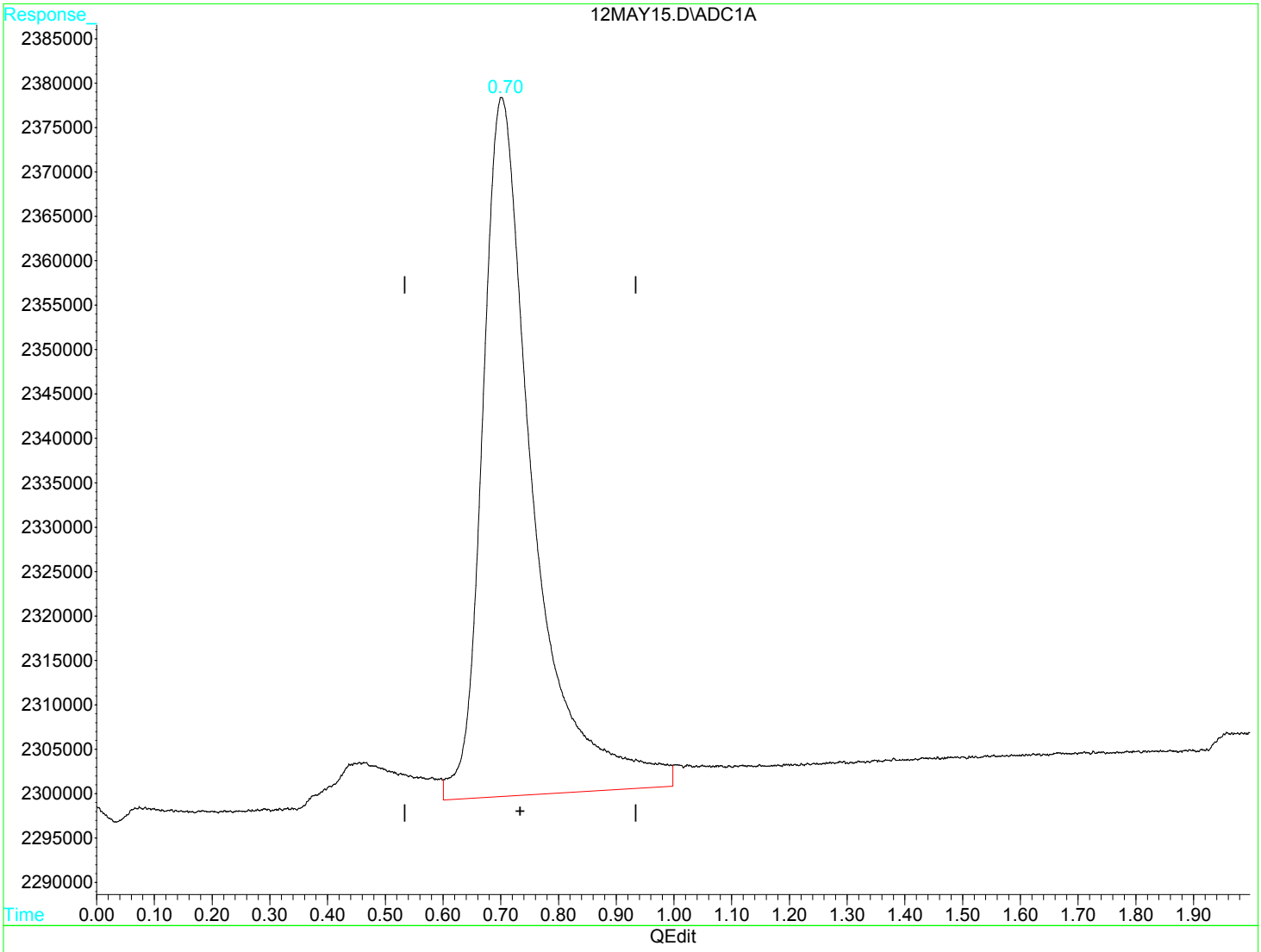
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY15.D Vial: 15
Acq On : 12 May 2017 10:06 am Operator: JH2
Sample : 1713059-08 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:09 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 7.963ug/L

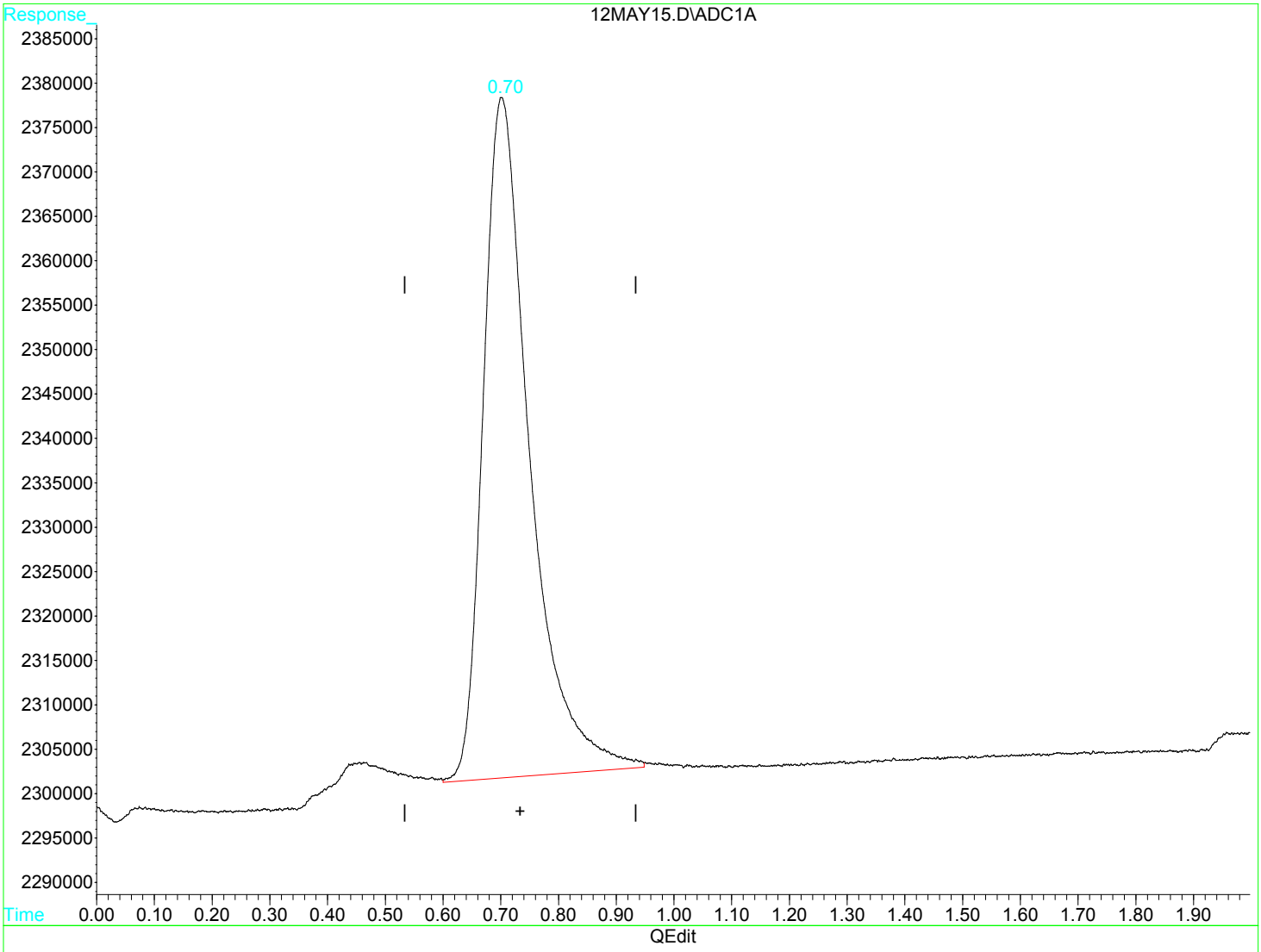
response 4820101

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY15.D Vial: 15
Acq On : 12 May 2017 10:06 am Operator: JH2
Sample : 1713059-08 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:09 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 7.092ug/L m

response 4292602

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY16.D Vial: 16
Acq On : 12 May 2017 10:12 am Operator: JH2
Sample : 1713059-09 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:04 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.72	8345199	13.7871 ug/L
2) m Ethene	0.00	0	N.D. ug/L d
3) m Ethane	0.00	0	N.D. ug/L d

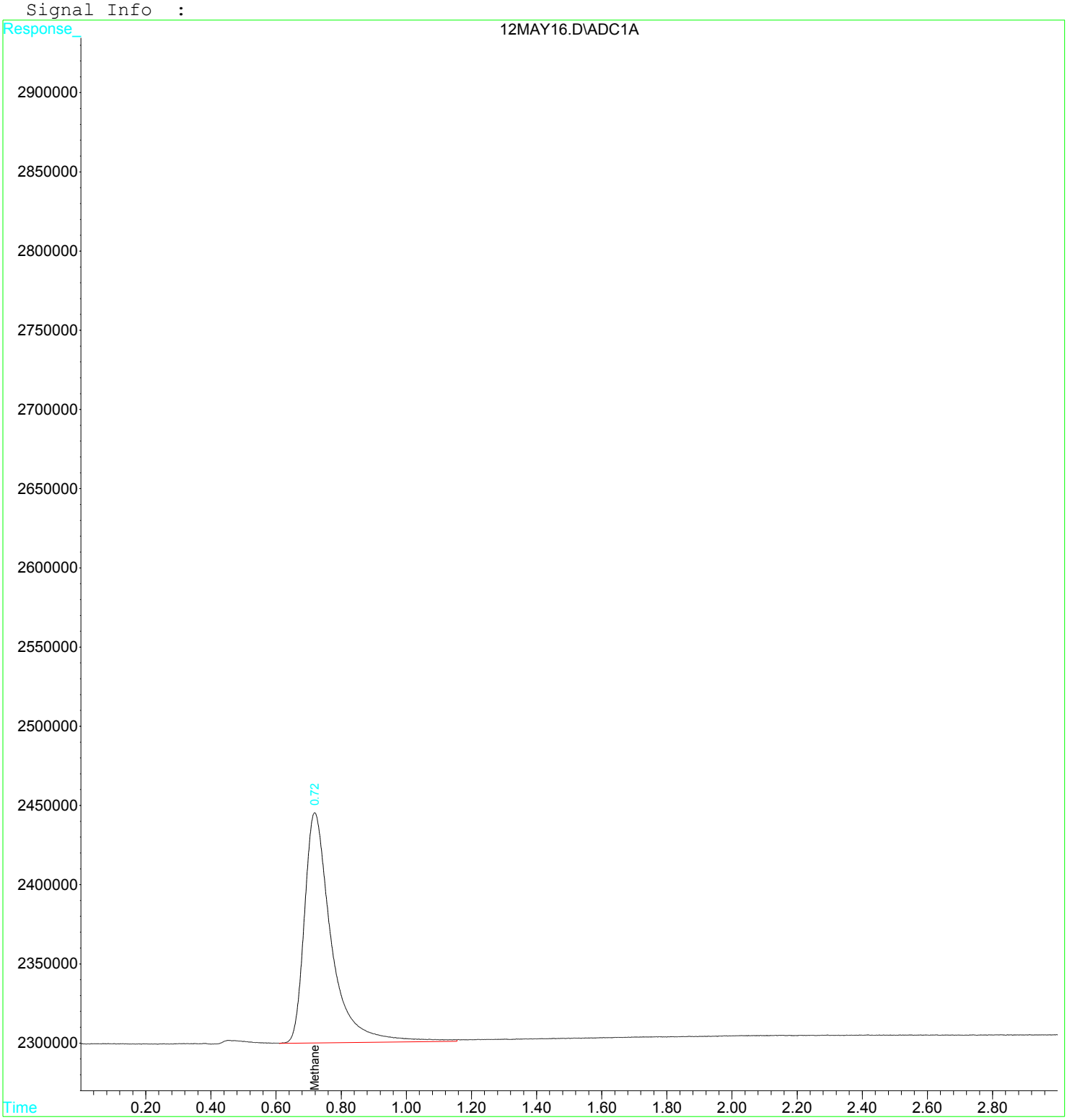
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY16.D Vial: 16
Acq On : 12 May 2017 10:12 am Operator: JH2
Sample : 1713059-09 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:04 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

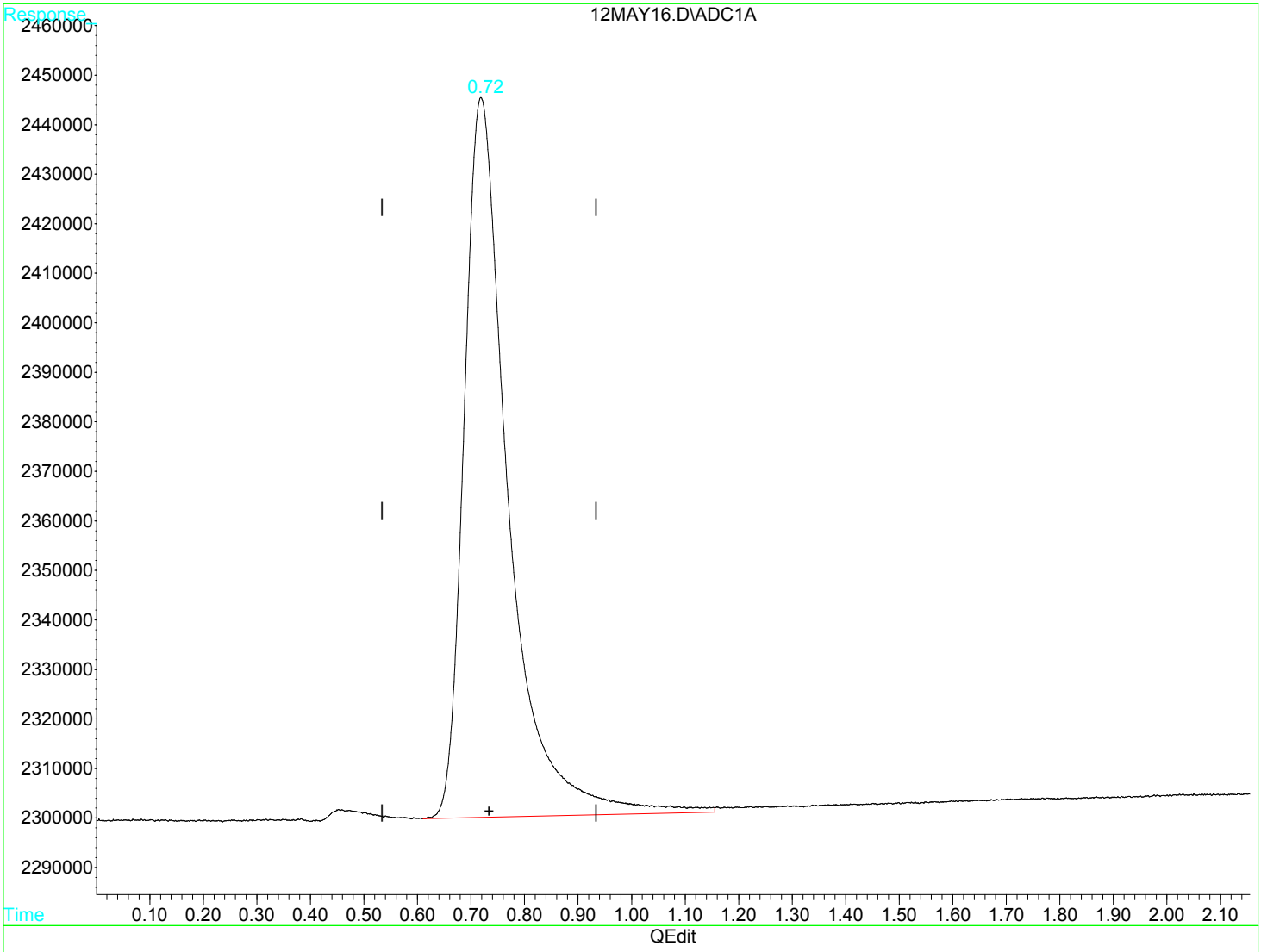
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY16.D Vial: 16
Acq On : 12 May 2017 10:12 am Operator: JH2
Sample : 1713059-09 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 13.787ug/L

response 8345199

(+) = Expected Retention Time

12MAY16.D RSK175.M Fri May 12 11:04:05 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY17.D Vial: 17
Acq On : 12 May 2017 10:16 am Operator: JH2
Sample : 1713059-10 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.68	55867793	92.2988	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

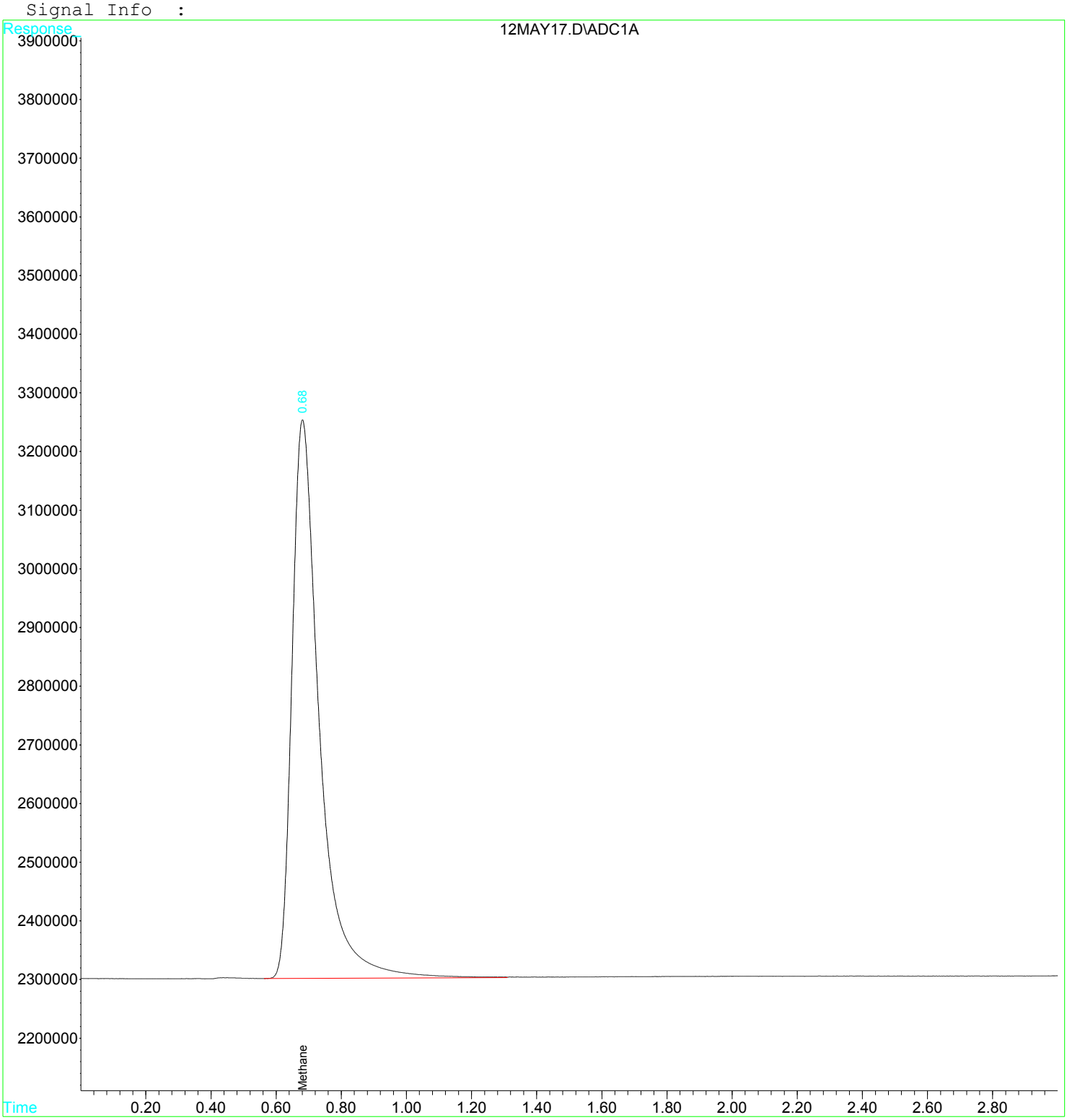
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY17.D Vial: 17
Acq On : 12 May 2017 10:16 am Operator: JH2
Sample : 1713059-10 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

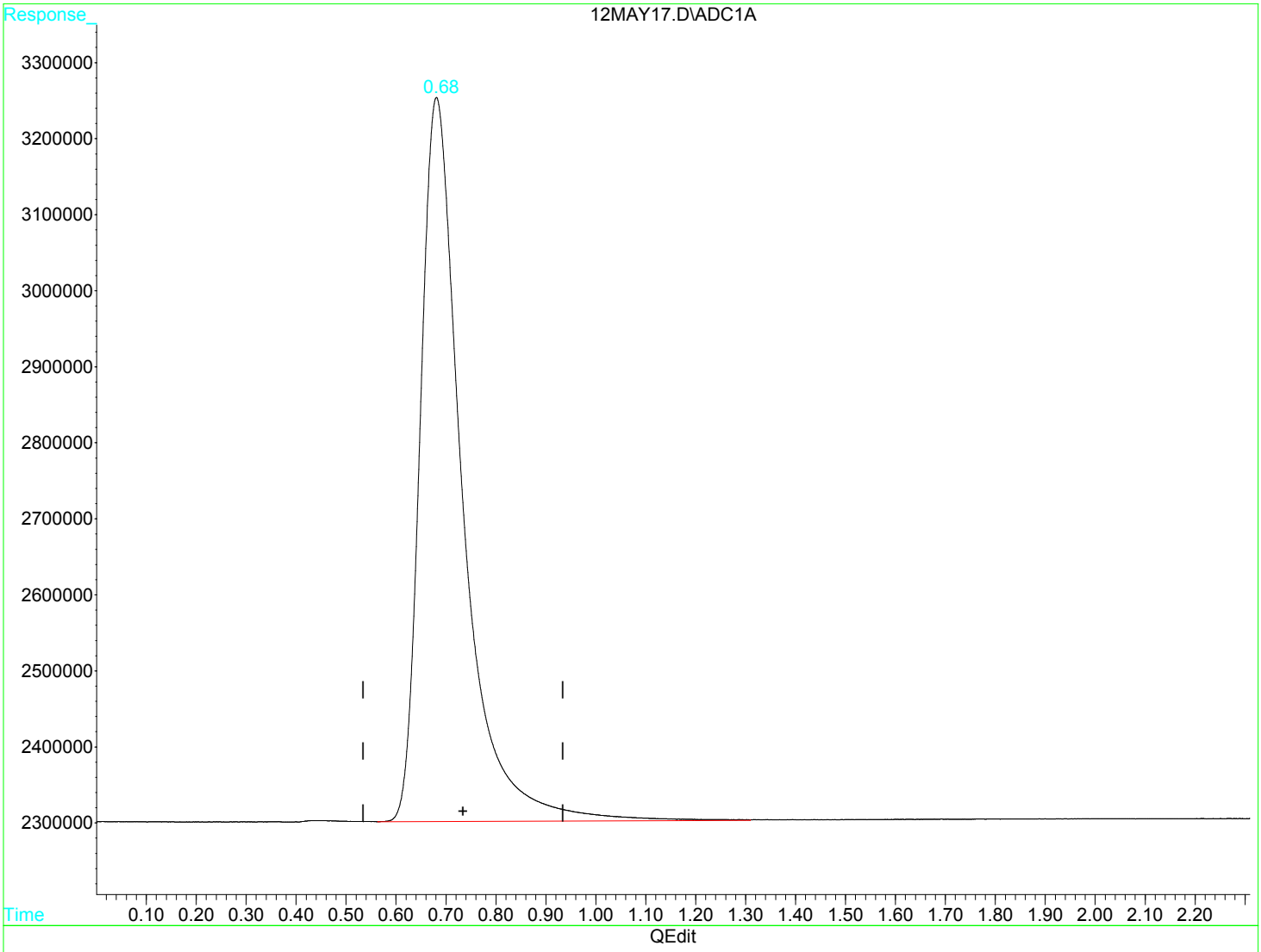
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY17.D Vial: 17
Acq On : 12 May 2017 10:16 am Operator: JH2
Sample : 1713059-10 Inst : GC-V1
Misc : 1 E RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.68min 92.299ug/L

response 55867793

(+) = Expected Retention Time

12MAY17.D RSK175.M Fri May 12 11:05:20 2017 MSD1

Raw Data - Calibration Standards

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) m	Methane	0.73	691757	1.1814 ug/L
2) m	Ethene	1.72	1251437	3.2424 ug/L
3) m	Ethane	2.07	1275089	2.2179 ug/L

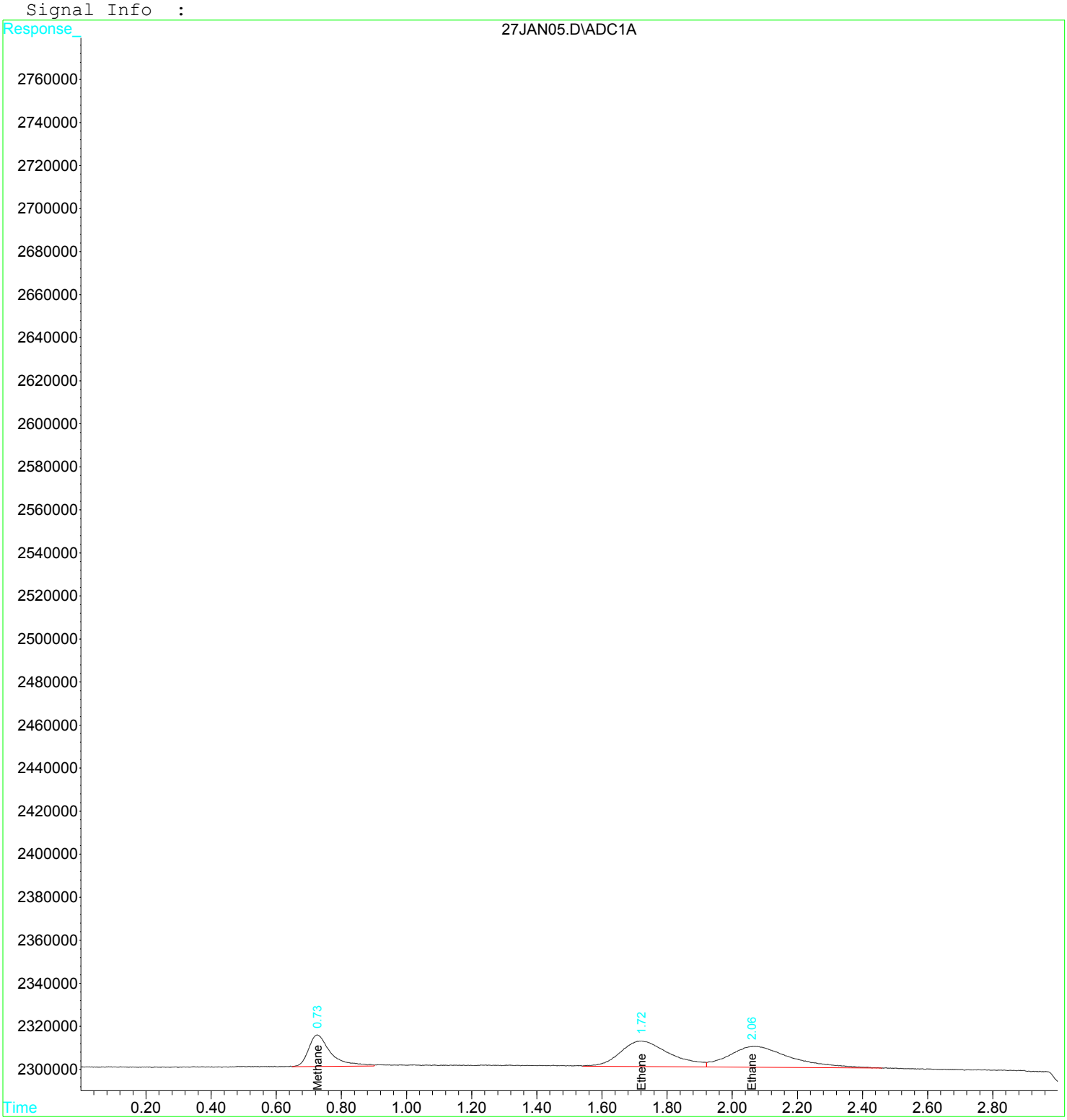
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

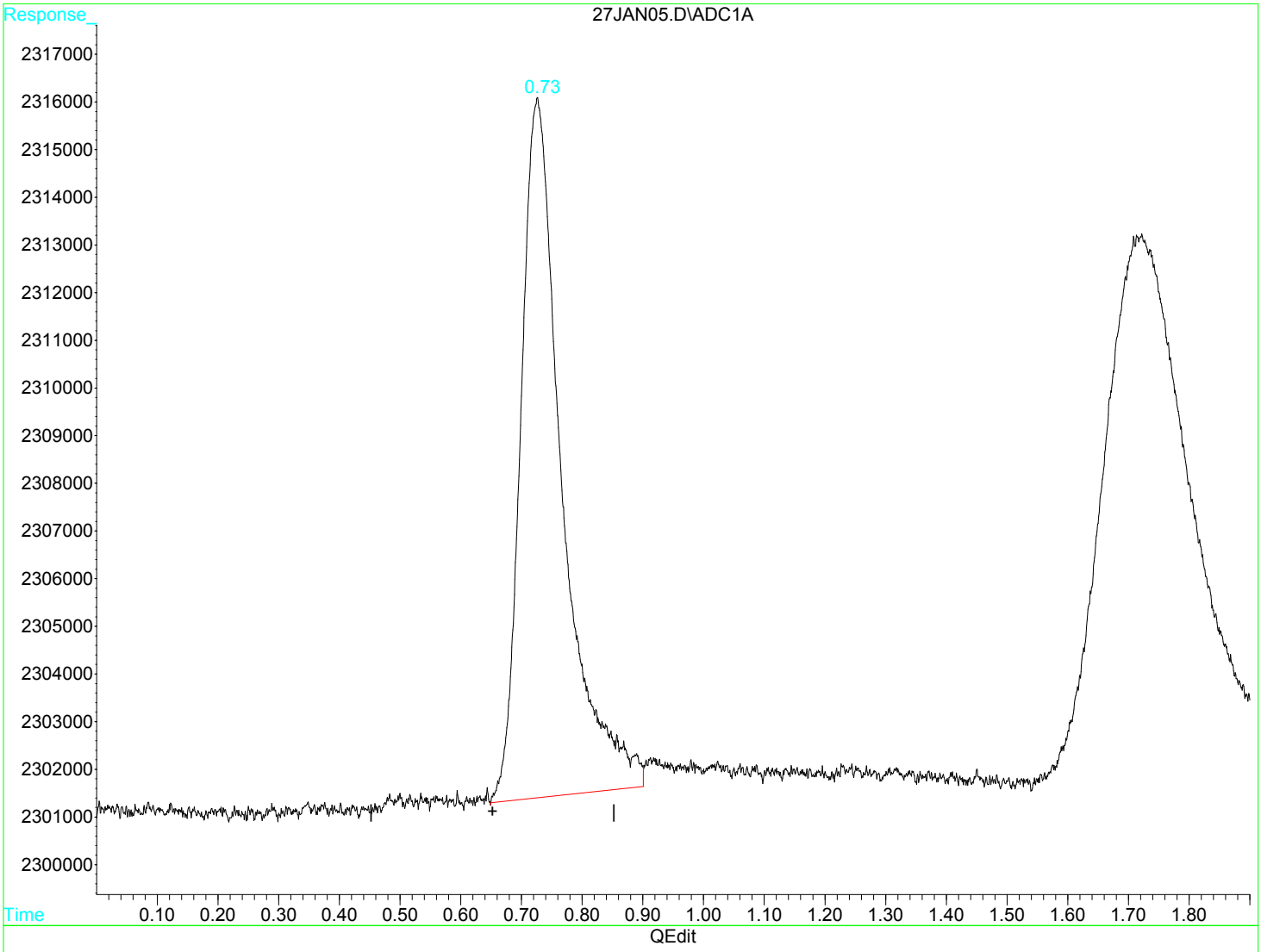
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 1.181ug/L

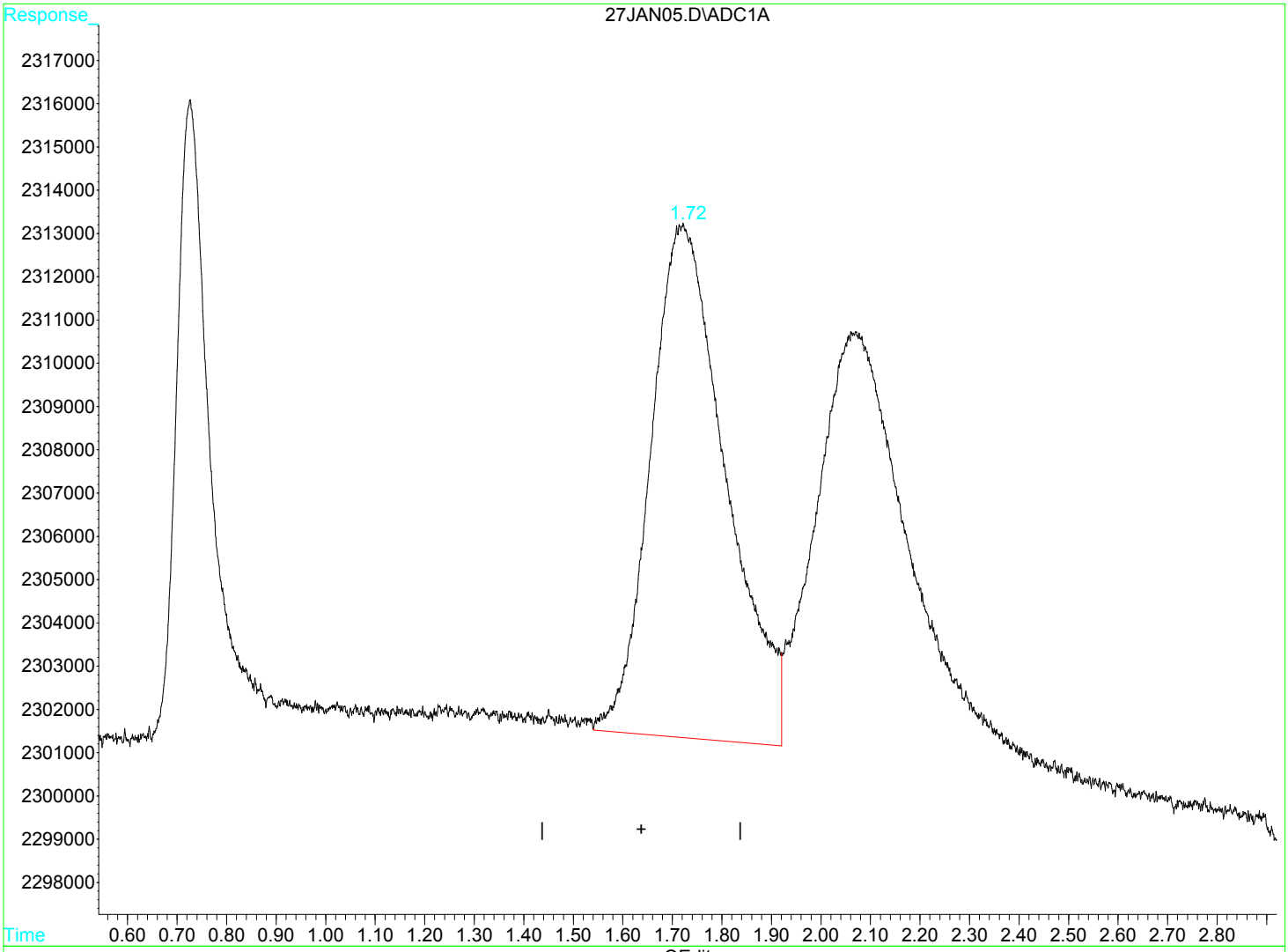
response 691757

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.72min 3.242ug/L

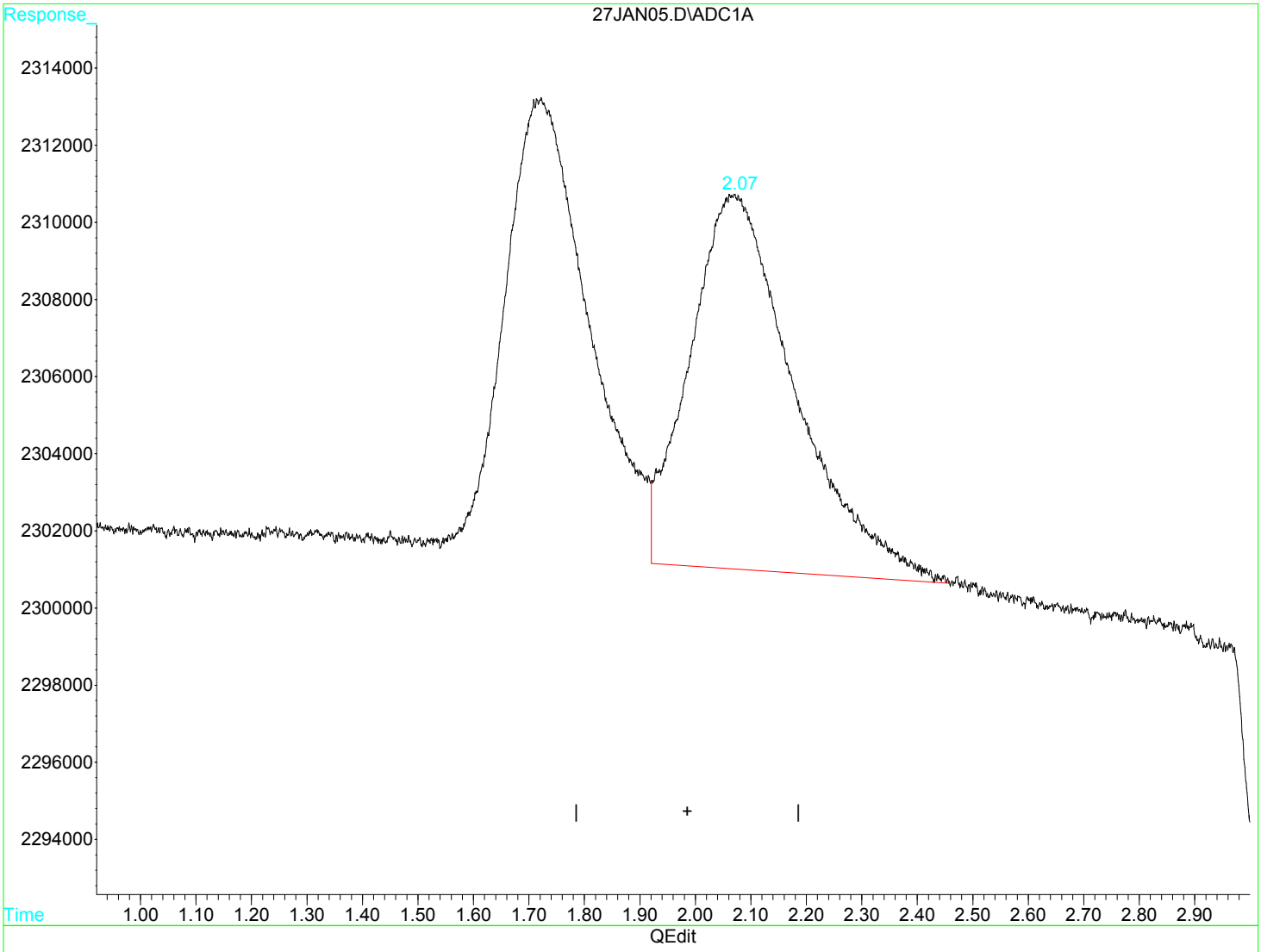
response 1251437

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.07min 2.218ug/L

response 1275089

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) m	Methane	0.73	7510447	12.8269	ug/L
2) m	Ethene	1.74f	12518403	32.4341	ug/L
3) m	Ethane	2.09f	14383928	25.0192	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

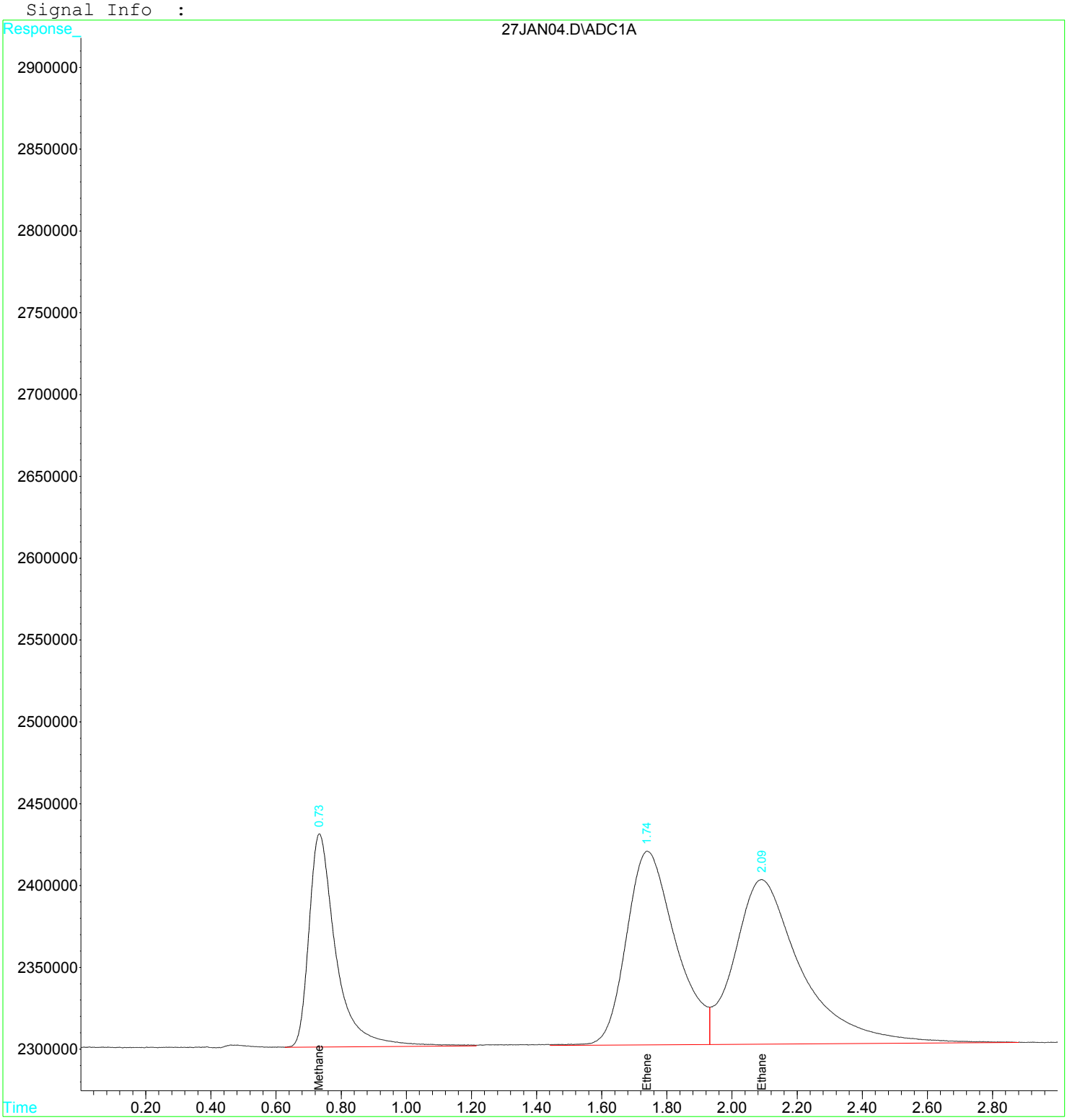
27JAN04.D RSK175.M Wed Feb 15 08:43:25 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

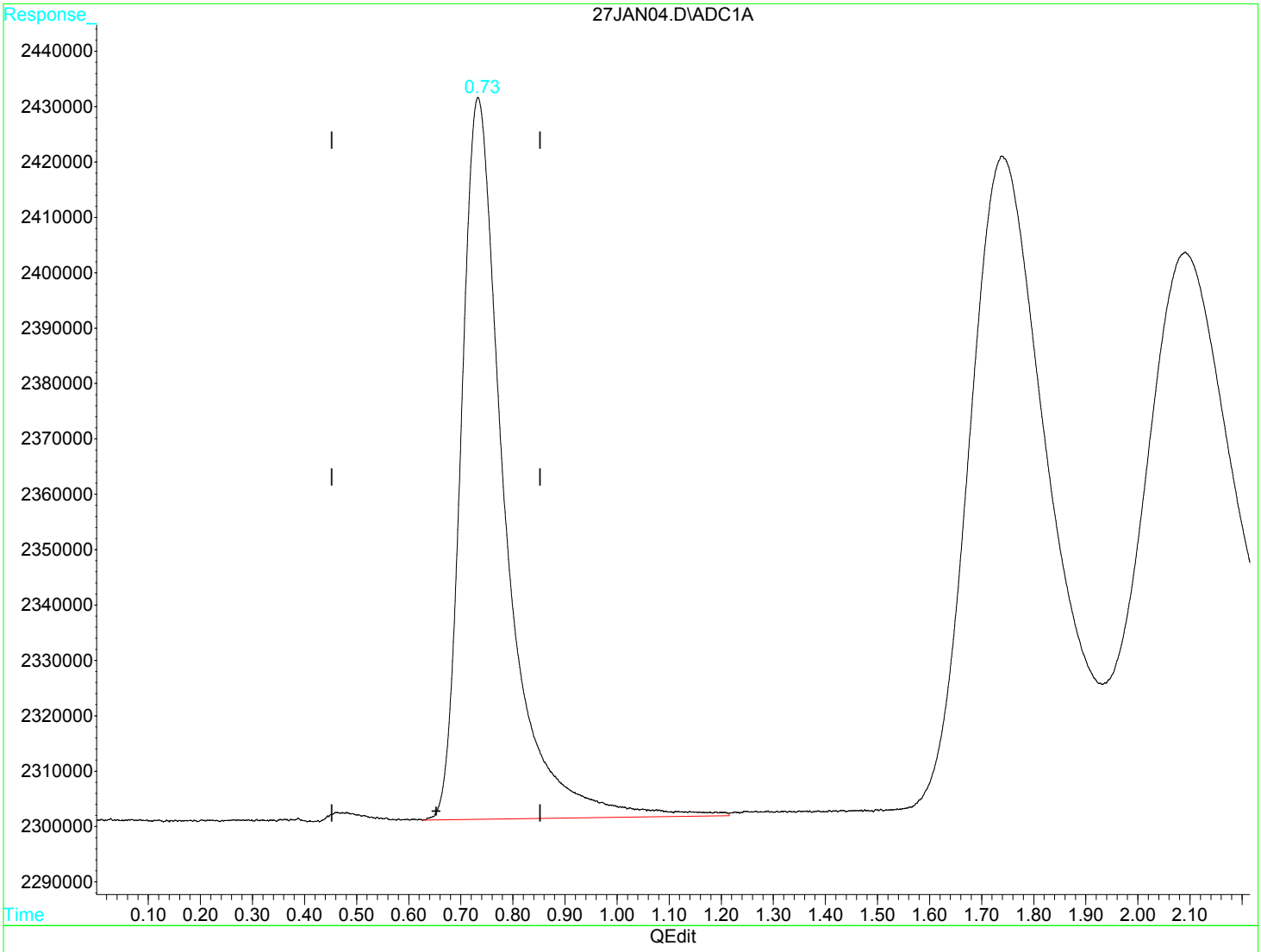
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 12.827ug/L

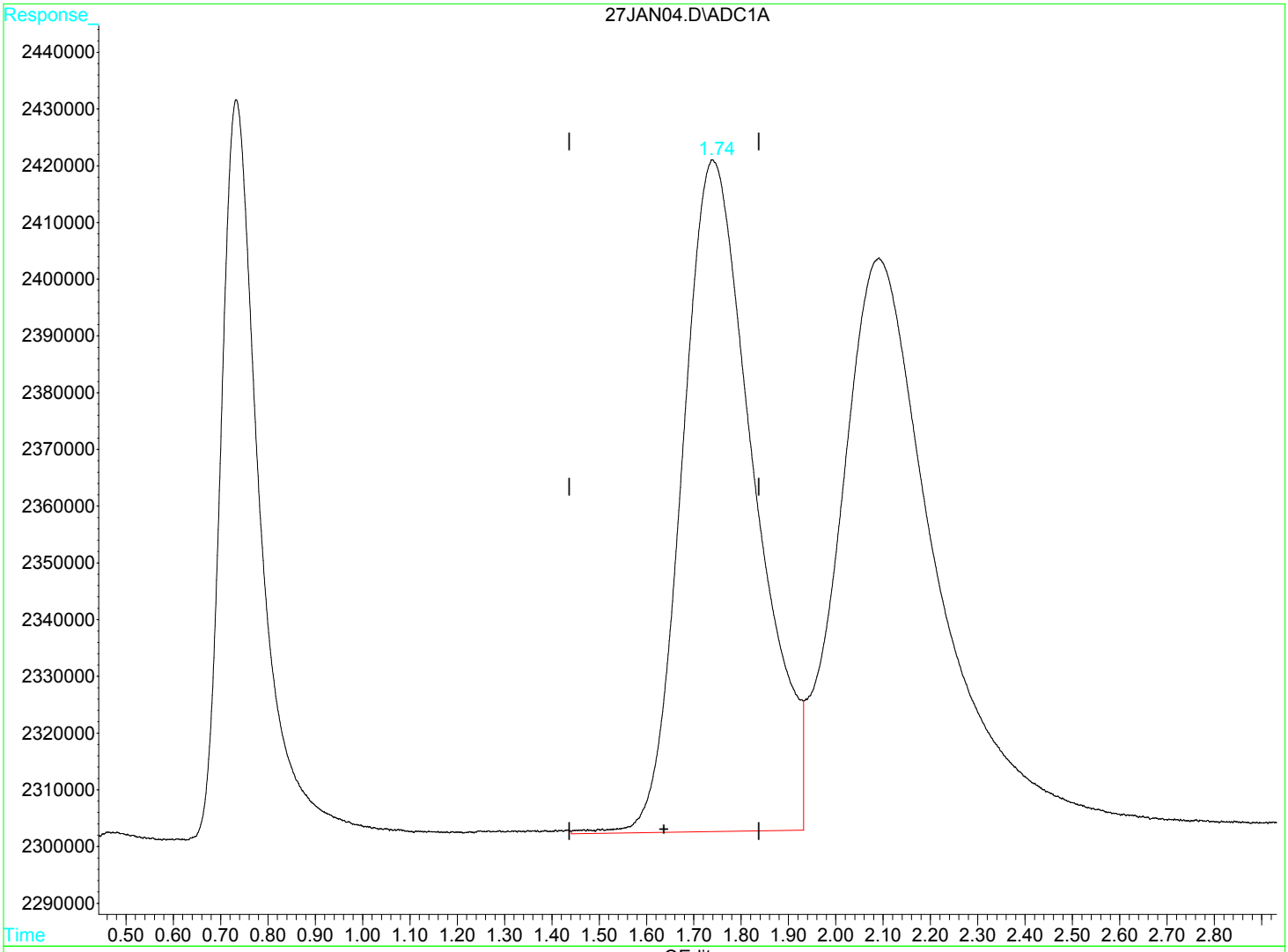
response 7510447

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 32.434ug/L

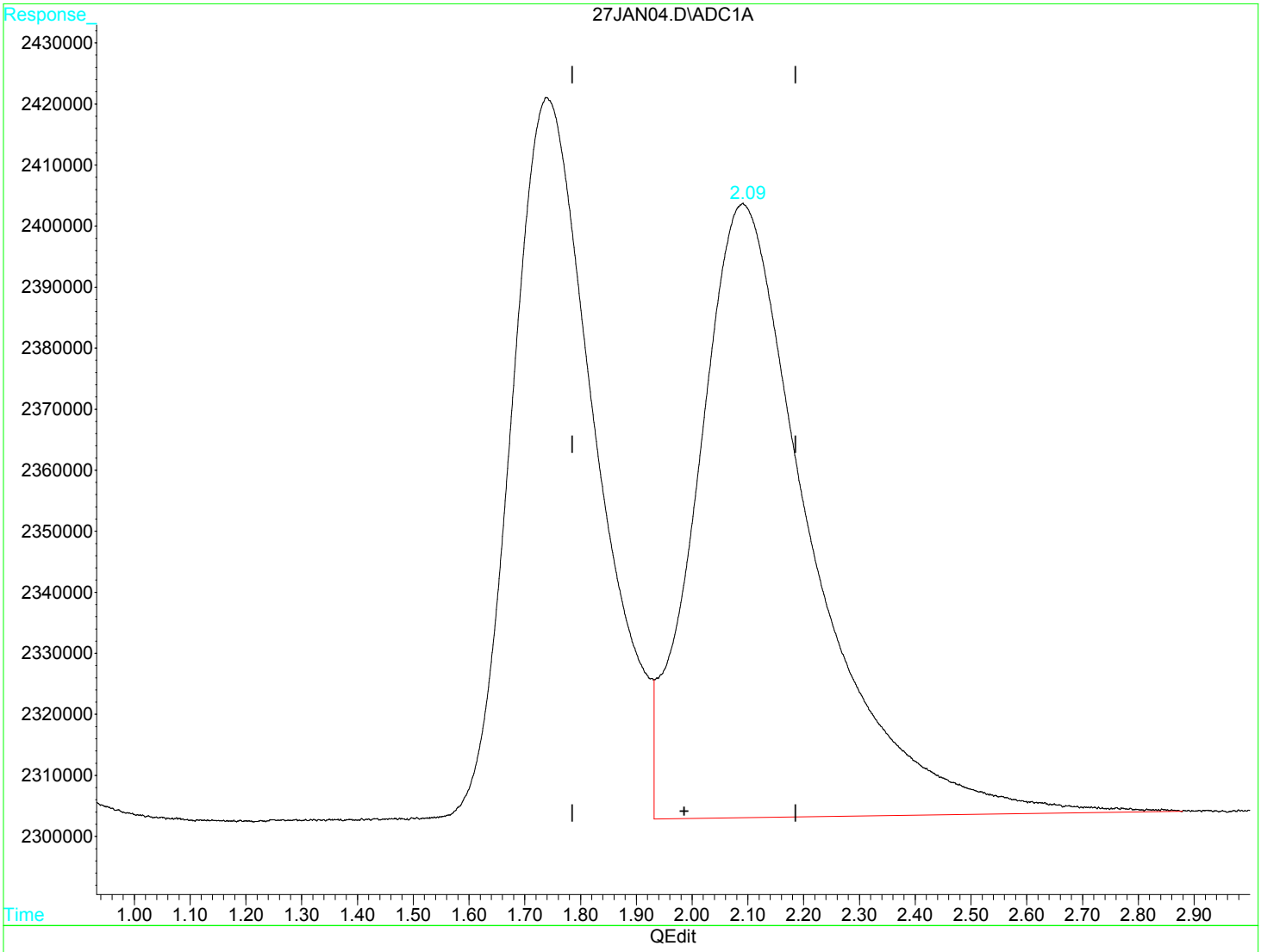
response 12518403

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.09min 25.019ug/L

response 14383928

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	53526843	91.4168	ug/L
2) m	Ethene	1.73	94904572	245.8892	ug/L
3) m	Ethane	2.08	108935077	189.4801	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

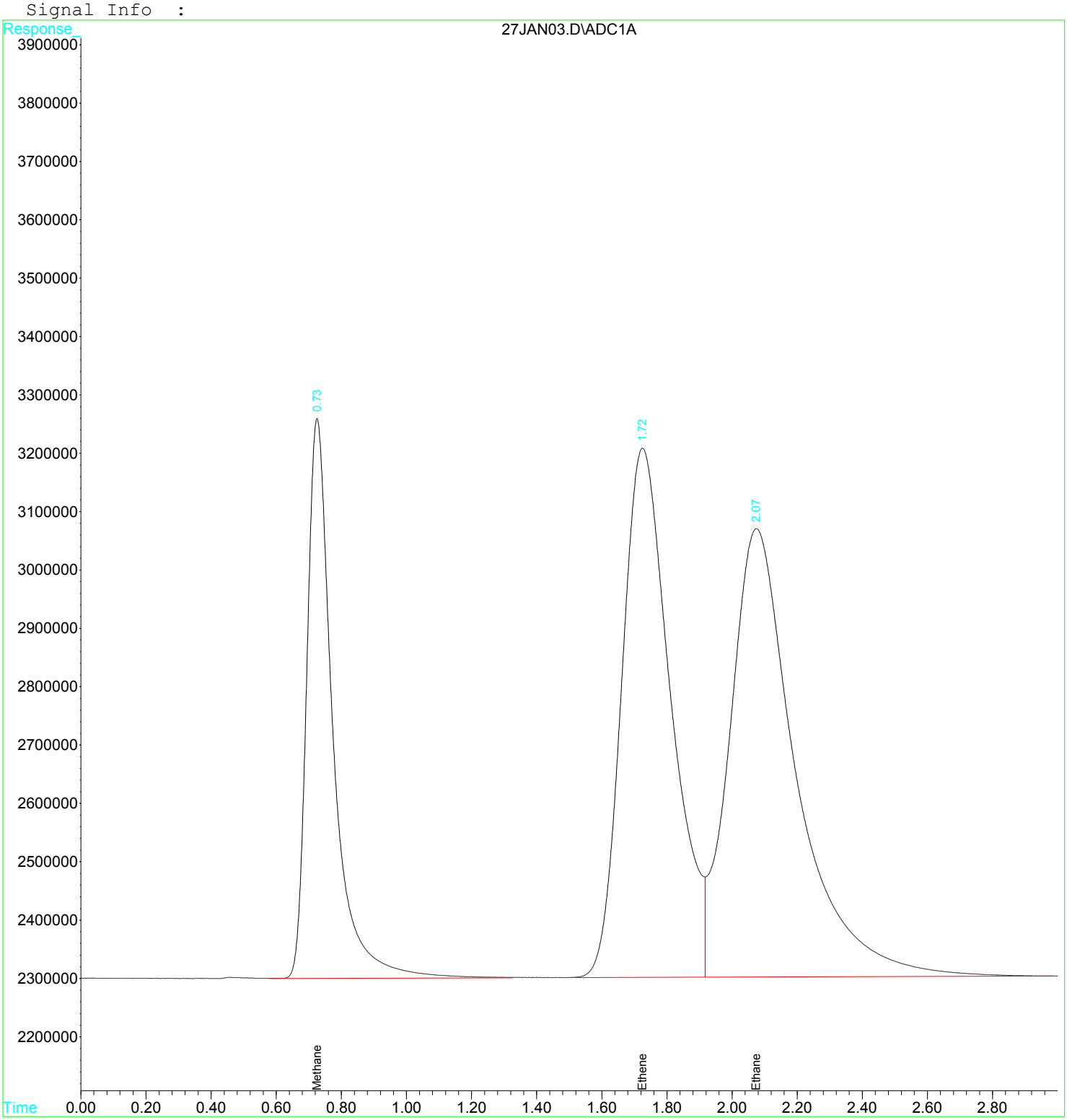
27JAN03.D RSK175.M Wed Feb 15 08:42:47 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

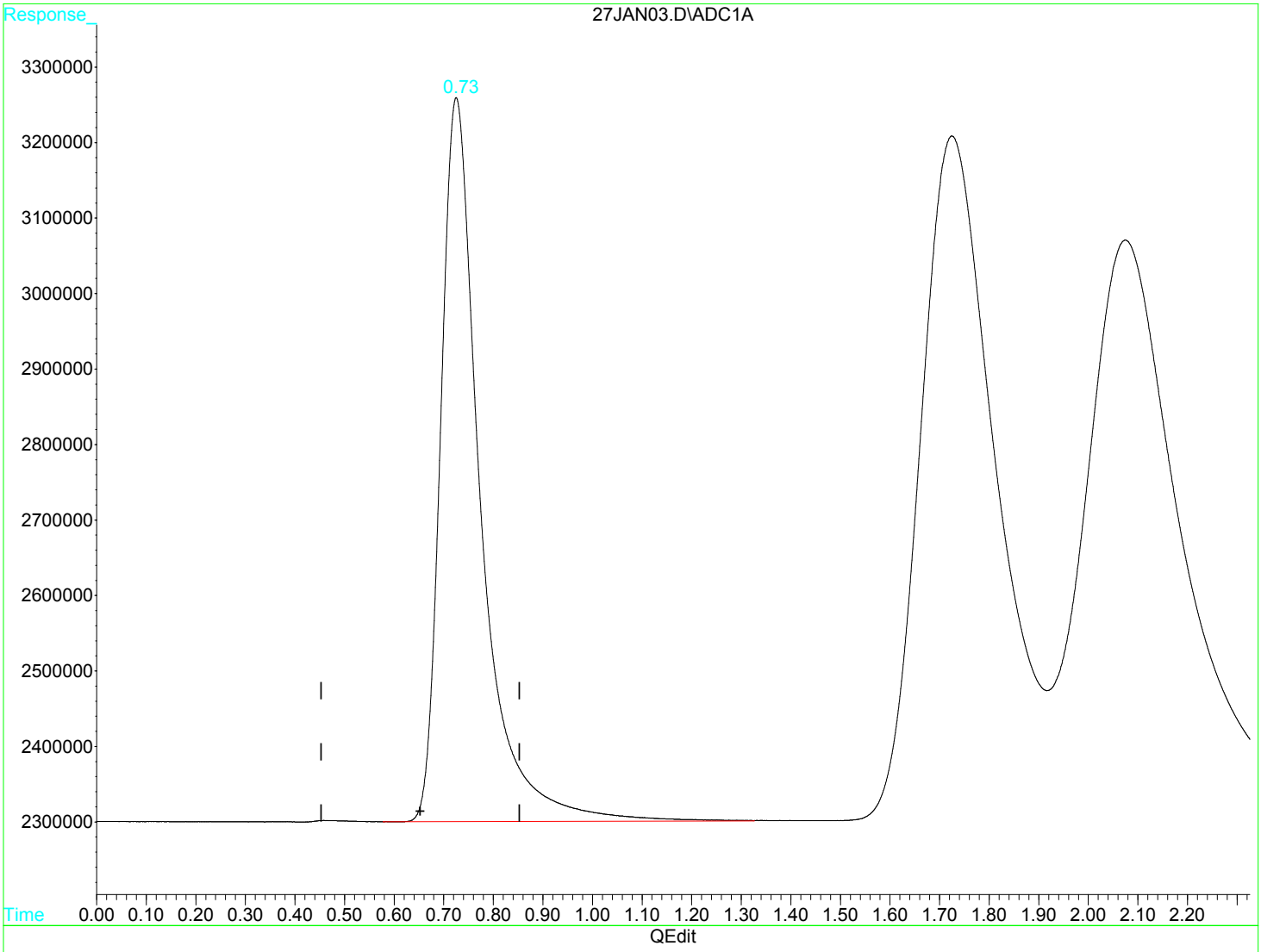
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 91.417ug/L

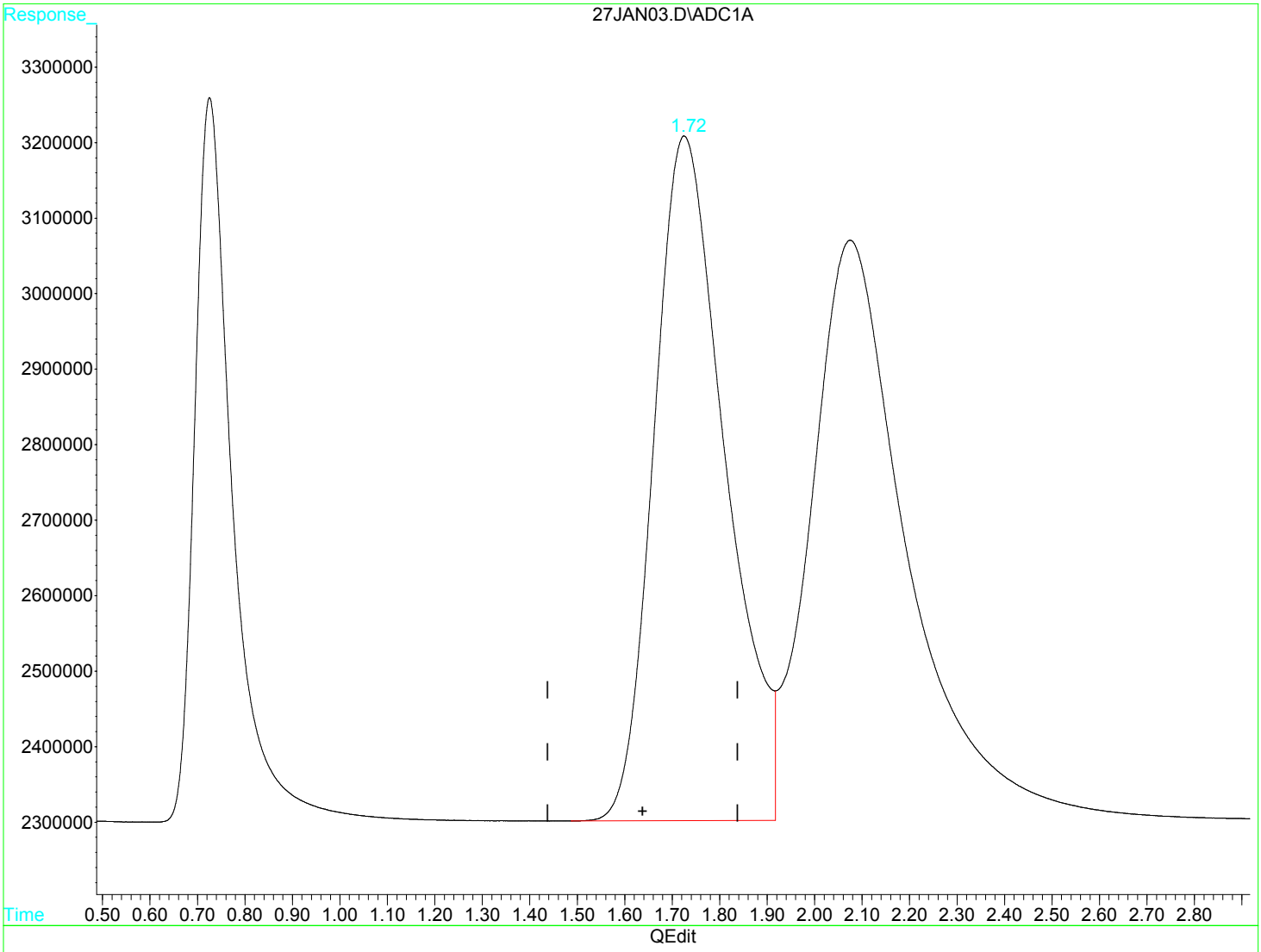
response 53526843

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 245.889ug/L

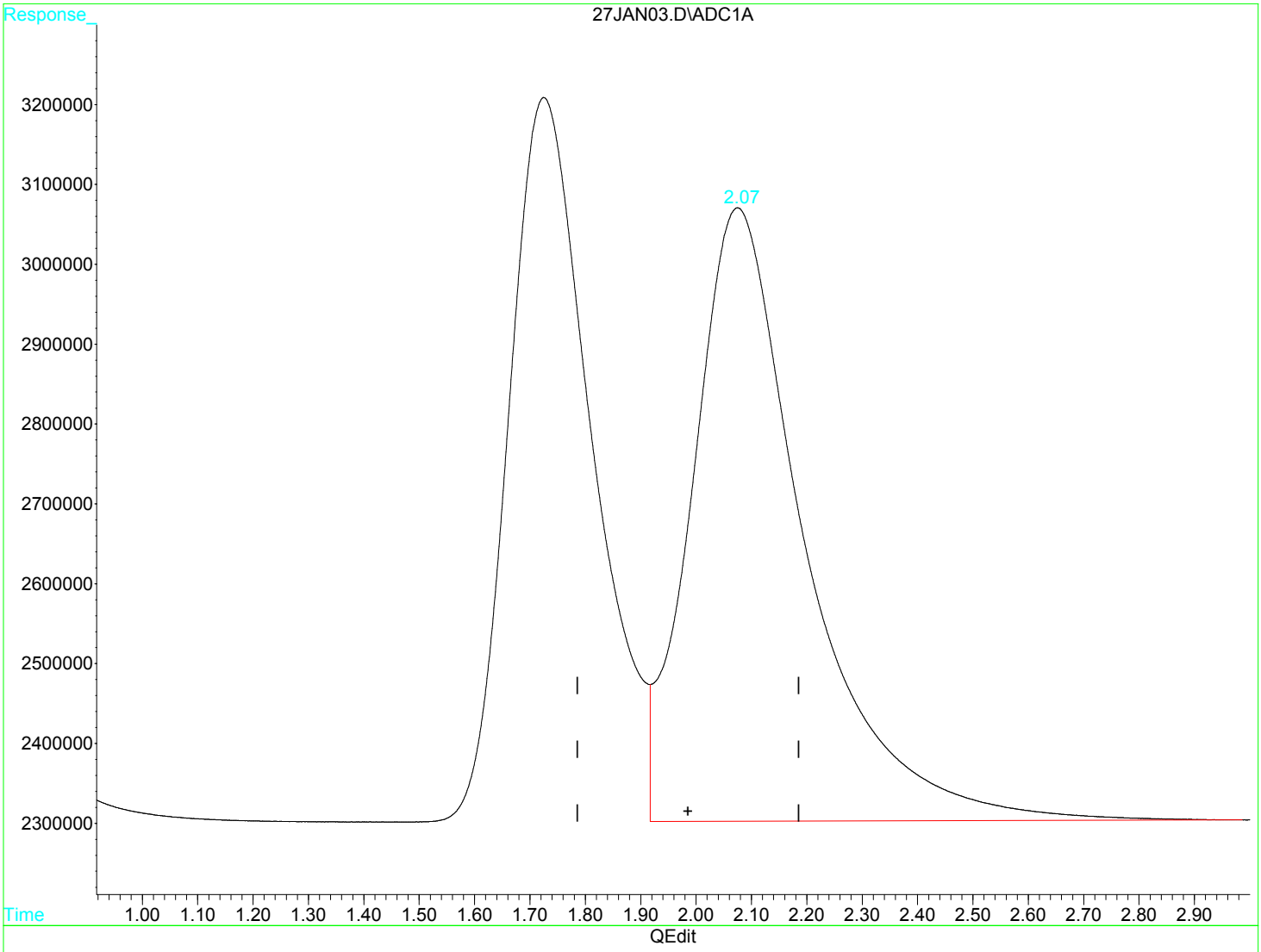
response 94904572

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 189.480ug/L

response 108935077

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	323602300	552.6703	ug/L
2) m	Ethene	1.74f	563612878	1460.2703	ug/L
3) m	Ethane	2.09f	624041169	1085.4482	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

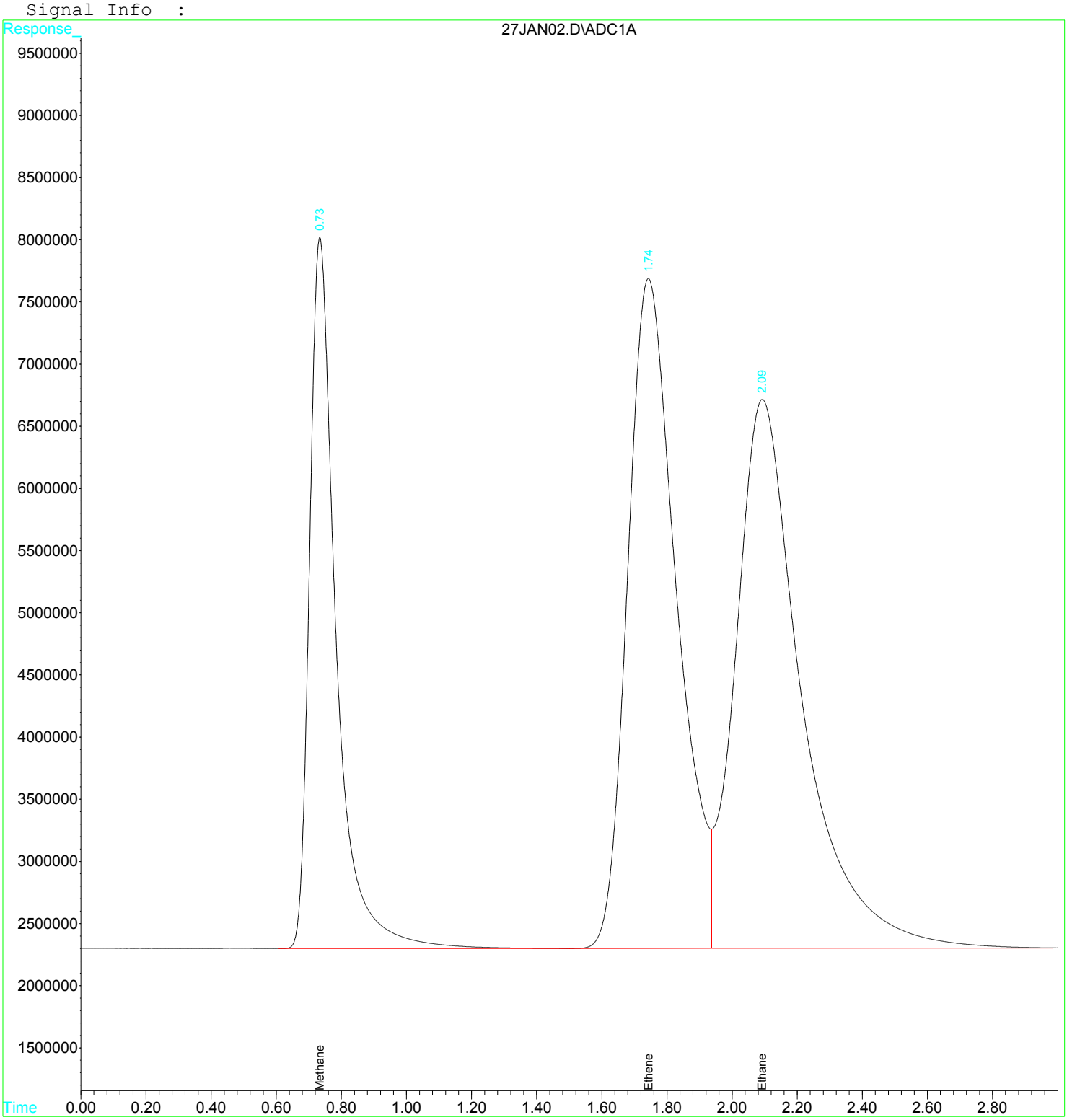
27JAN02.D RSK175.M Wed Feb 15 08:42:24 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

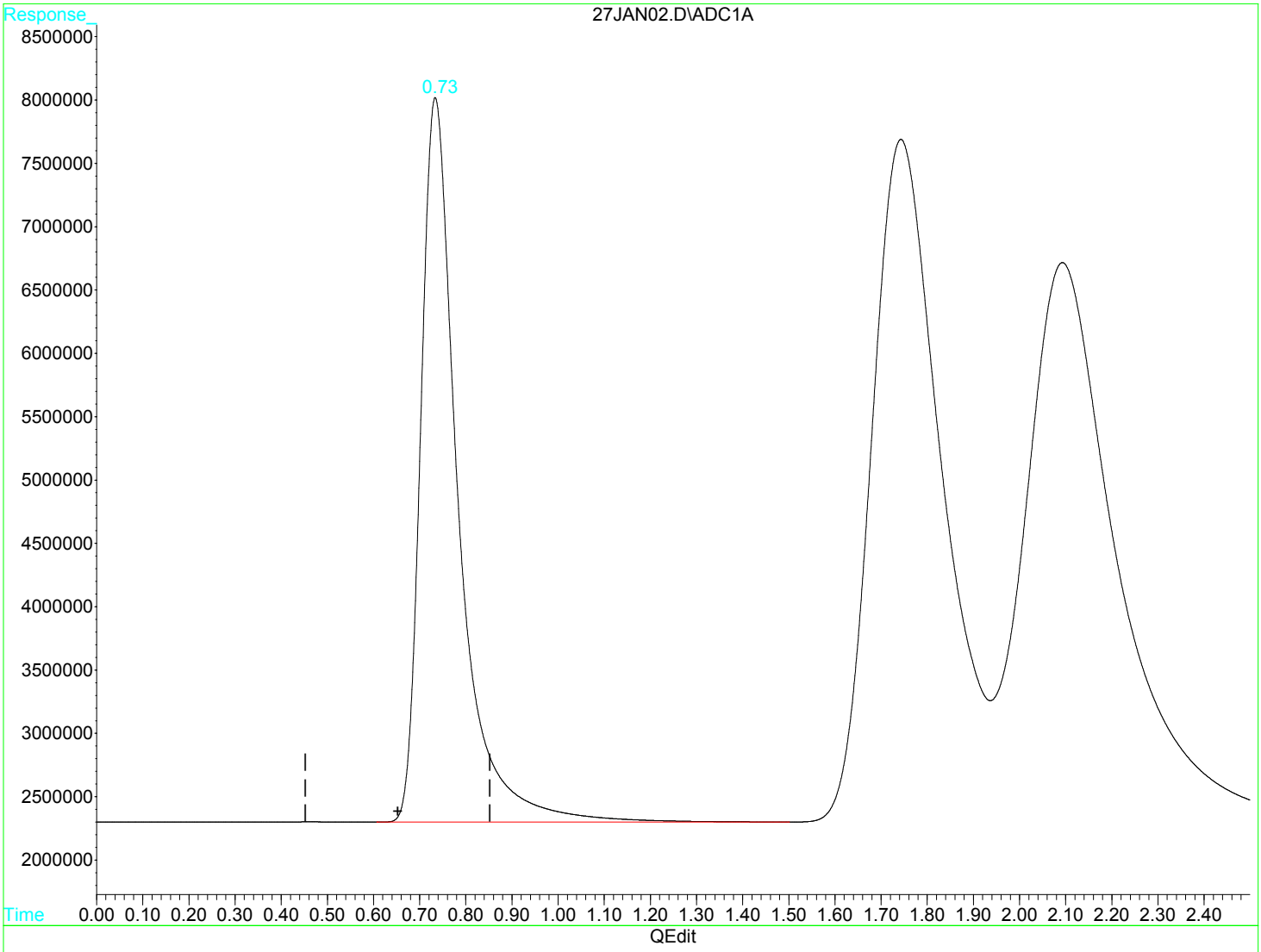
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 552.670ug/L

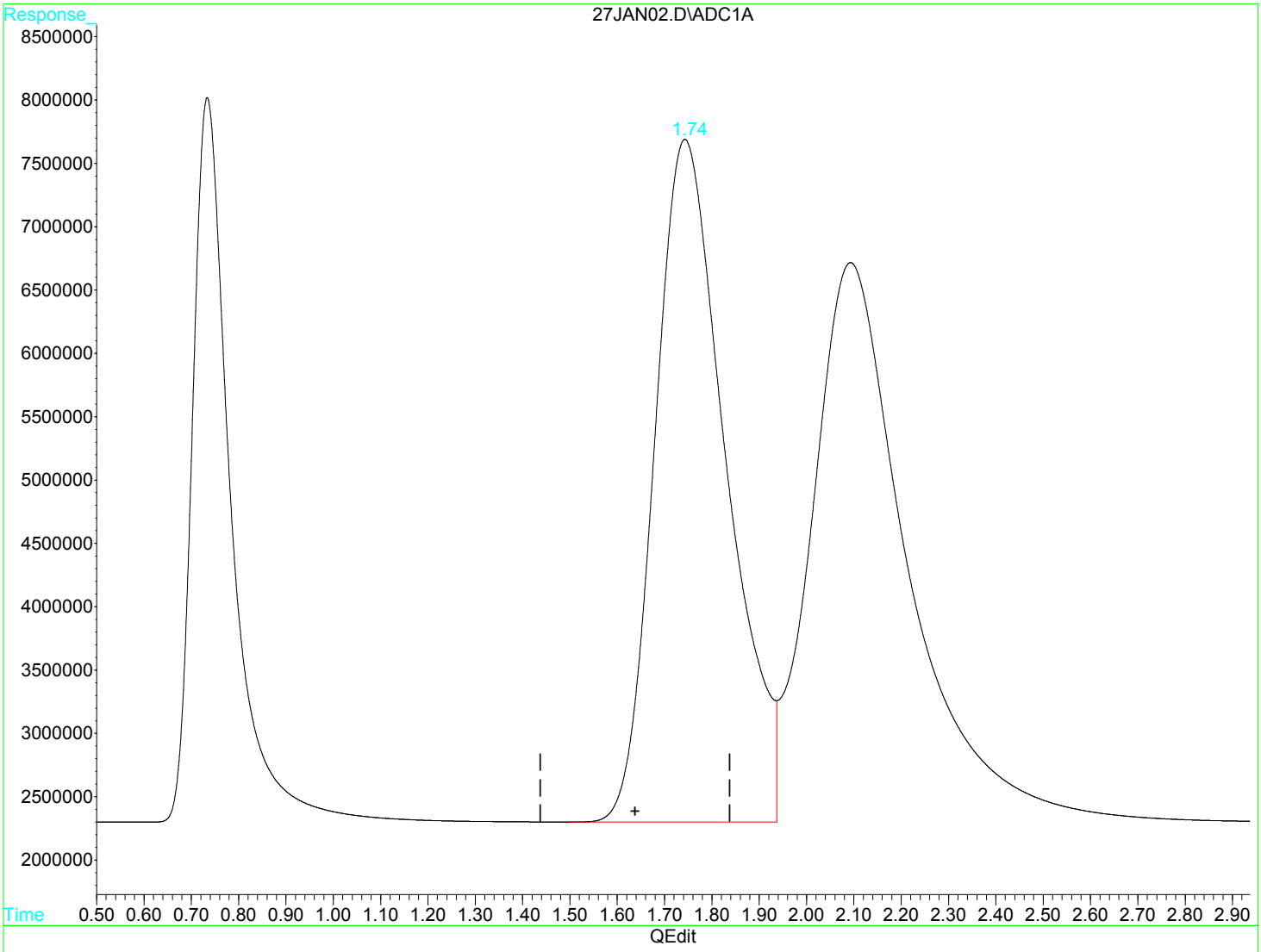
response 323602300

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 1460.270ug/L

response 563612878

(+) = Expected Retention Time

Raw Data - ICV

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1) m	Methane	0.74	7368524	12.1735 ug/L
2) m	Ethene	1.75	12806794	31.8199 ug/L
3) m	Ethane	2.10	14497414	24.9563 ug/L

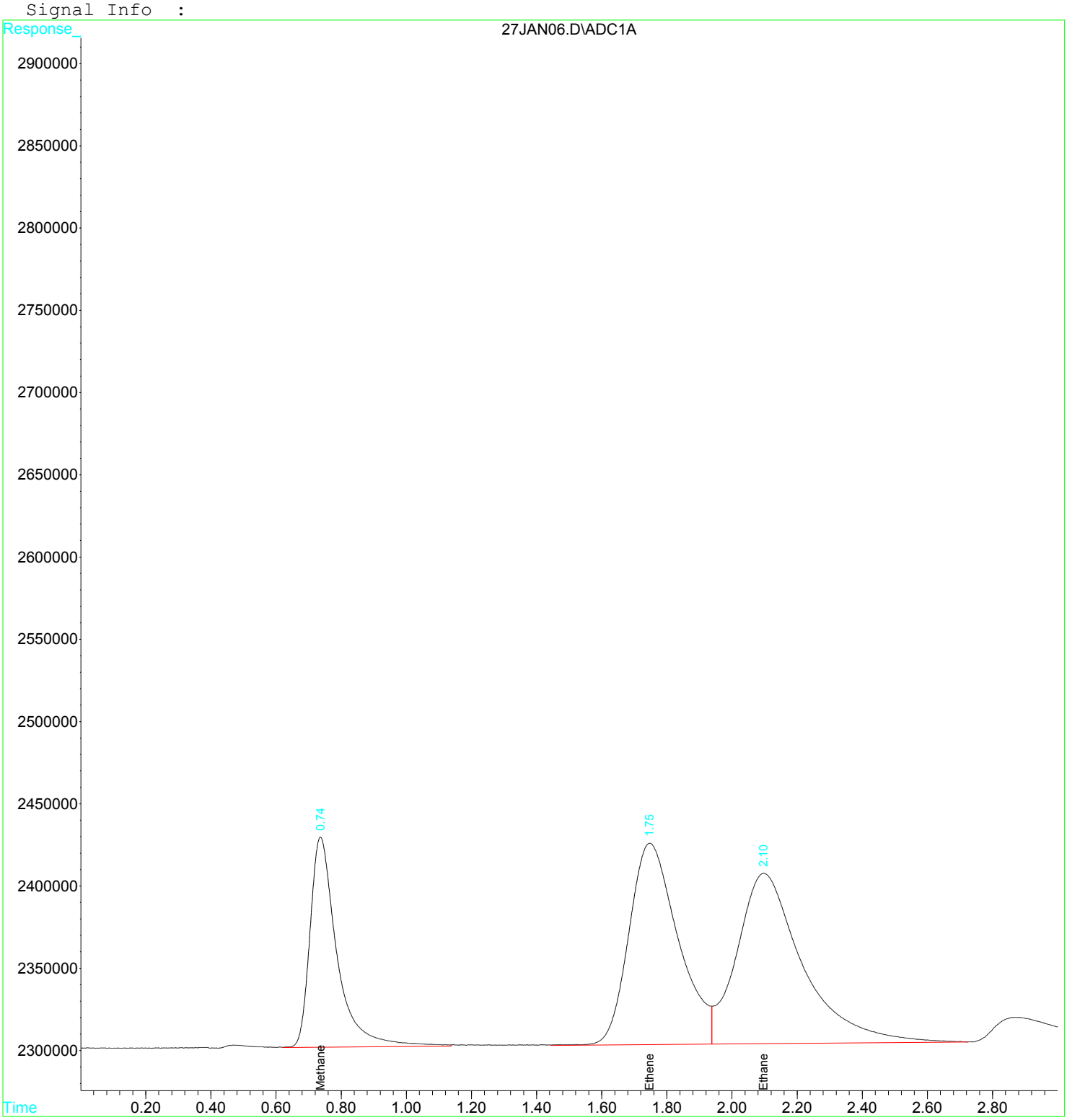
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

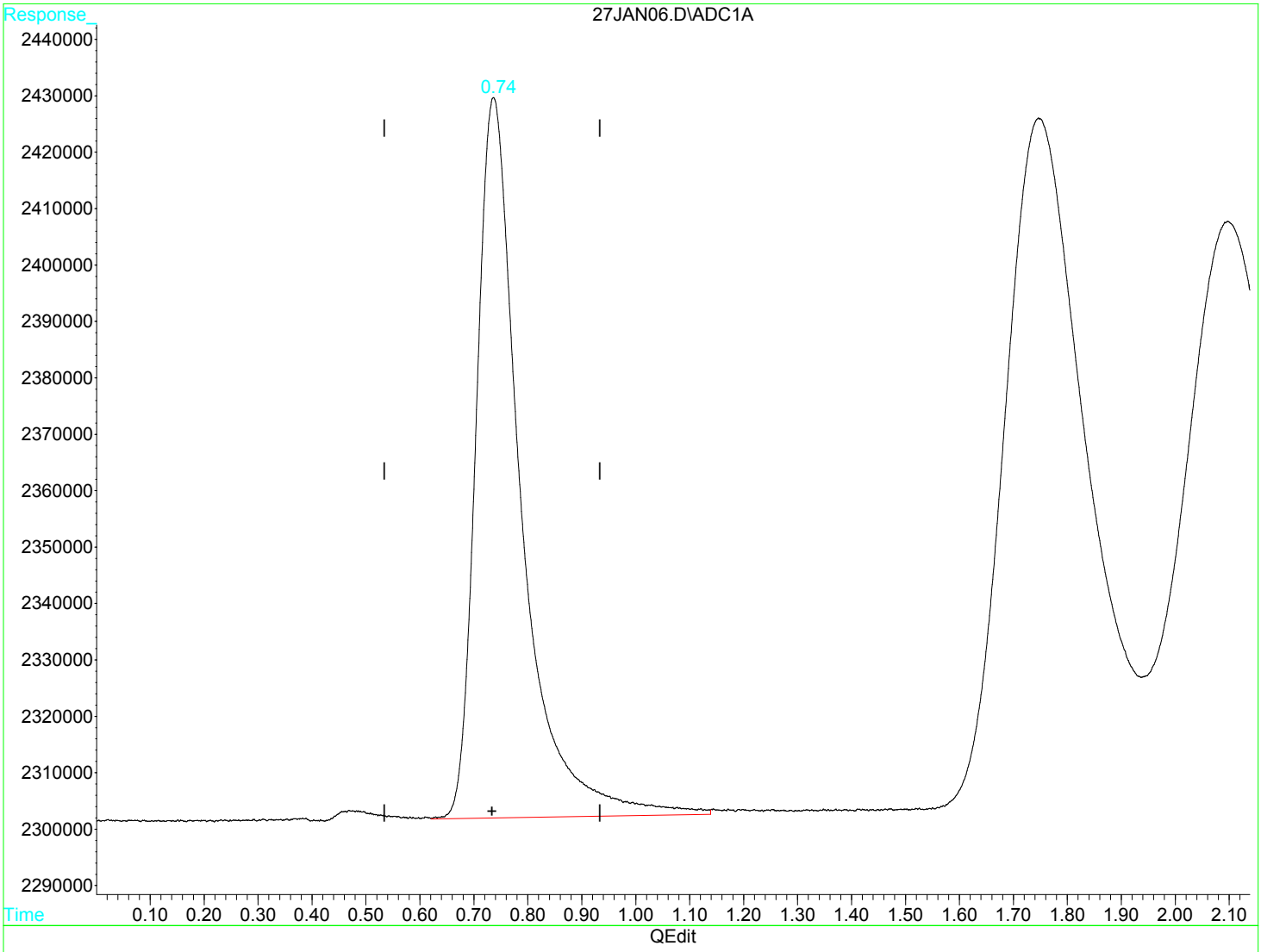
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 12.173ug/L

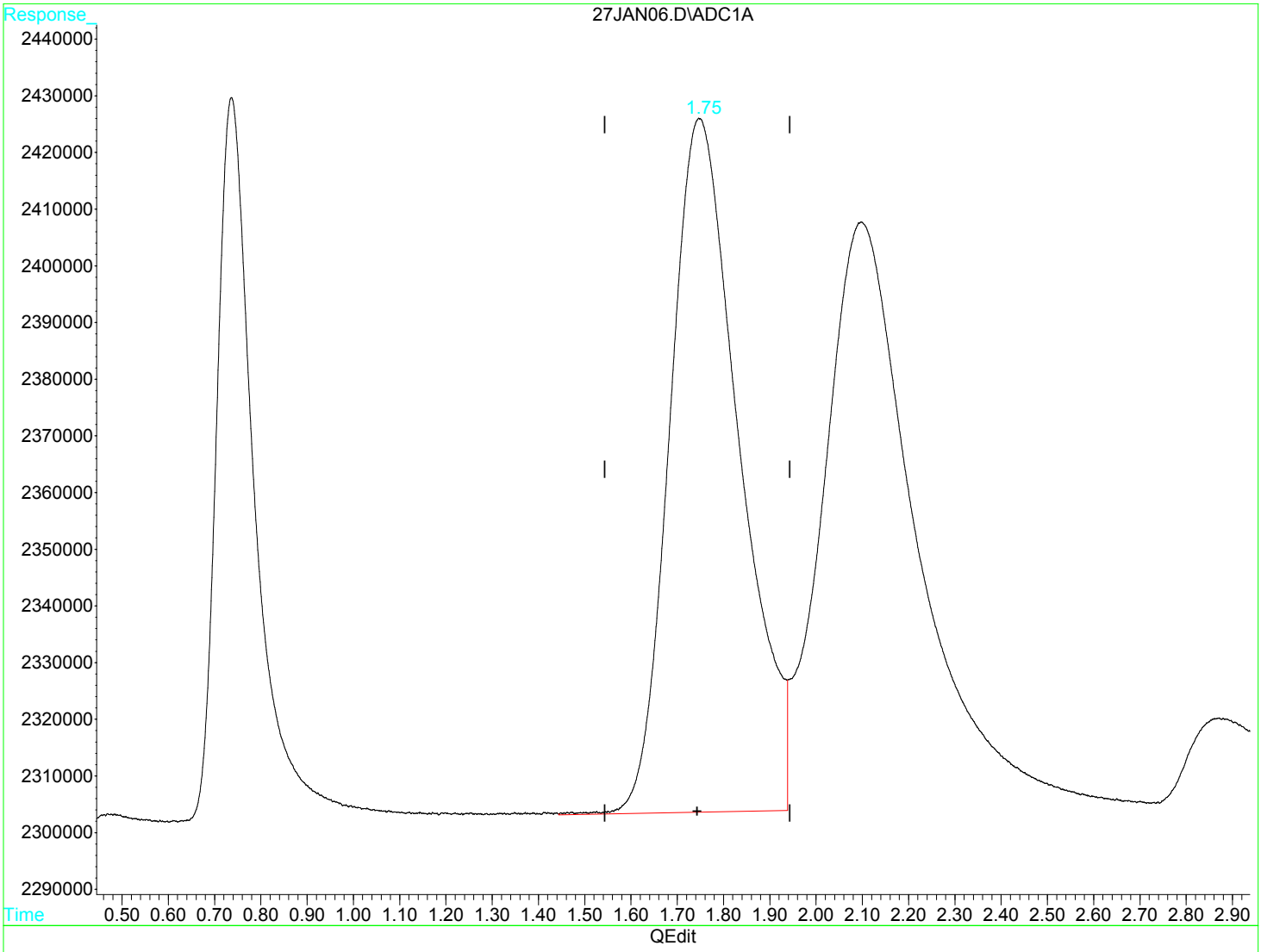
response 7368524

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.75min 31.820ug/L

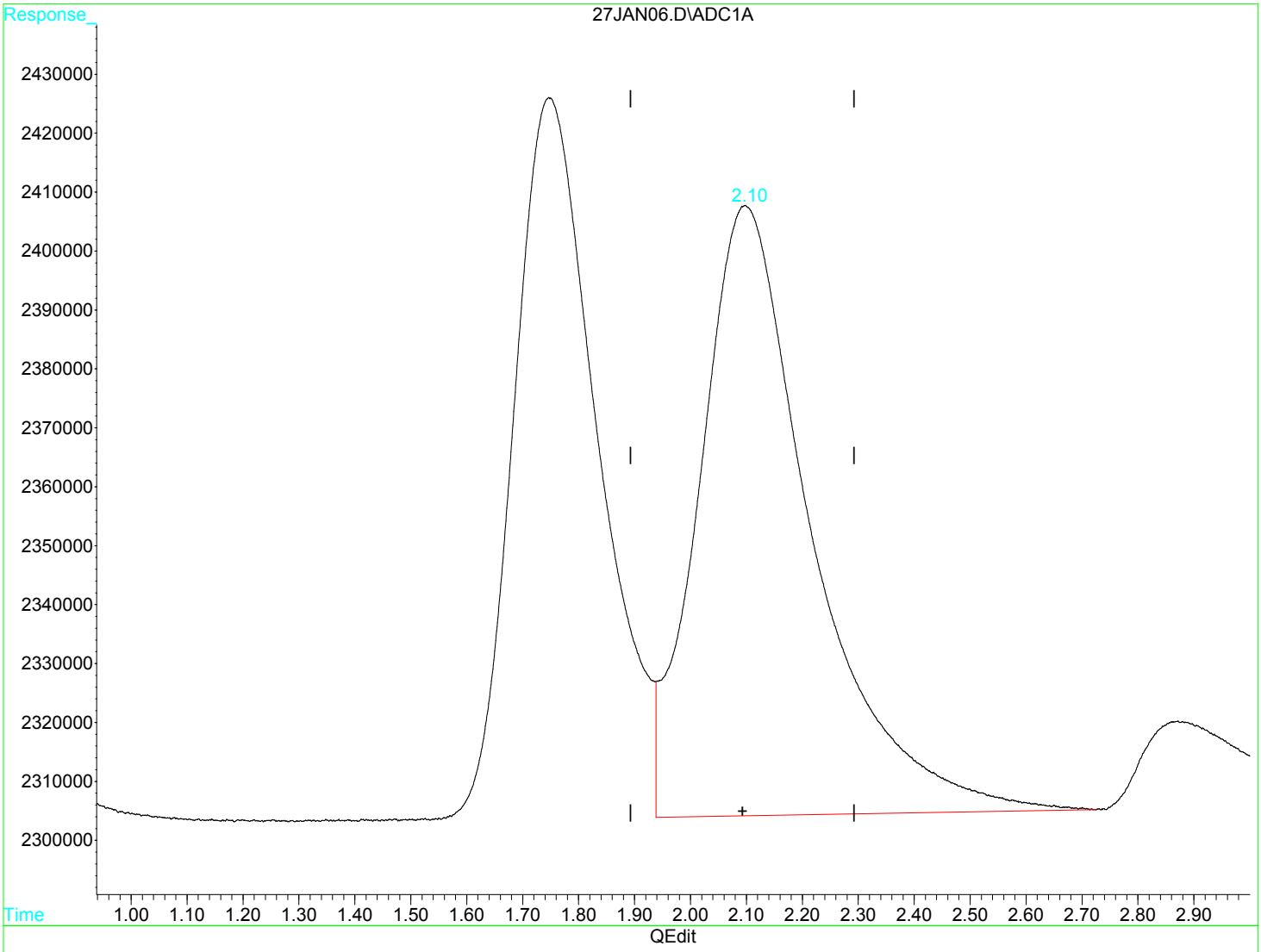
response 12806794

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.10min 24.956ug/L

response 14497414

(+) = Expected Retention Time

Raw Data - ICB

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN07.D Vial: 7
Acq On : 27 Jan 2017 8:45 am Operator: JH2
Sample : 1701454-ICB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:21 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	
3) m	Ethane	0.00	0	N.D.	ug/L	

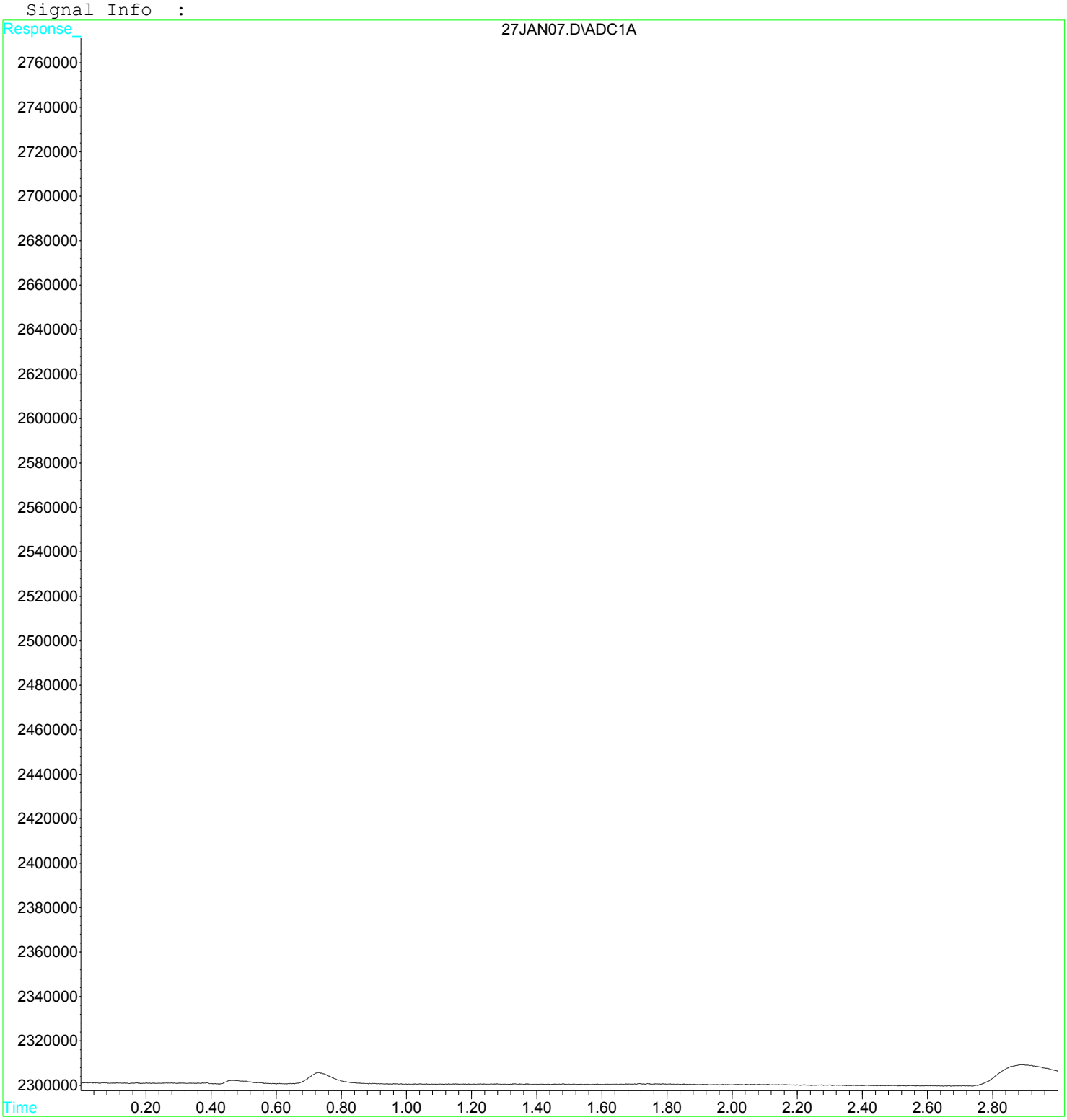
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN07.D Vial: 7
Acq On : 27 Jan 2017 8:45 am Operator: JH2
Sample : 1701454-ICB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:21 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - CCV

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY02.D Vial: 2
Acq On : 12 May 2017 8:57 am Operator: JH2
Sample : 1708354-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.72	7323271	12.0987 ug/L
2) m Ethene	1.71	10854714	26.9697 ug/L
3) m Ethane	2.06	13353389	22.9869 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

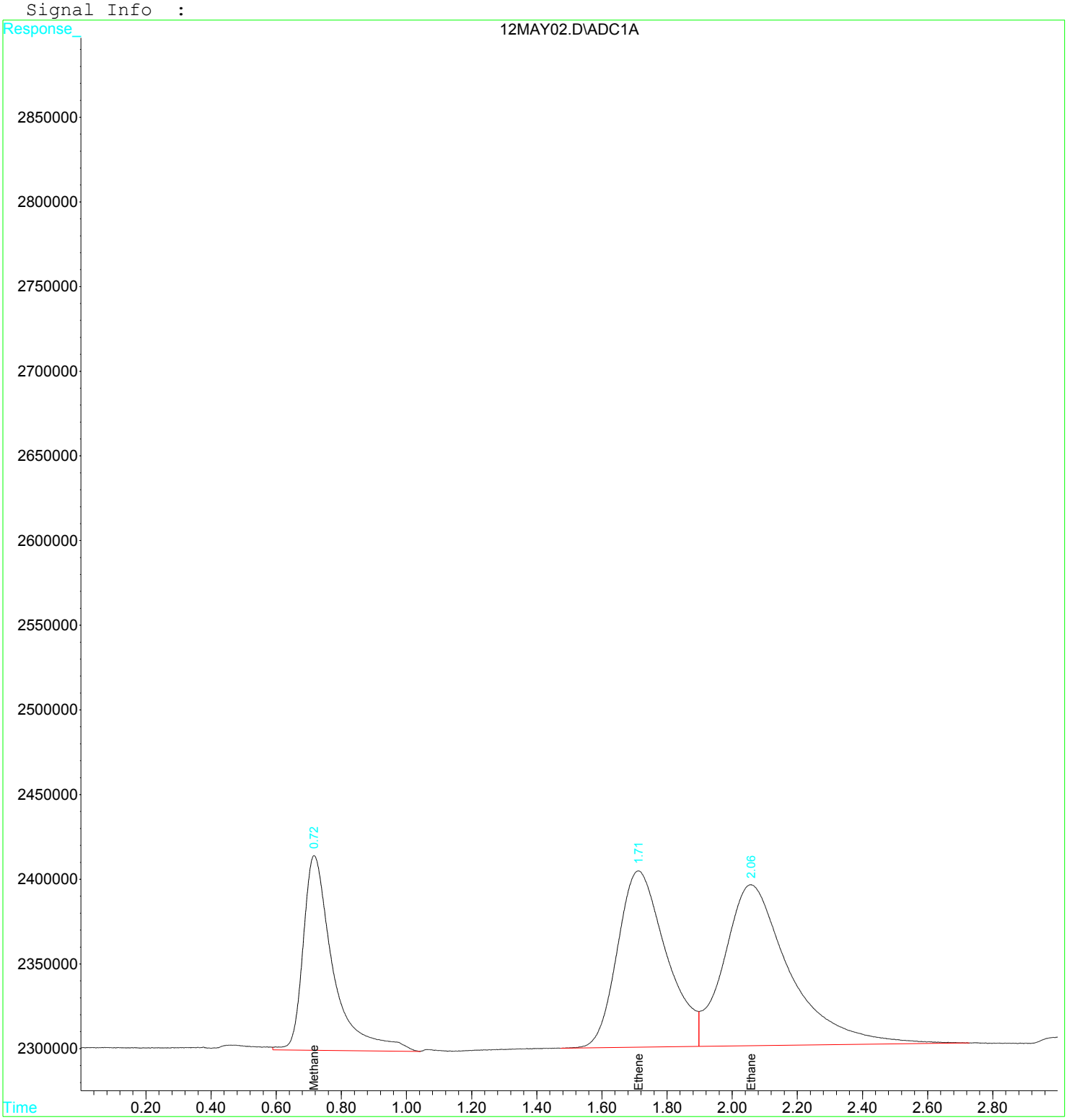
12MAY02.D RSK175.M Fri May 12 10:37:17 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY02.D Vial: 2
Acq On : 12 May 2017 8:57 am Operator: JH2
Sample : 1708354-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

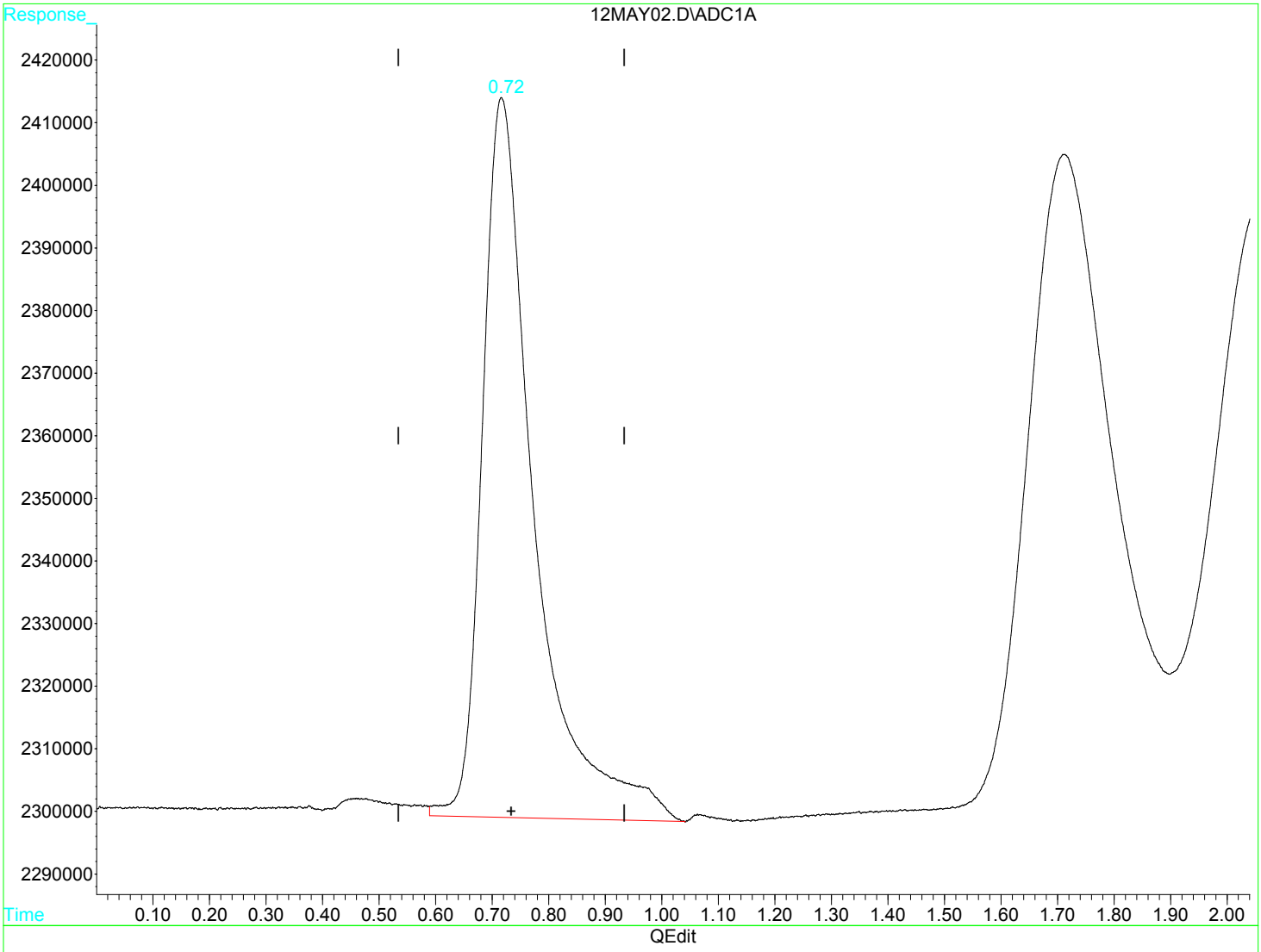
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY02.D Vial: 2
Acq On : 12 May 2017 8:57 am Operator: JH2
Sample : 1708354-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 12.099ug/L

response 7323271

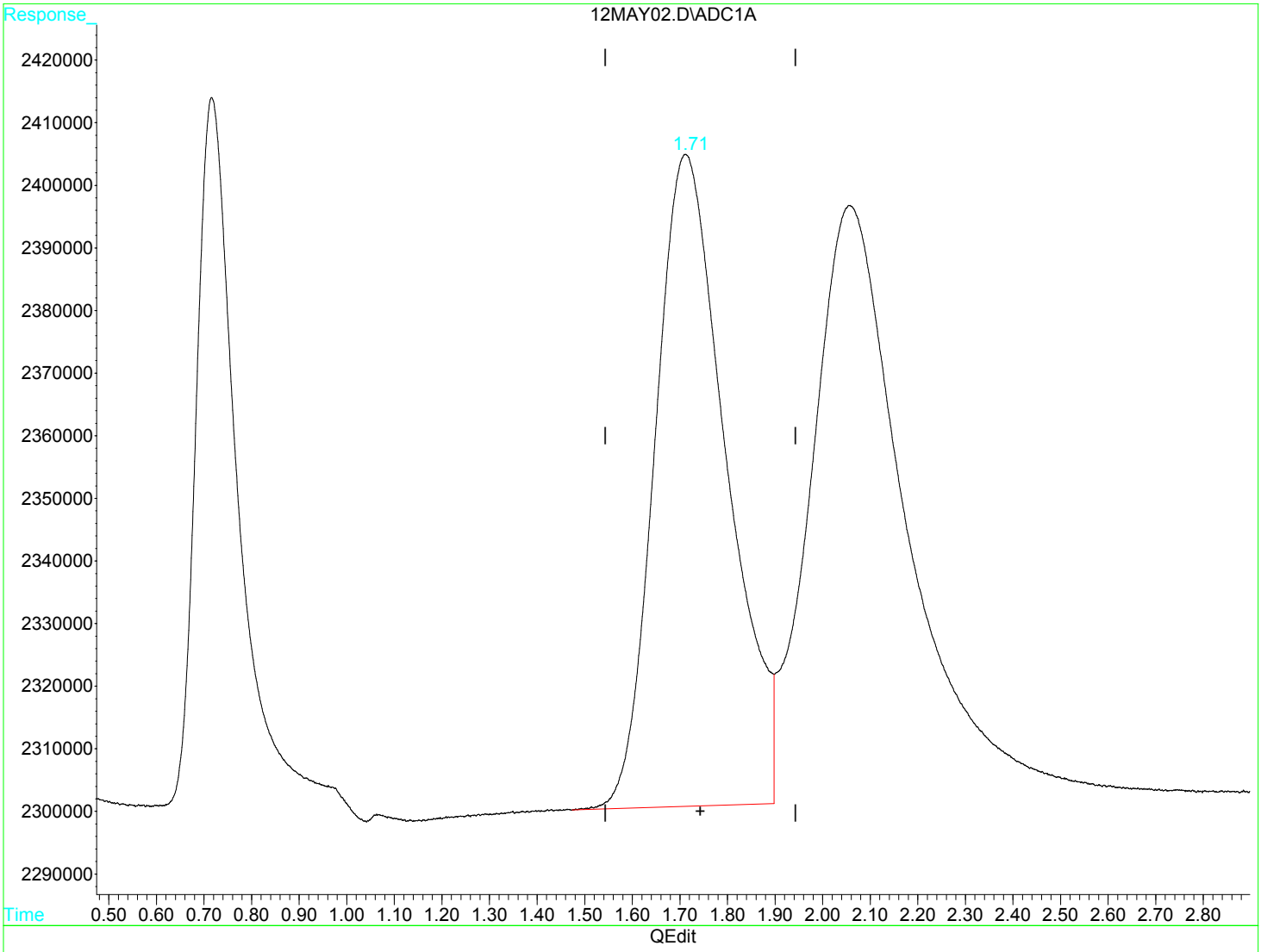
(+) = Expected Retention Time

12MAY02.D RSK175.M Fri May 12 10:37:01 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY02.D Vial: 2
Acq On : 12 May 2017 8:57 am Operator: JH2
Sample : 1708354-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.71min 26.970ug/L

response 10854714

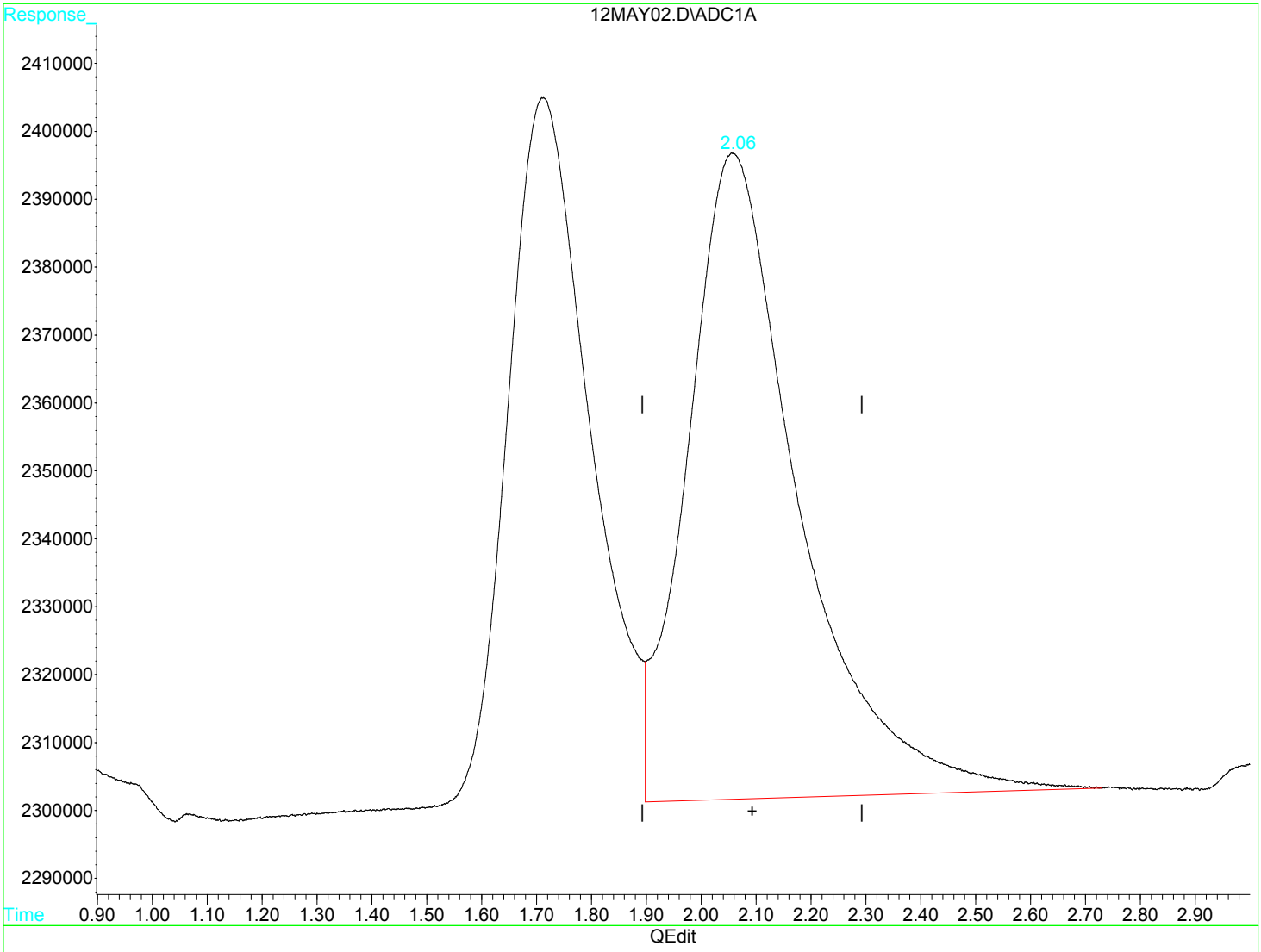
(+) = Expected Retention Time

12MAY02.D RSK175.M Fri May 12 10:37:05 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY02.D Vial: 2
Acq On : 12 May 2017 8:57 am Operator: JH2
Sample : 1708354-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.06min 22.987ug/L

response 13353389

(+) = Expected Retention Time

12MAY02.D RSK175.M Fri May 12 10:37:09 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY07.D Vial: 7
Acq On : 12 May 2017 9:21 am Operator: JH2
Sample : 1708354-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:24 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.72	6297741	10.4045	ug/L
2) m	Ethene	1.71	12667018	31.4726	ug/L
3) m	Ethane	2.06	13707576	23.5966	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

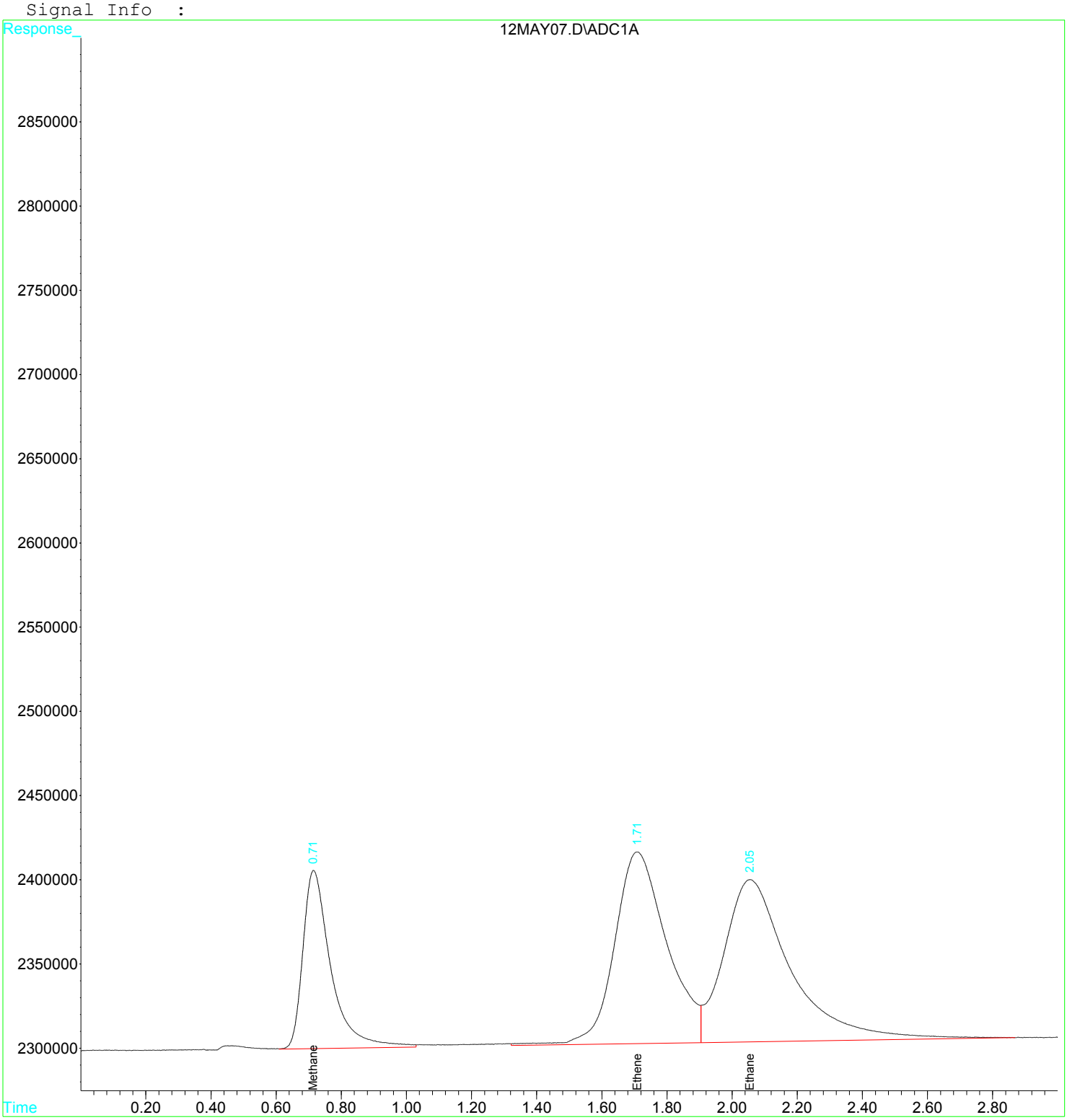
12MAY07.D RSK175.M Fri May 12 10:59:56 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY07.D Vial: 7
Acq On : 12 May 2017 9:21 am Operator: JH2
Sample : 1708354-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:24 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

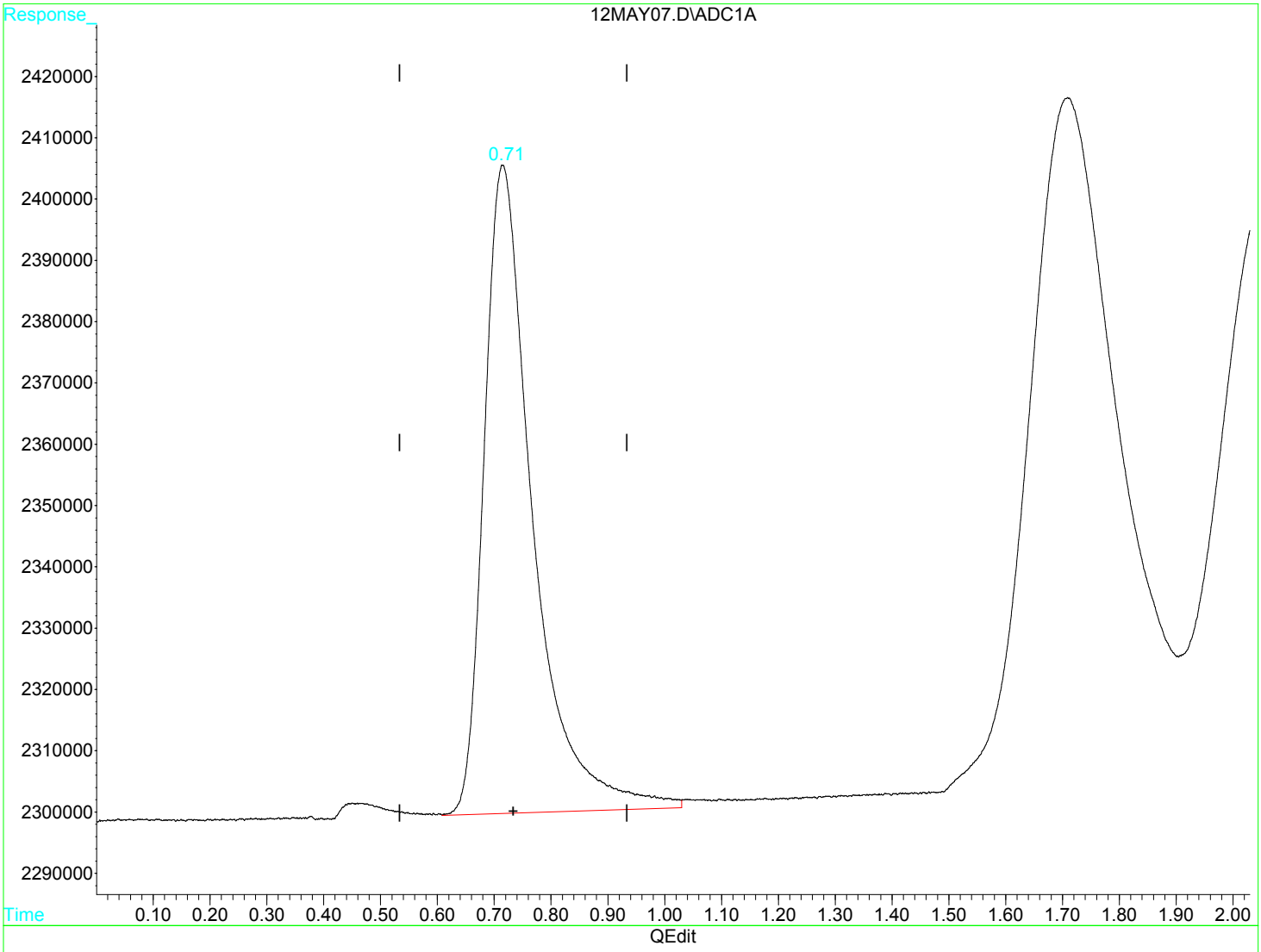
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY07.D Vial: 7
Acq On : 12 May 2017 9:21 am Operator: JH2
Sample : 1708354-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:24 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 10.404ug/L

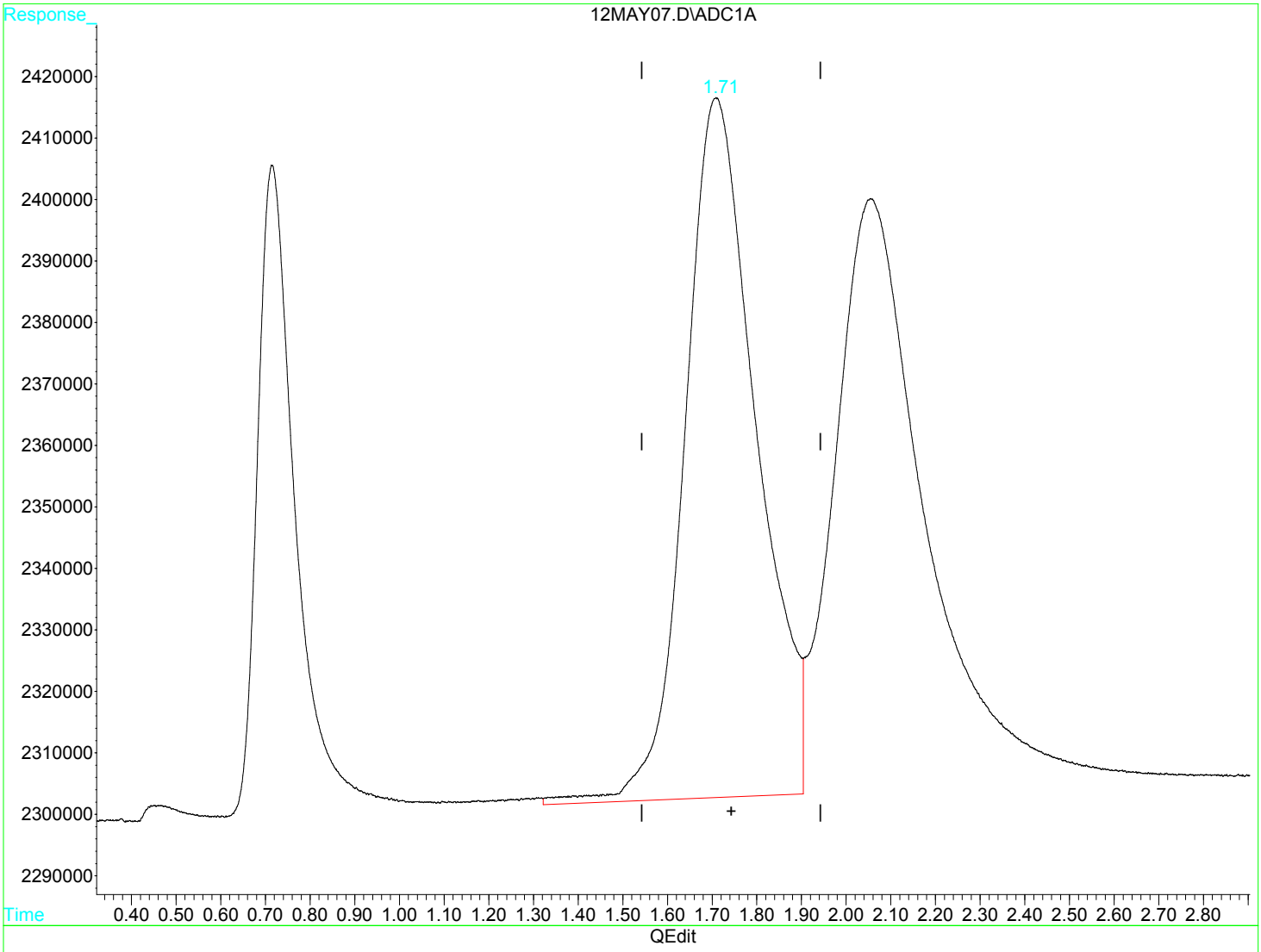
response 6297741

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY07.D Vial: 7
Acq On : 12 May 2017 9:21 am Operator: JH2
Sample : 1708354-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:24 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.71min 31.473ug/L

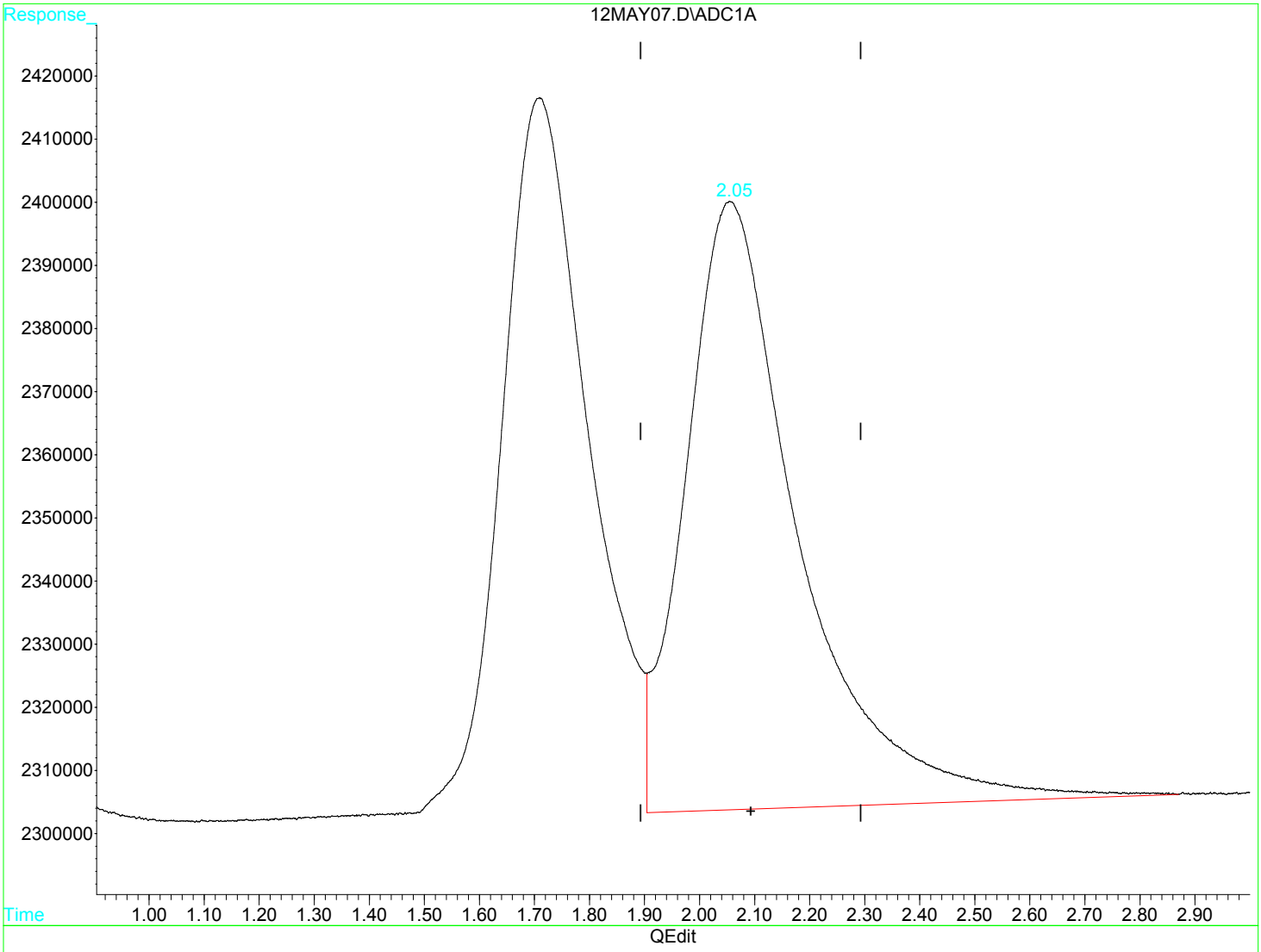
response 12667018

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY07.D Vial: 7
Acq On : 12 May 2017 9:21 am Operator: JH2
Sample : 1708354-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:24 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.06min 23.597ug/L

response 13707576

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY18.D Vial: 18
Acq On : 12 May 2017 10:20 am Operator: JH2
Sample : 1708354-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.69	7246322	11.9716	ug/L	m
2) m	Ethene	1.68	11291434	28.0548	ug/L	
3) m	Ethane	2.02	14031119	24.1536	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int

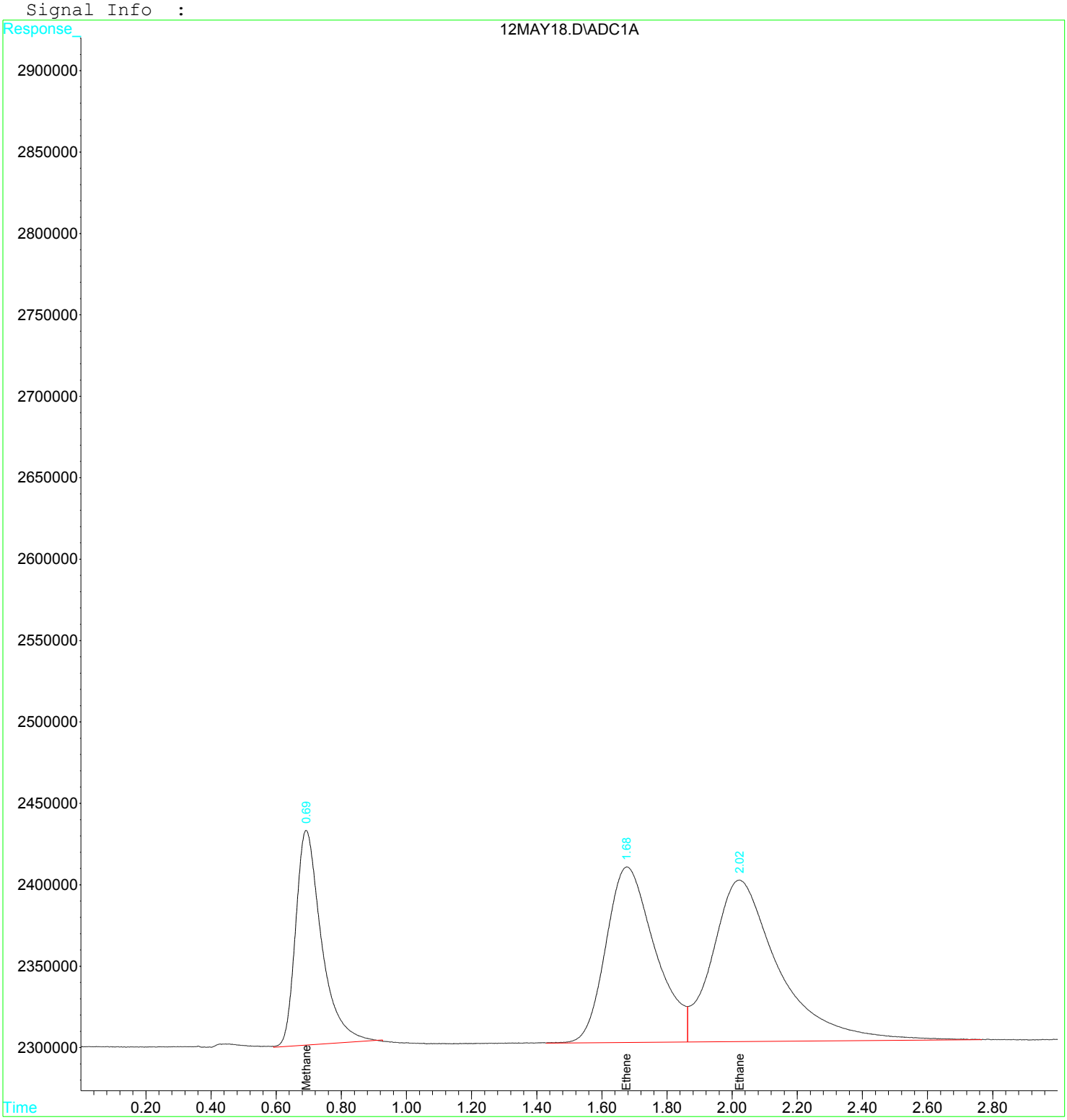
12MAY18.D RSK175.M Fri May 12 11:13:46 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY18.D Vial: 18
Acq On : 12 May 2017 10:20 am Operator: JH2
Sample : 1708354-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

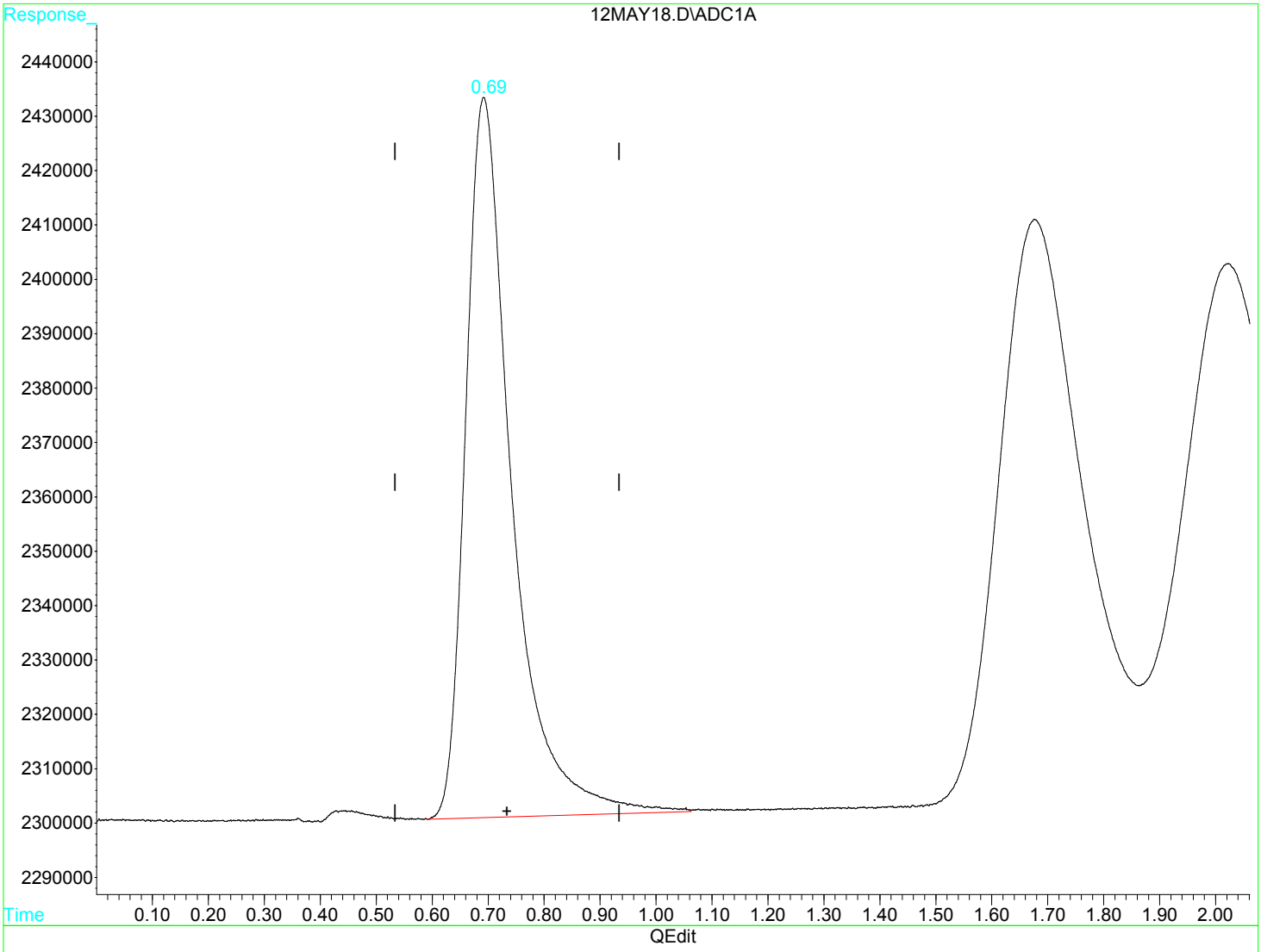
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY18.D Vial: 18
Acq On : 12 May 2017 10:20 am Operator: JH2
Sample : 1708354-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:23 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.69min 12.516ug/L

response 7575991

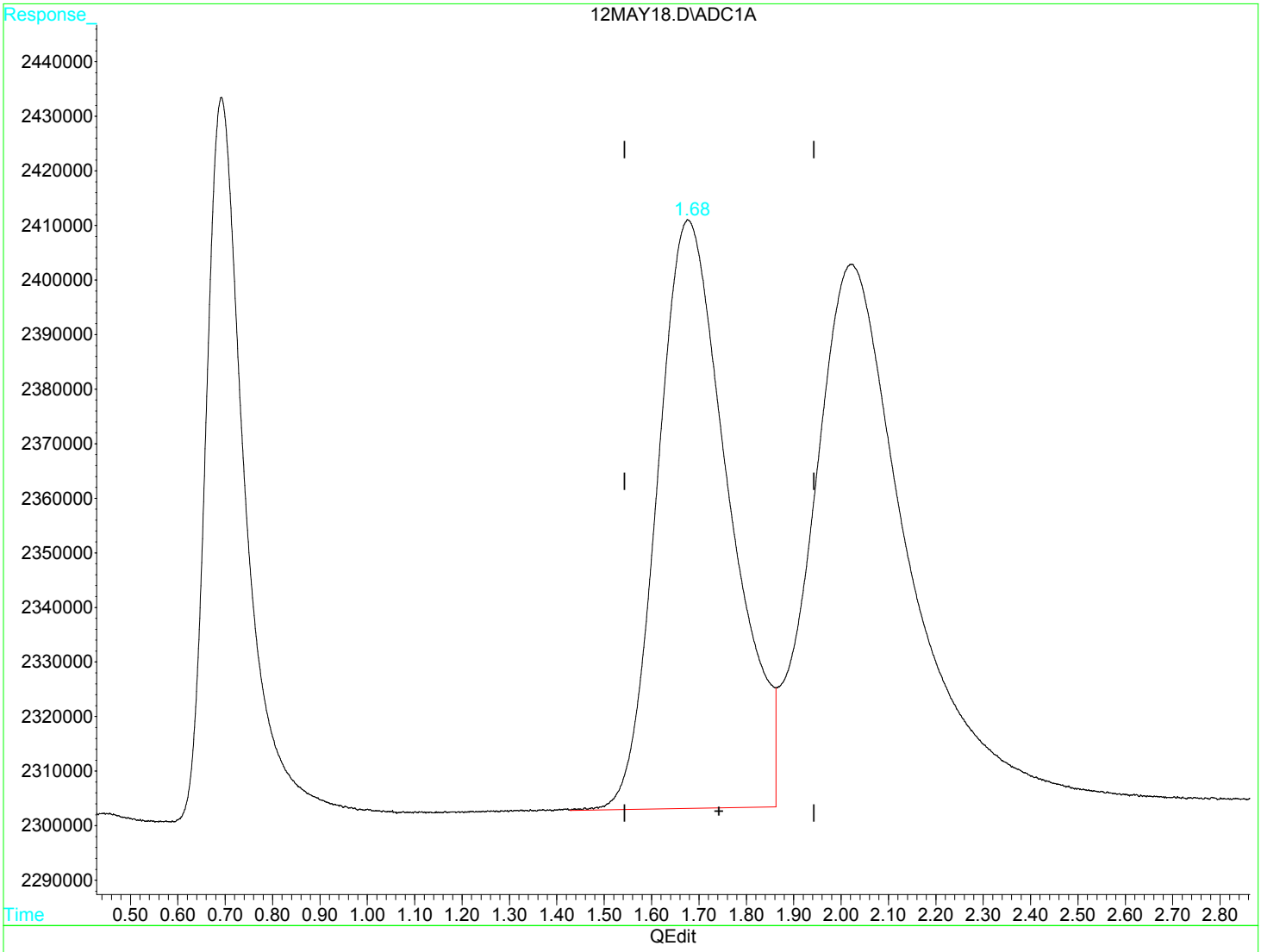
(+) = Expected Retention Time

12MAY18.D RSK175.M Fri May 12 11:05:41 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY18.D Vial: 18
Acq On : 12 May 2017 10:20 am Operator: JH2
Sample : 1708354-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:23 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.68min 28.055ug/L

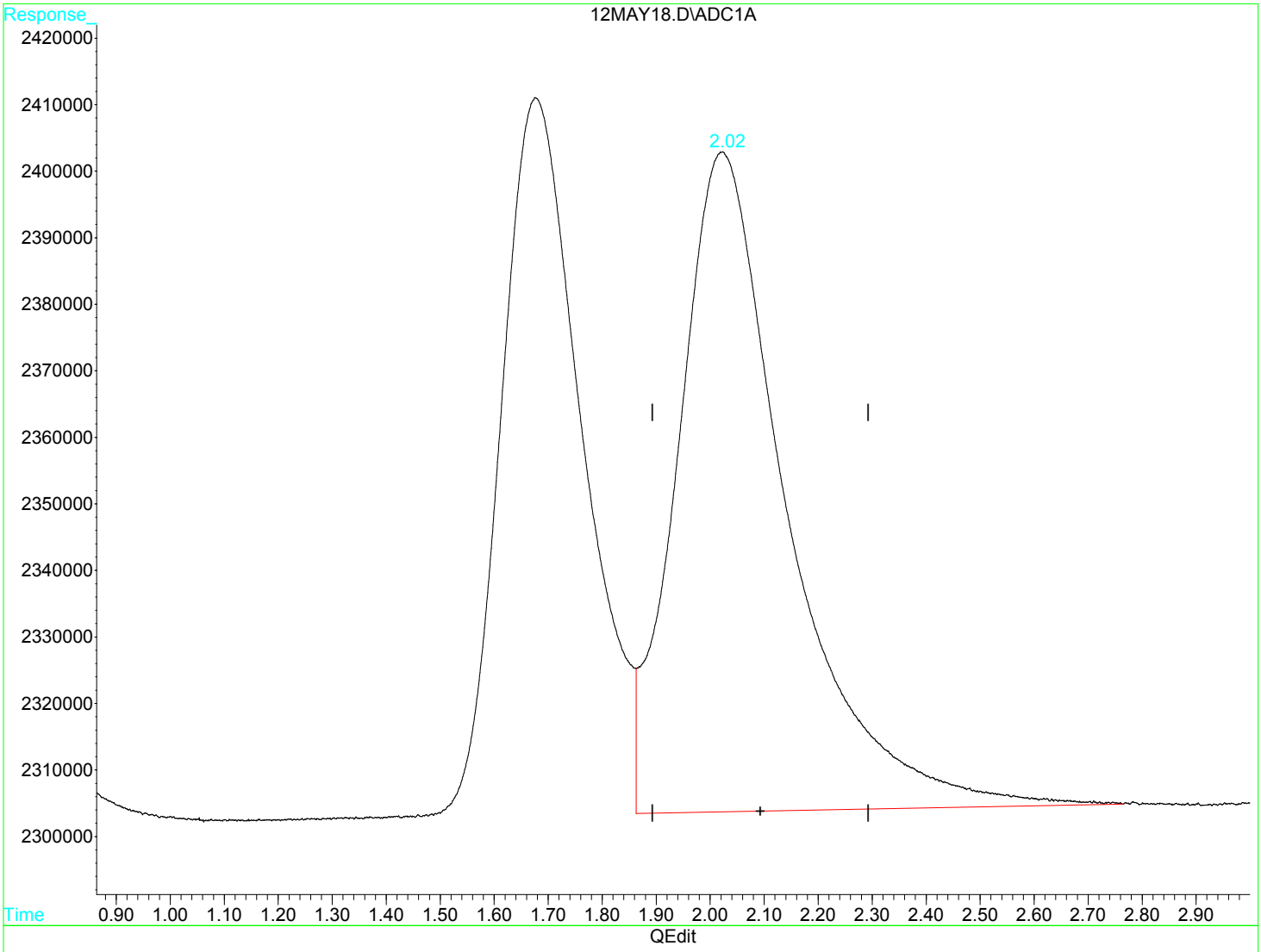
response 11291434

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY18.D Vial: 18
Acq On : 12 May 2017 10:20 am Operator: JH2
Sample : 1708354-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:23 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.02min 24.154ug/L

response 14031119

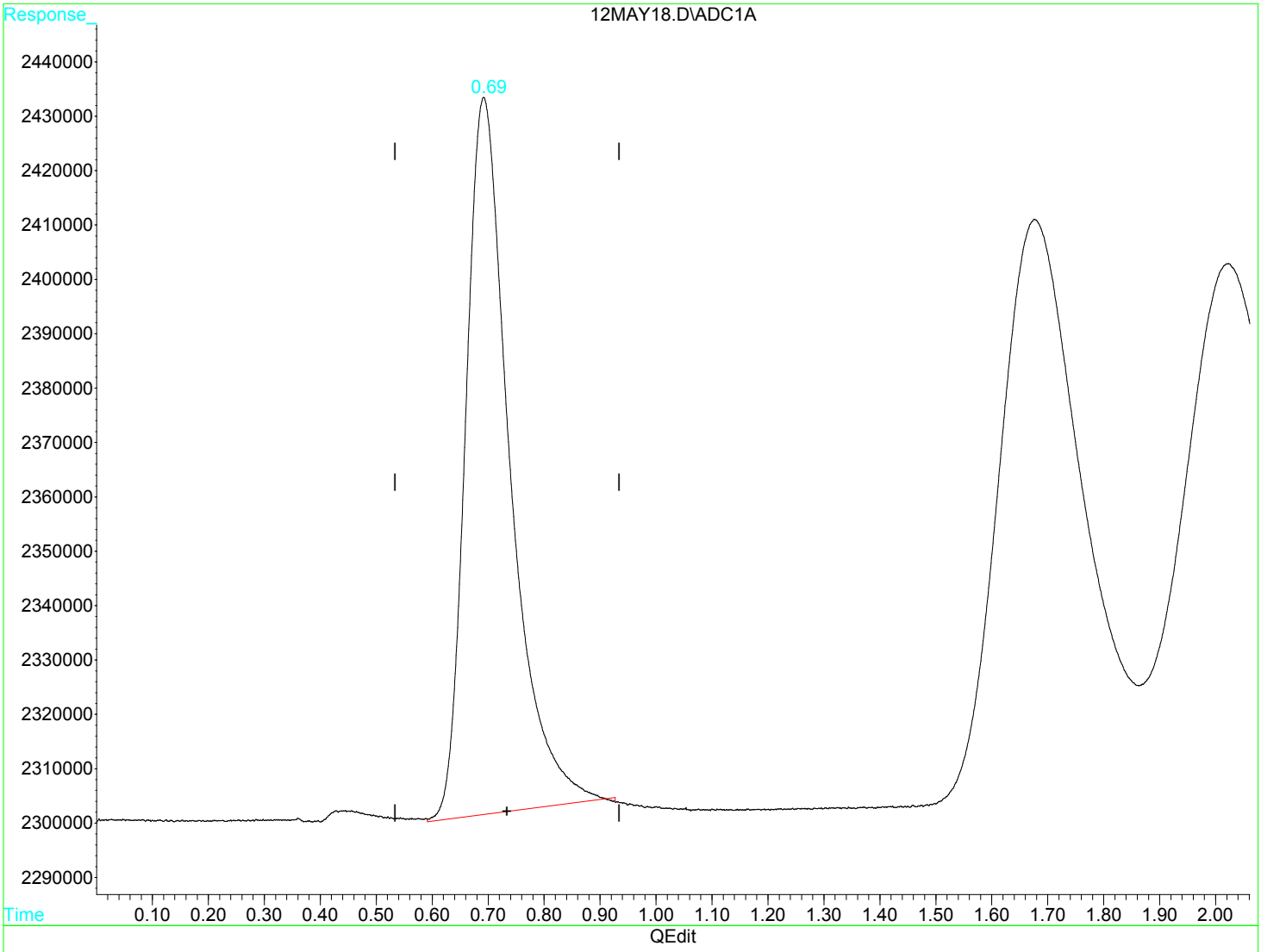
(+) = Expected Retention Time

12MAY18.D RSK175.M Fri May 12 11:05:50 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY18.D Vial: 18
Acq On : 12 May 2017 10:20 am Operator: JH2
Sample : 1708354-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:23 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.69min 11.972ug/L m

response 7246322

(+) = Expected Retention Time

Raw Data - CCB

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY03.D Vial: 3
Acq On : 12 May 2017 9:03 am Operator: JH2
Sample : 1708354-CCB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:37 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L d
3) m Ethane	0.00	0	N.D.	ug/L

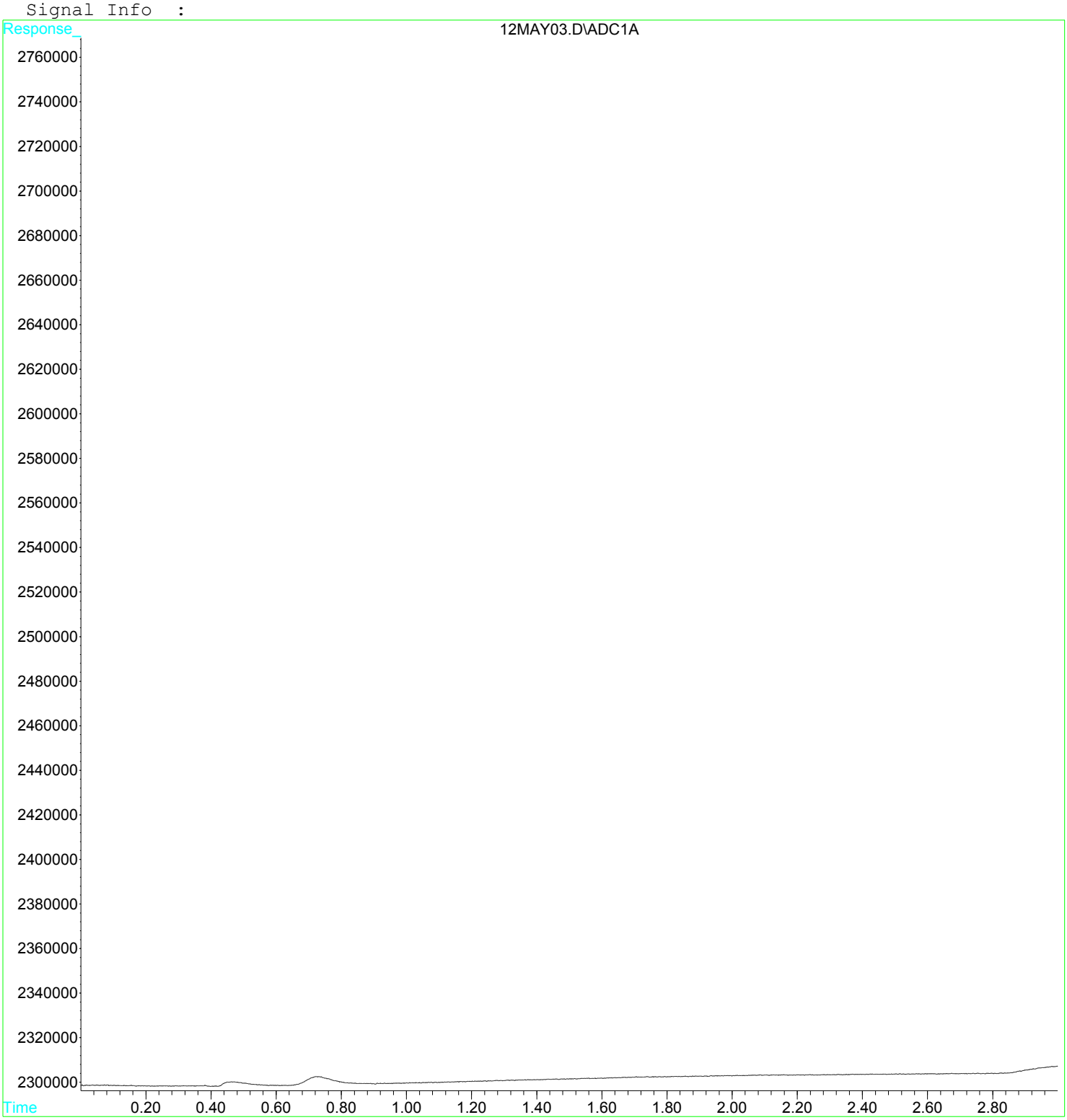
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY03.D Vial: 3
Acq On : 12 May 2017 9:03 am Operator: JH2
Sample : 1708354-CCB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:37 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY08.D Vial: 8
Acq On : 12 May 2017 9:26 am Operator: JH2
Sample : 1708354-CCB2 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) m Methane	0.00	0	N.D.	ug/L	d
2) m Ethene	0.00	0	N.D.	ug/L	d
3) m Ethane	0.00	0	N.D.	ug/L	d

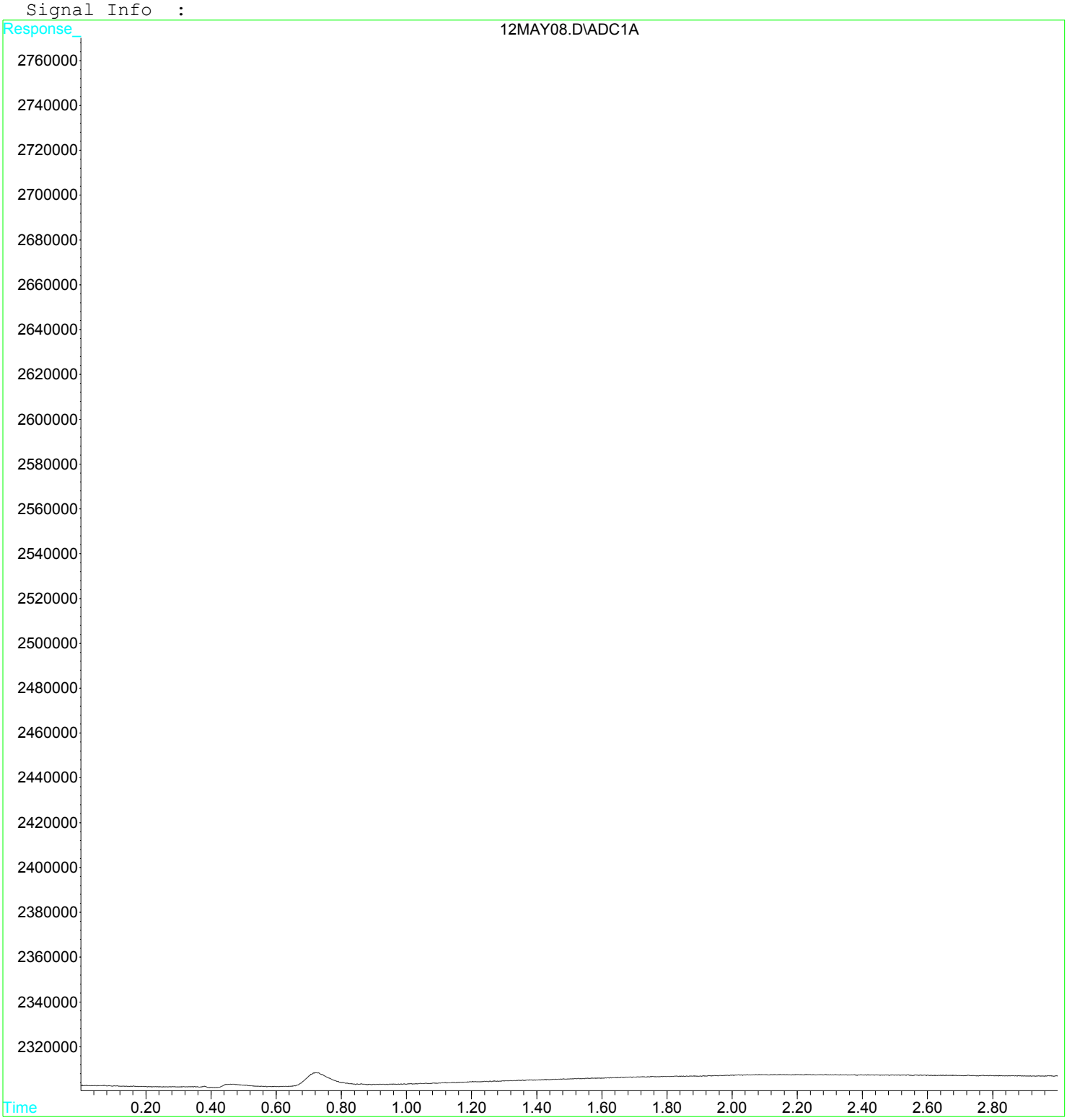
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY08.D Vial: 8
Acq On : 12 May 2017 9:26 am Operator: JH2
Sample : 1708354-CCB2 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY19.D Vial: 19
Acq On : 12 May 2017 10:25 am Operator: JH2
Sample : 1708354-CCB3 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L d
3) m Ethane	0.00	0	N.D.	ug/L d

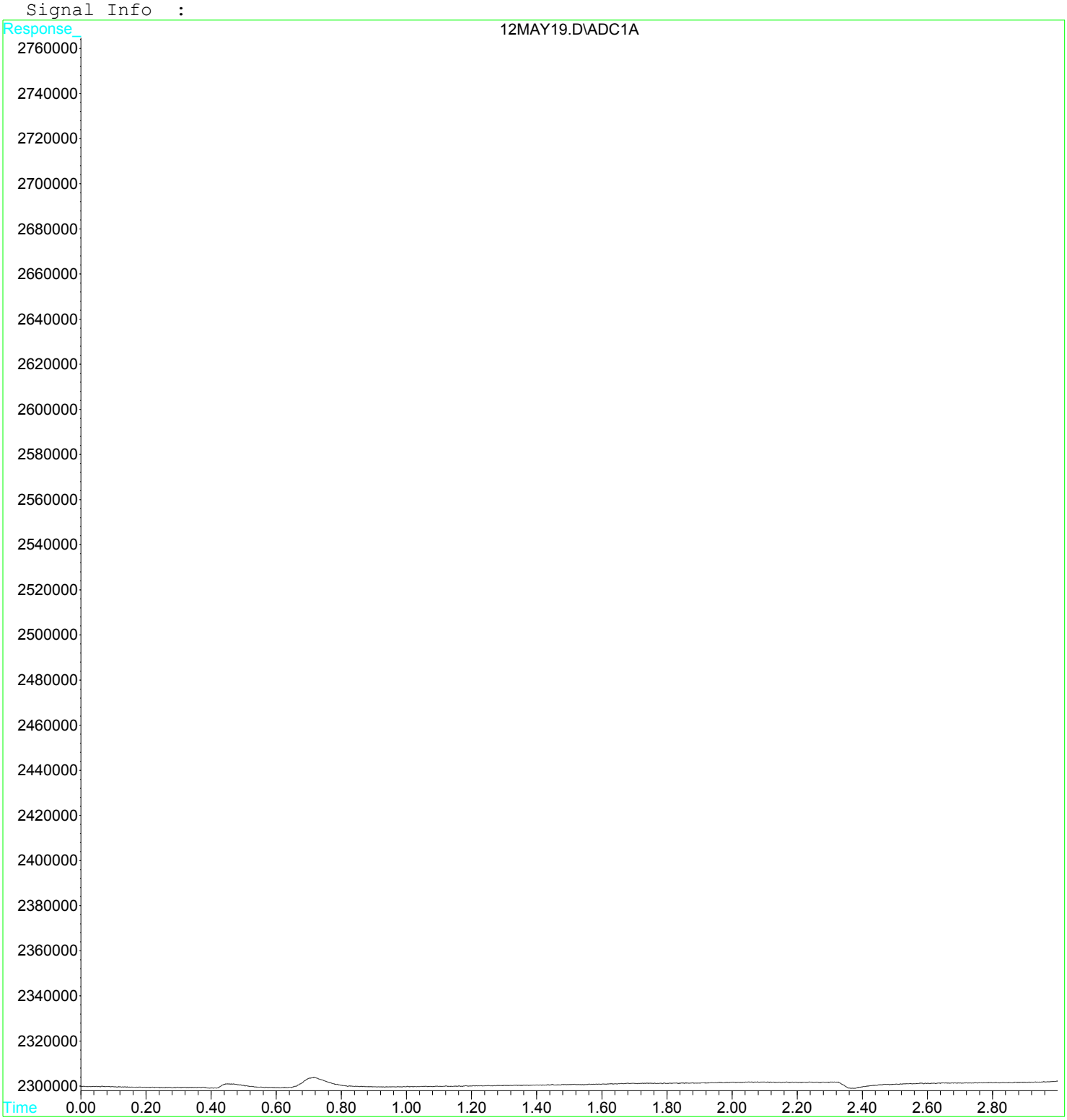
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY19.D Vial: 19
Acq On : 12 May 2017 10:25 am Operator: JH2
Sample : 1708354-CCB3 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 11:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - Method Blank

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY04.D Vial: 4
Acq On : 12 May 2017 9:08 am Operator: JH2
Sample : B[E1419-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:37 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) m Methane	0.00	0	N.D.	ug/L	d
2) m Ethene	0.00	0	N.D.	ug/L	d
3) m Ethane	0.00	0	N.D.	ug/L	d

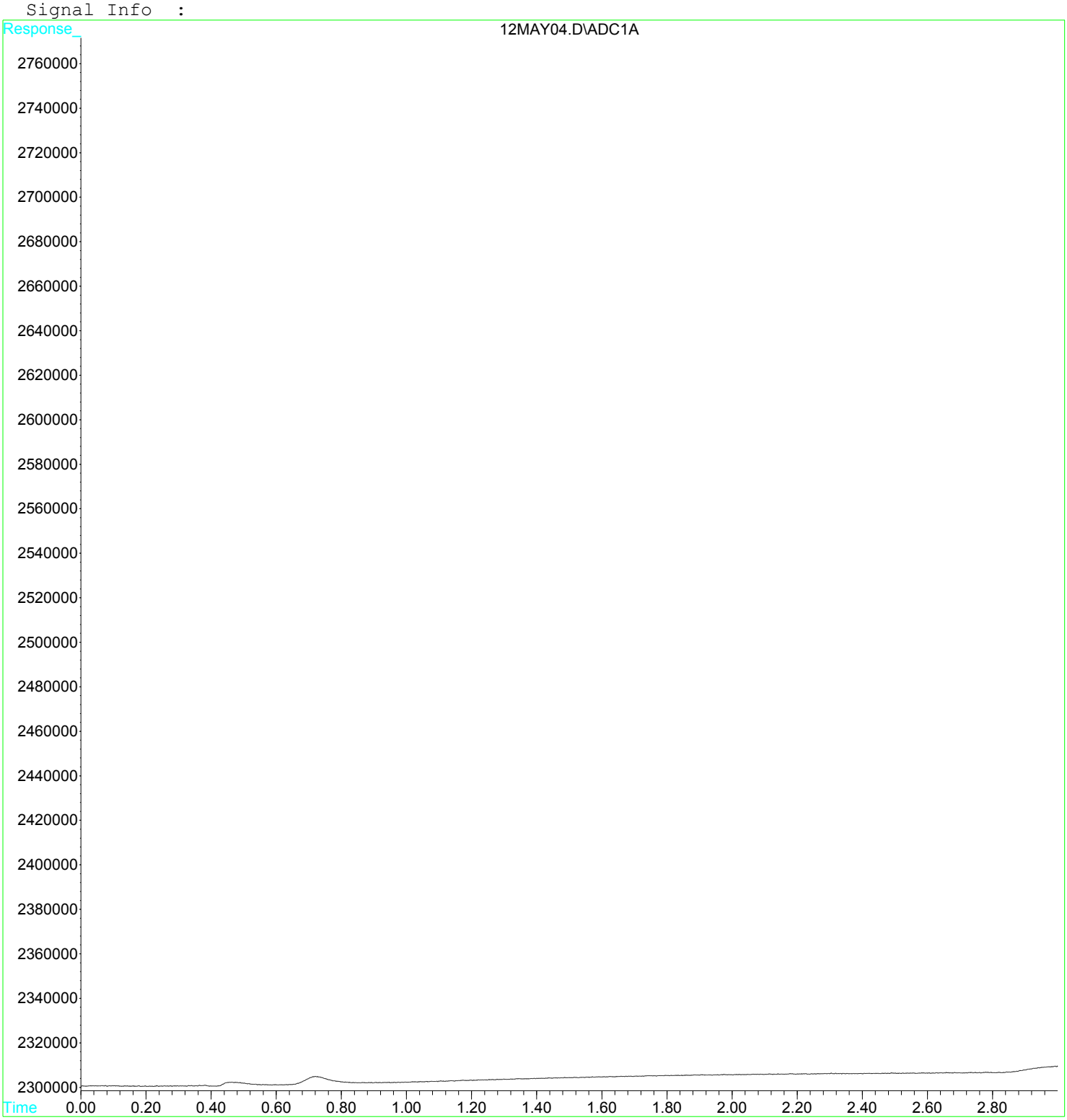
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY04.D Vial: 4
Acq On : 12 May 2017 9:08 am Operator: JH2
Sample : B[E1419-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:37 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - Lab Control Sample

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY05.D Vial: 5
Acq On : 12 May 2017 9:12 am Operator: JH2
Sample : B[E1419-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:39 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.69	6258486	10.3396	ug/L	m
2) m	Ethene	1.68	11463548	28.4825	ug/L	m
3) m	Ethane	2.03	14199954	24.4442	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int

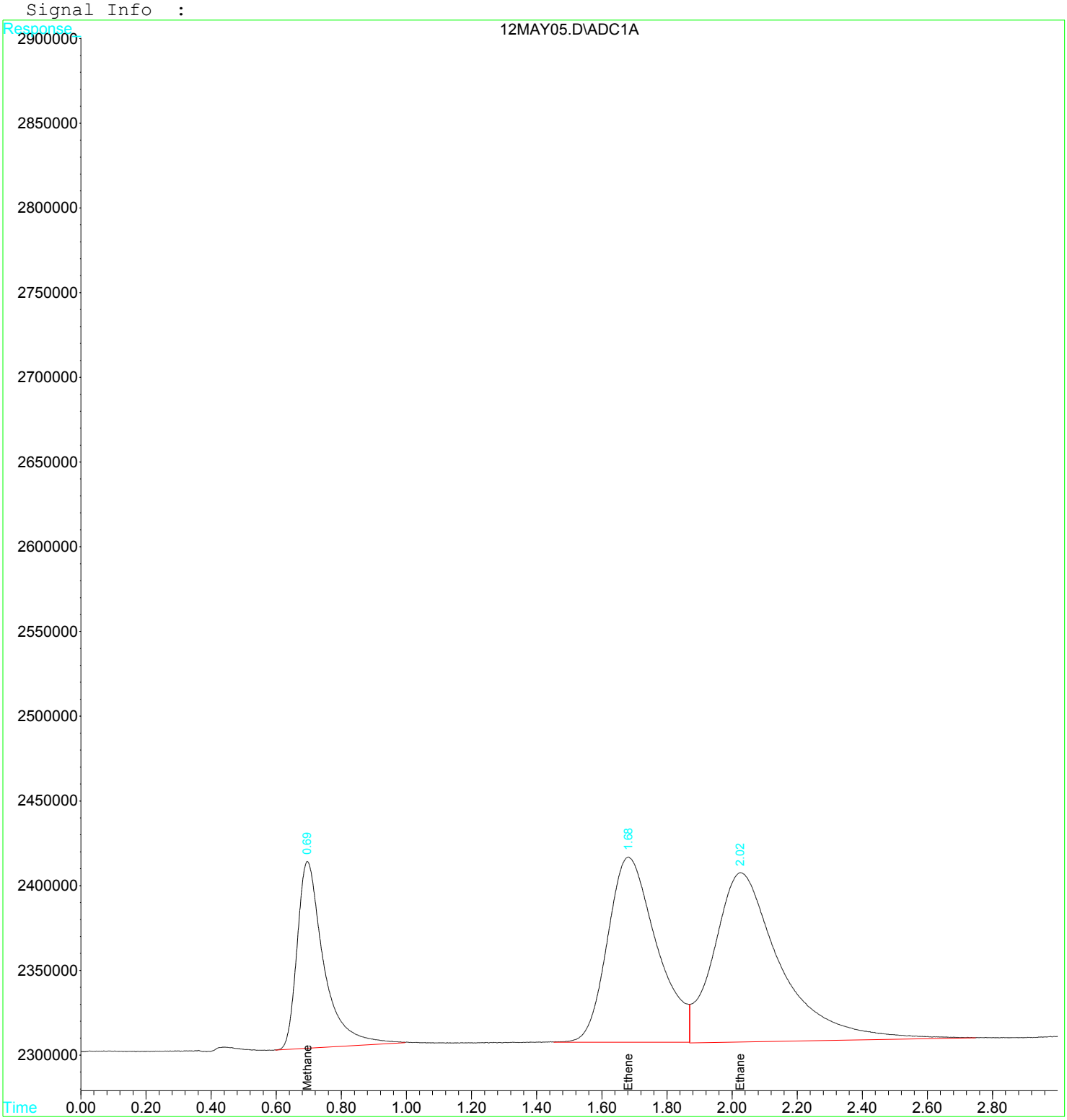
12MAY05.D RSK175.M Fri May 12 10:40:10 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY05.D Vial: 5
Acq On : 12 May 2017 9:12 am Operator: JH2
Sample : B[E1419-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:39 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

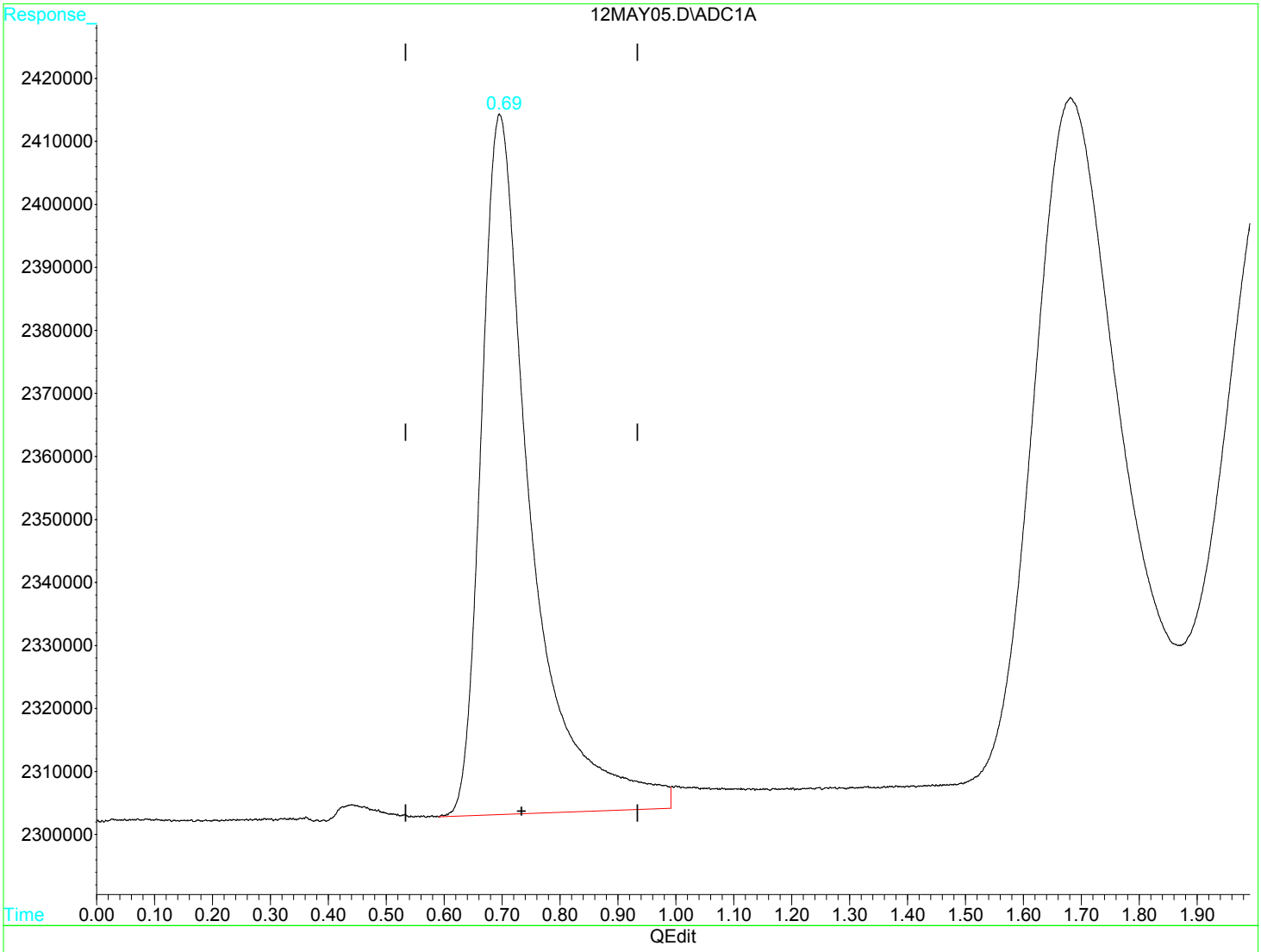
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY05.D Vial: 5
Acq On : 12 May 2017 9:12 am Operator: JH2
Sample : B[E1419-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 10.961ug/L

response 6634776

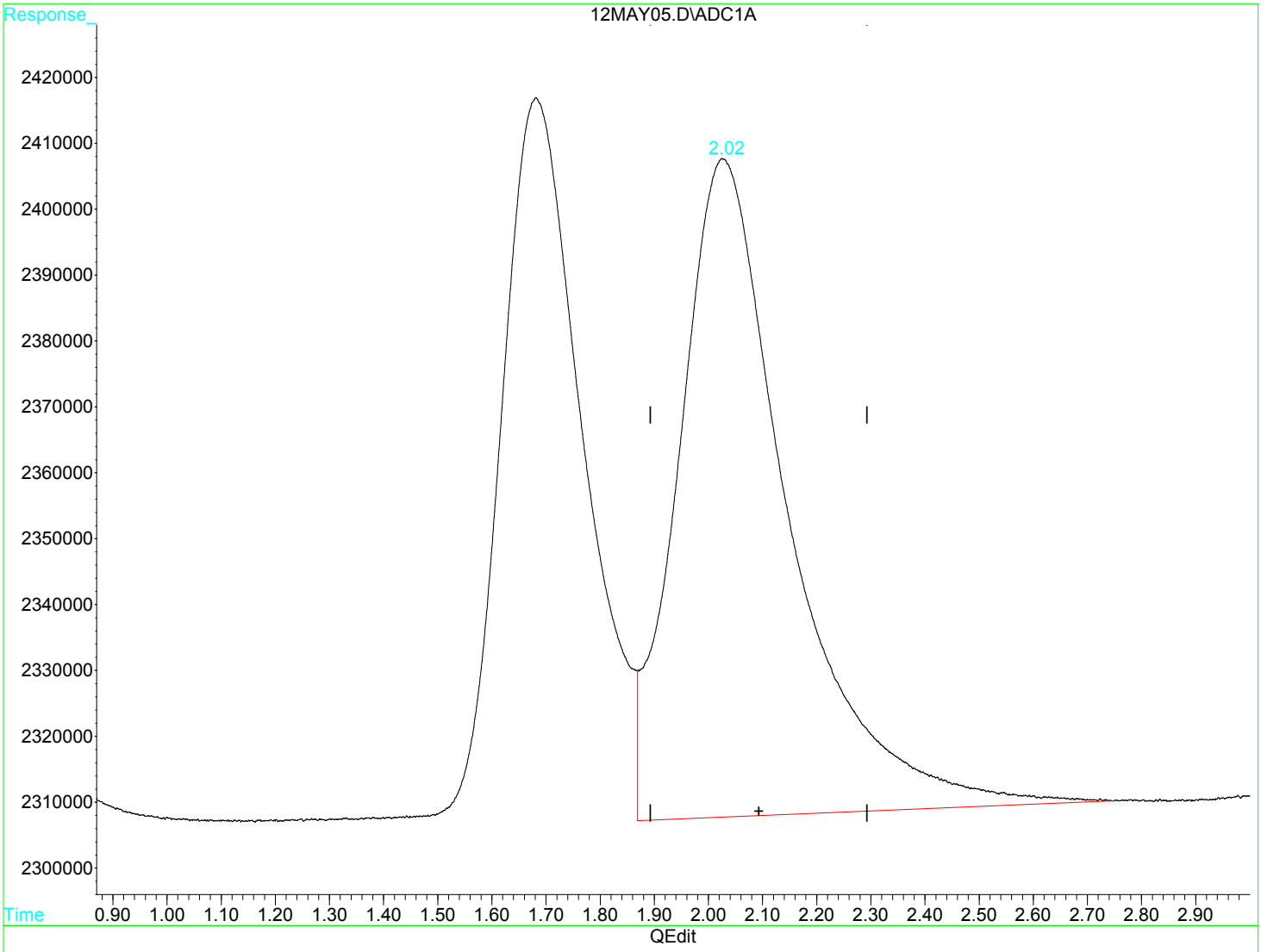
(+) = Expected Retention Time

12MAY05.D RSK175.M Fri May 12 10:38:00 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY05.D Vial: 5
Acq On : 12 May 2017 9:12 am Operator: JH2
Sample : B[E1419-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:38 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.03min 24.444ug/L

response 14199954

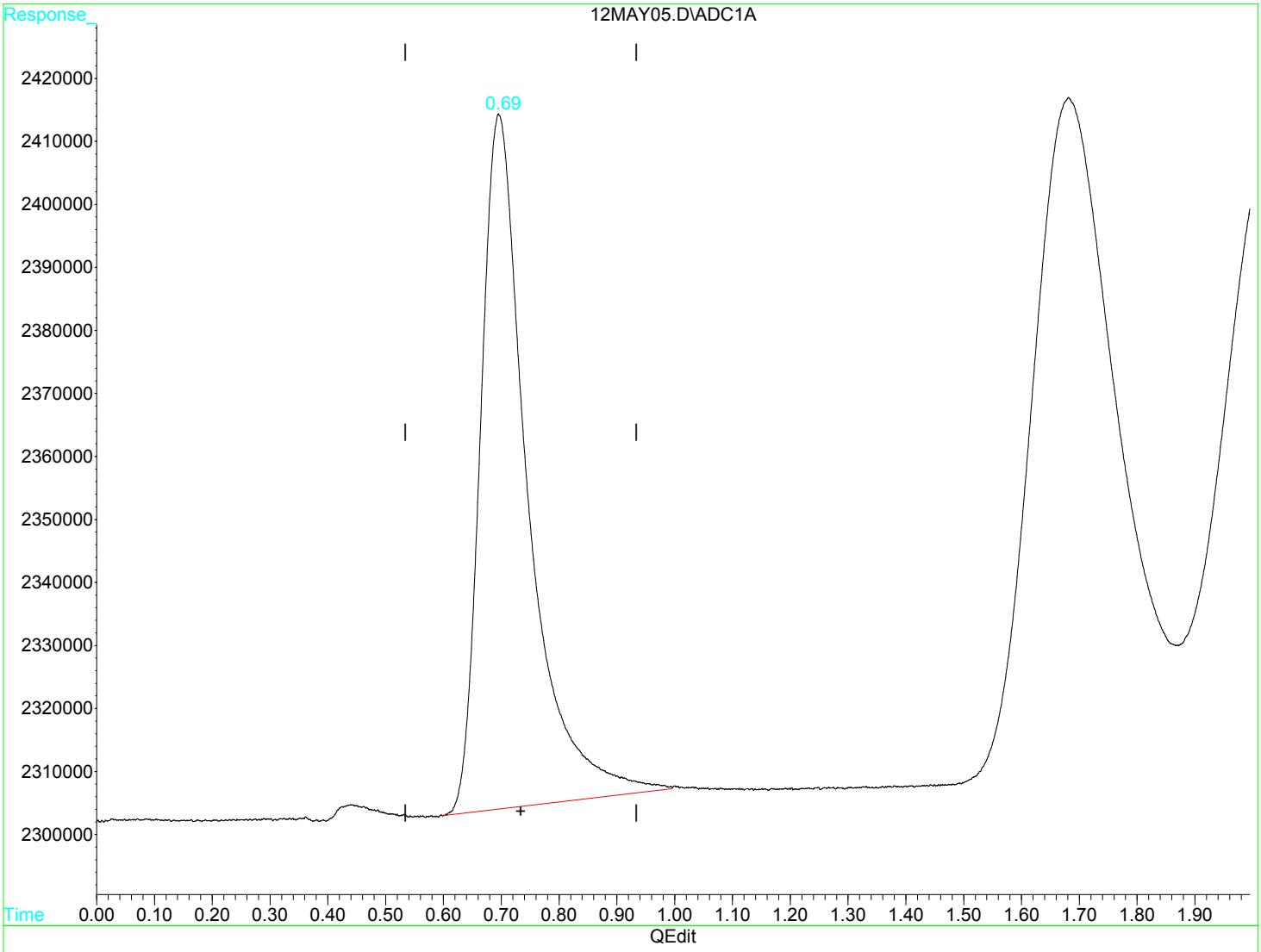
(+) = Expected Retention Time

12MAY05.D RSK175.M Fri May 12 10:40:02 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY05.D Vial: 5
Acq On : 12 May 2017 9:12 am Operator: JH2
Sample : B[E1419-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.69min 10.340ug/L m

response 6258486

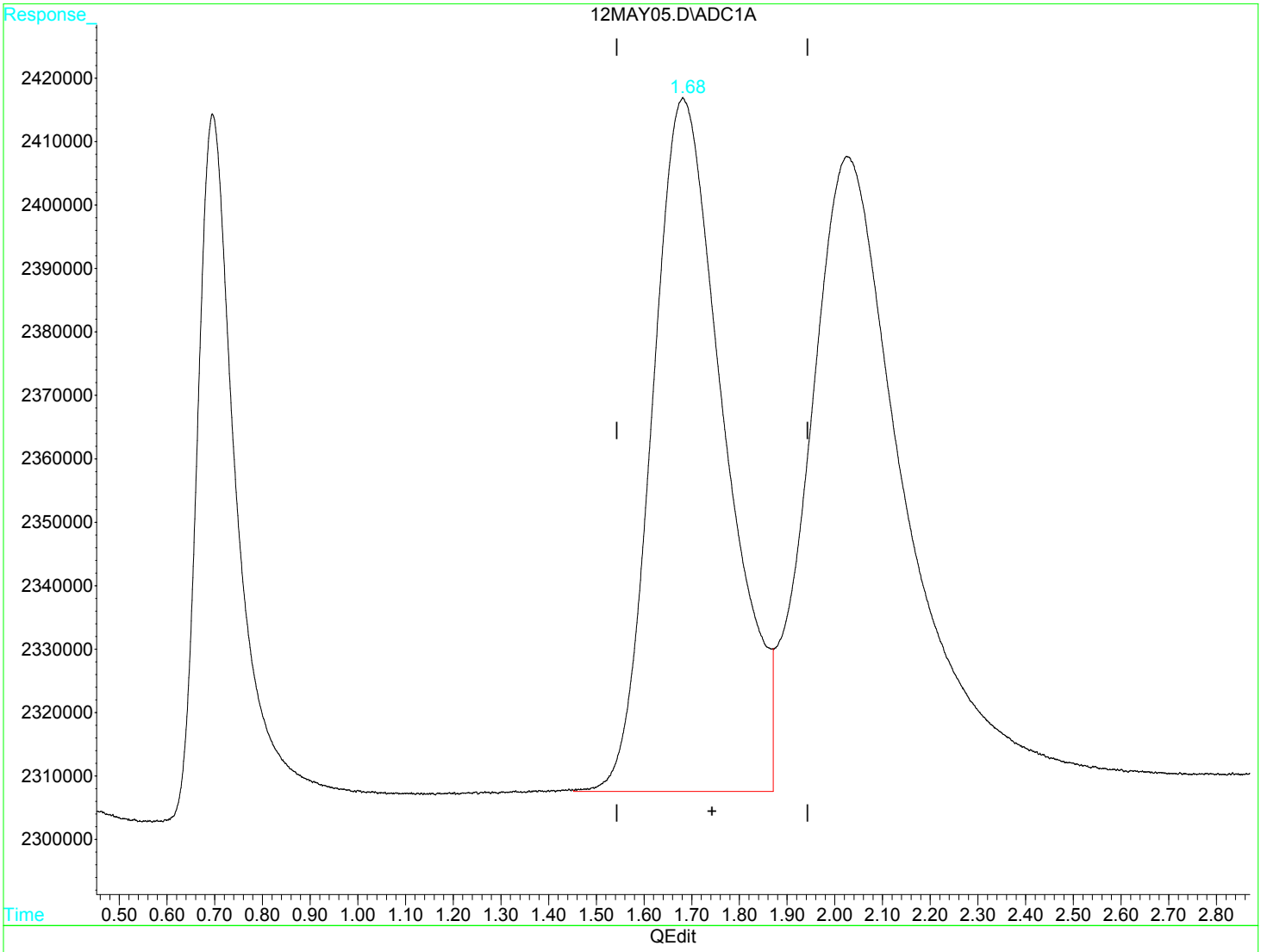
(+) = Expected Retention Time

12MAY05.D RSK175.M Fri May 12 10:38:59 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY05.D Vial: 5
Acq On : 12 May 2017 9:12 am Operator: JH2
Sample : B[E1419-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 10:38 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.68min 28.482ug/L m

response 11463548

(+) = Expected Retention Time

12MAY05.D RSK175.M Fri May 12 10:39:55 2017 MSD1

Raw Data - Lab Control Sample Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY06.D Vial: 6
Acq On : 12 May 2017 9:16 am Operator: JH2
Sample : B[E1419-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:19 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1) m	Methane	0.72	6299628	10.4076 ug/L
2) m	Ethene	1.70	11102035	27.5842 ug/L
3) m	Ethane	2.05	13527606	23.2868 ug/L

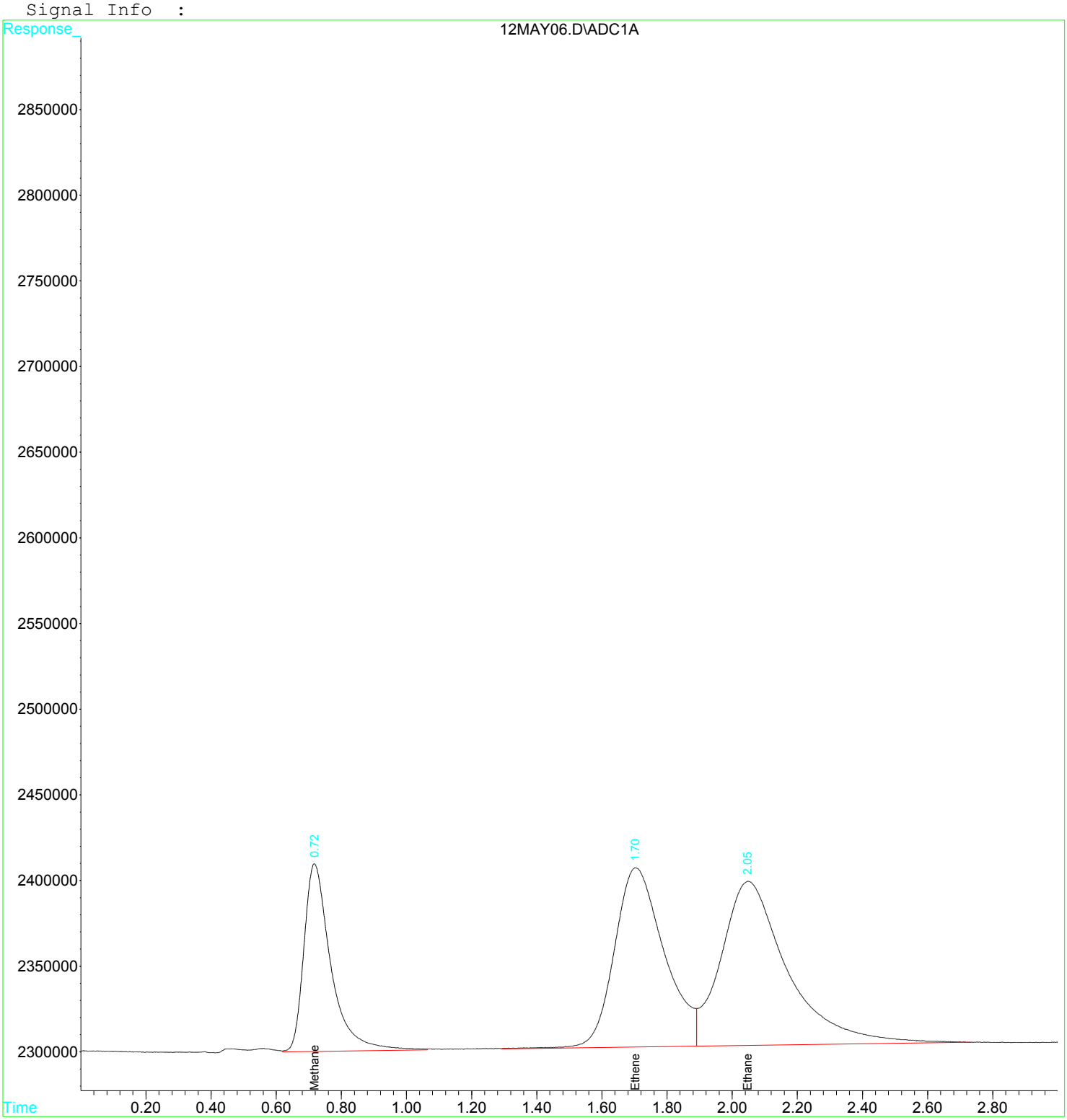
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY06.D Vial: 6
Acq On : 12 May 2017 9:16 am Operator: JH2
Sample : B[E1419-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:19 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

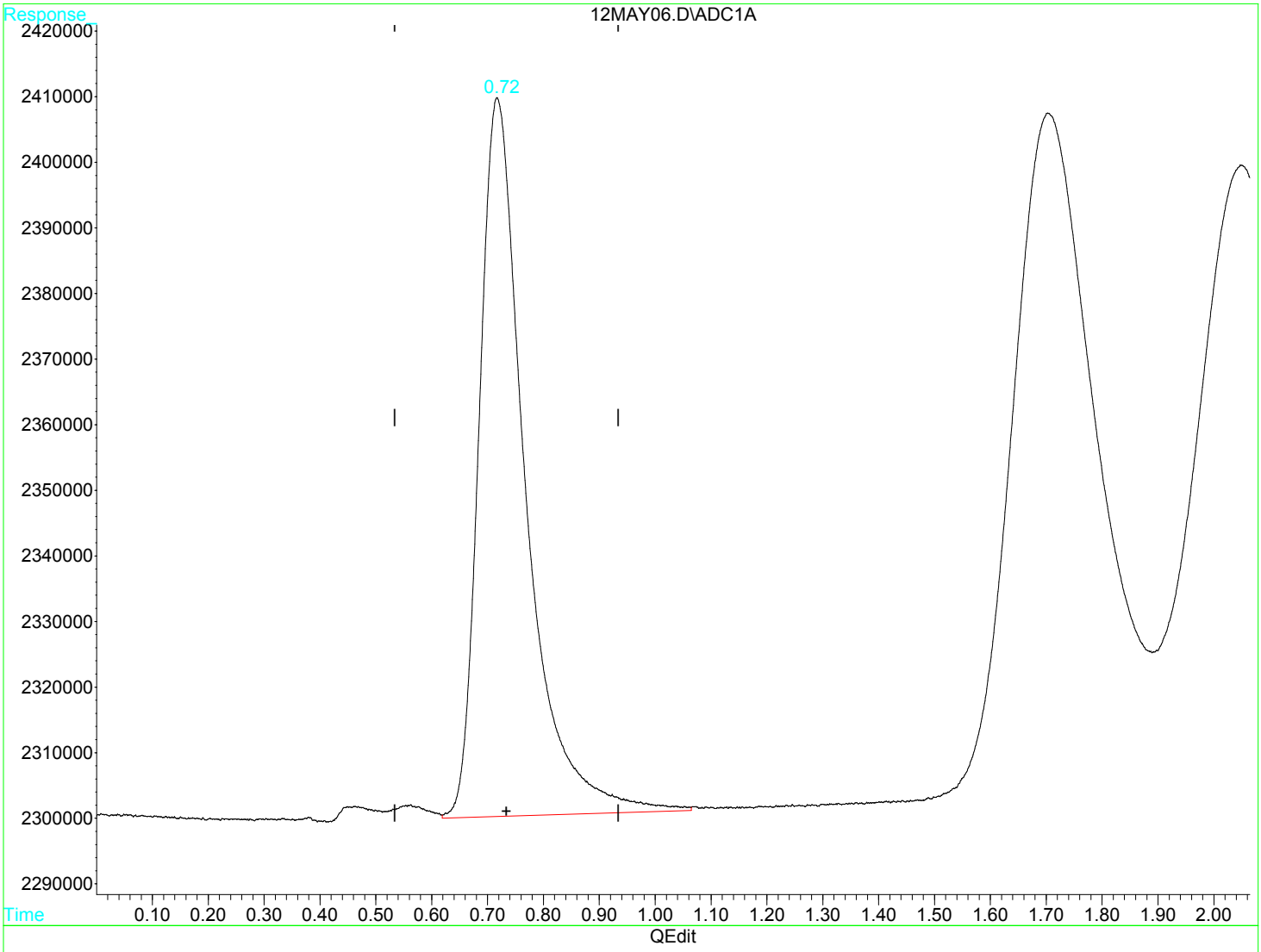
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY06.D Vial: 6
Acq On : 12 May 2017 9:16 am Operator: JH2
Sample : B[E1419-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 10.408ug/L

response 6299628

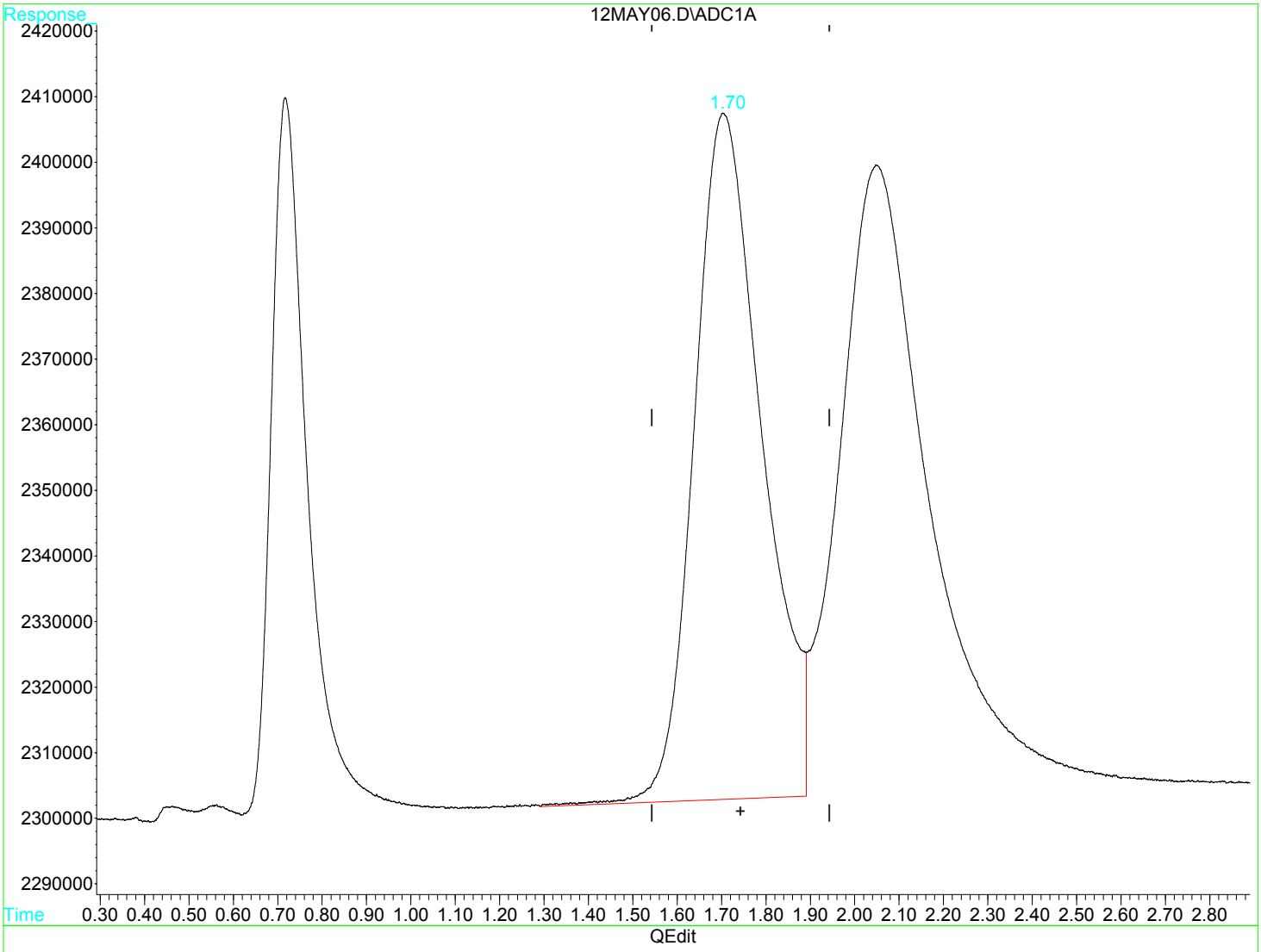
(+) = Expected Retention Time

12MAY06.D RSK175.M Fri May 12 10:42:30 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY06.D Vial: 6
Acq On : 12 May 2017 9:16 am Operator: JH2
Sample : B[E1419-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.70min 27.584ug/L

response 11102035

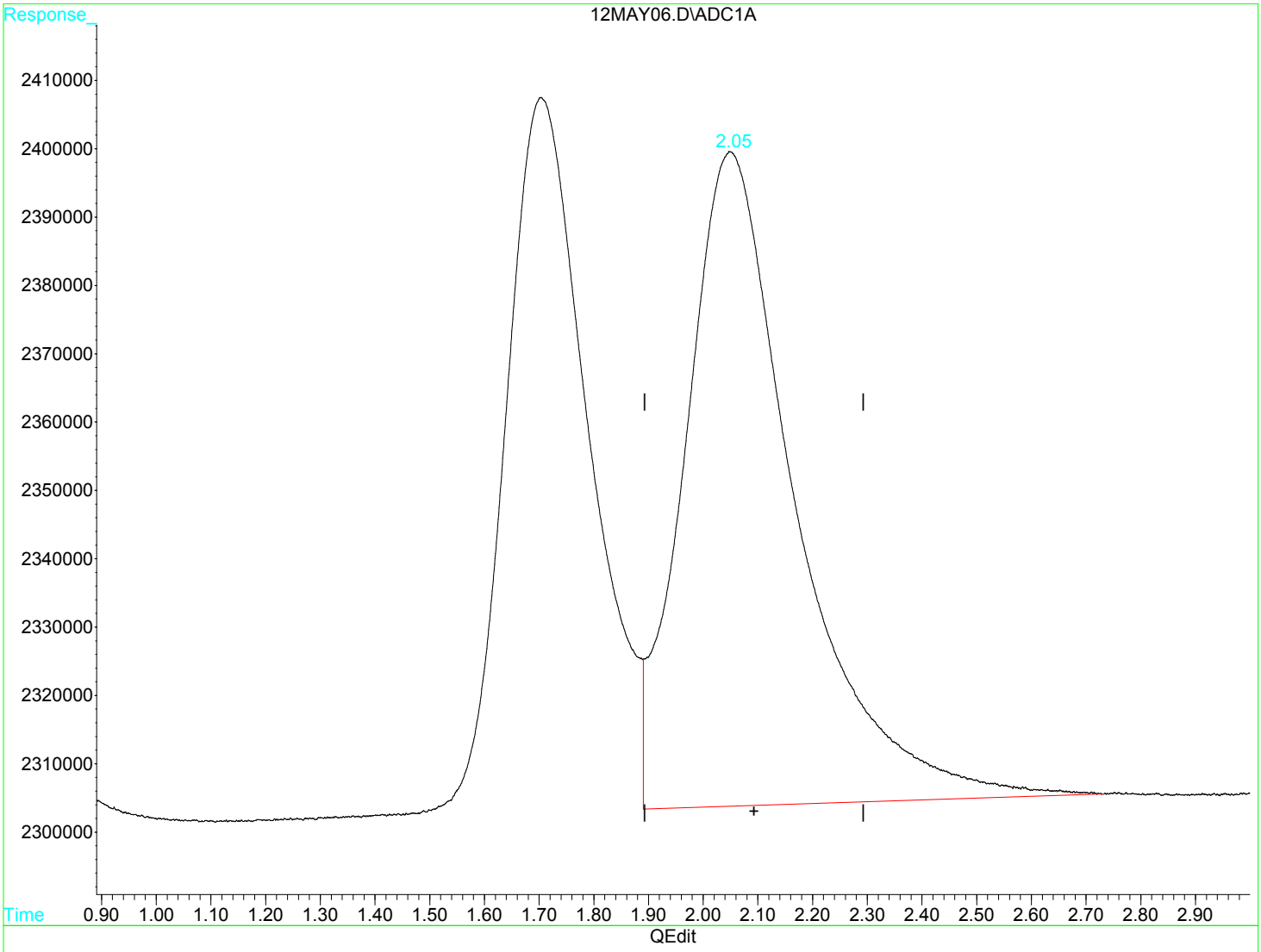
(+) = Expected Retention Time

12MAY06.D RSK175.M Fri May 12 10:42:37 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\MAY2017\MAY12\12MAY06.D Vial: 6
Acq On : 12 May 2017 9:16 am Operator: JH2
Sample : B[E1419-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: May 12 9:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.05min 23.287ug/L

response 13527606

(+) = Expected Retention Time

12MAY06.D RSK175.M Fri May 12 10:42:43 2017 MSD1

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1419

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water

Prepared using: Volatiles - GC - RSK-175M

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1712847-01 E	gRSK175 Diss Methan, Ethane,	5/12/2017 8:49AM	JH2	1	1					
1712989-01 E	gRSK175 Diss Methane	5/12/2017 8:49AM	JH2	1	1					
1713059-04 E	gmRSK175 Diss Methane, Etha	5/12/2017 8:49AM	JH2	1	1					
1713059-05 E	gmRSK175 Diss Methane, Etha	5/12/2017 8:49AM	JH2	1	1					
1713059-06 E	gmRSK175 Diss Methane, Etha	5/12/2017 8:49AM	JH2	1	1					
1713059-08 E	gmRSK175 Diss Methane, Etha	5/12/2017 8:49AM	JH2	1	1					
1713059-09 E	gmRSK175 Diss Methane, Etha	5/12/2017 8:49AM	JH2	1	1					
1713059-10 E	gmRSK175 Diss Methane, Etha	5/12/2017 8:49AM	JH2	1	1					
B[E1419-BLK1	QC	5/12/2017 8:49AM	JH2	1	1					
B[E1419-BS1	QC	5/12/2017 8:49AM	JH2	1	1	7B07033		1000		
B[E1419-BSD1	QC	5/12/2017 8:49AM	JH2	1	1	7B07033		1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7B07033	RSK-175M Spike	Helium	1/27/2017 by Jacob Hernandez	1/27/2018

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1701454

Instrument: GC-V1
Calibration ID: 1702007
Sequence Date: 01/27/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1701454-CAL1	QC		1		7B07021		
1701454-CAL2	QC		2		7B07022		
1701454-CAL3	QC		3		7B07023		
1701454-CAL4	QC		4		7B07024		
1701454-ICV1	QC		5		7B07025		
1701454-ICB1	QC		6		7B07026		

ANALYSIS SEQUENCE

1708354

Instrument: GC-V1
Calibration ID: 1702007
Sequence Date: 05/12/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708354-ICV1	QC		1		7B07022		
1708354-ICB1	QC		2		7B07026		
1708354-CCV1	QC		3		7B07027		
1708354-CCB1	QC		4		6A07009		
B[E1419-BLK1	QC		5				
B[E1419-BS1	QC		6				
B[E1419-BSD1	QC		7				
1708354-CCV2	QC		8		7B07027		
1708354-CCB2	QC		9		6A07009		
1712847-01	gRSK175 Diss Methan, Ethane, I	E	10				
1712989-01	gRSK175 Diss Methane	E	11				
1713059-04	gmRSK175 Diss Methane, Ethan	E	12				
1713059-05	gmRSK175 Diss Methane, Ethan	E	13				
1713059-06	gmRSK175 Diss Methane, Ethan	E	14				
1713059-08	gmRSK175 Diss Methane, Ethan	E	15				
1713059-09	gmRSK175 Diss Methane, Ethan	E	16				
1713059-10	gmRSK175 Diss Methane, Ethan	E	17				
1708354-CCV3	QC		18		7B07027		
1708354-CCB3	QC		19		6A07009		

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **1713059**
Class: **VOA**
Method: **EPA-8260B**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
TB08_170511	1713059-01
EB19_170511	1713059-02
EB20_170511	1713059-03
27MW09_170511	1713059-04
27MW10_170511	1713059-05
27MW11_170511	1713059-06
DUP10_170511	1713059-07
27MW12_170511	1713059-08
27MW13_170511	1713059-09
27MW14_170511	1713059-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 06-13-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Benzene	0.083	0.16	0.50	ug/L
Bromobenzene	0.13	0.16	0.50	ug/L
Bromochloromethane	0.24	0.30	1.0	ug/L
Bromodichloromethane	0.14	0.30	0.50	ug/L
Bromoform	0.27	0.30	0.60	ug/L
Bromomethane	0.25	0.25	0.60	ug/L
n-Butylbenzene	0.11	0.16	0.50	ug/L
sec-Butylbenzene	0.15	0.16	0.50	ug/L
tert-Butylbenzene	0.13	0.16	0.50	ug/L
Carbon tetrachloride	0.18	0.20	0.50	ug/L
Chlorobenzene	0.093	0.16	0.50	ug/L
Chloroethane	0.14	0.16	0.50	ug/L
Chloroform	0.12	0.16	0.50	ug/L
Chloromethane	0.14	0.16	0.50	ug/L
2-Chlorotoluene	0.20	0.20	0.50	ug/L
4-Chlorotoluene	0.15	0.16	0.50	ug/L
Dibromochloromethane	0.13	0.16	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.44	0.50	1.0	ug/L
1,2-Dibromoethane	0.16	0.16	0.50	ug/L
Dibromomethane	0.24	0.30	1.0	ug/L
1,2-Dichlorobenzene	0.072	0.16	0.50	ug/L
1,3-Dichlorobenzene	0.15	0.16	0.50	ug/L
1,4-Dichlorobenzene	0.062	0.16	0.50	ug/L
Dichlorodifluoromethane	0.099	0.16	0.50	ug/L
1,1-Dichloroethane	0.11	0.16	0.50	ug/L
1,2-Dichloroethane	0.17	0.20	0.50	ug/L
1,1-Dichloroethene	0.18	0.20	0.50	ug/L
cis-1,2-Dichloroethene	0.085	0.16	0.50	ug/L
trans-1,2-Dichloroethene	0.15	0.16	0.50	ug/L
1,2-Dichloropropane	0.13	0.16	0.50	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
1,3-Dichloropropane	0.086	0.16	0.50	ug/L
2,2-Dichloropropane	0.13	0.16	0.50	ug/L
1,1-Dichloropropene	0.085	0.16	0.50	ug/L
cis-1,3-Dichloropropene	0.14	0.16	0.50	ug/L
trans-1,3-Dichloropropene	0.079	0.16	0.50	ug/L
Ethylbenzene	0.098	0.16	0.50	ug/L
Hexachlorobutadiene	0.17	0.20	0.50	ug/L
Isopropylbenzene	0.14	0.16	0.50	ug/L
p-Isopropyltoluene	0.12	0.16	0.50	ug/L
Methylene chloride	0.48	0.50	1.0	ug/L
Methyl t-butyl ether	0.11	0.16	0.50	ug/L
Naphthalene	0.36	0.40	0.50	ug/L
n-Propylbenzene	0.11	0.16	0.50	ug/L
Styrene	0.068	0.16	0.50	ug/L
1,1,1,2-Tetrachloroethane	0.18	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.17	0.20	0.50	ug/L
Tetrachloroethene	0.13	0.16	0.50	ug/L
Toluene	0.093	0.16	0.50	ug/L
1,2,3-Trichlorobenzene	0.16	0.16	0.50	ug/L
1,2,4-Trichlorobenzene	0.19	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.11	0.16	0.50	ug/L
1,1,2-Trichloroethane	0.16	0.16	0.50	ug/L
Trichloroethene	0.085	0.16	0.50	ug/L
Trichlorofluoromethane	0.13	0.16	0.50	ug/L
1,2,3-Trichloropropane	0.24	0.33	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	0.16	0.50	ug/L
1,2,4-Trimethylbenzene	0.12	0.16	0.50	ug/L
1,3,5-Trimethylbenzene	0.12	0.16	0.50	ug/L
Vinyl chloride	0.12	0.16	0.50	ug/L
Total Xylenes	0.36	0.46	1.0	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Acetone	4.6	5.0	10	ug/L
Acetonitrile	5.5	6.0	10	ug/L
Allyl chloride	0.80	1.0	5.0	ug/L
t-Amyl Methyl ether	0.25	0.30	0.50	ug/L
Benzyl chloride	0.60	0.60	1.0	ug/L
t-Butyl alcohol	9.4	10	12	ug/L
Carbon disulfide	0.38	0.40	1.0	ug/L
Chloroprene	0.37	1.0	5.0	ug/L
Diisopropyl ether	0.23	0.30	0.50	ug/L
Ethyl t-butyl ether	0.18	0.20	0.50	ug/L
2-Hexanone	3.4	4.0	10	ug/L
Methyl ethyl ketone	2.5	3.0	10	ug/L
Methyl isobutyl ketone	2.1	3.0	10	ug/L
Vinyl acetate	1.8	6.0	20	ug/L
p- & m-Xylenes	0.28	0.30	0.50	ug/L
o-Xylene	0.082	0.16	0.50	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB08_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-01
File ID: 17MAY13.D
Sampled: 05/11/17 10:00
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 11:09
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB08_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-01	File ID:	17MAY13.D
Sampled:	05/11/17 10:00	Prepared:	05/17/17 07:00	Analyzed:	05/17/17 11:09
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB08_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-01			File ID:	17MAY13.D
Sampled:	05/11/17 10:00	Prepared:	05/17/17 07:00			Analyzed:	05/17/17 11:09
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.1700	91.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.040	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3500	93.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	186529	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	69701	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	276727	7.39	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-02
File ID: 17MAY14.D
Sampled: 05/11/17 11:00
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 11:32
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-02
File ID: 17MAY14.D
Sampled: 05/11/17 11:00
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 11:32
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-02		File ID:	17MAY14.D	
Sampled:	05/11/17 11:00	Prepared:	05/17/17 07:00		Analyzed:	05/17/17 11:32	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.9300	89.3	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8200	98.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8800	98.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	178910	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	72328	9.61	65740	9.62	
1,4-Difluorobenzene (IS)	274611	7.38	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-03
File ID: 17MAY15.D
Sampled: 05/11/17 11:10
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 11:55
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-03
File ID: 17MAY15.D
Sampled: 05/11/17 11:10
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 11:55
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-03		File ID:	17MAY15.D	
Sampled:	05/11/17 11:10	Prepared:	05/17/17 07:00		Analyzed:	05/17/17 11:55	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.2500	92.5	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.050	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4600	94.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	188850	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	72314	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	271748	7.39	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04
File ID: 17MAY07.D
Sampled: 05/11/17 09:38
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 08:50
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	4.0	0.13	0.16	0.50	
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.59	0.12	0.16	0.50	
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.20	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04
File ID: 17MAY07.D
Sampled: 05/11/17 09:38
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 08:50
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	1.0	0.14	0.16	0.50	
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.24	0.11	0.16	0.50	J
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	1.8	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW09_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-04	File ID:	17MAY07.D		
Sampled:	05/11/17 09:38	Prepared:	05/17/17 07:00	Analyzed:	05/17/17 08:50		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9500	99.5	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.080	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.130	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	182159	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	71005	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	274505	7.39	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-05
File ID: 17MAY16.D
Sampled: 05/11/17 11:34
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 12:18
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.39	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW10_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-05	File ID:	17MAY16.D
Sampled:	05/11/17 11:34	Prepared:	05/17/17 07:00	Analyzed:	05/17/17 12:18
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.42	0.11	0.16	0.50	J
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	J
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW10_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-05	File ID:	17MAY16.D		
Sampled:	05/11/17 11:34	Prepared:	05/17/17 07:00	Analyzed:	05/17/17 12:18		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9700	99.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4600	94.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5900	95.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	191496	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	65046	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	282202	7.39	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW11_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-06
File ID: 17MAY29.D
Sampled: 05/11/17 08:20
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 17:19
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	4.3	0.12	0.16	0.50	
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.23	0.072	0.16	0.50	J
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.95	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW11_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-06
File ID: 17MAY29.D
Sampled: 05/11/17 08:20
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 17:19
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.97	0.36	0.40	0.50	
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	J
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.85	0.12	0.16	0.50	
67-64-1	Acetone	1	19	4.6	5.0	10	
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW11_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-06		File ID:	17MAY29.D	
Sampled:	05/11/17 08:20	Prepared:	05/17/17 07:00		Analyzed:	05/17/17 17:19	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.910	109	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.170	102	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4600	94.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	178342	6.57	179855	6.57	
Chlorobenzene-d5 (IS)	68543	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	266236	7.38	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-07
File ID: 17MAY30.D
Sampled: 05/11/17 08:28
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 17:42
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.17	0.083	0.16	0.50	J
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	4.3	0.12	0.16	0.50	
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.22	0.072	0.16	0.50	J
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-07
File ID: 17MAY30.D
Sampled: 05/11/17 08:28
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 17:42
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	1.0	0.36	0.40	0.50	
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.23	0.093	0.16	0.50	J
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.85	0.12	0.16	0.50	
67-64-1	Acetone	1	17	4.6	5.0	10	
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP10_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-07			File ID:	17MAY30.D
Sampled:	05/11/17 08:28	Prepared:	05/17/17 07:00			Analyzed:	05/17/17 17:42
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.080	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.150	102	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4200	94.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	177702	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	69719	9.61	65740	9.62	
1,4-Difluorobenzene (IS)	273809	7.38	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW12_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-08
File ID: 17MAY19.D
Sampled: 05/11/17 09:37
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 13:28
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.47	0.072	0.16	0.50	J
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.58	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW12_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-08
File ID: 17MAY19.D
Sampled: 05/11/17 09:37
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 13:28
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.46	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW12_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-08		File ID:	17MAY19.D	
Sampled:	05/11/17 09:37	Prepared:	05/17/17 07:00		Analyzed:	05/17/17 13:28	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.1500	91.5	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8500	98.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5100	95.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	173851	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	65995	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	268815	7.38	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW13_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-09	File ID:	17MAY20.D
Sampled:	05/11/17 11:05	Prepared:	05/17/17 07:00	Analyzed:	05/17/17 13:51
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.51	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW13_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-09	File ID:	17MAY20.D
Sampled:	05/11/17 11:05	Prepared:	05/17/17 07:00	Analyzed:	05/17/17 13:51
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW13_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-09		File ID:	17MAY20.D	
Sampled:	05/11/17 11:05	Prepared:	05/17/17 07:00		Analyzed:	05/17/17 13:51	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.2800	92.8	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7800	97.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6300	96.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	199577	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	75547	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	306917	7.39	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW14_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-10
File ID: 17MAY21.D
Sampled: 05/11/17 08:15
Prepared: 05/17/17 07:00
Analyzed: 05/17/17 14:14
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[E1839
Sequence: 1708684
Calibration: 1704006
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.30	0.12	0.16	0.50	J
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	1.7	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW14_170511

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1713059-10	File ID:	17MAY21.D
Sampled:	05/11/17 08:15	Prepared:	05/17/17 07:00	Analyzed:	05/17/17 14:14
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.20	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	1.2	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW14_170511

Laboratory:	BC Laboratories			SDG:	1713059		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1713059-10		File ID:	17MAY21.D	
Sampled:	05/11/17 08:15	Prepared:	05/17/17 07:00		Analyzed:	05/17/17 14:14	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.8900	98.9	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8600	98.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8600	98.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	191820	6.58	179855	6.57	
Chlorobenzene-d5 (IS)	76045	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	297575	7.38	253606	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1839
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
TB08_170511	1713059-01	17MAY13.D	05/17/17 07:00	Full SAP LIST
EB19_170511	1713059-02	17MAY14.D	05/17/17 07:00	Full SAP LIST
EB20_170511	1713059-03	17MAY15.D	05/17/17 07:00	Full SAP LIST
27MW09_170511	1713059-04	17MAY07.D	05/17/17 07:00	Full SAP LIST
27MW10_170511	1713059-05	17MAY16.D	05/17/17 07:00	Full SAP LIST
27MW11_170511	1713059-06	17MAY29.D	05/17/17 07:00	Full SAP LIST
DUP10_170511	1713059-07	17MAY30.D	05/17/17 07:00	Full SAP LIST
27MW12_170511	1713059-08	17MAY19.D	05/17/17 07:00	Full SAP LIST
27MW13_170511	1713059-09	17MAY20.D	05/17/17 07:00	Full SAP LIST
27MW14_170511	1713059-10	17MAY21.D	05/17/17 07:00	Full SAP LIST
Blank	B[E1839-BLK1	17MAY06.D	05/17/17 07:00	
LCS	B[E1839-BS1	17MAY08.D	05/17/17 07:00	
27MW09_170511	B[E1839-MS1	17MAY09.D	05/17/17 07:00	
27MW09_170511	B[E1839-MSD1	17MAY10.D	05/17/17 07:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1839-BLK1	File ID:	17MAY06.D
Prepared:	05/17/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	05/17/17 08:27	Instrument:	MS-V5		
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	0.16	0.099	0.16	0.50	U

AMEC Environmental & Infrastructure-
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Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1839-BLK1	File ID:	17MAY06.D
Prepared:	05/17/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	05/17/17 08:27	Instrument:	MS-V5		
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-34-3	1,1-Dichloroethane	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	0.16	0.13	0.16	0.50	U
563-58-6	1,1-Dichloropropene	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.19	0.20	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1839-BLK1	File ID:	17MAY06.D
Prepared:	05/17/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	05/17/17 08:27	Instrument:	MS-V5		
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-55-6	1,1,1-Trichloroethane	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	10	9.4	10	12	U
75-15-0	Carbon disulfide	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.3600	93.6	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9700	99.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6700	96.7	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	190338	6.58	179855	6.57	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1839-BLK1	File ID:	17MAY06.D
Prepared:	05/17/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	05/17/17 08:27	Instrument:	MS-V5		
Batch:	B[E1839	Sequence:	1708684	Calibration:	1704006

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	72242	9.62	65740	9.62	
1,4-Difluorobenzene (IS)	285937	7.38	253606	7.38	

AMEC Environmental & Infrastructure-
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Project: Alameda
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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	ND	27.080	108	79 - 120
Bromobenzene	25.000	ND	24.380	97.5	80 - 120
Bromochloromethane	25.000	ND	23.230	92.9	78 - 123
Bromodichloromethane	25.000	ND	24.020	96.1	79 - 125
Bromoform	25.000	ND	24.870	99.5	66 - 130
Bromomethane	25.000	ND	17.910	71.6	53 - 141
n-Butylbenzene	25.000	ND	26.990	108	75 - 128
sec-Butylbenzene	25.000	0.15000	26.700	106	77 - 126
tert-Butylbenzene	25.000	3.9700	26.730	91.0	78 - 124
Carbon tetrachloride	25.000	ND	26.070	104	72 - 136
Chlorobenzene	25.000	ND	25.600	102	82 - 118
Chloroethane	25.000	ND	28.140	113	60 - 138
Chloroform	25.000	0.59000	25.070	97.9	79 - 124
Chloromethane	25.000	ND	23.090	92.4	50 - 139
2-Chlorotoluene	25.000	ND	24.570	98.3	79 - 122
4-Chlorotoluene	25.000	ND	25.540	102	78 - 122
Dibromochloromethane	25.000	ND	23.910	95.6	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	21.540	86.2	62 - 128
1,2-Dibromoethane	25.000	ND	24.290	97.2	77 - 121
Dibromomethane	25.000	ND	23.060	92.2	79 - 123
1,2-Dichlorobenzene	25.000	ND	24.010	96.0	80 - 119
1,3-Dichlorobenzene	25.000	ND	24.350	97.4	80 - 119
1,4-Dichlorobenzene	25.000	ND	24.570	98.3	79 - 118
Dichlorodifluoromethane	25.000	ND	20.760	83.0	32 - 152
1,1-Dichloroethane	25.000	ND	24.960	99.8	77 - 125

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	ND	23.540	94.2	73 - 128
1,1-Dichloroethene	25.000	ND	26.260	105	71 - 131
cis-1,2-Dichloroethene	25.000	0.20000	26.830	107	78 - 123
trans-1,2-Dichloroethene	25.000	ND	28.200	113	75 - 124
1,2-Dichloropropane	25.000	ND	25.300	101	78 - 122
1,3-Dichloropropane	25.000	ND	23.270	93.1	80 - 119
2,2-Dichloropropane	25.000	ND	25.210	101	60 - 139
1,1-Dichloropropene	25.000	ND	27.490	110	79 - 125
cis-1,3-Dichloropropene	25.000	ND	24.280	97.1	75 - 124
trans-1,3-Dichloropropene	25.000	ND	22.960	91.8	73 - 127
Ethylbenzene	25.000	ND	26.850	107	79 - 121
Hexachlorobutadiene	25.000	ND	24.340	97.4	66 - 134
Isopropylbenzene	25.000	1.0300	26.820	103	72 - 131
p-Isopropyltoluene	25.000	ND	26.040	104	77 - 127
Methylene chloride	25.000	ND	26.870	107	74 - 124
Methyl t-butyl ether	25.000	0.24000	24.330	96.4	71 - 124
Naphthalene	25.000	ND	23.210	92.8	61 - 128
n-Propylbenzene	25.000	ND	26.230	105	76 - 126
Styrene	25.000	ND	26.280	105	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	24.640	98.6	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	25.390	102	71 - 121
Tetrachloroethene	25.000	ND	24.240	97.0	74 - 129
Toluene	25.000	ND	26.140	105	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	23.370	93.5	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	23.580	94.3	69 - 130

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	25.000	ND	26.160	105	74 - 131
1,1,2-Trichloroethane	25.000	ND	24.570	98.3	80 - 119
Trichloroethene	25.000	ND	24.940	99.8	79 - 123
Trichlorofluoromethane	25.000	ND	25.170	101	65 - 141
1,2,3-Trichloropropane	25.000	ND	23.610	94.4	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	26.970	108	70 - 136
1,2,4-Trimethylbenzene	25.000	ND	25.250	101	76 - 124
1,3,5-Trimethylbenzene	25.000	ND	25.580	102	75 - 124
Vinyl chloride	25.000	1.8500	29.140	109	58 - 137
Total Xylenes	75.000	ND	79.880	107	79 - 121
Acetone	320.00	ND	303.20	94.8	39 - 160
Acetonitrile	160.00	ND	151.10	94.4	50 - 142
Allyl chloride	32.000	ND	37.150	116	68 - 130
t-Amyl Methyl ether	16.000	ND	14.560	91.0	68 - 128
Benzyl chloride	32.000	ND	29.890	93.4	42 - 138
t-Butyl alcohol	800.00	ND	876.29	110	68 - 129
Carbon disulfide	32.000	ND	39.970	125	64 - 133
Chloroprene	32.000	ND	34.660	108	65 - 135
Diisopropyl ether	16.000	ND	16.860	105	67 - 128
Ethyl t-butyl ether	16.000	ND	15.580	97.4	70 - 127
2-Hexanone	320.00	ND	311.88	97.5	57 - 139
Methyl ethyl ketone	160.00	ND	185.29	116	56 - 143
Methyl isobutyl ketone	160.00	ND	153.33	95.8	67 - 130
Vinyl acetate	160.00	ND	150.02	93.8	54 - 146

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	27.220	109	0.516	30	79 - 120
Bromobenzene	25.000	24.810	99.2	1.75	30	80 - 120
Bromochloromethane	25.000	23.710	94.8	2.05	30	78 - 123
Bromodichloromethane	25.000	23.330	93.3	2.91	30	79 - 125
Bromoform	25.000	25.770	103	3.55	30	66 - 130
Bromomethane	25.000	19.520	78.1	8.60	30	53 - 141
n-Butylbenzene	25.000	27.430	110	1.62	30	75 - 128
sec-Butylbenzene	25.000	29.270	116	9.18	30	77 - 126
tert-Butylbenzene	25.000	29.040	100	8.28	30	78 - 124
Carbon tetrachloride	25.000	25.040	100	4.03	30	72 - 136
Chlorobenzene	25.000	25.600	102	0.00	30	82 - 118
Chloroethane	25.000	26.540	106	5.85	30	60 - 138
Chloroform	25.000	24.400	95.2	2.71	30	79 - 124
Chloromethane	25.000	23.660	94.6	2.44	30	50 - 139
2-Chlorotoluene	25.000	25.320	101	3.01	30	79 - 122
4-Chlorotoluene	25.000	26.420	106	3.39	30	78 - 122
Dibromochloromethane	25.000	22.900	91.6	4.32	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	21.170	84.7	1.73	30	62 - 128
1,2-Dibromoethane	25.000	23.460	93.8	3.48	30	77 - 121
Dibromomethane	25.000	22.890	91.6	0.740	30	79 - 123
1,2-Dichlorobenzene	25.000	23.860	95.4	0.627	30	80 - 119
1,3-Dichlorobenzene	25.000	25.770	103	5.67	30	80 - 119
1,4-Dichlorobenzene	25.000	26.930	108	9.17	30	79 - 118
Dichlorodifluoromethane	25.000	19.090	76.4	8.38	30	32 - 152
1,1-Dichloroethane	25.000	24.730	98.9	0.926	30	77 - 125
1,2-Dichloroethane	25.000	21.760	87.0	7.86	30	73 - 128

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	25.440	102	3.17	30	71 - 131
cis-1,2-Dichloroethene	25.000	27.290	108	1.70	30	78 - 123
trans-1,2-Dichloroethene	25.000	28.360	113	0.566	30	75 - 124
1,2-Dichloropropane	25.000	24.220	96.9	4.36	30	78 - 122
1,3-Dichloropropane	25.000	23.000	92.0	1.17	30	80 - 119
2,2-Dichloropropane	25.000	24.760	99.0	1.80	30	60 - 139
1,1-Dichloropropene	25.000	25.820	103	6.27	30	79 - 125
cis-1,3-Dichloropropene	25.000	22.710	90.8	6.68	30	75 - 124
trans-1,3-Dichloropropene	25.000	22.900	91.6	0.262	30	73 - 127
Ethylbenzene	25.000	26.570	106	1.05	30	79 - 121
Hexachlorobutadiene	25.000	24.820	99.3	1.95	30	66 - 134
Isopropylbenzene	25.000	26.350	101	1.77	30	72 - 131
p-Isopropyltoluene	25.000	27.470	110	5.34	30	77 - 127
Methylene chloride	25.000	26.920	108	0.186	30	74 - 124
Methyl t-butyl ether	25.000	24.840	98.4	2.07	30	71 - 124
Naphthalene	25.000	23.980	95.9	3.26	30	61 - 128
n-Propylbenzene	25.000	27.220	109	3.70	30	76 - 126
Styrene	25.000	26.320	105	0.152	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	24.600	98.4	0.162	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	25.820	103	1.68	30	71 - 121
Tetrachloroethene	25.000	24.000	96.0	0.995	30	74 - 129
Toluene	25.000	25.520	102	2.40	30	80 - 121
1,2,3-Trichlorobenzene	25.000	23.340	93.4	0.128	30	69 - 129
1,2,4-Trichlorobenzene	25.000	24.480	97.9	3.75	30	69 - 130
1,1,1-Trichloroethane	25.000	24.770	99.1	5.46	30	74 - 131
1,1,2-Trichloroethane	25.000	24.570	98.3	0.00	30	80 - 119

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	25.190	101	0.997	30	79 - 123
Trichlorofluoromethane	25.000	24.800	99.2	1.48	30	65 - 141
1,2,3-Trichloropropane	25.000	22.040	88.2	6.88	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	26.950	108	0.0742	30	70 - 136
1,2,4-Trimethylbenzene	25.000	26.780	107	5.88	30	76 - 124
1,3,5-Trimethylbenzene	25.000	26.800	107	4.66	30	75 - 124
Vinyl chloride	25.000	30.870	116	5.77	30	58 - 137
Total Xylenes	75.000	79.430	106	0.565	30	79 - 121
Acetone	320.00	299.38	93.6	1.27	30	39 - 160
Acetonitrile	160.00	152.19	95.1	0.719	30	50 - 142
Allyl chloride	32.000	38.870	121	4.53	30	68 - 130
t-Amyl Methyl ether	16.000	15.150	94.7	3.97	30	68 - 128
Benzyl chloride	32.000	32.720	102	9.04	30	42 - 138
t-Butyl alcohol	800.00	907.82	113	3.53	30	68 - 129
Carbon disulfide	32.000	43.500	136 *	8.46	30	64 - 133
Chloroprene	32.000	35.600	111	2.68	30	65 - 135
Diisopropyl ether	16.000	17.010	106	0.886	30	67 - 128
Ethyl t-butyl ether	16.000	16.220	101	4.03	30	70 - 127
2-Hexanone	320.00	301.37	94.2	3.43	30	57 - 139
Methyl ethyl ketone	160.00	188.06	118	1.48	30	56 - 143
Methyl isobutyl ketone	160.00	162.33	101	5.70	30	67 - 130
Vinyl acetate	160.00	154.53	96.6	2.96	30	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	28.290	113	79 - 120
Bromobenzene	25.000	23.950	95.8	80 - 120
Bromochloromethane	25.000	24.360	97.4	78 - 123
Bromodichloromethane	25.000	25.220	101	79 - 125
Bromoform	25.000	25.290	101	66 - 130
Bromomethane	25.000	15.830	63.3	53 - 141
n-Butylbenzene	25.000	25.780	103	75 - 128
sec-Butylbenzene	25.000	25.780	103	77 - 126
tert-Butylbenzene	25.000	23.260	93.0	78 - 124
Carbon tetrachloride	25.000	26.910	108	72 - 136
Chlorobenzene	25.000	25.670	103	82 - 118
Chloroethane	25.000	28.370	113	60 - 138
Chloroform	25.000	25.240	101	79 - 124
Chloromethane	25.000	23.530	94.1	50 - 139
2-Chlorotoluene	25.000	24.060	96.2	79 - 122
4-Chlorotoluene	25.000	25.280	101	78 - 122
Dibromochloromethane	25.000	24.630	98.5	74 - 126
1,2-Dibromo-3-chloropropane	25.000	23.480	93.9	62 - 128
1,2-Dibromoethane	25.000	25.180	101	77 - 121
Dibromomethane	25.000	26.150	105	79 - 123
1,2-Dichlorobenzene	25.000	22.230	88.9	80 - 119
1,3-Dichlorobenzene	25.000	23.280	93.1	80 - 119
1,4-Dichlorobenzene	25.000	24.480	97.9	79 - 118
Dichlorodifluoromethane	25.000	21.370	85.5	32 - 152

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Dichloroethane	25.000	26.580	106	77 - 125
1,2-Dichloroethane	25.000	25.650	103	73 - 128
1,1-Dichloroethene	25.000	27.350	109	71 - 131
cis-1,2-Dichloroethene	25.000	26.680	107	78 - 123
trans-1,2-Dichloroethene	25.000	28.340	113	75 - 124
1,2-Dichloropropane	25.000	26.760	107	78 - 122
1,3-Dichloropropane	25.000	24.630	98.5	80 - 119
2,2-Dichloropropane	25.000	26.280	105	60 - 139
1,1-Dichloropropene	25.000	27.870	111	79 - 125
cis-1,3-Dichloropropene	25.000	25.220	101	75 - 124
trans-1,3-Dichloropropene	25.000	24.480	97.9	73 - 127
Ethylbenzene	25.000	26.300	105	79 - 121
Hexachlorobutadiene	25.000	24.220	96.9	66 - 134
Isopropylbenzene	25.000	25.710	103	72 - 131
p-Isopropyltoluene	25.000	24.560	98.2	77 - 127
Methylene chloride	25.000	26.760	107	74 - 124
Methyl t-butyl ether	25.000	25.490	102	71 - 124
Naphthalene	25.000	21.930	87.7	61 - 128
n-Propylbenzene	25.000	25.370	101	76 - 126
Styrene	25.000	25.410	102	78 - 123
1,1,1,2-Tetrachloroethane	25.000	24.760	99.0	78 - 124
1,1,2,2-Tetrachloroethane	25.000	25.970	104	71 - 121
Tetrachloroethene	25.000	25.850	103	74 - 129
Toluene	25.000	27.190	109	80 - 121

AMEC Environmental & Infrastructure-
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Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2,3-Trichlorobenzene	25.000	22.150	88.6	69 - 129
1,2,4-Trichlorobenzene	25.000	22.740	91.0	69 - 130
1,1,1-Trichloroethane	25.000	27.220	109	74 - 131
1,1,2-Trichloroethane	25.000	26.330	105	80 - 119
Trichloroethene	25.000	26.180	105	79 - 123
Trichlorofluoromethane	25.000	26.490	106	65 - 141
1,2,3-Trichloropropane	25.000	23.350	93.4	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	28.840	115	70 - 136
1,2,4-Trimethylbenzene	25.000	24.170	96.7	76 - 124
1,3,5-Trimethylbenzene	25.000	24.960	99.8	75 - 124
Vinyl chloride	25.000	28.020	112	58 - 137
Total Xylenes	75.000	76.870	102	79 - 121
Acetone	320.00	329.44	103	39 - 160
Acetonitrile	160.00	171.49	107	50 - 142
Allyl chloride	32.000	40.400	126	68 - 130
t-Amyl Methyl ether	16.000	18.200	114	68 - 128
Benzyl chloride	32.000	29.250	91.4	42 - 138
t-Butyl alcohol	800.00	1042.1	130 *	68 - 129
Carbon disulfide	32.000	43.330	135 *	64 - 133
Chloroprene	32.000	38.060	119	65 - 135
Diisopropyl ether	16.000	19.230	120	67 - 128
Ethyl t-butyl ether	16.000	18.540	116	70 - 127
2-Hexanone	320.00	347.65	109	57 - 139
Methyl ethyl ketone	160.00	170.50	107	56 - 143

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1839
Laboratory ID: B[E1839-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl isobutyl ketone	160.00	177.29	111	67 - 130
Vinyl acetate	160.00	175.99	110	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1706245
Instrument: MS-V5
Matrix: Water
Calibration: 1704006

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1706245-TUN1	13APR02.D	04/13/17 07:33
Cal Standard	1706245-CAL1	13APR04.D	04/13/17 08:21
Cal Standard	1706245-CAL2	13APR05.D	04/13/17 08:44
Cal Standard	1706245-CAL3	13APR06.D	04/13/17 09:33
Cal Standard	1706245-CAL4	13APR07.D	04/13/17 09:56
Cal Standard	1706245-CAL5	13APR08.D	04/13/17 10:20
Cal Standard	1706245-CAL6	13APR09.D	04/13/17 10:43
Cal Standard	1706245-CAL9	13APR18.D	04/13/17 14:55
Cal Standard	1706245-CALA	13APR19.D	04/13/17 15:18
Cal Standard	1706245-CALB	13APR20.D	04/13/17 15:41
Cal Standard	1706245-CALC	13APR21.D	04/13/17 16:04
MS Tune	1706245-TUN2	13APR27.D	04/13/17 18:23
Cal Standard	1706245-CALD	13APR28.D	04/13/17 18:46
Cal Standard	1706245-CALE	13APR29.D	04/13/17 19:09
Cal Standard	1706245-CALF	13APR30.D	04/13/17 19:32
Cal Standard	1706245-CALG	13APR31.D	04/13/17 19:55
Cal Standard	1706245-CALH	13APR32.D	04/13/17 20:18
Cal Standard	1706245-CALI	13APR33.D	04/13/17 20:42
Cal Standard	1706245-CAL7	13APR40.D	04/14/17 04:37
Cal Standard	1706245-CAL8	13APR41.D	04/14/17 05:00

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708684
Instrument: MS-V5
Matrix: Water
Calibration: 1704006

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1708684-ICV1	13APR12.D	04/13/17 12:37
Initial Cal Blank	1708684-ICB1	13APR14.D	04/13/17 13:23
Initial Cal Check	1708684-ICV2	13APR42.D	04/14/17 05:24
Initial Cal Blank	1708684-ICB2	13APR43.D	04/14/17 05:47
MS Tune	1708684-TUN1	17MAY01.D	05/17/17 06:32
Calibration Check	1708684-CCV1	17MAY02.D	05/17/17 06:55
Calibration Check	1708684-CCV2	17MAY03.D	05/17/17 07:18
Calibration Blank	1708684-CCB1	17MAY05.D	05/17/17 08:04
Blank	B[E1839-BLK1	17MAY06.D	05/17/17 08:27
27MW09_170511	1713059-04	17MAY07.D	05/17/17 08:50
LCS	B[E1839-BS1	17MAY08.D	05/17/17 09:13
27MW09_170511	B[E1839-MS1	17MAY09.D	05/17/17 09:37
27MW09_170511	B[E1839-MSD1	17MAY10.D	05/17/17 10:00
TB08_170511	1713059-01	17MAY13.D	05/17/17 11:09
EB19_170511	1713059-02	17MAY14.D	05/17/17 11:32
EB20_170511	1713059-03	17MAY15.D	05/17/17 11:55
27MW10_170511	1713059-05	17MAY16.D	05/17/17 12:18
27MW12_170511	1713059-08	17MAY19.D	05/17/17 13:28
27MW13_170511	1713059-09	17MAY20.D	05/17/17 13:51
27MW14_170511	1713059-10	17MAY21.D	05/17/17 14:14
27MW11_170511	1713059-06	17MAY29.D	05/17/17 17:19
DUP10_170511	1713059-07	17MAY30.D	05/17/17 17:42
MS Tune	1708684-TUN2	17MAY32.D	05/17/17 18:28
Calibration Check	1708684-CCV4	17MAY33.D	05/17/17 18:51
Calibration Check	1708684-CCV5	17MAY34.D	05/17/17 19:14
Calibration Blank	1708684-CCB2	17MAY36.D	05/17/17 20:01

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	13APR02.D	Injection Date:	04/13/17
Instrument ID:	MS-V5	Injection Time:	07:33
Sequence:	1706245	Lab Sample ID:	1706245-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	17	PASS
Mass 75	30 - 60% of Mass 95	47.4	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	5.46	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	71.8	PASS
Mass 175	5 - 9% of Mass 174	6.35	PASS
Mass 176	95 - 101% of Mass 174	98.5	PASS
Mass 177	5 - 9% of Mass 176	6.74	PASS

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	13APR27.D	Injection Date:	04/13/17
Instrument ID:	MS-V5	Injection Time:	18:23
Sequence:	1706245	Lab Sample ID:	1706245-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	17.1	PASS
Mass 75	30 - 60% of Mass 95	40.5	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.39	PASS
Mass 173	Less than 2% of Mass 174	0.695	PASS
Mass 174	50 - 100% of Mass 95	76.6	PASS
Mass 175	5 - 9% of Mass 174	6.63	PASS
Mass 176	95 - 101% of Mass 174	99.6	PASS
Mass 177	5 - 9% of Mass 176	5.22	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	17MAY01.D	Injection Date:	05/17/17
Instrument ID:	MS-V5	Injection Time:	06:32
Sequence:	1708684	Lab Sample ID:	1708684-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	16.9	PASS
Mass 75	30 - 60% of Mass 95	42.2	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	8.42	PASS
Mass 173	Less than 2% of Mass 174	1.48	PASS
Mass 174	50 - 100% of Mass 95	68.9	PASS
Mass 175	5 - 9% of Mass 174	7.89	PASS
Mass 176	95 - 101% of Mass 174	98.8	PASS
Mass 177	5 - 9% of Mass 176	5.36	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	17MAY32.D	Injection Date:	05/17/17
Instrument ID:	MS-V5	Injection Time:	18:28
Sequence:	1708684	Lab Sample ID:	1708684-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	19.9	PASS
Mass 75	30 - 60% of Mass 95	50.5	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	5.91	PASS
Mass 173	Less than 2% of Mass 174	0.816	PASS
Mass 174	50 - 100% of Mass 95	71.9	PASS
Mass 175	5 - 9% of Mass 174	5.88	PASS
Mass 176	95 - 101% of Mass 174	101	PASS
Mass 177	5 - 9% of Mass 176	5.4	PASS

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	13APR12.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	04/13/17
Lab Sample ID:	1708684-ICV1	Injection Time:	12:37

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	24.420	1.887683	1.843803		-2.3	20
Bromobenzene	A	25.000	24.700	1.003313	0.9911017		-1.2	20
Bromochloromethane	L	25.000	24.910	0.1546913	0.1693387		-0.4	20
Bromodichloromethane	A	25.000	25.910	0.2977778	0.3086513		3.7	20
Bromoform	A	25.000	26.840	0.2748771	0.2951577	0.1	7.4	20
Bromomethane	A	25.000	27.160	0.3661249	0.3977434		8.6	20
n-Butylbenzene	A	25.000	25.900	3.295752	3.414843		3.6	20
sec-Butylbenzene	A	25.000	24.560	4.955924	4.869312		-1.7	20
tert-Butylbenzene	A	25.000	25.260	4.018533	4.059901		1.0	20
Carbon tetrachloride	A	25.000	24.690	0.5127134	0.5063738		-1.2	20
Chlorobenzene	A	25.000	26.170	2.711419	2.838242	0.3	4.7	20
Chloroethane	A	25.000	25.950	0.3830912	0.3976634		3.8	20
Chloroform	A	25.000	23.800	0.8006886	0.7622973		-4.8	20
Chloromethane	A	25.000	26.840	0.6351392	0.6820116	0.1	7.4	20
2-Chlorotoluene	A	25.000	24.480	3.570099	3.495409		-2.1	20
4-Chlorotoluene	A	25.000	25.860	3.021665	3.125265		3.4	20
Dibromochloromethane	A	25.000	25.030	0.1637262	0.1638943		0.1	20
1,2-Dibromo-3-chloropropane	L	25.000	21.660	6.201592E-02	6.241724E-02		-13.4	20
1,2-Dibromoethane	A	25.000	24.620	0.1354329	0.1333985		-1.5	20
Dibromomethane	A	25.000	26.720	9.066938E-02	9.692236E-02		6.9	20
1,2-Dichlorobenzene	A	25.000	24.230	1.489772	1.444133		-3.1	20
1,3-Dichlorobenzene	A	25.000	25.270	1.73685	1.755754		1.1	20
1,4-Dichlorobenzene	A	25.000	25.340	1.686436	1.709139		1.3	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	13APR12.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	04/13/17
Lab Sample ID:	1708684-ICV1	Injection Time:	12:37

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	29.220	0.4502807	0.5262452		16.9	20
1,1-Dichloroethane	A	25.000	24.470	1.012293	0.990982	0.1	-2.1	20
1,2-Dichloroethane	A	25.000	22.210	0.4213557	0.3743754		-11.1	20
1,1-Dichloroethene	A	25.000	24.330	0.7803462	0.7593795		-2.7	20
cis-1,2-Dichloroethene	A	25.000	25.260	0.5025444	0.5077221		1.0	20
trans-1,2-Dichloroethene	A	25.000	26.410	0.4730649	0.4997947		5.7	20
1,2-Dichloropropane	A	25.000	25.930	0.3276162	0.3398359		3.7	20
1,3-Dichloropropane	A	25.000	23.950	0.2413329	0.231224		-4.2	20
2,2-Dichloropropane	A	25.000	24.300	0.7224841	0.7021583		-2.8	20
1,1-Dichloropropene	A	25.000	24.850	0.6258864	0.622148		-0.6	20
cis-1,3-Dichloropropene	A	25.000	24.640	0.3905003	0.3849215		-1.4	20
trans-1,3-Dichloropropene	A	25.000	23.710	0.2733371	0.2592798		-5.1	20
Ethylbenzene	A	25.000	26.220	1.699587	1.782748		4.9	20
Hexachlorobutadiene	A	25.000	22.930	0.7200311	0.6605206		-8.3	20
Isopropylbenzene	A	25.000	23.750	4.923007	4.67777		-5.0	20
p-Isopropyltoluene	A	25.000	25.550	3.96636	4.054025		2.2	20
Methylene chloride	A	25.000	25.970	0.3804415	0.3952045		3.9	20
Methyl t-butyl ether	A	25.000	23.110	0.6281389	0.5807674		-7.5	20
Naphthalene	A	25.000	22.540	1.328077	1.197591		-9.8	20
n-Propylbenzene	A	25.000	25.630	5.19792	5.328458		2.5	20
Styrene	A	25.000	25.000	2.843813	2.843941		0.005	20
1,1,1,2-Tetrachloroethane	A	25.000	25.190	0.8486375	0.855057		0.8	20
1,1,2,2-Tetrachloroethane	A	25.000	26.720	0.4656763	0.4976645	0.3	6.9	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	13APR12.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	04/13/17
Lab Sample ID:	1708684-ICV1	Injection Time:	12:37

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	25.210	0.3259381	0.3286366		0.8	20
Toluene	A	25.000	26.150	0.7401395	0.7742629		4.6	20
1,2,3-Trichlorobenzene	A	25.000	22.230	0.9551125	0.8491877		-11.1	20
1,2,4-Trichlorobenzene	A	25.000	22.060	1.1359	1.002306		-11.8	20
1,1,1-Trichloroethane	A	25.000	24.680	0.7120158	0.7027889		-1.3	20
1,1,2-Trichloroethane	A	25.000	24.140	0.1435582	0.1386127		-3.4	20
Trichloroethene	A	25.000	25.180	0.3318691	0.3342875		0.7	20
Trichlorofluoromethane	A	25.000	25.240	0.6457678	0.6520363		1.0	20
1,2,3-Trichloropropane	A	25.000	24.620	0.1168522	0.1150963		-1.5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	25.910	0.399242	0.4137912		3.6	20
1,2,4-Trimethylbenzene	A	25.000	24.800	3.551572	3.523196		-0.8	20
1,3,5-Trimethylbenzene	A	25.000	25.060	3.68608	3.694651		0.2	20
Vinyl chloride	A	25.000	26.100	0.6507252	0.6793315		4.4	20
Total Xylenes	A	75.000	76.390	2.043518	2.081342		1.9	20
Hexachloroethane	A	25.000	27.710	0.6024525	0.6676921		10.8	20
p- & m-Xylenes	A	50.000	51.560	2.045161	2.108991		3.1	20
o-Xylene	A	25.000	24.830	2.040231	2.026044		-0.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	13APR42.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	04/14/17
Lab Sample ID:	1708684-ICV2	Injection Time:	05:24

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	298.25	3.573499E-02	3.330612E-02		-6.8	20
Acetonitrile	A	160.00	151.79	1.704825E-02	0.0161734		-5.1	20
Acrolein	A	200.00	190.23	1.919846E-02	1.826017E-02		-4.9	20
Acrylonitrile	A	80.000	79.420	6.331572E-02	6.285737E-02		-0.7	20
Allyl chloride	A	32.000	30.180	0.8608162	0.8119723		-5.7	20
t-Amyl Methyl ether	A	16.000	17.210	0.6956911	0.7482039		7.5	20
Benzyl chloride	A	32.000	36.310	0.7824284	0.8876969		13.5	20
t-Butyl alcohol	A	800.00	850.33	1.124347E-02	1.195079E-02		6.3	20
Carbon disulfide	L	32.000	35.380	1.45864	1.395498		10.6	20
Chloroprene	A	32.000	28.880	0.8922561	0.8052276		-9.8	20
trans-1,4-Dichloro-2-butene	A	80.000	94.520	0.140543	0.1660452		18.1	20
Diisopropyl ether	A	16.000	17.370	0.3538405	0.3841226		8.6	20
Ethanol	A	4000.0	3733.2	1.378863E-03	1.286885E-03		-6.7	20
Ethyl methacrylate	A	80.000	85.770	0.1529697	0.1640021		7.2	20
Ethyl t-butyl ether	A	16.000	16.350	1.104611	1.128682		2.2	20
2-Hexanone	A	320.00	322.94	5.538837E-02	5.589743E-02		0.9	20
Isobutanol	A	400.00	408.19	5.153952E-03	5.259481E-03		2.0	20
Methacrylonitrile	A	160.00	172.71	6.414499E-02	6.924224E-02		7.9	20
Methyl ethyl ketone	A	160.00	167.97	6.802169E-02	7.141085E-02		5.0	20
Methyl iodide	A	32.000	29.450	0.5178102	0.4765239		-8.0	20
Methyl isobutyl ketone	A	160.00	163.21	8.595157E-02	8.767359E-02		2.0	20
Methyl methacrylate	A	80.000	86.160	7.240331E-02	7.797677E-02		7.7	20
Propionitrile	A	400.00	404.58	2.150127E-02	2.174736E-02		1.1	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	13APR42.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	04/14/17
Lab Sample ID:	1708684-ICV2	Injection Time:	05:24

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Vinyl acetate	A	160.00	144.93	0.4098685	0.3712544		-9.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY02.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV1	Injection Time:	06:55

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	27.700	1.887683	2.091653		10.8	20	
Bromobenzene	A	25.000	26.400	1.003313	1.059606		5.6	20	
Bromochloromethane	L	25.000	26.950	0.1546913	0.1839547		7.8	20	
Bromodichloromethane	A	25.000	26.900	0.2977778	0.3203855		7.6	20	
Bromoform	A	25.000	28.880	0.2748771	0.3174971	0.1	15.5	20	
Bromomethane	A	25.000	13.200	0.3661249	0.1932698		-47.2	20	*
n-Butylbenzene	A	25.000	28.340	3.295752	3.73607		13.4	20	
sec-Butylbenzene	A	25.000	27.970	4.955924	5.544678		11.9	20	
tert-Butylbenzene	A	25.000	27.660	4.018533	4.446403		10.6	20	
Carbon tetrachloride	A	25.000	29.190	0.5127134	0.5986222		16.8	20	
Chlorobenzene	A	25.000	27.070	2.711419	2.936362	0.3	8.3	20	
Chloroethane	A	25.000	25.380	0.3830912	0.3889152		1.5	20	
Chloroform	A	25.000	26.860	0.8006886	0.8601032		7.4	20	
Chloromethane	A	25.000	24.230	0.6351392	0.615651	0.1	-3.1	20	
2-Chlorotoluene	A	25.000	25.820	3.570099	3.687813		3.3	20	
4-Chlorotoluene	A	25.000	28.070	3.021665	3.393253		12.3	20	
Dibromochloromethane	A	25.000	24.810	0.1637262	0.1624843		-0.8	20	
1,2-Dibromo-3-chloropropane	L	25.000	24.120	6.201592E-02	7.057772E-02		-3.5	20	
1,2-Dibromoethane	A	25.000	23.670	0.1354329	0.128234		-5.3	20	
Dibromomethane	A	25.000	26.220	9.066938E-02	9.509037E-02		4.9	20	
1,2-Dichlorobenzene	A	25.000	25.420	1.489772	1.515021		1.7	20	
1,3-Dichlorobenzene	A	25.000	26.510	1.73685	1.842046		6.1	20	
1,4-Dichlorobenzene	A	25.000	27.030	1.686436	1.823685		8.1	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY02.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV1	Injection Time:	06:55

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	24.790	0.4502807	0.4464984		-0.8	20
1,1-Dichloroethane	A	25.000	27.500	1.012293	1.113353	0.1	10.0	20
1,2-Dichloroethane	A	25.000	28.120	0.4213557	0.4739844		12.5	20
1,1-Dichloroethene	A	25.000	25.710	0.7803462	0.8025319		2.8	20
cis-1,2-Dichloroethene	A	25.000	27.330	0.5025444	0.5492961		9.3	20
trans-1,2-Dichloroethene	A	25.000	25.310	0.4730649	0.4789738		1.2	20
1,2-Dichloropropane	A	25.000	27.200	0.3276162	0.3564954		8.8	20
1,3-Dichloropropane	A	25.000	23.860	0.2413329	0.230376		-4.5	20
2,2-Dichloropropane	A	25.000	27.320	0.7224841	0.7895404		9.3	20
1,1-Dichloropropene	A	25.000	28.110	0.6258864	0.7036873		12.4	20
cis-1,3-Dichloropropene	A	25.000	22.820	0.3905003	0.356466		-8.7	20
trans-1,3-Dichloropropene	A	25.000	24.420	0.2733371	0.2669712		-2.3	20
Ethylbenzene	A	25.000	27.760	1.699587	1.887495		11.1	20
Hexachlorobutadiene	A	25.000	27.390	0.7200311	0.7889422		9.6	20
Isopropylbenzene	A	25.000	26.210	4.923007	5.162178		4.9	20
p-Isopropyltoluene	A	25.000	27.450	3.96636	4.354372		9.8	20
Methylene chloride	A	25.000	24.620	0.3804415	0.374731		-1.5	20
Methyl t-butyl ether	A	25.000	23.750	0.6281389	0.596826		-5.0	20
Naphthalene	A	25.000	24.250	1.328077	1.288038		-3.0	20
n-Propylbenzene	A	25.000	26.760	5.19792	5.563801		7.0	20
Styrene	A	25.000	27.410	2.843813	3.117543		9.6	20
1,1,1,2-Tetrachloroethane	A	25.000	26.730	0.8486375	0.9073994		6.9	20
1,1,2,2-Tetrachloroethane	A	25.000	27.630	0.4656763	0.5147293	0.3	10.5	20

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY02.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV1	Injection Time:	06:55

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	24.430	0.3259381	0.3185507		-2.3	20
Toluene	A	25.000	24.480	0.7401395	0.7246486		-2.1	20
1,2,3-Trichlorobenzene	A	25.000	25.530	0.9551125	0.975461		2.1	20
1,2,4-Trichlorobenzene	A	25.000	27.180	1.1359	1.235107		8.7	20
1,1,1-Trichloroethane	A	25.000	28.210	0.7120158	0.803436		12.8	20
1,1,2-Trichloroethane	A	25.000	24.510	0.1435582	0.1407358		-2.0	20
Trichloroethene	A	25.000	26.260	0.3318691	0.3485426		5.0	20
Trichlorofluoromethane	A	25.000	25.310	0.6457678	0.653724		1.2	20
1,2,3-Trichloropropane	A	25.000	29.670	0.1168522	0.1386923		18.7	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	25.130	0.399242	0.4013249		0.5	20
1,2,4-Trimethylbenzene	A	25.000	27.360	3.551572	3.886204		9.4	20
1,3,5-Trimethylbenzene	A	25.000	26.640	3.68608	3.928475		6.6	20
Vinyl chloride	A	25.000	25.140	0.6507252	0.6543419		0.6	20
Total Xylenes	A	75.000	82.600	2.043518	2.250822		10.1	20
Hexachloroethane	A	25.000	27.720	0.6024525	0.6681146		10.9	20
p- & m-Xylenes	A	50.000	55.620	2.045161	2.27513		11.2	20
o-Xylene	A	25.000	26.980	2.040231	2.202205		7.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY03.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV2	Injection Time:	07:18

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	336.87	3.573499E-02	3.761937E-02		5.3	20	
Acetonitrile	A	160.00	147.69	1.704825E-02	1.573629E-02		-7.7	20	
Acrolein	A	200.00	304.08	1.919846E-02	2.918907E-02		52.0	20	*
Acrylonitrile	A	80.000	83.300	6.331572E-02	6.593019E-02		4.1	20	
Allyl chloride	A	32.000	33.650	0.8608162	0.9053126		5.2	20	
t-Amyl Methyl ether	A	16.000	15.680	0.6956911	0.6816776		-2.0	20	
Benzyl chloride	A	32.000	29.920	0.7824284	0.7314706		-6.5	20	
t-Butyl alcohol	A	800.00	840.46	1.124347E-02	1.181208E-02		5.1	20	
Carbon disulfide	L	32.000	33.750	1.45864	1.336478		5.5	20	
Chloroprene	A	32.000	33.010	0.8922561	0.9203768		3.2	20	
trans-1,4-Dichloro-2-butene	A	80.000	75.730	0.140543	0.1330354		-5.3	20	
Diisopropyl ether	A	16.000	15.550	0.3538405	0.3439924		-2.8	20	
Ethanol	A	4000.0	4279.5	1.378863E-03	1.475216E-03		7.0	20	
Ethyl methacrylate	A	80.000	83.040	0.1529697	0.1587916		3.8	20	
Ethyl t-butyl ether	A	16.000	16.600	1.104611	1.145881		3.7	20	
2-Hexanone	A	320.00	360.41	5.538837E-02	6.238208E-02		12.6	20	
Isobutanol	A	400.00	467.01	5.153952E-03	6.017347E-03		16.8	20	
Methacrylonitrile	A	160.00	169.26	6.414499E-02	6.785918E-02		5.8	20	
Methyl ethyl ketone	A	160.00	169.87	6.802169E-02	7.221825E-02		6.2	20	
Methyl iodide	A	32.000	20.680	0.5178102	0.3346289		-35.4	20	*
Methyl isobutyl ketone	A	160.00	183.42	8.595157E-02	0.0985335		14.6	20	
Methyl methacrylate	A	80.000	81.670	7.240331E-02	7.391732E-02		2.1	20	
Propionitrile	A	400.00	436.29	2.150127E-02	2.345223E-02		9.1	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY03.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV2	Injection Time:	07:18

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Vinyl acetate	A	160.00	154.84	0.4098685	0.3966379		-3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY33.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV4	Injection Time:	18:51

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	26.290	1.887683	1.985345		5.2	20	
Bromobenzene	A	25.000	24.090	1.003313	0.9666305		-3.7	20	
Bromochloromethane	L	25.000	25.920	0.1546913	0.176541		3.7	20	
Bromodichloromethane	A	25.000	25.600	0.2977778	0.3049277		2.4	20	
Bromoform	A	25.000	26.630	0.2748771	0.2928096	0.1	6.5	20	
Bromomethane	A	25.000	16.160	0.3661249	0.2366958		-35.4	20	*
n-Butylbenzene	A	25.000	24.500	3.295752	3.229624		-2.0	20	
sec-Butylbenzene	A	25.000	24.230	4.955924	4.802533		-3.1	20	
tert-Butylbenzene	A	25.000	23.820	4.018533	3.829439		-4.7	20	
Carbon tetrachloride	A	25.000	24.060	0.5127134	0.4933984		-3.8	20	
Chlorobenzene	A	25.000	24.580	2.711419	2.666153	0.3	-1.7	20	
Chloroethane	A	25.000	27.470	0.3830912	0.4209287		9.9	20	
Chloroform	A	25.000	25.150	0.8006886	0.8053454		0.6	20	
Chloromethane	A	25.000	23.670	0.6351392	0.6013122	0.1	-5.3	20	
2-Chlorotoluene	A	25.000	23.710	3.570099	3.386567		-5.1	20	
4-Chlorotoluene	A	25.000	24.520	3.021665	2.96421		-1.9	20	
Dibromochloromethane	A	25.000	26.280	0.1637262	0.172086		5.1	20	
1,2-Dibromo-3-chloropropane	L	25.000	23.950	6.201592E-02	7.002155E-02		-4.2	20	
1,2-Dibromoethane	A	25.000	25.040	0.1354329	0.1356324		0.1	20	
Dibromomethane	A	25.000	27.310	9.066938E-02	9.904878E-02		9.2	20	
1,2-Dichlorobenzene	A	25.000	24.210	1.489772	1.442446		-3.2	20	
1,3-Dichlorobenzene	A	25.000	23.530	1.73685	1.634839		-5.9	20	
1,4-Dichlorobenzene	A	25.000	23.960	1.686436	1.616263		-4.2	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY33.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV4	Injection Time:	18:51

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	24.680	0.4502807	0.444493		-1.3	20
1,1-Dichloroethane	A	25.000	25.750	1.012293	1.0426	0.1	3.0	20
1,2-Dichloroethane	A	25.000	26.470	0.4213557	0.4461956		5.9	20
1,1-Dichloroethene	A	25.000	25.530	0.7803462	0.7969852		2.1	20
cis-1,2-Dichloroethene	A	25.000	25.840	0.5025444	0.5194235		3.4	20
trans-1,2-Dichloroethene	A	25.000	25.670	0.4730649	0.4857425		2.7	20
1,2-Dichloropropane	A	25.000	25.290	0.3276162	0.3313612		1.1	20
1,3-Dichloropropane	A	25.000	25.270	0.2413329	0.2439291		1.1	20
2,2-Dichloropropane	A	25.000	21.730	0.7224841	0.6280103		-13.1	20
1,1-Dichloropropene	A	25.000	25.290	0.6258864	0.6331718		1.2	20
cis-1,3-Dichloropropene	A	25.000	24.280	0.3905003	0.3792309		-2.9	20
trans-1,3-Dichloropropene	A	25.000	24.230	0.2733371	0.2649183		-3.1	20
Ethylbenzene	A	25.000	24.870	1.699587	1.690949		-0.5	20
Hexachlorobutadiene	A	25.000	22.940	0.7200311	0.660653		-8.2	20
Isopropylbenzene	A	25.000	24.000	4.923007	4.726		-4.0	20
p-Isopropyltoluene	A	25.000	24.500	3.96636	3.886759		-2.0	20
Methylene chloride	A	25.000	26.870	0.3804415	0.4088493		7.5	20
Methyl t-butyl ether	A	25.000	25.840	0.6281389	0.6491297		3.3	20
Naphthalene	A	25.000	24.000	1.328077	1.274964		-4.0	20
n-Propylbenzene	A	25.000	24.410	5.19792	5.075401		-2.4	20
Styrene	A	25.000	24.620	2.843813	2.800525		-1.5	20
1,1,1,2-Tetrachloroethane	A	25.000	24.060	0.8486375	0.8167771		-3.8	20
1,1,2,2-Tetrachloroethane	A	25.000	26.770	0.4656763	0.498601	0.3	7.1	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY33.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV4	Injection Time:	18:51

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	22.900	0.3259381	0.2984995		-8.4	20
Toluene	A	25.000	25.670	0.7401395	0.7598342		2.7	20
1,2,3-Trichlorobenzene	A	25.000	23.120	0.9551125	0.8832323		-7.5	20
1,2,4-Trichlorobenzene	A	25.000	23.600	1.1359	1.072327		-5.6	20
1,1,1-Trichloroethane	A	25.000	25.030	0.7120158	0.7129677		0.1	20
1,1,2-Trichloroethane	A	25.000	26.050	0.1435582	0.1495846		4.2	20
Trichloroethene	A	25.000	25.070	0.3318691	0.3328514		0.3	20
Trichlorofluoromethane	A	25.000	25.040	0.6457678	0.6468371		0.2	20
1,2,3-Trichloropropane	A	25.000	24.100	0.1168522	0.1126632		-3.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	25.700	0.399242	0.4104913		2.8	20
1,2,4-Trimethylbenzene	A	25.000	24.190	3.551572	3.436968		-3.2	20
1,3,5-Trimethylbenzene	A	25.000	24.270	3.68608	3.577884		-2.9	20
Vinyl chloride	A	25.000	25.900	0.6507252	0.6740691		3.6	20
Total Xylenes	A	75.000	72.400	2.043518	1.972547		-3.5	20
Hexachloroethane	A	25.000	25.850	0.6024525	0.6228309		3.4	20
p- & m-Xylenes	A	50.000	48.420	2.045161	1.980345		-3.2	20
o-Xylene	A	25.000	23.980	2.040231	1.956951		-4.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY34.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV5	Injection Time:	19:14

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	343.60	3.573499E-02	3.837089E-02		7.4	20	
Acetonitrile	A	160.00	136.29	1.704825E-02	1.452215E-02		-14.8	20	
Acrolein	A	200.00	277.27	1.919846E-02	2.661609E-02		38.6	20	*
Acrylonitrile	A	80.000	86.530	6.331572E-02	6.848379E-02		8.2	20	
Allyl chloride	A	32.000	32.600	0.8608162	0.8768749		1.9	20	
t-Amyl Methyl ether	A	16.000	17.070	0.6956911	0.7421199		6.7	20	
Benzyl chloride	A	32.000	22.470	0.7824284	0.549349		-29.8	20	*
t-Butyl alcohol	A	800.00	808.09	1.124347E-02	1.135711E-02		1.0	20	
Carbon disulfide	L	32.000	34.930	1.45864	1.379137		9.2	20	
Chloroprene	A	32.000	31.520	0.8922561	0.8787927		-1.5	20	
trans-1,4-Dichloro-2-butene	A	80.000	69.730	0.140543	0.1224929		-12.8	20	
Diisopropyl ether	A	16.000	16.690	0.3538405	0.3690065		4.3	20	
Ethanol	A	4000.0	3414.0	1.378863E-03	1.176873E-03		-14.6	20	
Ethyl methacrylate	A	80.000	81.610	0.1529697	0.156057		2.0	20	
Ethyl t-butyl ether	A	16.000	17.130	1.104611	1.182561		7.1	20	
2-Hexanone	A	320.00	330.65	5.538837E-02	0.0572318		3.3	20	
Isobutanol	A	400.00	403.58	5.153952E-03	5.200132E-03		0.9	20	
Methacrylonitrile	A	160.00	172.15	6.414499E-02	6.901474E-02		7.6	20	
Methyl ethyl ketone	A	160.00	172.77	6.802169E-02	7.344957E-02		8.0	20	
Methyl iodide	A	32.000	23.150	0.5178102	0.3746158		-27.7	20	*
Methyl isobutyl ketone	A	160.00	172.53	8.595157E-02	9.268142E-02		7.8	20	
Methyl methacrylate	A	80.000	78.100	7.240331E-02	0.0706832		-2.4	20	
Propionitrile	A	400.00	415.60	2.150127E-02	2.233984E-02		3.9	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1704006
Lab File ID:	17MAY34.D	Calibration Date:	04/13/17 10:00
Sequence:	1708684	Injection Date:	05/17/17
Lab Sample ID:	1708684-CCV5	Injection Time:	19:14

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Vinyl acetate	A	160.00	112.94	0.4098685	0.2893179		-29.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1706245
Matrix: Water

SDG: 1713059
Project: Alameda
Instrument: MS-V5
Calibration: 1704006

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (1706245-CAL1)			Lab File ID: 13APR04.D		Analyzed: 04/13/17 08:21			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100		6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	106		10.35	10.35	0.0000	+/-1.0	
Cal Standard (1706245-CAL2)			Lab File ID: 13APR05.D		Analyzed: 04/13/17 08:44			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103		6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	103		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103		10.35	10.35	0.0000	+/-1.0	
Cal Standard (1706245-CAL3)			Lab File ID: 13APR06.D		Analyzed: 04/13/17 09:33			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105		6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.35	10.35	0.0000	+/-1.0	
Cal Standard (1706245-CAL4)			Lab File ID: 13APR07.D		Analyzed: 04/13/17 09:56			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.6		6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	104		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.3		10.35	10.35	0.0000	+/-1.0	
Cal Standard (1706245-CAL5)			Lab File ID: 13APR08.D		Analyzed: 04/13/17 10:20			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.4		6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	102		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104		10.35	10.35	0.0000	+/-1.0	
Cal Standard (1706245-CAL6)			Lab File ID: 13APR09.D		Analyzed: 04/13/17 10:43			
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.9		6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104		10.35	10.35	0.0000	+/-1.0	

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Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1708684
Matrix: Water

SDG: 1713059
Project: Alameda
Instrument: MS-V5
Calibration: 1704006

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1708684-ICV1)			Lab File ID: 13APR12.D		Analyzed: 04/13/17 12:37			
1,2-Dichloroethane-d4 (Surrogate)	10.000	86.8	81 - 118	6.93	6.92	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	103	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.7	85 - 114	10.35	10.35	0.0000	+/-1.0	
Initial Cal Blank (1708684-ICB1)			Lab File ID: 13APR14.D		Analyzed: 04/13/17 13:23			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.8	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.0	85 - 114	10.34	10.35	-0.0100	+/-1.0	
Calibration Check (1708684-CCV1)			Lab File ID: 17MAY02.D		Analyzed: 05/17/17 06:55			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	91.2	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.3	85 - 114	10.35	10.35	0.0000	+/-1.0	
Calibration Blank (1708684-CCB1)			Lab File ID: 17MAY05.D		Analyzed: 05/17/17 08:04			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.5	81 - 118	6.91	6.92	-0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.5	85 - 114	10.34	10.35	-0.0100	+/-1.0	
Blank (B[E1839-BLK1)			Lab File ID: 17MAY06.D		Analyzed: 05/17/17 08:27			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.6	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.7	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.7	85 - 114	10.35	10.35	0.0000	+/-1.0	
27MW09_170511 (1713059-04)			Lab File ID: 17MAY07.D		Analyzed: 05/17/17 08:50			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.5	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.34	10.35	-0.0100	+/-1.0	
LCS (B[E1839-BS1)			Lab File ID: 17MAY08.D		Analyzed: 05/17/17 09:13			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.8	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	91.6	85 - 114	10.34	10.35	-0.0100	+/-1.0	

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708684
Instrument: MS-V5
Matrix: Water
Calibration: 1704006

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike (B[E1839-MS1)			Lab File ID: 17MAY09.D		Analyzed: 05/17/17 09:37			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.8	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.9	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.7	85 - 114	10.35	10.35	0.0000	+/-1.0	
Matrix Spike Dup (B[E1839-MSD1)			Lab File ID: 17MAY10.D		Analyzed: 05/17/17 10:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.2	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	92.9	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.0	85 - 114	10.34	10.35	-0.0100	+/-1.0	
TB08_170511 (1713059-01)			Lab File ID: 17MAY13.D		Analyzed: 05/17/17 11:09			
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.7	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.5	85 - 114	10.34	10.35	-0.0100	+/-1.0	
EB19_170511 (1713059-02)			Lab File ID: 17MAY14.D		Analyzed: 05/17/17 11:32			
1,2-Dichloroethane-d4 (Surrogate)	10.000	89.3	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.2	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.8	85 - 114	10.34	10.35	-0.0100	+/-1.0	
EB20_170511 (1713059-03)			Lab File ID: 17MAY15.D		Analyzed: 05/17/17 11:55			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.5	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.6	85 - 114	10.35	10.35	0.0000	+/-1.0	
27MW10_170511 (1713059-05)			Lab File ID: 17MAY16.D		Analyzed: 05/17/17 12:18			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.7	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.9	85 - 114	10.34	10.35	-0.0100	+/-1.0	
27MW12_170511 (1713059-08)			Lab File ID: 17MAY19.D		Analyzed: 05/17/17 13:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.5	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.1	85 - 114	10.34	10.35	-0.0100	+/-1.0	

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San Diego, CA 92123

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SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708684
Instrument: MS-V5
Matrix: Water
Calibration: 1704006

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
27MW13_170511 (1713059-09)			Lab File ID: 17MAY20.D		Analyzed: 05/17/17 13:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.8	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.8	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.3	85 - 114	10.34	10.35	-0.0100	+/-1.0	
27MW14_170511 (1713059-10)			Lab File ID: 17MAY21.D		Analyzed: 05/17/17 14:14			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.9	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.6	85 - 114	10.34	10.35	-0.0100	+/-1.0	
27MW11_170511 (1713059-06)			Lab File ID: 17MAY29.D		Analyzed: 05/17/17 17:19			
1,2-Dichloroethane-d4 (Surrogate)	10.000	109	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	102	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.6	85 - 114	10.34	10.35	-0.0100	+/-1.0	
DUP10_170511 (1713059-07)			Lab File ID: 17MAY30.D		Analyzed: 05/17/17 17:42			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	102	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.2	85 - 114	10.34	10.35	-0.0100	+/-1.0	
Calibration Check (1708684-CCV4)			Lab File ID: 17MAY33.D		Analyzed: 05/17/17 18:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	94.9	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.5	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.0	85 - 114	10.34	10.35	-0.0100	+/-1.0	
Calibration Blank (1708684-CCB2)			Lab File ID: 17MAY36.D		Analyzed: 05/17/17 20:01			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.3	81 - 118	6.92	6.92	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	89 - 112	8.6	8.61	-0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	91.0	85 - 114	10.34	10.35	-0.0100	+/-1.0	

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Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1706245
Matrix: Water

SDG: 1713059
Project: Alameda
Instrument: MS-V5
Calibration: 1704006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1706245-CAL1)			Lab File ID: 13APR04.D			Analyzed: 04/13/17 08:21			
Pentafluorobenzene (IS)	174858	6.58	161320	6.58	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	61173	9.62	62788	9.62	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	249655	7.38	238971	7.39	104	50 - 200	-0.0100	+/-0.50	
Cal Standard (1706245-CAL2)			Lab File ID: 13APR05.D			Analyzed: 04/13/17 08:44			
Pentafluorobenzene (IS)	167295	6.58	161320	6.58	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	61313	9.62	62788	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	244919	7.38	238971	7.39	102	50 - 200	-0.0100	+/-0.50	
Cal Standard (1706245-CAL3)			Lab File ID: 13APR06.D			Analyzed: 04/13/17 09:33			
Pentafluorobenzene (IS)	153902	6.59	161320	6.58	95	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	58196	9.62	62788	9.62	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	230473	7.39	238971	7.39	96	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CAL4)			Lab File ID: 13APR07.D			Analyzed: 04/13/17 09:56			
Pentafluorobenzene (IS)	161320	6.58	161320	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62788	9.62	62788	9.62	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	238971	7.39	238971	7.39	100	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CAL5)			Lab File ID: 13APR08.D			Analyzed: 04/13/17 10:20			
Pentafluorobenzene (IS)	168099	6.58	161320	6.58	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66204	9.62	62788	9.62	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	262475	7.39	238971	7.39	110	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CAL6)			Lab File ID: 13APR09.D			Analyzed: 04/13/17 10:43			
Pentafluorobenzene (IS)	148196	6.58	161320	6.58	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	54602	9.62	62788	9.62	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	234448	7.39	238971	7.39	98	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CAL9)			Lab File ID: 13APR18.D			Analyzed: 04/13/17 14:55			
Pentafluorobenzene (IS)	175664	6.58	161320	6.58	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66448	9.62	62788	9.62	106	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	256828	7.39	238971	7.39	107	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1706245
Instrument: MS-V5
Matrix: Water
Calibration: 1704006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1706245-CALA)			Lab File ID: 13APR19.D			Analyzed: 04/13/17 15:18			
Pentafluorobenzene (IS)	172898	6.58	161320	6.58	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66216	9.62	62788	9.62	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	264280	7.39	238971	7.39	111	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALB)			Lab File ID: 13APR20.D			Analyzed: 04/13/17 15:41			
Pentafluorobenzene (IS)	173766	6.58	161320	6.58	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67704	9.62	62788	9.62	108	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	264175	7.39	238971	7.39	111	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALC)			Lab File ID: 13APR21.D			Analyzed: 04/13/17 16:04			
Pentafluorobenzene (IS)	181000	6.58	161320	6.58	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71392	9.62	62788	9.62	114	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	269717	7.39	238971	7.39	113	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALD)			Lab File ID: 13APR28.D			Analyzed: 04/13/17 18:46			
Pentafluorobenzene (IS)	179688	6.58	161320	6.58	111	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALE)			Lab File ID: 13APR29.D			Analyzed: 04/13/17 19:09			
Pentafluorobenzene (IS)	154983	6.58	161320	6.58	96	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALF)			Lab File ID: 13APR30.D			Analyzed: 04/13/17 19:32			
Pentafluorobenzene (IS)	177296	6.58	161320	6.58	110	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALG)			Lab File ID: 13APR31.D			Analyzed: 04/13/17 19:55			
Pentafluorobenzene (IS)	181779	6.58	161320	6.58	113	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALH)			Lab File ID: 13APR32.D			Analyzed: 04/13/17 20:18			
Pentafluorobenzene (IS)	185048	6.58	161320	6.58	115	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CALI)			Lab File ID: 13APR33.D			Analyzed: 04/13/17 20:42			
Pentafluorobenzene (IS)	189454	6.58	161320	6.58	117	50 - 200	0.0000	+/-0.50	
Cal Standard (1706245-CAL7)			Lab File ID: 13APR40.D			Analyzed: 04/14/17 04:37			
Pentafluorobenzene (IS)	206122	6.58	161320	6.58	128	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74506	9.62	62788	9.62	119	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	312963	7.39	238971	7.39	131	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1706245	Instrument:	MS-V5
Matrix:	Water	Calibration:	1704006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1706245-CAL8)			Lab File ID: 13APR41.D			Analyzed: 04/14/17 05:00			
Pentafluorobenzene (IS)	194647	6.58	161320	6.58	121	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	75679	9.62	62788	9.62	121	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	303398	7.39	238971	7.39	127	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1708684
Matrix: Water

SDG: 1713059
Project: Alameda
Instrument: MS-V5
Calibration: 1704006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1708684-ICV1)			Lab File ID: 13APR12.D			Analyzed: 04/13/17 12:37			
Pentafluorobenzene (IS)	169993	6.58	161320	6.58	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63585	9.62	62788	9.62	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	253766	7.39	238971	7.39	106	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1708684-ICB1)			Lab File ID: 13APR14.D			Analyzed: 04/13/17 13:23			
Pentafluorobenzene (IS)	184752	6.58	169993	6.58	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68307	9.61	63585	9.62	107	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	263984	7.39	253766	7.39	104	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1708684-ICV2)			Lab File ID: 13APR42.D			Analyzed: 04/14/17 05:24			
Pentafluorobenzene (IS)	202520	6.58	161320	6.58	126	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	73276	9.62	62788	9.62	117	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	306112	7.38	238971	7.39	128	50 - 200	-0.0100	+/-0.50	
Initial Cal Blank (1708684-ICB2)			Lab File ID: 13APR43.D			Analyzed: 04/14/17 05:47			
Pentafluorobenzene (IS)	209177	6.58	202520	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	78768	9.62	73276	9.62	107	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	312441	7.39	306112	7.38	102	50 - 200	0.0100	+/-0.50	
Calibration Check (1708684-CCV1)			Lab File ID: 17MAY02.D			Analyzed: 05/17/17 06:55			
Pentafluorobenzene (IS)	166354	6.58	161320	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	60410	9.62	62788	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	258777	7.38	238971	7.39	108	50 - 200	-0.0100	+/-0.50	
Calibration Check (1708684-CCV2)			Lab File ID: 17MAY03.D			Analyzed: 05/17/17 07:18			
Pentafluorobenzene (IS)	179855	6.57	161320	6.58	111	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	65740	9.62	62788	9.62	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	253606	7.38	238971	7.39	106	50 - 200	-0.0100	+/-0.50	
Calibration Blank (1708684-CCB1)			Lab File ID: 17MAY05.D			Analyzed: 05/17/17 08:04			
Pentafluorobenzene (IS)	177237	6.58	179855	6.57	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72050	9.62	65740	9.62	110	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	263809	7.39	253606	7.38	104	50 - 200	0.0100	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708684
Instrument: MS-V5
Matrix: Water
Calibration: 1704006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B[E1839-BLK1)			Lab File ID: 17MAY06.D			Analyzed: 05/17/17 08:27			
Pentafluorobenzene (IS)	190338	6.58	179855	6.57	106	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72242	9.62	65740	9.62	110	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	285937	7.38	253606	7.38	113	50 - 200	0.0000	+/-0.50	
27MW09_170511 (1713059-04)			Lab File ID: 17MAY07.D			Analyzed: 05/17/17 08:50			
Pentafluorobenzene (IS)	182159	6.58	179855	6.57	101	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71005	9.62	65740	9.62	108	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274505	7.39	253606	7.38	108	50 - 200	0.0100	+/-0.50	
LCS (B[E1839-BS1)			Lab File ID: 17MAY08.D			Analyzed: 05/17/17 09:13			
Pentafluorobenzene (IS)	181565	6.58	179855	6.57	101	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	75344	9.62	65740	9.62	115	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	293445	7.39	253606	7.38	116	50 - 200	0.0100	+/-0.50	
Matrix Spike (B[E1839-MS1)			Lab File ID: 17MAY09.D			Analyzed: 05/17/17 09:37			
Pentafluorobenzene (IS)	184050	6.58	179855	6.57	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72483	9.62	65740	9.62	110	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	293830	7.38	253606	7.38	116	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[E1839-MSD1)			Lab File ID: 17MAY10.D			Analyzed: 05/17/17 10:00			
Pentafluorobenzene (IS)	173373	6.58	179855	6.57	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67652	9.61	65740	9.62	103	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285141	7.39	253606	7.38	112	50 - 200	0.0100	+/-0.50	
TB08_170511 (1713059-01)			Lab File ID: 17MAY13.D			Analyzed: 05/17/17 11:09			
Pentafluorobenzene (IS)	186529	6.58	179855	6.57	104	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	69701	9.62	65740	9.62	106	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	276727	7.39	253606	7.38	109	50 - 200	0.0100	+/-0.50	
EB19_170511 (1713059-02)			Lab File ID: 17MAY14.D			Analyzed: 05/17/17 11:32			
Pentafluorobenzene (IS)	178910	6.58	179855	6.57	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72328	9.61	65740	9.62	110	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	274611	7.38	253606	7.38	108	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708684
Instrument: MS-V5
Matrix: Water
Calibration: 1704006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EB20_170511 (1713059-03)			Lab File ID: 17MAY15.D			Analyzed: 05/17/17 11:55			
Pentafluorobenzene (IS)	188850	6.58	179855	6.57	105	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72314	9.62	65740	9.62	110	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	271748	7.39	253606	7.38	107	50 - 200	0.0100	+/-0.50	
27MW10_170511 (1713059-05)			Lab File ID: 17MAY16.D			Analyzed: 05/17/17 12:18			
Pentafluorobenzene (IS)	191496	6.58	179855	6.57	106	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	65046	9.62	65740	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282202	7.39	253606	7.38	111	50 - 200	0.0100	+/-0.50	
27MW12_170511 (1713059-08)			Lab File ID: 17MAY19.D			Analyzed: 05/17/17 13:28			
Pentafluorobenzene (IS)	173851	6.58	179855	6.57	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	65995	9.62	65740	9.62	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268815	7.38	253606	7.38	106	50 - 200	0.0000	+/-0.50	
27MW13_170511 (1713059-09)			Lab File ID: 17MAY20.D			Analyzed: 05/17/17 13:51			
Pentafluorobenzene (IS)	199577	6.58	179855	6.57	111	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	75547	9.62	65740	9.62	115	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	306917	7.39	253606	7.38	121	50 - 200	0.0100	+/-0.50	
27MW14_170511 (1713059-10)			Lab File ID: 17MAY21.D			Analyzed: 05/17/17 14:14			
Pentafluorobenzene (IS)	191820	6.58	179855	6.57	107	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	76045	9.62	65740	9.62	116	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	297575	7.38	253606	7.38	117	50 - 200	0.0000	+/-0.50	
27MW11_170511 (1713059-06)			Lab File ID: 17MAY29.D			Analyzed: 05/17/17 17:19			
Pentafluorobenzene (IS)	178342	6.57	179855	6.57	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68543	9.62	65740	9.62	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	266236	7.38	253606	7.38	105	50 - 200	0.0000	+/-0.50	
DUP10_170511 (1713059-07)			Lab File ID: 17MAY30.D			Analyzed: 05/17/17 17:42			
Pentafluorobenzene (IS)	177702	6.58	179855	6.57	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	69719	9.61	65740	9.62	106	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	273809	7.38	253606	7.38	108	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1708684	Instrument:	MS-V5
Matrix:	Water	Calibration:	1704006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1708684-CCV4)			Lab File ID: 17MAY33.D			Analyzed: 05/17/17 18:51			
Pentafluorobenzene (IS)	178320	6.58	161320	6.58	111	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74697	9.61	62788	9.62	119	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	289102	7.39	238971	7.39	121	50 - 200	0.0000	+/-0.50	
Calibration Check (1708684-CCV5)			Lab File ID: 17MAY34.D			Analyzed: 05/17/17 19:14			
Pentafluorobenzene (IS)	186577	6.58	161320	6.58	116	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	76135	9.62	62788	9.62	121	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	290748	7.38	238971	7.39	122	50 - 200	-0.0100	+/-0.50	
Calibration Blank (1708684-CCB2)			Lab File ID: 17MAY36.D			Analyzed: 05/17/17 20:01			
Pentafluorobenzene (IS)	196914	6.58	186577	6.58	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	79679	9.62	76135	9.62	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	296942	7.39	290748	7.38	102	50 - 200	0.0100	+/-0.50	

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INITIAL CALIBRATION STANDARDS

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1706245
Calibration: 1704006

SDG: 1713059
Project: Alameda
Instrument: MS-V5

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7C28030	8260 V5 BFB 25NG	1706245-TUN1	13APR02.D	04/13/17 07:33
7D14008	8260 V5 1706245 IC1	1706245-CAL1	13APR04.D	04/13/17 08:21
7D14009	8260 V5 1706245 IC2	1706245-CAL2	13APR05.D	04/13/17 08:44
7D14010	8260 V5 1706245 IC3	1706245-CAL3	13APR06.D	04/13/17 09:33
7D14011	8260 V5 1706245 IC4	1706245-CAL4	13APR07.D	04/13/17 09:56
7D14012	8260 V5 1706245 IC5	1706245-CAL5	13APR08.D	04/13/17 10:20
7D14013	8260 V5 1706245 IC6	1706245-CAL6	13APR09.D	04/13/17 10:43
7D14017	8260 V5 1706245 XIC3	1706245-CAL9	13APR18.D	04/13/17 14:55
7D14018	8260 V5 1706245 XIC4	1706245-CALA	13APR19.D	04/13/17 15:18
7D14019	8260 V5 1706245 XIC5	1706245-CALB	13APR20.D	04/13/17 15:41
7D14020	8260 V5 1706245 XIC6	1706245-CALC	13APR21.D	04/13/17 16:04
7C28031	8260 V5 BFB 50NG	1706245-TUN2	13APR27.D	04/13/17 18:23
7D14022	8260 V5 1706245 TPPH IC1	1706245-CALD	13APR28.D	04/13/17 18:46
7D14023	8260 V5 1706245 TPPH IC2	1706245-CALE	13APR29.D	04/13/17 19:09
7D14024	8260 V5 1706245 TPPH IC3	1706245-CALF	13APR30.D	04/13/17 19:32
7D14025	8260 V5 1706245 TPPH IC4	1706245-CALG	13APR31.D	04/13/17 19:55
7D14026	8260 V5 1706245 TPPH IC5	1706245-CALH	13APR32.D	04/13/17 20:18
7D14027	8260 V5 1706245 TPPH IC6	1706245-CALI	13APR33.D	04/13/17 20:42
7D14015	8260 V5 1706245 XIC1	1706245-CAL7	13APR40.D	04/14/17 04:37
7D14016	8260 V5 1706245 XIC2	1706245-CAL8	13APR41.D	04/14/17 05:00

AMEC Environmental & Infrastructure-
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Project: Alameda
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Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene	0.5	1.824109	1	2.108312	10	1.968175	25	1.864339	50	1.762338	100	1.798827
Bromobenzene	0.5	0.9880176	1	1.100256	10	0.9993986	25	1.019443	50	0.9412694	100	0.9714919
Bromochloromethane	0.5	9.847991E-02	1	0.1621686	10	0.1628634	25	0.1625242	50	0.1615179	100	0.1805939
Bromodichloromethane	0.5	0.2553924	1	0.285033	10	0.3260469	25	0.3271995	50	0.2911607	100	0.3018341
Bromoform	0.5	0.2644958	1	0.2180614	10	0.281119	25	0.3014652	50	0.3092442	100	~~0.3536574~~
Bromomethane	0.5	0.3233481	1	0.3900894	10	0.3700927	25	0.3696925	50	0.3581259	100	0.3854011
n-Butylbenzene	0.5	3.149429	1	3.94533	10	3.630765	25	3.336459	50	2.890973	100	2.821556
sec-Butylbenzene	0.5	5.10454	1	5.865803	10	5.432092	25	4.939638	50	4.283086	100	4.110388
tert-Butylbenzene	0.5	4.676573	1	4.120333	10	4.272321	25	3.99096	50	3.577285	100	3.473726
Carbon tetrachloride	0.5	0.4402429	1	0.5086823	10	0.5398305	25	0.5323233	50	0.5120494	100	0.5431523
Chlorobenzene	0.5	2.513854	1	3.199158	10	2.773558	25	2.682774	50	2.480929	100	2.618243
Chloroethane	0.5	0.3811092	1	0.3853074	10	0.3818794	25	0.3836028	50	0.3635358	100	0.4031128
Chloroform	0.5	0.7958458	1	0.9453361	10	0.7938688	25	0.7683164	50	0.7372287	100	0.7635361
Chloromethane	0.5	0.6351439	1	0.7293703	10	0.6453262	25	0.6131416	50	0.5841641	100	0.603689
2-Chlorotoluene	0.5	4.211335	1	4.009427	10	3.645336	25	3.396706	50	3.083599	100	3.074191
4-Chlorotoluene	0.5	3.033364	1	3.582275	10	3.15831	25	2.966739	50	2.685249	100	2.704055
Dibromochloromethane	0.5	0.1403537	1	0.1450275	10	0.1678678	25	0.182238	50	0.1678613	100	0.179009
1,2-Dibromo-3-chloropropane	0.5		1	1.777763E-02	10	6.789126E-02	25	7.227496E-02	50	6.921938E-02	100	8.291638E-02
1,2-Dibromoethane	0.5	0.1401134	1	0.1208155	10	0.1363847	25	0.1421277	50	0.1301762	100	0.1429797
Dibromomethane	0.5	7.722657E-02	1	8.623259E-02	10	9.672717E-02	25	9.537726E-02	50	9.124907E-02	100	9.720364E-02
1,2-Dichlorobenzene	0.5	1.711212	1	1.660822	10	1.500653	25	1.43651	50	1.288025	100	1.341409
1,3-Dichlorobenzene	0.5	1.978651	1	1.948363	10	1.798594	25	1.706313	50	1.478557	100	1.510619
1,4-Dichlorobenzene	0.5	1.600379	1	2.013113	10	1.773094	25	1.681258	50	1.50764	100	1.543134
Dichlorodifluoromethane	0.5	0.3313546	1	0.4483696	10	0.5237229	25	0.4869626	50	0.4495625	100	0.4617122
1,1-Dichloroethane	0.5	0.9252079	1	1.150542	10	1.048602	25	1.023511	50	0.9387801	100	0.9871137

AMEC Environmental & Infrastructure-
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Reported: 6/13/2017 3:45:18PM
Project: Alameda
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Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane	0.5	0.3851125	1	0.4497445	10	0.4355824	25	0.4309447	50	0.402282	100	0.4244683
1,1-Dichloroethene	0.5	0.7717119	1	0.8826923	10	0.8185339	25	0.7809397	50	0.706868	100	0.7213312
cis-1,2-Dichloroethene	0.5	0.4686088	1	0.5872262	10	0.501358	25	0.4948227	50	0.4686072	100	0.4946436
trans-1,2-Dichloroethene	0.5	0.4195404	1	0.5096984	10	0.5050552	25	0.4662782	50	0.4532448	100	0.4845725
Total 1,2-Dichloroethene	1	0.4440746	2	0.5484623	20	0.5032066	50	0.4805505	100	0.460926	200	0.489608
1,2-Dichloropropane	0.5	0.2806273	1	0.37837	10	0.3451424	25	0.3386352	50	0.3074662	100	0.3154559
1,3-Dichloropropane	0.5	0.2102902	1	0.2745397	10	0.2513093	25	0.2479598	50	0.2275561	100	0.2363424
2,2-Dichloropropane	0.5	0.7422022	1	0.7577632	10	0.7746098	25	0.7272923	50	0.6583573	100	0.6746795
1,1-Dichloropropene	0.5	0.5857324	1	0.6660689	10	0.6751504	25	0.6479395	50	0.5863033	100	0.594124
cis-1,3-Dichloropropene	0.5	0.4139312	1	0.3899657	10	0.4062645	25	0.3993288	50	0.3613677	100	0.3721439
trans-1,3-Dichloropropene	0.5	0.235525	1	0.2919741	10	0.2874957	25	0.2861703	50	0.2640541	100	0.2748034
Total 1,3-Dichloropropene	1	0.3247281	2	0.3409699	20	0.3468801	50	0.3427495	100	0.3127109	200	0.3234736
Ethylbenzene	0.5	1.669691	1	1.947385	10	1.728761	25	1.717016	50	1.555797	100	1.578874
Hexachlorobutadiene	0.5	0.8598565	1	0.7659061	10	0.7392089	25	0.6451933	50	0.5923267	100	0.7176953
Isopropylbenzene	0.5	5.432462	1	5.725539	10	5.138016	25	4.88924	50	4.177367	100	4.175415
p-Isopropyltoluene	0.5	4.496101	1	4.437232	10	4.390336	25	3.96793	50	3.280352	100	3.226208
Methylene chloride	0.5	0.3448513	1	0.384889	10	0.3975387	25	0.3773642	50	0.3683032	100	0.4097027
Methyl t-butyl ether	0.5	0.5975134	1	0.5449057	10	0.6778274	25	0.6322787	50	0.6319823	100	0.6843262
Naphthalene	0.5	1.312344	1	1.233344	10	1.158275	25	1.292266	50	1.298903	100	1.673332
n-Propylbenzene	0.5	5.884622	1	5.975405	10	5.427143	25	5.125635	50	4.484687	100	4.29003
Styrene	0.5	2.927435	1	3.192308	10	2.919754	25	2.869306	50	2.576675	100	2.577398
1,1,1,2-Tetrachloroethane	0.5	0.7078286	1	0.9523266	10	0.9109217	25	0.8612283	50	0.8016706	100	0.8578495
1,1,2,2-Tetrachloroethane	0.5	0.3324996	1	0.506581	10	0.5068905	25	0.4720201	50	0.4777445	100	0.4983224
Tetrachloroethene	0.5	0.3267709	1	0.3912722	10	0.3275091	25	0.3234853	50	0.2905572	100	0.2960341
Toluene	0.5	0.7279646	1	0.7745826	10	0.760831	25	0.7785564	50	0.6992079	100	0.6996942
1,2,3-Trichlorobenzene	0.5	0.9281873	1	0.9506956	10	0.9569214	25	0.9291202	50	0.8905383	100	1.075212

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,4-Trichlorobenzene	0.5	1.23682	1	1.214261	10	1.111898	25	1.0614	50	1.003356	100	1.187665
1,1,1-Trichloroethane	0.5	0.6026604	1	0.7599749	10	0.770081	25	0.7336672	50	0.6866013	100	0.7191098
1,1,2-Trichloroethane	0.5	0.1230498	1	0.1498455	10	0.1480607	25	0.1536337	50	0.139326	100	0.1474335
Trichloroethene	0.5	0.3319781	1	0.364692	10	0.3577512	25	0.3299329	50	0.2953599	100	0.3115002
Trichlorofluoromethane	0.5	0.5999154	1	0.642697	10	0.6966771	25	0.6740838	50	0.6162975	100	0.6449358
1,2,3-Trichloropropane	0.5	0.1226031	1	0.1208553	10	0.1226201	25	0.111206	50	0.1107667	100	0.1130618
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.3058482	1	0.4410771	10	0.435342	25	0.4085619	50	0.3887566	100	0.4158662
1,2,4-Trimethylbenzene	0.5	3.704902	1	4.283757	10	3.731287	25	3.514035	50	3.056036	100	3.019413
1,3,5-Trimethylbenzene	0.5	3.735962	1	4.552705	10	3.893274	25	3.60948	50	3.19604	100	3.129019
Vinyl chloride	0.5	0.6048336	1	0.7067157	10	0.6738509	25	0.6597992	50	0.617172	100	0.6419795
Total Xylenes	1.5	2.207728	3	2.269122	30	2.024263	75	1.998962	150	1.858169	300	1.902863
Total Trihalomethanes	2	6353.5	4	6921.25	40	6309.3	100	6615.35	200	6622.06	400	6129.902
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether	2	6.611123E-02	4	5.766192E-02	40	6.436003E-02	100	6.537613E-02	200	6.257605E-02	400	6.602541E-02
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane	0.5	0.4894316	1	0.5075596	10	0.6397347	25	0.6701408	50	0.6331551	100	0.6746932
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												

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INITIAL CALIBRATION DATA
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Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes	1	2.228271	2	2.278636	20	2.030698	50	2.000369	100	1.850725	200	1.882267
o-Xylene	0.5	2.166642	1	2.250094	10	2.011393	25	1.996146	50	1.873056	100	1.944055
Total Purgeable Petroleum Hydroc												
1,2-Dichloroethane-d4 (Surrogate)	10	0.3326413	10	0.3407514	10	0.3468766	10	0.3265807	10	0.3225599	10	0.3042187
Toluene-d8 (Surrogate)	10	1.105554	10	1.125348	10	1.095699	10	1.137837	10	1.116003	10	1.105751
4-Bromofluorobenzene (Surrogate)	10	1.3606	10	1.317747	10	1.302272	10	1.27604	10	1.330569	10	1.336856

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9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Calibration: 1704006
Matrix: Water

SDG: 1713059
Project: Alameda
Instrument: MS-V5
Calibration Date: 04/13/17 10:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone	16	3.706543E-02	64	4.372017E-02	160	3.437991E-02	320	3.382901E-02	480	3.413295E-02	800	3.128246E-02
Acetonitrile	8	1.991539E-02	32	1.736316E-02	80	1.722109E-02	160	1.651516E-02	240	1.652606E-02	400	1.474862E-02
Acrolein	10	2.056549E-02	40	1.986802E-02	100	0.0199893	200	1.862948E-02	320	0.0189461	500	1.719238E-02
Acrylonitrile	4	7.003134E-02	16	0.0646844	40	6.435866E-02	80	6.146977E-02	128	6.109959E-02	200	5.825055E-02
Allyl chloride	1.6	~~1.050925~~	6.4	1.044423	16	0.9245456	32	0.8281762	48	0.7953165	80	0.7116195
t-Amyl Alcohol	50	8.862712E-03	800	8.973488E-03	1250	8.973085E-03	2500	9.289153E-03	5000	8.102943E-03	10000	6.755166E-03
t-Amyl Methyl ether	0.8	0.6710831	3.2	0.8212944	8	0.6743342	16	0.6655875	24	0.6821482	40	0.6596989
Benzyl chloride	1.6	0.6787205	6.4	0.8469779	16	0.8100601	32	0.8136959	48	0.8183262	80	0.7267901
t-Butyl alcohol	40	1.069148E-02	160	0.0127256	400	1.114173E-02	800	1.169649E-02	1200	1.112473E-02	2000	1.008077E-02
Carbon disulfide	1.6	1.736805	6.4	1.804998	16	1.42663	32	1.335863	48	1.265864	80	1.18168
2-Chloroethyl vinyl ether												
Chloroprene	1.6	0.9680553	6.4	0.9916429	16	0.9196001	32	0.8559798	48	0.8395138	80	0.7787445

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chlorotrifluoroethene	0.5		8		12.5		25		50		100	
Cyclohexane	0.5	1.215397	8	1.013142	12.5	1.105975	25	1.053467	50	1.000777	100	0.8891072
Cyclohexanone	20	0.025253	80	2.688328E-02	200	2.707832E-02	400	2.686171E-02	640	2.400107E-02	1000	2.142355E-02
trans-1,4-Dichloro-2-butene	4	0.1533098	16	0.1564007	40	0.1344397	80	0.1366173	120	0.140036	200	0.1224542
1,2-Dichlorotrifluoroethane	0.5	0.6700886	8	0.6489504	12.5	0.5903999	25	0.5542204	50	0.5273183	100	0.4880696
2,2-Dichloro-1,1,1-trifluoroethane	0.5	~~1.13981~~	8	0.9594677	12.5	0.9434739	25	0.8291501	50	0.7963146	100	0.7257149
Diethyl ether	0.5	0.2604283	8	0.2709585	12.5	0.2442026	25	0.2474754	50	0.2455912	100	0.2296077
Diisopropyl ether	0.8	0.3837533	3.2	0.3998585	8	0.3563906	16	0.3251194	24	0.3381823	40	0.319739
1,4-Dioxane	100	~~1.119941E-03~~	400	8.415514E-04	1000	7.293987E-04	2000	6.999016E-04	3200	6.119168E-04	5000	6.151485E-04
Ethanol	200	1.457874E-03	800	1.347439E-03	2000	1.533923E-03	4000	1.416861E-03	6400	1.300294E-03	10000	1.216785E-03
Ethyl Amyl Ketone	0.5	0.3728559	8	0.3246112	12.5	0.3147604	25	0.3389755	50	0.3277089	100	0.2846411
Ethyl methacrylate	4	0.1517512	16	0.1857317	40	0.1500732	80	0.1437855	120	0.1478575	200	0.1386188
Ethyl t-butyl ether	0.8	1.055807	3.2	1.29059	8	1.092597	16	1.062632	24	1.076373	40	1.049667
Hexachloroethane												
Hexane	0.5	0.5459873	8	0.5705264	12.5	0.6273249	25	0.591683	50	0.5652659	100	0.5121133
2-Hexanone	16	5.586323E-02	64	0.0653154	160	5.829096E-02	320	5.430805E-02	480	5.264952E-02	800	4.590307E-02
Isobutanol	20	5.598626E-03	80	4.934574E-03	200	5.60388E-03	400	5.228516E-03	640	5.093146E-03	1000	4.464972E-03
Isopropyl alcohol	40	7.673853E-03	160	6.202574E-03	400	7.440341E-03	800	7.079608E-03	1280	6.21485E-03	2000	5.791685E-03
Methacrylonitrile	8	6.550732E-02	32	7.735317E-02	80	5.831588E-02	160	6.181209E-02	240	6.175355E-02	400	0.0601279
Methyl acetate	5	~~0.1544134~~	80	0.1212593	125	0.1199613	250	0.118787	500	0.1091936	1000	9.681459E-02
Methylcyclohexane	0.5	0.5180165	8	0.5076006	12.5	0.5925055	25	0.5110671	50	0.4846749	100	0.4148711
Methyl ethyl ketone	8	6.460979E-02	32	8.072305E-02	80	6.370898E-02	160	6.530295E-02	240	6.849681E-02	400	6.528854E-02
5-Methyl-3-heptanone	1	0.2664215	16	0.3265189	25	0.3459668	50	0.3340552	100	0.3003855	200	0.2499909
Methyl iodide	1.6	0.5495532	6.4	0.533851	16	0.5305014	32	0.4919374	48	0.5094111	80	0.491607
Methyl isobutyl ketone	8	8.373993E-02	32	0.1016075	80	8.779417E-02	160	0.0834839	240	8.281174E-02	400	7.627217E-02

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl methacrylate	4	7.130236E-02	16	8.934222E-02	40	7.041872E-02	80	6.603224E-02	120	7.038043E-02	200	6.694387E-02
Pentachloroethane	0.8	0.551969	3.2	0.5036899	8	0.5104179	16	0.4771883	24	0.4360156	40	0.4220256
Propionitrile	20	2.285782E-02	80	2.271998E-02	200	2.267824E-02	400	2.184858E-02	640	2.025245E-02	1000	1.865055E-02
Tetrahydrofuran	16	3.769612E-02	64	4.394895E-02	160	3.585111E-02	320	3.753423E-02	480	3.776343E-02	800	3.608805E-02
Vinyl acetate	8	0.4306248	32	0.4735223	80	0.416948	160	0.3953751	240	0.3859601	400	0.3567805
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroca												
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Calibration: 1704006
Matrix: Water

SDG: 1713059
Project: Alameda
Instrument: MS-V5
Calibration Date: 04/13/17 10:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethar												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether												

AMEC Environmental & Infrastructure-
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Project Number: 5023146096
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane												
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroc	50	2.819939	500	3.283501	1000	2.781557	1500	2.725299	2000	2.63872	2500	2.490456
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	1.887683	6.839717	6.941667	5.921495E-02			15	
Bromobenzene	1.003313	5.417002	10.44	2.779896E-03			15	
Bromochloromethane	0.1546913	18.42393	6.185	8.905214E-02	0.99857		0.99	
Bromodichloromethane	0.2977778	9.115514	8.06	1.375235E-02			15	
Bromoform	0.2748771	13.1959	10.152	4.221472E-02			SPCC (0.10)	
Bromomethane	0.3661249	6.541676	2.44	0.3667307			15	
n-Butylbenzene	3.295752	13.19765	11.20167	3.538415E-02			15	
sec-Butylbenzene	4.955924	13.51951	10.89	1.492901E-02			15	
tert-Butylbenzene	4.018533	11.12913	10.76167	3.643903E-02			15	
Carbon tetrachloride	0.5127134	7.460189	6.718333	6.192675E-02			15	
Chlorobenzene	2.711419	9.665524	9.64	1.982149E-02			SPCC (0.30)	
Chloroethane	0.3830912	3.289129	2.568333	0.1601511			15	
Chloroform	0.8006886	9.253563	6.331667	6.112167E-02			CCC (20)	
Chloromethane	0.6351392	8.045096	1.95	1.398662E-02			SPCC (0.10)	
2-Chlorotoluene	3.570099	13.27189	10.54333	4.901588E-02			15	
4-Chlorotoluene	3.021665	10.97775	10.61	1.653803E-02			15	
Dibromochloromethane	0.1637262	10.60156	9.238333	4.244758E-02			15	
1,2-Dibromo-3-chloropropane	6.201592E-02	40.99587	11.69	2.570347E-02	0.99663		0.99	
1,2-Dibromoethane	0.1354329	6.316327	9.321666	4.581465E-02			15	
Dibromomethane	9.066938E-02	8.575601	7.908333	4.882433E-02			15	
1,2-Dichlorobenzene	1.489772	11.38991	11.24167	3.432698E-02			15	
1,3-Dichlorobenzene	1.73685	12.23654	10.98	1.809559E-02			15	
1,4-Dichlorobenzene	1.686436	11.06686	11.035	5.084273E-02			15	
Dichlorodifluoromethane	0.4502807	14.3987	1.758333	0.2322958			15	
1,1-Dichloroethane	1.012293	8.167473	5.056667	0.1027076			SPCC (0.10)	
1,2-Dichloroethane	0.4213557	5.603535	7.011667	5.662091E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethene	0.7803462	8.283125	3.518333	0.1161968			CCC (20)	
cis-1,2-Dichloroethene	0.5025444	8.718203	5.831667	7.046123E-02			15	
trans-1,2-Dichloroethene	0.4730649	7.200571	4.505	0.1205797			15	
Total 1,2-Dichloroethene	0.4878047	7.452094	5.831667	7.046123E-02			15	
1,2-Dichloropropane	0.3276162	10.36577	7.835	7.032883E-02			CCC (20)	
1,3-Dichloropropane	0.2413329	9.124494	9.081667	4.179159E-02			15	
2,2-Dichloropropane	0.7224841	6.424193	5.836667	8.919377E-02			15	
1,1-Dichloropropene	0.6258864	6.670784	6.72	1.146183E-02			15	
cis-1,3-Dichloropropene	0.3905003	5.199678	8.408333	4.530242E-02			15	
trans-1,3-Dichloropropene	0.2733371	7.727237	8.828333	4.140079E-02			15	
Total 1,3-Dichloropropene	0.3319187	4.075713	8.828333	4.140079E-02			15	
Ethylbenzene	1.699587	8.266665	9.691666	4.623992E-02			CCC (20)	
Hexachlorobutadiene	0.7200311	13.01919	12.22167	2.623756E-02			15	
Isopropylbenzene	4.923007	13.0567	10.23	0.0167001			15	
p-Isopropyltoluene	3.96636	14.70333	10.97	1.272075E-02			15	
Methylene chloride	0.3804415	5.984486	4.151667	9.579772E-02			15	
Methyl t-butyl ether	0.6281389	8.279509	4.486667	0.1137231			15	
Naphthalene	1.328077	13.44378	12.32167	3.537748E-02			15	
n-Propylbenzene	5.19792	13.51295	10.47667	4.871901E-02			15	
Styrene	2.843813	8.279587	10.02667	4.733194E-02			15	
1,1,1,2-Tetrachloroethane	0.8486375	10.1239	9.691666	7.932944E-02			15	
1,1,2,2-Tetrachloroethane	0.4656763	14.36024	10.41	1.256242E-02			SPCC (0.30)	
Tetrachloroethene	0.3259381	10.99702	9.03	1.545367E-02			15	
Toluene	0.7401395	4.890076	8.66	8.783676E-03			CCC (20)	
1,2,3-Trichlorobenzene	0.9551125	6.624613	12.445	4.550388E-02			15	
1,2,4-Trichlorobenzene	1.1359	8.135504	12.16	1.867383E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	0.7120158	8.610928	6.531667	6.360873E-02			15	
1,1,2-Trichloroethane	0.1435582	7.724474	8.971667	4.754899E-02			15	
Trichloroethene	0.3318691	7.970896	7.601667	5.324327E-02			15	
Trichlorofluoromethane	0.6457678	5.529239	2.871667	0.1419284			15	
1,2,3-Trichloropropane	0.1168522	4.925719	10.44833	4.286386E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.399242	12.39733	3.533333	0.1454674			15	
1,2,4-Trimethylbenzene	3.551572	13.33837	10.795	5.393957E-02			15	
1,3,5-Trimethylbenzene	3.68608	14.1112	10.575	5.235964E-02			15	
Vinyl chloride	0.6507252	5.774736	2.075	0.2642487			CCC (20)	
Total Xylenes	2.043518	8.021697	10.01333	4.962691E-02			15	
Total Trihalomethanes	6491.894	4.3572	10.15167	3.840449E-02			15	
Acetone	3.573499E-02	12.09428	3.558333	0.1137298			15	
Acetonitrile	1.704825E-02	9.883209	3.913333	0.1312274			15	
Acrolein	1.919846E-02	6.317116	3.39	2.140274E-03			15	
Acrylonitrile	6.331572E-02	6.397423	4.438333	9.125546E-02			15	
Allyl chloride	0.8608162	14.85283	3.986	0.1371757			15	
t-Amyl Alcohol	8.492758E-03	11.05084	6.961667	5.953219E-02			15	
t-Amyl Methyl ether	0.6956911	8.912684	7.085	7.703733E-02			15	
Benzyl chloride	0.7824284	8.292196	11.09	1.526915E-02			15	
t-Butyl alcohol	1.124347E-02	8.037154	4.27	0.1491497			15	
Carbon disulfide	1.45864	17.54063	3.798333	0.1071615	0.99850		0.99	
2-Chloroethyl vinyl ether	6.368513E-02	5.0729	8.28	5.801038E-03			15	
Chloroprene	0.8922561	9.153703	5.148333	7.975125E-02			15	
Chlorotrifluoroethene							15	
Cyclohexane	1.046311	10.47724	6.618333	6.038864E-02			15	
Cyclohexanone	2.525015E-02	8.821866	10.29667	5.116925E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
trans-1,4-Dichloro-2-butene	0.140543	8.969653	10.42833	3.665911E-02			15	
1,2-Dichlorotrifluoroethane	0.5798412	12.16291	3.3	0.1909321			15	
2,2-Dichloro-1,1,1-trifluoroethane	0.8508242	11.67679	3.39	2.184408E-03			15	
Diethyl ether	0.2497106	5.727529	3.223333	0.2538724			15	
Diisopropyl ether	0.3538405	9.159393	5.103333	9.952656E-02			15	
1,4-Dioxane	6.995834E-04	13.53404	7.89	6.182417E-03			15	
Ethanol	1.378863E-03	8.279123	3.07	0.2070938			15	
Ethyl Amyl Ketone	0.3272588	8.85208	10.75167	3.756474E-02			15	
Ethyl methacrylate	0.1529697	10.93754	8.85	2.148775E-02			15	
Ethyl t-butyl ether	1.104611	8.365344	5.588333	7.374366E-02			15	
Hexachloroethane	0.6024525	13.6699	11.41	1.146142E-02			15	
Hexane	0.5688168	6.898165	4.86	2.144987E-02			15	
2-Hexanone	5.538837E-02	11.58395	9.1	1.594624E-02			15	
Isobutanol	5.153952E-03	8.37799	6.841667	5.985282E-02			15	
Isopropyl alcohol	6.733819E-03	11.39052	3.74	0.2392016			15	
Methacrylonitrile	6.414499E-02	10.74646	6.12	1.277828E-02			15	
Methyl acetate	0.1132032	9.12069	3.962	0.1138202			15	
Methylcyclohexane	0.5047893	11.34775	7.81	1.741462E-02			15	
Methyl ethyl ketone	6.802169E-02	9.45122	5.8	1.880959E-02			15	
5-Methyl-3-heptanone	0.3038898	12.75637	10.43667	4.882346E-02			15	
Methyl iodide	0.5178102	4.612771	3.701667	0.1107483			15	
Methyl isobutyl ketone	8.595157E-02	9.913667	8.5	0			15	
Methyl methacrylate	7.240331E-02	11.82584	7.876667	6.561032E-02			15	
Pentachloroethane	0.483551	10.08637	10.79667	5.109279E-02			15	
Propionitrile	2.150127E-02	7.924956	5.89	2.437024E-02			15	
Tetrahydrofuran	3.814698E-02	7.767508	6.191667	0.1222782			15	

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Project Number: 5023146096
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1704006
Instrument: MS-V5
Matrix: Water
Calibration Date: 04/13/17 10:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Vinyl acetate	0.4098685	9.839862	5.06	7.727578E-03			15	
p- & m-Xylenes	2.045161	8.597761	9.77	1.748639E-02			15	
o-Xylene	2.040231	6.931452	10.01333	4.962691E-02			15	
Total Purgeable Petroleum Hydrocarbons	2.789912	9.635266	9.391667	6.243056			15	
1,2-Dichloroethane-d4 (Surrogate)	0.3289381	4.57499	6.92	1.640706E-02			15	
Toluene-d8 (Surrogate)	1.114365	1.375372	8.61	0.0142186			15	
4-Bromofluorobenzene (Surrogate)	1.320681	2.218759	10.35	1.741845E-02			15	

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Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
TB08_170511	05/11/17 10:00	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 11:09	6.00	14.00	
EB19_170511	05/11/17 11:00	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 11:32	6.00	14.00	
EB20_170511	05/11/17 11:10	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 11:55	6.00	14.00	
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 08:50	6.00	14.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 12:18	6.00	14.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 17:19	6.00	14.00	
DUP10_170511	05/11/17 08:28	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 17:42	6.00	14.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 13:28	6.00	14.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 13:51	6.00	14.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/17/17 07:00	6.00	14.00	05/17/17 14:14	6.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MS-V5

Raw Data - Samples

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY13.D Vial: 13
Acq On : 17 May 2017 11:09 am Operator: MGC
Sample : 1713059-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:45 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	186529	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	276727	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	69701	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	56253	9.17	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 91.70%						
31) Toluene d8 SMC#2	8.61	98	309578	10.04	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.40%						
49) Bromofluorobenzene SMC#3	10.34	95	86034	9.35	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 93.50%						

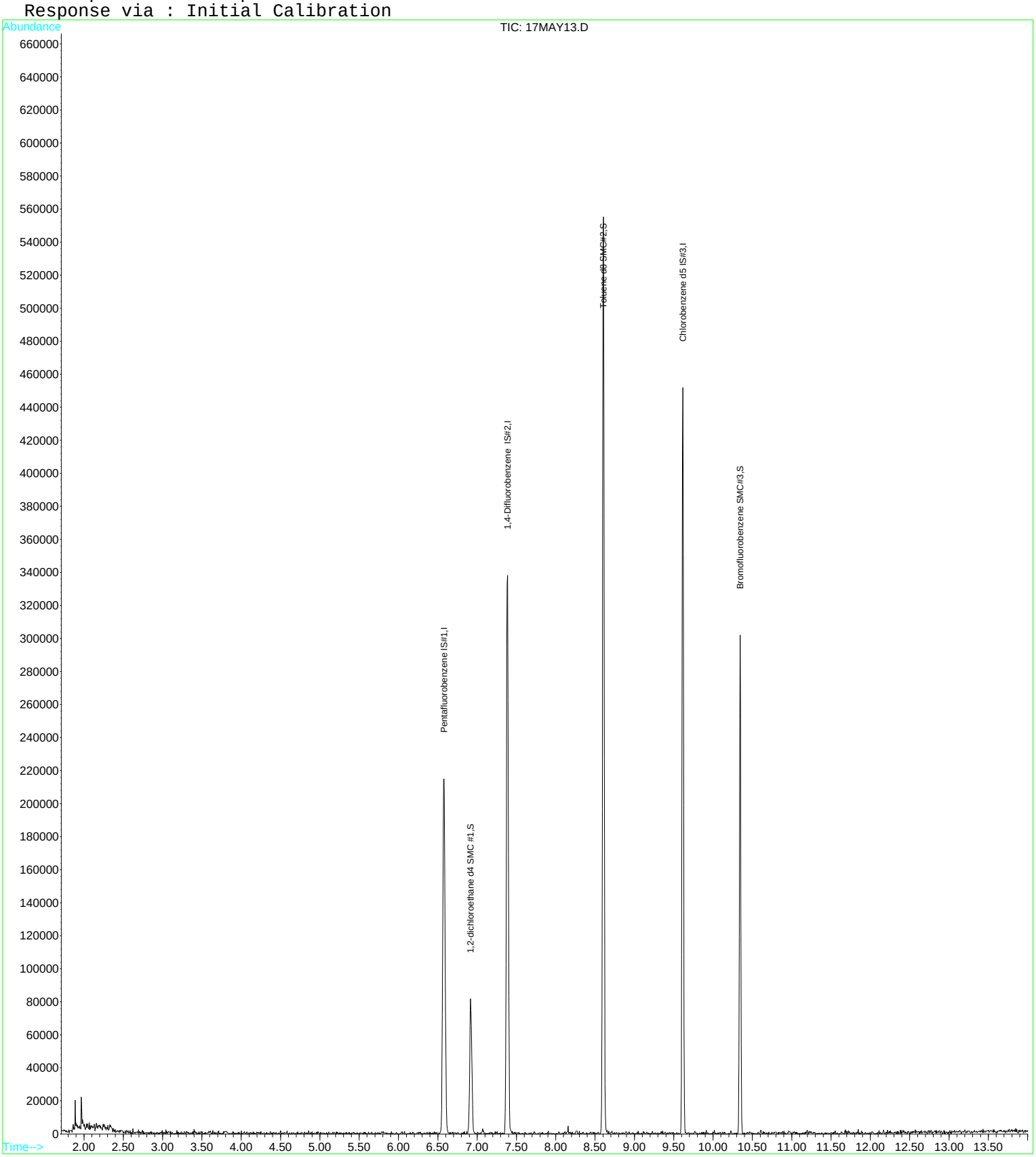
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY13.D Vial: 13
Acq On : 17 May 2017 11:09 am Operator: MGC
Sample : 1713059-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:45 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY13.D Vial: 13
Acq On : 17 May 2017 11:09 am Operator: MGC
Sample : 1713059-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:45 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	186529	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	276727	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69701	10.00	ug/L	0.00

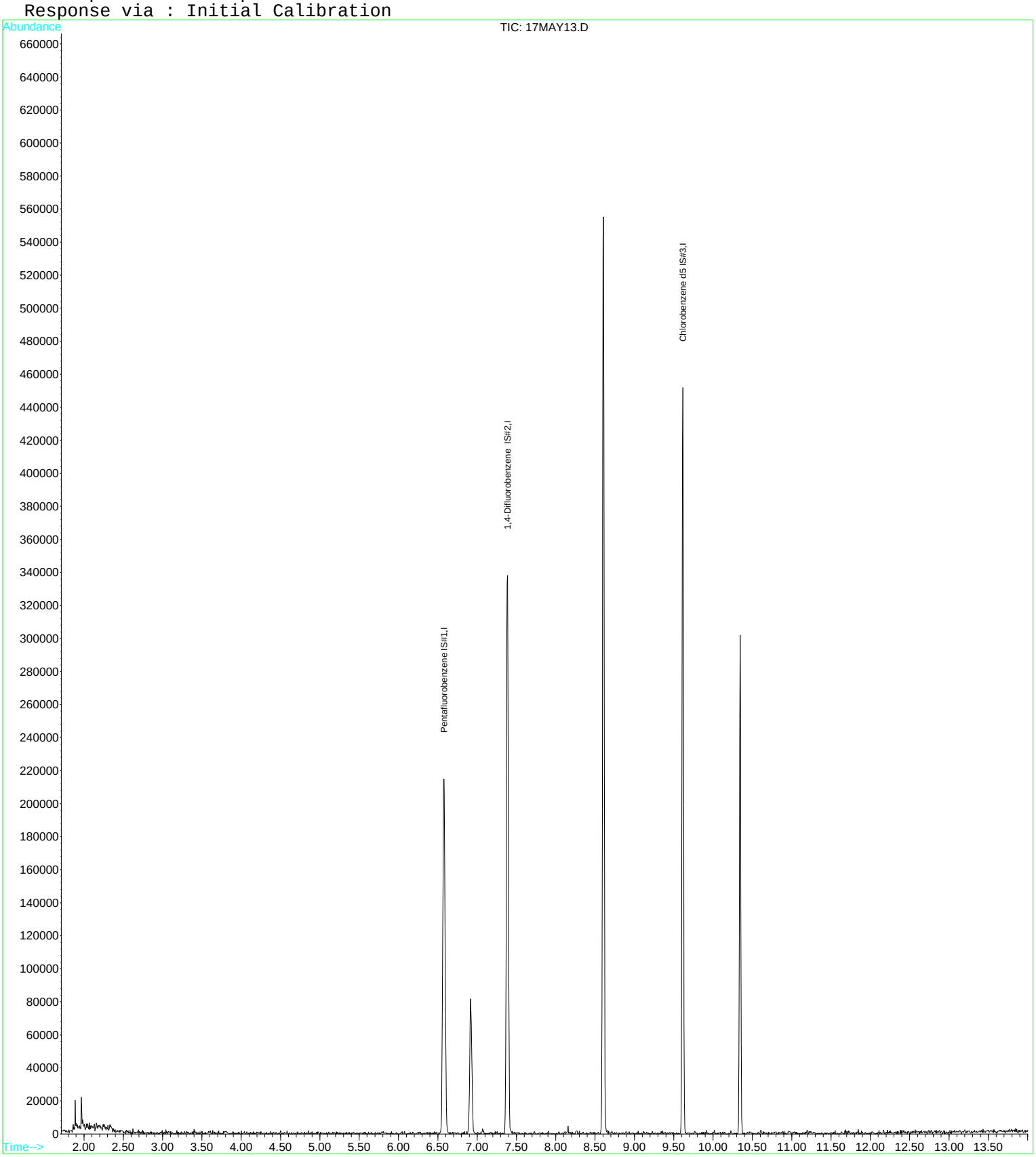
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY13.D Vial: 13
Acq On : 17 May 2017 11:09 am Operator: MGC
Sample : 1713059-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:45 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY14.D Vial: 14
Acq On : 17 May 2017 11:32 am Operator: MGC
Sample : 1713059-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178910	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	274611	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	72328	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52546	8.93	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 89.30%			
31) Toluene d8 SMC#2	8.60	98	300578	9.82	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%			
49) Bromofluorobenzene SMC#3	10.34	95	94418	9.88	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.80%			

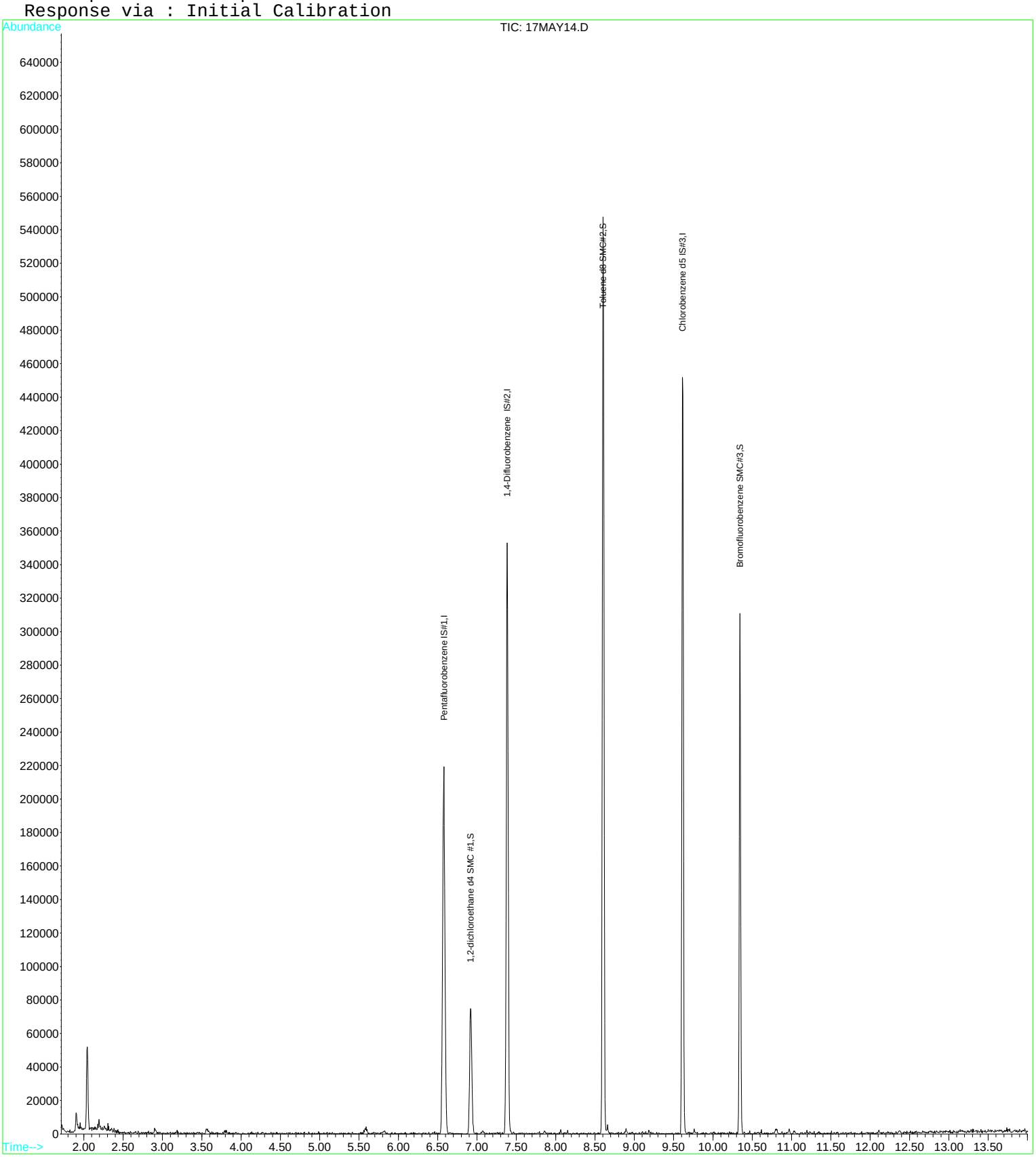
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY14.D Vial: 14
Acq On : 17 May 2017 11:32 am Operator: MGC
Sample : 1713059-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:49 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY14.D Vial: 14
Acq On : 17 May 2017 11:32 am Operator: MGC
Sample : 1713059-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:49 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178910	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	274611	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	72328	10.00	ug/L	0.00

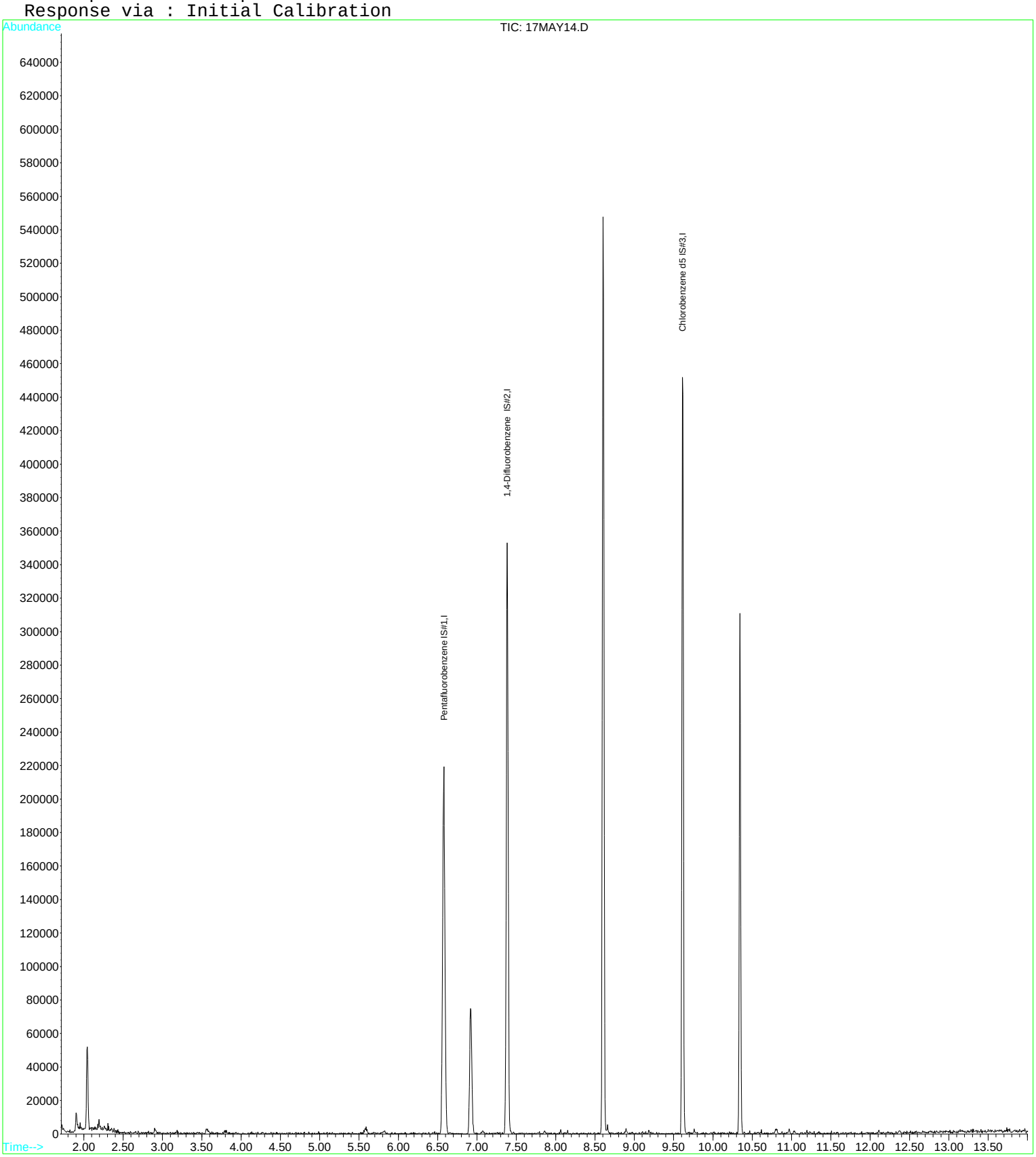
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY14.D Vial: 14
Acq On : 17 May 2017 11:32 am Operator: MGC
Sample : 1713059-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:49 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY15.D Vial: 15
Acq On : 17 May 2017 11:55 am Operator: MGC
Sample : 1713059-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:10 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	188850	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	271748	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	72314	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	57482	9.25	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 92.50%			
31) Toluene d8 SMC#2	8.60	98	304320	10.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.50%			
49) Bromofluorobenzene SMC#3	10.35	95	90316	9.46	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.60%			

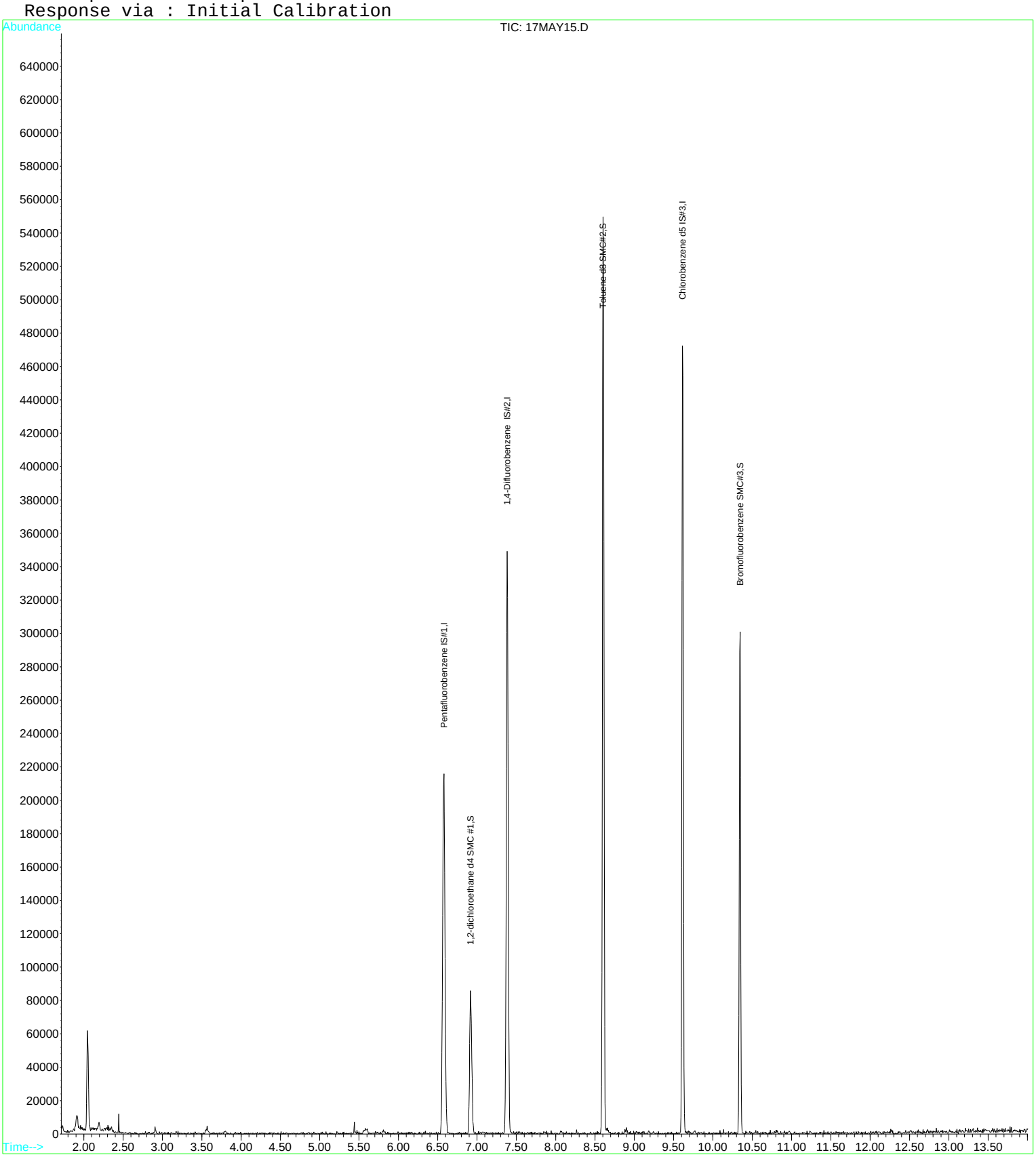
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY15.D Vial: 15
Acq On : 17 May 2017 11:55 am Operator: MGC
Sample : 1713059-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:10 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY15.D Vial: 15
Acq On : 17 May 2017 11:55 am Operator: MGC
Sample : 1713059-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:11 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	188850	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	271748	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	72314	10.00	ug/L	0.00

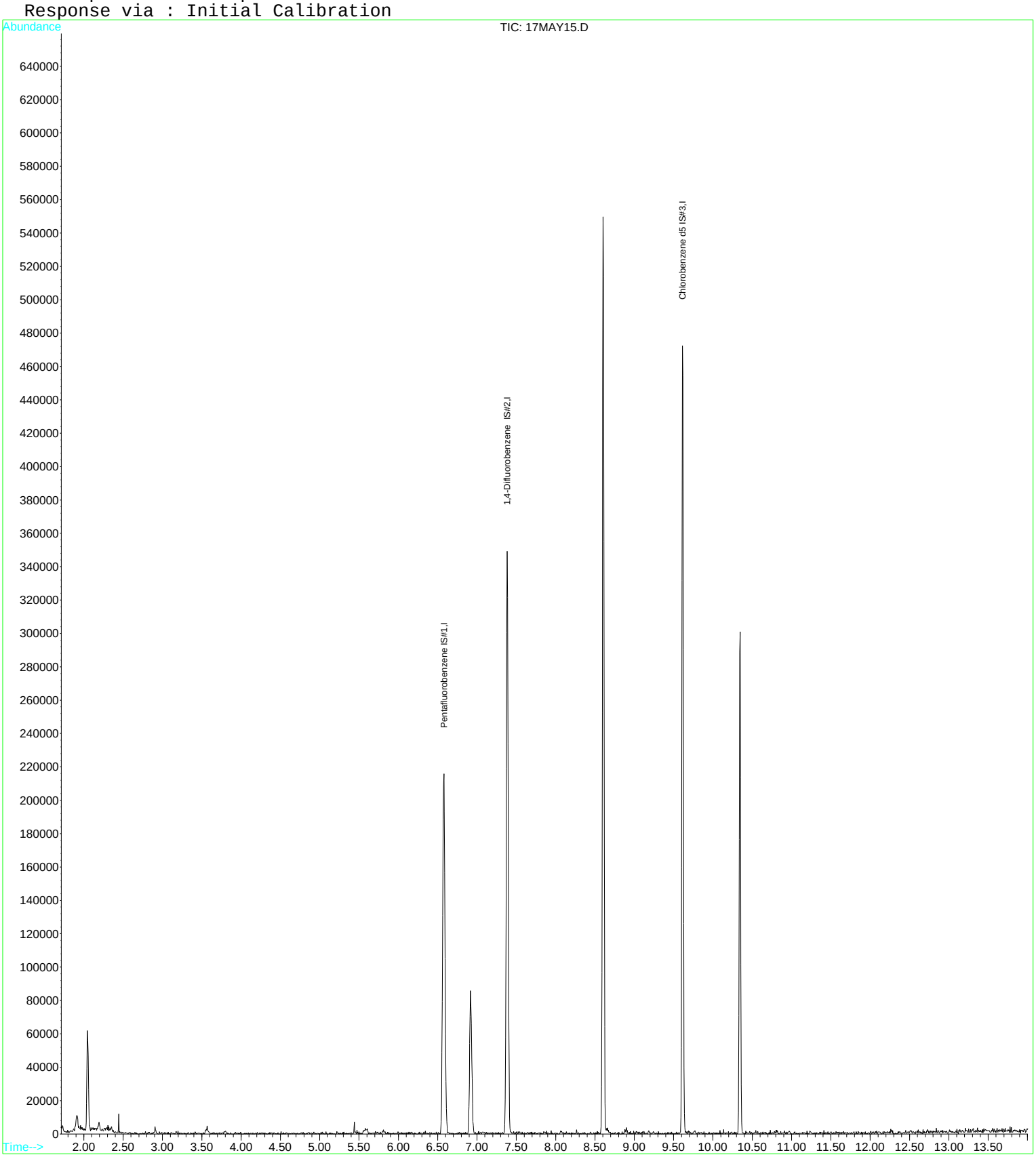
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY15.D Vial: 15
Acq On : 17 May 2017 11:55 am Operator: MGC
Sample : 1713059-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:11 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY07.D Vial: 7
Acq On : 17 May 2017 8:50 am Operator: MGC
Sample : 1713059-04 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:35 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	182159	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	274505	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	71005	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	59635	9.95	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.50%			
31) Toluene d8 SMC#2	8.61	98	308294	10.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.80%			
49) Bromofluorobenzene SMC#3	10.34	95	94996	10.13	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.30%			

Target Compounds

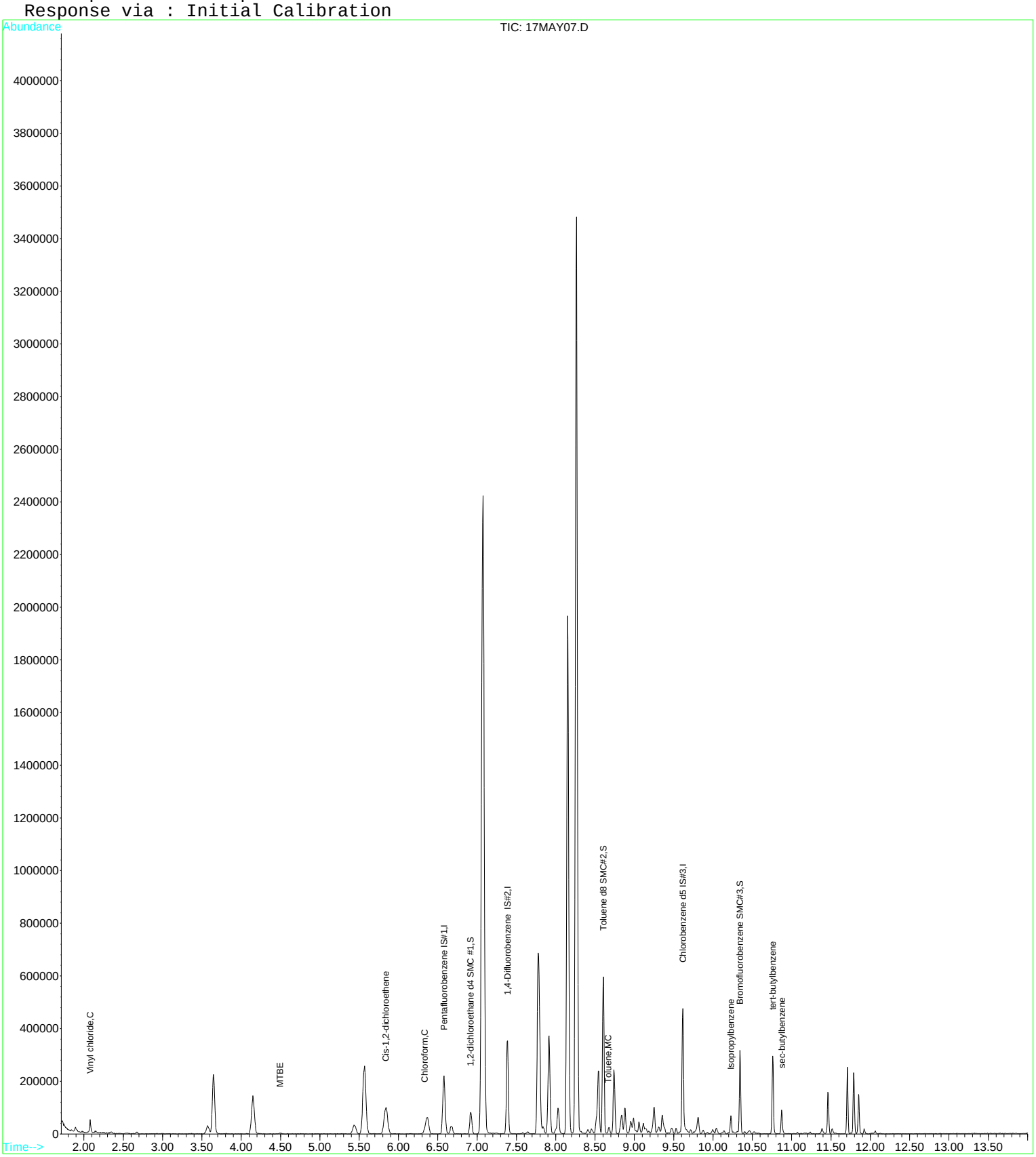
						Qvalue
4) Vinyl chloride	2.08	62	21913	1.85	ug/L	85
11) MTBE	4.49	73	2784	0.24	ug/L	99
15) Cis-1,2-dichloroethene	5.83	96	1841	0.20	ug/L #	62
17) Chloroform	6.33	83	8648	0.59	ug/L	80
32) Toluene	8.66	92	1399	0.07	ug/L #	78
47) Isopropylbenzene	10.23	105	35993	1.03	ug/L	99
56) tert-butylbenzene	10.76	119	113389	3.97	ug/L	81
58) sec-butylbenzene	10.88	105	5444	0.15	ug/L #	1

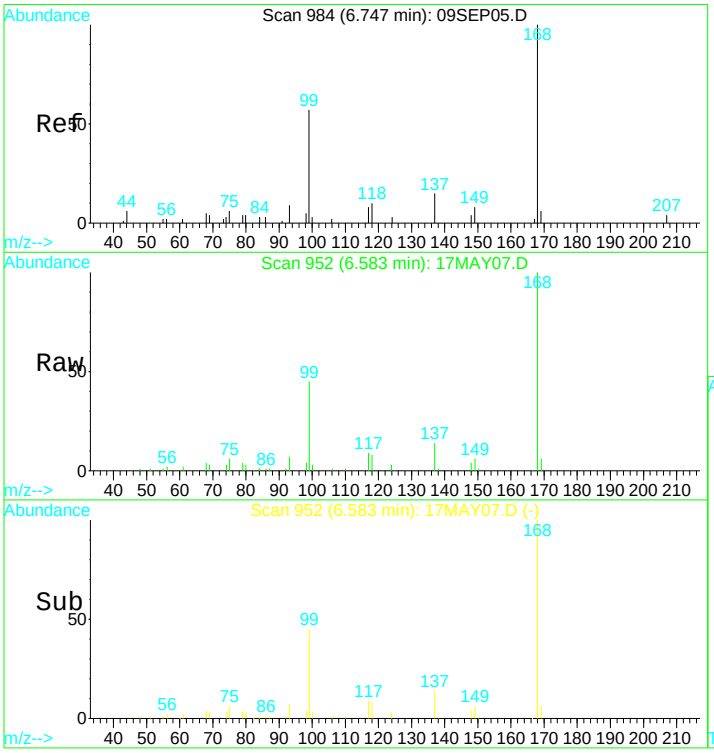
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY07.D Vial: 7
Acq On : 17 May 2017 8:50 am Operator: MGC
Sample : 1713059-04 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:35 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

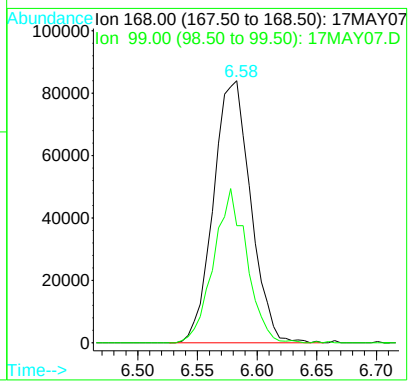


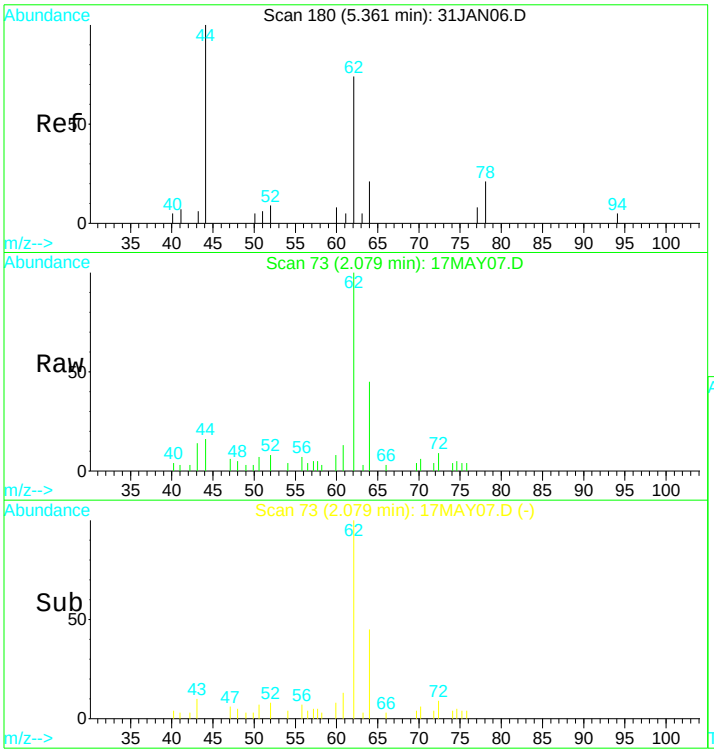


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 952
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion:168 Resp: 182159

Ion	Ratio	Lower	Upper
168	100		
99	52.3	37.7	69.9

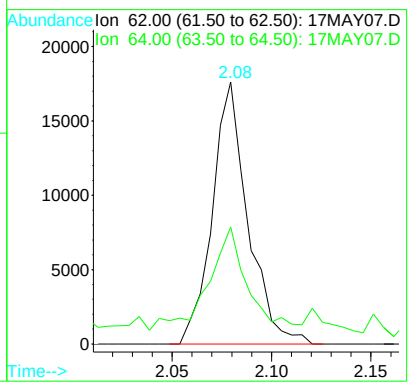


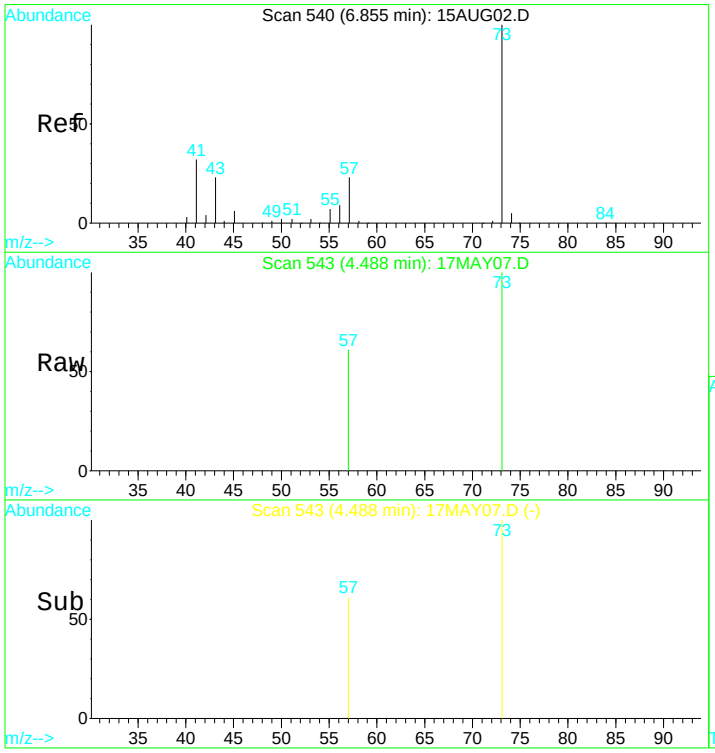


#4
Vinyl chloride
Concen: 1.85 ug/L
RT: 2.08 min Scan# 73
Delta R.T. 0.01 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 62 Resp: 21913

Ion	Ratio	Lower	Upper
62	100		
64	47.1	40.7	75.7

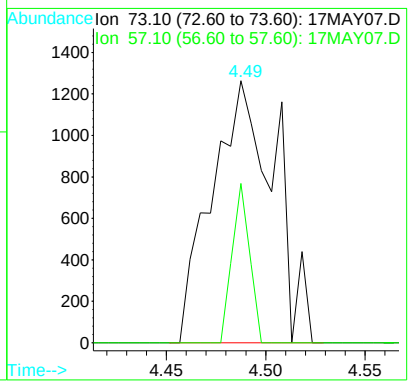


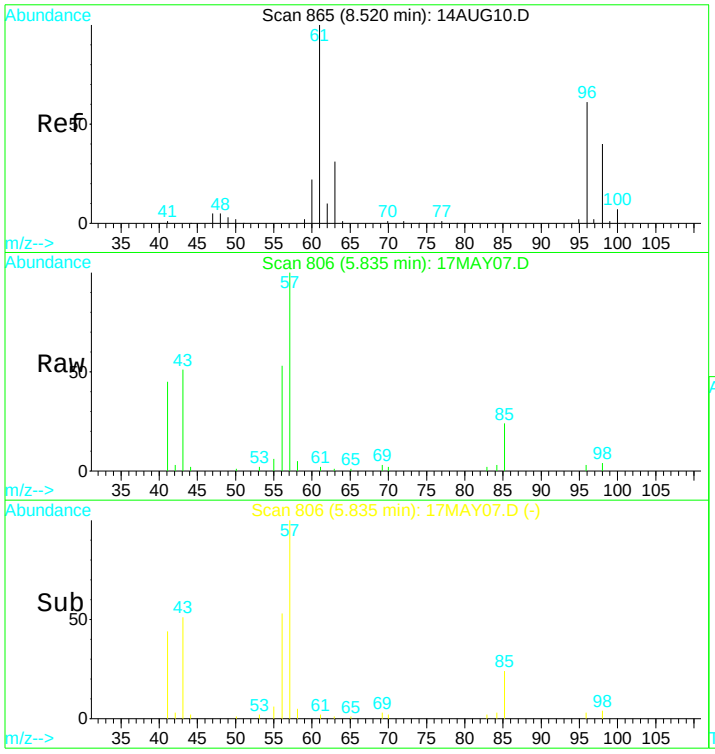


#11
MTBE
Concen: 0.24 ug/L
RT: 4.49 min Scan# 543
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 73 Resp: 2784

Ion	Ratio	Lower	Upper
73	100		
57	16.9	12.0	22.2

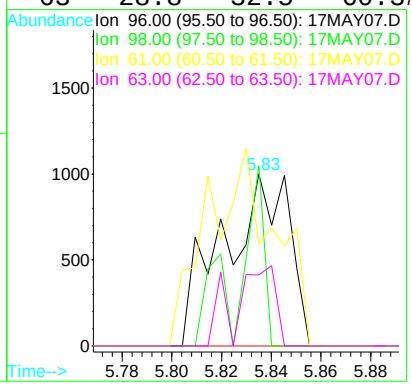


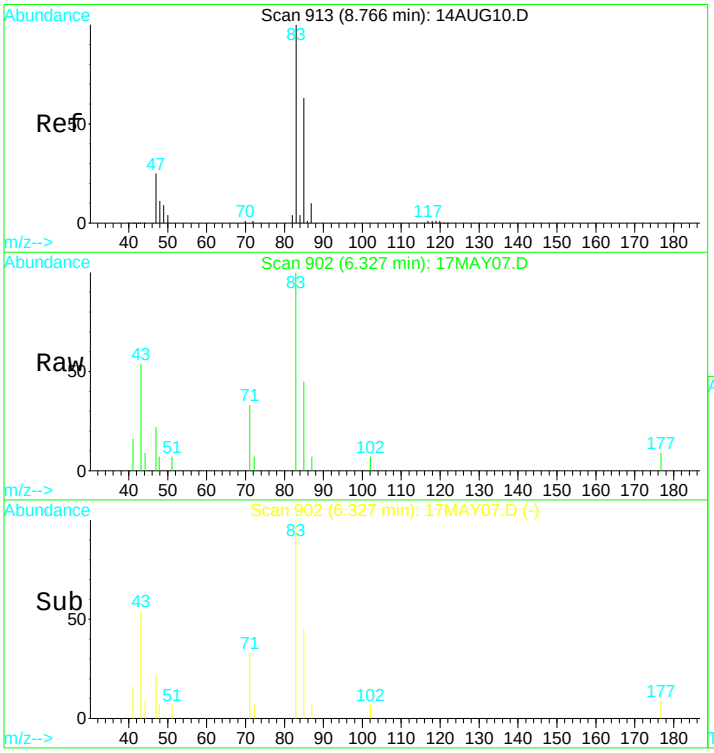


#15
Cis-1,2-dichloroethene
Concen: 0.20 ug/L
RT: 5.83 min Scan# 806
Delta R.T. 0.01 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 96 Resp: 1841

Ion	Ratio	Lower	Upper
96	100		
98	25.9	44.2	82.0#
61	117.3	117.9	218.9#
63	28.8	32.5	60.3#

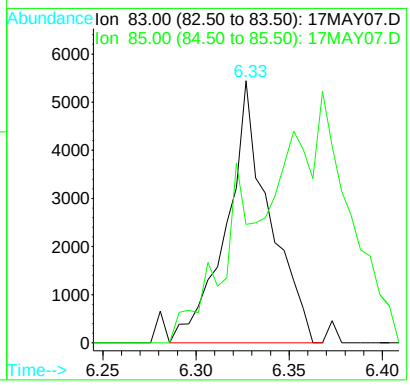


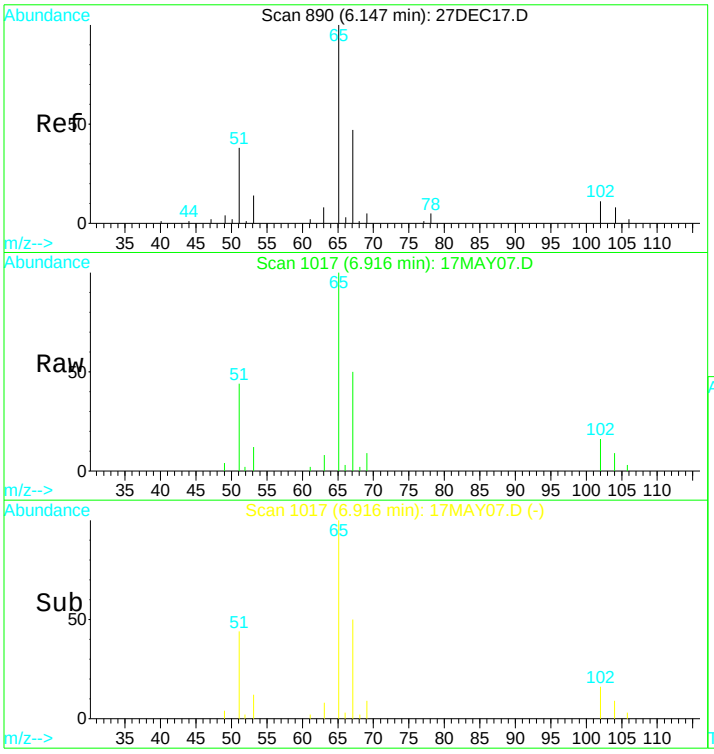


#17
Chloroform
Concen: 0.59 ug/L
RT: 6.33 min Scan# 902
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 83 Resp: 8648

Ion	Ratio	Lower	Upper
83	100		
85	52.7	48.4	89.8

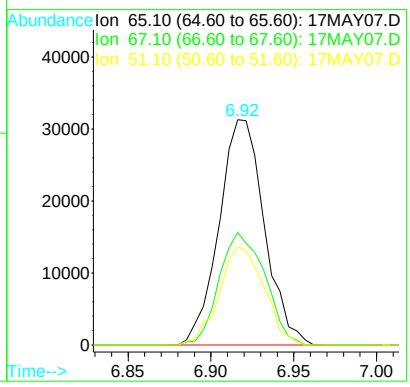


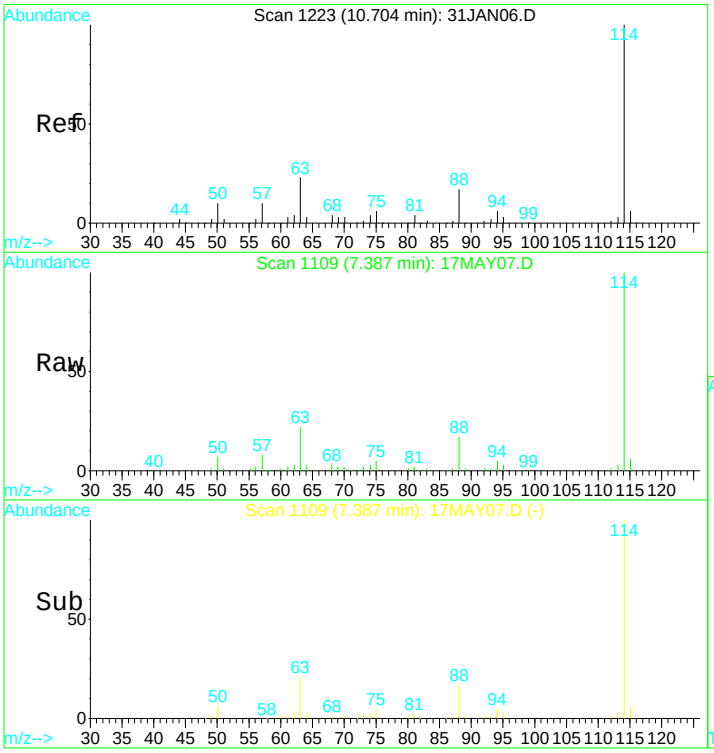


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 65 Resp: 59635

Ion	Ratio	Lower	Upper
65	100		
67	50.3	34.4	63.8
51	43.1	33.2	61.7

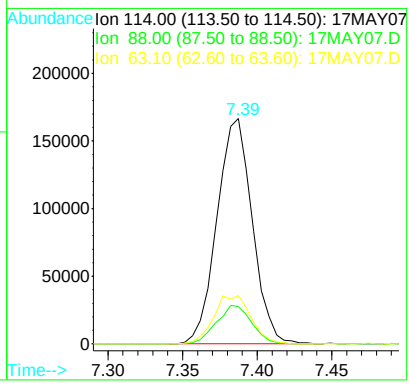


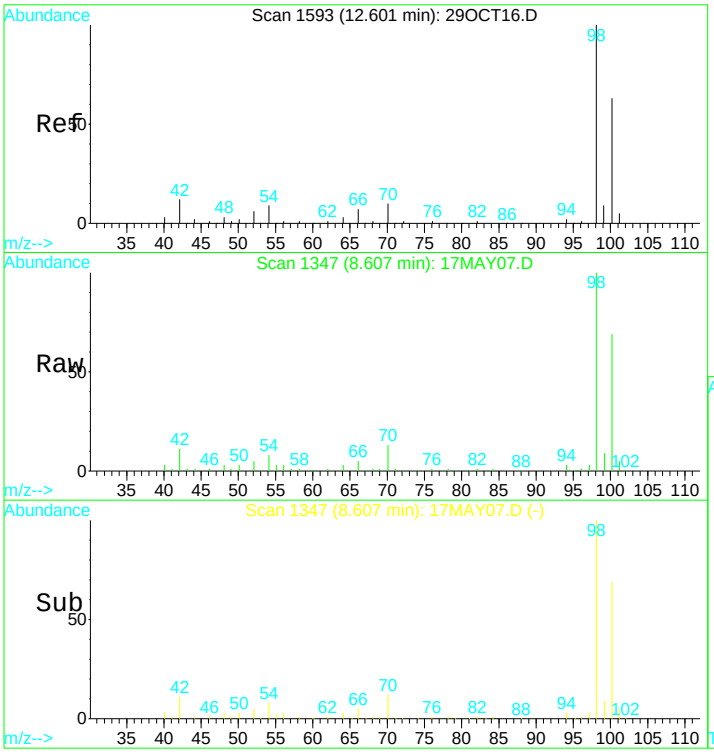


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.39 min Scan# 1109
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion:114 Resp: 274505

Ion	Ratio	Lower	Upper
114	100		
88	17.0	12.6	23.4
63	22.7	15.7	29.1

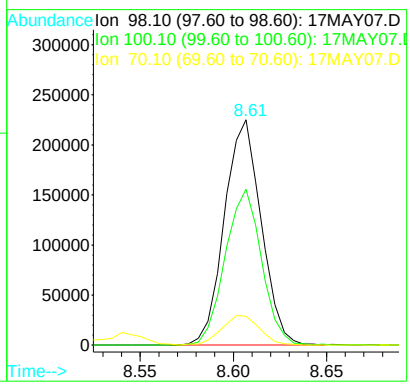


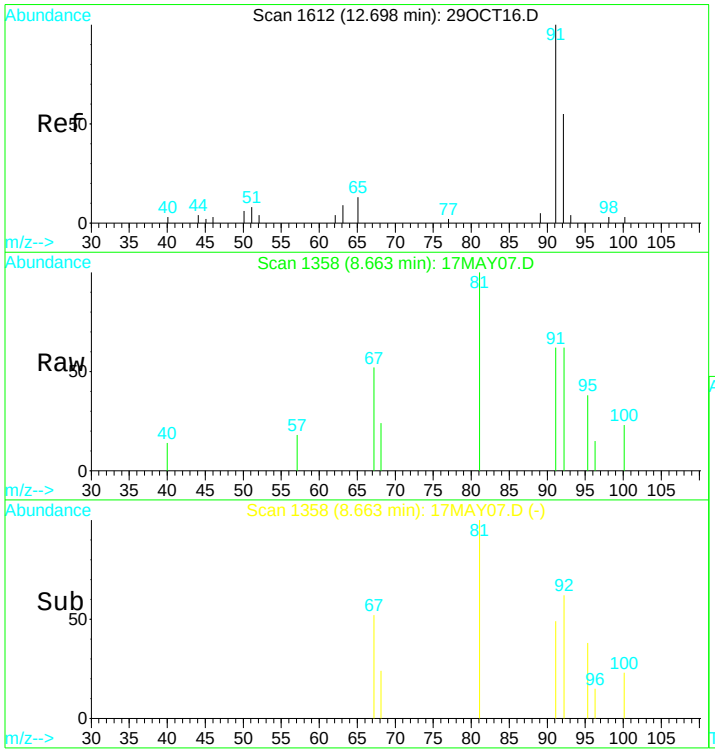


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.61 min Scan# 1347
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 98 Resp: 308294

Ion	Ratio	Lower	Upper
98	100		
100	68.3	48.7	90.5
70	13.6	7.4	13.8

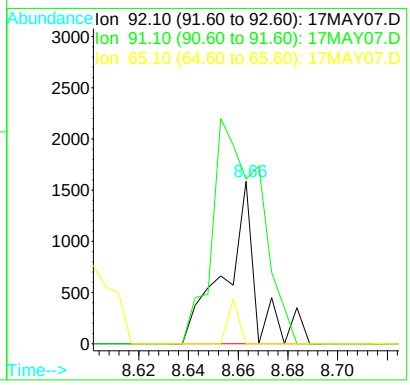


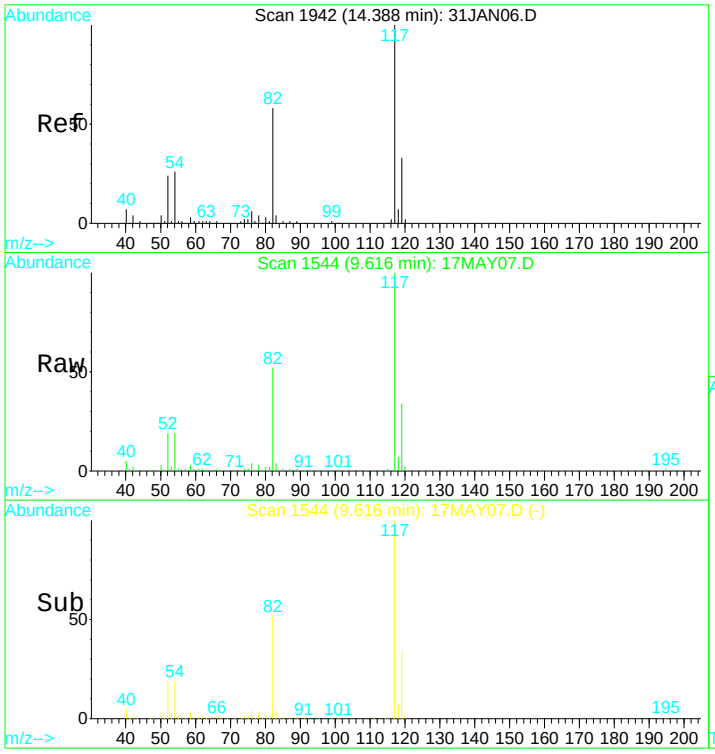


#32
Toluene
Concen: 0.07 ug/L
RT: 8.66 min Scan# 1358
Delta R.T. 0.01 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 92 Resp: 1399

Ion	Ratio	Lower	Upper
92	100		
91	208.3	125.4	233.0
65	9.6	16.6	30.8#

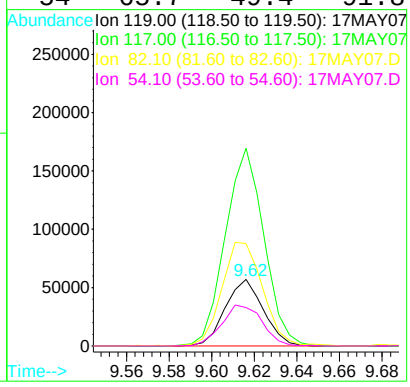


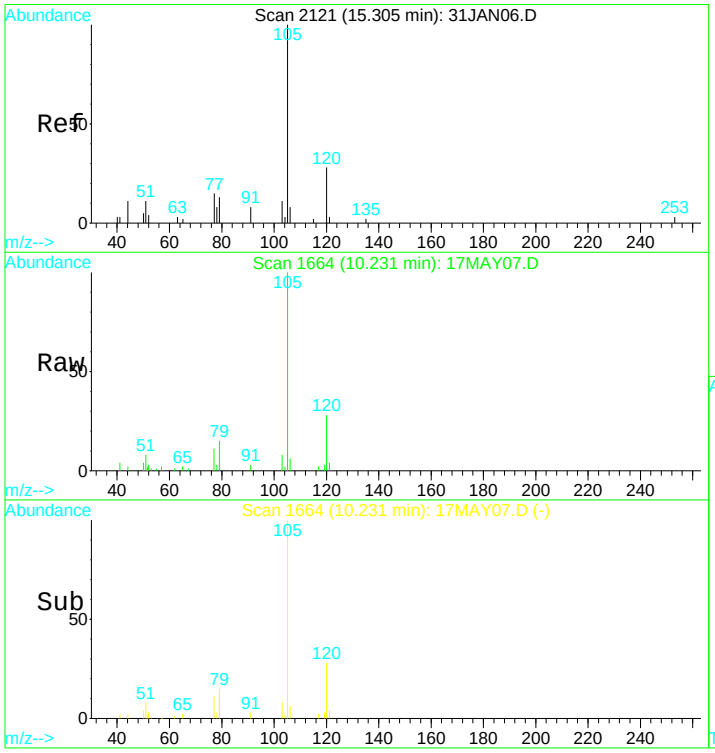


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion:119 Resp: 71005

Ion	Ratio	Lower	Upper
119	100		
117	301.1	213.6	396.6
82	168.1	119.2	221.4
54	65.7	49.4	91.8

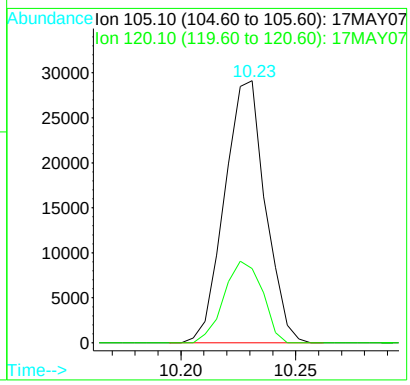


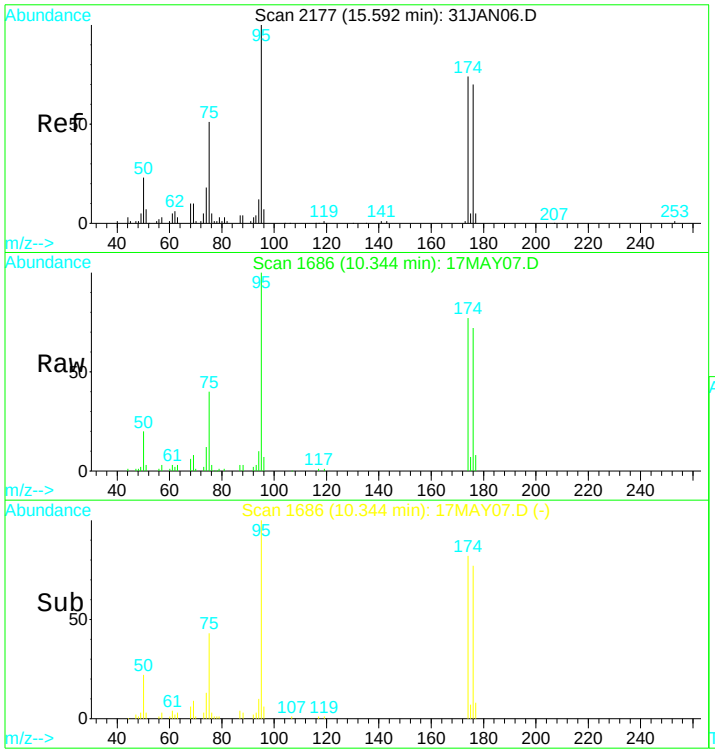


#47
Isopropylbenzene
Concen: 1.03 ug/L
RT: 10.23 min Scan# 1664
Delta R.T. 0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion:105 Resp: 35993

Ion	Ratio	Lower	Upper
105	100		
120	29.4	20.3	37.7

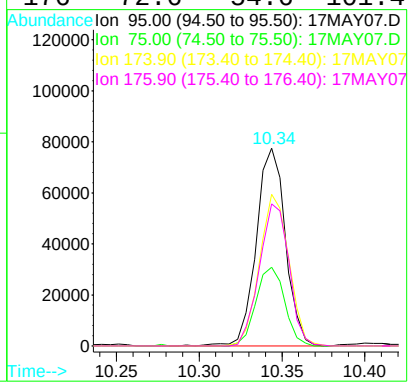


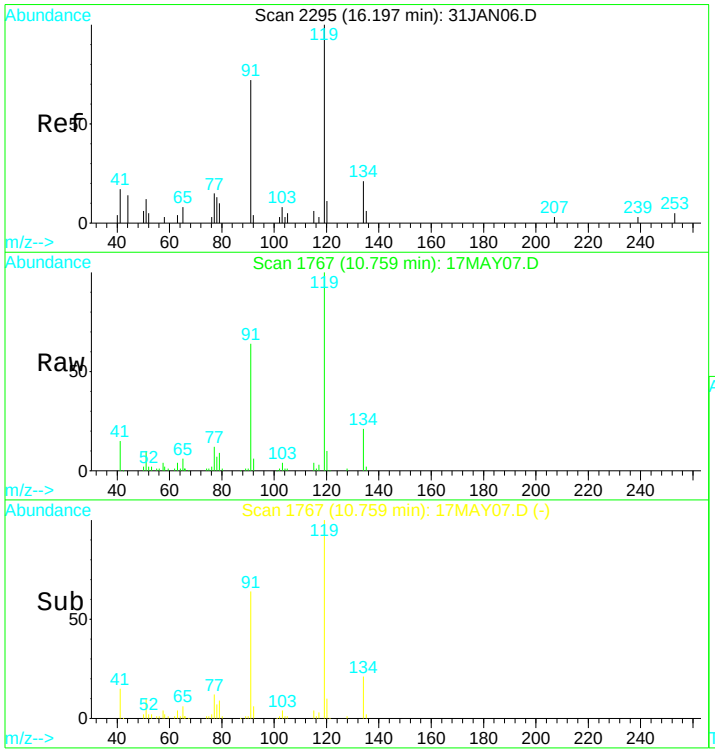


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. -0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion: 95 Resp: 94996

Ion	Ratio	Lower	Upper
95	100		
75	39.1	29.0	53.8
174	76.9	55.8	103.6
176	72.6	54.6	101.4

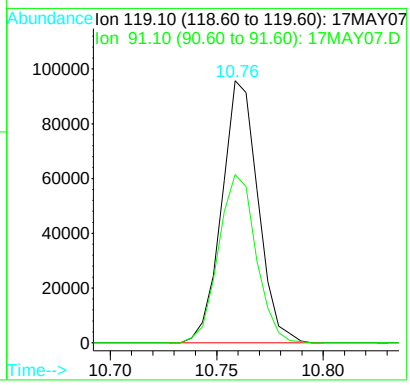


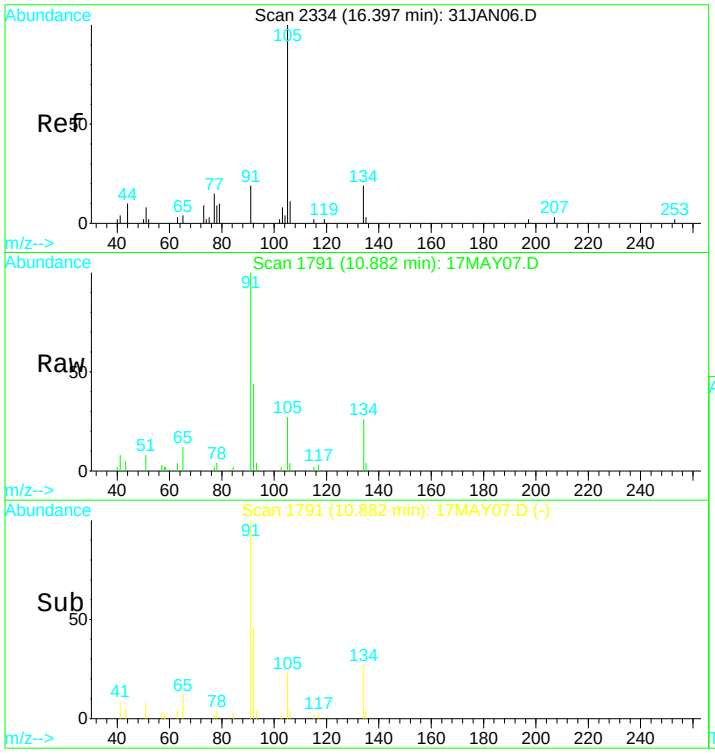


#56
tert-butylbenzene
Concen: 3.97 ug/L
RT: 10.76 min Scan# 1767
Delta R.T. -0.00 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion:119 Resp: 113389

Ion	Ratio	Lower	Upper
119	100		
91	66.4	37.0	68.6

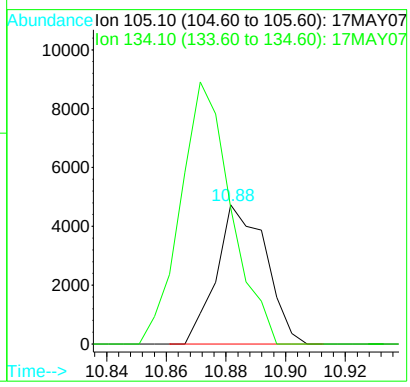




#58
sec-butylbenzene
Concen: 0.15 ug/L
RT: 10.88 min Scan# 1791
Delta R.T. -0.01 min
Lab File: 17MAY07.D
Acq: 17 May 2017 8:50 am

Tgt Ion:105 Resp: 5444

Ion	Ratio	Lower	Upper
105	100		
134	192.3	14.1	26.1#



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY07.D Vial: 7
Acq On : 17 May 2017 8:50 am Operator: MGC
Sample : 1713059-04 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:37 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	182159	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	274505	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	71005	10.00	ug/L	0.00

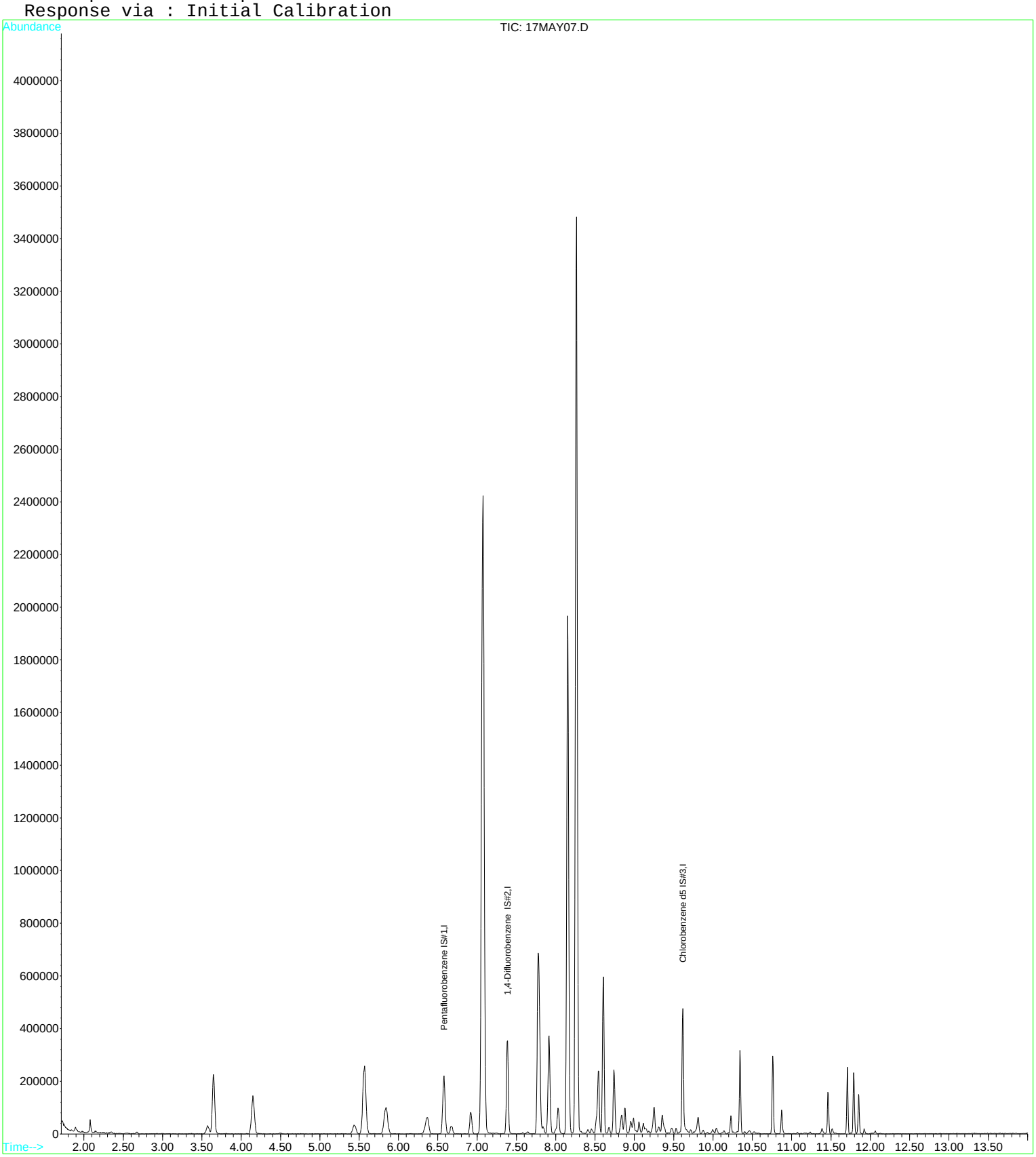
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY07.D Vial: 7
Acq On : 17 May 2017 8:50 am Operator: MGC
Sample : 1713059-04 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:37 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY16.D Vial: 16
Acq On : 17 May 2017 12:18 pm Operator: MGC
Sample : 1713059-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:34 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191496	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	282202	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	65046	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	62823	9.97	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.70%			
31) Toluene d8 SMC#2	8.61	98	297515	9.46	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.60%			
49) Bromofluorobenzene SMC#3	10.34	95	82381	9.59	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.90%			

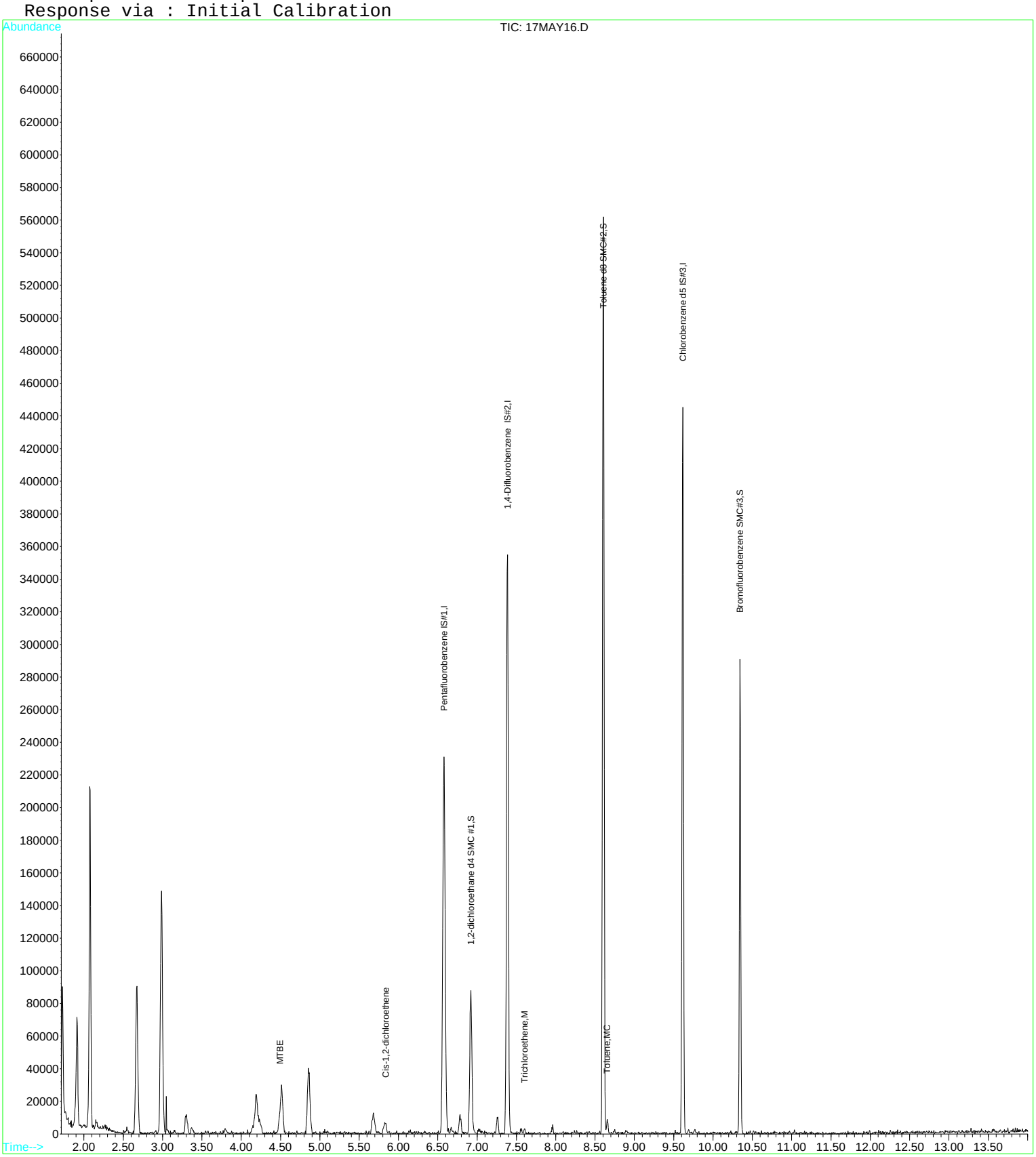
Target Compounds						Qvalue
11) MTBE	4.49	73	5108m	0.42	ug/L	
15) Cis-1,2-dichloroethene	5.85	96	3801	0.39	ug/L #	86
25) Trichloroethene	7.61	130	1067	0.11	ug/L #	72
32) Toluene	8.66	92	3307	0.16	ug/L #	89

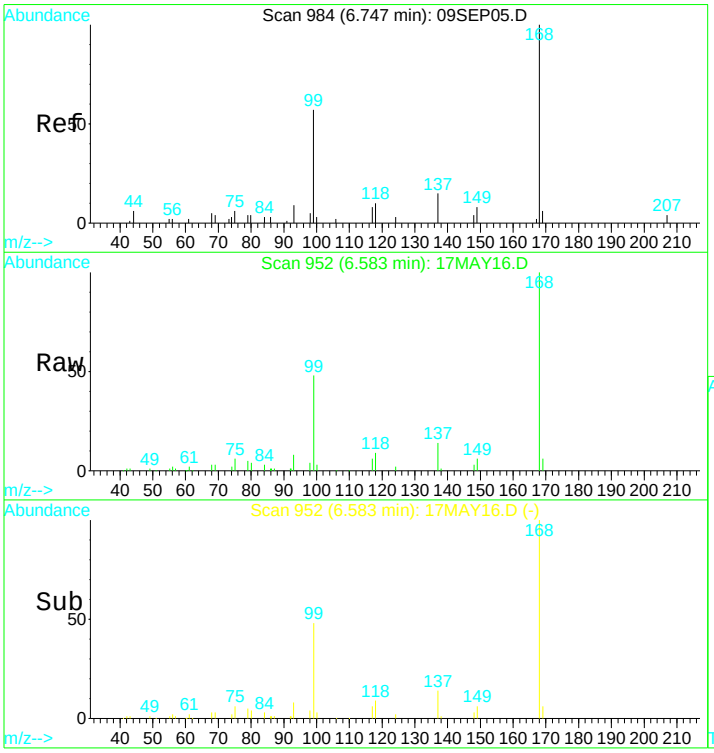
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY16.D Vial: 16
Acq On : 17 May 2017 12:18 pm Operator: MGC
Sample : 1713059-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:34 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

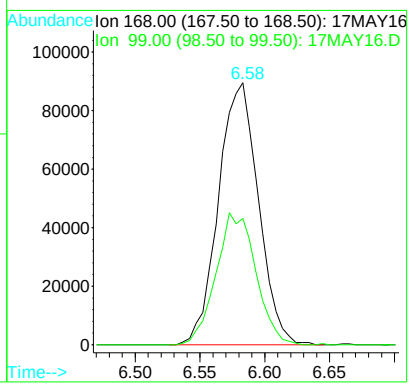


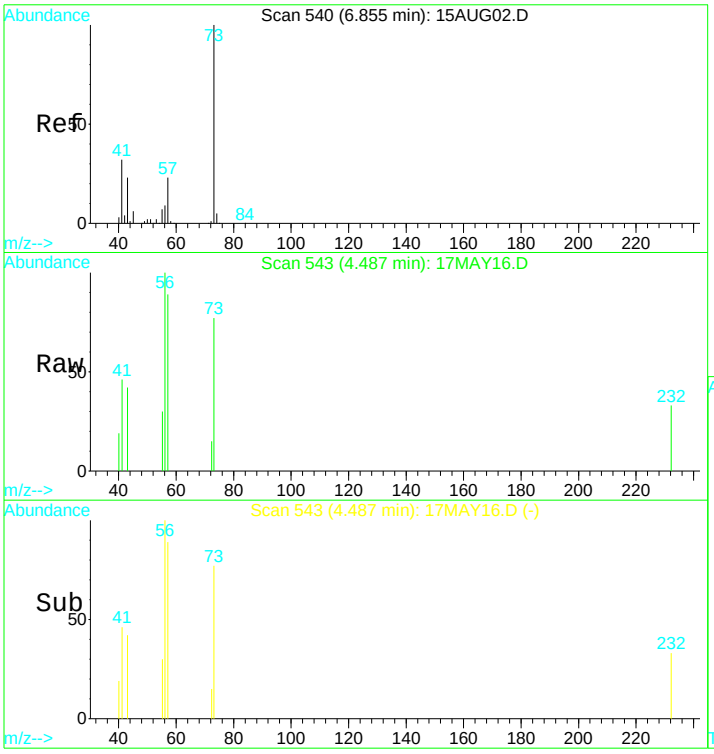


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 952
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion:168 Resp: 191496

Ion	Ratio	Lower	Upper
168	100		
99	50.2	37.7	69.9

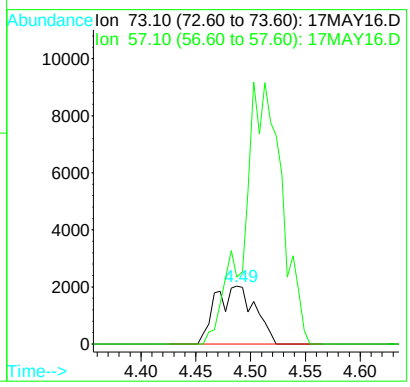


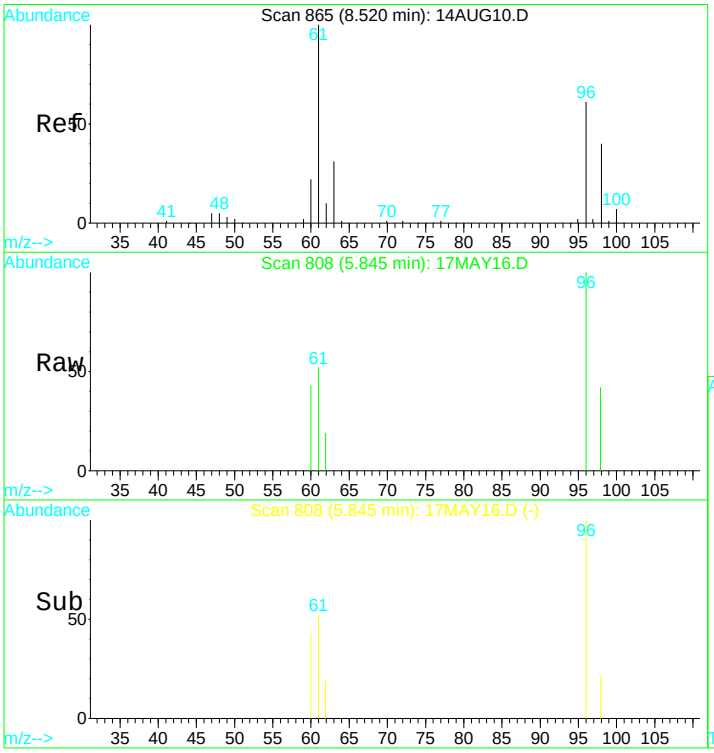


#11
MTBE
Concen: 0.42 ug/L m
RT: 4.49 min Scan# 543
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 73 Resp: 5108

Ion	Ratio	Lower	Upper
73	100		
57	437.6	12.0	22.2#

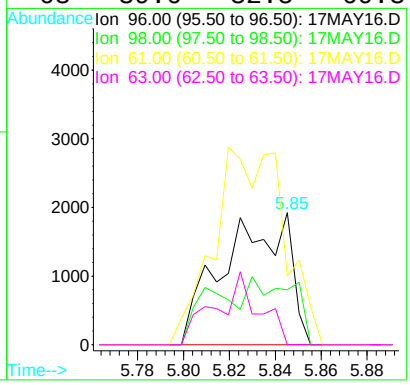


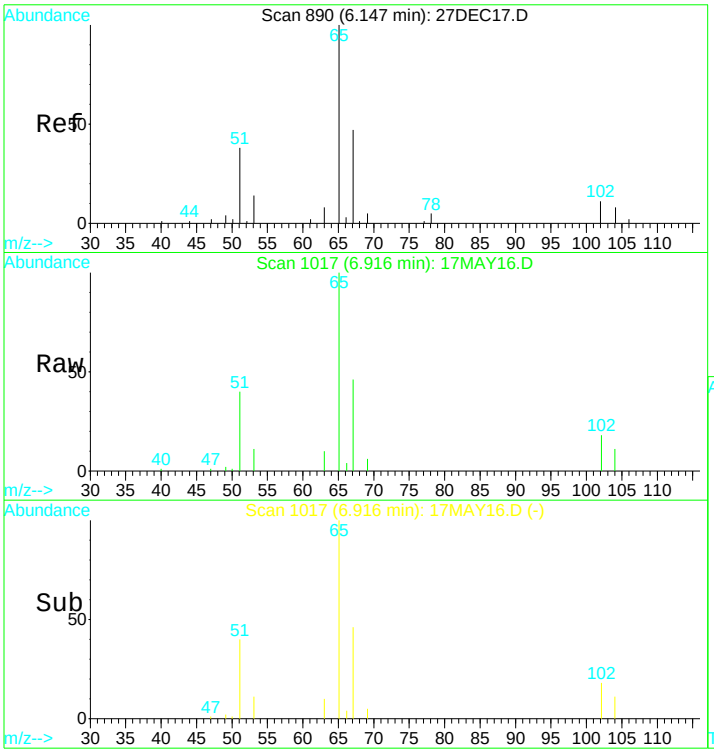


#15
Cis-1,2-dichloroethene
Concen: 0.39 ug/L
RT: 5.85 min Scan# 808
Delta R.T. 0.02 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 96 Resp: 3801

Ion	Ratio	Lower	Upper
96	100		
98	34.3	44.2	82.0#
61	160.5	117.9	218.9
63	39.0	32.5	60.3

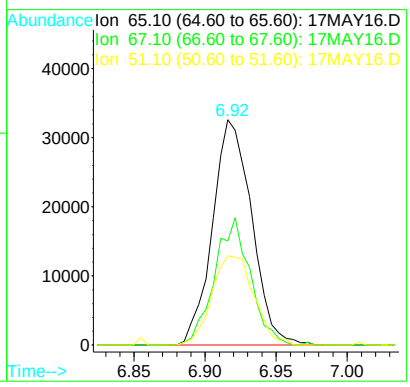


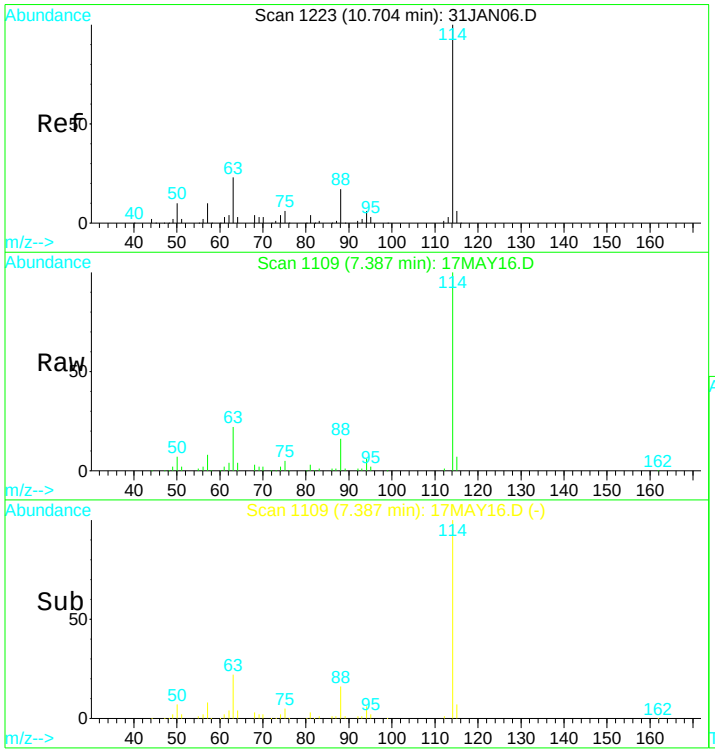


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 65 Resp: 62823

Ion	Ratio	Lower	Upper
65	100		
67	51.3	34.4	63.8
51	42.5	33.2	61.7

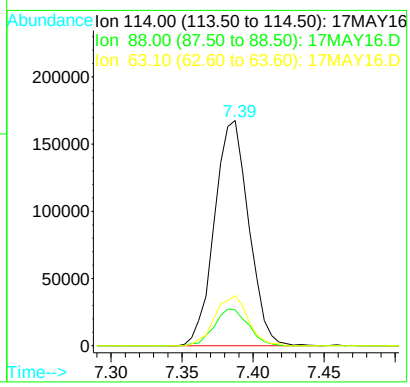


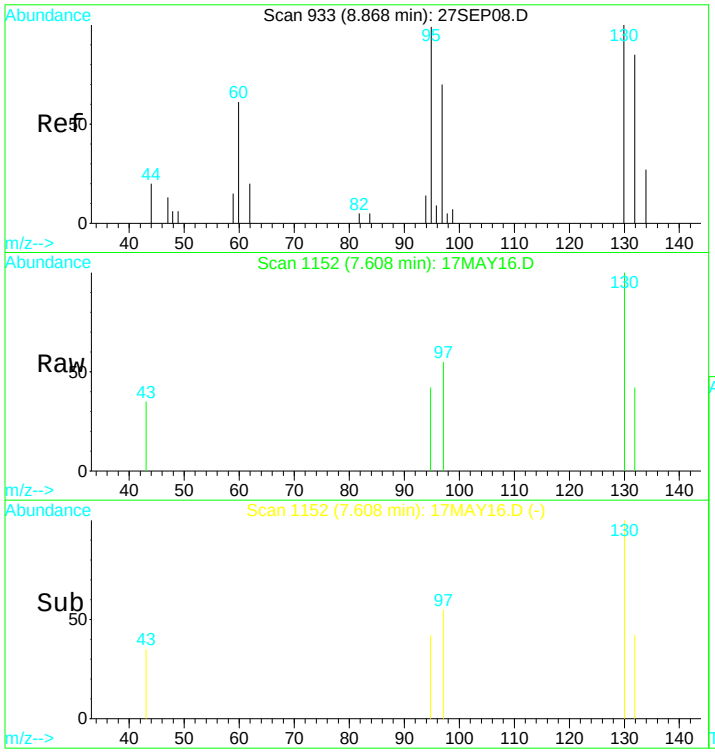


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.39 min Scan# 1109
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion:114 Resp: 282202

Ion	Ratio	Lower	Upper
114	100		
88	16.3	12.6	23.4
63	21.6	15.7	29.1

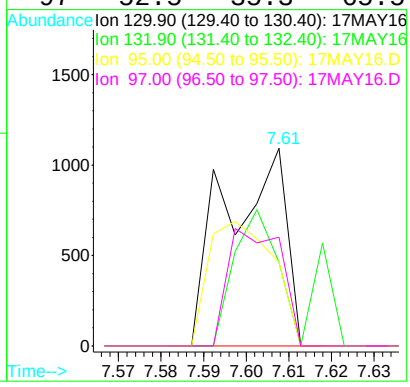


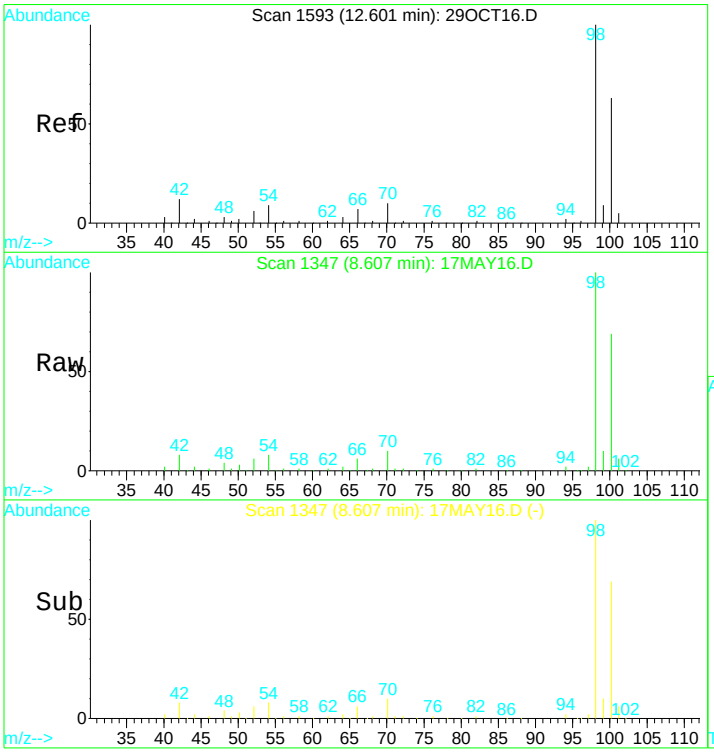


#25
Trichloroethene
Concen: 0.11 ug/L
RT: 7.61 min Scan# 1152
Delta R.T. 0.01 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion:130 Resp: 1067

Ion	Ratio	Lower	Upper
130	100		
132	50.0	62.4	115.8#
95	68.0	67.5	125.4
97	52.5	35.3	65.5

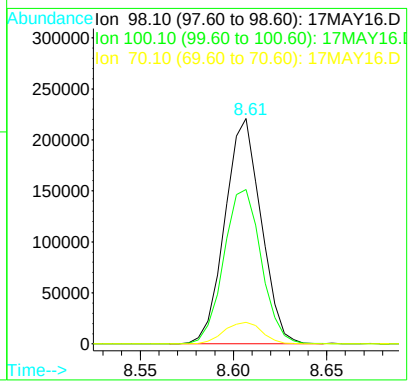


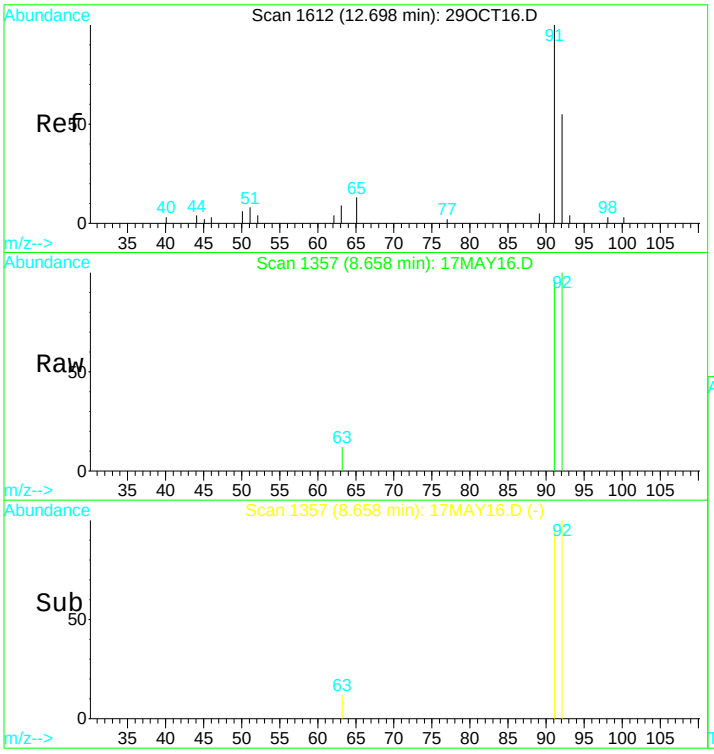


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.61 min Scan# 1347
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 98 Resp: 297515

Ion	Ratio	Lower	Upper
98	100		
100	71.1	48.7	90.5
70	10.2	7.4	13.8

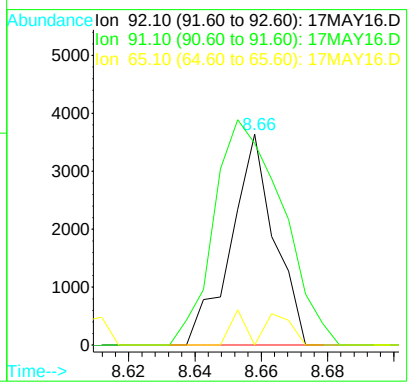


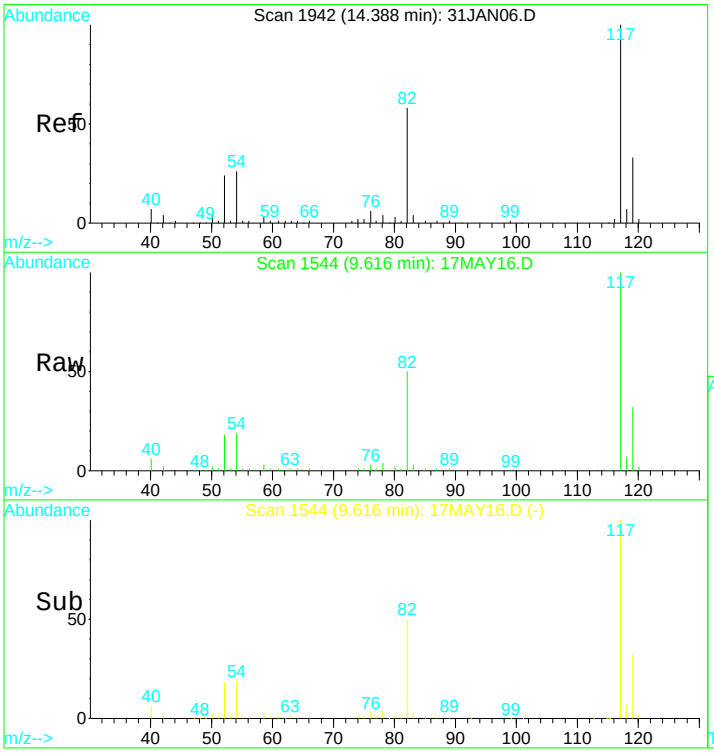


#32
Toluene
Concen: 0.16 ug/L
RT: 8.66 min Scan# 1357
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 92 Resp: 3307

Ion	Ratio	Lower	Upper
92	100		
91	168.2	125.4	233.0
65	5.7	16.6	30.8#

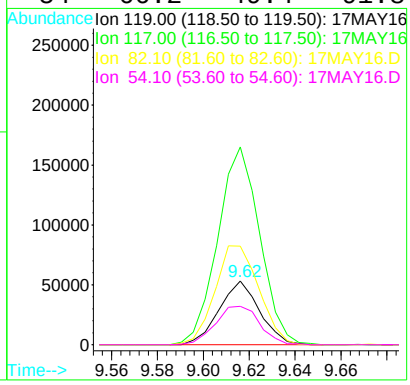


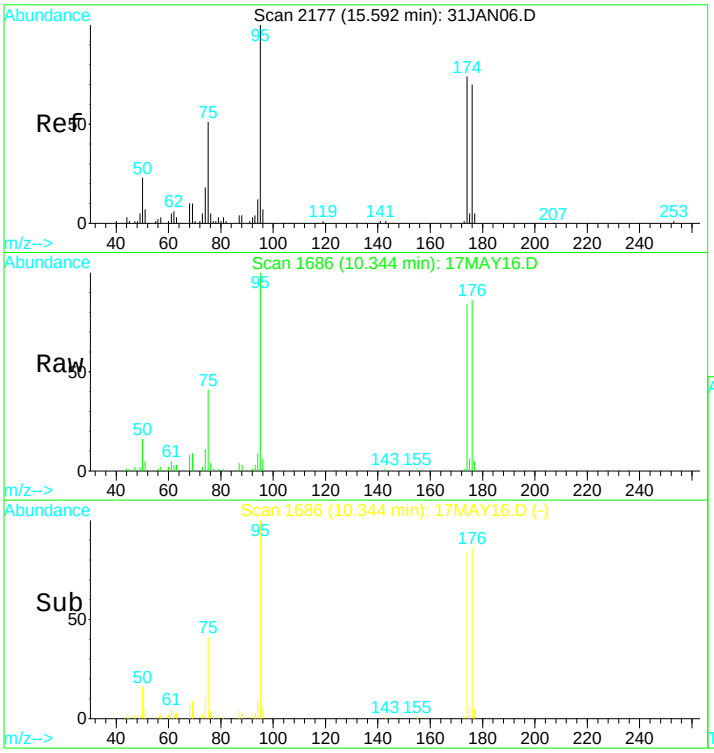


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion:119 Resp: 65046

Ion	Ratio	Lower	Upper
119	100		
117	322.2	213.6	396.6
82	169.2	119.2	221.4
54	66.2	49.4	91.8

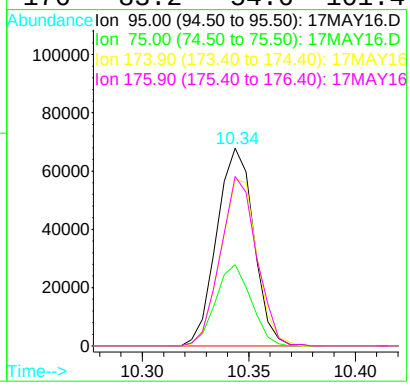




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. -0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 95 Resp: 82381

Ion	Ratio	Lower	Upper
95	100		
75	39.4	29.0	53.8
174	82.9	55.8	103.6
176	83.2	54.6	101.4



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY16.D Vial: 16
Acq On : 17 May 2017 12:18 pm Operator: MGC
Sample : 1713059-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:35 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191496	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	282202	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	65046	10.00	ug/L	0.00

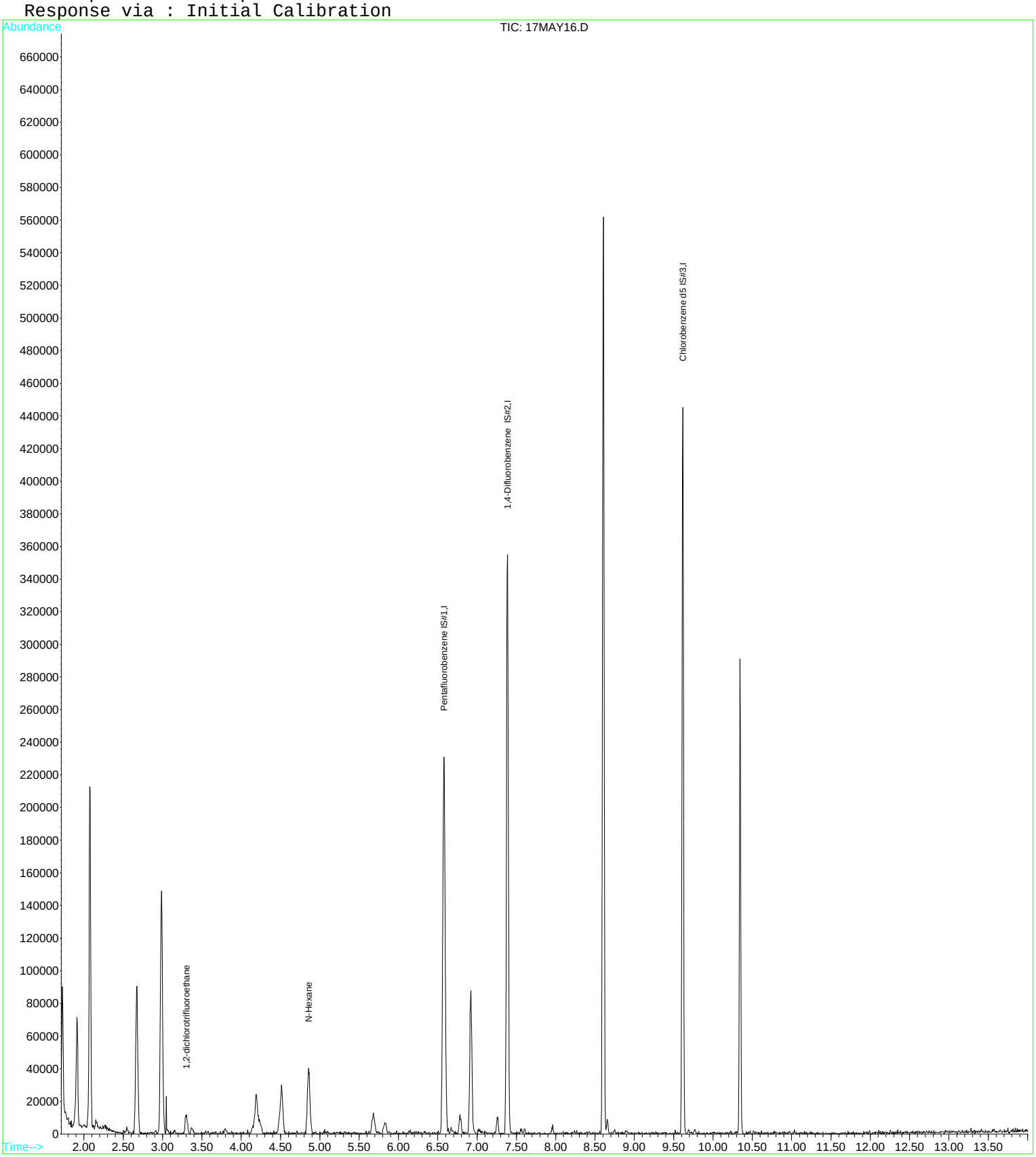
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	7981	0.72	ug/L #	82
16) N-Hexane	4.86	57	28046	2.57	ug/L	95

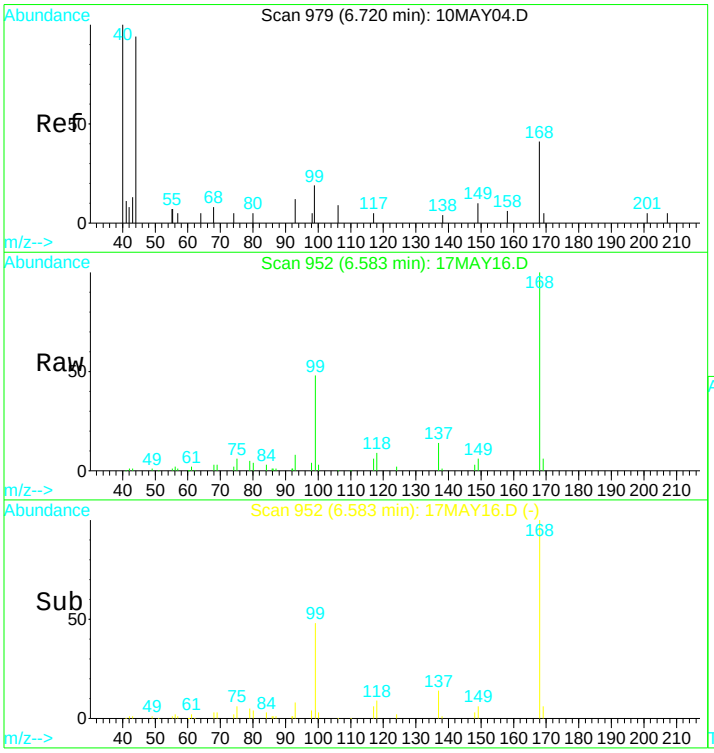
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY16.D Vial: 16
Acq On : 17 May 2017 12:18 pm Operator: MGC
Sample : 1713059-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:35 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration

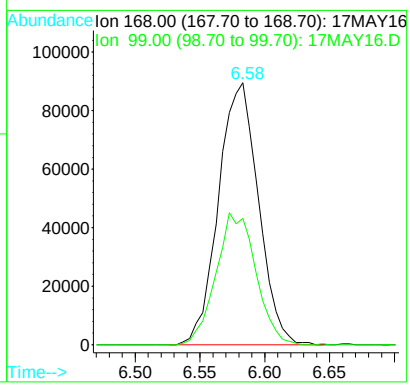


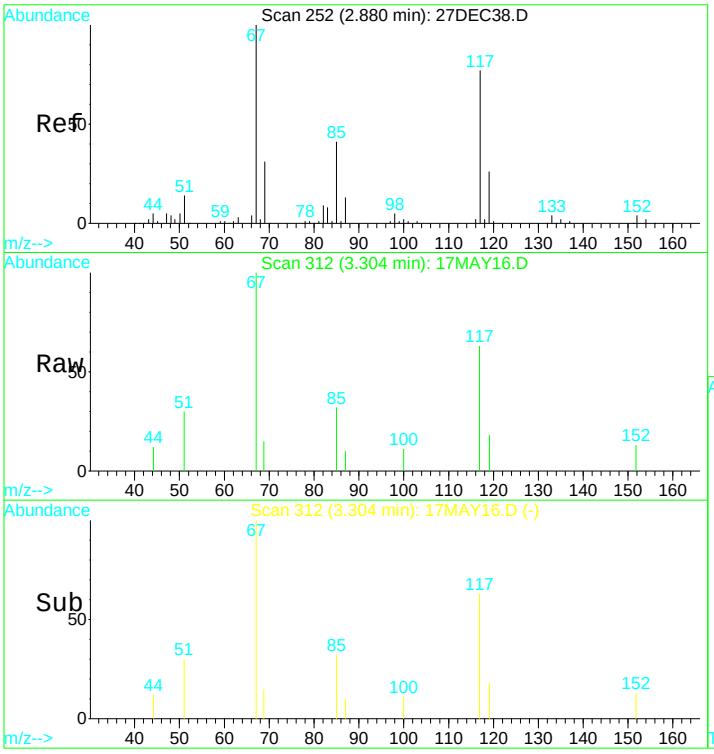


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 952
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion:168 Resp: 191496

Ion	Ratio	Lower	Upper
168	100		
99	50.2	34.8	64.6

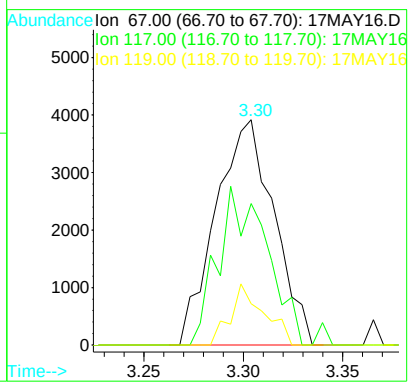


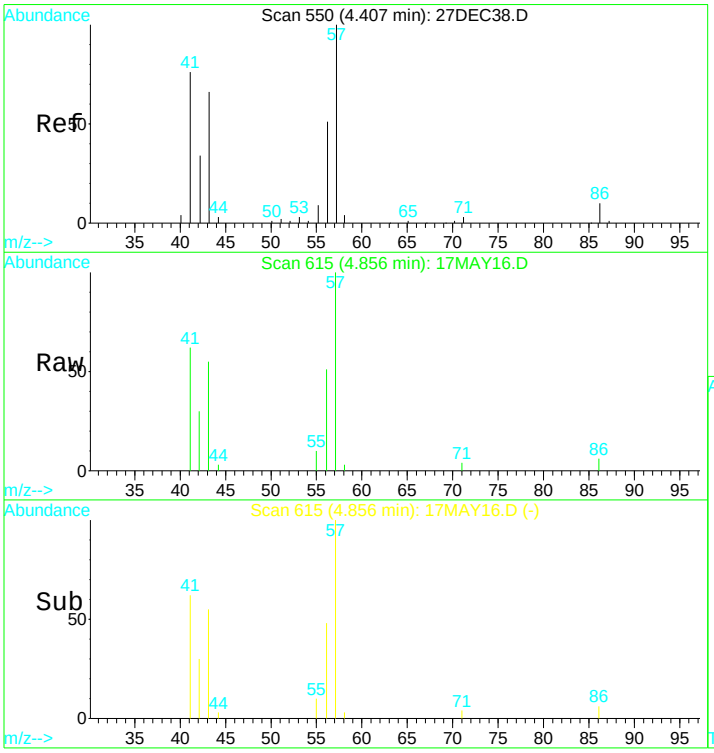


#4
1,2-dichlorotrifluoroethane
Concen: 0.72 ug/L
RT: 3.30 min Scan# 312
Delta R.T. 0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 67 Resp: 7981

Ion	Ratio	Lower	Upper
67	100		
117	59.1	51.7	96.1
119	15.5	17.3	32.1#

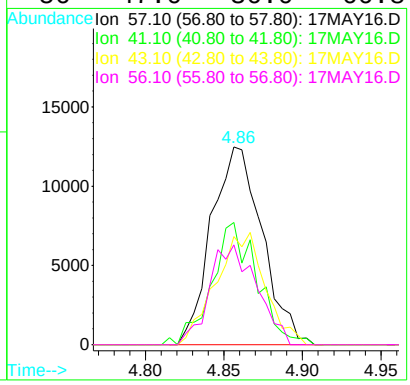


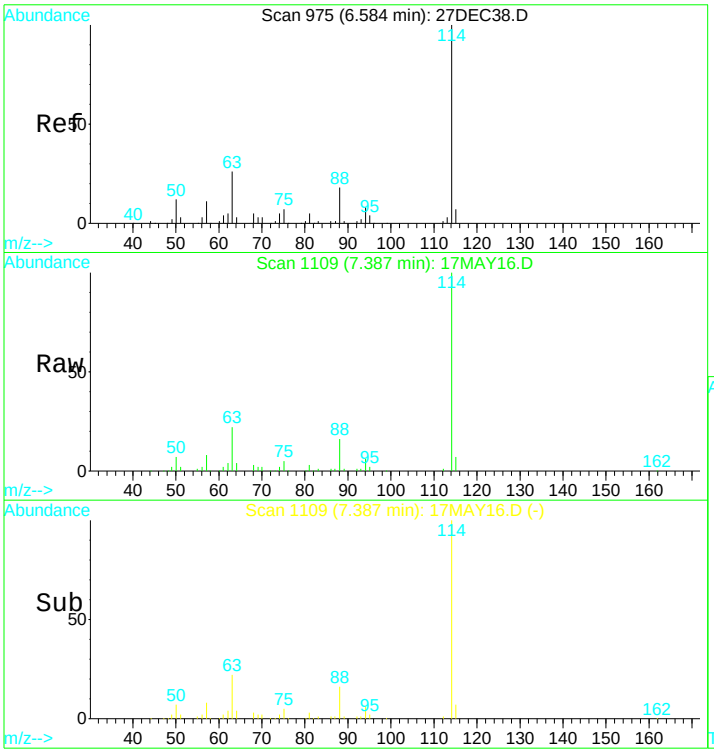


#16
N-Hexane
Concen: 2.57 ug/L
RT: 4.86 min Scan# 615
Delta R.T. -0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion: 57 Resp: 28046

Ion	Ratio	Lower	Upper
57	100		
41	55.1	42.2	78.4
43	54.9	40.1	74.5
56	47.0	36.0	66.8

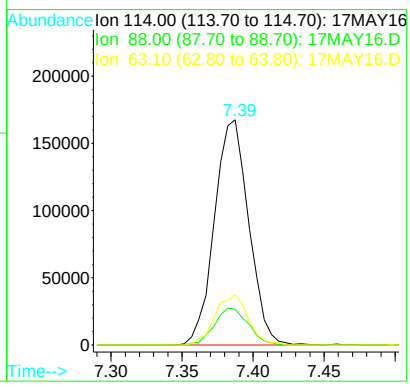


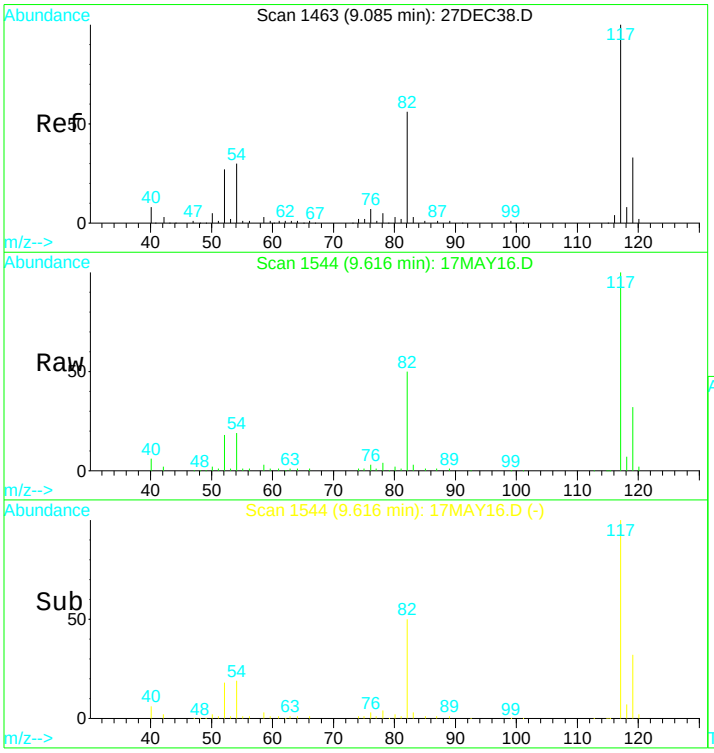


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.39 min Scan# 1109
Delta R.T. -0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion:114 Resp: 282202

Ion	Ratio	Lower	Upper
114	100		
88	16.3	12.0	22.2
63	21.6	15.8	29.3

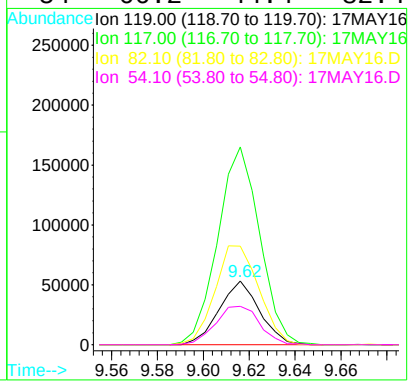




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. -0.00 min
Lab File: 17MAY16.D
Acq: 17 May 2017 12:18 pm

Tgt Ion:119 Resp: 65046

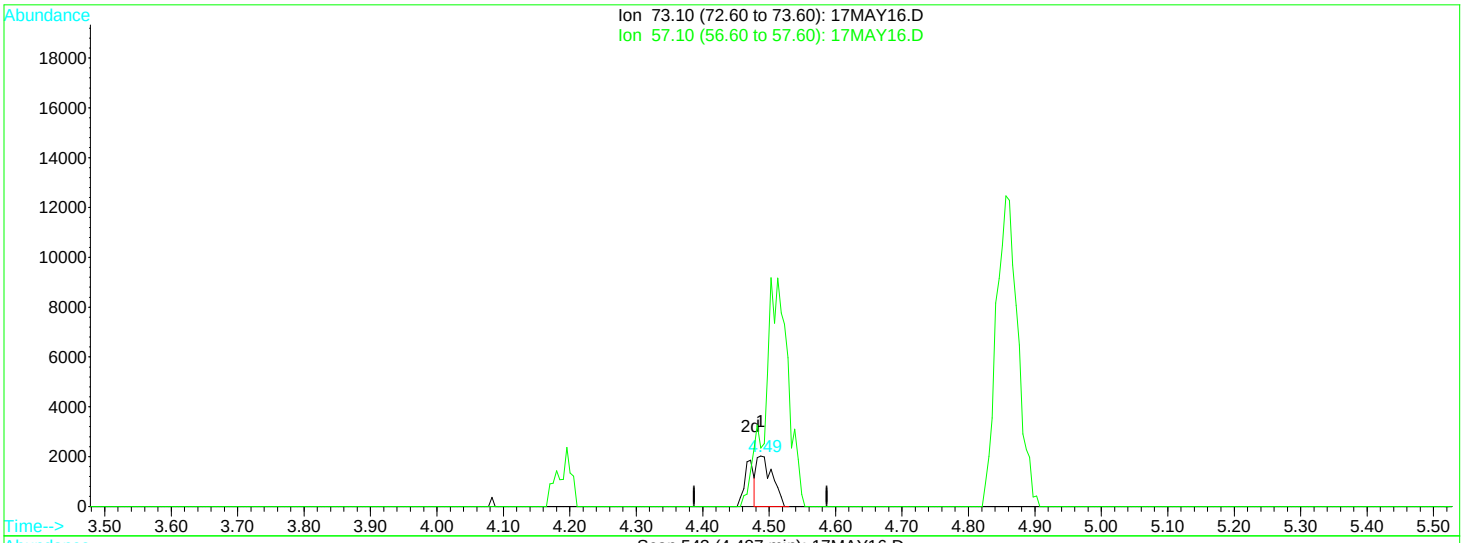
Ion	Ratio	Lower	Upper
119	100		
117	322.2	207.6	385.6
82	169.2	110.0	204.2
54	66.2	44.4	82.4

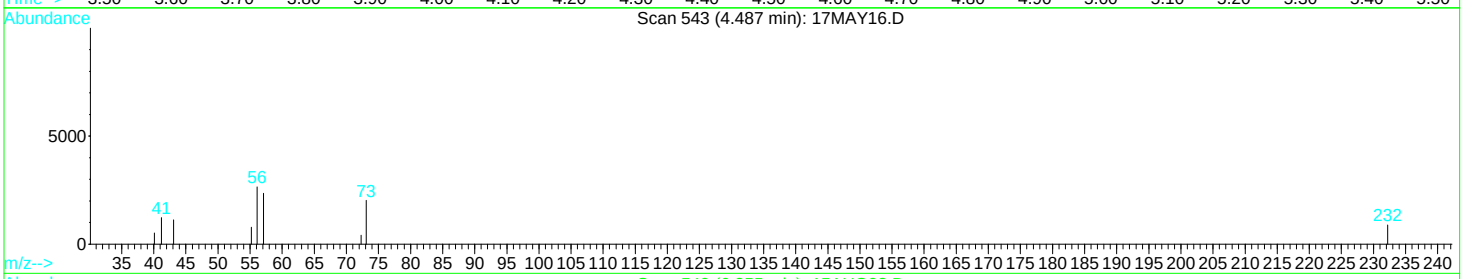


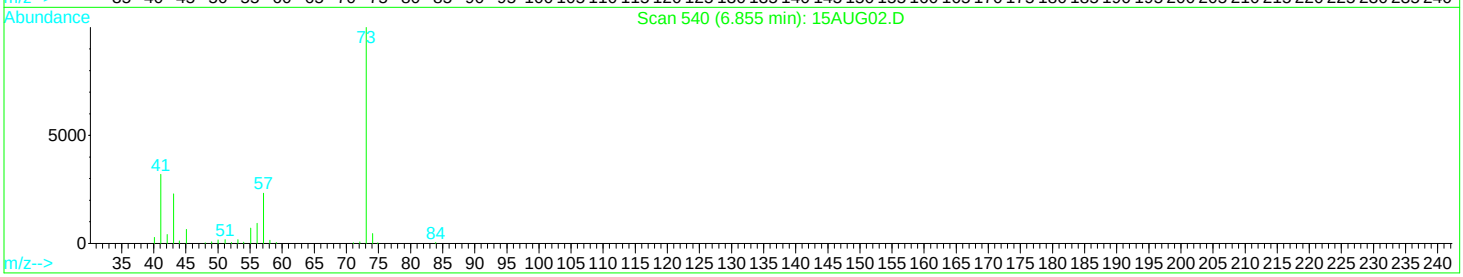
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY16.D Vial: 16
Acq On : 17 May 2017 12:18 pm Operator: MGC
Sample : 1713059-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:33 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Multiple Level Calibration







TIC: 17MAY16.D

(11) MTBE

4.49min 0.28ug/L

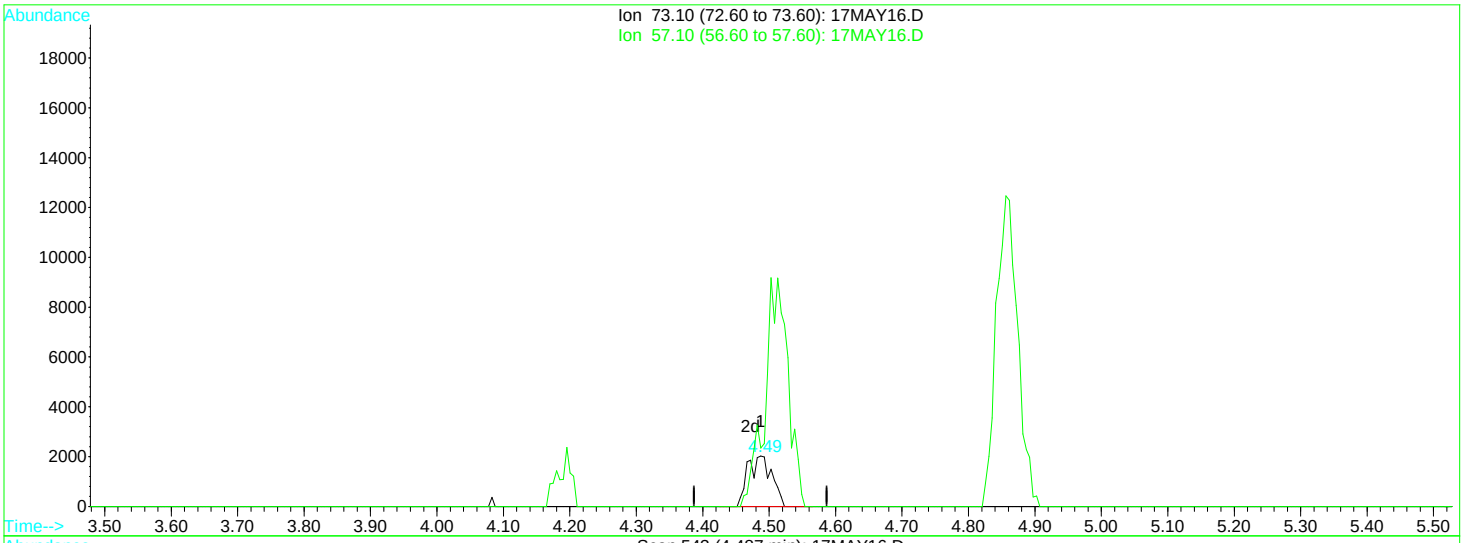
response 3308

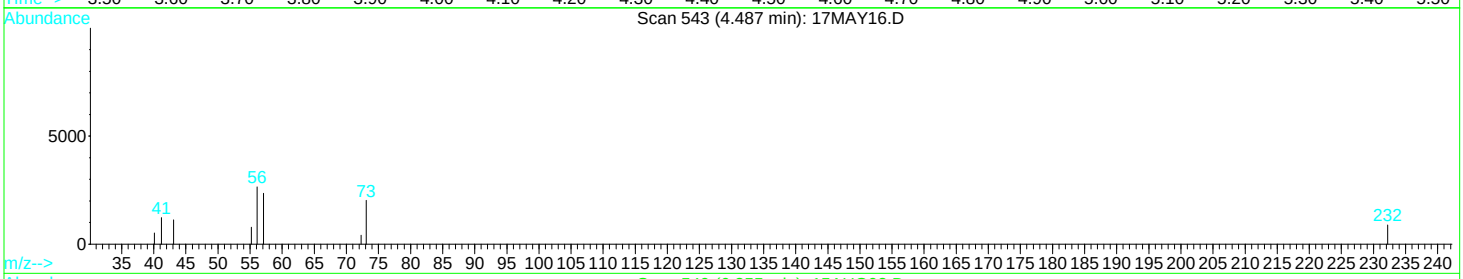
Ion	Exp%	Act%
73.10	100	100
57.10	17.10	675.67#
0.00	0.00	0.00
0.00	0.00	0.00

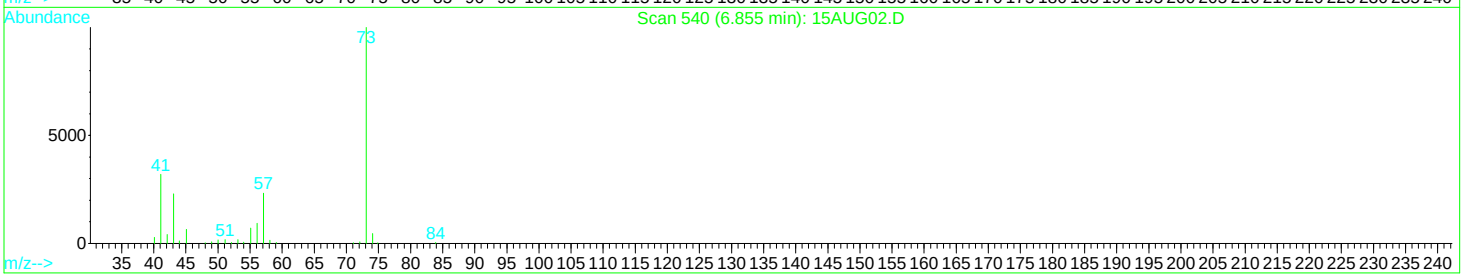
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY16.D Vial: 16
Acq On : 17 May 2017 12:18 pm Operator: MGC
Sample : 1713059-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 12:34 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Multiple Level Calibration







TIC: 17MAY16.D

(11) MTBE

4.49min 0.42ug/L m

response 5108

Ion	Exp%	Act%
73.10	100	100
57.10	17.10	437.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY29.D Vial: 29
Acq On : 17 May 2017 5:19 pm Operator: MGC
Sample : 1713059-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:37 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	178342	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	266236	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	68543	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	63996	10.91	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 109.10%			
31) Toluene d8 SMC#2	8.61	98	301723	10.17	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.70%			
49) Bromofluorobenzene SMC#3	10.34	95	85675	9.46	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.60%			

Target Compounds

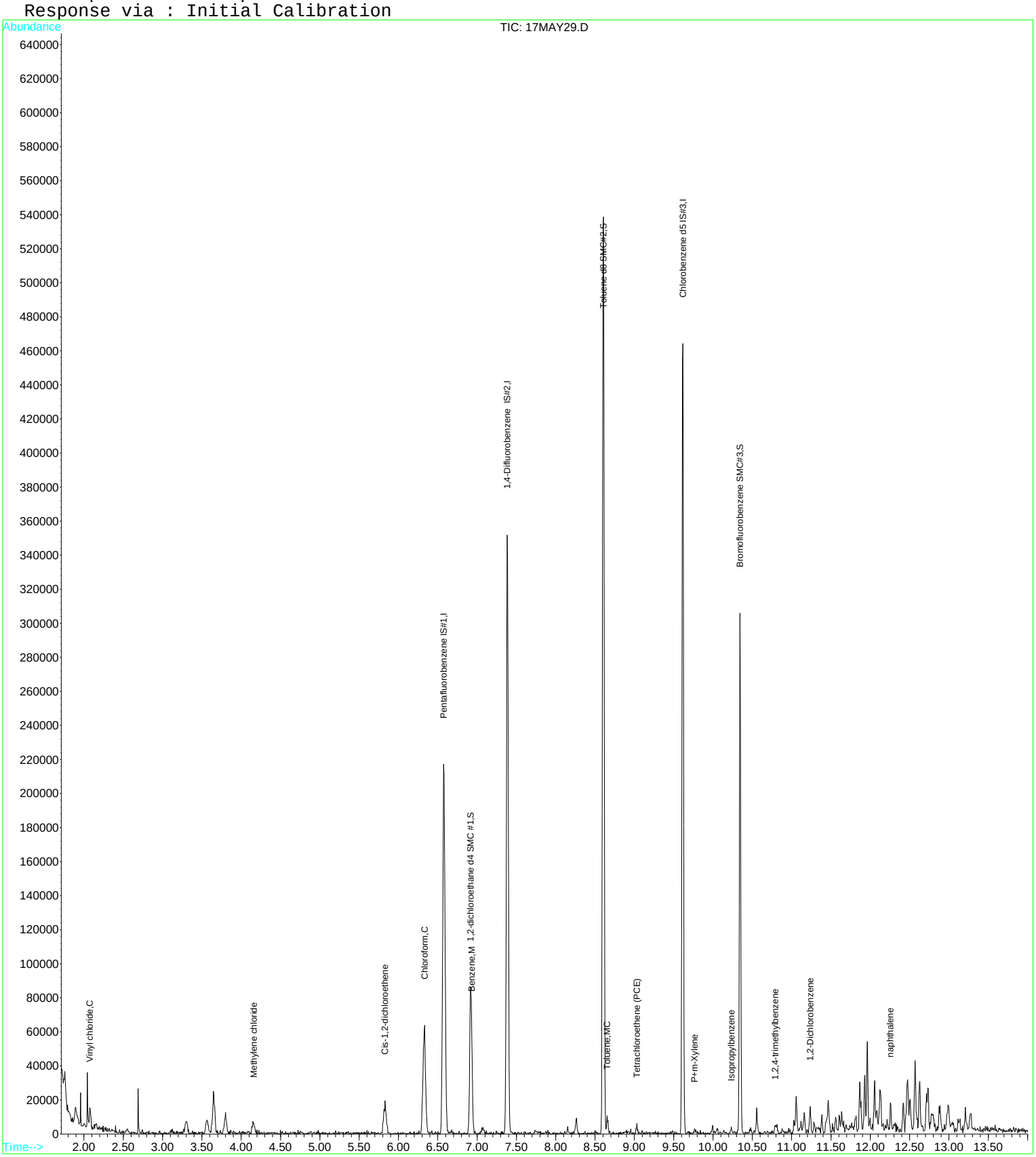
						Qvalue
4) Vinyl chloride	2.08	62	9883	0.85	ug/L	99
10) Methylene chloride	4.16	84	2942	0.43	ug/L	92
15) Cis-1,2-dichloroethene	5.83	96	8544	0.95	ug/L	92
17) Chloroform	6.33	83	61039	4.27	ug/L	91
23) Benzene	6.94	78	4528	0.13	ug/L #	1
32) Toluene	8.65	92	3239	0.16	ug/L	94
35) Tetrachloroethene (PCE)	9.03	166	1072	0.12	ug/L #	80
43) P+m-Xylene	9.76	106	865	0.06	ug/L #	90
47) Isopropylbenzene	10.23	105	2017	0.06	ug/L #	81
57) 1,2,4-trimethylbenzene	10.79	105	2527	0.10	ug/L	99
63) 1,2-Dichlorobenzene	11.24	146	2314	0.23	ug/L #	85
68) naphthalene	12.25	128	8813	0.97	ug/L	100

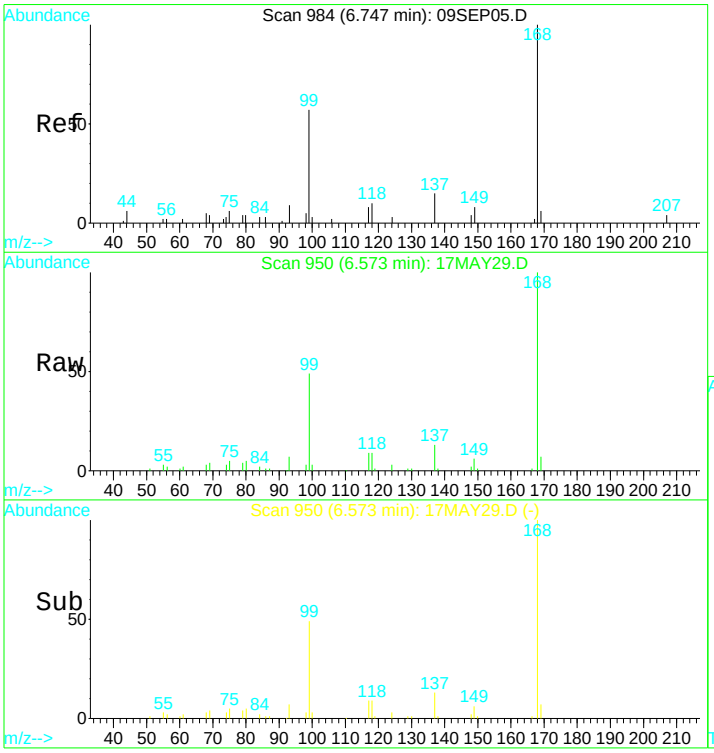
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY29.D Vial: 29
Acq On : 17 May 2017 5:19 pm Operator: MGC
Sample : 1713059-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:37 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

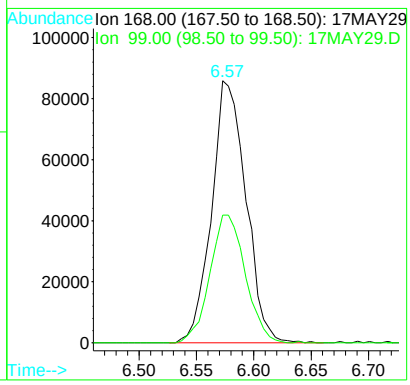


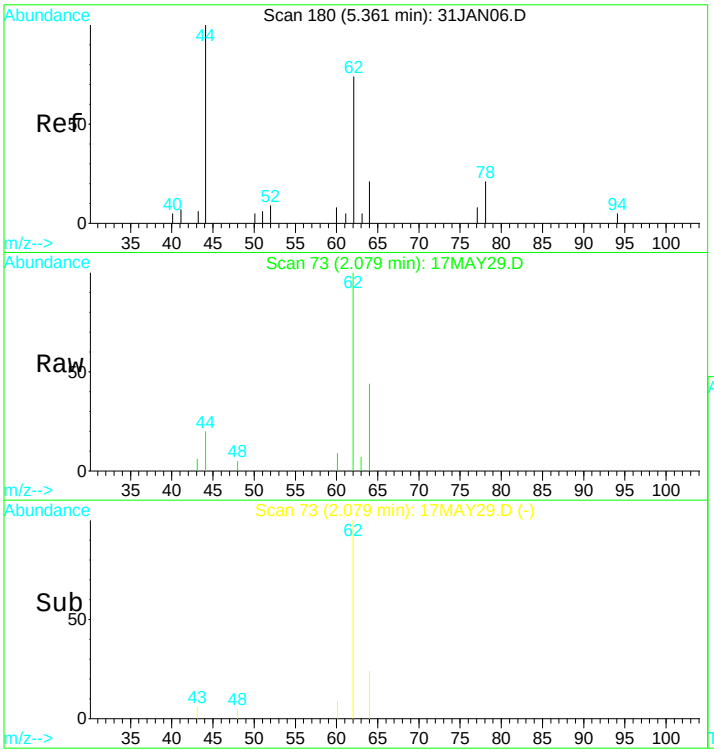


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:168 Resp: 178342

Ion	Ratio	Lower	Upper
168	100		
99	50.2	37.7	69.9

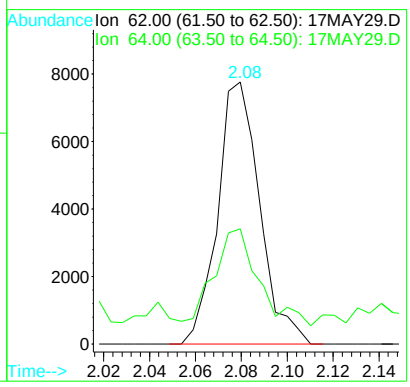


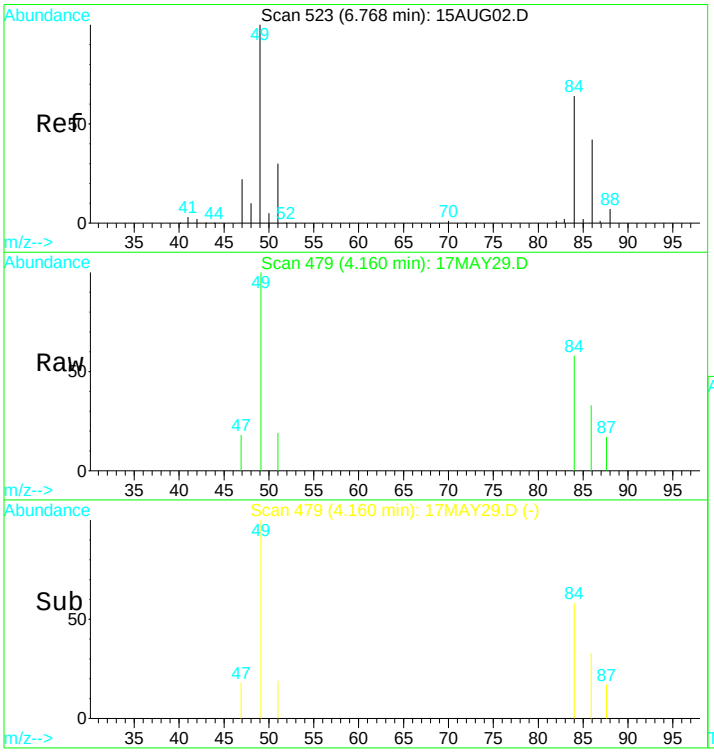


#4
Vinyl chloride
Concen: 0.85 ug/L
RT: 2.08 min Scan# 73
Delta R.T. 0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 62 Resp: 9883

Ion	Ratio	Lower	Upper
62	100		
64	57.8	40.7	75.7

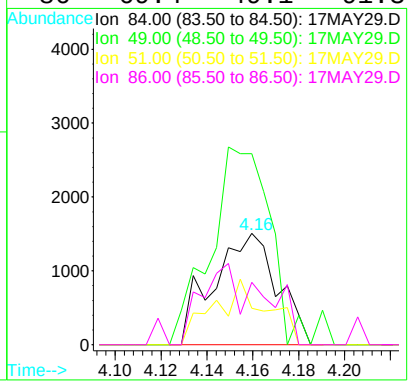


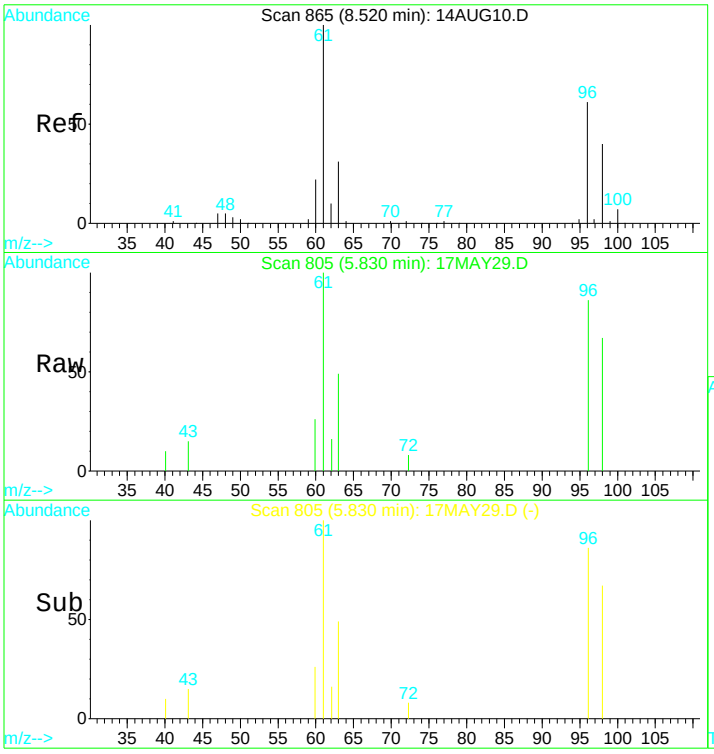


#10
Methylene chloride
Concen: 0.43 ug/L
RT: 4.16 min Scan# 479
Delta R.T. 0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 84 Resp: 2942

Ion	Ratio	Lower	Upper
84	100		
49	163.1	123.3	228.9
51	48.6	40.7	75.5
86	69.4	49.1	91.3

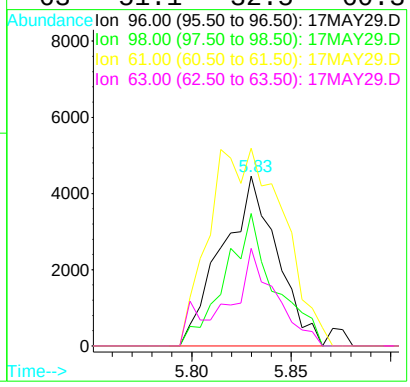


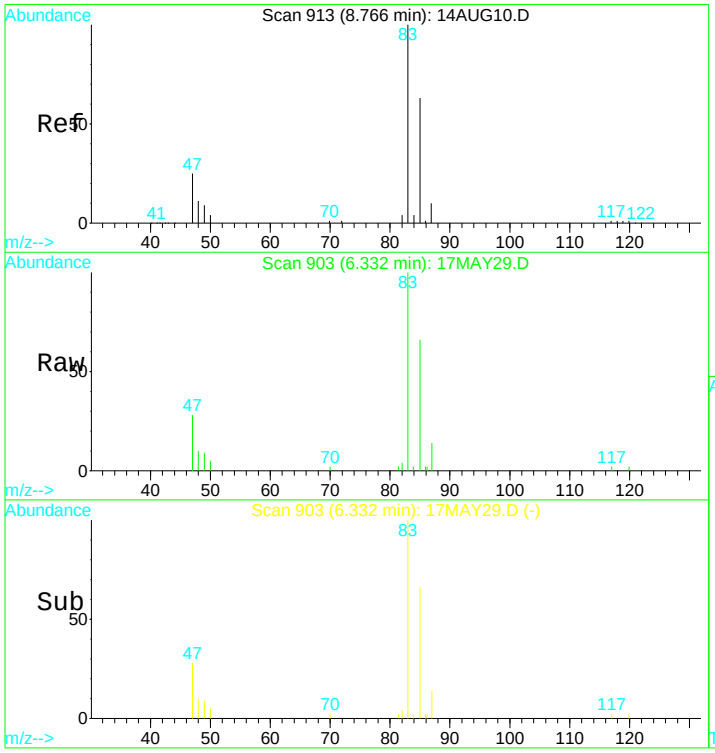


#15
Cis-1,2-dichloroethene
Concen: 0.95 ug/L
RT: 5.83 min Scan# 805
Delta R.T. 0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 96 Resp: 8544

Ion	Ratio	Lower	Upper
96	100		
98	70.2	44.2	82.0
61	157.4	117.9	218.9
63	51.1	32.5	60.3

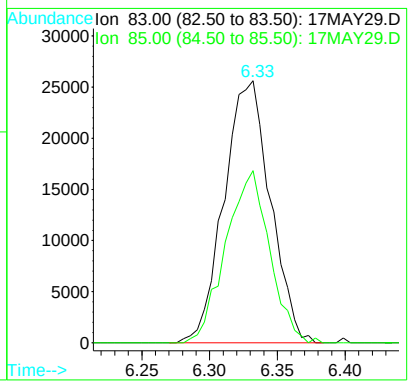


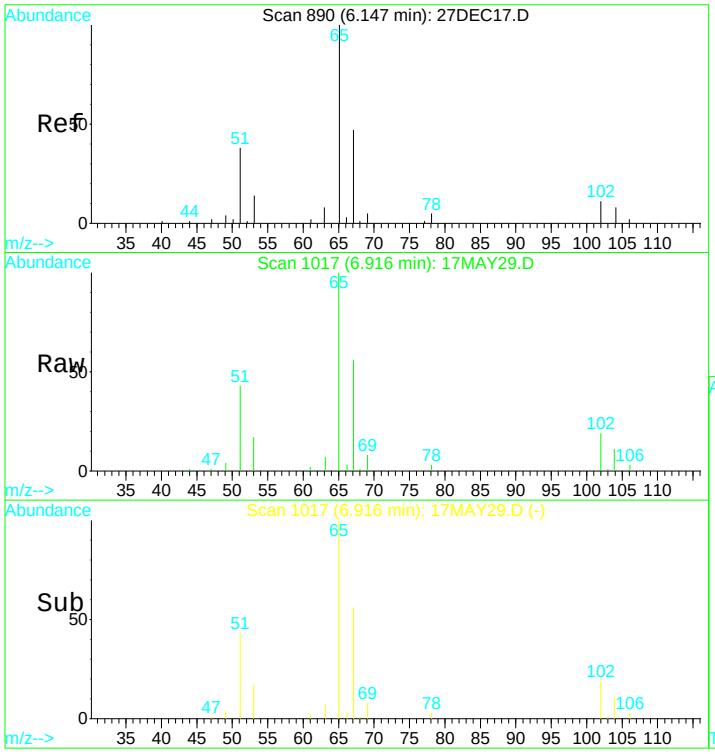


#17
Chloroform
Concen: 4.27 ug/L
RT: 6.33 min Scan# 903
Delta R.T. 0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 83 Resp: 61039

Ion	Ratio	Lower	Upper
83	100		
85	61.8	48.4	89.8

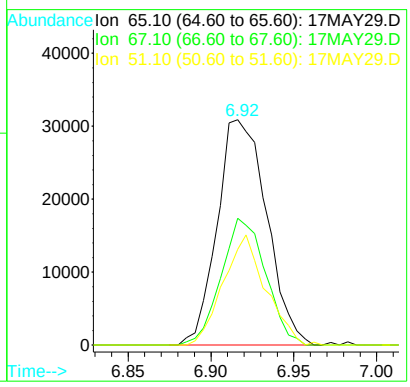


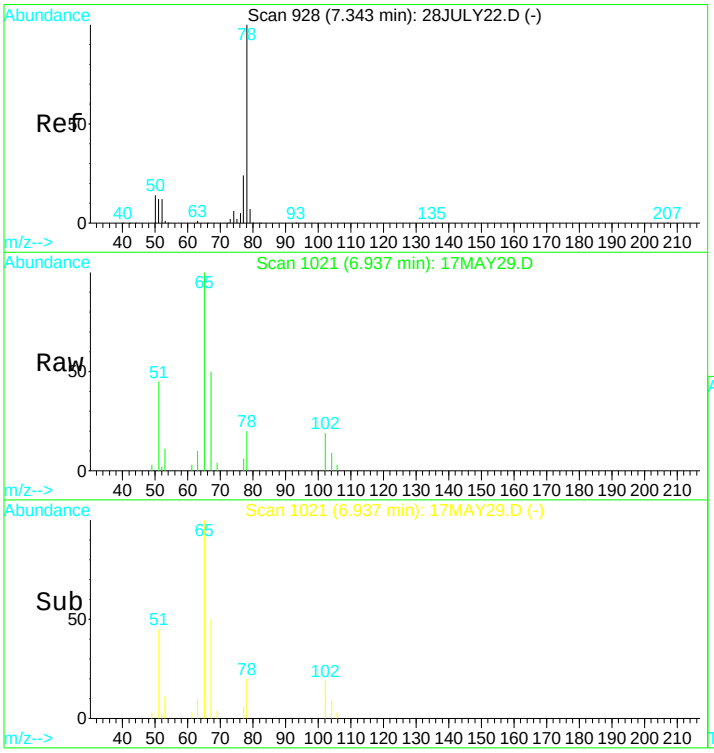


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 65 Resp: 63996

Ion	Ratio	Lower	Upper
65	100		
67	50.6	34.4	63.8
51	42.1	33.2	61.7

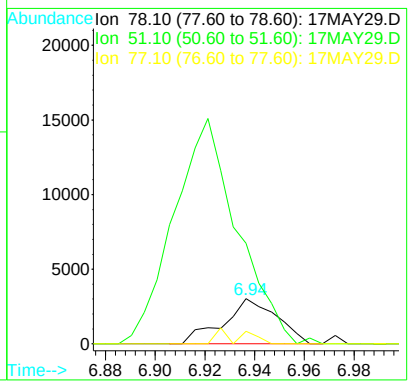


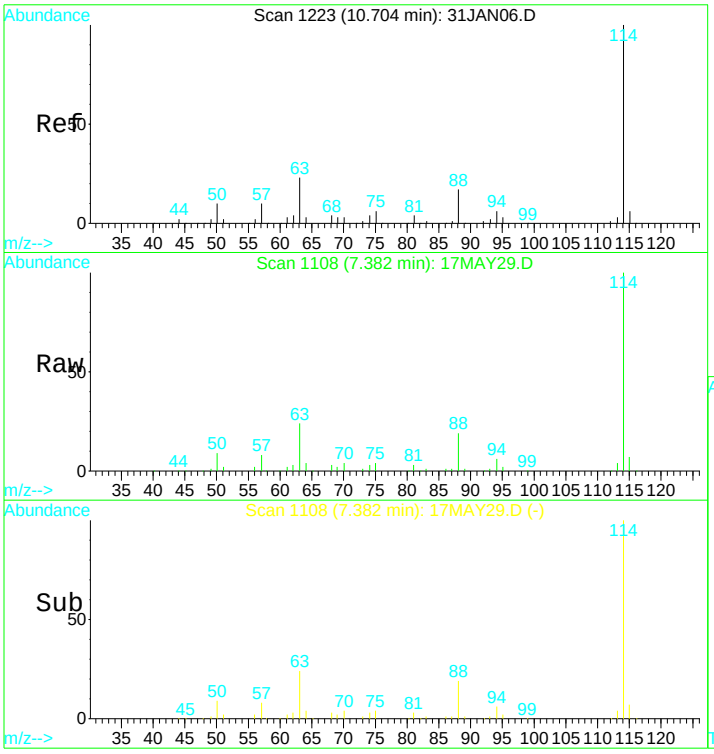


#23
Benzene
Concen: 0.13 ug/L
RT: 6.94 min Scan# 1021
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 78 Resp: 4528

Ion	Ratio	Lower	Upper
78	100		
51	595.5	121.4	225.4#
77	7.3	16.0	29.6#

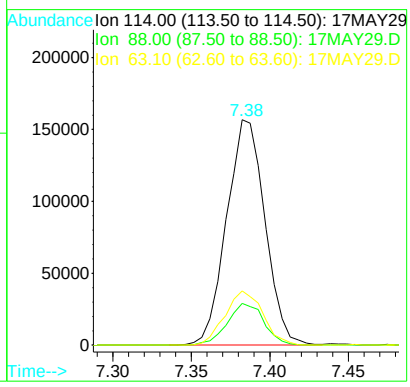


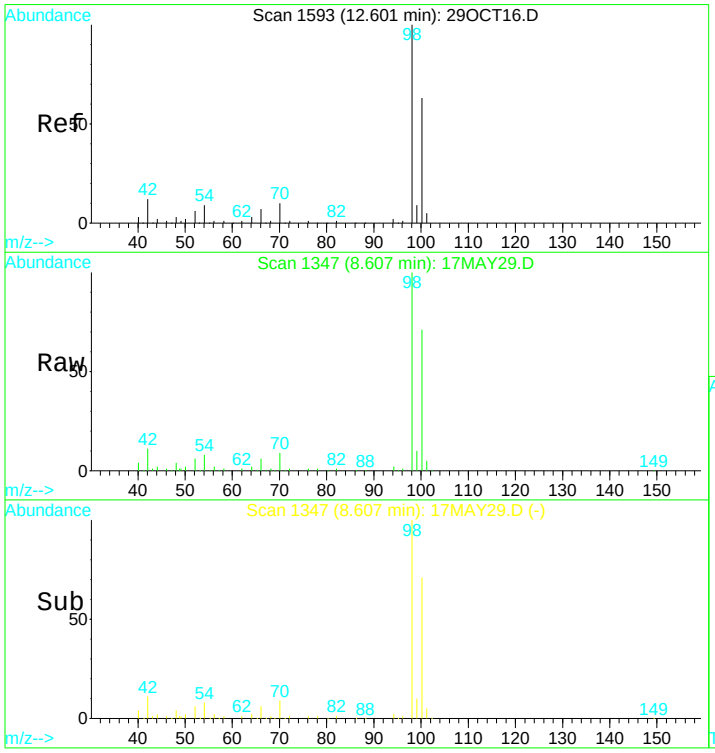


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:114 Resp: 266236

Ion	Ratio	Lower	Upper
114	100		
88	17.7	12.6	23.4
63	23.8	15.7	29.1

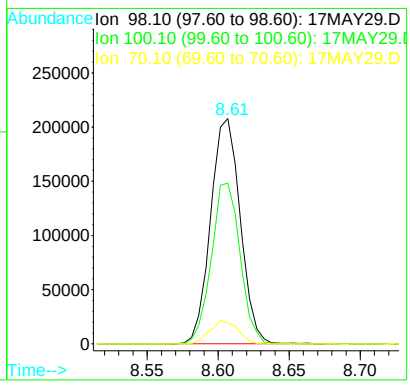


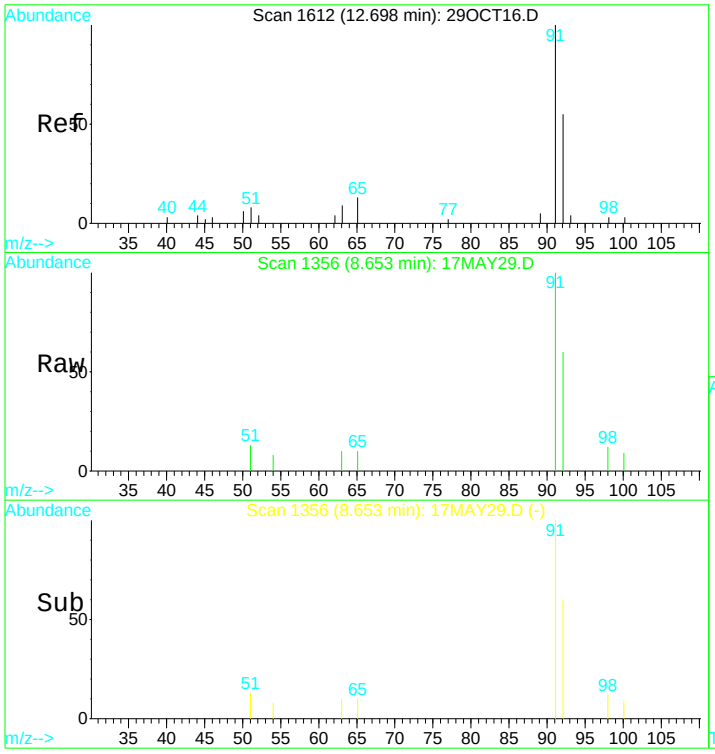


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.61 min Scan# 1347
Delta R.T. 0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 98 Resp: 301723

Ion	Ratio	Lower	Upper
98	100		
100	69.0	48.7	90.5
70	9.9	7.4	13.8

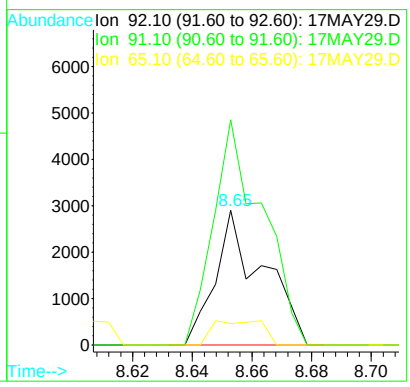


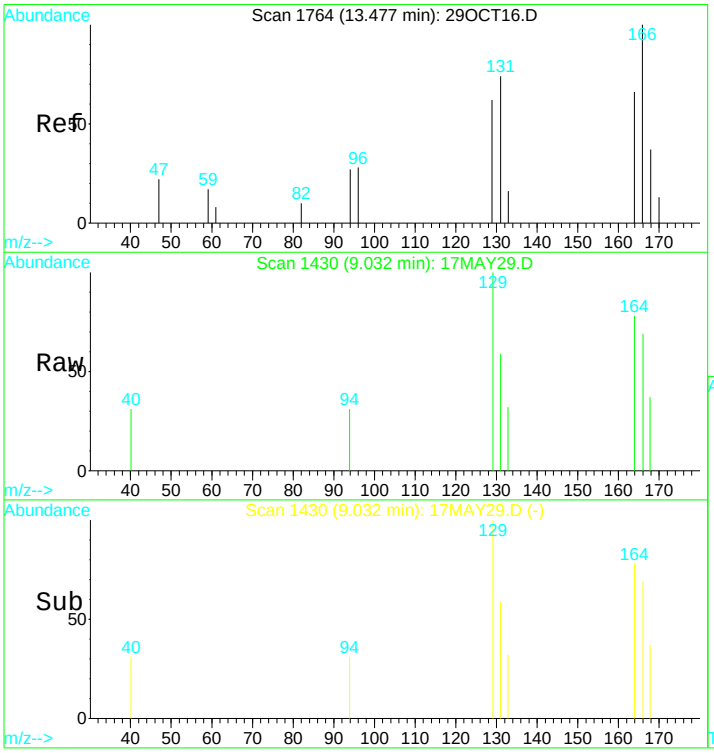


#32
Toluene
Concen: 0.16 ug/L
RT: 8.65 min Scan# 1356
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 92 Resp: 3239

Ion	Ratio	Lower	Upper
92	100		
91	171.7	125.4	233.0
65	19.1	16.6	30.8

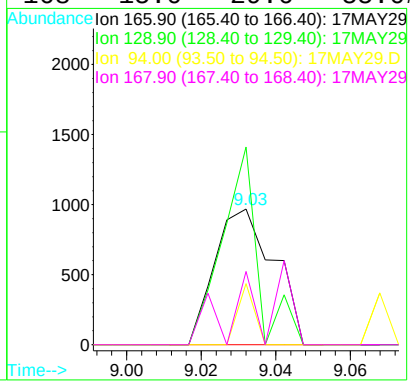


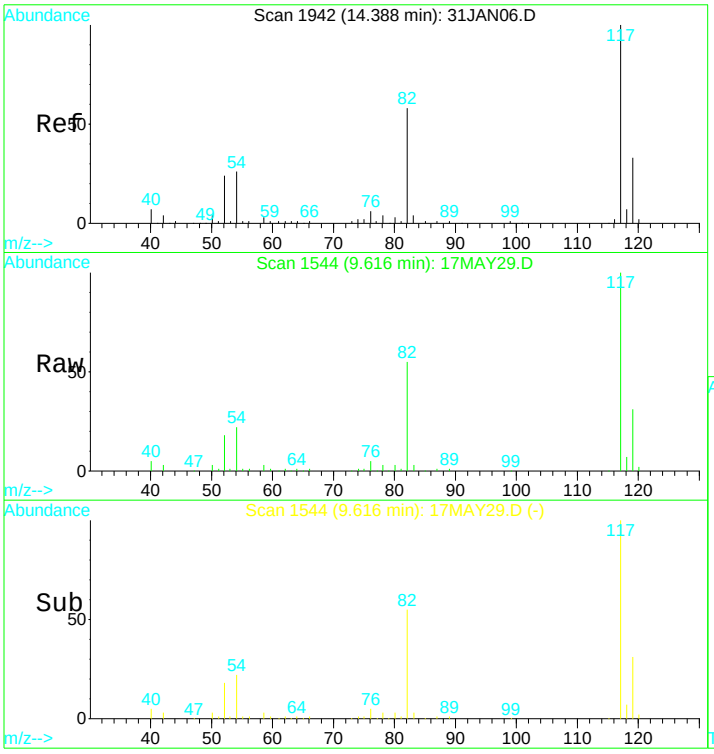


#35
Tetrachloroethene (PCE)
Concen: 0.12 ug/L
RT: 9.03 min Scan# 1430
Delta R.T. 0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:166 Resp: 1072

Ion	Ratio	Lower	Upper
166	100		
129	86.8	59.5	110.5
94	12.5	24.3	45.1#
168	15.0	29.6	55.0#

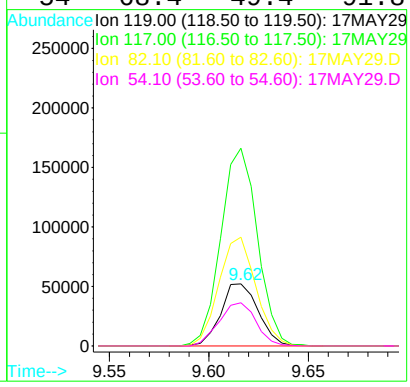


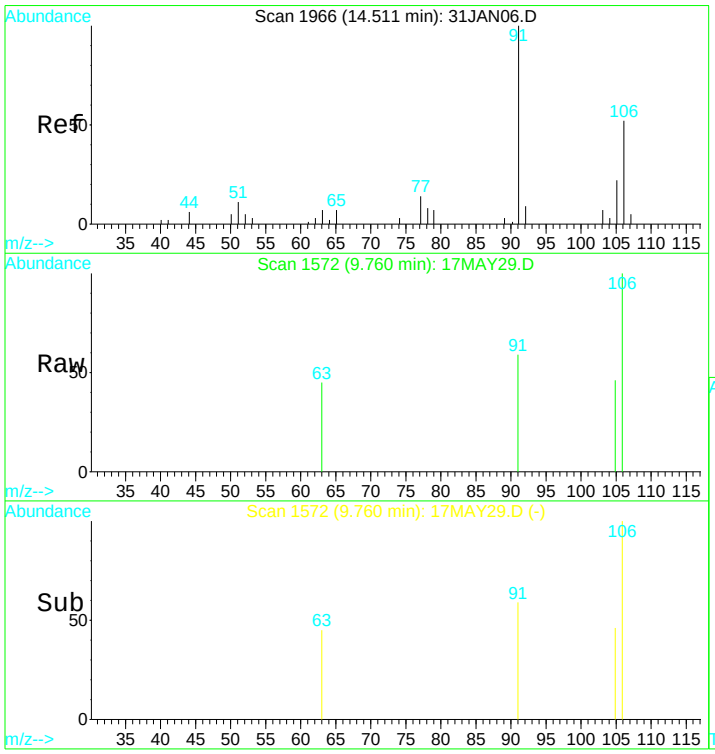


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:119 Resp: 68543

Ion	Ratio	Lower	Upper
119	100		
117	309.7	213.6	396.6
82	172.1	119.2	221.4
54	68.4	49.4	91.8

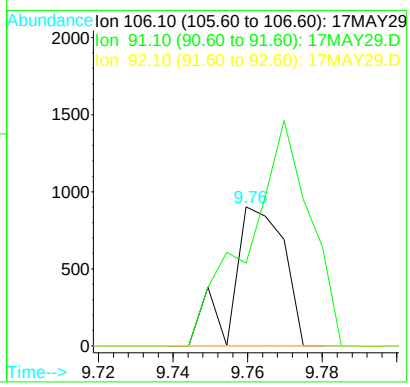


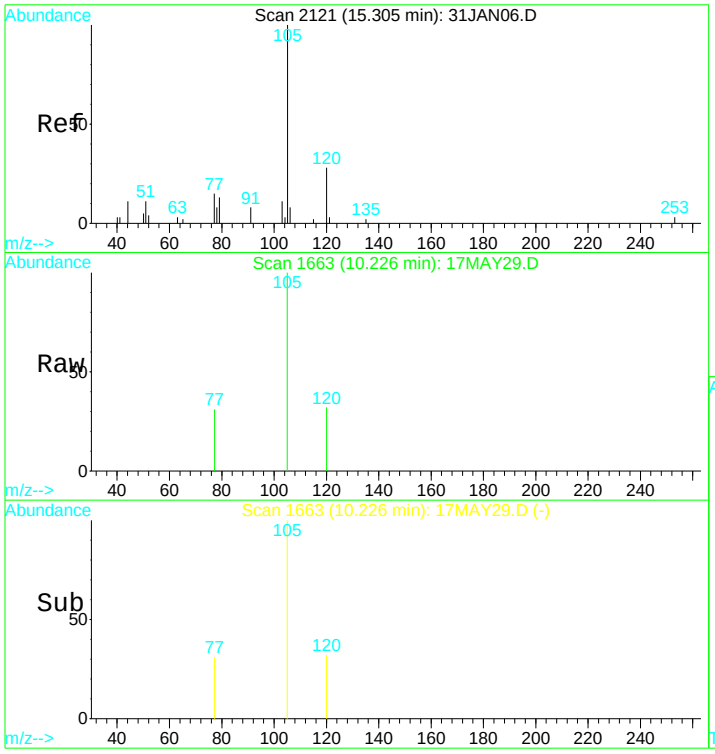


#43
P+m-Xylene
Concen: 0.06 ug/L
RT: 9.76 min Scan# 1572
Delta R.T. -0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:106 Resp: 865

Ion	Ratio	Lower	Upper
106	100		
91	197.1	129.4	240.4
92	0.0	7.8	14.6#

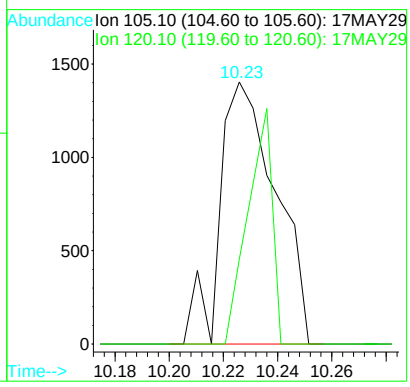


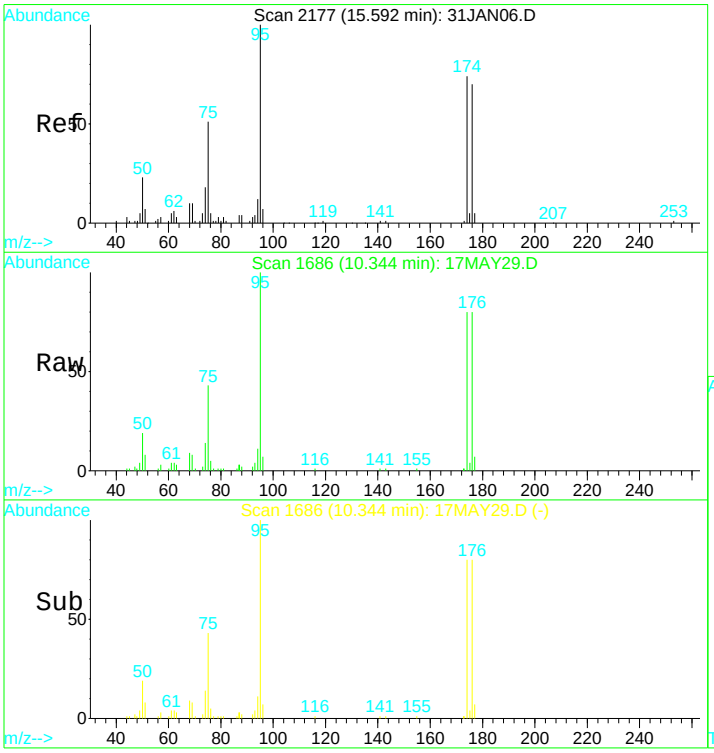


#47
Isopropylbenzene
Concen: 0.06 ug/L
RT: 10.23 min Scan# 1663
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:105 Resp: 2017

Ion	Ratio	Lower	Upper
105	100		
120	39.2	20.3	37.7#

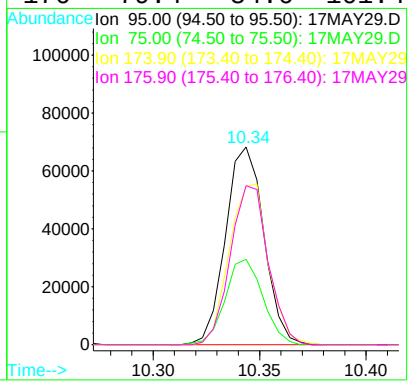


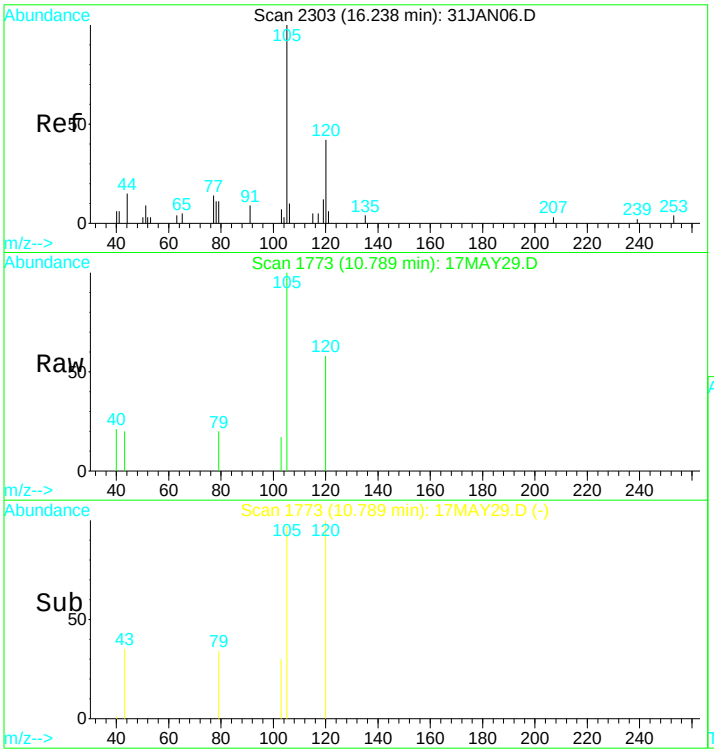


#49
Bromofluorobenzene SMC#3
Concen: Below ug/L
RT: 10.34 min Scan# 1686
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 95 Resp: 85675

Ion	Ratio	Lower	Upper
95	100		
75	42.6	29.0	53.8
174	82.4	55.8	103.6
176	79.4	54.6	101.4

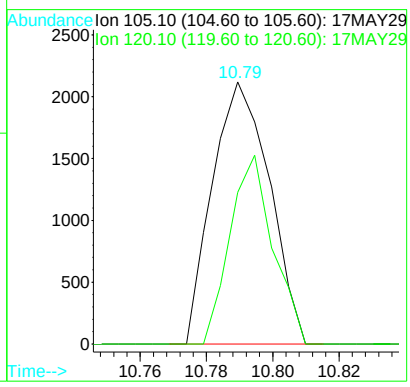


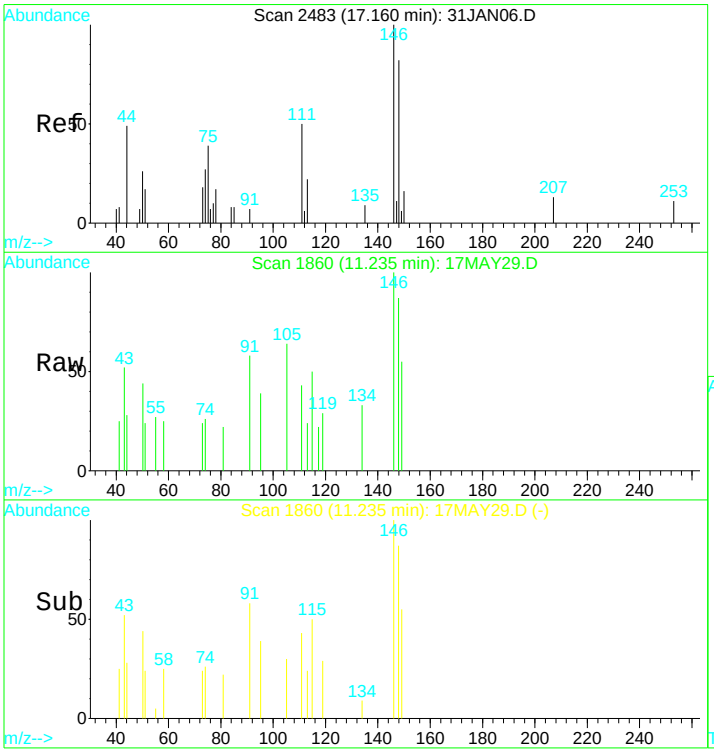


#57
1,2,4-trimethylbenzene
Concen: 0.10 ug/L
RT: 10.79 min Scan# 1773
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:105 Resp: 2527

Ion	Ratio	Lower	Upper
105	100		
120	54.3	37.5	69.6

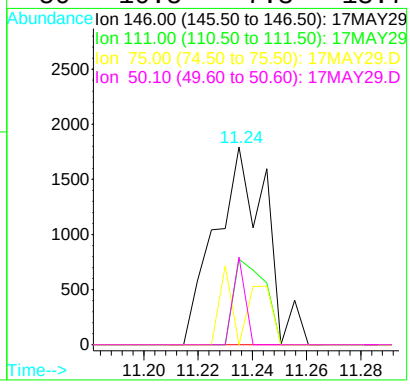


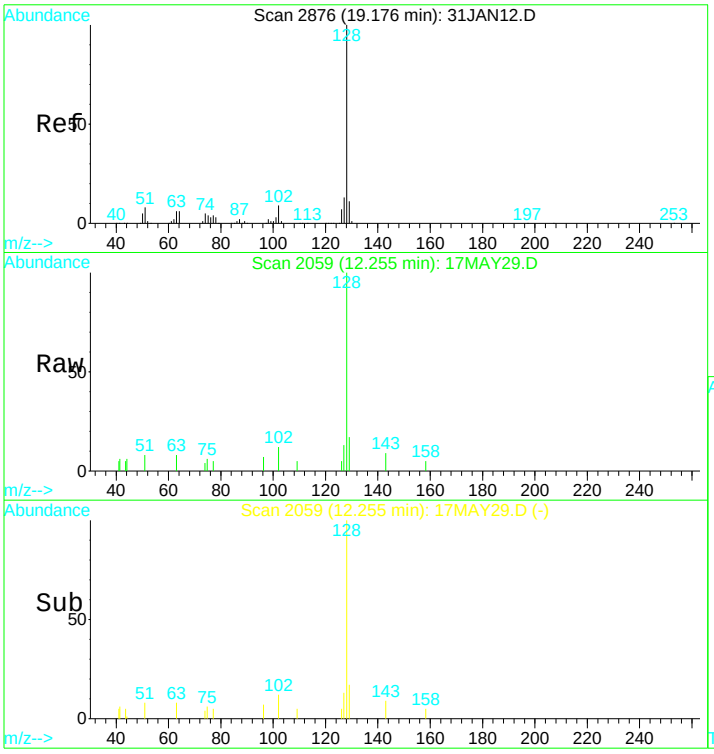


#63
1,2-Dichlorobenzene
Concen: 0.23 ug/L
RT: 11.24 min Scan# 1860
Delta R.T. -0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:146 Resp: 2314

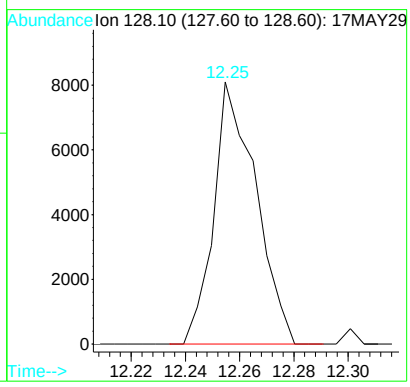
Ion	Ratio	Lower	Upper
146	100		
111	26.7	20.5	38.1
75	9.6	17.8	33.1#
50	10.5	7.3	13.7





#68
naphthalene
Concen: 0.97 ug/L
RT: 12.25 min Scan# 2059
Delta R.T. -0.07 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:128 Resp: 8813



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY29.D Vial: 29
Acq On : 17 May 2017 5:19 pm Operator: MGC
Sample : 1713059-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:42 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	178342	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	266236	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	68543	10.00	ug/L	0.00

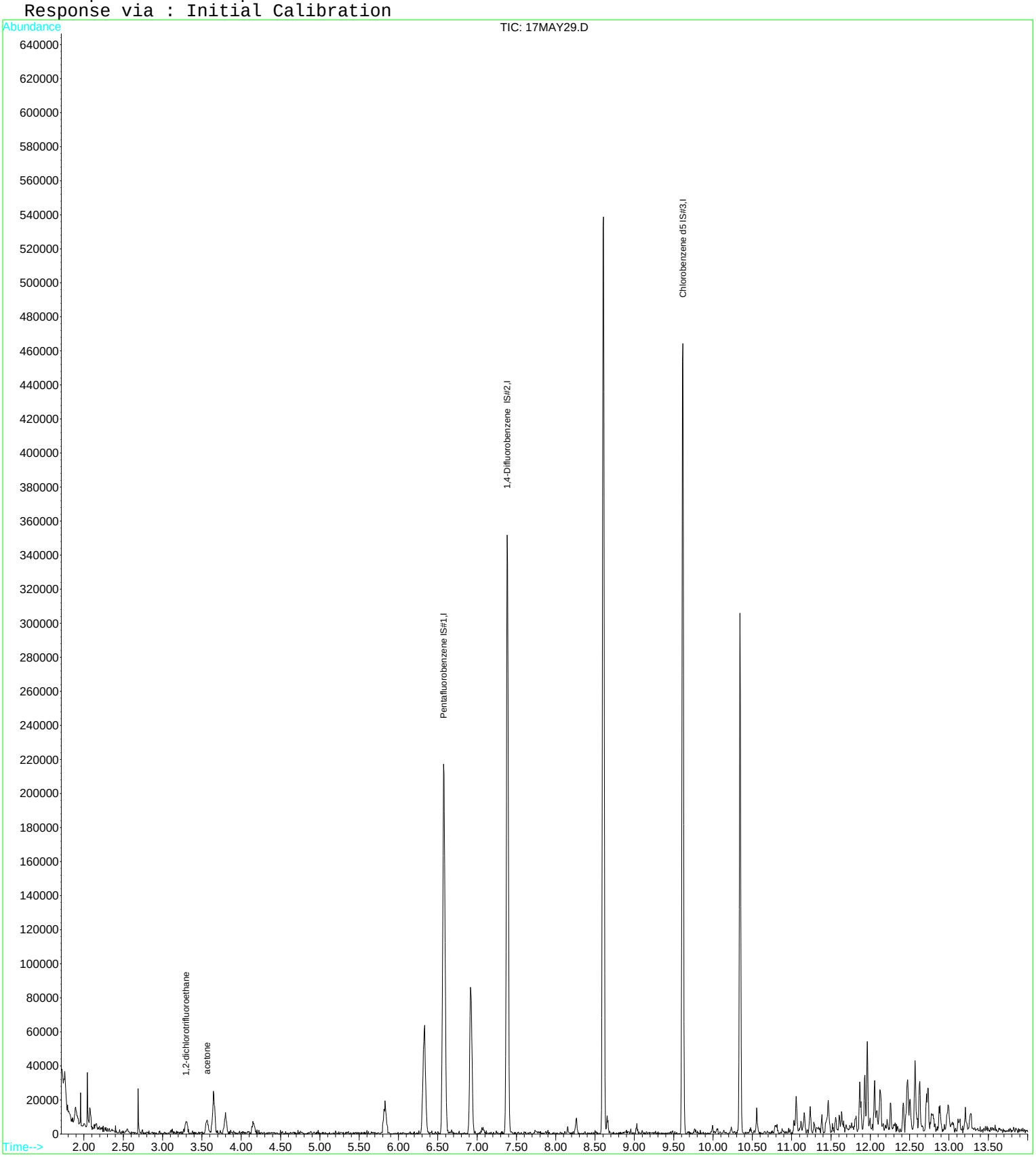
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	5352	0.52	ug/L #	85
8) acetone	3.56	43	11976	18.79	ug/L	99

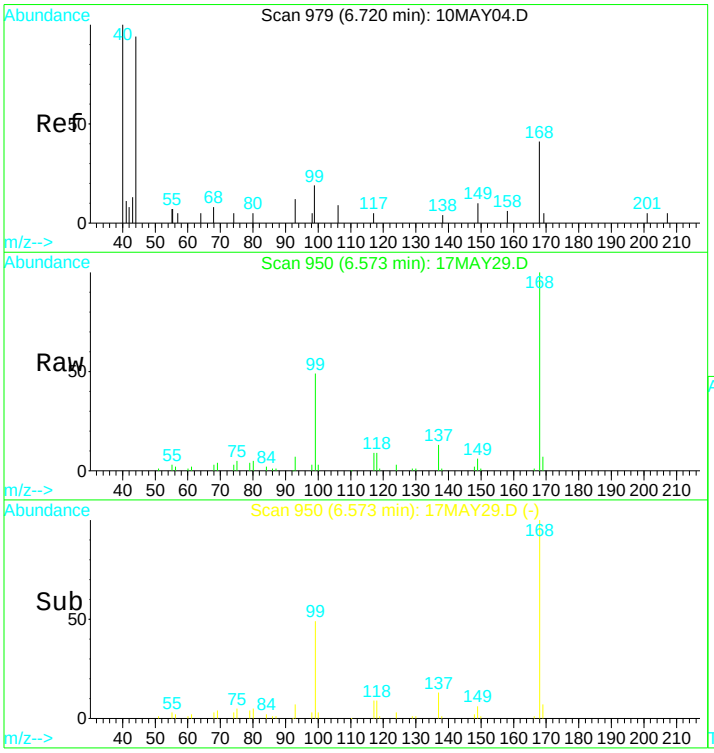
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY29.D Vial: 29
Acq On : 17 May 2017 5:19 pm Operator: MGC
Sample : 1713059-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:42 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration

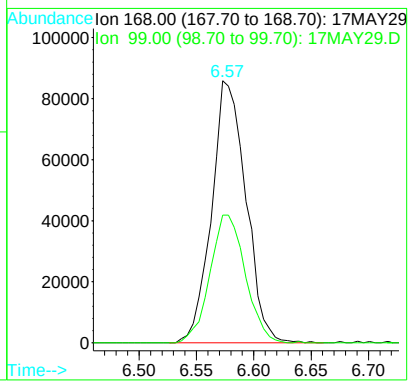


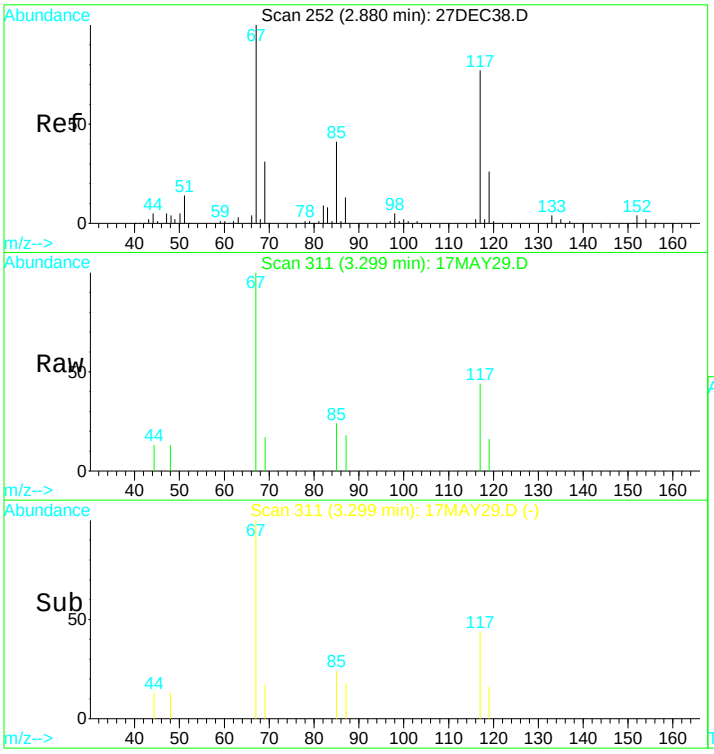


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:168 Resp: 178342

Ion	Ratio	Lower	Upper
168	100		
99	50.2	34.8	64.6

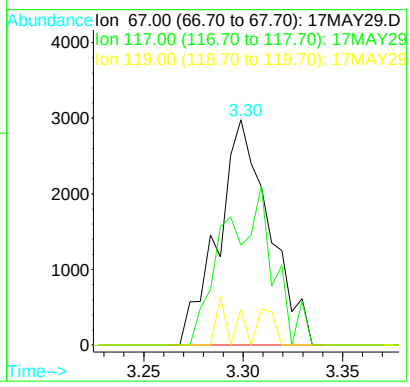


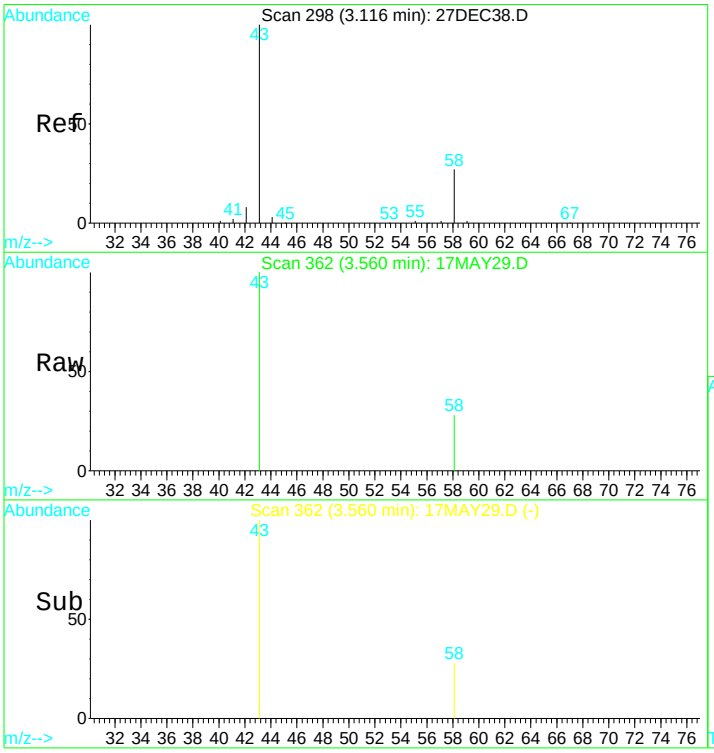


#4
1,2-dichlorotrifluoroethane
Concen: 0.52 ug/L
RT: 3.30 min Scan# 311
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 67 Resp: 5352

Ion	Ratio	Lower	Upper
67	100		
117	67.8	51.7	96.1
119	5.3	17.3	32.1#

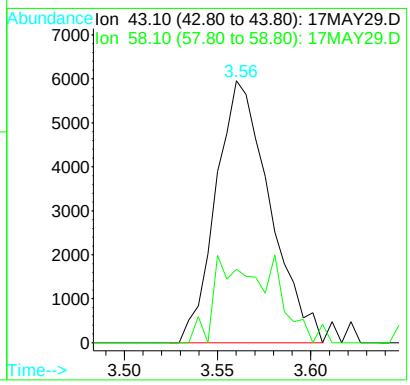


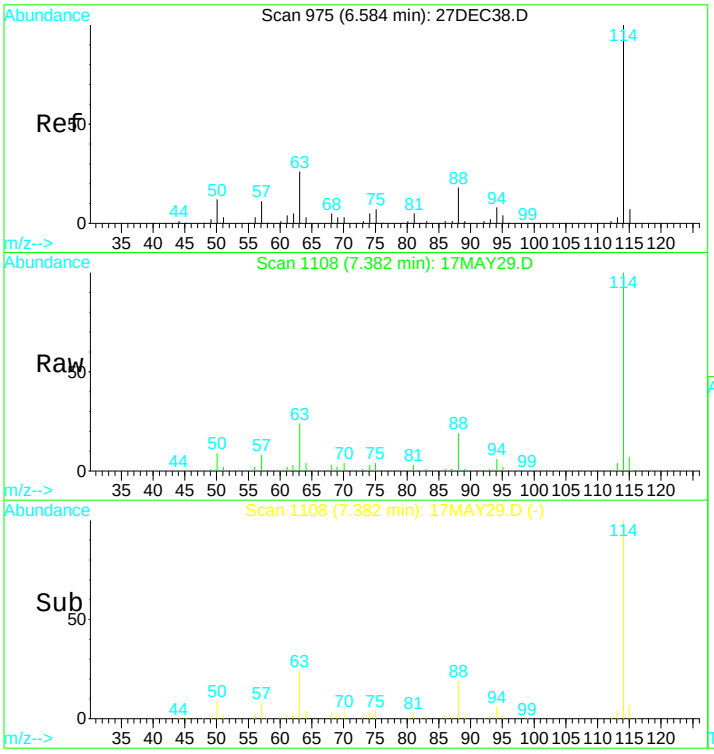


#8
acetone
Concen: 18.79 ug/L
RT: 3.56 min Scan# 362
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion: 43 Resp: 11976

Ion	Ratio	Lower	Upper
43	100		
58	35.8	25.5	47.3

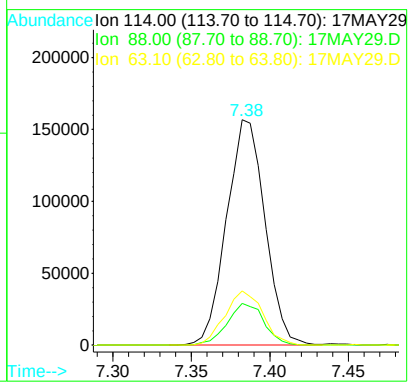


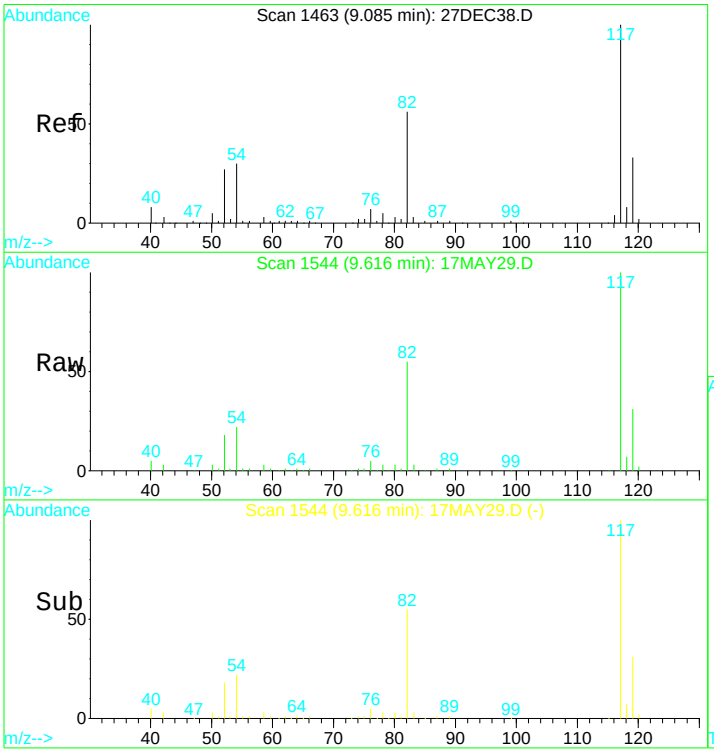


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. -0.01 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:114 Resp: 266236

Ion	Ratio	Lower	Upper
114	100		
88	17.7	12.0	22.2
63	23.8	15.8	29.3

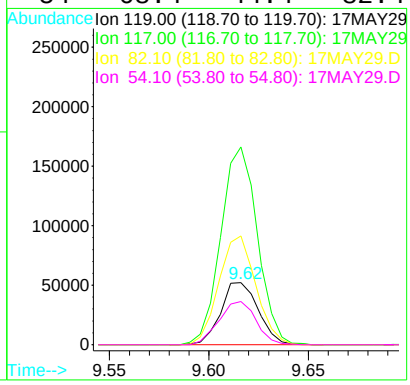




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. -0.00 min
Lab File: 17MAY29.D
Acq: 17 May 2017 5:19 pm

Tgt Ion:119 Resp: 68543

Ion	Ratio	Lower	Upper
119	100		
117	309.7	207.6	385.6
82	172.1	110.0	204.2
54	68.4	44.4	82.4



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY30.D Vial: 30
Acq On : 17 May 2017 5:42 pm Operator: MGC
Sample : 1713059-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:38 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177702	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	273809	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	69719	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	58904	10.08	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.80%			
31) Toluene d8 SMC#2	8.60	98	309678	10.15	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.50%			
49) Bromofluorobenzene SMC#3	10.34	95	86775	9.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.20%			

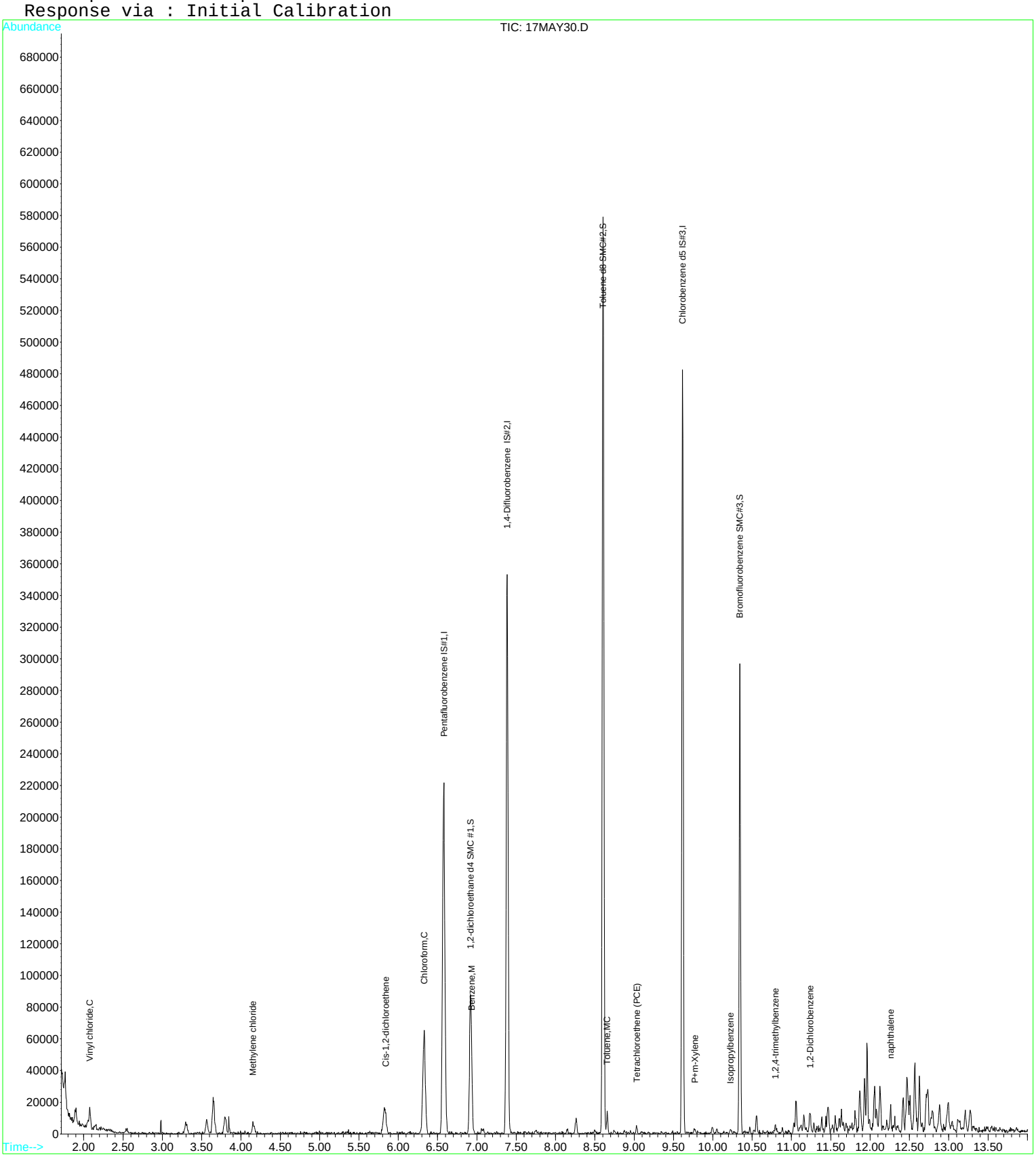
Target Compounds						Qvalue
4) Vinyl chloride	2.08	62	9882	0.85	ug/L	93
10) Methylene chloride	4.15	84	2960	0.44	ug/L	89
15) Cis-1,2-dichloroethene	5.84	96	9234	1.03	ug/L	88
17) Chloroform	6.33	83	61472	4.32	ug/L	95
23) Benzene	6.94	78	5575	0.17	ug/L #	1
32) Toluene	8.66	92	4690	0.23	ug/L #	78
35) Tetrachloroethene (PCE)	9.04	166	1347	0.15	ug/L #	56
43) P+m-Xylene	9.77	106	1277	0.09	ug/L	77
47) Isopropylbenzene	10.22	105	2394	0.07	ug/L #	80
57) 1,2,4-trimethylbenzene	10.80	105	2358	0.10	ug/L #	77
63) 1,2-Dichlorobenzene	11.24	146	2310	0.22	ug/L #	84
68) naphthalene	12.26	128	9612	1.04	ug/L	100

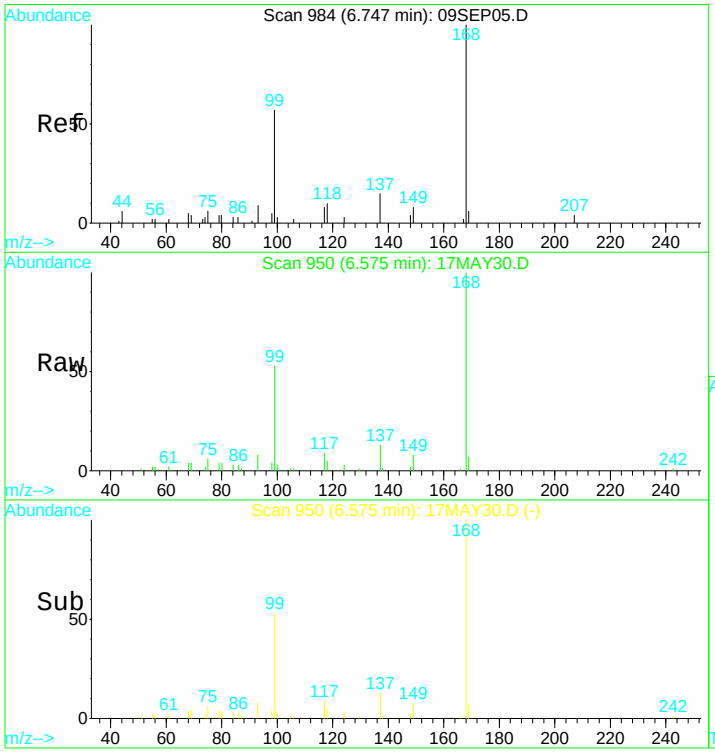
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY30.D Vial: 30
Acq On : 17 May 2017 5:42 pm Operator: MGC
Sample : 1713059-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:38 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

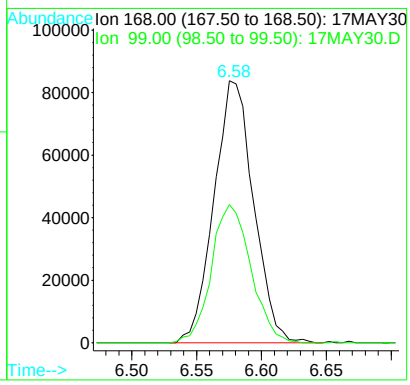


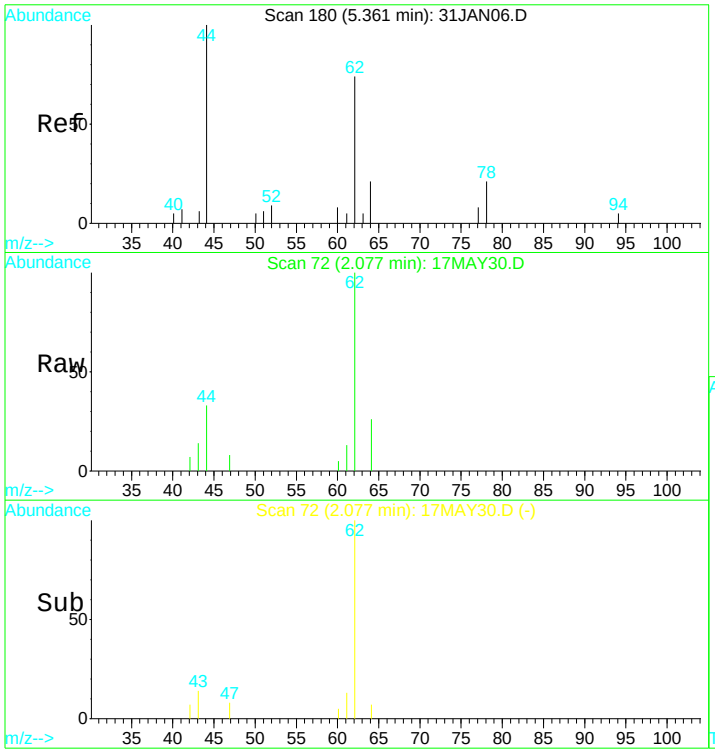


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 950
Delta R.T. -0.01 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:168 Resp: 177702

Ion	Ratio	Lower	Upper
168	100		
99	52.5	37.7	69.9

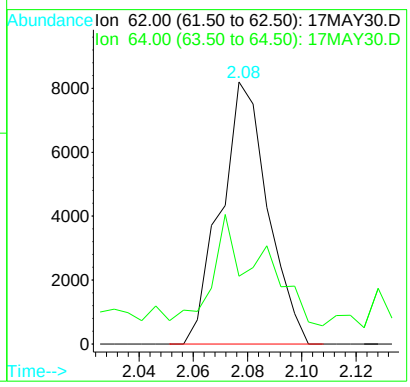


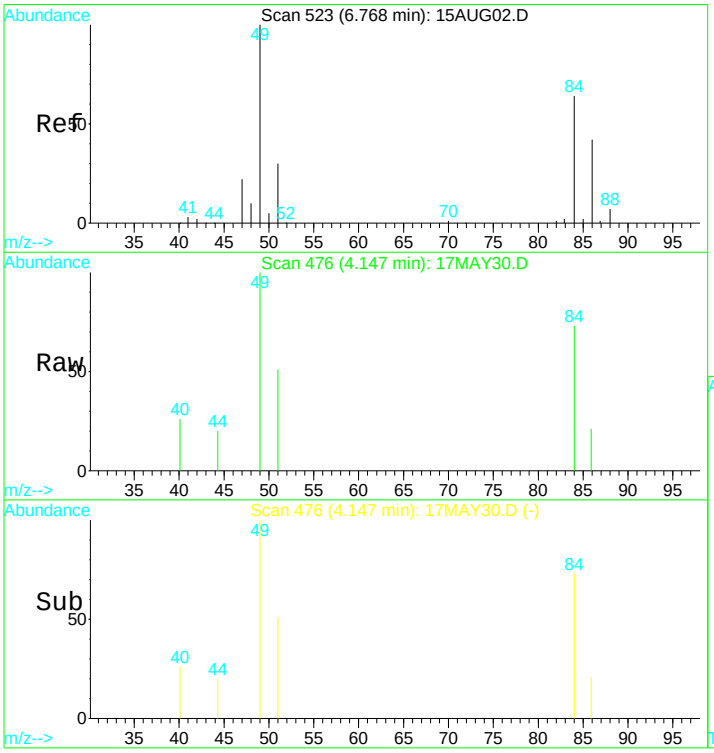


#4
Vinyl chloride
Concen: 0.85 ug/L
RT: 2.08 min Scan# 72
Delta R.T. 0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 62 Resp: 9882

Ion	Ratio	Lower	Upper
62	100		
64	63.2	40.7	75.7

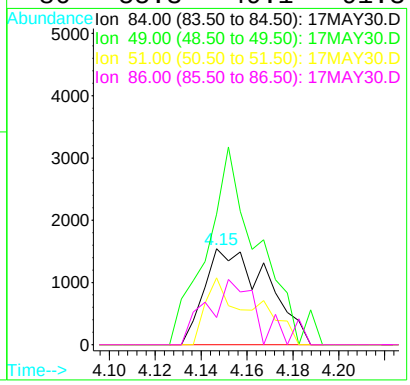


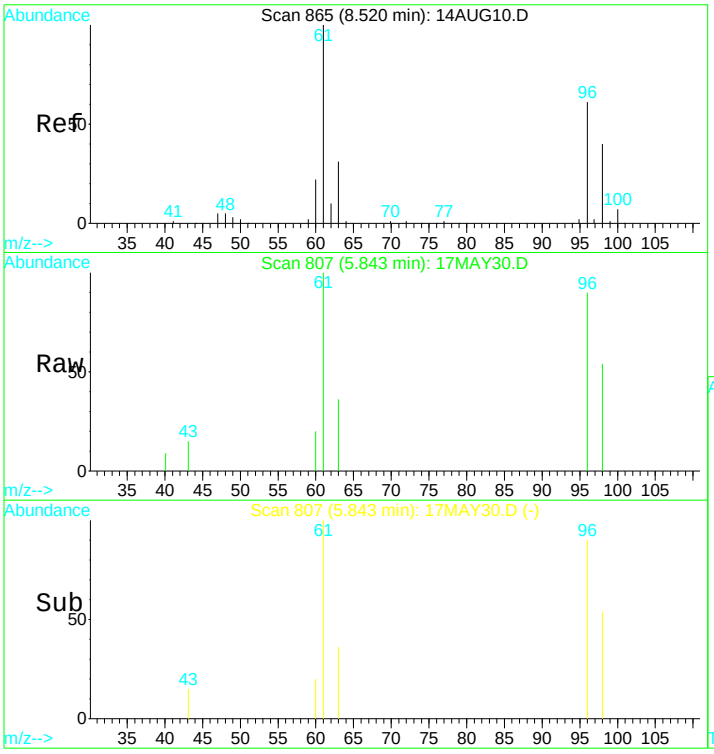


#10
Methylene chloride
Concen: 0.44 ug/L
RT: 4.15 min Scan# 476
Delta R.T. -0.01 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 84 Resp: 2960

Ion	Ratio	Lower	Upper
84	100		
49	164.0	123.3	228.9
51	51.7	40.7	75.5
86	55.3	49.1	91.3

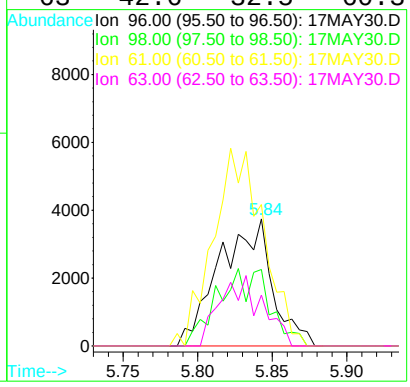


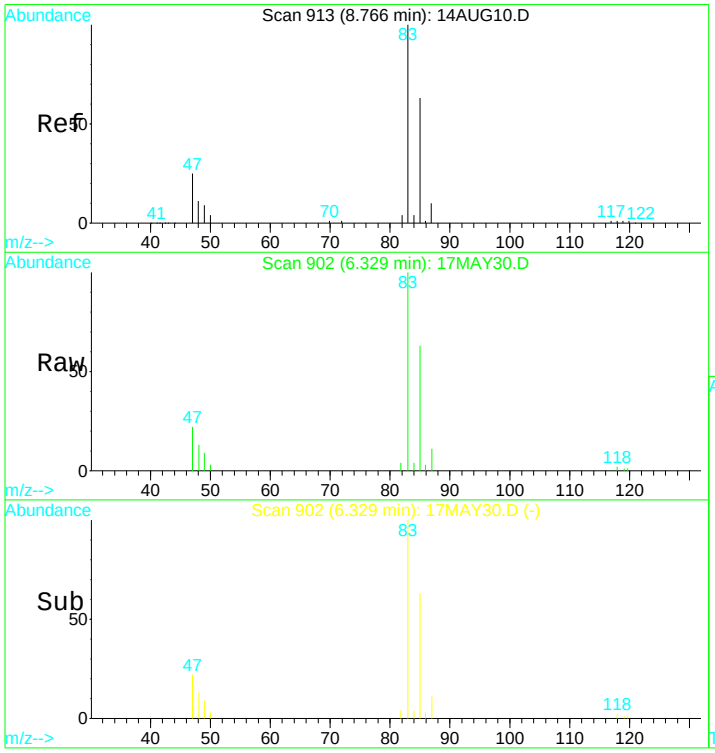


#15
Cis-1,2-dichloroethene
Concen: 1.03 ug/L
RT: 5.84 min Scan# 807
Delta R.T. 0.01 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 96 Resp: 9234

Ion	Ratio	Lower	Upper
96	100		
98	58.8	44.2	82.0
61	147.1	117.9	218.9
63	42.6	32.5	60.3

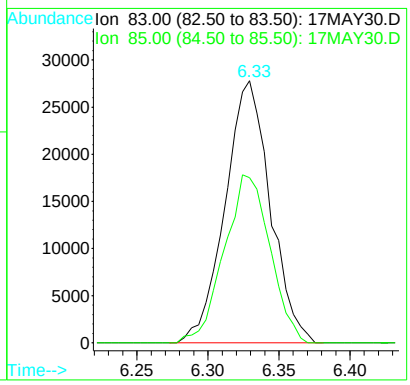


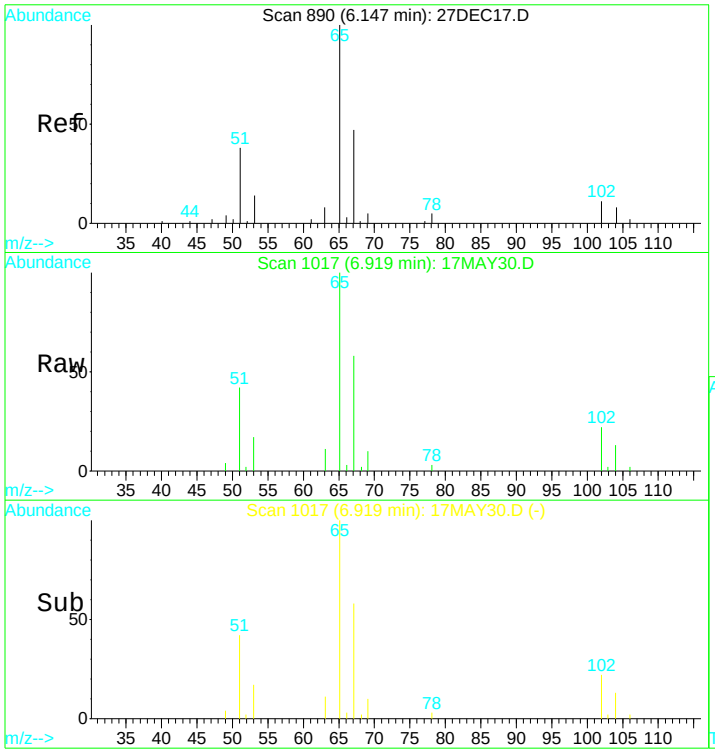


#17
Chloroform
Concen: 4.32 ug/L
RT: 6.33 min Scan# 902
Delta R.T. 0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 83 Resp: 61472

Ion	Ratio	Lower	Upper
83	100		
85	64.8	48.4	89.8

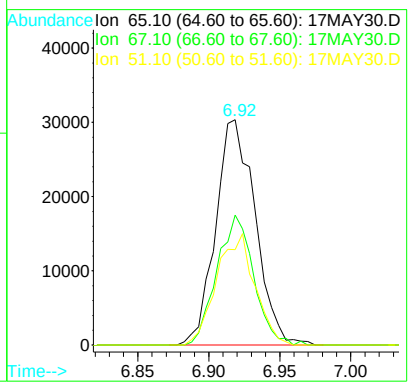


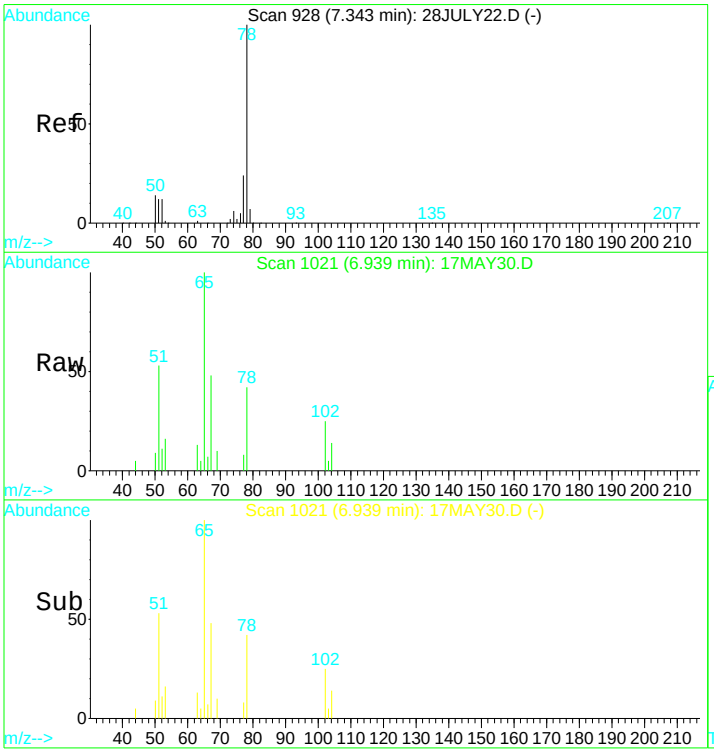


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 65 Resp: 58904

Ion	Ratio	Lower	Upper
65	100		
67	53.6	34.4	63.8
51	47.6	33.2	61.7

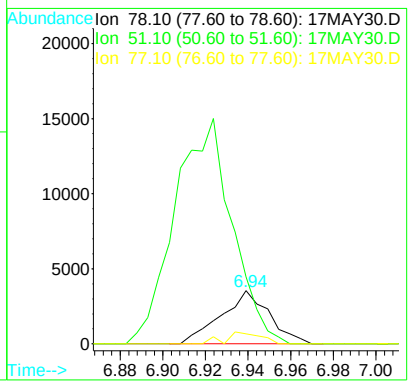


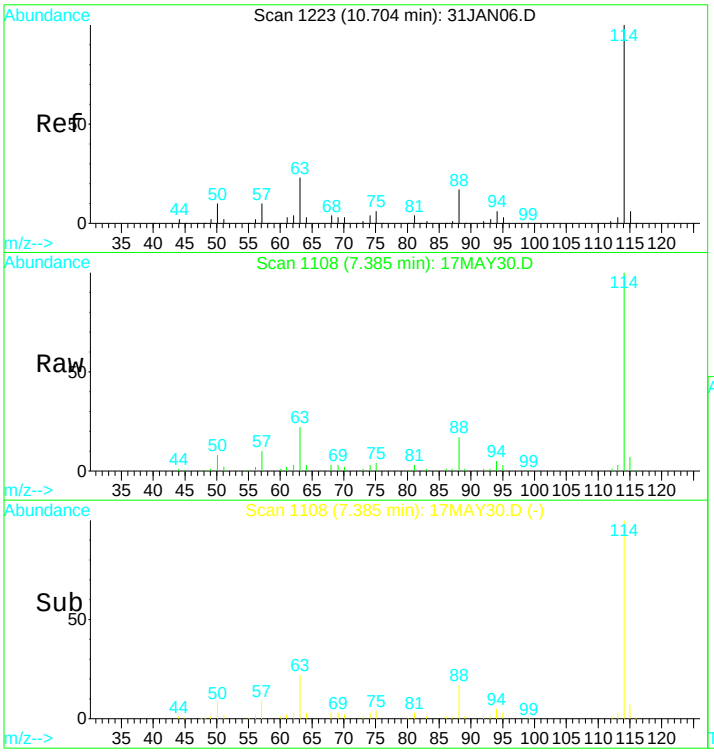


#23
Benzene
Concen: 0.17 ug/L
RT: 6.94 min Scan# 1021
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 78 Resp: 5575

Ion	Ratio	Lower	Upper
78	100		
51	503.4	121.4	225.4#
77	16.0	16.0	29.6

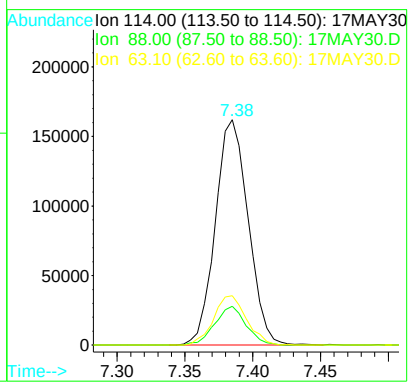


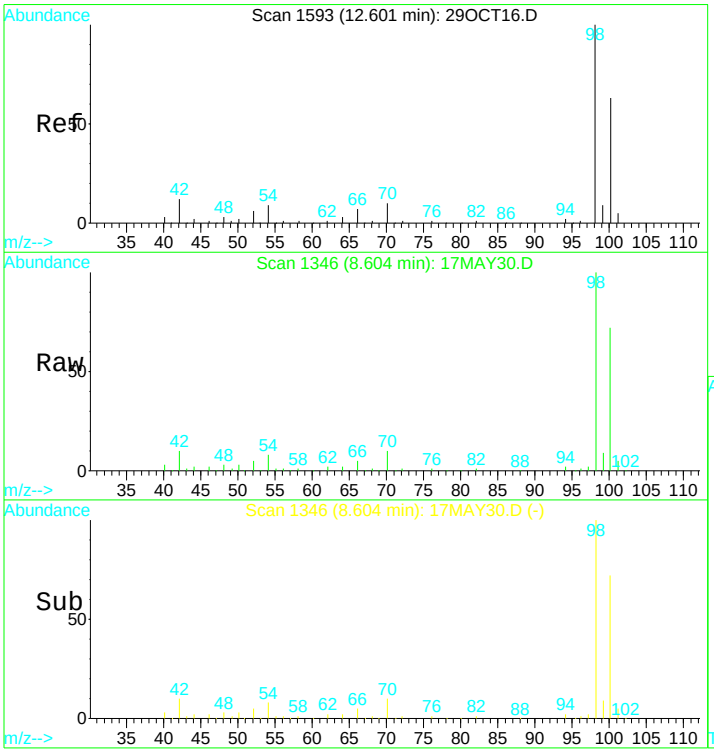


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:114 Resp: 273809

Ion	Ratio	Lower	Upper
114	100		
88	16.4	12.6	23.4
63	22.0	15.7	29.1

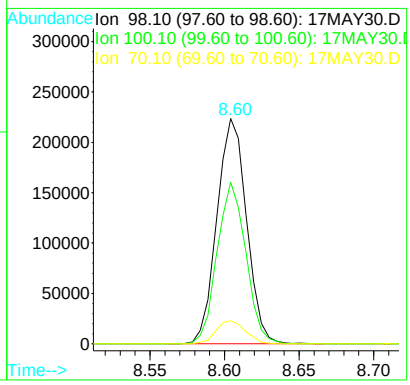


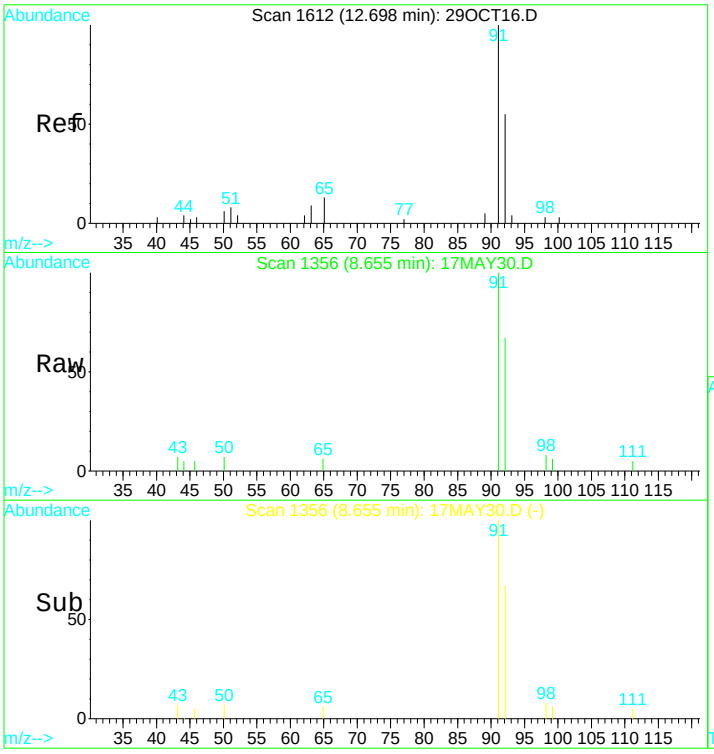


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 98 Resp: 309678

Ion	Ratio	Lower	Upper
98	100		
100	69.3	48.7	90.5
70	10.2	7.4	13.8

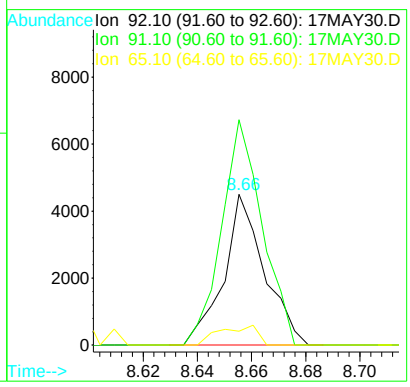


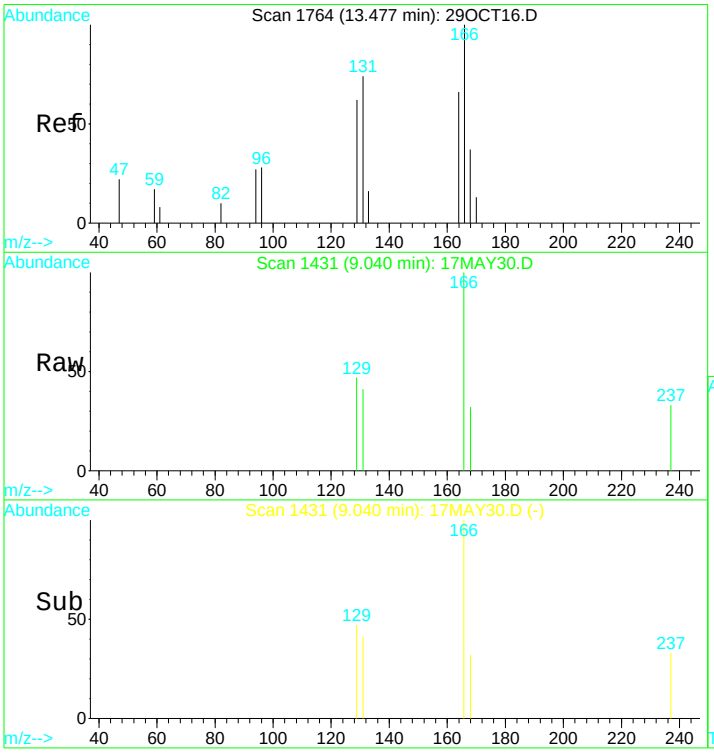


#32
Toluene
Concen: 0.23 ug/L
RT: 8.66 min Scan# 1356
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 92 Resp: 4690

Ion	Ratio	Lower	Upper
92	100		
91	148.6	125.4	233.0
65	12.2	16.6	30.8#

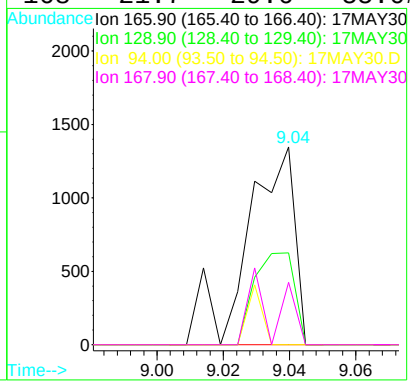


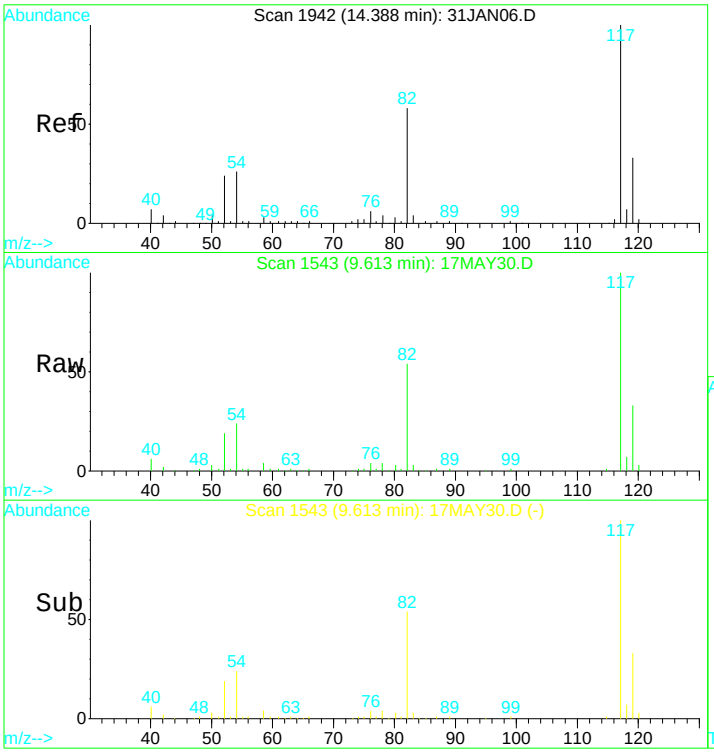


#35
Tetrachloroethene (PCE)
Concen: 0.15 ug/L
RT: 9.04 min Scan# 1431
Delta R.T. 0.01 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:166 Resp: 1347

Ion	Ratio	Lower	Upper
166	100		
129	39.0	59.5	110.5#
94	9.3	24.3	45.1#
168	21.7	29.6	55.0#

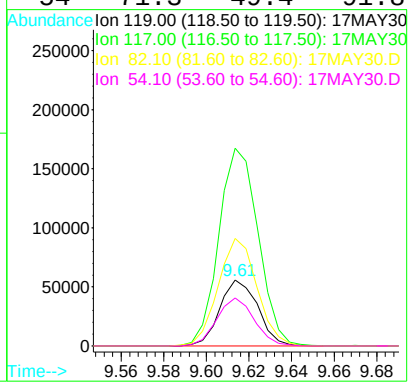


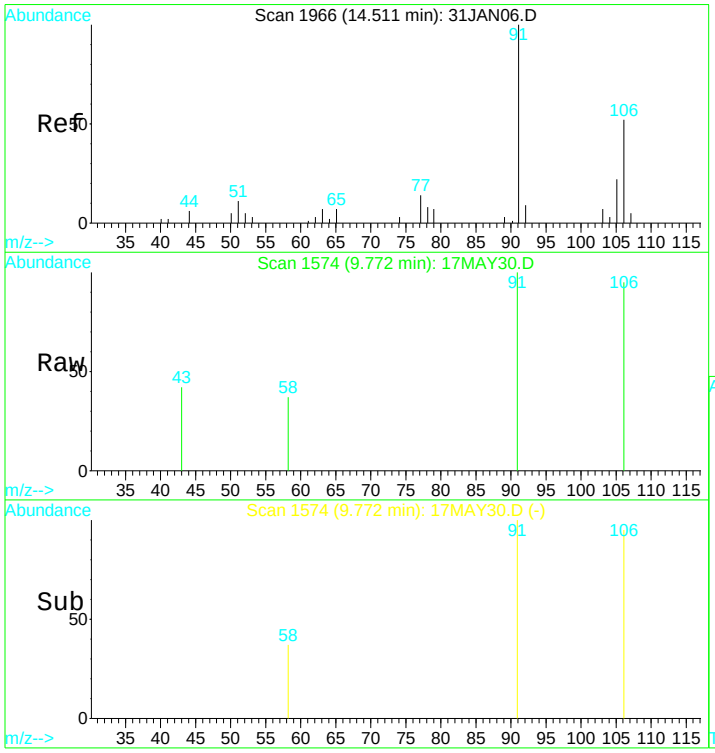


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:119 Resp: 69719

Ion	Ratio	Lower	Upper
119	100		
117	309.0	213.6	396.6
82	165.7	119.2	221.4
54	71.3	49.4	91.8

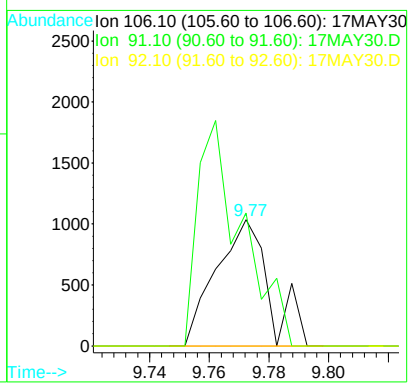


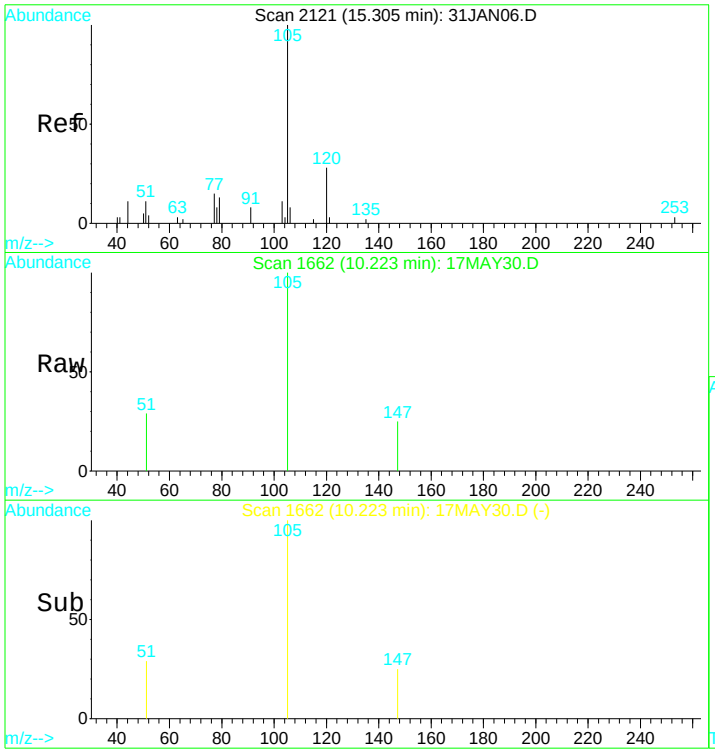


#43
P+m-Xylene
Concen: 0.09 ug/L
RT: 9.77 min Scan# 1574
Delta R.T. 0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:106 Resp: 1277

Ion	Ratio	Lower	Upper
106	100		
91	149.5	129.4	240.4
92	11.3	7.8	14.6

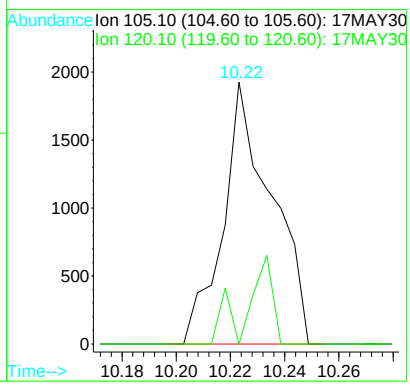


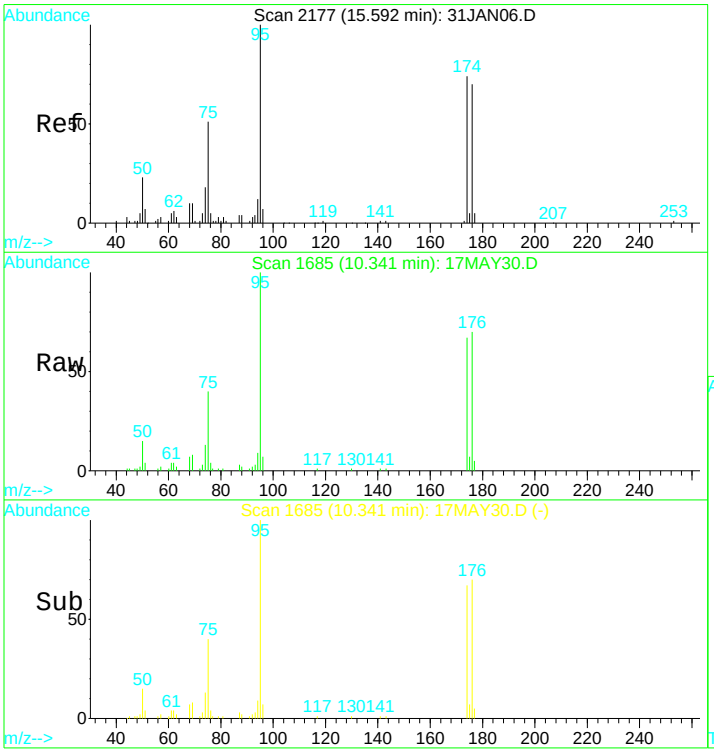


#47
Isopropylbenzene
Concen: 0.07 ug/L
RT: 10.22 min Scan# 1662
Delta R.T. -0.01 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:105 Resp: 2394

Ion	Ratio	Lower	Upper
105	100		
120	18.3	20.3	37.7#

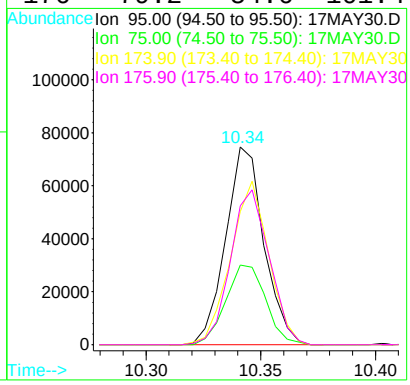


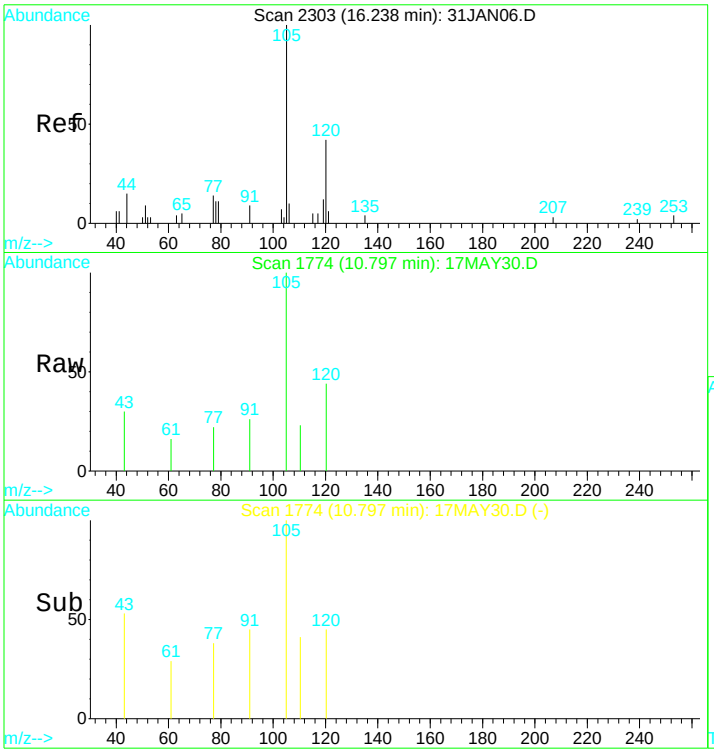


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1685
Delta R.T. -0.01 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 95 Resp: 86775

Ion	Ratio	Lower	Upper
95	100		
75	41.9	29.0	53.8
174	82.1	55.8	103.6
176	79.2	54.6	101.4

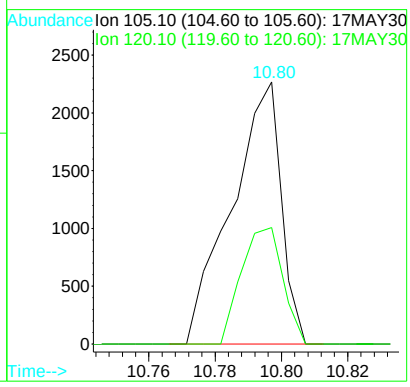


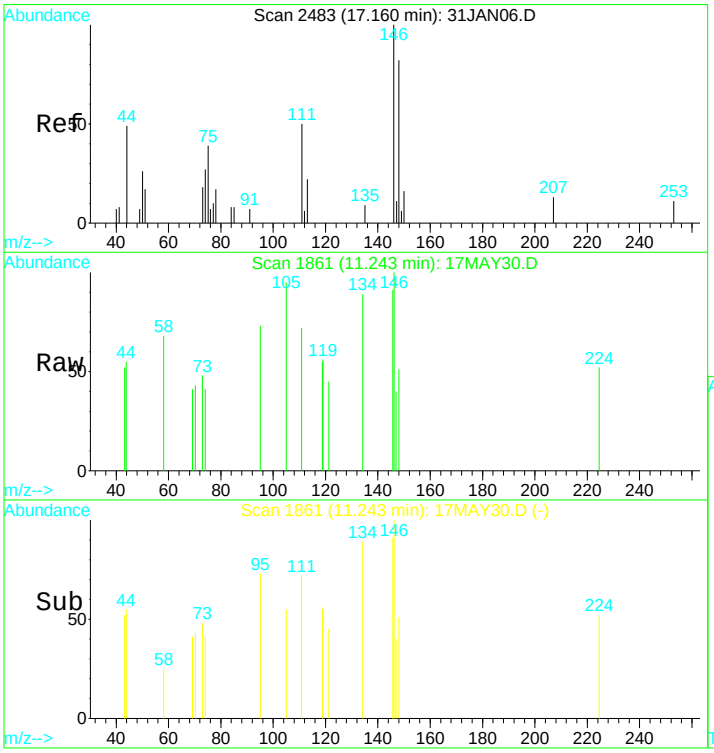


#57
1,2,4-trimethylbenzene
Concen: 0.10 ug/L
RT: 10.80 min Scan# 1774
Delta R.T. 0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:105 Resp: 2358

Ion	Ratio	Lower	Upper
105	100		
120	37.2	37.5	69.6#

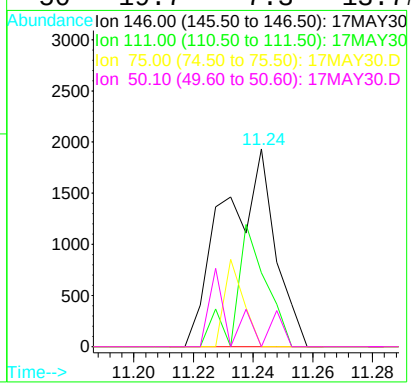


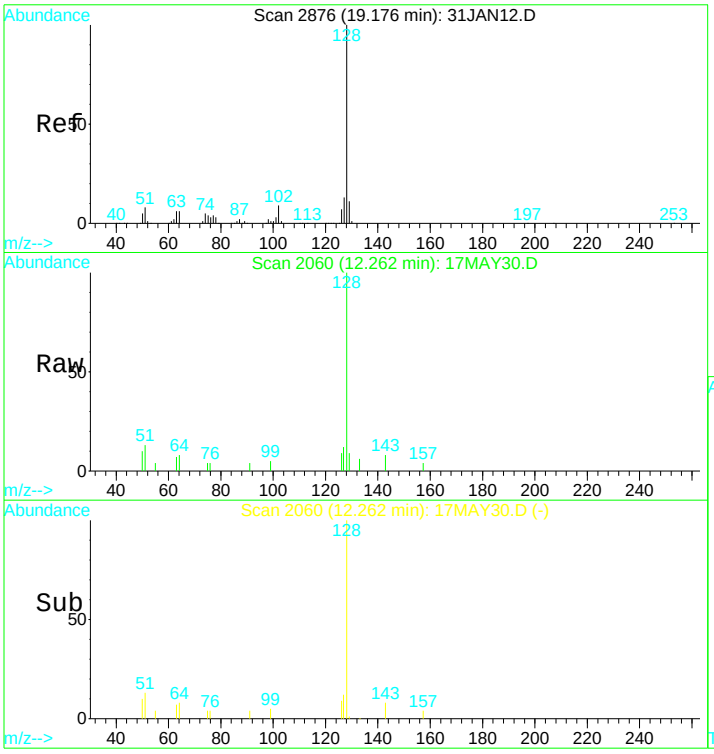


#63
1,2-Dichlorobenzene
Concen: 0.22 ug/L
RT: 11.24 min Scan# 1861
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:146 Resp: 2310

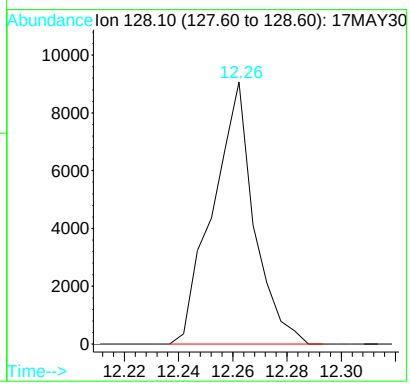
Ion	Ratio	Lower	Upper
146	100		
111	35.9	20.5	38.1
75	16.5	17.8	33.1#
50	19.7	7.3	13.7#





#68
naphthalene
Concen: 1.04 ug/L
RT: 12.26 min Scan# 2060
Delta R.T. -0.06 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:128 Resp: 9612



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY30.D Vial: 30
Acq On : 17 May 2017 5:42 pm Operator: MGC
Sample : 1713059-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:44 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177702	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	273809	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	69719	10.00	ug/L	0.00

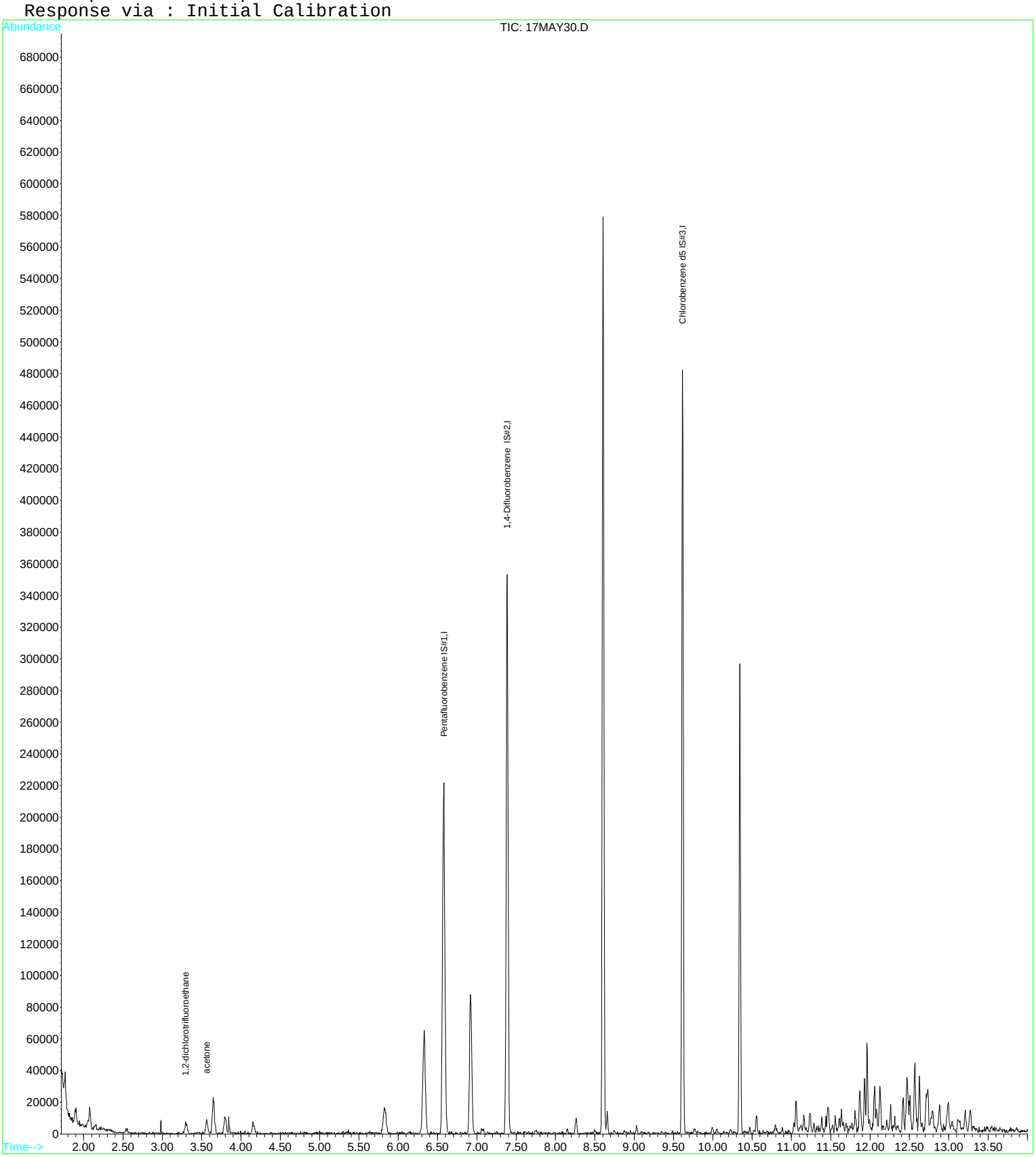
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	5322	0.52	ug/L #	78
8) acetone	3.56	43	10896	17.16	ug/L	98

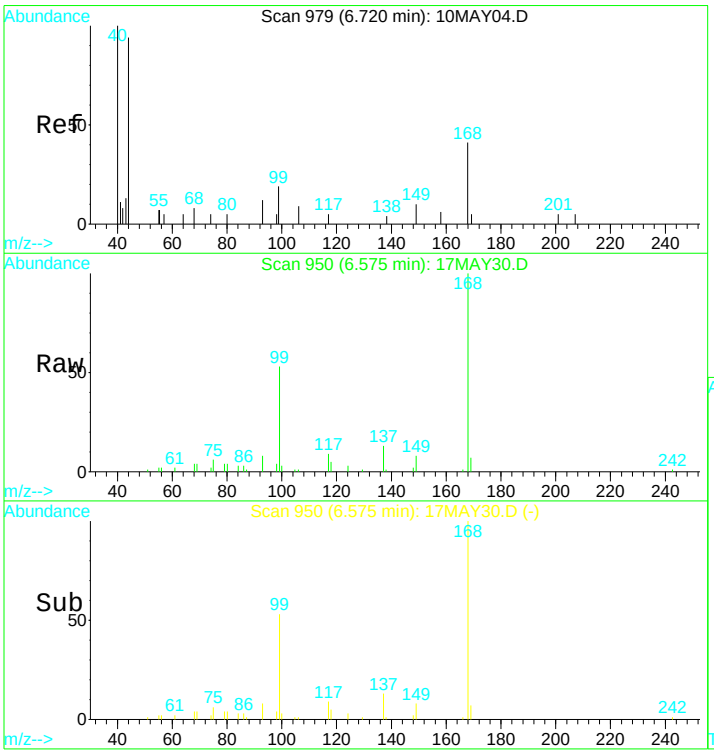
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY30.D Vial: 30
Acq On : 17 May 2017 5:42 pm Operator: MGC
Sample : 1713059-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:44 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration

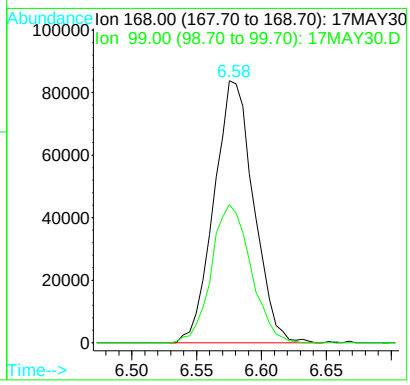


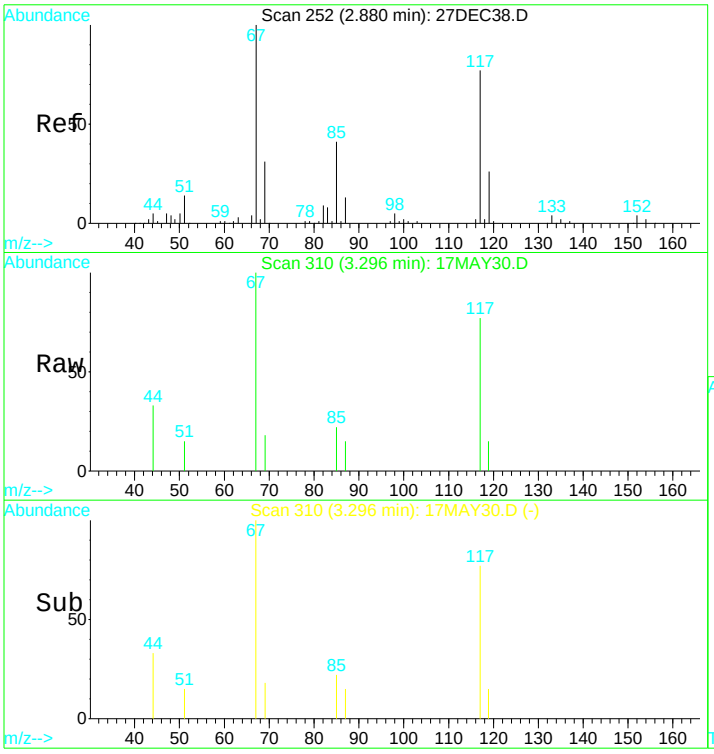


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 950
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:168 Resp: 177702

Ion	Ratio	Lower	Upper
168	100		
99	52.5	34.8	64.6

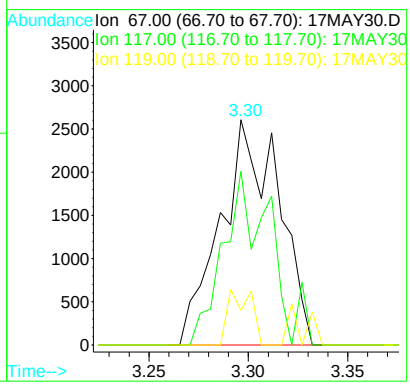


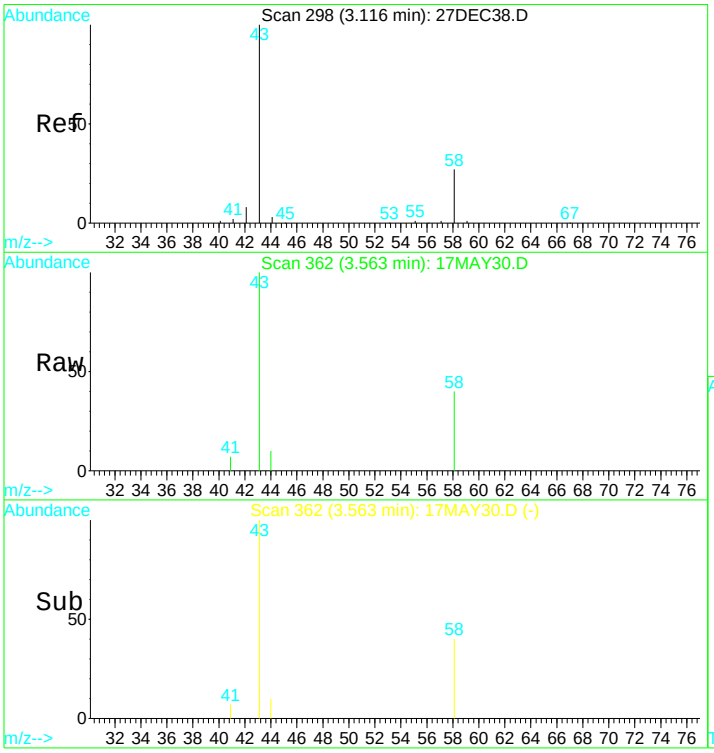


#4
1,2-dichlorotrifluoroethane
Concen: 0.52 ug/L
RT: 3.30 min Scan# 310
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 67 Resp: 5322

Ion	Ratio	Lower	Upper
67	100		
117	58.0	51.7	96.1
119	9.7	17.3	32.1#

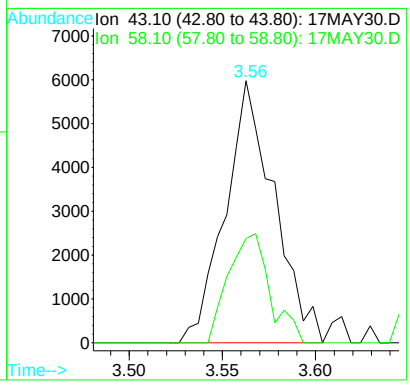


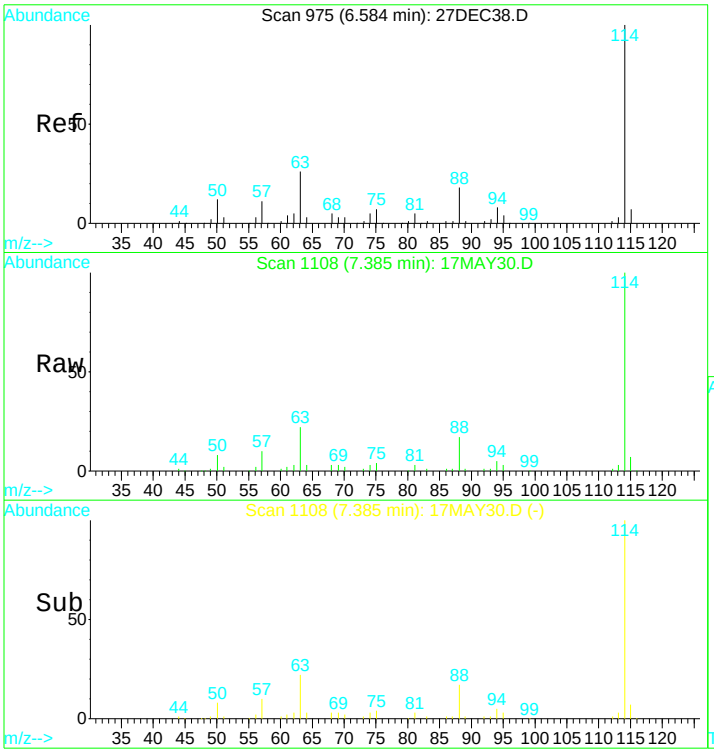


#8
acetone
Concen: 17.16 ug/L
RT: 3.56 min Scan# 362
Delta R.T. 0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion: 43 Resp: 10896

Ion	Ratio	Lower	Upper
43	100		
58	35.3	25.5	47.3

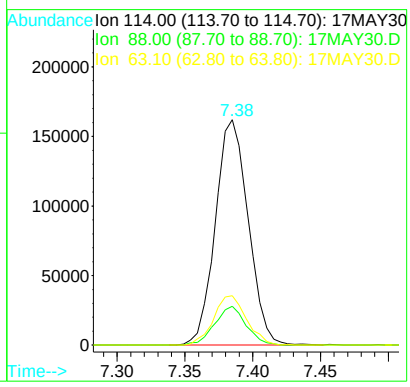


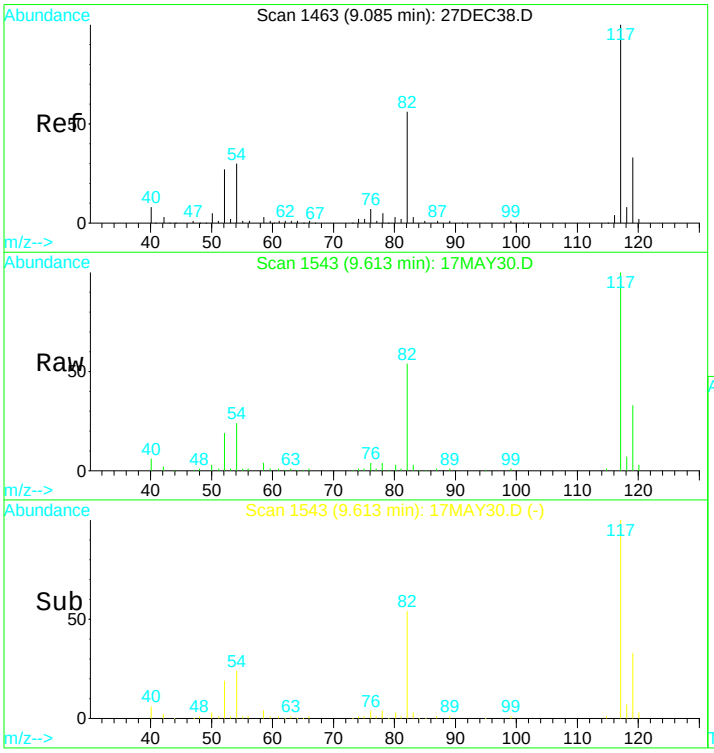


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:114 Resp: 273809

Ion	Ratio	Lower	Upper
114	100		
88	16.4	12.0	22.2
63	22.0	15.8	29.3

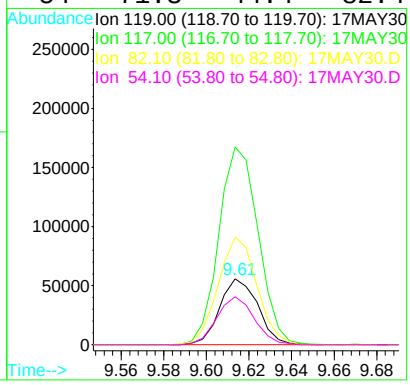




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 17MAY30.D
Acq: 17 May 2017 5:42 pm

Tgt Ion:119 Resp: 69719

Ion	Ratio	Lower	Upper
119	100		
117	309.0	207.6	385.6
82	165.7	110.0	204.2
54	71.3	44.4	82.4



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY19.D Vial: 19
Acq On : 17 May 2017 1:28 pm Operator: MGC
Sample : 1713059-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:29 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173851	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	268815	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	65995	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	52340	9.15	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 91.50%			
31) Toluene d8 SMC#2	8.61	98	295136	9.85	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.50%			
49) Bromofluorobenzene SMC#3	10.34	95	82910	9.51	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.10%			

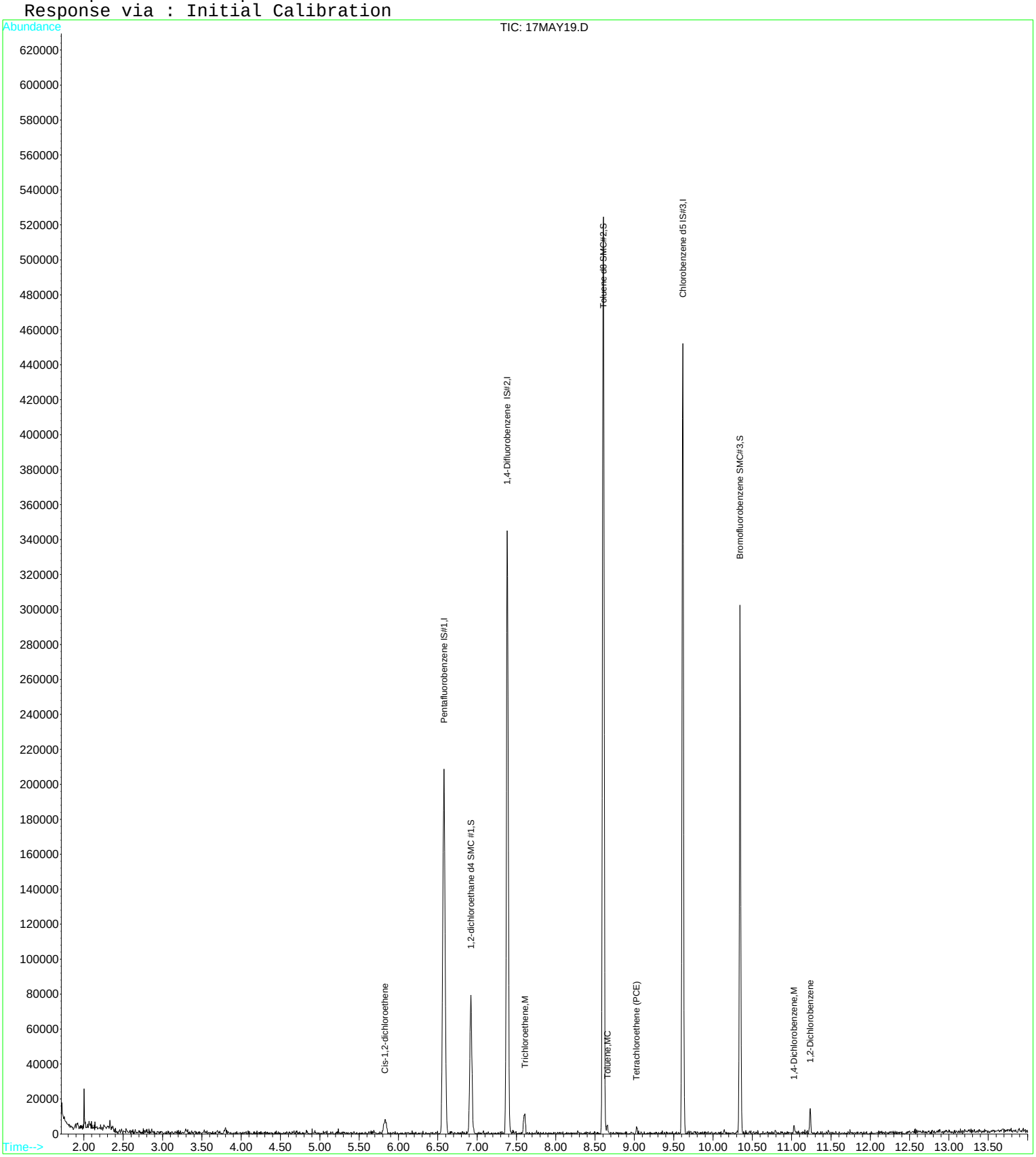
Target Compounds						Qvalue
15) Cis-1,2-dichloroethene	5.83	96	5051	0.58	ug/L	88
25) Trichloroethene	7.61	130	4089	0.46	ug/L #	87
32) Toluene	8.66	92	1511	0.08	ug/L #	74
35) Tetrachloroethene (PCE)	9.03	166	888	0.10	ug/L #	73
61) 1,4-Dichlorobenzene	11.03	146	1526	0.14	ug/L #	47
63) 1,2-Dichlorobenzene	11.24	146	4637	0.47	ug/L #	79

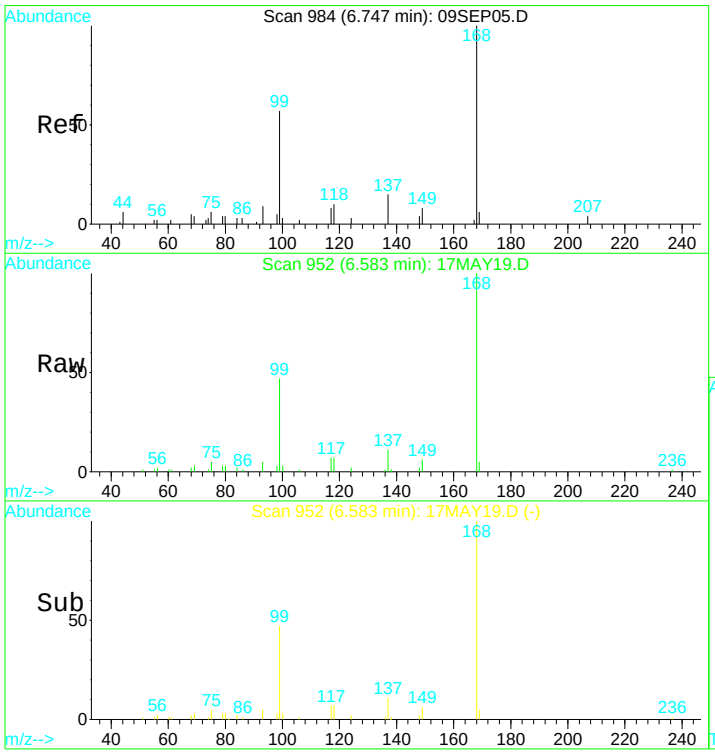
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY19.D Vial: 19
Acq On : 17 May 2017 1:28 pm Operator: MGC
Sample : 1713059-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:29 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

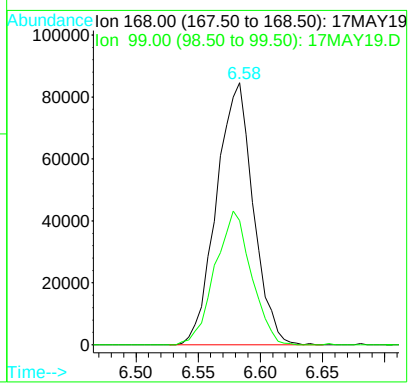


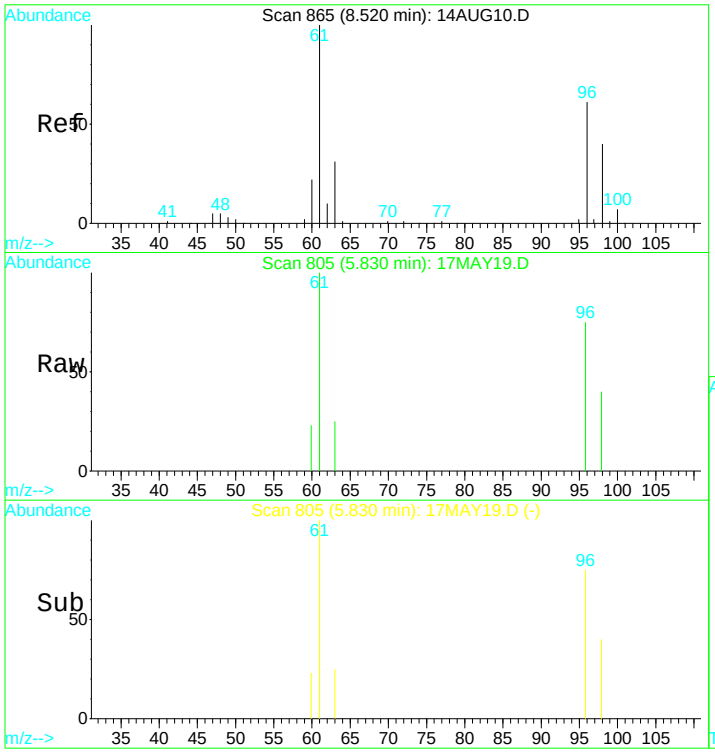


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 952
Delta R.T. 0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion:168 Resp: 173851

Ion	Ratio	Lower	Upper
168	100		
99	50.3	37.7	69.9

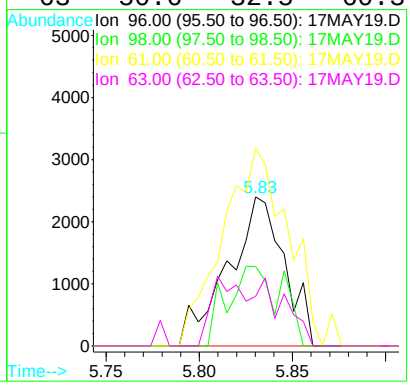


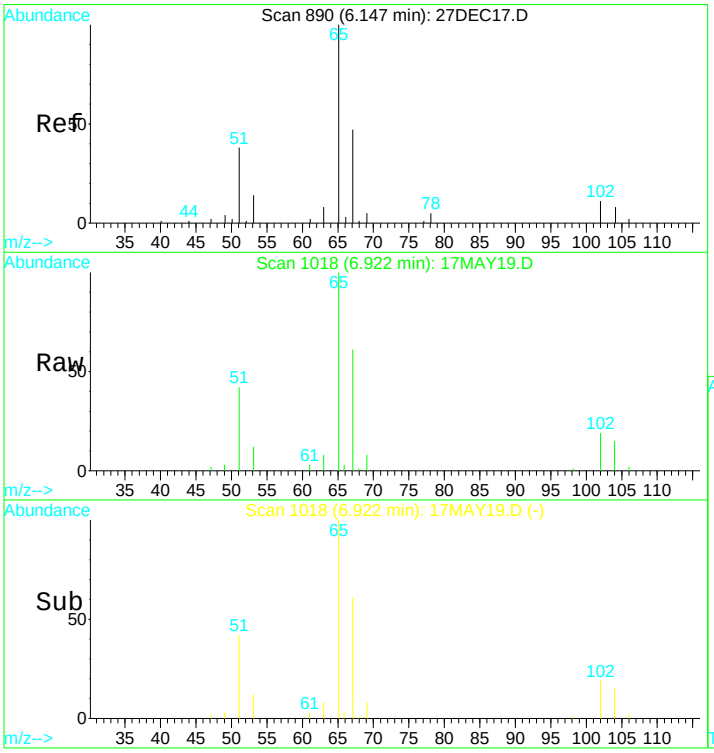


#15
Cis-1,2-dichloroethene
Concen: 0.58 ug/L
RT: 5.83 min Scan# 805
Delta R.T. 0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion: 96 Resp: 5051

Ion	Ratio	Lower	Upper
96	100		
98	50.9	44.2	82.0
61	152.1	117.9	218.9
63	50.6	32.5	60.3

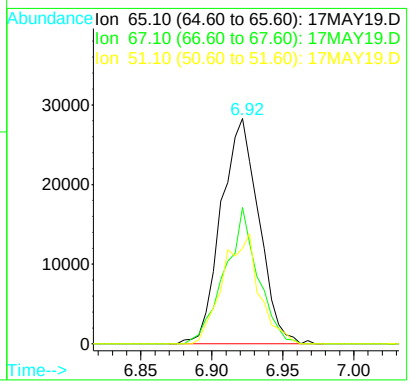


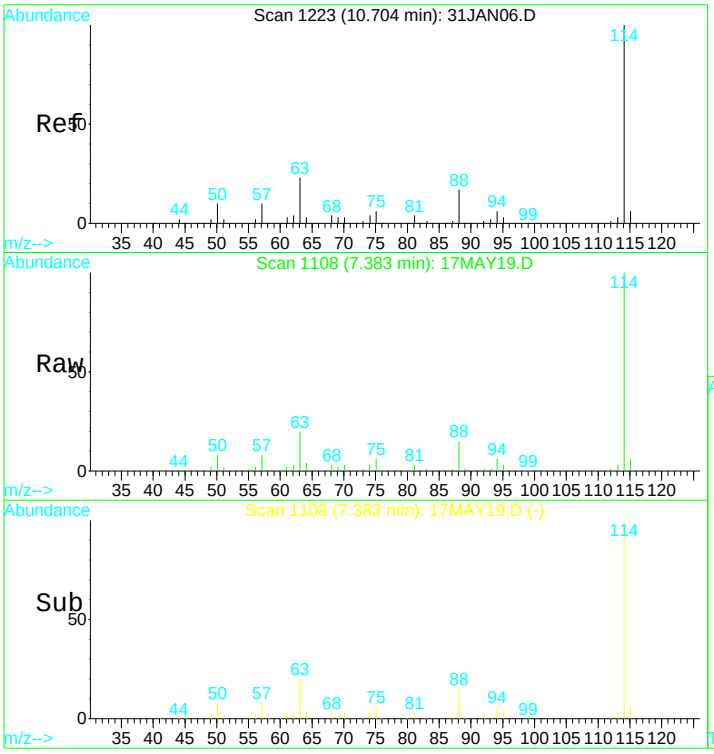


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1018
Delta R.T. 0.01 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion: 65 Resp: 52340

Ion	Ratio	Lower	Upper
65	100		
67	53.2	34.4	63.8
51	47.3	33.2	61.7

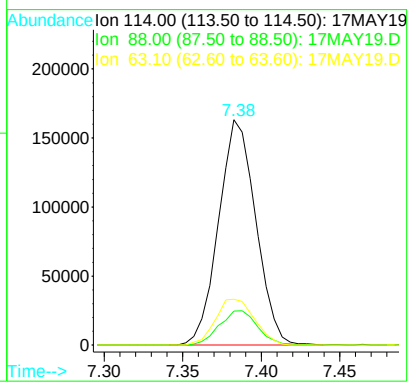


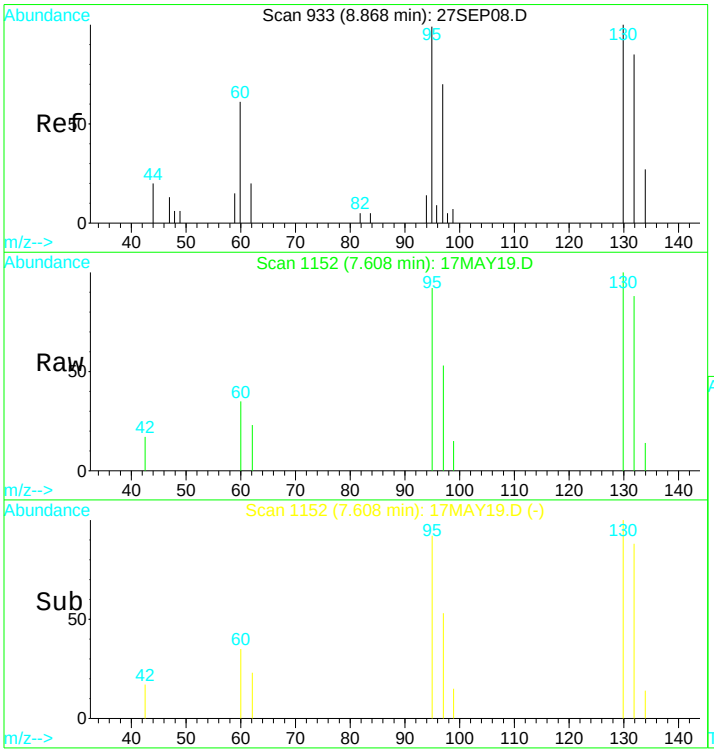


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. -0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion:114 Resp: 268815

Ion	Ratio	Lower	Upper
114	100		
88	15.7	12.6	23.4
63	21.5	15.7	29.1

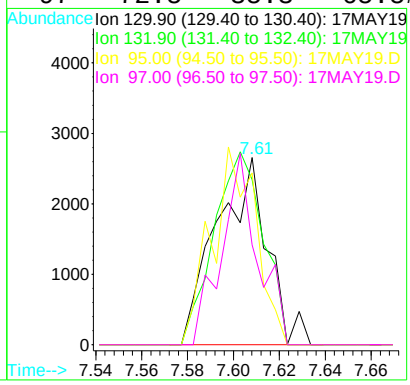


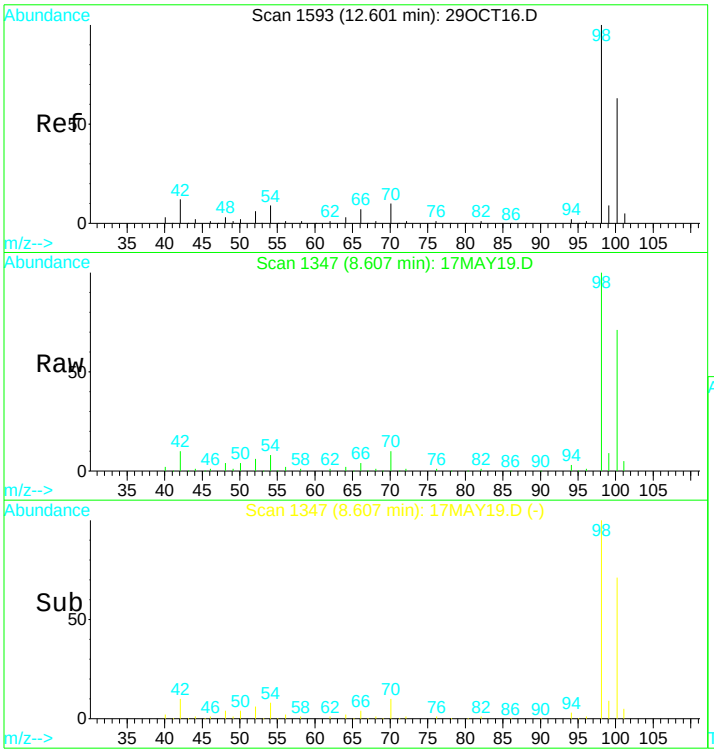


#25
Trichloroethene
Concen: 0.46 ug/L
RT: 7.61 min Scan# 1152
Delta R.T. 0.01 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion:130 Resp: 4089

Ion	Ratio	Lower	Upper
130	100		
132	99.9	62.4	115.8
95	91.2	67.5	125.4
97	72.5	35.3	65.5#

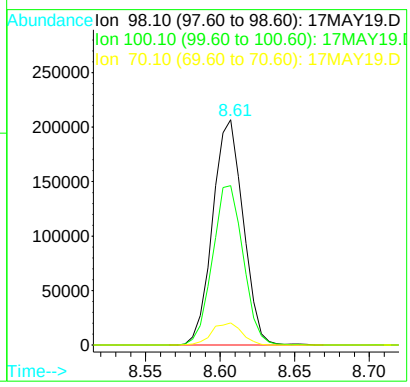


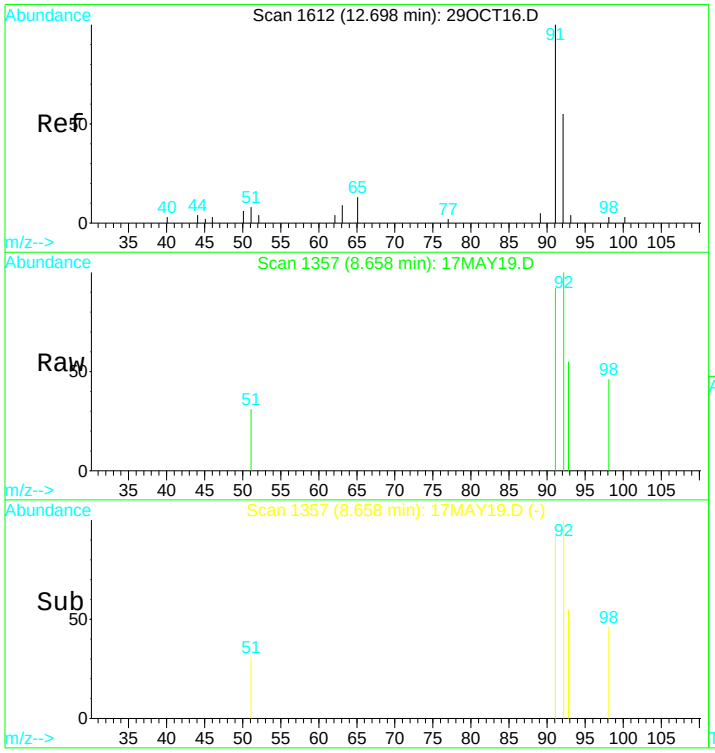


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.61 min Scan# 1347
Delta R.T. 0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion: 98 Resp: 295136

Ion	Ratio	Lower	Upper
98	100		
100	71.2	48.7	90.5
70	9.8	7.4	13.8

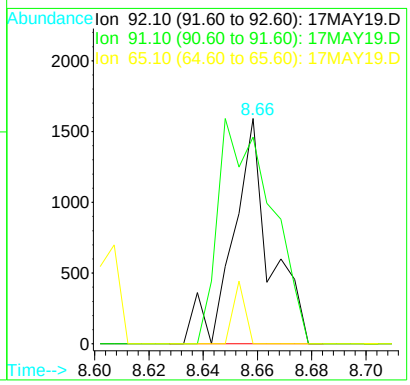


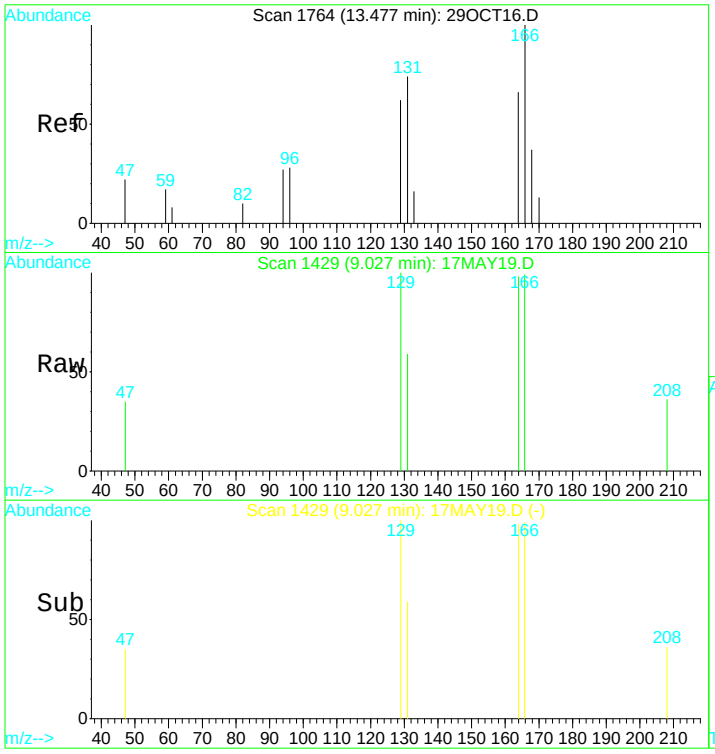


#32
Toluene
Concen: 0.08 ug/L
RT: 8.66 min Scan# 1357
Delta R.T. 0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion: 92 Resp: 1511

Ion	Ratio	Lower	Upper
92	100		
91	142.8	125.4	233.0
65	9.0	16.6	30.8#

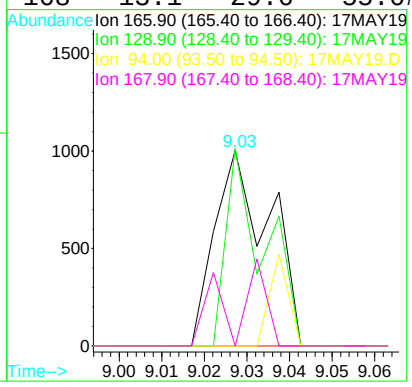


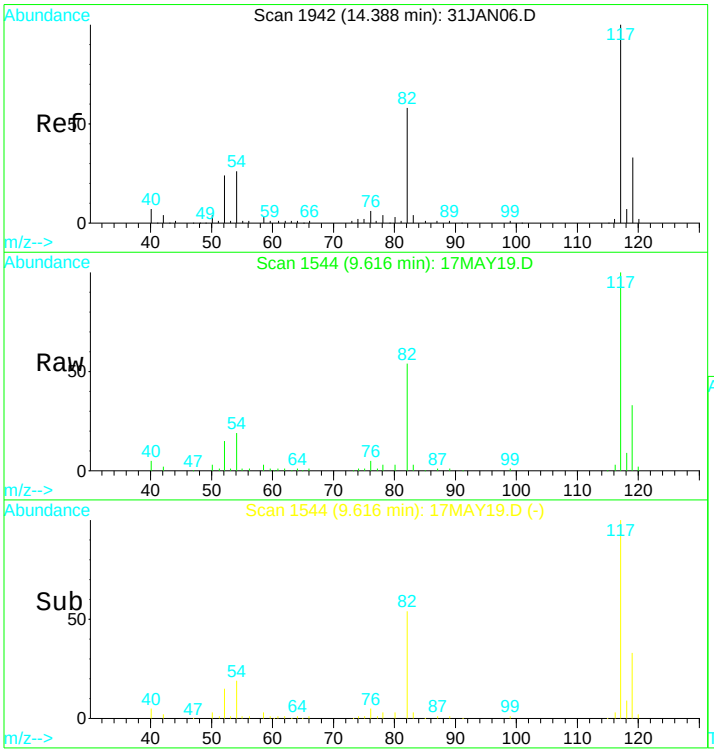


#35
Tetrachloroethene (PCE)
Concen: 0.10 ug/L
RT: 9.03 min Scan# 1429
Delta R.T. -0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion:166 Resp: 888

Ion	Ratio	Lower	Upper
166	100		
129	70.9	59.5	110.5
94	16.3	24.3	45.1#
168	13.1	29.6	55.0#

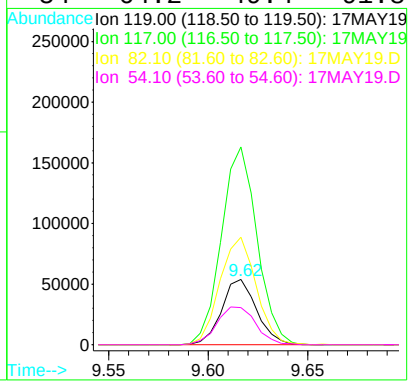


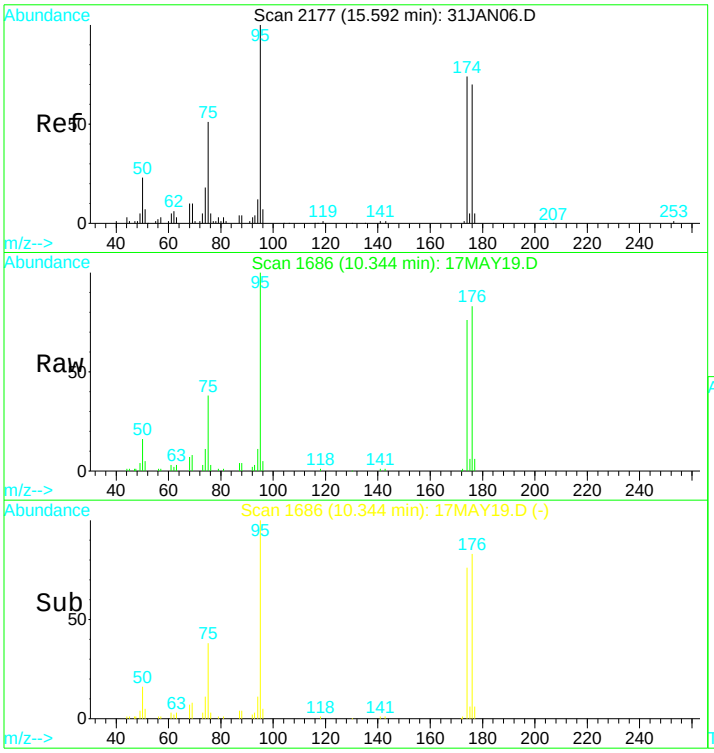


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion:119 Resp: 65995

Ion	Ratio	Lower	Upper
119	100		
117	307.0	213.6	396.6
82	170.2	119.2	221.4
54	64.2	49.4	91.8

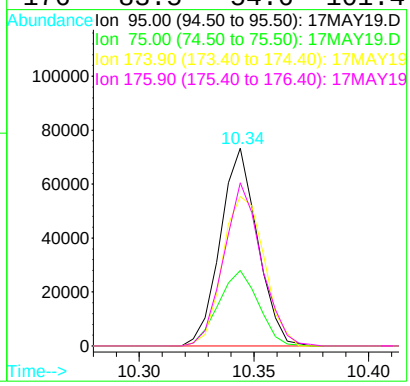


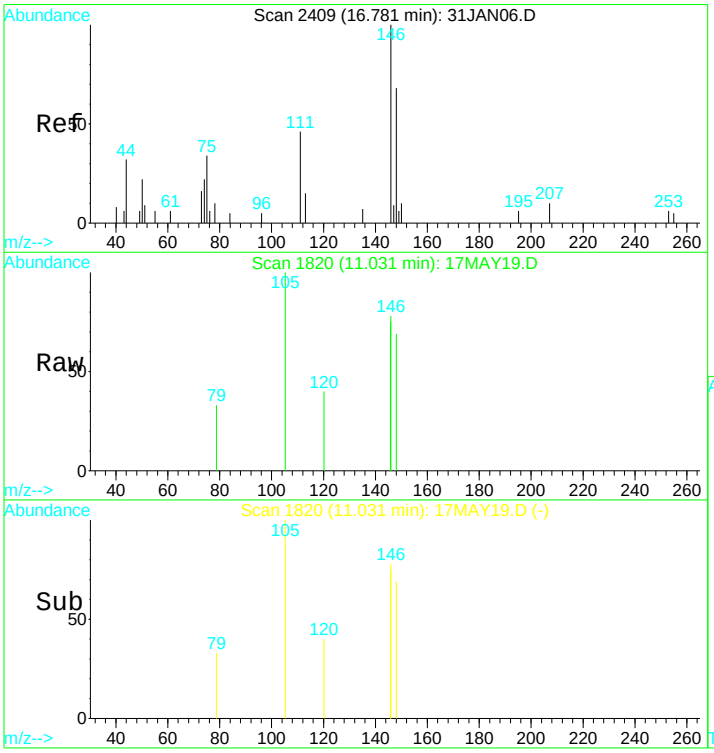


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. -0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion: 95 Resp: 82910

Ion	Ratio	Lower	Upper
95	100		
75	40.8	29.0	53.8
174	84.3	55.8	103.6
176	83.5	54.6	101.4

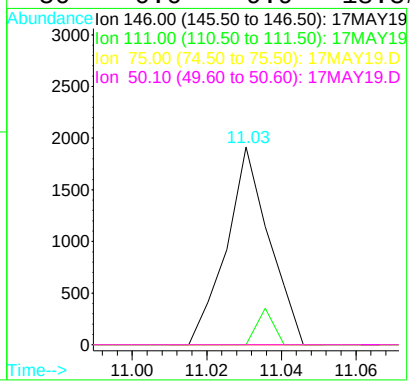


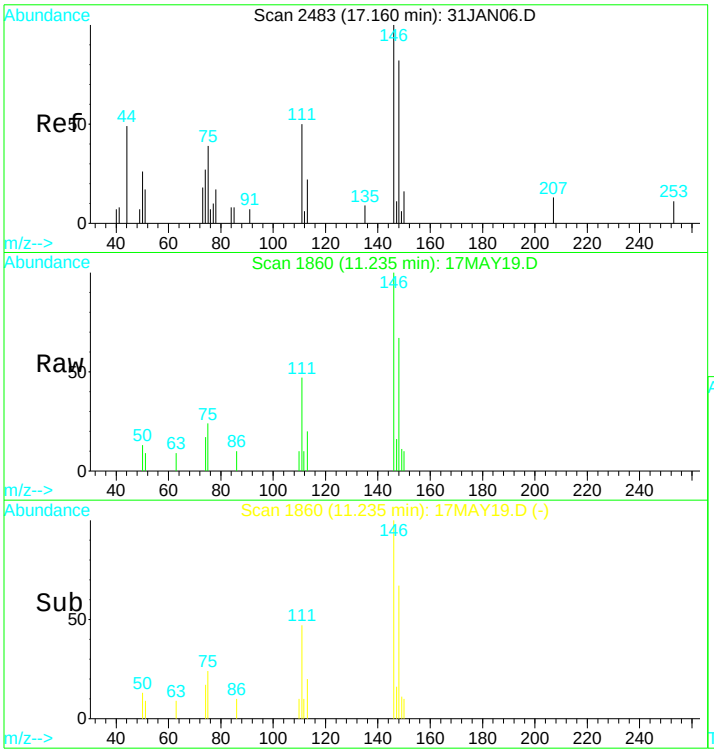


#61
1,4-Dichlorobenzene
Concen: 0.14 ug/L
RT: 11.03 min Scan# 1820
Delta R.T. -0.00 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion:146 Resp: 1526

Ion	Ratio	Lower	Upper
146	100		
111	7.1	28.2	52.4#
75	0.0	23.6	43.8#
50	0.0	9.9	18.5#

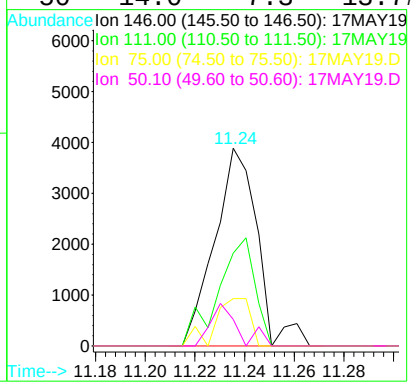




#63
1,2-Dichlorobenzene
Concen: 0.47 ug/L
RT: 11.24 min Scan# 1860
Delta R.T. -0.01 min
Lab File: 17MAY19.D
Acq: 17 May 2017 1:28 pm

Tgt Ion:146 Resp: 4637

Ion	Ratio	Lower	Upper
146	100		
111	47.1	20.5	38.1#
75	19.9	17.8	33.1
50	14.0	7.3	13.7#



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY19.D Vial: 19
Acq On : 17 May 2017 1:28 pm Operator: MGC
Sample : 1713059-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:30 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173851	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	268815	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	65995	10.00	ug/L	0.00

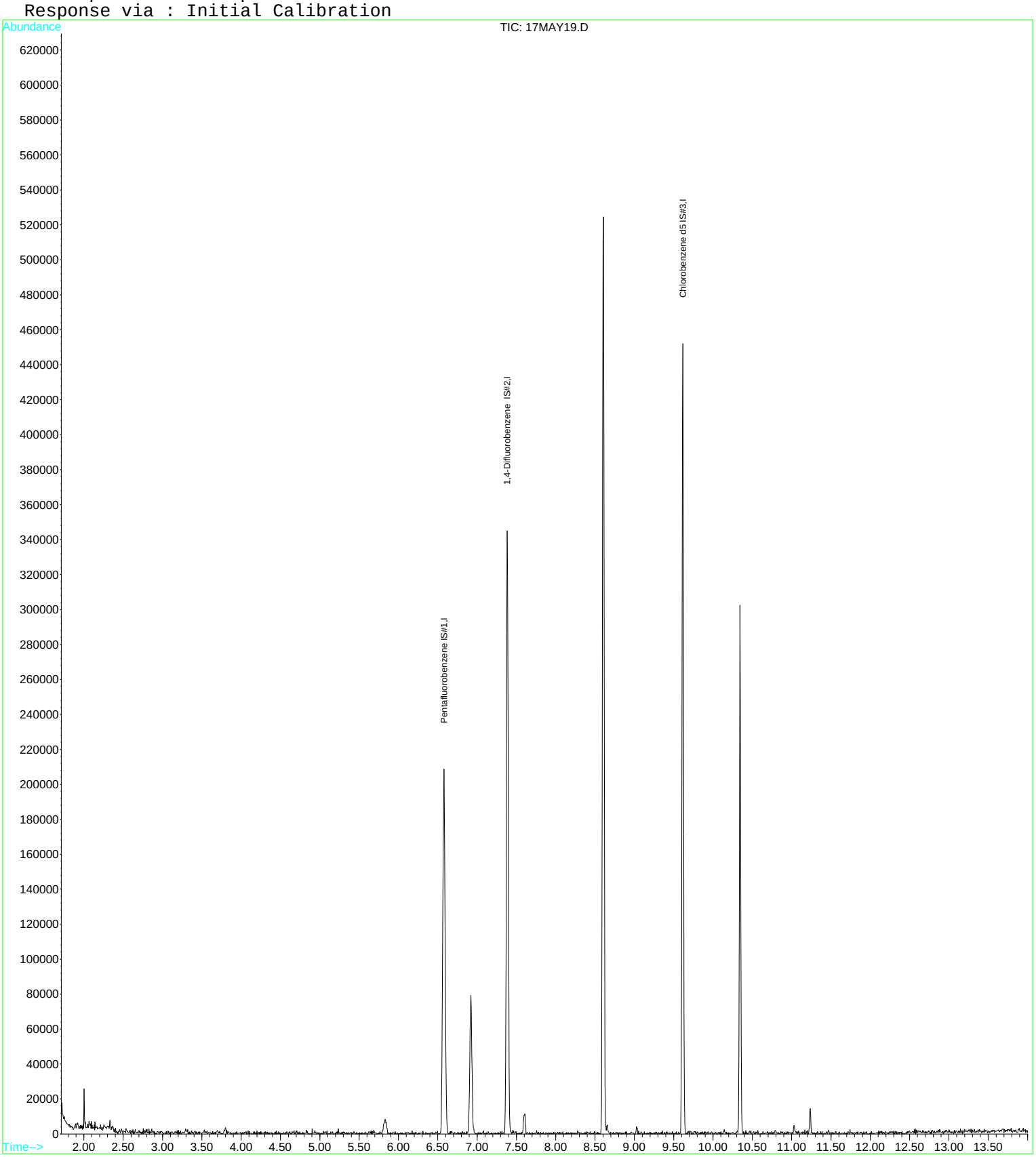
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY19.D Vial: 19
Acq On : 17 May 2017 1:28 pm Operator: MGC
Sample : 1713059-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:30 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY20.D Vial: 20
Acq On : 17 May 2017 1:51 pm Operator: MGC
Sample : 1713059-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:31 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	199577	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	306917	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	75547	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	60924	9.28	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 92.80%			
31) Toluene d8 SMC#2	8.61	98	334410	9.78	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.80%			
49) Bromofluorobenzene SMC#3	10.34	95	96083	9.63	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.30%			

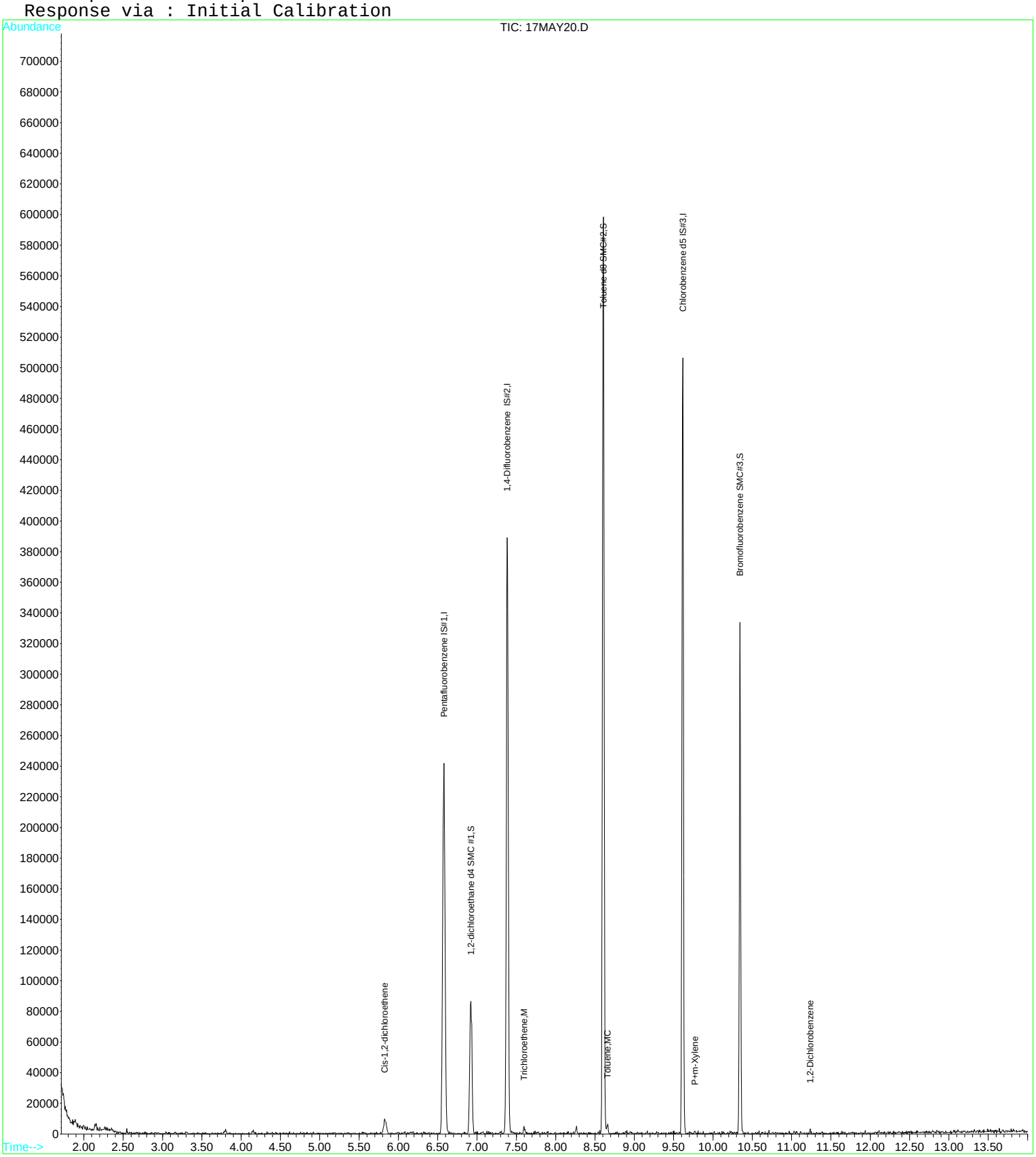
Target Compounds						Qvalue
15) Cis-1,2-dichloroethene	5.83	96	5092	0.51	ug/L	93
25) Trichloroethene	7.60	130	1033	0.10	ug/L #	37
32) Toluene	8.66	92	2555	0.11	ug/L	94
43) P+m-Xylene	9.77	106	942	0.06	ug/L #	29
63) 1,2-Dichlorobenzene	11.24	146	908	0.08	ug/L #	49

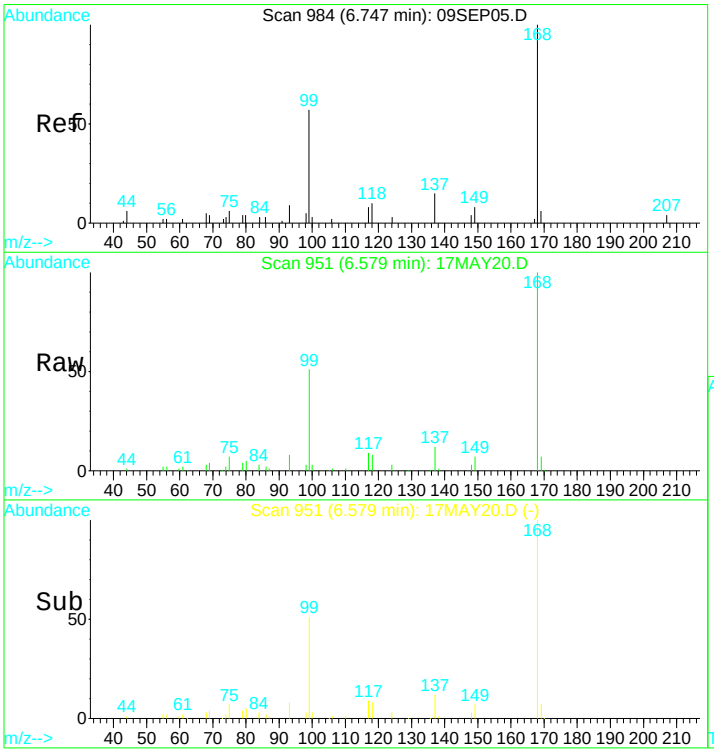
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY20.D Vial: 20
Acq On : 17 May 2017 1:51 pm Operator: MGC
Sample : 1713059-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:31 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

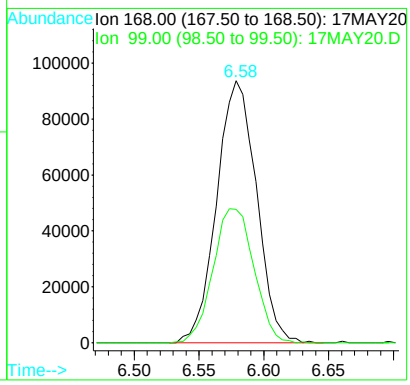


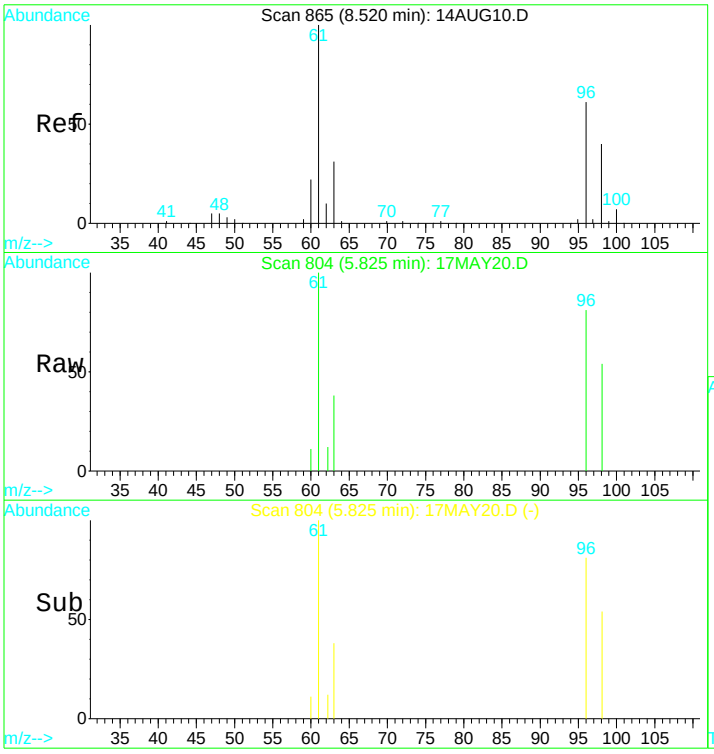


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. -0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion:168 Resp: 199577

Ion	Ratio	Lower	Upper
168	100		
99	52.6	37.7	69.9

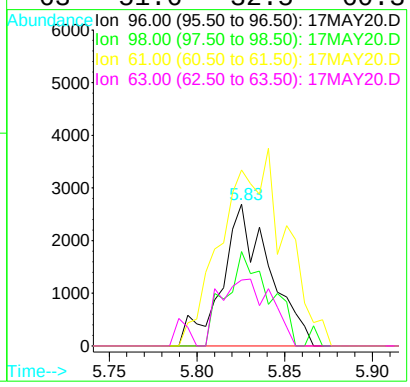


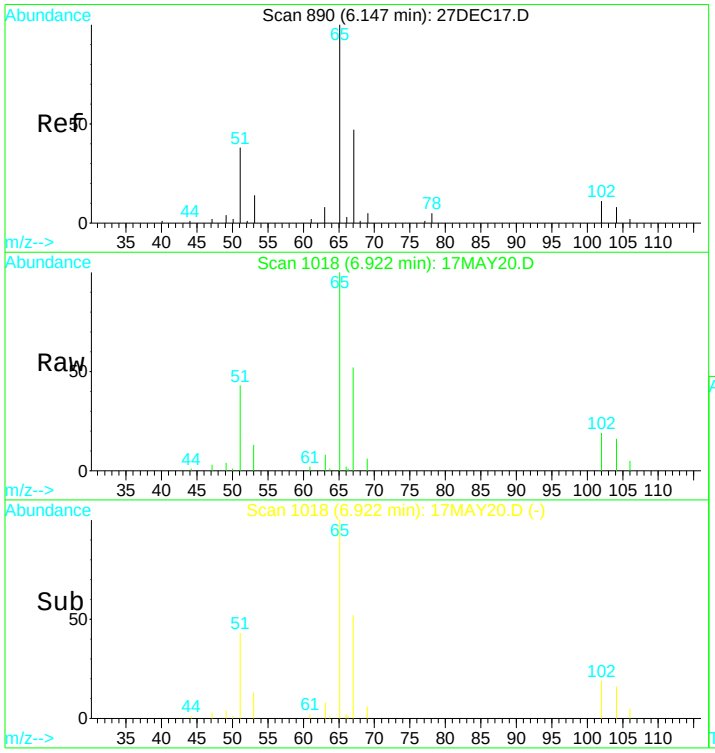


#15
Cis-1,2-dichloroethene
Concen: 0.51 ug/L
RT: 5.83 min Scan# 804
Delta R.T. -0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion: 96 Resp: 5092

Ion	Ratio	Lower	Upper
96	100		
98	61.1	44.2	82.0
61	180.5	117.9	218.9
63	51.6	32.5	60.3

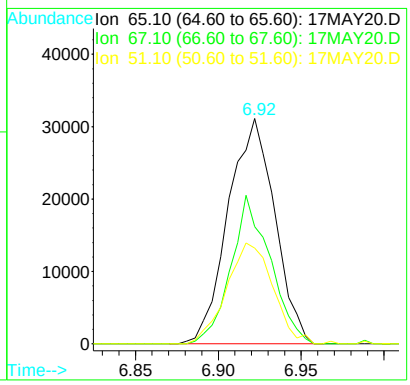


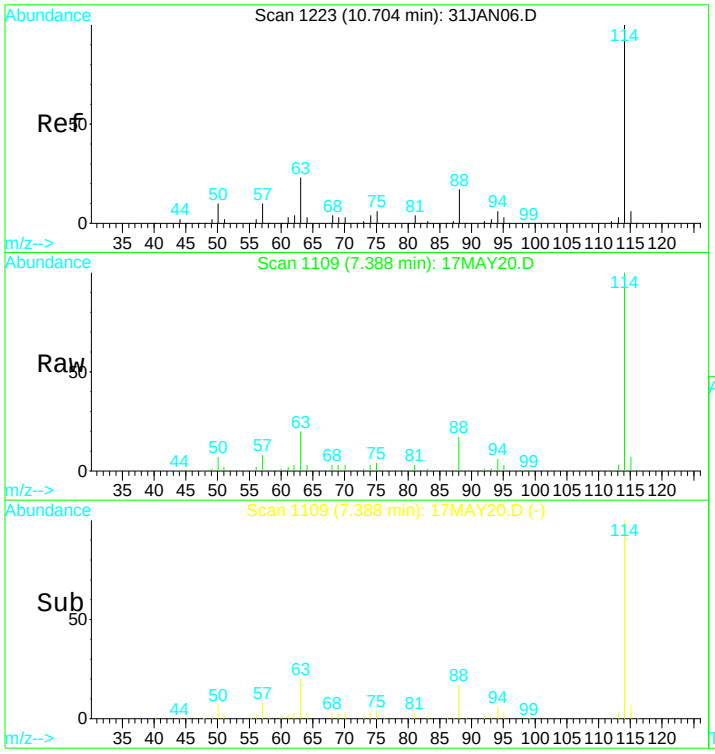


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1018
Delta R.T. 0.01 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion: 65 Resp: 60924

Ion	Ratio	Lower	Upper
65	100		
67	55.4	34.4	63.8
51	44.1	33.2	61.7

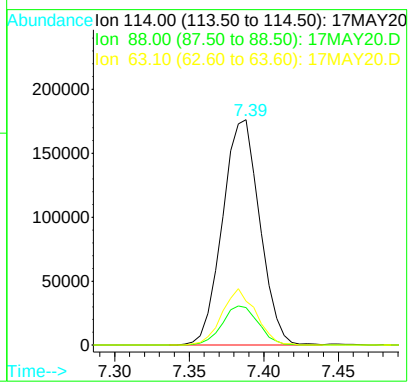


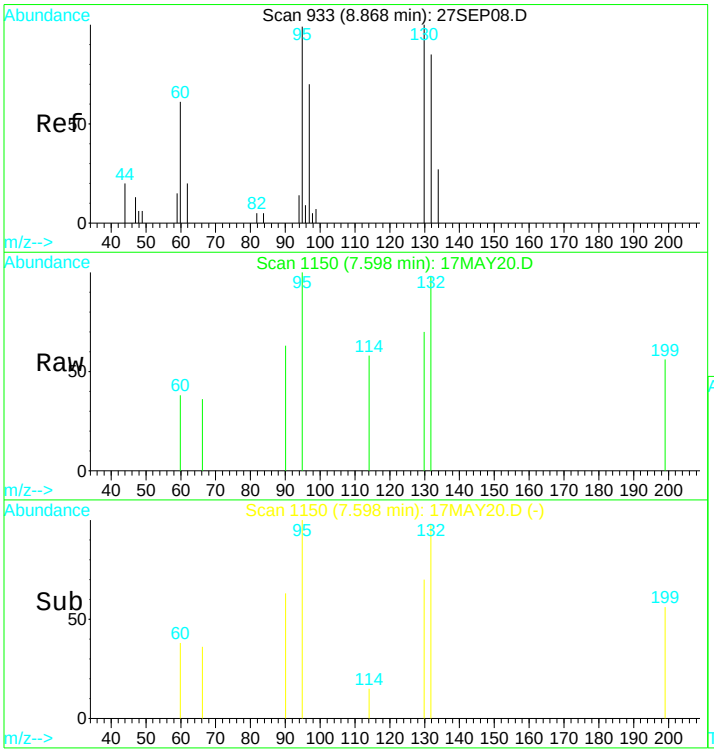


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.39 min Scan# 1109
Delta R.T. 0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion:114 Resp: 306917

Ion	Ratio	Lower	Upper
114	100		
88	16.9	12.6	23.4
63	22.6	15.7	29.1

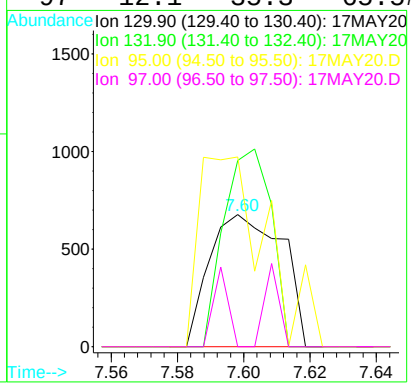


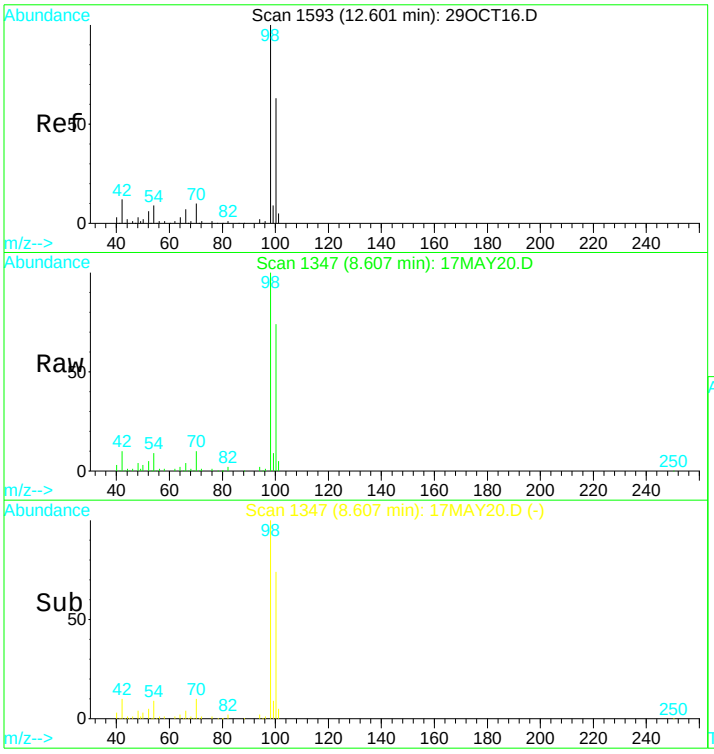


#25
Trichloroethene
Concen: 0.10 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. -0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion:130 Resp: 1033

Ion	Ratio	Lower	Upper
130	100		
132	0.0	62.4	115.8#
95	132.6	67.5	125.4#
97	12.1	35.3	65.5#

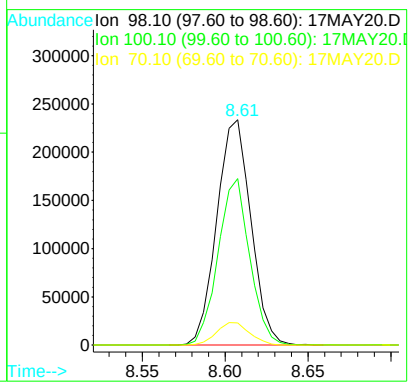


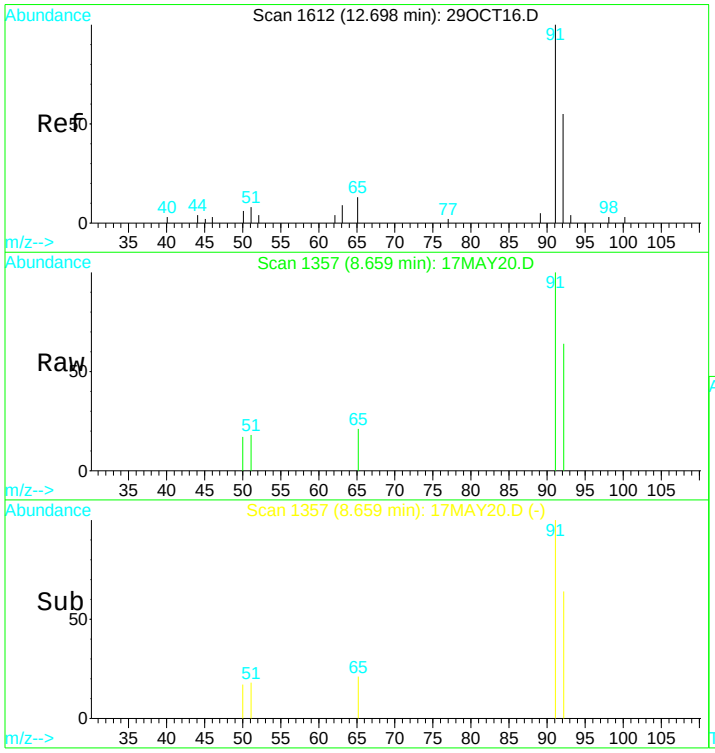


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.61 min Scan# 1347
Delta R.T. 0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion: 98 Resp: 334410

Ion	Ratio	Lower	Upper
98	100		
100	68.3	48.7	90.5
70	9.8	7.4	13.8

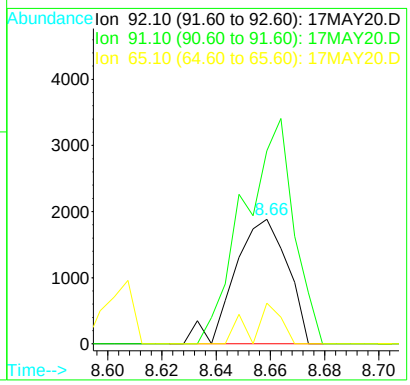


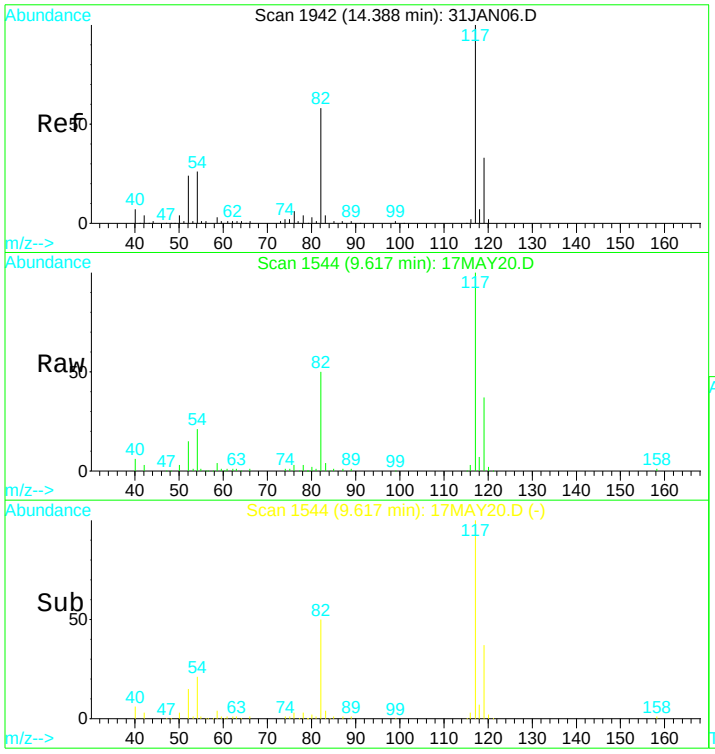


#32
Toluene
Concen: 0.11 ug/L
RT: 8.66 min Scan# 1357
Delta R.T. 0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion: 92 Resp: 2555

Ion	Ratio	Lower	Upper
92	100		
91	171.2	125.4	233.0
65	17.7	16.6	30.8

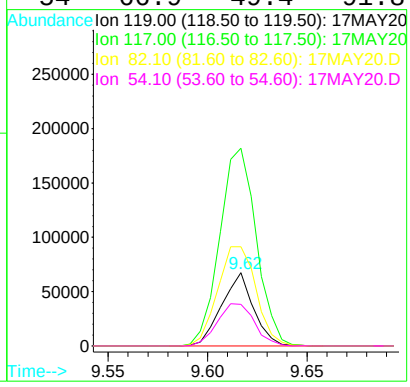


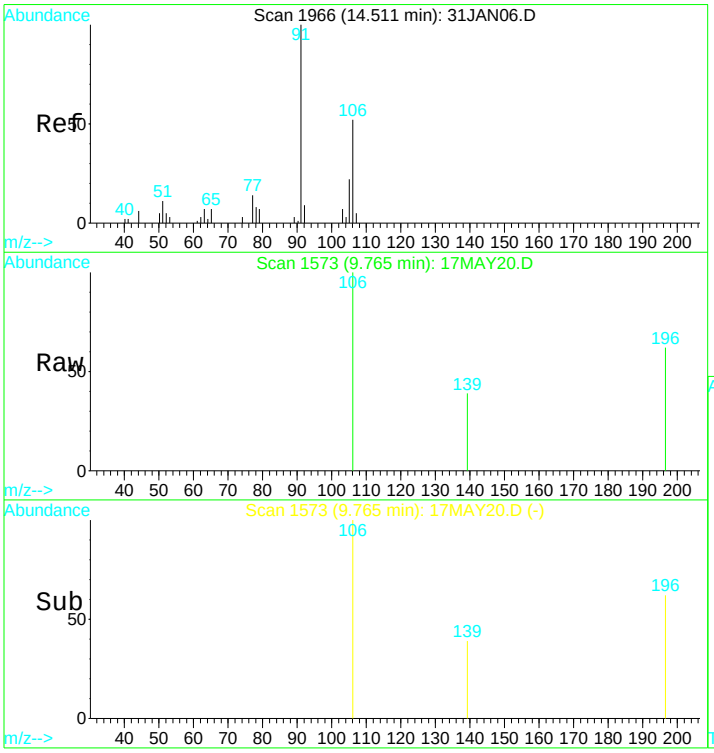


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion:119 Resp: 75547

Ion	Ratio	Lower	Upper
119	100		
117	307.8	213.6	396.6
82	162.5	119.2	221.4
54	66.9	49.4	91.8

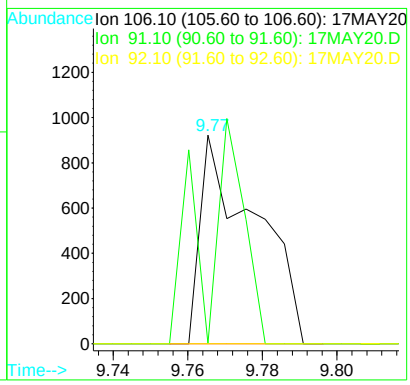


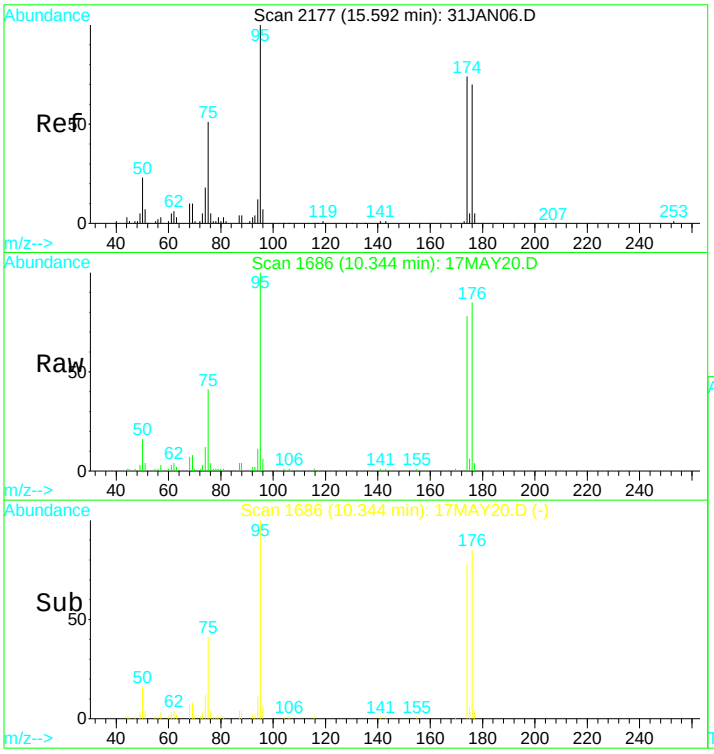


#43
P+m-Xylene
Concen: 0.06 ug/L
RT: 9.77 min Scan# 1573
Delta R.T. -0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion:106 Resp: 942

Ion	Ratio	Lower	Upper
106	100		
91	78.3	129.4	240.4#
92	0.0	7.8	14.6#

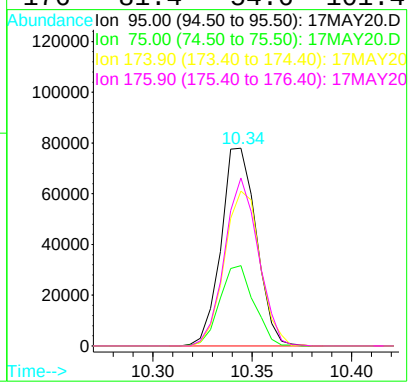


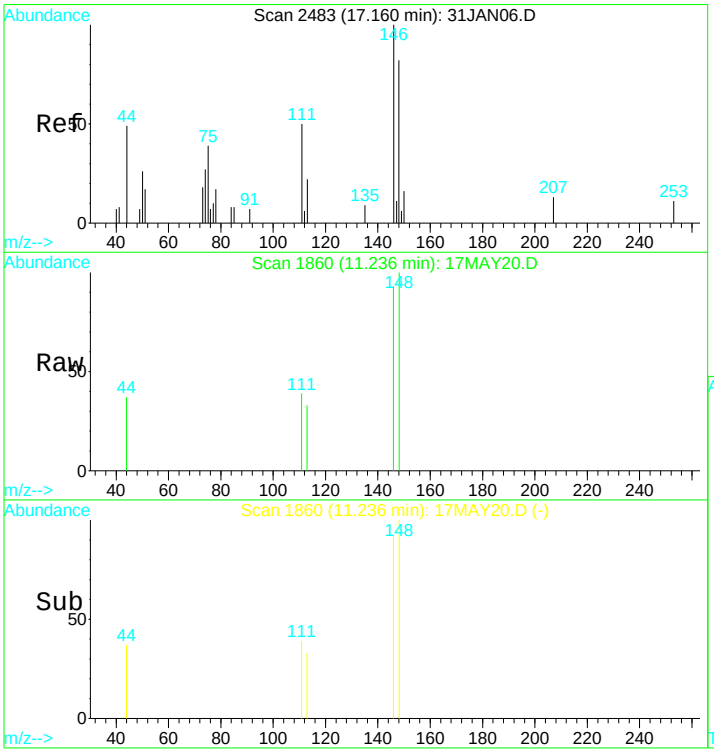


#49
Bromofluorobenzene SMC#3
Concen: Below ug/L
RT: 10.34 min Scan# 1686
Delta R.T. -0.00 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion: 95 Resp: 96083

Ion	Ratio	Lower	Upper
95	100		
75	39.4	29.0	53.8
174	79.1	55.8	103.6
176	81.4	54.6	101.4

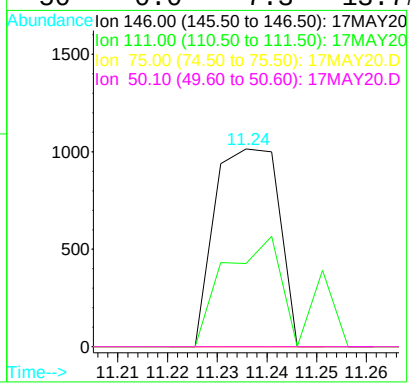




#63
1,2-Dichlorobenzene
Concen: 0.08 ug/L
RT: 11.24 min Scan# 1860
Delta R.T. -0.01 min
Lab File: 17MAY20.D
Acq: 17 May 2017 1:51 pm

Tgt Ion:146 Resp: 908

Ion	Ratio	Lower	Upper
146	100		
111	61.6	20.5	38.1#
75	0.0	17.8	33.1#
50	0.0	7.3	13.7#



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY20.D Vial: 20
Acq On : 17 May 2017 1:51 pm Operator: MGC
Sample : 1713059-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:32 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	199577	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	306917	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	75547	10.00	ug/L	0.00

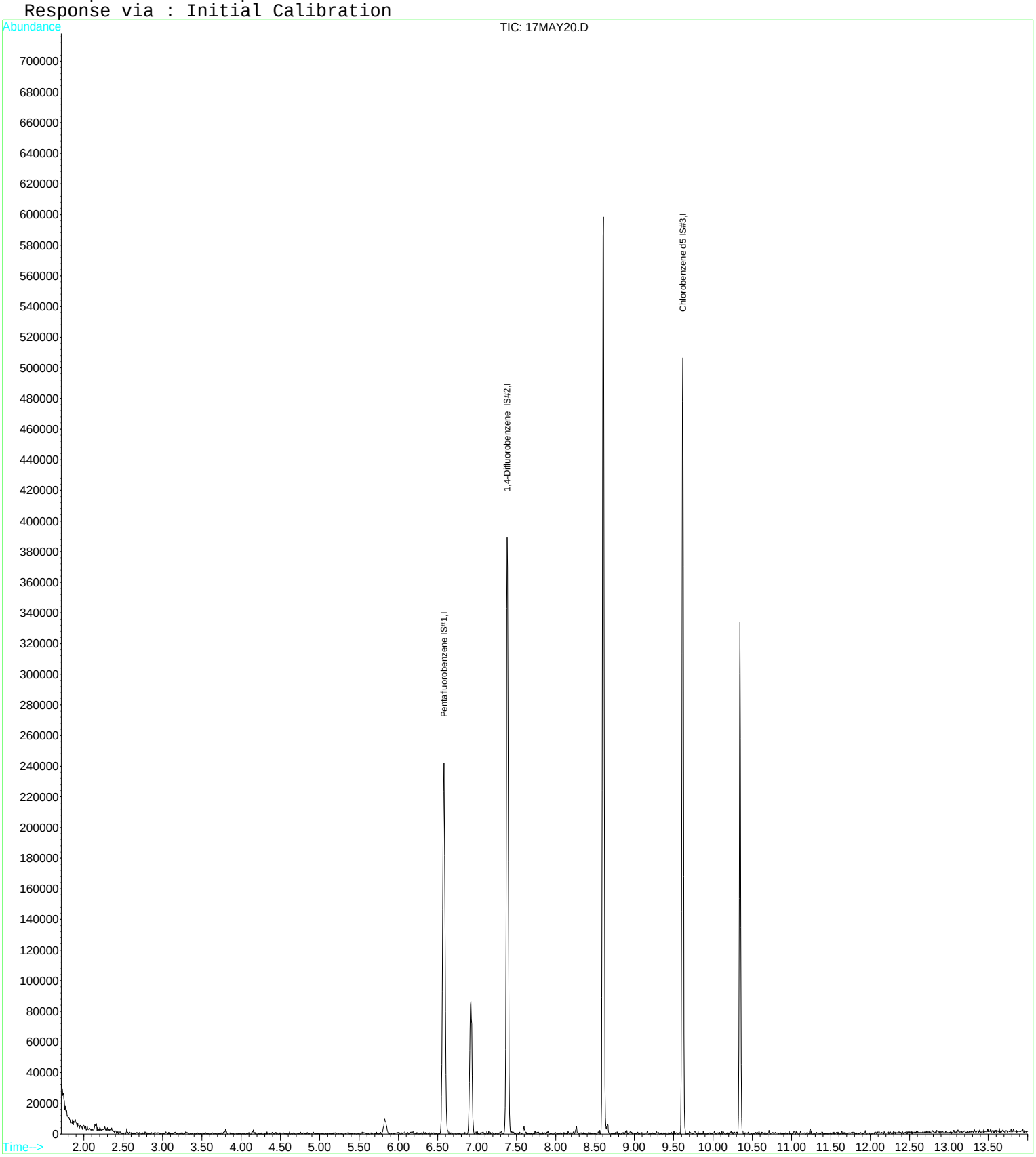
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY20.D Vial: 20
Acq On : 17 May 2017 1:51 pm Operator: MGC
Sample : 1713059-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:32 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY21.D Vial: 21
Acq On : 17 May 2017 2:14 pm Operator: MGC
Sample : 1713059-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 14:28 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191820	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	297575	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	76045	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	62412	9.89	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 98.90%			
31) Toluene d8 SMC#2	8.61	98	327125	9.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.60%			
49) Bromofluorobenzene SMC#3	10.34	95	99058	9.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.60%			

Target Compounds

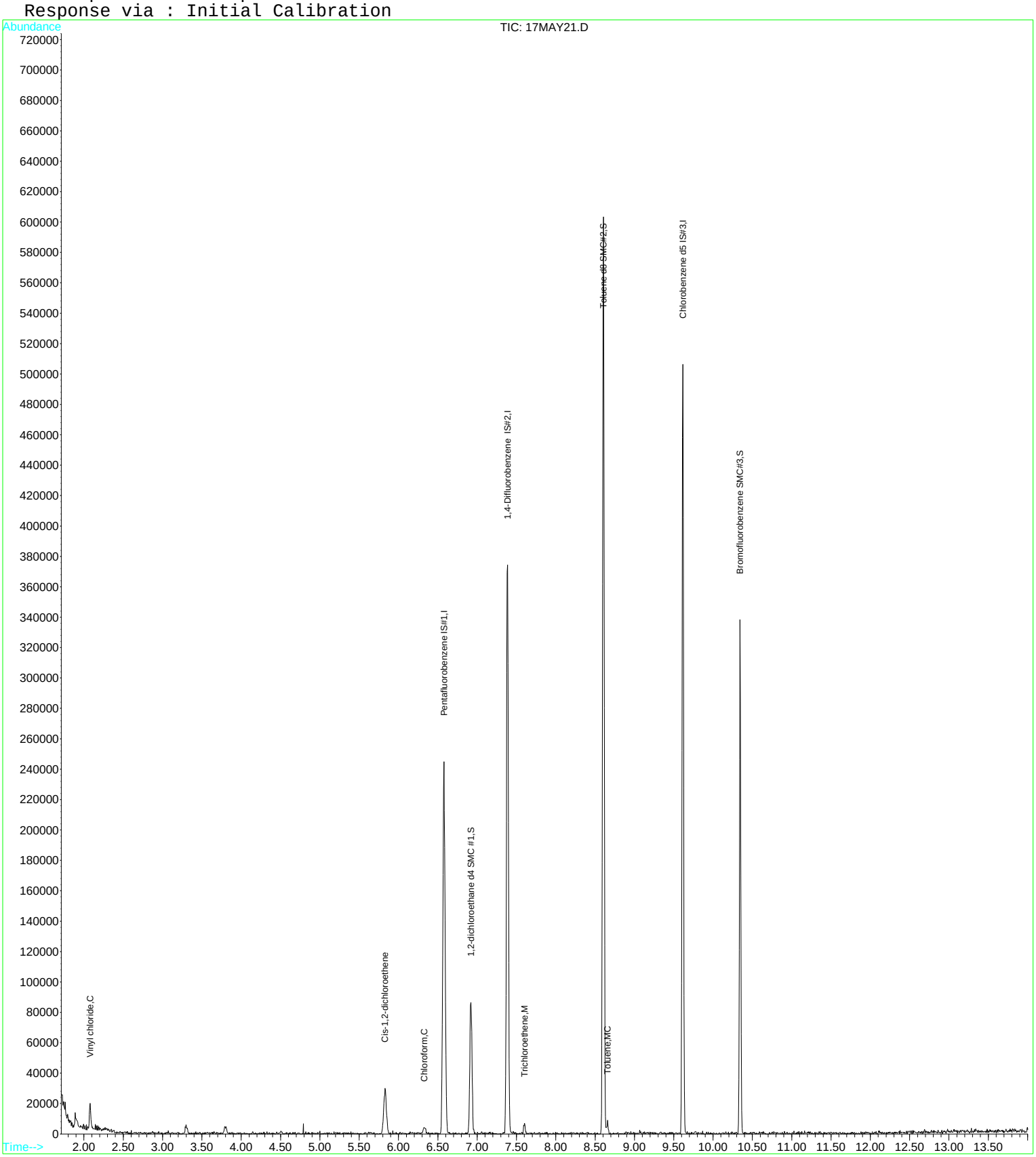
						Qvalue
4) Vinyl chloride	2.08	62	14321	1.15	ug/L	93
15) Cis-1,2-dichloroethene	5.83	96	16442	1.71	ug/L	93
17) Chloroform	6.33	83	4679	0.30	ug/L	99
25) Trichloroethene	7.61	130	1964	0.20	ug/L	89
32) Toluene	8.66	92	2484	0.11	ug/L	93

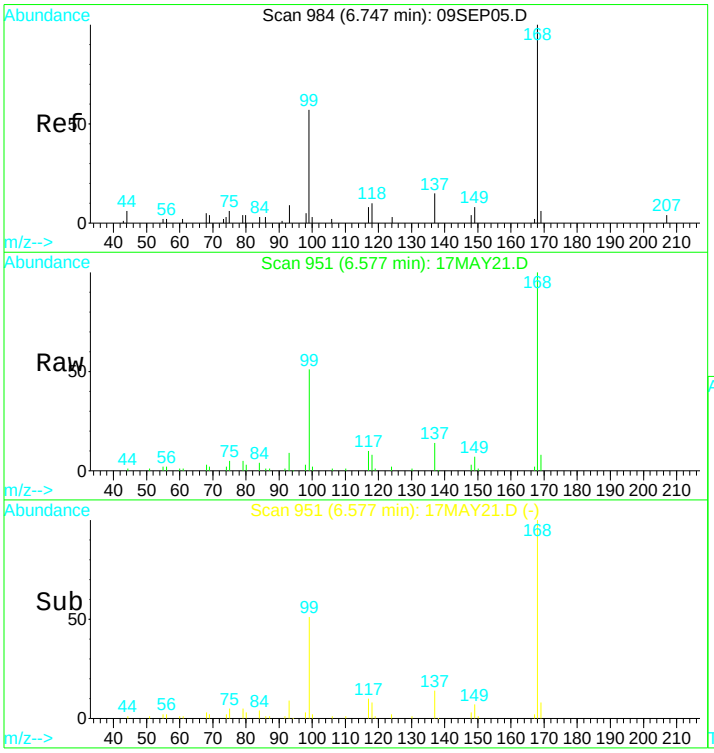
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY21.D Vial: 21
Acq On : 17 May 2017 2:14 pm Operator: MGC
Sample : 1713059-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 14:28 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

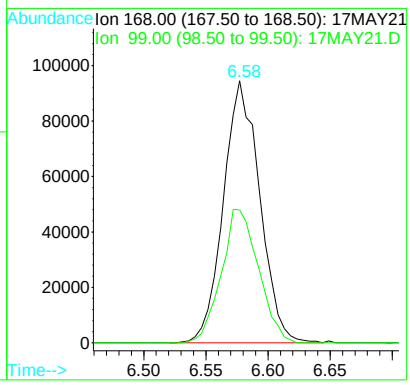


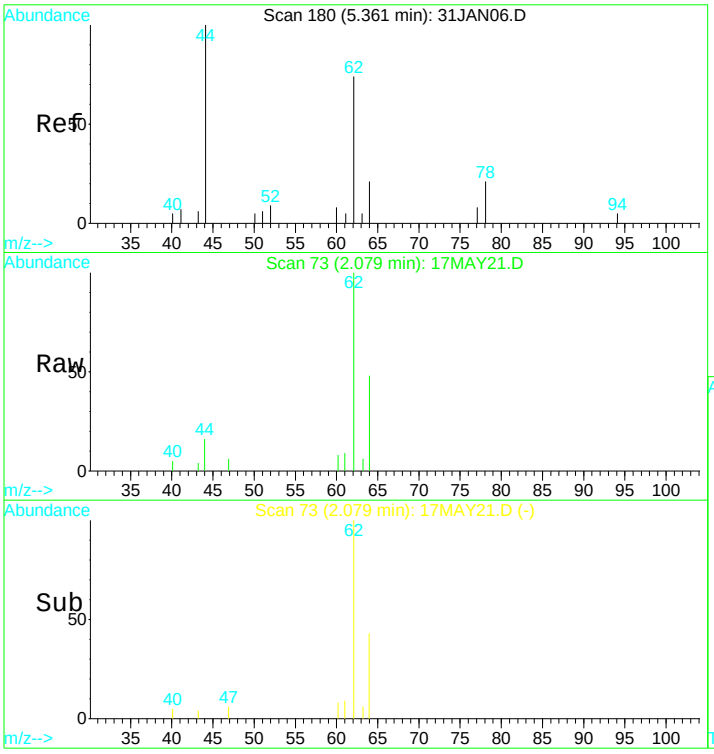


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. -0.01 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion:168 Resp: 191820

Ion	Ratio	Lower	Upper
168	100		
99	52.0	37.7	69.9

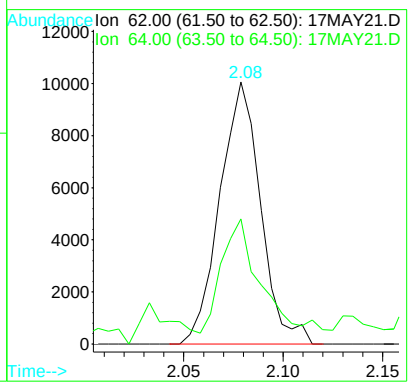


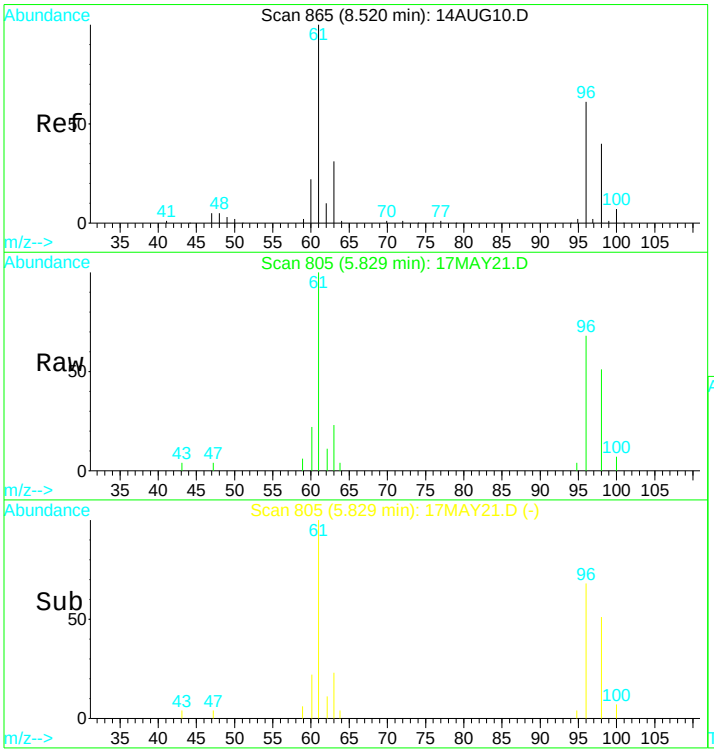


#4
Vinyl chloride
Concen: 1.15 ug/L
RT: 2.08 min Scan# 73
Delta R.T. 0.01 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion: 62 Resp: 14321

Ion	Ratio	Lower	Upper
62	100		
64	52.8	40.7	75.7

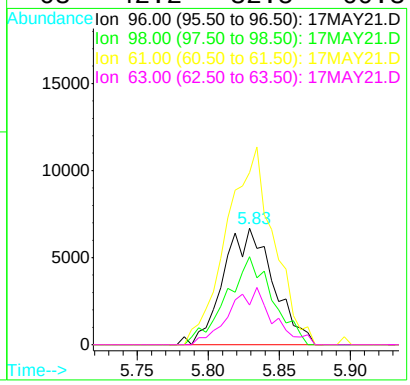


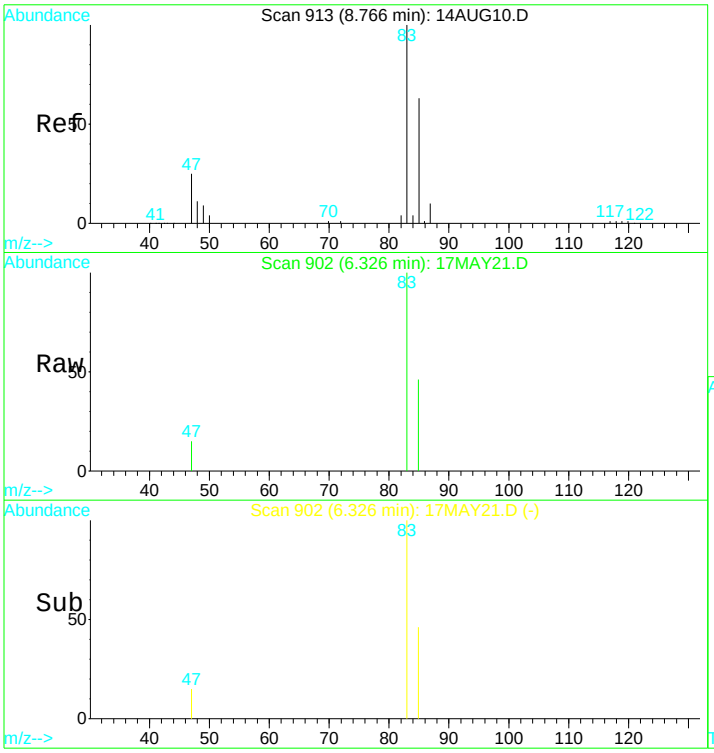


#15
Cis-1,2-dichloroethene
Concen: 1.71 ug/L
RT: 5.83 min Scan# 805
Delta R.T. -0.00 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion: 96 Resp: 16442

Ion	Ratio	Lower	Upper
96	100		
98	68.5	44.2	82.0
61	159.7	117.9	218.9
63	42.2	32.5	60.3

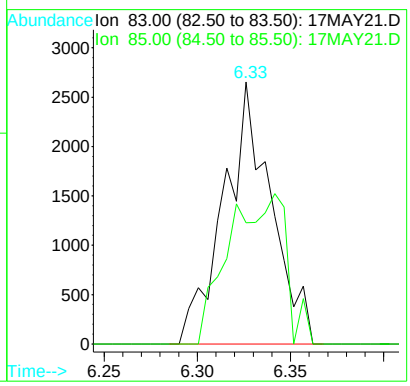


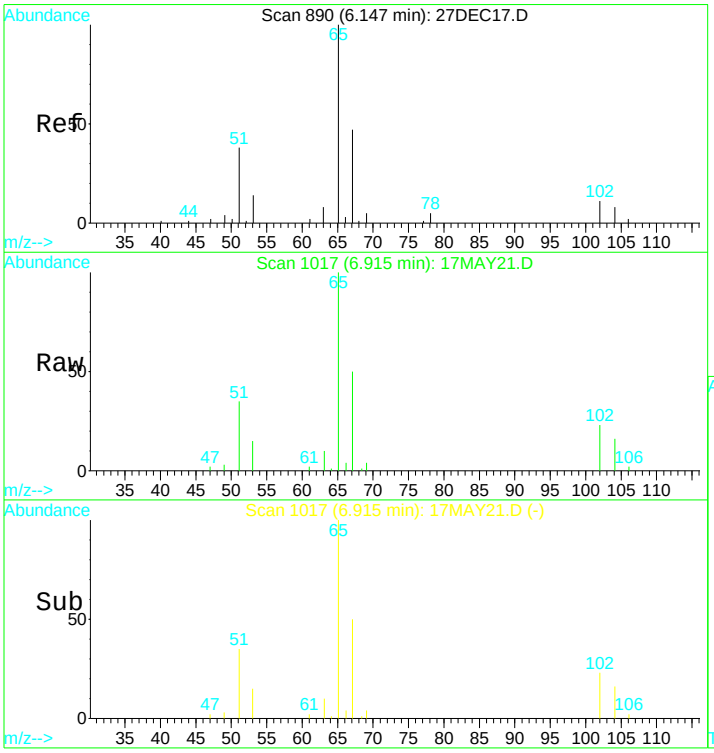


#17
Chloroform
Concen: 0.30 ug/L
RT: 6.33 min Scan# 902
Delta R.T. -0.00 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion: 83 Resp: 4679

Ion	Ratio	Lower	Upper
83	100		
85	70.3	48.4	89.8

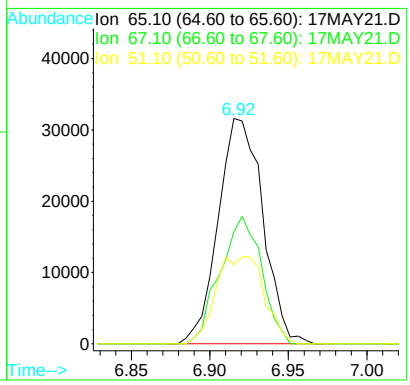


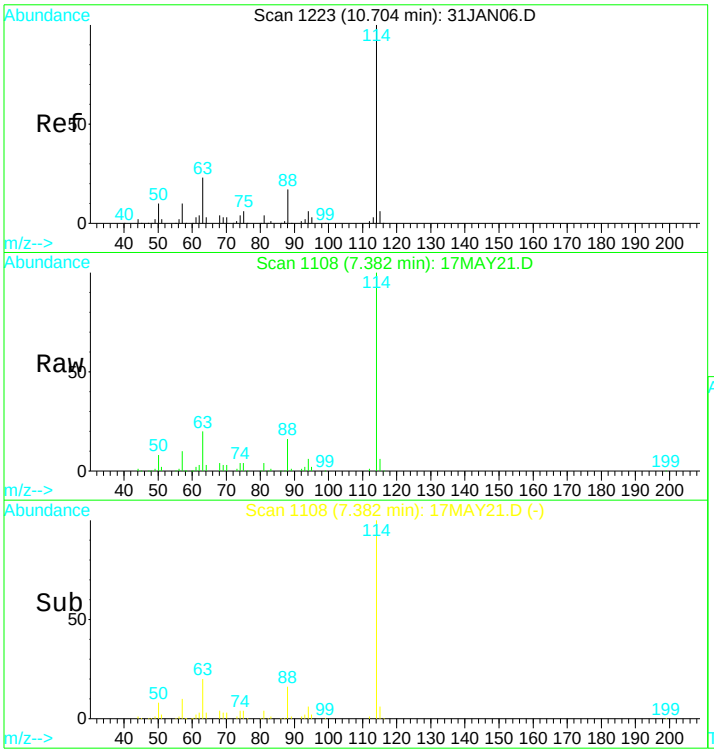


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. -0.00 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion: 65 Resp: 62412

Ion	Ratio	Lower	Upper
65	100		
67	52.6	34.4	63.8
51	42.3	33.2	61.7

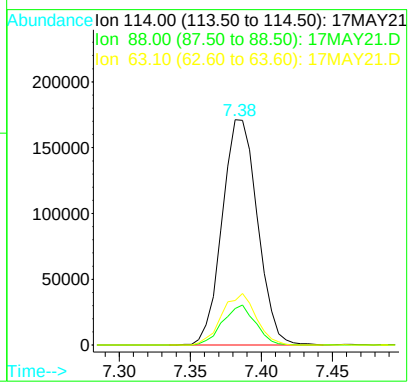


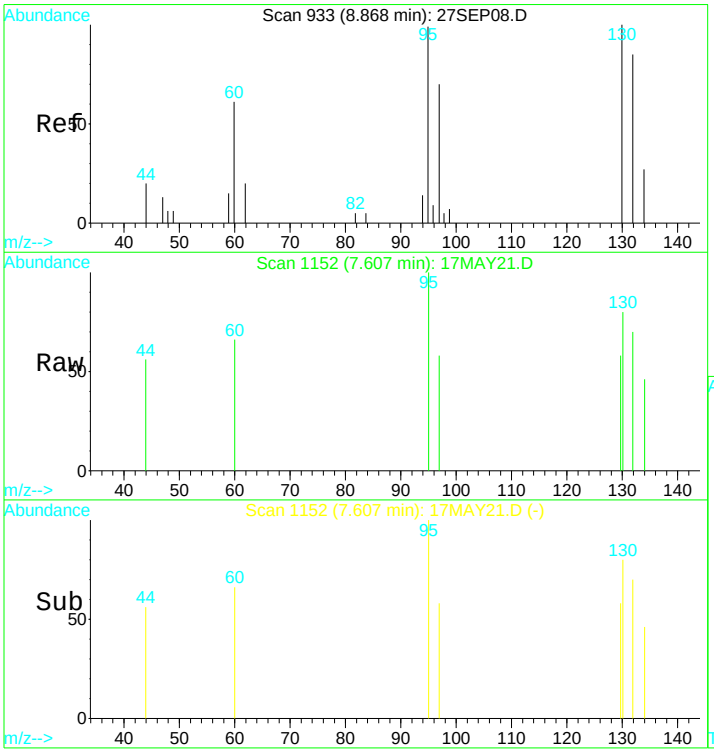


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. -0.01 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion:114 Resp: 297575

Ion	Ratio	Lower	Upper
114	100		
88	16.5	12.6	23.4
63	22.1	15.7	29.1

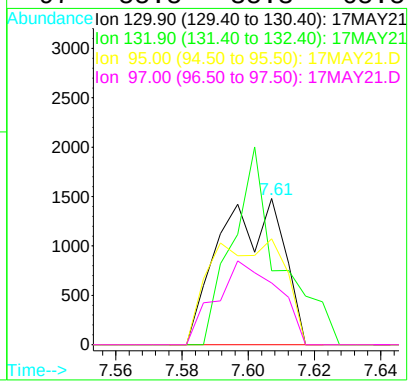


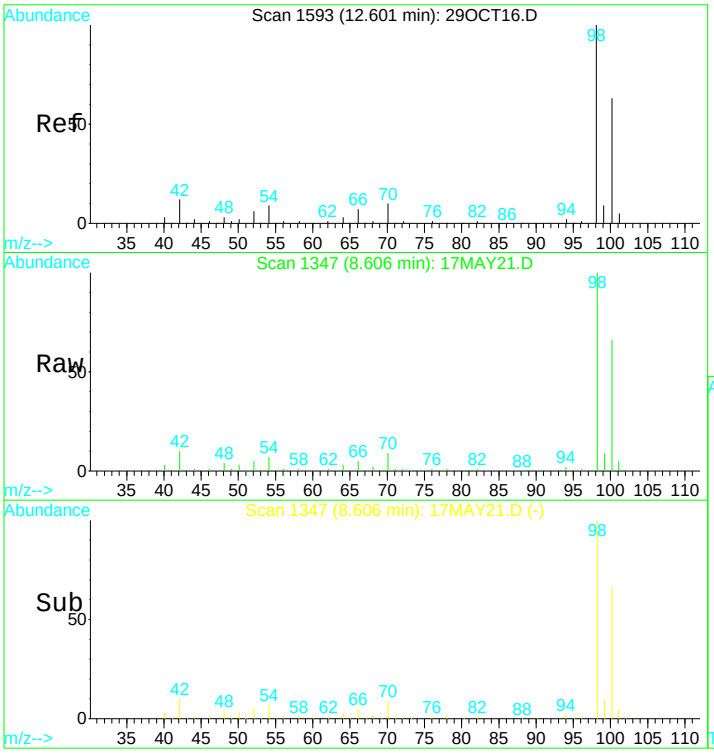


#25
Trichloroethene
Concen: 0.20 ug/L
RT: 7.61 min Scan# 1152
Delta R.T. 0.01 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion:130 Resp: 1964

Ion	Ratio	Lower	Upper
130	100		
132	99.6	62.4	115.8
95	82.9	67.5	125.4
97	55.5	35.3	65.5

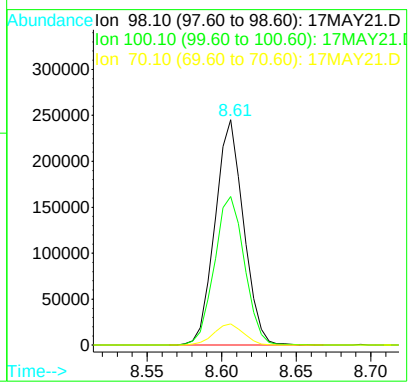


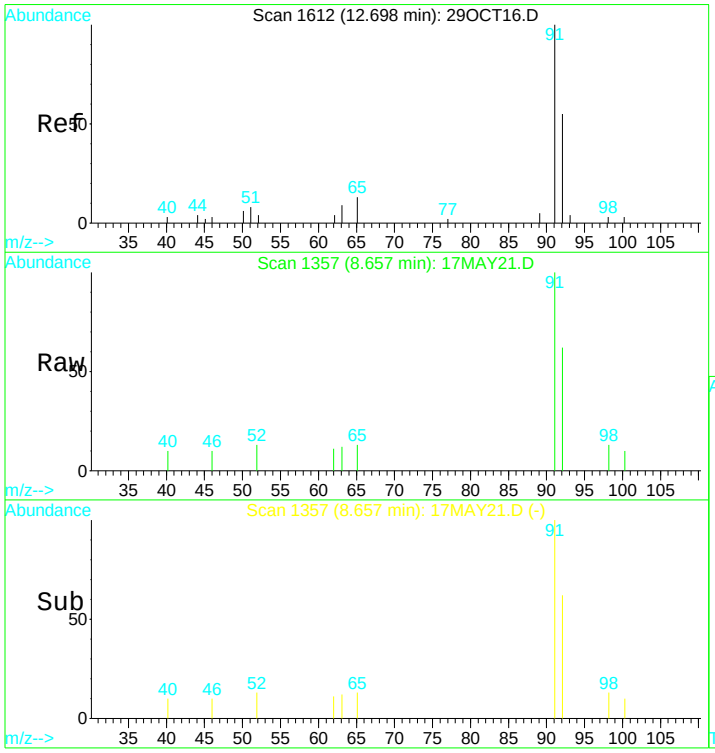


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.61 min Scan# 1347
Delta R.T. -0.00 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion: 98 Resp: 327125

Ion	Ratio	Lower	Upper
98	100		
100	69.7	48.7	90.5
70	9.9	7.4	13.8

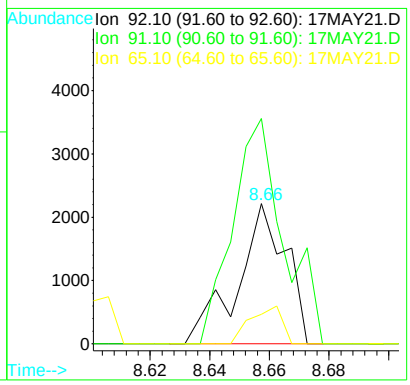


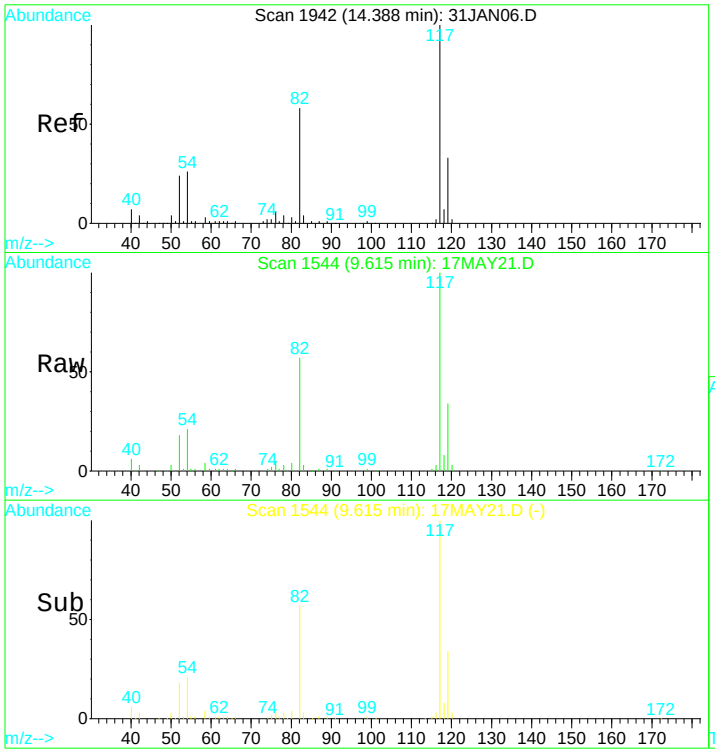


#32
Toluene
Concen: 0.11 ug/L
RT: 8.66 min Scan# 1357
Delta R.T. -0.00 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion: 92 Resp: 2484

Ion	Ratio	Lower	Upper
92	100		
91	169.7	125.4	233.0
65	17.8	16.6	30.8

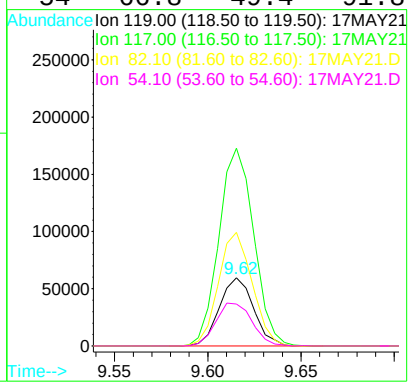


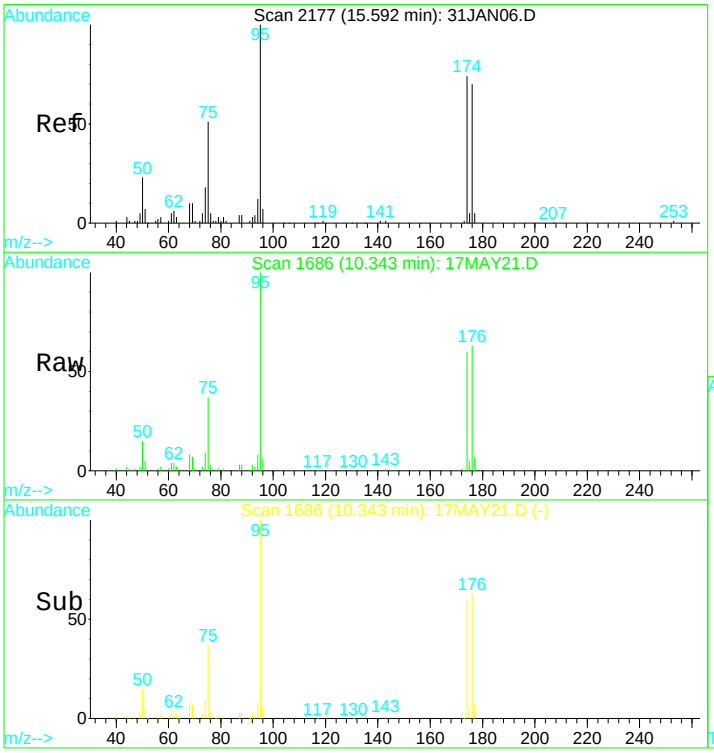


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. -0.00 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion:119 Resp: 76045

Ion	Ratio	Lower	Upper
119	100		
117	295.8	213.6	396.6
82	163.8	119.2	221.4
54	66.8	49.4	91.8

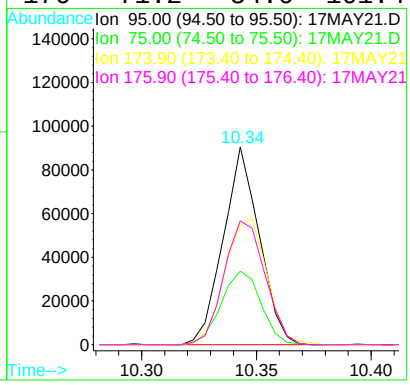




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. -0.01 min
Lab File: 17MAY21.D
Acq: 17 May 2017 2:14 pm

Tgt Ion: 95 Resp: 99058

Ion	Ratio	Lower	Upper
95	100		
75	41.2	29.0	53.8
174	73.9	55.8	103.6
176	71.2	54.6	101.4



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY21.D Vial: 21
Acq On : 17 May 2017 2:14 pm Operator: MGC
Sample : 1713059-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:33 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191820	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	297575	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	76045	10.00	ug/L	0.00

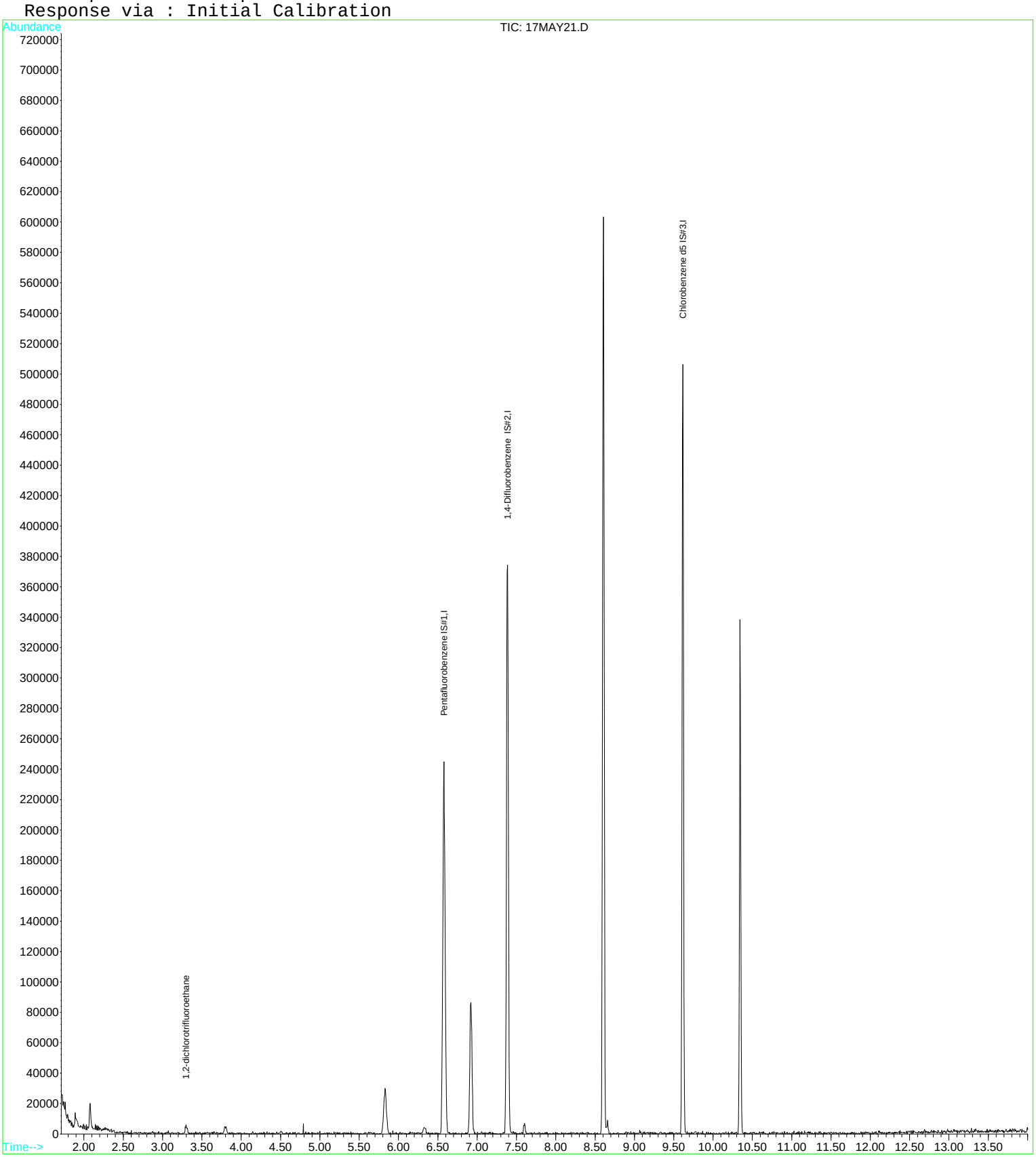
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	3562	0.32	ug/L	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY21.D Vial: 21
Acq On : 17 May 2017 2:14 pm Operator: MGC
Sample : 1713059-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:33 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Raw Data - Calibration Standards

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR04.D Vial: 4
Acq On : 13 Apr 2017 8:21 am Operator: MGC
Sample : 1706245-CAL1 Inst : MS-V5
Misc : 1 VO-108-69824;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:12 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	174858	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	249655	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	61173	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	58165	10.05	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 100.50%						
31) Toluene d8 SMC#2	8.61	98	276007	10.09	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.90%						
49) Bromofluorobenzene SMC#3	10.35	95	83232	10.59	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 105.90%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.75	85	2897	0.33	ug/L	93
3) Chloromethane	1.95	50	5553	0.46	ug/L	99
4) Vinyl chloride	2.08	62	5288	0.46	ug/L #	69
5) Bromomethane	2.43	94	2827	0.49	ug/L #	87
6) Chloroethane	2.57	64	3332	0.51	ug/L #	77
7) Trichlorofluoromethane	2.87	101	5245	0.42	ug/L	99
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	2674	0.39	ug/L #	36
9) 1,1-Dichloroethene	3.52	61	6747	0.44	ug/L #	95
10) Methylene chloride	4.15	84	3015	Below Cal		84
11) MTBE	4.48	73	5224	0.45	ug/L	99
12) T-1,2-dichloroethene	4.50	96	3668	0.44	ug/L	88
13) 1,1-Dichloroethane	5.05	63	8089	0.45	ug/L	93
14) 2,2-Dichloropropane	5.84	77	6489	0.50	ug/L	86
15) Cis-1,2-dichloroethene	5.83	96	4097	0.47	ug/L #	85
16) Bromochloromethane	6.18	128	861m	0.31	ug/L	
17) Chloroform	6.34	83	6958	0.49	ug/L #	1
18) 1,1,1-Trichloroethane	6.54	97	5269	0.39	ug/L #	49
19) 1,1-Dichloropropene	6.72	75	5121	0.45	ug/L	96
20) Carbon tetrachloride	6.71	119	3849	0.42	ug/L #	73
22) 1,2-Dichloroethane	7.02	62	3367	0.44	ug/L #	88
23) Benzene	6.94	78	15948	0.47	ug/L	89
25) Trichloroethene	7.60	130	4144	0.47	ug/L	94
26) 1,2-Dichloropropane	7.83	63	3503	0.40	ug/L	85
27) Dibromomethane	7.91	93	964	0.39	ug/L #	50
28) Bromodichloromethane	8.06	83	3188	0.38	ug/L	88
29) 2-ceve	8.28	63	3301	1.68	ug/L	94
30) Cis-1,3-dichloropropene	8.41	75	5167	0.50	ug/L #	89
32) Toluene	8.66	92	9087	0.46	ug/L	95
33) Trans-1,3-dichloropropene	8.82	75	2940	0.41	ug/L	86
34) 1,1,2-Trichloroethane	8.98	97	1536	0.39	ug/L #	78
35) Tetrachloroethene (PCE)	9.03	166	4079	0.45	ug/L	96
36) 1,3-Dichloropropane	9.08	76	2625	0.41	ug/L #	81
37) Dibromochloromethane	9.24	129	1752	0.40	ug/L #	97
38) 1,2-Dibromoethane	9.32	107	1749	0.48	ug/L #	57
40) Chlorobenzene	9.64	112	7689	0.44	ug/L	94
41) 1,1,1,2-Tetrachloroethane	9.68	131	2165	0.39	ug/L	74
42) Ethylbenzene	9.69	106	5107	0.45	ug/L	93
43) P+m-Xylene	9.77	106	13631	1.03	ug/L	87
44) O-Xylene	10.01	106	6627	0.50	ug/L	96
45) Styrene	10.02	104	8954	0.50	ug/L	83
46) Bromoform	10.16	173	809	Below Cal	#	96
47) Isopropylbenzene	10.23	105	16616	0.03	ug/L	91
48) 1,1,2,2-Tetrachloroethane	10.41	83	1017	0.34	ug/L #	67
50) 1,2,3-Trichloropropane	10.44	110	375	0.51	ug/L #	100
51) n-propylbenzene	10.47	91	17999	0.51	ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR04.D Vial: 4
Acq On : 13 Apr 2017 8:21 am Operator: MGC
Sample : 1706245-CAL1 Inst : MS-V5
Misc : 1 VO-108-69824;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:12 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

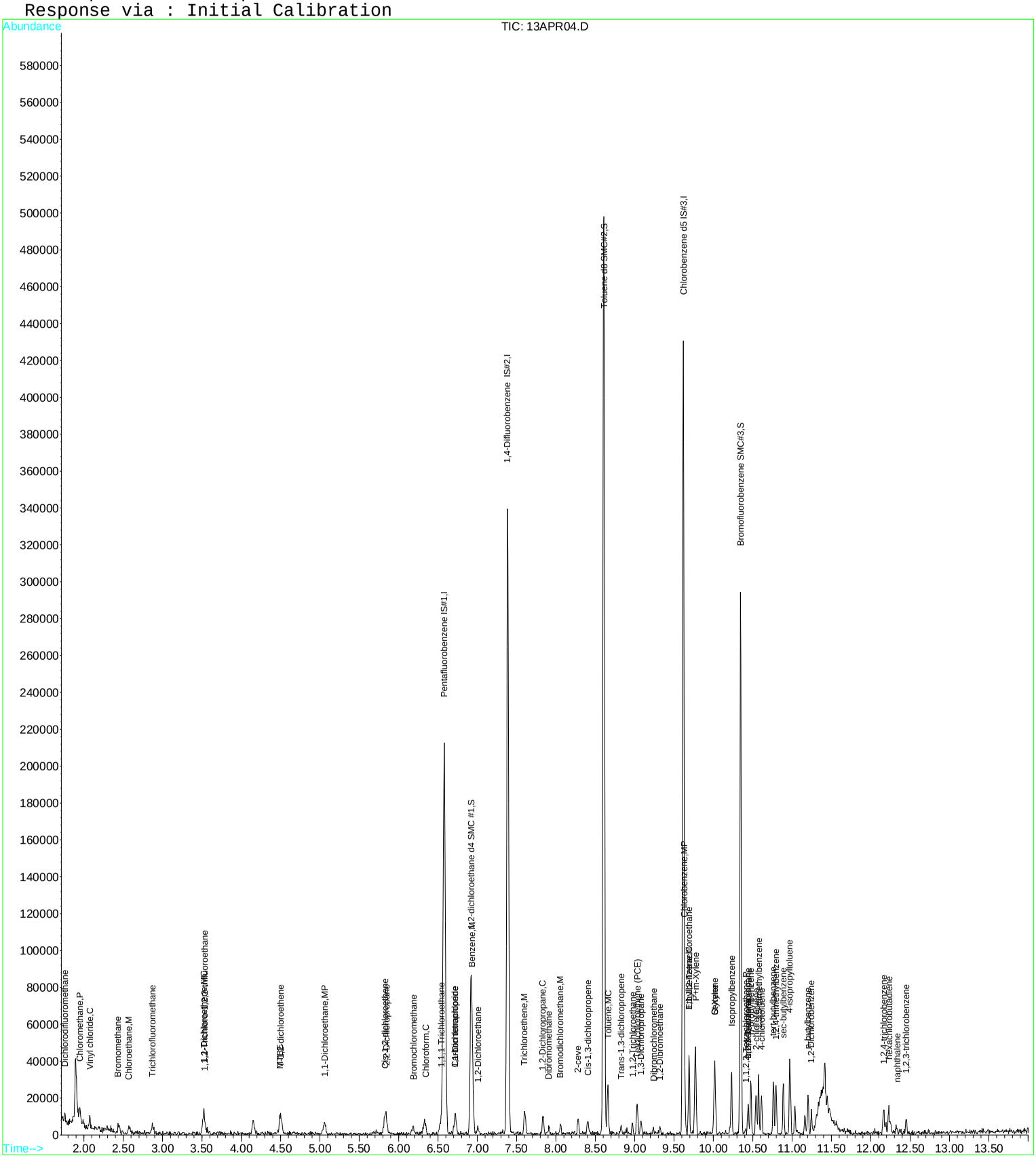
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	bromobenzene	10.44	156	3022	0.46 ug/L	79
53)	1,3,5-trimethylbenzene	10.58	105	11427	0.46 ug/L	92
54)	2-chlorotoluene	10.55	91	12881	0.27 ug/L	100
55)	4-chlorotoluene	10.61	91	9278	0.08 ug/L	91
56)	tert-butylbenzene	10.76	119	14304	0.54 ug/L	91
57)	1,2,4-trimethylbenzene	10.80	105	11332	0.48 ug/L	97
58)	sec-butylbenzene	10.89	105	15613	0.47 ug/L	90
59)	4-isopropyltoluene	10.97	119	13752	0.53 ug/L	95
60)	1,3-Dichlorobenzene	10.98	146	6052	Below Cal #	89
61)	1,4-Dichlorobenzene	11.04	146	4895	Below Cal #	84
62)	n-butylbenzene	11.21	91	9633	0.47 ug/L #	91
63)	1,2-Dichlorobenzene	11.25	146	5234	0.53 ug/L #	73
64)	Hexachloroethane	11.41	117	1497	Below Cal #	68
66)	1,2,4-trichlorobenzene	12.16	180	3783	0.54 ug/L	96
67)	hexachlorobutadiene	12.23	225	2630	0.22 ug/L #	89
68)	naphthalene	12.33	128	4014	1.41 ug/L	100
69)	1,2,3-trichlorobenzene	12.45	180	2839	0.49 ug/L #	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR04.D Vial: 4
Acq On : 13 Apr 2017 8:21 am Operator: MGC
Sample : 1706245-CAL1 Inst : MS-V5
Misc : 1 VO-108-69824;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:12 2017 Quant Results File: 82605.RES

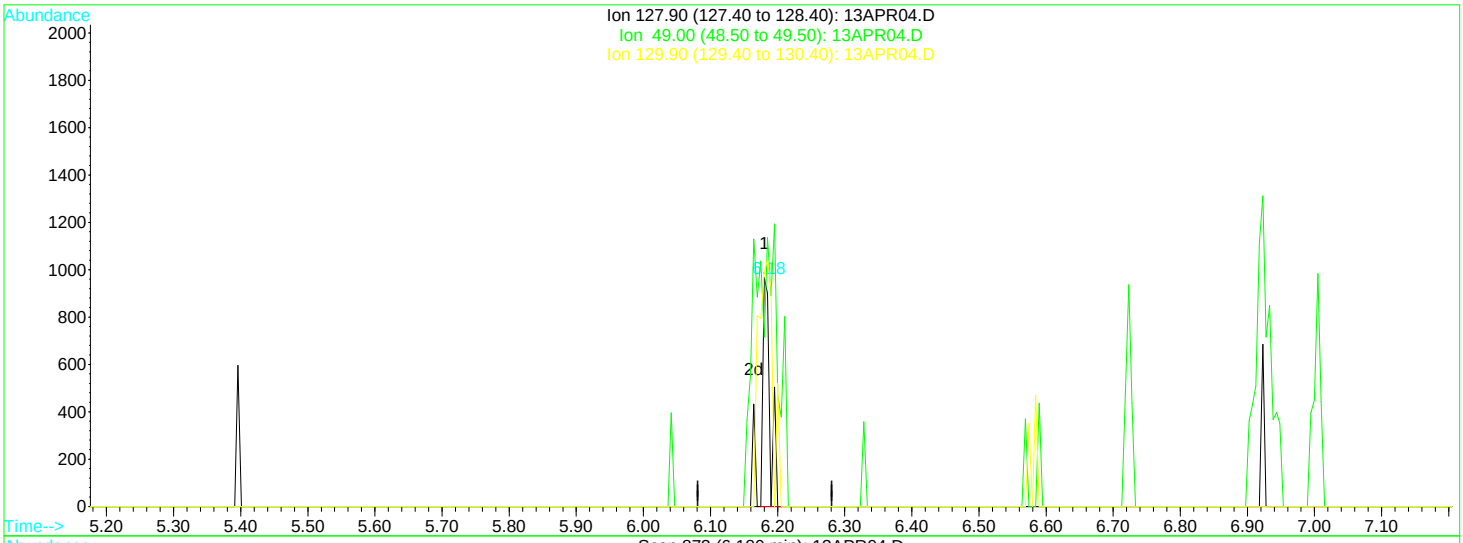
Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration

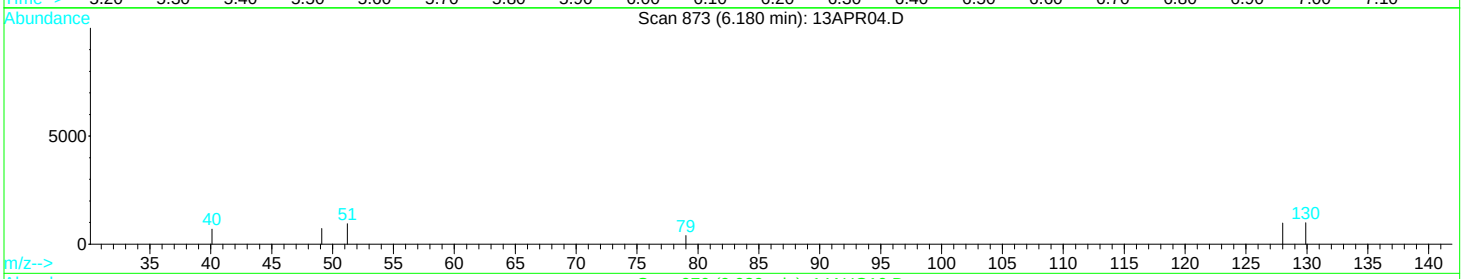


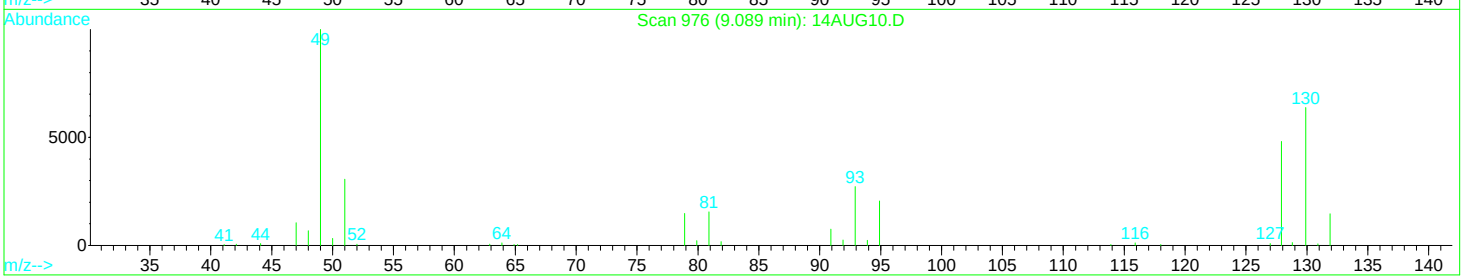
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR04.D Vial: 4
Acq On : 13 Apr 2017 8:21 am Operator: MGC
Sample : 1706245-CAL1 Inst : MS-V5
Misc : 1 VO-108-69824;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 8:35 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:12:12 2017
Response via : Multiple Level Calibration







TIC: 13APR04.D

(16) Bromochloromethane

6.18min 0.26ug/L

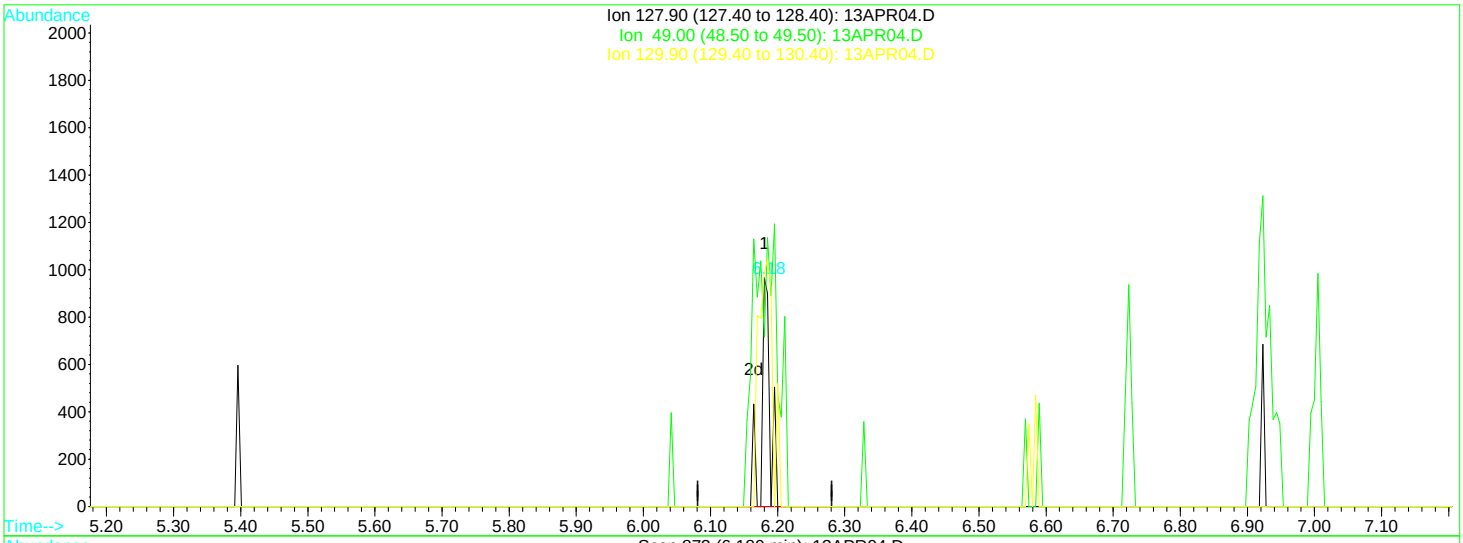
response 728

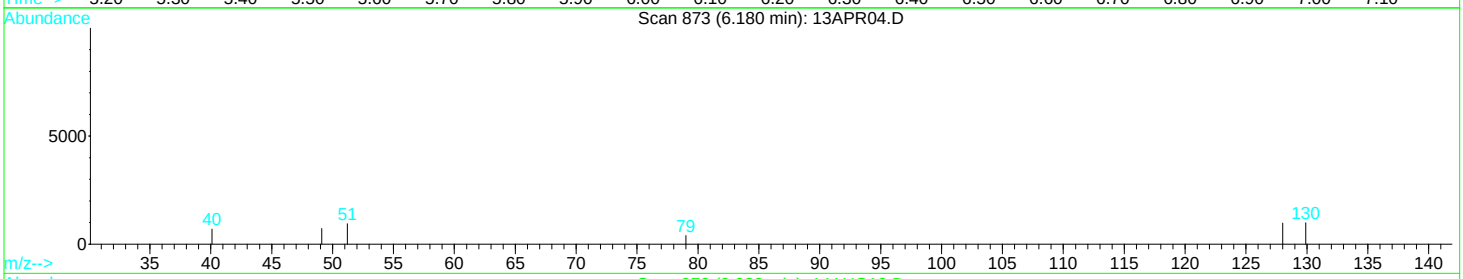
Ion	Exp%	Act%
127.90	100	100
49.00	317.10	205.36#
129.90	139.30	214.42#
0.00	0.00	0.00

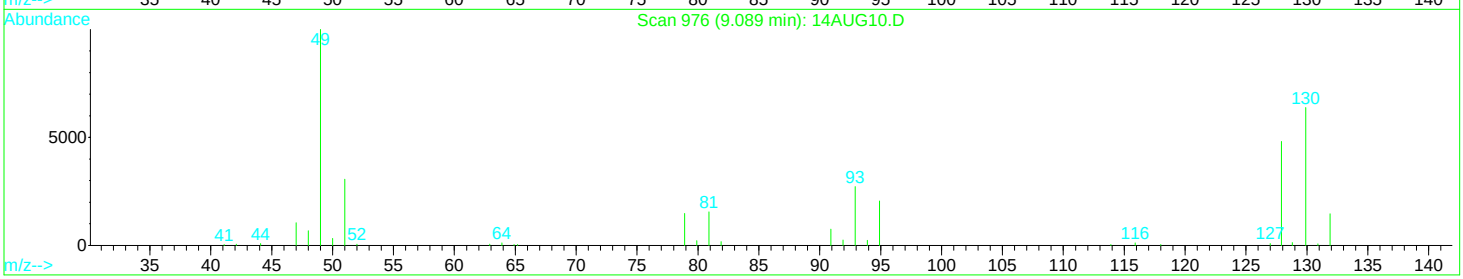
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR04.D Vial: 4
Acq On : 13 Apr 2017 8:21 am Operator: MGC
Sample : 1706245-CAL1 Inst : MS-V5
Misc : 1 VO-108-69824;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:12 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:12:12 2017
Response via : Multiple Level Calibration







TIC: 13APR04.D

(16) Bromochloromethane

6.18min 0.31ug/L m

response 861

Ion	Exp%	Act%
127.90	100	100
49.00	317.10	173.64#
129.90	139.30	181.30#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR05.D Vial: 5
Acq On : 13 Apr 2017 8:44 am Operator: MGC
Sample : 1706245-CAL2 Inst : MS-V5
Misc : 1 VO-108-69825;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:31 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	167295	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	244919	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	61313	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	57006	10.29	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 102.90%						
31) Toluene d8 SMC#2	8.61	98	275619	10.27	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 102.70%						
49) Bromofluorobenzene SMC#3	10.35	95	80795	10.26	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 102.60%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	7501	0.89	ug/L	89
3) Chloromethane	1.95	50	12202	1.06	ug/L	89
4) Vinyl chloride	2.08	62	11823	1.06	ug/L #	77
5) Bromomethane	2.45	94	6526	1.17	ug/L #	87
6) Chloroethane	2.56	64	6446	1.03	ug/L	90
7) Trichlorofluoromethane	2.87	101	10752	0.91	ug/L	88
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	7379	1.13	ug/L #	57
9) 1,1-Dichloroethene	3.52	61	14767	1.01	ug/L #	91
10) Methylene chloride	4.16	84	6439	Below Cal	#	77
11) MTBE	4.48	73	9116	0.83	ug/L #	83
12) T-1,2-dichloroethene	4.50	96	8527	1.07	ug/L	92
13) 1,1-Dichloroethane	5.05	63	19248	1.11	ug/L	87
14) 2,2-Dichloropropane	5.84	77	12677	1.02	ug/L	94
15) Cis-1,2-dichloroethene	5.83	96	9824	1.17	ug/L #	85
16) Bromochloromethane	6.19	128	2713m	1.02	ug/L	
17) Chloroform	6.33	83	15815	1.17	ug/L #	5
18) 1,1,1-Trichloroethane	6.53	97	12714	0.99	ug/L #	69
19) 1,1-Dichloropropene	6.72	75	11143	1.02	ug/L	92
20) Carbon tetrachloride	6.72	119	8510	0.96	ug/L	89
22) 1,2-Dichloroethane	7.01	62	7524	1.03	ug/L #	91
23) Benzene	6.95	78	35271	1.09	ug/L #	48
25) Trichloroethene	7.60	130	8932	1.04	ug/L	93
26) 1,2-Dichloropropane	7.84	63	9267	1.09	ug/L	88
27) Dibromomethane	7.91	93	2112	0.88	ug/L	86
28) Bromodichloromethane	8.06	83	6981	0.85	ug/L #	79
29) 2-ceve	8.28	63	5649	2.93	ug/L #	91
30) Cis-1,3-dichloropropene	8.40	75	9551	0.95	ug/L	91
32) Toluene	8.66	92	18971	0.98	ug/L	98
33) Trans-1,3-dichloropropene	8.83	75	7151	1.01	ug/L	87
34) 1,1,2-Trichloroethane	8.97	97	3670	0.95	ug/L	90
35) Tetrachloroethene (PCE)	9.03	166	9583	1.07	ug/L	86
36) 1,3-Dichloropropane	9.08	76	6724	1.07	ug/L #	76
37) Dibromochloromethane	9.23	129	3552	0.83	ug/L #	81
38) 1,2-Dibromoethane	9.32	107	2959	0.83	ug/L #	41
40) Chlorobenzene	9.64	112	19615	1.11	ug/L #	76
41) 1,1,1,2-Tetrachloroethane	9.70	131	5839	1.04	ug/L	93
42) Ethylbenzene	9.69	106	11940	1.06	ug/L	99
43) P+m-Xylene	9.77	106	27942	2.10	ug/L	93
44) O-Xylene	10.01	106	13796	1.05	ug/L	85
45) Styrene	10.02	104	19573	1.09	ug/L	87
46) Bromoform	10.15	173	1337	Below Cal	#	34
47) Isopropylbenzene	10.23	105	35105	0.61	ug/L	95
48) 1,1,2,2-Tetrachloroethane	10.41	83	3106	1.04	ug/L	78
50) 1,2,3-Trichloropropane	10.45	110	741	1.01	ug/L #	100
51) n-propylbenzene	10.47	91	36637	1.04	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR05.D Vial: 5
Acq On : 13 Apr 2017 8:44 am Operator: MGC
Sample : 1706245-CAL2 Inst : MS-V5
Misc : 1 VO-108-69825;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:31 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

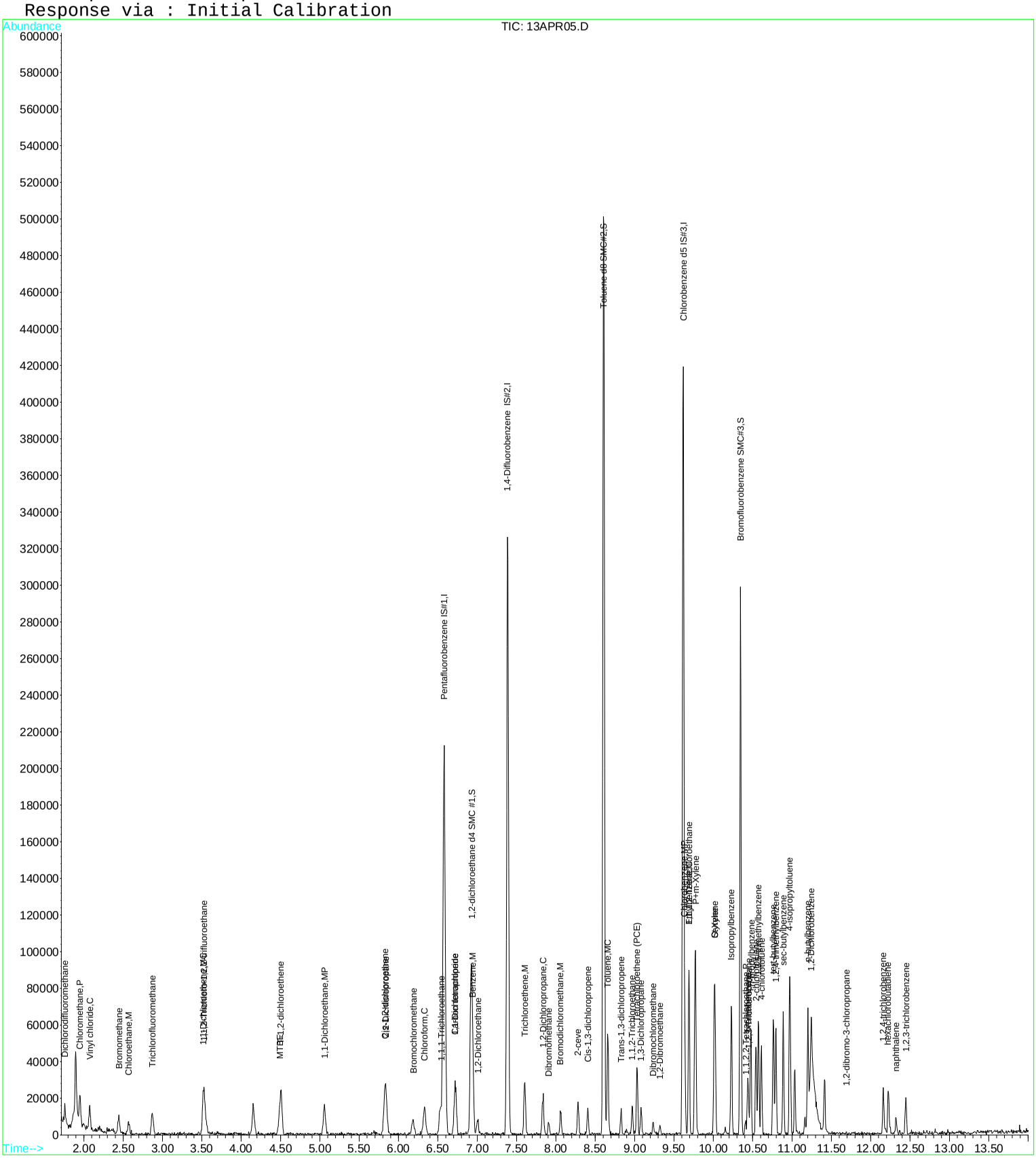
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
52)	bromobenzene	10.44	156	6746	1.03 ug/L		85
53)	1,3,5-trimethylbenzene	10.58	105	27914	1.11 ug/L		95
54)	2-chlorotoluene	10.54	91	24583	0.79 ug/L		90
55)	4-chlorotoluene	10.61	91	21964	0.70 ug/L		99
56)	tert-butylbenzene	10.76	119	25263	0.96 ug/L		85
57)	1,2,4-trimethylbenzene	10.80	105	26265	1.12 ug/L		89
58)	sec-butylbenzene	10.89	105	35965	1.09 ug/L		97
59)	4-isopropyltoluene	10.97	119	27206	1.04 ug/L		100
60)	1,3-Dichlorobenzene	10.98	146	11946m	Below Cal		
61)	1,4-Dichlorobenzene	11.04	146	12343	Below Cal		93
62)	n-butylbenzene	11.20	91	24190	1.17 ug/L	#	84
63)	1,2-Dichlorobenzene	11.24	146	10183	1.04 ug/L	#	79
64)	Hexachloroethane	11.41	117	3112	Below Cal	#	67
65)	1,2-dibromo-3-chloropropan	11.69	75	109	1.52 ug/L	#	6
66)	1,2,4-trichlorobenzene	12.16	180	7445	1.05 ug/L		97
67)	hexachlorobutadiene	12.22	225	4696	0.67 ug/L		91
68)	naphthalene	12.32	128	7562	1.81 ug/L		100
69)	1,2,3-trichlorobenzene	12.45	180	5829	1.01 ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR05.D Vial: 5
Acq On : 13 Apr 2017 8:44 am Operator: MGC
Sample : 1706245-CAL2 Inst : MS-V5
Misc : 1 VO-108-69825;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:31 2017 Quant Results File: 82605.RES

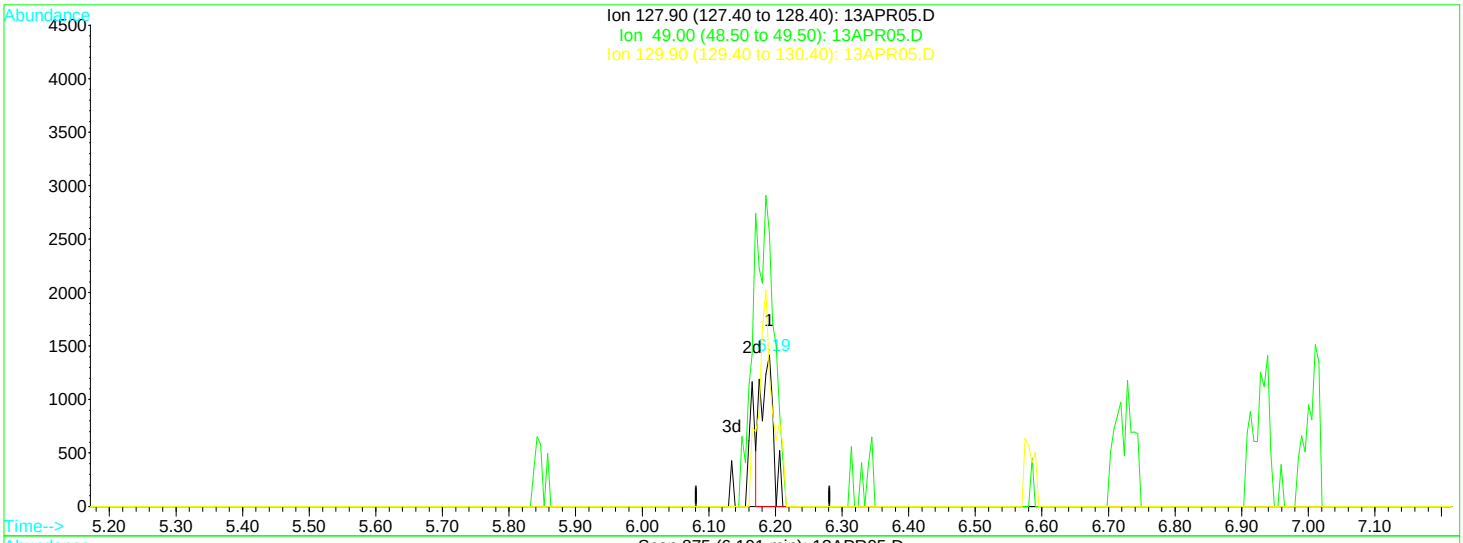
Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration

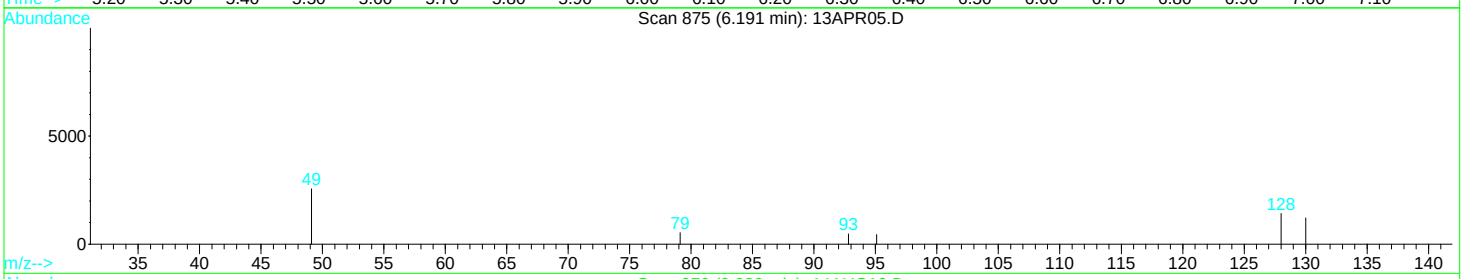


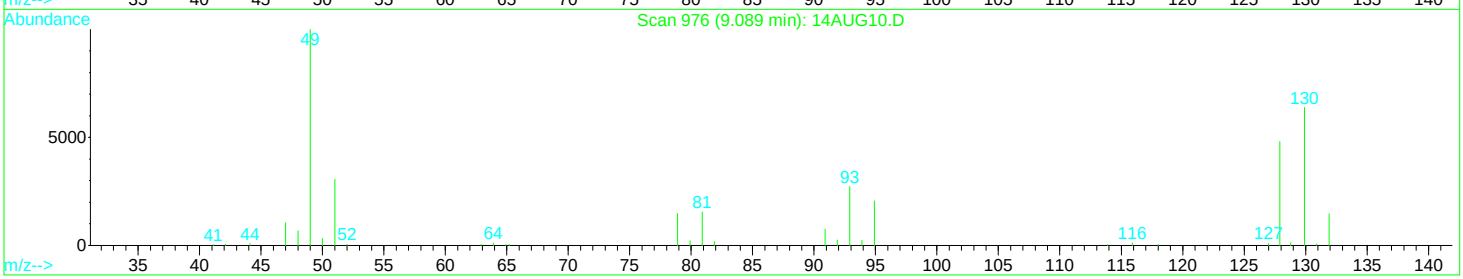
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR05.D Vial: 5
Acq On : 13 Apr 2017 8:44 am Operator: MGC
Sample : 1706245-CAL2 Inst : MS-V5
Misc : 1 VO-108-69825;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 8:58 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Multiple Level Calibration







TIC: 13APR05.D

(16) Bromochloromethane

6.19min 0.70ug/L

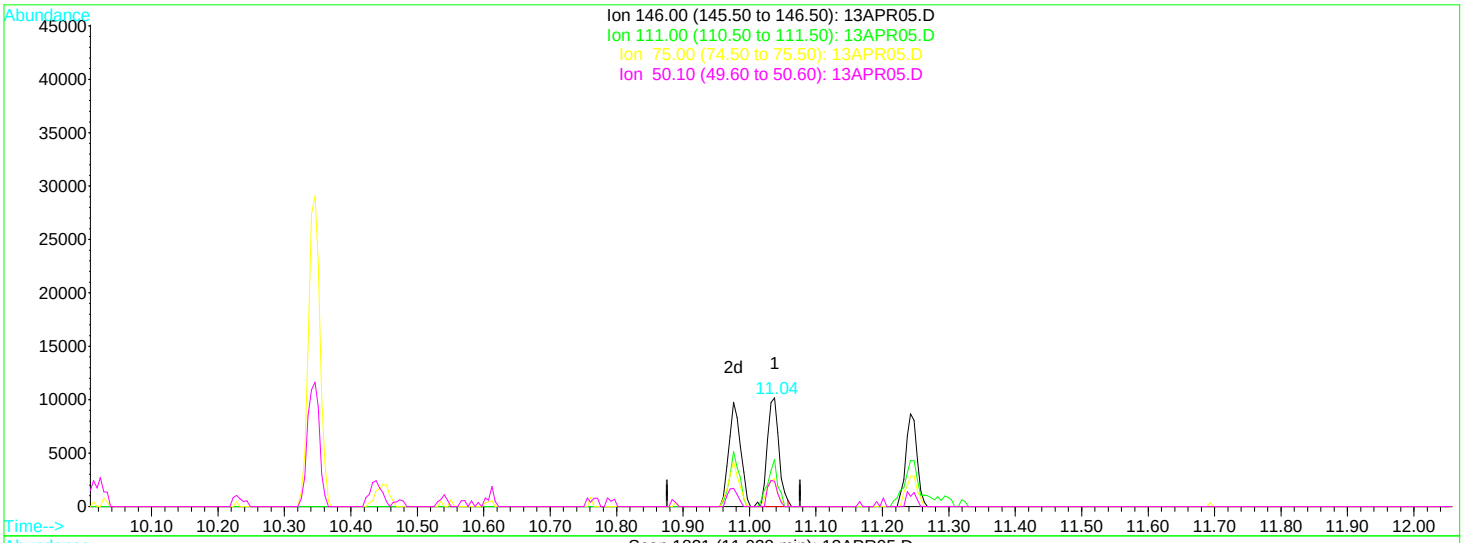
response 1874

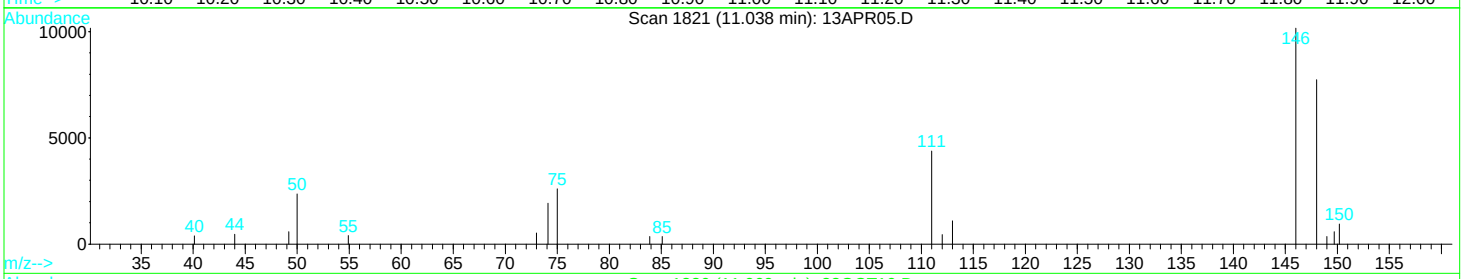
Ion	Exp%	Act%
127.90	100	100
49.00	317.10	338.95
129.90	139.30	165.05
0.00	0.00	0.00

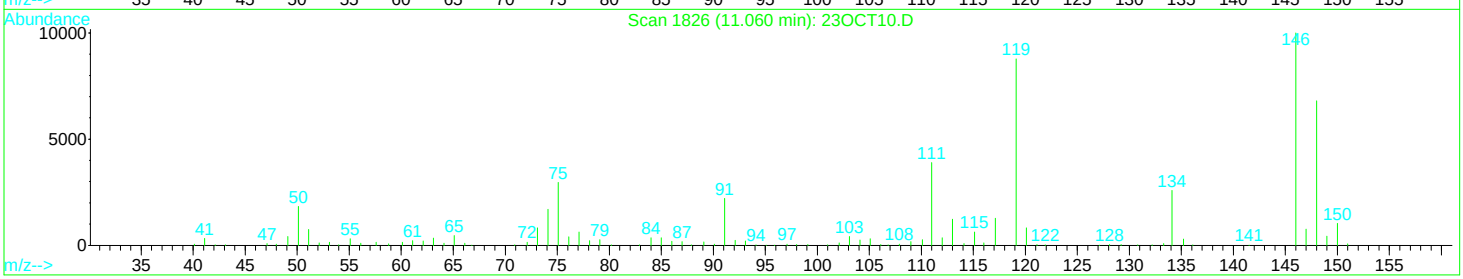
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR05.D Vial: 5
Acq On : 13 Apr 2017 8:44 am Operator: MGC
Sample : 1706245-CAL2 Inst : MS-V5
Misc : 1 VO-108-69825;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:31 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Multiple Level Calibration







TIC: 13APR05.D

(60) 1,3-Dichlorobenzene

11.04min -1.95ug/L

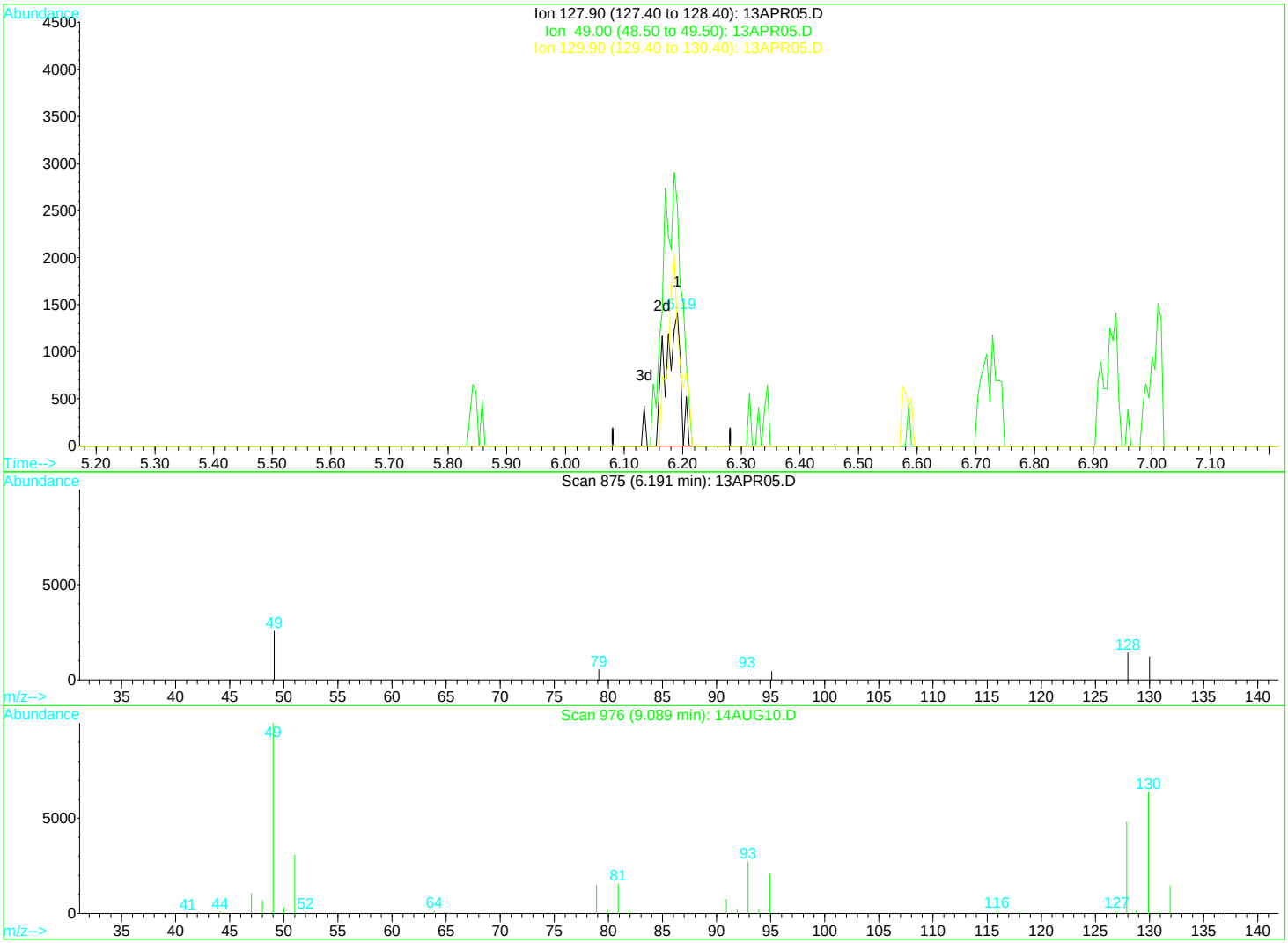
response 12342

Ion	Exp%	Act%
146.00	100	100
111.00	36.00	37.22
75.00	24.40	23.10
50.10	20.50	20.39

Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR05.D Vial: 5
Acq On : 13 Apr 2017 8:44 am Operator: MGC
Sample : 1706245-CAL2 Inst : MS-V5
Misc : 1 VO-108-69825;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:31 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Multiple Level Calibration



TIC: 13APR05.D

(16) Bromochloromethane

6.19min 1.02ug/L m

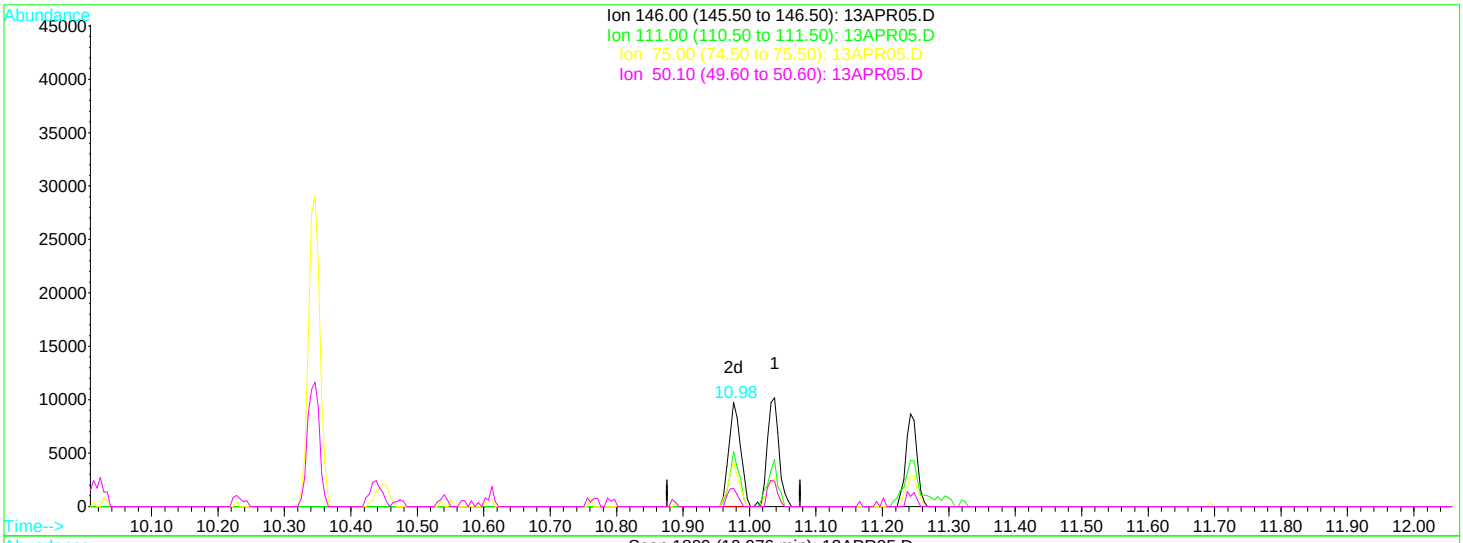
response 2713

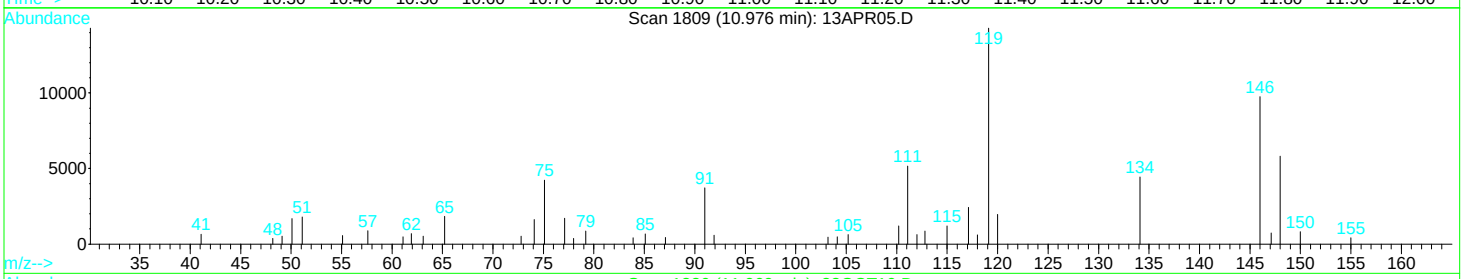
Ion	Exp%	Act%
127.90	100	100
49.00	317.10	234.13
129.90	139.30	114.01
0.00	0.00	0.00

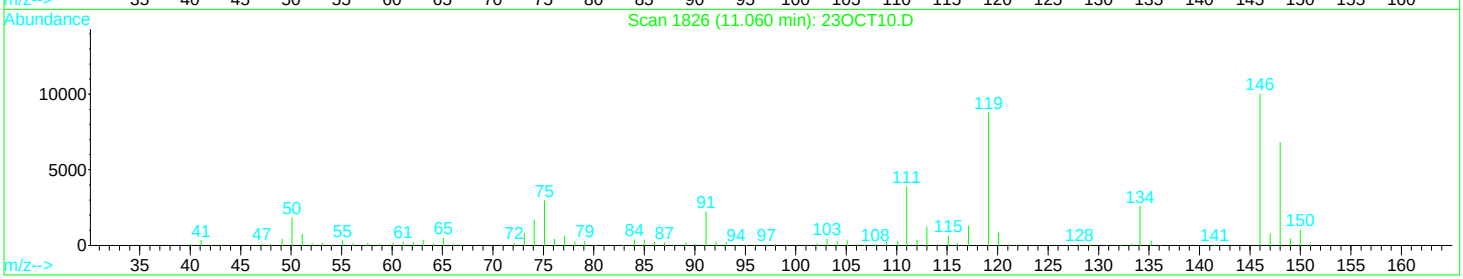
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR05.D Vial: 5
Acq On : 13 Apr 2017 8:44 am Operator: MGC
Sample : 1706245-CAL2 Inst : MS-V5
Misc : 1 VO-108-69825;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:31 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Multiple Level Calibration







TIC: 13APR05.D

(60) 1,3-Dichlorobenzene

10.98min -1.99ug/L m

response 11946

Ion	Exp%	Act%
146.00	100	100
111.00	36.00	38.46
75.00	24.40	23.87
50.10	20.50	21.07

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR06.D Vial: 6
Acq On : 13 Apr 2017 9:33 am Operator: MGC
Sample : 1706245-CAL3 Inst : MS-V5
Misc : 1 VO-108-69826;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:47 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.59	168	153902	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	230473	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	58196	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	53385	10.48	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 104.80%						
31) Toluene d8 SMC#2	8.61	98	252529	10.00	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.00%						
49) Bromofluorobenzene SMC#3	10.35	95	75787	10.14	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.40%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	80602	10.43	ug/L	97
3) Chloromethane	1.95	50	99317	9.35	ug/L	93
4) Vinyl chloride	2.08	62	103707	10.14	ug/L	94
5) Bromomethane	2.45	94	56958	11.13	ug/L	90
6) Chloroethane	2.57	64	58772	10.26	ug/L	100
7) Trichlorofluoromethane	2.88	101	107220	9.83	ug/L	86
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	67000	11.17	ug/L #	82
9) 1,1-Dichloroethene	3.52	61	125974	9.40	ug/L #	88
10) Methylene chloride	4.15	84	61182	9.92	ug/L	94
11) MTBE	4.49	73	104319	10.28	ug/L #	77
12) T-1,2-dichloroethene	4.51	96	77729	10.55	ug/L	93
13) 1,1-Dichloroethane	5.06	63	161382	10.11	ug/L	95
14) 2,2-Dichloropropane	5.84	77	119214	10.38	ug/L	91
15) Cis-1,2-dichloroethene	5.84	96	77160	10.00	ug/L #	92
16) Bromochloromethane	6.19	128	25065	10.22	ug/L	68
17) Chloroform	6.33	83	122178	9.80	ug/L #	1
18) 1,1,1-Trichloroethane	6.53	97	118517	10.07	ug/L #	71
19) 1,1-Dichloropropene	6.72	75	103907	10.36	ug/L	92
20) Carbon tetrachloride	6.72	119	83081	10.19	ug/L	90
22) 1,2-Dichloroethane	7.01	62	67037	10.00	ug/L #	96
23) Benzene	6.94	78	302906	10.19	ug/L #	8
25) Trichloroethene	7.61	130	82452	10.21	ug/L	98
26) 1,2-Dichloropropane	7.84	63	79546	9.96	ug/L	89
27) Dibromomethane	7.91	93	22293	9.88	ug/L	91
28) Bromodichloromethane	8.06	83	75145	9.76	ug/L #	80
29) 2-ceve	8.28	63	59333	32.67	ug/L #	75
30) Cis-1,3-dichloropropene	8.41	75	93633	9.91	ug/L	95
32) Toluene	8.66	92	175351	9.65	ug/L	89
33) Trans-1,3-dichloropropene	8.83	75	66260	9.90	ug/L	98
34) 1,1,2-Trichloroethane	8.97	97	34124	9.36	ug/L	86
35) Tetrachloroethene (PCE)	9.03	166	75482	8.97	ug/L	93
36) 1,3-Dichloropropane	9.09	76	57920	9.77	ug/L	88
37) Dibromochloromethane	9.24	129	38689	9.61	ug/L #	82
38) 1,2-Dibromoethane	9.33	107	31433	9.41	ug/L #	65
40) Chlorobenzene	9.64	112	161410	9.65	ug/L #	75
41) 1,1,1,2-Tetrachloroethane	9.70	131	53012	9.96	ug/L	94
42) Ethylbenzene	9.70	106	100607	9.37	ug/L	92
43) P+m-Xylene	9.77	106	236357	18.72	ug/L	84
44) O-Xylene	10.02	106	117055	9.37	ug/L	94
45) Styrene	10.03	104	169918	10.00	ug/L	85
46) Bromoform	10.15	173	16360	8.08	ug/L #	43
47) Isopropylbenzene	10.23	105	299012	9.56	ug/L	93
48) 1,1,2,2-Tetrachloroethane	10.41	83	29499	10.40	ug/L	77
50) 1,2,3-Trichloropropane	10.45	110	7136	10.20	ug/L #	100
51) n-propylbenzene	10.48	91	315838	9.43	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR06.D Vial: 6
Acq On : 13 Apr 2017 9:33 am Operator: MGC
Sample : 1706245-CAL3 Inst : MS-V5
Misc : 1 VO-108-69826;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:47 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

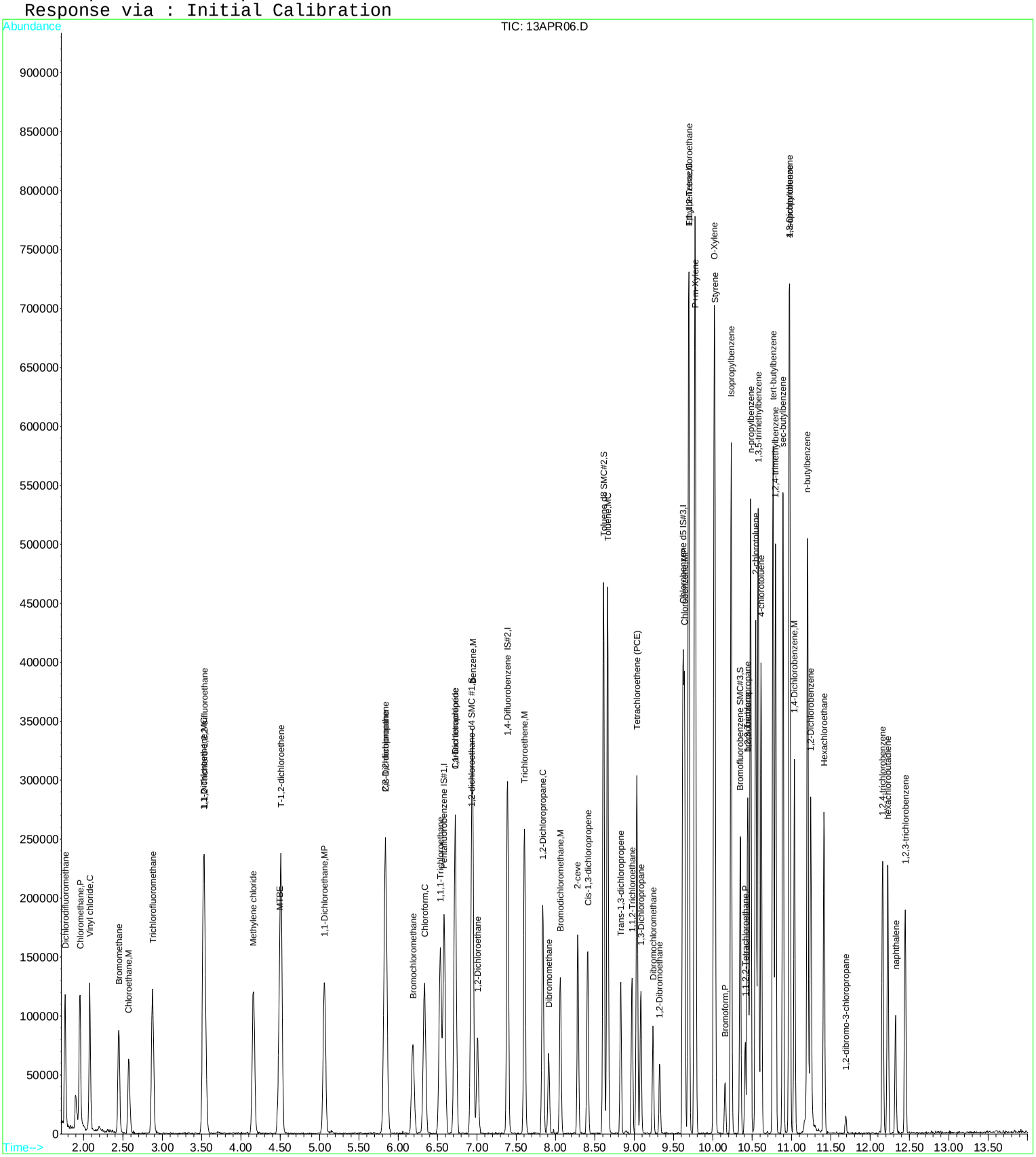
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	58161	9.40	ug/L		82
53)	1,3,5-trimethylbenzene	10.58	105	226573	9.51	ug/L		98
54)	2-chlorotoluene	10.55	91	212144	9.80	ug/L		95
55)	4-chlorotoluene	10.61	91	183801	9.42	ug/L		96
56)	tert-butylbenzene	10.77	119	248632	9.91	ug/L		100
57)	1,2,4-trimethylbenzene	10.80	105	217146	9.72	ug/L		92
58)	sec-butylbenzene	10.89	105	316126	10.06	ug/L		92
59)	4-isopropyltoluene	10.97	119	255500	10.25	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	104671	9.89	ug/L		96
61)	1,4-Dichlorobenzene	11.04	146	103187	9.75	ug/L		88
62)	n-butylbenzene	11.20	91	211296	10.79	ug/L		90
63)	1,2-Dichlorobenzene	11.24	146	87332	9.36	ug/L		88
64)	Hexachloroethane	11.41	117	37230	9.32	ug/L	#	52
65)	1,2-dibromo-3-chloropropan	11.69	75	3951	10.10	ug/L		81
66)	1,2,4-trichlorobenzene	12.16	180	64708	9.65	ug/L		90
67)	hexachlorobutadiene	12.22	225	43019	9.60	ug/L		93
68)	naphthalene	12.32	128	67407	8.89	ug/L		100
69)	1,2,3-trichlorobenzene	12.45	180	55689	10.15	ug/L	#	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR06.D Vial: 6
Acq On : 13 Apr 2017 9:33 am Operator: MGC
Sample : 1706245-CAL3 Inst : MS-V5
Misc : 1 VO-108-69826;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 9:47 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR07.D Vial: 7
Acq On : 13 Apr 2017 9:56 am Operator: MGC
Sample : 1706245-CAL4 Inst : MS-V5
Misc : 1 VO-108-69827;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:06 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	161320	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	238971	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	62788	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52684	9.86	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 98.60%						
31) Toluene d8 SMC#2	8.61	98	271910	10.39	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 103.90%						
49) Bromofluorobenzene SMC#3	10.35	95	80120	9.93	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.30%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	196392	24.25	ug/L	99
3) Chloromethane	1.95	50	247280	22.20	ug/L	92
4) Vinyl chloride	2.07	62	266097	24.82	ug/L	87
5) Bromomethane	2.44	94	149097	27.79	ug/L	87
6) Chloroethane	2.57	64	154707	25.76	ug/L	99
7) Trichlorofluoromethane	2.87	101	271858	23.79	ug/L	88
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	164773	26.21	ug/L #	82
9) 1,1-Dichloroethene	3.52	61	314953	22.41	ug/L #	89
10) Methylene chloride	4.15	84	152191	25.54	ug/L	92
11) MTBE	4.49	73	254998	23.98	ug/L #	77
12) T-1,2-dichloroethene	4.51	96	188050	24.36	ug/L	92
13) 1,1-Dichloroethane	5.06	63	412782	24.66	ug/L	95
14) 2,2-Dichloropropane	5.83	77	293317	24.37	ug/L	93
15) Cis-1,2-dichloroethene	5.83	96	199562	24.67	ug/L #	86
16) Bromochloromethane	6.19	128	65546	25.50	ug/L	67
17) Chloroform	6.33	83	309862	23.70	ug/L #	1
18) 1,1,1-Trichloroethane	6.53	97	295888	23.98	ug/L #	71
19) 1,1-Dichloropropene	6.72	75	261314	24.86	ug/L	92
20) Carbon tetrachloride	6.72	119	214686	25.12	ug/L	90
22) 1,2-Dichloroethane	7.01	62	173800	24.72	ug/L #	96
23) Benzene	6.94	78	751888	24.12	ug/L #	5
25) Trichloroethene	7.60	130	197111	23.55	ug/L	91
26) 1,2-Dichloropropane	7.83	63	202310	24.42	ug/L	90
27) Dibromomethane	7.90	93	56981	24.37	ug/L	93
28) Bromodichloromethane	8.06	83	195478	24.49	ug/L #	81
29) 2-ceve	8.28	63	156230	82.96	ug/L #	73
30) Cis-1,3-dichloropropene	8.41	75	238570	24.34	ug/L	98
32) Toluene	8.66	92	465131	24.68	ug/L	86
33) Trans-1,3-dichloropropene	8.83	75	170966	24.64	ug/L	98
34) 1,1,2-Trichloroethane	8.97	97	91785	24.28	ug/L	86
35) Tetrachloroethene (PCE)	9.03	166	193259	22.14	ug/L	91
36) 1,3-Dichloropropane	9.08	76	148138	24.11	ug/L	92
37) Dibromochloromethane	9.24	129	108874	26.09	ug/L #	78
38) 1,2-Dibromoethane	9.32	107	84911	24.51	ug/L #	69
40) Chlorobenzene	9.64	112	421115	23.33	ug/L #	77
41) 1,1,1,2-Tetrachloroethane	9.69	131	135187	23.53	ug/L	95
42) Ethylbenzene	9.69	106	269520	23.27	ug/L	86
43) P+m-Xylene	9.77	106	627996	46.11	ug/L	77
44) O-Xylene	10.01	106	313335	23.24	ug/L	97
45) Styrene	10.03	104	450395	24.56	ug/L	84
46) Bromoform	10.15	173	47321	23.31	ug/L #	36
47) Isopropylbenzene	10.23	105	767464	24.63	ug/L	89
48) 1,1,2,2-Tetrachloroethane	10.41	83	74093	24.22	ug/L	81
50) 1,2,3-Trichloropropane	10.45	110	17456	23.12	ug/L #	100
51) n-propylbenzene	10.48	91	804571	22.26	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR07.D Vial: 7
Acq On : 13 Apr 2017 9:56 am Operator: MGC
Sample : 1706245-CAL4 Inst : MS-V5
Misc : 1 VO-108-69827;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:06 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

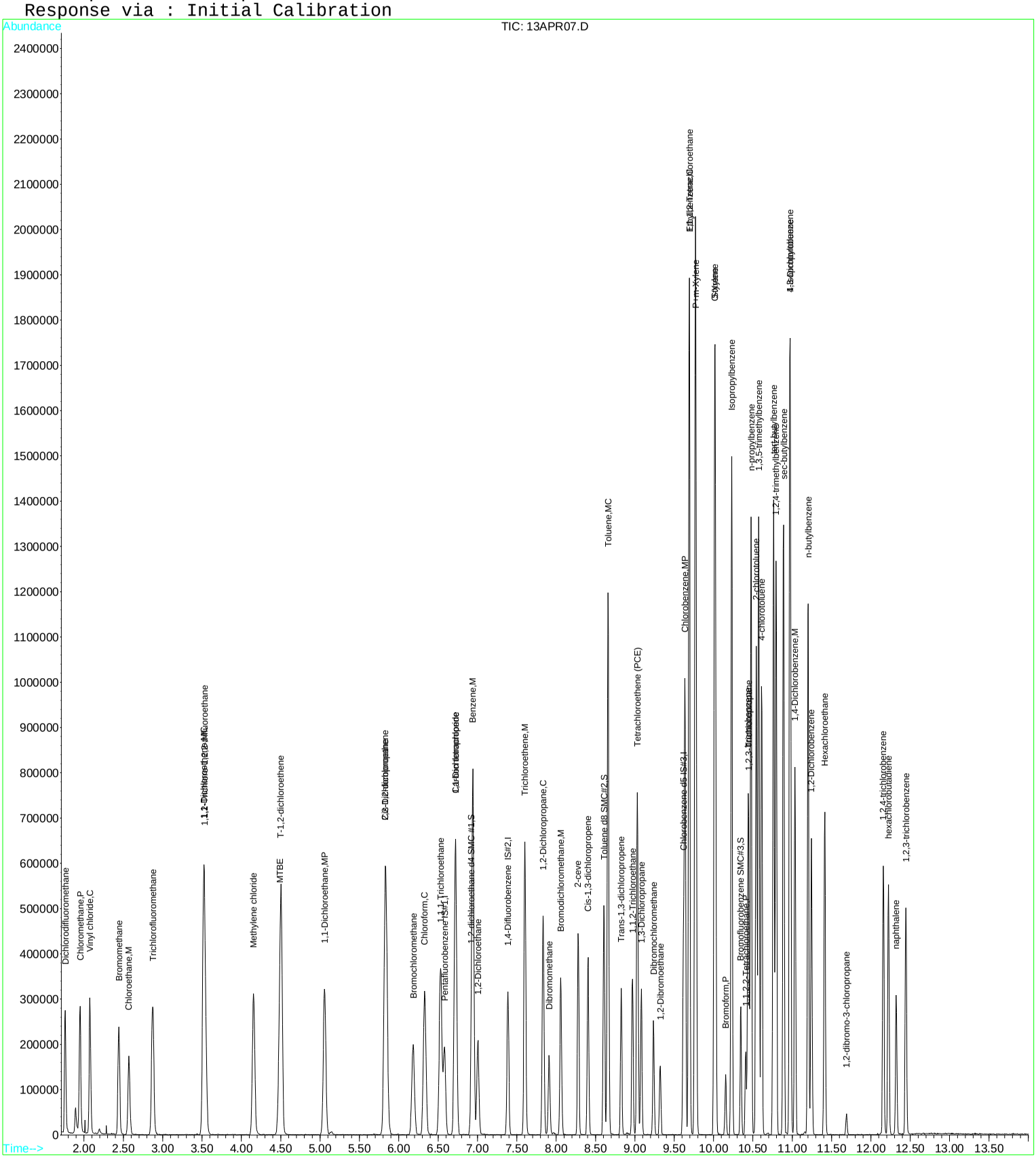
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	160022	23.96	ug/L		78
53)	1,3,5-trimethylbenzene	10.57	105	566580	22.05	ug/L		98
54)	2-chlorotoluene	10.54	91	533181	24.24	ug/L		91
55)	4-chlorotoluene	10.61	91	465689	23.62	ug/L		93
56)	tert-butylbenzene	10.76	119	626461	23.14	ug/L		92
57)	1,2,4-trimethylbenzene	10.79	105	551598	22.88	ug/L		95
58)	sec-butylbenzene	10.89	105	775375	22.86	ug/L		91
59)	4-isopropyltoluene	10.97	119	622846	23.17	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	267840	28.16	ug/L		96
61)	1,4-Dichlorobenzene	11.03	146	263907m	27.23	ug/L		
62)	n-butylbenzene	11.20	91	523724	24.78	ug/L		91
63)	1,2-Dichlorobenzene	11.24	146	225489	22.40	ug/L		85
64)	Hexachloroethane	11.41	117	105192	26.20	ug/L	#	50
65)	1,2-dibromo-3-chloropropan	11.69	75	11345	24.75	ug/L		93
66)	1,2,4-trichlorobenzene	12.16	180	166608	23.02	ug/L		89
67)	hexachlorobutadiene	12.22	225	101276	21.37	ug/L		93
68)	naphthalene	12.32	128	202847	23.06	ug/L		100
69)	1,2,3-trichlorobenzene	12.44	180	145844	24.64	ug/L		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR07.D Vial: 7
Acq On : 13 Apr 2017 9:56 am Operator: MGC
Sample : 1706245-CAL4 Inst : MS-V5
Misc : 1 VO-108-69827;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:06 2017 Quant Results File: 82605.RES

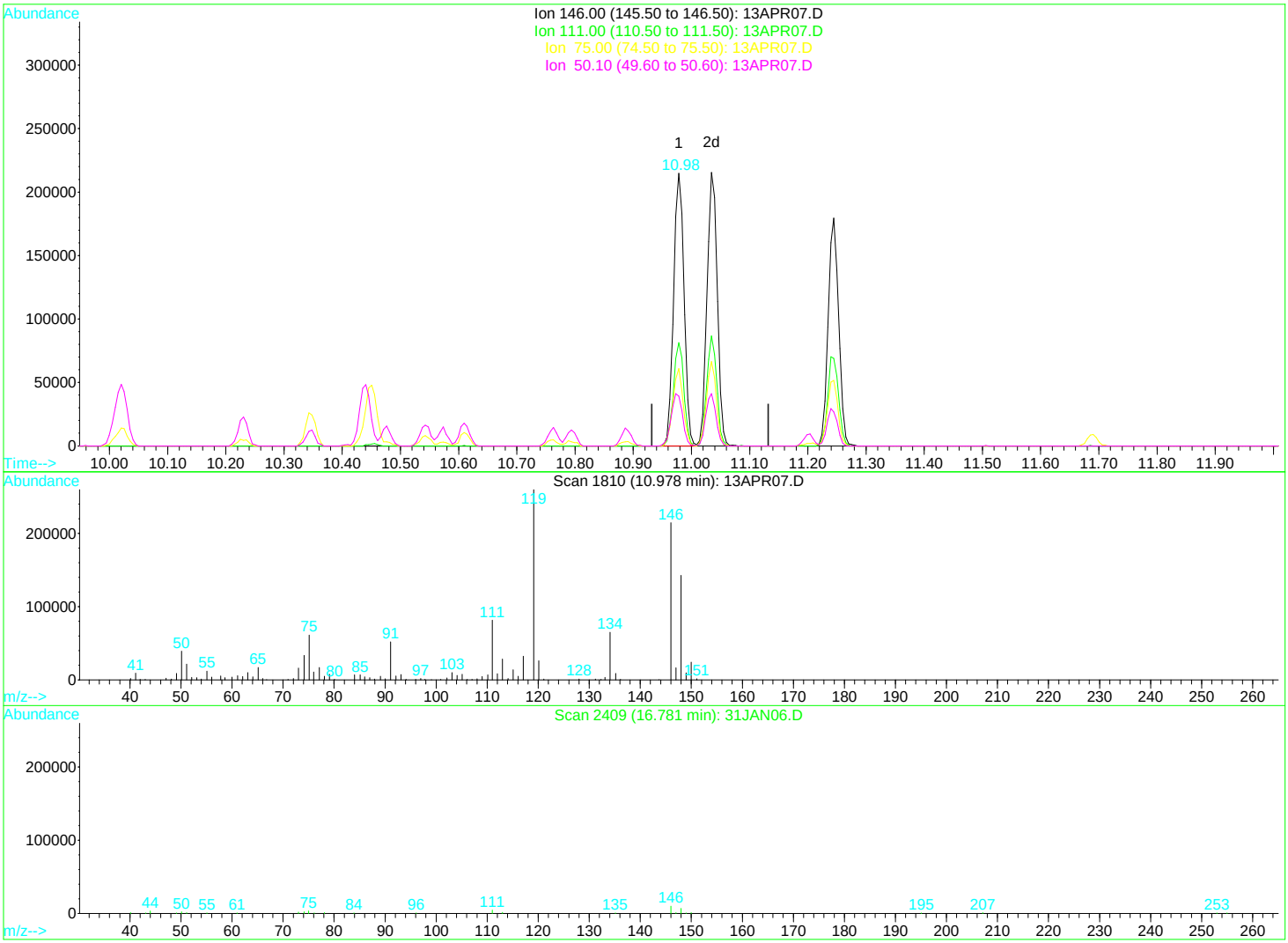
Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR07.D Vial: 7
Acq On : 13 Apr 2017 9:56 am Operator: MGC
Sample : 1706245-CAL4 Inst : MS-V5
Misc : 1 VO-108-69827;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 10:10 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Multiple Level Calibration



TIC: 13APR07.D

(61) 1,4-Dichlorobenzene (M)

10.98min 27.68ug/L

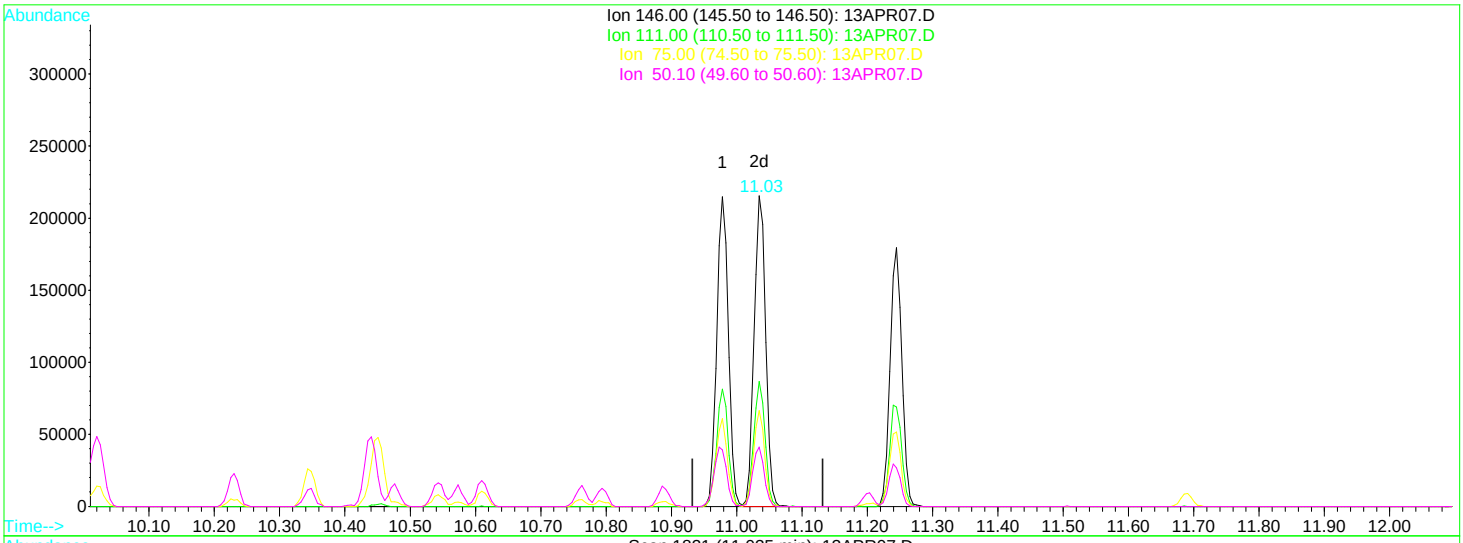
response 267801

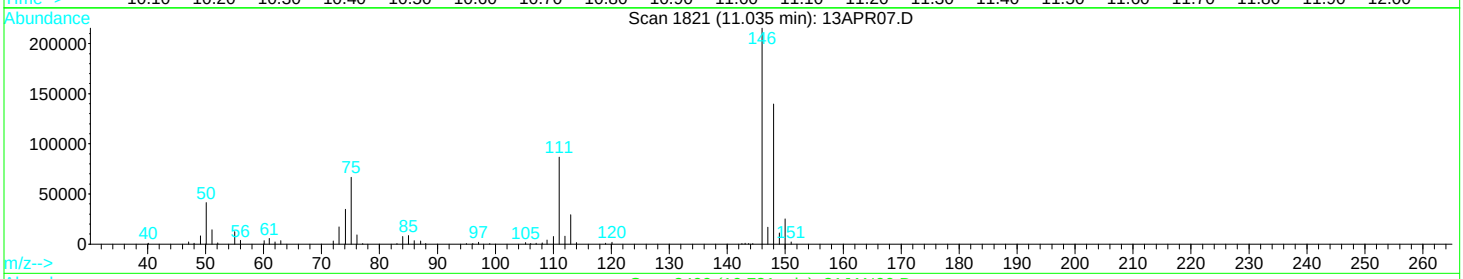
Ion	Exp%	Act%
146.00	100	100
111.00	31.50	37.89
75.00	22.70	28.21
50.10	17.10	20.80

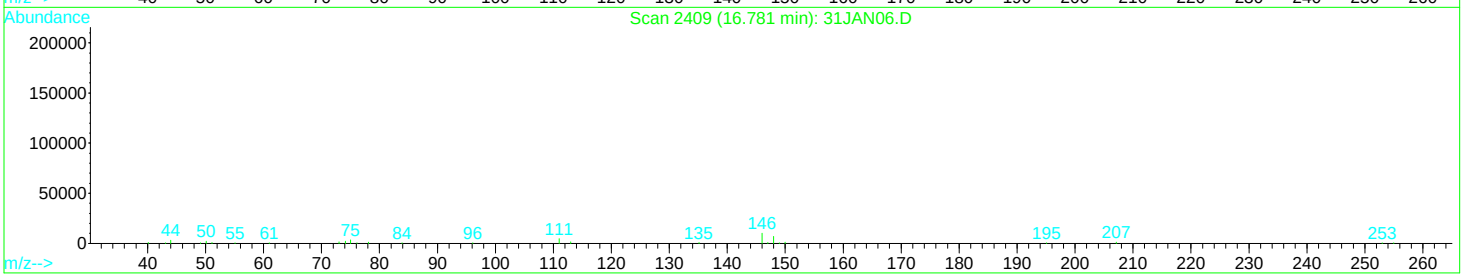
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR07.D Vial: 7
Acq On : 13 Apr 2017 9:56 am Operator: MGC
Sample : 1706245-CAL4 Inst : MS-V5
Misc : 1 VO-108-69827;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 11:06 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Multiple Level Calibration







TIC: 13APR07.D

(61) 1,4-Dichlorobenzene (M)

11.03min 27.23ug/L m

response 263907

Ion	Exp%	Act%
146.00	100	100
111.00	31.50	38.45
75.00	22.70	28.63
50.10	17.10	21.11

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR08.D Vial: 8
Acq On : 13 Apr 2017 10:20 am Operator: MGC
Sample : 1706245-CAL5 Inst : MS-V5
Misc : 1 VO-108-69828;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 10:34 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	168099	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	262475	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	66204	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	54222	9.74	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 97.40%						
31) Toluene d8 SMC#2	8.61	98	292923	10.19	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.90%						
49) Bromofluorobenzene SMC#3	10.35	95	88089	10.36	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 103.60%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	377855	44.78	ug/L	99
3) Chloromethane	1.95	50	490987	42.30	ug/L	92
4) Vinyl chloride	2.07	62	518730	46.44	ug/L	88
5) Bromomethane	2.44	94	301003	53.83	ug/L	85
6) Chloroethane	2.57	64	305550	48.82	ug/L	97
7) Trichlorofluoromethane	2.87	101	517995	43.49	ug/L	86
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	326748	49.87	ug/L #	82
9) 1,1-Dichloroethene	3.52	61	594119	40.57	ug/L #	86
10) Methylene chloride	4.15	84	309557	51.25	ug/L	97
11) MTBE	4.49	73	531178	47.94	ug/L #	79
12) T-1,2-dichloroethene	4.51	96	380950	47.35	ug/L	90
13) 1,1-Dichloroethane	5.06	63	789040	45.24	ug/L	96
14) 2,2-Dichloropropane	5.83	77	553346	44.12	ug/L	94
15) Cis-1,2-dichloroethene	5.83	96	393862	46.73	ug/L #	83
16) Bromochloromethane	6.18	128	135755	50.68	ug/L #	65
17) Chloroform	6.33	83	619637	45.49	ug/L #	1
18) 1,1,1-Trichloroethane	6.53	97	577085	44.87	ug/L #	75
19) 1,1-Dichloropropene	6.72	75	492785	44.99	ug/L	91
20) Carbon tetrachloride	6.72	119	430375	48.32	ug/L	88
22) 1,2-Dichloroethane	7.01	62	338116	46.16	ug/L #	94
23) Benzene	6.94	78	1481236	45.61	ug/L #	4
25) Trichloroethene	7.60	130	387623	42.16	ug/L	90
26) 1,2-Dichloropropane	7.84	63	403511	44.34	ug/L	87
27) Dibromomethane	7.91	93	119753	46.62	ug/L	97
28) Bromodichloromethane	8.06	83	382112	43.59	ug/L #	79
29) 2-ceve	8.28	63	328493	158.82	ug/L #	71
30) Cis-1,3-dichloropropene	8.41	75	474250	44.06	ug/L	95
32) Toluene	8.66	92	917623	44.33	ug/L	81
33) Trans-1,3-dichloropropene	8.83	75	346538	45.47	ug/L	98
34) 1,1,2-Trichloroethane	8.97	97	182848	44.04	ug/L	86
35) Tetrachloroethene (PCE)	9.03	166	381320	39.77	ug/L	91
36) 1,3-Dichloropropane	9.08	76	298639	44.25	ug/L	92
37) Dibromochloromethane	9.24	129	220297	48.06	ug/L #	81
38) 1,2-Dibromoethane	9.32	107	170840	44.89	ug/L #	64
40) Chlorobenzene	9.64	112	821237	43.16	ug/L #	77
41) 1,1,1,2-Tetrachloroethane	9.69	131	265369	43.81	ug/L	99
42) Ethylbenzene	9.69	106	515000	42.17	ug/L	80
43) P+m-Xylene	9.77	106	1225254	85.32	ug/L	71
44) O-Xylene	10.02	106	620019	43.62	ug/L	92
45) Styrene	10.03	104	852931	44.11	ug/L	84
46) Bromoform	10.15	173	102366	48.85	ug/L #	35
47) Isopropylbenzene	10.23	105	1382792	45.68	ug/L	86
48) 1,1,2,2-Tetrachloroethane	10.41	83	158143	49.03	ug/L	79
50) 1,2,3-Trichloropropane	10.45	110	36666	46.06	ug/L #	100
51) n-propylbenzene	10.48	91	1484521	38.95	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR08.D Vial: 8
Acq On : 13 Apr 2017 10:20 am Operator: MGC
Sample : 1706245-CAL5 Inst : MS-V5
Misc : 1 VO-108-69828;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 10:34 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

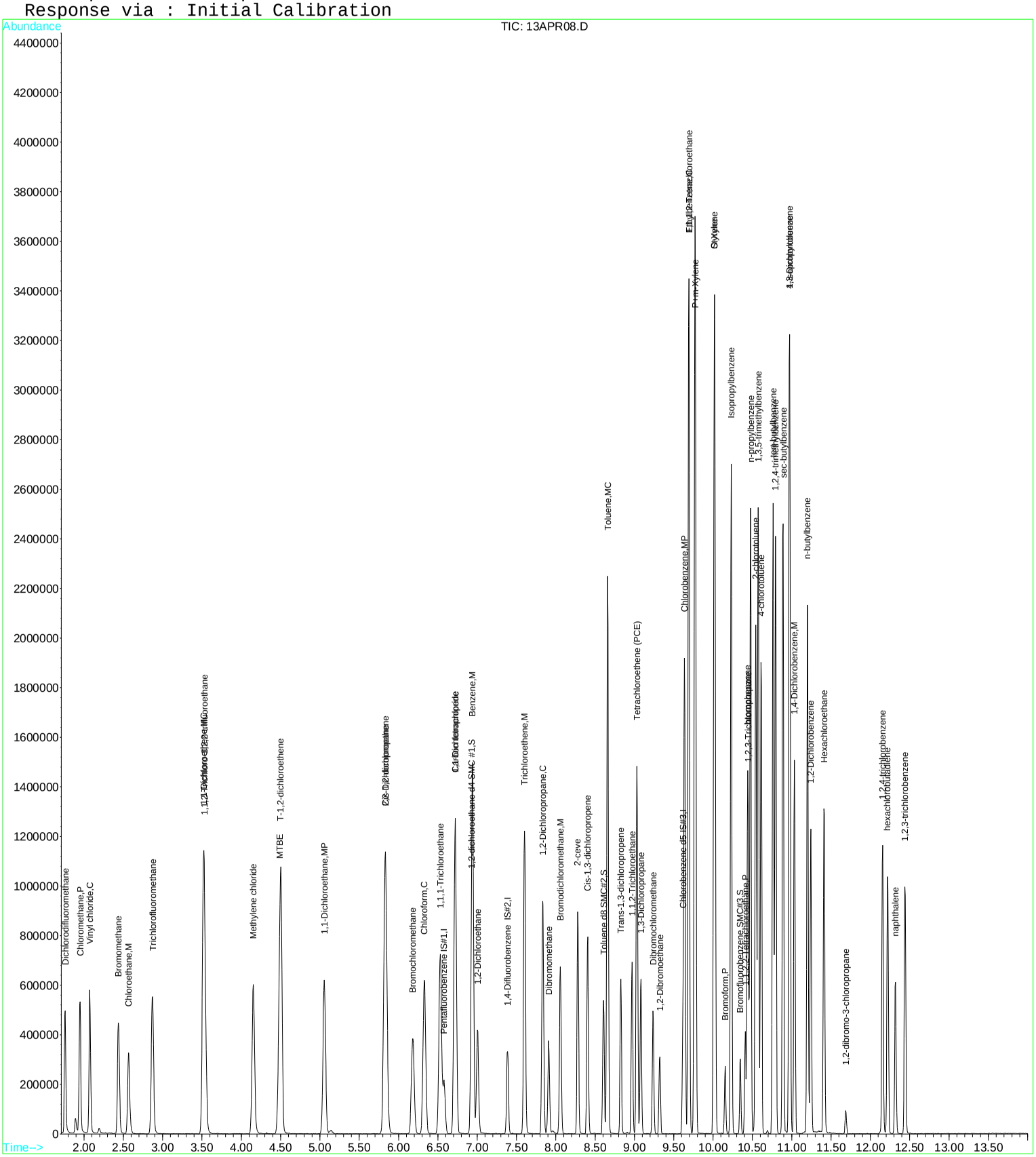
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	311579	44.25	ug/L		78
53)	1,3,5-trimethylbenzene	10.57	105	1057953	39.05	ug/L		95
54)	2-chlorotoluene	10.54	91	1020733	47.58	ug/L		89
55)	4-chlorotoluene	10.61	91	888871	46.23	ug/L		91
56)	tert-butylbenzene	10.76	119	1184153	41.48	ug/L		93
57)	1,2,4-trimethylbenzene	10.79	105	1011609	39.80	ug/L		100
58)	sec-butylbenzene	10.89	105	1417787	39.64	ug/L	#	88
59)	4-isopropyltoluene	10.97	119	1085862	38.31	ug/L		99
60)	1,3-Dichlorobenzene	10.98	146	489432	51.33	ug/L		95
61)	1,4-Dichlorobenzene	11.03	146	499059	51.22	ug/L		90
62)	n-butylbenzene	11.20	91	956970	42.95	ug/L	#	92
63)	1,2-Dichlorobenzene	11.24	146	426362	40.17	ug/L		86
64)	Hexachloroethane	11.41	117	209587	50.48	ug/L	#	47
65)	1,2-dibromo-3-chloropropan	11.69	75	22913	46.23	ug/L		95
66)	1,2,4-trichlorobenzene	12.16	180	332131	43.52	ug/L		87
67)	hexachlorobutadiene	12.22	225	196072	39.53	ug/L		92
68)	naphthalene	12.32	128	429963	45.38	ug/L		100
69)	1,2,3-trichlorobenzene	12.44	180	294786	47.23	ug/L		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR08.D Vial: 8
Acq On : 13 Apr 2017 10:20 am Operator: MGC
Sample : 1706245-CAL5 Inst : MS-V5
Misc : 1 VO-108-69828;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 10:34 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR09.D Vial: 9
Acq On : 13 Apr 2017 10:43 am Operator: MGC
Sample : 1706245-CAL6 Inst : MS-V5
Misc : 1 VO-108-69829;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 10:57 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	148196	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	234448	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	54602	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	45084	9.19	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 91.90%						
31) Toluene d8 SMC#2	8.61	98	259241	10.10	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.00%						
49) Bromofluorobenzene SMC#3	10.35	95	72995	10.41	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 104.10%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	684239	91.98	ug/L	99
3) Chloromethane	1.95	50	894643	87.43	ug/L	95
4) Vinyl chloride	2.07	62	951388	96.61	ug/L	90
5) Bromomethane	2.43	94	571149	115.87	ug/L	82
6) Chloroethane	2.57	64	597397	108.28	ug/L	99
7) Trichlorofluoromethane	2.87	101	955769	91.03	ug/L	83
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	616297	106.70	ug/L #	83
9) 1,1-Dichloroethene	3.51	61	1068984	82.80	ug/L #	83
10) Methylene chloride	4.15	84	607163	115.80	ug/L	97
11) MTBE	4.49	73	1014144	103.82	ug/L #	79
12) T-1,2-dichloroethene	4.50	96	718117	101.25	ug/L	86
13) 1,1-Dichloroethane	5.06	63	1462863	95.13	ug/L	98
14) 2,2-Dichloropropane	5.84	77	999848	90.43	ug/L	93
15) Cis-1,2-dichloroethene	5.83	96	733042	98.65	ug/L #	80
16) Bromochloromethane	6.18	128	267633	113.34	ug/L #	60
17) Chloroform	6.33	83	1131530	94.23	ug/L #	1
18) 1,1,1-Trichloroethane	6.53	97	1065692	94.00	ug/L #	76
19) 1,1-Dichloropropene	6.72	75	880468	91.18	ug/L	89
20) Carbon tetrachloride	6.72	119	804930	102.50	ug/L	87
22) 1,2-Dichloroethane	7.01	62	629045	97.41	ug/L #	94
23) Benzene	6.94	78	2665789	93.10	ug/L #	3
25) Trichloroethene	7.60	130	730306	88.92	ug/L	91
26) 1,2-Dichloropropane	7.83	63	739580	90.99	ug/L	87
27) Dibromomethane	7.91	93	227892	99.33	ug/L	95
28) Bromodichloromethane	8.06	83	707644	90.38	ug/L #	76
29) 2-ceve	8.28	63	619181	335.14	ug/L #	69
30) Cis-1,3-dichloropropene	8.41	75	872484	90.74	ug/L	93
32) Toluene	8.66	92	1640419	88.72	ug/L	77
33) Trans-1,3-dichloropropene	8.83	75	644271	94.64	ug/L	99
34) 1,1,2-Trichloroethane	8.97	97	345655	93.20	ug/L	83
35) Tetrachloroethene (PCE)	9.03	166	694046	81.04	ug/L	90
36) 1,3-Dichloropropane	9.08	76	554100	91.92	ug/L	95
37) Dibromochloromethane	9.24	129	419683	102.51	ug/L #	80
38) 1,2-Dibromoethane	9.32	107	335213	98.62	ug/L #	67
40) Chlorobenzene	9.64	112	1429613	91.09	ug/L #	76
41) 1,1,1,2-Tetrachloroethane	9.69	131	468403	93.77	ug/L	98
42) Ethylbenzene	9.69	106	862097	85.59	ug/L	74
43) P+m-Xylene	9.77	106	2055511	173.55	ug/L	65
44) O-Xylene	10.01	106	1061493	90.54	ug/L	88
45) Styrene	10.03	104	1407311	88.25	ug/L #	84
46) Bromoform	10.15	173	193104	112.97	ug/L #	38
47) Isopropylbenzene	10.23	105	2279860	137.23	ug/L #	80
48) 1,1,2,2-Tetrachloroethane	10.41	83	272094	102.27	ug/L	83
50) 1,2,3-Trichloropropane	10.45	110	61734	94.02	ug/L #	100
51) n-propylbenzene	10.48	91	2342442	74.52	ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR09.D Vial: 9
Acq On : 13 Apr 2017 10:43 am Operator: MGC
Sample : 1706245-CAL6 Inst : MS-V5
Misc : 1 VO-108-69829;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 10:57 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

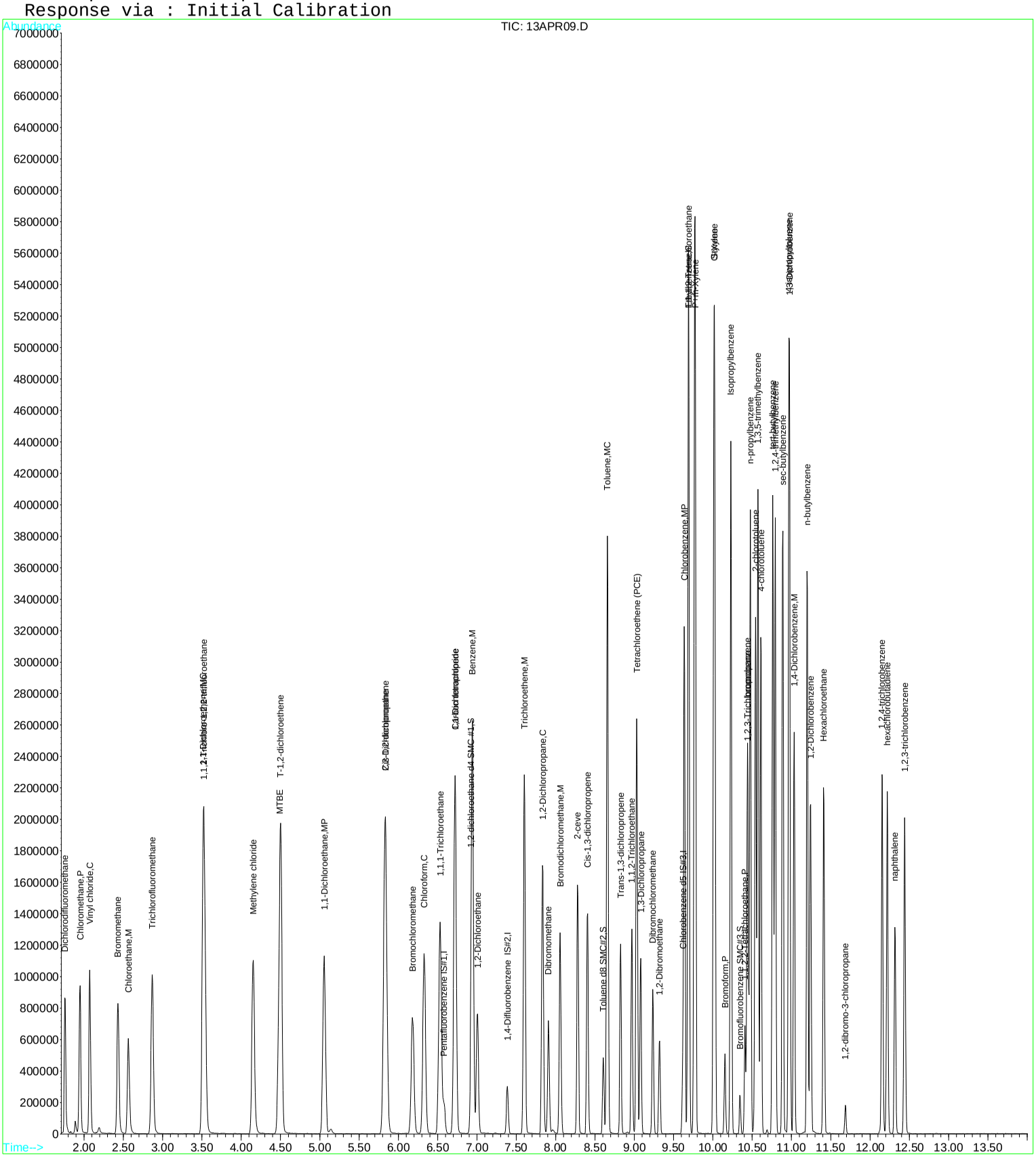
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	530454	91.33	ug/L		80
53)	1,3,5-trimethylbenzene	10.57	105	1708507	76.47	ug/L		91
54)	2-chlorotoluene	10.54	91	1678570	128.62	ug/L		86
55)	4-chlorotoluene	10.61	91	1476468	125.69	ug/L		88
56)	tert-butylbenzene	10.76	119	1896724	80.56	ug/L		93
57)	1,2,4-trimethylbenzene	10.79	105	1648660	78.65	ug/L		97
58)	sec-butylbenzene	10.89	105	2244354	76.09	ug/L	#	83
59)	4-isopropyltoluene	10.97	119	1761574	75.35	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	824828	108.46	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	842582	108.01	ug/L		88
62)	n-butylbenzene	11.20	91	1540626	83.84	ug/L	#	93
63)	1,2-Dichlorobenzene	11.24	146	732436	83.66	ug/L		85
64)	Hexachloroethane	11.41	117	368396	108.82	ug/L	#	45
65)	1,2-dibromo-3-chloropropan	11.69	75	45274	108.96	ug/L		95
66)	1,2,4-trichlorobenzene	12.16	180	648489	103.02	ug/L		85
67)	hexachlorobutadiene	12.22	225	391876	96.31	ug/L		93
68)	naphthalene	12.32	128	913673	115.41	ug/L		100
69)	1,2,3-trichlorobenzene	12.44	180	587087	114.06	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR09.D Vial: 9
Acq On : 13 Apr 2017 10:43 am Operator: MGC
Sample : 1706245-CAL6 Inst : MS-V5
Misc : 1 VO-108-69829;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 10:57 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR40.D Vial: 2
Acq On : 14 Apr 2017 4:37 am Operator: MGC
Sample : 1706245-CAL7 Inst : MS-V5
Misc : 1 VO-108-69831;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:19 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	206122	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	312963	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	74506	10.00	ug/L		0.00

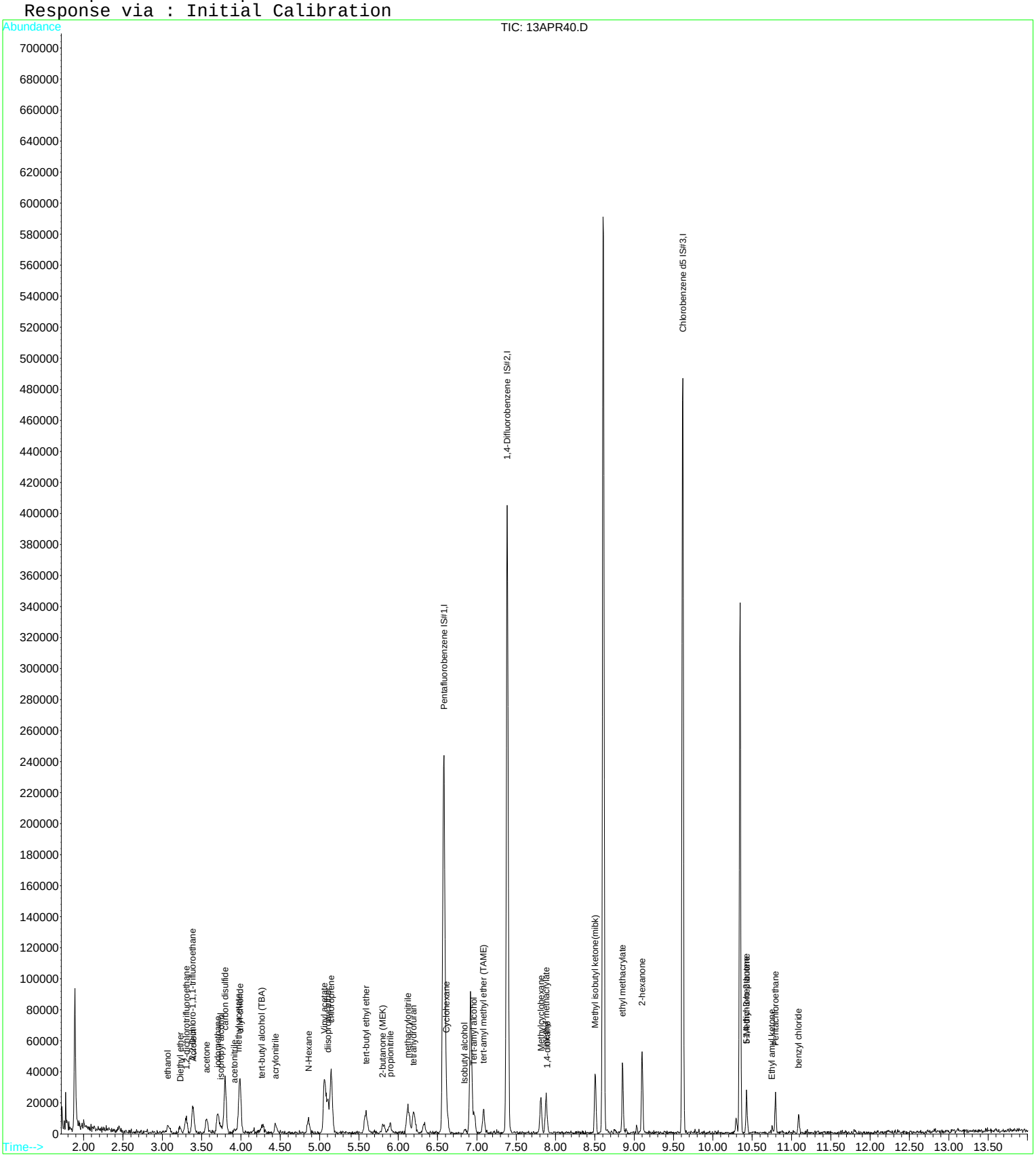
Target Compounds							Qvalue
2) ethanol	3.07	45	6010	206.06	ug/L	#	77
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	11747	0.72	ug/L	#	96
4) 1,2-dichlorotrifluoroethan	3.31	67	6906	0.61	ug/L	#	92
5) Diethyl ether	3.24	59	2684	0.56	ug/L	#	91
6) isopropyl alcohol	3.75	45	6327	42.73	ug/L	#	89
7) Acrolein	3.39	56	4239	10.62	ug/L		74
8) acetone	3.56	43	12224	17.76	ug/L		85
9) tert-butyl alcohol (TBA)	4.26	59	8815	36.29	ug/L		100
10) acetonitrile	3.92	41	3284	9.42	ug/L	#	56
11) methyl acetate	3.97	43	15914	7.14	ug/L		96
12) allyl chloride	3.99	41	34659	2.01	ug/L		92
13) iodomethane	3.70	142	18124	1.57	ug/L		97
14) acrylonitrile	4.44	53	5774	4.44	ug/L		78
15) carbon disulfide	3.80	76	57279	1.99	ug/L		99
16) N-Hexane	4.86	57	5627	0.48	ug/L	#	74
17) diisopropyl ether	5.11	87	6328	0.87	ug/L		57
18) Vinyl acetate	5.06	43	71009	0.31	ug/L		98
19) chloroprene	5.15	53	31926	1.78	ug/L		91
20) tert-butyl ethyl ether	5.59	59	17410	0.76	ug/L		86
21) 2-butanone (MEK)	5.80	43	10654	3.65	ug/L	#	69
22) propionitrile	5.89	54	9423	21.33	ug/L	#	77
23) Isobutyl alcohol	6.84	43	2308	22.33	ug/L	#	35
24) methacrylonitrile	6.12	67	10802	8.39	ug/L		90
25) Tert-amyl alcohol	6.96	59	9134	50.63	ug/L	#	83
26) tetrahydrofuran	6.20	42	12432	15.43	ug/L		91
27) Cyclohexane	6.62	56	12526	0.59	ug/L	#	60
28) tert-amyl methyl ether (TA	7.09	73	11066	0.76	ug/L		92
30) methyl methacrylate	7.88	69	8926	3.78	ug/L		100
31) Methylcyclohexane	7.81	55	8106	0.48	ug/L		86
32) 1,4-dioxane	7.90	88	3505	142.09	ug/L	#	68
33) Methyl isobutyl ketone(mib	8.50	43	20966	7.20	ug/L		98
34) ethyl methacrylate	8.85	69	18997	3.71	ug/L		97
35) 2-hexanone	9.10	43	27973	14.35	ug/L		93
37) 5-Methyl-3-heptanone	10.43	43	1985	0.80	ug/L	#	86
38) cyclohexanone	10.30	55	3763	Below Cal			98
39) t-1,4-dichloro-2-butene	10.43	75	4569	4.03	ug/L	#	75
40) Ethyl amyl ketone	10.75	57	1389	0.59	ug/L	#	1
41) Pentachloroethane	10.80	167	3290	1.09	ug/L		84
42) benzyl chloride	11.09	91	8091	1.40	ug/L		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR40.D Vial: 2
Acq On : 14 Apr 2017 4:37 am Operator: MGC
Sample : 1706245-CAL7 Inst : MS-V5
Misc : 1 VO-108-69831;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:19 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR41.D Vial: 3
Acq On : 14 Apr 2017 5:00 am Operator: MGC
Sample : 1706245-CAL8 Inst : MS-V5
Misc : 1 VO-108-69832;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:19 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	194647	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	303398	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	75679	10.00	ug/L		0.00

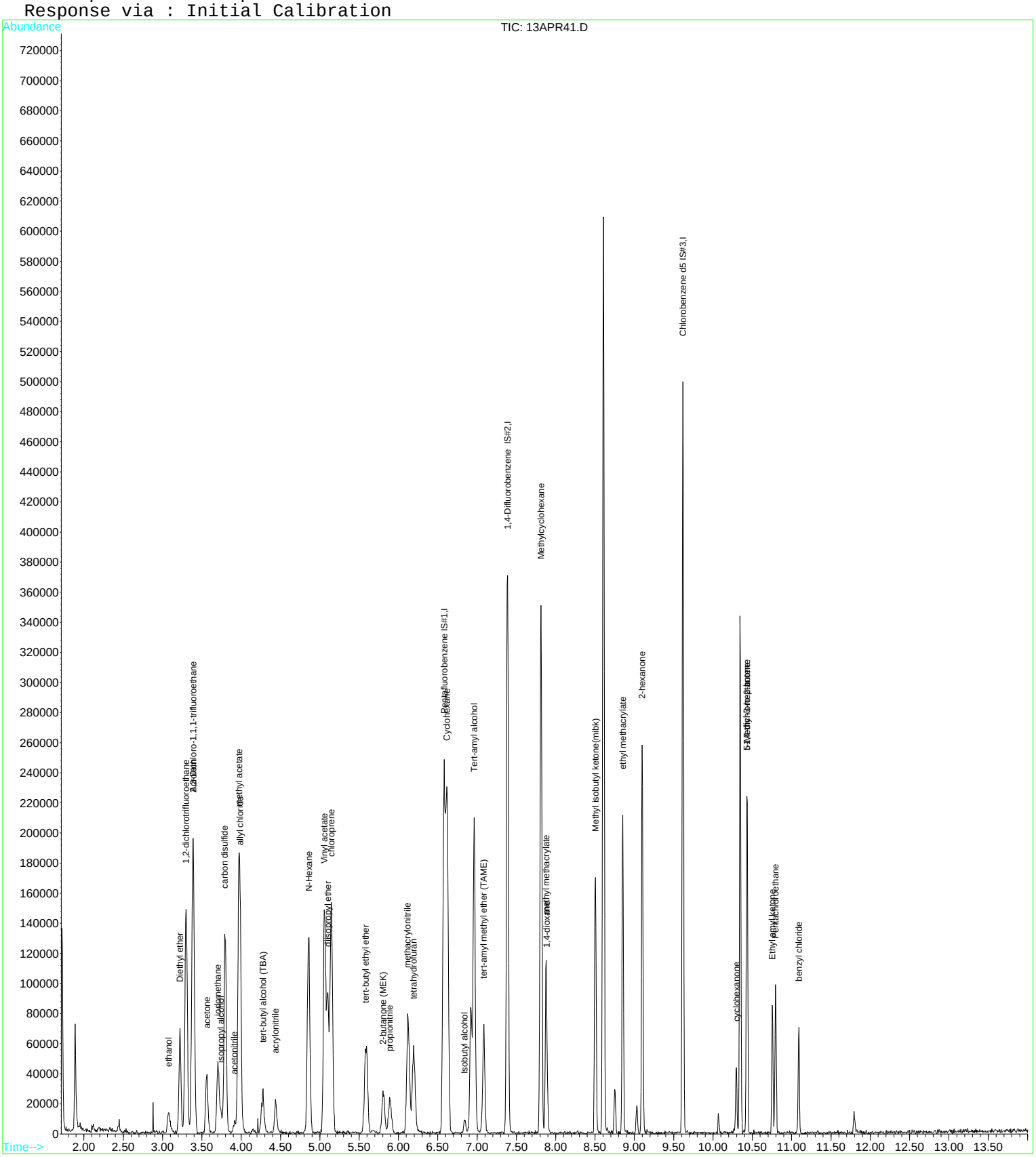
Target Compounds							Qvalue
2) ethanol	3.07	45	20982	761.81	ug/L		100
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	149406	9.66	ug/L	#	98
4) 1,2-dichlorotrifluoroethan	3.30	67	101053	9.48	ug/L	#	95
5) Diethyl ether	3.22	59	42193	9.26	ug/L	#	73
6) isopropyl alcohol	3.74	45	19317	138.14	ug/L	#	83
7) Acrolein	3.39	56	15469	41.04	ug/L		88
8) acetone	3.56	43	54464	83.80	ug/L		88
9) tert-butyl alcohol (TBA)	4.27	59	39632	172.77	ug/L		100
10) acetonitrile	3.92	41	10815	32.84	ug/L	#	61
11) methyl acetate	3.97	43	188822	89.68	ug/L		92
12) allyl chloride	3.99	41	130108	7.99	ug/L		94
13) iodomethane	3.70	142	66504	6.09	ug/L		96
14) acrylonitrile	4.44	53	20145	16.39	ug/L		88
15) carbon disulfide	3.79	76	224856	8.28	ug/L		99
16) N-Hexane	4.86	57	88841	8.08	ug/L	#	75
17) diisopropyl ether	5.10	87	24906	3.63	ug/L		68
18) Vinyl acetate	5.06	43	294943	34.07	ug/L	#	95
19) chloroprene	5.15	53	123533	7.31	ug/L		88
20) tert-butyl ethyl ether	5.58	59	80387	3.71	ug/L		98
21) 2-butanone (MEK)	5.80	43	50280	38.05	ug/L	#	71
22) propionitrile	5.89	54	35379	84.82	ug/L	#	64
23) Isobutyl alcohol	6.84	43	7684	78.72	ug/L	#	79
24) methacrylonitrile	6.12	67	48181	39.61	ug/L		86
25) Tert-amyl alcohol	6.96	59	139733	820.20	ug/L	#	81
26) tetrahydrofuran	6.20	42	54749	71.96	ug/L		93
27) Cyclohexane	6.61	56	157764	7.81	ug/L	#	87
28) tert-amyl methyl ether (TA	7.09	73	51156	3.72	ug/L		92
30) methyl methacrylate	7.88	69	43370	18.95	ug/L		90
31) Methylcyclohexane	7.81	55	123204	7.58	ug/L		96
32) 1,4-dioxane	7.89	88	10213	427.07	ug/L		73
33) Methyl isobutyl ketone(mib	8.50	43	98648	34.97	ug/L		90
34) ethyl methacrylate	8.85	69	90161	18.17	ug/L		99
35) 2-hexanone	9.10	43	126826	67.11	ug/L		87
37) 5-Methyl-3-heptanone	10.44	43	39537	15.78	ug/L		90
38) cyclohexanone	10.29	55	16276	47.29	ug/L		93
39) t-1,4-dichloro-2-butene	10.43	75	18938	16.44	ug/L		88
40) Ethyl amyl ketone	10.75	57	19653	8.27	ug/L	#	9
41) Pentachloroethane	10.79	167	12198	3.96	ug/L		93
42) benzyl chloride	11.09	91	41023	6.96	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR41.D Vial: 3
Acq On : 14 Apr 2017 5:00 am Operator: MGC
Sample : 1706245-CAL8 Inst : MS-V5
Misc : 1 VO-108-69832;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:19 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR18.D Vial: 18
Acq On : 13 Apr 2017 2:55 pm Operator: MGC
Sample : 1706245-CAL9 Inst : MS-V5
Misc : 1 VO-108-69833;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:49 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	175664	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	256828	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	66448	10.00	ug/L		0.00

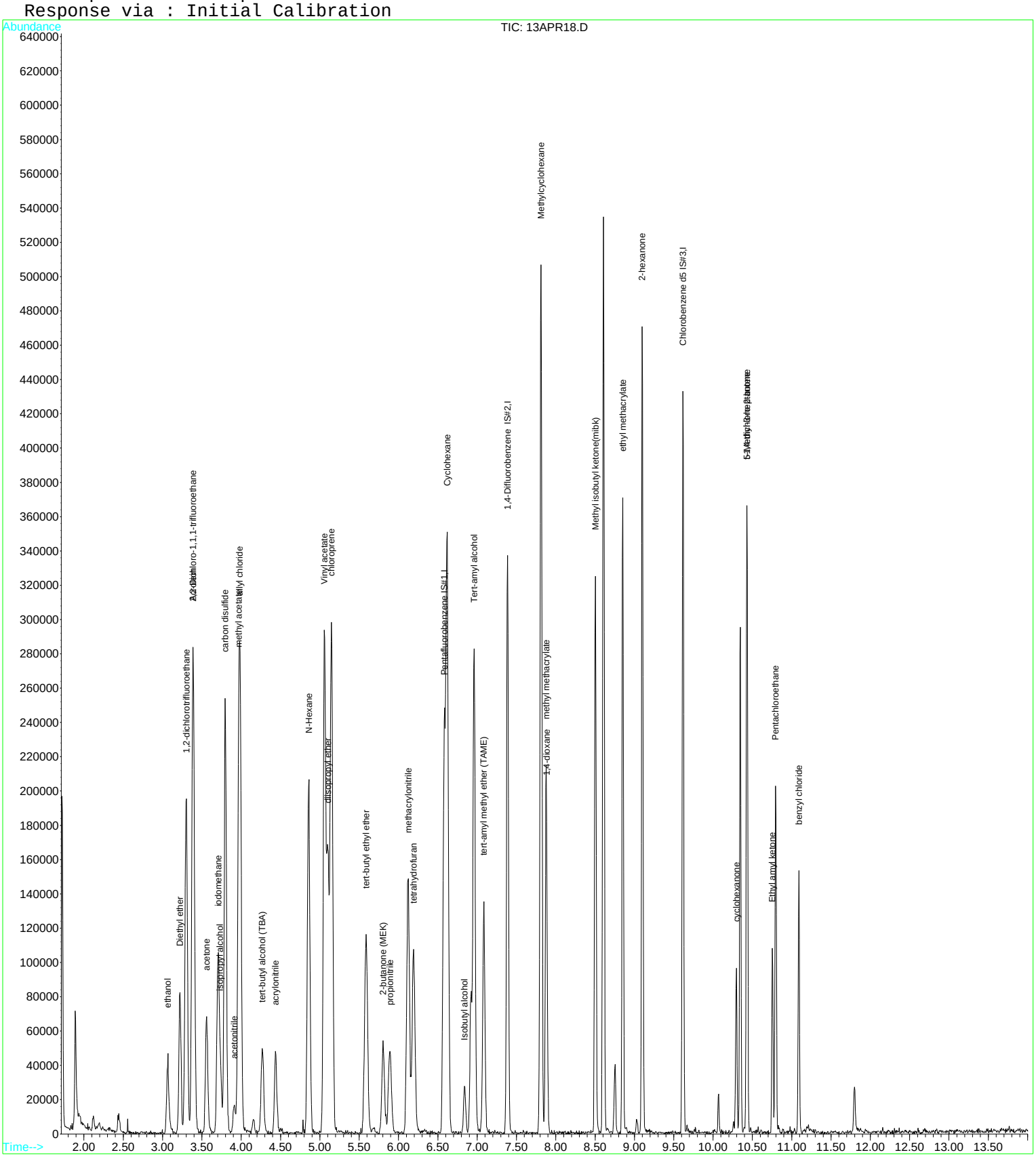
Target Compounds							Qvalue
2) ethanol	3.07	45	53891	2168.11	ug/L		91
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	207168	14.84	ug/L	#	96
4) 1,2-dichlorotrifluoroethan	3.30	67	129640	13.47	ug/L	#	92
5) Diethyl ether	3.22	59	53622	13.04	ug/L	#	85
6) isopropyl alcohol	3.73	45	52280	414.28	ug/L	#	81
7) Acrolein	3.39	56	35114	103.24	ug/L		91
8) acetone	3.56	43	96629	164.74	ug/L		92
9) tert-butyl alcohol (TBA)	4.27	59	78288	378.16	ug/L		100
10) acetonitrile	3.91	41	24201	81.43	ug/L	#	46
11) methyl acetate	3.96	43	263411	138.62	ug/L		99
12) allyl chloride	3.98	41	259855	17.68	ug/L		99
13) iodomethane	3.71	142	149104	15.14	ug/L		97
14) acrylonitrile	4.44	53	45222	40.77	ug/L		90
15) carbon disulfide	3.80	76	400972	16.35	ug/L		99
16) N-Hexane	4.86	57	137748	13.88	ug/L	#	75
17) diisopropyl ether	5.11	87	50084	8.08	ug/L		61
18) Vinyl acetate	5.06	43	585942	86.57	ug/L		96
19) chloroprene	5.15	53	258465	16.96	ug/L		100
20) tert-butyl ethyl ether	5.59	59	153544	7.85	ug/L		99
21) 2-butanone (MEK)	5.80	43	89531	79.90	ug/L	#	71
22) propionitrile	5.89	54	79675	211.67	ug/L	#	64
23) Isobutyl alcohol	6.84	43	19688	223.50	ug/L	#	72
24) methacrylonitrile	6.12	67	81952	74.65	ug/L		98
25) Tert-amyl alcohol	6.96	59	197031	1281.50	ug/L	#	85
26) tetrahydrofuran	6.19	42	100764	146.76	ug/L		91
27) Cyclohexane	6.62	56	242850	13.31	ug/L		92
28) tert-amyl methyl ether (TA	7.08	73	94765	7.63	ug/L		96
30) methyl methacrylate	7.88	69	72342	37.34	ug/L		95
31) Methylcyclohexane	7.81	55	190215	13.82	ug/L		94
32) 1,4-dioxane	7.89	88	18733	925.38	ug/L		95
33) Methyl isobutyl ketone(mib	8.50	43	180384	75.53	ug/L		89
34) ethyl methacrylate	8.85	69	154172	36.70	ug/L		99
35) 2-hexanone	9.10	43	239532	149.73	ug/L		93
37) 5-Methyl-3-heptanone	10.44	43	57472	26.12	ug/L		93
38) cyclohexanone	10.30	55	35986	207.18	ug/L		98
39) t-1,4-dichloro-2-butene	10.43	75	35733	35.33	ug/L		86
40) Ethyl amyl ketone	10.76	57	26144	12.53	ug/L	#	10
41) Pentachloroethane	10.80	167	27133	10.04	ug/L		82
42) benzyl chloride	11.09	91	86123	16.65	ug/L		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR18.D Vial: 18
Acq On : 13 Apr 2017 2:55 pm Operator: MGC
Sample : 1706245-CAL9 Inst : MS-V5
Misc : 1 VO-108-69833;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:49 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\31-1615\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR19.D Vial: 19
Acq On : 13 Apr 2017 3:18 pm Operator: MGC
Sample : 1706245-CALA Inst : MS-V5
Misc : 1 VO-108-69834;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:49 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	172898	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	264280	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	66216	10.00	ug/L		0.00

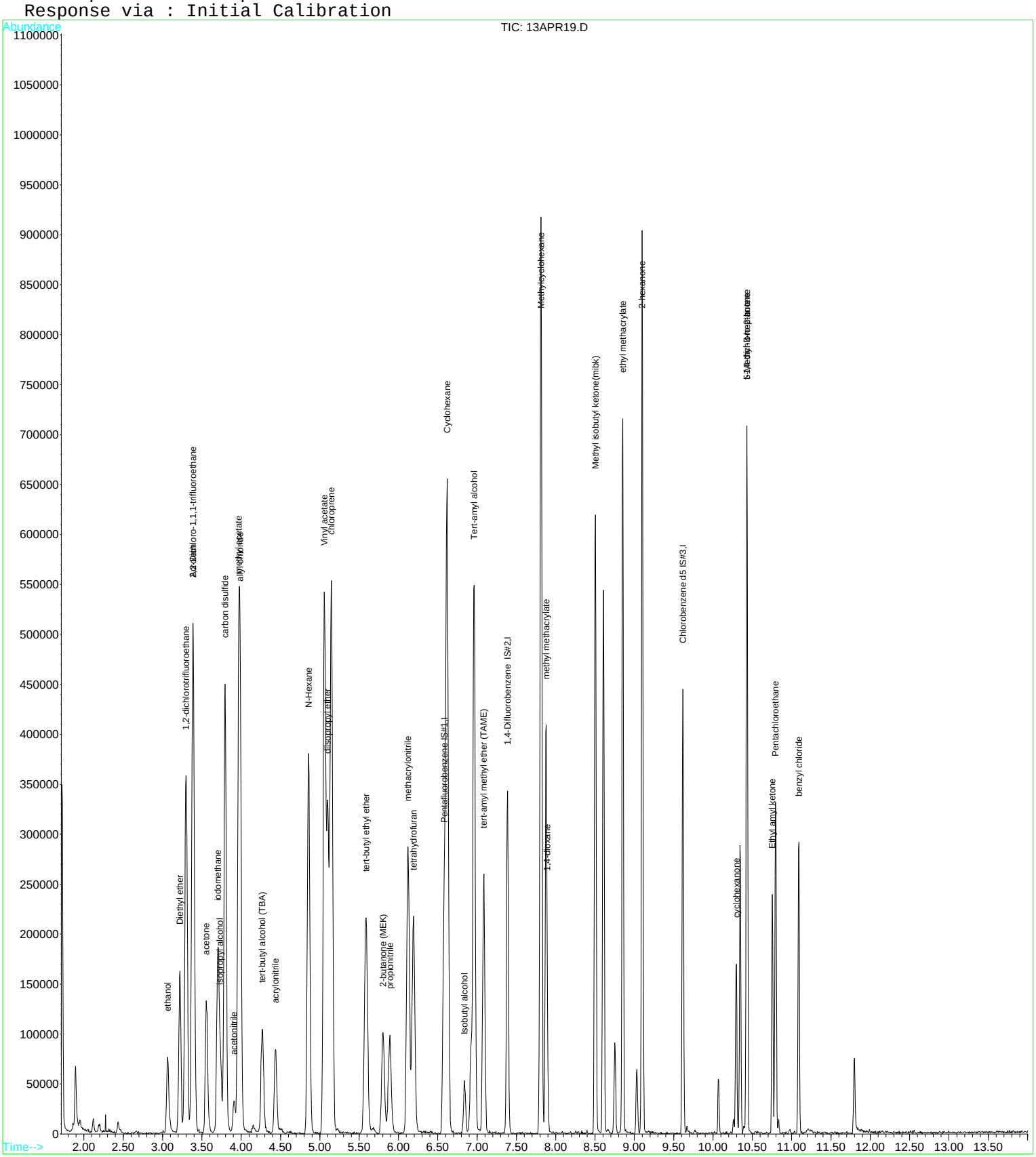
Target Compounds							Qvalue
2) ethanol	3.06	45	97989	4005.29	ug/L		90
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	358396	26.08	ug/L	#	97
4) 1,2-dichlorotrifluoroethan	3.29	67	239559	25.30	ug/L	#	91
5) Diethyl ether	3.22	59	106970	26.43	ug/L	#	79
6) isopropyl alcohol	3.73	45	97924	788.39	ug/L	#	82
7) Acrolein	3.39	56	64420	192.43	ug/L		84
8) acetone	3.55	43	187167	324.20	ug/L		90
9) tert-butyl alcohol (TBA)	4.27	59	161784	793.98	ug/L		100
10) acetonitrile	3.91	41	45687	156.18	ug/L	#	45
11) methyl acetate	3.96	43	513451	274.53	ug/L		96
12) allyl chloride	3.99	41	458208	31.68	ug/L		97
13) iodomethane	3.70	142	272176	28.07	ug/L		95
14) acrylonitrile	4.43	53	85024	77.88	ug/L		92
15) carbon disulfide	3.80	76	739098	30.63	ug/L		99
16) N-Hexane	4.86	57	255752	26.19	ug/L	#	77
17) diisopropyl ether	5.10	87	89940	14.75	ug/L		74
18) Vinyl acetate	5.06	43	1093753	172.81	ug/L		96
19) chloroprene	5.15	53	473591	31.57	ug/L		97
20) tert-butyl ethyl ether	5.59	59	293963	15.27	ug/L		97
21) 2-butanone (MEK)	5.80	43	180652	169.01	ug/L	#	74
22) propionitrile	5.89	54	151103	407.85	ug/L	#	64
23) Isobutyl alcohol	6.84	43	36160	417.06	ug/L	#	76
24) methacrylonitrile	6.12	67	170995	158.26	ug/L		90
25) Tert-amyl alcohol	6.96	59	401519	2653.28	ug/L	#	85
26) tetrahydrofuran	6.19	42	207667	307.30	ug/L		93
27) Cyclohexane	6.62	56	455356	25.36	ug/L		91
28) tert-amyl methyl ether (TA	7.09	73	184126	15.06	ug/L		95
30) methyl methacrylate	7.87	69	139608	70.02	ug/L		96
31) Methylcyclohexane	7.81	55	337662	23.85	ug/L		96
32) 1,4-dioxane	7.89	88	36994	1775.92	ug/L		86
33) Methyl isobutyl ketone(mib	8.50	43	353010	143.65	ug/L		91
34) ethyl methacrylate	8.85	69	303997	70.32	ug/L		98
35) 2-hexanone	9.10	43	459281	278.99	ug/L		91
37) 5-Methyl-3-heptanone	10.43	43	110599	50.43	ug/L		92
38) cyclohexanone	10.30	55	71147	468.16	ug/L		94
39) t-1,4-dichloro-2-butene	10.43	75	72370	71.80	ug/L		91
40) Ethyl amyl ketone	10.75	57	56114	26.99	ug/L	#	13
41) Pentachloroethane	10.80	167	50556	18.77	ug/L		92
42) benzyl chloride	11.09	91	172415	33.45	ug/L		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR19.D Vial: 19
Acq On : 13 Apr 2017 3:18 pm Operator: MGC
Sample : 1706245-CALA Inst : MS-V5
Misc : 1 VO-108-69834;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:49 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\31-1615\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR20.D Vial: 20
Acq On : 13 Apr 2017 3:41 pm Operator: MGC
Sample : 1706245-CALB Inst : MS-V5
Misc : 1 VO-108-69835;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:50 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173766	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	264175	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	67704	10.00	ug/L		0.00

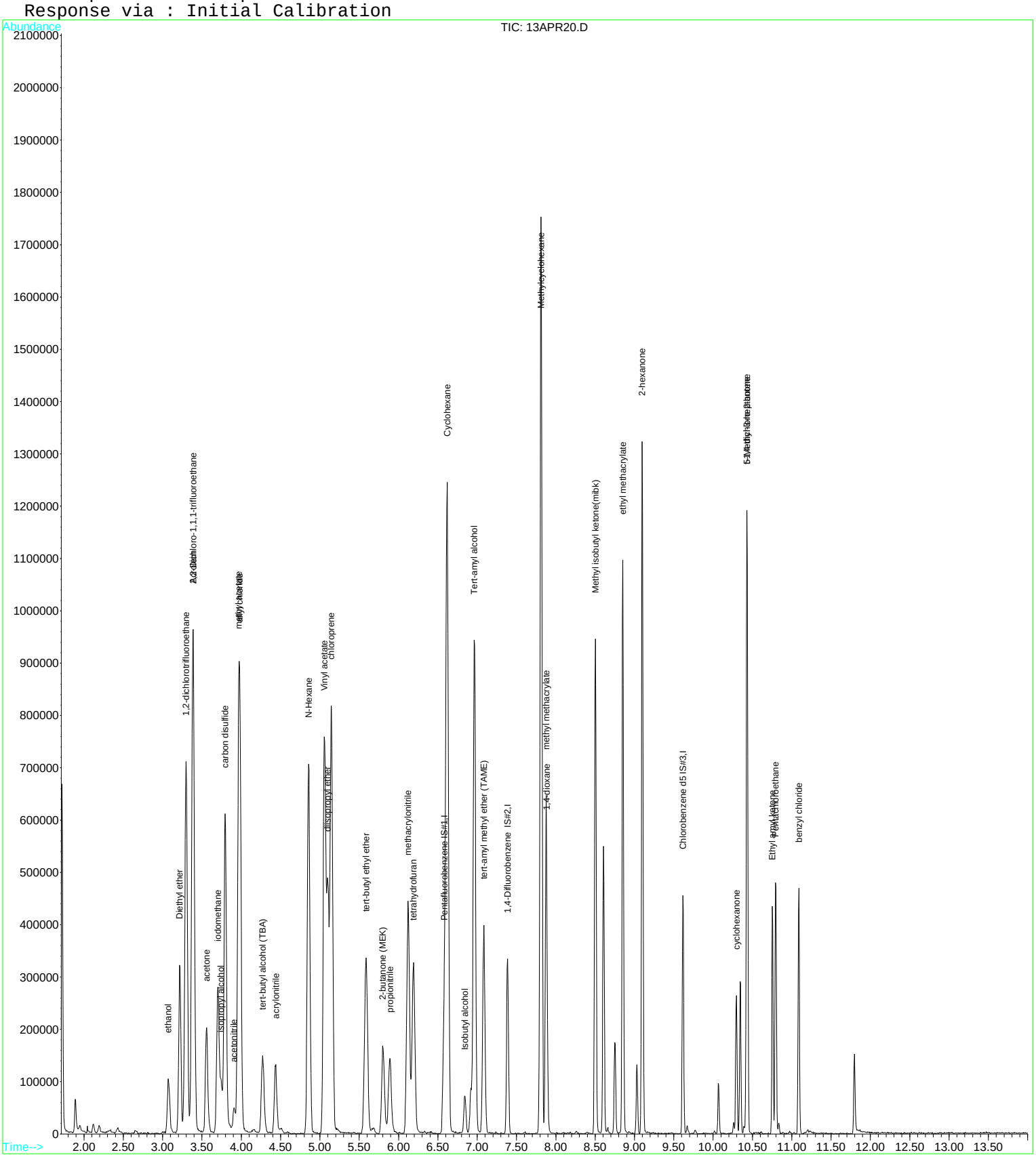
Target Compounds							Qvalue
2) ethanol	3.07	45	144606	5881.24	ug/L		92
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	691862	50.09	ug/L	#	95
4) 1,2-dichlorotrifluoroethan	3.30	67	458150	48.14	ug/L	#	91
5) Diethyl ether	3.22	59	213377	52.46	ug/L	#	76
6) isopropyl alcohol	3.74	45	138231	1107.34	ug/L	#	79
7) Acrolein	3.39	56	105350	313.12	ug/L		84
8) acetone	3.56	43	284695	490.67	ug/L		89
9) tert-butyl alcohol (TBA)	4.27	59	231972	1132.75	ug/L		100
10) acetonitrile	3.91	41	68920	234.43	ug/L	#	58
11) methyl acetate	3.96	43	948707	504.71	ug/L		96
12) allyl chloride	3.98	41	663355	45.64	ug/L		93
13) iodomethane	3.70	142	424888	43.61	ug/L		97
14) acrylonitrile	4.44	53	135898	123.85	ug/L		91
15) carbon disulfide	3.80	76	1055828	43.53	ug/L		96
16) N-Hexane	4.86	57	491120	50.04	ug/L	#	76
17) diisopropyl ether	5.10	87	141035	23.01	ug/L		65
18) Vinyl acetate	5.06	43	1609602	257.52	ug/L		95
19) chloroprene	5.15	53	700219	46.44	ug/L		96
20) tert-butyl ethyl ether	5.59	59	448889	23.20	ug/L		97
21) 2-butanone (MEK)	5.80	43	285658	268.76	ug/L	#	73
22) propionitrile	5.89	54	225228	604.89	ug/L	#	64
23) Isobutyl alcohol	6.84	43	56641	650.02	ug/L	#	78
24) methacrylonitrile	6.12	67	257536	237.17	ug/L		92
25) Tert-amyl alcohol	6.96	59	704008	4628.92	ug/L	#	83
26) tetrahydrofuran	6.18	42	314976	463.77	ug/L		92
27) Cyclohexane	6.62	56	869505	48.19	ug/L		90
28) tert-amyl methyl ether (TA	7.08	73	284482	23.15	ug/L		95
30) methyl methacrylate	7.88	69	223113	111.95	ug/L		97
31) Methylcyclohexane	7.81	55	640195	45.23	ug/L		98
32) 1,4-dioxane	7.89	88	51729	2484.28	ug/L		94
33) Methyl isobutyl ketone(mib	8.50	43	525043	213.74	ug/L		95
34) ethyl methacrylate	8.85	69	468723	108.46	ug/L		97
35) 2-hexanone	9.10	43	667617	405.71	ug/L		90
37) 5-Methyl-3-heptanone	10.44	43	203373	90.70	ug/L		91
38) cyclohexanone	10.30	55	103998	694.21	ug/L		94
39) t-1,4-dichloro-2-butene	10.42	75	113772	110.40	ug/L		86
40) Ethyl amyl ketone	10.75	57	110936	52.18	ug/L	#	8
41) Pentachloroethane	10.80	167	70848	25.73	ug/L		89
42) benzyl chloride	11.09	91	265939	50.47	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR20.D Vial: 20
Acq On : 13 Apr 2017 3:41 pm Operator: MGC
Sample : 1706245-CALB Inst : MS-V5
Misc : 1 VO-108-69835;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:50 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\31-1615\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR21.D Vial: 21
Acq On : 13 Apr 2017 4:04 pm Operator: MGC
Sample : 1706245-CALC Inst : MS-V5
Misc : 1 VO-108-69836;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:26 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Mon Apr 03 07:00:04 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	181000	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	269717	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	71392	10.00	ug/L		0.00

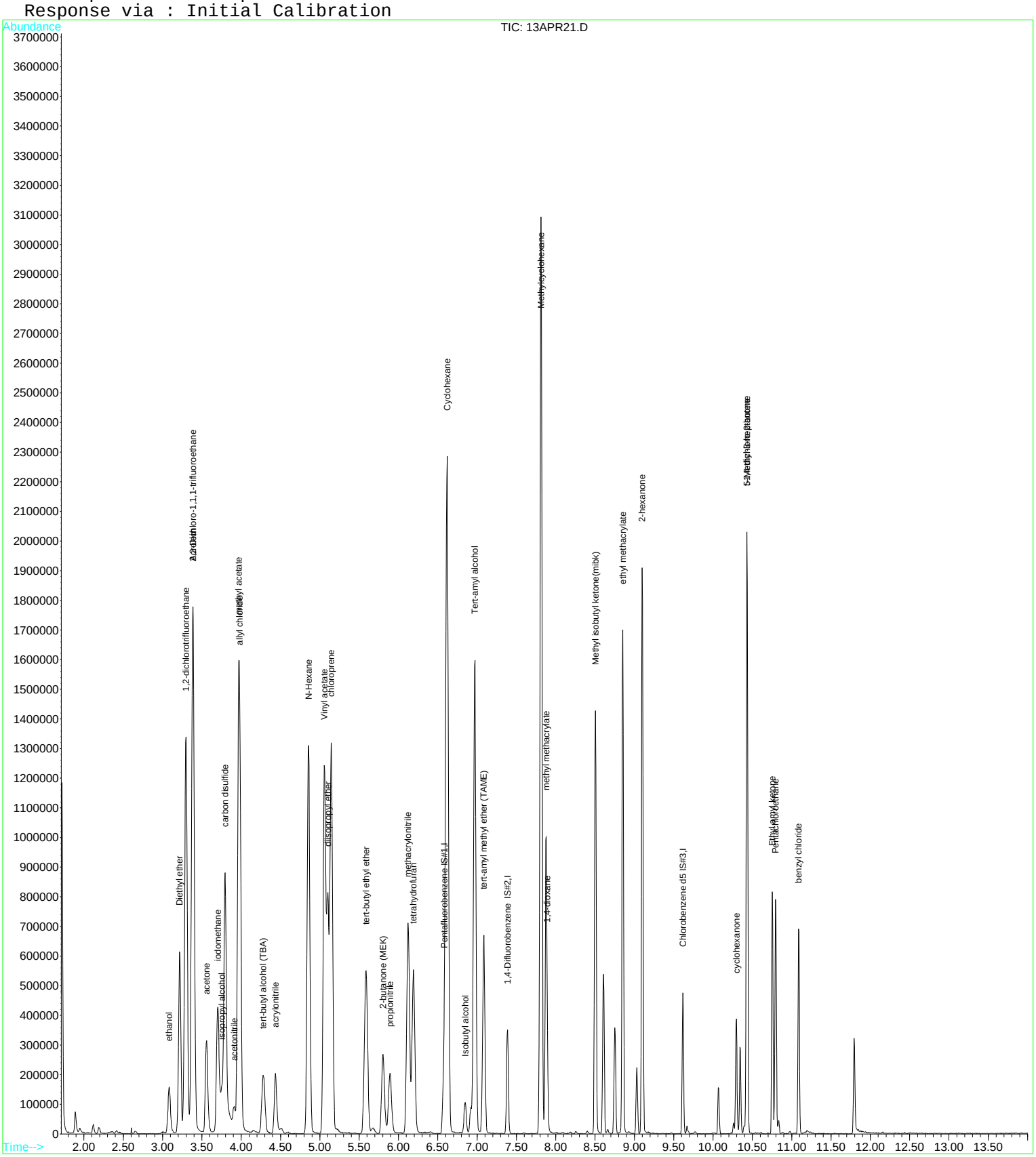
Target Compounds							Qvalue
2) ethanol	3.08	45	220238	8599.25	ug/L		90
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	1313544	91.30	ug/L	#	95
4) 1,2-dichlorotrifluoroethan	3.30	67	883406	89.11	ug/L	#	89
5) Diethyl ether	3.22	59	415590	98.09	ug/L	#	76
6) isopropyl alcohol	3.75	45	209659	1612.41	ug/L	#	1
7) Acrolein	3.39	56	155591	443.96	ug/L		85
8) acetone	3.56	43	452970	749.49	ug/L		89
9) tert-butyl alcohol (TBA)	4.28	59	364924	1710.75	ug/L		100
10) acetonitrile	3.91	41	106780	348.69	ug/L	#	52
11) methyl acetate	3.96	43	1752344	894.99	ug/L		92
12) allyl chloride	3.99	41	1030425	68.05	ug/L		90
13) iodomethane	3.70	142	711847	70.14	ug/L		97
14) acrylonitrile	4.44	53	210867	184.49	ug/L		89
15) carbon disulfide	3.80	76	1711073m	67.73	ug/L		
16) N-Hexane	4.86	57	926925	90.66	ug/L	#	77
17) diisopropyl ether	5.10	87	231491	36.26	ug/L		64
18) Vinyl acetate	5.06	43	2583091	401.96	ug/L	#	93
19) chloroprene	5.14	53	1127622	71.79	ug/L		94
20) tert-butyl ethyl ether	5.59	59	759959	37.71	ug/L		94
21) 2-butanone (MEK)	5.80	43	472689	429.87	ug/L	#	72
22) propionitrile	5.89	54	337575	870.38	ug/L	#	63
23) Isobutyl alcohol	6.85	43	80816	890.39	ug/L	#	81
24) methacrylonitrile	6.12	67	435326	384.87	ug/L		88
25) Tert-amyl alcohol	6.97	59	1222685	7717.96	ug/L	#	80
26) tetrahydrofuran	6.19	42	522555	738.66	ug/L		93
27) Cyclohexane	6.62	56	1609284	85.63	ug/L		88
28) tert-amyl methyl ether (TA	7.08	73	477622	37.32	ug/L		95
30) methyl methacrylate	7.87	69	361118	177.47	ug/L		97
31) Methylcyclohexane	7.81	55	1118978	77.44	ug/L		94
32) 1,4-dioxane	7.89	88	82958	3902.18	ug/L		87
33) Methyl isobutyl ketone(mib	8.50	43	822876	328.10	ug/L		95
34) ethyl methacrylate	8.85	69	747757	169.47	ug/L		97
35) 2-hexanone	9.10	43	990467	589.54	ug/L		88
37) 5-Methyl-3-heptanone	10.44	43	356947	150.97	ug/L		90
38) cyclohexanone	10.29	55	152947	991.12	ug/L		99
39) t-1,4-dichloro-2-butene	10.43	75	174845	160.90	ug/L		88
40) Ethyl amyl ketone	10.75	57	203211	90.65	ug/L	#	8
41) Pentachloroethane	10.79	167	120517	41.50	ug/L		93
42) benzyl chloride	11.09	91	415096	74.70	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR21.D Vial: 21
Acq On : 13 Apr 2017 4:04 pm Operator: MGC
Sample : 1706245-CALC Inst : MS-V5
Misc : 1 VO-108-69836;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:26 2017 Quant Results File: 82605X.RES

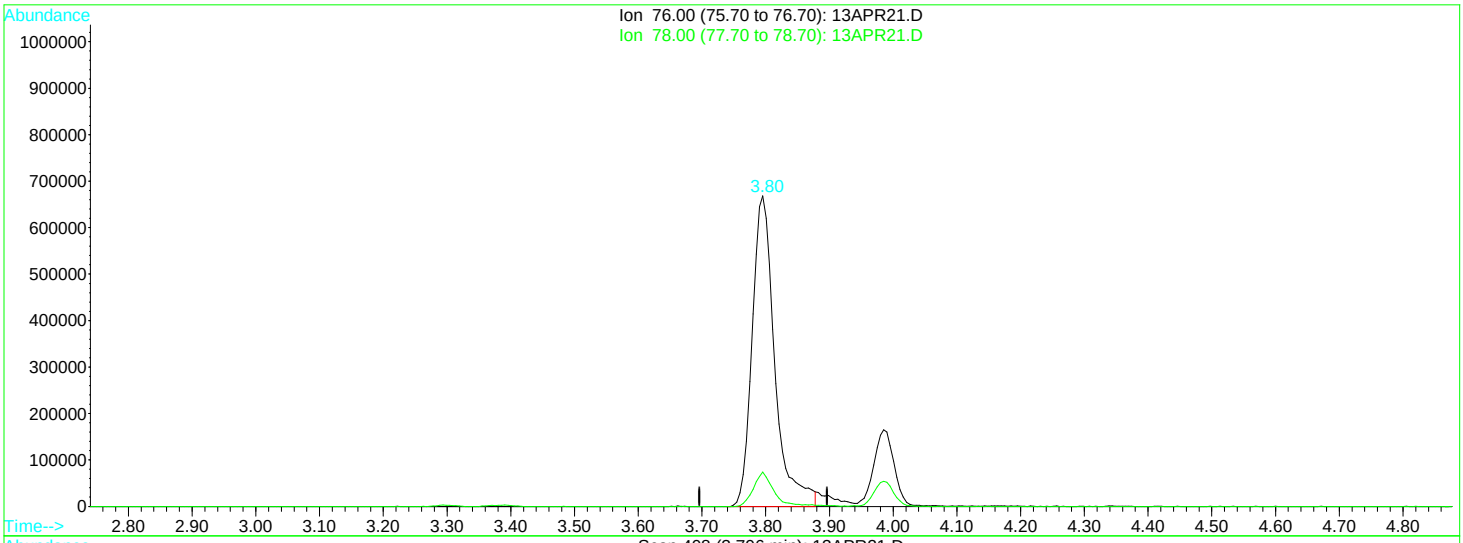
Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:25:28 2017
Response via : Initial Calibration

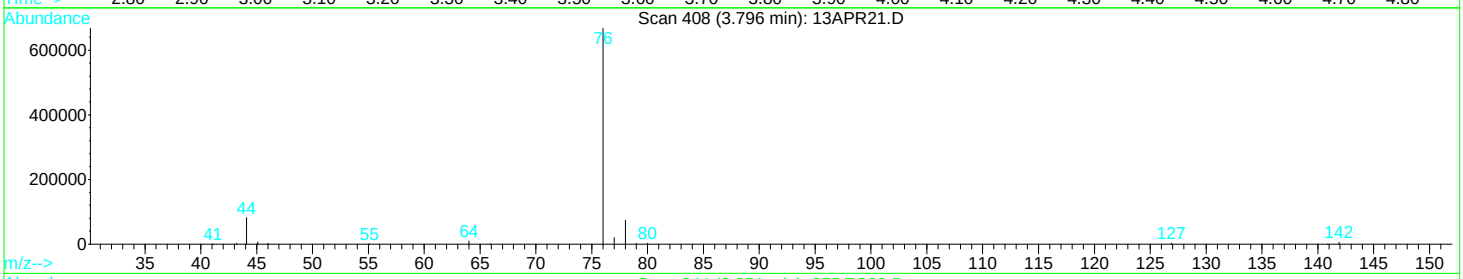


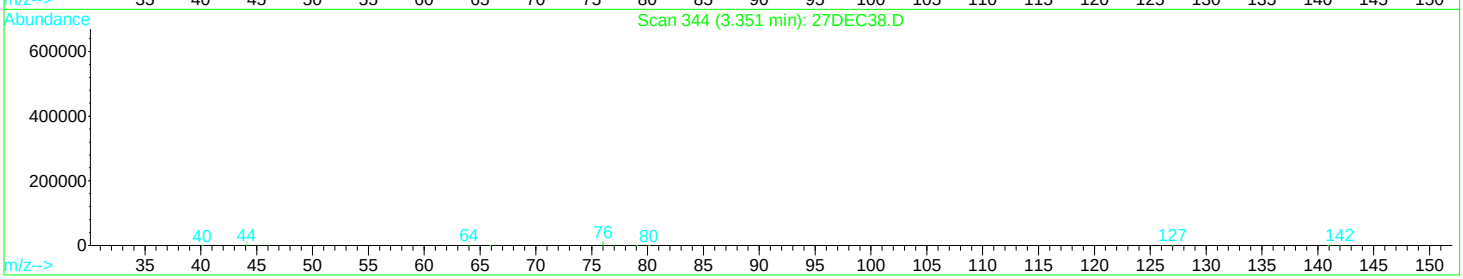
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR21.D Vial: 21
Acq On : 13 Apr 2017 4:04 pm Operator: MGC
Sample : 1706245-CALC Inst : MS-V5
Misc : 1 VO-108-69836;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:50 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:23:15 2017
Response via : Multiple Level Calibration







TIC: 13APR21.D

(15) carbon disulfide

3.80min 65.28ug/L

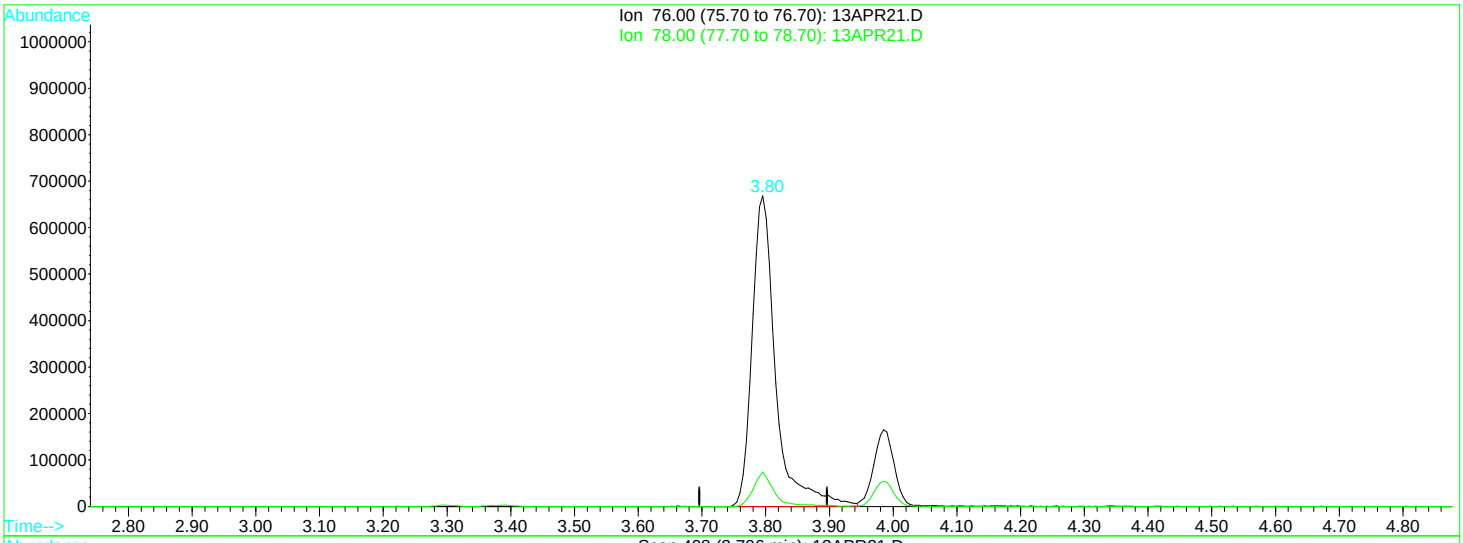
response 1649180

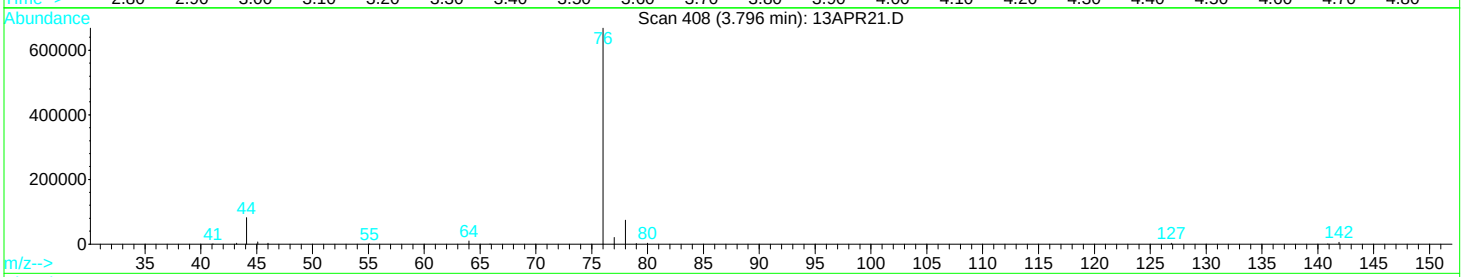
Ion	Exp%	Act%
76.00	100	100
78.00	8.60	9.88
0.00	0.00	0.00
0.00	0.00	0.00

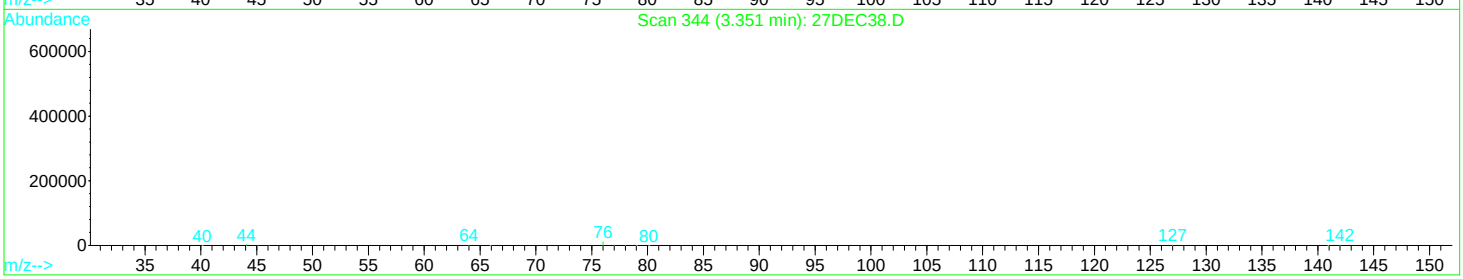
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR21.D Vial: 21
Acq On : 13 Apr 2017 4:04 pm Operator: MGC
Sample : 1706245-CALC Inst : MS-V5
Misc : 1 VO-108-69836;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:26 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:23:15 2017
Response via : Multiple Level Calibration







TIC: 13APR21.D

(15) carbon disulfide

3.80min 67.73ug/L m

response 1711073

Ion	Exp%	Act%
76.00	100	100
78.00	8.60	9.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR28.D Vial: 28
Acq On : 13 Apr 2017 6:46 pm Operator: MGC
Sample : 1706245-CALD Inst : MS-V5
Misc : 1 VO-108-69838;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:08 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration
DataAcq Meth : 82605

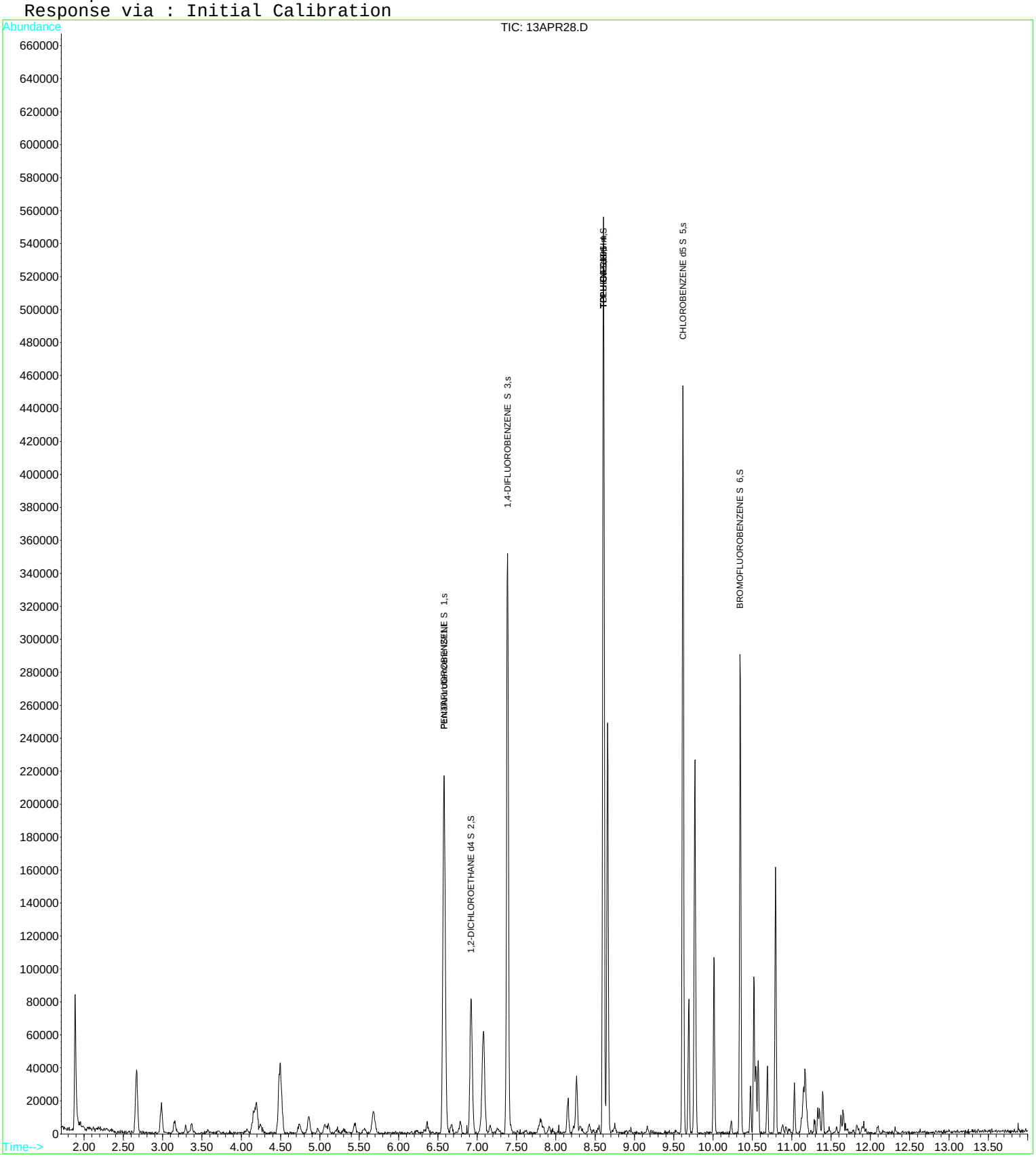
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	179688	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.58	TIC	477519m	4.41	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	175248m	2.41	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.39	TIC	597971m	4.84	ug/L	0.00
5) TOLUENE d8 S 4	8.61	TIC	771538m	7.42	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	565762m	7.29	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	358116m	7.55	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	8.61	TIC	2533546m	42.59	ug/L	
9) TPPH C6-C10	8.61	TIC	1798518m	43.05	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR28.D Vial: 28
Acq On : 13 Apr 2017 6:46 pm Operator: MGC
Sample : 1706245-CALD Inst : MS-V5
Misc : 1 VO-108-69838;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:08 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\27-1922\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR29.D Vial: 29
Acq On : 13 Apr 2017 7:09 pm Operator: MGC
Sample : 1706245-CALE Inst : MS-V5
Misc : 1 VO-108-69839;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:09 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration
DataAcq Meth : 82605

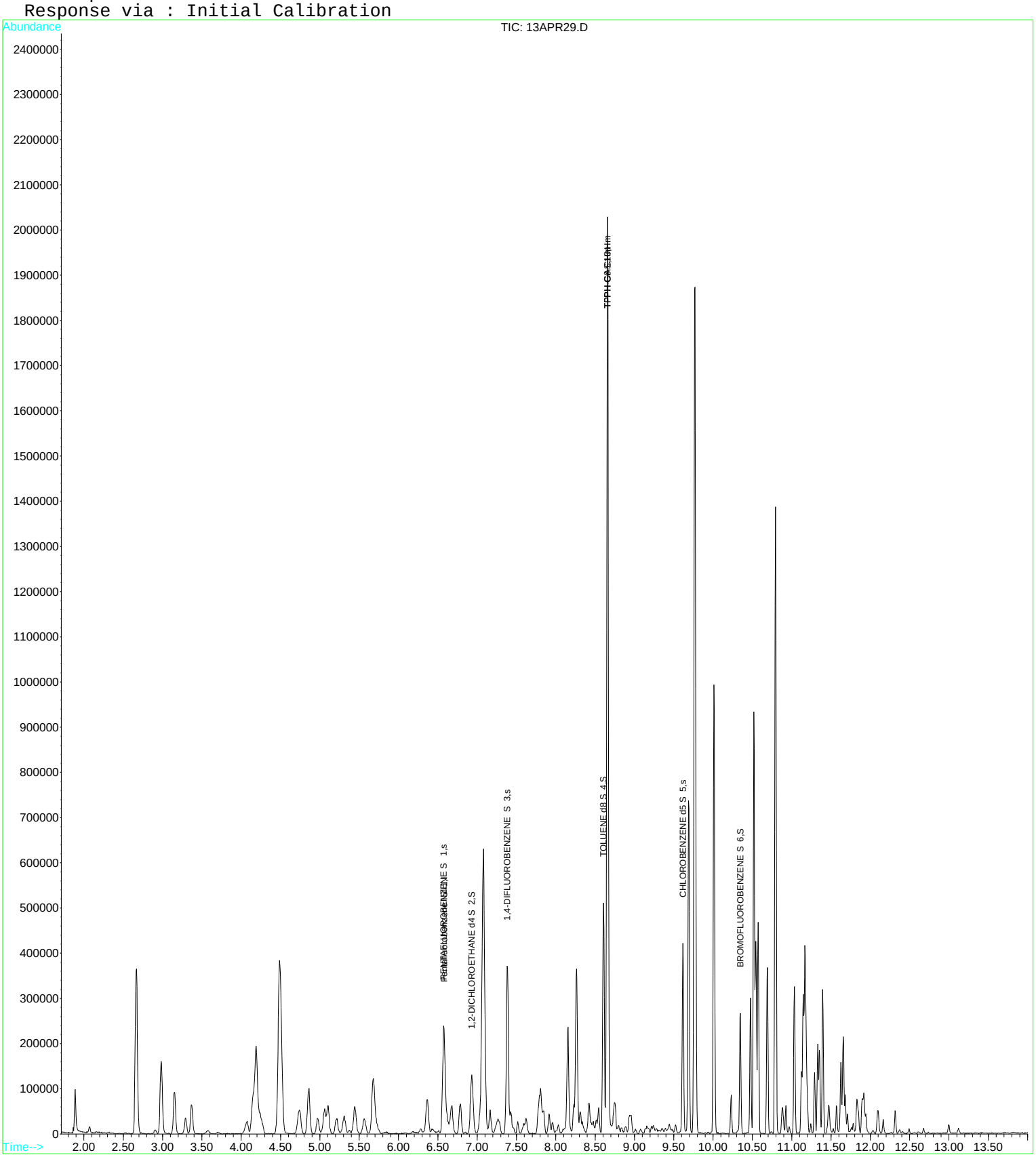
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	154983	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	618738m	6.62	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	322071m	5.13	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	703797m	6.61	ug/L	0.00
5) TOLUENE d8 S 4	8.61	TIC	745679m	8.31	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	548064m	8.18	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	345993m	8.45	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	8.66	TIC	25444338m	495.87	ug/L	
9) TPPH C6-C10	8.66	TIC	17589733m	488.19	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR29.D Vial: 29
Acq On : 13 Apr 2017 7:09 pm Operator: MGC
Sample : 1706245-CALE Inst : MS-V5
Misc : 1 VO-108-69839;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:09 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\27-1922\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR30.D Vial: 30
Acq On : 13 Apr 2017 7:32 pm Operator: MGC
Sample : 1706245-CALF Inst : MS-V5
Misc : 1 VO-108-69840;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:10 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177296	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.58	TIC	900789m	8.42	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	527201m	7.34	ug/L	0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	973537m	7.99	ug/L	0.00
5) TOLUENE d8 S 4	8.61	TIC	886113m	8.64	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	633383m	8.27	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	409447m	8.75	ug/L	0.00

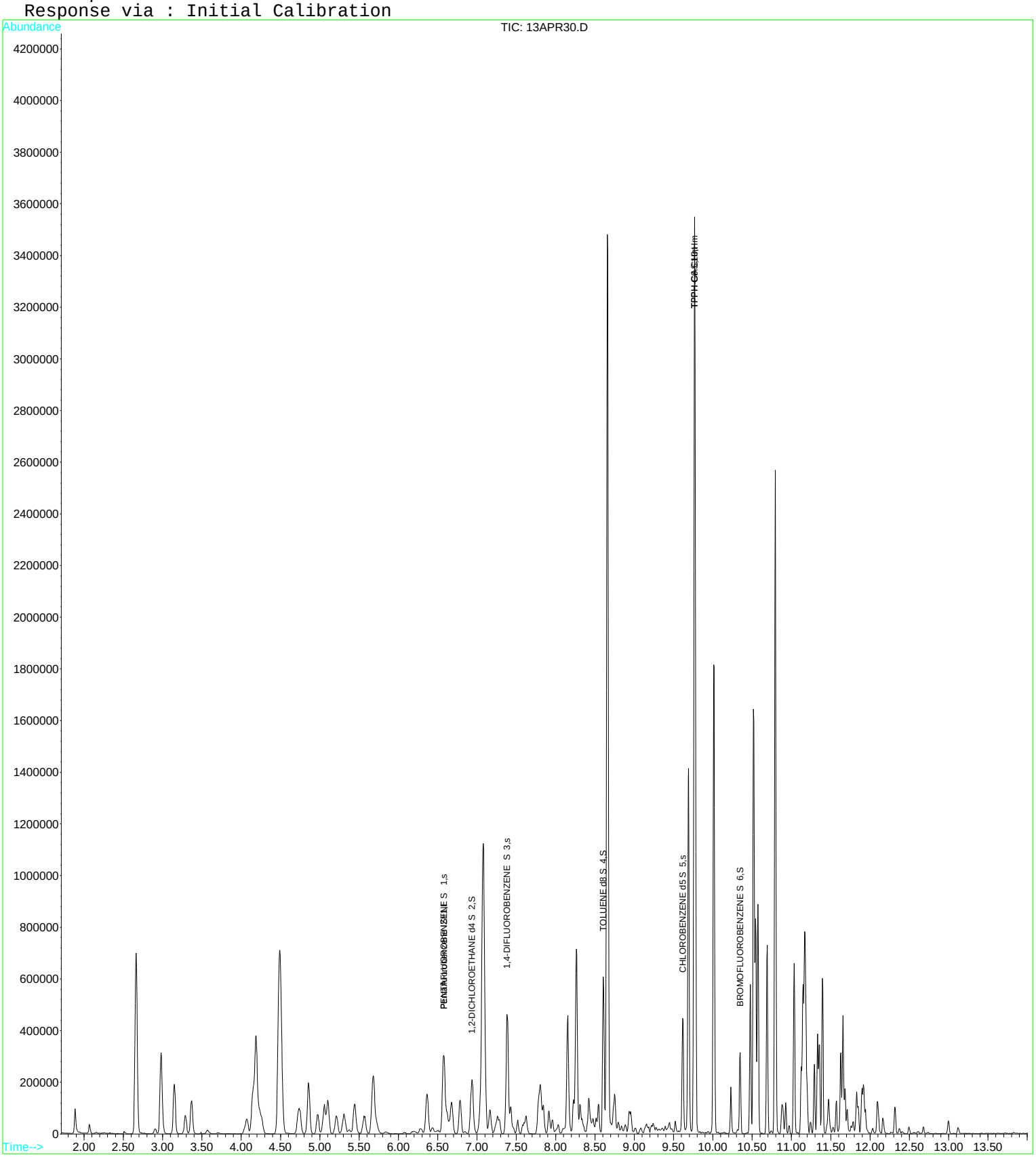
Target Compounds						Qvalue
8) TPPH-GAS	9.77	TIC	49315895m	840.13	ug/L	
9) TPPH C6-C10	9.77	TIC	33840225m	821.01	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR30.D Vial: 30
Acq On : 13 Apr 2017 7:32 pm Operator: MGC
Sample : 1706245-CALF Inst : MS-V5
Misc : 1 VO-108-69840;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:10 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\27-1922\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR31.D Vial: 31
Acq On : 13 Apr 2017 7:55 pm Operator: MGC
Sample : 1706245-CALG Inst : MS-V5
Misc : 1 VO-108-69841;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:11 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	181779	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1167176m	10.64	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	718205m	9.76	ug/L	0.02
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1187895m	9.51	ug/L	0.00
5) TOLUENE d8 S 4	8.61	TIC	961105m	9.14	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	717925m	9.14	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	419746m	8.74	ug/L	0.00

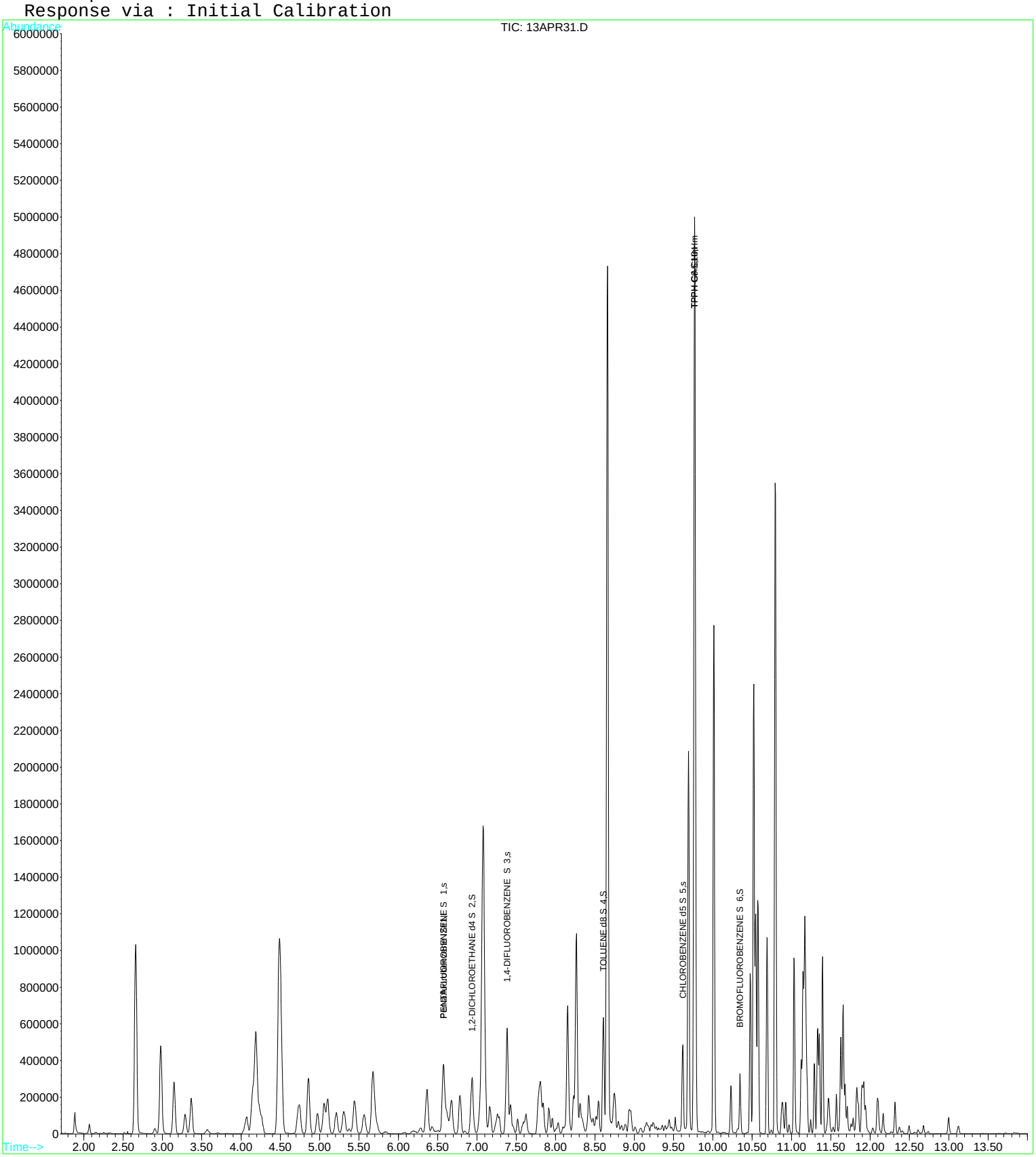
Target Compounds						Qvalue
8) TPPH-GAS	9.77	TIC	74310328m	1234.71	ug/L	
9) TPPH C6-C10	9.77	TIC	50766044m	1201.27	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR31.D Vial: 31
Acq On : 13 Apr 2017 7:55 pm Operator: MGC
Sample : 1706245-CALG Inst : MS-V5
Misc : 1 VO-108-69841;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:11 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\27-1922\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR32.D Vial: 32
Acq On : 13 Apr 2017 8:18 pm Operator: MGC
Sample : 1706245-CALH Inst : MS-V5
Misc : 1 VO-108-69842;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:11 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration
DataAcq Meth : 82605

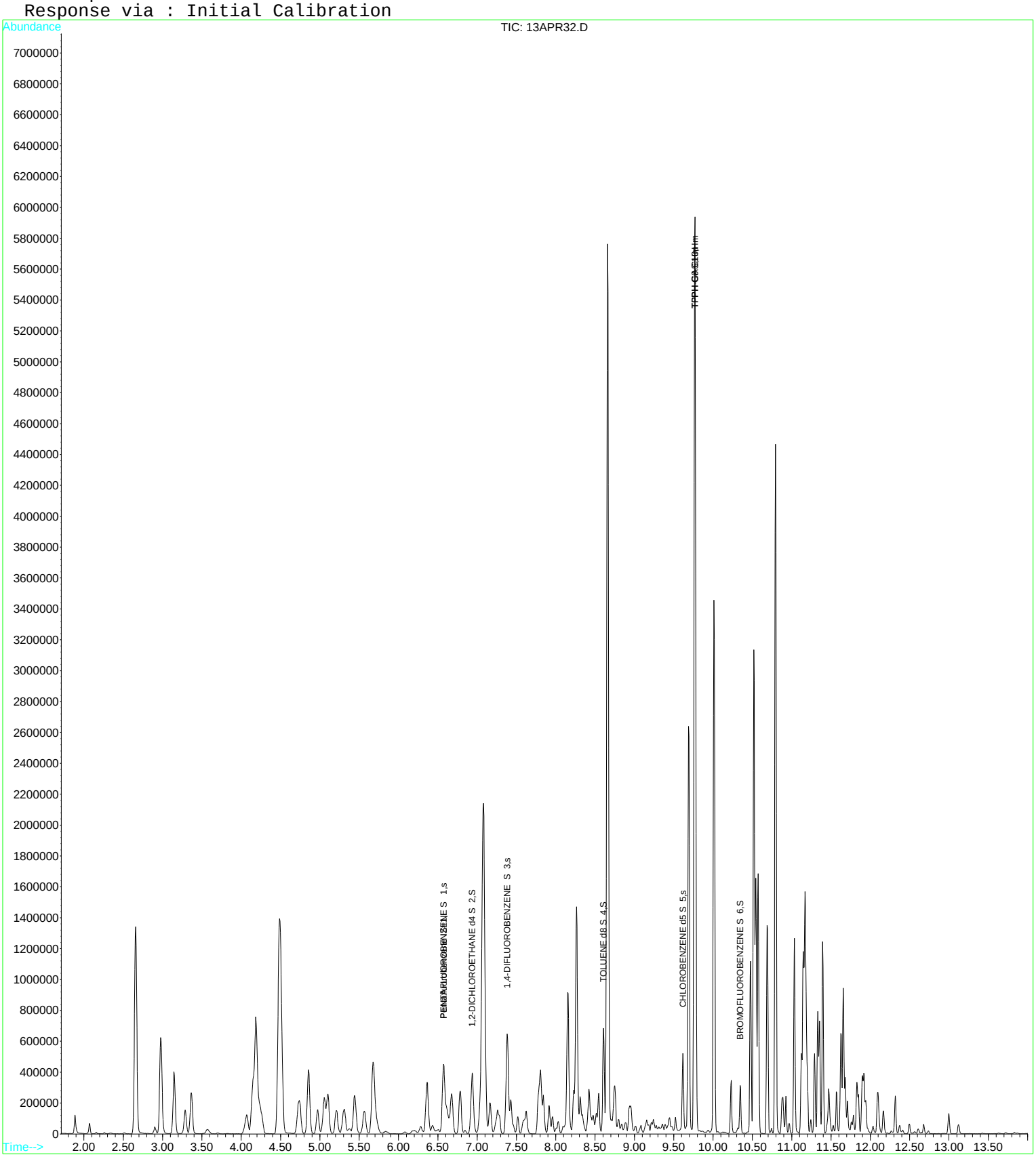
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185048	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1471947m	13.19	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	916918m	12.24	ug/L	0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1470254m	11.57	ug/L	0.00
5) TOLUENE d8 S 4	8.61	TIC	1083238m	10.12	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	749400m	9.37	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	423513m	8.67	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.77	TIC	97657958m	1593.98	ug/L	
9) TPPH C6-C10	9.77	TIC	66375975m	1542.90	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR32.D Vial: 32
Acq On : 13 Apr 2017 8:18 pm Operator: MGC
Sample : 1706245-CALH Inst : MS-V5
Misc : 1 VO-108-69842;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:11 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\27-1922\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR33.D Vial: 33
Acq On : 13 Apr 2017 8:42 pm Operator: MGC
Sample : 1706245-CALI Inst : MS-V5
Misc : 1 VO-108-69843;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:12 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration
DataAcq Meth : 82605

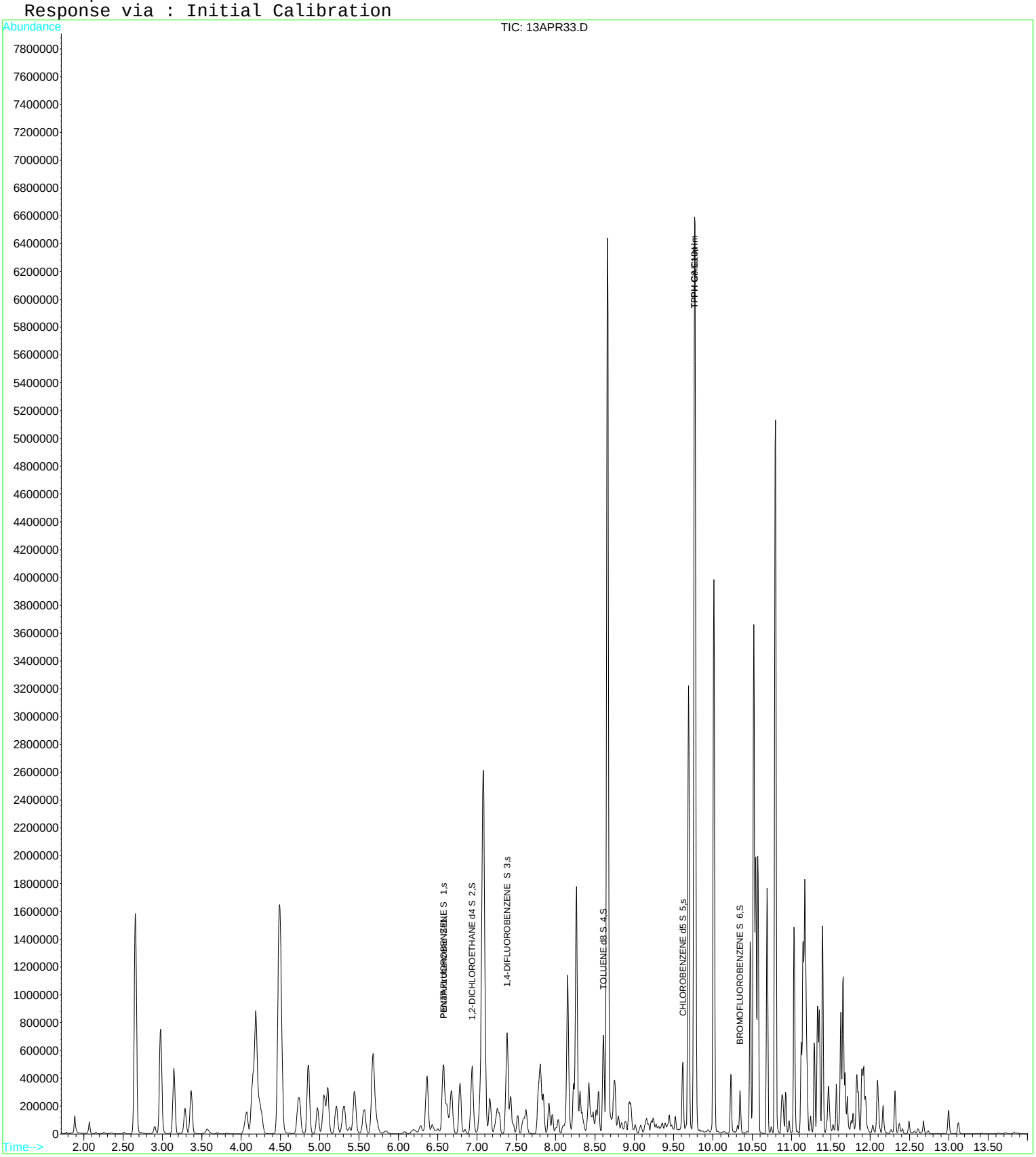
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	189454	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1688726m	14.78	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	1119444m	14.59	ug/L	0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1643071m	12.62	ug/L	0.00
5) TOLUENE d8 S 4	8.61	TIC	1118614m	10.20	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	782140m	9.55	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	405392m	8.10	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.77	TIC	117956731m	1880.52	ug/L	
9) TPPH C6-C10	9.77	TIC	79895028m	1813.96	ug/L	

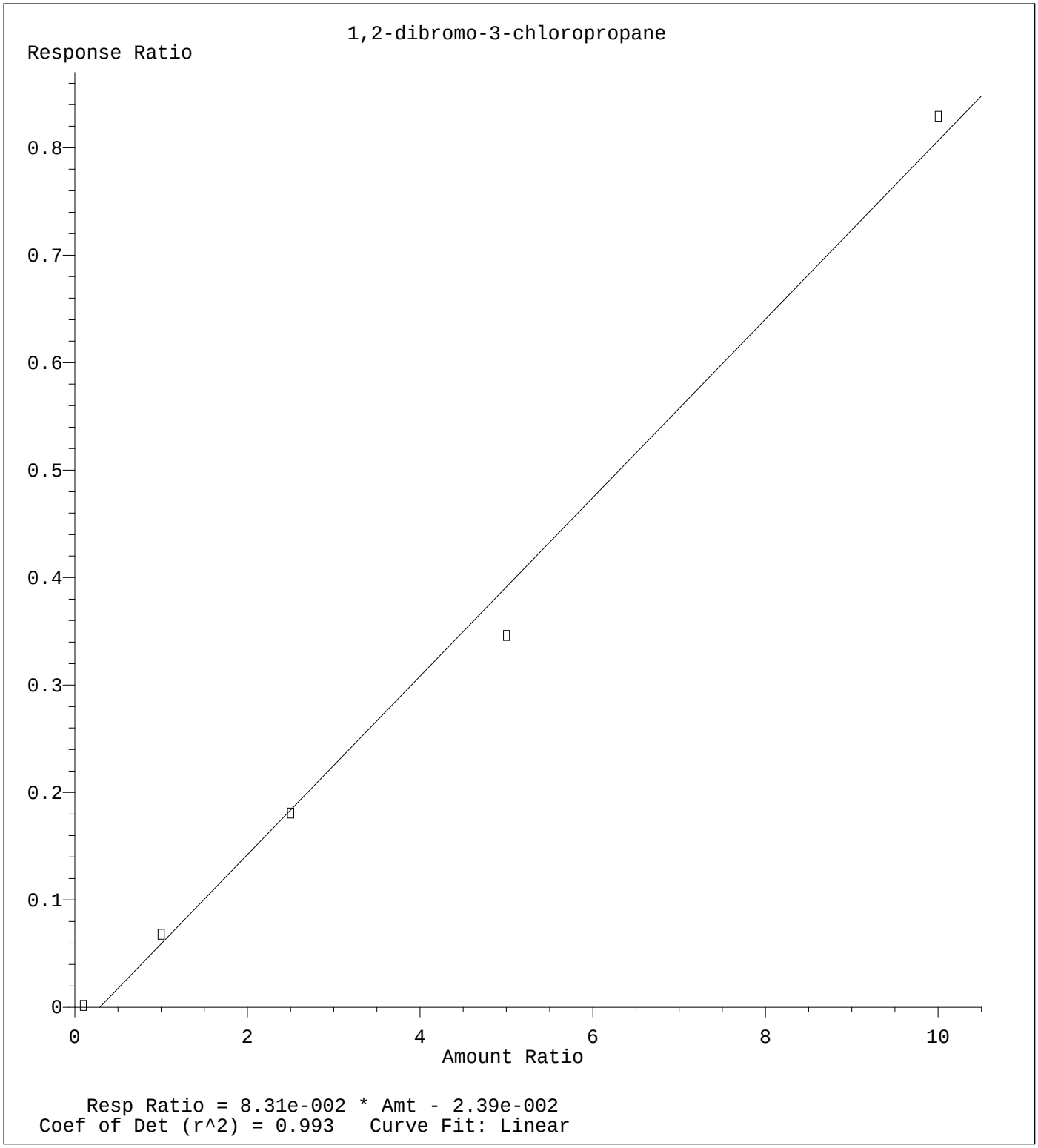
(#) = qualifier out of range (m) = manual integration

Quantitation Report

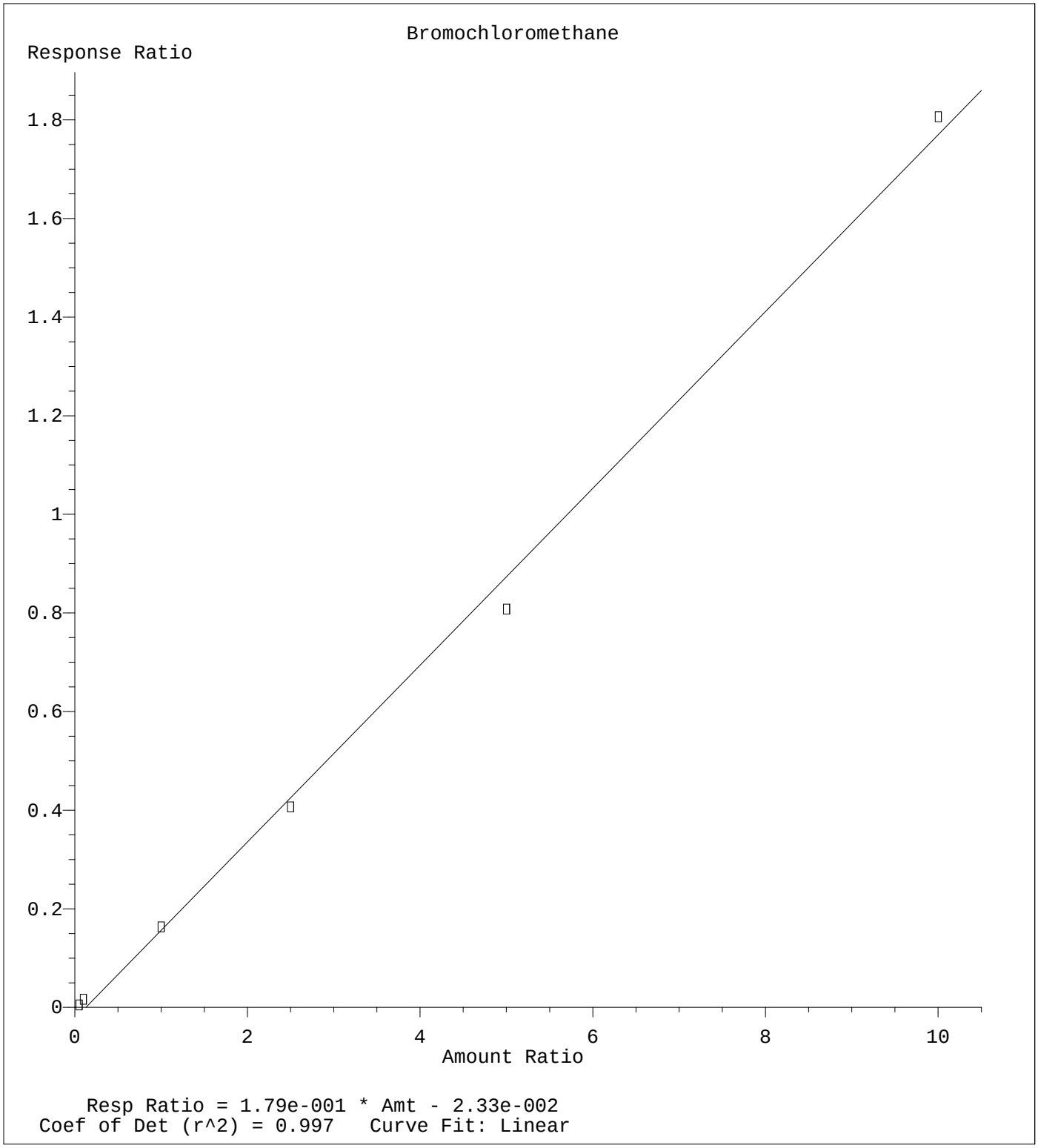
Data File : D:\DATA\MS-V5\APR2017\APR13\13APR33.D Vial: 33
Acq On : 13 Apr 2017 8:42 pm Operator: MGC
Sample : 1706245-CALI Inst : MS-V5
Misc : 1 VO-108-69843;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:12 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201703\27-1922\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Mar 28 05:45:53 2017
Response via : Initial Calibration

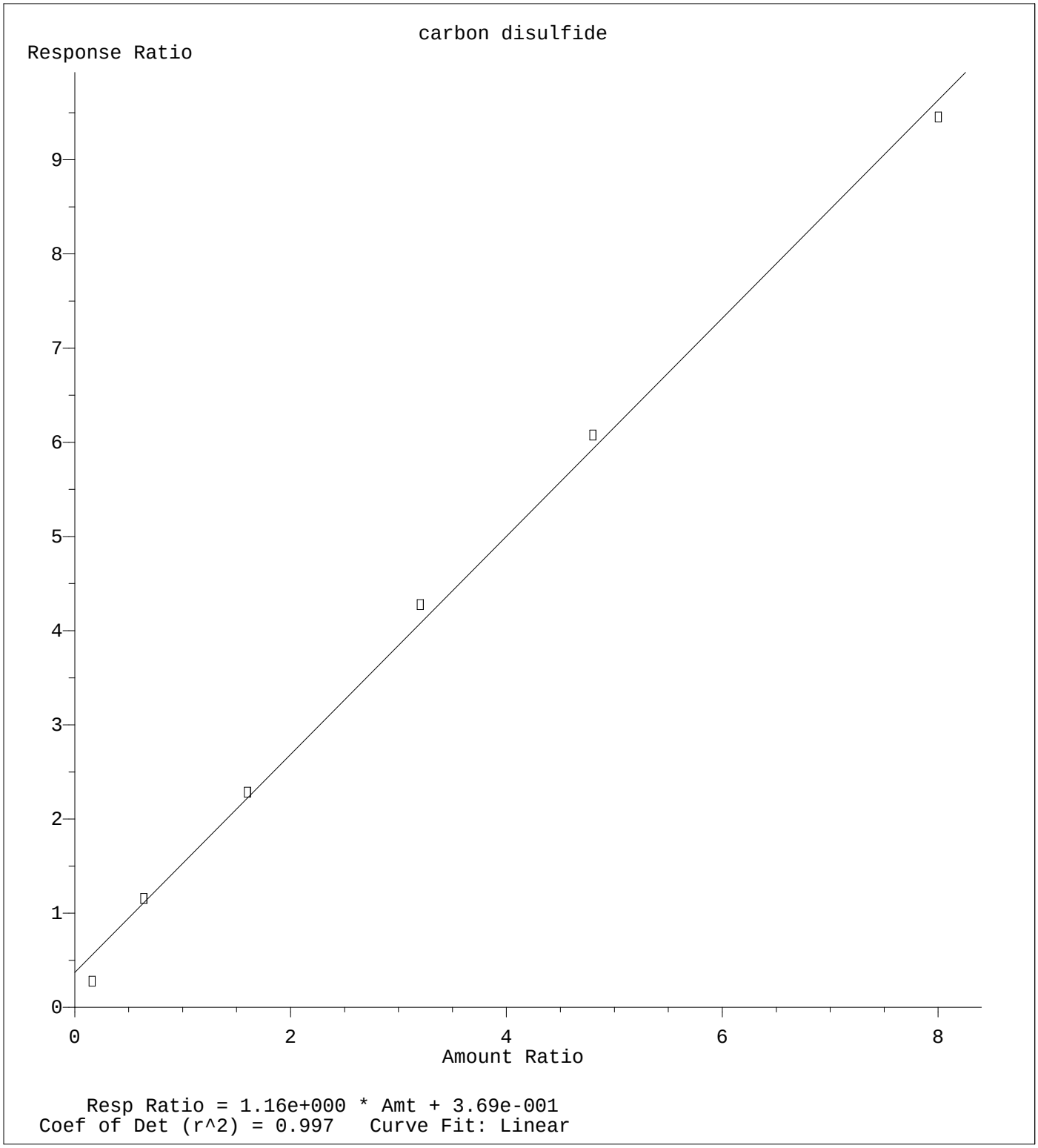




Method Name: C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M
Calibration Table Last Updated: Thu Apr 13 11:16:24 2017



Method Name: C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M
Calibration Table Last Updated: Thu Apr 13 11:16:24 2017



Method Name: C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M
Calibration Table Last Updated: Fri Apr 14 05:28:02 2017

Raw Data - ICV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR12.D Vial: 12
Acq On : 13 Apr 2017 12:37 pm Operator: MGC
Sample : 1706245-ICV1 Inst : MS-V5
Misc : 1 VO-108-69830;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 12:51 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	169993	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	253766	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	63585	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.93	65	48511	8.68	ug/L	0.01
Spiked Amount 10.000 Range 75 - 125 Recovery = 86.80%						
31) Toluene d8 SMC#2	8.61	98	290313	10.27	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 102.70%						
49) Bromofluorobenzene SMC#3	10.35	95	79528	9.47	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 94.70%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	223645	29.22	ug/L	94
3) Chloromethane	1.95	50	289843	26.84	ug/L	89
4) Vinyl chloride	2.08	62	288704	26.10	ug/L #	65
5) Bromomethane	2.44	94	169034	27.16	ug/L #	96
6) Chloroethane	2.57	64	169000	25.95	ug/L #	72
7) Trichlorofluoromethane	2.87	101	277104	25.24	ug/L	88
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	175854	25.91	ug/L #	76
9) 1,1-Dichloroethene	3.52	61	322723	24.33	ug/L #	82
10) Methylene chloride	4.15	84	167955	25.97	ug/L	83
11) MTBE	4.49	73	246816	23.11	ug/L #	76
12) T-1,2-dichloroethene	4.51	96	212404	26.41	ug/L	93
13) 1,1-Dichloroethane	5.06	63	421150	24.47	ug/L	96
14) 2,2-Dichloropropane	5.85	77	298405	24.30	ug/L	89
15) Cis-1,2-dichloroethene	5.83	96	215773	25.26	ug/L	95
16) Bromochloromethane	6.19	128	71966	24.91	ug/L	70
17) Chloroform	6.33	83	323963	23.80	ug/L	96
18) 1,1,1-Trichloroethane	6.54	97	298673	24.68	ug/L #	83
19) 1,1-Dichloropropene	6.73	75	264402	24.85	ug/L	92
20) Carbon tetrachloride	6.72	119	215200	24.69	ug/L #	82
22) 1,2-Dichloroethane	7.01	62	159103	22.21	ug/L #	91
23) Benzene	6.94	78	783584	24.42	ug/L #	2
25) Trichloroethene	7.61	130	212077	25.18	ug/L #	92
26) 1,2-Dichloropropane	7.84	63	215597	25.93	ug/L #	78
27) Dibromomethane	7.91	93	61489	26.72	ug/L #	58
28) Bromodichloromethane	8.06	83	195813	25.91	ug/L	92
29) 2-ceve	8.28	63	203287	125.79	ug/L #	74
30) Cis-1,3-dichloropropene	8.41	75	244200	24.64	ug/L #	88
32) Toluene	8.66	92	491204	26.15	ug/L	81
33) Trans-1,3-dichloropropene	8.83	75	164491	23.71	ug/L #	86
34) 1,1,2-Trichloroethane	8.97	97	87938	24.14	ug/L	91
35) Tetrachloroethene (PCE)	9.04	166	208492	25.21	ug/L	87
36) 1,3-Dichloropropane	9.08	76	146692	23.95	ug/L	86
37) Dibromochloromethane	9.24	129	103977	25.03	ug/L #	83
38) 1,2-Dibromoethane	9.32	107	84630	24.62	ug/L	91
40) Chlorobenzene	9.64	112	451174	26.17	ug/L	79
41) 1,1,1,2-Tetrachloroethane	9.69	131	135922	25.19	ug/L	73
42) Ethylbenzene	9.69	106	283390	26.22	ug/L	80
43) P+m-Xylene	9.77	106	670501	51.56	ug/L	87
44) O-Xylene	10.02	106	322065	24.83	ug/L	99
45) Styrene	10.03	104	452080	25.00	ug/L	92
46) Bromoform	10.16	173	46919	26.84	ug/L #	33
47) Isopropylbenzene	10.23	105	743590	23.75	ug/L	98
48) 1,1,2,2-Tetrachloroethane	10.41	83	79110	26.72	ug/L #	55
50) 1,2,3-Trichloropropane	10.45	110	18296	24.62	ug/L #	100
51) n-propylbenzene	10.48	91	847025	25.63	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR12.D Vial: 12
Acq On : 13 Apr 2017 12:37 pm Operator: MGC
Sample : 1706245-ICV1 Inst : MS-V5
Misc : 1 VO-108-69830;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 12:51 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

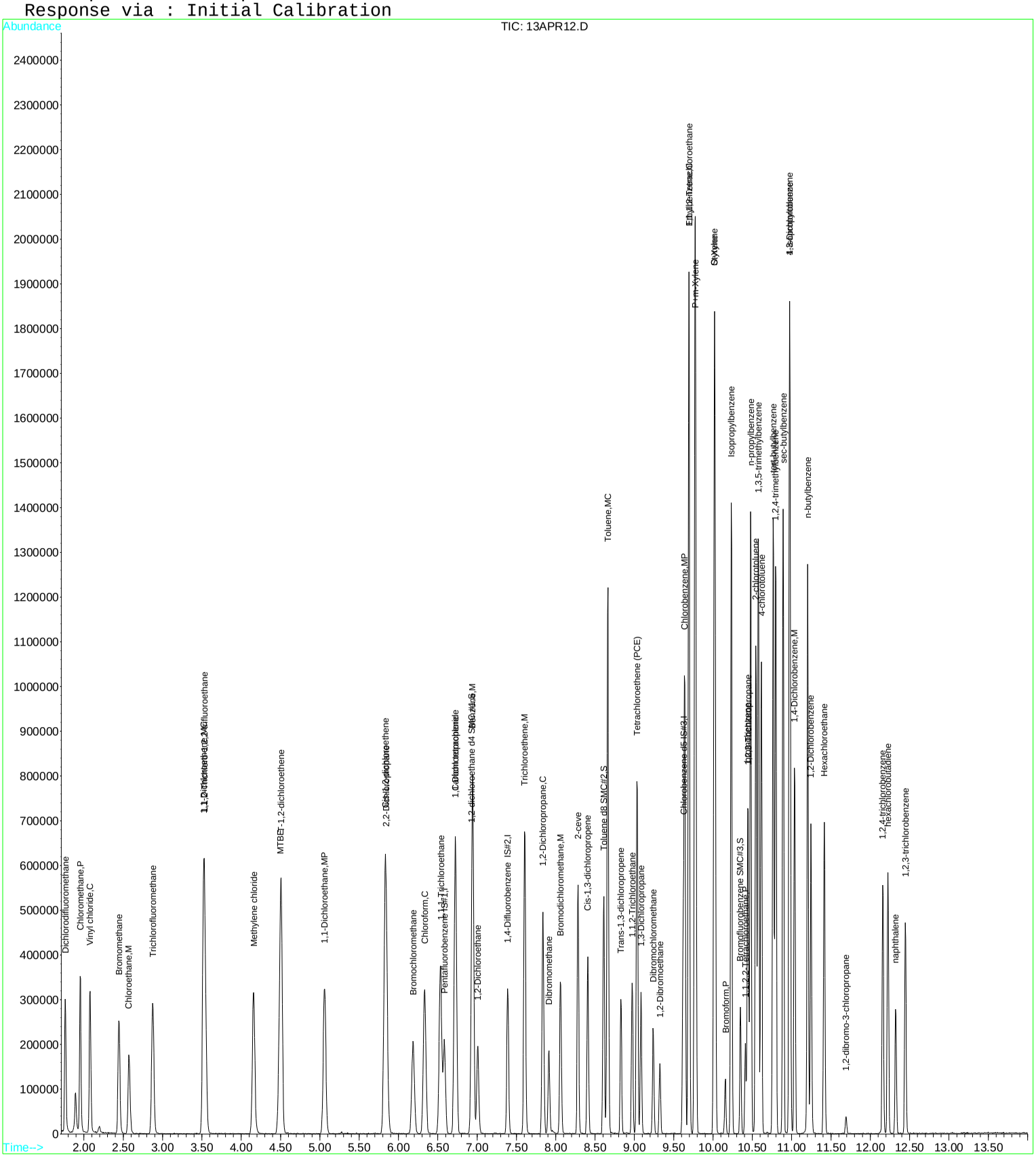
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	157548	24.70	ug/L		97
53)	1,3,5-trimethylbenzene	10.57	105	587311	25.06	ug/L		94
54)	2-chlorotoluene	10.54	91	555639	24.48	ug/L		91
55)	4-chlorotoluene	10.62	91	496800	25.86	ug/L		97
56)	tert-butylbenzene	10.76	119	645372	25.26	ug/L		85
57)	1,2,4-trimethylbenzene	10.79	105	560056	24.80	ug/L		99
58)	sec-butylbenzene	10.89	105	774038	24.56	ug/L		100
59)	4-isopropyltoluene	10.97	119	644438	25.55	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	279099	25.27	ug/L		89
61)	1,4-Dichlorobenzene	11.04	146	271689	25.34	ug/L		95
62)	n-butylbenzene	11.20	91	542832	25.90	ug/L		97
63)	1,2-Dichlorobenzene	11.25	146	229563	24.23	ug/L	#	87
64)	Hexachloroethane	11.41	117	106138	27.71	ug/L	#	71
65)	1,2-dibromo-3-chloropropan	11.69	75	9922	21.66	ug/L	#	1
66)	1,2,4-trichlorobenzene	12.16	180	159329	22.06	ug/L		94
67)	hexachlorobutadiene	12.22	225	104998	22.93	ug/L	#	89
68)	naphthalene	12.33	128	190372	22.54	ug/L		100
69)	1,2,3-trichlorobenzene	12.45	180	134989	22.23	ug/L	#	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR12.D Vial: 12
Acq On : 13 Apr 2017 12:37 pm Operator: MGC
Sample : 1706245-ICV1 Inst : MS-V5
Misc : 1 VO-108-69830;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 12:51 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR42.D Vial: 4
Acq On : 14 Apr 2017 5:24 am Operator: MGC
Sample : 1706245-ICV2 Inst : MS-V5
Misc : 1 VO-108-69837;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:51 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	202520	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	306112	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	73276	10.00	ug/L	0.00

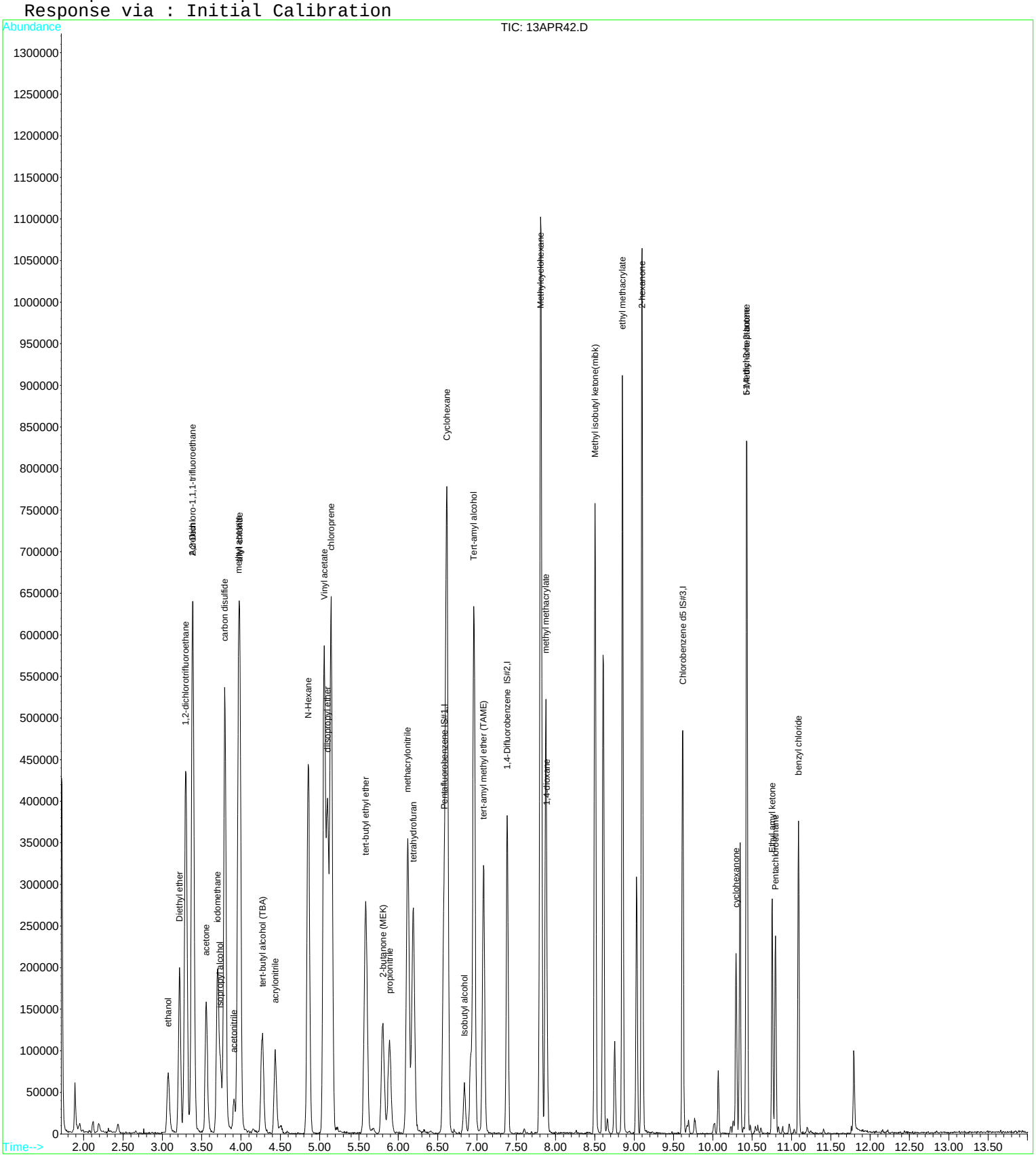
Target Compounds						Qvalue
2) ethanol	3.08	45	104248	3733.18	ug/L	100
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	467152	27.11	ug/L	98
4) 1,2-dichlorotrifluoroethan	3.30	67	303198	25.82	ug/L	94
5) Diethyl ether	3.22	59	129336	25.57	ug/L	97
6) isopropyl alcohol	3.74	45	101924	747.39	ug/L	98
7) Acrolein	3.39	56	73961	190.23	ug/L	98
8) acetone	3.56	43	215845	298.25	ug/L	97
9) tert-butyl alcohol (TBA)	4.27	59	193622	850.33	ug/L	100
10) acetonitrile	3.92	41	52407	151.79	ug/L	93
11) methyl acetate	3.97	43	582644	254.14	ug/L	99
12) allyl chloride	3.99	41	526210	30.18	ug/L	99
13) iodomethane	3.71	142	308818	29.45	ug/L	100
14) acrylonitrile	4.43	53	101839	79.42	ug/L	99
15) carbon disulfide	3.79	76	904372	35.38	ug/L	100
16) N-Hexane	4.85	57	306051	26.57	ug/L	99
17) diisopropyl ether	5.09	87	124468	17.37	ug/L	83
18) Vinyl acetate	5.06	43	1202983	144.93	ug/L	99
19) chloroprene	5.15	53	521839	28.88	ug/L	93
20) tert-butyl ethyl ether	5.59	59	365729	16.35	ug/L	97
21) 2-butanone (MEK)	5.81	43	231394	167.97	ug/L	95
22) propionitrile	5.89	54	176171	404.58	ug/L	100
23) Isobutyl alcohol	6.84	43	42606	408.19	ug/L	98
24) methacrylonitrile	6.12	67	224367	172.71	ug/L	93
25) Tert-amyl alcohol	6.96	59	462090	2686.64	ug/L	99
26) tetrahydrofuran	6.19	42	259286	335.62	ug/L	98
27) Cyclohexane	6.62	56	539864	25.48	ug/L	99
28) tert-amyl methyl ether (TA	7.08	73	242442	17.21	ug/L	98
30) methyl methacrylate	7.88	69	190957	86.16	ug/L	94
31) Methylcyclohexane	7.82	55	402191	26.03	ug/L	98
32) 1,4-dioxane	7.89	88	41870	1955.16	ug/L	96
33) Methyl isobutyl ketone(mib	8.50	43	429407	163.21	ug/L	99
34) ethyl methacrylate	8.85	69	401624	85.77	ug/L	98
35) 2-hexanone	9.10	43	547548	322.94	ug/L	100
37) 5-Methyl-3-heptanone	10.43	43	129202	58.02	ug/L	97
38) cyclohexanone	10.29	55	81983	443.10	ug/L	99
39) t-1,4-dichloro-2-butene	10.42	75	97337	94.52	ug/L	94
40) Ethyl amyl ketone	10.76	57	68431	28.54	ug/L	99
41) Pentachloroethane	10.80	167	30936	8.73	ug/L	94
42) benzyl chloride	11.09	91	208150	36.31	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR42.D Vial: 4
Acq On : 14 Apr 2017 5:24 am Operator: MGC
Sample : 1706245-ICV2 Inst : MS-V5
Misc : 1 VO-108-69837;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 5:51 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Raw Data - ICB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR14.D Vial: 14
Acq On : 13 Apr 2017 1:23 pm Operator: MGC
Sample : 1706245-ICB1 Inst : MS-V5
Misc : 1 ICB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:45 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184752	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	263984	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	68307	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	56402	9.28	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 92.80%			
31) Toluene d8 SMC#2	8.61	98	292847	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.50%			
49) Bromofluorobenzene SMC#3	10.34	95	83907	9.30	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.00%			

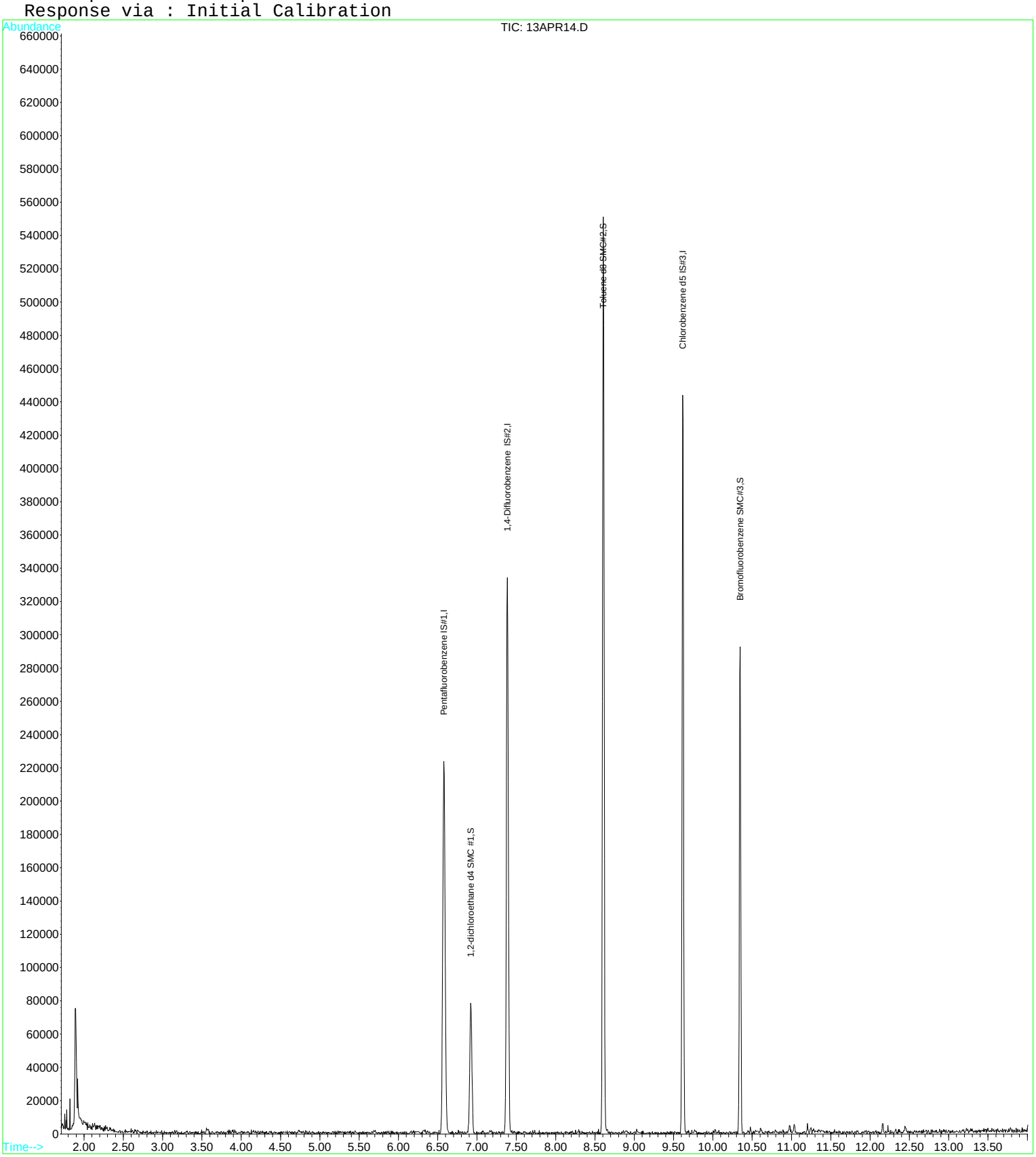
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR14.D Vial: 14
Acq On : 13 Apr 2017 1:23 pm Operator: MGC
Sample : 1706245-ICB1 Inst : MS-V5
Misc : 1 ICB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 3:45 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR43.D Vial: 5
Acq On : 14 Apr 2017 5:47 am Operator: MGC
Sample : 1706245-ICB2 Inst : MS-V5
Misc : 1 ICB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 6:36 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	209177	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	312441	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	78768	10.00	ug/L	0.00

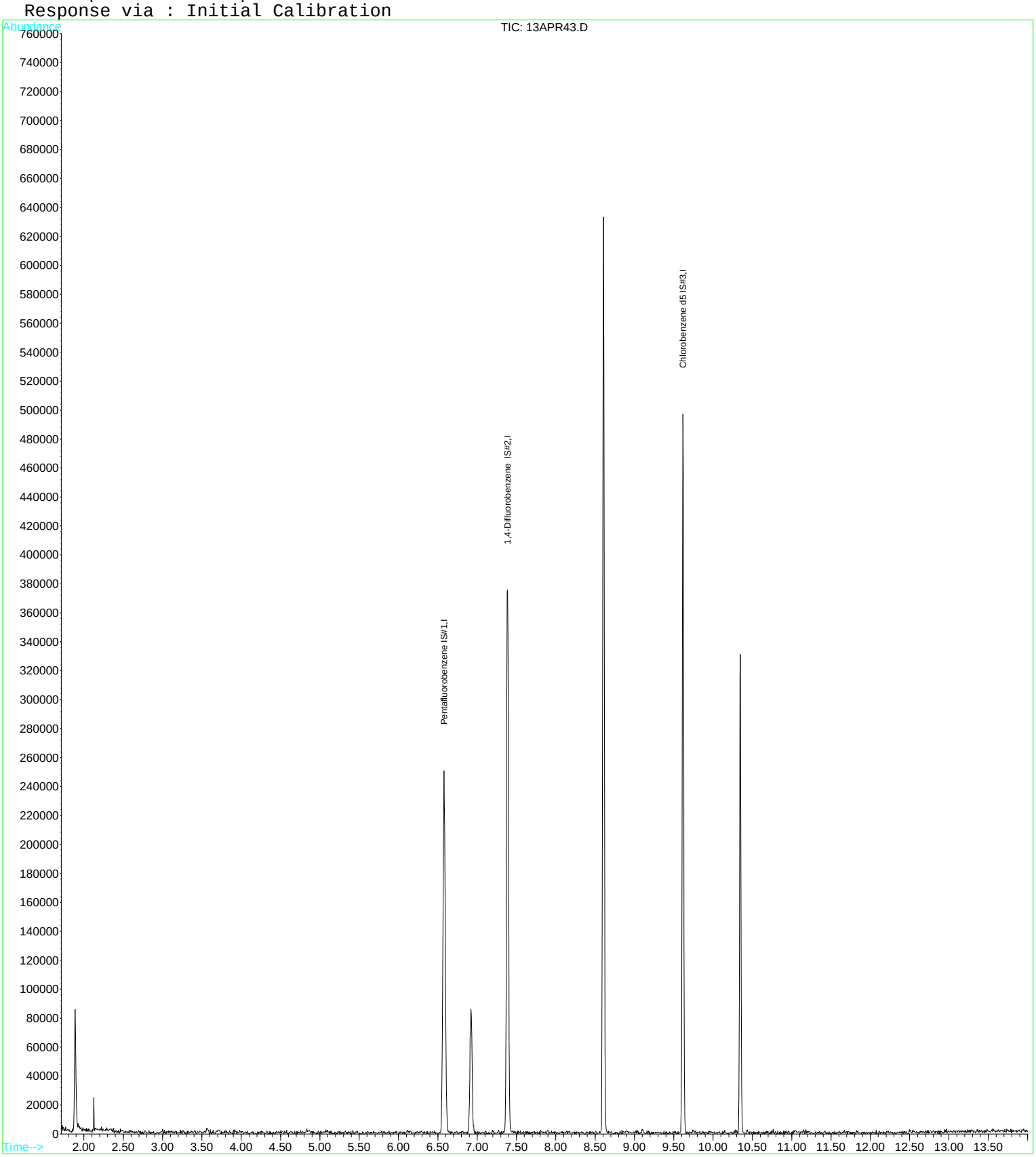
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR43.D Vial: 5
Acq On : 14 Apr 2017 5:47 am Operator: MGC
Sample : 1706245-ICB2 Inst : MS-V5
Misc : 1 ICB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 6:36 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Raw Data - CCV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY02.D Vial: 2
Acq On : 17 May 2017 6:55 am Operator: MGC
Sample : 1708684-CCV1 Inst : MS-V5
Misc : 1 VO-108-69994;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 7:09 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	166354	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	258777	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	60410	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	57038	10.42	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 104.20%							
31) Toluene d8 SMC#2	8.60	98	263125	9.12	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 91.20%							
49) Bromofluorobenzene SMC#3	10.35	95	79245	9.93	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.30%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	185692	24.79	ug/L		92
3) Chloromethane	1.95	50	256040	24.23	ug/L		88
4) Vinyl chloride	2.08	62	272131	25.14	ug/L	#	66
5) Bromomethane	2.44	94	80378	13.20	ug/L	#	97
6) Chloroethane	2.57	64	161744	25.38	ug/L	#	69
7) Trichlorofluoromethane	2.88	101	271874	25.31	ug/L		87
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	166905	25.13	ug/L	#	77
9) 1,1-Dichloroethene	3.52	61	333761	25.71	ug/L	#	90
10) Methylene chloride	4.15	84	155845	24.62	ug/L		95
11) MTBE	4.48	73	248211	23.75	ug/L	#	73
12) T-1,2-dichloroethene	4.50	96	199198	25.31	ug/L		91
13) 1,1-Dichloroethane	5.06	63	463027	27.50	ug/L		98
14) 2,2-Dichloropropane	5.84	77	328358	27.32	ug/L		89
15) Cis-1,2-dichloroethene	5.83	96	228444	27.33	ug/L		95
16) Bromochloromethane	6.18	128	76504	26.95	ug/L	#	58
17) Chloroform	6.33	83	357704	26.86	ug/L		96
18) 1,1,1-Trichloroethane	6.53	97	334137	28.21	ug/L	#	84
19) 1,1-Dichloropropene	6.72	75	292653	28.11	ug/L		93
20) Carbon tetrachloride	6.72	119	248958	29.19	ug/L	#	85
22) 1,2-Dichloroethane	7.00	62	197123	28.12	ug/L	#	89
23) Benzene	6.94	78	869887	27.70	ug/L	#	3
25) Trichloroethene	7.60	130	225487	26.26	ug/L	#	93
26) 1,2-Dichloropropane	7.83	63	230632	27.20	ug/L	#	81
27) Dibromomethane	7.91	93	61518	26.22	ug/L	#	62
28) Bromodichloromethane	8.05	83	207271	26.90	ug/L		93
29) 2-ceve	8.28	63	212446	128.91	ug/L		79
30) Cis-1,3-dichloropropene	8.40	75	230613	22.82	ug/L	#	83
32) Toluene	8.65	92	468806	24.48	ug/L		79
33) Trans-1,3-dichloropropene	8.82	75	172715	24.42	ug/L		89
34) 1,1,2-Trichloroethane	8.97	97	91048	24.51	ug/L		88
35) Tetrachloroethene (PCE)	9.03	166	206084	24.43	ug/L		88
36) 1,3-Dichloropropane	9.08	76	149040	23.86	ug/L		88
37) Dibromochloromethane	9.23	129	105118	24.81	ug/L	#	83
38) 1,2-Dibromoethane	9.32	107	82960	23.67	ug/L		93
40) Chlorobenzene	9.63	112	443464	27.07	ug/L	#	78
41) 1,1,1,2-Tetrachloroethane	9.69	131	137040	26.73	ug/L		70
42) Ethylbenzene	9.69	106	285059	27.76	ug/L		78
43) P+m-Xylene	9.77	106	687203	55.62	ug/L		85
44) O-Xylene	10.01	106	332588	26.98	ug/L		99
45) Styrene	10.02	104	470827	27.41	ug/L		93
46) Bromoform	10.15	173	47950	28.88	ug/L	#	36
47) Isopropylbenzene	10.23	105	779618	26.21	ug/L		97
48) 1,1,2,2-Tetrachloroethane	10.41	83	77737	27.63	ug/L	#	53
50) 1,2,3-Trichloropropane	10.45	110	20946	29.67	ug/L	#	100
51) n-propylbenzene	10.47	91	840273	26.76	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY02.D Vial: 2
Acq On : 17 May 2017 6:55 am Operator: MGC
Sample : 1708684-CCV1 Inst : MS-V5
Misc : 1 VO-108-69994;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 7:09 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

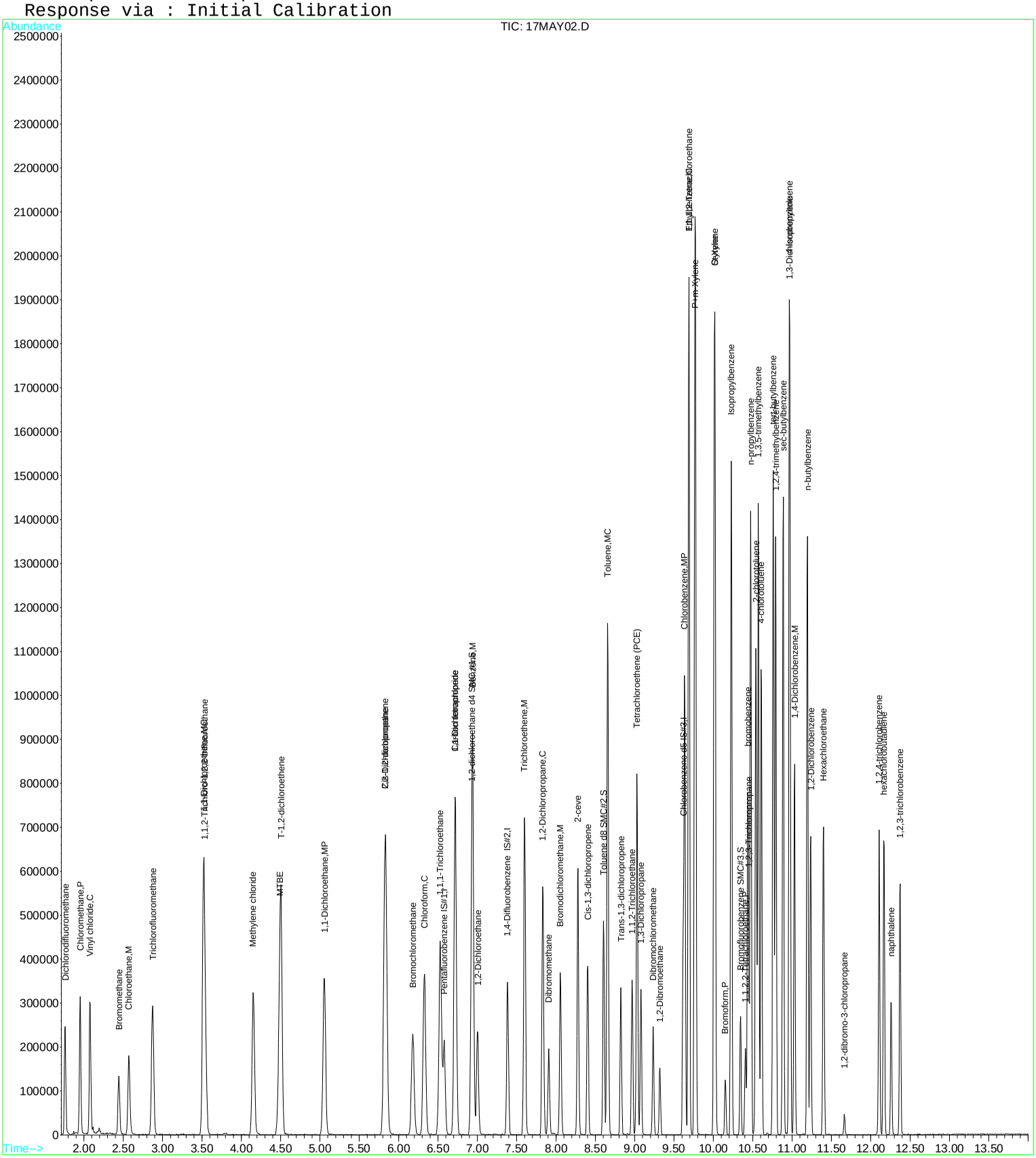
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	160027	26.40	ug/L		95
53)	1,3,5-trimethylbenzene	10.57	105	593298	26.64	ug/L		97
54)	2-chlorotoluene	10.54	91	556952	25.82	ug/L		91
55)	4-chlorotoluene	10.61	91	512466	28.07	ug/L		97
56)	tert-butylbenzene	10.76	119	671518	27.66	ug/L		83
57)	1,2,4-trimethylbenzene	10.79	105	586914	27.36	ug/L		100
58)	sec-butylbenzene	10.89	105	837385	27.97	ug/L		100
59)	4-isopropyltoluene	10.97	119	657619	27.45	ug/L		95
60)	1,3-Dichlorobenzene	10.98	146	278195	26.51	ug/L		90
61)	1,4-Dichlorobenzene	11.03	146	275422	27.03	ug/L	#	93
62)	n-butylbenzene	11.20	91	564240	28.34	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	228806	25.42	ug/L	#	85
64)	Hexachloroethane	11.40	117	100902	27.72	ug/L	#	73
65)	1,2-dibromo-3-chloropropan	11.66	75	10659	24.12	ug/L	#	1
66)	1,2,4-trichlorobenzene	12.11	180	186532	27.18	ug/L		95
67)	hexachlorobutadiene	12.17	225	119150	27.39	ug/L	#	91
68)	naphthalene	12.26	128	194526	24.25	ug/L		100
69)	1,2,3-trichlorobenzene	12.37	180	147319	25.53	ug/L	#	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY02.D Vial: 2
Acq On : 17 May 2017 6:55 am Operator: MGC
Sample : 1708684-CCV1 Inst : MS-V5
Misc : 1 VO-108-69994;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 7:09 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY03.D Vial: 3
Acq On : 17 May 2017 7:18 am Operator: MGC
Sample : 1708684-CCV2 Inst : MS-V5
Misc : 1 VO-108-69950;69951;69952;69953;69954;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 7:39 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	179855	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	253606	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	65740	10.00	ug/L		0.00

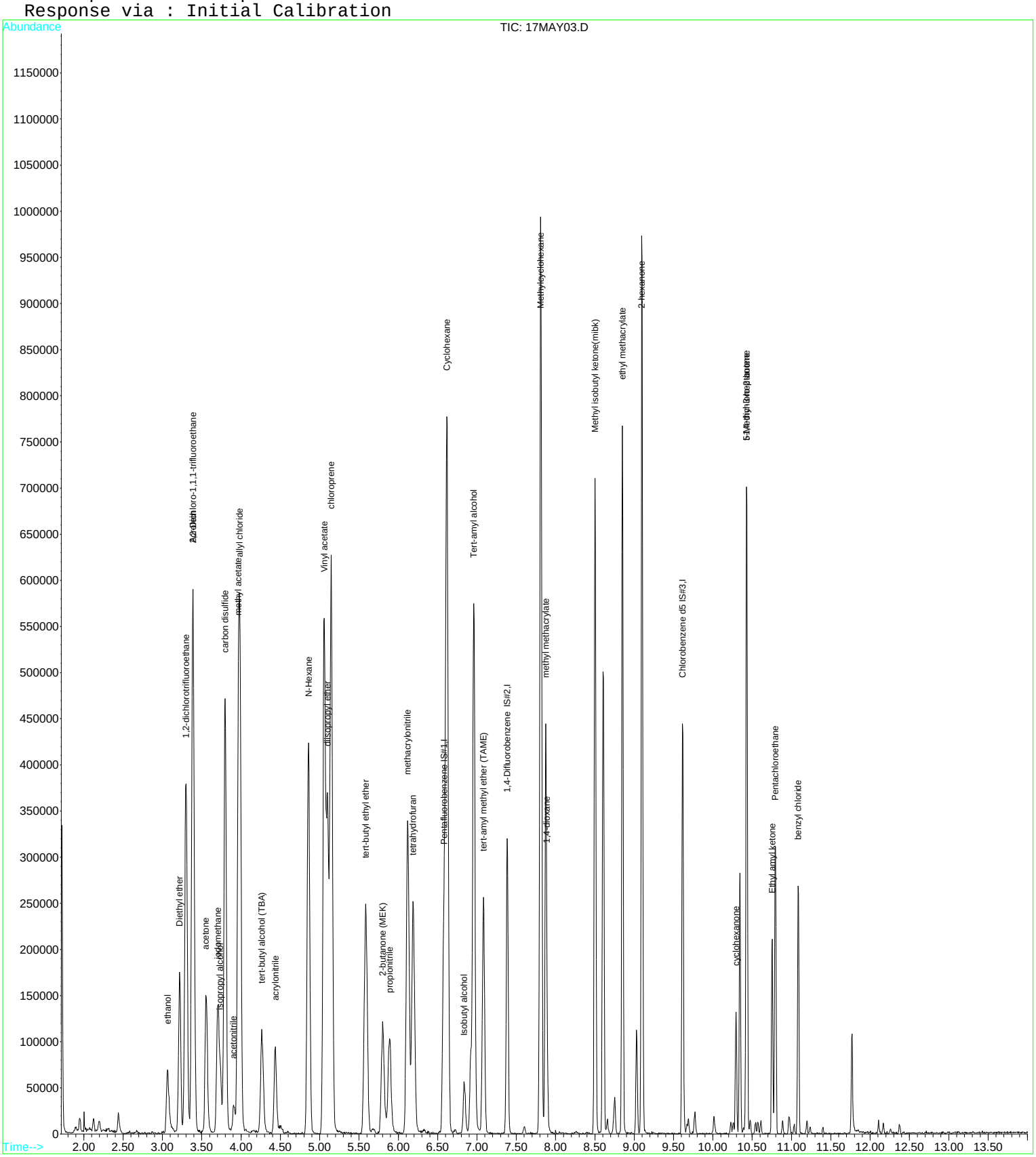
Target Compounds							Qvalue
2) ethanol	3.06	45	106130	4279.52	ug/L		99
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	382536	25.00	ug/L		99
4) 1,2-dichlorotrifluoroethan	3.30	67	251818	24.15	ug/L		98
5) Diethyl ether	3.22	59	116766	26.00	ug/L		97
6) isopropyl alcohol	3.74	45	109116	900.96	ug/L	#	10
7) Acrolein	3.39	56	104996	304.08	ug/L		97
8) acetone	3.55	43	216513	336.87	ug/L		100
9) tert-butyl alcohol (TBA)	4.26	59	169957	840.46	ug/L		100
10) acetonitrile	3.91	41	45284	147.69	ug/L		93
11) methyl acetate	3.96	43	559712	274.91	ug/L		95
12) allyl chloride	3.99	41	521040	33.65	ug/L		90
13) iodomethane	3.70	142	192591	20.68	ug/L		99
14) acrylonitrile	4.43	53	94863	83.30	ug/L		99
15) carbon disulfide	3.80	76	769191	33.75	ug/L		99
16) N-Hexane	4.86	57	284655	27.82	ug/L		98
17) diisopropyl ether	5.10	87	98990	15.55	ug/L		84
18) Vinyl acetate	5.05	43	1141397	154.84	ug/L		97
19) chloroprene	5.15	53	529710	33.01	ug/L		94
20) tert-butyl ethyl ether	5.59	59	329748	16.60	ug/L		95
21) 2-butanone (MEK)	5.80	43	207821	169.87	ug/L		97
22) propionitrile	5.89	54	168720	436.29	ug/L		99
23) Isobutyl alcohol	6.84	43	43290	467.01	ug/L		95
24) methacrylonitrile	6.12	67	195277	169.26	ug/L		92
25) Tert-amyl alcohol	6.96	59	413491	2707.04	ug/L		91
26) tetrahydrofuran	6.19	42	241664	352.23	ug/L		98
27) Cyclohexane	6.62	56	544415	28.93	ug/L		95
28) tert-amyl methyl ether (TA	7.08	73	196165	15.68	ug/L		95
30) methyl methacrylate	7.87	69	149967	81.67	ug/L		93
31) Methylcyclohexane	7.81	55	375768	29.35	ug/L		91
32) 1,4-dioxane	7.89	88	37246	2099.33	ug/L		94
33) Methyl isobutyl ketone(mib	8.50	43	399819	183.42	ug/L		96
34) ethyl methacrylate	8.85	69	322164	83.04	ug/L		98
35) 2-hexanone	9.10	43	506255	360.41	ug/L		97
37) 5-Methyl-3-heptanone	10.43	43	116362	58.25	ug/L		94
38) cyclohexanone	10.29	55	52120	313.99	ug/L		95
39) t-1,4-dichloro-2-butene	10.43	75	69966	75.73	ug/L		87
40) Ethyl amyl ketone	10.76	57	52367	24.34	ug/L		97
41) Pentachloroethane	10.79	167	46551	14.64	ug/L		98
42) benzyl chloride	11.08	91	153878	29.92	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY03.D Vial: 3
Acq On : 17 May 2017 7:18 am Operator: MGC
Sample : 1708684-CCV2 Inst : MS-V5
Misc : 1 VO-108-69950;69951;69952;69953;69954;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 7:39 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY33.D Vial: 33
Acq On : 17 May 2017 6:51 pm Operator: MGC
Sample : 1708684-CCV4 Inst : MS-V5
Misc : 1 VO-108-69994;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 19:05 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178320	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	289102	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	74697	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	55640	9.49	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 94.90%						
31) Toluene d8 SMC#2	8.60	98	320458	9.95	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.50%						
49) Bromofluorobenzene SMC#3	10.34	95	94698	9.60	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.00%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	198155	24.68	ug/L	92
3) Chloromethane	1.95	50	268065	23.67	ug/L	90
4) Vinyl chloride	2.08	62	300500	25.90	ug/L #	66
5) Bromomethane	2.44	94	105519	16.16	ug/L #	97
6) Chloroethane	2.57	64	187650	27.47	ug/L #	72
7) Trichlorofluoromethane	2.87	101	288360	25.04	ug/L	88
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	182997	25.70	ug/L #	76
9) 1,1-Dichloroethene	3.52	61	355296	25.53	ug/L #	88
10) Methylene chloride	4.15	84	182265	26.87	ug/L	90
11) MTBE	4.49	73	289382	25.84	ug/L #	75
12) T-1,2-dichloroethene	4.51	96	216544	25.67	ug/L	93
13) 1,1-Dichloroethane	5.05	63	464791	25.75	ug/L	96
14) 2,2-Dichloropropane	5.83	77	279967	21.73	ug/L #	71
15) Cis-1,2-dichloroethene	5.83	96	231559	25.84	ug/L	97
16) Bromochloromethane	6.18	128	78702	25.92	ug/L	66
17) Chloroform	6.32	83	359023	25.15	ug/L	96
18) 1,1,1-Trichloroethane	6.53	97	317841	25.03	ug/L #	86
19) 1,1-Dichloropropene	6.72	75	282268	25.29	ug/L	91
20) Carbon tetrachloride	6.71	119	219957	24.06	ug/L #	81
22) 1,2-Dichloroethane	7.00	62	198914	26.47	ug/L #	89
23) Benzene	6.94	78	885067	26.29	ug/L #	2
25) Trichloroethene	7.60	130	240570	25.07	ug/L #	92
26) 1,2-Dichloropropane	7.83	63	239493	25.29	ug/L	82
27) Dibromomethane	7.91	93	71588	27.31	ug/L #	55
28) Bromodichloromethane	8.06	83	220388	25.60	ug/L	94
29) 2-ceve	8.28	63	273013	148.28	ug/L #	75
30) Cis-1,3-dichloropropene	8.40	75	274091	24.28	ug/L #	86
32) Toluene	8.66	92	549174	25.67	ug/L	81
33) Trans-1,3-dichloropropene	8.82	75	191471	24.23	ug/L #	84
34) 1,1,2-Trichloroethane	8.97	97	108113	26.05	ug/L	88
35) Tetrachloroethene (PCE)	9.03	166	215742	22.90	ug/L	89
36) 1,3-Dichloropropane	9.08	76	176301	25.27	ug/L	92
37) Dibromochloromethane	9.23	129	124376	26.28	ug/L #	81
38) 1,2-Dibromoethane	9.32	107	98029	25.04	ug/L	94
40) Chlorobenzene	9.63	112	497884	24.58	ug/L	79
41) 1,1,1,2-Tetrachloroethane	9.69	131	152527	24.06	ug/L	75
42) Ethylbenzene	9.69	106	315772	24.87	ug/L	78
43) P+m-Xylene	9.77	106	739629	48.42	ug/L	89
44) O-Xylene	10.01	106	365446	23.98	ug/L	99
45) Styrene	10.02	104	522977	24.62	ug/L	92
46) Bromoform	10.15	173	54680	26.63	ug/L #	31
47) Isopropylbenzene	10.23	105	882545	24.00	ug/L	99
48) 1,1,2,2-Tetrachloroethane	10.40	83	93110	26.77	ug/L #	55
50) 1,2,3-Trichloropropane	10.45	110	21039	24.10	ug/L #	100
51) n-propylbenzene	10.47	91	947793	24.41	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY33.D Vial: 33
Acq On : 17 May 2017 6:51 pm Operator: MGC
Sample : 1708684-CCV4 Inst : MS-V5
Misc : 1 VO-108-69994;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 19:05 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

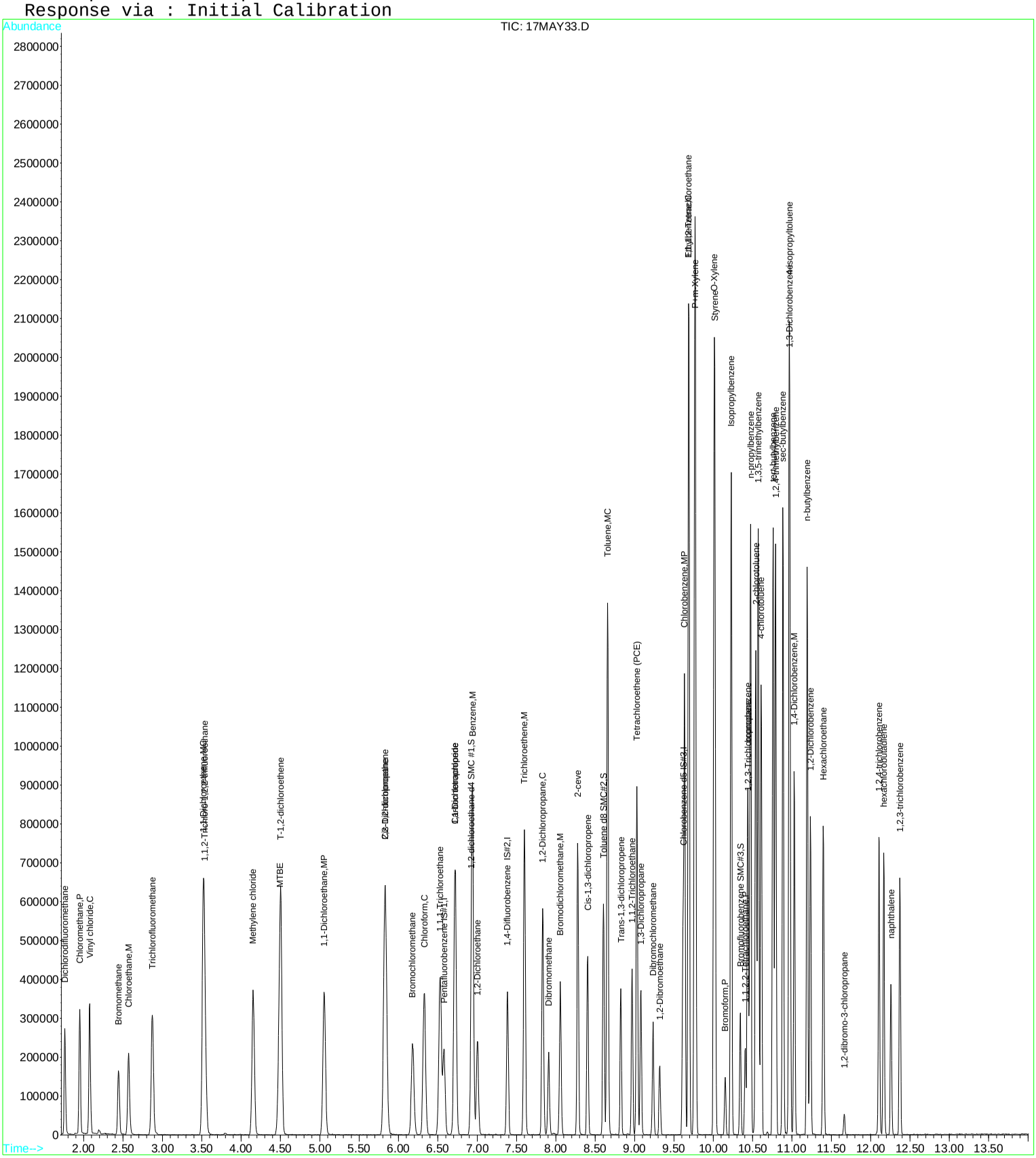
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	180511	24.09	ug/L		98
53)	1,3,5-trimethylbenzene	10.57	105	668143	24.27	ug/L		94
54)	2-chlorotoluene	10.54	91	632416	23.71	ug/L		93
55)	4-chlorotoluene	10.61	91	553544	24.52	ug/L		99
56)	tert-butylbenzene	10.76	119	715119	23.82	ug/L		93
57)	1,2,4-trimethylbenzene	10.79	105	641828	24.19	ug/L		99
58)	sec-butylbenzene	10.88	105	896837	24.23	ug/L		98
59)	4-isopropyltoluene	10.96	119	725823	24.50	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	305294	23.53	ug/L		89
61)	1,4-Dichlorobenzene	11.03	146	301825	23.96	ug/L		96
62)	n-butylbenzene	11.19	91	603108	24.50	ug/L		97
63)	1,2-Dichlorobenzene	11.23	146	269366	24.21	ug/L	#	85
64)	Hexachloroethane	11.40	117	116309	25.85	ug/L	#	72
65)	1,2-dibromo-3-chloropropan	11.66	75	13076	23.95	ug/L	#	1
66)	1,2,4-trichlorobenzene	12.11	180	200249	23.60	ug/L		91
67)	hexachlorobutadiene	12.17	225	123372	22.94	ug/L	#	91
68)	naphthalene	12.26	128	238090	24.00	ug/L		100
69)	1,2,3-trichlorobenzene	12.37	180	164937	23.12	ug/L	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY33.D Vial: 33
Acq On : 17 May 2017 6:51 pm Operator: MGC
Sample : 1708684-CCV4 Inst : MS-V5
Misc : 1 VO-108-69994;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 19:05 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY34.D Vial: 34
Acq On : 17 May 2017 7:14 pm Operator: MGC
Sample : 1708684-CCV5 Inst : MS-V5
Misc : 1 VO-108-69950;69951;69952;69953;69954;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:50 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	186577	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	290748	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	76135	10.00	ug/L	0.00

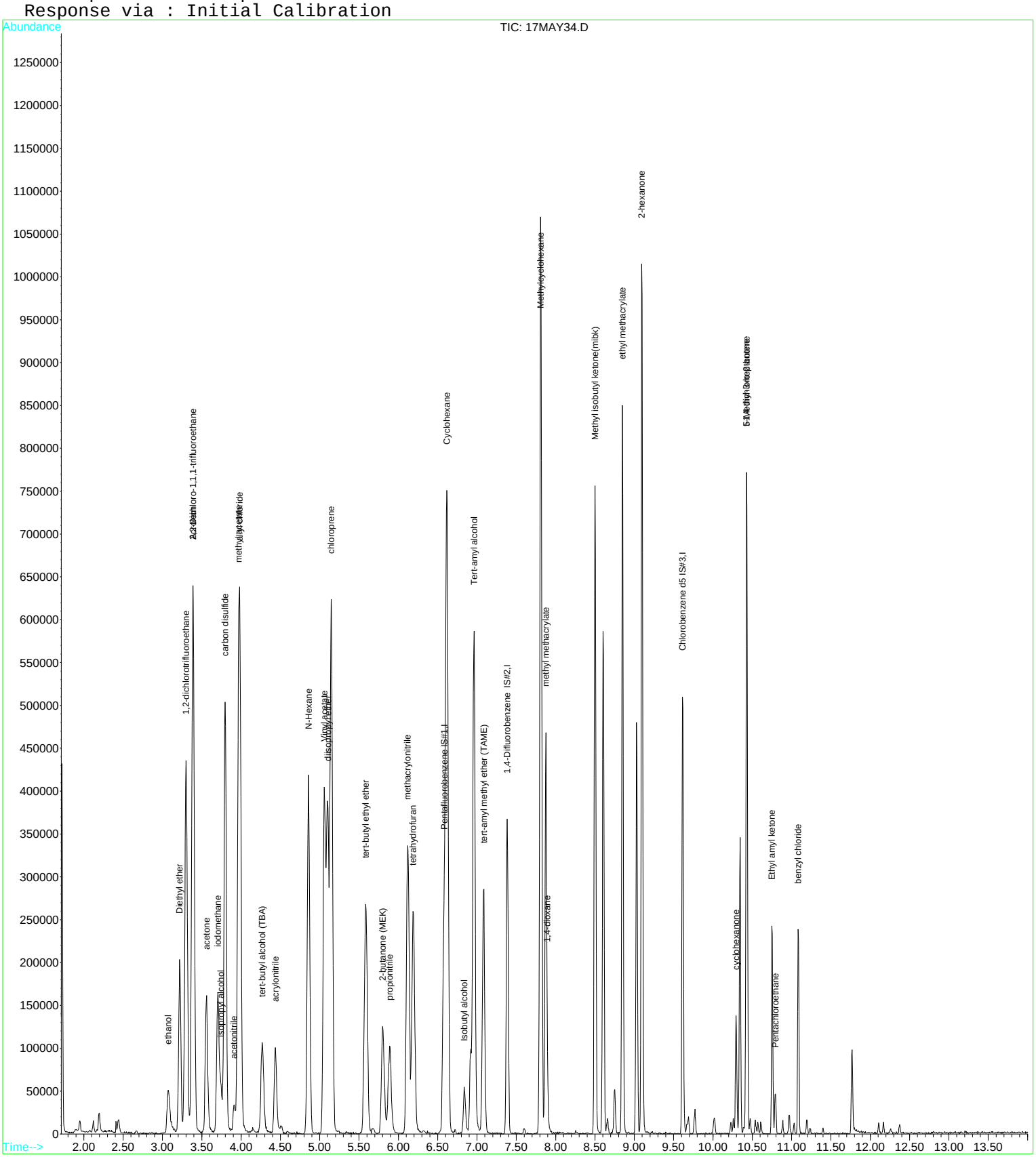
Target Compounds						Qvalue
2) ethanol	3.07	45	87831	3414.04	ug/L	96
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	429048	27.03	ug/L	98
4) 1,2-dichlorotrifluoroethan	3.30	67	288186	26.64	ug/L	97
5) Diethyl ether	3.22	59	134032	28.77	ug/L	94
6) isopropyl alcohol	3.75	45	95616	761.05	ug/L #	9
7) Acrolein	3.39	56	99319	277.27	ug/L	97
8) acetone	3.56	43	229092	343.60	ug/L	98
9) tert-butyl alcohol (TBA)	4.27	59	169518	808.09	ug/L	100
10) acetonitrile	3.91	41	43352	136.29	ug/L	99
11) methyl acetate	3.97	43	630558	298.54	ug/L	96
12) allyl chloride	3.99	41	523535	32.60	ug/L	92
13) iodomethane	3.71	142	223663	23.15	ug/L	97
14) acrylonitrile	4.43	53	102220	86.53	ug/L	98
15) carbon disulfide	3.80	76	823409	34.93	ug/L	100
16) N-Hexane	4.86	57	269017	25.35	ug/L	97
17) diisopropyl ether	5.11	87	110157	16.69	ug/L	95
18) Vinyl acetate	5.06	43	863681	112.94	ug/L	96
19) chloroprene	5.14	53	524680	31.52	ug/L	98
20) tert-butyl ethyl ether	5.59	59	353022	17.13	ug/L	97
21) 2-butanone (MEK)	5.80	43	219264	172.77	ug/L	96
22) propionitrile	5.89	54	166724	415.60	ug/L	100
23) Isobutyl alcohol	6.84	43	38809	403.58	ug/L	95
24) methacrylonitrile	6.12	67	206025	172.15	ug/L	98
25) Tert-amyl alcohol	6.96	59	420214	2651.94	ug/L	93
26) tetrahydrofuran	6.18	42	254507	357.59	ug/L	96
27) Cyclohexane	6.62	56	540740	27.70	ug/L	95
28) tert-amyl methyl ether (TA	7.08	73	221540	17.07	ug/L	97
30) methyl methacrylate	7.88	69	164408	78.10	ug/L	92
31) Methylcyclohexane	7.81	55	387091	26.37	ug/L	95
32) 1,4-dioxane	7.90	88	32700	1607.65	ug/L	88
33) Methyl isobutyl ketone(mib	8.50	43	431151	172.53	ug/L	97
34) ethyl methacrylate	8.85	69	362986	81.61	ug/L	98
35) 2-hexanone	9.09	43	532481	330.65	ug/L	98
37) 5-Methyl-3-heptanone	10.43	43	125662	54.31	ug/L	96
38) cyclohexanone	10.29	55	54294	282.43	ug/L	92
39) t-1,4-dichloro-2-butene	10.42	75	74608	69.73	ug/L	93
40) Ethyl amyl ketone	10.75	57	57083	22.91	ug/L	96
41) Pentachloroethane	10.80	167	4604	1.25	ug/L	80
42) benzyl chloride	11.08	91	133839	22.47	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY34.D Vial: 34
Acq On : 17 May 2017 7:14 pm Operator: MGC
Sample : 1708684-CCV5 Inst : MS-V5
Misc : 1 VO-108-69950;69951;69952;69953;69954;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:50 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Raw Data - CCB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY05.D Vial: 5
Acq On : 17 May 2017 8:04 am Operator: MGC
Sample : 1708684-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:20 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177237	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	263809	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	72050	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	54515	9.35	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 93.50%			
31) Toluene d8 SMC#2	8.61	98	296831	10.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.00%			
49) Bromofluorobenzene SMC#3	10.34	95	89892	9.45	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.50%			

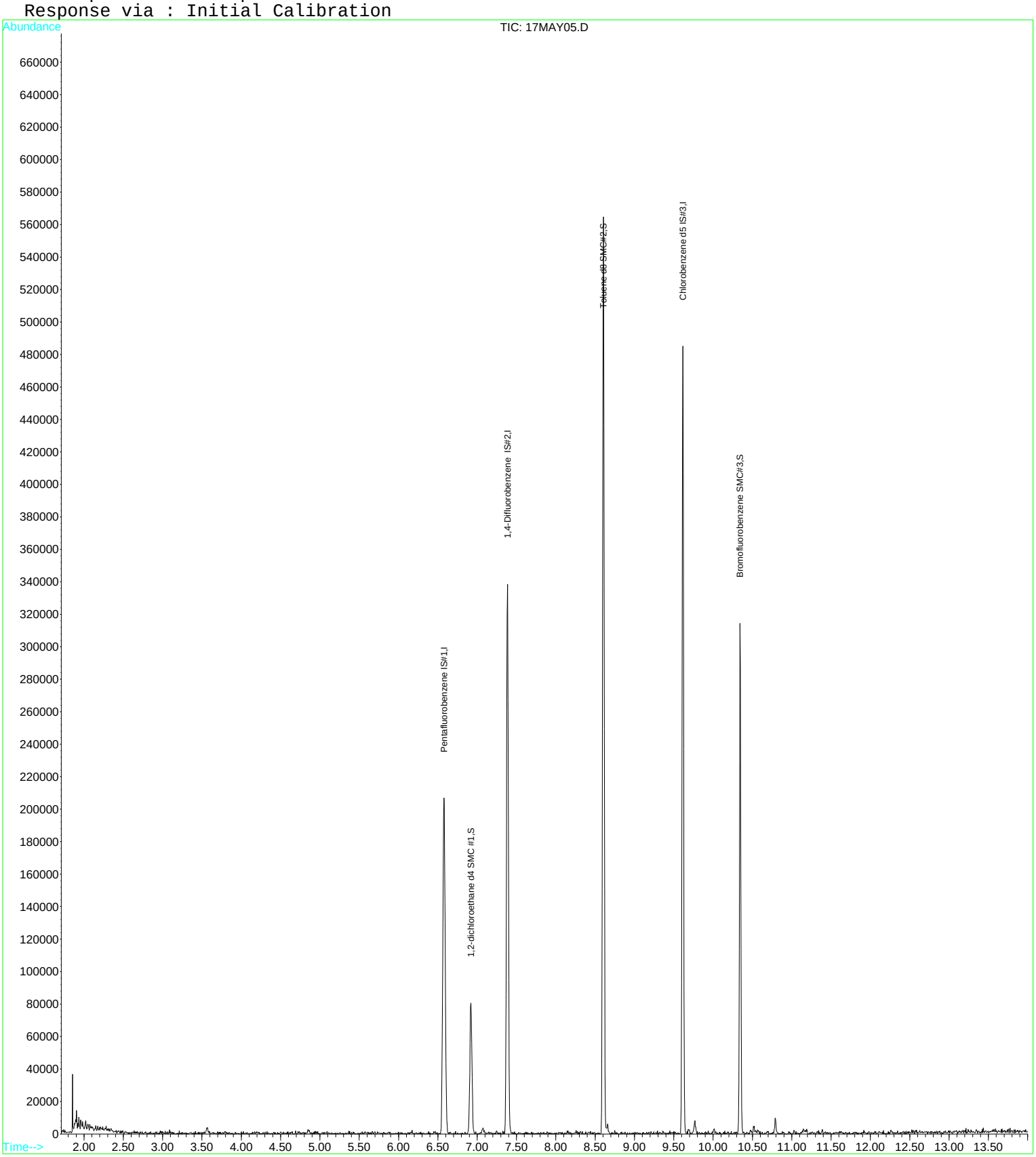
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY05.D Vial: 5
Acq On : 17 May 2017 8:04 am Operator: MGC
Sample : 1708684-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:20 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY05.D Vial: 5
Acq On : 17 May 2017 8:04 am Operator: MGC
Sample : 1708684-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:20 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177237	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	263809	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	72050	10.00	ug/L	0.00

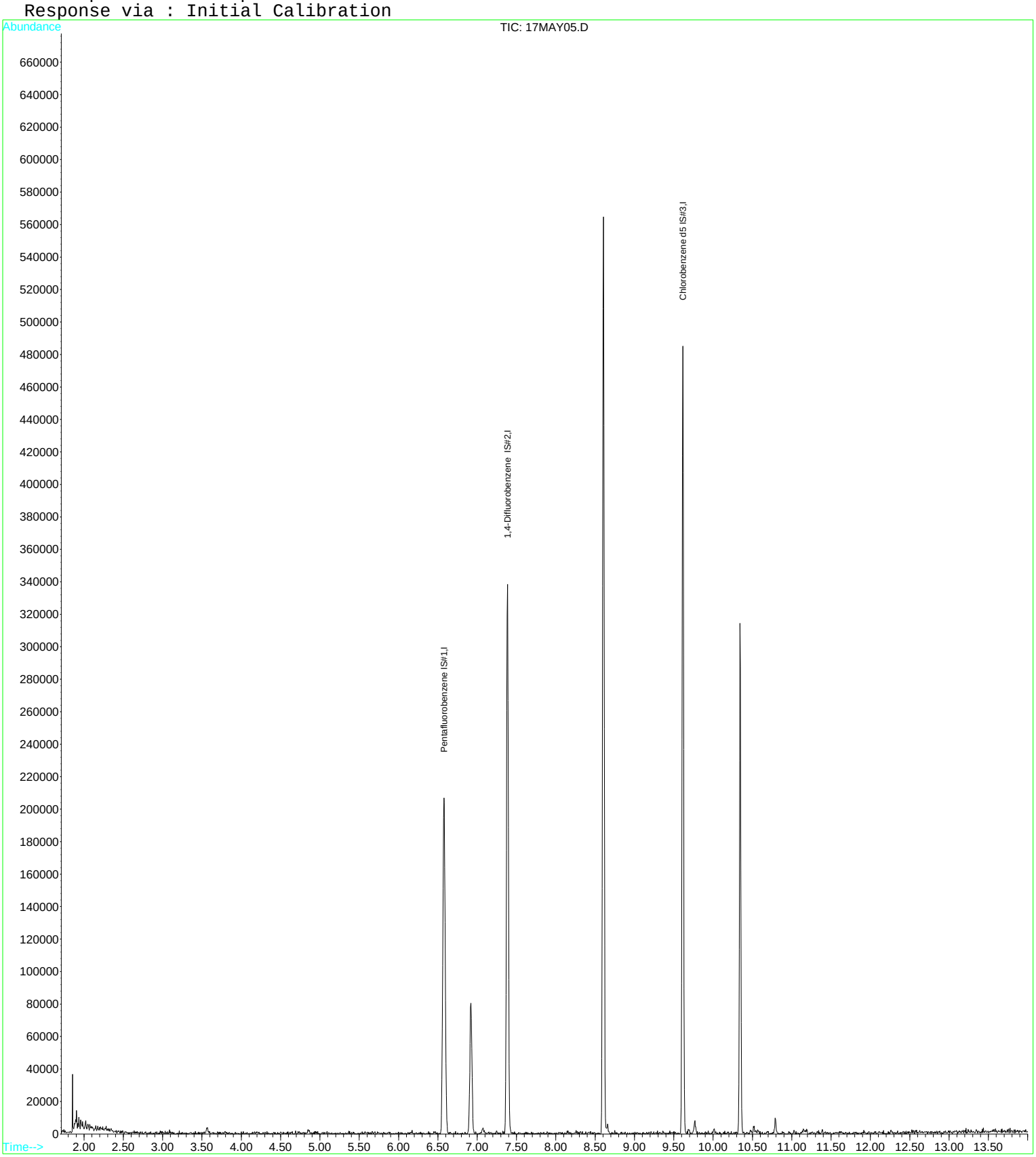
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY05.D Vial: 5
Acq On : 17 May 2017 8:04 am Operator: MGC
Sample : 1708684-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:20 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY05.D Vial: 5
Acq On : 17 May 2017 8:04 am Operator: MGC
Sample : 1708684-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:21 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Fri Apr 14 04:15:45 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177237	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.58	TIC	441857m	4.27	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	151576m	2.46	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.39	TIC	566915m	5.26	ug/L	0.00
5) TOLUENE d8 S 4	8.61	TIC	765359m	8.32	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	625326m	9.46	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	383028m	9.77	ug/L	0.00

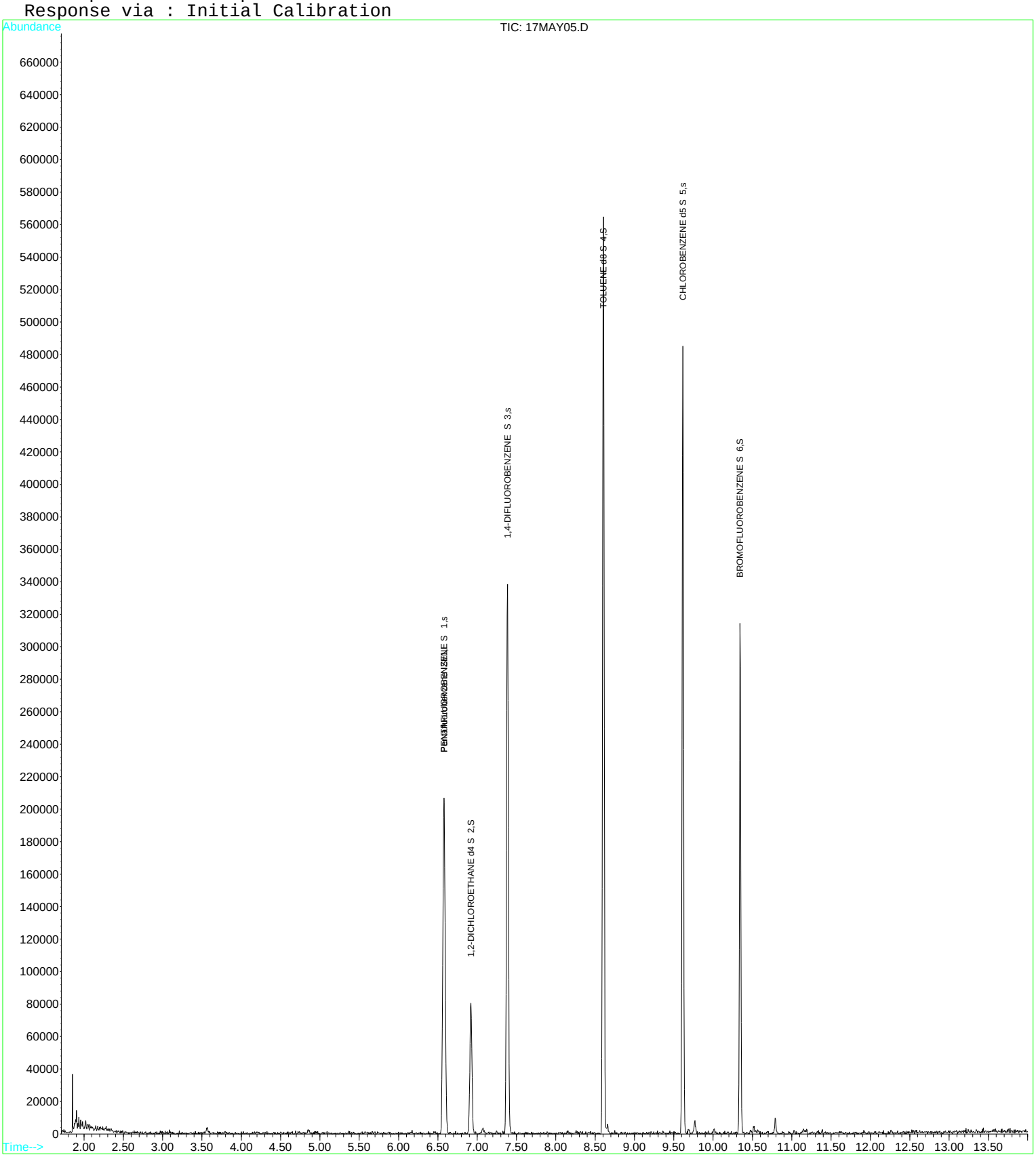
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY05.D Vial: 5
Acq On : 17 May 2017 8:04 am Operator: MGC
Sample : 1708684-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:21 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1932\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Fri Apr 14 04:15:45 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY36.D Vial: 36
Acq On : 17 May 2017 8:01 pm Operator: MGC
Sample : 1708684-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 6:36 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	196914	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	296942	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	79679	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	60450	9.33	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 93.30%			
31) Toluene d8 SMC#2	8.60	98	327595	9.90	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.00%			
49) Bromofluorobenzene SMC#3	10.34	95	95810	9.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.00%			

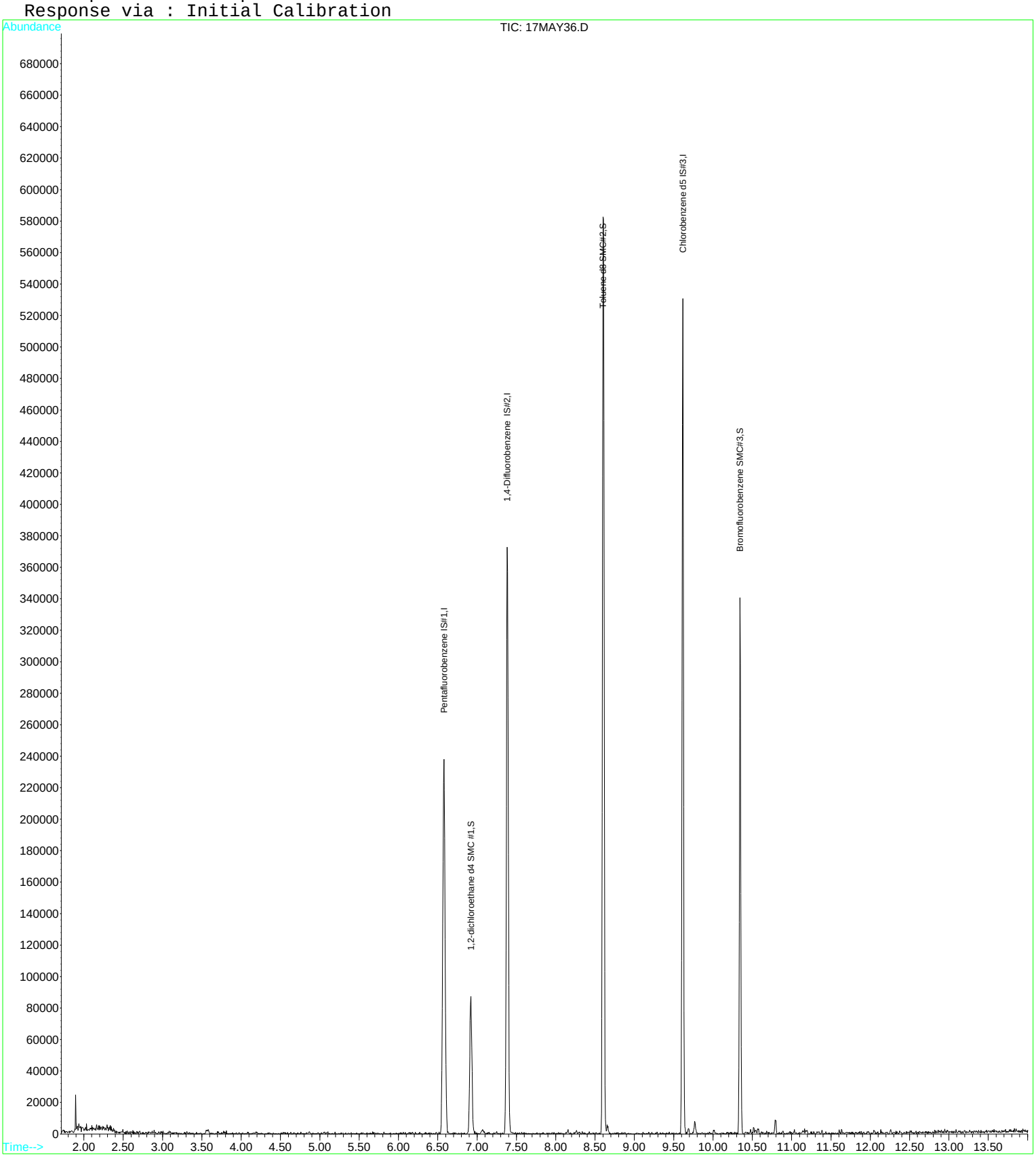
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY36.D Vial: 36
Acq On : 17 May 2017 8:01 pm Operator: MGC
Sample : 1708684-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 6:36 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY36.D Vial: 36
Acq On : 17 May 2017 8:01 pm Operator: MGC
Sample : 1708684-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 6:36 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	196914	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	296942	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	79679	10.00	ug/L	0.00

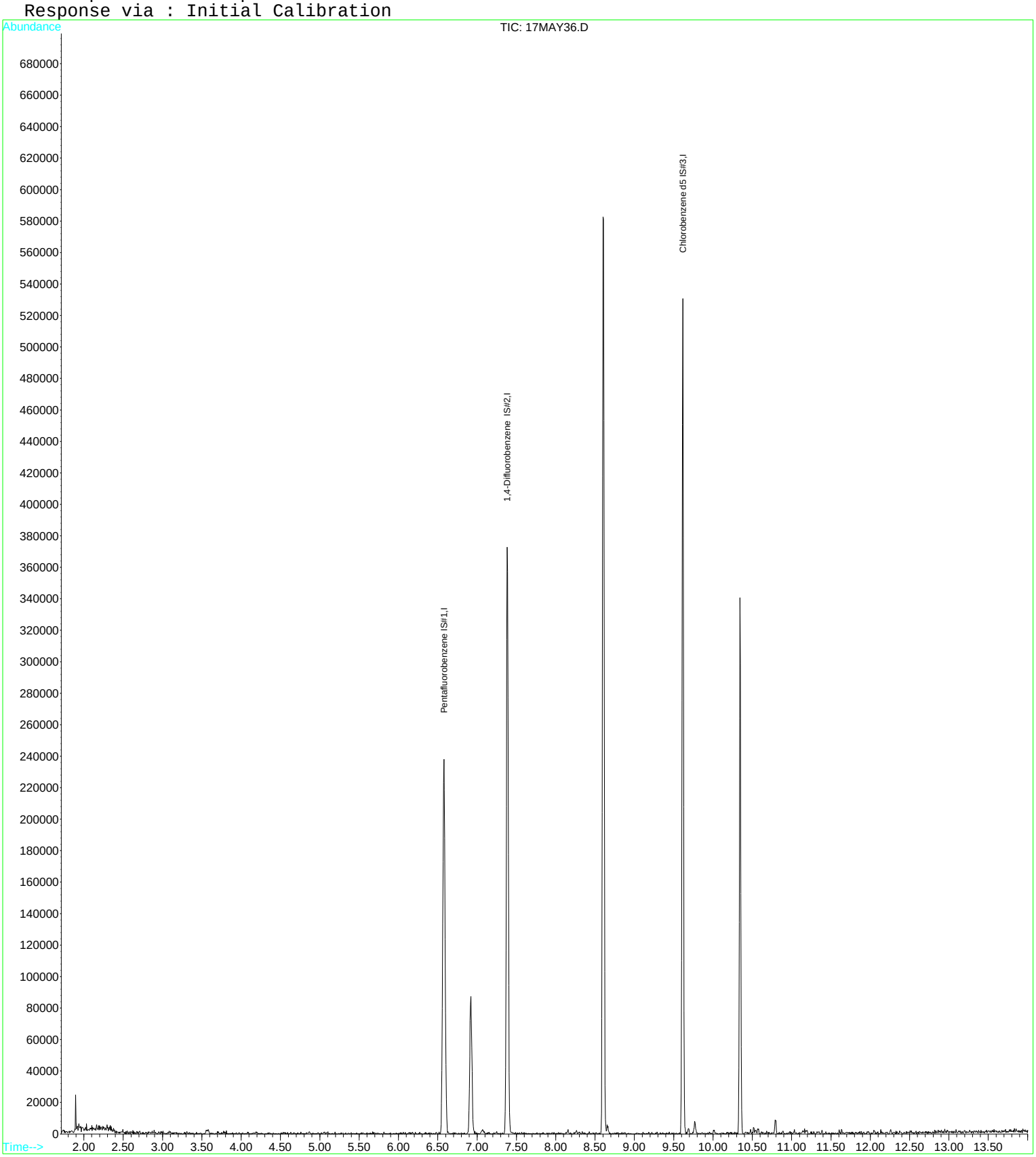
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY36.D Vial: 36
Acq On : 17 May 2017 8:01 pm Operator: MGC
Sample : 1708684-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 6:36 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY36.D Vial: 36
Acq On : 17 May 2017 8:01 pm Operator: MGC
Sample : 1708684-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 6:37 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Fri Apr 14 04:15:45 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	196914	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.58	TIC	495633m	4.31	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	167836m	2.45	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	629529m	5.25	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	848913m	8.30	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	644311m	8.77	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	406030m	9.32	ug/L	0.00

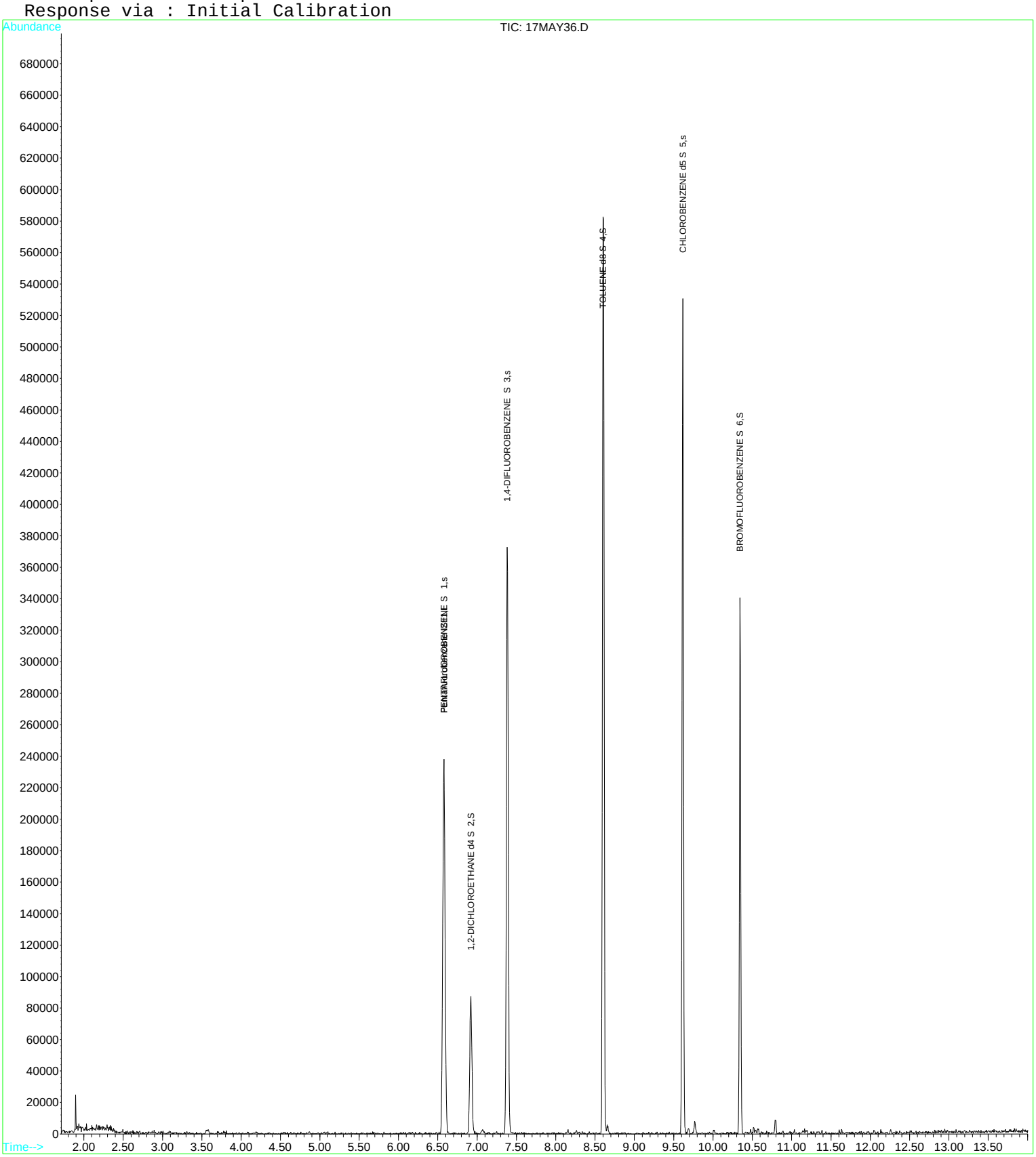
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY36.D Vial: 36
Acq On : 17 May 2017 8:01 pm Operator: MGC
Sample : 1708684-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 6:37 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1932\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Fri Apr 14 04:15:45 2017
Response via : Initial Calibration



Raw Data - Tune

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR02.D Vial: 2
Acq On : 13 Apr 2017 7:33 am Operator: MGC
Sample : 1706245-TUN1 Inst : MS-V5
Misc : 1 VO-108-69692;25NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 8:14 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	37240	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	58737	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	14594	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	13205	10.71	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 107.10%			
31) Toluene d8 SMC#2	8.61	98	66904	10.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.00%			
49) Bromofluorobenzene SMC#3	10.35	95	18931	10.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.00%			

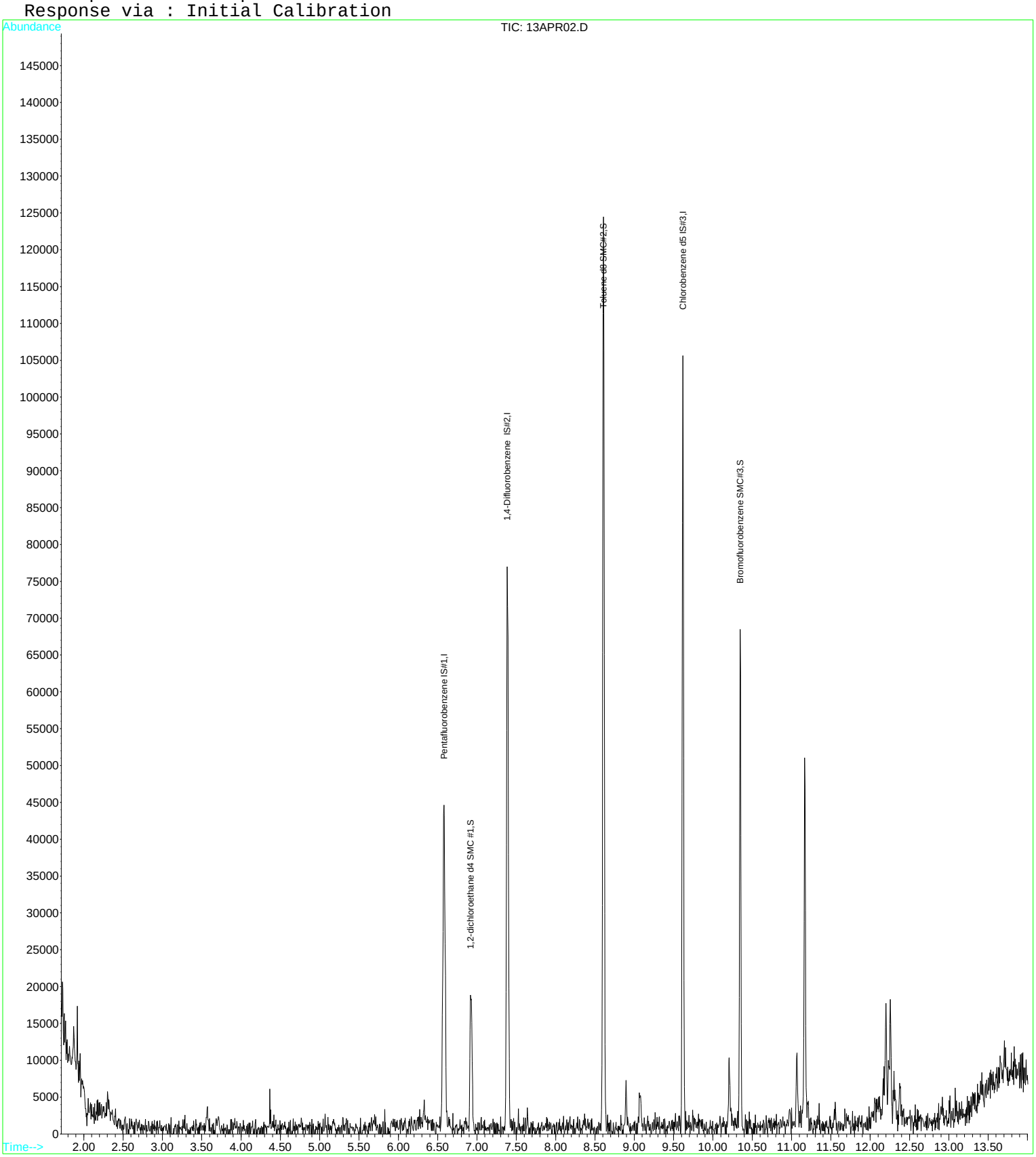
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR02.D Vial: 2
Acq On : 13 Apr 2017 7:33 am Operator: MGC
Sample : 1706245-TUN1 Inst : MS-V5
Misc : 1 VO-108-69692;25NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 13 8:14 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\04-1208\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Tue Apr 04 13:25:13 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR27.D Vial: 27
Acq On : 13 Apr 2017 6:23 pm Operator: MGC
Sample : 1706245-TUN2 Inst : MS-V5
Misc : 1 VO-108-69692;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:06 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	46588	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	75355	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	19450	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.93	65	17198	11.22	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 112.20%			
31) Toluene d8 SMC#2	8.61	98	87062	10.37	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.70%			
49) Bromofluorobenzene SMC#3	10.35	95	25555	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.50%			

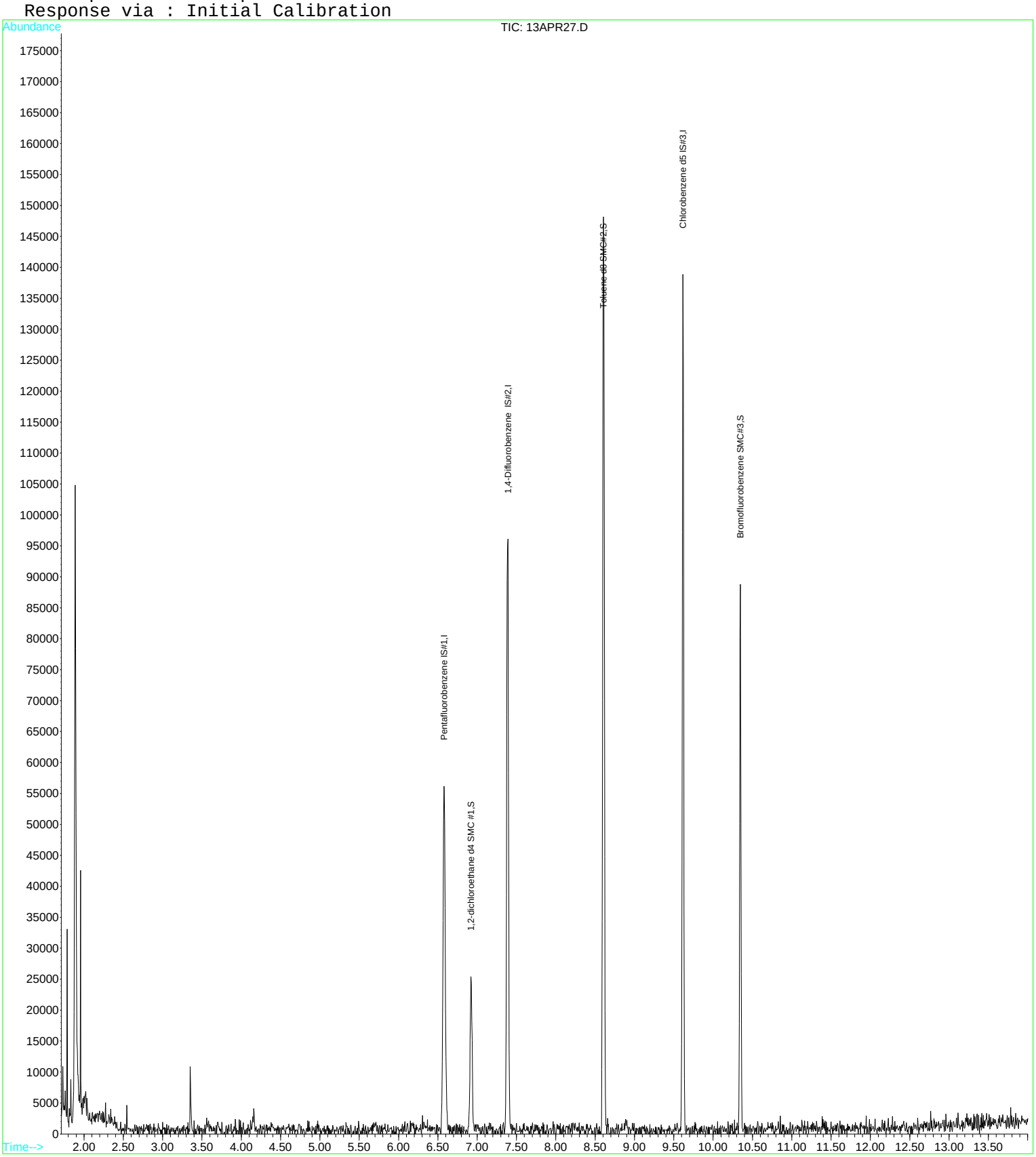
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\APR2017\APR13\13APR27.D Vial: 27
Acq On : 13 Apr 2017 6:23 pm Operator: MGC
Sample : 1706245-TUN2 Inst : MS-V5
Misc : 1 VO-108-69692;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 14 4:06 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY01.D Vial: 1
Acq On : 17 May 2017 6:32 am Operator: MGC
Sample : 1708684-TUN1 Inst : MS-V5
Misc : 1 VO-108-69692;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 6:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	48736	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	71985	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	16984	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	17416	10.86	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 108.60%			
31) Toluene d8 SMC#2	8.61	98	83814	10.45	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.50%			
49) Bromofluorobenzene SMC#3	10.34	95	21535	9.60	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.00%			

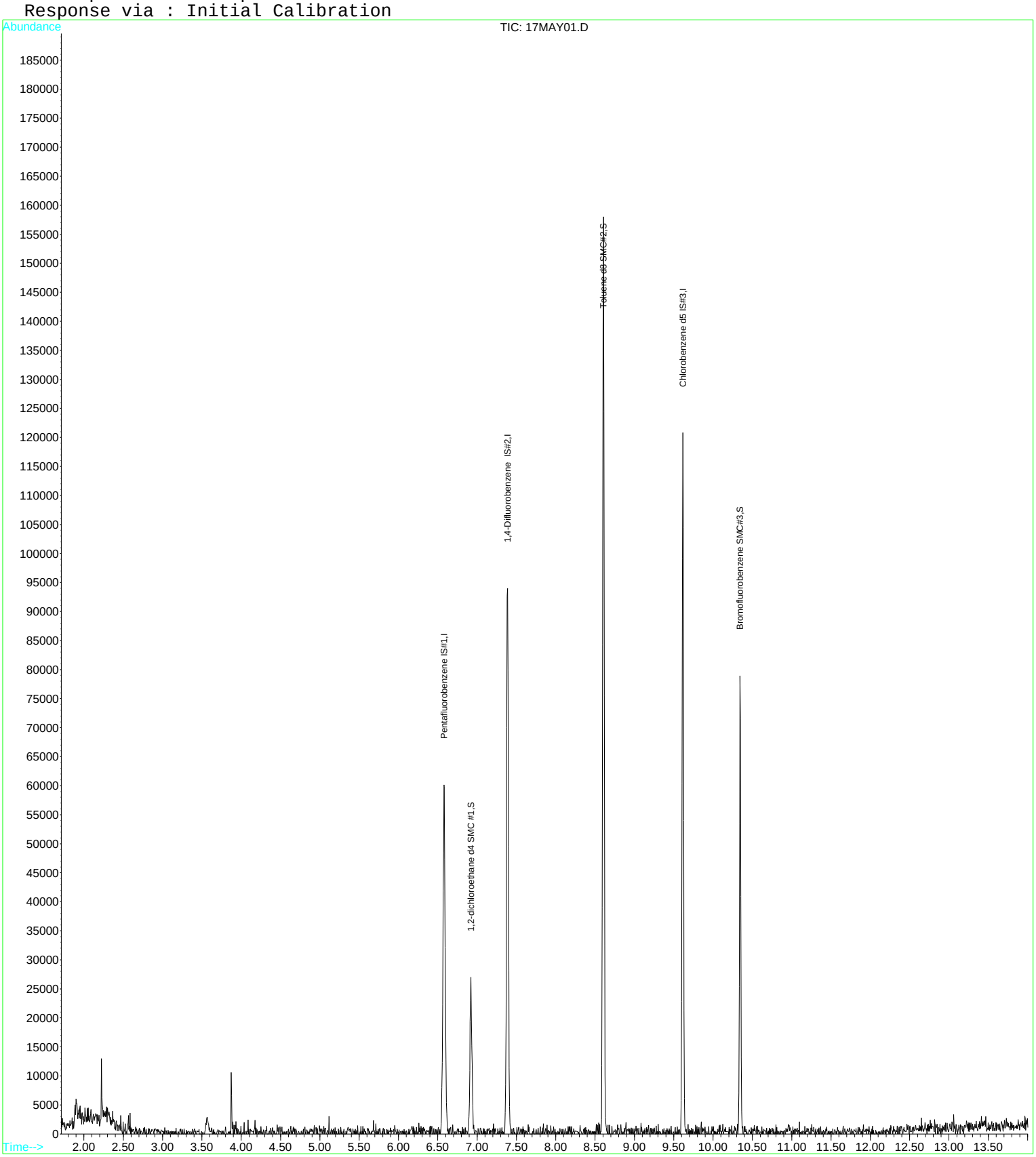
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY01.D Vial: 1
Acq On : 17 May 2017 6:32 am Operator: MGC
Sample : 1708684-TUN1 Inst : MS-V5
Misc : 1 VO-108-69692;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 6:46 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY32.D Vial: 32
Acq On : 17 May 2017 6:28 pm Operator: MGC
Sample : 1708684-TUN2 Inst : MS-V5
Misc : 1 VO-108-69692;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:48 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	47984	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	83667	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	22836	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	19485	12.34	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 123.40%			
31) Toluene d8 SMC#2	8.61	98	100003	10.73	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 107.30%			
49) Bromofluorobenzene SMC#3	10.34	95	26102	8.65	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 86.50%			

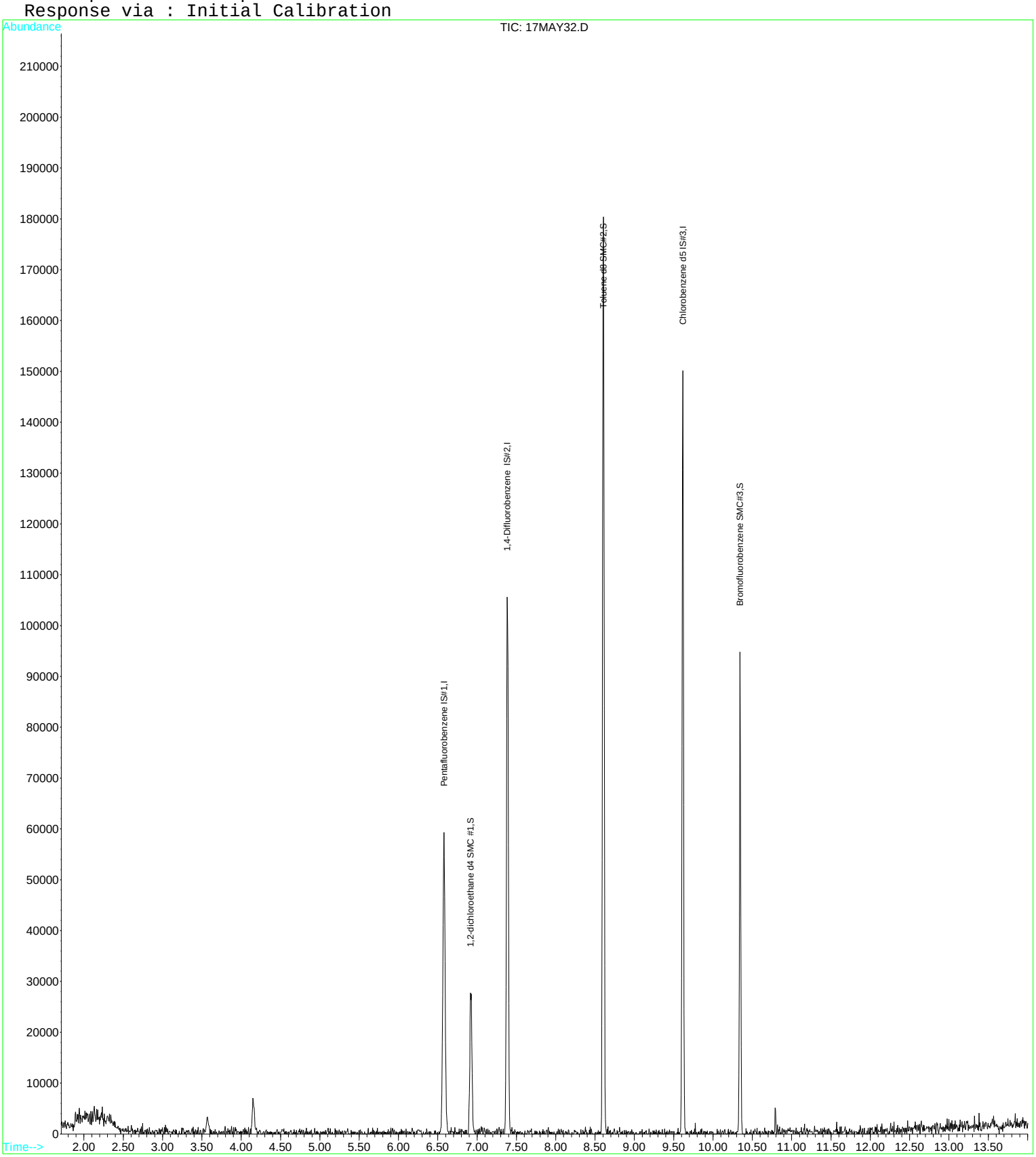
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY32.D Vial: 32
Acq On : 17 May 2017 6:28 pm Operator: MGC
Sample : 1708684-TUN2 Inst : MS-V5
Misc : 1 VO-108-69692;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 18 5:48 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Raw Data - Method Blank

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY06.D Vial: 6
Acq On : 17 May 2017 8:27 am Operator: MGC
Sample : B[E1839-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5682;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:41 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	190338	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	285937	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	72242	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	58624	9.36	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 93.60%			
31) Toluene d8 SMC#2	8.60	98	317538	9.97	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.70%			
49) Bromofluorobenzene SMC#3	10.35	95	92233	9.67	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.70%			

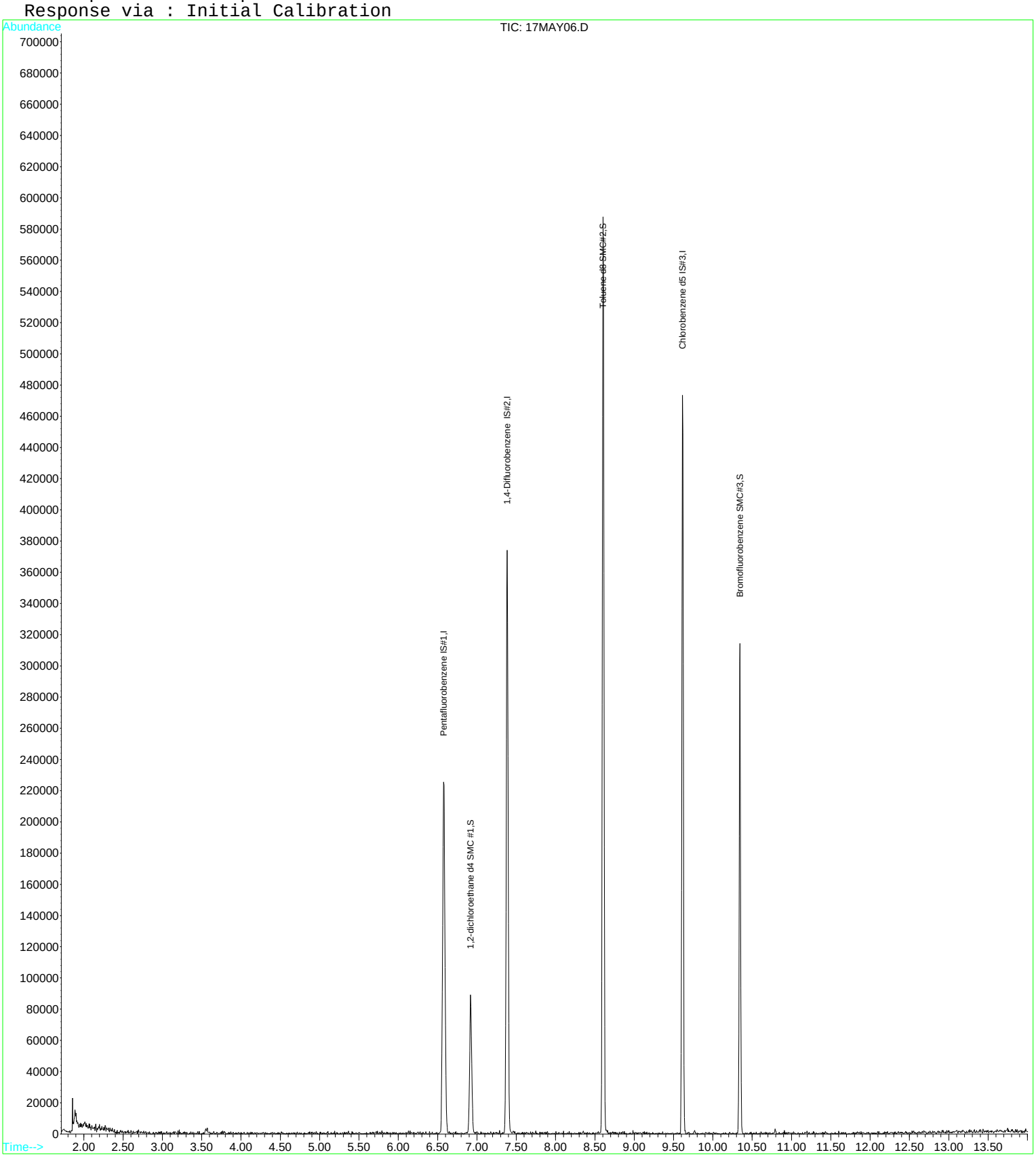
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY06.D Vial: 6
Acq On : 17 May 2017 8:27 am Operator: MGC
Sample : B[E1839-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5682;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 8:41 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY06.D Vial: 6
Acq On : 17 May 2017 8:27 am Operator: MGC
Sample : B[E1839-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5682;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:32 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	190338	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	285937	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	72242	10.00	ug/L	0.00

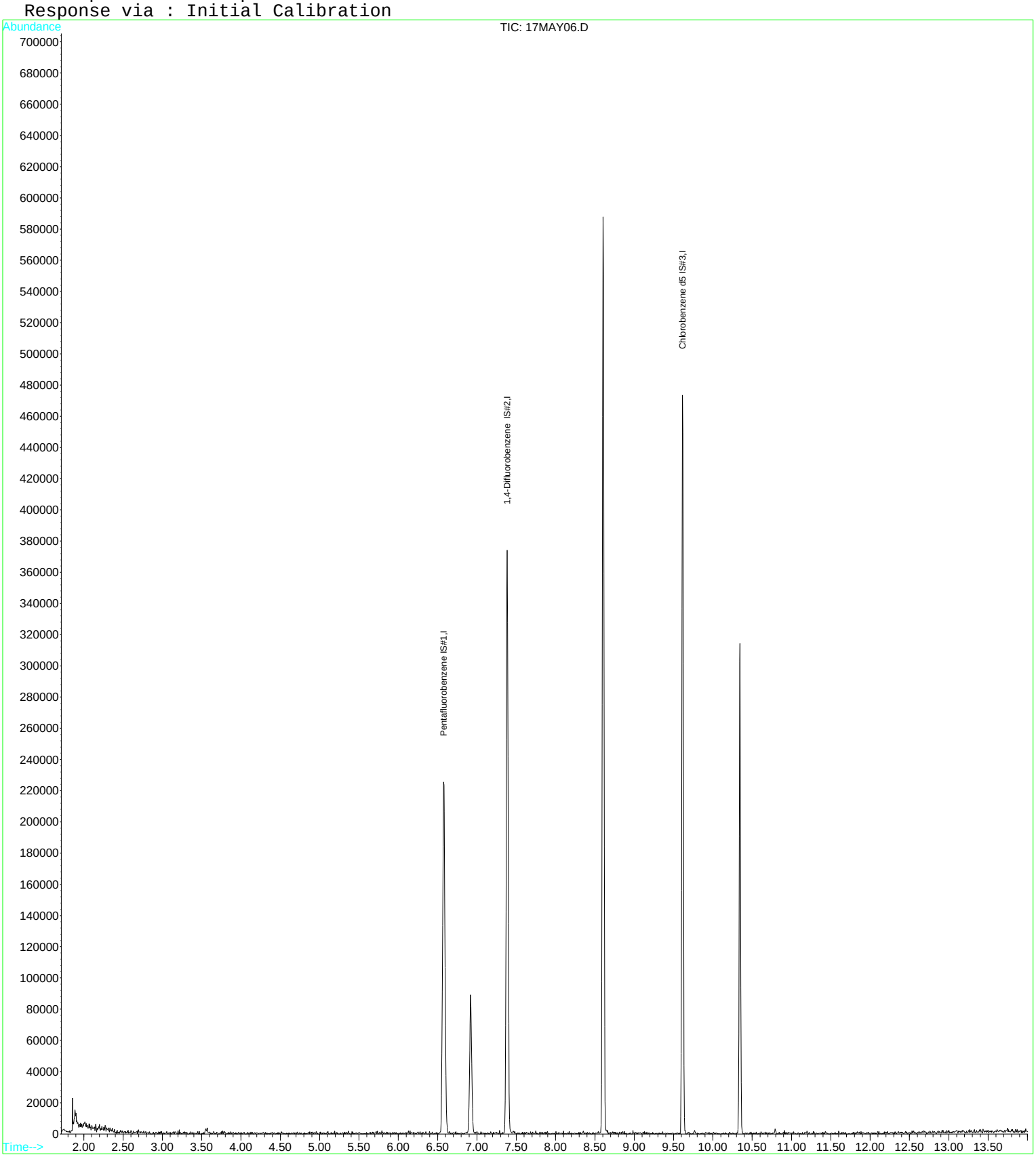
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY06.D Vial: 6
Acq On : 17 May 2017 8:27 am Operator: MGC
Sample : B[E1839-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5682;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:32 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY06.D Vial: 6
Acq On : 17 May 2017 8:27 am Operator: MGC
Sample : B[E1839-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5682;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:33 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Fri Apr 14 04:15:45 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	190338	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	478485m	4.31	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	163068m	2.47	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	627642m	5.42	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	818729m	8.29	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	609145m	8.58	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	383763m	9.11	ug/L	0.00

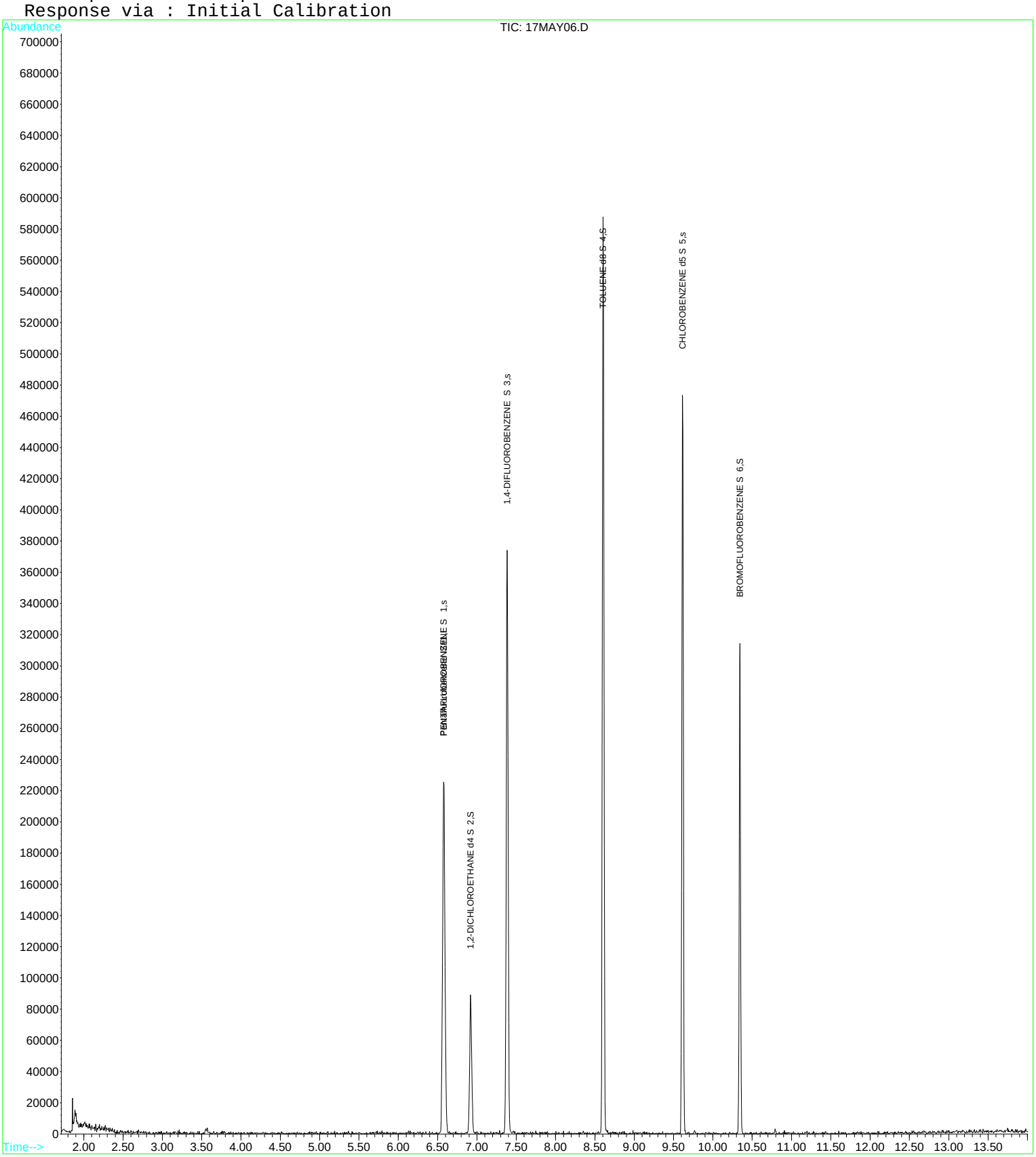
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY06.D Vial: 6
Acq On : 17 May 2017 8:27 am Operator: MGC
Sample : B[E1839-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5682;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:33 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1932\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Fri Apr 14 04:15:45 2017
Response via : Initial Calibration



Raw Data - Matrix Spike

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY09.D Vial: 9
Acq On : 17 May 2017 9:37 am Operator: MGC
Sample : B[E1839-MS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:39 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184050	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	293830	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	72483	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	56766	9.38	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 93.80%							
31) Toluene d8 SMC#2	8.60	98	320567	9.79	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.90%							
49) Bromofluorobenzene SMC#3	10.35	95	89657	9.37	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 93.70%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	172071	20.76	ug/L		90
3) Chloromethane	1.95	50	269923	23.09	ug/L		89
4) Vinyl chloride	2.08	62	349008	29.14	ug/L	#	65
5) Bromomethane	2.44	94	120718	17.91	ug/L	#	97
6) Chloroethane	2.57	64	198400	28.14	ug/L	#	72
7) Trichlorofluoromethane	2.87	101	299110	25.17	ug/L		86
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	198156	26.97	ug/L	#	75
9) 1,1-Dichloroethene	3.52	61	377208	26.26	ug/L	#	84
10) Methylene chloride	4.15	84	188179	26.87	ug/L		86
11) MTBE	4.48	73	281260	24.33	ug/L	#	71
12) T-1,2-dichloroethene	4.50	96	245551	28.20	ug/L		95
13) 1,1-Dichloroethane	5.05	63	464964	24.96	ug/L		97
14) 2,2-Dichloropropane	5.84	77	335224	25.21	ug/L		86
15) Cis-1,2-dichloroethene	5.83	96	248168	26.83	ug/L		96
16) Bromochloromethane	6.18	128	72355	23.23	ug/L		66
17) Chloroform	6.33	83	369459	25.07	ug/L		100
18) 1,1,1-Trichloroethane	6.53	97	342794	26.16	ug/L	#	81
19) 1,1-Dichloropropene	6.72	75	316689	27.49	ug/L		92
20) Carbon tetrachloride	6.72	119	245977	26.07	ug/L	#	82
22) 1,2-Dichloroethane	7.00	62	182528	23.54	ug/L	#	88
23) Benzene	6.94	78	940751	27.08	ug/L	#	1
25) Trichloroethene	7.60	130	243197	24.94	ug/L	#	94
26) 1,2-Dichloropropane	7.83	63	243564	25.30	ug/L	#	71
27) Dibromomethane	7.91	93	61427	23.06	ug/L	#	61
28) Bromodichloromethane	8.06	83	210186	24.02	ug/L		94
29) 2-ceve	8.26	63	3617	1.93	ug/L	#	1
30) Cis-1,3-dichloropropene	8.40	75	278548	24.28	ug/L	#	85
32) Toluene	8.65	92	568436	26.14	ug/L		82
33) Trans-1,3-dichloropropene	8.82	75	184420	22.96	ug/L	#	85
34) 1,1,2-Trichloroethane	8.97	97	103625	24.57	ug/L		85
35) Tetrachloroethene (PCE)	9.03	166	232153	24.24	ug/L		88
36) 1,3-Dichloropropane	9.08	76	164992	23.27	ug/L		86
37) Dibromochloromethane	9.23	129	115033	23.91	ug/L	#	84
38) 1,2-Dibromoethane	9.32	107	96657	24.29	ug/L		94
40) Chlorobenzene	9.63	112	503157	25.60	ug/L		80
41) 1,1,1,2-Tetrachloroethane	9.69	131	151570	24.64	ug/L		74
42) Ethylbenzene	9.69	106	330725	26.85	ug/L		79
43) P+m-Xylene	9.77	106	788928	53.22	ug/L		86
44) O-Xylene	10.01	106	394264	26.66	ug/L		97
45) Styrene	10.02	104	541721	26.28	ug/L		91
46) Bromoform	10.15	173	49546	24.87	ug/L	#	33
47) Isopropylbenzene	10.23	105	957013	26.82	ug/L		97
48) 1,1,2,2-Tetrachloroethane	10.41	83	85716	25.39	ug/L	#	56
50) 1,2,3-Trichloropropane	10.45	110	19993	23.61	ug/L	#	100
51) n-propylbenzene	10.47	91	988175	26.23	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY09.D Vial: 9
Acq On : 17 May 2017 9:37 am Operator: MGC
Sample : B[E1839-MS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:39 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

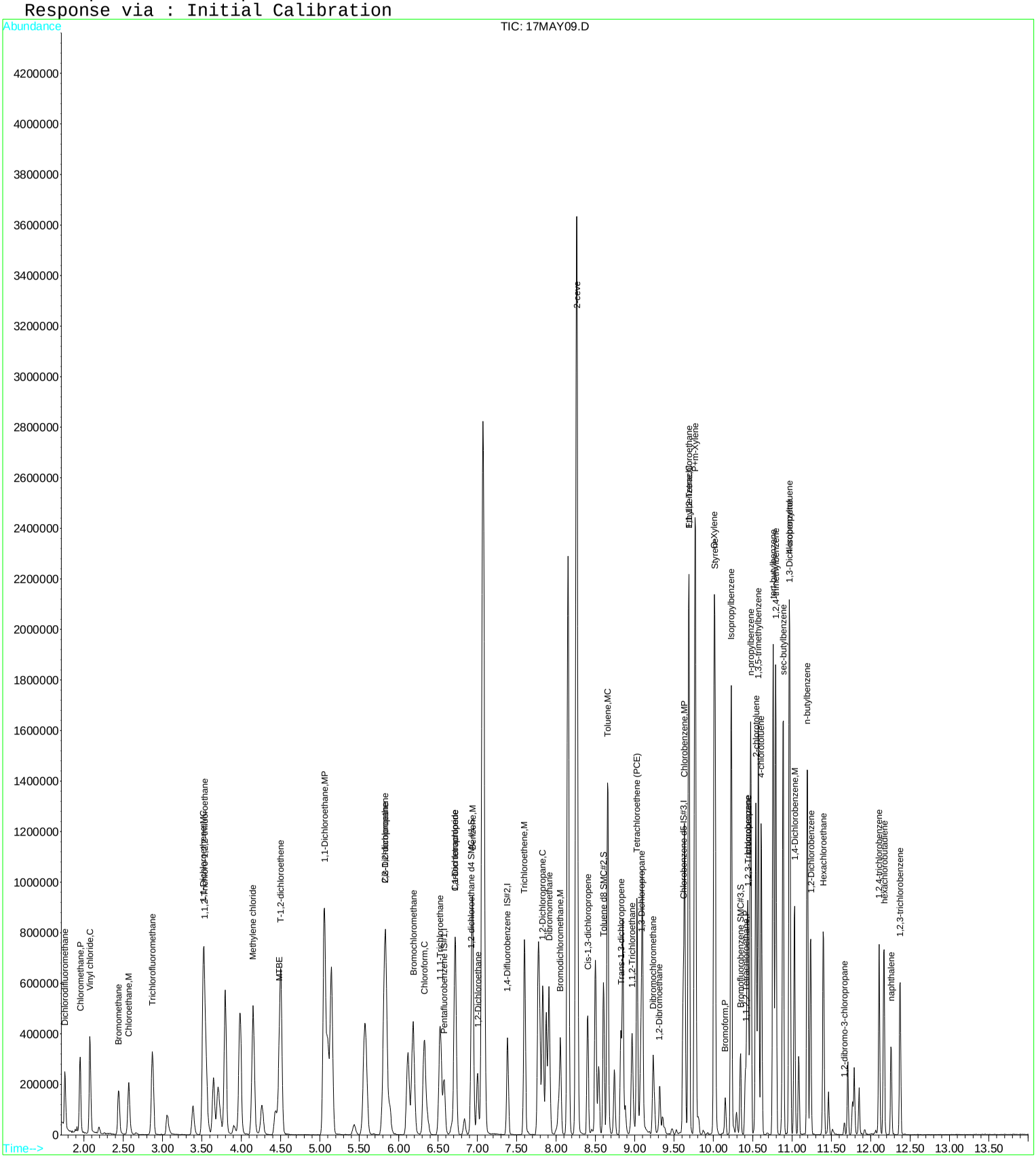
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	177275	24.38	ug/L		94
53)	1,3,5-trimethylbenzene	10.57	105	683434	25.58	ug/L		95
54)	2-chlorotoluene	10.54	91	635820	24.57	ug/L		92
55)	4-chlorotoluene	10.61	91	559453	25.54	ug/L		98
56)	tert-butylbenzene	10.76	119	778611	26.73	ug/L	#	76
57)	1,2,4-trimethylbenzene	10.79	105	650003	25.25	ug/L		100
58)	sec-butylbenzene	10.89	105	959263	26.70	ug/L		100
59)	4-isopropyltoluene	10.97	119	748595	26.04	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	306491	24.35	ug/L		89
61)	1,4-Dichlorobenzene	11.03	146	300284	24.57	ug/L		95
62)	n-butylbenzene	11.20	91	644763	26.99	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	259237	24.01	ug/L	#	85
64)	Hexachloroethane	11.40	117	120344	27.56	ug/L	#	70
65)	1,2-dibromo-3-chloropropan	11.66	75	11238m	21.54	ug/L		
66)	1,2,4-trichlorobenzene	12.11	180	194169	23.58	ug/L		91
67)	hexachlorobutadiene	12.17	225	127011	24.34	ug/L	#	88
68)	naphthalene	12.26	128	223439	23.21	ug/L		100
69)	1,2,3-trichlorobenzene	12.37	180	161785	23.37	ug/L	#	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY09.D Vial: 9
Acq On : 17 May 2017 9:37 am Operator: MGC
Sample : B[E1839-MS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:39 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY09.D Vial: 9
Acq On : 17 May 2017 9:37 am Operator: MGC
Sample : B[E1839-MS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:39 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184050	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	293830	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	72483	10.00	ug/L		0.00

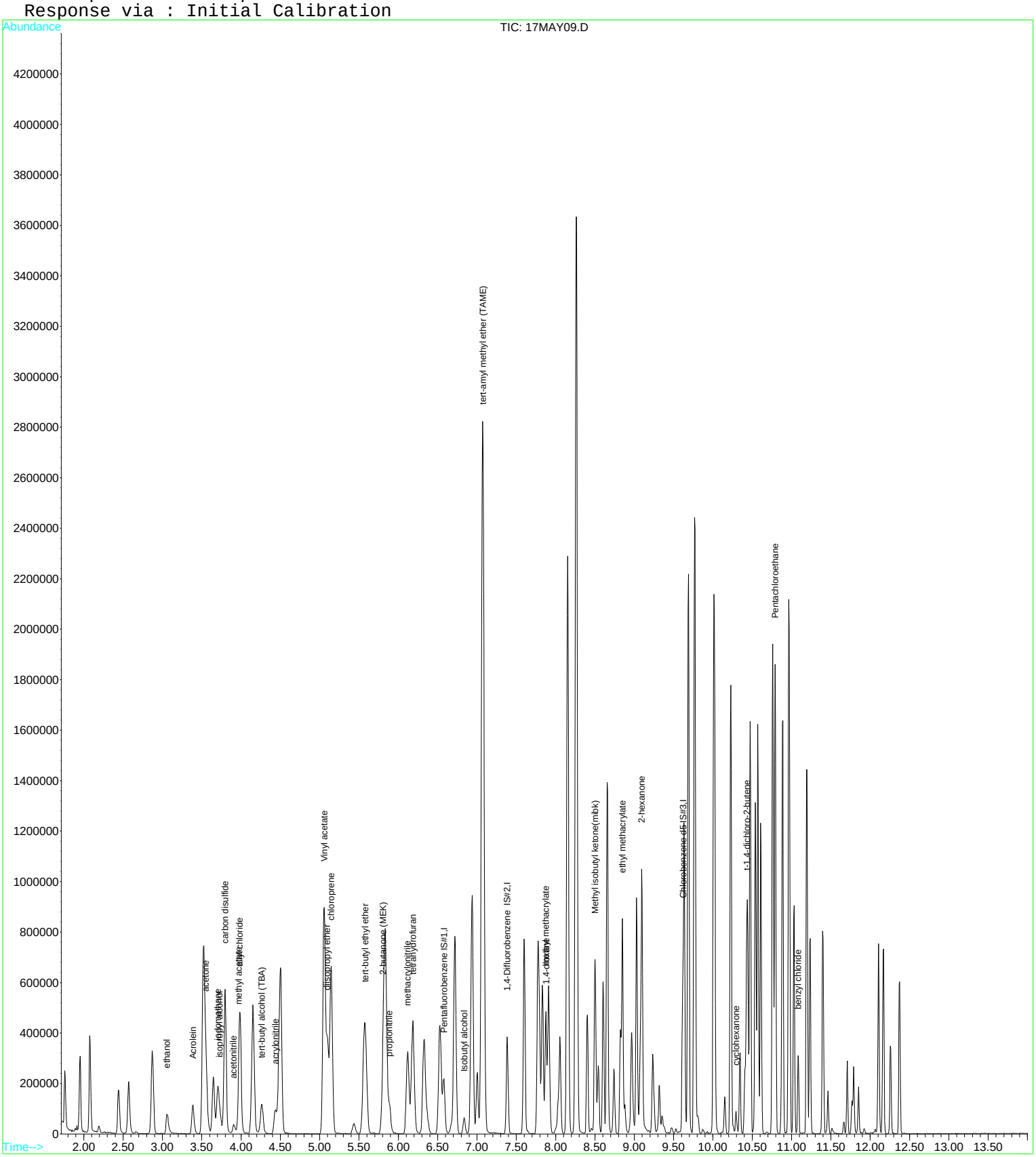
Target Compounds							Qvalue
2) ethanol	3.05	45	111749	4403.39	ug/L		100
6) isopropyl alcohol	3.73	45	109774	885.73	ug/L	#	10
7) Acrolein	3.39	56	127904	361.98	ug/L		92
8) acetone	3.56	43	199413	303.20	ug/L		99
9) tert-butyl alcohol (TBA)	4.26	59	181335	876.29	ug/L		100
10) acetonitrile	3.91	41	47412	151.10	ug/L		99
11) methyl acetate	3.97	43	78602	37.73	ug/L		96
12) allyl chloride	3.99	41	588515	37.15	ug/L		93
13) iodomethane	3.71	142	253071	26.55	ug/L		100
14) acrylonitrile	4.44	53	100758	86.46	ug/L		96
15) carbon disulfide	3.80	76	919715	39.97	ug/L		99
17) diisopropyl ether	5.10	87	109772	16.86	ug/L		99
18) Vinyl acetate	5.06	43	1131708	150.02	ug/L		98
19) chloroprene	5.15	53	569259	34.66	ug/L		100
20) tert-butyl ethyl ether	5.59	59	316658	15.58	ug/L		99
21) 2-butanone (MEK)	5.80	43	231968	185.29	ug/L		90
22) propionitrile	5.89	54	157181	397.19	ug/L		97
23) Isobutyl alcohol	6.84	43	47485	500.59	ug/L		95
24) methacrylonitrile	6.11	67	196522	166.46	ug/L		97
26) tetrahydrofuran	6.19	42	225208	320.77	ug/L		99
28) tert-amyl methyl ether (TA	7.08	73	186395	14.56	ug/L	#	33
30) methyl methacrylate	7.88	69	160195	75.30	ug/L		97
32) 1,4-dioxane	7.89	88	41176	2003.13	ug/L	#	70
33) Methyl isobutyl ketone(mib	8.50	43	387228	153.33	ug/L		100
34) ethyl methacrylate	8.85	69	364847	81.17	ug/L		96
35) 2-hexanone	9.10	43	507583	311.88	ug/L		96
38) cyclohexanone	10.29	55	32201	175.94	ug/L		99
39) t-1,4-dichloro-2-butene	10.43	75	156471	153.60	ug/L	#	59
41) Pentachloroethane	10.80	167	54978	15.69	ug/L	#	78
42) benzyl chloride	11.08	91	169510	29.89	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY09.D Vial: 9
Acq On : 17 May 2017 9:37 am Operator: MGC
Sample : B[E1839-MS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:39 2017 Quant Results File: 82605X.RES

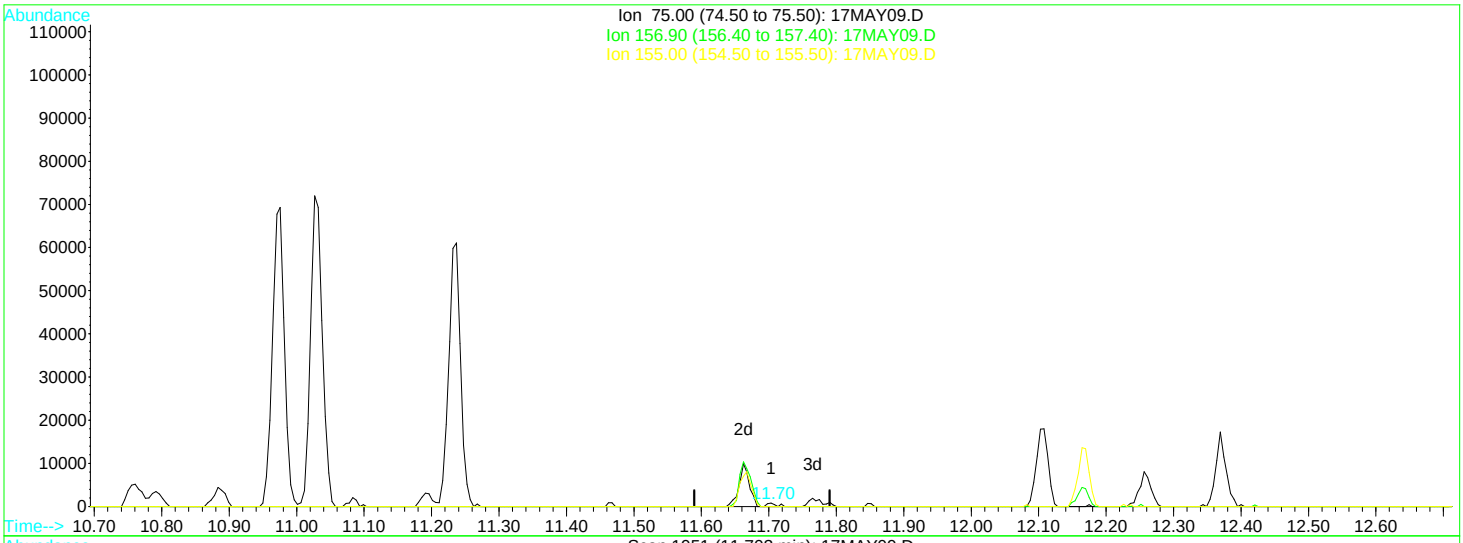
Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration

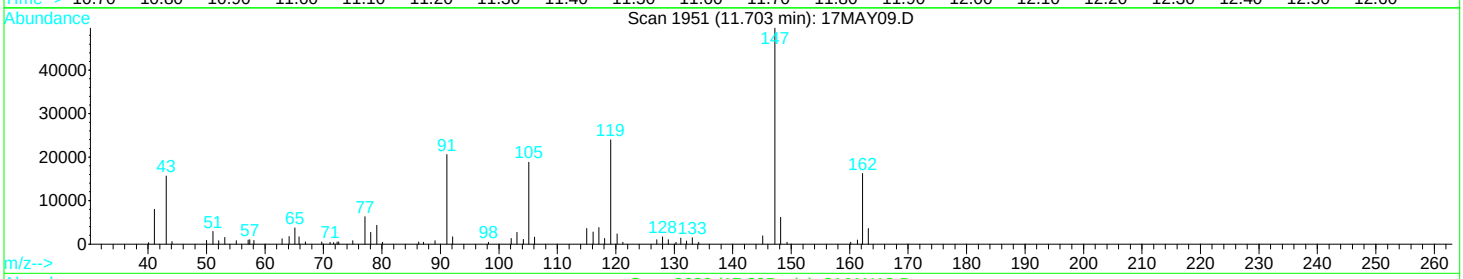


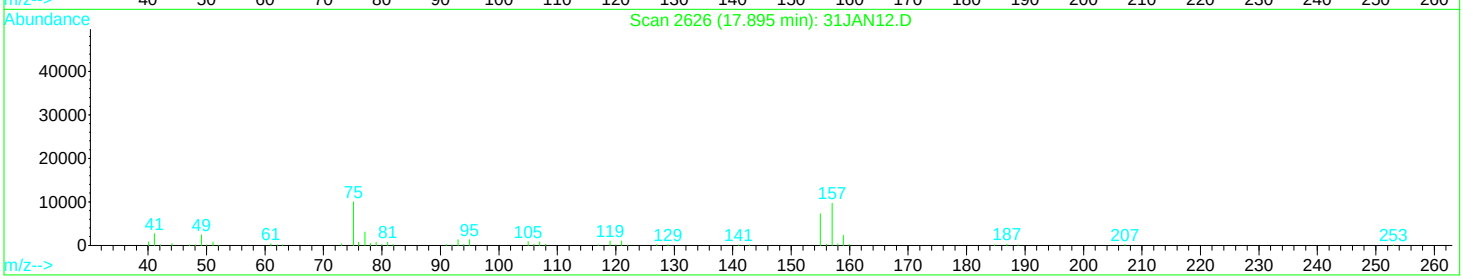
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY09.D Vial: 9
Acq On : 17 May 2017 9:37 am Operator: MGC
Sample : B[E1839-MS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 9:51 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Multiple Level Calibration







TIC: 17MAY09.D

(65) 1,2-dibromo-3-chloropropane

11.70min 3.79ug/L

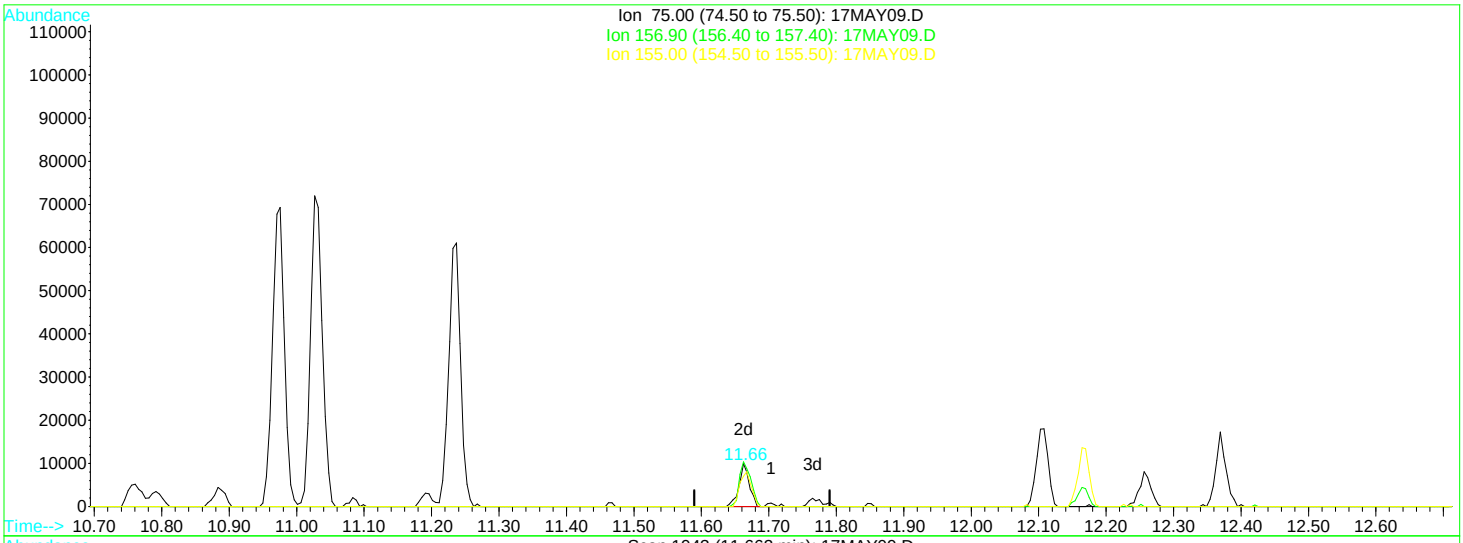
response 554

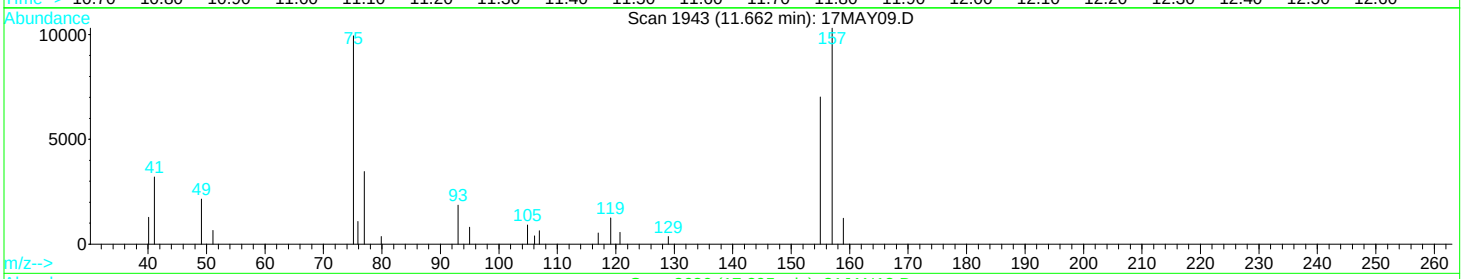
Ion	Exp%	Act%
75.00	100	100
156.90	99.20	0.00#
155.00	435.90	0.00#
0.00	0.00	0.00

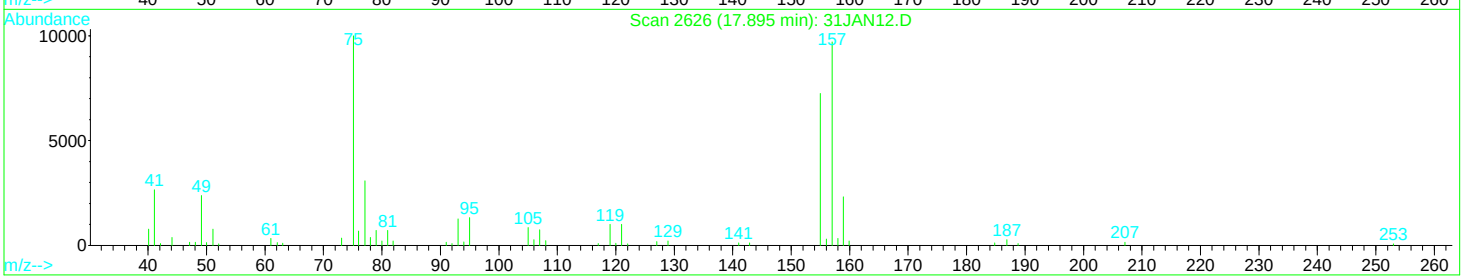
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY09.D Vial: 9
Acq On : 17 May 2017 9:37 am Operator: MGC
Sample : B[E1839-MS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:39 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Multiple Level Calibration







TIC: 17MAY09.D

(65) 1,2-dibromo-3-chloropropane

11.66min 21.54ug/L m

response 11238

Ion	Exp%	Act%
75.00	100	100
156.90	99.20	0.00#
155.00	435.90	0.00#
0.00	0.00	0.00

Raw Data - Matrix Spike Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY10.D Vial: 10
Acq On : 17 May 2017 10:00 am Operator: MGC
Sample : B[E1839-MSD1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:41 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173373	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	285141	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.61	119	67652	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	50323	8.82	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 88.20%							
31) Toluene d8 SMC#2	8.60	98	295097	9.29	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 92.90%							
49) Bromofluorobenzene SMC#3	10.34	95	86667	9.70	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.00%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	149012	19.09	ug/L		93
3) Chloromethane	1.95	50	260516	23.66	ug/L		91
4) Vinyl chloride	2.08	62	348306	30.87	ug/L	#	64
5) Bromomethane	2.44	94	123892	19.52	ug/L	#	99
6) Chloroethane	2.57	64	176278	26.54	ug/L	#	72
7) Trichlorofluoromethane	2.87	101	277603	24.80	ug/L		87
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	186550	26.95	ug/L	#	75
9) 1,1-Dichloroethene	3.52	61	344119	25.44	ug/L	#	82
10) Methylene chloride	4.15	84	177588	26.92	ug/L		86
11) MTBE	4.49	73	270473	24.84	ug/L	#	73
12) T-1,2-dichloroethene	4.51	96	232628	28.36	ug/L		95
13) 1,1-Dichloroethane	5.05	63	434012	24.73	ug/L		96
14) 2,2-Dichloropropane	5.83	77	310184	24.76	ug/L		83
15) Cis-1,2-dichloroethene	5.83	96	237805	27.29	ug/L		95
16) Bromochloromethane	6.18	128	69646	23.71	ug/L		68
17) Chloroform	6.32	83	338720	24.40	ug/L		100
18) 1,1,1-Trichloroethane	6.53	97	305785	24.77	ug/L	#	80
19) 1,1-Dichloropropene	6.72	75	280230	25.82	ug/L		91
20) Carbon tetrachloride	6.71	119	222545	25.04	ug/L	#	81
22) 1,2-Dichloroethane	7.01	62	158994	21.76	ug/L	#	91
23) Benzene	6.94	78	890832	27.22	ug/L	#	1
25) Trichloroethene	7.60	130	238408	25.19	ug/L	#	91
26) 1,2-Dichloropropane	7.83	63	226234	24.22	ug/L	#	72
27) Dibromomethane	7.91	93	59166	22.89	ug/L	#	59
28) Bromodichloromethane	8.06	83	198084	23.33	ug/L		95
29) 2-ceve	8.26	63	2879	1.59	ug/L	#	1
30) Cis-1,3-dichloropropene	8.40	75	252858	22.71	ug/L	#	84
32) Toluene	8.66	92	538553	25.52	ug/L		81
33) Trans-1,3-dichloropropene	8.82	75	178499	22.90	ug/L	#	84
34) 1,1,2-Trichloroethane	8.97	97	100591	24.57	ug/L		84
35) Tetrachloroethene (PCE)	9.03	166	223030	24.00	ug/L		86
36) 1,3-Dichloropropane	9.08	76	158270	23.00	ug/L		88
37) Dibromochloromethane	9.23	129	106890	22.90	ug/L	#	83
38) 1,2-Dibromoethane	9.32	107	90586	23.46	ug/L		92
40) Chlorobenzene	9.63	112	469661	25.60	ug/L	#	76
41) 1,1,1,2-Tetrachloroethane	9.69	131	141239	24.60	ug/L		72
42) Ethylbenzene	9.69	106	305471	26.57	ug/L		79
43) P+m-Xylene	9.77	106	747514	54.03	ug/L		85
44) O-Xylene	10.01	106	350597	25.40	ug/L		98
45) Styrene	10.02	104	506338	26.32	ug/L		91
46) Bromoform	10.15	173	47917	25.77	ug/L	#	35
47) Isopropylbenzene	10.23	105	877685	26.35	ug/L		97
48) 1,1,2,2-Tetrachloroethane	10.41	83	81328	25.82	ug/L	#	56
50) 1,2,3-Trichloropropane	10.45	110	17427	22.04	ug/L	#	100
51) n-propylbenzene	10.47	91	957206	27.22	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY10.D Vial: 10
Acq On : 17 May 2017 10:00 am Operator: MGC
Sample : B[E1839-MSD1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:41 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

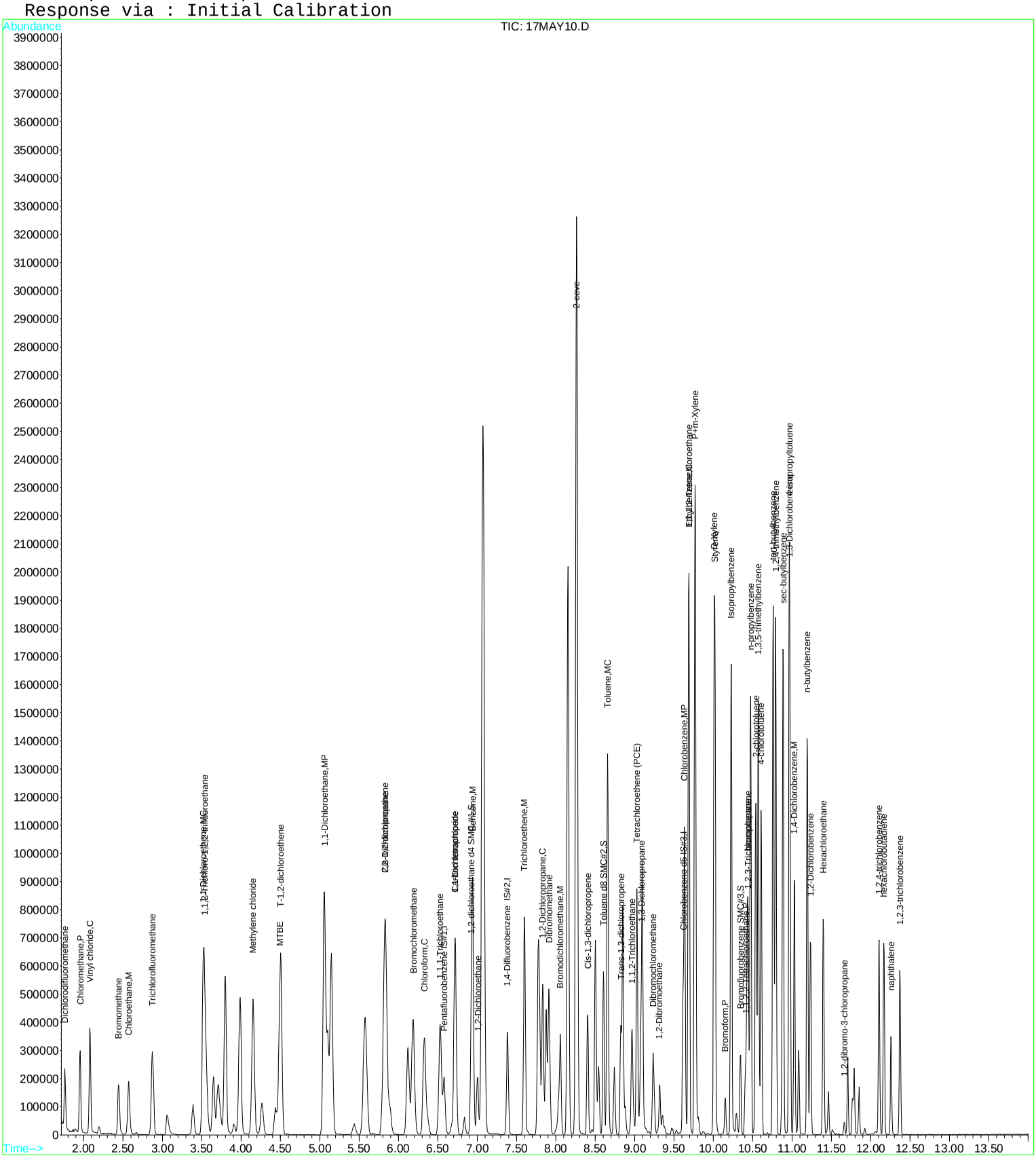
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	168369	24.81	ug/L		97
53)	1,3,5-trimethylbenzene	10.57	105	668239	26.80	ug/L		94
54)	2-chlorotoluene	10.54	91	611460	25.32	ug/L		92
55)	4-chlorotoluene	10.61	91	540136	26.42	ug/L		97
56)	tert-butylbenzene	10.76	119	789394	29.04	ug/L		78
57)	1,2,4-trimethylbenzene	10.79	105	643435	26.78	ug/L		100
58)	sec-butylbenzene	10.88	105	981481	29.27	ug/L		100
59)	4-isopropyltoluene	10.97	119	737011	27.47	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	302750	25.77	ug/L		88
61)	1,4-Dichlorobenzene	11.03	146	307278	26.93	ug/L		94
62)	n-butylbenzene	11.19	91	611490	27.43	ug/L		96
63)	1,2-Dichlorobenzene	11.23	146	240437	23.86	ug/L	#	88
64)	Hexachloroethane	11.40	117	111937	27.46	ug/L	#	71
65)	1,2-dibromo-3-chloropropan	11.66	75	10284m	21.17	ug/L		
66)	1,2,4-trichlorobenzene	12.11	180	188126	24.48	ug/L		93
67)	hexachlorobutadiene	12.17	225	120884	24.82	ug/L	#	92
68)	naphthalene	12.26	128	215465	23.98	ug/L		100
69)	1,2,3-trichlorobenzene	12.37	180	150821	23.34	ug/L	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY10.D Vial: 10
Acq On : 17 May 2017 10:00 am Operator: MGC
Sample : B[E1839-MSD1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:41 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY10.D Vial: 10
Acq On : 17 May 2017 10:00 am Operator: MGC
Sample : B[E1839-MSD1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:42 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173373	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	285141	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.61	119	67652	10.00	ug/L		0.00

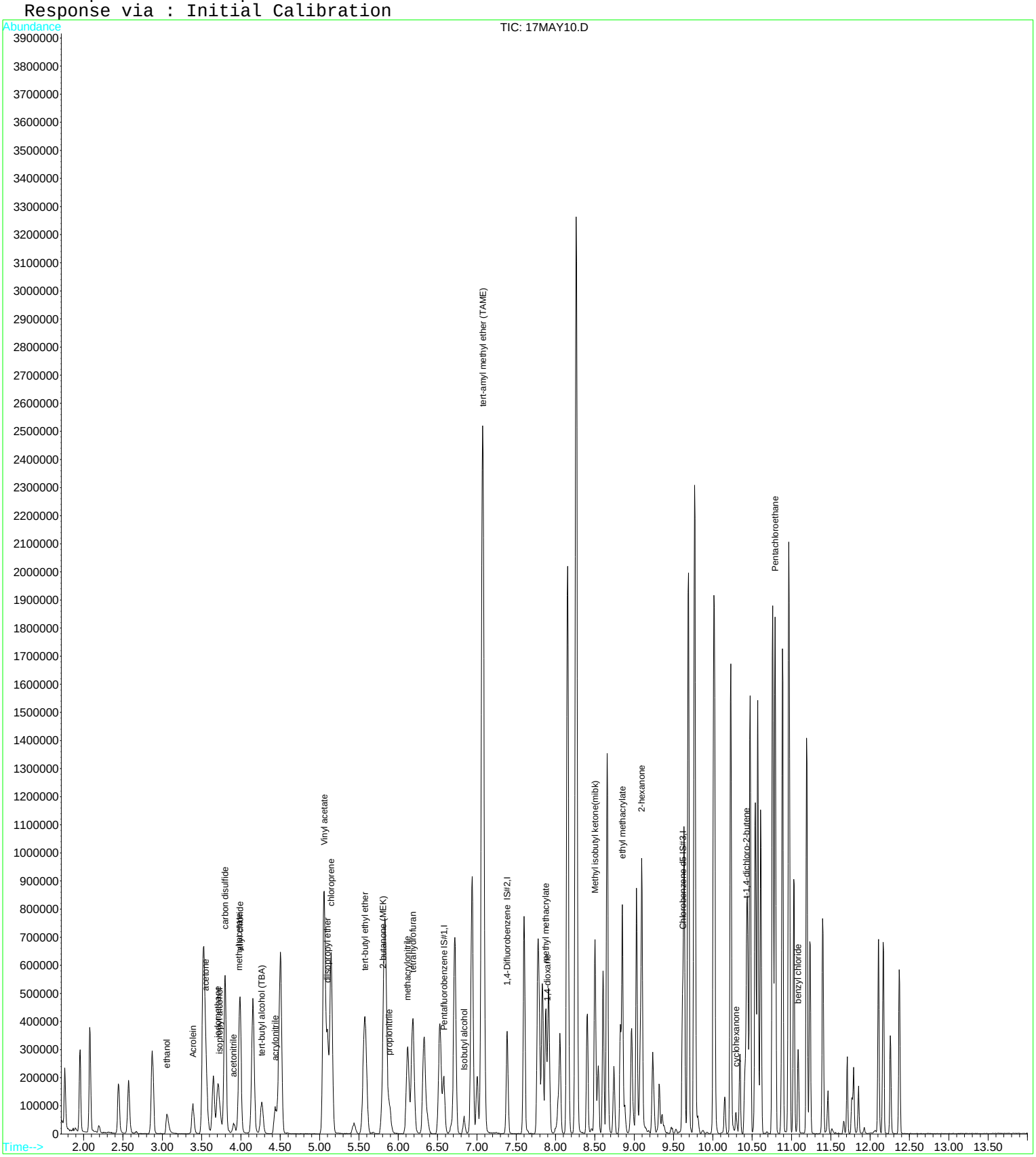
Target Compounds							Qvalue
2) ethanol	3.06	45	106071	4437.05	ug/L		99
6) isopropyl alcohol	3.73	45	107498	920.78	ug/L	#	10
7) Acrolein	3.39	56	117799	353.91	ug/L		89
8) acetone	3.56	43	185482	299.38	ug/L		99
9) tert-butyl alcohol (TBA)	4.26	59	176963	907.82	ug/L		100
10) acetonitrile	3.91	41	44984	152.19	ug/L		98
11) methyl acetate	3.97	43	77039	39.25	ug/L		97
12) allyl chloride	3.99	41	580091	38.87	ug/L		95
13) iodomethane	3.71	142	249258	27.76	ug/L		99
14) acrylonitrile	4.43	53	93222	84.92	ug/L		98
15) carbon disulfide	3.80	76	937388	43.50	ug/L		100
17) diisopropyl ether	5.09	87	104337	17.01	ug/L		97
18) Vinyl acetate	5.06	43	1098126	154.53	ug/L		99
19) chloroprene	5.15	53	550727	35.60	ug/L		99
20) tert-butyl ethyl ether	5.58	59	310570	16.22	ug/L		98
21) 2-butanone (MEK)	5.80	43	221787	188.06	ug/L		91
22) propionitrile	5.89	54	149008	399.73	ug/L		98
23) Isobutyl alcohol	6.84	43	39486	441.90	ug/L		98
24) methacrylonitrile	6.12	67	189154	170.09	ug/L		99
26) tetrahydrofuran	6.19	42	216428	327.24	ug/L		98
28) tert-amyl methyl ether (TA	7.08	73	182674	15.15	ug/L	#	44
30) methyl methacrylate	7.87	69	160080	77.54	ug/L		86
32) 1,4-dioxane	7.89	88	36796	1844.60	ug/L	#	61
33) Methyl isobutyl ketone(mib	8.50	43	397855	162.33	ug/L		97
34) ethyl methacrylate	8.85	69	353946	81.15	ug/L		96
35) 2-hexanone	9.10	43	475967	301.37	ug/L		96
38) cyclohexanone	10.29	55	29244	171.20	ug/L		93
39) t-1,4-dichloro-2-butene	10.42	75	156941	165.06	ug/L	#	57
41) Pentachloroethane	10.80	167	58988	18.03	ug/L	#	79
42) benzyl chloride	11.08	91	173222	32.72	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY10.D Vial: 10
Acq On : 17 May 2017 10:00 am Operator: MGC
Sample : B[E1839-MSD1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:42 2017 Quant Results File: 82605X.RES

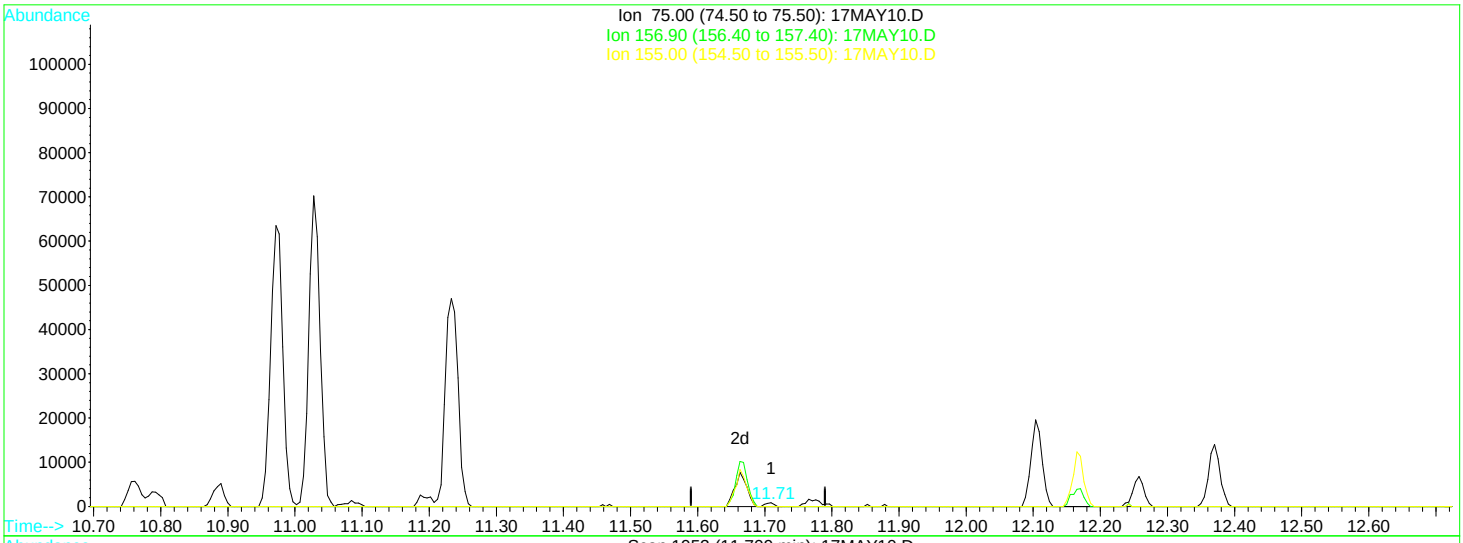
Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration

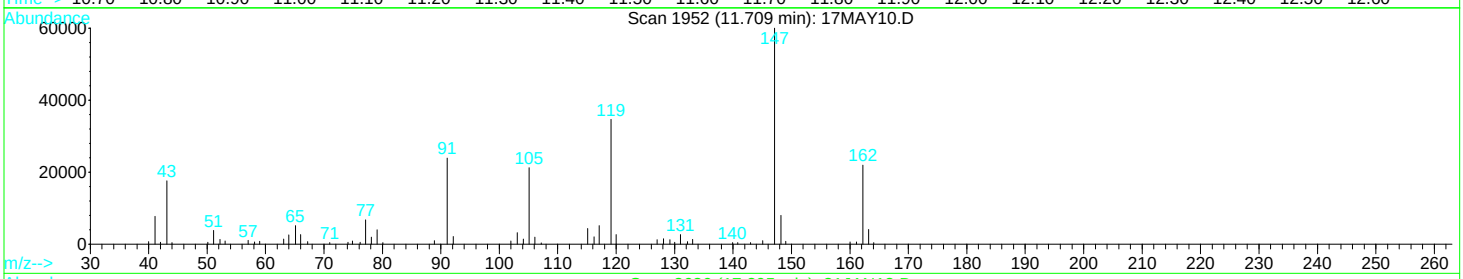


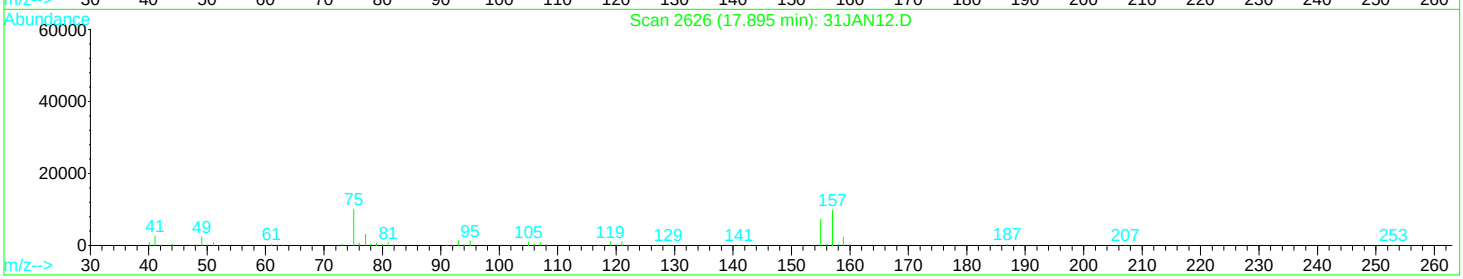
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY10.D Vial: 10
Acq On : 17 May 2017 10:00 am Operator: MGC
Sample : B[E1839-MSD1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 10:14 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Multiple Level Calibration







TIC: 17MAY10.D

(65) 1,2-dibromo-3-chloropropane

11.71min 4.20ug/L

response 745

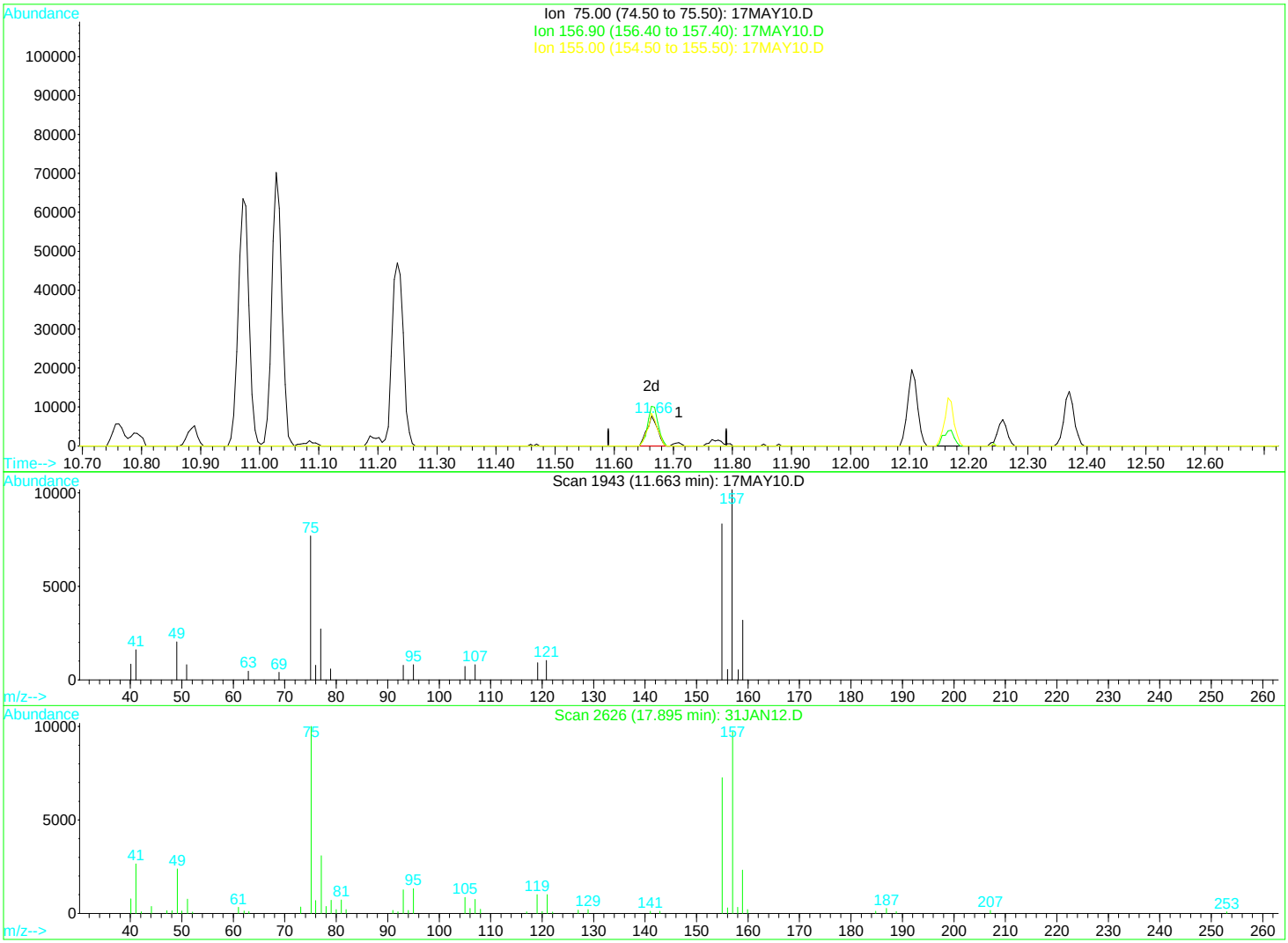
Ion	Exp%	Act%
75.00	100	100
156.90	99.20	0.00#
155.00	435.90	0.00#
0.00	0.00	0.00

17MAY10.D 82605.M Wed May 17 11:41:11 2017

Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY10.D Vial: 10
Acq On : 17 May 2017 10:00 am Operator: MGC
Sample : B[E1839-MSD1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:41 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Multiple Level Calibration



TIC: 17MAY10.D

(65) 1,2-dibromo-3-chloropropane

11.66min 21.17ug/L m

response 10284

Ion	Exp%	Act%
75.00	100	100
156.90	99.20	0.00#
155.00	435.90	0.00#
0.00	0.00	0.00

Raw Data - Lab Control Sample

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY08.D Vial: 8
Acq On : 17 May 2017 9:13 am Operator: MGC
Sample : B[E1839-BS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 9:28 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	181565	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.39	114	293445	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	75344	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	57832	9.68	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 96.80%							
31) Toluene d8 SMC#2	8.61	98	328876	10.06	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.60%							
49) Bromofluorobenzene SMC#3	10.34	95	91131	9.16	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 91.60%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	174741	21.37	ug/L		92
3) Chloromethane	1.96	50	271374	23.53	ug/L		89
4) Vinyl chloride	2.08	62	331059	28.02	ug/L	#	65
5) Bromomethane	2.44	94	105208	15.83	ug/L	#	95
6) Chloroethane	2.58	64	197340	28.37	ug/L	#	72
7) Trichlorofluoromethane	2.87	101	310587	26.49	ug/L		85
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	209037	28.84	ug/L	#	78
9) 1,1-Dichloroethene	3.52	61	387475	27.35	ug/L	#	86
10) Methylene chloride	4.15	84	184830	26.76	ug/L		89
11) MTBE	4.49	73	290740	25.49	ug/L	#	74
12) T-1,2-dichloroethene	4.50	96	243391	28.34	ug/L		94
13) 1,1-Dichloroethane	5.06	63	488596	26.58	ug/L		97
14) 2,2-Dichloropropane	5.84	77	344700	26.28	ug/L		88
15) Cis-1,2-dichloroethene	5.83	96	243451	26.68	ug/L		96
16) Bromochloromethane	6.18	128	75064	24.36	ug/L		64
17) Chloroform	6.33	83	367001	25.24	ug/L		96
18) 1,1,1-Trichloroethane	6.53	97	351846	27.22	ug/L	#	83
19) 1,1-Dichloropropene	6.72	75	316699	27.87	ug/L		92
20) Carbon tetrachloride	6.72	119	250500	26.91	ug/L	#	82
22) 1,2-Dichloroethane	7.00	62	196234	25.65	ug/L	#	88
23) Benzene	6.94	78	969734	28.29	ug/L	#	2
25) Trichloroethene	7.60	130	254986	26.18	ug/L	#	94
26) 1,2-Dichloropropane	7.83	63	257238	26.76	ug/L	#	78
27) Dibromomethane	7.90	93	69569	26.15	ug/L	#	55
28) Bromodichloromethane	8.06	83	220343	25.22	ug/L		93
29) 2-ceve	8.28	63	251654	134.66	ug/L	#	75
30) Cis-1,3-dichloropropene	8.40	75	289038	25.22	ug/L	#	85
32) Toluene	8.66	92	590435	27.19	ug/L		79
33) Trans-1,3-dichloropropene	8.82	75	196375	24.48	ug/L		87
34) 1,1,2-Trichloroethane	8.97	97	110911	26.33	ug/L		84
35) Tetrachloroethene (PCE)	9.03	166	247285	25.85	ug/L		88
36) 1,3-Dichloropropane	9.08	76	174414	24.63	ug/L		88
37) Dibromochloromethane	9.24	129	118311	24.63	ug/L	#	82
38) 1,2-Dibromoethane	9.32	107	100062	25.18	ug/L		90
40) Chlorobenzene	9.64	112	524493	25.67	ug/L		80
41) 1,1,1,2-Tetrachloroethane	9.69	131	158336	24.76	ug/L		72
42) Ethylbenzene	9.69	106	336726	26.30	ug/L		82
43) P+m-Xylene	9.77	106	797821	51.78	ug/L		88
44) O-Xylene	10.01	106	385714	25.09	ug/L		99
45) Styrene	10.02	104	544374	25.41	ug/L		92
46) Bromoform	10.15	173	52380	25.29	ug/L	#	33
47) Isopropylbenzene	10.23	105	953577	25.71	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.41	83	91128	25.97	ug/L	#	55
50) 1,2,3-Trichloropropane	10.45	110	20559	23.35	ug/L	#	100
51) n-propylbenzene	10.47	91	993446	25.37	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY08.D Vial: 8
Acq On : 17 May 2017 9:13 am Operator: MGC
Sample : B[E1839-BS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 9:28 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration
DataAcq Meth : 82605

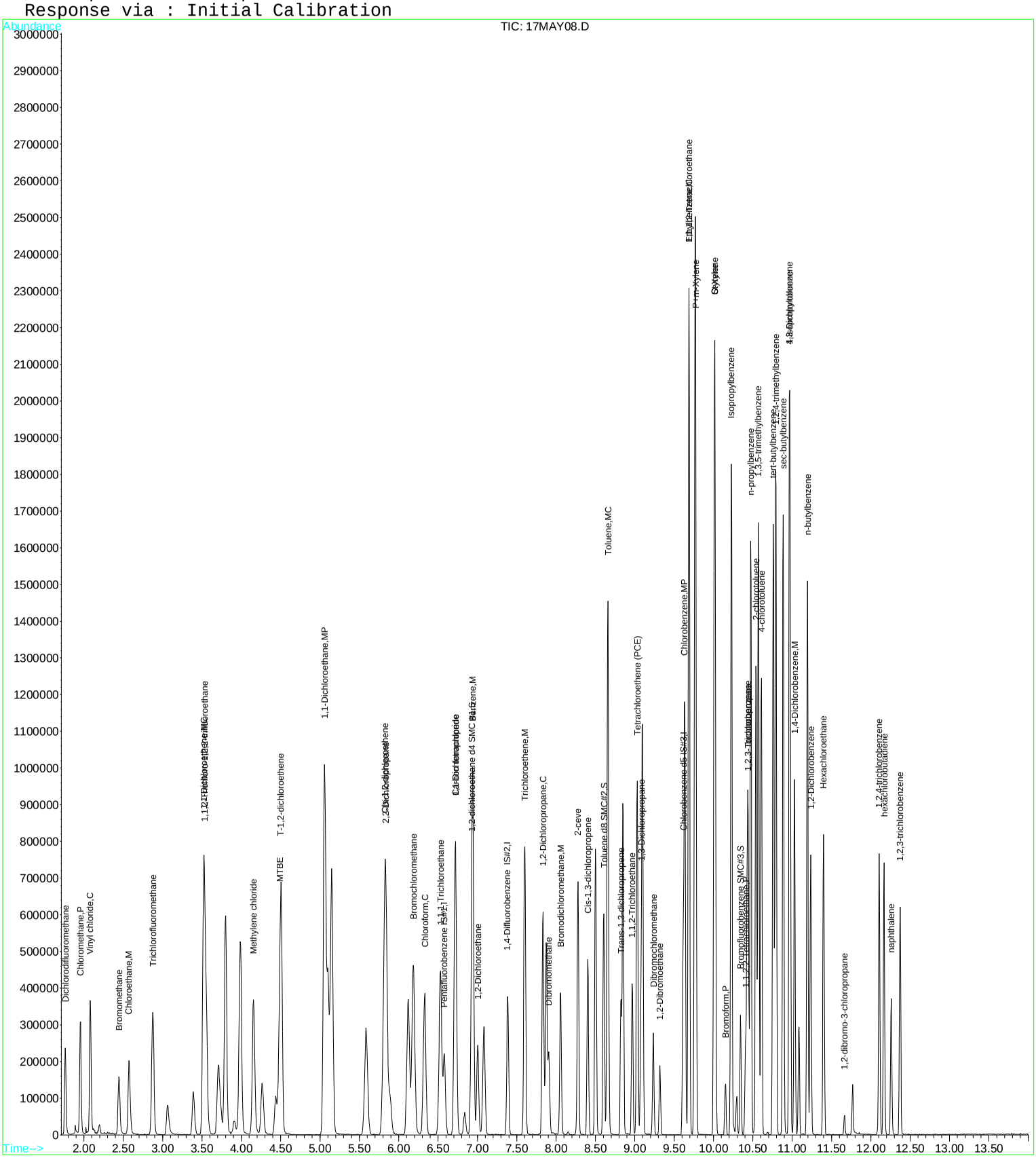
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	181072	23.95	ug/L		97
53)	1,3,5-trimethylbenzene	10.57	105	693132	24.96	ug/L		94
54)	2-chlorotoluene	10.54	91	647251	24.06	ug/L		91
55)	4-chlorotoluene	10.61	91	575543	25.28	ug/L		97
56)	tert-butylbenzene	10.76	119	704358	23.26	ug/L		87
57)	1,2,4-trimethylbenzene	10.79	105	646705	24.17	ug/L		98
58)	sec-butylbenzene	10.89	105	962477	25.78	ug/L		98
59)	4-isopropyltoluene	10.96	119	734062	24.56	ug/L		97
60)	1,3-Dichlorobenzene	10.97	146	304606	23.28	ug/L		89
61)	1,4-Dichlorobenzene	11.03	146	310998	24.48	ug/L		94
62)	n-butylbenzene	11.19	91	640074	25.78	ug/L		95
63)	1,2-Dichlorobenzene	11.24	146	249567	22.23	ug/L	#	86
64)	Hexachloroethane	11.40	117	117018	25.78	ug/L	#	70
65)	1,2-dibromo-3-chloropropan	11.66	75	12894	23.48	ug/L	#	1
66)	1,2,4-trichlorobenzene	12.11	180	194583	22.74	ug/L		96
67)	hexachlorobutadiene	12.17	225	131384	24.22	ug/L	#	94
68)	naphthalene	12.26	128	219471	21.93	ug/L		100
69)	1,2,3-trichlorobenzene	12.37	180	159384	22.15	ug/L	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY08.D Vial: 8
Acq On : 17 May 2017 9:13 am Operator: MGC
Sample : B[E1839-BS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 9:28 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-0956\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Apr 13 11:16:24 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY08.D Vial: 8
Acq On : 17 May 2017 9:13 am Operator: MGC
Sample : B[E1839-BS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:38 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	181565	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.39	114	293445	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	75344	10.00	ug/L		0.00

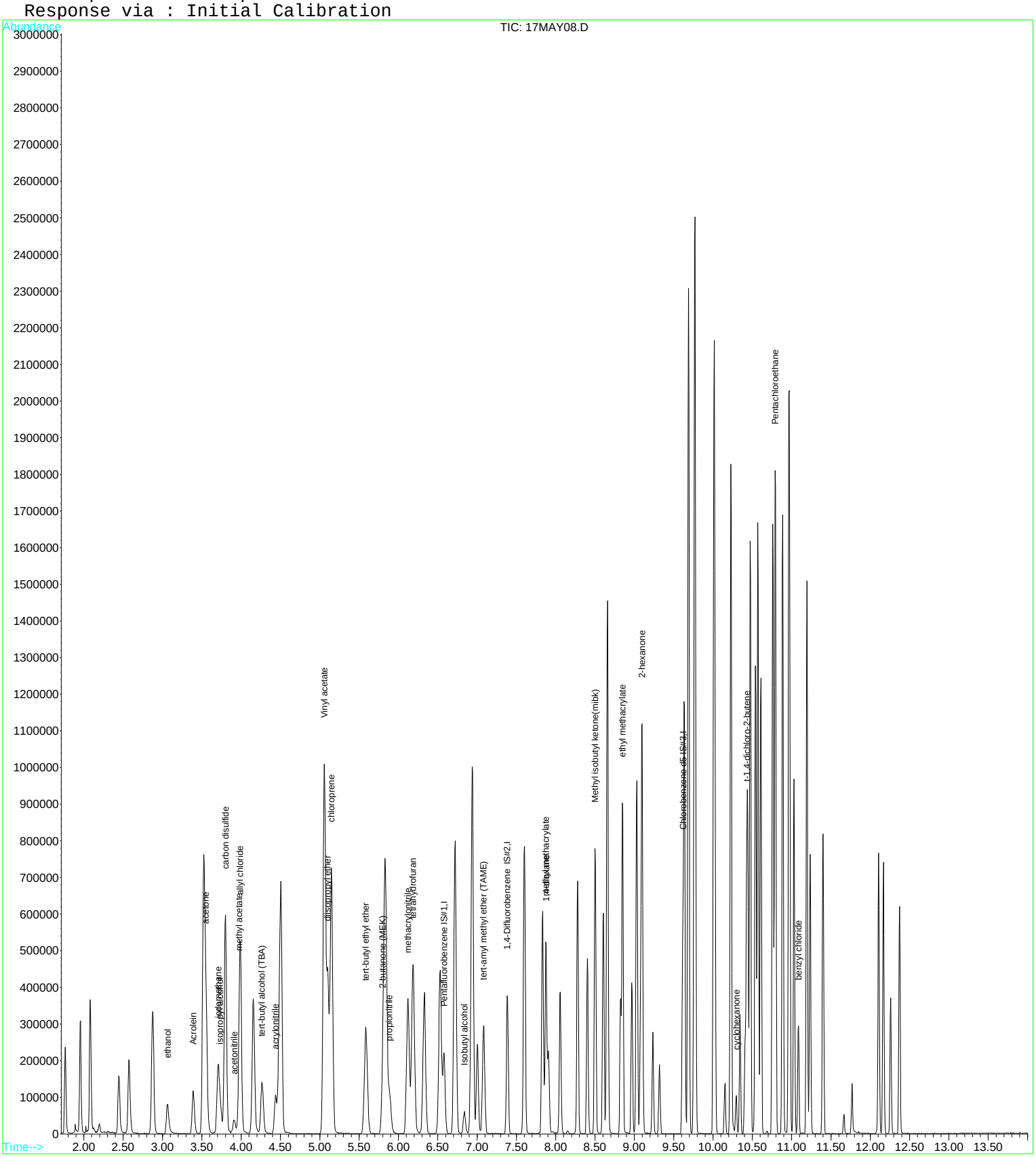
Target Compounds							Qvalue
2) ethanol	3.07	45	113572	4536.47	ug/L		99
6) isopropyl alcohol	3.73	45	119212	975.05	ug/L	#	10
7) Acrolein	3.39	56	131043	375.94	ug/L		90
8) acetone	3.56	43	213749	329.44	ug/L		98
9) tert-butyl alcohol (TBA)	4.26	59	212739	1042.11	ug/L		100
10) acetonitrile	3.91	41	53081	171.49	ug/L		97
11) methyl acetate	3.97	43	90671	44.11	ug/L		95
12) allyl chloride	3.99	41	631391	40.40	ug/L		93
13) iodomethane	3.71	142	254601	27.08	ug/L		98
14) acrylonitrile	4.44	53	101624	88.40	ug/L		99
15) carbon disulfide	3.80	76	977997	43.33	ug/L		100
17) diisopropyl ether	5.10	87	123574	19.23	ug/L		98
18) Vinyl acetate	5.06	43	1309664	175.99	ug/L		97
19) chloroprene	5.15	53	616639	38.06	ug/L		97
20) tert-butyl ethyl ether	5.58	59	371837	18.54	ug/L		96
21) 2-butanone (MEK)	5.79	43	210574	170.50	ug/L		98
22) propionitrile	5.89	54	159605	408.84	ug/L		99
23) Isobutyl alcohol	6.84	43	46296	494.73	ug/L		96
24) methacrylonitrile	6.12	67	213259	183.11	ug/L		96
26) tetrahydrofuran	6.19	42	253142	365.49	ug/L		97
28) tert-amyl methyl ether (TA	7.09	73	229847	18.20	ug/L		97
30) methyl methacrylate	7.87	69	179663	84.56	ug/L		93
32) 1,4-dioxane	7.88	88	40971	1995.77	ug/L		99
33) Methyl isobutyl ketone(mib	8.50	43	447159	177.29	ug/L		97
34) ethyl methacrylate	8.85	69	383322	85.39	ug/L		98
35) 2-hexanone	9.10	43	565054	347.65	ug/L		97
38) cyclohexanone	10.30	55	42409	222.92	ug/L		97
39) t-1,4-dichloro-2-butene	10.43	75	162589	153.54	ug/L	#	59
41) Pentachloroethane	10.79	167	56623	15.54	ug/L	#	78
42) benzyl chloride	11.09	91	172452	29.25	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\MAY2017\MAY17\17MAY08.D Vial: 8
Acq On : 17 May 2017 9:13 am Operator: MGC
Sample : B[E1839-BS1 Inst : MS-V5
Misc : 1 VO-108-69995;69950;69951;69952;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 17 11:38 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201704\13-1518\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Apr 14 05:28:02 2017
Response via : Initial Calibration



Raw Data - Batch Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1839

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Volatiles - GC/MS - EPA 5030 Water MS | SurrogateUsed: 7C31007

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1713026-01 A	g8260w Full	5/17/2017 7:00AM	MGC	25	25				4	
1713026-02 A	g8260w Full2	5/17/2017 7:00AM	MGC	25	25				4	
1713026-03 A	g8260w Full	5/17/2017 7:00AM	MGC	25	25				4	
1713026-04 A	g8260w Full2	5/17/2017 7:00AM	MGC	25	25				4	
1713026-05 A	g8260w Full2	5/17/2017 7:00AM	MGC	25	25				4	
1713026-06 A	g8260w Full2	5/17/2017 7:00AM	MGC	25	25				4	
1713026-07 A	g8260w Full2	5/17/2017 7:00AM	MGC	25	25				4	
1713026-08 A	g8260w Full2	5/17/2017 7:00AM	MGC	25	25				4	
1713026-09 A	g8260w Full	5/17/2017 7:00AM	MGC	25	25				4	
1713026-09RE1 B	g8260w Full	5/17/2017 7:00AM	MGC	25	25				4	
1713027-01 A	g8260w Full	5/17/2017 7:00AM	MGC	25	25				4	
1713027-01RE1 B	g8260w Full	5/17/2017 7:00AM	MGC	25	25				4	
1713059-01 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-02 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-03 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-04 A	g8260w Full2	5/17/2017 7:00AM		25	25				4	
1713059-04 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-04 A	g8260w Full	5/17/2017 7:00AM		25	25				4	
1713059-05 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-06 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-07 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-08 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-09 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
1713059-10 A	gm8260w Full QC Navy	5/17/2017 7:00AM	MGC	25	25				4	
B[E1839-BLK1	QC	5/17/2017 7:00AM	MGC	25	25				4	

PREPARATION BENCH SHEET

B[E1839

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water

Prepared using: Volatiles - GC/MS - EPA 5030 Water MS

SurrogateUsed: 7C31007

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
B[E1839-BS1	QC	5/17/2017 7:00AM	MGC	25	25	7E07087		12.5	4	
B[E1839-MS1	QC	5/17/2017 7:00AM	MGC	25	25	7E07087	1713059-04	12.5	4	
B[E1839-MSD1	QC	5/17/2017 7:00AM	MGC	25	25	7E07087	1713059-04	12.5	4	

Surrogate Mixes	Description	Solvent	Prepared	Expires
7C31007	8260 V5 WORK SURR. STD BATCH	Methanol VRL-15-5590	3/31/2017 by Miguel Chavez	6/30/2017
7E07087	8260 V5 I SPIKE COMBO	meoh	5/7/2017 by Miguel Chavez	6/27/2017

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1706245

Instrument: MS-V5
Calibration ID: 1704006
Sequence Date: 04/13/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1706245-TUN1	QC		1		7C28030		
1706245-CAL1	QC		2		7D14008		
1706245-CAL2	QC		3		7D14009		
1706245-CAL3	QC		4		7D14010		
1706245-CAL4	QC		5		7D14011		
1706245-CAL5	QC		6		7D14012		
1706245-CAL6	QC		7		7D14013		
1706245-CAL9	QC		8		7D14017		
1706245-CALA	QC		9		7D14018		
1706245-CALB	QC		10		7D14019		
1706245-CALC	QC		11		7D14020		
1706245-TUN2	QC		12		7C28031		
1706245-CALD	QC		13		7D14022		
1706245-CALE	QC		14		7D14023		
1706245-CALF	QC		15		7D14024		
1706245-CALG	QC		16		7D14025		
1706245-CALH	QC		17		7D14026		
1706245-CALI	QC		18		7D14027		
1706245-CAL7	QC		19		7D14015		
1706245-CAL8	QC		20		7D14016		

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1708684

Instrument: MS-V5
Calibration ID: 1704006 Sequence Date: 05/17/2017 Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708684-ICV1	QC		1		7D14014		
1708684-ICB1	QC		2		7D03046		
1708684-ICV2	QC		3		7D14021		
1708684-ICB2	QC		4		7D03046		
1708684-TUN1	QC		5		7C28031		
1708684-CCV1	QC		6		7E07085		
1708684-CCV2	QC		7		7E07086		
1708684-CCV3	QC		8		7D03044		
1708684-CCB1	QC		9		7D03046		
B[E1839-BLK1	QC		10			7C31005	
1713059-04	g8260w Full	A	11			7C31005	BatchQC
1713059-04	g8260w Full2	A	12			7C31005	BatchQC
1713059-04	gm8260w Full QC Navy	A	13			7C31005	Full SAP LIST
B[E1839-BS1	QC		14			7C31005	
B[E1839-MS1	QC		15			7C31005	
B[E1839-MSD1	QC		16			7C31005	
1713059-01	gm8260w Full QC Navy	A	17			7C31005	Full SAP LIST
1713059-02	gm8260w Full QC Navy	A	18			7C31005	Full SAP LIST
1713059-03	gm8260w Full QC Navy	A	19			7C31005	Full SAP LIST
1713059-05	gm8260w Full QC Navy	A	20			7C31005	Full SAP LIST
1713059-08	gm8260w Full QC Navy	A	21			7C31005	Full SAP LIST
1713059-09	gm8260w Full QC Navy	A	22			7C31005	Full SAP LIST
1713059-10	gm8260w Full QC Navy	A	23			7C31005	Full SAP LIST
1713026-01	g8260w Full	A	24			7C31005	VOCs + TPHg (List provided by Jeff. 5/12/17
1713026-02	g8260w Full2	A	25			7C31005	VOCs (List provided by Jeff. 5/12/17)
1713026-03	g8260w Full	A	26			7C31005	VOCs + TPHg (List provided by Jeff. 5/12/17)
1713026-04	g8260w Full2	A	27			7C31005	VOCs (List provided by Jeff. 5/12/17)
1713026-05	g8260w Full2	A	28			7C31005	VOCs (List provided by Jeff. 5/12/17)
1713026-06	g8260w Full2	A	29			7C31005	VOCs (List provided by Jeff. 5/12/17)
1713026-07	g8260w Full2	A	30			7C31005	VOCs (List provided by Jeff. 5/12/17)
1713059-06	gm8260w Full QC Navy	A	31			7C31005	Full SAP LIST
1713059-07	gm8260w Full QC Navy	A	32			7C31005	Full SAP LIST
1708684-TUN2	QC		33		7C28031		
1708684-CCV4	QC		34		7E07085		
1708684-CCV5	QC		35		7E07086		

ANALYSIS SEQUENCE

1708684

Instrument: MS-V5
Calibration ID: 1704006
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708684-CCV6	QC		36		7D03044		
1708684-CCB2	QC		37		7D03046		
B[E1840-BLK1	QC		38			7C31005	
1713020-03	g8260w Full	A	39			7C31005	
1713020-03	g8260w Full4	A	40			7C31005	BatchQC
1713020-03	g8260w TICs	A	41			7C31005	
1713027-01	g8260w Full	A	42			7C31005	VOCs + TPHg (List provided by Jeff. 5/12/17
1713020-01	g8260w Full	A	43			7C31005	
1713020-01	g8260w TICs	A	44			7C31005	
1713020-02	g8260w Full	A	45			7C31005	
1713020-02	g8260w TICs	A	46			7C31005	
B[E1840-BS1	QC		47			7C31005	
B[E1840-MS1	QC		48			7C31005	
B[E1840-MSD1	QC		49			7C31005	
1713074-01	g8260w Full	A	50			7C31005	Extended List
1713074-02	g8260w Full	A	51			7C31005	Extended List
1713074-03	g8260w Full	A	52			7C31005	Extended List
1713074-04	g8260w Full	A	53			7C31005	Extended List
1713074-05	g8260w Full	A	54			7C31005	Extended List
1713074-06	g8260w Full	A	55			7C31005	Extended List
1713135-01	g8260w Full4	A	56			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-02	g8260w Full4	A	57			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-03	g8260w Full4	A	58			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-04	g8260w Full4	A	59			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-05	g8260w Full4	A	60			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-06	g8260w Full4	A	61			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-07	g8260w Full4	A	62			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-08	g8260w Full4	A	63			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713135-09	g8260w Full4	A	64			7C31005	Qtrly CO/Lahnotan list + Appen I + Oxygenates
1713026-08	g8260w Full2	A	65			7C31005	VOCs (List provided by Jeff. 5/12/17)
1713026-09	g8260w Full	A	66			7C31005	VOCs + TPHg (List provided by Jeff. 5/12/17)

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **1713059**
Class: **WET**
Method: **EPA-300.0**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-300.0

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27MW09_170511	1713059-04
27MW09_170511	1713059-04RE2
27MW10_170511	1713059-05
27MW11_170511	1713059-06
27MW12_170511	1713059-08
27MW13_170511	1713059-09
27MW14_170511	1713059-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 06-13-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-300.0

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: IC1

Analyte	DL	LOD	LOQ	Units
Chloride	0.077	0.1	0.5	mg/L
Nitrate as NO3	0.092	0.23	0.44	mg/L
Nitrate as N	0.021	0.05	0.1	mg/L
Sulfate	0.13	0.2	1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04
File ID: A051217.seq-08
Sampled: 05/11/17 09:38
Prepared: 05/12/17 08:00
Analyzed: 05/12/17 12:33
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1582
Sequence: 1708561
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	240	0.65	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04RE2
File ID: A051217.seq-26
Sampled: 05/11/17 09:38
Prepared: 05/12/17 08:00
Analyzed: 05/12/17 18:46
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1582
Sequence: 1708561
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	2100	1.5	2.0	10	20	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-05
File ID: A051217.seq-12
Sampled: 05/11/17 11:34
Prepared: 05/12/17 08:00
Analyzed: 05/12/17 13:45
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1582
Sequence: 1708561
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	35	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	1	U	EPA-300.0
14808-79-8	Sulfate	11	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW11_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-06
File ID: A051217.seq-13
Sampled: 05/11/17 08:20
Prepared: 05/12/17 08:00
Analyzed: 05/12/17 14:03
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1582
Sequence: 1708561
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	190	0.15	0.20	1.0	2	D	EPA-300.0
14797-55-8	Nitrate as N	0.10	0.042	0.10	0.20	2	UD	EPA-300.0
14808-79-8	Sulfate	61	0.26	0.40	2.0	2	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW12_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-08
File ID: A051217.seq-14
Sampled: 05/11/17 09:37
Prepared: 05/12/17 08:00
Analyzed: 05/12/17 14:21
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1582
Sequence: 1708561
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	17	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.82	0.021	0.050	0.10	1		EPA-300.0
14808-79-8	Sulfate	52	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW13_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-09
File ID: A051217.seq-15
Sampled: 05/11/17 11:05
Prepared: 05/12/17 08:00
Analyzed: 05/12/17 14:39
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1582
Sequence: 1708561
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	830	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	350	0.65	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW14_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-10
File ID: A051217.seq-16
Sampled: 05/11/17 08:15
Prepared: 05/12/17 08:00
Analyzed: 05/12/17 14:57
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1582
Sequence: 1708561
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	41	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	1.3	0.021	0.050	0.10	1		EPA-300.0
14808-79-8	Sulfate	72	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1582
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW09_170511	1713059-04	A051217.seq-08	05/12/17 08:00	
27MW09_170511	1713059-04RE2	A051217.seq-26	05/12/17 08:00	Added 5/15/2017 by JSW
27MW10_170511	1713059-05	A051217.seq-12	05/12/17 08:00	
27MW11_170511	1713059-06	A051217.seq-13	05/12/17 08:00	
27MW12_170511	1713059-08	A051217.seq-14	05/12/17 08:00	
27MW13_170511	1713059-09	A051217.seq-15	05/12/17 08:00	
27MW14_170511	1713059-10	A051217.seq-16	05/12/17 08:00	
Blank	B[E1582-BLK1	A051217.seq-04	05/12/17 08:00	
LCS	B[E1582-BS1	A051217.seq-05	05/12/17 08:00	
27MW09_170511	B[E1582-DUP1	A051217.seq-27	05/12/17 08:00	
27MW09_170511	B[E1582-MS1	A051217.seq-28	05/12/17 08:00	
27MW09_170511	B[E1582-MSD1	A051217.seq-29	05/12/17 08:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1582-BLK1	File ID:	A051217.seq-04
Prepared:	05/12/17 08:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	05/12/17 09:30	Instrument:	IC1		
Batch:	B[E1582	Sequence:	1708561	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.10	0.077	0.10	0.50	U
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.13	0.20	1.0	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

27MW09_170511

DUPLICATES
EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[E1582
Preparation: No Prep
Source Sample Name: 27MW09_170511

SDG: 1713059
Project: Alameda
Laboratory ID: B[E1582-DUP1
Lab Source ID: 1713059-04RE2
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	2142.0		2148.0		0.277		EPA-300.0
Nitrate as NO3	10	0.0000		ND				EPA-300.0
Nitrate as N	10	0.0000		ND				EPA-300.0
Sulfate	10	225.32		227.48		0.954		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1582
Laboratory ID: B[E1582-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1713059-04RE2

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	1010.1	2142.0	3141.7	99.0	80 - 120
Nitrate as NO3	447.15	ND	447.15	100	80 - 120
Nitrate as N	101.01	ND	101.01	100	80 - 120
Sulfate	2020.2	225.32	2284.6	102	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	1010.1	3133.9	98.2	0.249	10	80 - 120
Nitrate as NO3	447.15	442.32	98.9	1.09	10	80 - 120
Nitrate as N	101.01	99.919	98.9	1.09	10	80 - 120
Sulfate	2020.2	2278.8	102	0.254	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1582
Laboratory ID: B[E1582-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	49.328	98.7	90 - 110
Nitrate as NO3	22.134	21.678	97.9	90 - 110
Nitrate as N	5.0000	4.8970	97.9	90 - 110
Sulfate	100.00	97.863	97.9	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708561
Instrument: IC1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1708561-ICV1	A051217.seq-02	05/12/17 08:54
Initial Cal Blank	1708561-ICB1	A051217.seq-03	05/12/17 09:12
Blank	B[E1582-BLK1	A051217.seq-04	05/12/17 09:30
LCS	B[E1582-BS1	A051217.seq-05	05/12/17 09:48
Calibration Check	1708561-CCV1	A051217.seq-06	05/12/17 11:57
Calibration Blank	1708561-CCB1	A051217.seq-07	05/12/17 12:15
27MW09_170511	1713059-04	A051217.seq-08	05/12/17 12:33
27MW10_170511	1713059-05	A051217.seq-12	05/12/17 13:45
27MW11_170511	1713059-06	A051217.seq-13	05/12/17 14:03
27MW12_170511	1713059-08	A051217.seq-14	05/12/17 14:21
27MW13_170511	1713059-09	A051217.seq-15	05/12/17 14:39
27MW14_170511	1713059-10	A051217.seq-16	05/12/17 14:57
Calibration Check	1708561-CCV2	A051217.seq-18	05/12/17 15:33
Calibration Blank	1708561-CCB2	A051217.seq-19	05/12/17 15:51
Calibration Check	1708561-CCV3	A051217.seq-23	05/12/17 17:03
Calibration Blank	1708561-CCB3	A051217.seq-24	05/12/17 17:21
27MW09_170511	1713059-04RE2	A051217.seq-26	05/12/17 18:46
27MW09_170511	B[E1582-DUP1	A051217.seq-27	05/12/17 19:04
27MW09_170511	B[E1582-MS1	A051217.seq-28	05/12/17 19:22
27MW09_170511	B[E1582-MSD1	A051217.seq-29	05/12/17 19:40
Calibration Check	1708561-CCV4	A051217.seq-30	05/12/17 19:58
Calibration Blank	1708561-CCB4	A051217.seq-31	05/12/17 20:16

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Project: Alameda
Sequence: 1708561
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1708561-ICB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1708561-CCB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1708561-CCB2	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1708561-CCB3	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1708561-CCB4	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Control Limt: +/- 10.00%

SDG: 1713059
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1708561

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1708561-ICV1	Chloride	50.000	48.811	97.6	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.585	97.5	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8760	97.5	mg/L	EPA-300.0
	Sulfate	100.00	95.223	95.2	mg/L	EPA-300.0
1708561-CCV1	Chloride	50.000	49.454	98.9	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.559	97.4	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8700	97.4	mg/L	EPA-300.0
	Sulfate	100.00	97.931	97.9	mg/L	EPA-300.0
1708561-CCV2	Chloride	50.000	49.318	98.6	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.882	98.9	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9430	98.9	mg/L	EPA-300.0
	Sulfate	100.00	96.918	96.9	mg/L	EPA-300.0
1708561-CCV3	Chloride	50.000	49.902	99.8	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.899	98.9	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9470	98.9	mg/L	EPA-300.0
	Sulfate	100.00	98.727	98.7	mg/L	EPA-300.0
1708561-CCV4	Chloride	50.000	50.686	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.373	101	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0540	101	mg/L	EPA-300.0
	Sulfate	100.00	100.71	101	mg/L	EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-300.0

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/12/17 08:00	1.00	28.00	05/12/17 12:33	1.00	28.00	
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/12/17 08:00	1.12	2.00	05/12/17 12:33	1.12	2.00	
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/12/17 08:00	1.00	28.00	05/12/17 18:46	1.00	28.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/12/17 08:00	1.00	28.00	05/12/17 13:45	1.00	28.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/12/17 08:00	1.09	2.00	05/12/17 13:45	1.09	2.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/12/17 08:00	1.00	28.00	05/12/17 14:03	1.00	28.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/12/17 08:00	1.24	2.00	05/12/17 14:03	1.24	2.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/12/17 08:00	1.00	28.00	05/12/17 14:21	1.00	28.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/12/17 08:00	1.20	2.00	05/12/17 14:21	1.20	2.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/12/17 08:00	1.00	28.00	05/12/17 14:39	1.00	28.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/12/17 08:00	1.15	2.00	05/12/17 14:39	1.15	2.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/12/17 08:00	1.00	28.00	05/12/17 14:57	1.00	28.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/12/17 08:00	1.28	2.00	05/12/17 14:57	1.28	2.00	

* Holding time not met

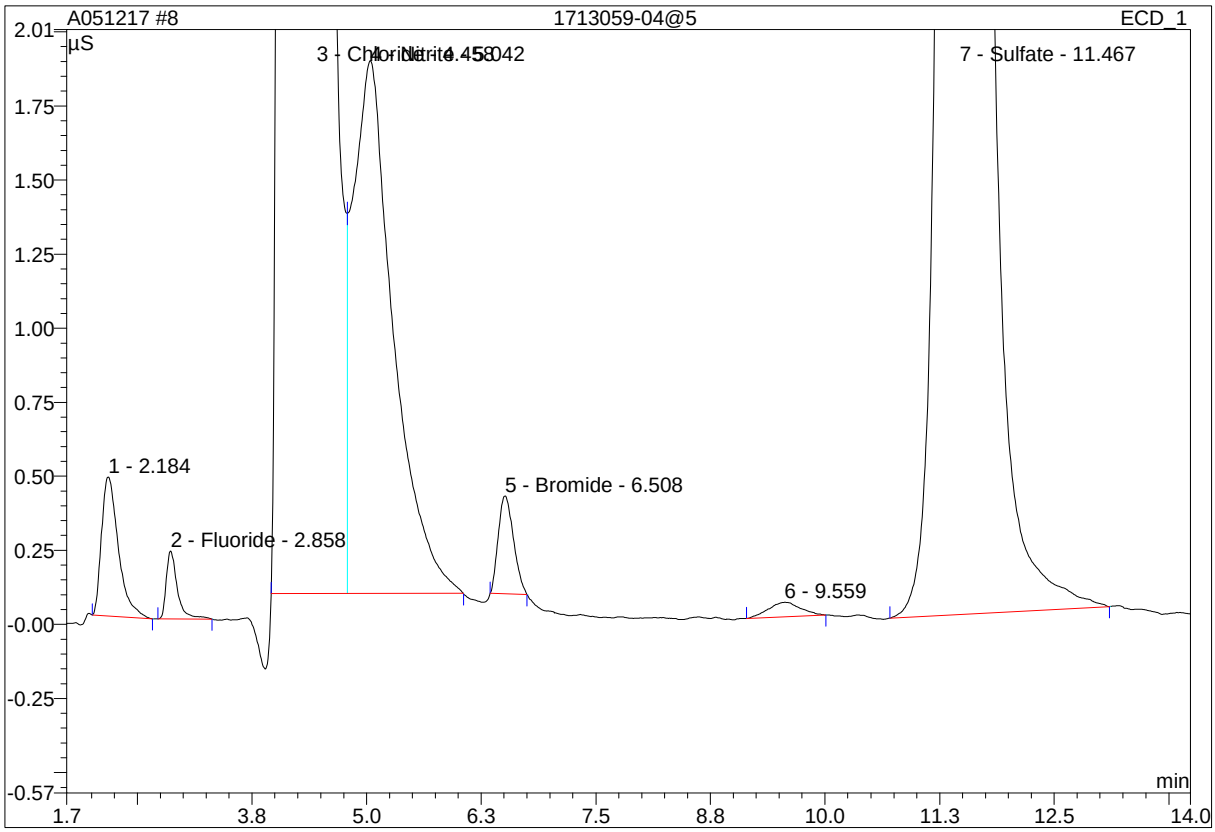
Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument IC1

Raw Data - Samples

8 1713059-04@5

Sample Name:	**1713059-04@5**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 12:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.18	n.a.	0.469	0.100	0.10	n.a.	BMB
2	2.86	Fluoride	0.229	0.032	0.03	0.146	BMB
3	4.46	Chloride	375.741	97.116	92.86	369.379	BM
4	5.04	Nitrite	1.799	0.917	0.88	6.113	M
5	6.51	Bromide	0.331	0.064	0.06	1.061	BMB
6	9.56	n.a.	0.049	0.020	0.02	n.a.	BMB
7	11.47	Sulfate	15.856	6.333	6.06	48.897	BMB
Total:			394.473	104.582	100.00	425.597	

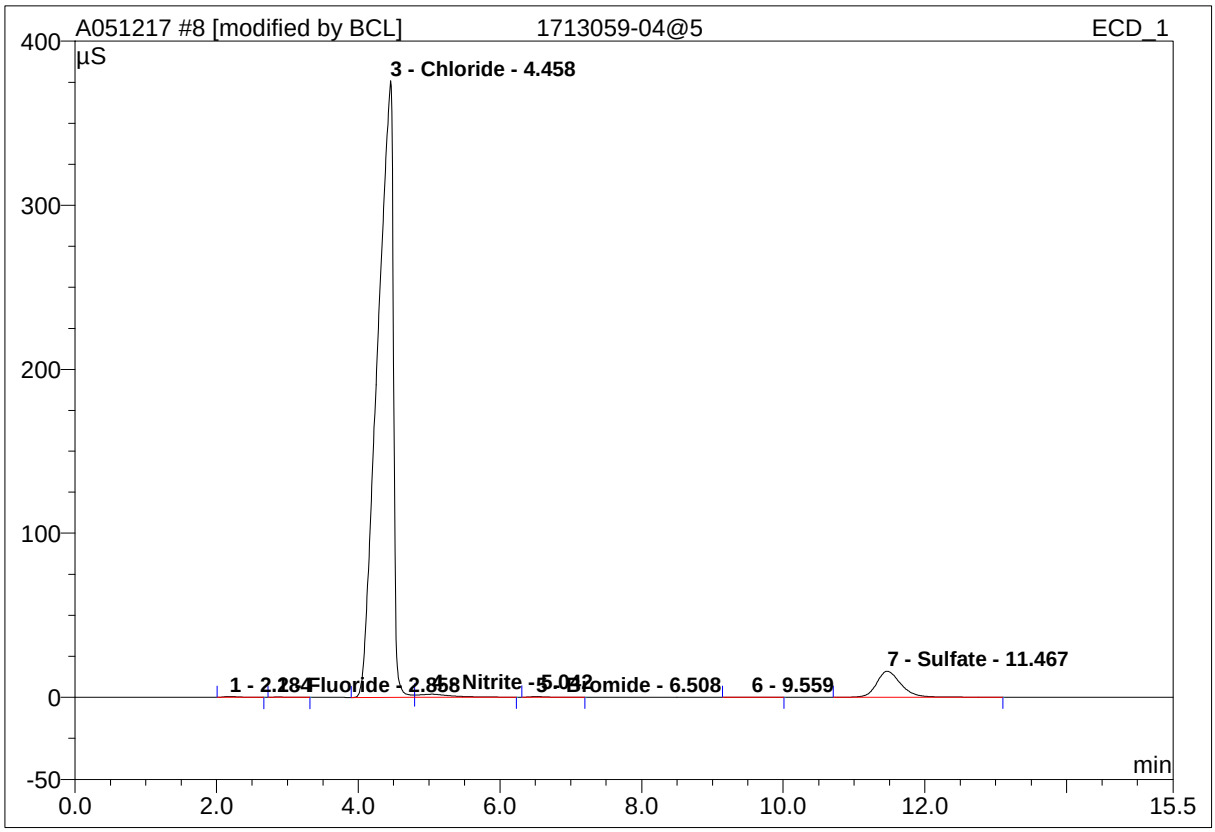
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

8 1713059-04@5

Sample Name:	**1713059-04@5**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 12:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.18	n.a.	0.469	0.100	0.10	n.a.	BMB
2	2.86	Fluoride	0.229	0.032	0.03	0.146	BMB
3	4.46	Chloride	375.876	97.247	92.80	369.766	BM *
4	5.04	Nitrite	1.857	0.981	0.94	6.511	MB*
5	6.51	Bromide	0.366	0.083	0.08	1.377	BMB*
6	9.56	n.a.	0.049	0.020	0.02	n.a.	BMB
7	11.47	Sulfate	15.856	6.333	6.04	48.897	BMB
Total:			394.702	104.796	100.00	426.698	

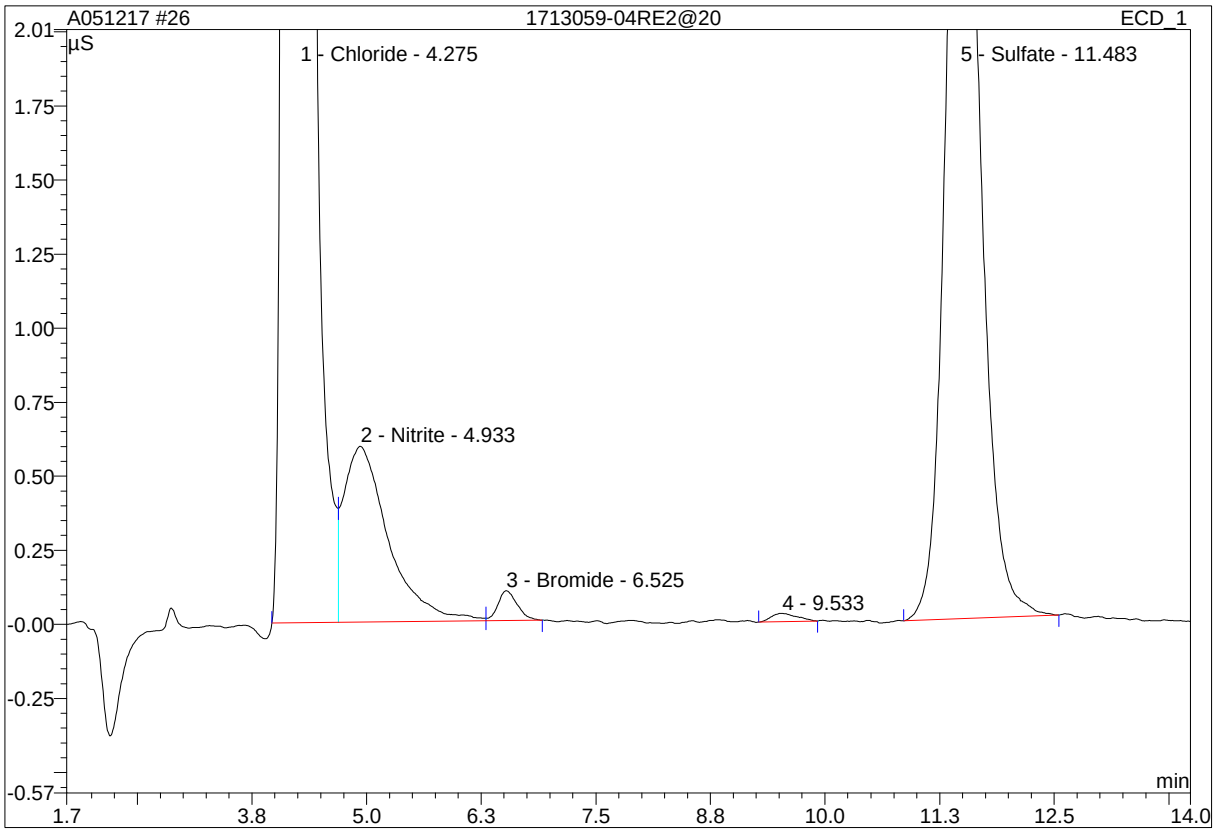
modified on: 05.12.17 14:23 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

26 1713059-04RE2@20

Sample Name:	**1713059-04RE2@20**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 18:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



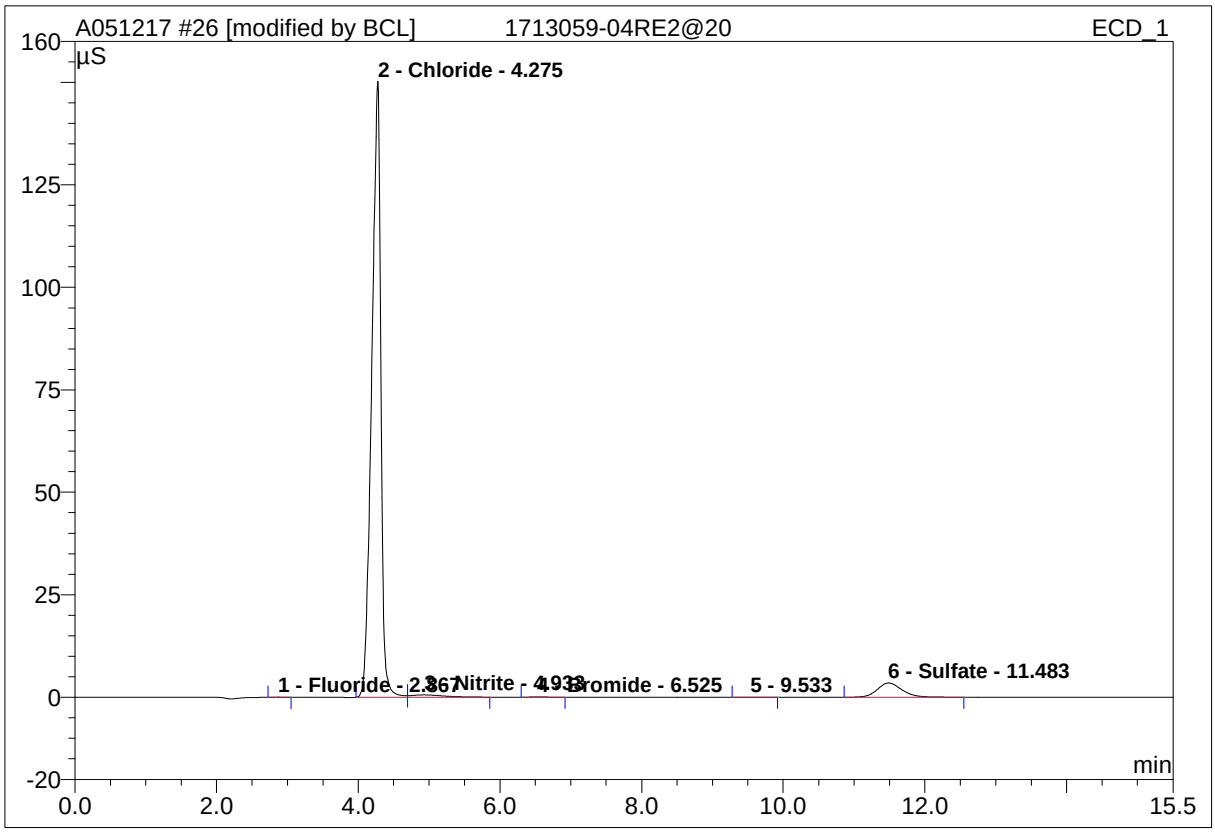
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.28	Chloride	150.210	22.323	92.64	107.116	BM
2	4.93	Nitrite	0.593	0.334	1.39	2.305	M
3	6.53	Bromide	0.101	0.025	0.10	0.412	MB
4	9.53	n.a.	0.028	0.009	0.04	n.a.	BMB
5	11.48	Sulfate	3.469	1.405	5.83	11.266	BMB
Total:			154.400	24.095	100.00	121.098	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 1713059-04RE2@20

Sample Name:	**1713059-04RE2@20**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 18:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



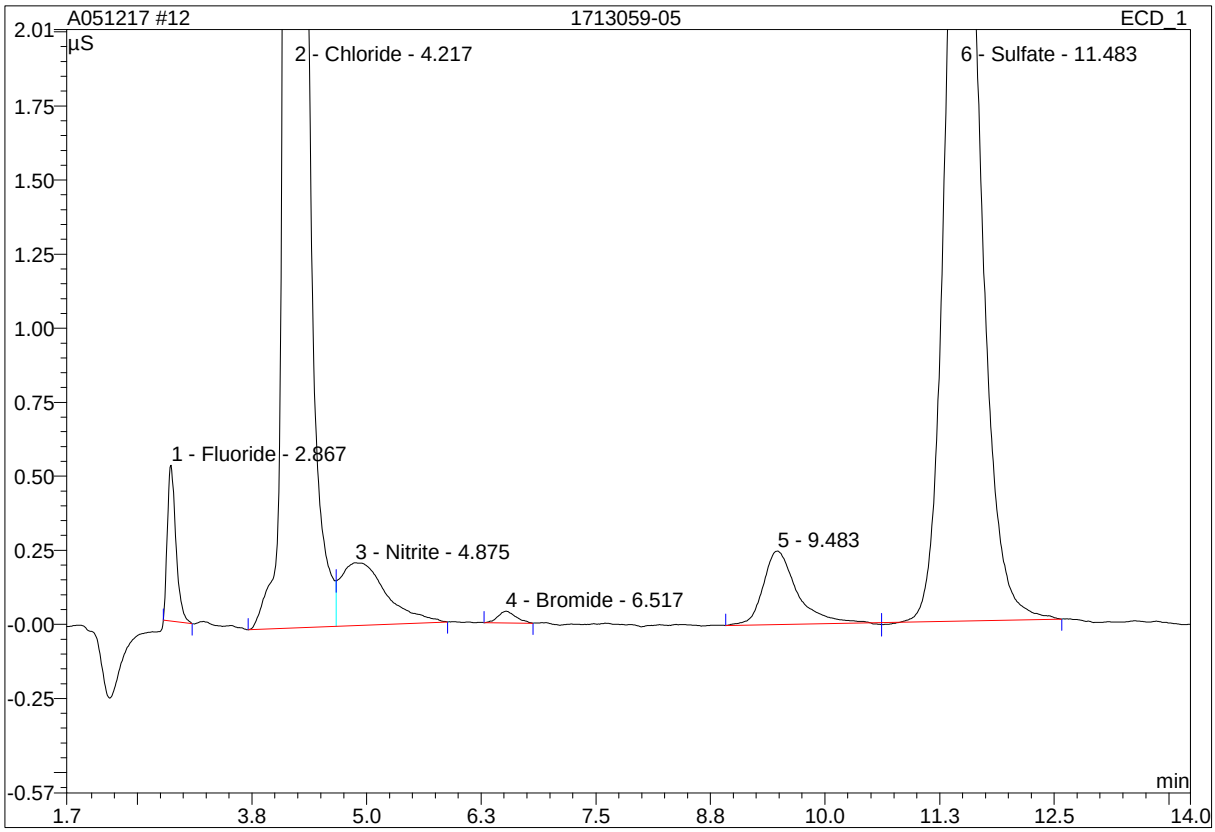
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	0.073	0.008	0.03	0.037	BMB*
2	4.28	Chloride	150.206	22.320	92.73	107.101	BM *
3	4.93	Nitrite	0.580	0.306	1.27	2.116	MB*
4	6.53	Bromide	0.095	0.022	0.09	0.369	BMB*
5	9.53	n.a.	0.028	0.009	0.04	n.a.	BMB
6	11.48	Sulfate	3.469	1.405	5.84	11.266	BMB
Total:			154.450	24.070	100.00	120.889	

modified on: 05.12.17 20:00 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

12 1713059-05

Sample Name:	**1713059-05**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 13:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



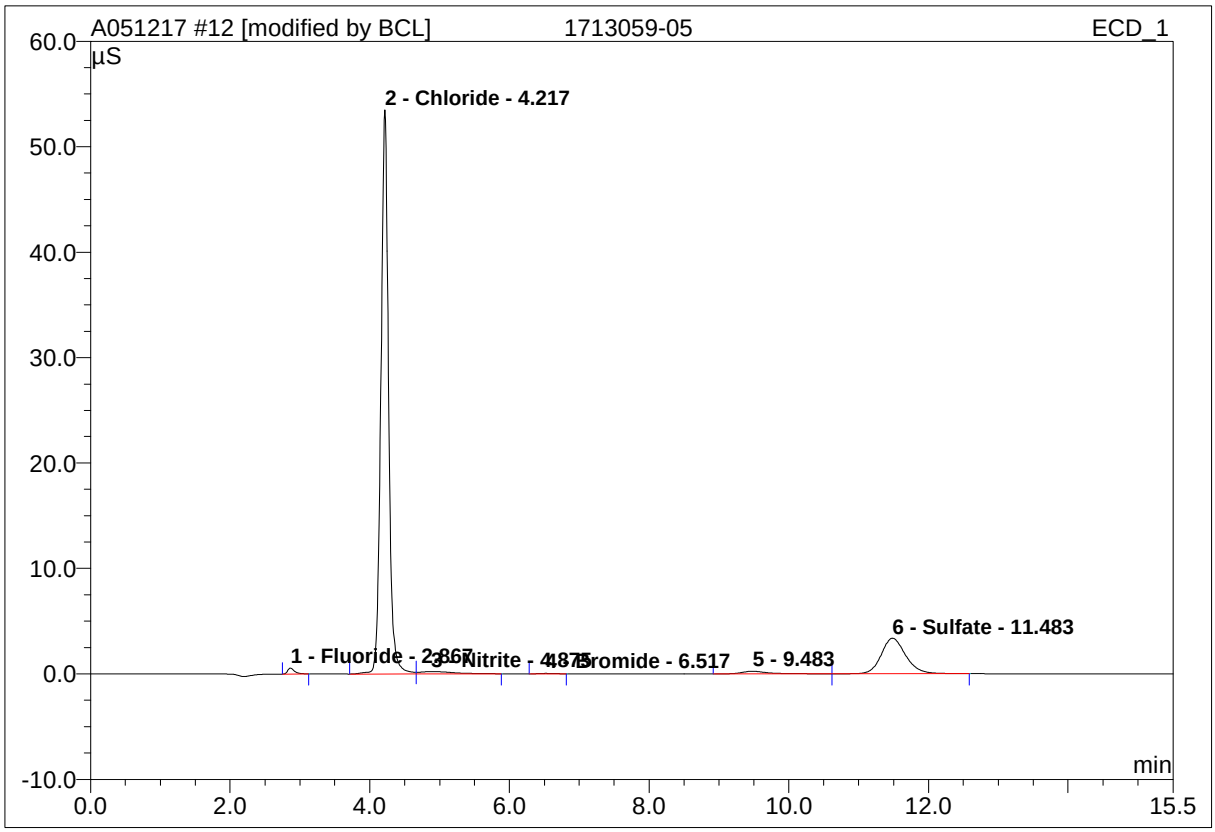
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	0.526	0.057	0.67	0.257	BMB
2	4.22	Chloride	53.506	6.794	80.35	35.198	BM
3	4.88	Nitrite	0.211	0.122	1.44	0.847	MB
4	6.52	Bromide	0.040	0.009	0.11	0.149	BMB
5	9.48	n.a.	0.247	0.105	1.24	n.a.	BM
6	11.48	Sulfate	3.370	1.368	16.19	10.981	MB
Total:			57.900	8.455	100.00	47.432	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

12 1713059-05

Sample Name:	**1713059-05**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 13:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



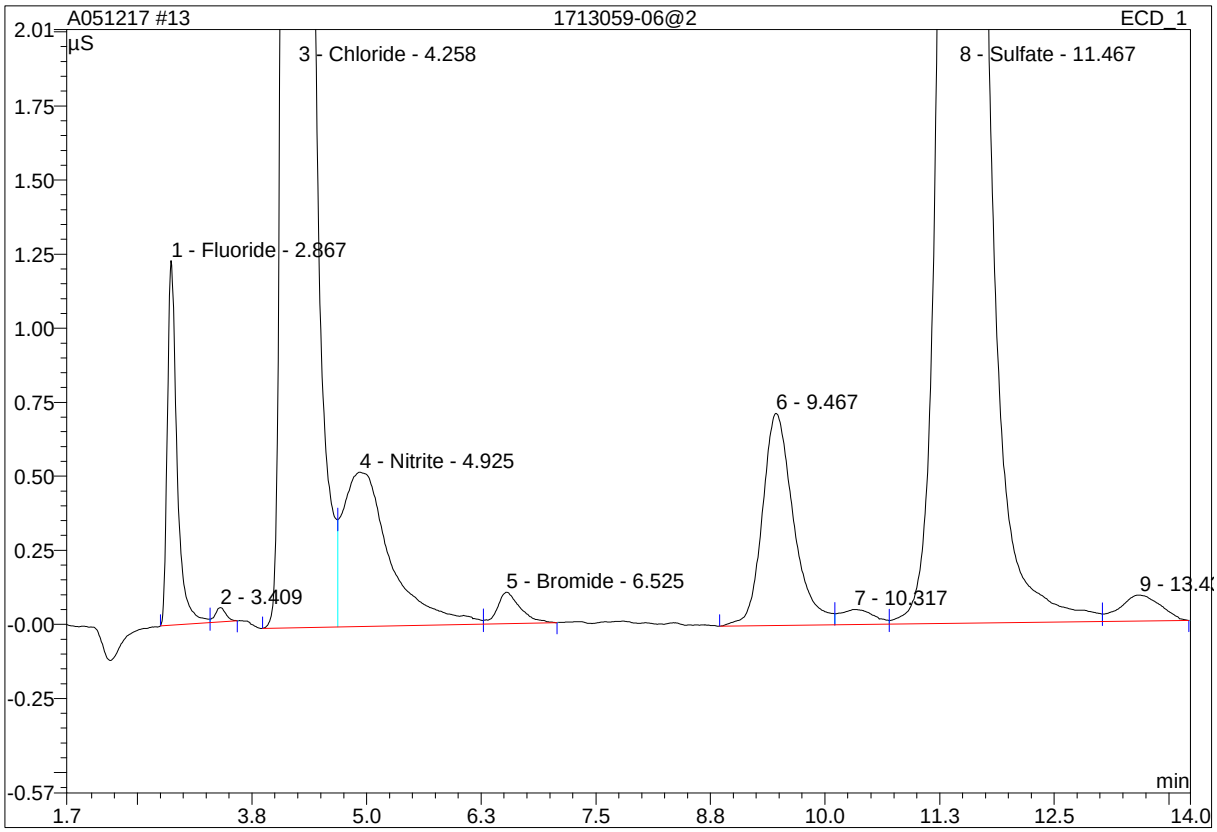
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	0.553	0.063	0.75	0.285	BMB*
2	4.22	Chloride	53.498	6.787	80.36	35.162	BM *
3	4.88	Nitrite	0.199	0.113	1.34	0.783	MB*
4	6.52	Bromide	0.040	0.009	0.11	0.149	BMB
5	9.48	n.a.	0.247	0.105	1.24	n.a.	BM
6	11.48	Sulfate	3.370	1.368	16.20	10.981	MB
Total:			57.906	8.445	100.00	47.361	

modified on: 05.12.17 14:24 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

13 1713059-06@2

Sample Name:	**1713059-06@2**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.231	0.151	0.63	0.677	BM
2	3.41	n.a.	0.048	0.007	0.03	n.a.	MB
3	4.26	Chloride	134.673	19.438	80.44	94.474	BM
4	4.93	Nitrite	0.521	0.314	1.30	2.170	M
5	6.53	Bromide	0.106	0.031	0.13	0.510	MB
6	9.47	n.a.	0.717	0.282	1.17	n.a.	BM
7	10.32	n.a.	0.051	0.021	0.09	n.a.	M
8	11.47	Sulfate	9.526	3.877	16.04	30.371	M
9	13.43	n.a.	0.088	0.045	0.18	n.a.	MB
Total:			146.959	24.165	100.00	128.202	

modified on: n.a. By: OLH/EMW

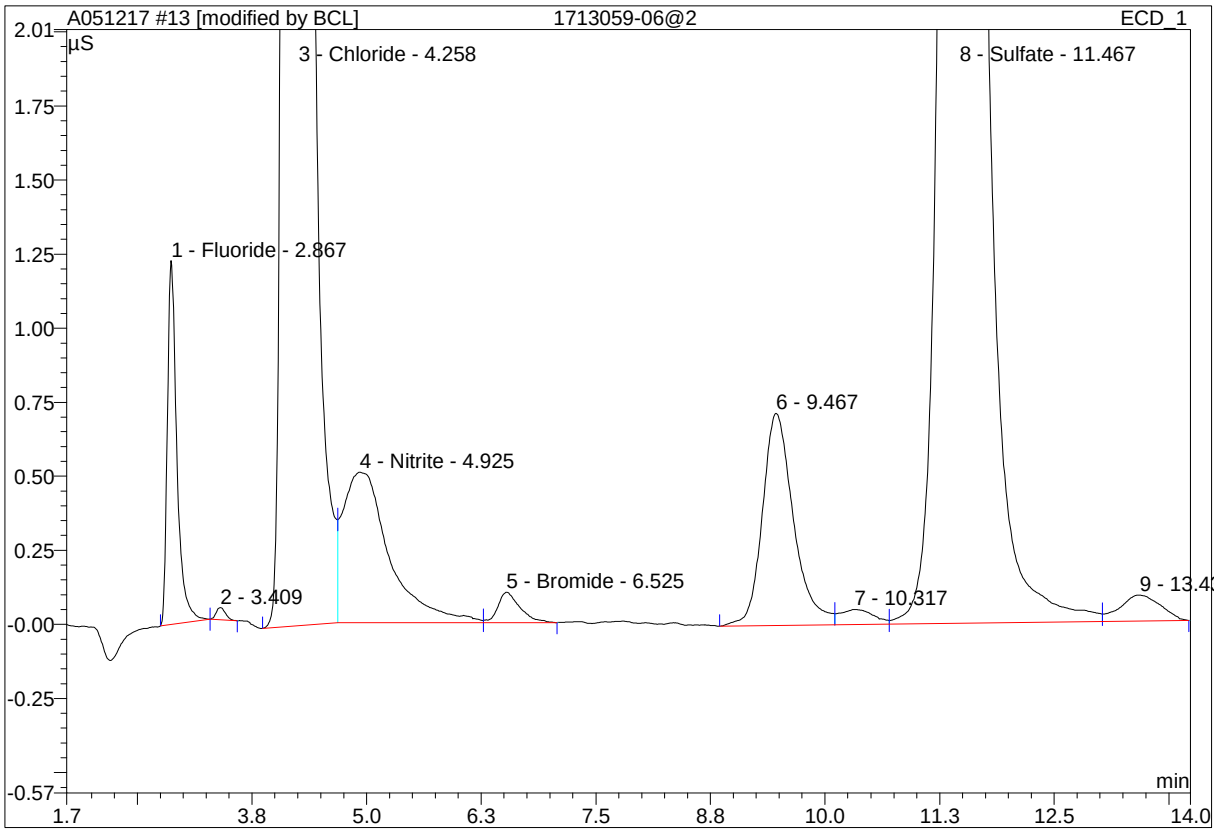
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.

Chromeleon (c) Dionex 2000
close-up1/Integration Version 6.40+SP1, Build 711 (Demo-Installation)

M = Main
R = Rider
BMB = This peak type is for resolved peaks.

13 1713059-06@2

Sample Name:	**1713059-06@2**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.228	0.148	0.61	0.663	BMb*
2	3.41	n.a.	0.041	0.005	0.02	n.a.	bMB*
3	4.26	Chloride	134.666	19.432	80.51	94.448	BM *
4	4.93	Nitrite	0.507	0.299	1.24	2.065	M *
5	6.53	Bromide	0.103	0.029	0.12	0.478	MB*
6	9.47	n.a.	0.717	0.282	1.17	n.a.	BM
7	10.32	n.a.	0.051	0.021	0.09	n.a.	M
8	11.47	Sulfate	9.526	3.877	16.06	30.371	M
9	13.43	n.a.	0.088	0.045	0.19	n.a.	MB
Total:			146.926	24.137	100.00	128.025	

modified on: 05.12.17 14:24 By: OLH/EMW

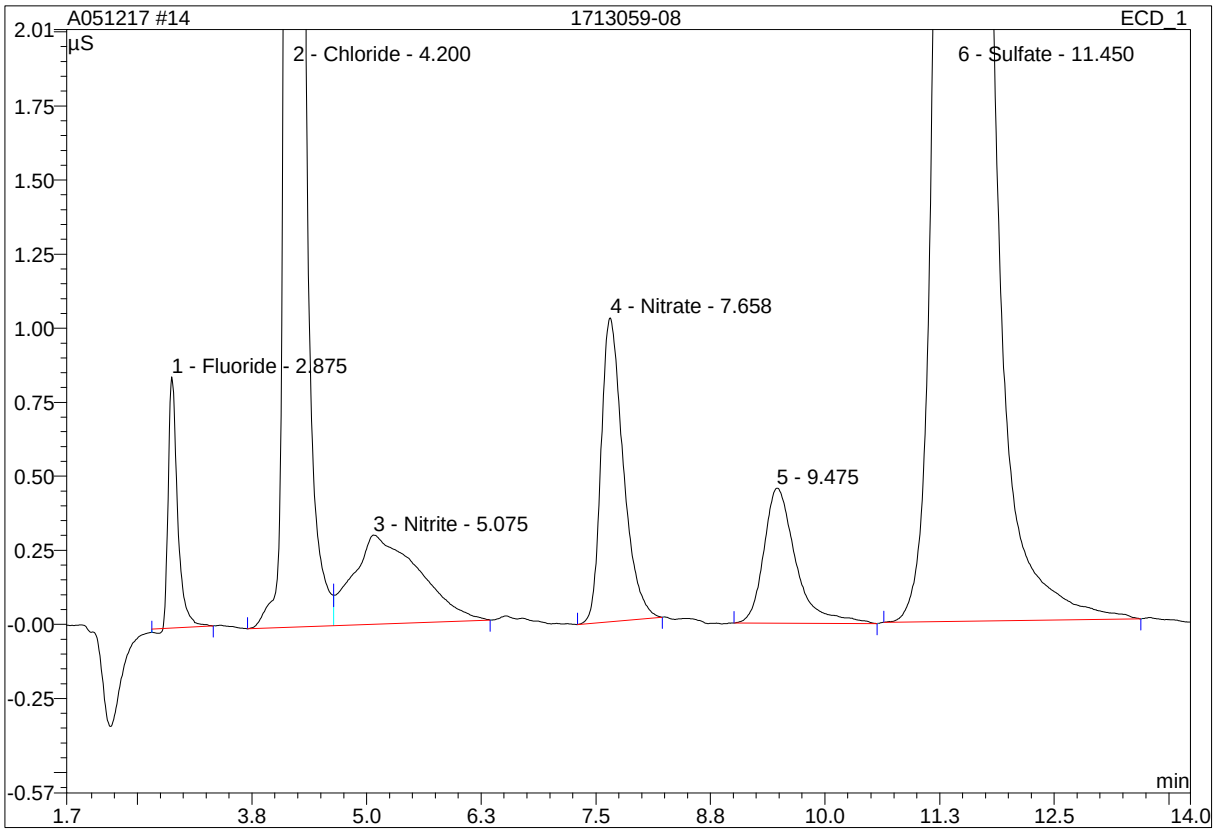
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.

Chromeleon (c) Dionex 2000
close-up1/Integration
Version 6.40+SP1, Build 711 (Demo-Installation)

M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 1713059-08

Sample Name:	**1713059-08**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



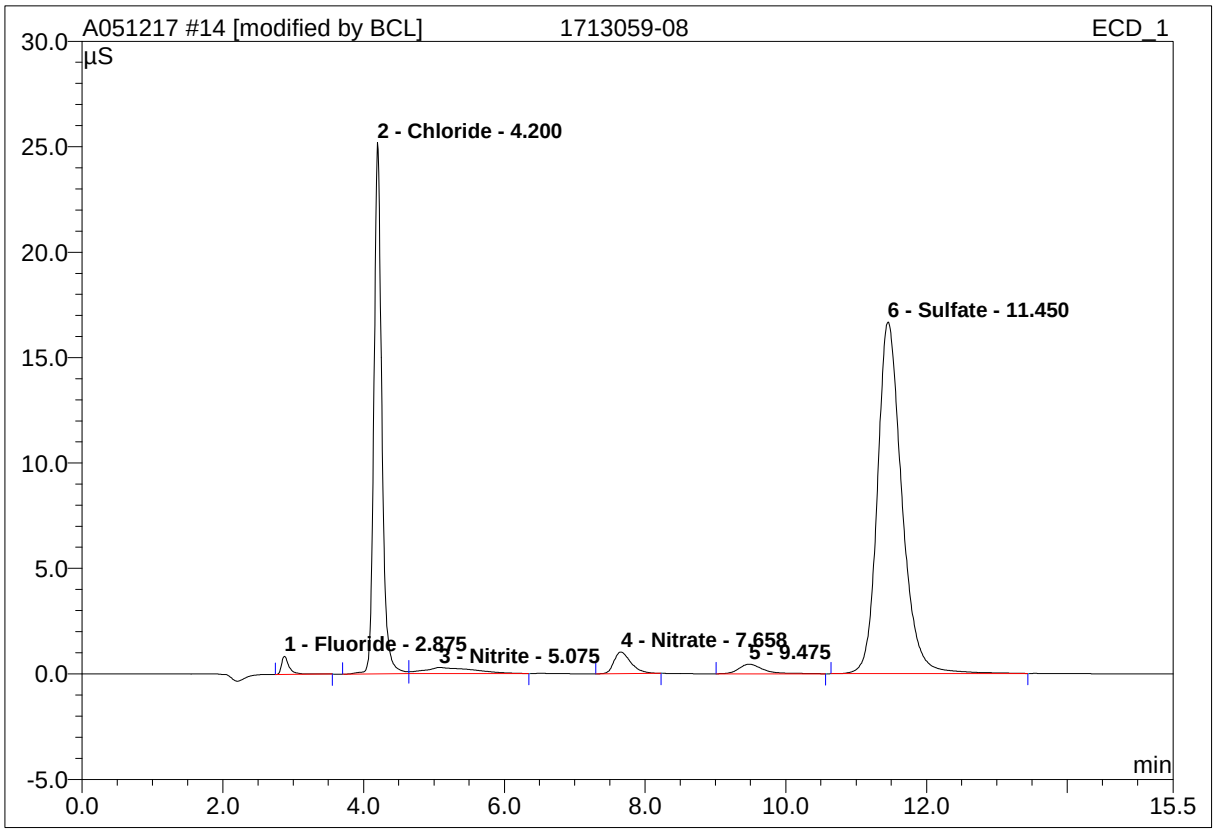
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.848	0.099	0.92	0.445	MB
2	4.20	Chloride	25.205	3.289	30.46	17.438	BM
3	5.08	Nitrite	0.301	0.250	2.31	1.731	MB
4	7.66	Nitrate	1.026	0.288	2.66	0.816	BMB
5	9.48	n.a.	0.455	0.183	1.70	n.a.	BMB
6	11.45	Sulfate	16.681	6.690	61.95	51.547	BMB
Total:			44.515	10.798	100.00	71.976	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 1713059-08

Sample Name:	**1713059-08**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



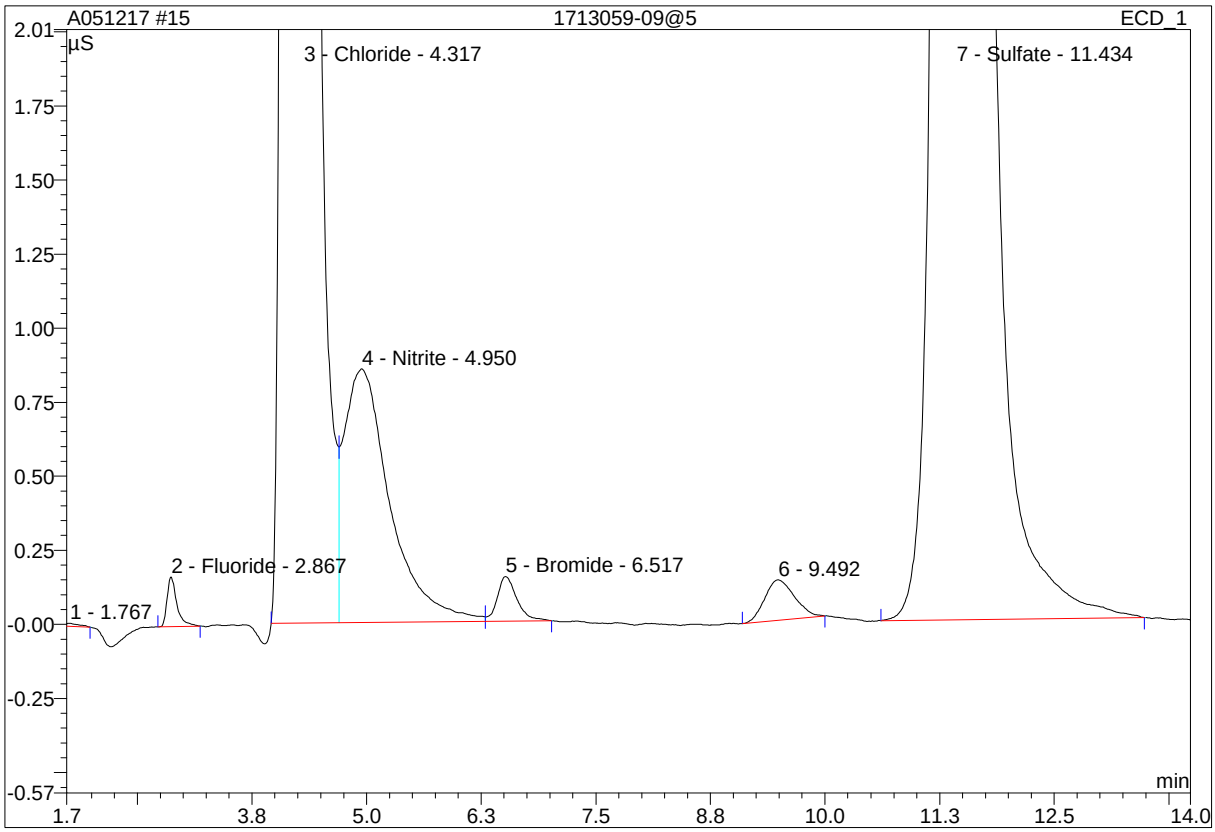
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.861	0.109	1.01	0.488	BMB*
2	4.20	Chloride	25.195	3.280	30.42	17.391	BM *
3	5.08	Nitrite	0.286	0.233	2.17	1.619	MB*
4	7.66	Nitrate	1.026	0.288	2.67	0.816	BMB
5	9.48	n.a.	0.455	0.183	1.70	n.a.	BMB
6	11.45	Sulfate	16.681	6.690	62.04	51.547	BMB
Total:			44.504	10.782	100.00	71.861	

modified on: 05.12.17 17:51 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

15 1713059-09@5

Sample Name:	**1713059-09@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	1.77	n.a.	0.011	0.003	0.01	n.a.	BMB
2	2.87	Fluoride	0.168	0.021	0.04	0.095	BMB
3	4.32	Chloride	215.035	36.867	78.82	166.912	BM
4	4.95	Nitrite	0.856	0.493	1.05	3.372	M
5	6.52	Bromide	0.150	0.037	0.08	0.622	MB
6	9.49	n.a.	0.136	0.051	0.11	n.a.	BMB
7	11.43	Sulfate	23.294	9.300	19.88	70.704	BMB
Total:			239.651	46.773	100.00	241.705	

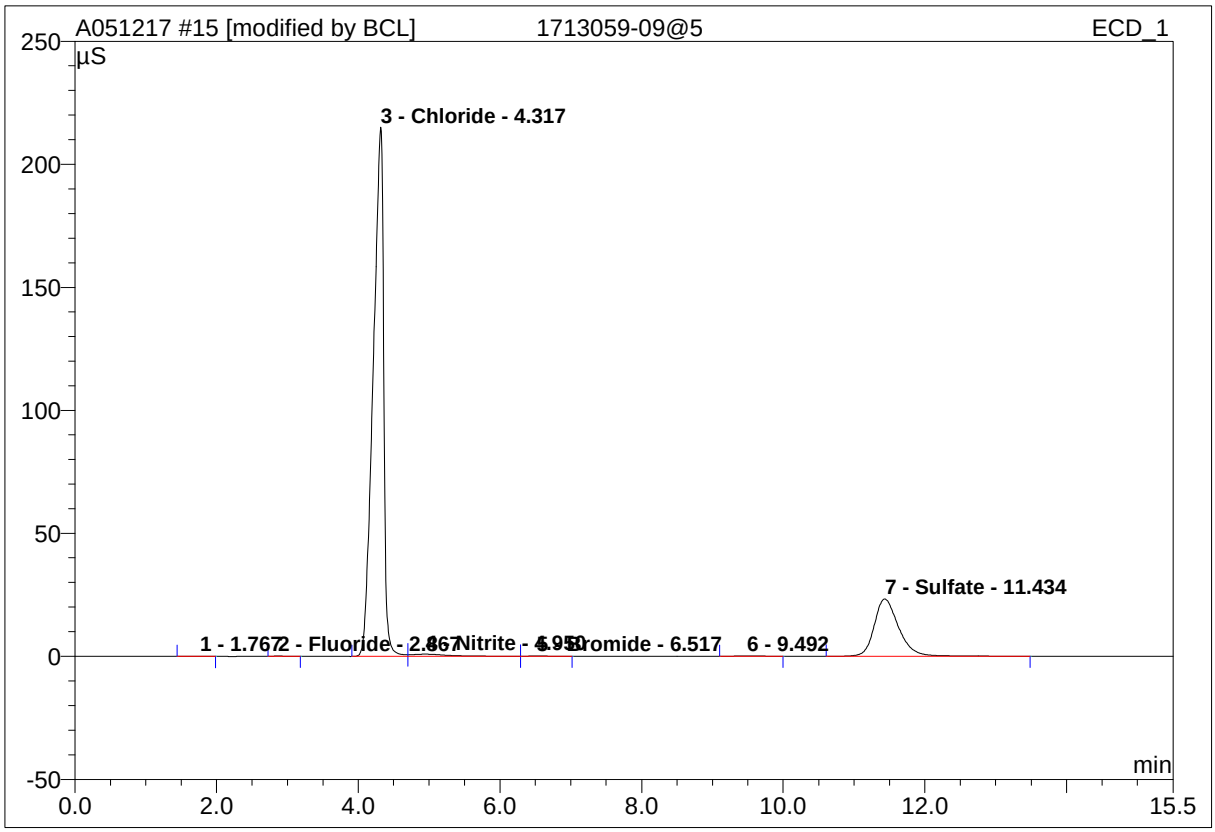
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

15 1713059-09@5

Sample Name:	**1713059-09@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	1.77	n.a.	0.011	0.003	0.01	n.a.	BMB
2	2.87	Fluoride	0.168	0.021	0.04	0.095	BMB
3	4.32	Chloride	215.064	36.889	78.84	166.996	BM *
4	4.95	Nitrite	0.851	0.486	1.04	3.329	M *
5	6.52	Bromide	0.149	0.037	0.08	0.610	MB*
6	9.49	n.a.	0.136	0.051	0.11	n.a.	BMB
7	11.43	Sulfate	23.294	9.300	19.88	70.704	BMB
Total:			239.673	46.787	100.00	241.734	

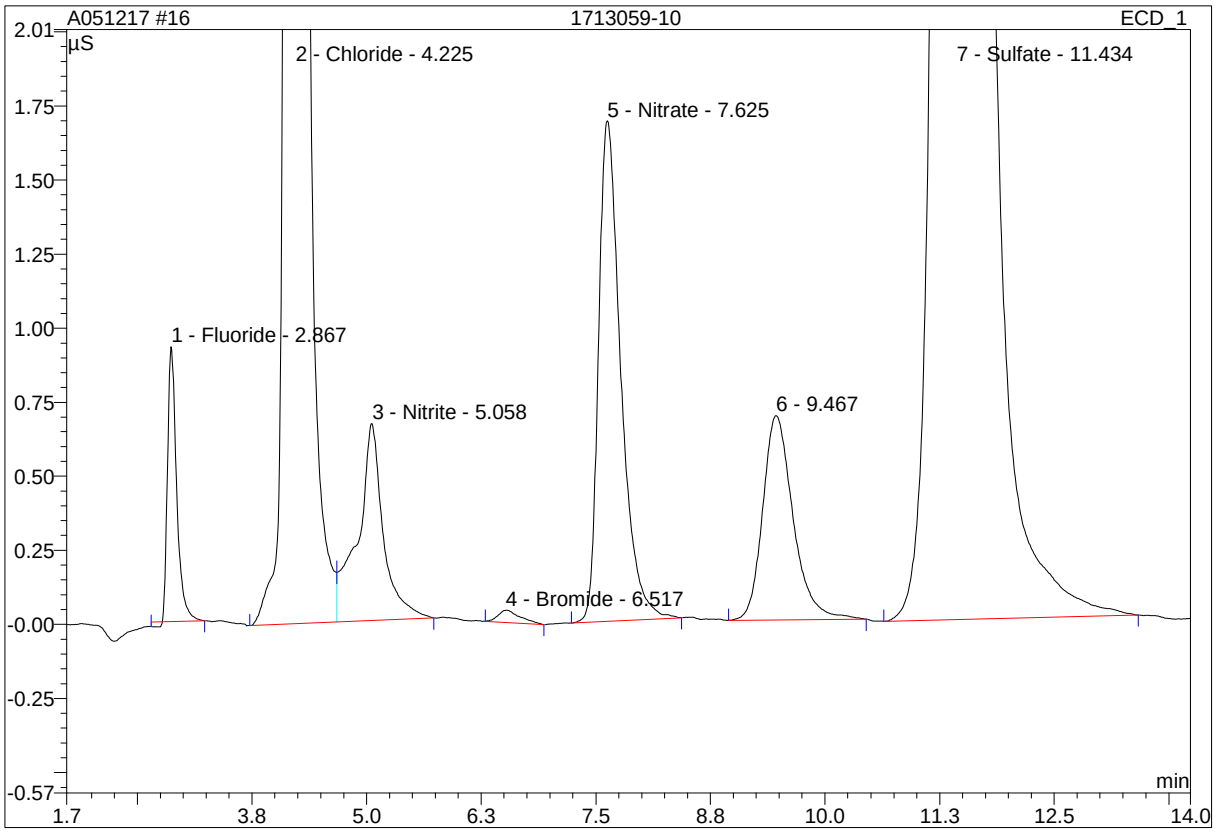
modified on: 05.12.17 17:51 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

16 1713059-10

Sample Name:	**1713059-10**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	0.928	0.106	0.57	0.475	MB
2	4.23	Chloride	62.344	7.963	43.11	40.981	BM
3	5.06	Nitrite	0.666	0.216	1.17	1.496	MB
4	6.52	Bromide	0.041	0.011	0.06	0.192	BMB
5	7.63	Nitrate	1.690	0.476	2.58	1.337	BMB
6	9.47	n.a.	0.690	0.266	1.44	n.a.	BMB
7	11.43	Sulfate	23.669	9.435	51.08	71.683	BMB
Total:			90.029	18.473	100.00	116.163	

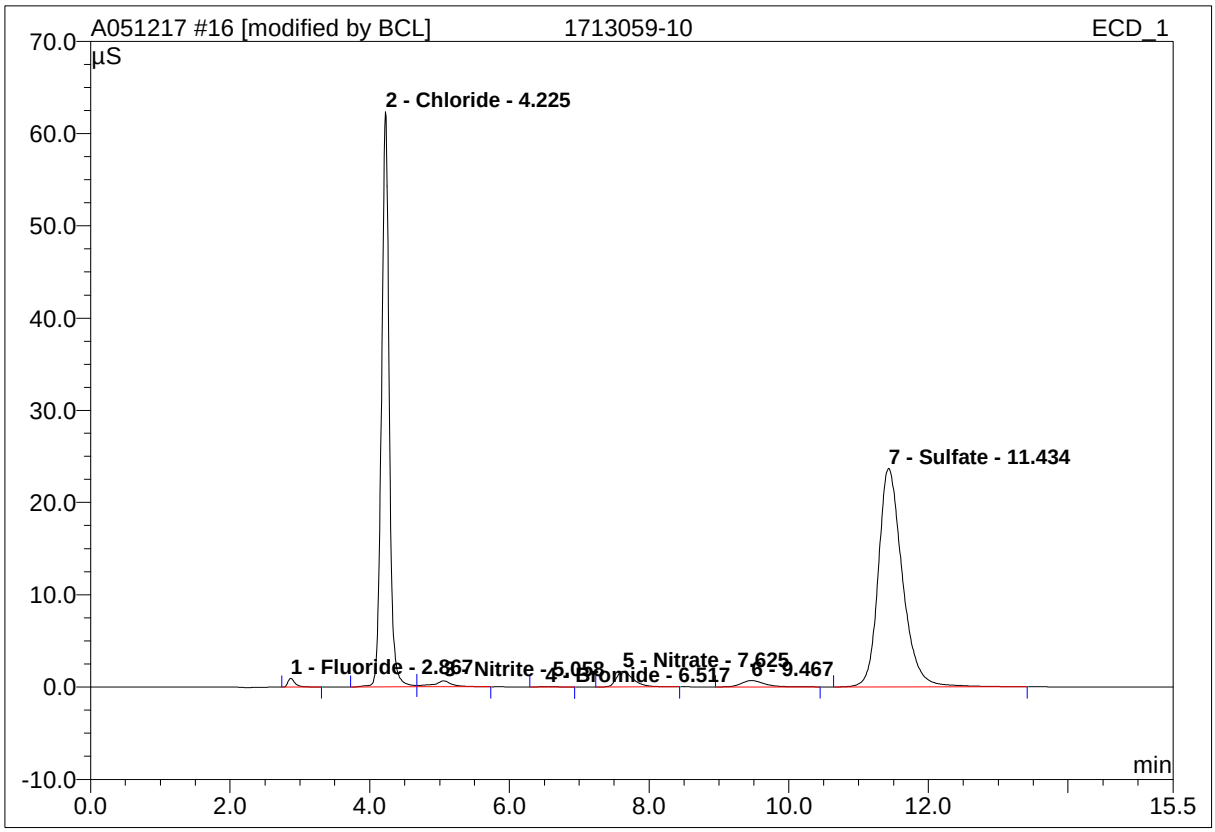
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

16 1713059-10

Sample Name:	**1713059-10**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 14:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	0.943	0.113	0.61	0.507	BMB*
2	4.23	Chloride	62.336	7.957	43.09	40.948	BM *
3	5.06	Nitrite	0.657	0.208	1.13	1.445	MB*
4	6.52	Bromide	0.041	0.011	0.06	0.192	BMB
5	7.63	Nitrate	1.690	0.476	2.58	1.337	BMB
6	9.47	n.a.	0.690	0.266	1.44	n.a.	BMB
7	11.43	Sulfate	23.669	9.435	51.10	71.683	BMB
Total:			90.027	18.466	100.00	116.112	

modified on: 05.12.17 17:52 By: OLH/EMW

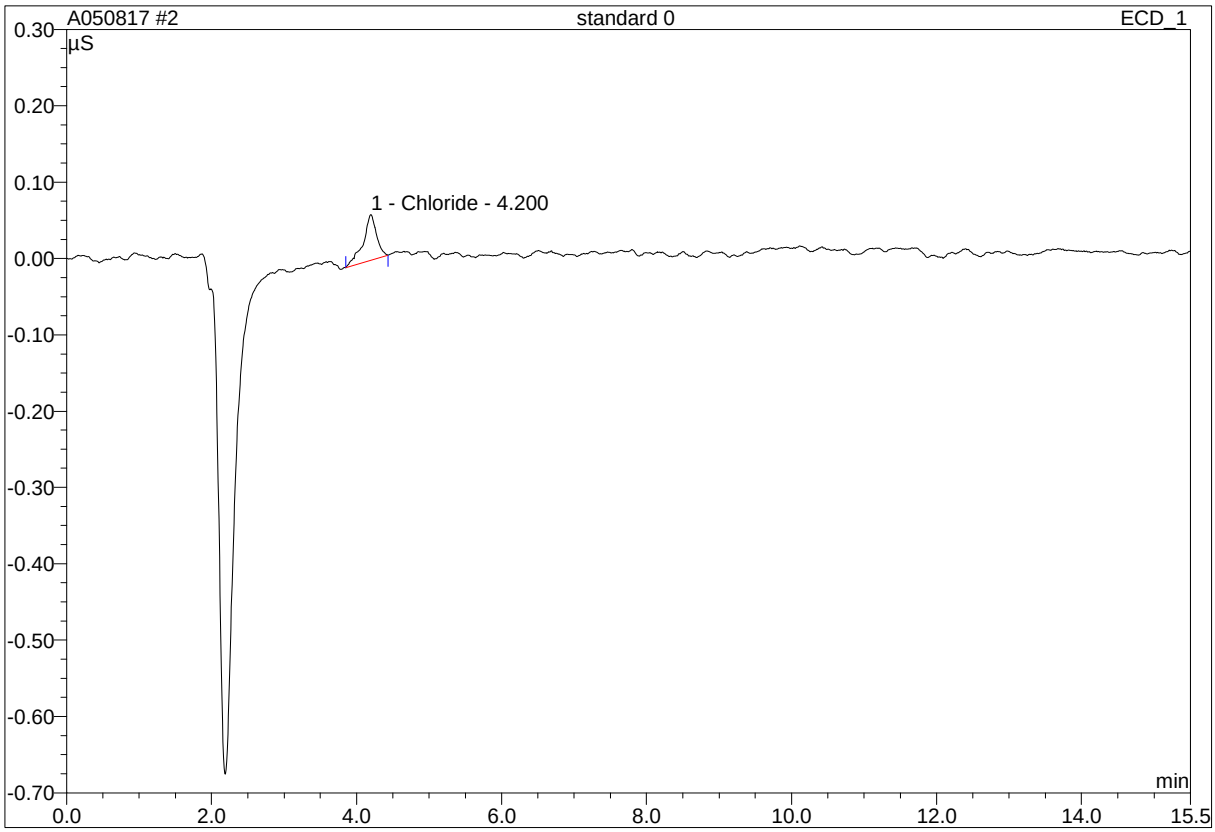
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

Raw Data - Calibration Standards

2 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 12:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



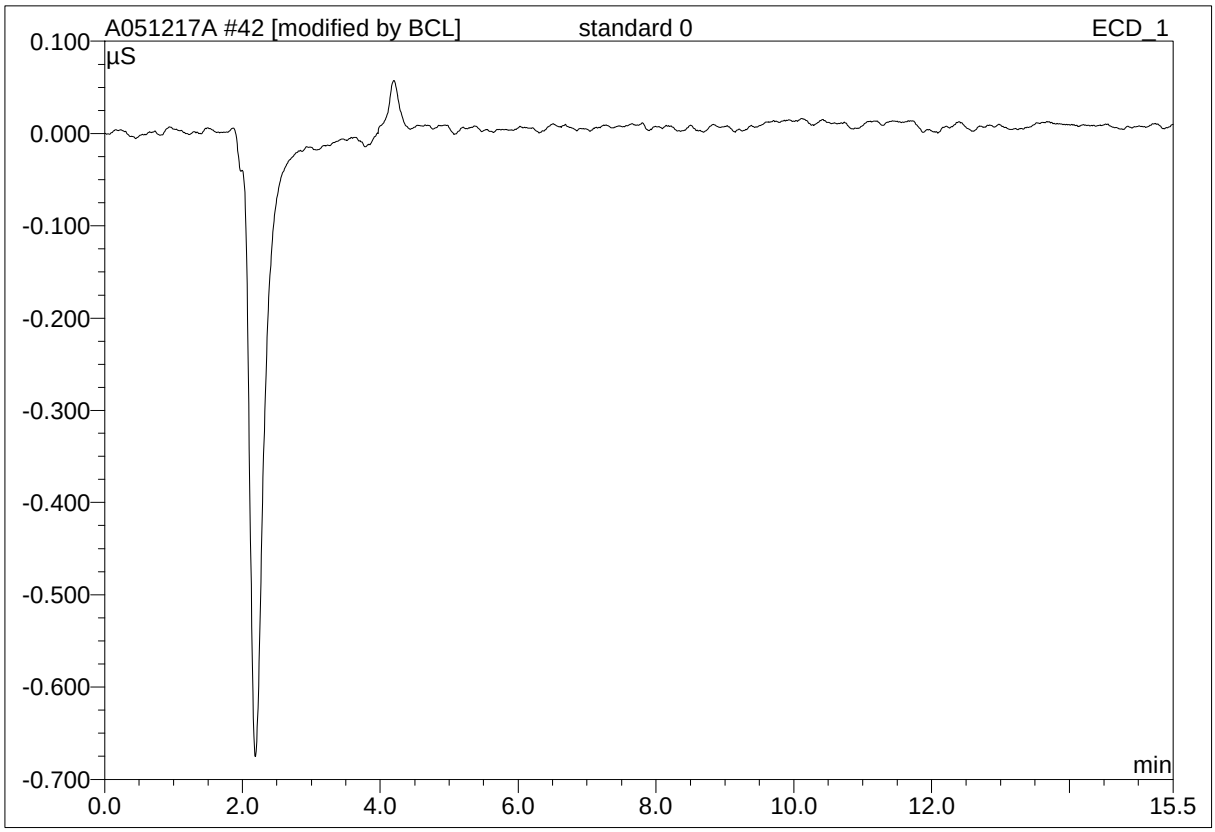
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.20	Chloride	0.060	0.013	100.00	0.155	BMB
Total:			0.060	0.013	100.00	0.155	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

42 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 12:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



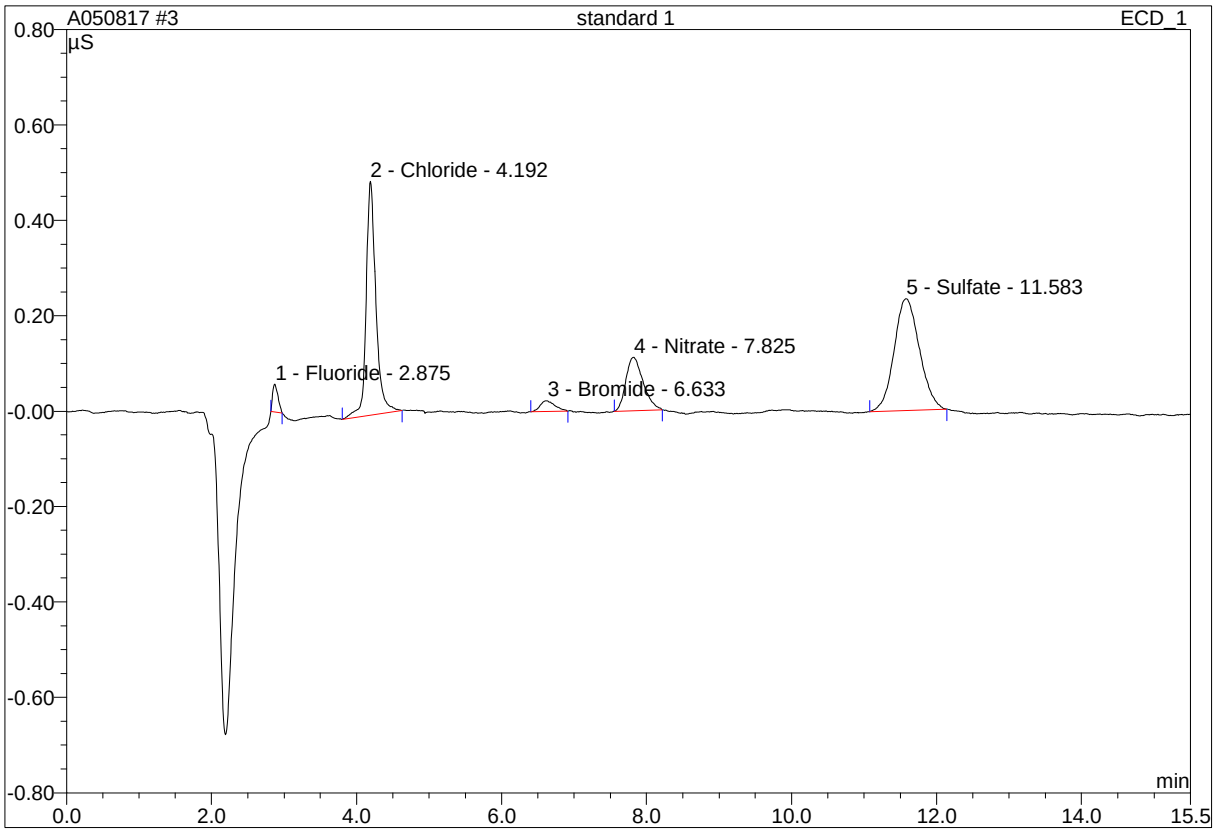
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 05.08.17 14:42 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 12:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



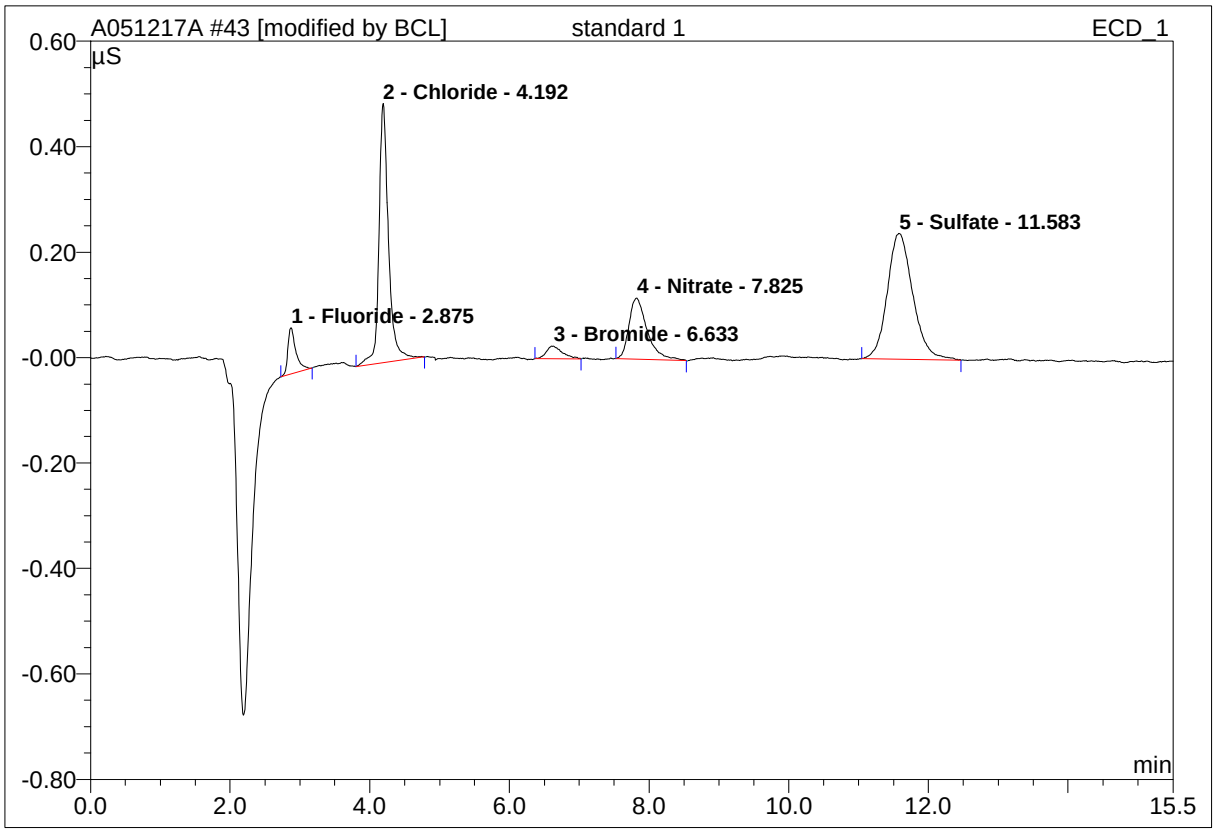
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.058	0.005	2.37	0.044	BM
2	4.19	Chloride	0.490	0.076	35.92	0.549	BMB
3	6.63	Bromide	0.022	0.005	2.53	0.101	BMB
4	7.83	Nitrate	0.112	0.031	14.51	0.105	BMB
5	11.58	Sulfate	0.234	0.095	44.68	0.963	BMB
Total:			0.917	0.212	100.00	1.762	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

43 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 12:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



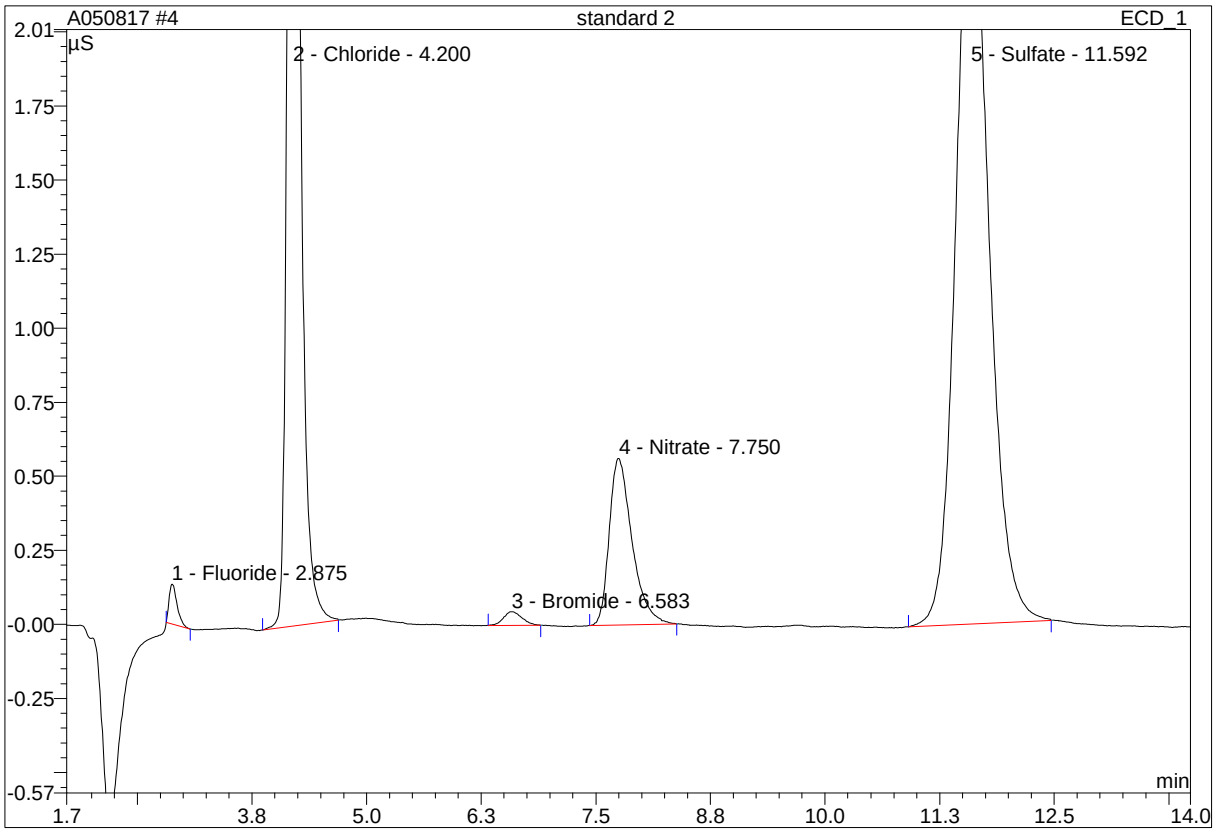
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.087	0.012	5.02	0.054	BMB*
2	4.19	Chloride	0.492	0.078	33.46	0.552	BMB*
3	6.63	Bromide	0.024	0.006	2.78	0.108	BMB*
4	7.83	Nitrate	0.116	0.035	15.10	0.107	BMB*
5	11.58	Sulfate	0.239	0.101	43.64	0.990	BMB*
Total:			0.957	0.232	100.00	1.810	

modified on: 05.08.17 14:42 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

4 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 12:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



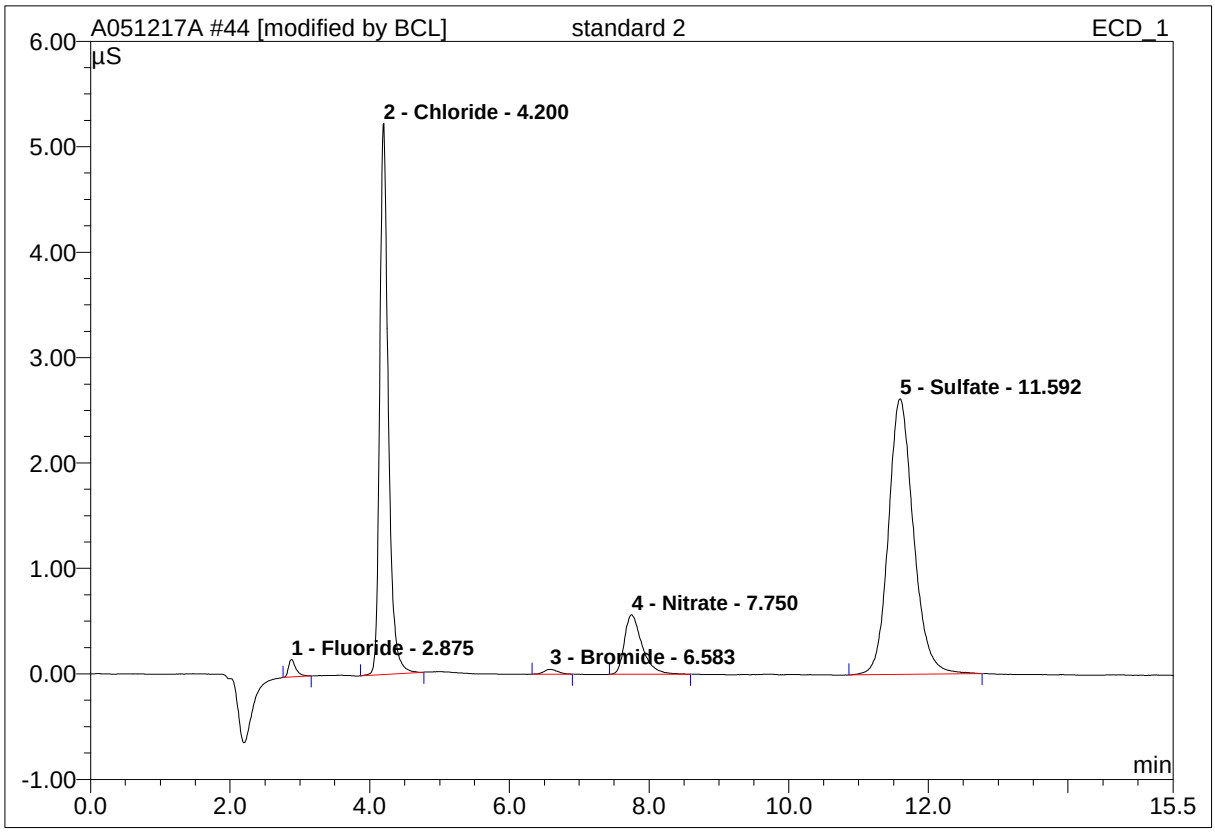
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.134	0.014	0.68	0.071	BMB
2	4.20	Chloride	5.227	0.744	37.14	4.109	BMB
3	6.58	Bromide	0.046	0.011	0.54	0.183	BMB
4	7.75	Nitrate	0.562	0.162	8.09	0.466	BMB
5	11.59	Sulfate	2.609	1.073	53.54	8.671	BMB
Total:			8.578	2.004	100.00	13.500	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

44 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 12:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.166	0.020	1.00	0.092	BMB*
2	4.20	Chloride	5.228	0.745	36.77	4.112	BMB*
3	6.58	Bromide	0.046	0.011	0.54	0.183	BMB
4	7.75	Nitrate	0.563	0.165	8.13	0.472	BMB*
5	11.59	Sulfate	2.614	1.085	53.57	8.760	BMB*
Total:			8.617	2.026	100.00	13.618	

modified on: 05.08.17 14:43 By: OLH/EMW

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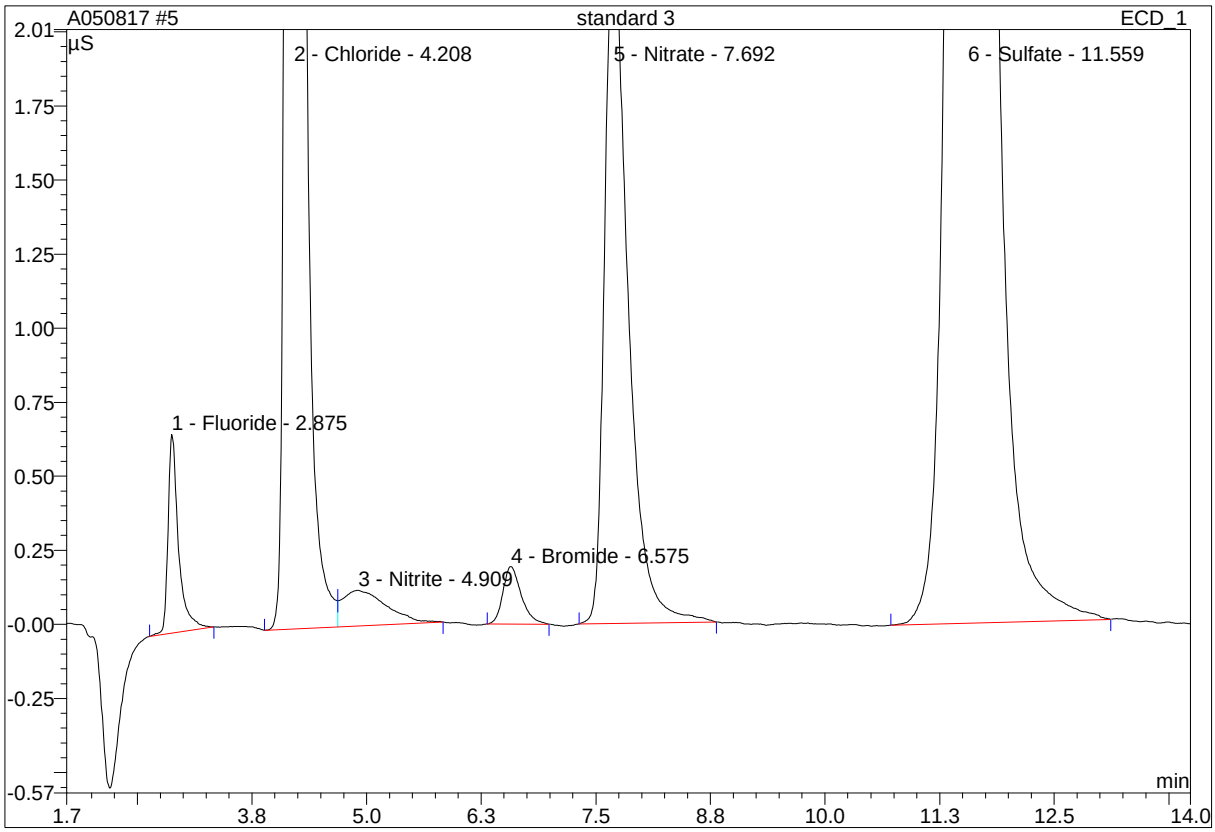
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

5 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 13:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.671	0.089	1.00	0.401	BMB
2	4.21	Chloride	24.951	3.370	37.68	17.850	BM
3	4.91	Nitrite	0.121	0.067	0.75	0.424	MB
4	6.58	Bromide	0.194	0.045	0.50	0.758	BMB
5	7.69	Nitrate	2.318	0.684	7.65	1.907	BMB
6	11.56	Sulfate	11.527	4.689	52.42	36.562	BMB
Total:			39.781	8.944	100.00	57.902	

modified on: n.a. By: OLH/EMW

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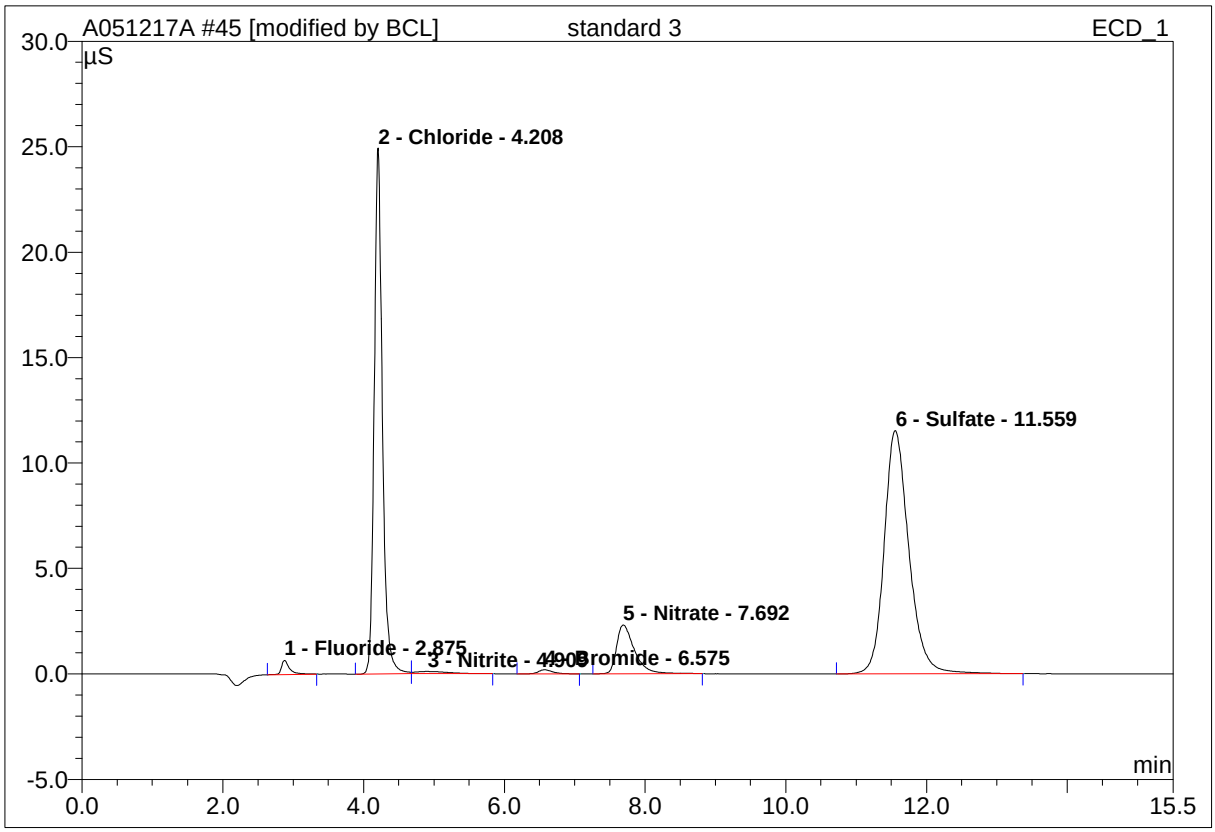
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

45 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 13:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.671	0.089	1.00	0.401	BMB
2	4.21	Chloride	24.944	3.364	37.60	17.824	BM *
3	4.91	Nitrite	0.108	0.058	0.64	0.394	MB*
4	6.58	Bromide	0.197	0.048	0.53	0.793	BMB*
5	7.69	Nitrate	2.321	0.687	7.68	1.913	BMB*
6	11.56	Sulfate	11.530	4.700	52.54	36.627	BMB*
Total:			39.771	8.945	100.00	57.952	

modified on: 05.08.17 14:43 By: OLH/EMW

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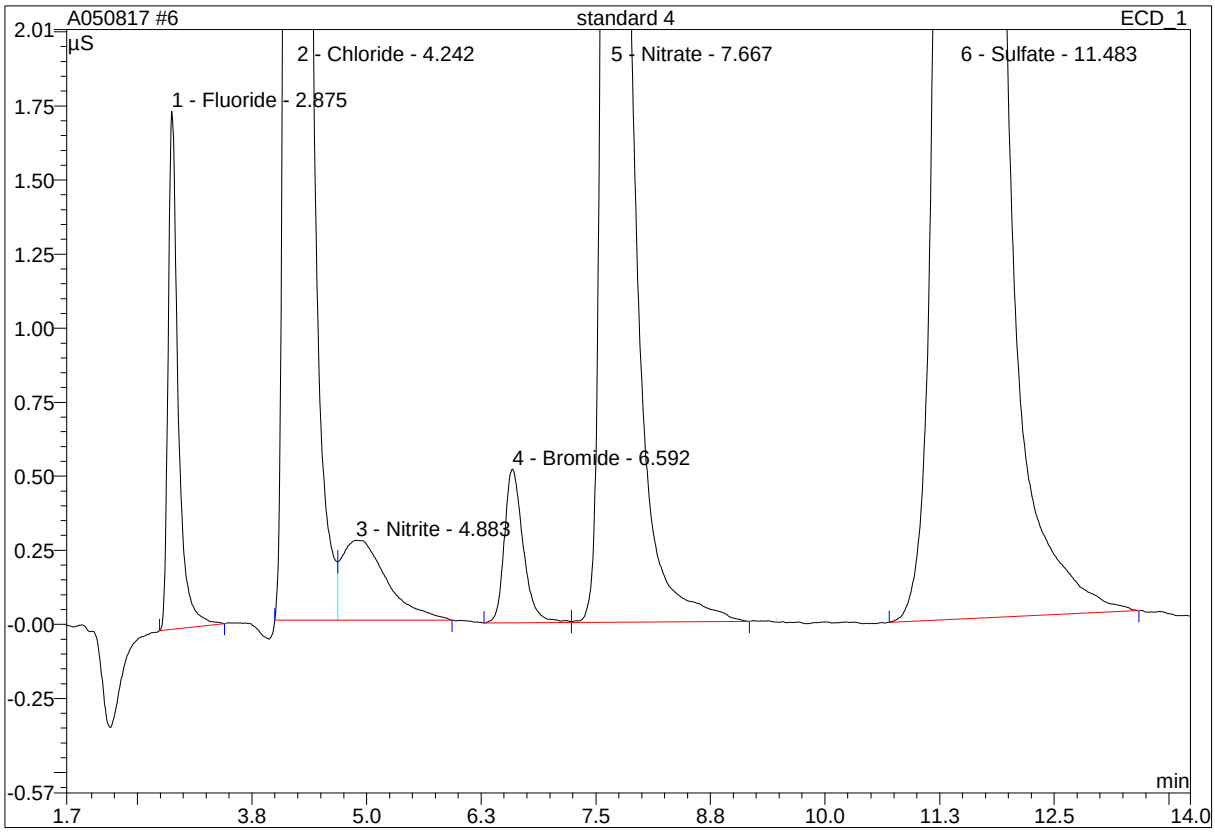
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 13:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



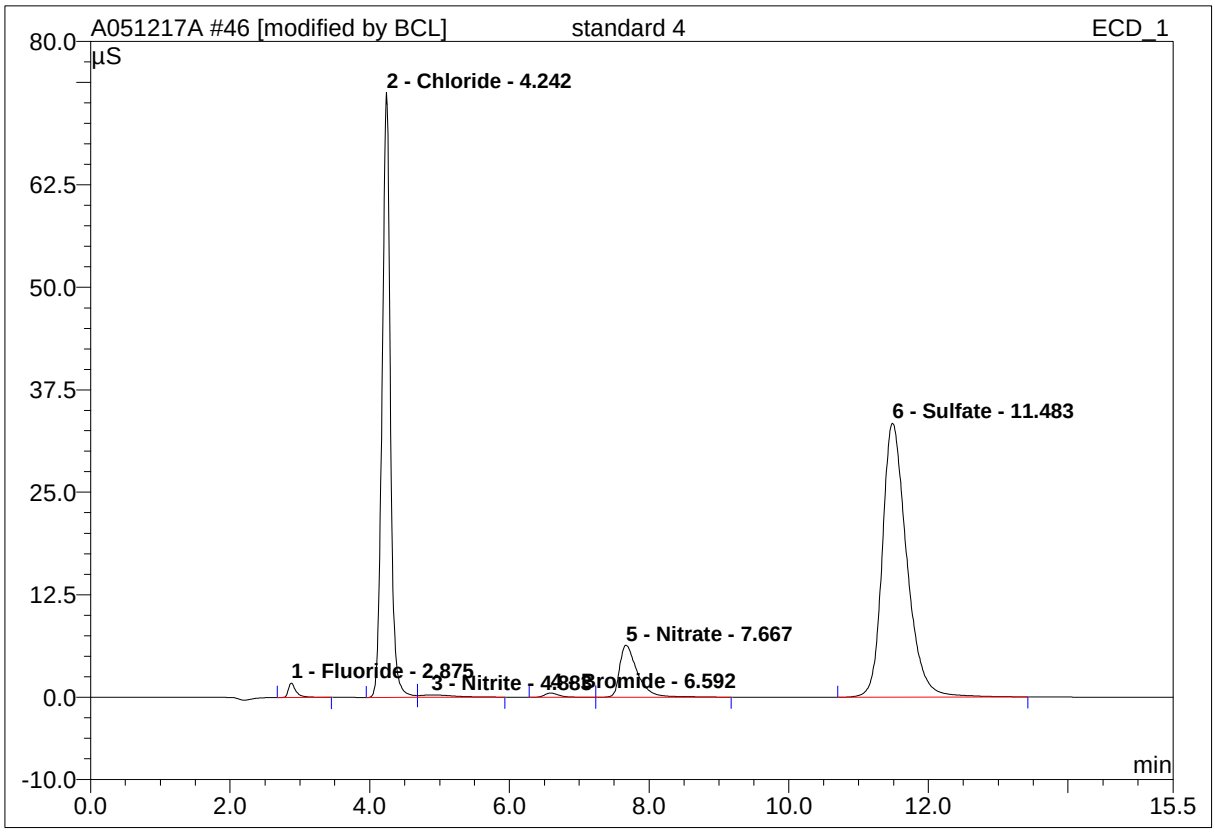
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.749	0.223	0.86	1.000	BMB
2	4.24	Chloride	73.757	10.026	38.63	51.056	BM
3	4.88	Nitrite	0.270	0.153	0.59	1.066	MB
4	6.59	Bromide	0.519	0.123	0.47	2.046	BM
5	7.67	Nitrate	6.348	1.888	7.28	5.064	MB
6	11.48	Sulfate	33.421	13.536	52.16	100.852	BMB
Total:			116.063	25.950	100.00	161.084	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

46 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 13:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



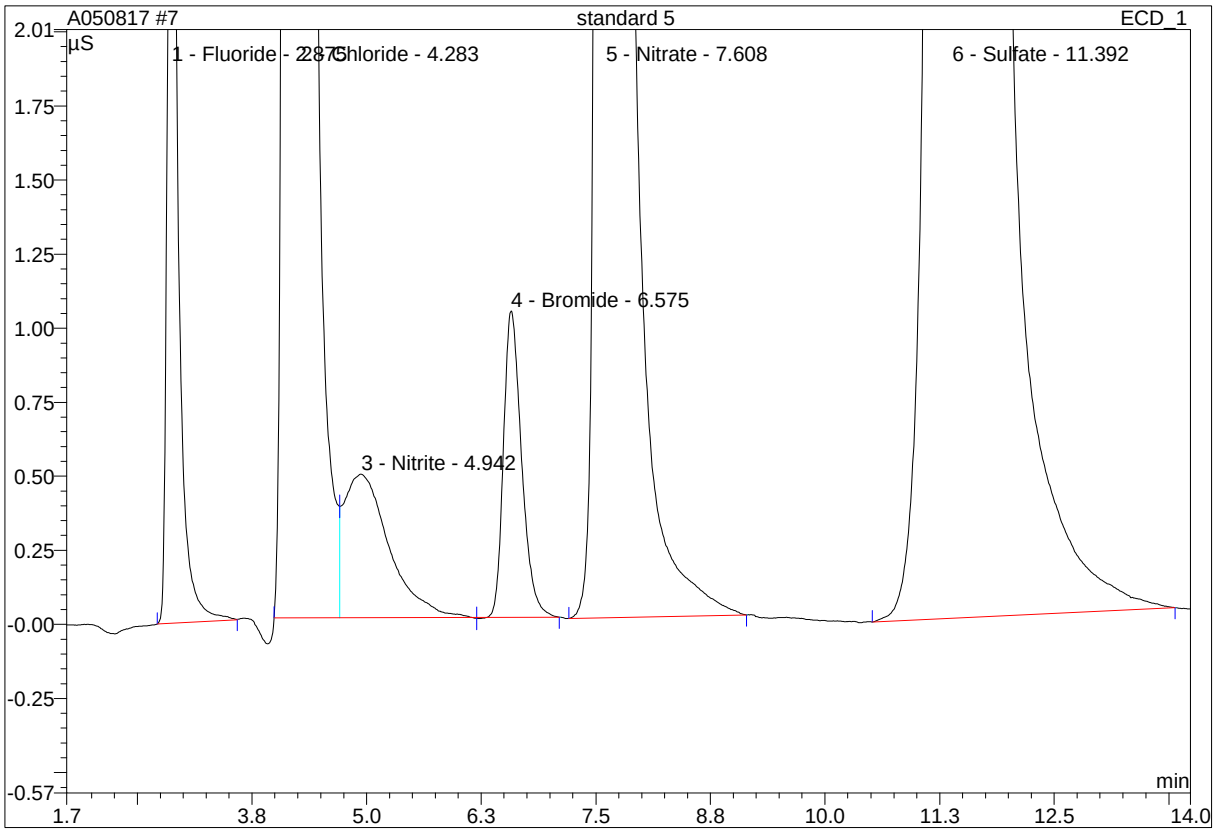
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.752	0.225	0.87	1.004	BMB*
2	4.24	Chloride	73.794	10.046	38.68	51.117	BM *
3	4.88	Nitrite	0.270	0.154	0.59	1.068	MB*
4	6.59	Bromide	0.519	0.123	0.47	2.046	BM
5	7.67	Nitrate	6.348	1.888	7.27	5.064	MB
6	11.48	Sulfate	33.421	13.536	52.12	100.852	BMB
Total:			116.104	25.972	100.00	161.150	

modified on: 05.08.17 14:43 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 13:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



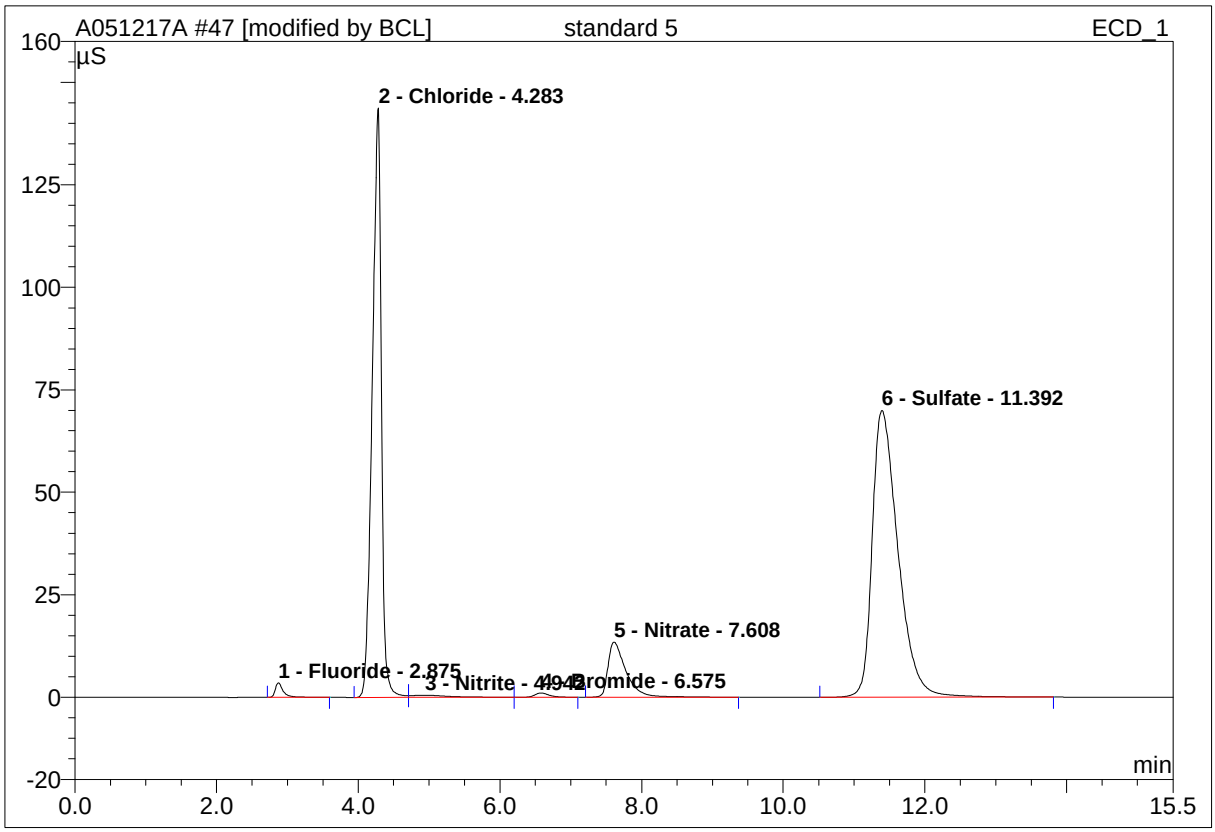
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	3.524	0.454	0.81	2.002	BM
2	4.28	Chloride	143.694	21.383	38.32	103.076	BM
3	4.94	Nitrite	0.484	0.275	0.49	1.907	M
4	6.58	Bromide	1.034	0.237	0.42	3.945	MB
5	7.61	Nitrate	13.419	3.956	7.09	10.064	BMB
6	11.39	Sulfate	70.001	29.496	52.86	205.802	BMB
Total:			232.156	55.800	100.00	326.796	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

47 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 13:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



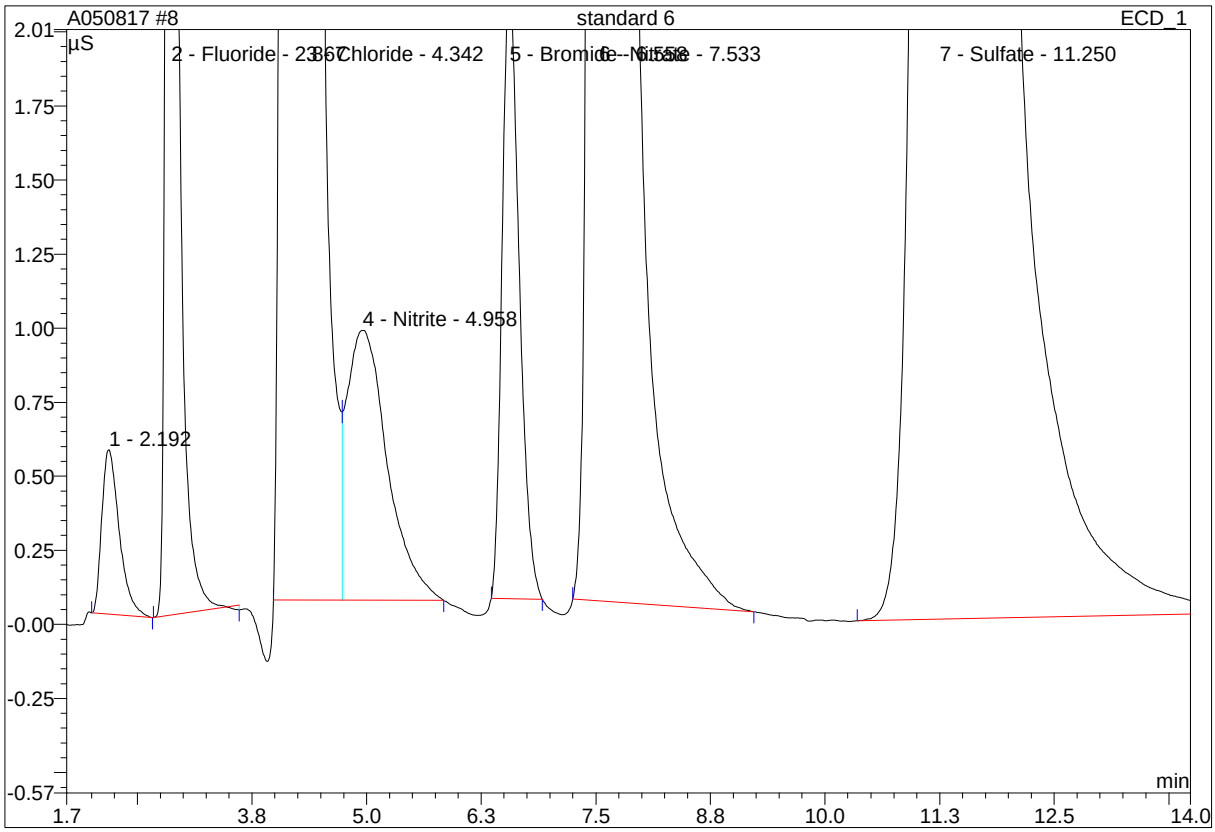
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	3.524	0.454	0.81	2.002	BM
2	4.28	Chloride	143.740	21.412	38.34	103.153	BM *
3	4.94	Nitrite	0.483	0.276	0.49	1.911	Mb*
4	6.58	Bromide	1.037	0.238	0.43	3.962	bMB*
5	7.61	Nitrate	13.421	3.966	7.10	10.079	BMB*
6	11.39	Sulfate	70.001	29.496	52.82	205.802	BMB
Total:			232.205	55.842	100.00	326.908	

modified on: 05.08.17 14:43 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 14:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.19	n.a.	0.555	0.123	0.10	n.a.	BMB
2	2.87	Fluoride	7.120	0.921	0.77	3.998	BM
3	4.34	Chloride	245.222	45.046	37.81	198.586	BM
4	4.96	Nitrite	0.912	0.465	0.39	4.001	MB
5	6.56	Bromide	2.075	0.450	0.38	7.983	BMB
6	7.53	Nitrate	29.076	8.586	7.21	19.954	BMB
7	11.25	Sulfate	137.361	63.553	53.34	397.693	BMB
Total:			422.320	119.144	100.00	632.215	

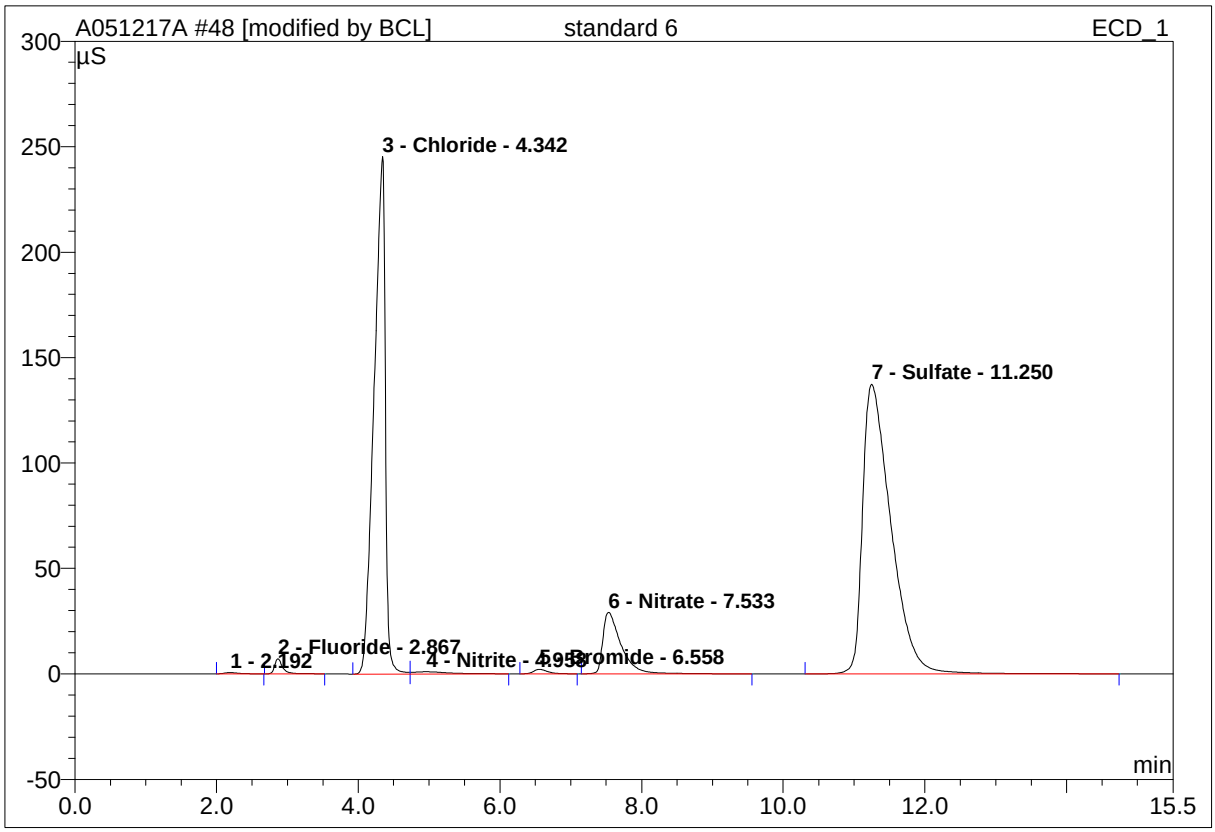
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

48 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 14:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.19	n.a.	0.555	0.123	0.10	n.a.	BMB
2	2.87	Fluoride	7.122	0.925	0.77	3.998	BMB*
3	4.34	Chloride	245.397	45.180	37.80	198.618	BM *
4	4.96	Nitrite	1.042	0.592	0.50	4.027	MB*
5	6.56	Bromide	2.127	0.483	0.40	8.009	BMB*
6	7.53	Nitrate	29.124	8.662	7.25	19.961	BMB*
7	11.25	Sulfate	137.361	63.555	53.18	397.694	BMB*
Total:			422.729	119.520	100.00	632.308	

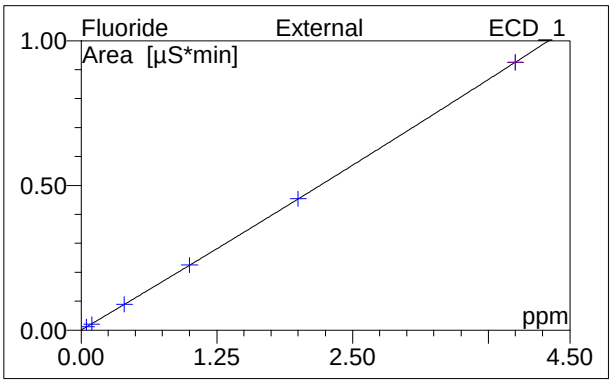
modified on: 05.08.17 14:44 By: OLH/EMW

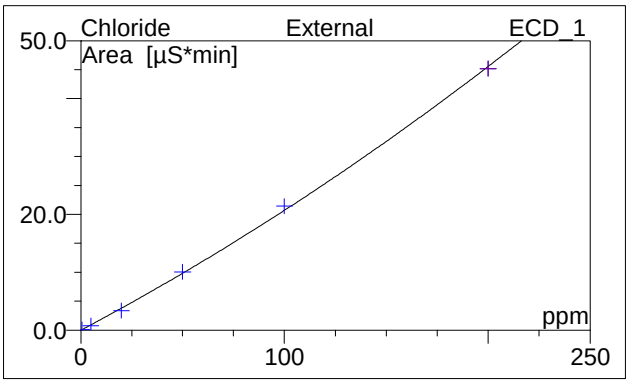
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

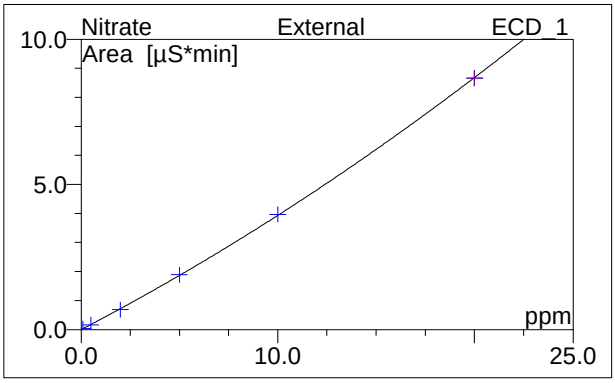
BMB = This peak type is for resolved peaks.

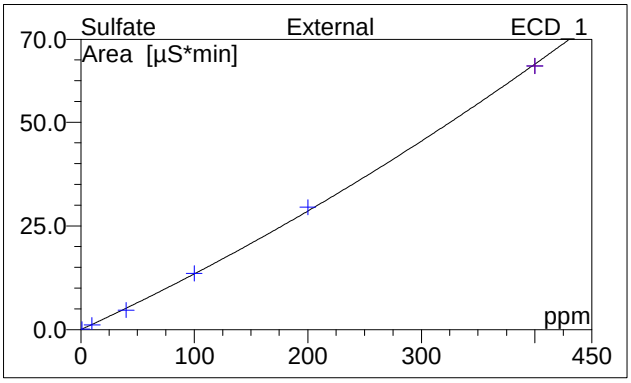
48 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/8/2017 14:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**







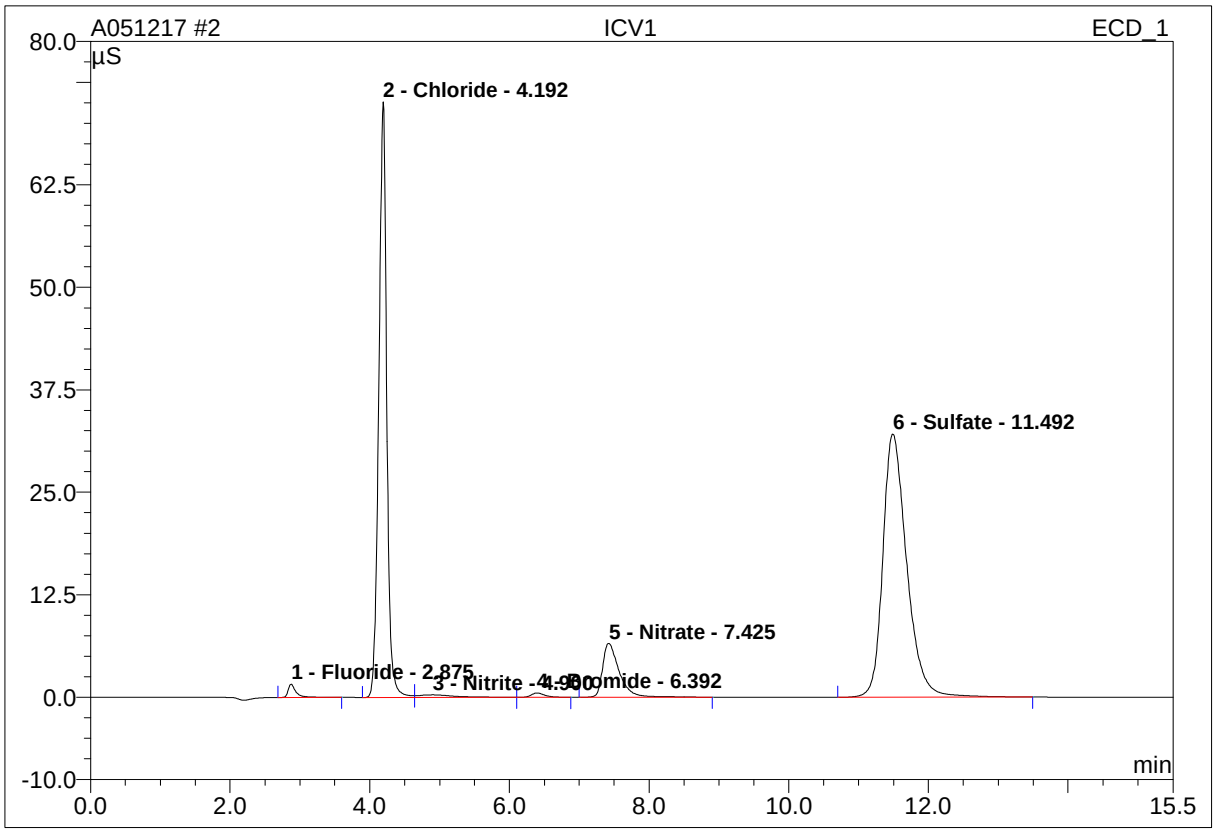


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	2.19	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.87	Fluoride	XA0QOff	6	99.9845	-0.0003	0.2219	0.0024
3	4.34	Chloride	XA0QOff	6	99.7442	-0.0254	0.1864	0.0002
4	4.96	Nitrite	XA0QOff	4	99.8673	0.0021	0.1405	0.0015
5	6.56	Bromide	XA0QOff	6	99.9860	-0.0001	0.0601	0.0000
6	7.53	Nitrate	XA0QOff	6	99.7831	-0.0029	0.3528	0.0041
7	11.25	Sulfate	XA0QOff	6	99.6932	-0.0235	0.1258	0.0001
Average:					99.8430	-0.0083	0.1813	0.0014

Raw Data - ICV

2 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 8:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.600	0.209	0.85	0.932	BMB
2	4.19	Chloride	72.664	9.569	38.85	48.811	BM
3	4.90	Nitrite	0.323	0.189	0.77	1.315	MB
4	6.39	Bromide	0.527	0.116	0.47	1.930	bMB
5	7.43	Nitrate	6.553	1.814	7.36	4.876	BMB
6	11.49	Sulfate	32.073	12.734	51.70	95.223	BMB
Total:			113.739	24.630	100.00	153.086	

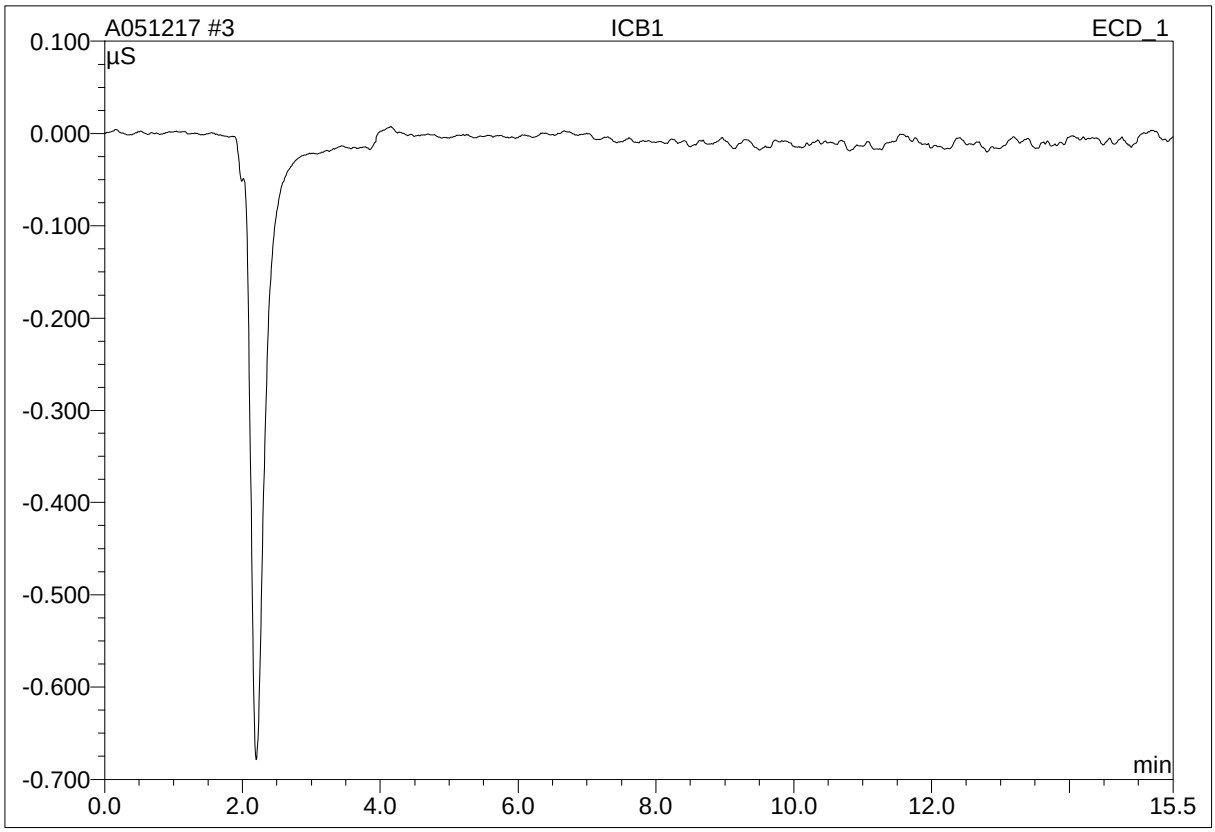
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - ICB

3 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 9:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

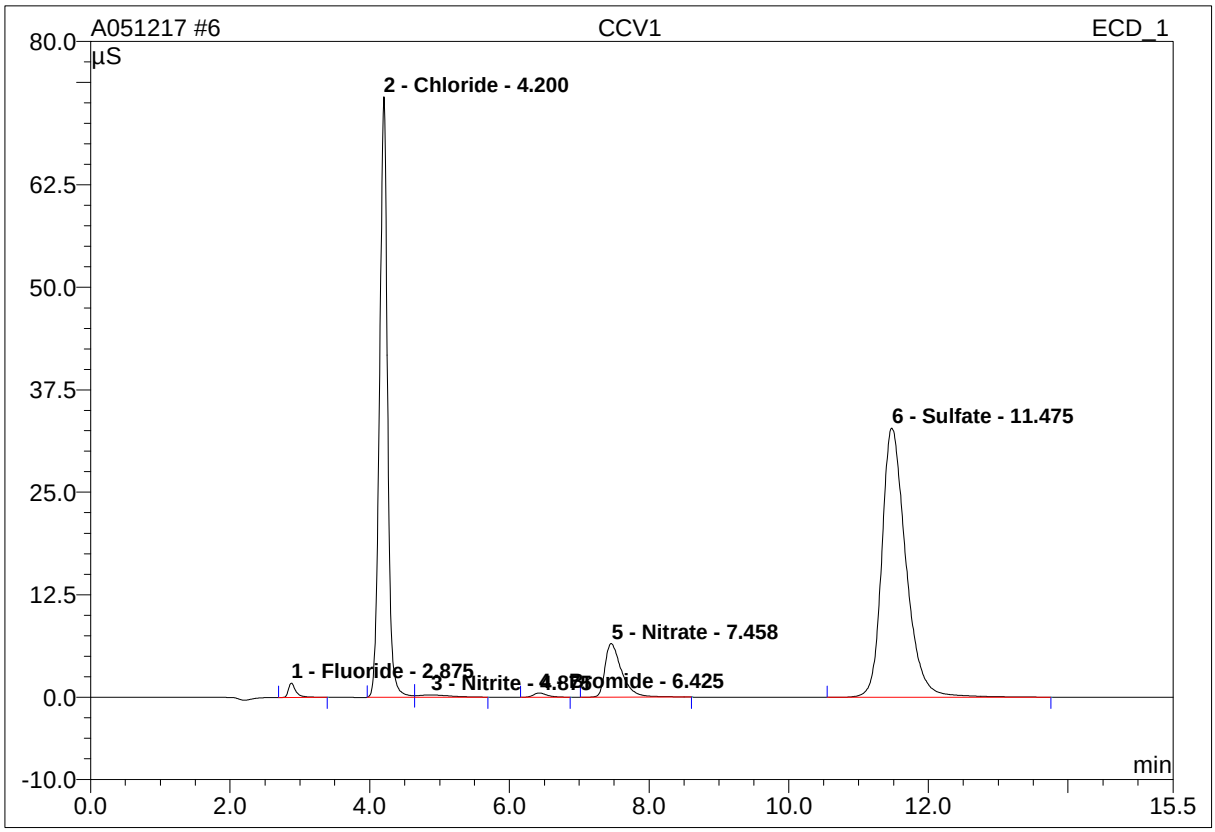
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - CCV

6 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 11:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



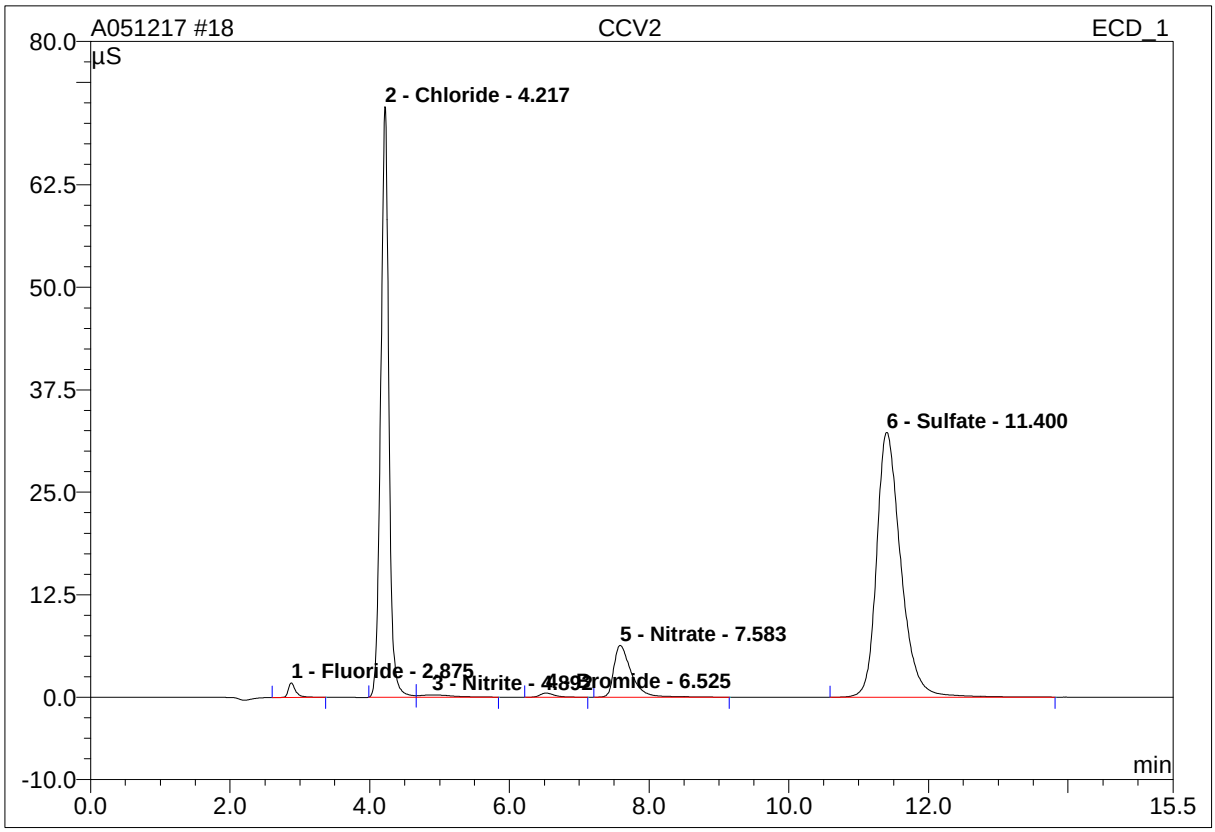
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.743	0.216	0.86	0.962	BMB
2	4.20	Chloride	73.209	9.702	38.64	49.454	BM
3	4.88	Nitrite	0.264	0.138	0.55	0.957	MB
4	6.43	Bromide	0.525	0.119	0.47	1.976	BMB
5	7.46	Nitrate	6.563	1.812	7.22	4.870	BMB
6	11.48	Sulfate	32.859	13.119	52.26	97.931	BMB
Total:			115.163	25.105	100.00	156.150	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

18 CCV2

Sample Name:	**CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 15:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



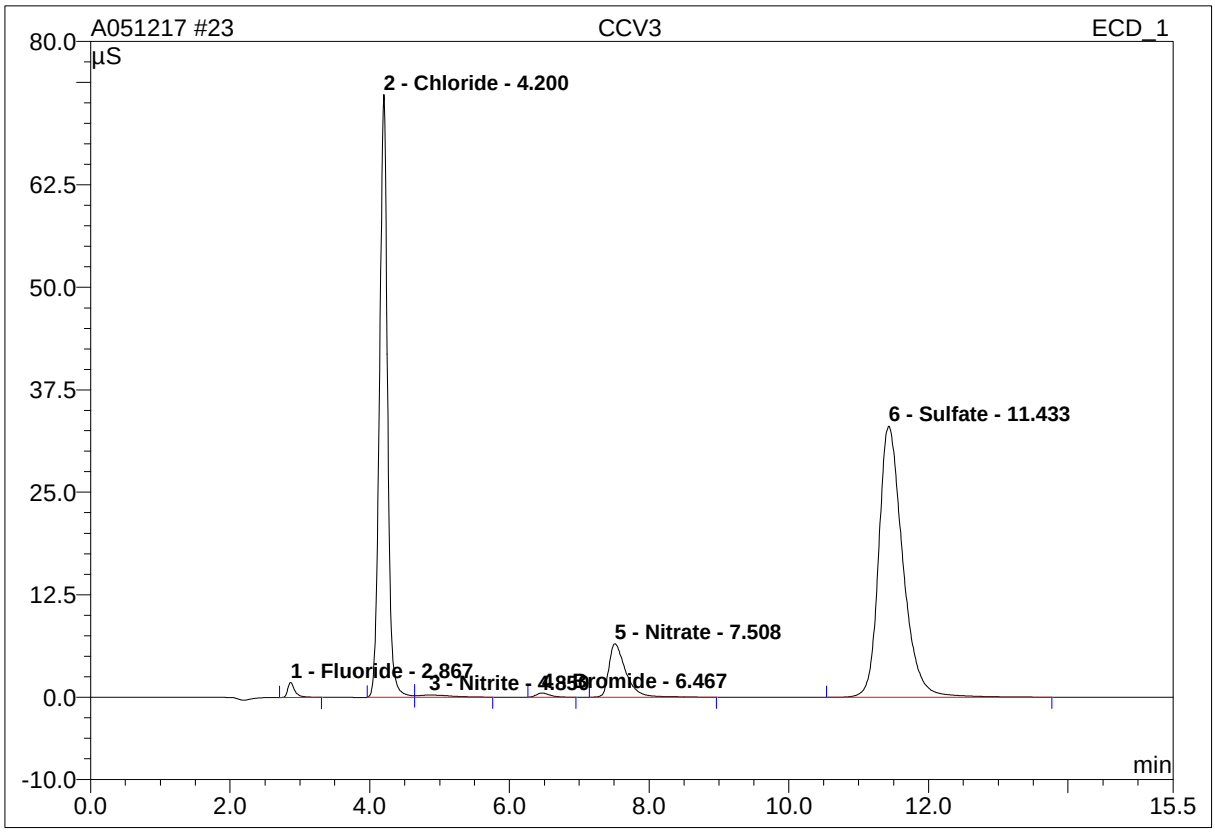
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.768	0.217	0.87	0.969	BMB
2	4.22	Chloride	72.016	9.674	38.73	49.318	BM
3	4.89	Nitrite	0.277	0.145	0.58	1.009	MB
4	6.53	Bromide	0.516	0.124	0.50	2.056	BMB
5	7.58	Nitrate	6.319	1.840	7.37	4.943	BMB
6	11.40	Sulfate	32.271	12.975	51.95	96.918	BMB
Total:			113.166	24.974	100.00	155.212	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

23 CCV3

Sample Name:	**CCV3**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 17:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



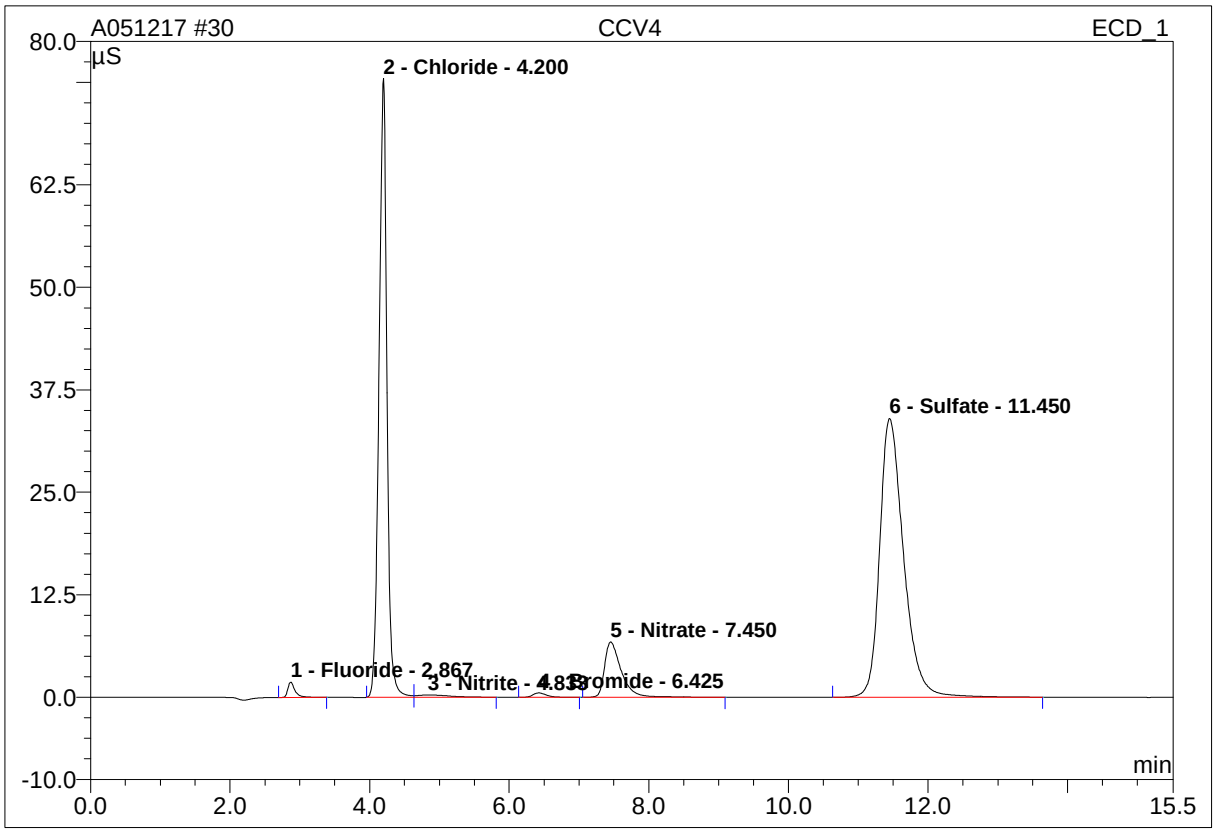
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.799	0.218	0.86	0.973	BMB
2	4.20	Chloride	73.474	9.794	38.65	49.902	BM
3	4.85	Nitrite	0.265	0.141	0.56	0.978	MB
4	6.47	Bromide	0.513	0.114	0.45	1.904	BMB
5	7.51	Nitrate	6.502	1.842	7.27	4.947	BMB
6	11.43	Sulfate	33.087	13.233	52.22	98.727	BMB
Total:			115.641	25.342	100.00	157.431	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

30 CCV4

Sample Name:	**CCV4**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 19:58**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.51**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.859	0.224	0.87	0.998	BMB
2	4.20	Chloride	75.441	9.957	38.51	50.686	BM
3	4.83	Nitrite	0.281	0.149	0.58	1.036	MB
4	6.43	Bromide	0.542	0.122	0.47	2.028	BMB
5	7.45	Nitrate	6.748	1.884	7.29	5.054	BMB
6	11.45	Sulfate	34.031	13.516	52.28	100.712	BMB
Total:			118.903	25.852	100.00	160.514	

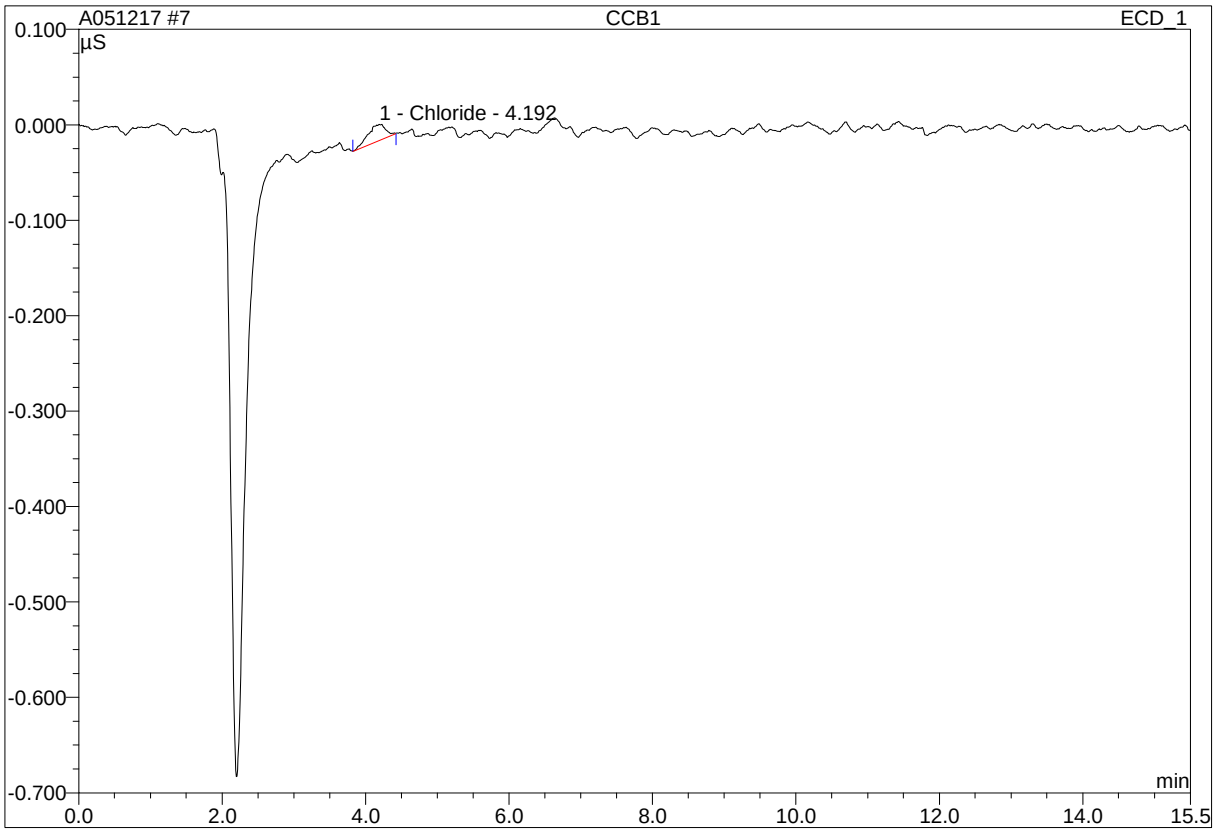
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - CCB

7 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 12:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



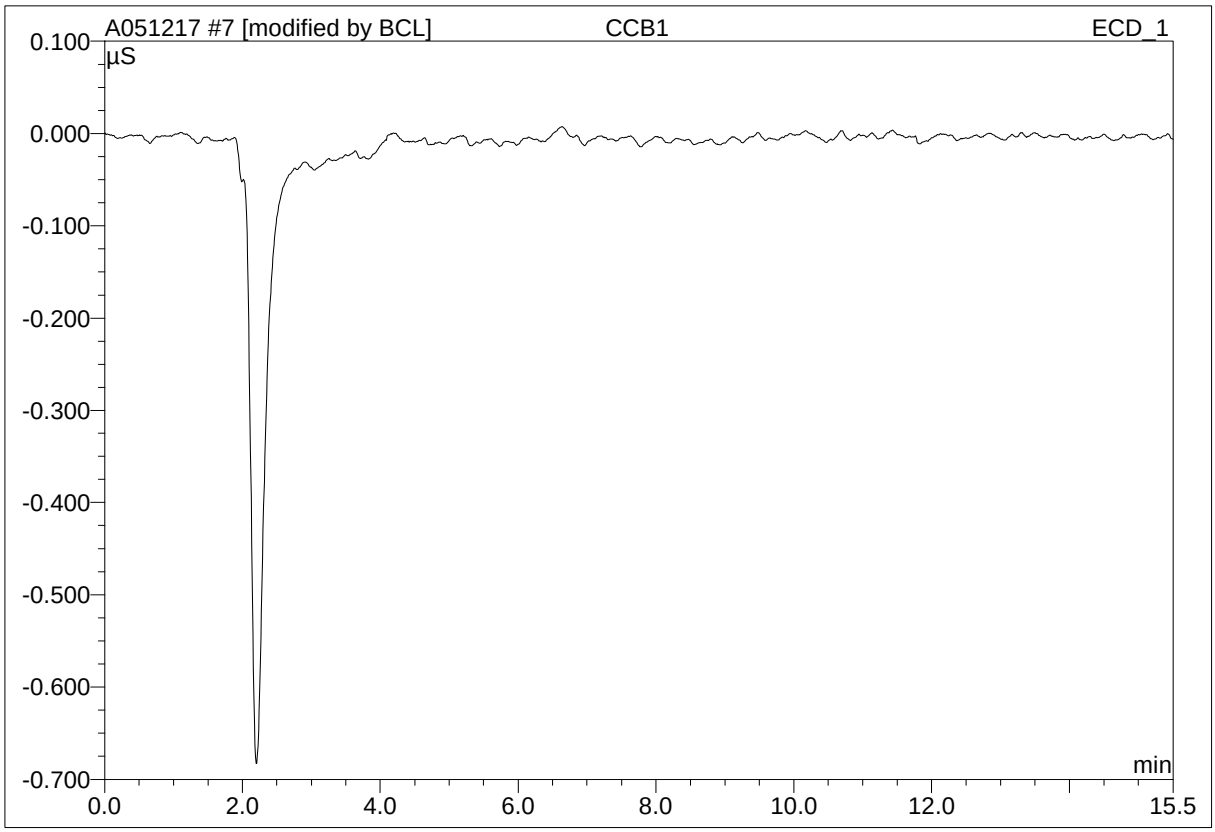
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.19	Chloride	0.017	0.005	100.00	0.163	BMB
Total:			0.017	0.005	100.00	0.163	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 12:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



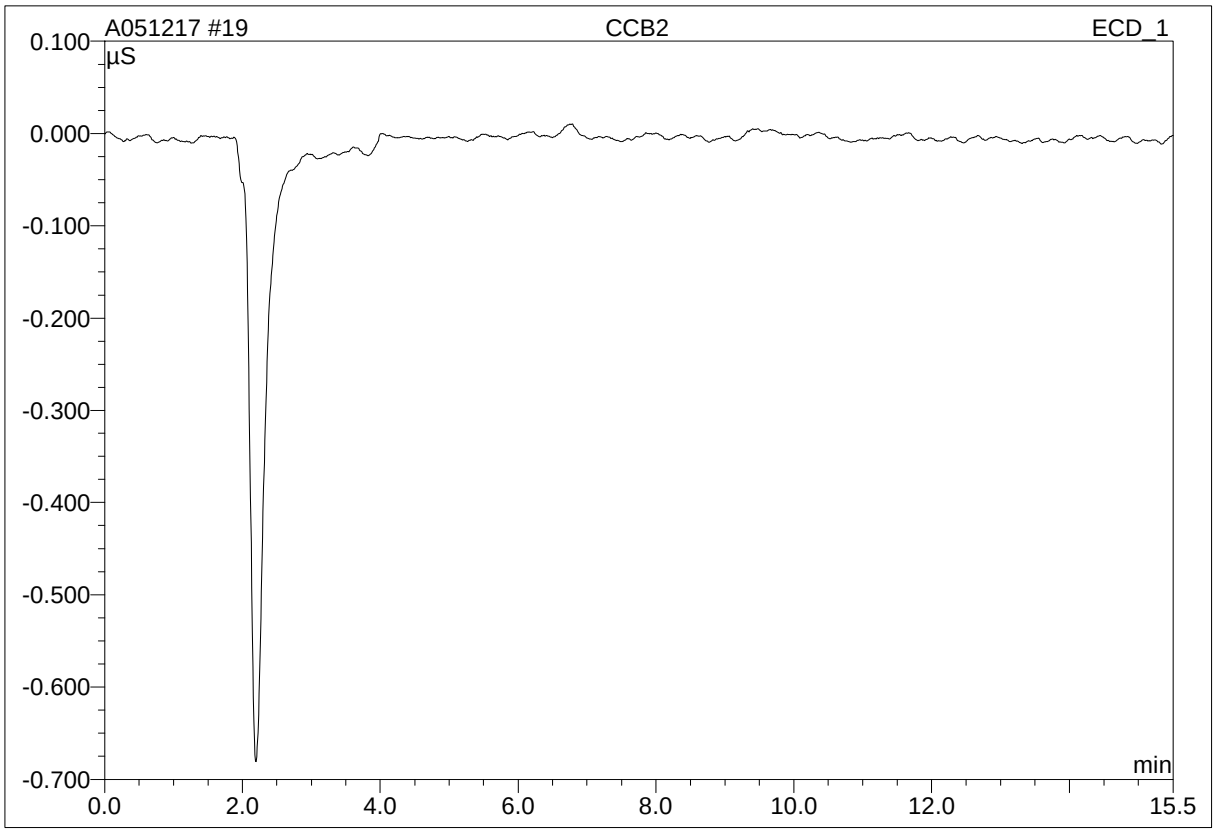
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 05.12.17 14:21 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

19 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 15:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



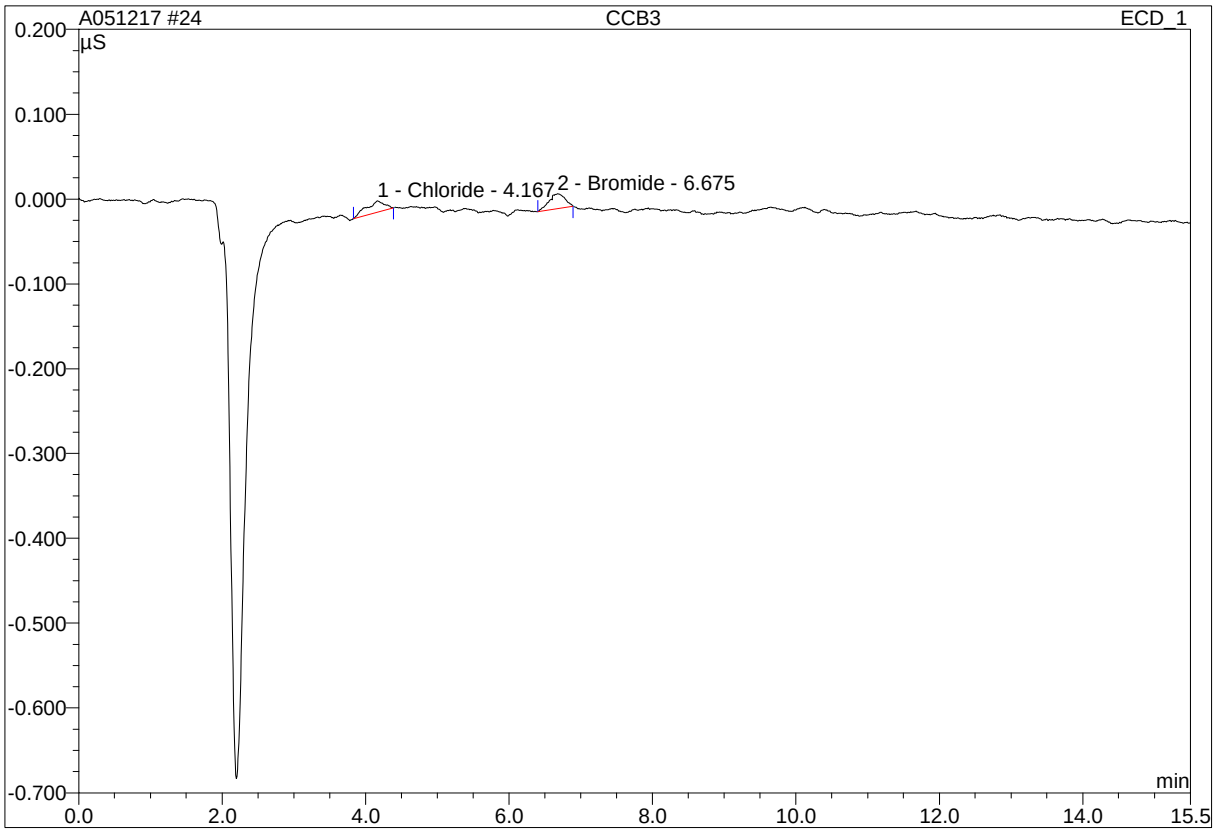
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

24 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 17:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



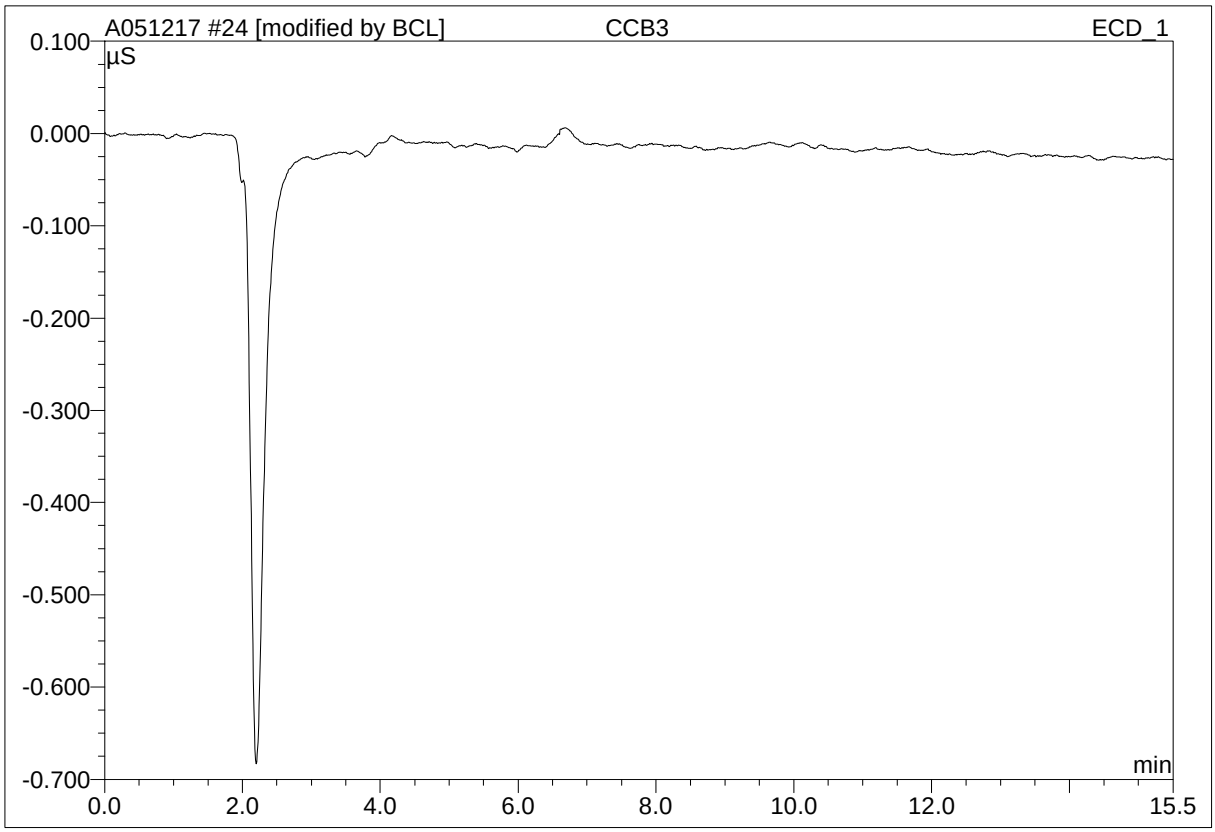
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.17	Chloride	0.013	0.004	46.33	0.157	BMB
2	6.68	Bromide	0.018	0.005	53.67	0.077	BMB
Total:			0.031	0.009	100.00	0.235	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

24 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 17:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



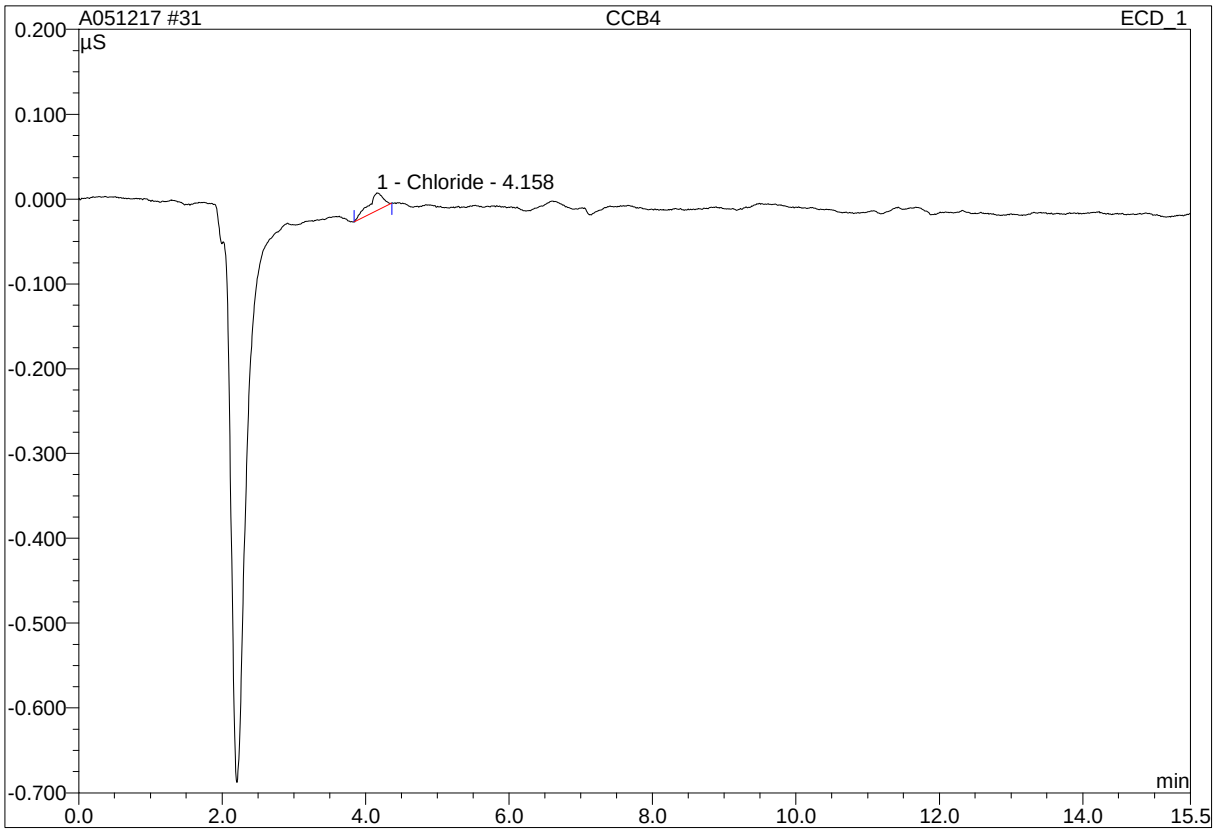
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 05.12.17 17:53 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

31 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 20:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



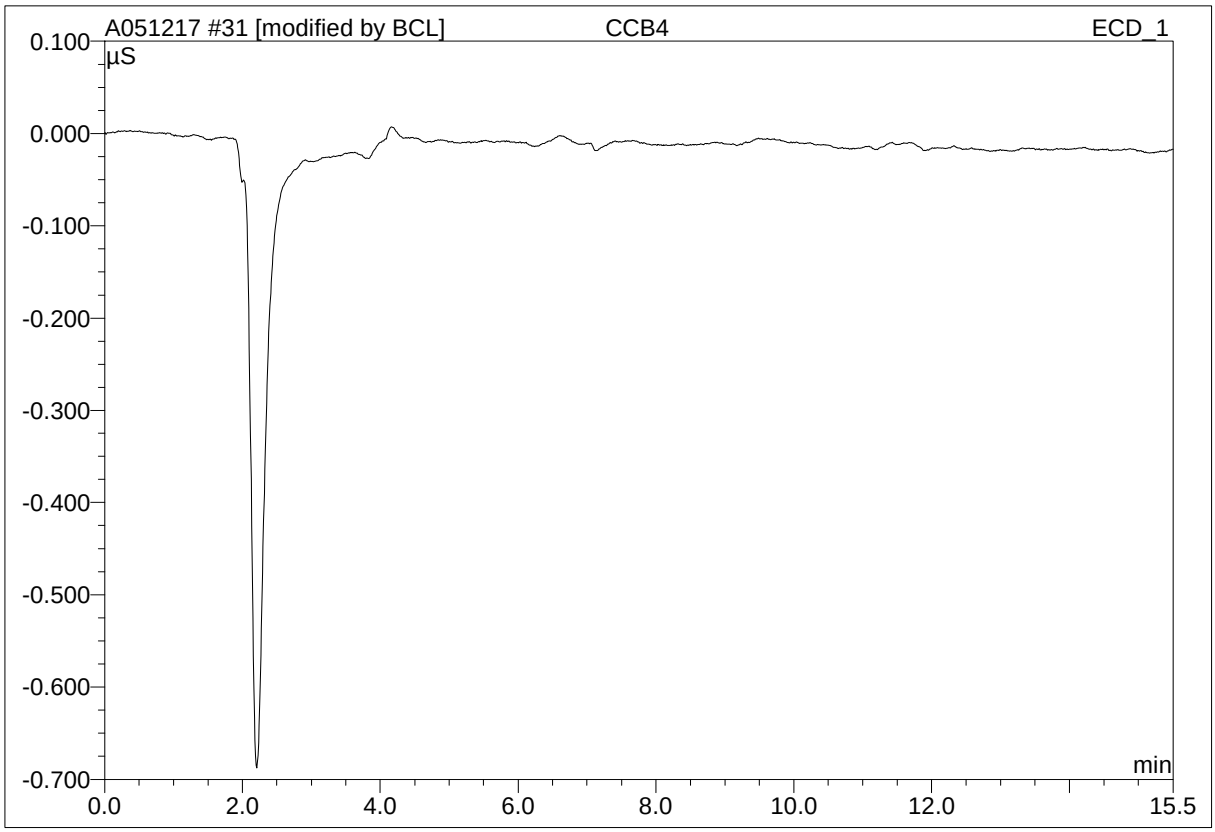
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.16	Chloride	0.021	0.005	100.00	0.163	BMB
Total:			0.021	0.005	100.00	0.163	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

31 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 20:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

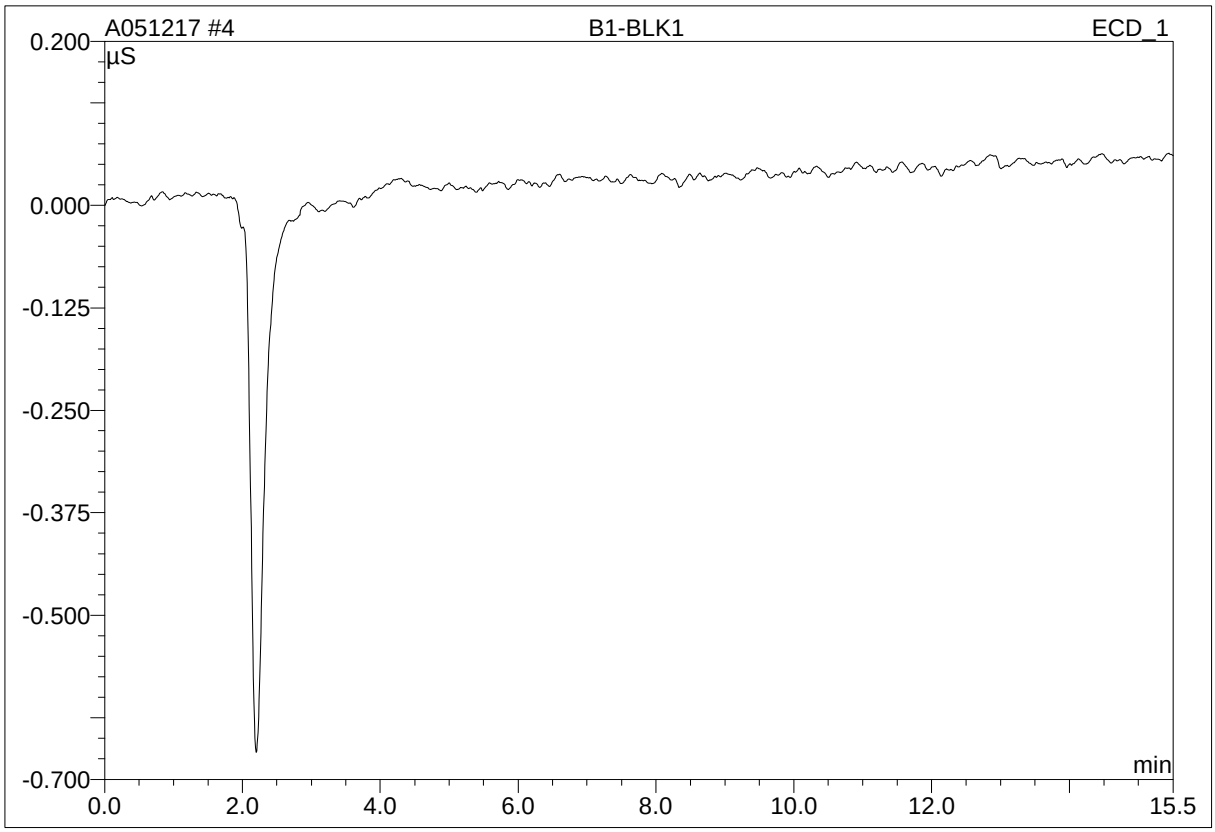
modified on: 05.12.17 21:12 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Method Blank

4 B1-BLK1

Sample Name:	**B1-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 9:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

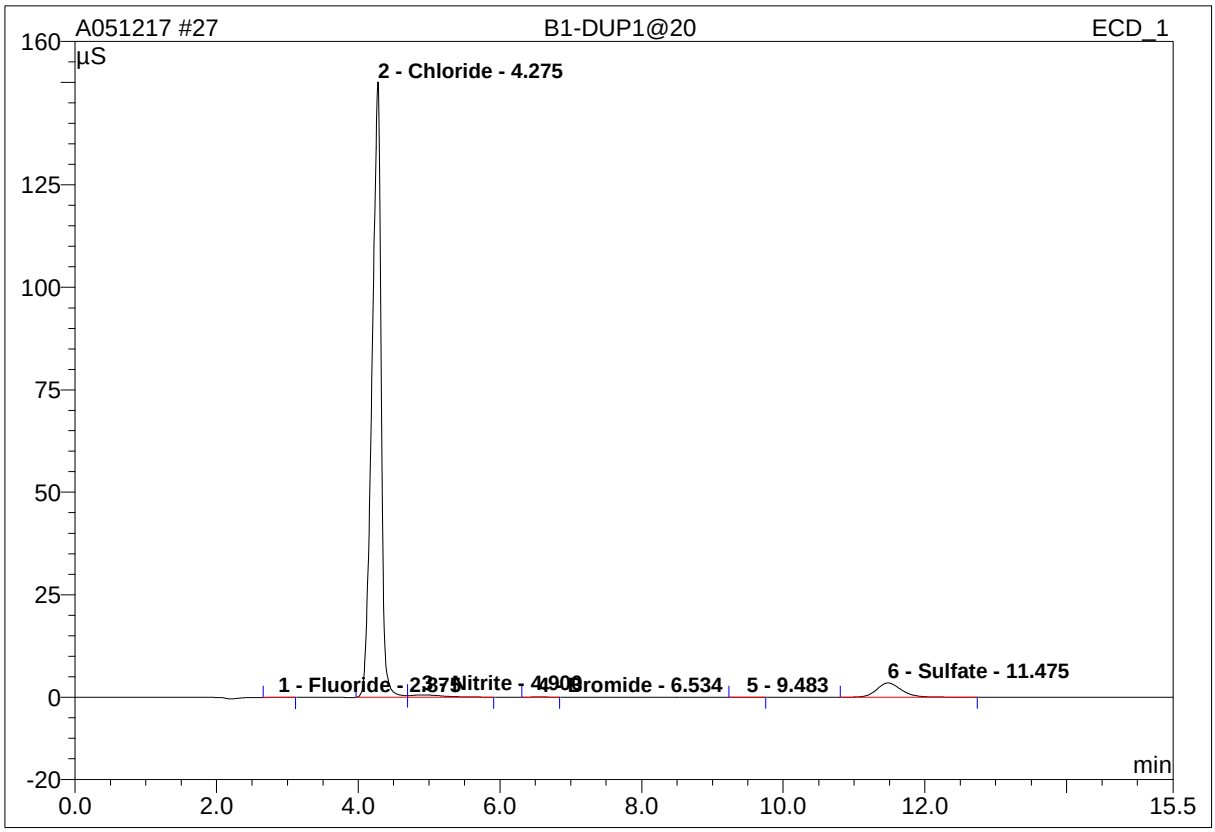
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Duplicate

27 B1-DUP1@20

Sample Name:	**B1-DUP1@20**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 19:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.069	0.009	0.04	0.040	BMB
2	4.28	Chloride	150.041	22.388	92.73	107.398	BM
3	4.90	Nitrite	0.582	0.302	1.25	2.089	MB
4	6.53	Bromide	0.095	0.021	0.09	0.351	BMB
5	9.48	n.a.	0.017	0.005	0.02	n.a.	BMB
6	11.48	Sulfate	3.479	1.419	5.88	11.374	BMB
Total:			154.283	24.144	100.00	121.252	

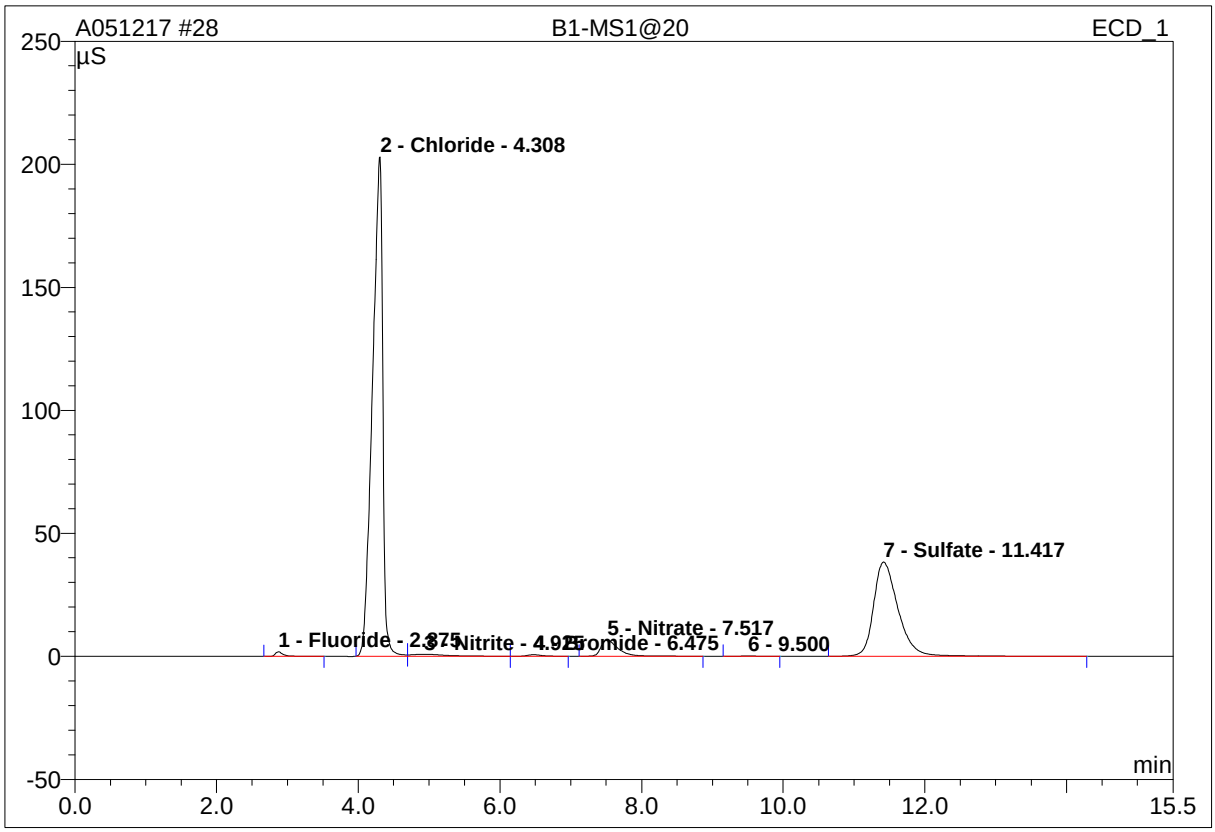
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Matrix Spike

28 B1-MS1@20

Sample Name:	**B1-MS1@20**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 19:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.832	0.228	0.44	1.019	MB
2	4.31	Chloride	202.971	33.980	65.39	155.512	BM
3	4.93	Nitrite	0.796	0.432	0.83	2.964	MB
4	6.48	Bromide	0.629	0.142	0.27	2.363	bMB
5	7.52	Nitrate	6.622	1.863	3.58	5.000	BMB
6	9.50	n.a.	0.065	0.022	0.04	n.a.	BMB
7	11.42	Sulfate	38.295	15.300	29.44	113.090	BMB
Total:			251.210	51.967	100.00	279.950	

modified on: n.a. By: OLH/EMW

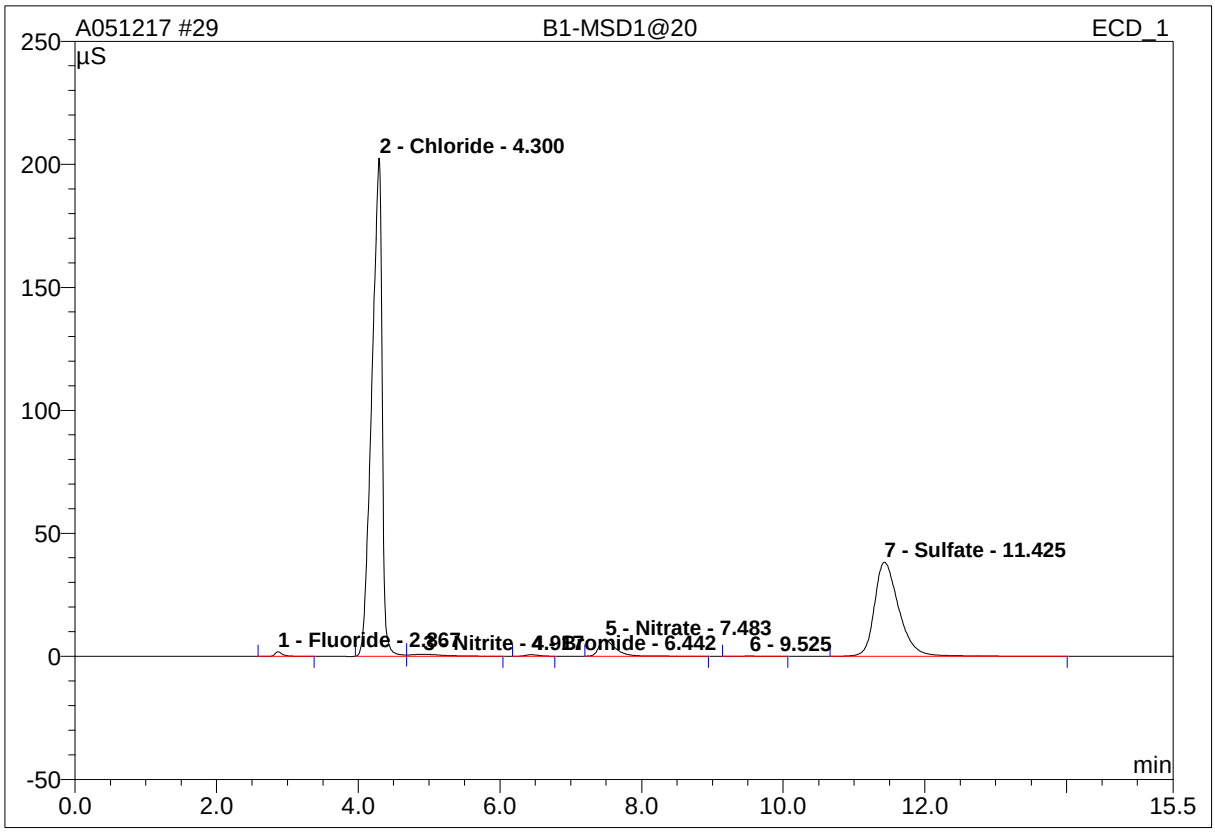
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

Raw Data - Matrix Spike Duplicate

29 B1-MSD1@20

Sample Name:	**B1-MSD1@20**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 19:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.827	0.219	0.42	0.978	MB
2	4.30	Chloride	202.476	33.883	65.45	155.126	BM
3	4.92	Nitrite	0.777	0.409	0.79	2.812	MB
4	6.44	Bromide	0.623	0.133	0.26	2.206	BM
5	7.48	Nitrate	6.628	1.841	3.56	4.946	BMB
6	9.53	n.a.	0.071	0.027	0.05	n.a.	BMB
7	11.43	Sulfate	38.252	15.259	29.47	112.803	BMB
Total:			250.654	51.771	100.00	278.870	

modified on: n.a. By: OLH/EMW

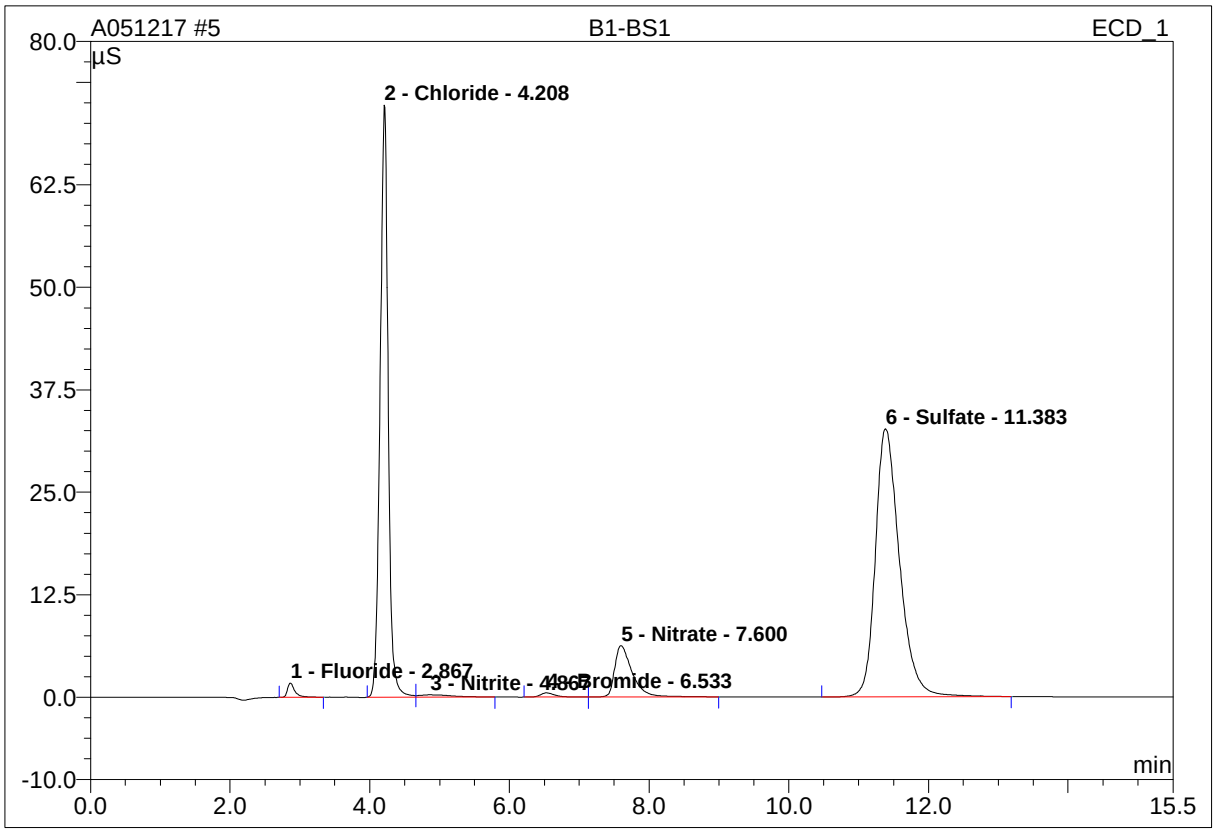
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

Raw Data - Lab Control Sample

5 B1-BS1

Sample Name:	**B1-BS1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/12/2017 9:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.722	0.215	0.86	0.959	BMB
2	4.21	Chloride	72.205	9.676	38.57	49.328	BM
3	4.87	Nitrite	0.272	0.145	0.58	1.009	MB
4	6.53	Bromide	0.514	0.121	0.48	2.015	BM
5	7.60	Nitrate	6.245	1.822	7.26	4.897	MB
6	11.38	Sulfate	32.723	13.109	52.25	97.863	BMB
Total:			113.681	25.089	100.00	156.072	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Batch Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1582

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1713052-01 A	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713052-01 A	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713052-01 A	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713052-02 A	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713052-02 A	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713052-02 A	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-04 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-04 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713059-04 G	i300.0w Fluoride	5/12/2017 8:00AM		20	20					
1713059-04 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-04 G	i300.0w Nitrate as NO3	5/12/2017 8:00AM		20	20					
1713059-04RE1 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-04RE1 G	i300.0w Nitrate as NO3	5/12/2017 8:00AM		20	20					
1713059-04RE1 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-04RE1 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713059-04RE1 G	i300.0w Fluoride	5/12/2017 8:00AM		20	20					
1713059-04RE2 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713059-04RE2 G	i300.0w Fluoride	5/12/2017 8:00AM		20	20					
1713059-04RE2 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-04RE2 G	i300.0w Nitrate as NO3	5/12/2017 8:00AM		20	20					
1713059-04RE2 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-05 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-05 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713059-05 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-06 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1582

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1713059-06 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-06 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-08 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713059-08 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-08 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-09 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713059-09 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-09 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-10 G	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713059-10 G	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713059-10 G	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713068-01 A	i300.0w Fluoride	5/12/2017 8:00AM	OLH	20	20					
1713068-01 A	i300.0w Nitrate as N	5/12/2017 8:00AM	OLH	20	20					
1713068-01 A	i300.0w Sulfate	5/12/2017 8:00AM	OLH	20	20					
1713068-01 A	i300.0w Chloride	5/12/2017 8:00AM	OLH	20	20					
1713069-01 A	i300.0w Nitrate as NO3	5/12/2017 8:00AM	OLH	20	20					
B[E1582-BLK1	QC	5/12/2017 8:00AM	OLH	20	20					
B[E1582-BS1	QC	5/12/2017 8:00AM	OLH	20	20	7D25031		200		
B[E1582-DUP1	QC	5/12/2017 8:00AM	OLH	20	20		1713059-04RE2			
B[E1582-MS1	QC	5/12/2017 8:00AM	OLH	19.8	20	7D25031	1713059-04RE2	4000		
B[E1582-MSD1	QC	5/12/2017 8:00AM	OLH	19.8	20	7D25031	1713059-04RE2	4000		

Spike Mixes	Description	Solvent	Prepared	Expires
7D25031	300.0 HSSS-SPIKE	DI WATER	4/25/2017 by Emily Wells	10/25/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1708561

Instrument: IC1
Calibration ID:
Sequence Date: 05/12/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708561-ICV1	QC		1		7E10017		
1708561-ICB1	QC		2				
B[E1582-BLK1	QC		3				
B[E1582-BS1	QC		4				
1708561-CCV1	QC		5		7E10018		
1708561-CCB1	QC		6				
1713059-04	i300.0w Chloride	G	7				
1713059-04	i300.0w Fluoride	G	7				BatchQC
1713059-04	i300.0w Nitrate as N	G	7				
1713059-04	i300.0w Nitrate as NO3	G	7				BatchQC
1713059-04	i300.0w Sulfate	G	7				
1713059-05	i300.0w Chloride	G	8				
1713059-05	i300.0w Nitrate as N	G	8				
1713059-05	i300.0w Sulfate	G	8				
1713059-06	i300.0w Chloride	G	9				
1713059-06	i300.0w Nitrate as N	G	9				
1713059-06	i300.0w Sulfate	G	9				
1713059-08	i300.0w Chloride	G	10				
1713059-08	i300.0w Nitrate as N	G	10				
1713059-08	i300.0w Sulfate	G	10				
1713059-09	i300.0w Chloride	G	11				
1713059-09	i300.0w Nitrate as N	G	11				
1713059-09	i300.0w Sulfate	G	11				
1713059-10	i300.0w Chloride	G	12				
1713059-10	i300.0w Nitrate as N	G	12				
1713059-10	i300.0w Sulfate	G	12				
1713068-01	i300.0w Chloride	A	13				
1713068-01	i300.0w Fluoride	A	13				
1713068-01	i300.0w Nitrate as N	A	13				
1713068-01	i300.0w Sulfate	A	13				
1708561-CCV2	QC		14		7E10018		
1708561-CCB2	QC		15				
1713052-01	i300.0w Chloride	A	16				
1713052-01	i300.0w Nitrate as N	A	16				
1713052-01	i300.0w Sulfate	A	16				
1713052-02	i300.0w Chloride	A	17				
1713052-02	i300.0w Nitrate as N	A	17				
1713052-02	i300.0w Sulfate	A	17				
1713069-01	i300.0w Nitrate as NO3	A	18				

ANALYSIS SEQUENCE

1708561

Instrument: IC1
Calibration ID:
Sequence Date: 05/12/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708561-CCV3	QC		19		7E10018		
1708561-CCB3	QC		20				
1713059-04RE1	i300.0w Chloride	G	21				Added 5/15/2017 by JSW
1713059-04RE1	i300.0w Fluoride	G	21				Added 5/15/2017 by JSW
1713059-04RE1	i300.0w Nitrate as N	G	21				Added 5/15/2017 by JSW
1713059-04RE1	i300.0w Nitrate as NO3	G	21				Added 5/15/2017 by JSW
1713059-04RE1	i300.0w Sulfate	G	21				Added 5/15/2017 by JSW
1713059-04RE2	i300.0w Chloride	G	22				Added 5/15/2017 by JSW
1713059-04RE2	i300.0w Fluoride	G	22				Added 5/15/2017 by JSW
1713059-04RE2	i300.0w Nitrate as N	G	22				Added 5/15/2017 by JSW
1713059-04RE2	i300.0w Nitrate as NO3	G	22				Added 5/15/2017 by JSW
1713059-04RE2	i300.0w Sulfate	G	22				Added 5/15/2017 by JSW
B[E1582-DUP1	QC		23				
B[E1582-MS1	QC		24				
B[E1582-MSD1	QC		25				
1708561-CCV4	QC		26		7E10018		
1708561-CCB4	QC		27				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **1713059**
Class: **WET**
Method: **EPA-310.1**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-310.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27MW09_170511	1713059-04
27MW10_170511	1713059-05
27MW11_170511	1713059-06
27MW12_170511	1713059-08
27MW13_170511	1713059-09
27MW14_170511	1713059-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 06-13-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-310.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MET-1

Analyte	DL	LOD	LOQ	Units
Total Alkalinity as CaCO3	4.1	4.1	4.1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04
File ID: Tiamo051717-116
Sampled: 05/11/17 09:38
Prepared: 05/17/17 08:20
Analyzed: 05/17/17 17:24
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[E1747
Sequence: 1708812
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	380	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-05
File ID: Tiamo051717-118
Sampled: 05/11/17 11:34
Prepared: 05/17/17 08:20
Analyzed: 05/17/17 17:31
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[E1747
Sequence: 1708812
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	170	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW11_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-06
File ID: Tiamo051717-125
Sampled: 05/11/17 08:20
Prepared: 05/17/17 08:20
Analyzed: 05/17/17 18:06
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[E1748
Sequence: 1708812
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	290	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW12_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-08
File ID: Tiamo051717-127
Sampled: 05/11/17 09:37
Prepared: 05/17/17 08:20
Analyzed: 05/17/17 18:13
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[E1748
Sequence: 1708812
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	100	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW13_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-09
File ID: Tiamo051717-123
Sampled: 05/11/17 11:05
Prepared: 05/17/17 08:20
Analyzed: 05/17/17 17:54
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[E1748
Sequence: 1708812
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	250	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW14_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-10
File ID: Tiamo051717-128
Sampled: 05/11/17 08:15
Prepared: 05/17/17 08:20
Analyzed: 05/17/17 18:20
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[E1748
Sequence: 1708812
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	210	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1747
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW09_170511	1713059-04	Tiamo051717-116	05/17/17 08:20	
27MW10_170511	1713059-05	Tiamo051717-118	05/17/17 08:20	
Blank	B[E1747-BLK1	Tiamo051717-102	05/17/17 08:20	
LCS	B[E1747-BS3	Tiamo051717-101	05/17/17 08:20	
Duplicate	B[E1747-DUP1	Tiamo051717-104	05/17/17 08:20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1748
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW11_170511	1713059-06	Tiamo051717-125	05/17/17 08:20	
27MW12_170511	1713059-08	Tiamo051717-127	05/17/17 08:20	
27MW13_170511	1713059-09	Tiamo051717-123	05/17/17 08:20	
27MW14_170511	1713059-10	Tiamo051717-128	05/17/17 08:20	
Blank	B[E1748-BLK1	Tiamo051717-122	05/17/17 08:20	
LCS	B[E1748-BS3	Tiamo051717-121	05/17/17 08:20	
27MW13_170511	B[E1748-DUP1	Tiamo051717-124	05/17/17 08:20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1747-BLK1	File ID:	Tiamo051717-102
Prepared:	05/17/17 08:20	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	05/17/17 16:17	Instrument:	MET-1		
Batch:	B[E1747	Sequence:	1708812	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Alkalinity as CaCO3	4.1	4.1	4.1	4.1	U

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Project: Alameda
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Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1748-BLK1	File ID:	Tiamo051717-122
Prepared:	05/17/17 08:20	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	05/17/17 17:50	Instrument:	MET-1		
Batch:	B[E1748	Sequence:	1708812	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Alkalinity as CaCO3	4.1	4.1	4.1	4.1	U

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Duplicate

DUPLICATES

EPA-310.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[E1747
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 1713059
Project: Alameda
Laboratory ID: B[E1747-DUP1
Lab Source ID: 1713054-01
Initial/Final: 50 ml / 50 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Alkalinity as CaCO3	10	281.14		274.14		2.52		EPA-310.1

* Values outside of QC limits

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Project Number: 5023146096
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27MW13_170511

DUPLICATES

EPA-310.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[E1748
Preparation: No Prep
Source Sample Name: 27MW13_170511

SDG: 1713059
Project: Alameda
Laboratory ID: B[E1748-DUP1
Lab Source ID: 1713059-09
Initial/Final: 50 ml / 50 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Alkalinity as CaCO3	10	252.54		247.06		2.19		EPA-310.1

* Values outside of QC limits

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Project: Alameda
Project Number: 5023146096
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LCS RECOVERY
EPA-310.1

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[E1747	Laboratory ID:	B[E1747-BS3
Preparation:	No Prep	Initial/Final:	50 ml / 50 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity as CaCO3	100.00	100.10	100	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-310.1

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[E1748	Laboratory ID:	B[E1748-BS3
Preparation:	No Prep	Initial/Final:	50 ml / 50 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity as CaCO3	100.00	99.340	99.3	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-310.1

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1708812	Instrument:	MET-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	B[E1747-BS3	Tiamo051717-101	05/17/17 16:11
Blank	B[E1747-BLK1	Tiamo051717-102	05/17/17 16:17
Duplicate	B[E1747-DUP1	Tiamo051717-104	05/17/17 16:27
27MW09_170511	1713059-04	Tiamo051717-116	05/17/17 17:24
27MW10_170511	1713059-05	Tiamo051717-118	05/17/17 17:31
LCS	B[E1748-BS3	Tiamo051717-121	05/17/17 17:43
Blank	B[E1748-BLK1	Tiamo051717-122	05/17/17 17:50
27MW13_170511	1713059-09	Tiamo051717-123	05/17/17 17:54
27MW13_170511	B[E1748-DUP1	Tiamo051717-124	05/17/17 18:00
27MW11_170511	1713059-06	Tiamo051717-125	05/17/17 18:06
27MW12_170511	1713059-08	Tiamo051717-127	05/17/17 18:13
27MW14_170511	1713059-10	Tiamo051717-128	05/17/17 18:20

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-310.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/17/17 08:20	6.00	14.00	05/17/17 17:24	6.00	14.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/17/17 08:20	6.00	14.00	05/17/17 17:31	6.00	14.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/17/17 08:20	6.00	14.00	05/17/17 18:06	6.00	14.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/17/17 08:20	6.00	14.00	05/17/17 18:13	6.00	14.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/17/17 08:20	6.00	14.00	05/17/17 17:54	6.00	14.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/17/17 08:20	6.00	14.00	05/17/17 18:20	6.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MET-1

Raw Data - Analytical Runs

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start	2017-05-17 08:27:11					Method .	BCL-CAL Cond	
		(20.7 ºC)							
EC Calibration		1407							
	Determination start	2017-05-17 08:31:40					Method .	BCL-Cond	
		(20.6 ºC)							
ICV1@COND		988.00							
	Determination start	2017-05-17 08:33:21					Method .	BCL-Cond	
		(20.4 ºC)							
B1-BS1@COND		305.60							
	Determination start	2017-05-17 08:34:56					Method .	BCL-CAL-pH-5 BUFFERS	
pH Calibration									
	Determination start	2017-05-17 08:51:15					Method .	BCL-pH	
			(22.0 ºC)						
B1-BS2@pH			7.06						
	Determination start	2017-05-17 08:54:41			Titer	0.076	Method .	BCL-Cond-pH-Alk	
		(19.7 ºC)	(21.5 ºC)						
B1-BS3@Alk	50	246.40	10.53	0.704	1.404	0.30	106.49	0.00	106.80
	Determination start	2017-05-17 09:00:49			Titer	0.076	Method .	BCL-Cond-pH-Alk-BLK1	
		(19.5 ºC)	(21.4 ºC)						
B1-BLK1@Alk	50	1.40	4.38	0.000	0.000	0.00	0.00	0.00	0.00
	Determination start	2017-05-17 09:05:36			Titer	0.076	Method .	BCL-Cond-pH-Alk	
		(14.0 ºC)	(19.5 ºC)						
1713414-01@A	25	1629.80	7.91	0.000	0.774	0.00	0.00	117.75	117.75
	Determination start	2017-05-17 09:10:56			Titer	0.076	Method .	BCL-Cond-pH-Alk	
		(14.4 ºC)	(19.4 ºC)						
1713414-01@A	25	1633.50	7.84	0.000	0.728	0.00	0.00	110.75	110.75
		. . . 2017-05-17 09:16:36							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start . . .				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(15.2 ºC)	(19.8 ºC)						
B1-DUP1	25	1634.80	7.83	0.000	0.728	0.00	0.00	110.75	110.75
	Determination start	2017-05-17 09:22:21			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.4 ºC)	(21.4 ºC)						
1712961-01@D	25	1335.80	7.35	0.000	3.096	0.00	0.00	471.00	471.00
	Determination start	2017-05-17 09:28:44			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.5 ºC)	(21.6 ºC)						
1712961-02@D	25	4264.00	7.69	0.000	5.518	0.00	0.00	839.47	839.47
	Determination start	2017-05-17 09:35:27			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.4 ºC)	(21.6 ºC)						
1712961-03@D	25	1571.10	7.88	0.000	3.412	0.00	0.00	519.08	519.08
	Determination start	2017-05-17 09:41:30			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.5 ºC)	(21.7 ºC)						
1712961-05@D	25	1489.40	7.91	0.000	3.252	0.00	0.00	494.74	494.74
	Determination start	2017-05-17 09:47:28			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.6 ºC)	(21.8 ºC)						
1712961-06@D	25	2070.40	7.40	0.000	4.342	0.00	0.00	660.56	660.56
	Determination start	2017-05-17 09:54:05			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.6 ºC)	(21.8 ºC)						
1712961-07@D	25	2074.90	7.43	0.000	4.356	0.00	0.00	662.69	662.69
	Determination start	2017-05-17 10:00:43			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.7 ºC)	(21.8 ºC)						
1712961-08@D	25	5555.30	7.83	0.000	3.542	0.00	0.00	538.85	538.85
	Determination start	2017-05-17 10:07:17			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.7 ºC)	(21.9 ºC)						
1712968-01@F	25	1224.60	7.33	0.000	2.266	0.00	0.00	344.73	344.73

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 10:13:02						Method.	BCL-Cond	
BLK1		(20.1 ºC) 3.30							
	Determination start 2017-05-17 10:14:44				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1712969-01@D	50	(19.6 ºC) 555.80	(21.6 ºC) 7.70	0.000	2.376	0.00	0.00	180.73	180.73
	Determination start 2017-05-17 10:21:01						Method.	BCL-Cond	
B2-BS1@COND		(19.2 ºC) 308.50							
	Determination start 2017-05-17 10:22:49						Method.	BCL-pH	
B2-BS2@PH			(21.7 ºC) 7.05						
	Determination start 2017-05-17 10:26:10				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B2-BS3@ALK	50	(19.6 ºC) 239.30	(21.5 ºC) 10.36	0.572	1.338	0.00	87.02	14.76	101.78
	Determination start 2017-05-17 10:32:39				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1	
B2-BLK1	50	(19.5 ºC) 1.60	(21.5 ºC) 4.41	0.000	0.000	0.00	0.00	0.00	0.00
	Determination start 2017-05-17 10:37:32				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1712969-01@D	50	(19.7 ºC) 461.30	(21.5 ºC) 8.08	0.000	2.512	0.00	0.00	191.08	191.08
	Determination start 2017-05-17 10:43:36				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B2-DUP1	50	(19.7 ºC) 463.30	(21.5 ºC) 7.99	0.000	2.476	0.00	0.00	188.34	188.34
	Determination start 2017-05-17 10:50:27				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1712969-03@D	25	(19.9 ºC) 1951.10	(21.8 ºC) 7.03	0.000	3.308	0.00	0.00	503.25	503.25

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 10:56:53				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.9 ºC)	(22.0 ºC)						
1712969-04@D	25	1057.70	7.85	0.000	2.660	0.00	0.00	404.67	404.67
	Determination start 2017-05-17 11:02:37				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.0 ºC)	(21.8 ºC)						
1712969-05@D	50	995.90	7.74	0.000	4.730	0.00	0.00	359.79	359.79
	Determination start 2017-05-17 11:09:08				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.2 ºC)	(21.9 ºC)						
1712969-06@D	50	811.70	7.98	0.000	4.054	0.00	0.00	308.37	308.37
	Determination start 2017-05-17 11:15:36				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.4 ºC)	(22.1 ºC)						
1712989-01@I	25	215491.50	8.44	0.510	6.274	0.00	155.18	799.30	954.48
	Determination start 2017-05-17 11:23:57						Method.	BCL-Cond	
		(20.8 ºC)							
BLK1		119.50							
	Determination start 2017-05-17 11:25:59				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.0 ºC)	(22.0 ºC)						
1712990-01@D	25	1434.40	8.49	0.056	0.884	0.00	17.04	117.45	134.49
	Determination start 2017-05-17 11:31:19						Method.	BCL-Cond	
		(20.3 ºC)							
BLK1		93.30							
	Determination start 2017-05-17 11:33:02				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.0 ºC)	(22.0 ºC)						
1712990-01@D	25	1430.20	8.24	0.000	0.844	0.00	0.00	128.40	128.40
	Determination start 2017-05-17 11:38:29						Method.	BCL-pH	
			(21.9 ºC)						
1713005-02@D			8.15						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 11:41:53						Method. BCL-Cond		
BLK1		(20.3 ºC) 93.50							
	Determination start 2017-05-17 11:43:30						Method. BCL-pH		
1713005-03@D			(21.9 ºC) 7.59						
	Determination start 2017-05-17 11:46:33						Method. BCL-Cond		
BLK1		(20.2 ºC) 91.50							
	Determination start 2017-05-17 11:48:10						Method. BCL-pH		
1713005-04@D			(21.8 ºC) 7.55						
	Determination start 2017-05-17 11:51:31						Method. BCL-Cond		
BLK1		(20.2 ºC) 95.50							
	Determination start 2017-05-17 11:53:09						Method. BCL-Cond		
B3-BS1@cond		(19.6 ºC) 307.90							
	Determination start 2017-05-17 11:54:45						Method. BCL-pH		
B3-BS2@PH			(21.8 ºC) 7.06						
	Determination start 2017-05-17 11:58:08				Titer	0.076	Method. BCL-Cond-pH-Alk		
B3-BS3@ALK	50	(19.6 ºC) 223.40	(21.5 ºC) 10.30	0.570	1.344	0.00	86.72	15.52	102.23
	Determination start 2017-05-17 12:04:15				Titer	0.076	Method. BCL-Cond-pH-Alk-BLK1.		
B3-BLK	50	(19.6 ºC) 2.10	(21.5 ºC) 4.46	0.000	0.000	0.00	0.00	0.00	0.00

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 12:09:02				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.8 ºC)	(21.6 ºC)						
1713005-10@J	50	646.10	8.14	0.000	2.132	0.00	0.00	162.17	162.17
	Determination start 2017-05-17 12:15:50				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.6 ºC)	(21.5 ºC)						
B3-DUP1	50	645.30	8.09	0.000	2.096	0.00	0.00	159.43	159.43
	Determination start 2017-05-17 12:22:34						Method.	BCL-Cond	
		(20.1 ºC)							
BLK1		91.90							
	Determination start 2017-05-17 12:24:11						Method.	BCL-pH	
			(21.8 ºC)						
1713005-05@D			7.64						
	Determination start 2017-05-17 12:27:40						Method.	BCL-Cond	
		(20.2 ºC)							
BLK1		166.50							
	Determination start 2017-05-17 12:29:36						Method.	BCL-pH	
			(21.8 ºC)						
1713005-06@D			7.80						
	Determination start 2017-05-17 12:33:07						Method.	BCL-Cond	
		(20.1 ºC)							
BLK1		111.10							
	Determination start 2017-05-17 12:34:43						Method.	BCL-pH	
			(21.8 ºC)						
1713005-07@D			7.71						
	Determination start 2017-05-17 12:38:14						Method.	BCL-Cond	
		(20.1 ºC)							
BLK1		110.80							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 12:39:57						Method. BCL-pH		
1713005-08@D			(21.9 ºC) 7.48						
	Determination start 2017-05-17 12:43:28						Method. BCL-Cond		
BLK1		(20.1 ºC) 99.50							
	Determination start 2017-05-17 12:45:06						Method. BCL-pH		
1713005-09@D			(21.9 ºC) 8.26						
	Determination start 2017-05-17 12:50:43						Method. BCL-Cond		
BLK1		(20.1 ºC) 95.70							
	Determination start 2017-05-17 12:52:20						Method. BCL-pH		
1713005-11@D			(22.0 ºC) 7.03						
	Determination start 2017-05-17 12:55:47						Method. BCL-Cond		
BLK1		(21.1 ºC) 19.80							
	Determination start 2017-05-17 12:57:43						Method. BCL-pH		
1713005-12@D			(21.8 ºC) 7.22						
	Determination start 2017-05-17 13:01:09						Method. BCL-Cond		
BLK1		(21.0 ºC) 11.20							
	Determination start 2017-05-17 13:02:51				Titer	0.076	Method. BCL-Cond-pH-Alk		
1713020-02@D	25	(19.5 ºC) 1203.20	(21.7 ºC) 8.37	0.024	0.268	0.00	7.30	33.47	40.77

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 13:08:01				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.6 ºC)	(21.7 ºC)						
1713020-03@D	25	1238.10	8.03	0.000	0.282	0.00	0.00	42.90	42.90
	Determination start 2017-05-17 13:12:51						Method.	BCL-Cond	
		(19.5 ºC)							
B4-BS1@COND		308.90							
	Determination start 2017-05-17 13:14:32						Method.	BCL-pH	
			(21.6 ºC)						
B4-BS2@PH			7.06						
	Determination start 2017-05-17 13:17:41				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(19.9 ºC)	(21.6 ºC)						
B4-BS3@ALK	50	235.30	10.34	0.526	1.306	0.00	80.02	19.32	99.34
	Determination start 2017-05-17 13:23:39				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1	
		(20.0 ºC)	(21.7 ºC)						
B4-BLK1	50	1.80	5.98	0.000	0.034	0.00	0.00	2.59	2.59
	Determination start 2017-05-17 13:29:10				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.3 ºC)	(21.8 ºC)						
1713021-01@A	50	738.10	7.74	0.000	2.540	0.00	0.00	193.21	193.21
	Determination start 2017-05-17 13:35:50				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.4 ºC)	(22.0 ºC)						
B4-DUP1	50	739.60	7.64	0.000	2.552	0.00	0.00	194.12	194.12
	Determination start 2017-05-17 13:41:53				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.4 ºC)	(22.2 ºC)						
1713023-01@D	25	1985.30	7.88	0.000	2.370	0.00	0.00	360.55	360.55
	Determination start 2017-05-17 13:47:24				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.2 ºC)	(22.1 ºC)						
1713023-13@D	25	1983.50	7.88	0.000	2.378	0.00	0.00	361.77	361.77

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 13:53:06				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.0 ºC)	(21.8 ºC)						
1713029-01@A	50	734.00	7.88	0.000	1.506	0.00	0.00	114.56	114.56
	Determination start 2017-05-17 13:59:27				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.0 ºC)	(22.0 ºC)						
1713036-01@D	25	1137.60	7.73	0.000	2.242	0.00	0.00	341.08	341.08
	Determination start 2017-05-17 14:04:54				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.1 ºC)	(22.1 ºC)						
1713036-02@D	25	1019.60	7.75	0.000	2.402	0.00	0.00	365.42	365.42
	Determination start 2017-05-17 14:10:43				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.1 ºC)	(22.1 ºC)						
1713036-03@D	25	1079.00	7.71	0.000	2.548	0.00	0.00	387.63	387.63
	Determination start 2017-05-17 14:16:26				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.3 ºC)	(22.0 ºC)						
1713037-01@A	50	506.30	7.60	0.000	1.914	0.00	0.00	145.59	145.59
	Determination start 2017-05-17 14:22:26				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.3 ºC)	(22.0 ºC)						
1713037-02@A	50	575.10	7.59	0.000	2.286	0.00	0.00	173.89	173.89
	Determination start 2017-05-17 14:28:21				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.4 ºC)	(22.0 ºC)						
1713037-03@A	50	518.30	7.56	0.000	1.758	0.00	0.00	133.72	133.72
	Determination start 2017-05-17 14:34:12						Method.	BCL-Cond	
		(20.5 ºC)							
B5-BS1@COND		312.20							
	Determination start 2017-05-17 14:35:54						Method.	BCL-pH	
			(22.3 ºC)						
B5-BS2@PH			7.05						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 14:39:17				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(20.5 ºC)	(22.1 ºC)						
B5-BS3@ALK	50	227.80	10.17	0.494	1.330	0.00	75.15	26.01	101.17
	Determination start 2017-05-17 14:45:29				Titer 0.076		Method. BCL-Cond-pH-Alk-BLK1.		
		(20.5 ºC)	(22.1 ºC)						
B5-BLK1	50	2.70	4.56	0.000	0.000	0.00	0.00	0.00	0.00
	Determination start 2017-05-17 14:50:22				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(20.6 ºC)	(22.1 ºC)						
17013037-04@A	50	519.10	7.59	0.000	1.796	0.00	0.00	136.62	136.62
	Determination start 2017-05-17 14:56:23				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(20.8 ºC)	(22.3 ºC)						
B5-DUP1	50	519.20	7.59	0.000	1.750	0.00	0.00	133.12	133.12
	Determination start 2017-05-17 15:02:14				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(21.0 ºC)	(22.6 ºC)						
1713042-02@A	25	1002.80	7.65	0.000	1.270	0.00	0.00	193.21	193.21
	Determination start 2017-05-17 15:07:24				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(21.0 ºC)	(22.6 ºC)						
1713043-01@A	25	1189.10	6.06	0.000	0.806	0.00	0.00	122.62	122.62
	Determination start 2017-05-17 15:12:57						Method. BCL-Cond		
		(21.2 ºC)							
BLK1		13.80							
	Determination start 2017-05-17 15:14:40				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(20.8 ºC)	(22.6 ºC)						
1713050-01@D	25	1085.90	7.68	0.000	3.480	0.00	0.00	529.42	529.42
	Determination start 2017-05-17 15:20:33				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(20.6 ºC)	(22.3 ºC)						
1713050-02@D	50	866.30	7.44	0.000	5.274	0.00	0.00	401.17	401.17

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 15:28:09				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.8 ºC)	(22.4 ºC)						
1713050-03@D	50	789.40	7.31	0.000	4.576	0.00	0.00	348.08	348.08
	Determination start 2017-05-17 15:34:49				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.8 ºC)	(22.5 ºC)						
1713050-04@D	50	834.00	7.36	0.000	4.906	0.00	0.00	373.18	373.18
	Determination start 2017-05-17 15:41:33				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.6 ºC)	(22.5 ºC)						
1713050-05@D	25	4459.00	7.46	0.000	12.646	0.00	0.00	1923.87	1923.87
	Determination start 2017-05-17 15:49:39						Method.	BCL-Cond	
		(21.5 ºC)							
BLK1		27.60							
	Determination start 2017-05-17 15:51:26				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.2 ºC)	(22.5 ºC)						
1713051-01@A	25	1038.70	8.12	0.000	2.190	0.00	0.00	333.17	333.17
	Determination start 2017-05-17 15:57:12						Method.	BCL-Cond	
		(21.4 ºC)							
BLK1		15.30							
	Determination start 2017-05-17 15:58:55				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.3 ºC)	(22.6 ºC)						
1713052-01@A	25	1105.30	7.97	0.000	2.372	0.00	0.00	360.86	360.86
	Determination start 2017-05-17 16:04:31						Method.	BCL-Cond	
		(21.5 ºC)							
BLK1		16.10							
	Determination start 2017-05-17 16:06:09						Method.	BCL-Cond	
		(20.6 ºC)							
B6-BS1@COND		310.10							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 16:07:43						Method.	BCL-pH	
B6-BS2@PH			(22.6 ºC) 7.05						
	Determination start 2017-05-17 16:11:06				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B6-BS3@ALK	50	(20.4 ºC) 224.00	(22.3 ºC) 10.21	0.494	1.316	0.00	75.15	24.95	100.10
	Determination start 2017-05-17 16:17:12				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1.	
B6-BLK1	50	(20.2 ºC) 2.20	(22.2 ºC) 4.43	0.000	0.000	0.00	0.00	0.00	0.00
	Determination start 2017-05-17 16:22:00				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1713054-01@B	25	(20.3 ºC) 1297.40	(22.4 ºC) 7.75	0.000	1.848	0.00	0.00	281.14	281.14
	Determination start 2017-05-17 16:27:42				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B6-DUP1	25	(20.6 ºC) 1301.70	(22.6 ºC) 7.76	0.000	1.802	0.00	0.00	274.14	274.14
	Determination start 2017-05-17 16:32:57				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1713054-02@A	25	(20.7 ºC) 1065.60	(22.7 ºC) 7.70	0.000	2.198	0.00	0.00	334.39	334.39
	Determination start 2017-05-17 16:38:48						Method.	BCL-Cond	
BLK1		(22.4 ºC) 4.90							
	Determination start 2017-05-17 16:40:33				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1713054-03@A	50	(21.2 ºC) 954.60	(22.7 ºC) 7.82	0.000	5.682	0.00	0.00	432.21	432.21
	Determination start 2017-05-17 16:47:27				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1713054-04@A	25	(21.0 ºC) 1041.50	(22.9 ºC) 7.76	0.000	2.080	0.00	0.00	316.44	316.44

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 16:52:53				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.9 ºC)	(22.8 ºC)						
1713054-05@A	25	1872.30	7.82	0.000	2.056	0.00	0.00	312.78	312.78
	Determination start 2017-05-17 16:58:29				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.8 ºC)	(22.8 ºC)						
1713057-01@A	25	1509.20	9.97	0.960	2.784	0.00	292.09	131.44	423.54
	Determination start 2017-05-17 17:04:49						Method.	BCL-Cond	
		(22.1 ºC)							
BLK1		7.20							
	Determination start 2017-05-17 17:06:41				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.0 ºC)	(22.9 ºC)						
1713057-02@A	25	1740.80	9.33	0.608	3.322	0.00	184.99	320.39	505.38
	Determination start 2017-05-17 17:13:46						Method.	BCL-Cond	
		(21.9 ºC)							
BLK1		8.50							
	Determination start 2017-05-17 17:15:38				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.9 ºC)	(23.0 ºC)						
1713057-03@A	25	1243.50	10.14	1.088	2.942	0.00	331.04	116.53	447.57
	Determination start 2017-05-17 17:22:23						Method.	BCL-Cond	
		(21.9 ºC)							
BLK1		5.10							
	Determination start 2017-05-17 17:24:18				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.1 ºC)	(23.2 ºC)						
1713059-04@G	25	7289.40	8.03	0.000	2.504	0.00	0.00	380.94	380.94
	Determination start 2017-05-17 17:29:59						Method.	BCL-Cond	
		(21.9 ºC)							
BLK1		12.70							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 17:31:55				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.1 ºC)	(22.9 ºC)						
1713059-05@G	50	472.40	8.16	0.000	2.286	0.00	0.00	173.89	173.89
	Determination start 2017-05-17 17:38:42						Method.	BCL-Cond	
		(20.9 ºC)							
B7-BS1@COND		403.80							
	Determination start 2017-05-17 17:40:28						Method.	BCL-pH	
			(23.2 ºC)						
B7-BS2@PH			7.05						
	Determination start 2017-05-17 17:43:50				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.4 ºC)	(23.1 ºC)						
B7-BS3@ALK	50	223.40	10.20	0.494	1.306	0.00	75.15	24.19	99.34
	Determination start 2017-05-17 17:50:04				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1	
		(20.8 ºC)	(22.8 ºC)						
B7-BLK1	50	1.80	4.48	0.000	0.000	0.00	0.00	0.00	0.00
	Determination start 2017-05-17 17:54:55				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.0 ºC)	(23.1 ºC)						
1713059-09@G	25	3709.70	8.28	0.000	1.660	0.00	0.00	252.54	252.54
	Determination start 2017-05-17 18:00:24				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.0 ºC)	(23.1 ºC)						
B7-DUP1	25	3722.60	8.27	0.000	1.624	0.00	0.00	247.06	247.06
	Determination start 2017-05-17 18:06:08				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.1 ºC)	(23.2 ºC)						
1713059-06@G	25	1326.40	9.74	0.560	1.926	0.00	170.39	122.62	293.01
	Determination start 2017-05-17 18:12:04						Method.	BCL-Cond	
		(21.8 ºC)							
BLK1		6.10							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 18:13:54				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.3 ºC)	(23.0 ºC)						
1713059-08@G	50	393.30	8.00	0.000	1.312	0.00	0.00	99.80	99.80
	Determination start 2017-05-17 18:20:12				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.2 ºC)	(23.0 ºC)						
1713059-10@G	50	713.30	8.45	0.072	2.736	0.00	10.95	197.16	208.12
	Determination start 2017-05-17 18:27:28						Method.	BCL-Cond	
		(21.8 ºC)							
BLK1		4.30							
	Determination start 2017-05-17 18:29:06						Method.	BCL-pH	
			(23.2 ºC)						
17013065-02@D			7.68						
	Determination start 2017-05-17 18:32:28						Method.	BCL-Cond	
		(21.9 ºC)							
BLK1		22.40							
	Determination start 2017-05-17 18:34:23						Method.	BCL-pH	
			(23.1 ºC)						
17013065-03@D			7.21						
	Determination start 2017-05-17 18:37:47						Method.	BCL-Cond	
		(21.9 ºC)							
BLK1		11.00							
	Determination start 2017-05-17 18:39:40						Method.	BCL-pH	
			(23.1 ºC)						
17013065-04@D			7.22						
	Determination start 2017-05-17 18:43:05						Method.	BCL-Cond	
		(21.9 ºC)							
BLK1		11.10							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
17013065-05@D	Determination start	2017-05-17 18:44:57 (23.0 ºC)	7.46				Method.	BCL-pH	
BLK1	Determination start	2017-05-17 18:48:19 (21.9 ºC)	7.10				Method.	BCL-Cond	
17013065-06@D	Determination start	2017-05-17 18:50:06 (23.1 ºC)	7.39				Method.	BCL-pH	
17013065-07@D	Determination start	2017-05-17 18:53:27 (23.0 ºC)	7.74				Method.	BCL-pH	
BLK1	Determination start	2017-05-17 18:56:48 (21.9 ºC)	27.40				Method.	BCL-Cond	
B8-BS2@PH	Determination start	2017-05-17 18:58:44 (23.1 ºC)	7.06				Method.	BCL-pH	
1713065-08@D	Determination start	2017-05-17 19:01:55 (23.0 ºC)	7.52				Method.	BCL-pH	
B8-DUP1	Determination start	2017-05-17 19:05:16 (23.0 ºC)	7.59				Method.	BCL-pH	
BLK1	Determination start	2017-05-17 19:08:43 (21.9 ºC)	8.10				Method.	BCL-Cond	

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start	2017-05-17 19:10:24					Method.	BCL-pH	
1713065-09@D		(23.0 ºC)	7.82						
	Determination start	2017-05-17 19:13:42					Method.	BCL-Cond	
BLK1		(21.9 ºC)	22.10						
	Determination start	2017-05-17 19:15:38					Method.	BCL-pH	
1713065-10@D		(22.9 ºC)	7.56						
	Determination start	2017-05-17 19:19:10					Method.	BCL-Cond	
BLK1		(21.9 ºC)	8.00						
	Determination start	2017-05-17 19:20:47					Method.	BCL-pH	
1713065-11@D		(23.1 ºC)	7.85						
	Determination start	2017-05-17 19:24:07					Method.	BCL-Cond	
BLK1		(21.9 ºC)	23.60						
	Determination start	2017-05-17 19:26:04					Method.	BCL-pH	
1713065-12@D		(23.0 ºC)	7.62						
	Determination start	2017-05-17 19:29:36					Method.	BCL-Cond	
BLK1		(21.9 ºC)	9.30						
	Determination start	2017-05-17 19:31:15					Method.	BCL-pH	
1713065-13@D		(23.1 ºC)	7.57						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 19:34:46						Method. BCL-Cond		
BLK1		(21.9 ºC) 24.20							
	Determination start 2017-05-17 19:36:42						Method. BCL-pH		
1713065-14@D		(23.2 ºC) 7.21							
	Determination start 2017-05-17 19:40:11						Method. BCL-Cond		
BLK1		(21.8 ºC) 14.80							
	Determination start 2017-05-17 19:41:56						Method. BCL-pH		
1713065-15@D		(23.1 ºC) 7.37							
	Determination start 2017-05-17 19:45:26						Method. BCL-Cond		
BLK1		(21.8 ºC) 10.80							
	Determination start 2017-05-17 19:47:03						Method. BCL-pH		
1713065-16@D		(23.1 ºC) 7.72							
	Determination start 2017-05-17 19:50:30						Method. BCL-Cond		
BLK1		(21.8 ºC) 11.10							
	Determination start 2017-05-17 19:52:07						Method. BCL-pH		
1713065-17@D		(23.1 ºC) 7.61							
	Determination start 2017-05-17 19:55:32						Method. BCL-Cond		
BLK1		(21.8 ºC) 18.00							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 19:57:23						Method. BCL-Cond		
B9-BS1@COND		(21.5 ºC) 312.90							
	Determination start 2017-05-17 19:59:03						Method. BCL-pH		
B9-BS2@PH			(23.3 ºC) 7.05						
	Determination start 2017-05-17 20:02:29				Titer 0.076		Method. BCL-Cond-pH-Alk		
B9-BS3@ALK	50	(21.4 ºC) 230.30	(23.1 ºC) 10.28	0.634	1.448	0.00	96.45	13.69	110.14
	Determination start 2017-05-17 20:08:33				Titer 0.076		Method. BCL-Cond-pH-Alk-BLK1.		
B9-BLK1	50	(21.1 ºC) 2.90	(23.0 ºC) 4.46	0.000	0.000	0.00	0.00	0.00	0.00
	Determination start 2017-05-17 20:13:24				Titer 0.076		Method. BCL-Cond-pH-Alk		
1712074-01@D	25	(20.5 ºC) 1038.60	(22.9 ºC) 8.08	0.000	1.482	0.00	0.00	225.46	225.46
	Determination start 2017-05-17 20:18:35				Titer 0.076		Method. BCL-Cond-pH-Alk		
B9-DUP1	25	(20.8 ºC) 1041.80	(23.0 ºC) 7.97	0.000	1.440	0.00	0.00	219.07	219.07
	Determination start 2017-05-17 20:24:05						Method. BCL-pH		
1713065-18@D			(23.0 ºC) 7.43						
	Determination start 2017-05-17 20:27:28						Method. BCL-Cond		
BLK1		(21.9 ºC) 18.80							
	Determination start 2017-05-17 20:29:25						Method. BCL-pH		
1713065-19@D			(23.0 ºC) 8.28						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-05-17 20:32:36						Method. BCL-Cond		
BLK1		(21.9 ºC) 14.20							
	Determination start 2017-05-17 20:34:26						Method. BCL-pH		
1713065-20@D			(22.9 ºC) 7.85						
	Determination start 2017-05-17 20:37:31						Method. BCL-Cond		
BLK1		(21.9 ºC) 48.80							
	Determination start 2017-05-17 20:39:27						Method. BCL-pH		
1713065-21@D			(22.9 ºC) 7.70						
	Determination start 2017-05-17 20:42:33						Method. BCL-Cond		
BLK1		(21.8 ºC) 35.80							
	Determination start 2017-05-17 20:44:30						Method. BCL-pH		
1713065-22@D			(22.8 ºC) 7.83						
	Determination start 2017-05-17 20:47:54						Method. BCL-Cond		
BLK1		(21.8 ºC) 17.80							
	Determination start 2017-05-17 20:49:49				Titer	0.076	Method. BCL-Cond-pH-Alk		
1713073-01@A	50	(20.9 ºC) 914.30	(22.7 ºC) 7.44	0.000	2.762	0.00	0.00	210.10	210.10
	Determination start 2017-05-17 20:56:06				Titer	0.076	Method. BCL-Cond-pH-Alk		
1713073-02@A	50	(21.0 ºC) 823.80	(22.8 ºC) 7.93	0.000	2.028	0.00	0.00	154.26	154.26

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-05-17 21:02:48				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.8 ºC)	(22.8 ºC)						
1713074-02@A	50	634.30	8.25	0.000	3.870	0.00	0.00	294.38	294.38
	Determination start 2017-05-17 21:08:57				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.7 ºC)	(22.9 ºC)						
1713074-03@A	25	2365.50	7.21	0.000	4.952	0.00	0.00	753.36	753.36
	Determination start 2017-05-17 21:15:16						Method.	BCL-Cond	
		(21.7 ºC)							
BLK1		18.10							
	Determination start 2017-05-17 21:16:54						Method.	BCL-Cond	
		(21.2 ºC)							
10000		9898.60							
	Determination start 2017-05-17 21:19:00						Method.	BCL-Cond	
		(21.2 ºC)							
303		411.30							
	Determination start 2017-05-17 21:20:44						Method.	BCL-Cond	
		(21.3 ºC)							
303		314.80							
	Determination start 2017-05-17 21:22:24						Method.	BCL-pH	
			(23.3 ºC)						
7.00			7.05						
	Determination start 2017-05-17 21:25:32						Method.	BCL-pH	
			(23.1 ºC)						
7.00			7.06						

Raw Data - Batch Information

PREPARATION BENCH SHEET

B[E1747

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water

Prepared using: Wet Chem - No Prep

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1713054-01 A	i150.1w pH	5/17/2017 8:20AM	RML	50	50					
1713054-01 A	i310.1w CO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-01 A	i310.1w HCO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-01 A	i310.1w Tot Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-01 A	ISM2510Bw EC	5/17/2017 8:20AM	RML	50	50					
1713054-01 A	i120.1w EC	5/17/2017 8:20AM	RML	50	50					
1713054-02 A	i150.1w pH	5/17/2017 8:20AM	RML	50	50					
1713054-02 A	i310.1w CO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-02 A	i120.1w EC	5/17/2017 8:20AM	RML	50	50					
1713054-02 A	i310.1w HCO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-03 A	i120.1w EC	5/17/2017 8:20AM	RML	50	50					
1713054-03 A	i150.1w pH	5/17/2017 8:20AM	RML	50	50					
1713054-03 A	i310.1w CO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-03 A	i310.1w HCO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-04 A	i310.1w HCO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-04 A	i120.1w EC	5/17/2017 8:20AM	RML	50	50					
1713054-04 A	i150.1w pH	5/17/2017 8:20AM	RML	50	50					
1713054-04 A	i310.1w CO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-05 A	i120.1w EC	5/17/2017 8:20AM	RML	50	50					
1713054-05 A	i150.1w pH	5/17/2017 8:20AM	RML	50	50					
1713054-05 A	i310.1w CO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713054-05 A	i310.1w HCO3 Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713057-01 A	ISM2510Bw EC	5/17/2017 8:20AM	RML	50	50					
1713057-02 A	ISM2510Bw EC	5/17/2017 8:20AM	RML	50	50					
1713057-03 A	ISM2510Bw EC	5/17/2017 8:20AM	RML	50	50					

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1747

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1713059-04 G	i310.1w Tot Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713059-05 G	i310.1w Tot Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
B[E1747-BLK1	QC	5/17/2017 8:20AM	RML	50	50					
B[E1747-BS1	QC	5/17/2017 8:20AM	RML	50	50	6K28023		50000		
B[E1747-BS2	QC	5/17/2017 8:20AM	RML	50	50	6L08060		50000		
B[E1747-BS3	QC	5/17/2017 8:20AM	RML	50	50	6K28094		5000		
B[E1747-DUP1	QC	5/17/2017 8:20AM	RML	50	50		1713054-01			

Spike Mixes	Description	Solvent	Prepared	Expires
6K28023	EC LCSW WORKING	H2O (DI)	11/15/2016 by Rosa Ledesma	6/15/2017
6K28094	ALK NA2CO3	H2O	1/30/2017 by Rosa Ledesma	7/3/2017
6L08060	pH 7 LCSW Check	H20	12/8/2016 by ** Vendor **	12/31/2018

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1748

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1713059-06 G	i310.1w Tot Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713059-08 G	i310.1w Tot Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713059-09 G	i310.1w Tot Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713059-09 G	i9040w pH	5/17/2017 8:20AM		50	50					
1713059-10 G	i310.1w Tot Alk as CaCO3	5/17/2017 8:20AM	RML	50	50					
1713065-02 D	i9040w pH	5/17/2017 8:20AM	RML	50	50					
1713065-03 D	i9040w pH	5/17/2017 8:20AM	RML	50	50					
1713065-04 D	i9040w pH	5/17/2017 8:20AM	RML	50	50					
1713065-05 D	i9040w pH	5/17/2017 8:20AM	RML	50	50					
1713065-06 D	i9040w pH	5/17/2017 8:20AM	RML	50	50					
1713065-07 D	i9040w pH	5/17/2017 8:20AM	RML	50	50					
B[E1748-BLK1	QC	5/17/2017 8:20AM	RML	50	50					
B[E1748-BS2	QC	5/17/2017 8:20AM	RML	50	50	6L08060		50000		
B[E1748-BS3	QC	5/17/2017 8:20AM	RML	50	50	6K28094		5000		
B[E1748-DUP1	QC	5/17/2017 8:20AM	RML	50	50		1713059-09			

Spike Mixes	Description	Solvent	Prepared	Expires
6K28094	ALK NA2CO3	H2O	1/30/2017 by Rosa Ledesma	7/3/2017
6L08060	pH 7 LCSW Check	H20	12/8/2016 by ** Vendor **	12/31/2018

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1708812

Instrument: MET-1
Calibration ID:
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708812-ICV1	QC		1		7B07020		
B[E1742-BS1	QC		2				
B[E1742-BS2	QC		3				
B[E1742-BS3	QC		4				
B[E1742-BLK1	QC		5				
1713414-01	i310.1w CO3	A	6				BatchQC
1713414-01	i310.1w HCO3	A	6				BatchQC
1713414-01	i310.1w OH	A	6				BatchQC
1713414-01	i9040w pH	A	6				BatchQC
1713414-01	iSM2320Bw CO3	A	6				BatchQC
1713414-01	iSM2320Bw HCO3	A	6				
1713414-01	iSM2320Bw Tot Alk as CaCO3	A	6				
1713414-01	ISM2510Bw EC	A	6				BatchQC
1713414-01	iSM4500HBw pH	A	6				
B[E1742-DUP1	QC		7				
1712961-01	iSM2320Bw CO3	D	8				
1712961-01	iSM2320Bw HCO3	D	8				
1712961-01	iSM2320Bw Tot Alk as CaCO3	D	8				
1712961-02	iSM2320Bw CO3	D	9				
1712961-02	iSM2320Bw HCO3	D	9				
1712961-02	iSM2320Bw Tot Alk as CaCO3	D	9				
1712961-03	iSM2320Bw CO3	D	10				
1712961-03	iSM2320Bw HCO3	D	10				
1712961-03	iSM2320Bw Tot Alk as CaCO3	D	10				
1712961-05	iSM2320Bw CO3	D	11				
1712961-05	iSM2320Bw HCO3	D	11				
1712961-05	iSM2320Bw Tot Alk as CaCO3	D	11				
1712961-06	iSM2320Bw CO3	D	12				
1712961-06	iSM2320Bw HCO3	D	12				
1712961-06	iSM2320Bw Tot Alk as CaCO3	D	12				
1712961-07	iSM2320Bw CO3	D	13				
1712961-07	iSM2320Bw HCO3	D	13				
1712961-07	iSM2320Bw Tot Alk as CaCO3	D	13				
1712961-08	iSM2320Bw CO3	D	14				
1712961-08	iSM2320Bw HCO3	D	14				
1712961-08	iSM2320Bw Tot Alk as CaCO3	D	14				
1712968-01	i9040w pH	F	15				
1712968-01	iSM2320Bw Tot Alk as CaCO3	F	15				
1712968-01	ISM2510Bw EC	F	15				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1708812

Instrument: MET-1
Calibration ID:
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1712969-01	i310.1w CO3	D	16				
1712969-01	i310.1w HCO3	D	16				
1712969-01	i310.1w OH	D	16				
B[E1743-BS1	QC		17				
B[E1743-BS2	QC		18				
B[E1743-BS3	QC		19				
B[E1743-BLK1	QC		20				
1712969-02	i150.1w pH	D	21				BatchQC
1712969-02	i310.1w CO3	D	21				
1712969-02	i310.1w HCO3	D	21				
1712969-02	i310.1w OH	D	21				
1712969-02	i9040w pH	D	21				BatchQC
1712969-02	iSM2320Bw CO3	D	21				BatchQC
1712969-02	iSM2320Bw CO3 Alk as CaCO3	D	21				BatchQC
1712969-02	iSM2320Bw HCO3	D	21				BatchQC
1712969-02	iSM2320Bw HCO3 Alk as CaC(	D	21				BatchQC
1712969-02	iSM2320Bw OH	D	21				BatchQC
1712969-02	iSM2320Bw OH Alk as CaCO3	D	21				BatchQC
1712969-02	iSM2320Bw Tot Alk as CaCO3	D	21				BatchQC
1712969-02	ISM2510Bw EC	D	21				BatchQC
B[E1743-DUP1	QC		22				
1712969-03	i310.1w CO3	D	23				
1712969-03	i310.1w HCO3	D	23				
1712969-03	i310.1w OH	D	23				
1712969-04	i310.1w CO3	D	24				
1712969-04	i310.1w HCO3	D	24				
1712969-04	i310.1w OH	D	24				
1712969-05	i310.1w CO3	D	25				
1712969-05	i310.1w HCO3	D	25				
1712969-05	i310.1w OH	D	25				
1712969-06	i310.1w CO3	D	26				
1712969-06	i310.1w HCO3	D	26				
1712969-06	i310.1w OH	D	26				
1712989-01	i150.1w pH	I	27				
1712989-01	iSM2320Bw CO3 Alk as CaCO3	I	27				
1712989-01	iSM2320Bw HCO3 Alk as CaC(	I	27				
1712989-01	iSM2320Bw OH Alk as CaCO3	I	27				
1712989-01	iSM2320Bw Tot Alk as CaCO3	I	27				
1712990-01	i150.1w pH	D	28				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1708812

Instrument: MET-1
Calibration ID:
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1712990-01	iSM2320Bw CO3	D	28				
1712990-01	iSM2320Bw HCO3	D	28				
1712990-01	iSM2320Bw OH	D	28				
1712990-01	ISM2510Bw EC	D	28				
1713005-02	i9040w pH	D	29				
1713005-03	i9040w pH	D	30				
1713005-04	i9040w pH	D	31				
B[E1744-BS2	QC		32				
B[E1744-BS3	QC		33				
B[E1744-BLK1	QC		34				
1713005-10	i310.1w CO3	J	35				BatchQC
1713005-10	i9040w pH	J	35				
B[E1744-DUP1	QC		36				
1713005-05	i9040w pH	D	37				
1713005-06	i9040w pH	D	38				
1713005-07	i9040w pH	D	39				
1713005-08	i9040w pH	D	40				
1713005-09	i9040w pH	D	41				
1713005-11	i9040w pH	D	42				
1713005-12	i9040w pH	D	43				
1713020-02	i310.1w CO3	D	44				
1713020-03	i310.1w CO3	D	45				
B[E1745-BS1	QC		46				
B[E1745-BS2	QC		47				
B[E1745-BS3	QC		48				
B[E1745-BLK1	QC		49				
1713021-01	i120.1w EC	A	50				
1713021-01	i150.1w pH	A	50				
1713021-01	i310.1w CO3	A	50				BatchQC
1713021-01	i310.1w HCO3	A	50				BatchQC
1713021-01	i310.1w Tot Alk as CaCO3	A	50				BatchQC
1713021-01	iSM2320Bw CO3 Alk as CaCO3	A	50				BatchQC
1713021-01	iSM2320Bw HCO3	A	50				BatchQC
1713021-01	iSM2320Bw HCO3 Alk as CaC(	A	50				BatchQC
1713021-01	iSM2320Bw Tot Alk as CaCO3	A	50				
1713021-01	ISM2510Bw EC	A	50				BatchQC
1713021-01	iSM4500HBw pH	A	50				BatchQC
B[E1745-DUP1	QC		51				
1713023-01	i310.1w CO3	D	52				

ANALYSIS SEQUENCE

1708812

Instrument: MET-1
Calibration ID:
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713023-01	i310.1w HCO3	D	52				
1713023-01	i310.1w Tot Alk as CaCO3	D	52				
1713023-13	i310.1w CO3	D	53				
1713023-13	i310.1w HCO3	D	53				
1713023-13	i310.1w Tot Alk as CaCO3	D	53				
1713029-01	ISM2510Bw EC	A	54				
1713029-01	iSM4500HBw pH	A	54				
1713036-01	iSM2320Bw CO3 Alk as CaCO3	D	55				
1713036-01	iSM2320Bw HCO3 Alk as CaC(	D	55				
1713036-02	iSM2320Bw CO3 Alk as CaCO3	D	56				
1713036-02	iSM2320Bw HCO3 Alk as CaC(	D	56				
1713036-03	iSM2320Bw CO3 Alk as CaCO3	D	57				
1713036-03	iSM2320Bw HCO3 Alk as CaC(	D	57				
1713037-01	iSM2320Bw HCO3	A	58				
1713037-02	iSM2320Bw HCO3	A	59				
1713037-03	iSM2320Bw HCO3	A	60				
B[E1746-BS1	QC		61				
B[E1746-BS2	QC		62				
B[E1746-BS3	QC		63				
B[E1746-BLK1	QC		64				
1713037-04	i120.1w EC	A	65				BatchQC
1713037-04	i150.1w pH	A	65				BatchQC
1713037-04	i310.1w CO3 Alk as CaCO3	A	65				BatchQC
1713037-04	i310.1w HCO3 Alk as CaCO3	A	65				BatchQC
1713037-04	iSM2320Bw CO3 Alk as CaCO3	A	65				BatchQC
1713037-04	iSM2320Bw HCO3	A	65				
1713037-04	iSM2320Bw HCO3 Alk as CaC(	A	65				BatchQC
1713037-04	ISM2510Bw EC	A	65				BatchQC
B[E1746-DUP1	QC		66				
1713042-02	ISM2510Bw EC	A	67				
1713043-01	i120.1w EC	A	68				
1713050-01	iSM2320Bw CO3 Alk as CaCO3	D	69				
1713050-01	iSM2320Bw HCO3 Alk as CaC(	D	69				
1713050-02	iSM2320Bw CO3 Alk as CaCO3	D	70				
1713050-02	iSM2320Bw HCO3 Alk as CaC(	D	70				
1713050-03	iSM2320Bw CO3 Alk as CaCO3	D	71				
1713050-03	iSM2320Bw HCO3 Alk as CaC(	D	71				
1713050-04	iSM2320Bw CO3 Alk as CaCO3	D	72				
1713050-04	iSM2320Bw HCO3 Alk as CaC(	D	72				

ANALYSIS SEQUENCE

1708812

Instrument: MET-1
Calibration ID:
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713050-05	iSM2320Bw CO3 Alk as CaCO3	D	73				
1713050-05	iSM2320Bw HCO3 Alk as CaC(	D	73				
1713051-01	i120.1w EC	A	74				
1713052-01	i120.1w EC	A	75				
1713052-01	i150.1w pH	A	75				
1713052-01	i310.1w CO3 Alk as CaCO3	A	75				
1713052-01	i310.1w HCO3 Alk as CaCO3	A	75				
B[E1747-BS1	QC		76				
B[E1747-BS2	QC		77				
B[E1747-BS3	QC		78				
B[E1747-BLK1	QC		79				
1713054-01	i120.1w EC	A	80				
1713054-01	i150.1w pH	A	80				
1713054-01	i310.1w CO3 Alk as CaCO3	A	80				
1713054-01	i310.1w HCO3 Alk as CaCO3	A	80				
1713054-01	i310.1w Tot Alk as CaCO3	A	80				BatchQC
1713054-01	ISM2510Bw EC	A	80				BatchQC
B[E1747-DUP1	QC		81				
1713054-02	i120.1w EC	A	82				
1713054-02	i150.1w pH	A	82				
1713054-02	i310.1w CO3 Alk as CaCO3	A	82				
1713054-02	i310.1w HCO3 Alk as CaCO3	A	82				
1713054-03	i120.1w EC	A	83				
1713054-03	i150.1w pH	A	83				
1713054-03	i310.1w CO3 Alk as CaCO3	A	83				
1713054-03	i310.1w HCO3 Alk as CaCO3	A	83				
1713054-04	i120.1w EC	A	84				
1713054-04	i150.1w pH	A	84				
1713054-04	i310.1w CO3 Alk as CaCO3	A	84				
1713054-04	i310.1w HCO3 Alk as CaCO3	A	84				
1713054-05	i120.1w EC	A	85				
1713054-05	i150.1w pH	A	85				
1713054-05	i310.1w CO3 Alk as CaCO3	A	85				
1713054-05	i310.1w HCO3 Alk as CaCO3	A	85				
1713057-01	ISM2510Bw EC	A	86				
1713057-02	ISM2510Bw EC	A	87				
1713057-03	ISM2510Bw EC	A	88				
1713059-04	i310.1w Tot Alk as CaCO3	G	89				
1713059-05	i310.1w Tot Alk as CaCO3	G	90				

ANALYSIS SEQUENCE

1708812

Instrument: MET-1
Calibration ID:
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[E1748-BS2	QC		91				
B[E1748-BS3	QC		92				
B[E1748-BLK1	QC		93				
1713059-09	i310.1w Tot Alk as CaCO3	G	94				
1713059-09	i9040w pH	G	94				BatchQC
B[E1748-DUP1	QC		95				
1713059-06	i310.1w Tot Alk as CaCO3	G	96				
1713059-08	i310.1w Tot Alk as CaCO3	G	97				
1713059-10	i310.1w Tot Alk as CaCO3	G	98				
1713065-02	i9040w pH	D	99				
1713065-03	i9040w pH	D	100				
1713065-04	i9040w pH	D	101				
1713065-05	i9040w pH	D	102				
1713065-06	i9040w pH	D	103				
1713065-07	i9040w pH	D	104				
B[E1749-BS2	QC		105				
1713065-08	i9040w pH	D	106				
B[E1749-DUP1	QC		107				
1713065-09	i9040w pH	D	108				
1713065-10	i9040w pH	D	109				
1713065-11	i9040w pH	D	110				
1713065-12	i9040w pH	D	111				
1713065-13	i9040w pH	D	112				
1713065-14	i9040w pH	D	113				
1713065-15	i9040w pH	D	114				
1713065-16	i9040w pH	D	115				
1713065-17	i9040w pH	D	116				
B[E1750-BS1	QC		117				
B[E1750-BS2	QC		118				
B[E1750-BS3	QC		119				
B[E1750-BLK1	QC		120				
1713074-01	i120.1w EC	D	121				BatchQC
1713074-01	i310.1w CO3	D	121				
1713074-01	i310.1w HCO3	D	121				
1713074-01	i310.1w OH	D	121				
1713074-01	i9040w pH	D	121				BatchQC
B[E1750-DUP1	QC		122				
1713065-18	i9040w pH	D	123				
1713065-19	i9040w pH	D	124				

ANALYSIS SEQUENCE

1708812

Instrument: MET-1
Calibration ID:
Sequence Date: 05/17/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713065-20	i9040w pH	D	125				
1713065-21	i9040w pH	D	126				
1713065-22	i9040w pH	D	127				
1713073-01	i120.1w EC	A	128				
1713073-02	i120.1w EC	A	129				
1713074-02	i310.1w CO3	D	130				
1713074-02	i310.1w HCO3	D	130				
1713074-02	i310.1w OH	D	130				
1713074-03	i310.1w CO3	D	131				
1713074-03	i310.1w HCO3	D	131				
1713074-03	i310.1w OH	D	131				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **1713059**
Class: **WET**
Method: **EPA-353.2**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-353.2

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27MW09_170511	1713059-04
27MW10_170511	1713059-05
27MW11_170511	1713059-06
27MW12_170511	1713059-08
27MW13_170511	1713059-09
27MW14_170511	1713059-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 06-13-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-353.2

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: KONE-1

Analyte	DL	LOD	LOQ	Units
Nitrite as N	0.01	0.03	0.05	mg/L
Nitrite as NO2	0.04	0.1	0.17	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04
File ID: 170512 0835 NO2-029
Sampled: 05/11/17 09:38
Prepared: 05/12/17 08:35
Analyzed: 05/12/17 09:19
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1679
Sequence: 1708644
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-05
File ID: 170512 0835 NO2-033
Sampled: 05/11/17 11:34
Prepared: 05/12/17 08:35
Analyzed: 05/12/17 09:19
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1679
Sequence: 1708644
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

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San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW11_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-06
File ID: 170512 0835 NO2-034
Sampled: 05/11/17 08:20
Prepared: 05/12/17 08:35
Analyzed: 05/12/17 09:19
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1679
Sequence: 1708644
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.046	0.010	0.030	0.050	1	J	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW12_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-08
File ID: 170512 0835 NO2-042
Sampled: 05/11/17 09:37
Prepared: 05/12/17 08:35
Analyzed: 05/12/17 09:29
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1679
Sequence: 1708644
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.050	0.010	0.030	0.050	1		EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW13_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-09
File ID: 170512 0835 NO2-036
Sampled: 05/11/17 11:05
Prepared: 05/12/17 08:35
Analyzed: 05/12/17 09:19
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1679
Sequence: 1708644
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW14_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-10
File ID: 170512 0835 NO2-039
Sampled: 05/11/17 08:15
Prepared: 05/12/17 08:35
Analyzed: 05/12/17 09:21
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[E1679
Sequence: 1708644
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.29	0.010	0.030	0.050	1		EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1679
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW09_170511	1713059-04	170512 0835 NO2-029	05/12/17 08:35	
27MW10_170511	1713059-05	170512 0835 NO2-033	05/12/17 08:35	
27MW11_170511	1713059-06	170512 0835 NO2-034	05/12/17 08:35	
27MW12_170511	1713059-08	170512 0835 NO2-042	05/12/17 08:35	
27MW13_170511	1713059-09	170512 0835 NO2-036	05/12/17 08:35	
27MW14_170511	1713059-10	170512 0835 NO2-039	05/12/17 08:35	
Blank	B[E1679-BLK1	170512 0835 NO2-028	05/12/17 08:35	
LCS	B[E1679-BS1	170512 0835 NO2-027	05/12/17 08:35	
27MW09_170511	B[E1679-DUP1	170512 0835 NO2-030	05/12/17 08:35	
27MW09_170511	B[E1679-MS1	170512 0835 NO2-031	05/12/17 08:35	
27MW09_170511	B[E1679-MSD1	170512 0835 NO2-032	05/12/17 08:35	

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San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-353.2

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1679-BLK1	File ID:	170512 0835 NO2-028
Prepared:	05/12/17 08:35	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	05/12/17 09:19	Instrument:	KONE-1		
Batch:	B[E1679	Sequence:	1708644	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	U

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9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

27MW09_170511

DUPLICATES
EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[E1679
Preparation: No Prep
Source Sample Name: 27MW09_170511

SDG: 1713059
Project: Alameda
Laboratory ID: B[E1679-DUP1
Lab Source ID: 1713059-04
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Nitrite as N	10	0.0050450		ND				EPA-353.2
Nitrite as NO2	10	0.016570		ND				EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-353.2

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1679
Laboratory ID: B[E1679-MS1
Preparation: No Prep
Initial/Final: 19 ml / 20 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Nitrite as N	0.52632	ND	0.52818	100	90 - 110
Nitrite as NO2	1.7289	ND	1.7348	100	90 - 110

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Nitrite as N	0.52632	0.53091	101	0.516	10	90 - 110
Nitrite as NO2	1.7289	1.7438	101	0.516	10	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-353.2

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[E1679	Laboratory ID:	B[E1679-BS1
Preparation:	No Prep	Initial/Final:	20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Nitrite as N	0.50000	0.50826	102	90 - 110
Nitrite as NO2	1.6425	1.6694	102	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708644
Instrument: KONE-1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1708644-CCV1	170512 0835 NO2-001	05/12/17 08:35
Calibration Blank	1708644-CCB1	170512 0835 NO2-002	05/12/17 08:35
Calibration Check	1708644-CCV2	170512 0835 NO2-013	05/12/17 08:37
Calibration Blank	1708644-CCB2	170512 0835 NO2-014	05/12/17 08:37
Calibration Check	1708644-CCV3	170512 0835 NO2-017	05/12/17 08:39
Calibration Blank	1708644-CCB3	170512 0835 NO2-018	05/12/17 08:39
Calibration Check	1708644-CCV4	170512 0835 NO2-019	05/12/17 08:50
Calibration Blank	1708644-CCB4	170512 0835 NO2-020	05/12/17 08:50
Calibration Check	1708644-CCV5	170512 0835 NO2-023	05/12/17 08:52
Calibration Blank	1708644-CCB5	170512 0835 NO2-024	05/12/17 08:52
Calibration Check	1708644-CCV6	170512 0835 NO2-025	05/12/17 09:19
Calibration Blank	1708644-CCB6	170512 0835 NO2-026	05/12/17 09:19
LCS	B[E1679-BS1	170512 0835 NO2-027	05/12/17 09:19
Blank	B[E1679-BLK1	170512 0835 NO2-028	05/12/17 09:19
27MW09_170511	1713059-04	170512 0835 NO2-029	05/12/17 09:19
27MW09_170511	B[E1679-DUP1	170512 0835 NO2-030	05/12/17 09:19
27MW09_170511	B[E1679-MS1	170512 0835 NO2-031	05/12/17 09:19
27MW09_170511	B[E1679-MSD1	170512 0835 NO2-032	05/12/17 09:19
27MW10_170511	1713059-05	170512 0835 NO2-033	05/12/17 09:19
27MW11_170511	1713059-06	170512 0835 NO2-034	05/12/17 09:19
27MW13_170511	1713059-09	170512 0835 NO2-036	05/12/17 09:19
Calibration Check	1708644-CCV7	170512 0835 NO2-037	05/12/17 09:21
Calibration Blank	1708644-CCB7	170512 0835 NO2-038	05/12/17 09:21
27MW14_170511	1713059-10	170512 0835 NO2-039	05/12/17 09:21
Calibration Check	1708644-CCV8	170512 0835 NO2-040	05/12/17 09:23
Calibration Blank	1708644-CCB8	170512 0835 NO2-041	05/12/17 09:23

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1708644	Instrument:	KONE-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
27MW12_170511	1713059-08	170512 0835 NO2-042	05/12/17 09:29
Calibration Check	1708644-CCV9	170512 0835 NO2-044	05/12/17 09:32
Calibration Blank	1708644-CCB9	170512 0835 NO2-045	05/12/17 09:32
Calibration Check	1708644-CCVA	170512 0835 NO2-167	05/12/17 17:00
Calibration Blank	1708644-CCBA	170512 0835 NO2-168	05/12/17 17:00
Calibration Check	1708644-CCVB	170512 0835 NO2-173	05/12/17 17:02
Calibration Blank	1708644-CCBB	170512 0835 NO2-174	05/12/17 17:02
Calibration Check	1708644-CCVC	170512 1843 NO2-001	05/12/17 18:43
Calibration Blank	1708644-CCBC	170512 1843 NO2-002	05/12/17 18:43
Calibration Check	1708644-CCVD	170512 1843 NO2-004	05/12/17 18:45
Calibration Blank	1708644-CCBD	170512 1843 NO2-005	05/12/17 18:45

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-353.2

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Project: Alameda
Sequence: 1708644
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1708644-CCB1	Nitrite as N	0.0048840	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.016042	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCB2	Nitrite as N	0.0040710	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.013371	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCB3	Nitrite as N	0.0043090	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.014153	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCB4	Nitrite as N	0.0038060	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.012501	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCB5	Nitrite as N	0.0039160	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.012862	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCB6	Nitrite as N	0.016361	0.010		0.050	mg/L	J	EPA-353.2
	Nitrite as NO2	0.053738	0.040		0.17	mg/L	J	EPA-353.2
1708644-CCB7	Nitrite as N	0.0042110	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.013831	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCB8	Nitrite as N	0.0045430	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.014921	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCB9	Nitrite as N	0.0046110	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.015145	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCBA	Nitrite as N	0.0078580	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.025810	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCBB	Nitrite as N	0.0073230	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.024052	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCBC	Nitrite as N	0.0082300	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.027031	0.040		0.17	mg/L	U	EPA-353.2
1708644-CCBD	Nitrite as N	0.0093010	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.030549	0.040		0.17	mg/L	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Control Limt: +/- 10.00%

SDG: 1713059
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1708644

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1708644-CCV1	Nitrite as N	0.50000	0.50639	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6632	101	mg/L	EPA-353.2
1708644-CCV2	Nitrite as N	0.50000	0.50333	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6532	101	mg/L	EPA-353.2
1708644-CCV3	Nitrite as N	0.50000	0.50221	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6495	100	mg/L	EPA-353.2
1708644-CCV4	Nitrite as N	0.50000	0.50325	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6529	101	mg/L	EPA-353.2
1708644-CCV5	Nitrite as N	0.50000	0.50782	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6679	102	mg/L	EPA-353.2
1708644-CCV6	Nitrite as N	0.50000	0.50451	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6571	101	mg/L	EPA-353.2
1708644-CCV7	Nitrite as N	0.50000	0.50583	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6614	101	mg/L	EPA-353.2
1708644-CCV8	Nitrite as N	0.50000	0.50500	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6587	101	mg/L	EPA-353.2
1708644-CCV9	Nitrite as N	0.50000	0.50466	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6575	101	mg/L	EPA-353.2
1708644-CCVA	Nitrite as N	0.50000	0.52971	106	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7398	106	mg/L	EPA-353.2
1708644-CCVB	Nitrite as N	0.50000	0.52849	106	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7358	106	mg/L	EPA-353.2
1708644-CCVC	Nitrite as N	0.50000	0.51734	103	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6992	103	mg/L	EPA-353.2
1708644-CCVD	Nitrite as N	0.50000	0.51886	104	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7042	104	mg/L	EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-353.2

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/12/17 08:35	0.99	2.00	05/12/17 09:19	0.99	2.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/12/17 08:35	0.91	2.00	05/12/17 09:19	0.91	2.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/12/17 08:35	1.04	2.00	05/12/17 09:19	1.04	2.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/12/17 08:35	0.99	2.00	05/12/17 09:29	0.99	2.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/12/17 08:35	0.93	2.00	05/12/17 09:19	0.93	2.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/12/17 08:35	1.05	2.00	05/12/17 09:21	1.05	2.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument KONE-1

Raw Data - Analytical Runs

Laboratory
Analyzer User

12.05.2017 17:02

Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
CCV-NO2	0.50639	0.0	0.269	
CCB-NO2	0.00488	0.0	0.006	
B1N-BS1	0.50706	0.0	0.269	
B1N-BLK1	0.00478	0.0	0.006	
1712951-01	0.00612	0.0	0.006	
B1N-DUP1	0.00601	0.0	0.006	
B1N-MS1	0.49823	0.0	0.264	
B1N-MSD1	0.50196	0.0	0.266	
1712950-01	0.00739	0.0	0.007	
1712952-01	0.00614	0.0	0.006	
1712953-01	0.15114	0.0	0.082	
1712960-01	0.02029	0.0	0.014	
CCV-NO2	0.50333	0.0	0.267	
CCB-NO2	0.00407	0.0	0.005	
1712989-01	0.01628	0.0	0.012	
1712990-01	0.20045	0.0	0.108	
CCV-NO2	0.50221	0.0	0.266	
CCB-NO2	0.00431	0.0	0.006	
CCV-NO2	0.50325	0.0	0.267	
CCB-NO2	0.00381	0.0	0.005	
1712953-01	0.15082	0.0	0.082	
1712990-01	0.20354	0.0	0.110	
CCV-NO2	0.50782	0.0	0.269	
CCB-NO2	0.00392	0.0	0.005	
CCV-NO2	0.50451	0.0	0.268	
CCB-NO2	0.01636	0.0	0.012	Rule 1 violated
B2N-BS1	0.50826	0.0	0.270	
B2N-BLK1	0.00518	0.0	0.006	
1713059-04	0.00504	0.0	0.006	
B2N-DUP1	0.00542	0.0	0.006	
B2N-MS1	0.50177	0.0	0.266	
B2N-MSD1	0.50436	0.0	0.268	
1713059-05	0.00649	0.0	0.007	
1713059-06	0.04638	0.0	0.028	
1713059-08	0.05189	0.0	0.030	
1713059-09	0.00646	0.0	0.007	
CCV-NO2	0.50583	0.0	0.268	
CCB-NO2	0.00421	0.0	0.005	
1713059-10	0.29411	0.0	0.157	
CCV-NO2	0.50500	0.0	0.268	
CCB-NO2	0.00454	0.0	0.006	
1713059-08	0.04953	0.0	0.029	
1713059-10	0.30184	0.0	0.161	
CCV-NO2	0.50466	0.0	0.268	
CCB-NO2	0.00461	0.0	0.006	
CCV-NO2	0.52971	0.0	0.281	
CCB-NO2	0.00786	0.0	0.007	
1713108-01	0.00617	0.0	0.007	
1713068-01	0.00632	0.0	0.007	
1713081-01	0.00620	0.0	0.007	
1713081-02	0.00668	0.0	0.007	
CCV-NO2	0.52849	0.0	0.280	
CCB-NO2	0.00732	0.0	0.007	

Laboratory
Analyzer User

12.05.2017 17:02

Test: NO2

Sample Id	Result	Dil. 1 +	Response	Ô□„

N	31
Mean	0.14814
SD	0.196196
CV%	132.44

Laboratory
Analyzer User

Date : 12.05.2017
Time : 17:02

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV-NO2	0.50639	12.05.2017 08:35		
CCB-NO2	0.00488	12.05.2017 08:35		
B1N-BS1	0.50706	12.05.2017 08:35		
B1N-BLK1	0.00478	12.05.2017 08:35		
1712951-01	0.00612	12.05.2017 08:35		
B1N-DUP1	0.00601	12.05.2017 08:35		
B1N-MS1	0.49823	12.05.2017 08:35		
B1N-MSD1	0.50196	12.05.2017 08:35		
1712950-01	0.00739	12.05.2017 08:35		
1712952-01	0.00614	12.05.2017 08:35		
1712953-01	0.15114	12.05.2017 08:35		
1712960-01	0.02029	12.05.2017 08:35		
CCV-NO2	0.50333	12.05.2017 08:37		
CCB-NO2	0.00407	12.05.2017 08:37		
1712989-01	0.01628	12.05.2017 08:37		
1712990-01	0.20045	12.05.2017 08:37		
CCV-NO2	0.50221	12.05.2017 08:39		
CCB-NO2	0.00431	12.05.2017 08:39		
CCV-NO2	0.50325	12.05.2017 08:50		
CCB-NO2	0.00381	12.05.2017 08:50		
1712953-01	0.15082	12.05.2017 08:50		
1712990-01	0.20354	12.05.2017 08:50		
CCV-NO2	0.50782	12.05.2017 08:52		
CCB-NO2	0.00392	12.05.2017 08:52		
CCV-NO2	0.50451	12.05.2017 09:19		
CCB-NO2	0.01636	12.05.2017 09:19		
B2N-BS1	0.50826	12.05.2017 09:19		
B2N-BLK1	0.00518	12.05.2017 09:19		
1713059-04	0.00504	12.05.2017 09:19		
B2N-DUP1	0.00542	12.05.2017 09:19		
B2N-MS1	0.50177	12.05.2017 09:19		
B2N-MSD1	0.50436	12.05.2017 09:19		
1713059-05	0.00649	12.05.2017 09:19		
1713059-06	0.04638	12.05.2017 09:19		
1713059-08	0.05189	12.05.2017 09:19		
1713059-09	0.00646	12.05.2017 09:19		
CCV-NO2	0.50583	12.05.2017 09:21		
CCB-NO2	0.00421	12.05.2017 09:21		
1713059-10	0.29411	12.05.2017 09:21		
CCV-NO2	0.50500	12.05.2017 09:23		
CCB-NO2	0.00454	12.05.2017 09:23		
1713059-08	0.04953	12.05.2017 09:29		
1713059-10	0.30184	12.05.2017 09:30		
CCV-NO2	0.50466	12.05.2017 09:32		
CCB-NO2	0.00461	12.05.2017 09:32		
CCV-NO2	0.52971	12.05.2017 17:00		
CCB-NO2	0.00786	12.05.2017 17:00		
1713108-01	0.00617	12.05.2017 17:00		
1713068-01	0.00632	12.05.2017 17:00		
1713081-01	0.00620	12.05.2017 17:00		
1713081-02	0.00668	12.05.2017 17:00		
CCV-NO2	0.52849	12.05.2017 17:02		
CCB-NO2	0.00732	12.05.2017 17:02		

Laboratory
Analyzer User

15.05.2017 07:21

Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
CCB-NO2	-	0.0	-	Aut. rejected, Batch inco
CCV-NO2	-	0.0	-	Aut. rejected, Batch inco
CCV-NO2	0.51734	0.0	0.274	
CCB-NO2	0.00823	0.0	0.008	
1713134-01	-0.00272	0.0	0.002	
CCV-NO2	0.51886	0.0	0.275	
CCB-NO2	0.00930	0.0	0.008	

N	1
Mean	-0.00272
SD	0.000000
CV%	0.00

Laboratory
Analyzer User

Date : 15.05.2017
Time : 07:20

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCB-NO2	_____	-		
CCV-NO2	_____	-		
CCV-NO2	_____	-		
CCB-NO2	_____	-		
1713134-01	-0.00272	12.05.2017 18:43		
CCV-NO2	_____	-		
CCB-NO2	_____	-		

Raw Data - Calibration Summary

Calibration results Aquakem 7.2AQ1 Page: 1

Laboratory
Analyzer User

11.05.2017 10:15

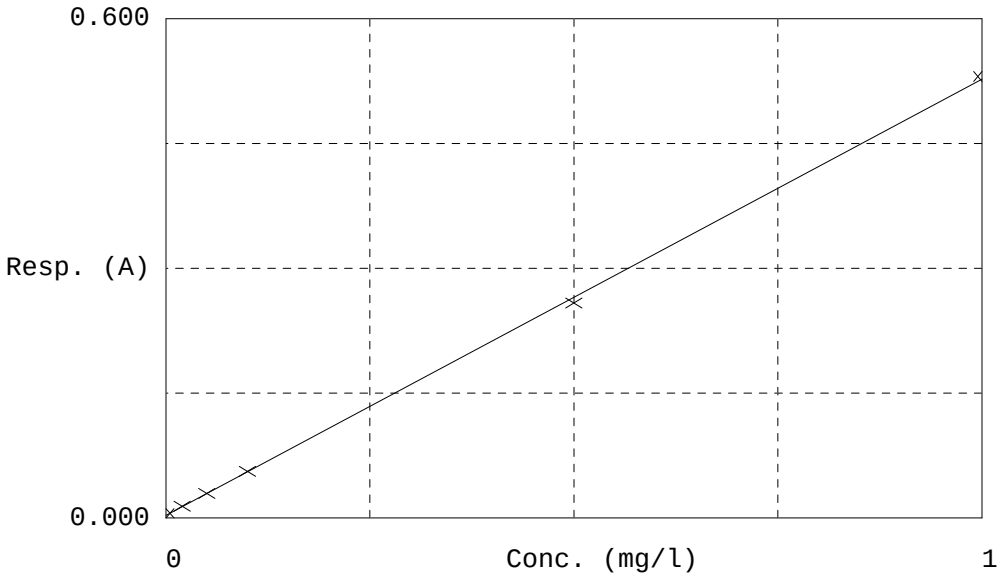
Test NO2

Accepted 11.05.2017 10:15

Factor 1.90791
Bias 0.00327

Coeff. of det. 0.999701

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	NO2-0	0.00553	0.00431	0.00000	
2	NO2-0.02	0.01421	0.02088	0.02000	
3	NO2-0.05	0.02971	0.05045	0.05000	
4	NO2-0.10	0.05629	0.10116	0.10000	
5	NO2-0.50	0.25838	0.48673	0.50000	
6	NO2-1.00	0.53080	1.00648	1.00000	
7	ICB-NO2(control	0.00546	0.00419	0.00000	
8	ICV-NO2(control	0.27245	0.51357	0.50000	

NO2 Laboratory
Analyzer User
Date : 11.05.2017
Time : 10:15

Last change date 04.02.2016 12:17
Tick length (sec) 7.0

Full name	Nitrite as N				
Online Name		Test In Use	YES		
Test type	Photometric		LOW	HIGH	
		Test limit	*	5.00000 mg/l	
Result unit	mg/l	Initial absorbance	-0.050	*	A
Number of Decim.	5	Dilution limit	*	1.000000 mg/l	
		Secondary dil 1+	0.0	4.0	
		Critical limit	*	*	mg/l
		Reflex test limit	*	*	mg/l
		Reflex test			

Acceptance	Manual	Reference class	LOW	HIGH	In Use
Dilution 1+	0.0				
Sample type	Water	Correction factor	1.00		
	Raw water	Correction bias	0.00	mg/l	
	Sewage				
Calibration type	Linear				
Curve direction	Ascending				
Repeat time (d)	0	Abs error (mA)	*		
Points/cal.	Single	Rel error (%)	*		
Acceptance	Manual				
Response limit (mA)	MIN	MAX			
	*	*			
Bias correction in use	NO				
Cd reduction	NO				
Type of Calibrators	Separate				
Calibrator	Conc.	Dil. ratio			
NO2-0	0.000	1+0.0			
NO2-0.02	0.020	1+0.0			
NO2-0.05	0.050	1+0.0			
NO2-0.10	0.100	1+0.0			
NO2-0.50	0.500	1+0.0			
NO2-1.00	1.000	1+0.0			
Manual QC in Use	YES	Routine QC in Use	YES		
Acceptance	Manual	Interval Requests	10		
		Additional condition	NO		

Control	Mean	SD	Control	Mean	SD
ICB-NO2	0.00	0.01	CCB-NO2	0.00	0.01
ICV-NO2	0.50	0.05	CCV-NO2	0.50	0.05

Rules in Use	1:1.0*SD	Rules in Use	1:1.0*SD
Blank	YES		
		Normal cuvette	
Sample		Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Dilution with	Water	Wash reagent	None

NO2 Laboratory
Analyzer User
Date : 11.05.2017
Time : 10:15

Reagent	NO2 Buffer	Volume (ul)	120
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Measurement	End point	Blank	
Resp. Min(A)	*	Resp. Max(A)	*
Reagent	NO2 color	Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Incubation		Time (sec)	360
Measurement	End point		
Wavelength (nm)	540 nm	Side wavel. (nm)	None
Meas. type	Fixed timing		

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1679

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1713059-04 G	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713059-05 G	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713059-06 G	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713059-08 G	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713059-09 G	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713059-10 G	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713068-01 A	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713081-01 D	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713081-02 D	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
1713108-01 A	i353.2wm NO2 as N	5/12/2017 8:35AM	JMH	20	20					
B[E1679-BLK1	QC	5/12/2017 8:35AM	JMH	20	20					
B[E1679-BS1	QC	5/12/2017 8:35AM	JMH	20	20	7A26039		1000		
B[E1679-DUP1	QC	5/12/2017 8:35AM	JMH	20	20		1713059-04			
B[E1679-MS1	QC	5/12/2017 8:35AM	JMH	19	20	7A26039	1713059-04	1000		
B[E1679-MSD1	QC	5/12/2017 8:35AM	JMH	19	20	7A26039	1713059-04	1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7A26039	PO4/NO2 SPIKE	DI WATER	1/24/2017 by Roxanne Cantorna	6/24/2017

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1708644

Instrument: KONE-1
Calibration ID:
Sequence Date: 05/12/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708644-CCV1	QC		1		7E02060		
1708644-CCB1	QC		2				
B[E1678-BS1	QC		3				
B[E1678-BLK1	QC		4				
1712951-01	i353.2wb NO2 as NO2	A	5				BatchQC
1712951-01	i353.2wm NO2 as N	A	5				
B[E1678-DUP1	QC		6				
B[E1678-MS1	QC		7				
B[E1678-MSD1	QC		8				
1712950-01	i353.2wm NO2 as N	A	9				
1712952-01	i353.2wm NO2 as N	A	10				
1712953-01	i353.2wm NO2 as N	A	11				
1712960-01	i353.2wm NO2 as N	A	12				
1708644-CCV2	QC		13		7E02060		
1708644-CCB2	QC		14				
1712989-01	i353.2wb NO2 as NO2	I	15				
1712990-01	i353.2wm NO2 as N	D	16				
1708644-CCV3	QC		17		7E02060		
1708644-CCB3	QC		18				
1708644-CCV4	QC		19		7E02060		
1708644-CCB4	QC		20				
1708644-CCV5	QC		21		7E02060		
1708644-CCB5	QC		22				
1708644-CCV6	QC		23		7E02060		
1708644-CCB6	QC		24				
B[E1679-BS1	QC		25				
B[E1679-BLK1	QC		26				
1713059-04	i353.2wm NO2 as N	G	27				
B[E1679-DUP1	QC		28				
B[E1679-MS1	QC		29				
B[E1679-MSD1	QC		30				
1713059-05	i353.2wm NO2 as N	G	31				
1713059-06	i353.2wm NO2 as N	G	32				
1713059-09	i353.2wm NO2 as N	G	33				
1708644-CCV7	QC		34		7E02060		
1708644-CCB7	QC		35				
1713059-10	i353.2wm NO2 as N	G	36				
1708644-CCV8	QC		37		7E02060		
1708644-CCB8	QC		38				

ANALYSIS SEQUENCE

1708644

Instrument: KONE-1
Calibration ID:
Sequence Date: 05/12/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713059-08	i353.2wm NO2 as N	G	39				
1708644-CCV9	QC		40		7E02060		
1708644-CCB9	QC		41				
1708644-CCVA	QC		42		7E02060		
1708644-CCBA	QC		43				
1713108-01	i353.2wm NO2 as N	A	44				
1713068-01	i353.2wm NO2 as N	A	45				
1713081-01	i353.2wm NO2 as N	D	46				
1713081-02	i353.2wm NO2 as N	D	47				
1708644-CCVB	QC		48		7E02060		
1708644-CCBB	QC		49				
1708644-CCVC	QC		50		7E02060		
1708644-CCBC	QC		51				
1713134-01	i353.2wb NO2 as NO2	I	52				
1708644-CCVD	QC		53		7E02060		
1708644-CCBD	QC		54				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **1713059**
Class: **WET**
Method: **EPA-415.1**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-415.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27MW09_170511	1713059-04
27MW10_170511	1713059-05
27MW11_170511	1713059-06
27MW12_170511	1713059-08
27MW13_170511	1713059-09
27MW14_170511	1713059-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 06-13-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-415.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: TOC2

Analyte	DL	LOD	LOQ	Units
Non-Volatile Organic Carbon	0.3	0.3	1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04
File ID: 20170515_1220-026
Sampled: 05/11/17 09:38
Prepared: 05/15/17 07:00
Analyzed: 05/15/17 18:42
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[E1491
Sequence: 1708640
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	1.9	0.30	0.30	1.0	1		EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-05
File ID: 20170515_1220-033
Sampled: 05/11/17 11:34
Prepared: 05/15/17 07:00
Analyzed: 05/15/17 20:22
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[E1491
Sequence: 1708640
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	1.6	0.30	0.30	1.0	1		EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW11_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-06
File ID: 20170515_1220-034
Sampled: 05/11/17 08:20
Prepared: 05/15/17 07:00
Analyzed: 05/15/17 20:37
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[E1491
Sequence: 1708640
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	30	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW12_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-08
File ID: 20170515_1220-035
Sampled: 05/11/17 09:37
Prepared: 05/15/17 07:00
Analyzed: 05/15/17 20:51
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[E1491
Sequence: 1708640
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	1.2	0.30	0.30	1.0	1		EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW13_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-09
File ID: 20170515_1220-036
Sampled: 05/11/17 11:05
Prepared: 05/15/17 07:00
Analyzed: 05/15/17 21:05
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[E1491
Sequence: 1708640
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	2.6	0.30	0.30	1.0	1		EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW14_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-10
File ID: 20170515_1220-037
Sampled: 05/11/17 08:15
Prepared: 05/15/17 07:00
Analyzed: 05/15/17 21:20
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[E1491
Sequence: 1708640
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	5.0	0.60	0.60	2.0	2	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1491
Batch Matrix: Water
Preparation: General Preparation

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW09_170511	1713059-04	20170515_1220-026	05/15/17 07:00	
27MW10_170511	1713059-05	20170515_1220-033	05/15/17 07:00	
27MW11_170511	1713059-06	20170515_1220-034	05/15/17 07:00	
27MW12_170511	1713059-08	20170515_1220-035	05/15/17 07:00	
27MW13_170511	1713059-09	20170515_1220-036	05/15/17 07:00	
27MW14_170511	1713059-10	20170515_1220-037	05/15/17 07:00	
Blank	B[E1491-BLK1	20170515_1220-024	05/15/17 07:00	
LCS	B[E1491-BS1	20170515_1220-025	05/15/17 07:00	
27MW09_170511	B[E1491-DUP1	20170515_1220-030	05/15/17 07:00	
27MW09_170511	B[E1491-MS1	20170515_1220-031	05/15/17 07:00	
27MW09_170511	B[E1491-MSD1	20170515_1220-032	05/15/17 07:00	

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-415.1

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1491-BLK1	File ID:	20170515_1220-024
Prepared:	05/15/17 07:00	Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml
Analyzed:	05/15/17 18:13	Instrument:	TOC2		
Batch:	B[E1491	Sequence:	1708640	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Non-Volatile Organic Carbon	0.30	0.30	0.30	1.0	U

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9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

27MW09_170511

DUPLICATES

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[E1491
Preparation: General Preparation
Source Sample Name: 27MW09_170511

SDG: 1713059
Project: Alameda
Laboratory ID: B[E1491-DUP1
Lab Source ID: 1713059-04
Initial/Final: 100 ml / 100 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Non-Volatile Organic Carbon	10	1.9310		1.9130		0.937		EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-415.1

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[E1491
Laboratory ID: B[E1491-MS1
Preparation: General Preparation
Initial/Final: 99.5 ml / 100 ml
Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	5.0251	1.9310	6.0834	82.6	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Non-Volatile Organic Carbon	5.0251	6.0975	82.9	0.231	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-415.1

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[E1491	Laboratory ID:	B[E1491-BS1
Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	5.0000	5.1280	103	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1708640
Instrument: TOC2
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1708640-ICV1	20170515_1220-003	05/15/17 13:13
Initial Cal Blank	1708640-ICB1	20170515_1220-004	05/15/17 13:27
MRL Check	1708640-CRL1	20170515_1220-005	05/15/17 13:42
Calibration Check	1708640-CCV1	20170515_1220-015	05/15/17 16:05
Calibration Blank	1708640-CCB1	20170515_1220-016	05/15/17 16:19
Blank	B[E1491-BLK1	20170515_1220-024	05/15/17 18:13
LCS	B[E1491-BS1	20170515_1220-025	05/15/17 18:28
27MW09_170511	1713059-04	20170515_1220-026	05/15/17 18:42
Calibration Check	1708640-CCV2	20170515_1220-027	05/15/17 18:56
Calibration Blank	1708640-CCB2	20170515_1220-028	05/15/17 19:10
27MW09_170511	B[E1491-DUP1	20170515_1220-030	05/15/17 19:39
27MW09_170511	B[E1491-MS1	20170515_1220-031	05/15/17 19:54
27MW09_170511	B[E1491-MSD1	20170515_1220-032	05/15/17 20:08
27MW10_170511	1713059-05	20170515_1220-033	05/15/17 20:22
27MW11_170511	1713059-06	20170515_1220-034	05/15/17 20:37
27MW12_170511	1713059-08	20170515_1220-035	05/15/17 20:51
27MW13_170511	1713059-09	20170515_1220-036	05/15/17 21:05
27MW14_170511	1713059-10	20170515_1220-037	05/15/17 21:20
Calibration Check	1708640-CCV3	20170515_1220-039	05/15/17 21:49
Calibration Blank	1708640-CCB3	20170515_1220-040	05/15/17 22:03
Calibration Check	1708640-CCV4	20170515_1220-051	05/16/17 00:41
Calibration Blank	1708640-CCB4	20170515_1220-052	05/16/17 00:55
Calibration Check	1708640-CCV5	20170515_1220-063	05/16/17 03:33
Calibration Blank	1708640-CCB5	20170515_1220-064	05/16/17 03:47
Calibration Check	1708640-CCV6	20170515_1220-075	05/16/17 06:27
Calibration Blank	1708640-CCB6	20170515_1220-076	05/16/17 06:41

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-415.1

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1708640	Instrument:	TOC2
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1708640-CCV7	20170515_1220-082	05/16/17 08:11
Calibration Blank	1708640-CCB7	20170515_1220-083	05/16/17 08:26

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-415.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: TOC2
Project: Alameda
Sequence: 1708640
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1708640-ICB1	Non-Volatile Organic Carbon	0.0020000	0.30		1.0	mg/L	U	EPA-415.1
1708640-CCB1	Non-Volatile Organic Carbon	0.018000	0.30		1.0	mg/L	U	EPA-415.1
1708640-CCB2	Non-Volatile Organic Carbon	0.029000	0.30		1.0	mg/L	U	EPA-415.1
1708640-CCB3	Non-Volatile Organic Carbon	0.041000	0.30		1.0	mg/L	U	EPA-415.1
1708640-CCB4	Non-Volatile Organic Carbon	0.020000	0.30		1.0	mg/L	U	EPA-415.1
1708640-CCB5	Non-Volatile Organic Carbon	0.030000	0.30		1.0	mg/L	U	EPA-415.1
1708640-CCB6	Non-Volatile Organic Carbon	0.026000	0.30		1.0	mg/L	U	EPA-415.1
1708640-CCB7	Non-Volatile Organic Carbon	0.073000	0.30		1.0	mg/L	U	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: TOC2
Control Limt: +/- 10.00%

SDG: 1713059
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1708640

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1708640-ICV1	Non-Volatile Organic Carbon	5.0000	5.0670	101	mg/L	EPA-415.1
1708640-CCV1	Non-Volatile Organic Carbon	5.0000	5.0320	101	mg/L	EPA-415.1
1708640-CCV2	Non-Volatile Organic Carbon	5.0000	5.0220	100	mg/L	EPA-415.1
1708640-CCV3	Non-Volatile Organic Carbon	5.0000	5.0900	102	mg/L	EPA-415.1
1708640-CCV4	Non-Volatile Organic Carbon	5.0000	5.0430	101	mg/L	EPA-415.1
1708640-CCV5	Non-Volatile Organic Carbon	5.0000	5.0580	101	mg/L	EPA-415.1
1708640-CCV6	Non-Volatile Organic Carbon	5.0000	5.0730	101	mg/L	EPA-415.1
1708640-CCV7	Non-Volatile Organic Carbon	5.0000	5.0770	102	mg/L	EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-415.1

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/15/17 07:00	4.00	28.00	05/15/17 18:42	4.00	28.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/15/17 07:00	4.00	28.00	05/15/17 20:22	4.00	28.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/15/17 07:00	4.00	28.00	05/15/17 20:37	4.00	28.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/15/17 07:00	4.00	28.00	05/15/17 20:51	4.00	28.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/15/17 07:00	4.00	28.00	05/15/17 21:05	4.00	28.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/15/17 07:00	4.00	28.00	05/15/17 21:20	4.00	28.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument TOC2

Raw Data - Analytical Runs

BC Laboratories

Sample Results

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:20 pm			3,377	0.000	
2	12:28 pm			3,786	0.000	
3	12:36 pm			3,171	0.000	
		Clean Up	**Avg.**	3,445	**0.000**	

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:48 pm			3,612	0.000	
2	12:54 pm			2,982	0.000	
		QC Blank	**Avg.**	3,297	**0.000**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:07 pm			102,537	5.039	
2	1:13 pm			103,671	5.096	
		ICV1	**Avg.**	103,104	**5.068**	1.12

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:21 pm			3,247	0.000	
2	1:27 pm			3,373	0.004	
		ICB1	**Avg.**	3,310	**0.002**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:36 pm			9,934	0.337	
2	1:42 pm			9,818	0.331	
		CRL1	**Avg.**	9,876	**0.334**	1.80

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:50 pm			3,305	0.001	
2	1:56 pm			3,270	0.000	
		B[E1258-BLK1	**Avg.**	3,288	**0.001**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:05 pm			103,480	5.087	
2	2:11 pm			104,168	5.122	
		B[E1258-BS1	**Avg.**	103,824	**5.104**	0.69

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:19 pm			6,446	0.238	
2	2:25 pm			6,136	0.221	
		1712830-01@A	**Avg.**	6,291	**0.229**	7.41

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Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:33 pm			6,460	0.238	
2	2:39 pm			6,649	0.248	
		B[E1258-ICC@A	**Avg.**	6,554	**0.243**	4.12

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:47 pm			6,710	0.251	
2	2:53 pm			6,302	0.230	
		B[E1258-DUP1@A	**Avg.**	6,506	**0.241**	8.73

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:02 pm			106,293	5.307	
2	3:08 pm			107,522	5.370	
		B[E1258-MS1@A	**Avg.**	106,907	**5.339**	1.18

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:16 pm			106,616	5.324	
2	3:22 pm			107,438	5.365	
		B[E1258-MSD1@A	**Avg.**	107,027	**5.345**	0.77

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:30 pm			64,206	3.170	
2	3:36 pm			64,121	3.165	
		1712333-01@B	**Avg.**	64,163	**3.168**	0.16

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:45 pm			35,775	1.727	
2	3:50 pm			33,858	1.630	
		1712333-02@B	**Avg.**	34,817	**1.678**	5.78

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:59 pm			102,279	5.026	
2	4:05 pm			102,543	5.038	
		CCV1	**Avg.**	102,411	**5.032**	0.24

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:13 pm			3,967	0.034	
2	4:19 pm			3,360	0.003	
		CCB1	**Avg.**	3,664	**0.019**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:27 pm			34,733	1.674	
2	4:33 pm			34,491	1.662	
		1712846-01@F	**Avg.**	34,612	**1.668**	0.72

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Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:42 pm			82,596	4.103	
2	4:48 pm			82,694	4.108	
		1712634-01@200E	**Avg.**	82,645	**4.106**	0.12

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:56 pm			27,851	1.325	
2	5:02 pm			27,195	1.291	
		1713054-01@D	**Avg.**	27,523	**1.308**	2.60

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:10 pm			40,852	1.985	
2	5:16 pm			40,445	1.964	
		1713054-02@D	**Avg.**	40,648	**1.974**	1.06

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:25 pm			19,737	0.913	
2	5:30 pm			20,330	0.943	
		1713054-03@D	**Avg.**	20,033	**0.928**	3.23

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:39 pm			28,948	1.380	
2	5:45 pm			28,182	1.341	
		1713054-04@D	**Avg.**	28,565	**1.361**	2.87

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:53 pm			34,963	1.686	
2	5:59 pm			34,645	1.669	
		1713054-05@D	**Avg.**	34,804	**1.678**	1.01

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:07 pm			3,907	0.031	
2	6:13 pm			3,373	0.004	
		B[E1491-BLK1	**Avg.**	3,640	**0.018**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:22 pm			104,475	5.137	
2	6:28 pm			104,108	5.118	
		B[E1491-BS1	**Avg.**	104,291	**5.128**	0.37

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:36 pm			43,810	2.135	
2	6:42 pm			35,766	1.726	
		1713059-04@I	**Avg.**	39,788	**1.931**	< PQL

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Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:50 pm			102,660	5.045	
2	6:56 pm			101,749	4.999	
		CCV2	**Avg.**	102,205	**5.022**	0.92

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:04 pm			4,054	0.039	
2	7:10 pm			3,657	0.018	
		CCB2	**Avg.**	3,856	**0.029**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:19 pm			41,453	2.015	
2	7:25 pm			35,340	1.705	
		B[E1491-ICC@I	**Avg.**	38,397	**1.860**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:33 pm			43,275	2.108	
2	7:39 pm			35,620	1.718	
		B[E1491-DUP1@I	**Avg.**	39,448	**1.913**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:48 pm			127,435	6.381	
2	7:53 pm			114,515	5.725	
		B[E1491-MS1@I	**Avg.**	120,975	**6.053**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:02 pm			127,901	6.404	
2	8:08 pm			114,614	5.730	
		B[E1491-MSD1@I	**Avg.**	121,257	**6.067**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:16 pm			34,926	1.684	
2	8:22 pm			32,871	1.579	
		1713059-05@I	**Avg.**	33,898	**1.632**	6.44

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:31 pm			124,400	6.227	
2	8:37 pm			118,732	5.939	
		1713059-06@5I	**Avg.**	121,566	**6.083**	4.73

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:45 pm			26,681	1.265	
2	8:51 pm			25,705	1.216	
		1713059-08@I	**Avg.**	26,193	**1.240**	3.95

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Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:59 pm			55,935	2.750	
2	9:05 pm			50,256	2.462	
		1713059-09@I	**Avg.**	53,095	**2.606**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:14 pm			52,315	2.567	
2	9:20 pm			50,230	2.461	
		1713059-10@2I	**Avg.**	51,272	**2.514**	4.22

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:28 pm			41,061	1.995	
2	9:34 pm			38,987	1.890	
		1713052-01@D	**Avg.**	40,024	**1.943**	5.41

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:43 pm			103,128	5.069	
2	9:48 pm			103,961	5.110	
		CCV3	**Avg.**	103,545	**5.089**	0.81

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:56 pm			4,298	0.051	
2	10:03 pm			3,882	0.030	
		CCB3	**Avg.**	4,090	**0.040**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:11 pm			31,432	1.506	
2	10:17 pm			31,222	1.496	
		1713052-02@D	**Avg.**	31,327	**1.501**	0.67

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:26 pm			24,178	1.137	
2	10:32 pm			23,927	1.125	
		1712847-01@M	**Avg.**	24,052	**1.131**	1.06

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:40 pm			5,328	0.181	
2	10:46 pm			4,614	0.145	
		1713138-01@I	**Avg.**	4,971	**0.163**	< PQL

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:54 pm			3,838	0.028	
2	11:00 pm			3,872	0.029	
		B[E1564-BLK1	**Avg.**	3,855	**0.029**	3.51

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Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:08 pm			105,298	5.179	
2	11:14 pm			106,308	5.230	
		B[E1564-BS1	**Avg.**	105,803	**5.205**	0.98

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:22 pm			4,650	0.147	
2	11:28 pm			4,428	0.135	
		1713138-04@I	**Avg.**	4,539	**0.141**	8.51

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:37 pm			5,351	0.182	
2	11:43 pm			5,228	0.176	
		B[E1564-ICC@I	**Avg.**	5,290	**0.179**	3.35

Rep #	Time	Date: 05/15/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:51 pm			4,910	0.160	
2	11:57 pm			4,781	0.153	
		B[E1564-DUP1@I	**Avg.**	4,846	**0.157**	4.47

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:06 am			105,673	5.276	
2	12:12 am			106,143	5.300	
		B[E1564-MS1@I	**Avg.**	105,908	**5.288**	0.45

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:20 am			105,057	5.244	
2	12:26 am			106,196	5.302	
		B[E1564-MSD1@I	**Avg.**	105,626	**5.273**	1.10

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:35 am			102,190	5.021	
2	12:41 am			103,034	5.064	
		CCV4	**Avg.**	102,612	**5.043**	0.85

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:49 am			3,771	0.024	
2	12:55 am			3,618	0.016	
		CCB4	**Avg.**	3,695	**0.020**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:03 am			5,233	0.176	
2	1:09 am			4,960	0.162	
		1713138-02@I	**Avg.**	5,096	**0.169**	8.28

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Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:18 am			6,829	0.257	
2	1:24 am			6,674	0.249	
		1713138-03@I	**Avg.**	6,751	**0.253**	3.16

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:32 am			7,567	0.295	
2	1:38 am			7,505	0.292	
		1713138-05@I	**Avg.**	7,536	**0.294**	1.02

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:46 am			4,239	0.126	
2	1:52 am			4,277	0.128	
		1713138-06@I	**Avg.**	4,258	**0.127**	1.57

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:01 am			7,484	0.290	
2	2:07 am			7,636	0.298	
		1713138-07@I	**Avg.**	7,560	**0.294**	2.72

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:15 am			8,522	0.343	
2	2:21 am			8,659	0.350	
		1713138-08@I	**Avg.**	8,591	**0.346**	2.02

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:29 am			7,283	0.280	
2	2:36 am			7,455	0.289	
		1713138-09@I	**Avg.**	7,369	**0.284**	3.16

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:44 am			5,393	0.184	
2	2:50 am			5,320	0.181	
		1713138-10@I	**Avg.**	5,356	**0.183**	1.64

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:58 am			4,851	0.157	
2	3:04 am			4,669	0.148	
		1713138-11@I	**Avg.**	4,760	**0.153**	5.90

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:12 am			3,610	0.015	
2	3:18 am			3,483	0.010	
		B[E1565-BLK1	**Avg.**	3,547	**0.013**	< PQL

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Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:27 am			102,453	5.034	
2	3:33 am			103,360	5.081	
		CCV5	**Avg.**	102,906	**5.058**	0.93

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:41 am			3,909	0.031	
2	3:47 am			3,856	0.029	
		CCB5	**Avg.**	3,883	**0.030**	6.67

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:56 am			104,763	5.152	
2	4:02 am			106,208	5.225	
		B[E1565-BS1	**Avg.**	105,486	**5.189**	1.41

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:11 am			11,961	0.518	
2	4:17 am			10,535	0.445	
		1713158-01@10G	**Avg.**	11,248	**0.481**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:26 am			11,852	0.512	
2	4:31 am			10,538	0.446	
		B[E1565-ICC@10G	**Avg.**	11,195	**0.479**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:40 am			12,083	0.524	
2	4:46 am			10,519	0.445	
		B[E1565-DUP1@10G	**Avg.**	11,301	**0.485**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:54 am			94,025	4.684	
2	5:00 am			87,646	4.360	
		B[E1565-MS1@10G	**Avg.**	90,835	**4.522**	7.16

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:09 am			94,781	4.723	
2	5:15 am			87,565	4.356	
		B[E1565-MSD1@10G	**Avg.**	91,173	**4.539**	8.08

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:23 am			14,961	0.670	
2	5:29 am			12,739	0.557	
		1713158-02@10G	**Avg.**	13,850	**0.614**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:38 am			13,011	0.571	
2	5:43 am			11,409	0.490	
		1713158-03@10G	**Avg.**	12,210	**0.530**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:52 am			37,260	1.802	
2	5:58 am			31,859	1.527	
		1713158-04@10G	**Avg.**	34,560	**1.664**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:06 am			14,641	0.654	
2	6:12 am			12,795	0.560	
		1713158-05@10G	**Avg.**	13,718	**0.607**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:21 am			102,519	5.038	
2	6:27 am			103,893	5.108	
		CCV6	**Avg.**	103,206	**5.073**	1.38

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:35 am			3,892	0.030	
2	6:41 am			3,738	0.023	
		CCB6	**Avg.**	3,815	**0.026**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:49 am			6,204	0.225	
2	6:55 am			5,339	0.182	
		1713158-06@10G	**Avg.**	5,772	**0.204**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:04 am			17,726	0.810	
2	7:10 am			15,789	0.712	
		1713158-07@10G	**Avg.**	16,758	**0.761**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:18 am			30,944	1.482	
2	7:24 am			26,735	1.268	
		1713158-08@10G	**Avg.**	28,839	**1.375**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:33 am			10,199	0.428	
2	7:39 am			8,670	0.351	
		1713158-09@10G	**Avg.**	9,434	**0.390**	< PQL

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Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:49 am			20,504	0.952	
2	7:55 am			17,926	0.821	
		1713158-10@10G	**Avg.**	19,215	**0.887**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:05 am			102,412	5.032	
2	8:11 am			104,155	5.121	
		CCV7	**Avg.**	103,284	**5.076**	1.75

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:20 am			4,888	0.081	
2	8:26 am			4,568	0.065	
		CCB7	**Avg.**	4,728	**0.073**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:35 am			45,794	2.236	
2	8:40 am			34,093	1.641	
		1713158-01@G	**Avg.**	39,943	**1.938**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:49 am			45,701	2.231	
2	8:55 am			33,219	1.597	
		B[E1565-ICC@G	**Avg.**	39,460	**1.914**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:04 am			47,154	2.305	
2	9:10 am			34,037	1.639	
		B[E1565-DUP1@G	**Avg.**	40,595	**1.972**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:18 am			66,446	3.284	
2	9:24 am			42,512	2.069	
		B[E1565-MS1@G	**Avg.**	54,479	**2.676**	45.40

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:33 am			68,047	3.365	
2	9:39 am			43,748	2.132	
		B[E1565-MSD1@G	**Avg.**	55,897	**2.749**	44.86

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:47 am			50,638	2.481	
2	9:53 am			35,545	1.715	
		1713158-02@G	**Avg.**	43,091	**2.098**	< PQL

BC Laboratories

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:01 am			54,297	2.667	
2	10:07 am			39,836	1.933	
		1713158-03@G	**Avg.**	47,066	**2.300**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:16 am			62,207	3.069	
2	10:22 am			44,034	2.146	
		1713158-05@G	**Avg.**	53,120	**2.608**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:30 am			19,006	0.875	
2	10:36 am			15,495	0.697	
		1713158-06@G	**Avg.**	17,251	**0.786**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:45 am			71,222	3.527	
2	10:50 am			54,682	2.687	
		1713158-07@G	**Avg.**	62,952	**3.107**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:59 am			106,594	5.245	
2	11:05 am			106,255	5.228	
		CCV8	**Avg.**	106,424	**5.236**	0.32

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:13 am			3,745	0.023	
2	11:19 am			3,694	0.020	
		CCB8	**Avg.**	3,719	**0.021**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:28 am			34,430	1.659	
2	11:33 am			26,994	1.280	
		1713158-09@G	**Avg.**	30,712	**1.469**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:42 am			59,664	2.940	
2	11:48 am			48,916	2.393	
		1713158-10@2G	**Avg.**	54,290	**2.666**	< PQL

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:56 am			105,999	5.214	
2	12:02 pm			105,929	5.211	
		CCV9	**Avg.**	105,964	**5.213**	0.06

BC Laboratories

Rep #	Time	Date: 05/16/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:10 pm			3,784	0.025	
2	12:16 pm			3,549	0.013	
		CCB9	**Avg.**	3,667	**0.019**	< PQL

Raw Data - Calibration Summary

O·I·CORPORATION

Date Prepared: 05/15/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Customer ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	6	6	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TIC	4,328	0.000	0.000	695	16.07	
									TOC	4,729	0.000	0.000	869	18.38	
3	1	TOC-RW	4	4	170515 - 5 mls - May 15, 2017; 08-04-33 AM	Standard	1 : 1	00000000	TOC	4,813	0.000	0.000	32	0.67	
4	2	TOC-Std#1-1.000 PPM	4	4	170515 - 5 mls - May 15, 2017; 08-04-33 AM	Standard	1 : 1	00000000	TOC	24,657	5.000	1.000	260	1.05	
5	3	TOC-Std#2-5.000 PPM	4	4	170515 - 5 mls - May 15, 2017; 08-04-33 AM	Standard	1 : 1	00000000	TOC	101,804	25.000	5.000	963	0.95	
6	4	TOC-Std#3-10.000 PPM	4	4	170515 - 5 mls - May 15, 2017; 08-04-33 AM	Standard	1 : 1	00000000	TOC	202,093	50.000	10.000	1,450	0.72	

O·I·CORPORATION

Date Prepared: 05/15/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 05/15/2017 **Status:** Passed
Vial #: - **Method :** DefaultCleanUpMethod **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	8:21 am	5,524	0.000	0.000	5,394	0.000	0.000
2	8:29 am	4,225	0.000	0.000	6,121	0.000	0.000
3	8:38 am	4,696	0.000	0.000	4,119	0.000	0.000
4	8:46 am	4,066	0.000	0.000	4,651	0.000	0.000
5	8:55 am	3,894	0.000	0.000	3,845	0.000	0.000
6	9:04 am	3,564	0.000	0.000	4,241	0.000	0.000
	Avg.	4,328	0.000	0.000	4,729	0.000	0.000
	Std.Dev.	695			869		
	% RSD.	16.07			18.38		

Spl #: 3 **Sample ID :** TOC-RW **Type :** Standard **Date:** 05/15/2017 **Status:** Passed
Vial #: 1 **Method :** 170515 - 5 mls - May 15, 2017 **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	9:33 am	-	-	-	4,794	0.000	0.000
2	9:39 am	-	-	-	4,806	0.000	0.000
3	9:45 am	-	-	-	4,790	0.000	0.000
4	9:50 am	-	-	-	4,860	0.000	0.000
	Avg.	-	-	-	4,813	0.000	0.000
	Std.Dev.				32		
	% RSD.				0.67		

O·I·CORPORATION

Date Prepared: 05/15/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	4	**Sample ID :**	TOC-Std#1-1.000 PPM	**Type :**	Standard	**Date:**	05/15/2017	**Status:**	Passed
Vial #:	2	**Method :**	170515 - 5 mls - May 15, 2017	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	9:59 am	-	-	-	24,900	5.000	1.000
2	10:05 am	-	-	-	24,353	5.000	1.000
3	10:11 am	-	-	-	24,844	5.000	1.000
4	10:17 am	-	-	-	24,530	5.000	1.000
	Avg.	-	-	-	24,657	5.000	1.000
	Std.Dev.				260		
	% RSD.				1.05		

Spl #:	5	**Sample ID :**	TOC-Std#2-5.000 PPM	**Type :**	Standard	**Date:**	05/15/2017	**Status:**	Passed
Vial #:	3	**Method :**	170515 - 5 mls - May 15, 2017	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	10:25 am	-	-	-	102,631	25.000	5.000
2	10:31 am	-	-	-	100,584	25.000	5.000
3	10:37 am	-	-	-	102,515	25.000	5.000
4	10:43 am	-	-	-	101,484	25.000	5.000
	Avg.	-	-	-	101,804	25.000	5.000
	Std.Dev.				963		
	% RSD.				0.95		

O·I·CORPORATION

Date Prepared: 05/15/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	6	**Sample ID :**	TOC-Std#3-10.000 PPM	**Type :**	Standard	**Date:**	05/15/2017	**Status:**	Passed
Vial #:	4	**Method :**	170515 - 5 mls - May 15, 2017	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	10:51 am	-	-	-	203,641	50.000	10.000
2	10:57 am	-	-	-	200,895	50.000	10.000
3	11:03 am	-	-	-	203,017	50.000	10.000
4	11:08 am	-	-	-	200,820	50.000	10.000
	Avg.	-	-	-	202,093	50.000	10.000
	Std.Dev.				1,450		
	% RSD.				0.72		

O·I·CORPORATION

Date Prepared: 05/15/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Method Summary

Method Details

Method Name:	170515 - 5 mls - May 15, 201
Date Created:	05/15/2017
Time Created:	8:05
Created By:	ALW

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1
Sample Stirring in A/S:	Enabled

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:15

Temp

	React	Detect
TIC	70	70
TOC	98	98

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Outlier Removal Criteria

Additional Replicates:	0
Max. % RSD.	3.00

Peak Detection Parameters

Signal-to-Noise Ratio:	3
Minimum Peak Width (min:sec):	00:30
Peak Resolution to BaseLine(%):	99

Volumes

Sample Volume (mL):	5.000
Acid Volume (mL):	0.500
Persulfate Volume(mL):	1.000

Rinses

Rinse Volume (mL):	10.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Other

SysPressure:	20.00

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Pass/Fail Criteria

Parameter	Low	High	Failure
RF (ugC/K-cts)	-	-	-
R2	0.995	1.000	Abort
Offset (area) (cts)	-	-	-
Offset (mass) (ugC)	-	-	-

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10,000.00	Continue	Continue
QC #1	5.000	10,000.00	Continue	Continue
QC #2	5.000	15,000.00	Continue	Continue
QC #3	1.000	50,000.00	Continue	Continue
QC #4	0.001	100,000.00	Continue	Continue
SST	0.000	0.00	Continue	Continue

O·I·CORPORATION

Date Prepared: 05/15/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Calibration Details

Calibration Mode:	TOC
Date Calibrated:	05/15/2017
Time Calibrated:	11:08 am
Calibrated By:	ALW
RF (ugC/k-cts):	0.2539
R2:	0.9998
Offset (area)(cts):	4558
Offset (mass)(ugC):	-1.157
Reagent Blank (cts):	1,764

Calibration Settings

Stock Conc. For Dilutions: (PPM)	1,000.000
# of Reagent Blanks:	2
Total Flowrate w/EFC:	50 ml/min
Check Standards:	Subtract Offset
Regression type:	Unweighted

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1491

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Wet Chem - General Preparation | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1712847-01 M	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713052-01 D	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713052-02 D	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713059-04 I	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713059-05 I	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713059-06 I	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713059-08 I	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713059-09 I	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713059-10 I	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
1713138-01 I	i415.1w NVOC	5/15/2017 7:00AM	ALW	100	100					
B[E1491-BLK1	QC	5/15/2017 7:00AM	ALW	100	100					
B[E1491-BS1	QC	5/15/2017 7:00AM	ALW	100	100	7D13023		500		
B[E1491-DUP1	QC	5/15/2017 7:00AM	ALW	100	100		1713059-04			
B[E1491-MS1	QC	5/15/2017 7:00AM	ALW	99.5	100	7D13023	1713059-04	500		
B[E1491-MSD1	QC	5/15/2017 7:00AM	ALW	99.5	100	7D13023	1713059-04	500		

Spike Mixes	Description	Solvent	Prepared	Expires
7D13023	TOC KHP 1000 /SPIKE	H3P04 IN WATER	4/13/2017 by ** Vendor **	3/31/2018

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1708640

Instrument: TOC2
Calibration ID:
Sequence Date: 05/15/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708640-ICV1	QC		1		7D20027		
1708640-ICB1	QC		2				
1708640-CRL1	QC		3		7E09014		
B[E1258-BLK1	QC		4				
B[E1258-BS1	QC		5				
1712830-01	i415.1w NVOC	A	6				
1712830-01	iSM5310Cw NVOC	A	6				BatchQC
B[E1258-DUP1	QC		7				
B[E1258-MS1	QC		8				
B[E1258-MSD1	QC		9				
1712333-01	iSM5310Cw NVOC	B	10				
1712333-02	iSM5310Cw NVOC	B	11				
1708640-CCV1	QC		12		7E09013		
1708640-CCB1	QC		13				
1712846-01	i415.1w NVOC	F	14				
1712634-01	iSM5310Cw NVOC	E	15				
1713054-01	i415.1w NVOC	D	16				
1713054-02	i415.1w NVOC	D	17				
1713054-03	i415.1w NVOC	D	18				
1713054-04	i415.1w NVOC	D	19				
1713054-05	i415.1w NVOC	D	20				
B[E1491-BLK1	QC		21				
B[E1491-BS1	QC		22				
1713059-04	i415.1w NVOC	I	23				
1708640-CCV2	QC		24		7E09013		
1708640-CCB2	QC		25				
B[E1491-DUP1	QC		26				
B[E1491-MS1	QC		27				
B[E1491-MSD1	QC		28				
1713059-05	i415.1w NVOC	I	29				
1713059-06	i415.1w NVOC	I	30				
1713059-08	i415.1w NVOC	I	31				
1713059-09	i415.1w NVOC	I	32				
1713059-10	i415.1w NVOC	I	33				
1713052-01	i415.1w NVOC	D	34				
1708640-CCV3	QC		35		7E09013		
1708640-CCB3	QC		36				
1713052-02	i415.1w NVOC	D	37				
1712847-01	i415.1w NVOC	M	38				

ANALYSIS SEQUENCE

1708640

Instrument: TOC2
Calibration ID:
Sequence Date: 05/15/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713138-01	i415.1w NVOC	I	39				
B[E1564-BLK1	QC		40				
B[E1564-BS1	QC		41				
1713138-04	i415.1w NVOC	I	42				
B[E1564-DUP1	QC		43				
B[E1564-MS1	QC		44				
B[E1564-MSD1	QC		45				
1708640-CCV4	QC		46		7E09013		
1708640-CCB4	QC		47				
1713138-02	i415.1w NVOC	I	48				
1713138-03	i415.1w NVOC	I	49				
1713138-05	i415.1w NVOC	I	50				
1713138-06	i415.1w NVOC	I	51				
1713138-07	i415.1w NVOC	I	52				
1713138-08	i415.1w NVOC	I	53				
1713138-09	i415.1w NVOC	I	54				
1713138-10	i415.1w NVOC	I	55				
1713138-11	i415.1w NVOC	I	56				
B[E1565-BLK1	QC		57				
1708640-CCV5	QC		58		7E09013		
1708640-CCB5	QC		59				
B[E1565-BS1	QC		60				
1713158-01	i415.1w NVOC	G	61				
B[E1565-DUP1	QC		62				
B[E1565-MS1	QC		63				
B[E1565-MSD1	QC		64				
1713158-02	i415.1w NVOC	G	65				
1713158-03	i415.1w NVOC	G	66				
1713158-04	i415.1w NVOC	G	67				
1713158-05	i415.1w NVOC	G	68				
1708640-CCV6	QC		69		7E09013		
1708640-CCB6	QC		70				
1713158-06	i415.1w NVOC	G	71				
1713158-07	i415.1w NVOC	G	72				
1713158-08	i415.1w NVOC	G	73				
1713158-09	i415.1w NVOC	G	74				
1713158-10	i415.1w NVOC	G	75				
1708640-CCV7	QC		76		7E09013		
1708640-CCB7	QC		77				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **1713059**
Class: **WET**
Method: **SM-4500SD**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

SM-4500SD

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27MW09_170511	1713059-04
27MW10_170511	1713059-05
27MW11_170511	1713059-06
27MW12_170511	1713059-08
27MW13_170511	1713059-09
27MW14_170511	1713059-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 06-13-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

SM-4500SD

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: SPEC06

Analyte	DL	LOD	LOQ	Units
Total Sulfide	0.05	0.1	0.1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW09_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-04
File ID:
Sampled: 05/11/17 09:38
Prepared: 05/15/17 09:00
Analyzed: 05/15/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[E1634
Sequence: 1708520
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW10_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-05
File ID:
Sampled: 05/11/17 11:34
Prepared: 05/15/17 09:00
Analyzed: 05/15/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[E1634
Sequence: 1708520
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW11_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-06
File ID:
Sampled: 05/11/17 08:20
Prepared: 05/15/17 09:00
Analyzed: 05/15/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[E1634
Sequence: 1708520
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	1.0	0.50	1.0	1.0	10	UD	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW12_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-08
File ID:
Sampled: 05/11/17 09:37
Prepared: 05/15/17 09:00
Analyzed: 05/15/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[E1634
Sequence: 1708520
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW13_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-09
File ID:
Sampled: 05/11/17 11:05
Prepared: 05/15/17 09:00
Analyzed: 05/15/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[E1634
Sequence: 1708520
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW14_170511

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1713059-10
File ID:
Sampled: 05/11/17 08:15
Prepared: 05/15/17 09:00
Analyzed: 05/15/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[E1634
Sequence: 1708520
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

SM-4500SD

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[E1634
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW09_170511	1713059-04		05/15/17 09:00	
27MW10_170511	1713059-05		05/15/17 09:00	
27MW11_170511	1713059-06		05/15/17 09:00	
27MW12_170511	1713059-08		05/15/17 09:00	
27MW13_170511	1713059-09		05/15/17 09:00	
27MW14_170511	1713059-10		05/15/17 09:00	
Blank	B[E1634-BLK1		05/15/17 09:00	
LCS	B[E1634-BS1		05/15/17 09:00	
27MW09_170511	B[E1634-DUP1		05/15/17 09:00	
27MW09_170511	B[E1634-MS1		05/15/17 09:00	
27MW09_170511	B[E1634-MSD1		05/15/17 09:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
SM-4500SD

Laboratory:	BC Laboratories			SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[E1634-BLK1	File ID:	
Prepared:	05/15/17 09:00	Preparation:	No Prep	Initial/Final:	25 ml / 25 ml
Analyzed:	05/15/17 09:00	Instrument:	SPEC06		
Batch:	B[E1634	Sequence:	1708520	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

27MW09_170511

DUPLICATES

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[E1634
Preparation: No Prep
Source Sample Name: 27MW09_170511

SDG: 1713059
Project: Alameda
Laboratory ID: B[E1634-DUP1
Lab Source ID: 1713059-04
Initial/Final: 25 ml / 25 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Sulfide	10	0.015710		ND				SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM-4500SD

27MW09_170511

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[E1634	Laboratory ID:	B[E1634-MS1
Preparation:	No Prep	Initial/Final:	25 ml / 25 ml

Source Sample Number: 1713059-04

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	ND	0.31472	62.9 *	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Sulfide	0.50000	0.32110	64.2 *	2.01	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
SM-4500SD

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[E1634	Laboratory ID:	B[E1634-BS1
Preparation:	No Prep	Initial/Final:	25 ml / 25 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	0.52544	105	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM-4500SD

Laboratory:	BC Laboratories	SDG:	1713059
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1708520	Instrument:	SPEC06
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	B[E1634-BS1		05/15/17 09:00
Blank	B[E1634-BLK1		05/15/17 09:00
Calibration Check	1708520-CCV1		05/15/17 09:00
Calibration Blank	1708520-CCB1		05/15/17 09:00
27MW09_170511	1713059-04		05/15/17 09:00
27MW09_170511	B[E1634-DUP1		05/15/17 09:00
27MW09_170511	B[E1634-MS1		05/15/17 09:00
27MW09_170511	B[E1634-MSD1		05/15/17 09:00
27MW10_170511	1713059-05		05/15/17 09:00
Calibration Check	1708520-CCV2		05/15/17 09:00
Calibration Blank	1708520-CCB2		05/15/17 09:00
27MW11_170511	1713059-06		05/15/17 09:00
27MW12_170511	1713059-08		05/15/17 09:00
27MW13_170511	1713059-09		05/15/17 09:00
27MW14_170511	1713059-10		05/15/17 09:00
Calibration Check	1708520-CCV3		05/15/17 09:00
Calibration Blank	1708520-CCB3		05/15/17 09:00
Initial Cal Check	1708520-ICV1		05/15/17 13:52
Initial Cal Blank	1708520-ICB1		05/15/17 13:52

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
SM-4500SD

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Project: Alameda
Sequence: 1708520
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1708520-CCB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1708520-CCB2	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1708520-CCB3	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1708520-ICB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Control Limt: +/- %

SDG: 1713059
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1708520

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1708520-CCV1	Total Sulfide	0.50000	0.52544	105	mg/L	SM-4500SD
1708520-CCV2	Total Sulfide	0.50000	0.52544	105	mg/L	SM-4500SD
1708520-CCV3	Total Sulfide	0.50000	0.52544	105	mg/L	SM-4500SD
1708520-ICV1	Total Sulfide	0.50000	0.48393	96.8	mg/L	SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
SM-4500SD

Laboratory: BC Laboratories
SDG: 1713059
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27MW09_170511	05/11/17 09:38	05/11/17 22:30	05/15/17 09:00	4.00	7.00	05/15/17 09:00	4.00	7.00	
27MW10_170511	05/11/17 11:34	05/11/17 22:30	05/15/17 09:00	4.00	7.00	05/15/17 09:00	4.00	7.00	
27MW11_170511	05/11/17 08:20	05/11/17 22:30	05/15/17 09:00	4.00	7.00	05/15/17 09:00	4.00	7.00	
27MW12_170511	05/11/17 09:37	05/11/17 22:30	05/15/17 09:00	4.00	7.00	05/15/17 09:00	4.00	7.00	
27MW13_170511	05/11/17 11:05	05/11/17 22:30	05/15/17 09:00	4.00	7.00	05/15/17 09:00	4.00	7.00	
27MW14_170511	05/11/17 08:15	05/11/17 22:30	05/15/17 09:00	4.00	7.00	05/15/17 09:00	4.00	7.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument SPEC06

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[E1634

BC Laboratories

Printed: 6/13/2017 3:45:18PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1712656-01 M	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1712831-01 L	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1712847-01 L	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1712968-01 M	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1713059-04 H	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1713059-05 H	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1713059-06 H	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1713059-08 H	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1713059-09 H	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
1713059-10 H	iSM4500SDw Total Sulfide	5/15/2017 9:00AM	DIW	25	25					
B[E1634-BLK1	QC	5/15/2017 9:00AM	DIW	25	25					
B[E1634-BS1	QC	5/15/2017 9:00AM	DIW	25	25	6L29006		2500		
B[E1634-DUP1	QC	5/15/2017 9:00AM	DIW	25	25		1713059-04			
B[E1634-MS1	QC	5/15/2017 9:00AM	DIW	25	25	6L29006	1713059-04	2500		
B[E1634-MSD1	QC	5/15/2017 9:00AM	DIW	25	25	6L29006	1713059-04	2500		

Spike Mixes	Description	Solvent	Prepared	Expires
6L29006	SULFIDE 5.0 WORK	H2O	12/29/2016 by Daniel Wencesla	6/29/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1708520

Instrument: SPEC06
Calibration ID:
Sequence Date: 05/15/2017
Printed: 6/13/2017 3:45:18PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1708520-ICV1	QC		1		7E05001		
1708520-ICB1	QC		2				
B[E1630-BS1	QC		3				
B[E1634-BS1	QC		4				
B[E1630-BLK1	QC		5				
B[E1634-BLK1	QC		6				
1712969-01	iSM4500SDw Diss Sulfide	H	7				
B[E1630-DUP1	QC		8				
B[E1630-MS1	QC		9				
B[E1630-MSD1	QC		10				
1712969-02	iSM4500SDw Diss Sulfide	H	11				
1712969-03	iSM4500SDw Diss Sulfide	H	12				
1712969-04	iSM4500SDw Diss Sulfide	H	13				
1712969-05	iSM4500SDw Diss Sulfide	H	14				
1708520-CCV1	QC		15		7E05002		
1708520-CCB1	QC		16				
1712969-06	iSM4500SDw Diss Sulfide	H	17				
1713131-01	iSM4500SDw Diss Sulfide	R	18				
1713132-01	iSM4500SDw Diss Sulfide	R	19				
1713133-01	iSM4500SDw Diss Sulfide	R	20				
1713134-01	iSM4500SDw Diss Sulfide	O	21				
1713059-04	iSM4500SDw Total Sulfide	H	22				
B[E1634-DUP1	QC		23				
B[E1634-MS1	QC		24				
B[E1634-MSD1	QC		25				
1713059-05	iSM4500SDw Total Sulfide	H	26				
1708520-CCV2	QC		27		7E05002		
1708520-CCB2	QC		28				
1713059-06	iSM4500SDw Total Sulfide	H	29				
1713059-08	iSM4500SDw Total Sulfide	H	30				
1713059-09	iSM4500SDw Total Sulfide	H	31				
1713059-10	iSM4500SDw Total Sulfide	H	32				
1712656-01	iSM4500SDw Total Sulfide	M	33				
1712831-01	iSM4500SDw Total Sulfide	L	34				
1712847-01	iSM4500SDw Total Sulfide	L	35				
1712968-01	iSM4500SDw Total Sulfide	M	36				
1708520-CCV3	QC		37		7E05002		
1708520-CCB3	QC		38				

Data Review Report

Sequence and Sample #	Sample Name	Batch #	Analysed
1708520			
1	1708520-ICV1	1708520	5/15/2017 1:52:00PM
2	1708520-ICB1	1708520	5/15/2017 1:52:00PM
3	B[E1630-BS1	B[E1630	5/15/2017 1:52:00PM
4	B[E1634-BS1	B[E1634	5/15/2017 9:00:00AM
5	B[E1630-BLK1	B[E1630	5/15/2017 9:00:00AM
6	B[E1634-BLK1	B[E1634	5/15/2017 9:00:00AM
7	1712969-01	B[E1630	5/15/2017 9:00:00AM
8	B[E1630-DUP1	B[E1630	5/15/2017 9:00:00AM
9	B[E1630-MS1	B[E1630	5/15/2017 9:00:00AM
10	B[E1630-MSD1	B[E1630	5/15/2017 9:00:00AM
11	1712969-02	B[E1630	5/15/2017 9:00:00AM
12	1712969-03	B[E1630	5/15/2017 9:00:00AM
13	1712969-04	B[E1630	5/15/2017 9:00:00AM
14	1712969-05	B[E1630	5/15/2017 9:00:00AM
15	1708520-CCV1	1708520	5/15/2017 9:00:00AM
16	1708520-CCB1	1708520	5/15/2017 9:00:00AM
17	1712969-06	B[E1630	5/15/2017 9:00:00AM
18	1713131-01	B[E1630	5/15/2017 9:00:00AM
19	1713132-01	B[E1630	5/15/2017 9:00:00AM
20	1713133-01	B[E1630	5/15/2017 9:00:00AM
21	1713134-01	B[E1630	5/15/2017 9:00:00AM
22	1713059-04	B[E1634	5/15/2017 9:00:00AM
23	B[E1634-DUP1	B[E1634	5/15/2017 9:00:00AM
24	B[E1634-MS1	B[E1634	5/15/2017 9:00:00AM
25	B[E1634-MSD1	B[E1634	5/15/2017 9:00:00AM
26	1713059-05	B[E1634	5/15/2017 9:00:00AM
27	1708520-CCV2	1708520	5/15/2017 9:00:00AM
28	1708520-CCB2	1708520	5/15/2017 9:00:00AM
29	1713059-06	B[E1634	5/15/2017 9:00:00AM
30	1713059-08	B[E1634	5/15/2017 9:00:00AM
31	1713059-09	B[E1634	5/15/2017 9:00:00AM
32	1713059-10	B[E1634	5/15/2017 9:00:00AM
33	1712656-01	B[E1634	5/15/2017 9:00:00AM
34	1712831-01	B[E1634	5/15/2017 9:00:00AM
35	1712847-01	B[E1634	5/15/2017 9:00:00AM
36	1712968-01	B[E1634	5/15/2017 9:00:00AM
37	1708520-CCV3	1708520	5/15/2017 9:00:00AM
38	1708520-CCB3	1708520	5/15/2017 9:00:00AM

15/17 14:00	Sequence #: 1708520	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
Sequence #	**1708520**								
mple ID:	**1708520-ICV1**	Sequence Sample # 1							
M4500SDw Diss Sulfide		0.48393		mg/L	1.00			Y	96.8
M4500SDw Total Sulfide		0.48393		mg/L	1.00			Y	96.8
mple ID:	**1708520-ICB1**	Sequence Sample # 2							
M4500SDw Diss Sulfide		0.0000		mg/L	1.00			Y	
M4500SDw Total Sulfide		0.0000		mg/L	1.00			Y	
mple ID:	**B[E1630-BS1**	Sequence Sample # 3		Batch # B[E1630					
M4500SDw Diss Sulfide		0.52544		mg/L	1.00	0.050	0.10	Y	105
mple ID:	**B[E1634-BS1**	Sequence Sample # 4		Batch # B[E1634					
M4500SDw Total Sulfide		0.52544		mg/L	1.00	0.050	0.10	Y	105
mple ID:	**B[E1630-BLK1**	Sequence Sample # 5		Batch # B[E1630					

15/17 14:00 **Sequence #: 1708520**

	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD	
mple ID: B[E1630-BLK1	Sequence Sample # 5		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y		
mple ID: B[E1634-BLK1	Sequence Sample # 6		Batch # B[E1634						
M4500SDw Total Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y		
mple ID: 1712969-01	Sequence Sample # 7		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: B[E1630-DUP1	Sequence Sample # 8		Batch # B[E1630		Source ID: 1712969-01				
M4500SDw Diss Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y		
mple ID: B[E1630-MS1	Sequence Sample # 9		Batch # B[E1630		Source ID: 1712969-01				
M4500SDw Diss Sulfide	0.44402		mg/L	1.00	0.050	0.10	Y	88.8	
mple ID: B[E1630-MSD1	Sequence Sample # 10		Batch # B[E1630		Source ID: 1712969-01				
M4500SDw Diss Sulfide	0.45041		mg/L	1.00	0.050	0.10	Y	90.1	1.43
mple ID: 1712969-02	Sequence Sample # 11		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1712969-03	Sequence Sample # 12		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1712969-04	Sequence Sample # 13		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1712969-05	Sequence Sample # 14		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1708520-CCV1	Sequence Sample # 15								
M4500SDw Diss Sulfide	0.52544		mg/L	1.00			Y	105	
M4500SDw Total Sulfide	0.52544		mg/L	1.00			Y	105	
mple ID: 1708520-CCB1	Sequence Sample # 16								
M4500SDw Diss Sulfide	0.0000		mg/L	1.00			Y		
M4500SDw Total Sulfide	0.0000		mg/L	1.00			Y		
mple ID: 1712969-06	Sequence Sample # 17		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1713131-01	Sequence Sample # 18		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1713132-01	Sequence Sample # 19		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1713133-01	Sequence Sample # 20		Batch # B[E1630						
M4500SDw Diss Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1713134-01	Sequence Sample # 21		Batch # B[E1630						
M4500SDw Diss Sulfide	0.063	A07	mg/L	2.00	0.10	0.20	Y		
mple ID: 1713059-04	Sequence Sample # 22		Batch # B[E1634						
M4500SDw Total Sulfide	0.016		mg/L	1.00	0.050	0.10	Y		
mple ID: B[E1634-DUP1	Sequence Sample # 23		Batch # B[E1634		Source ID: 1713059-04				
M4500SDw Total Sulfide	0.014290		mg/L	1.00	0.050	0.10	Y		
mple ID: B[E1634-MS1	Sequence Sample # 24		Batch # B[E1634		Source ID: 1713059-04				
M4500SDw Total Sulfide	0.31472	Q03	mg/L	1.00	0.050	0.10	Y	62.9	
mple ID: B[E1634-MSD1	Sequence Sample # 25		Batch # B[E1634		Source ID: 1713059-04				
M4500SDw Total Sulfide	0.32110	Q03	mg/L	1.00	0.050	0.10	Y	64.2	2.01
mple ID: 1713059-05	Sequence Sample # 26		Batch # B[E1634						
M4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
mple ID: 1708520-CCV2	Sequence Sample # 27								
M4500SDw Diss Sulfide	0.52544		mg/L	1.00			Y	105	
M4500SDw Total Sulfide	0.52544		mg/L	1.00			Y	105	
mple ID: 1708520-CCB2	Sequence Sample # 28								
M4500SDw Diss Sulfide	0.0000		mg/L	1.00			Y		
M4500SDw Total Sulfide	0.0000		mg/L	1.00			Y		
mple ID: 1713059-06	Sequence Sample # 29		Batch # B[E1634						
M4500SDw Total Sulfide	0.29	A07	mg/L	10.00	0.50	1.0	Y		
mple ID: 1713059-08	Sequence Sample # 30		Batch # B[E1634						
M4500SDw Total Sulfide	0.026		mg/L	1.00	0.050	0.10	Y		

15/17 14:00 Sequence #: 1708520	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
ample ID: 1713059-09	Sequence Sample # 31		Batch # B[E1634					
SM4500SDw Total Sulfide	0.0057		mg/L	1.00	0.050	0.10	Y	
ample ID: 1713059-10	Sequence Sample # 32		Batch # B[E1634					
SM4500SDw Total Sulfide	0.030		mg/L	1.00	0.050	0.10	Y	
ample ID: 1712656-01	Sequence Sample # 33		Batch # B[E1634					
SM4500SDw Total Sulfide	0.40	A07	mg/L	10.00	0.50	1.0	Y	
ample ID: 1712831-01	Sequence Sample # 34		Batch # B[E1634					
SM4500SDw Total Sulfide	0.83	A07	mg/L	20.00	1.0	2.0	Y	
ample ID: 1712847-01	Sequence Sample # 35		Batch # B[E1634					
SM4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y	
ample ID: 1712968-01	Sequence Sample # 36		Batch # B[E1634					
SM4500SDw Total Sulfide	0.69	A07	mg/L	20.00	1.0	2.0	Y	
ample ID: 1708520-CCV3	Sequence Sample # 37							
SM4500SDw Diss Sulfide	0.52544		mg/L	1.00			Y	105
SM4500SDw Total Sulfide	0.52544		mg/L	1.00			Y	105
ample ID: 1708520-CCB3	Sequence Sample # 38							
SM4500SDw Diss Sulfide	0.0000		mg/L	1.00			Y	
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	

Recovery and RPD Out of Control Report

Sample ID	Analyte	Rpt	Qual.	% Rec	RPD	Limits	
B[E1634-MS1	Total Sulfide	Y	Q03	62.9		80.00	120.00
B[E1634-MSD1	Total Sulfide	Y	Q03	64.2		80.00	120.00

Hold Time Out of Control Report

Analyte	Sample ID	Sample Date	Prep Date	Prep Expires	Date Analyzed	Analysis Exp.	SO5 Fl

Method ID:	i376.2 Sulfide	Mult Factor:	1
Instrument:	SPEC06	IR Blank Subtraction:	0
Run Date:	05/15/2017	Digits Past Decimal (IR):	5
Run Number:	1	Use PTP Below Std1:	Y
Full XLS File Name:	W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 05-15-17 #01.xls	Use PTP Below Std2:	N

Standards

Conc	Reading
0	0.000
0.05	0.035
0.1	0.069
0.2	0.139
0.5	0.338
1.0	0.625

Correlation Coefficient: 0.999150780815542

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1708520-ICV1	0.311	0.48393	1	05/15/2017	13:52	SPEC06	DIW
1708520-ICB1	0.000	0.00000	1	05/15/2017	13:52	SPEC06	DIW
B[E1630-BS1	0.337	0.52544	1	05/15/2017	13:52	SPEC06	DIW
B[E1634-BS1	0.337	0.52544	1	05/15/2017	09:00	SPEC06	DIW
B[E1630-BLK1	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
B[E1634-BLK1	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1712969-01	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
B[E1630-DUP1	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
B[E1630-MS1	0.286	0.44402	1	05/15/2017	09:00	SPEC06	DIW
B[E1630-MSD1	0.290	0.45041	1	05/15/2017	09:00	SPEC06	DIW
1712969-02	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1712969-03	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1712969-04	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1712969-05	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1708520-CCV1	0.337	0.52544	1	05/15/2017	09:00	SPEC06	DIW
1708520-CCB1	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1712969-06	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW

Method ID: i376.2 Sulfide
Instrument: SPEC06
Run Date: 05/15/2017
Run Number: 1
Full XLS File Name: W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 05-15-17 #01.xls

Mult Factor: 1
IR Blank Subtraction: 0
Digits Past Decimal (IR): 5
Use PTP Below Std1: Y
Use PTP Below Std2: N

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1713131-01	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1713132-01	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1713133-01	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1713134-01	0.022	0.03143	2	05/15/2017	09:00	SPEC06	DIW
1713059-04	0.011	0.01571	1	05/15/2017	09:00	SPEC06	DIW
B[E1634-DUP1	0.010	0.01429	1	05/15/2017	09:00	SPEC06	DIW
B[E1634-MS1	0.205	0.31472	1	05/15/2017	09:00	SPEC06	DIW
B[E1634-MSD1	0.209	0.32110	1	05/15/2017	09:00	SPEC06	DIW
1713059-05	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1708520-CCV2	0.337	0.52544	1	05/15/2017	09:00	SPEC06	DIW
1708520-CCB2	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1713059-06	0.020	0.02857	10	05/15/2017	09:00	SPEC06	DIW
1713059-08	0.018	0.02571	1	05/15/2017	09:00	SPEC06	DIW
1713059-09	0.004	0.00571	1	05/15/2017	09:00	SPEC06	DIW
1713059-10	0.021	0.03000	1	05/15/2017	09:00	SPEC06	DIW
1712656-01	0.028	0.04000	10	05/15/2017	09:00	SPEC06	DIW
1712831-01	0.029	0.04143	20	05/15/2017	09:00	SPEC06	DIW
1712847-01	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW
1712968-01	0.024	0.03429	20	05/15/2017	09:00	SPEC06	DIW
1708520-CCV3	0.337	0.52544	1	05/15/2017	09:00	SPEC06	DIW
1708520-CCB3	0.000	0.00000	1	05/15/2017	09:00	SPEC06	DIW

WET CHEMISTRY RUNLOG

BC LABORATORIES, INC.

Reveiwed by: **Date :**

Run ID # (01)

- ❑ W-Hz-Sulfide-376.1
- ❑ W-Hz-Sulfide-376.2 Sulfide

CONC	RESPONSE	IDENTIFICATION #
0.05	0.035	S- 051517 0.05
0.1	0.069	S- 0.1
0.2	0.139	S- 0.2
0.5	0.338	S- 0.5
1.0	0.625	S- 1.0

Analyte:	Sulfide	**ml Spike:**	2.5 mls
Method:	376.2	**Conc Spike:**	5 mg/L
Analyst:	DIW	**ml Sample:**	22.5 mls
Date:	05/15/17	**Spike ID #:**	S- 050517 5-
Time:	09:00	**BS1 ID #:**	S- 5-
Corr Coef:	0.99915	**ICV #:**	S- 5-

Comments:

	Lab ID #	Dil	Abs/tit	Result	P/R		Lab ID #	Dil	Abs/tit	Result	P/R
1	ICV		0.311			21	Dup		0.010		
2	ICB		0.000			22	MS		0.205		
3	BS1		0.337			23	MSD		0.209		
4	BLK1		0.000			24	13059-5 H	(T)	0.049	0.000	✓
5	D12969-1 H		0.000		✓	25	CCV2		0.337		
6	Dup		0.006			26	CCB2		0.000		
7	MS		0.286			27	13059-6 H	(T) x10	0.052	0.020	✓
8	MSD		0.290			28	-8 H	(T)	0.042	0.018	✓
9	D12969-2 H		0.000		✓	29	-9 H	(T)	0.094	0.004	✓
10	-3 H		0.000		✓	30	-10 H	(T)	0.104	0.021	✓
11	-4 H		0.000		✓	31	12656-1 M	(T) x10	0.059	0.028	✓
12	-5 H		0.000		✓	32	12831-1 L	(T) x20	0.043	0.029	✓
13	CCV1		0.337			33	12847-1 L		0.000		✓
14	CCB1		0.000			34	12968-1 M	(T) x20	0.040	0.024	✓
15	D12969-6 H		0.000		✓	35	CCV3		0.337		
16	D13131-1 R		0.000		✓	36	CCB3		0.000		
17	D13132-1 R		0.000		✓	37	Blank Subtract				
18	D13133-1 R		0.000		✓	38	13134-1	x2	0.022		
19	D13134-1 O	(T) x2	0.044	0.022	✓	39	13059-5		0.049		
20	13059-4 H		0.011		✓	40	-6	x10	0.032		

Batch # BLE 1630 **Batch #** BLE 1634 **Sequence #** 1708520

13059-8 = 0.024
-9 = 0.090
-10 = 0.083
12656-1 x10 = 0.031

12831-1 x20 = 0.014
12968-1 x20 = 0.016

[S:\MyDOCS\WordPerfect\LAB_DOCS\LOGBOOKS\WCSLOG]

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 6/13/2017 3:45:18PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.