N90845.AR.001849
NWIRP BETHPAGE
5090.3a

VALIDATED DATA PACKAGE, SI4462, NWIRP BETHPAGE NY
7/20/2015
KATAHDIN ANALYTICAL SERVICES, INC.

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE15 SDG NO. 514462 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000004	✓	
2. **SDG Case Narrative**	0000007	0000009	✓	
3. **SDG Cover Sheet/Traffic Report**	0000005	0000006	✓	
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000026	0000028	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	—	—	—	
Method Blank Summary (Form IV VOA)	0000029	0000030	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000031	0000033	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000034	0000035	✓	
b. Sample Data	0000036	0000142		
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000143	0000208		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	0000209	0000217	✓	
Blank Data	0000218	0000227	✓	
Martix Spike/Matrix Spike Duplicate Data	0000228	0000249	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. S14462 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOS FROM	PAGE NOS TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000254	0000256	—	
MS/MSD Summary (Form III SV)	—	—	—	
Method Blank Summary (Form IV SV)	0000257	0000257	—	
GC/MS Instrument Performance Check (Form V SV)	0000258	0000259	—	
Internal Standard Area and RT Summary (Form VIII SV)	0000260	0000260	—	
b. Sample Data	0000261	0000300		
TCL Results - (Form I SV-1, SV-2)			—	
Tentatively Identified Compounds (Form I SV-			—	
Reconstructed total ion chromatograms (RIC) for each sample			—	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			—	
Quantitation reports			—	
Mass Spectra of TICs with three best library matches			—	
GPC chromatograms (if GPC is required)			—	
c. Standards Data (All Instruments)	0000301	0000330		
Initial Calibration Data (Form VI SV-1, SV-2)			—	
RICs and Quan Reports for all Standards			—	
Continuing Calibration Data (Form VII SV-1, SV-			—	
RICs and Quantitation Reports for all Standards			—	
d. Raw QC Data				
DFTPP	—	—	—	
Blank Data	0000331	0000334	—	
Matrix Spike/Matrix Spike Duplicate Data	0000335	0000342	—	
e. ~~Raw GPC Data~~ Logbooks	0000343	0000346	—	
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	NA	NA	NA	
MS/MSD Duplicate Summary (Form III PEST)	↓	↓	↓	
Method Blank Summary (Form IV PEST)				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. S14462 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	NA	NA	NA	
f. Raw Florisil Data				
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages-VOA	0000250	0000253	✓	
Internal sample and sample extract transfer chain-of-custody records	0000018	0000025	—	
Screening records	NA	NA	NA	
All instrument output, including strip charts from screening activities (describe or list)				
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments _____)				
Chain-of-Custody Records	0000015	0000015	✓	
Sample Tags			—	
Sample Log-in Sheet (Lab & DC1)	NA	NA	NA	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000011	0000014	—	
Login Chain of Custody	0000016	0000017	—	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
	NA	NA	NA	
10. **Other Records** (describe or list)				
Telephone Communication Log				
11. **Comments:**				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. S14462 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	Heather Manzlom (Signature)	Heather Manzlom (Printed Name/Title)	7-20-15 (Date)
Verified by: (CLP Lab)	(Signature)	(Printed Name/Title)	(Date)
Audited by: (EPA)	(Signature)	(Printed Name/Title)	(Date)

ENSAFE
NAVY CLEAN WE15-03-06 NWIRP
BETHPAGE, NY
SI4462

KATAHDIN ANALYTICAL SERVICES, LLC
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ENSAFE
NAVY CLEAN WE15-03-06 NWIRP BETHPAGE, NY
SI4462

Sample Receipt

The following samples were received on June 24, 2015 and were logged in under Katahdin Analytical Services work order number SI4462 for a hardcopy due date of July 13, 2015.

KATAHDIN Sample No.	AECOM Sample Identification
SI4462-1	RE104D3-GW-062315
SI4462-2	RE104D2-GW-062315
SI4462-3	RE104D1-GW-062315
SI4462-4	RE103D1-GW-062215
SI4462-5	RE103D2-GW-062215
SI4462-6	RE103D3-GW-062215
SI4462-7	DUPLICATE-GW-062215
SI4462-11	RE105D1-GW-062315
SI4462-12	RE105D2-GW-062315
SI4462-13	TB-062315

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin.** This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SI4462 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8260B Analysis

Sample SI4462-4 was manually integrated for the target analyte 1,1,1-trichloroethane. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The independent check standard (file P1539A) associated with the initial calibration on the P instrument on 06/22/2015 had a high concentration for the target analyte chloroethane, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The Independent Check Report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated.

The calibration verification standard (CV) (file P1636) had high responses for the target analytes acetone, 4-methyl-2-pentanone and 2-hexanone that resulted in %D's that exceeded the DoD QSM acceptance limits of 20%.

The target analyte methylene chloride was detected below ½ the reporting limit in the method blank WG165462-2. According to the DoD QSM section D.1.1.1, a method blank is considered to be contaminated if the concentration of any target analyte in the blank exceeds ½ the reporting limit. Since the method blank was acceptable, no further action was taken.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are based on DoD QSM acceptance limits for the full list of spiked compounds and laboratory established acceptance limits for all other analytes. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

8270SIM 1,4-Dioxane Analysis

Sample SI4462-2 was manually integrated for the target analyte 1,4-dioxane. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The MS/MSD WG165450-3 and 4 had recoveries for the spiked analyte 1,4-dioxane that were non-calculable and reported as 0% recovery due to the concentration in the native sample being higher than in the MS and MSD. The concentrations of 1,4-dioxane in the native sample and MS/MSD were outside of the calibration range. The laboratory policy is not to reanalyze MS/MSD's for dilutions. The high concentrations likely contributed to the recoveries of this analyte not being calculable.

There were no other protocol deviations or observations noted by the organics laboratory staff.

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 has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Jennifer Obrin for
07.20.15
Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	Bethpage	KAS PM:	JO	Sampled By:	Client
Project:		KIMS Entry By:	DW	Delivered By:	FedEx
KAS Work Order#:	S14462 / SI4496	KIMS Review By:		Received By:	AP
SDG #:	Cooler: 1 of ~~3~~ 4			Date/Time Rec.:	6/24/15 0920

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 1.6
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?	✓				
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved?					
Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	Bethpage	KAS PM:	JO	Sampled By:	Client
Project:		KIMS Entry By:	DW	Delivered By:	FedEx
KAS Work Order#:	514462 / SI4496	KIMS Review By:	JO	Received By:	AP
SDG #:	Cooler: 2 of 4			Date/Time Rec.:	6/24/15 0920

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 2.4
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	Bethpage	KAS PM:	JO	Sampled By:	Client
Project:		KIMS Entry By:	DW	Delivered By:	FedEx
KAS Work Order#:	SI4462/SI4496	KIMS Review By:	JP	Received By:	AP
SDG #:	Cooler: 3 of ~~3~~ 4			Date/Time Rec.:	6/24/15 0920

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 1.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	Bethpage	KAS PM:	JO	Sampled By:	Client
Project:		KIMS Entry By:	DLW	Delivered By:	FedEx
KAS Work Order#:	SI4462 / SI4496	KIMS Review By:	JO	Received By:	GW
SDG #:	Cooler: 4 of 4			Date/Time Rec.:	6-24-15 / 0920

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 3.8
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals (except Hg) analysis.
6. Volatiles: **Aqueous:** No bubble larger than a pea?	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included ✓				
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

SI4462 / SI4496

SI4496 / SI4462

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No.: | Page 1 of 1

Project Name: NW IRP Bethpage | PO No.: | Project No. 6026652 Phase FY-GW3/0

Site Location: Bethpage

CTO No. | RC Project Manager: Caldwell

Sampler/Site Phone# HICKS/CHRISTOPHER/WRIGHT 952 221 9961

Lab Name: Katahdin | Turnaround Time(specify):

Sample Analysis Requested (*Enter number of containers for each test*)

(3)→ HCl

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	VOC	1,4 Dioxane	Extra Volume for MS/MSD	HOLD
	RE104D3-GW-062315		062315	1010	WG	N			3	2		
	RE104D2-GW-062315		062315	0950	WG	N			3	2		
	RE104D1-GW-062315		062315	1027	WG	N			3	2		
*	RE103D1-GW-062215		062215	1245	WG	N			9	6	X	
	RE103D2-GW-062215		062215	1415	WG	N			3	2		
	RE103D3-GW-062215		062215	1420	WG	N			3	2		
	~~RE~~ DUPLICATE-GW-062215		062215	1030	WG	FD			3	2		
	TT101D-GW-062215		062215	0948	WG	N			2	2		
	TT101D1-GW-062215		062215	0940	WG	N			3	2		
	TT101D2-GW-062215		062215	0925	WG	N			3	2		
	RE105D1-GW-062315		062315	1410	WG	N			3	2		
	RE105D2-GW-062315		062315	1420	WG	N			3	2		

Field **Comments:** TB - 062315 2-9-15

* RE103D1-GW-062215 has extra volume for MS and MSD

Lab **Comments:** 1145 WG 3

Sample Shipment and Delivery Details

Number of coolers in shipment: 4

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1	062315	1600	1 fedex		
2			2	62415	0900
3			3		

Samples Iced?(check) Yes X No____

Method of Shipment: FedEx

Airbill No: 807786217561

Date Shipped: 062315

(1) **AA**=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) **Sample Type: AB**=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) **Preservative added: HA**=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, If **NO preservative** added leave blank

Rev 5/12

CCC015

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 25, 2015
06:25 AM

Login Number: SI4462

Account: ENSAFE001
ENSAFE

Web

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: AECOM-BETHPAGE

Login Information:

ANALYSIS INSTRUCTIONS	:	Form 1's due in 48 hrs for VOCs. Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ. SIM is 1,4-Dioxane only.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	1.6, 2.4, 1.9, 3.8
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	DEW
PM	:	JO
PROJECT NAME	:	Navy Clean WE15-03-06 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send Hardcopy and CD to Dana. Upload PDF and EDD to SDS folder. Email level 2 report to Dana. Email invoice to purchasing@ensafe.com.

Laboratory Sample ID	Client Sample Number	Collect Date/Time	SDG ID / SDG STATUS	Receive Date	PR	Verbal Date	Due Date	Mailed
SI4462-1	RE104D3-GW-062315	23-JUN-15 10:10		24-JUN-15		**26-JUN-15**	13-JUL-15	
SI4462-2	RE104D2-GW-062315	23-JUN-15 09:50		24-JUN-15		**26-JUN-15**	13-JUL-15	
SI4462-3	RE104D1-GW-062315	23-JUN-15 10:27		24-JUN-15		**26-JUN-15**	13-JUL-15	
SI4462-4	RE103D1-GW-062215	22-JUN-15 12:45		24-JUN-15		**26-JUN-15**	13-JUL-15	
SI4462-5	RE103D2-GW-062215	22-JUN-15 14:15		24-JUN-15		**26-JUN-15**	13-JUL-15	
SI4462-6	RE103D3-GW-062215	22-JUN-15 14:20		24-JUN-15		**26-JUN-15**	13-JUL-15	
SI4462-7	DUPLICATE-GW-062215	22-JUN-15 10:30		24-JUN-15		**26-JUN-15**	13-JUL-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	07-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	30-JUN-15	1L N-Amber Glass		

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	07-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	30-JUN-15	1L N-Amber Glass		

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	07-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	30-JUN-15	1L N-Amber Glass		

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	06-JUL-15	40mL Vial+HCl		**MS/MSD**
Aqueous	S	SW8270SIM-S	29-JUN-15	1L N-Amber Glass		

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	06-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	29-JUN-15	1L N-Amber Glass		

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	06-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	29-JUN-15	1L N-Amber Glass		

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	06-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	29-JUN-15	1L N-Amber Glass		

06-25-15

0000016

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 25, 2015
06:25 AM

Login Number: SI4462

Quote/Incoming: AECOM-BETHPAGE

Account: ENSAFE001 Web
ENSAFE

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI4462-11	RE105D1-GW-062315	23-JUN-15 14:10	24-JUN-15		**26-JUN-15**	13-JUL-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	07-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	30-JUN-15	1L N-Amber Glass		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI4462-12	RE105D2-GW-062315	23-JUN-15 14:20	24-JUN-15		**26-JUN-15**	13-JUL-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	07-JUL-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	30-JUN-15	1L N-Amber Glass		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI4462-13	TB-062315	23-JUN-15 00:00	24-JUN-15		**26-JUN-15**	13-JUL-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	07-JUL-15	40mL Vial+HCl		

Total Samples: ***10*** ***Total Analyses:*** ***19***

QP
06.25.15

0000017

Katahdin Analytical Services, Inc.

Container Transfer History for SI4462

Samplenum SI4462-1

Container Id SI4462-1A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-1B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-1C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-1D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4462-1E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-2

Container Id SI4462-2A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-2B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-2C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-2D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4462-2E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-3

Container Id SI4462-3A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

0000018

Katahdin Analytical Services, Inc.

Container Transfer History for SI4462

Samplenum SI4462-3

Container Id SI4462-3A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-3B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-3C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-3D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4462-3E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-4

Container Id SI4462-4A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-4B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
26-JUN-15 12:19	VOA_WALK-IN	GC/MS	EEVERETT	N	
29-JUN-15 14:41	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-4C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-4D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-4E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-4F **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments

0000019

Katahdin Analytical Services, Inc.
Container Transfer History for SI4462

Samplenum SI4462-4

Container Id SI4462-4F **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-4G **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-4H **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-4I **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-4J **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-4K **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-4L **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4462-4M **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-4N **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4462-4O **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Samplenum SI4462-5

Container Id SI4462-5A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	

000020

Katahdin Analytical Services, Inc.

Container Transfer History for SI4462

Samplenum SI4462-5

Container Id SI4462-5A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-5B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
26-JUN-15 12:19	VOA_WALK-IN	GC/MS	EEVERETT	N	
29-JUN-15 14:41	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-5C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-5D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4462-5E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-6

Container Id SI4462-6A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-6B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
26-JUN-15 12:19	VOA_WALK-IN	GC/MS	EEVERETT	N	
29-JUN-15 14:41	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-6C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-6D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-6E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Samplenum SI4462-7

000024

Katahdin Analytical Services, Inc.

Container Transfer History for SI4462

Samplenum SI4462-7

Container Id SI4462-7A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-7B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
26-JUN-15 12:19	VOA_WALK-IN	GC/MS	EEVERETT	N	
29-JUN-15 14:41	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-7C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-7D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-7E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Samplenum SI4462-8

Container Id SI4462-8A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-8B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-8D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-8E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-9

Container Id SI4462-9A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-9B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments

Katahdin Analytical Services, Inc.

Container Transfer History for SI4462

Samplenum SI4462-9

Container Id SI4462-9B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-9C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-9D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-9E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-10

Container Id SI4462-10A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-10B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-10C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-10D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-10E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-11

Container Id SI4462-11A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-11B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-11C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments

Katahdin Analytical Services, Inc.

Container Transfer History for SI4462

Samplenum SI4462-11

Container Id SI4462-11C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-11D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4462-11E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Samplenum SI4462-12

Container Id SI4462-12A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-12B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
26-JUN-15 12:19	VOA_WALK-IN	GC/MS	EEVERETT	N	
29-JUN-15 14:41	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-12C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Container Id SI4462-12D **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	

Container Id SI4462-12E **Containertype** **1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:47	LOGIN	WALK-IN	JSPEARIN	N	
25-JUN-15 12:06	WALK-IN	ORGANIC PREP	HGOULD	N	
25-JUN-15 12:07	ORGANIC PREP	CONSUMED	HGOULD	N	

Samplenum SI4462-13

Container Id SI4462-13A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	
25-JUN-15 12:00	VOA_WALK-IN	GC/MS	EEVERETT	N	
26-JUN-15 14:25	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4462-13B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

Katahdin Analytical Services, Inc.

Container Transfer History for SI4462

Samplenum SI4462-13

Container Id SI4462-13C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
24-JUN-15 12:51	LOGIN	VOA_WALK-IN	JSPEARIN	N	

0000025

VOLATILES DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI4462

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
RE104D3-GW-062315	SI4462-1		90.8		91.1		97.2		94.3	
RE105D1-GW-062315	SI4462-11		91.1		91.6		100.		93.2	
RE105D2-GW-062315	SI4462-12		94.7		89.5		96.2		94.7	
RE105D2-GW-062315	SI4462-12DL		90.4		88.6		95.4		91.9	
TB-062315	SI4462-13		92.5		90.0		94.3		95.0	
RE104D2-GW-062315	SI4462-2		91.8		88.4		96.7		93.9	
RE104D1-GW-062315	SI4462-3		91.3		87.0		93.7		93.6	
RE103D1-GW-062215	SI4462-4		95.6		89.7		96.2		97.3	
RE103D1-GW-062215	SI4462-4DL		93.7		90.2		97.0		95.7	
RE103D2-GW-062215	SI4462-5		100.		96.6		102.		101.	
RE103D2-GW-062215	SI4462-5DL		91.9		90.9		99.2		94.0	
RE103D3-GW-062215	SI4462-6		98.6		98.1		104.		100.	
RE103D3-GW-062215	SI4462-6DL		87.4		87.5		95.3		89.1	
DUPLICATE-GW-062215	SI4462-7		88.7		90.7		96.0		91.4	
DUPLICATE-GW-062215	SI4462-7DL		91.8		89.2		94.9		92.9	
Laboratory Control S	WG165462-1		93.2		91.8		90.0		94.5	
Method Blank Sample	WG165462-2		95.0		91.9		96.1		96.1	
Laboratory Control S	WG165523-1		101.		99.0		99.4		103.	
Method Blank Sample	WG165523-2		96.8		94.1		98.5		98.1	
Matrix Spike	WG165523-6		95.4		91.3		94.2		94.6	
Matrix Spike Duplica	WG165523-7		94.4		90.9		95.3		95.9	

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : SI4462
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG165462-2
Lab File ID : P1614.D
Date Analyzed : 25-JUN-15
Instrument ID : GCMS-P
Time Analyzed : 13:03
Heated Purge : No

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG165462-1	P1611.D	06/25/15	11:30
TB-062315	SI4462-13	P1620.D	06/25/15	15:40
RE104D3-GW-062315	SI4462-1	P1623.D	06/25/15	16:58
RE104D2-GW-062315	SI4462-2	P1624.D	06/25/15	17:24
RE104D1-GW-062315	SI4462-3	P1625.D	06/25/15	17:50
RE103D1-GW-062215	SI4462-4	P1626.D	06/25/15	18:19
RE103D2-GW-062215	SI4462-5	P1627.D	06/25/15	18:47
RE103D3-GW-062215	SI4462-6	P1628.D	06/25/15	19:16
DUPLICATE-GW-062215	SI4462-7	P1629.D	06/25/15	19:44
RE105D1-GW-062315	SI4462-11	P1630.D	06/25/15	20:12
RE105D2-GW-062315	SI4462-12	P1631.D	06/25/15	20:40

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : SI4462
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG165523-2
Lab File ID : P1640.D
Date Analyzed : 26-JUN-15
Instrument ID : GCMS-P
Time Analyzed : 11:43
Heated Purge : No

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG165523-1	P1637.D	06/26/15	09:52
RE103D1-GW-062215	SI4462-4DL	P1652.D	06/26/15	16:55
RE103D2-GW-062215	SI4462-5DL	P1653.D	06/26/15	17:21
RE103D3-GW-062215	SI4462-6DL	P1654.D	06/26/15	17:47
DUPLICATE-GW-062215	SI4462-7DL	P1655.D	06/26/15	18:15
RE105D2-GW-062315	SI4462-12DL	P1656.D	06/26/15	18:43
Matrix Spike	WG165523-6	P1657.D	06/26/15	19:10
Matrix Spike Duplica	WG165523-7	P1658.D	06/26/15	19:38

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : PB295.D
Instrument ID : GCMS-P

SDG : SI4462
Date Analyzed : 22-JUN-15
Time Analyzed : 09:27
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.5		
75	30.0 - 60.0% of mass 95	50.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.0		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	65.3		
175	5.0 - 9.0% of mass 174	5.6	8.62	1
176	95.0 - 101.0% of mass 174	62.5	95.70	1
177	5.0 - 9.0% of mass 176	4.3	6.90	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG165276-4	P1533.D	06/22/15	10:02
Initial Calibration	WG165276-3	P1534.D	06/22/15	10:29
Initial Calibration	WG165276-2	P1535.D	06/22/15	10:55
Initial Calibration	WG165276-1	P1536.D	06/22/15	11:21
Initial Calibration	WG165276-6	P1537.D	06/22/15	11:47
Initial Calibration	WG165276-5	P1538.D	06/22/15	12:13
Independent Source	WG165276-7	P1539A.D	06/22/15	12:59

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : PB298.D
Instrument ID : GCMS-P

SDG : SI4462
Date Analyzed : 25-JUN-15
Time Analyzed : 09:09
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	24.9		
75	30.0 - 60.0% of mass 95	53.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.6		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	61.3		
175	5.0 - 9.0% of mass 174	4.6	7.55	1
176	95.0 - 101.0% of mass 174	59.8	97.63	1
177	5.0 - 9.0% of mass 176	4.2	6.98	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG165462-4	P1610.D	06/25/15	10:46
Laboratory Control S	WG165462-1	P1611.D	06/25/15	11:30
Method Blank Sample	WG165462-2	P1614.D	06/25/15	13:03
TB-062315	SI4462-13	P1620.D	06/25/15	15:40
RE104D3-GW-062315	SI4462-1	P1623.D	06/25/15	16:58
RE104D2-GW-062315	SI4462-2	P1624.D	06/25/15	17:24
RE104D1-GW-062315	SI4462-3	P1625.D	06/25/15	17:50
RE103D1-GW-062215	SI4462-4	P1626.D	06/25/15	18:19
RE103D2-GW-062215	SI4462-5	P1627.D	06/25/15	18:47
RE103D3-GW-062215	SI4462-6	P1628.D	06/25/15	19:16
DUPLICATE-GW-062215	SI4462-7	P1629.D	06/25/15	19:44
RE105D1-GW-062315	SI4462-11	P1630.D	06/25/15	20:12
RE105D2-GW-062315	SI4462-12	P1631.D	06/25/15	20:40

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : PB299.D
Instrument ID : GCMS-P

SDG : SI4462
Date Analyzed : 26-JUN-15
Time Analyzed : 08:34
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.6		
75	30.0 - 60.0% of mass 95	53.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.7		
173	Less than 2.0% of mass 174	0.5	0.85	1
174	Greater than 50.0% of mass 95	62.9		
175	5.0 - 9.0% of mass 174	3.6	5.74	1
176	95.0 - 101.0% of mass 174	62.0	98.61	1
177	5.0 - 9.0% of mass 176	4.1	6.55	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG165523-4	P1636.D	06/26/15	09:06
Laboratory Control S	WG165523-1	P1637.D	06/26/15	09:52
Method Blank Sample	WG165523-2	P1640.D	06/26/15	11:43
RE103D1-GW-062215	SI4462-4DL	P1652.D	06/26/15	16:55
RE103D2-GW-062215	SI4462-5DL	P1653.D	06/26/15	17:21
RE103D3-GW-062215	SI4462-6DL	P1654.D	06/26/15	17:47
DUPLICATE-GW-062215	SI4462-7DL	P1655.D	06/26/15	18:15
RE105D2-GW-062315	SI4462-12DL	P1656.D	06/26/15	18:43
Matrix Spike	WG165523-6	P1657.D	06/26/15	19:10
Matrix Spike Duplica	WG165523-7	P1658.D	06/26/15	19:38

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG165276-4
Lab File ID : P1533.D

SDG: SI4462
Analytical Date: 06/22/15 10:02
Instrument ID: GCMS-P

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	Area	#	RT	Area	#	RT
	Std .	409293		8.72	766451		9.57	699533		13.93
	Upper Limit	818586		9.22	1532902		10.07	1399066		14.43
	Lower Limit	204646.5		8.22	383225.5		9.07	349766.5		13.43
Client Sample ID	Lab Sample ID									
Continuing Calibrati	WG165462-4	389496		8.72	721140		9.57	672051		13.93
Laboratory Control S	WG165462-1	405367		8.72	749436		9.57	690352		13.93
Method Blank Sample	WG165462-2	382704		8.72	703198		9.58	648333		13.94
TB-062315	SI4462-13	380031		8.72	705476		9.58	651322		13.93
RE104D3-GW-062315	SI4462-1	368161		8.72	693092		9.58	633648		13.93
RE104D2-GW-062315	SI4462-2	371963		8.72	682774		9.58	632657		13.94
RE104D1-GW-062315	SI4462-3	377193		8.72	695850		9.58	640214		13.93
RE103D1-GW-062215	SI4462-4	374079		8.72	697259		9.58	648967		13.93
RE103D2-GW-062215	SI4462-5	367436		8.72	677460		9.58	625283		13.93
RE103D3-GW-062215	SI4462-6	365472		8.72	693370		9.58	622762		13.94
DUPLICATE-GW-062	SI4462-7	365620		8.72	689626		9.58	625413		13.93
RE105D1-GW-062315	SI4462-11	357634		8.72	682690		9.58	610646		13.93
RE105D2-GW-062315	SI4462-12	356343		8.72	650381		9.58	618912		13.93
Continuing Calibrati	WG165523-4	356408		8.72	652241		9.58	610881		13.94
Laboratory Control S	WG165523-1	356930		8.72	664238		9.57	604492		13.93
Method Blank Sample	WG165523-2	372264		8.72	681559		9.58	625339		13.93
RE103D1-GW-062215	SI4462-4DL	355181		8.72	659702		9.58	612310		13.93
RE103D2-GW-062215	SI4462-5DL	346521		8.72	658032		9.58	598884		13.93
RE103D3-GW-062215	SI4462-6DL	353816		8.72	669721		9.58	602050		13.93
DUPLICATE-GW-062	SI4462-7DL	354105		8.72	665940		9.58	610824		13.93
RE105D2-GW-062315	SI4462-12DL	346608		8.72	647384		9.58	589506		13.93
Matrix Spike	WG165523-6	358906		8.72	661321		9.58	616710		13.93
Matrix Spike Duplica	WG165523-7	371555		8.72	680024		9.58	632024		13.93

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG165276-4
Lab File ID : P1533.D

SDG: SI4462
Analytical Date: 06/22/15 10:02
Instrument ID: GCMS-P

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	376902		16.92	
	Upper Limit	753804		17.42	
	Lower Limit	188451		16.42	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG165462-4	371689		16.92	
Laboratory Control S	WG165462-1	370514		16.92	
Method Blank Sample	WG165462-2	358000		16.92	
TB-062315	SI4462-13	362898		16.93	
RE104D3-GW-062315	SI4462-1	354232		16.93	
RE104D2-GW-062315	SI4462-2	354997		16.92	
RE104D1-GW-062315	SI4462-3	351829		16.93	
RE103D1-GW-062215	SI4462-4	353992		16.93	
RE103D2-GW-062215	SI4462-5	352111		16.93	
RE103D3-GW-062215	SI4462-6	351654		16.92	
DUPLICATE-GW-062	SI4462-7	351731		16.93	
RE105D1-GW-062315	SI4462-11	343729		16.93	
RE105D2-GW-062315	SI4462-12	346395		16.93	
Continuing Calibrati	WG165523-4	353566		16.92	
Laboratory Control S	WG165523-1	346125		16.92	
Method Blank Sample	WG165523-2	343307		16.92	
RE103D1-GW-062215	SI4462-4DL	342719		16.93	
RE103D2-GW-062215	SI4462-5DL	331686		16.93	
RE103D3-GW-062215	SI4462-6DL	344556		16.93	
DUPLICATE-GW-062	SI4462-7DL	343810		16.92	
RE105D2-GW-062315	SI4462-12DL	330685		16.92	
Matrix Spike	WG165523-6	351214		16.93	
Matrix Spike Duplica	WG165523-7	358078		16.92	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as “U” MDL have a 50% rate for false negatives compared to those results reported as “U” PQL/LOQ or “U” LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

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Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-1
Client ID: RE104D3-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1623.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-1
Client ID: RE104D3-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1623.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		90.8	%					
Toluene-d8		94.3	%					
1,2-Dichloroethane-d4		97.2	%					
Dibromofluoromethane		91.1	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1623.D
Report Date: 26-Jun-2015 06:52

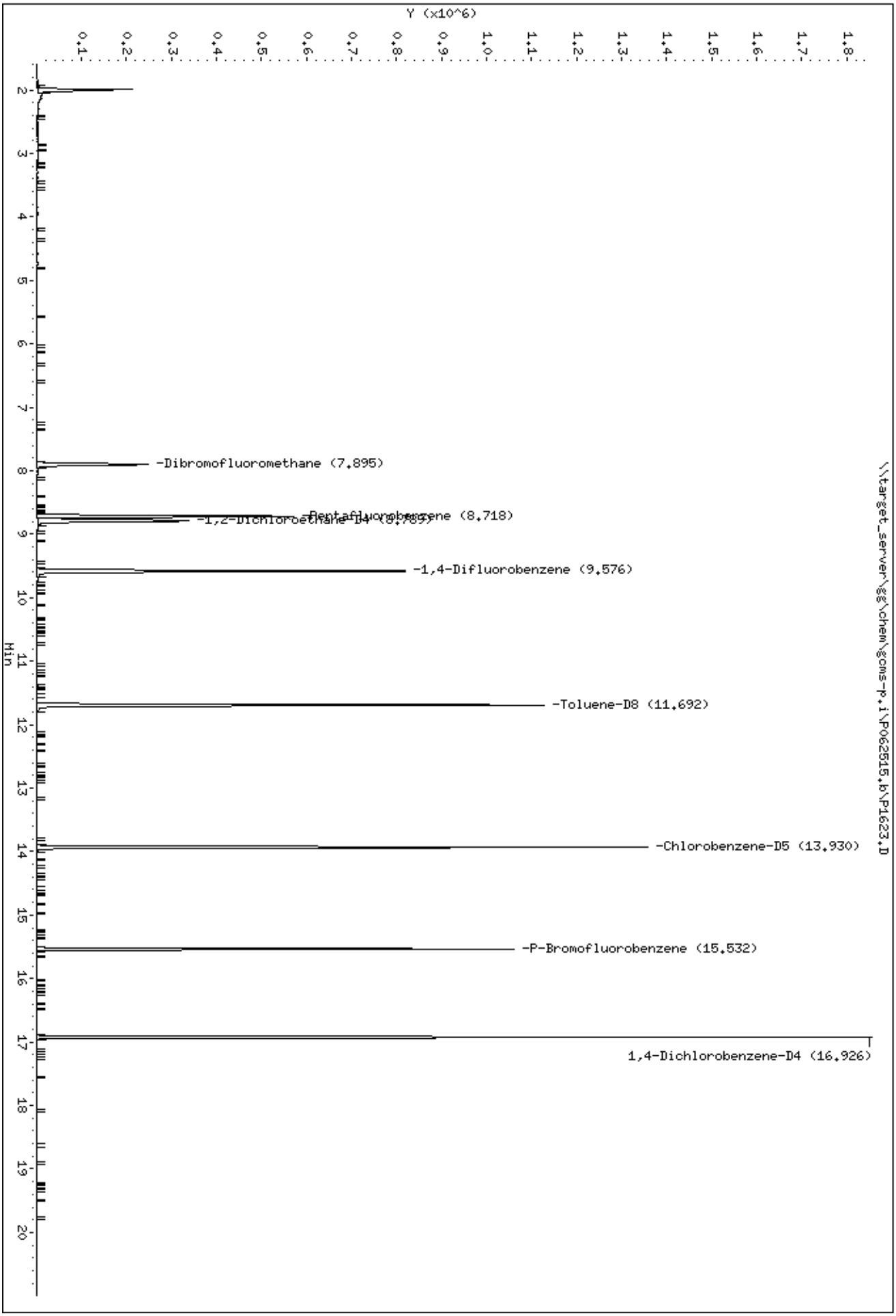
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1623.D
Lab Smp Id: SI4462-1 Client Smp ID: RE104D3-GW-062315
Inj Date : 25-JUN-2015 16:58 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-1
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.895	7.900	(0.906)	181374	45.5456	45.5	
* 42 Pentafluorobenzene	168	8.717	8.715	(1.000)	368161	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.789	8.787	(1.008)	271948	48.6272	48.6	
* 49 1,4-Difluorobenzene	114	9.582	9.573	(1.000)	693092	50.0000		
$ 55 Toluene-D8	98	11.691	11.690	(1.220)	722853	47.1456	47.1	
* 66 Chlorobenzene-D5	117	13.929	13.935	(1.000)	633648	50.0000		
$ 76 P-Bromofluorobenzene	95	15.531	15.537	(1.621)	316518	45.3829	45.4	
* 91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	354232	50.0000		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Client ID: RE104D3-GW-062315
Sample Info: SI4462-1
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1623.D
Y (x10^6)
Min
-Dibromofluoromethane (7.895)
-Pentafluorobenzene (8.718)
-1,2-Dichloroethane-D4 (8.789)
-1,4-Difluorobenzene (9.576)
-Toluene-D8 (11.692)
-Chlorobenzene-D5 (13.930)
-P-Bromofluorobenzene (15.532)
1,4-Dichlorobenzene-D4 (16.926)

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-2
Client ID: RE104D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1624.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.4	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		4.3	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-2
Client ID: RE104D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1624.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	J	1.4	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		91.8	%					
Toluene-d8		93.9	%					
1,2-Dichloroethane-d4		96.7	%					
Dibromofluoromethane		88.4	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1624.D
Report Date: 26-Jun-2015 06:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1624.D
Lab Smp Id: SI4462-2 Client Smp ID: RE104D2-GW-062315
Inj Date : 25-JUN-2015 17:24 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-2
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

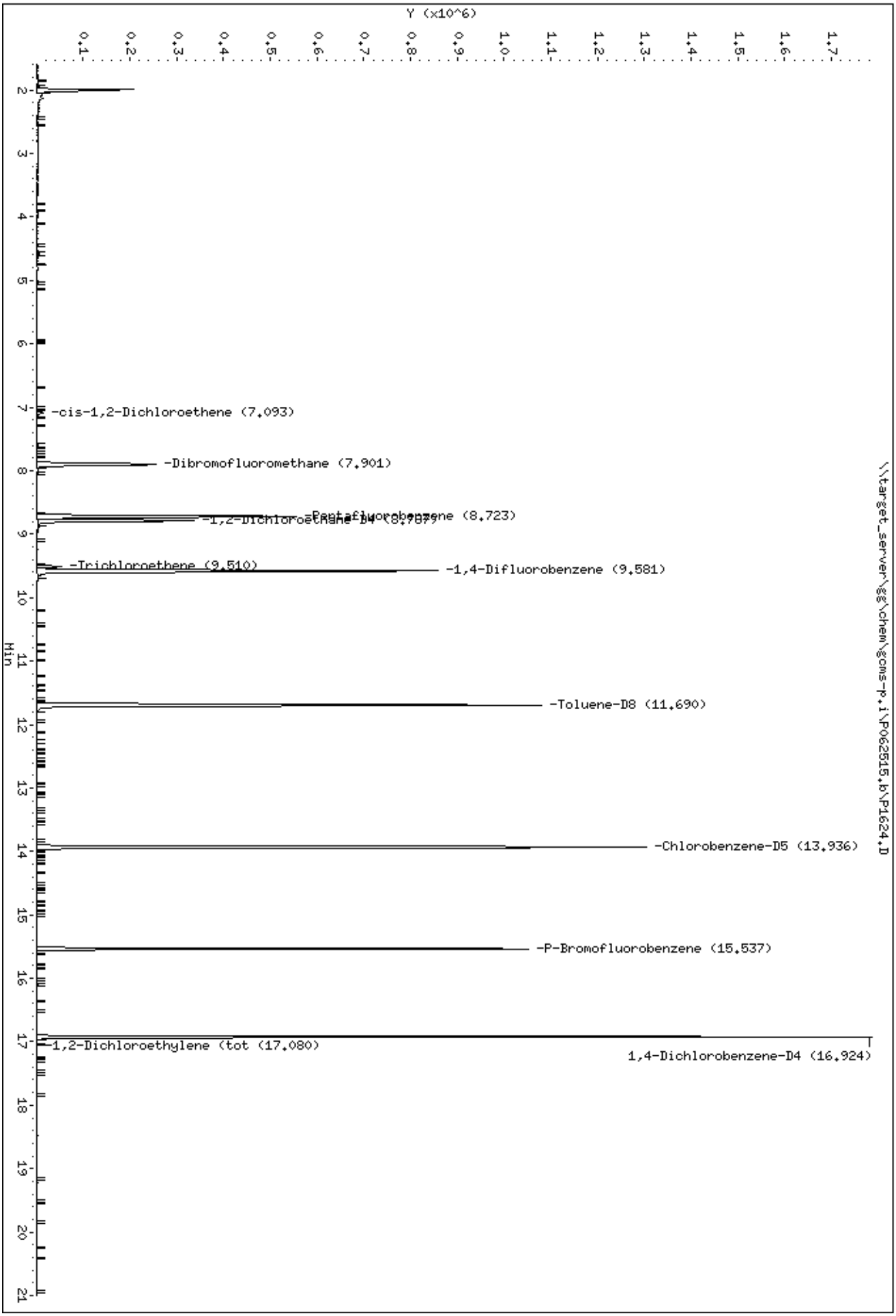
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.813)	6781	1.36191	1.4	
M 30 1,2-Dichloroethylene (total)	96				6781	1.36191	1.4(a)	
$ 37 Dibromofluoromethane	113	7.900	7.900	(0.906)	177876	44.2106	44.2	
* 42 Pentafluorobenzene	168	8.723	8.715	(1.000)	371963	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	273233	48.3576	48.4	
48 Trichloroethene	95	9.516	9.509	(0.993)	18810	4.29924	4.3	
* 49 1,4-Difluorobenzene	114	9.581	9.573	(1.000)	682774	50.0000		
$ 55 Toluene-D8	98	11.697	11.690	(1.221)	708984	46.9398	46.9	
* 66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	632657	50.0000		
$ 76 P-Bromofluorobenzene	95	15.537	15.537	(1.622)	315213	45.8788	45.9	
* 91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	354997	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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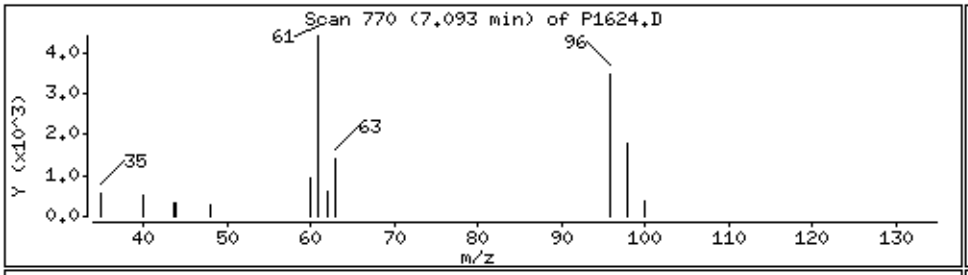
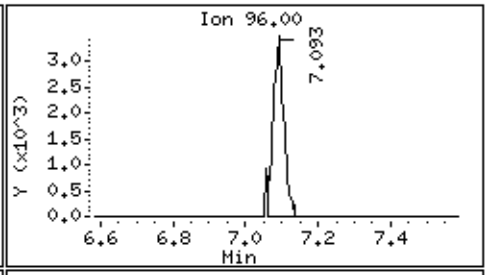
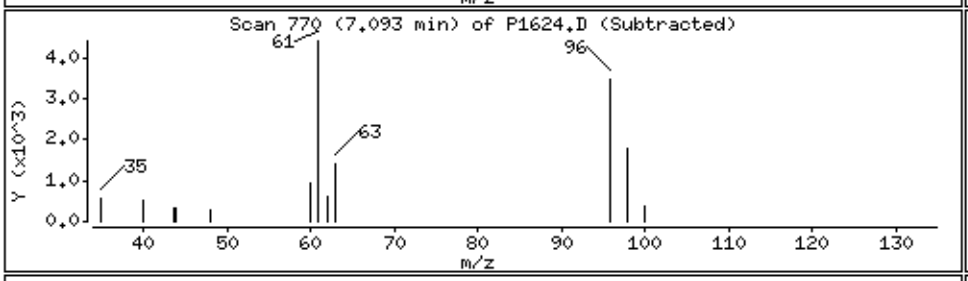
Date : 25-JUN-2015 17:24
Client ID: RE104D2-GW-062315
Sample Info: SI4462-2
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1624.D
Y (x10^6)
Min
-cis-1,2-Dichloroethene (7.093)
-Dibromofluoromethane (7.901)
-1,2-Dichloroethane D4 (8.079)
-Pentafluorobenzene (8.723)
-Trichloroethene (9.510)
-1,4-Difluorobenzene (9.581)
-Toluene-D8 (11.690)
-Chlorobenzene-D5 (13.936)
-P-Bromofluorobenzene (15.537)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.924)

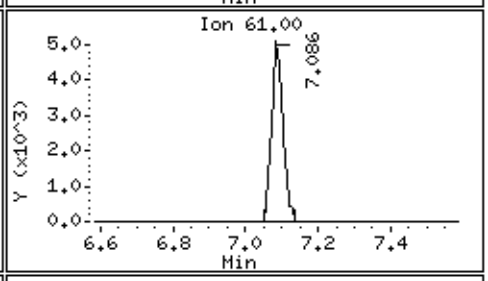
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1624.D
Date : 25-JUN-2015 17:24
Client ID: RE104D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-2

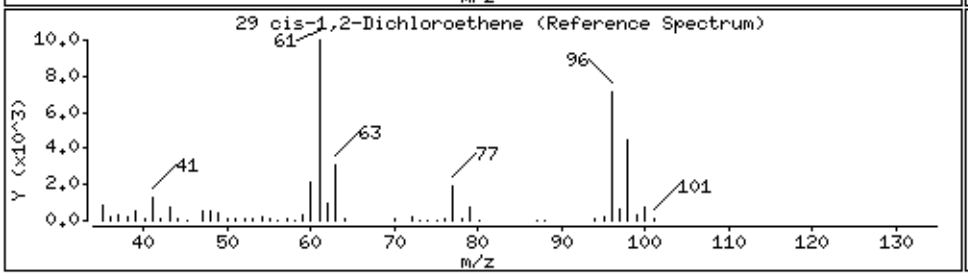
29 cis-1,2-Dichloroethene Concentration: 1.4 ug/l

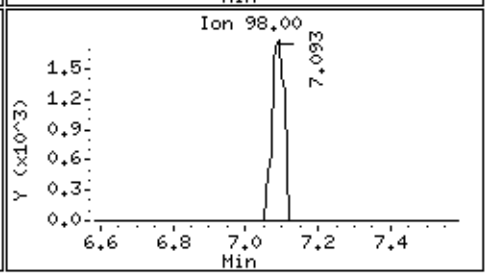




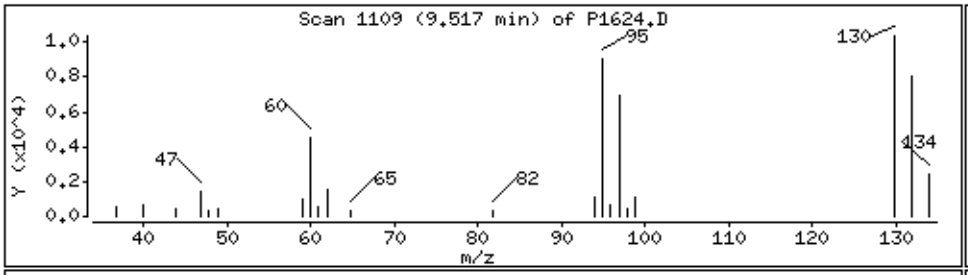


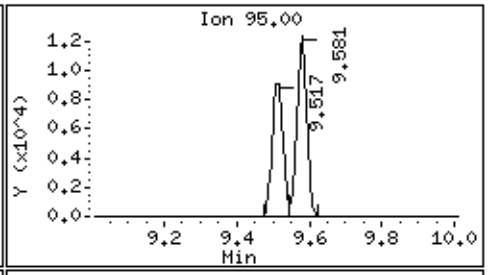


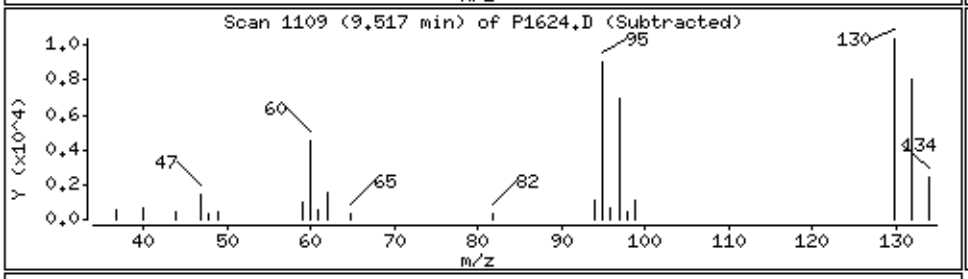


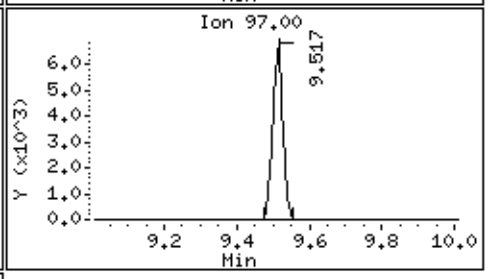


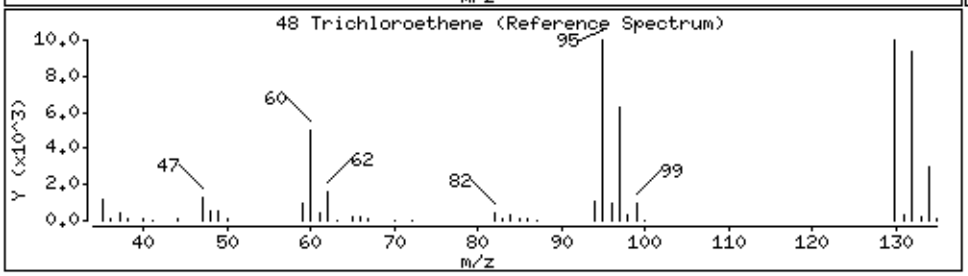
48 Trichloroethene Concentration: 4.3 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-3
Client ID: RE104D1-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1625.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	J	0.38	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	J	0.66	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113		3.7	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.0	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	J	0.22	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		100	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		2.1	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

600 Technology Way
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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-3
Client ID: RE104D1-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1625.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	J	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		91.3	%					
Toluene-d8		93.6	%					
1,2-Dichloroethane-d4		93.7	%					
Dibromofluoromethane		87.0	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1625.D
Report Date: 26-Jun-2015 06:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1625.D
Lab Smp Id: SI4462-3 Client Smp ID: RE104D1-GW-062315
Inj Date : 25-JUN-2015 17:50 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-3
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

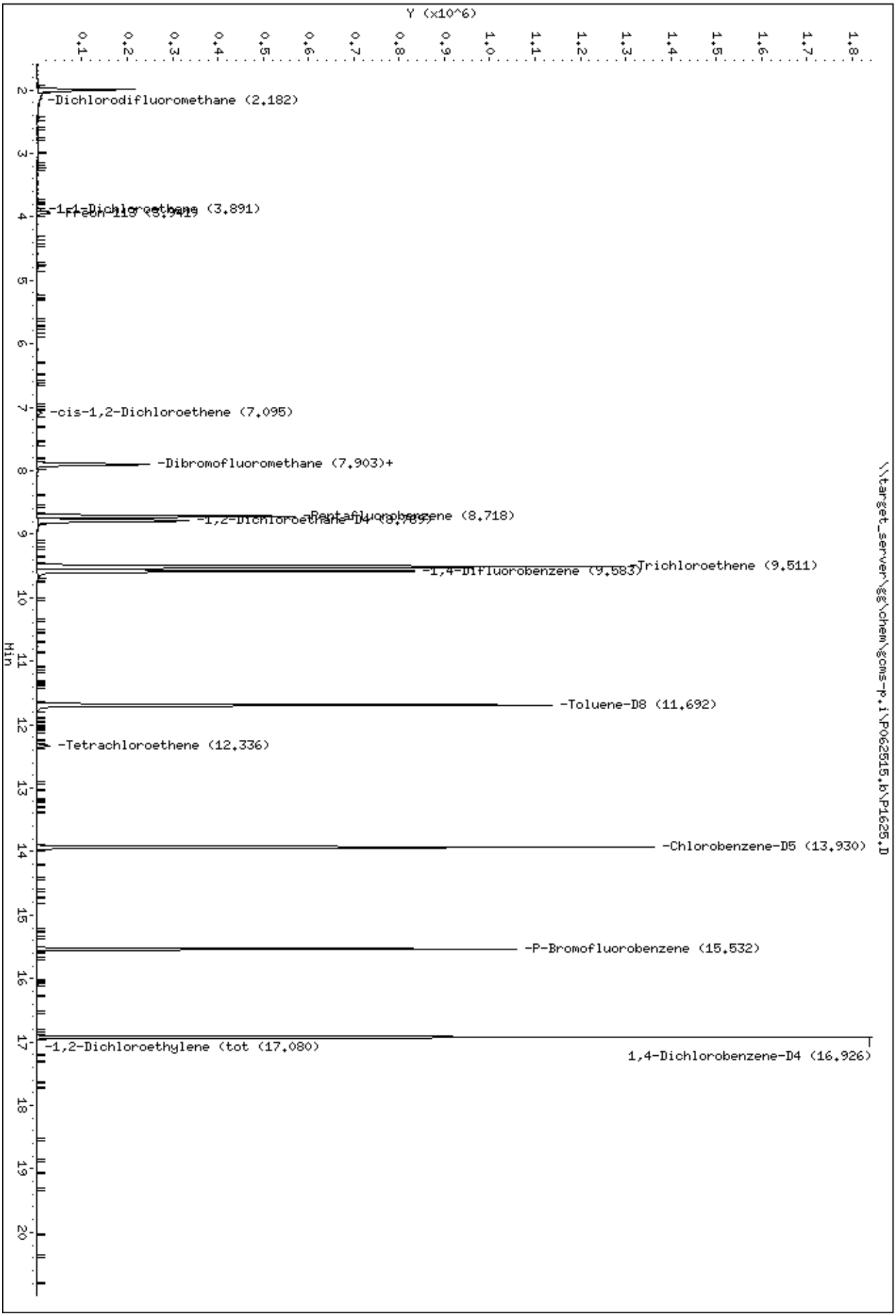
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	1 Dichlorodifluoromethane	85	2.182	2.187	(0.250)	1955	0.37956	0.38(a)	
	9 1,1-Dichloroethene	96	3.891	3.889	(0.446)	2542	0.65626	0.66(a)	
	11 Freon-113	151	3.934	3.939	(0.451)	9172	3.71343	3.7	
	29 cis-1,2-Dichloroethene	96	7.094	7.085	(0.814)	5141	1.01821	1.0	
M	30 1,2-Dichloroethylene (total)	96				5141	1.01821	1.0(a)	
$	37 Dibromofluoromethane	113	7.902	7.900	(0.906)	177562	43.5206	43.5	
	38 1,1,1-Trichloroethane	97	7.931	7.922	(0.910)	1514	0.22283	0.22(a)	
*	42 Pentafluorobenzene	168	8.717	8.715	(1.000)	377193	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.789	8.787	(1.008)	268354	46.8355	46.8	
	48 Trichloroethene	95	9.511	9.509	(0.993)	454643	101.961	102	
*	49 1,4-Difluorobenzene	114	9.582	9.573	(1.000)	695850	50.0000		
$	55 Toluene-D8	98	11.692	11.690	(1.220)	720611	46.8131	46.8	
	59 Tetrachloroethene	164	12.335	12.333	(0.886)	6688	2.10385	2.1	
*	66 Chlorobenzene-D5	117	13.930	13.935	(1.000)	640214	50.0000		
$	76 P-Bromofluorobenzene	95	15.531	15.537	(1.621)	319511	45.6305	45.6	
*	91 1,4-Dichlorobenzene-D4	152	16.926	16.924	(1.000)	351829	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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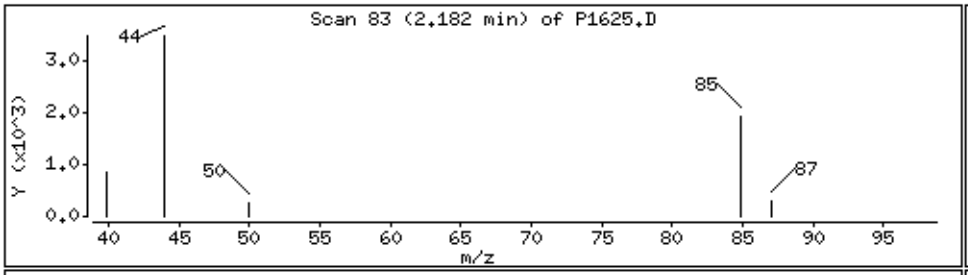
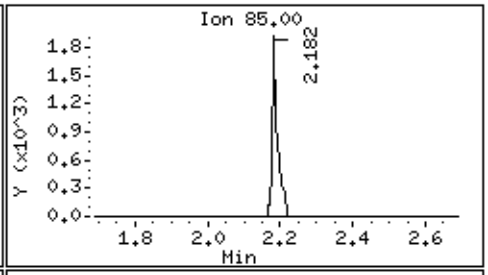
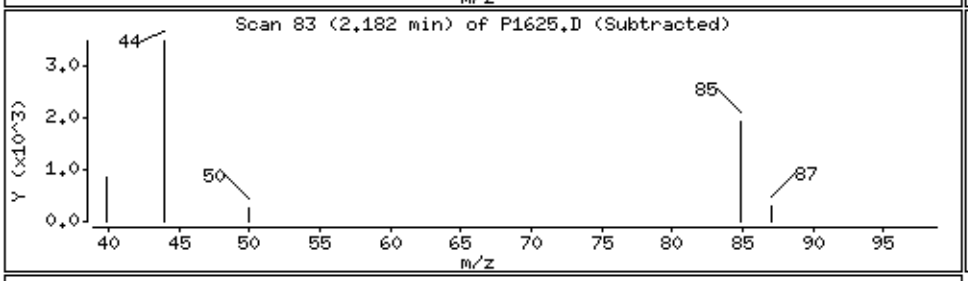
Date : 25-JUN-2015 17:50
Client ID: RE104D1-GW-062315
Sample Info: SI4462-3
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1625.D
Y (x10^6)
Min
-Dichlorodifluoromethane (2.182)
-1,1-Dichloroethane (3.891)
-cis-1,2-Dichloroethene (7.095)
-Dibromofluoromethane (7.903)+
-Pentafluorobenzene (8.718)
-1,2-Dichloroethane-D4
-Trichloroethene (9.511)
-1,4-Difluorobenzene (9.583)
-Toluene-D8 (11.692)
-Tetrachloroethene (12.336)
-Chlorobenzene-D5 (13.930)
-P-Bromofluorobenzene (15.532)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.926)

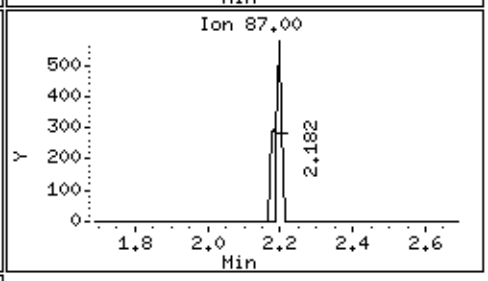
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1625.D
Date : 25-JUN-2015 17:50
Client ID: RE104D1-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-3

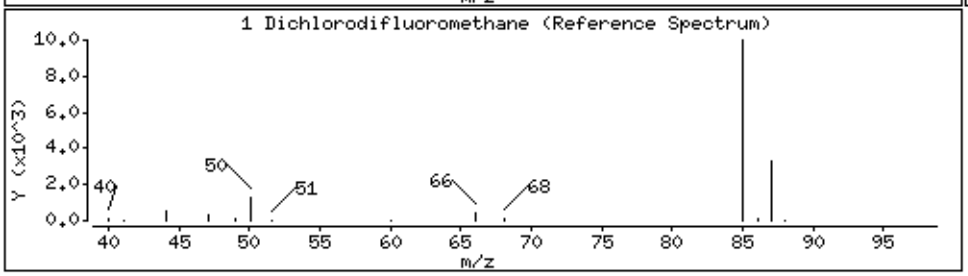
1 Dichlorodifluoromethane Concentration: 0.38 ug/l



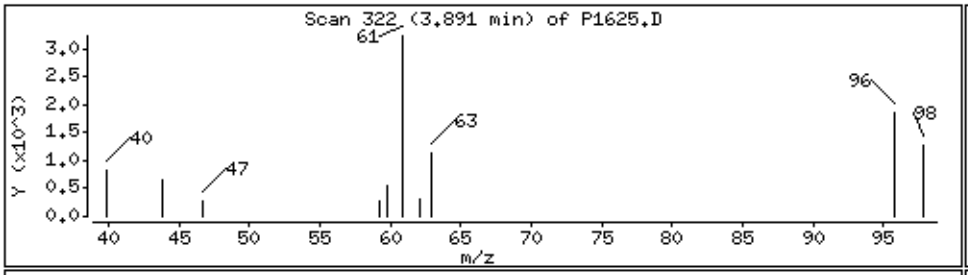


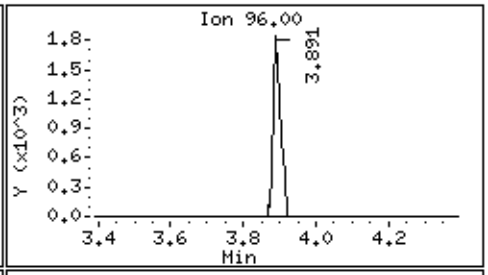


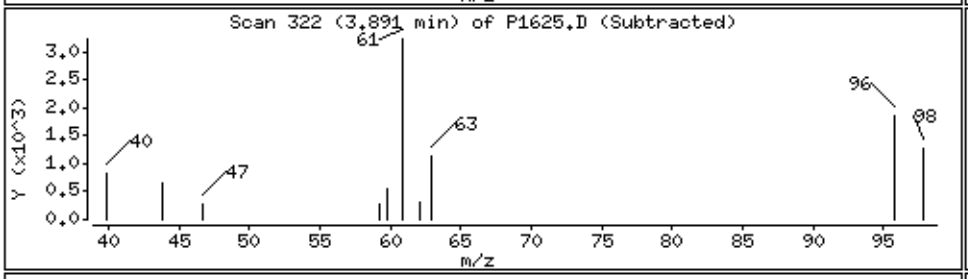


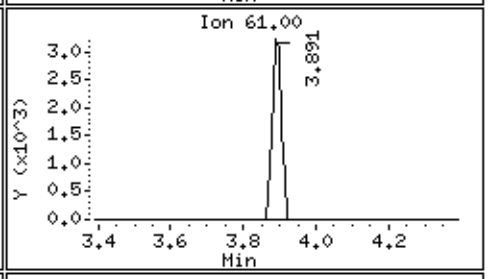


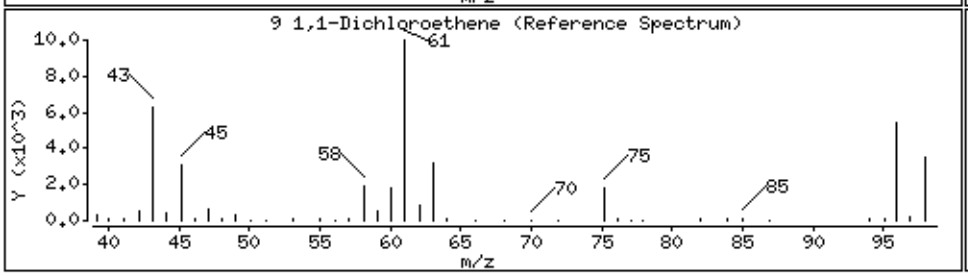
9 1,1-Dichloroethene Concentration: 0.66 ug/l

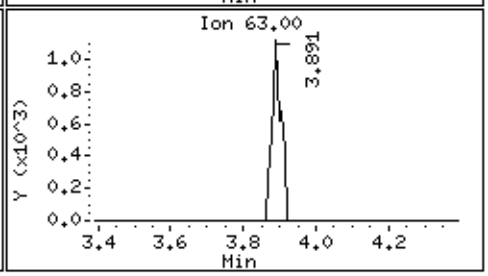












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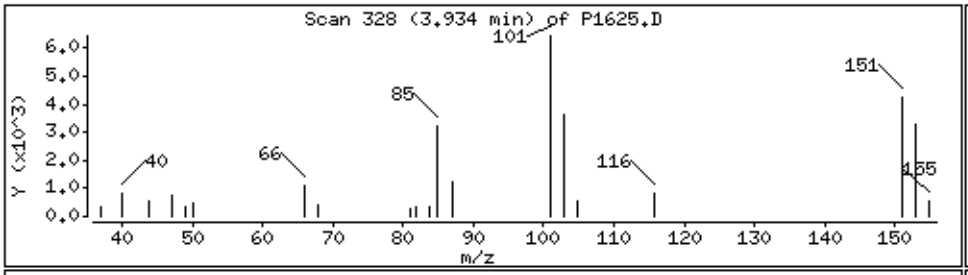
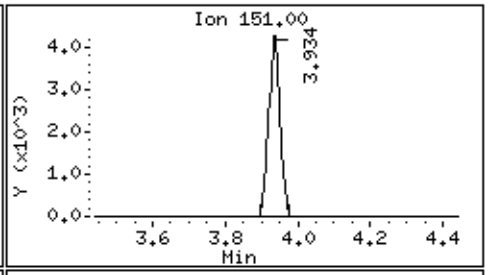
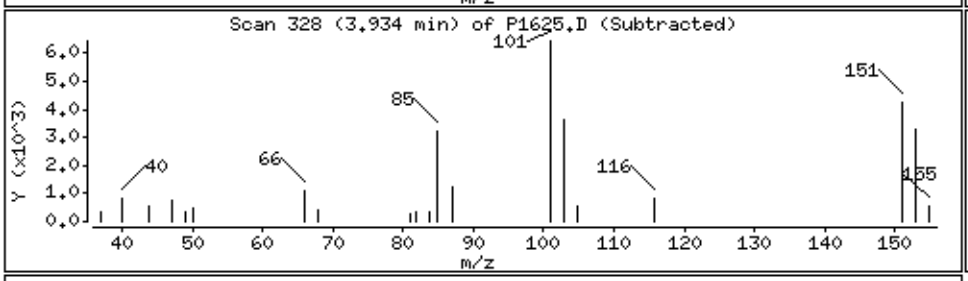
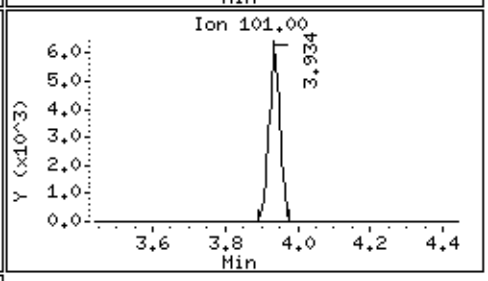
Date : 25-JUN-2015 17:50
Client ID: RE104D1-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-3

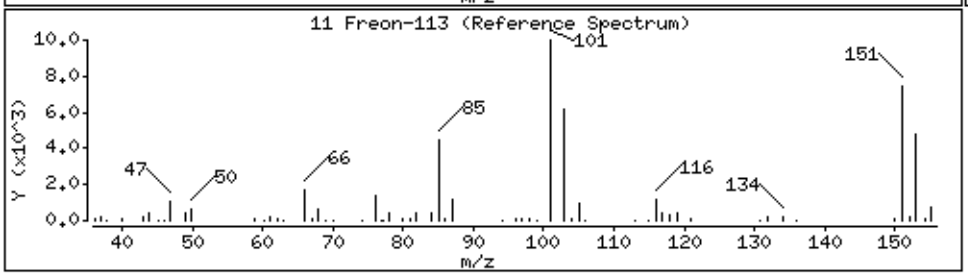
11 Freon-113 Concentration: 3.7 ug/l



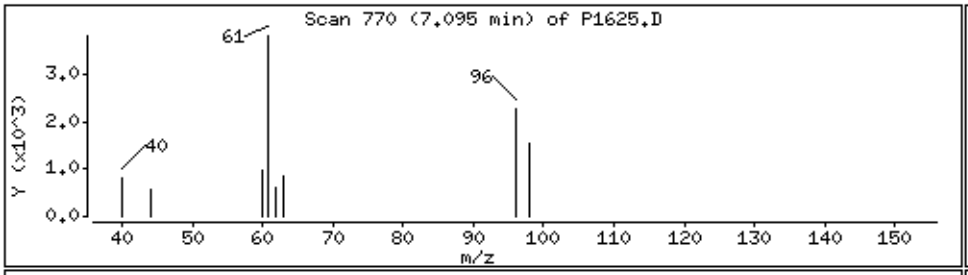


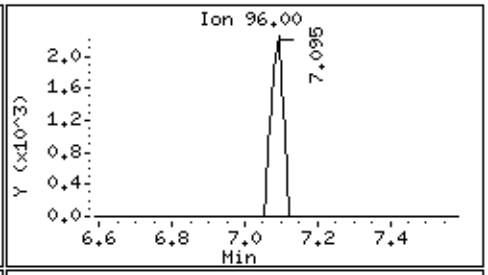


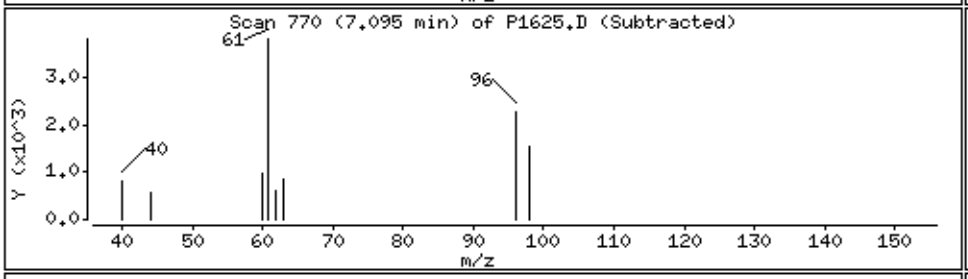


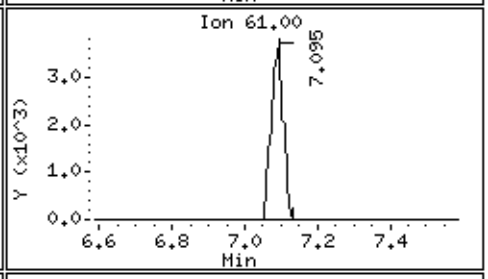


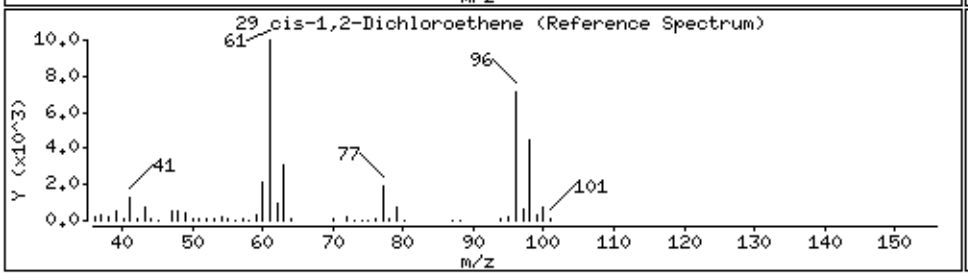
29 cis-1,2-Dichloroethene Concentration: 1.0 ug/l

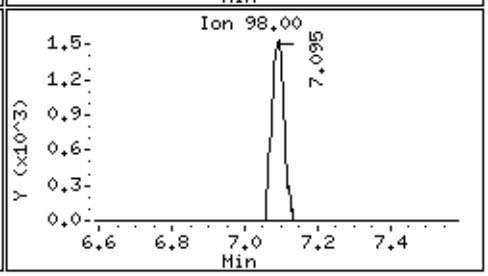












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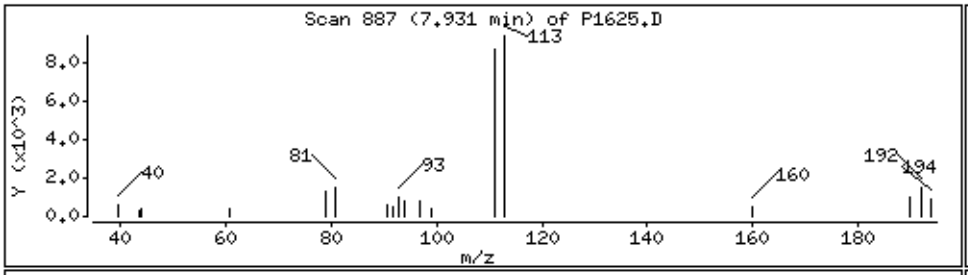
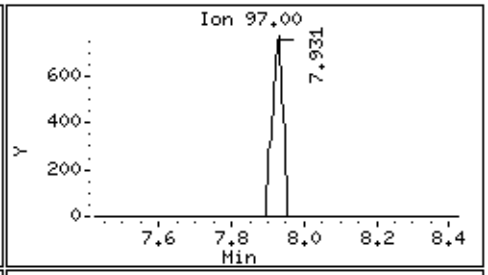
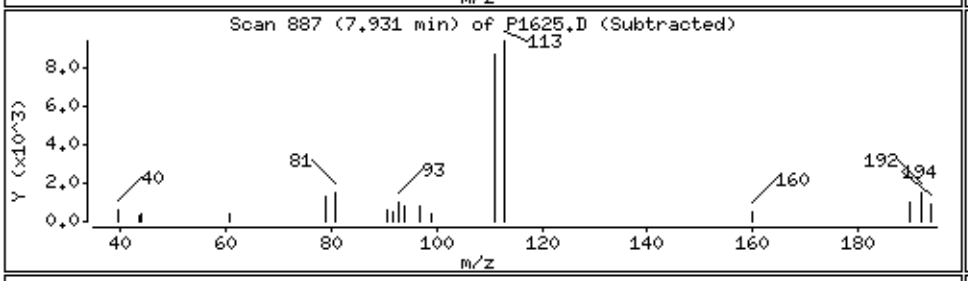
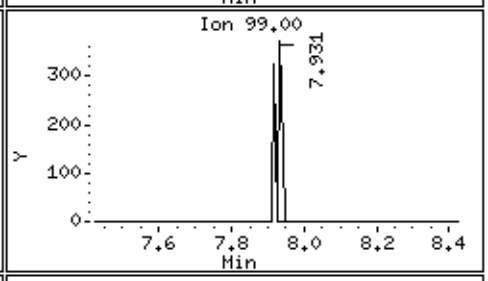
Date : 25-JUN-2015 17:50
Client ID: RE104D1-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-3

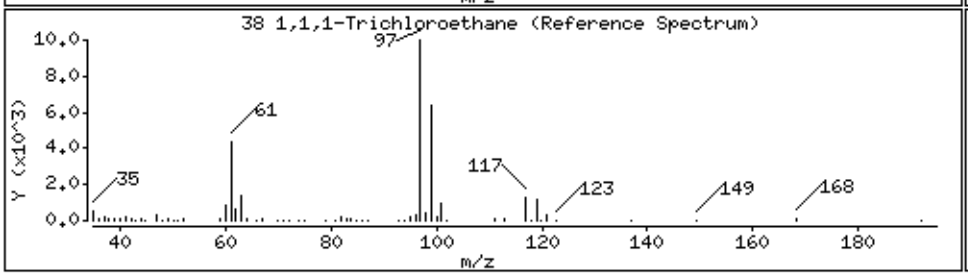
38 1,1,1-Trichloroethane Concentration: 0.22 ug/l

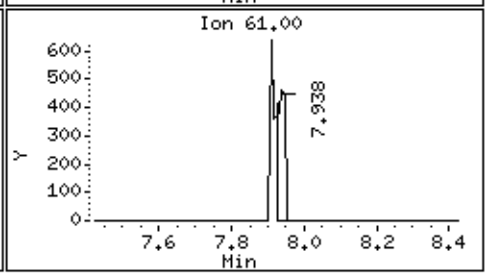




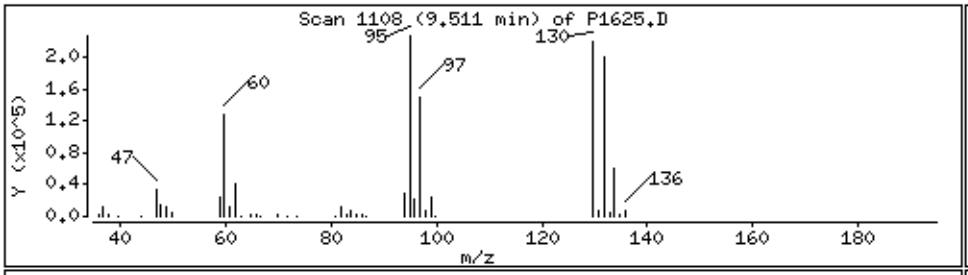


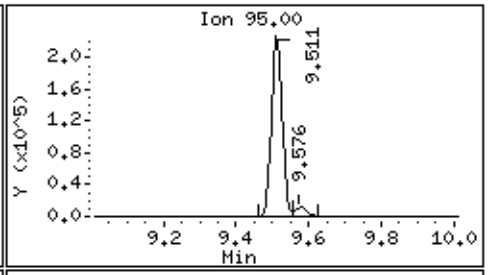


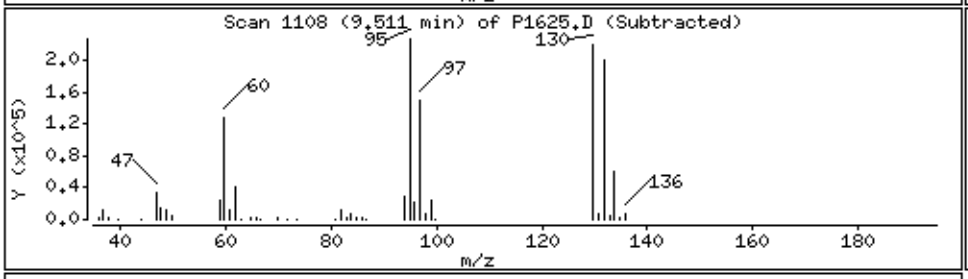


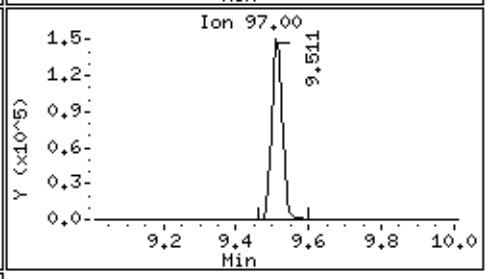


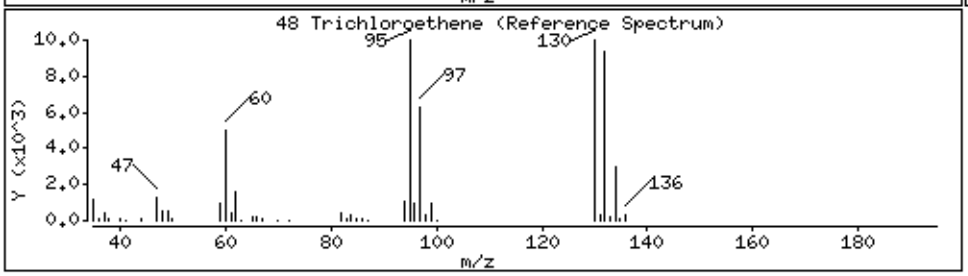
48 Trichloroethene Concentration: 102 ug/l











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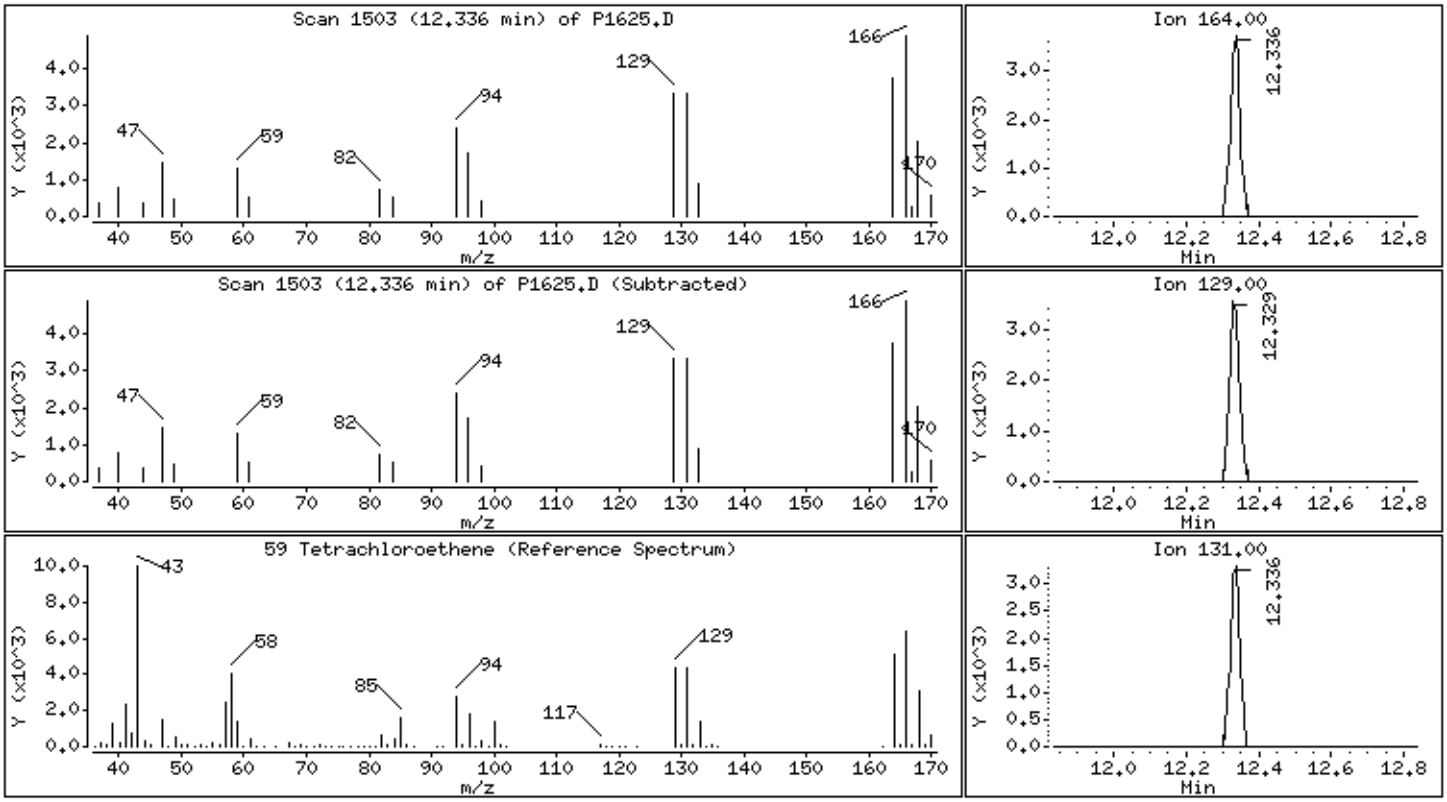
Date : 25-JUN-2015 17:50

Client ID: RE104D1-GW-062315 Instrument: gcms-p.i

Sample Info: SI4462-3

59 Tetrachloroethene Concentration: 2.1 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-4
Client ID: RE103D1-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1626.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	J	0.26	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	UM	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene		4.2	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	M	11	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	J	3.3	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	J	0.64	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.0	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.49	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	J	0.38	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	E	780	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	UM	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	J	0.51	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		4.0	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-4
Client ID: RE103D1-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1626.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	UM	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	UM	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)		3.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		95.6	%					
Toluene-d8		97.3	%					
1,2-Dichloroethane-d4		96.2	%					
Dibromofluoromethane		89.7	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Report Date: 26-Jun-2015 06:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Lab Smp Id: SI4462-4 Client Smp ID: RE103D1-GW-062215
Inj Date : 25-JUN-2015 18:19 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-4
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

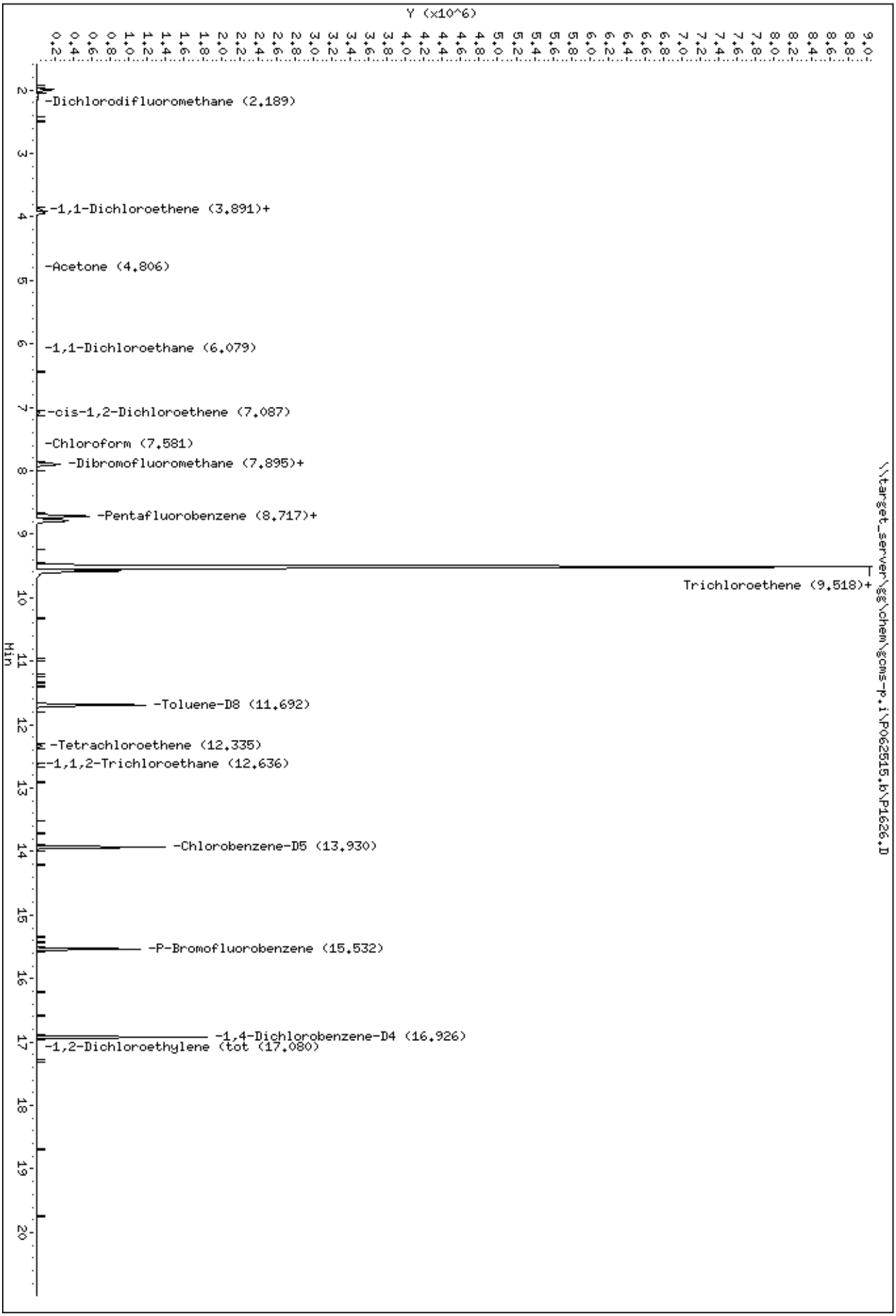
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	1 Dichlorodifluoromethane	85	2.189	2.187	(0.251)	1346	0.26350	0.26(a)	
	9 1,1-Dichloroethene	96	3.891	3.889	(0.446)	16209	4.21948	4.2	
	11 Freon-113	151	3.934	3.939	(0.451)	27371	11.1738	11.2	
	15 Acetone	43	4.806	4.804	(0.551)	5615	3.28284	3.3(a)	
	25 1,1-Dichloroethane	63	6.079	6.084	(0.697)	5087	0.63989	0.64(a)	
	29 cis-1,2-Dichloroethene	96	7.087	7.085	(0.813)	14781	2.95185	3.0	
M	30 1,2-Dichloroethylene (total)	96				14781	2.95185	3.0	
	34 Chloroform	83	7.580	7.578	(0.870)	4017	0.49451	0.49(a)	
$	37 Dibromofluoromethane	113	7.895	7.900	(0.906)	181572	44.8740	44.9	
	38 1,1,1-Trichloroethane	97	7.923	7.922	(0.909)	2595	0.38511	0.38(aM)	M9
*	42 Pentafluorobenzene	168	8.717	8.715	(1.000)	374079	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.788	8.787	(1.008)	273292	48.0944	48.1	
	48 Trichloroethene	95	9.511	9.509	(0.993)	3477715	778.359	778(A)	
*	49 1,4-Difluorobenzene	114	9.575	9.573	(1.000)	697259	50.0000		
$	55 Toluene-D8	98	11.691	11.690	(1.221)	750151	48.6336	48.6	
	59 Tetrachloroethene	164	12.328	12.333	(0.885)	12906	4.00509	4.0	
	61 1,1,2-Trichloroethane	83	12.635	12.634	(1.320)	1769	0.50847	0.51(a)	
*	66 Chlorobenzene-D5	117	13.929	13.935	(1.000)	648967	50.0000		
$	76 P-Bromofluorobenzene	95	15.531	15.537	(1.622)	335227	47.7782	47.8	
*	91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	353992	50.0000		

REC
3:15 pm, Jul 06, 2015

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Report Date: 26-Jun-2015 06:52

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.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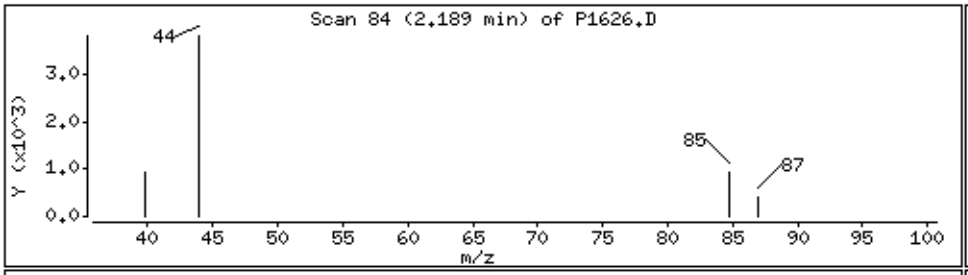
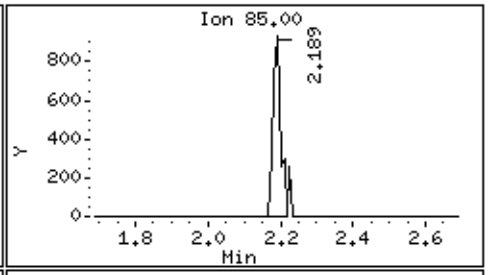
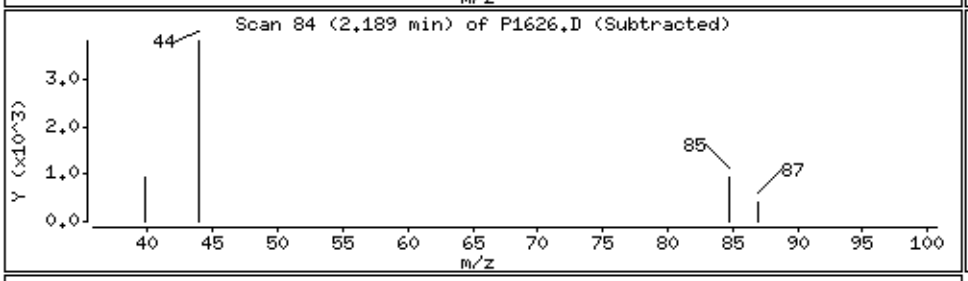
Date : 25-JUN-2015 18:19
Client ID: RE103D1-GW-062215
Sample Info: SI4462-4
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Y (x10^6)
Min
-Dichlorodifluoromethane (2.189)
-1,1-Dichloroethene (3.891)+
-Acetone (4.806)
-1,1-Dichloroethane (6.079)
-cis-1,2-Dichloroethene (7.087)
-Chloroform (7.581)
-Dibromofluoromethane (7.895)+
-Pentafluorobenzene (8.717)+
Trichloroethene (9.518)+
-Toluene-D8 (11.692)
-Tetrachloroethene (12.335)
-1,1,2-Trichloroethane (12.636)
-Chlorobenzene-D5 (13.930)
-P-Bromofluorobenzene (15.532)
-1,4-Dichlorobenzene-D4 (16.926)
-1,2-Dichloroethylene (tot (17.080)

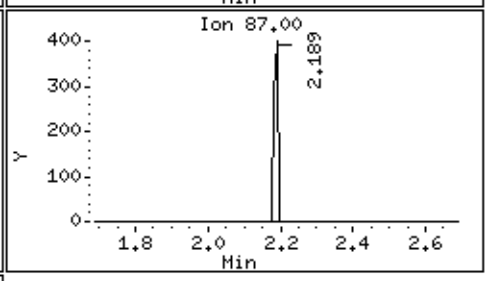
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Date : 25-JUN-2015 18:19
Client ID: RE103D1-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-4

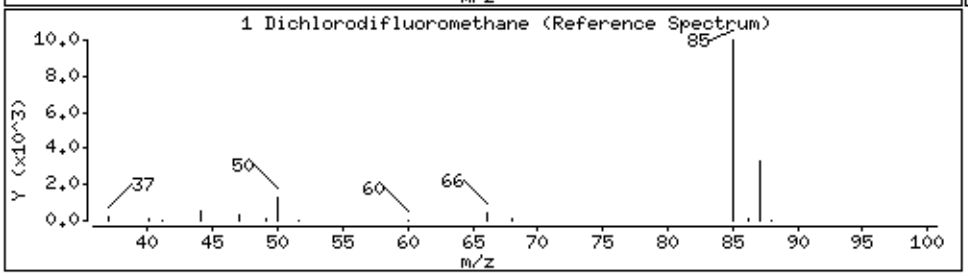
1 Dichlorodifluoromethane Concentration: 0.26 ug/l



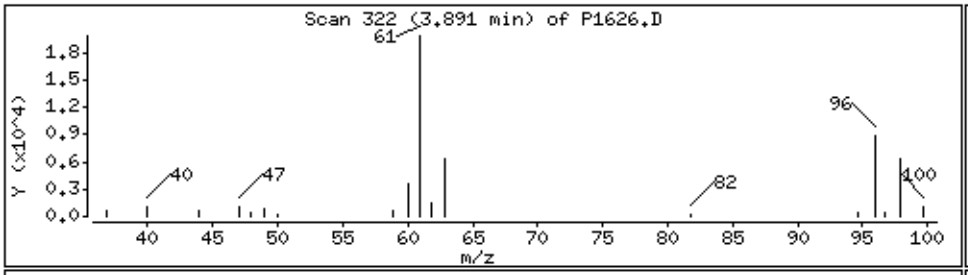


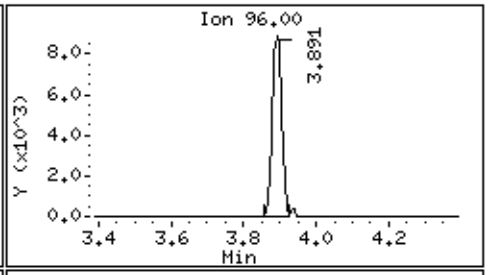


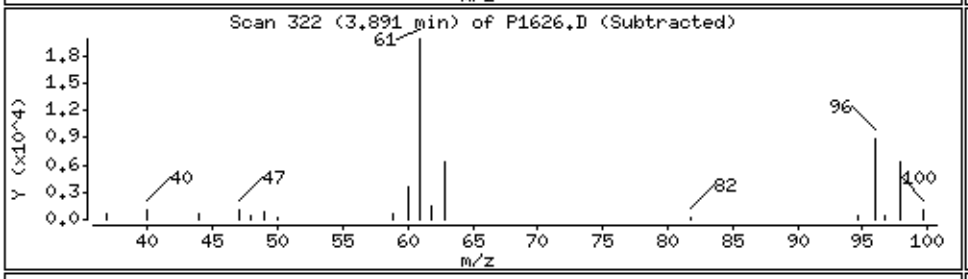


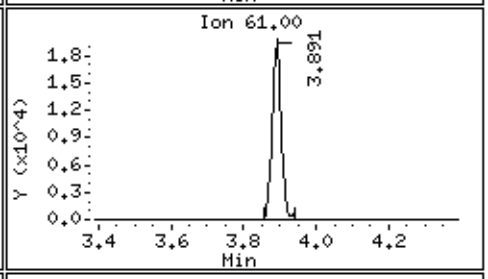


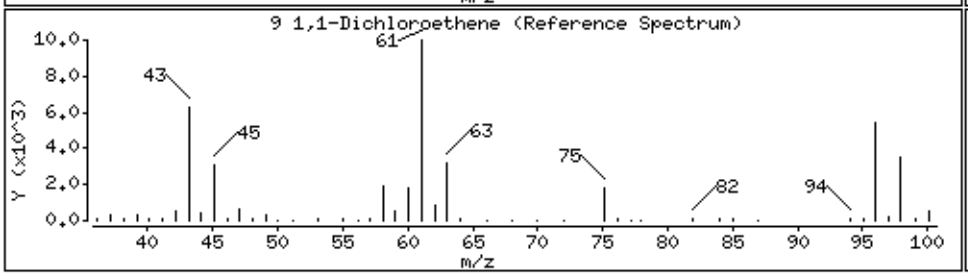
9 1,1-Dichloroethene Concentration: 4.2 ug/l

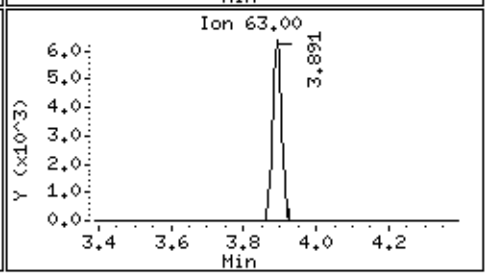






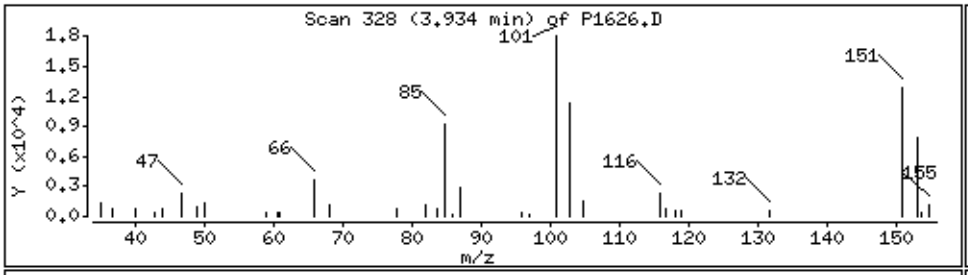


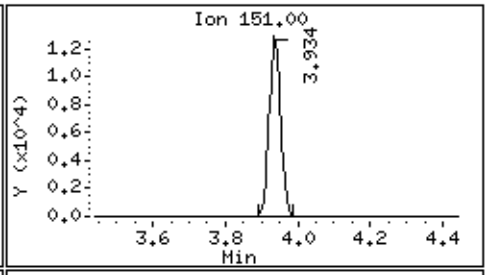


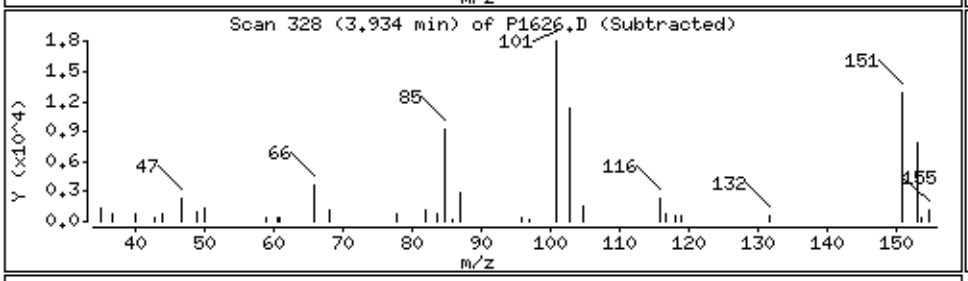


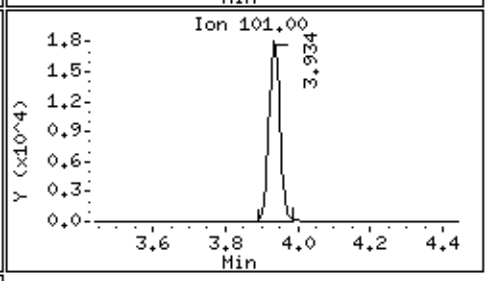
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Date : 25-JUN-2015 18:19
Client ID: RE103D1-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-4

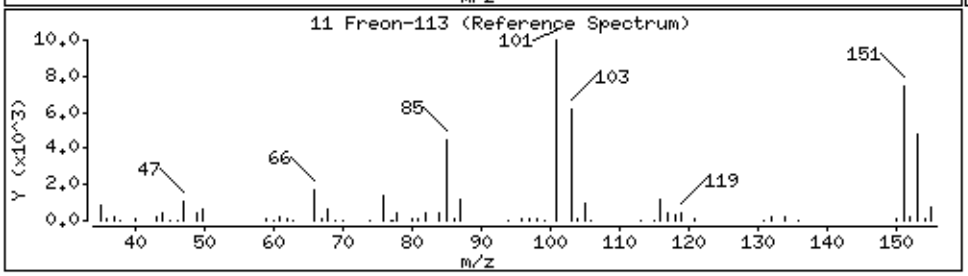
11 Freon-113 Concentration: 11.2 ug/l



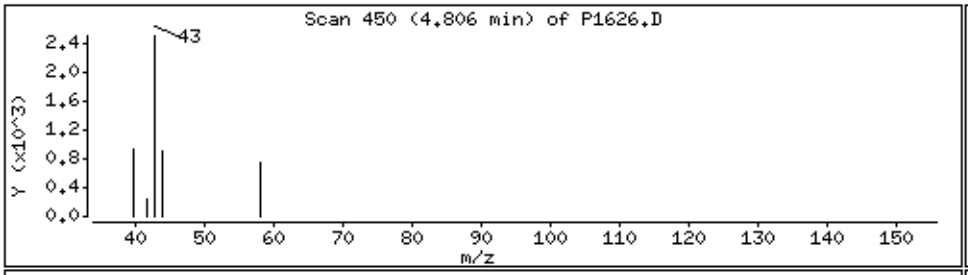


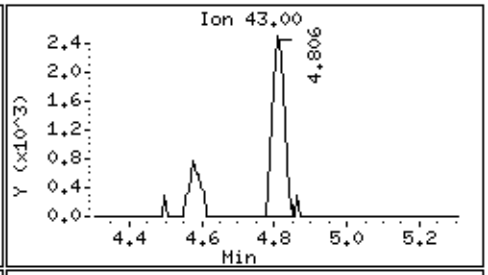


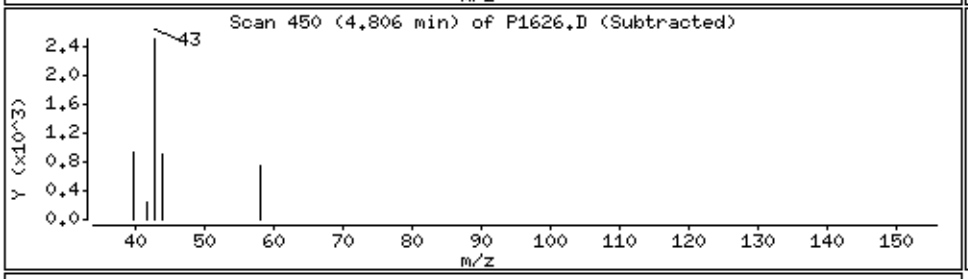


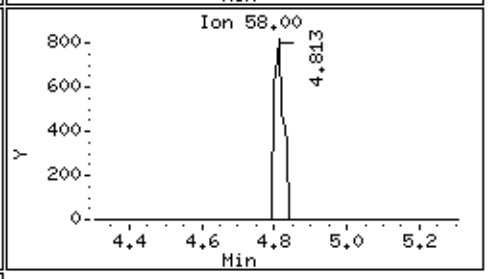


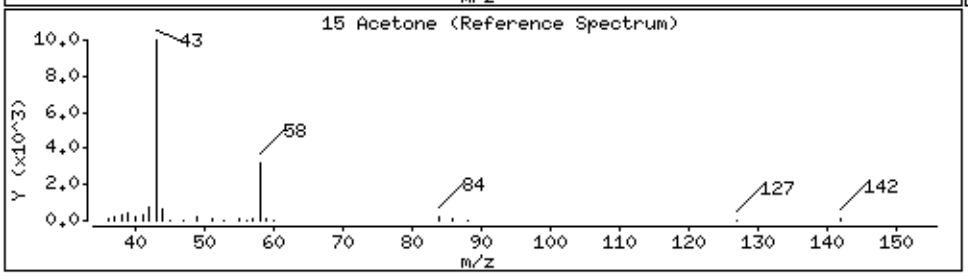
15 Acetone Concentration: 3.3 ug/l











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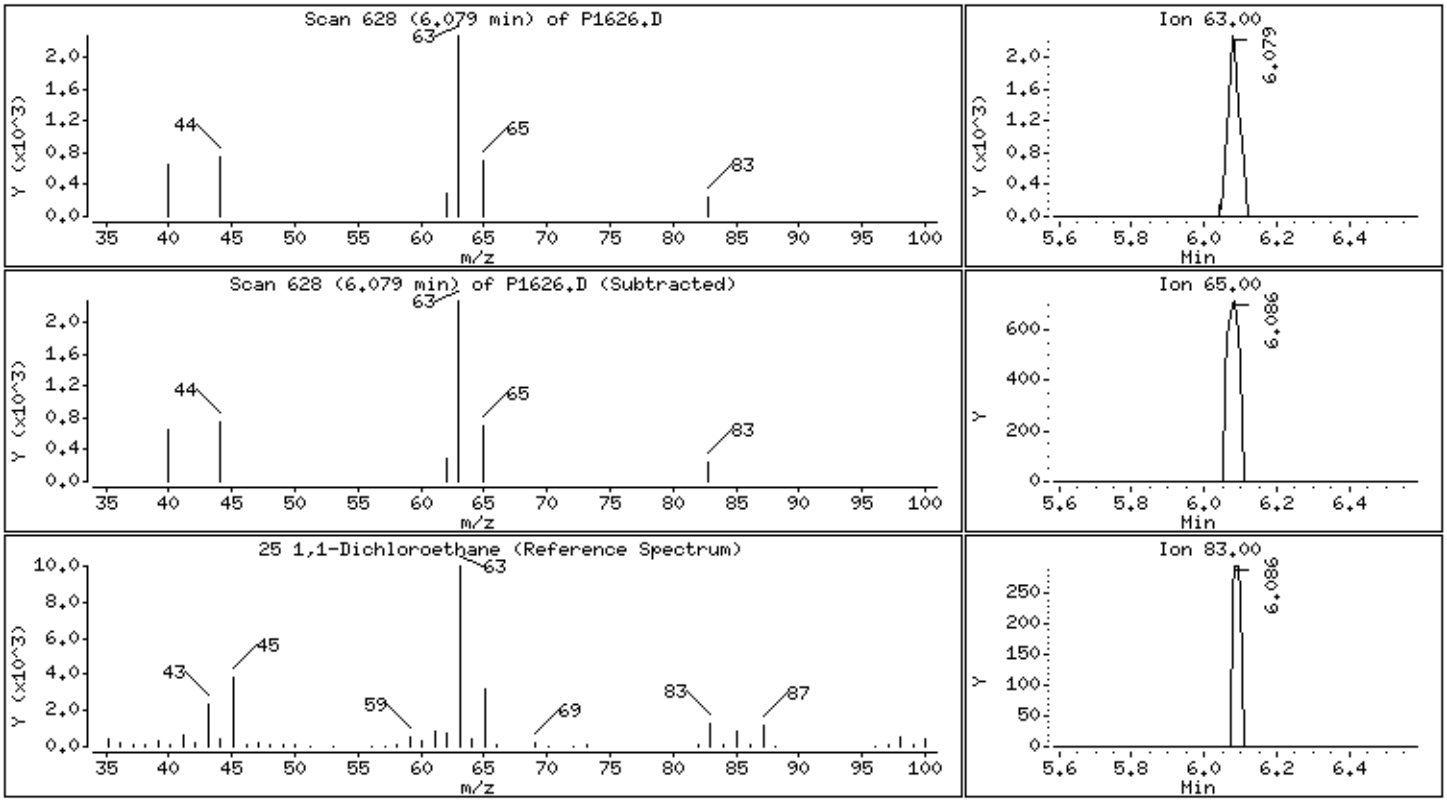
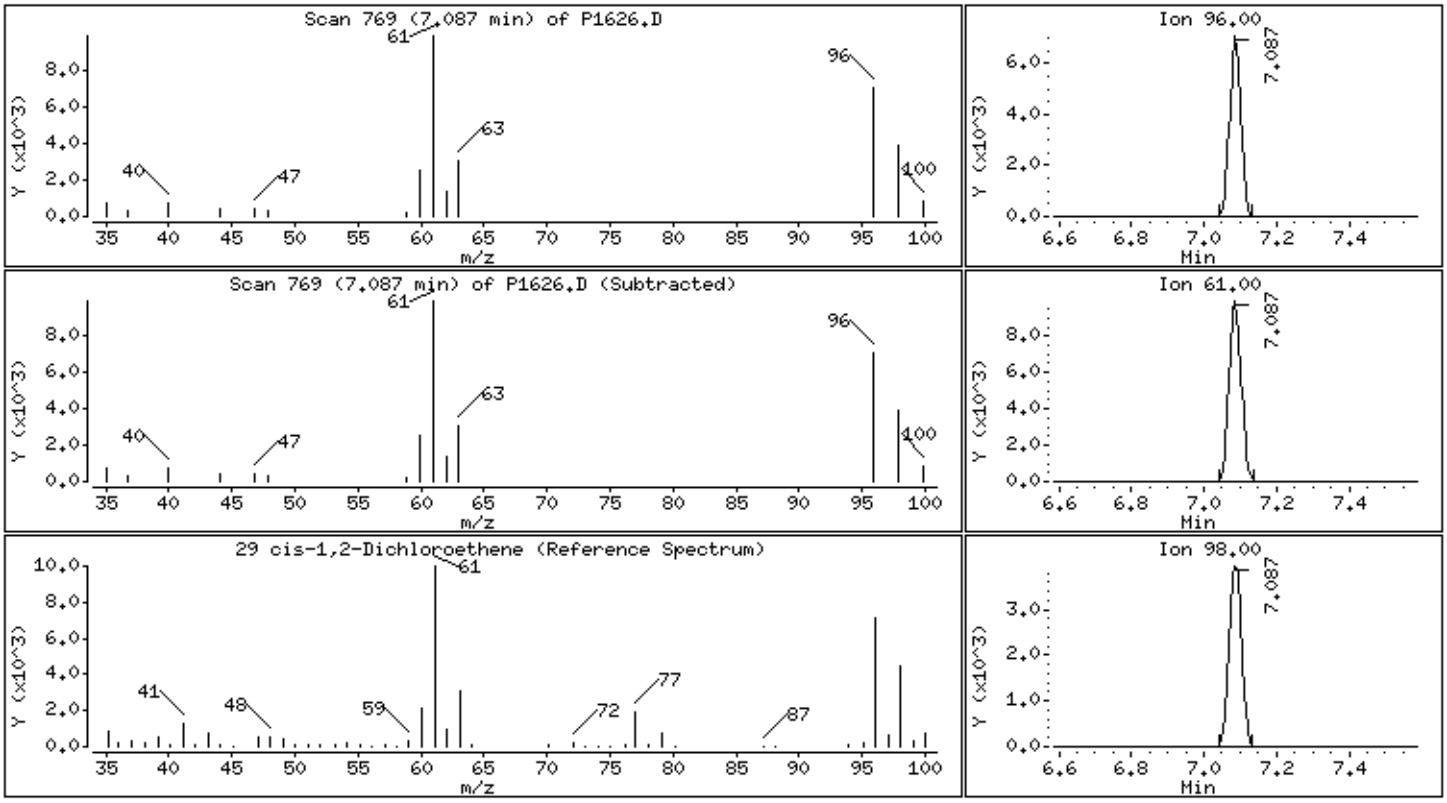
Date : 25-JUN-2015 18:19
Client ID: RE103D1-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-4

25 1,1-Dichloroethane Concentration: 0.64 ug/l

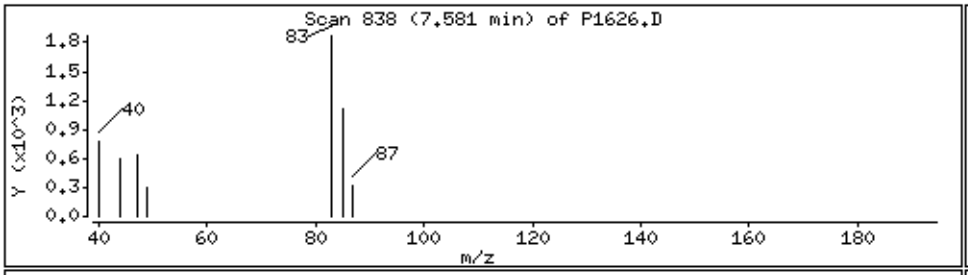


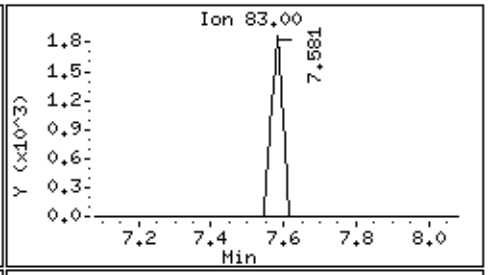
29 cis-1,2-Dichloroethene Concentration: 3.0 ug/l

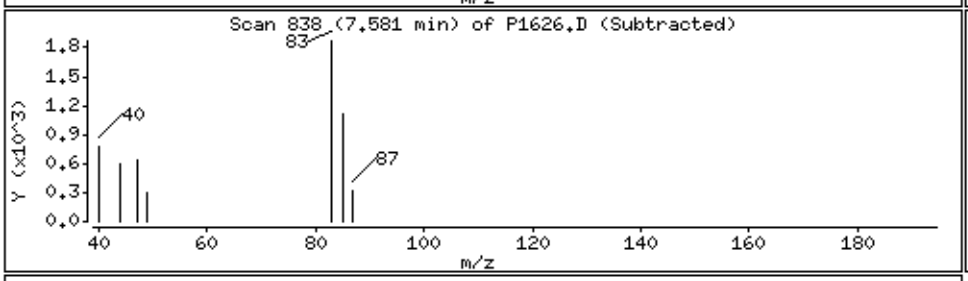


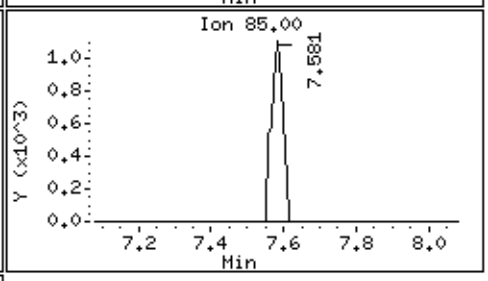
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Date : 25-JUN-2015 18:19
Client ID: RE103D1-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-4

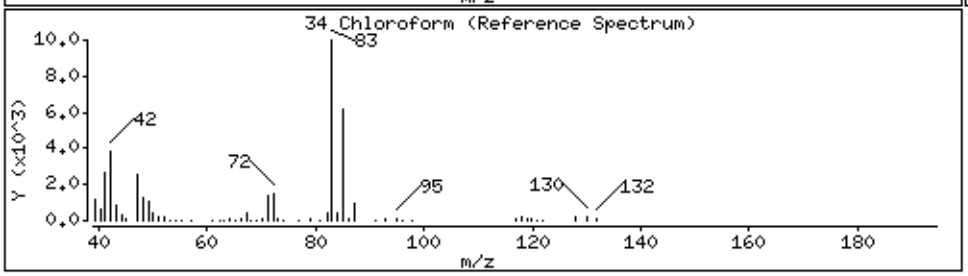
34 Chloroform Concentration: 0.49 ug/l



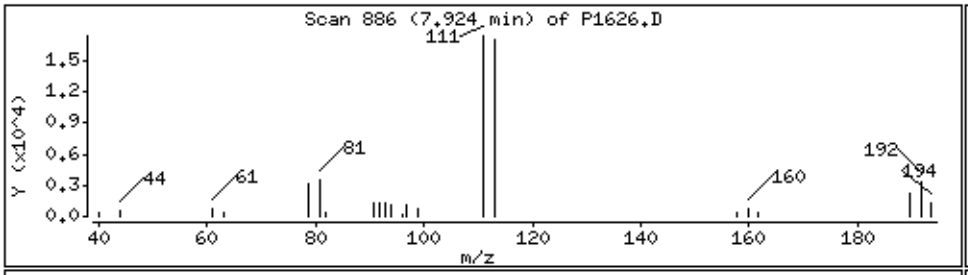


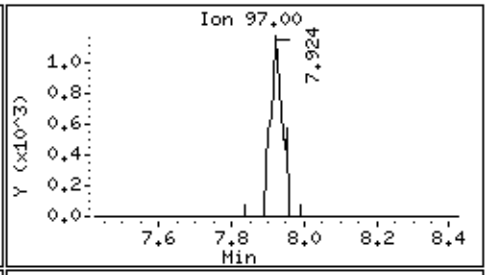


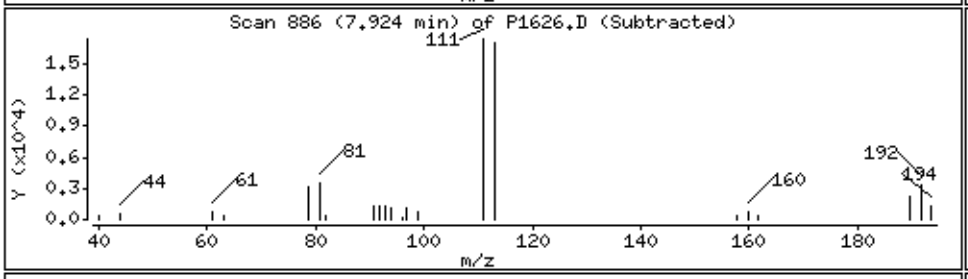


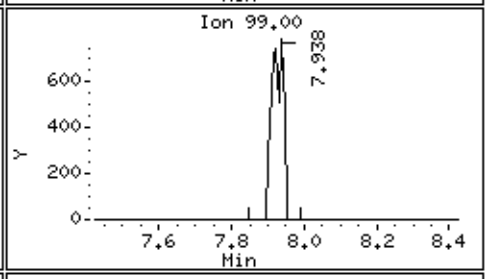


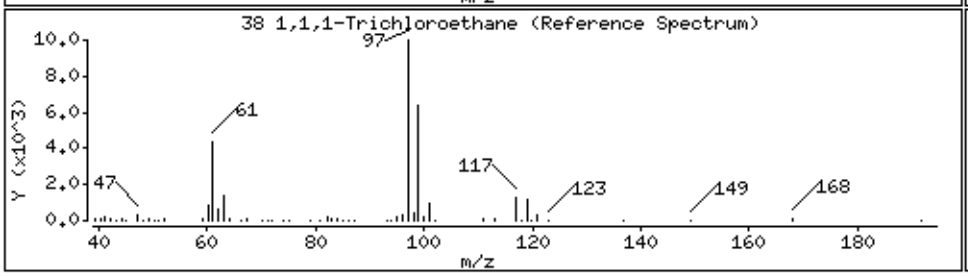
38 1,1,1-Trichloroethane Concentration: 0.38 ug/l

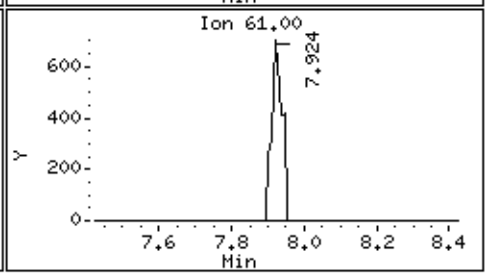






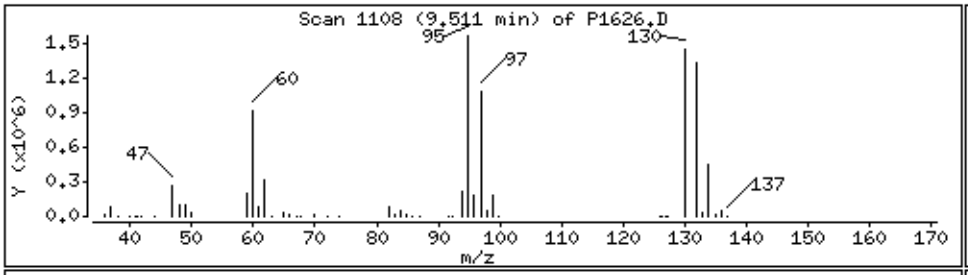


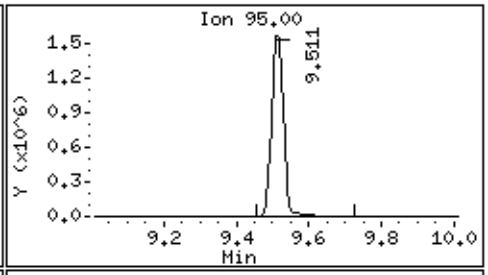


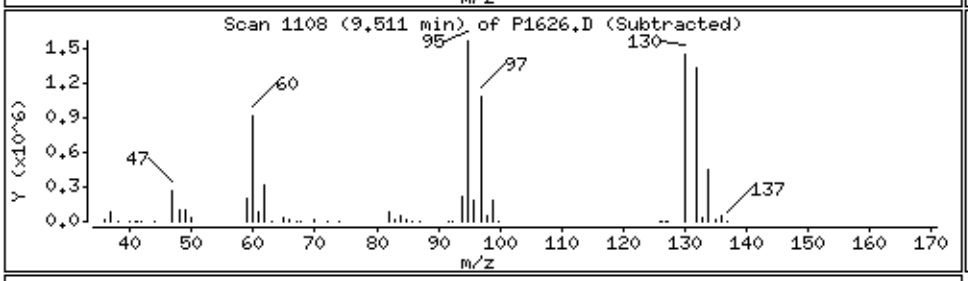


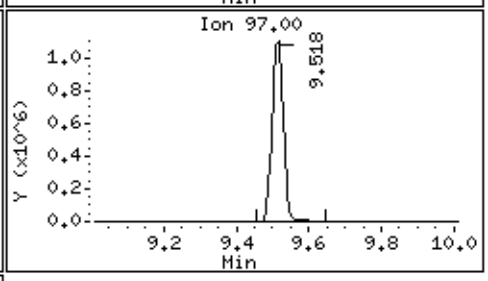
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1626.D
Date : 25-JUN-2015 18:19
Client ID: RE103D1-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-4

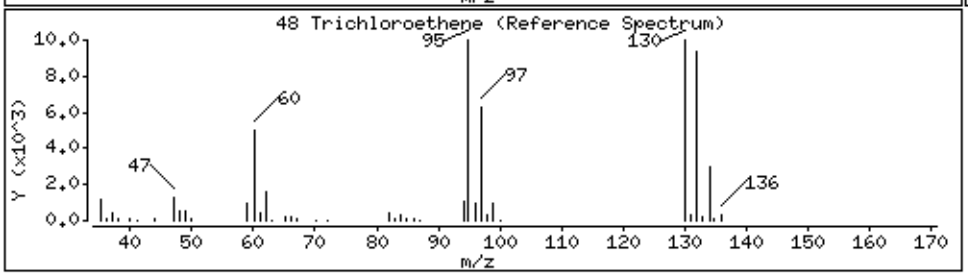
48 Trichloroethene Concentration: 778 ug/l



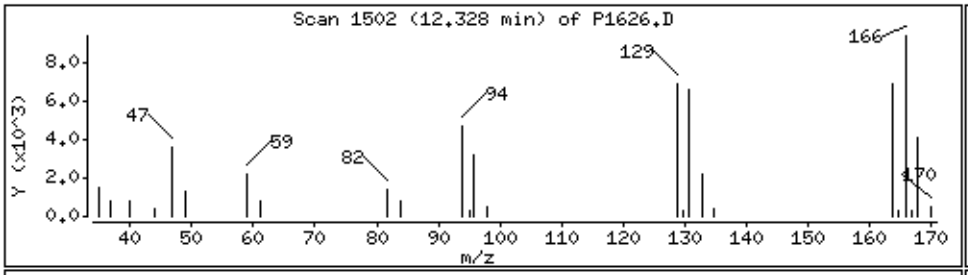


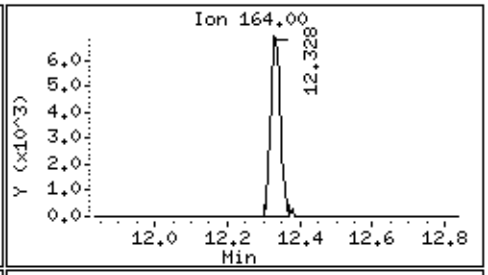


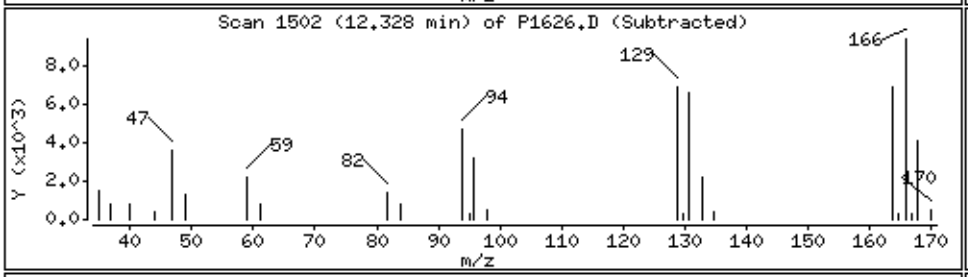


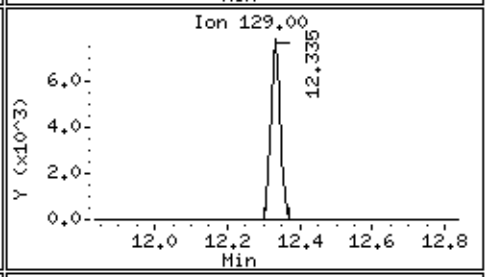


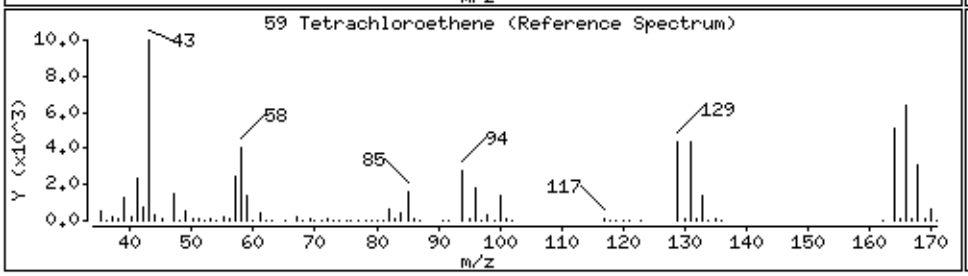
59 Tetrachloroethene Concentration: 4.0 ug/l

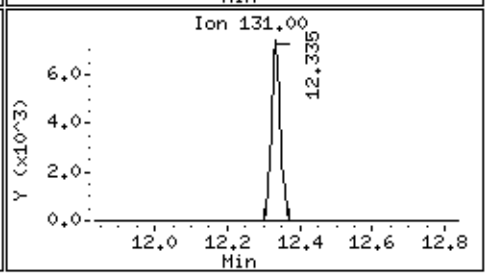












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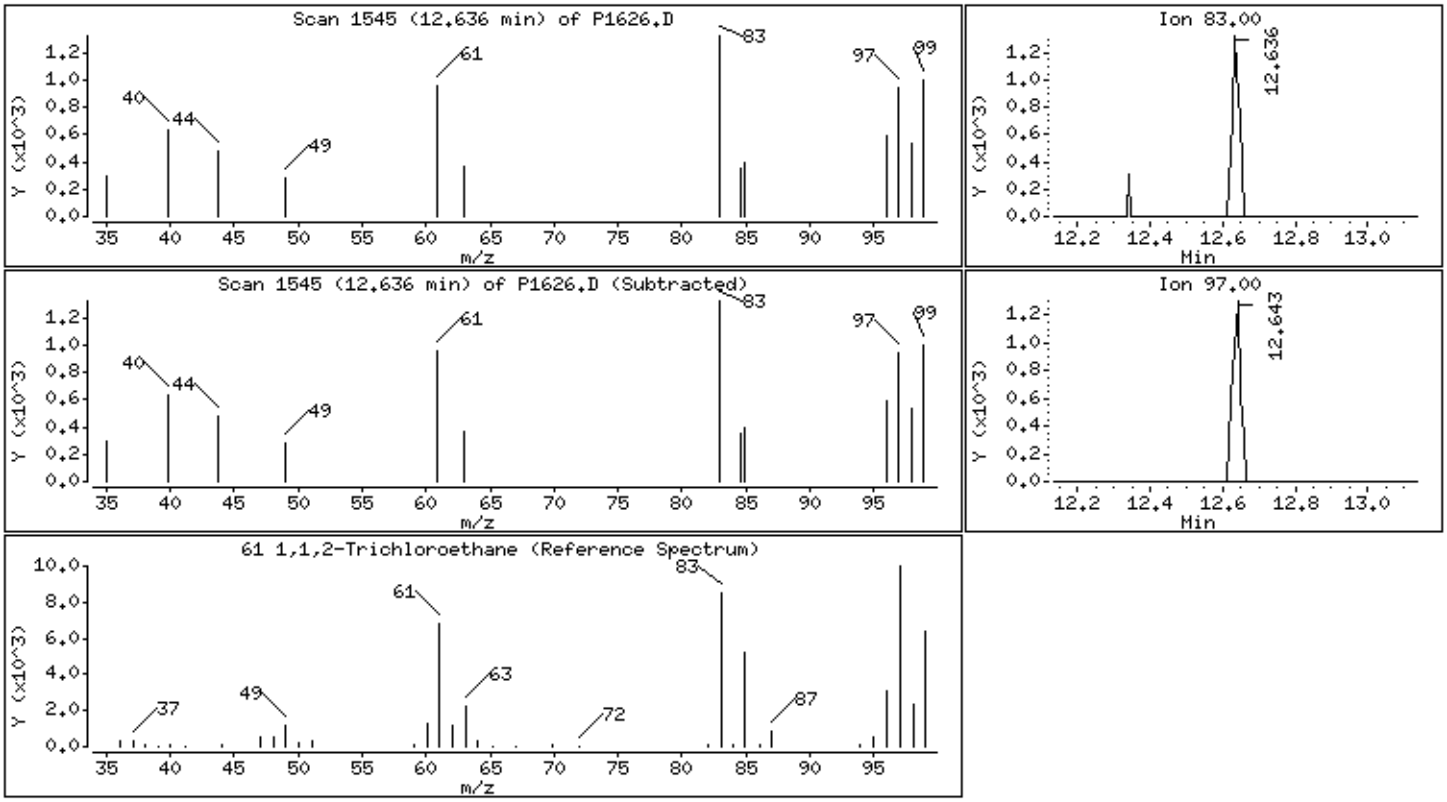
Date : 25-JUN-2015 18:19

Client ID: RE103D1-GW-062215 Instrument: gcms-p.i

Sample Info: SI4462-4

61 1,1,2-Trichloroethane Concentration: 0.51 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-4DL
Client ID: RE103D1-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1652.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	10	2	20.	2.4	10.
Chloromethane	U	10	ug/L	10	2	20.	3.6	10.
Vinyl Chloride	U	10	ug/L	10	2	20.	2.5	10.
Bromomethane	U	10	ug/L	10	2	20.	4.9	10.
Chloroethane	UM	10	ug/L	10	2	20.	5.5	10.
Trichlorofluoromethane	U	10	ug/L	10	2	20.	2.4	10.
1,1-Dichloroethene	J	4.6	ug/L	10	1	10.	3.5	5.0
Carbon Disulfide	U	5.0	ug/L	10	1	10.	2.5	5.0
Freon-113	JM	8.4	ug/L	10	1	10.	3.1	5.0
Methylene Chloride	U	25	ug/L	10	5	50.	11.	25.
Acetone	U	25	ug/L	10	5	50.	22.	25.
trans-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.5	5.0
Methyl tert-butyl Ether	U	5.0	ug/L	10	1	10.	3.6	5.0
1,1-Dichloroethane	U	5.0	ug/L	10	1	10.	2.1	5.0
cis-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.1	5.0
Chloroform	U	5.0	ug/L	10	1	10.	3.2	5.0
1,1,1-Trichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
2-Butanone	U	25	ug/L	10	5	50.	13.	25.
Cyclohexane	U	5.0	ug/L	10	1	10.	3.1	5.0
Carbon Tetrachloride	U	5.0	ug/L	10	1	10.	2.2	5.0
Benzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,2-Dichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
Trichloroethene		810	ug/L	10	1	10.	2.8	5.0
1,2-Dichloropropane	U	5.0	ug/L	10	1	10.	2.5	5.0
Bromodichloromethane	UM	5.0	ug/L	10	1	10.	3.3	5.0
cis-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	1.9	5.0
Toluene	U	5.0	ug/L	10	1	10.	2.7	5.0
4-Methyl-2-Pentanone	U	25	ug/L	10	5	50.	13.	25.
trans-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	2.0	5.0
1,1,2-Trichloroethane	U	5.0	ug/L	10	1	10.	3.3	5.0
Tetrachloroethene	J	4.2	ug/L	10	1	10.	4.0	5.0
Dibromochloromethane	U	5.0	ug/L	10	1	10.	3.0	5.0
2-Hexanone	U	25	ug/L	10	5	50.	17.	25.
Chlorobenzene	U	5.0	ug/L	10	1	10.	2.2	5.0
Ethylbenzene	U	5.0	ug/L	10	1	10.	2.1	5.0

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P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-4DL
Client ID: RE103D1-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1652.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	UM	15	ug/L	10	3	30.	2.5	15.
Styrene	U	5.0	ug/L	10	1	10.	2.3	5.0
Bromoform	U	5.0	ug/L	10	1	10.	2.3	5.0
Isopropylbenzene	U	5.0	ug/L	10	1	10.	2.3	5.0
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	10	1	10.	3.8	5.0
1,3-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,4-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.4	5.0
1,2-Dichlorobenzene	U	5.0	ug/L	10	1	10.	1.5	5.0
1,2,4-Trichlorobenzene	U	5.0	ug/L	10	1	10.	3.7	5.0
Methyl Acetate	U	7.5	ug/L	10	1	10.	5.3	7.5
Methylcyclohexane	UM	5.0	ug/L	10	1	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	10	1	10.	2.5	5.0
M+P-Xylenes	U	10	ug/L	10	2	20.	5.9	10.
1,2-Dichloroethylene (Total)	U	10	ug/L	10	2	20.	2.1	10.
1,2-Dibromoethane	U	5.0	ug/L	10	1	10.	2.2	5.0
1,2-Dibromo-3-Chloropropane	U	7.5	ug/L	10	1	10.	5.0	7.5
P-Bromofluorobenzene		93.7	%					
Toluene-d8		95.7	%					
1,2-Dichloroethane-d4		97.0	%					
Dibromofluoromethane		90.2	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1652.D
Report Date: 06-Jul-2015 14:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1652.D
Lab Smp Id: SI4462-4DL Client Smp ID: RE103D1-GW-062215
Inj Date : 26-JUN-2015 16:55 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-4DL
Misc Info : WG165523,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 17
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

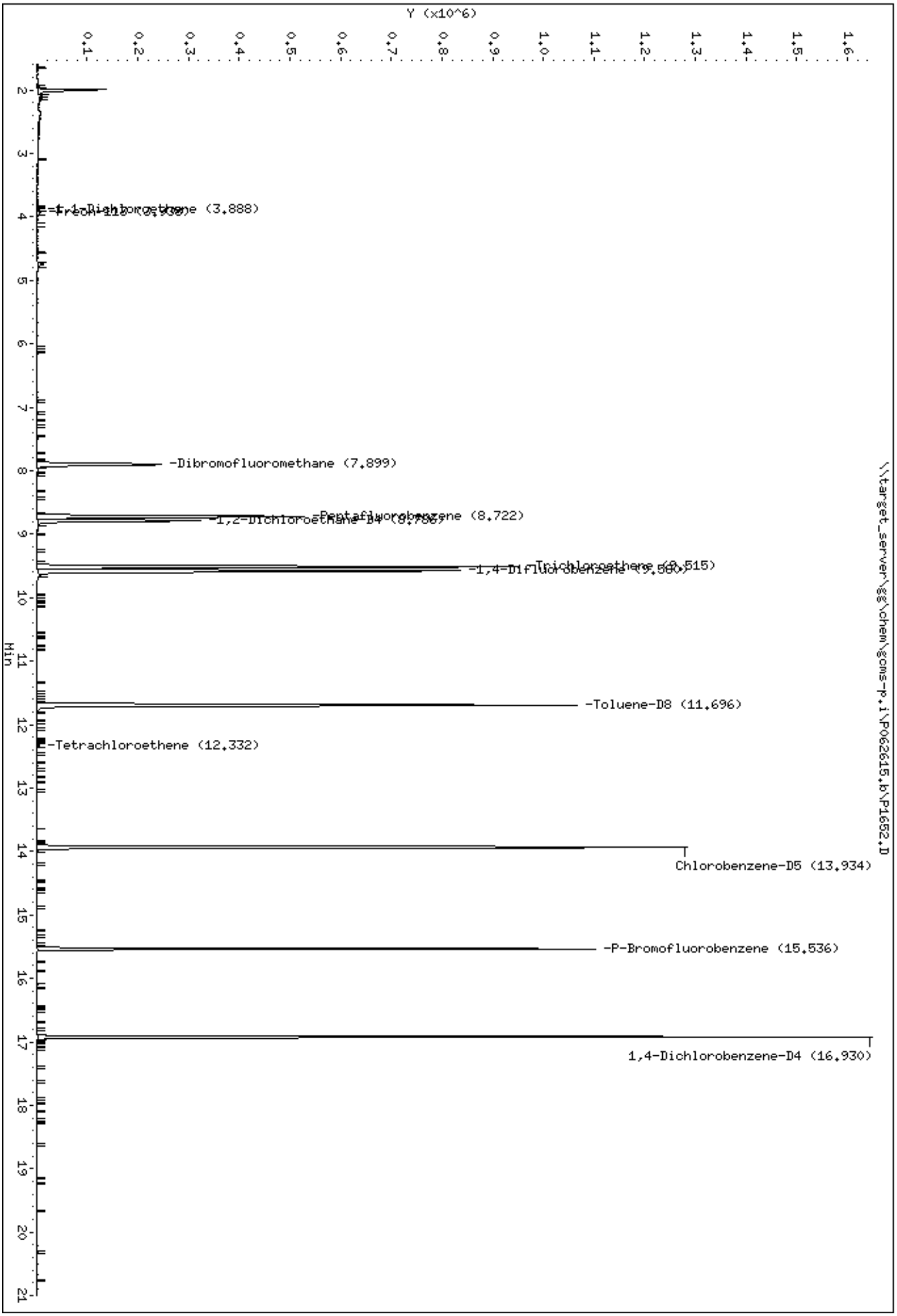
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
9 1,1-Dichloroethene	96	3.888	3.889	(0.446)	1686	0.46225	4.6(a)	
11 Freon-113	151	3.931	3.939	(0.451)	1952	0.83928	8.4(a)	
$ 37 Dibromofluoromethane	113	7.899	7.900	(0.906)	173301	45.1087	45.1	
* 42 Pentafluorobenzene	168	8.721	8.715	(1.000)	355181	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.785	8.787	(1.007)	261623	48.4906	48.5	
48 Trichloroethene	95	9.515	9.509	(0.993)	343948	81.3627	814	
* 49 1,4-Difluorobenzene	114	9.579	9.573	(1.000)	659702	50.0000		
$ 55 Toluene-D8	98	11.696	11.690	(1.221)	698371	47.8542	47.8	
59 Tetrachloroethene	164	12.332	12.333	(0.885)	1283	0.42199	4.2(a)	
* 66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	612310	50.0000		
$ 76 P-Bromofluorobenzene	95	15.535	15.537	(1.622)	311116	46.8662	46.9	
* 91 1,4-Dichlorobenzene-D4	152	16.929	16.924	(1.000)	342719	50.0000		

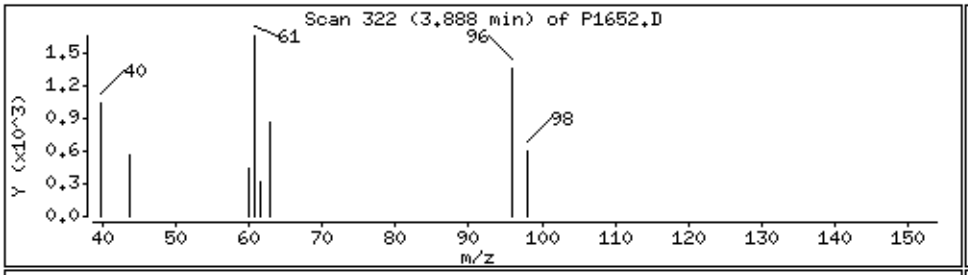
QC Flag Legend

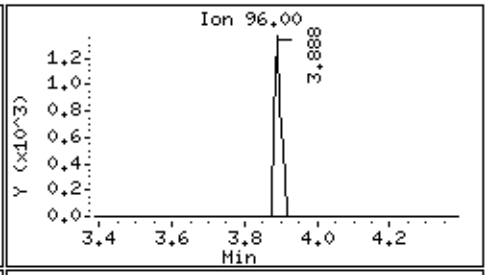
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

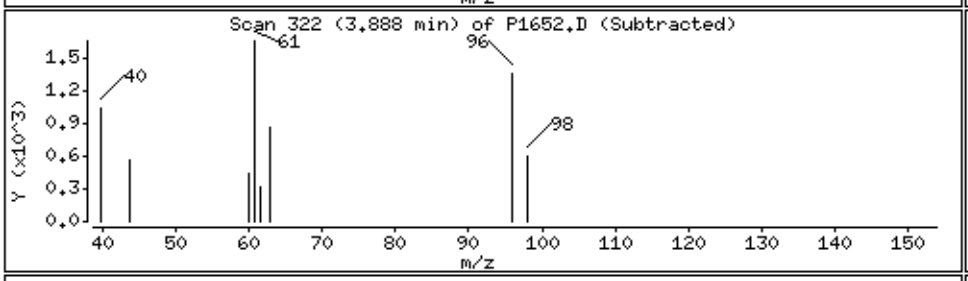

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1652.D
Date : 26-JUN-2015 16:55
Client ID: RE103D1-GW-062215
Sample Info: SI4462-4DL
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062615.b\P1652.D
Y (x10^6)
Min
-Dibromofluoromethane (7.899)
-Pentafluorobenzene (8.722)
-Toluene-D8 (11.696)
-Tetrachloroethene (12.332)
Chlorobenzene-D5 (13.934)
-P-Bromofluorobenzene (15.536)
1,4-Dichlorobenzene-D4 (16.930)

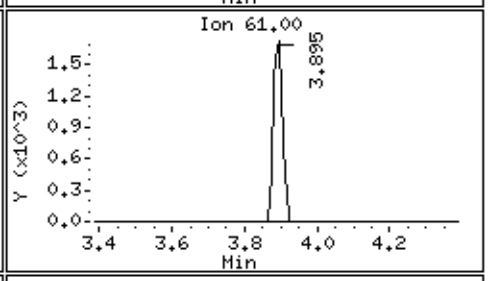
Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1652.D
Date : 26-JUN-2015 16:55
Client ID: RE103D1-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-4DL

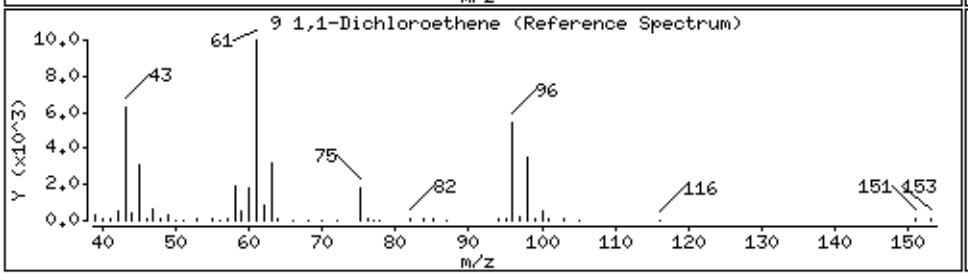
9 1,1-Dichloroethene Concentration: 4.6 ug/l

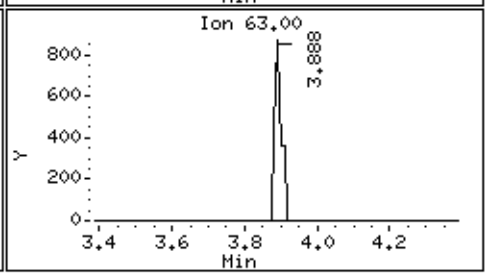




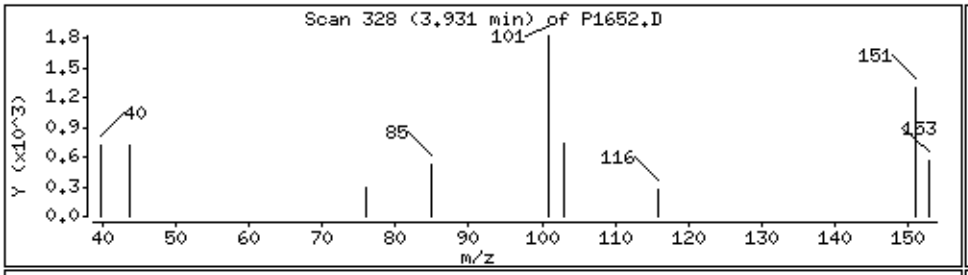


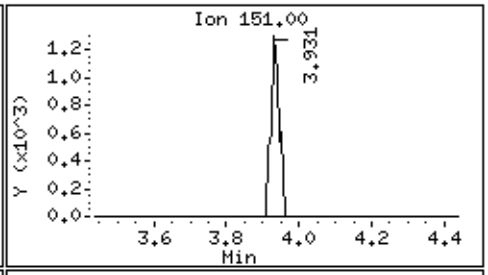


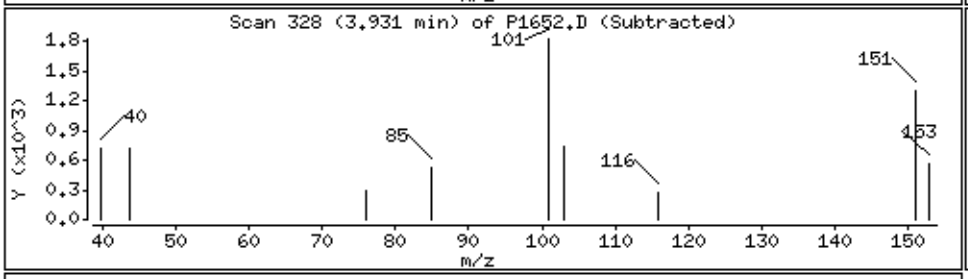


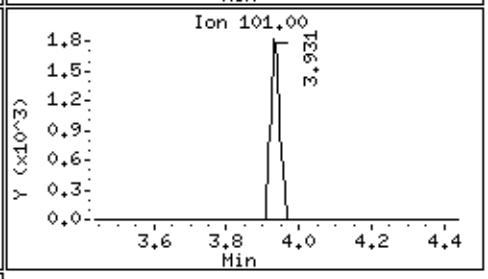


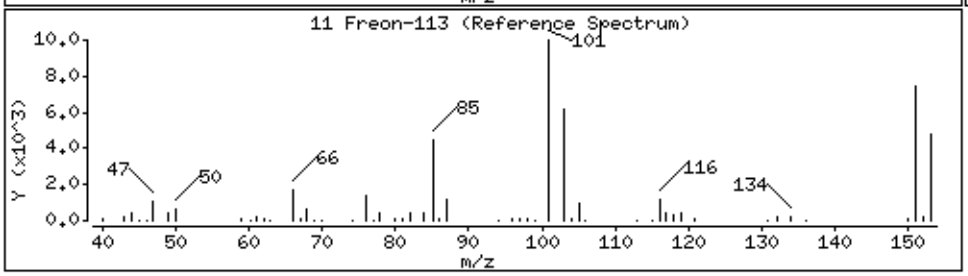
11 Freon-113 Concentration: 8.4 ug/l











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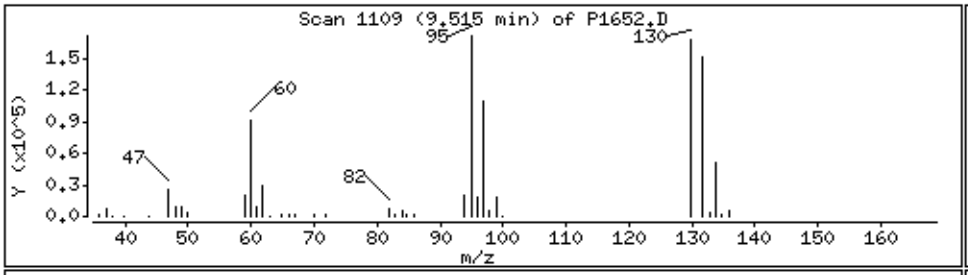
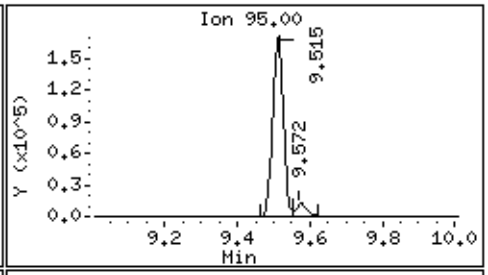
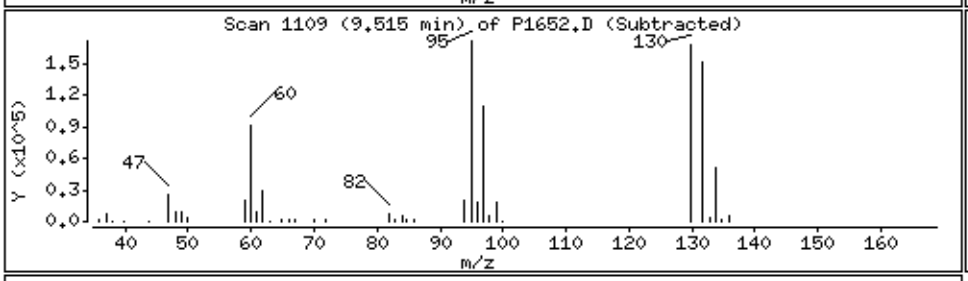
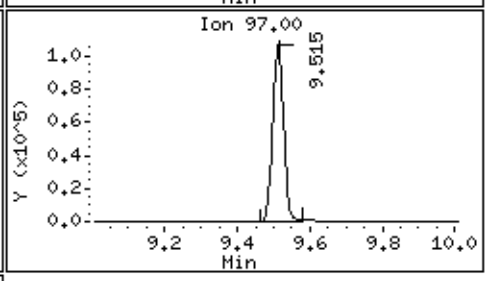
Date : 26-JUN-2015 16:55
Client ID: RE103D1-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-4DL

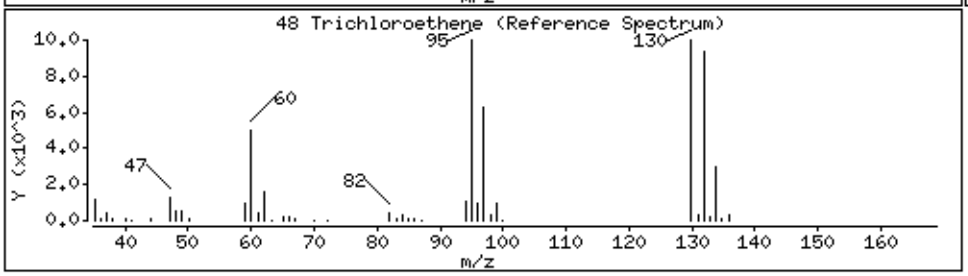
48 Trichloroethene Concentration: 814 ug/l



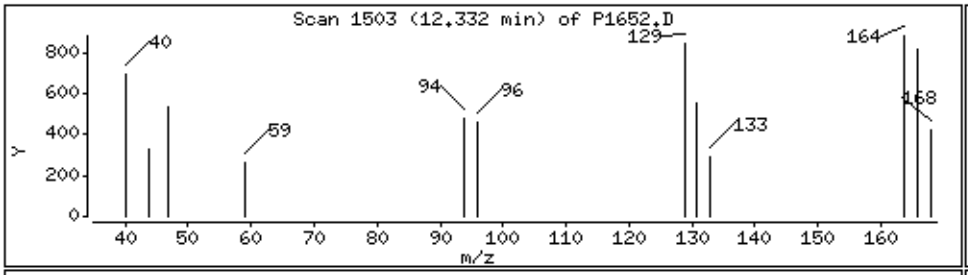


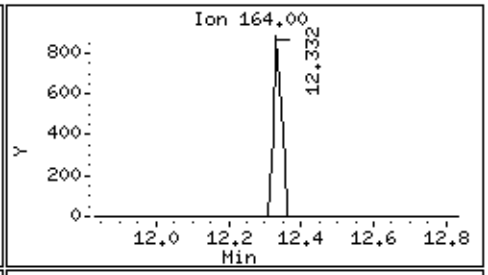


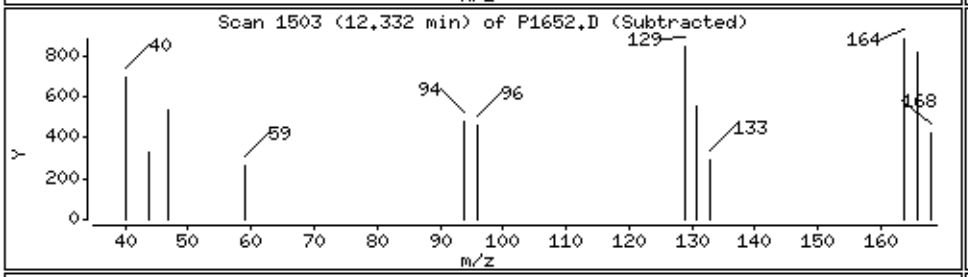


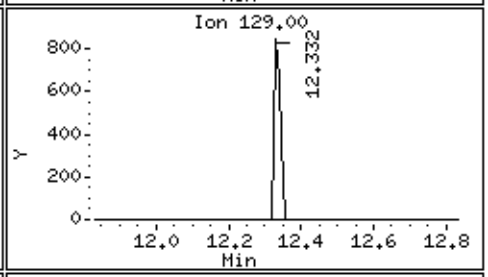


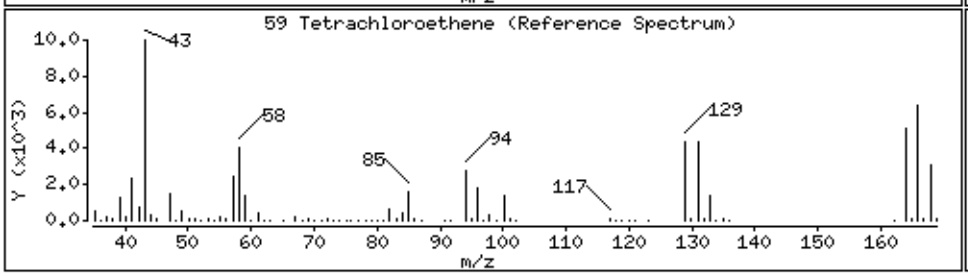
59 Tetrachloroethene Concentration: 4.2 ug/l

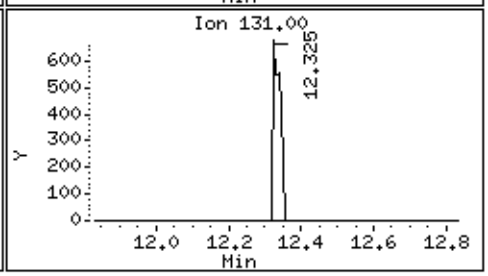












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-5
Client ID: RE103D2-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1627.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	J	0.81	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113		4.3	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		7.3	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.4	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.94	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	J	0.25	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	E	740	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	J	0.57	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	J	0.88	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-5
Client ID: RE103D2-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1627.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	J	1.4	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		100.	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		102.	%					
Dibromofluoromethane		96.6	%					

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P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1627.D
Report Date: 26-Jun-2015 06:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1627.D
Lab Smp Id: SI4462-5 Client Smp ID: RE103D2-GW-062215
Inj Date : 25-JUN-2015 18:47 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-5
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

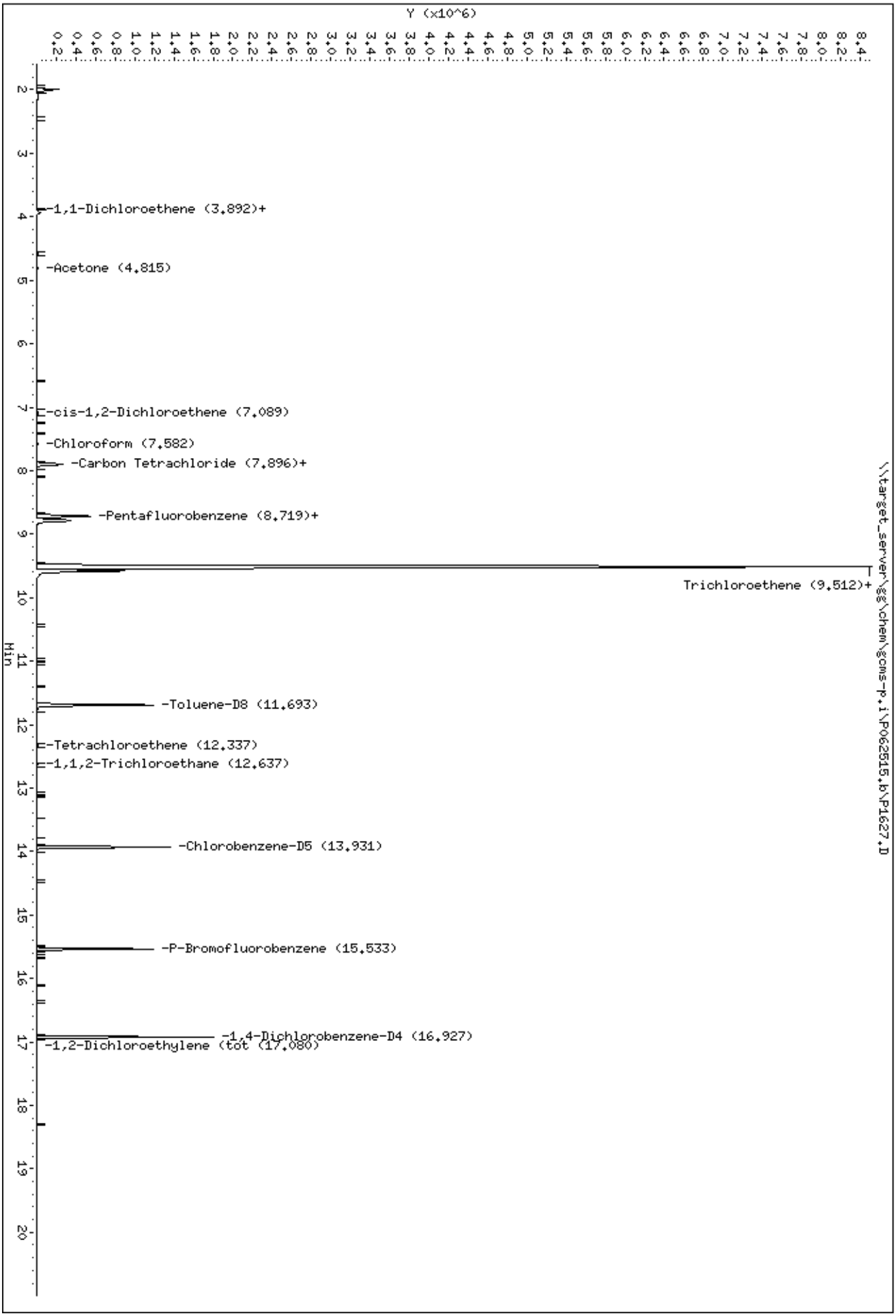
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	9 1,1-Dichloroethene	96	3.892	3.889	(0.446)	3064	0.81203	0.81(a)	
	11 Freon-113	151	3.935	3.939	(0.451)	10453	4.34444	4.3	
	15 Acetone	43	4.814	4.804	(0.552)	12287	7.31354	7.3	
	29 cis-1,2-Dichloroethene	96	7.088	7.085	(0.813)	6785	1.37950	1.4	
M	30 1,2-Dichloroethylene (total)	96				6785	1.37950	1.4(a)	
	34 Chloroform	83	7.581	7.578	(0.870)	7514	0.94174	0.94(a)	
	35 Carbon Tetrachloride	117	7.803	7.800	(0.815)	1182	0.24782	0.25(a)	
$	37 Dibromofluoromethane	113	7.896	7.900	(0.906)	192034	48.3176	48.3	
*	42 Pentafluorobenzene	168	8.718	8.715	(1.000)	367436	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.790	8.787	(1.008)	283347	50.7654	50.8	
	48 Trichloroethene	95	9.512	9.509	(0.993)	3220788	741.923	742(A)	
*	49 1,4-Difluorobenzene	114	9.576	9.573	(1.000)	677460	50.0000		
$	55 Toluene-D8	98	11.693	11.690	(1.221)	756258	50.4624	50.5	
	59 Tetrachloroethene	164	12.329	12.333	(0.885)	2728	0.87864	0.88(a)	
	61 1,1,2-Trichloroethane	83	12.637	12.634	(1.320)	1937	0.57303	0.57(a)	
*	66 Chlorobenzene-D5	117	13.931	13.935	(1.000)	625283	50.0000		
$	76 P-Bromofluorobenzene	95	15.532	15.537	(1.622)	341356	50.0736	50.1	
*	91 1,4-Dichlorobenzene-D4	152	16.927	16.924	(1.000)	352111	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.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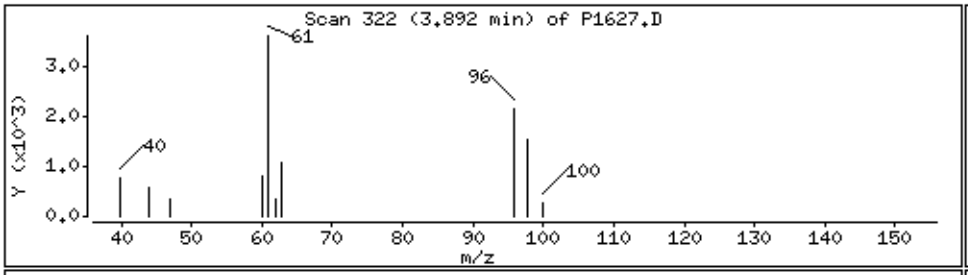
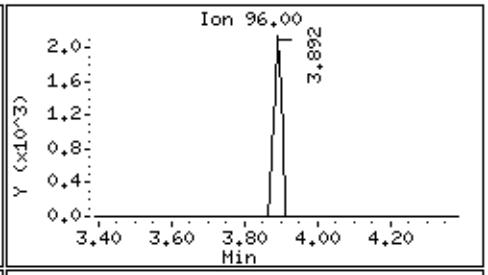
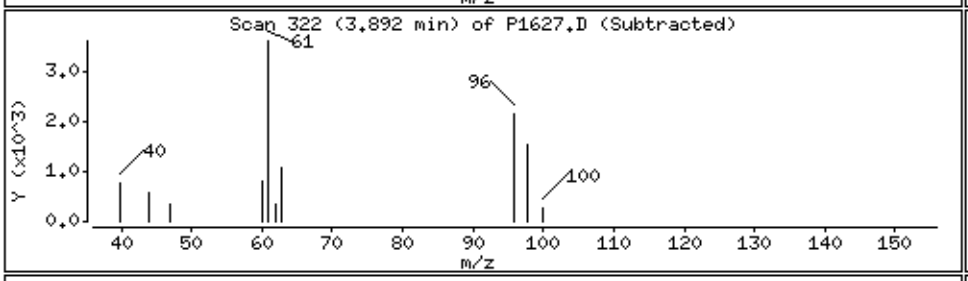
Date : 25-JUN-2015 18:47
Client ID: RE103D2-GW-062215
Sample Info: SI4462-5
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1627.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.892)+
-Acetone (4.815)
-cis-1,2-Dichloroethene (7.089)
-Chloroform (7.582)
-Carbon Tetrachloride (7.896)+
-Pentafluorobenzene (8.719)+
Trichloroethene (9.512)+
-Toluene-D8 (11.693)
-Tetrachloroethene (12.337)
-1,1,2-Trichloroethane (12.637)
-Chlorobenzene-D5 (13.931)
-P-Bromofluorobenzene (15.533)
-1,4-Dichlorobenzene-D4 (16.927)
-1,2-Dichloroethylene (tot (17.080)

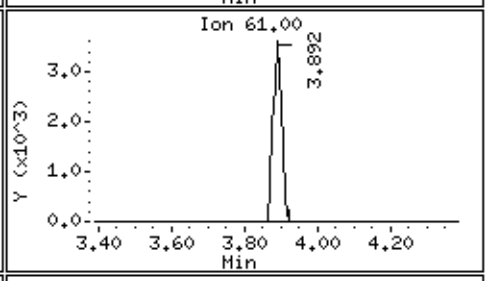
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1627.D
Date : 25-JUN-2015 18:47
Client ID: RE103D2-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-5

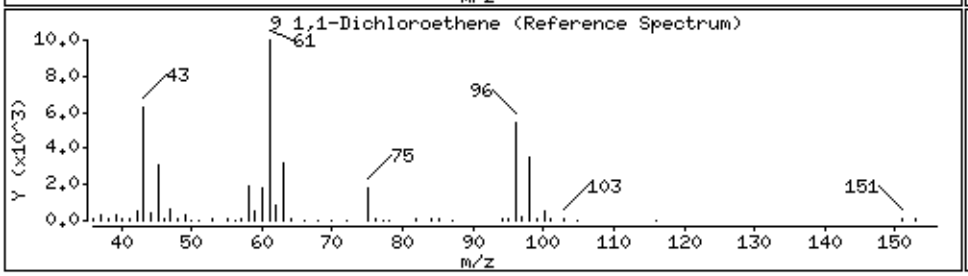
9 1,1-Dichloroethene Concentration: 0.81 ug/l

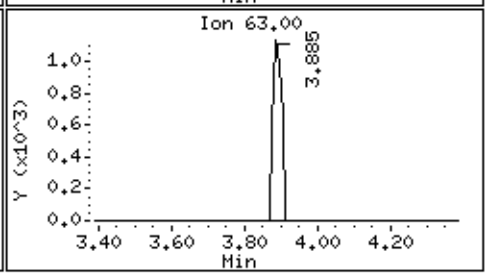




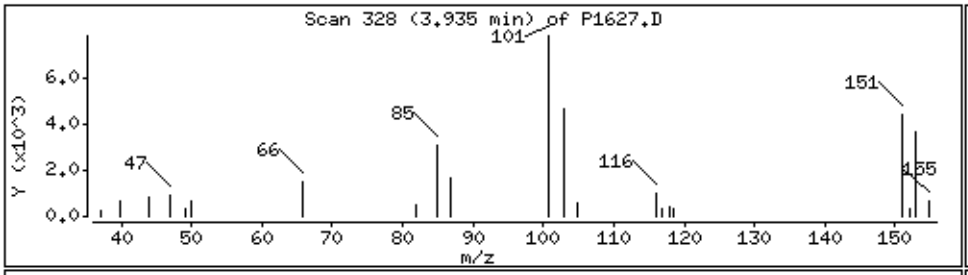


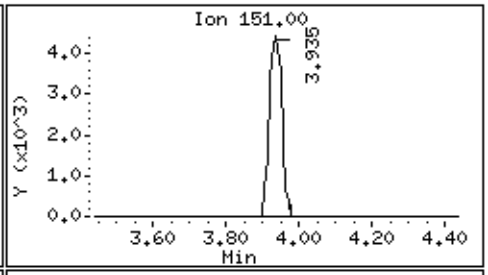


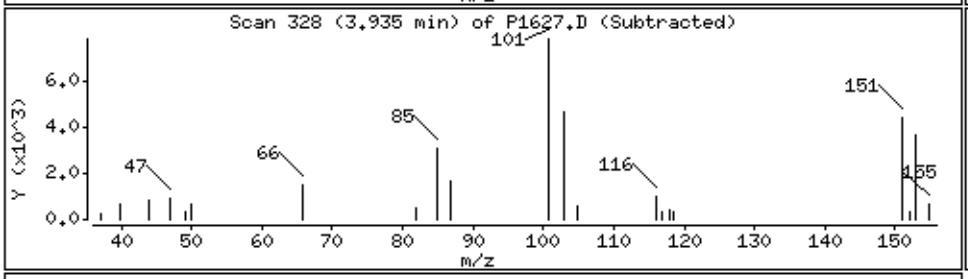


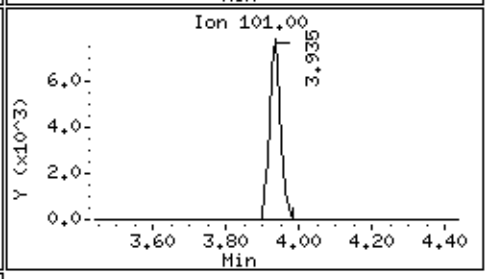


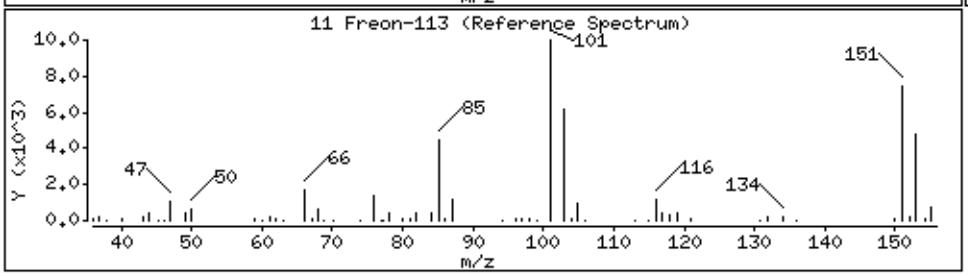
11 Freon-113 Concentration: 4.3 ug/l





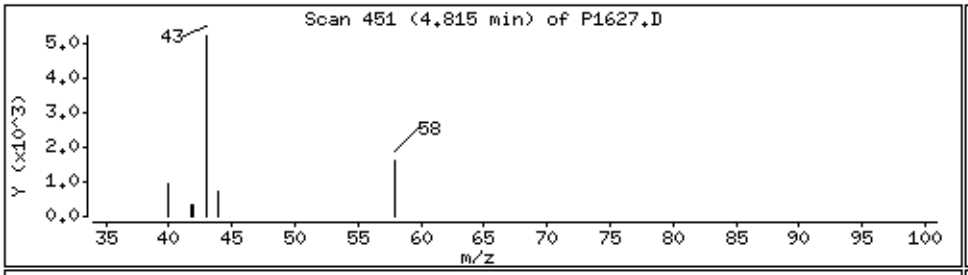


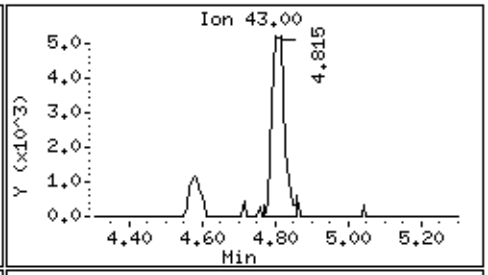


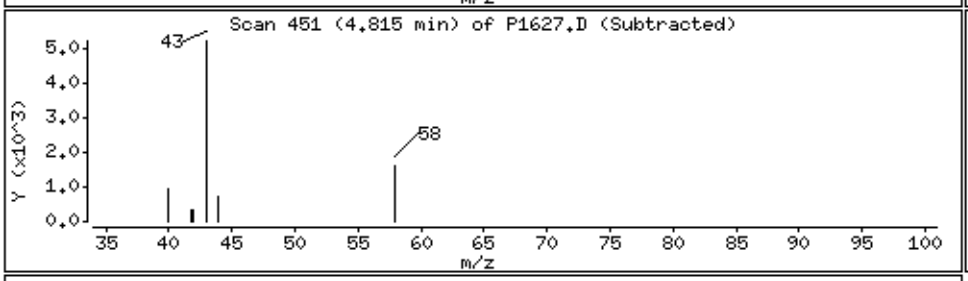


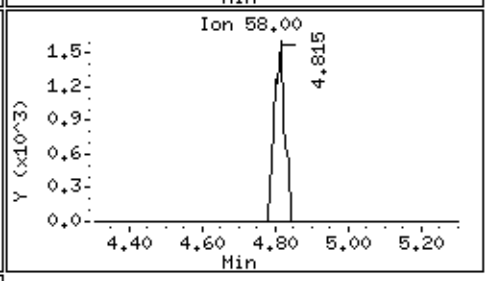
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1627.D
Date : 25-JUN-2015 18:47
Client ID: RE103D2-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-5

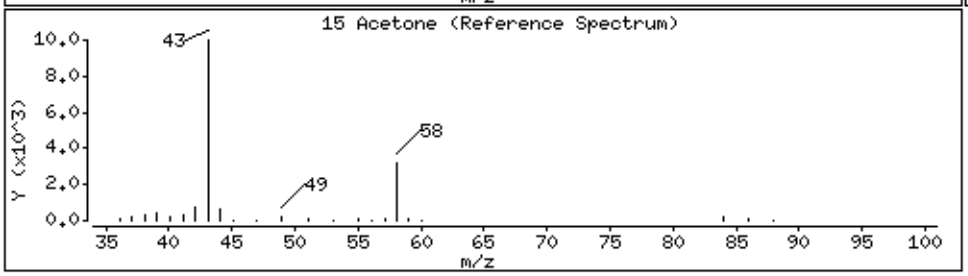
15 Acetone Concentration: 7.3 ug/l



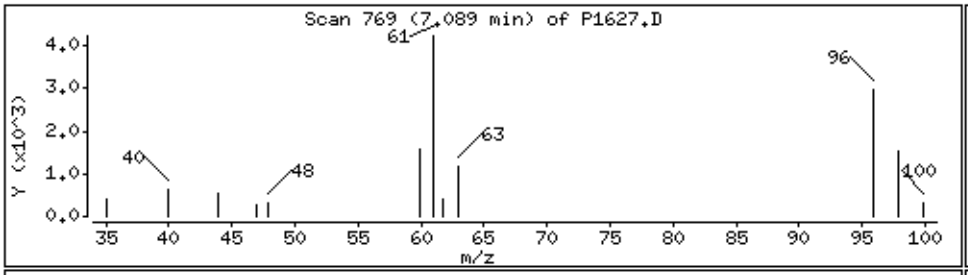


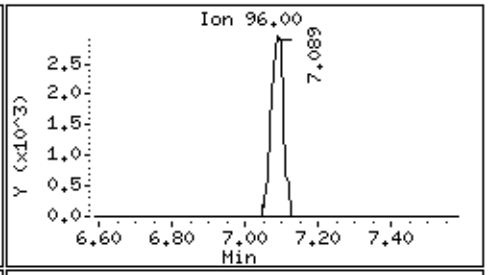


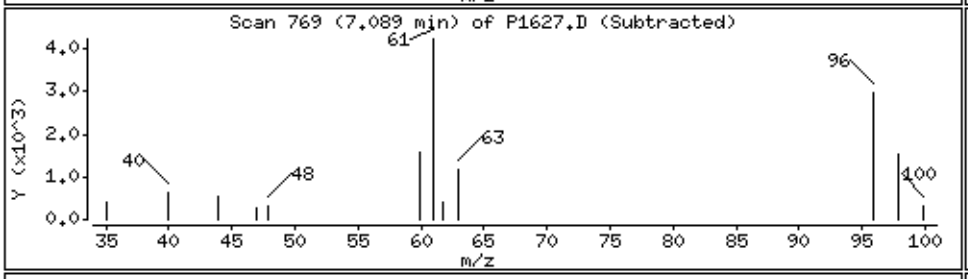


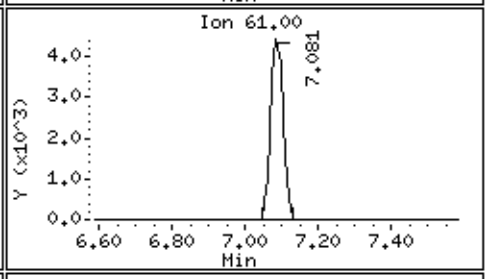


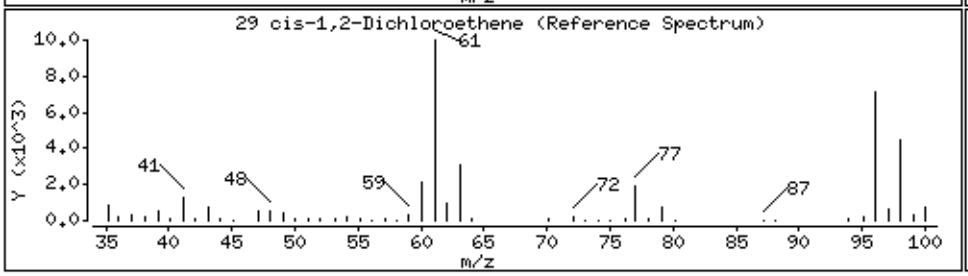
29 cis-1,2-Dichloroethene Concentration: 1.4 ug/l

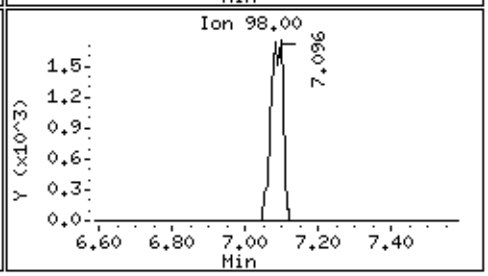






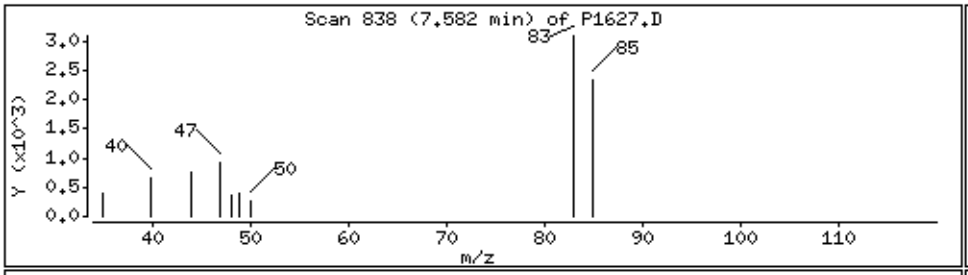


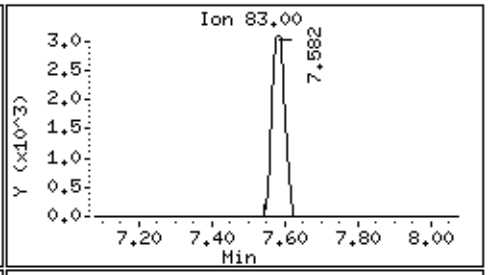


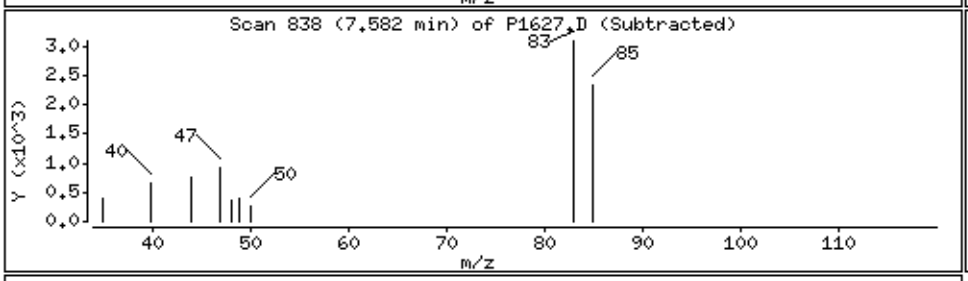


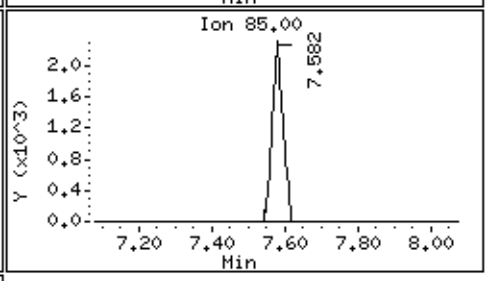
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1627.D
Date : 25-JUN-2015 18:47
Client ID: RE103D2-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-5

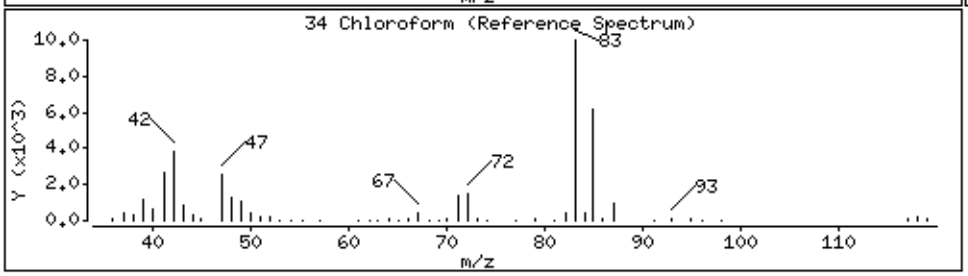
34 Chloroform Concentration: 0.94 ug/l



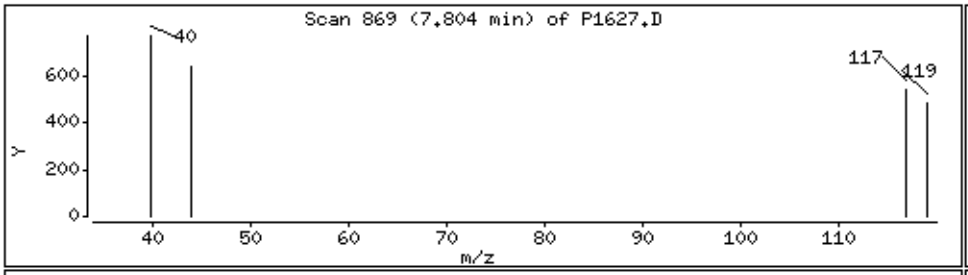


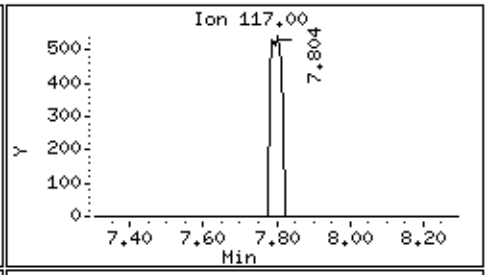


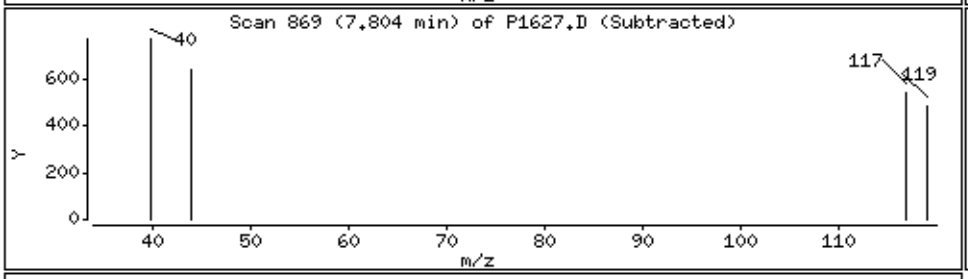


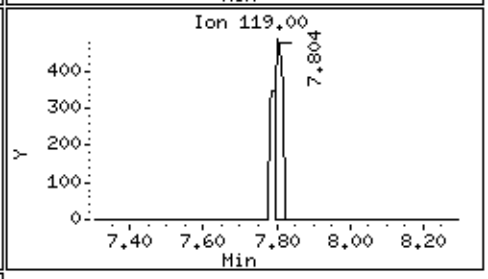


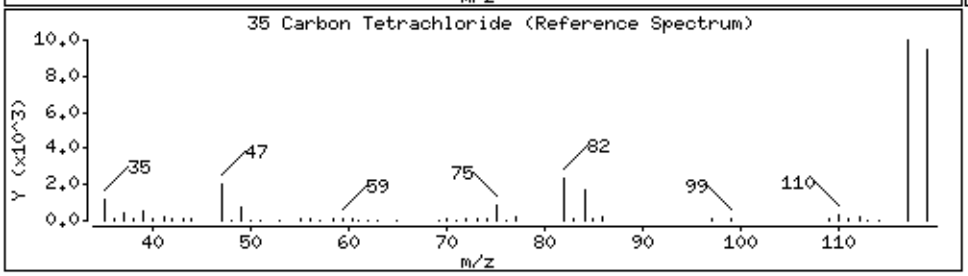
35 Carbon Tetrachloride Concentration: 0.25 ug/l





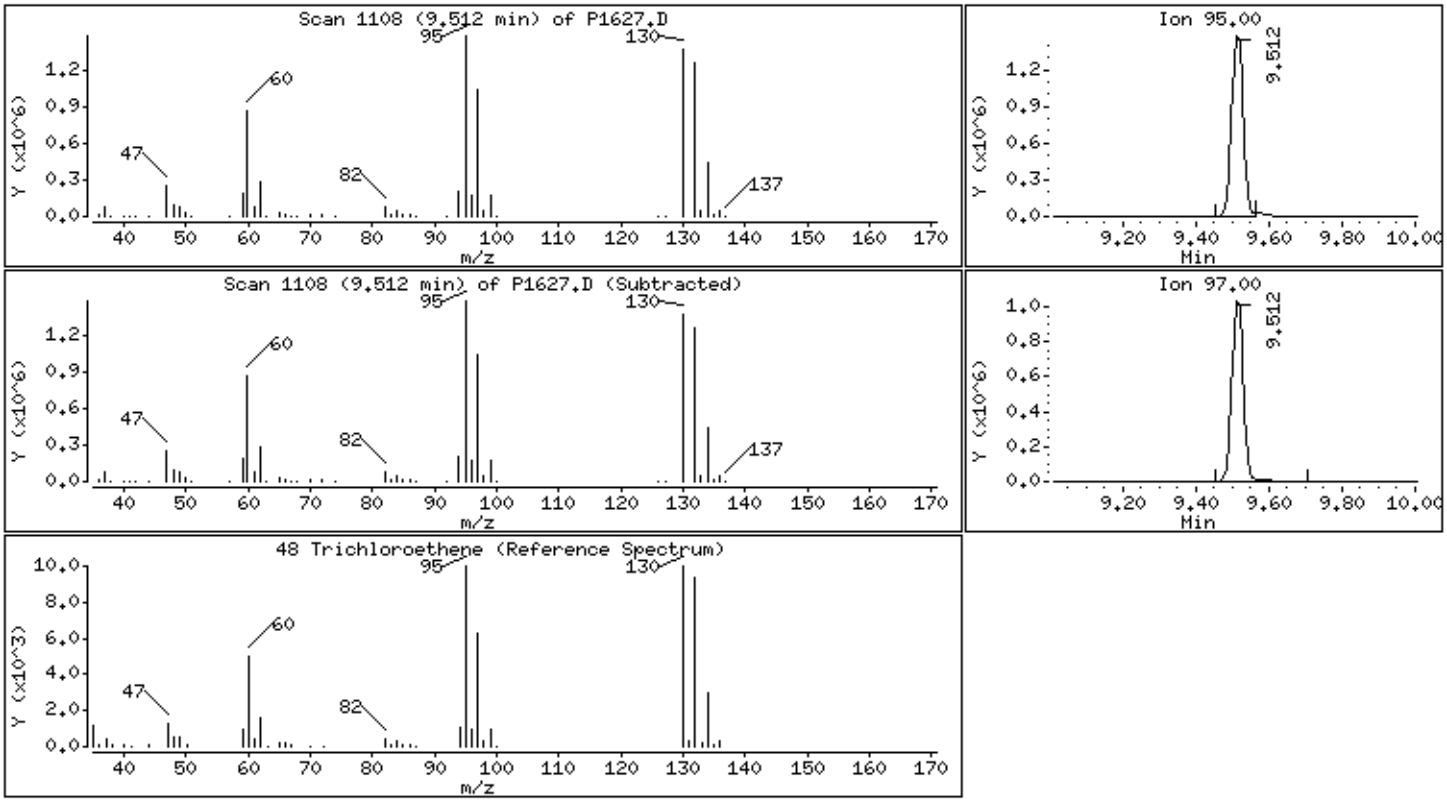




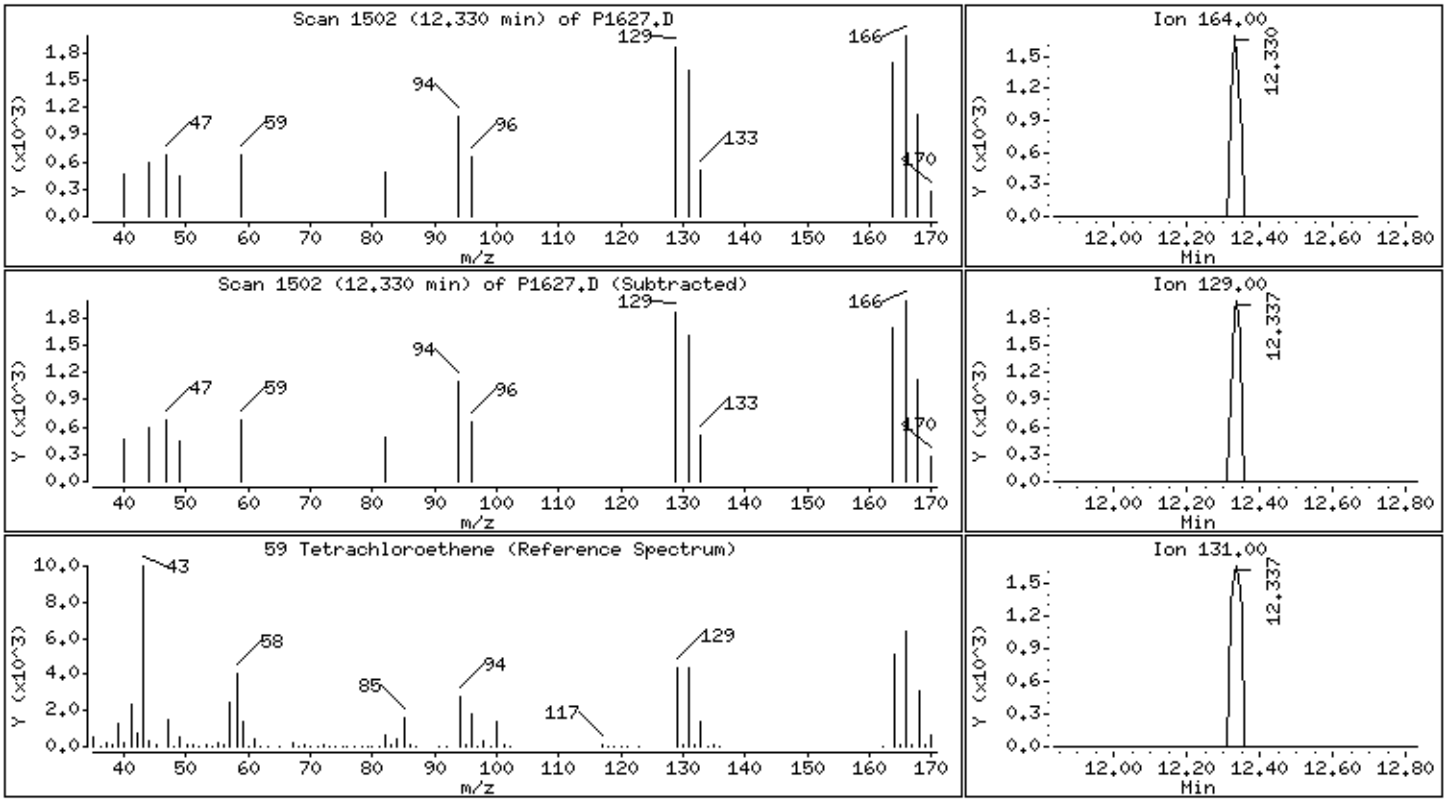


Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1627.D
Date : 25-JUN-2015 18:47
Client ID: RE103D2-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-5

48 Trichloroethene Concentration: 742 ug/l



59 Tetrachloroethene Concentration: 0.88 ug/l



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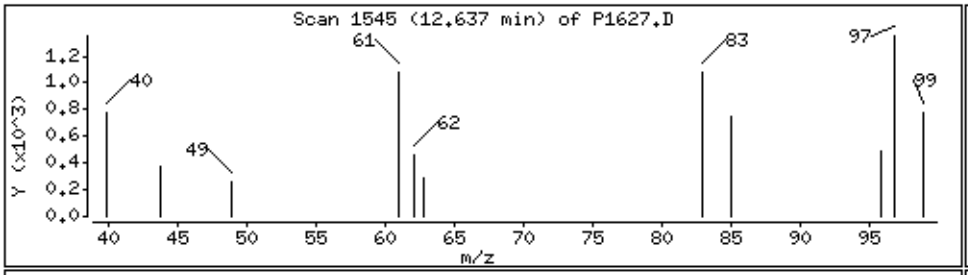
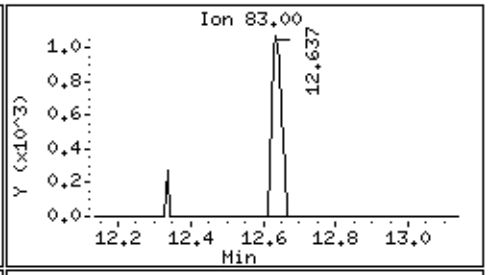
Date : 25-JUN-2015 18:47

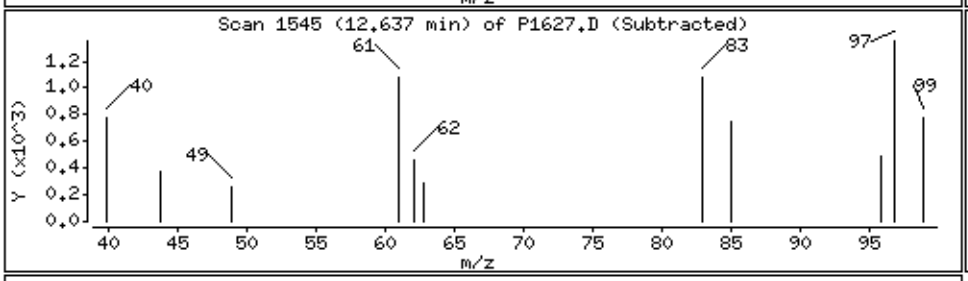
Client ID: RE103D2-GW-062215 Instrument: gcms-p.i

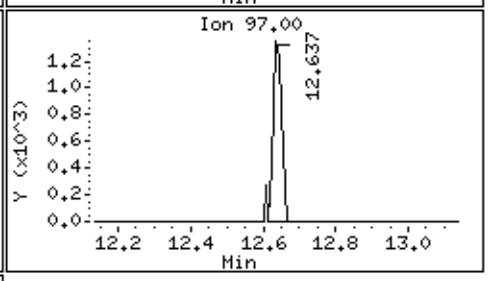
Sample Info: SI4462-5

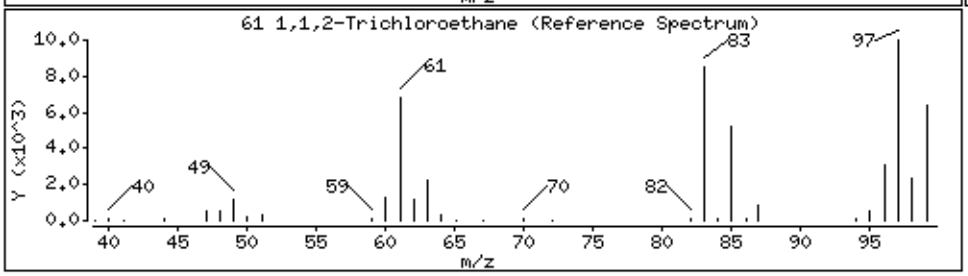
61 1,1,2-Trichloroethane Concentration: 0.57 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-5DL
Client ID: RE103D2-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1653.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	10	2	20.	2.4	10.
Chloromethane	U	10	ug/L	10	2	20.	3.6	10.
Vinyl Chloride	U	10	ug/L	10	2	20.	2.5	10.
Bromomethane	U	10	ug/L	10	2	20.	4.9	10.
Chloroethane	U	10	ug/L	10	2	20.	5.5	10.
Trichlorofluoromethane	U	10	ug/L	10	2	20.	2.4	10.
1,1-Dichloroethene	U	5.0	ug/L	10	1	10.	3.5	5.0
Carbon Disulfide	U	5.0	ug/L	10	1	10.	2.5	5.0
Freon-113	U	5.0	ug/L	10	1	10.	3.1	5.0
Methylene Chloride	U	25	ug/L	10	5	50.	11.	25.
Acetone	U	25	ug/L	10	5	50.	22.	25.
trans-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.5	5.0
Methyl tert-butyl Ether	U	5.0	ug/L	10	1	10.	3.6	5.0
1,1-Dichloroethane	U	5.0	ug/L	10	1	10.	2.1	5.0
cis-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.1	5.0
Chloroform	U	5.0	ug/L	10	1	10.	3.2	5.0
1,1,1-Trichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
2-Butanone	U	25	ug/L	10	5	50.	13.	25.
Cyclohexane	U	5.0	ug/L	10	1	10.	3.1	5.0
Carbon Tetrachloride	U	5.0	ug/L	10	1	10.	2.2	5.0
Benzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,2-Dichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
Trichloroethene		770	ug/L	10	1	10.	2.8	5.0
1,2-Dichloropropane	U	5.0	ug/L	10	1	10.	2.5	5.0
Bromodichloromethane	U	5.0	ug/L	10	1	10.	3.3	5.0
cis-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	1.9	5.0
Toluene	U	5.0	ug/L	10	1	10.	2.7	5.0
4-Methyl-2-Pentanone	U	25	ug/L	10	5	50.	13.	25.
trans-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	2.0	5.0
1,1,2-Trichloroethane	U	5.0	ug/L	10	1	10.	3.3	5.0
Tetrachloroethene	U	5.0	ug/L	10	1	10.	4.0	5.0
Dibromochloromethane	U	5.0	ug/L	10	1	10.	3.0	5.0
2-Hexanone	U	25	ug/L	10	5	50.	17.	25.
Chlorobenzene	U	5.0	ug/L	10	1	10.	2.2	5.0
Ethylbenzene	U	5.0	ug/L	10	1	10.	2.1	5.0

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-5DL
Client ID: RE103D2-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1653.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	15	ug/L	10	3	30.	2.5	15.
Styrene	U	5.0	ug/L	10	1	10.	2.3	5.0
Bromoform	U	5.0	ug/L	10	1	10.	2.3	5.0
Isopropylbenzene	U	5.0	ug/L	10	1	10.	2.3	5.0
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	10	1	10.	3.8	5.0
1,3-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,4-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.4	5.0
1,2-Dichlorobenzene	U	5.0	ug/L	10	1	10.	1.5	5.0
1,2,4-Trichlorobenzene	U	5.0	ug/L	10	1	10.	3.7	5.0
Methyl Acetate	U	7.5	ug/L	10	1	10.	5.3	7.5
Methylcyclohexane	U	5.0	ug/L	10	1	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	10	1	10.	2.5	5.0
M+P-Xylenes	U	10	ug/L	10	2	20.	5.9	10.
1,2-Dichloroethylene (Total)	U	10	ug/L	10	2	20.	2.1	10.
1,2-Dibromoethane	U	5.0	ug/L	10	1	10.	2.2	5.0
1,2-Dibromo-3-Chloropropane	U	7.5	ug/L	10	1	10.	5.0	7.5
P-Bromofluorobenzene		91.9	%					
Toluene-d8		94.0	%					
1,2-Dichloroethane-d4		99.2	%					
Dibromofluoromethane		90.9	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1653.D
Report Date: 06-Jul-2015 14:54

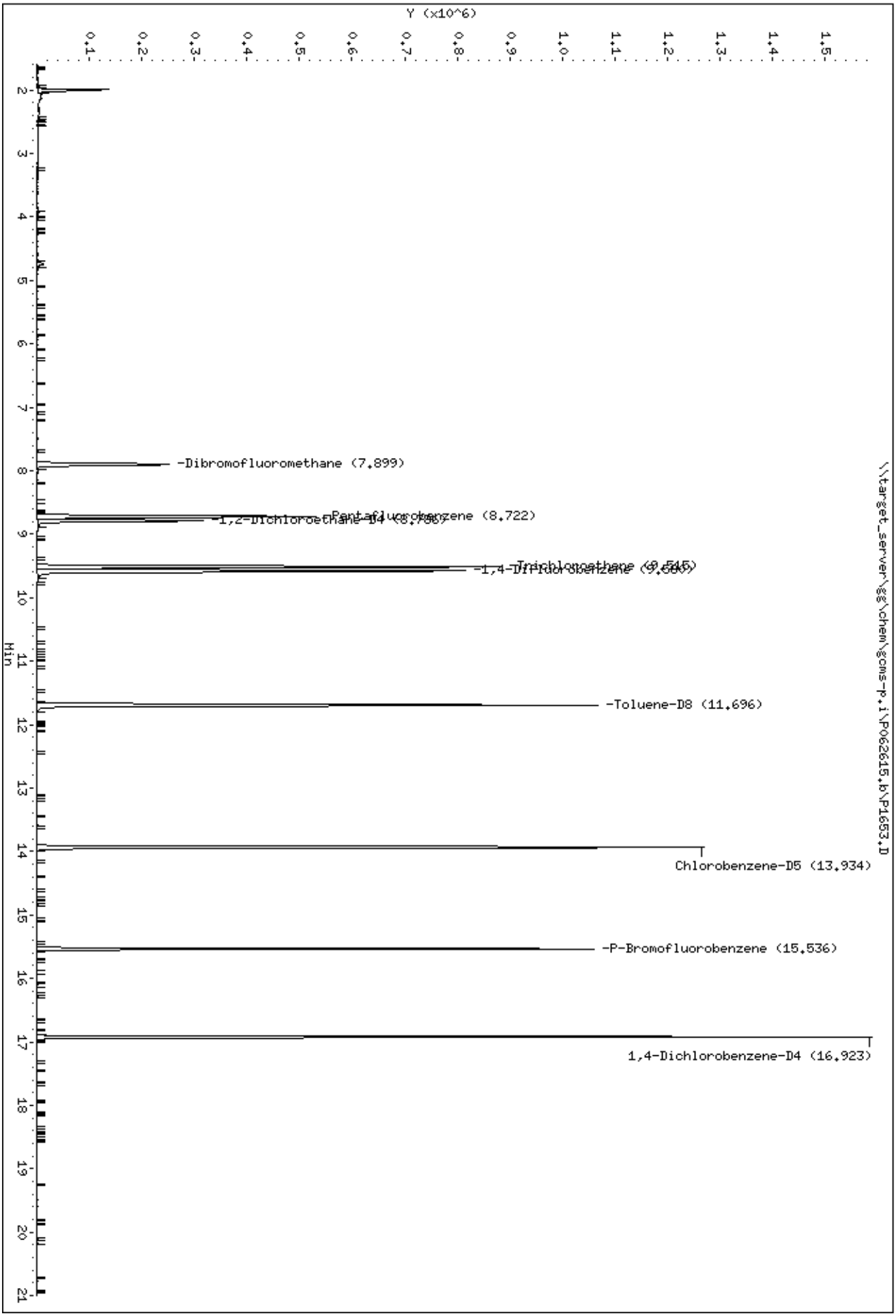
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1653.D
Lab Smp Id: SI4462-5DL Client Smp ID: RE103D2-GW-062215
Inj Date : 26-JUN-2015 17:21 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-5DL
Misc Info : WG165523,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 18
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.899	7.900	(0.906)	170386	45.4583	45.4	
* 42 Pentafluorobenzene	168	8.721	8.715	(1.000)	346521	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.785	8.787	(1.007)	260971	49.5785	49.6	
48 Trichloroethene	95	9.515	9.509	(0.993)	325645	77.2285	772	
* 49 1,4-Difluorobenzene	114	9.579	9.573	(1.000)	658032	50.0000		
$ 55 Toluene-D8	98	11.696	11.690	(1.221)	684590	47.0290	47.0	
* 66 Chlorobenzene-D5	117	13.933	13.935	(1.000)	598884	50.0000		
$ 76 P-Bromofluorobenzene	95	15.535	15.537	(1.622)	304371	45.9665	46.0	
* 91 1,4-Dichlorobenzene-D4	152	16.929	16.924	(1.000)	331686	50.0000		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Date : 26-JUN-2015 17:21
Client ID: RE103D2-GW-062215
Sample Info: SI4462-5DL
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062615.b\P1653.D
Y (x10^6)
Min
-Dibromofluoromethane (7.899)
-Pentafluorobenzene (8.722)
-1,2-Dichloroethane-D4 (8.786)
-Trichloroethane (9.545)
-1,4-Difluorobenzene (9.606)
-Toluene-D8 (11.696)
Chlorobenzene-D5 (13.934)
-P-Bromofluorobenzene (15.536)
1,4-Dichlorobenzene-D4 (16.923)

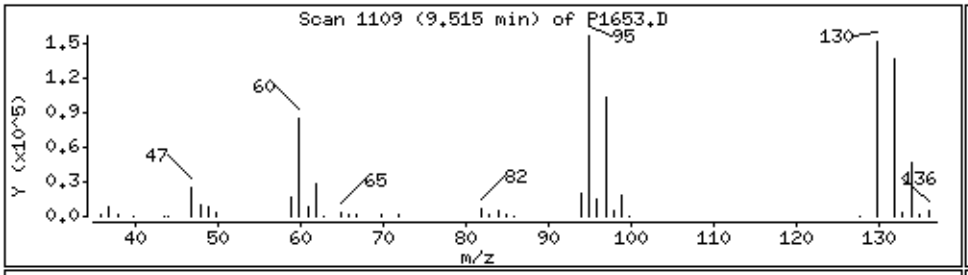
Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1653.D

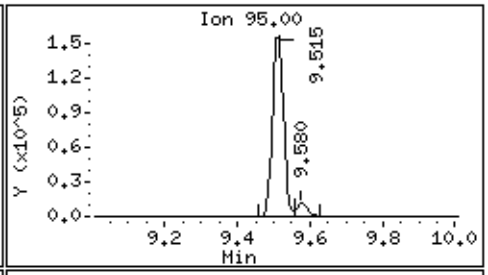
Date : 26-JUN-2015 17:21

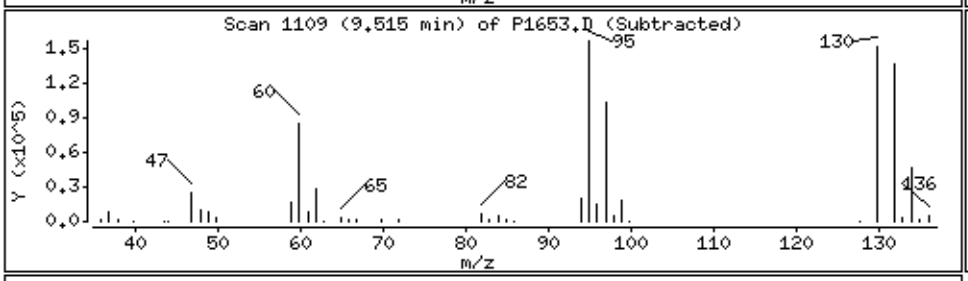
Client ID: RE103D2-GW-062215 Instrument: gcms-p.i

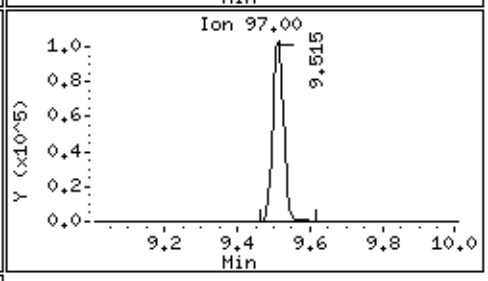
Sample Info: SI4462-5DL

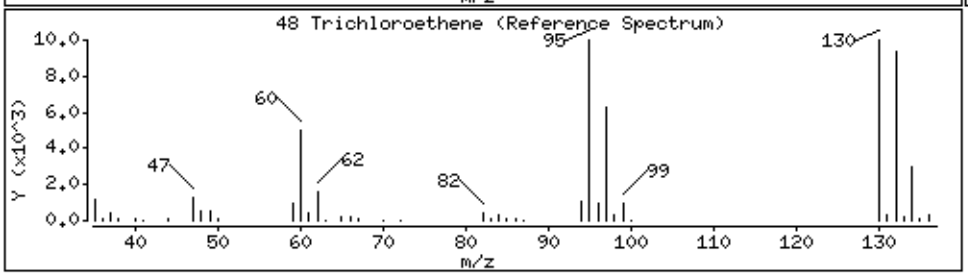
48 Trichloroethene Concentration: 772 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-6
Client ID: RE103D3-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1628.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	J	0.47	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113		2.0	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	J	0.89	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.69	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	E	440	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

600 Technology Way
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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-6
Client ID: RE103D3-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1628.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	J	0.89	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		98.6	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		104.	%					
Dibromofluoromethane		98.1	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1628.D
Report Date: 26-Jun-2015 06:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1628.D
Lab Smp Id: SI4462-6 Client Smp ID: RE103D3-GW-062215
Inj Date : 25-JUN-2015 19:16 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-6
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

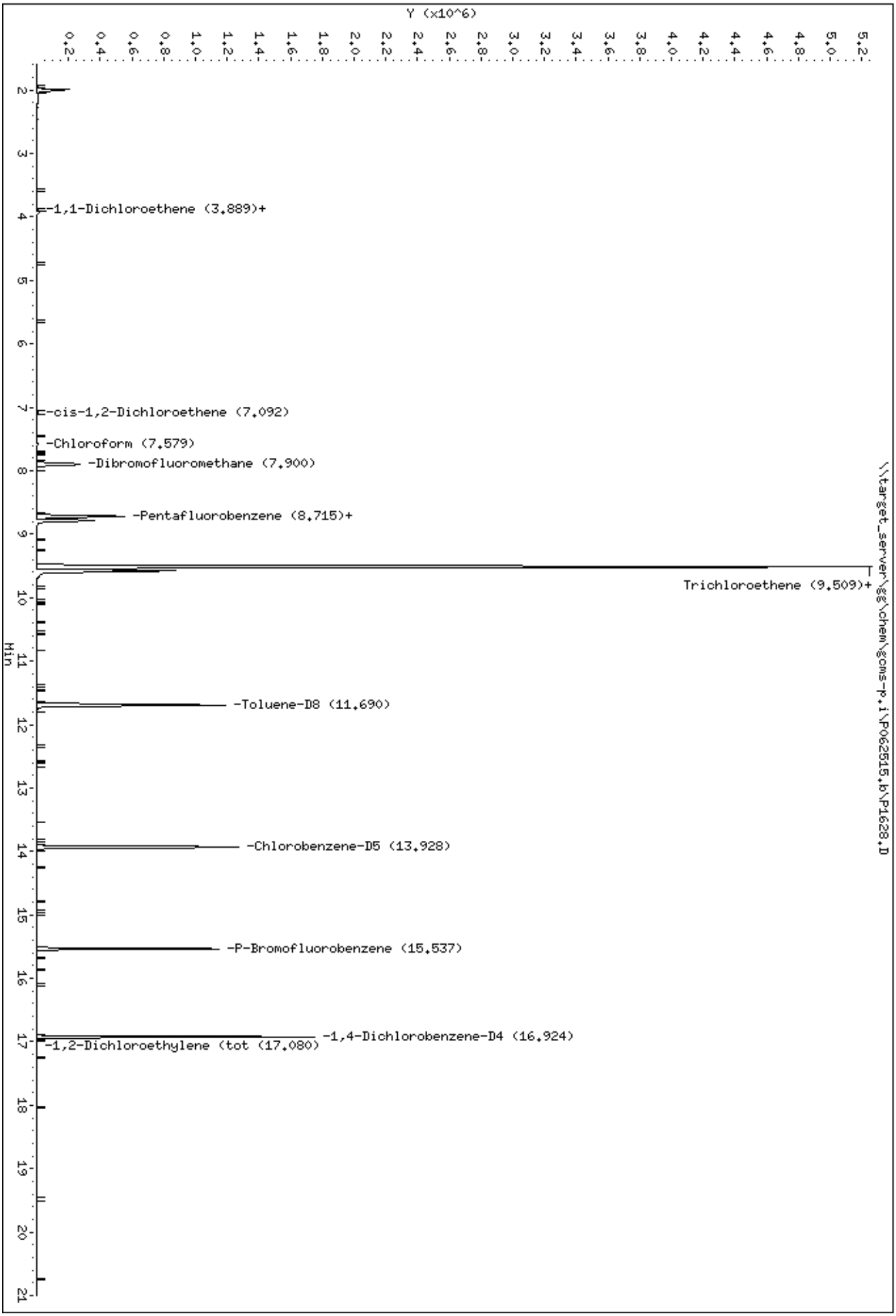
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	1761	0.46921	0.47(a)	
	11 Freon-113	151	3.932	3.939	(0.451)	4776	1.99565	2.0	
	29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.814)	4368	0.89286	0.89(a)	
M	30 1,2-Dichloroethylene (total)	96				4368	0.89286	0.89(a)	
	34 Chloroform	83	7.578	7.578	(0.870)	5514	0.69479	0.69(a)	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	193959	49.0642	49.1	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	365472	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.008)	287822	51.8443	51.8	
	48 Trichloroethene	95	9.509	9.509	(0.993)	1949980	438.880	439(A)	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	693370	50.0000		
$	55 Toluene-D8	98	11.689	11.690	(1.220)	771017	50.2668	50.3	
*	66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	622762	50.0000		
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	344154	49.3256	49.3	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	351654	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.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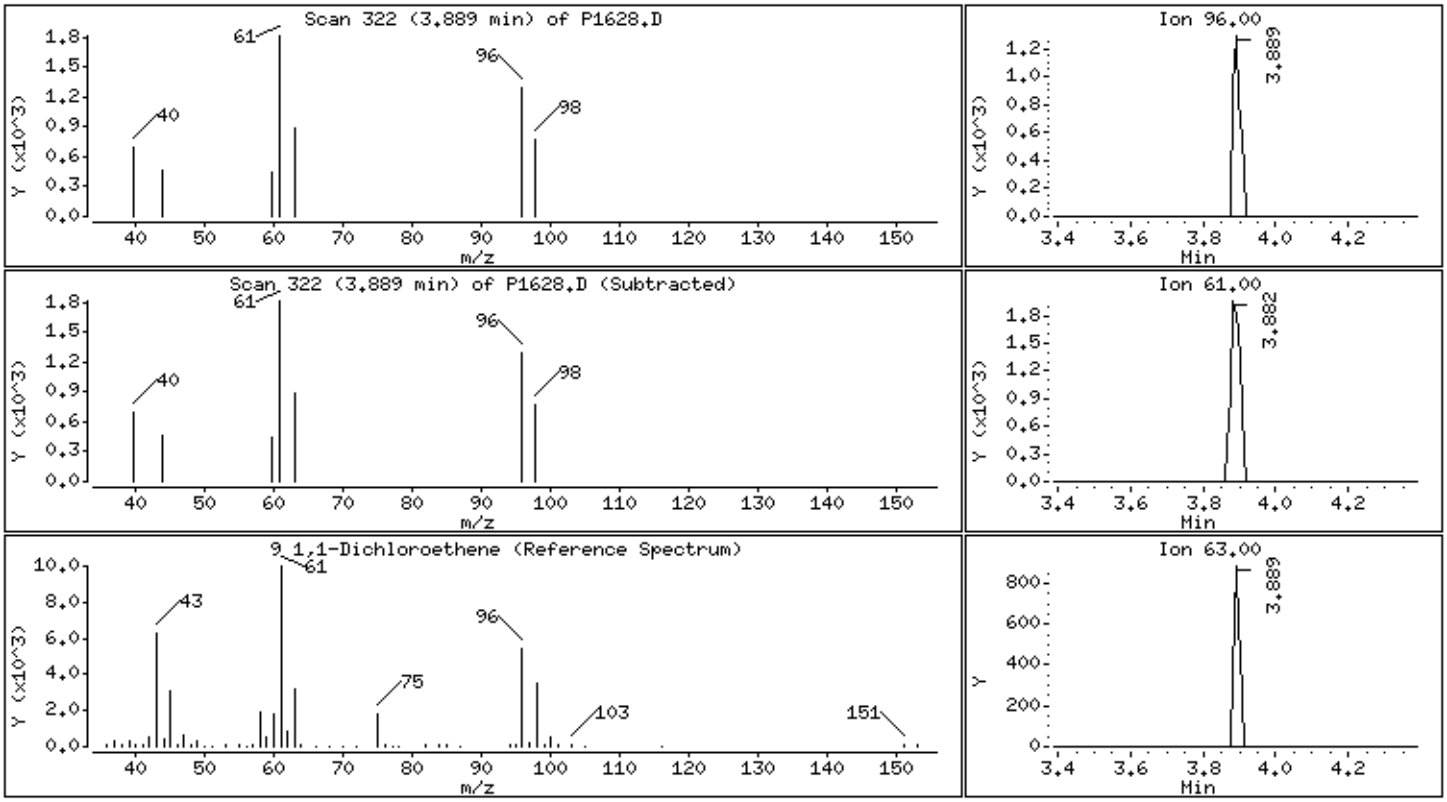
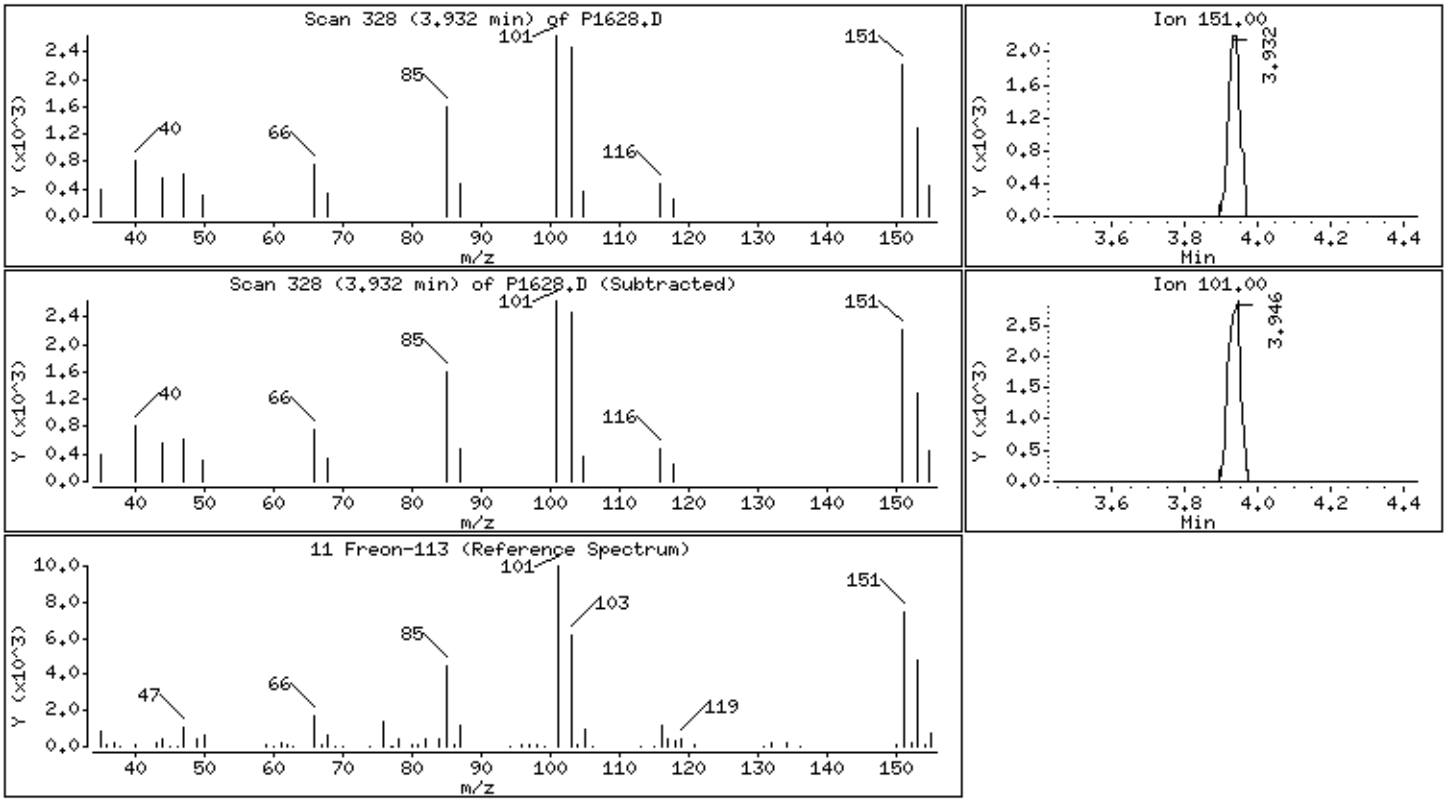
Date : 25-JUN-2015 19:16
Client ID: RE103D3-GW-062215
Sample Info: SI4462-6
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1628.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.889)+
-cis-1,2-Dichloroethene (7.092)
-Chloroform (7.579)
-Dibromofluoromethane (7.900)
-Pentafluorobenzene (8.715)+
Trichloroethene (9.509)+
-Toluene-D8 (11.690)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
-1,4-Dichlorobenzene-D4 (16.924)
-1,2-Dichloroethylene (tot (17.080)

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1628.D
Date : 25-JUN-2015 19:16
Client ID: RE103D3-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-6

9 1,1-Dichloroethene Concentration: 0.47 ug/l



11 Freon-113 Concentration: 2.0 ug/l



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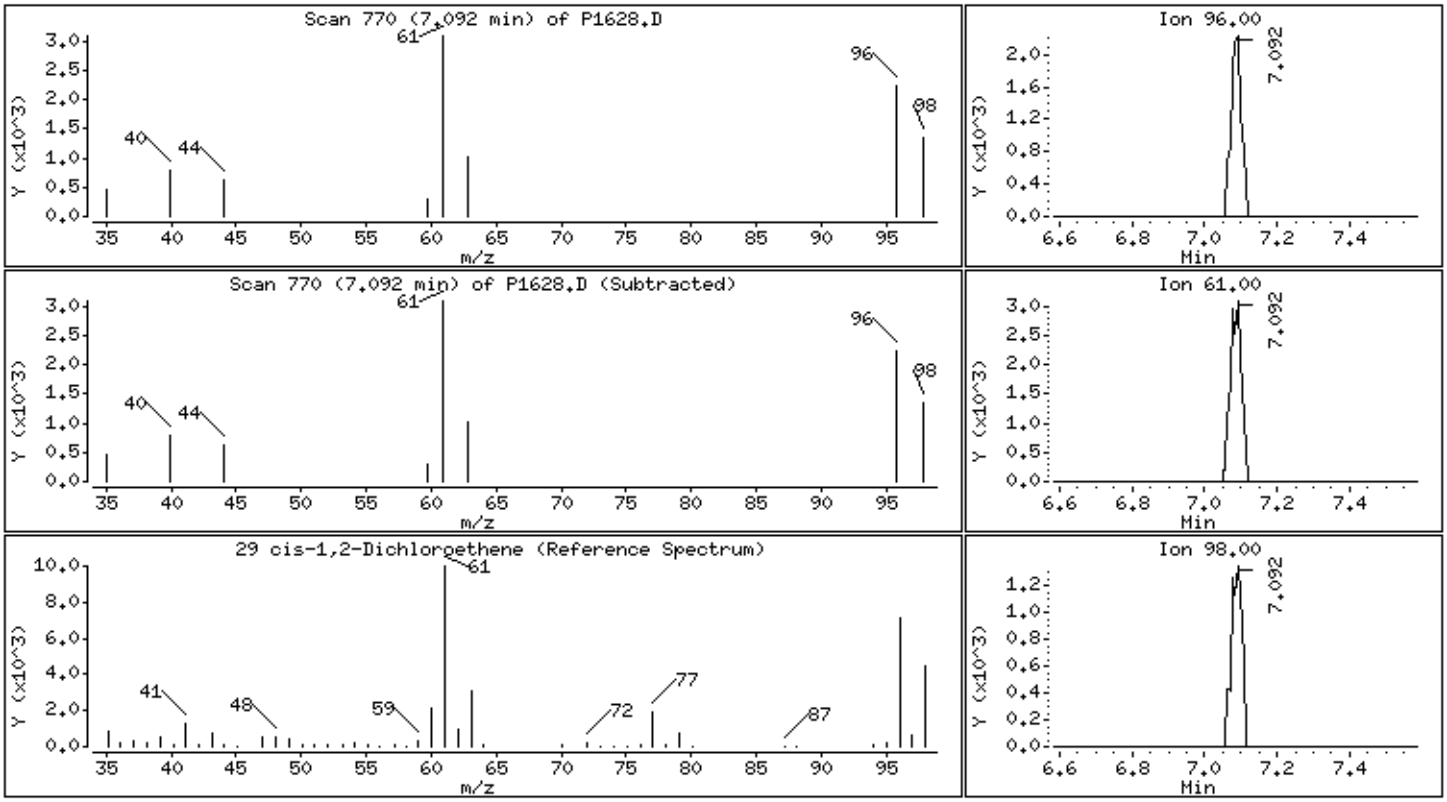
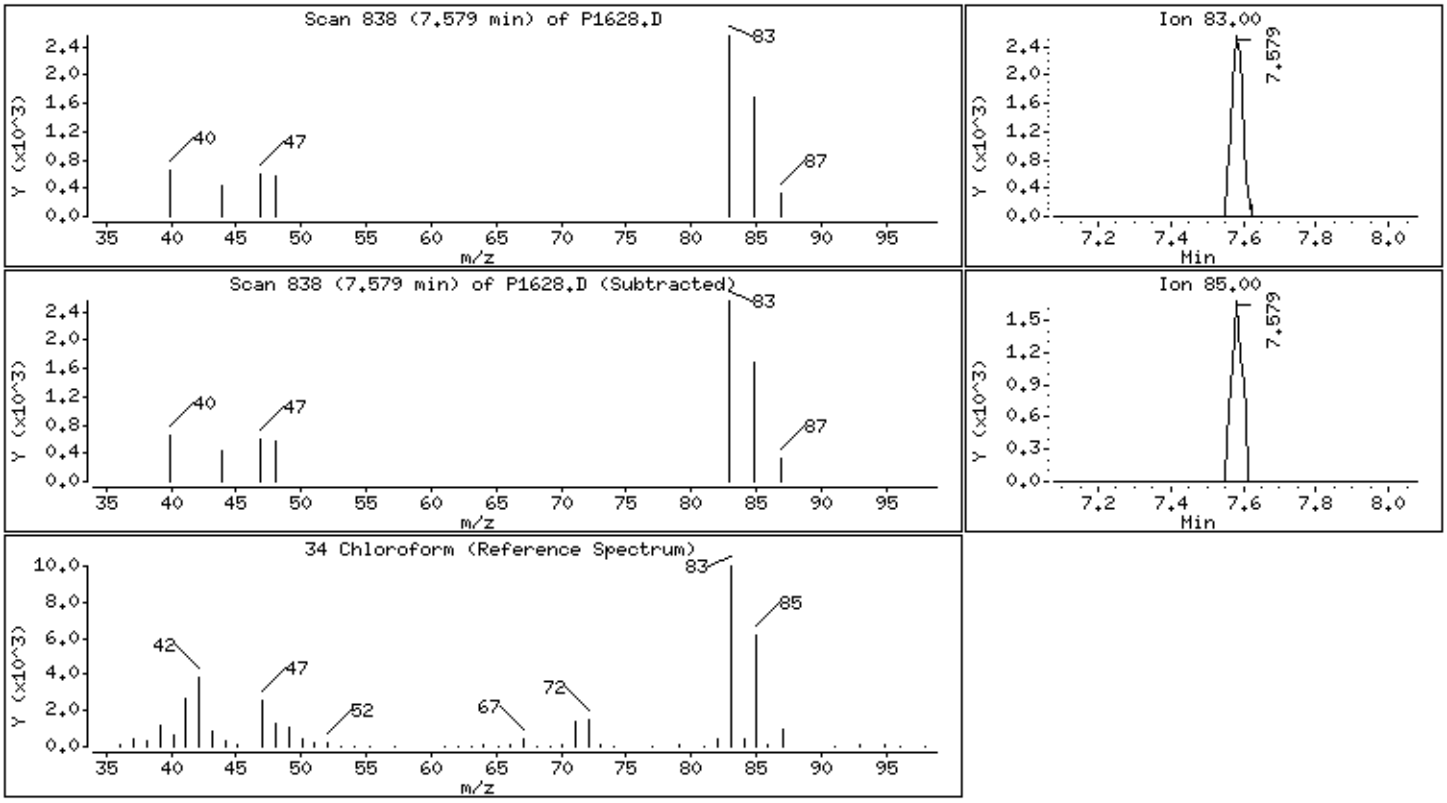
Date : 25-JUN-2015 19:16
Client ID: RE103D3-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-6

29 cis-1,2-Dichloroethene Concentration: 0.89 ug/l



34 Chloroform Concentration: 0.69 ug/l



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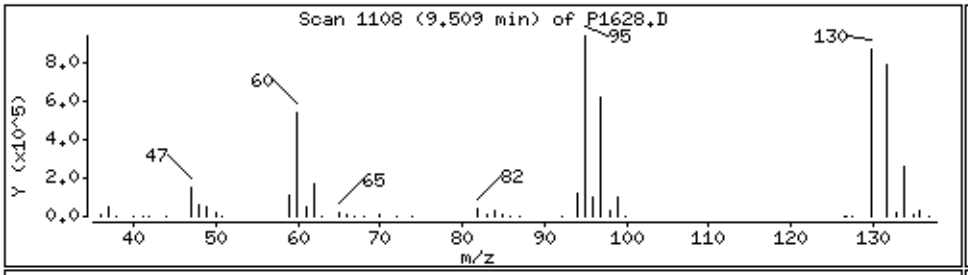
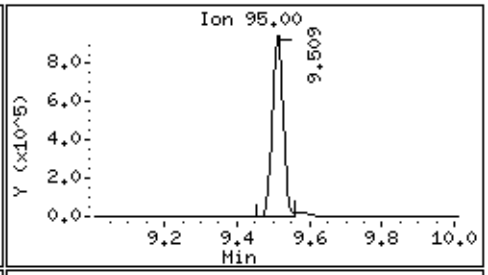
Date : 25-JUN-2015 19:16

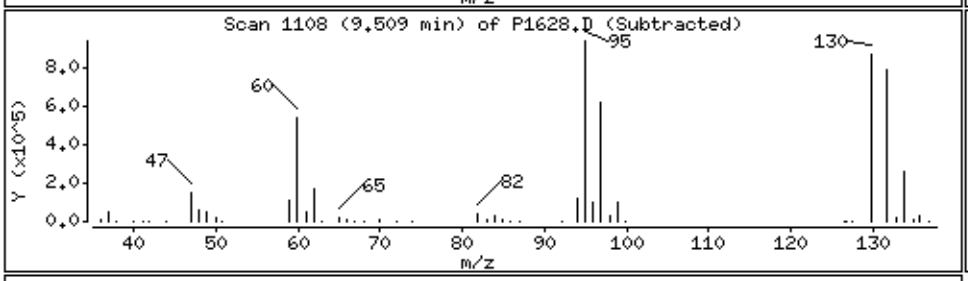
Client ID: RE103D3-GW-062215 Instrument: gcms-p.i

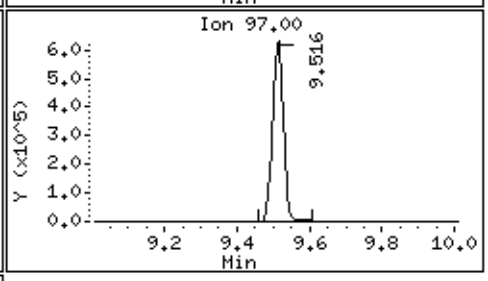
Sample Info: SI4462-6

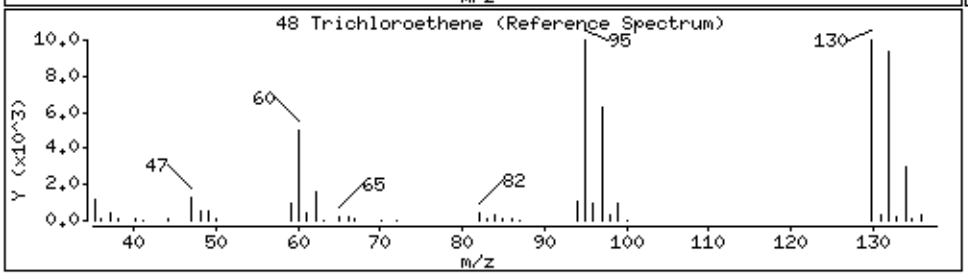
48 Trichloroethene Concentration: 439 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-6DL
Client ID: RE103D3-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1654.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	10	2	20.	2.4	10.
Chloromethane	U	10	ug/L	10	2	20.	3.6	10.
Vinyl Chloride	U	10	ug/L	10	2	20.	2.5	10.
Bromomethane	U	10	ug/L	10	2	20.	4.9	10.
Chloroethane	U	10	ug/L	10	2	20.	5.5	10.
Trichlorofluoromethane	U	10	ug/L	10	2	20.	2.4	10.
1,1-Dichloroethene	U	5.0	ug/L	10	1	10.	3.5	5.0
Carbon Disulfide	U	5.0	ug/L	10	1	10.	2.5	5.0
Freon-113	U	5.0	ug/L	10	1	10.	3.1	5.0
Methylene Chloride	U	25	ug/L	10	5	50.	11.	25.
Acetone	U	25	ug/L	10	5	50.	22.	25.
trans-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.5	5.0
Methyl tert-butyl Ether	U	5.0	ug/L	10	1	10.	3.6	5.0
1,1-Dichloroethane	U	5.0	ug/L	10	1	10.	2.1	5.0
cis-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.1	5.0
Chloroform	U	5.0	ug/L	10	1	10.	3.2	5.0
1,1,1-Trichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
2-Butanone	U	25	ug/L	10	5	50.	13.	25.
Cyclohexane	U	5.0	ug/L	10	1	10.	3.1	5.0
Carbon Tetrachloride	U	5.0	ug/L	10	1	10.	2.2	5.0
Benzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,2-Dichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
Trichloroethene		420	ug/L	10	1	10.	2.8	5.0
1,2-Dichloropropane	U	5.0	ug/L	10	1	10.	2.5	5.0
Bromodichloromethane	U	5.0	ug/L	10	1	10.	3.3	5.0
cis-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	1.9	5.0
Toluene	U	5.0	ug/L	10	1	10.	2.7	5.0
4-Methyl-2-Pentanone	U	25	ug/L	10	5	50.	13.	25.
trans-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	2.0	5.0
1,1,2-Trichloroethane	U	5.0	ug/L	10	1	10.	3.3	5.0
Tetrachloroethene	U	5.0	ug/L	10	1	10.	4.0	5.0
Dibromochloromethane	U	5.0	ug/L	10	1	10.	3.0	5.0
2-Hexanone	U	25	ug/L	10	5	50.	17.	25.
Chlorobenzene	U	5.0	ug/L	10	1	10.	2.2	5.0
Ethylbenzene	U	5.0	ug/L	10	1	10.	2.1	5.0

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-6DL
Client ID: RE103D3-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1654.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	15	ug/L	10	3	30.	2.5	15.
Styrene	U	5.0	ug/L	10	1	10.	2.3	5.0
Bromoform	U	5.0	ug/L	10	1	10.	2.3	5.0
Isopropylbenzene	U	5.0	ug/L	10	1	10.	2.3	5.0
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	10	1	10.	3.8	5.0
1,3-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,4-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.4	5.0
1,2-Dichlorobenzene	U	5.0	ug/L	10	1	10.	1.5	5.0
1,2,4-Trichlorobenzene	U	5.0	ug/L	10	1	10.	3.7	5.0
Methyl Acetate	U	7.5	ug/L	10	1	10.	5.3	7.5
Methylcyclohexane	U	5.0	ug/L	10	1	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	10	1	10.	2.5	5.0
M+P-Xylenes	U	10	ug/L	10	2	20.	5.9	10.
1,2-Dichloroethylene (Total)	U	10	ug/L	10	2	20.	2.1	10.
1,2-Dibromoethane	U	5.0	ug/L	10	1	10.	2.2	5.0
1,2-Dibromo-3-Chloropropane	U	7.5	ug/L	10	1	10.	5.0	7.5
P-Bromofluorobenzene		87.4	%					
Toluene-d8		89.1	%					
1,2-Dichloroethane-d4		95.3	%					
Dibromofluoromethane		87.5	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1654.D
Report Date: 06-Jul-2015 14:54

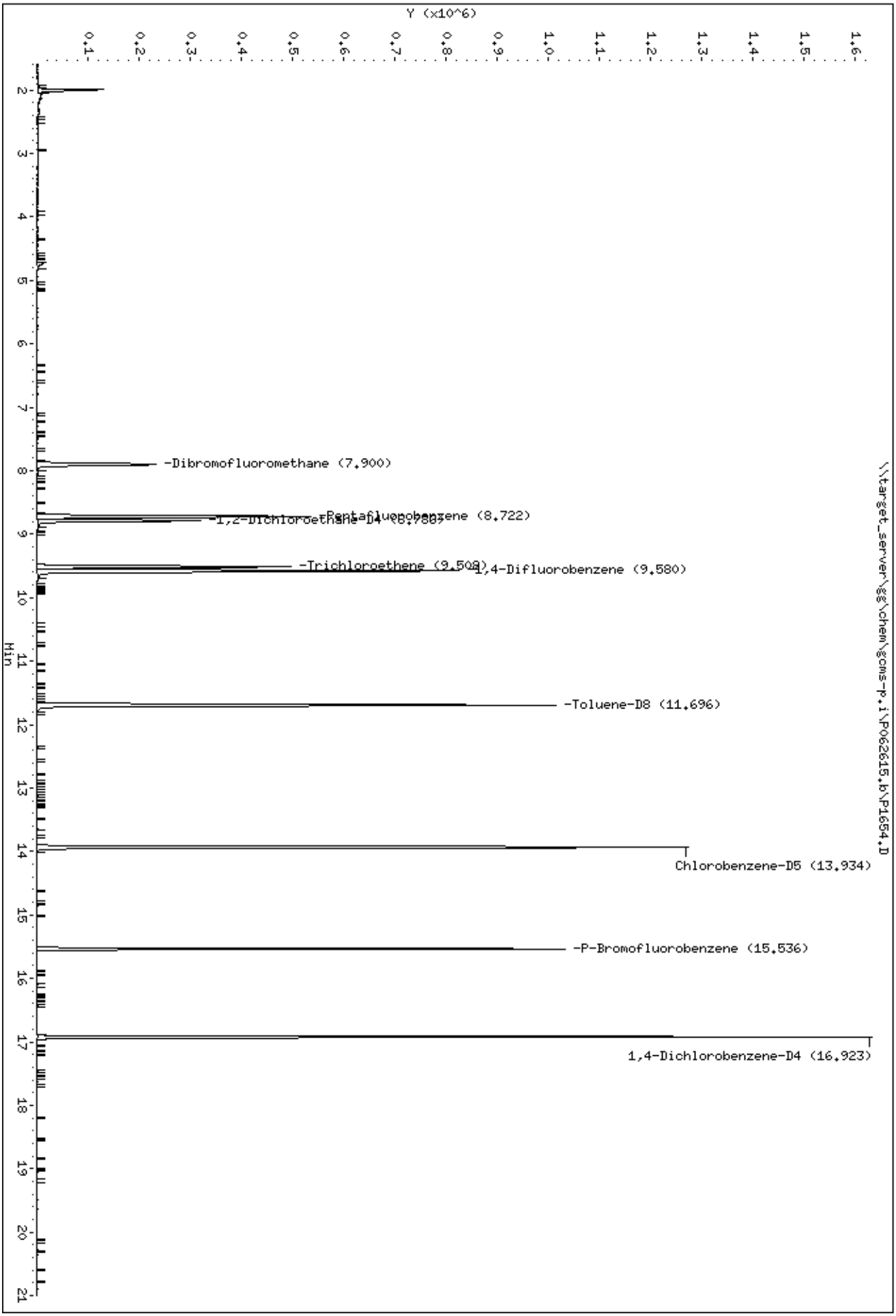
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1654.D
Lab Smp Id: SI4462-6DL Client Smp ID: RE103D3-GW-062215
Inj Date : 26-JUN-2015 17:47 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-6DL
Misc Info : WG165523,WG165276-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 19
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.899	7.900	(0.906)	167411	43.7437	43.7	
* 42 Pentafluorobenzene	168	8.721	8.715	(1.000)	353816	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.007)	256055	47.6416	47.6	
48 Trichloroethene	95	9.508	9.509	(0.993)	180526	42.0655	421	
* 49 1,4-Difluorobenzene	114	9.579	9.573	(1.000)	669721	50.0000		
$ 55 Toluene-D8	98	11.696	11.690	(1.221)	660375	44.5737	44.6	
* 66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	602050	50.0000		
$ 76 P-Bromofluorobenzene	95	15.535	15.537	(1.622)	294454	43.6927	43.7	
* 91 1,4-Dichlorobenzene-D4	152	16.930	16.924	(1.000)	344556	50.0000		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Date : 26-JUN-2015 17:47
Client ID: RE103D3-GW-062215
Sample Info: SI4462-6DL
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062615.b\P1654.D
Y (x10^6)
Min
-Dibromofluoromethane (7.900)
-Pentafluorobenzene (8.722)
-1,2-Dichloroethane-D4 (8.780)
-Trichloroethene (9.508)
1,4-Difluorobenzene (9.580)
-Toluene-D8 (11.696)
Chlorobenzene-D5 (13.934)
-P-Bromofluorobenzene (15.536)
1,4-Dichlorobenzene-D4 (16.923)

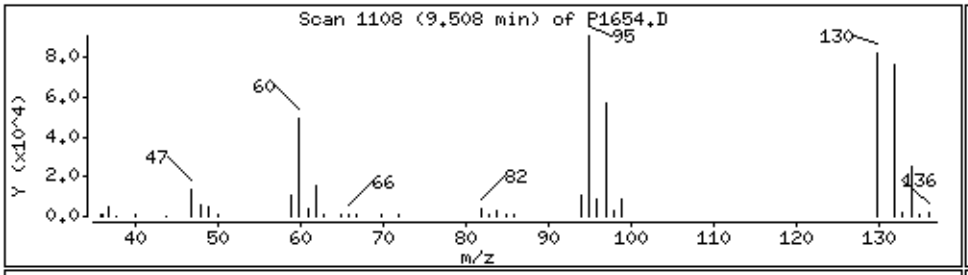
Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1654.D

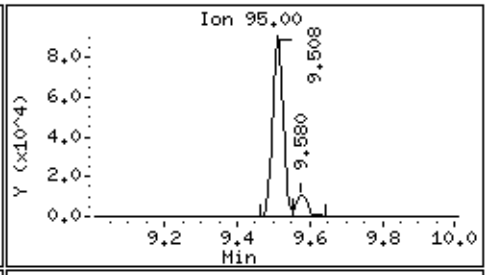
Date : 26-JUN-2015 17:47

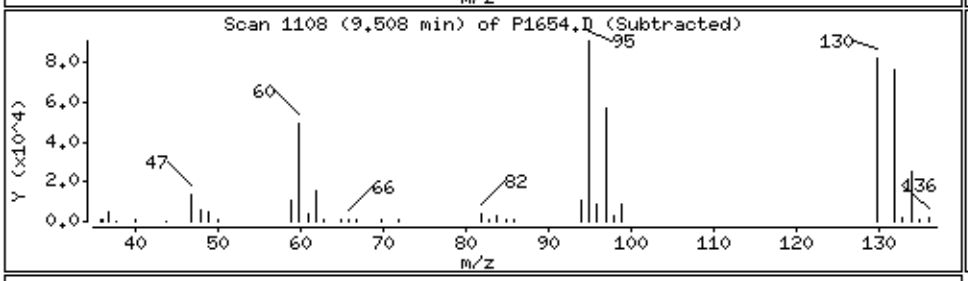
Client ID: RE103D3-GW-062215 Instrument: gcms-p.i

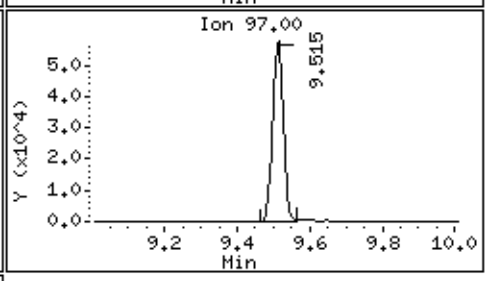
Sample Info: SI4462-6DL

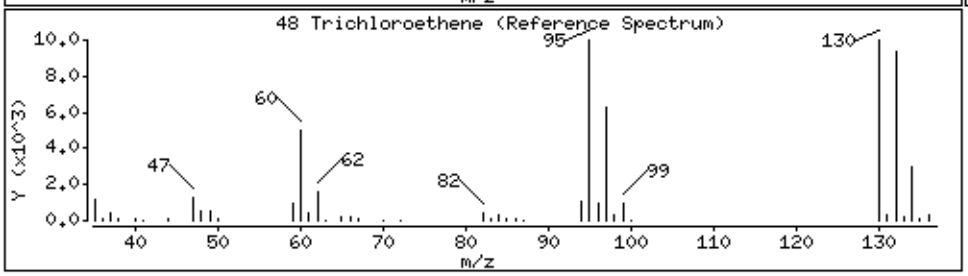
48 Trichloroethene Concentration: 421 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-7
Client ID: DUPLICATE-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1629.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene		4.6	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113		22	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	J	0.85	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		2.2	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.82	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	J	0.44	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride		1.3	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	E	620	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	J	0.60	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	J	0.86	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-7
Client ID: DUPLICATE-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1629.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)		2.2	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		88.7	%					
Toluene-d8		91.4	%					
1,2-Dichloroethane-d4		96.0	%					
Dibromofluoromethane		90.7	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Report Date: 26-Jun-2015 06:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Lab Smp Id: SI4462-7 Client Smp ID: DUPLICATE-GW-062215
Inj Date : 25-JUN-2015 19:44 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-7
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	9 1,1-Dichloroethene	96	3.891	3.889	(0.446)	17398	4.63378	4.6	
	11 Freon-113	151	3.934	3.939	(0.451)	52476	21.9182	21.9	
	25 1,1-Dichloroethane	63	6.086	6.084	(0.698)	6609	0.85057	0.85(a)	
	29 cis-1,2-Dichloroethene	96	7.087	7.085	(0.813)	10917	2.23063	2.2	
M	30 1,2-Dichloroethylene (total)	96				10917	2.23063	2.2	
	34 Chloroform	83	7.580	7.578	(0.870)	6552	0.82525	0.82(a)	
	35 Carbon Tetrachloride	117	7.795	7.800	(0.814)	6153	1.26727	1.3	
$	37 Dibromofluoromethane	113	7.895	7.900	(0.906)	179347	45.3496	45.3	
	38 1,1,1-Trichloroethane	97	7.924	7.922	(0.909)	2930	0.44489	0.44(a)	
*	42 Pentafluorobenzene	168	8.717	8.715	(1.000)	365620	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.789	8.787	(1.008)	266721	48.0240	48.0	
	48 Trichloroethene	95	9.511	9.509	(0.993)	2733245	618.508	618(A)	
*	49 1,4-Difluorobenzene	114	9.575	9.573	(1.000)	689626	50.0000		
$	55 Toluene-D8	98	11.692	11.690	(1.221)	697096	45.6942	45.7	
	59 Tetrachloroethene	164	12.328	12.333	(0.885)	2657	0.85559	0.86(a)	
	61 1,1,2-Trichloroethane	83	12.635	12.634	(1.320)	2066	0.60041	0.60(a)	
*	66 Chlorobenzene-D5	117	13.930	13.935	(1.000)	625413	50.0000		
$	76 P-Bromofluorobenzene	95	15.531	15.537	(1.622)	307855	44.3627	44.4	
*	91 1,4-Dichlorobenzene-D4	152	16.926	16.924	(1.000)	351731	50.0000		

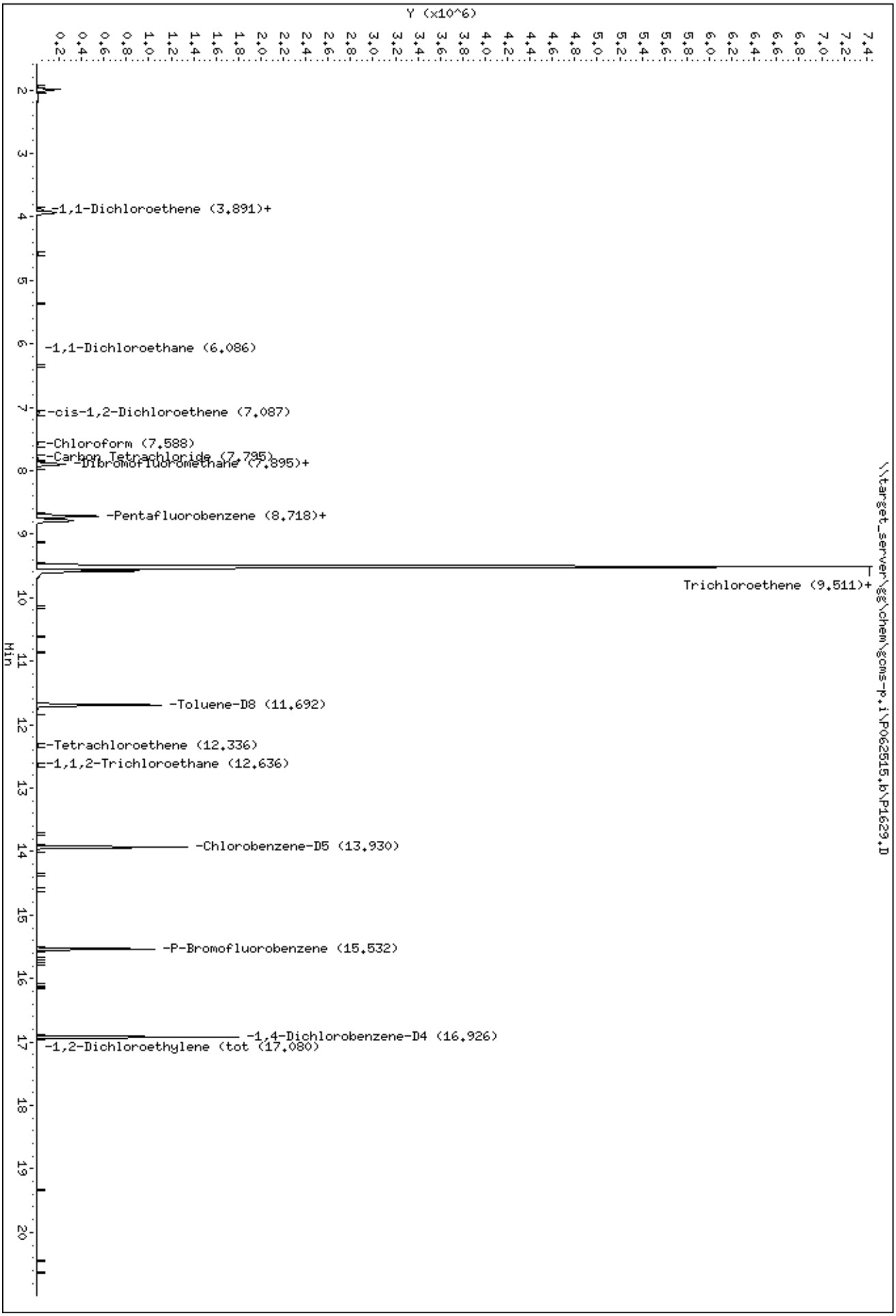
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Report Date: 26-Jun-2015 06:52

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.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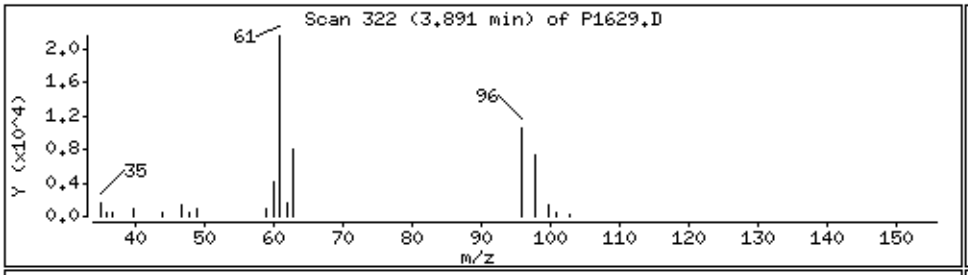
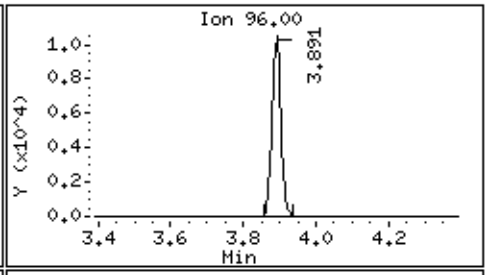
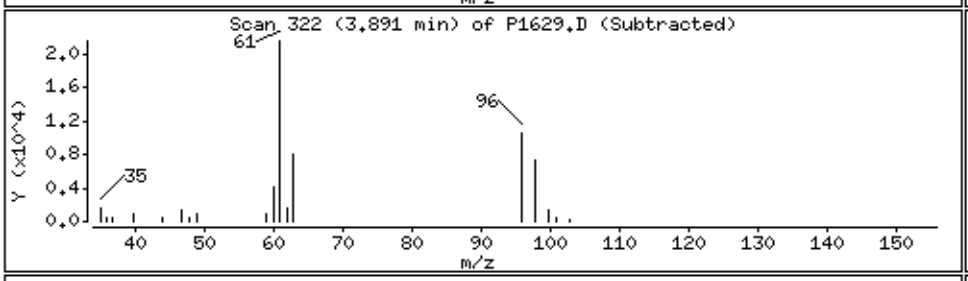
Date : 25-JUN-2015 19:44
Client ID: DUPLICATE-GW-062215
Sample Info: SI4462-7
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.891)+
-1,1-Dichloroethane (6.086)
-cis-1,2-Dichloroethene (7.087)
-Chloroform (7.588)
-Carbon Tetrachloride (7.795)
-Dibromofluoromethane (7.895)+
-Pentafluorobenzene (8.718)+
Trichloroethene (9.511)+
-Toluene-D8 (11.692)
-Tetrachloroethene (12.336)
-1,1,2-Trichloroethane (12.636)
-Chlorobenzene-D5 (13.930)
-P-Bromofluorobenzene (15.532)
-1,4-Dichlorobenzene-D4 (16.926)
-1,2-Dichloroethylene (tot (17.080)

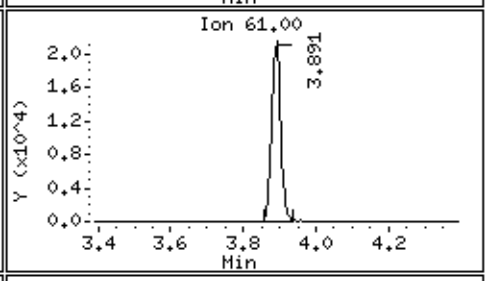
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Date : 25-JUN-2015 19:44
Client ID: DUPLICATE-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-7

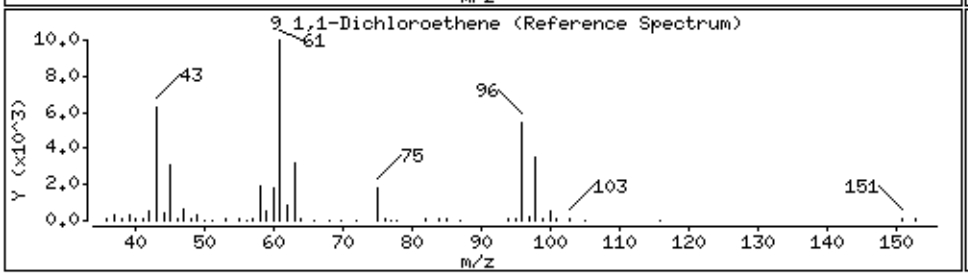
9 1,1-Dichloroethene Concentration: 4.6 ug/l

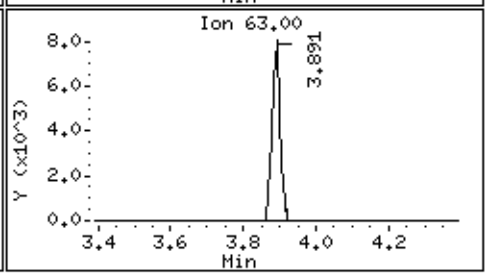




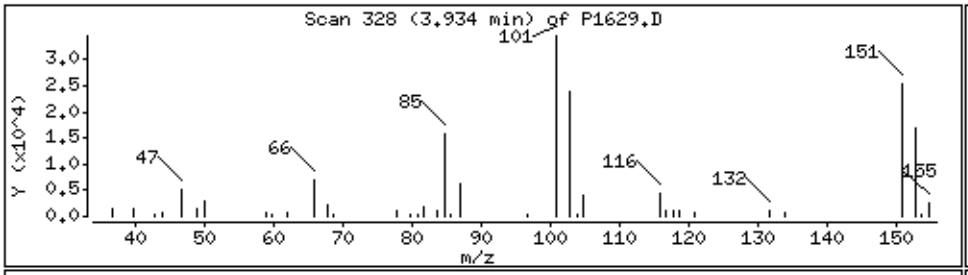


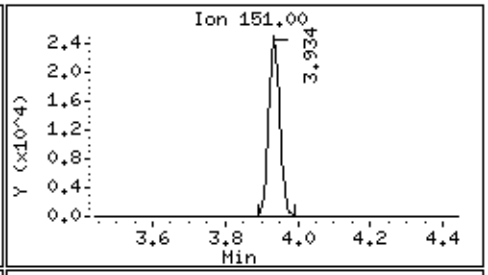


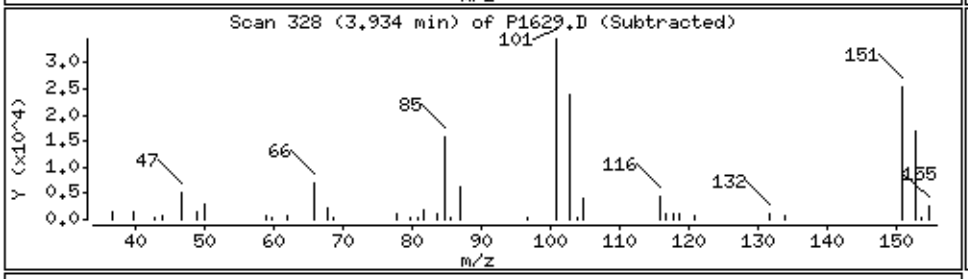


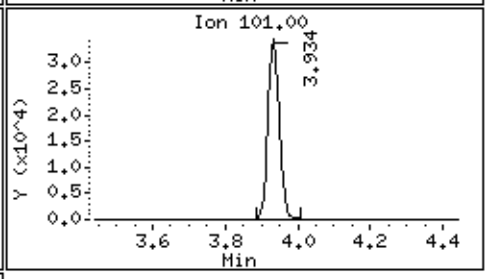


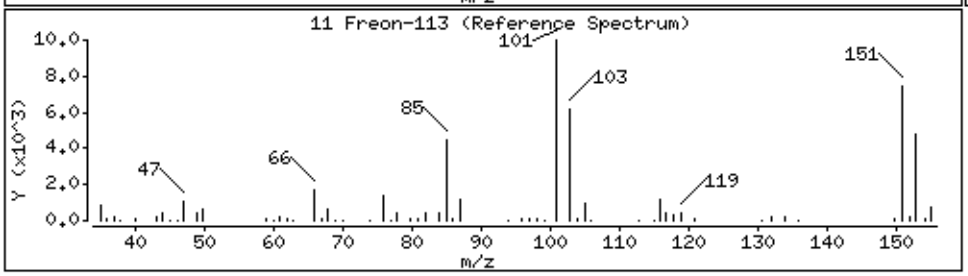
11 Freon-113 Concentration: 21.9 ug/l





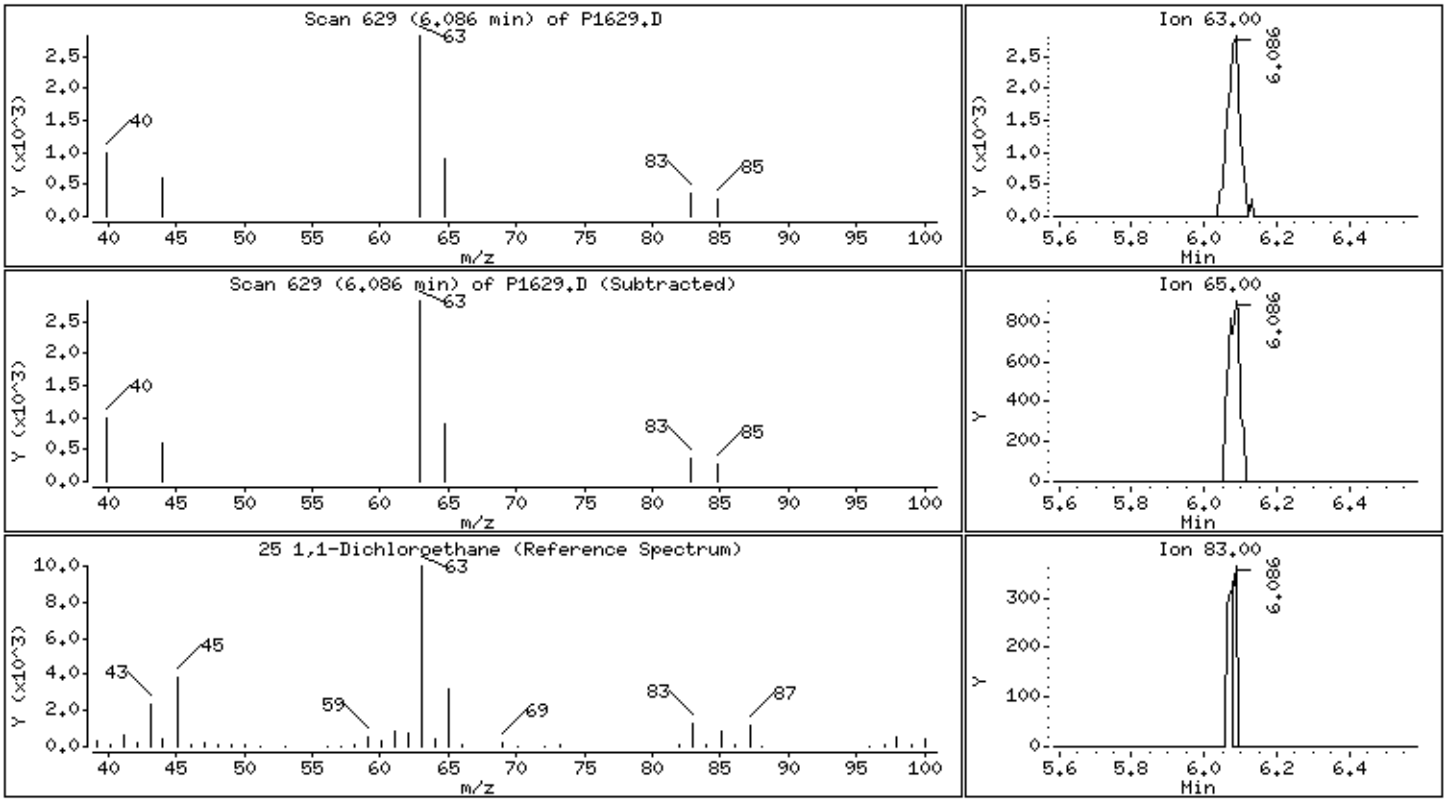




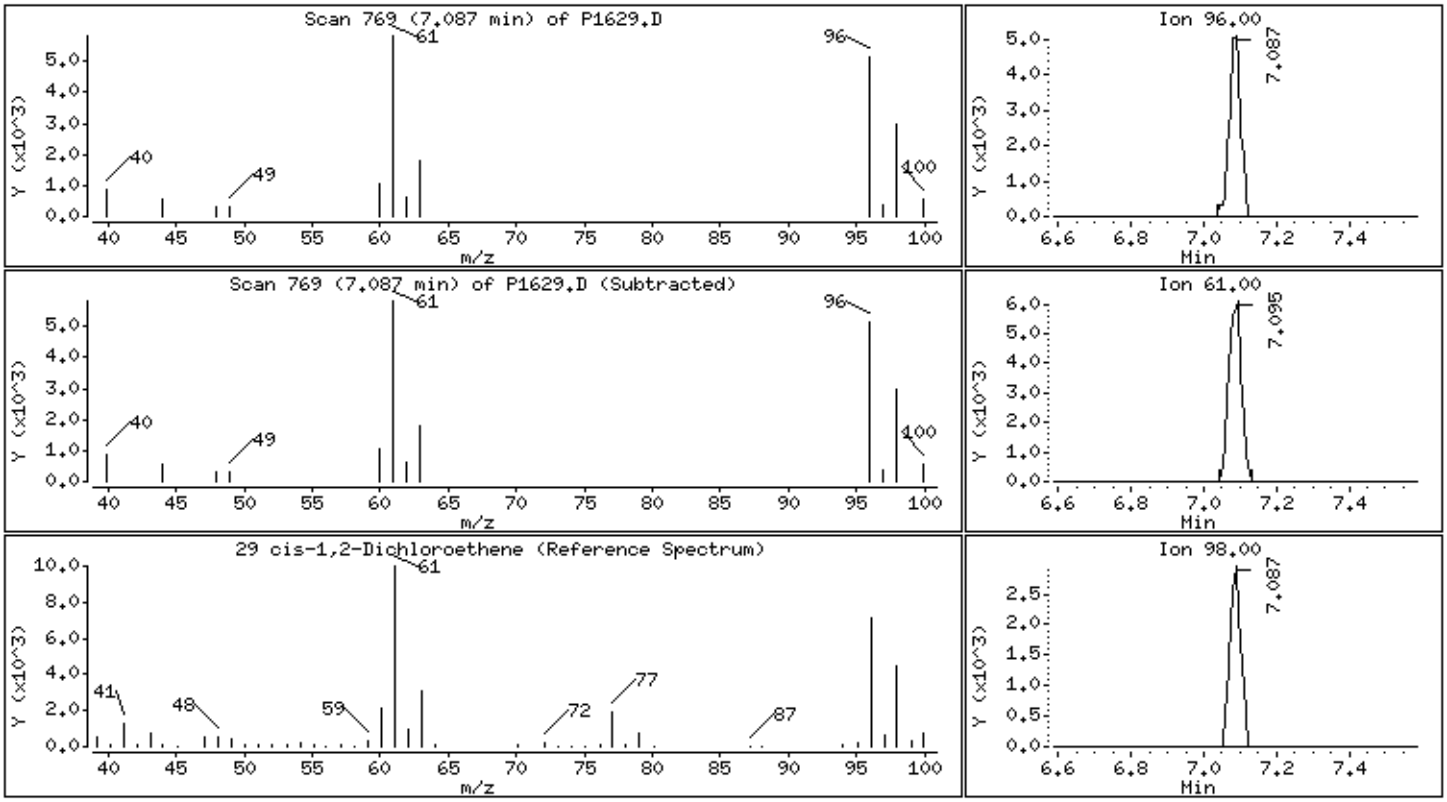


Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Date : 25-JUN-2015 19:44
Client ID: DUPLICATE-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-7

25 1,1-Dichloroethane Concentration: 0.85 ug/l

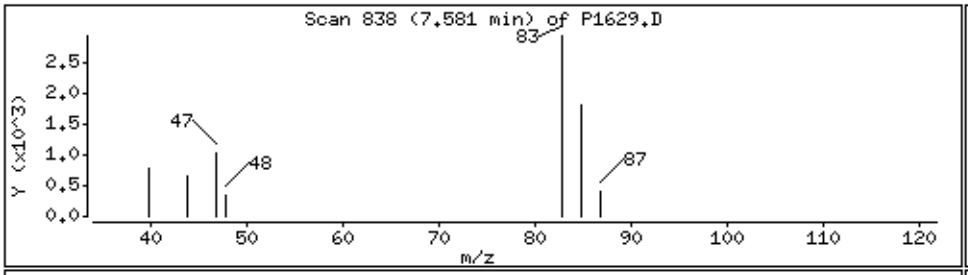


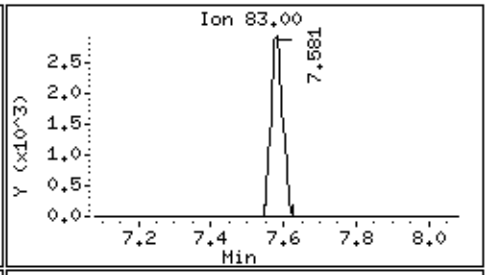
29 cis-1,2-Dichloroethene Concentration: 2.2 ug/l

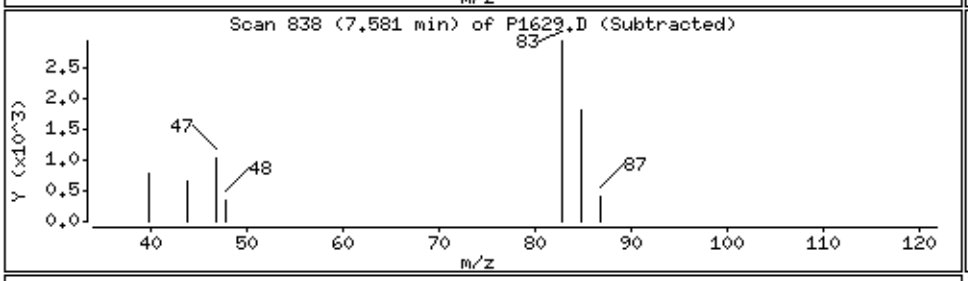


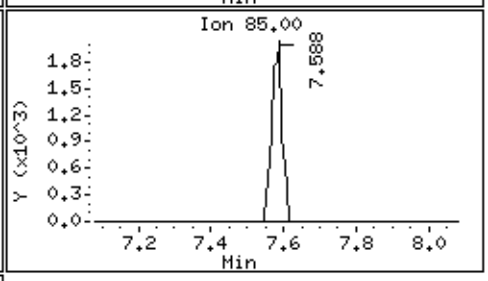
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Date : 25-JUN-2015 19:44
Client ID: DUPLICATE-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-7

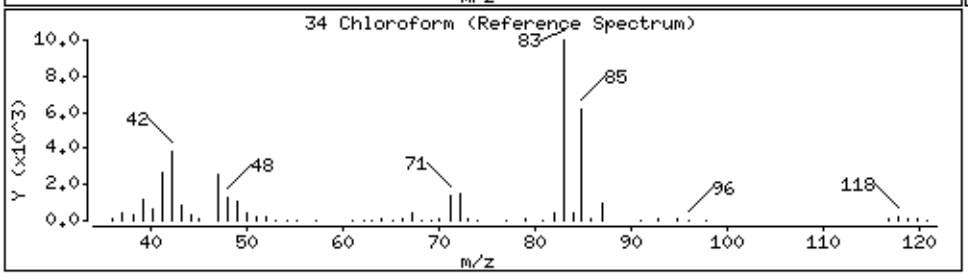
34 Chloroform Concentration: 0.82 ug/l



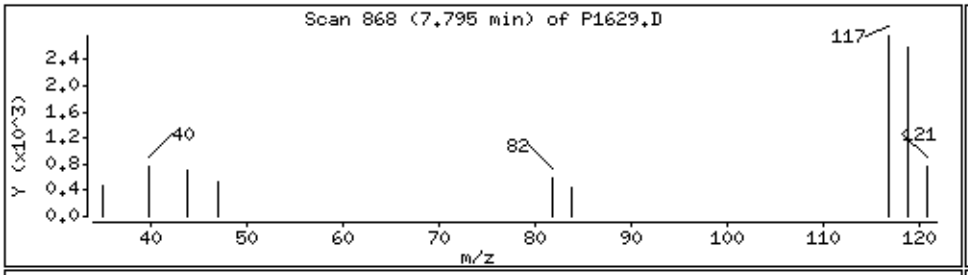


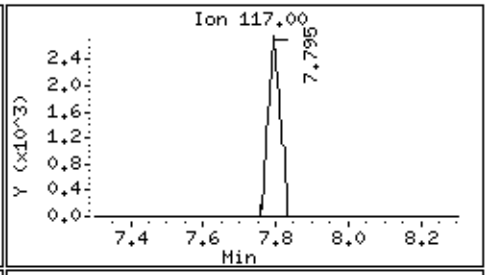


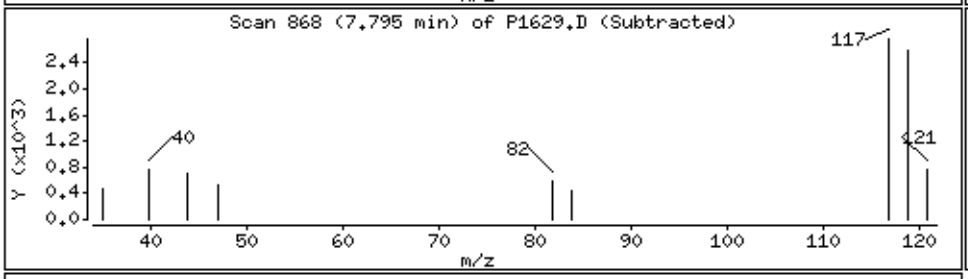


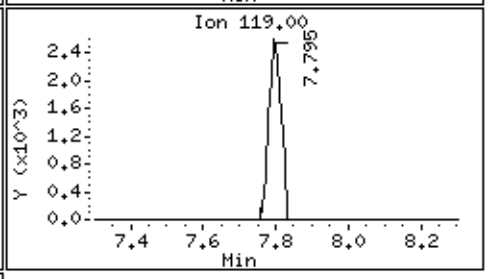


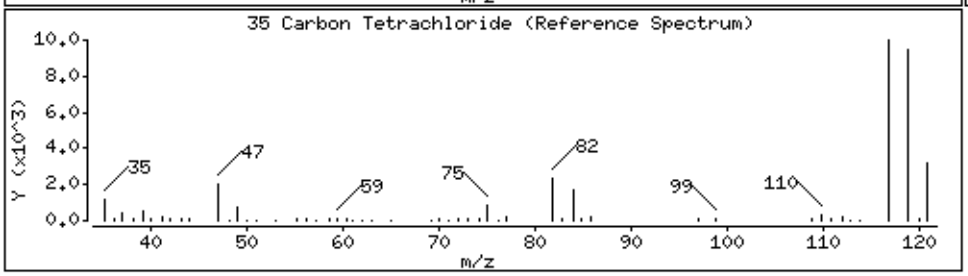
35 Carbon Tetrachloride Concentration: 1.3 ug/l





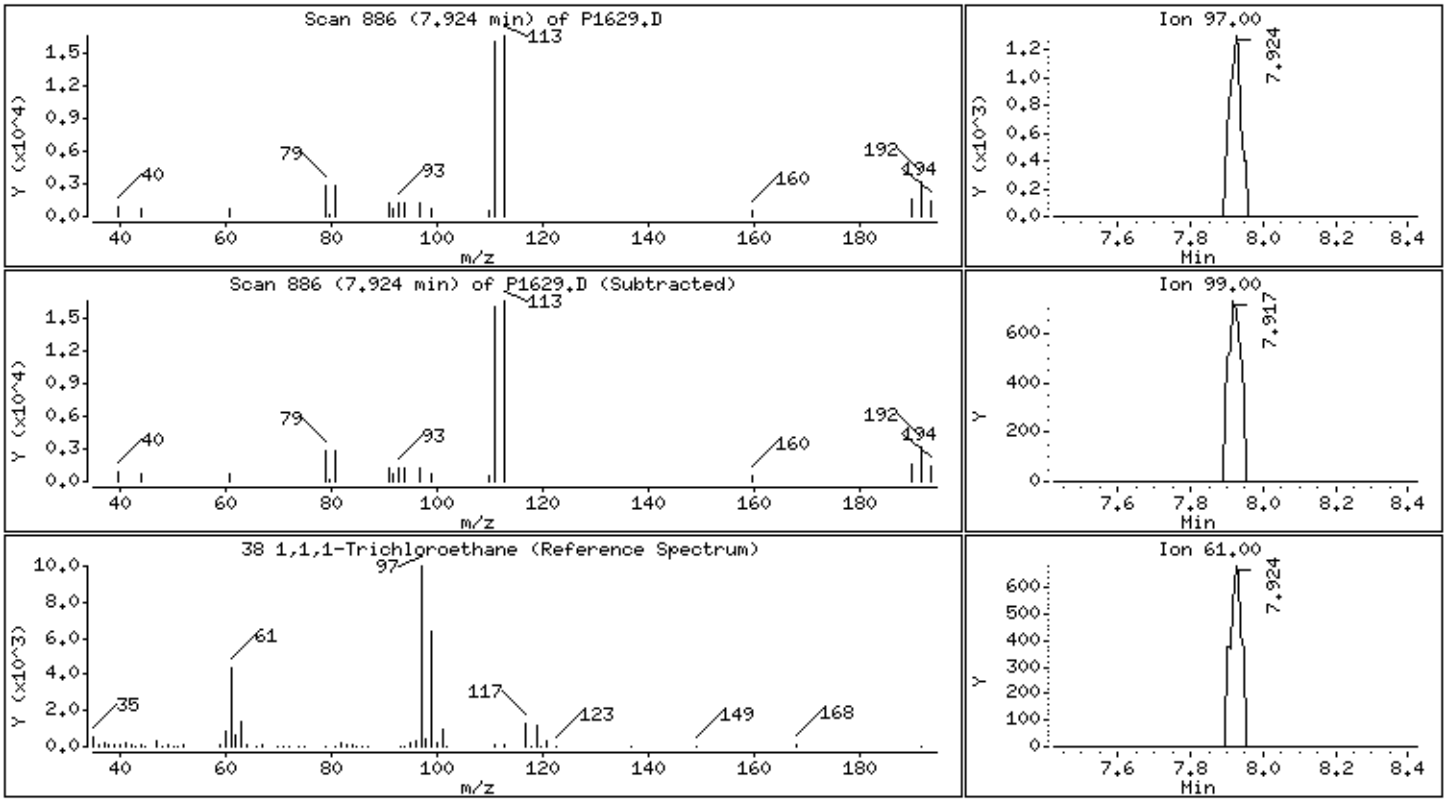




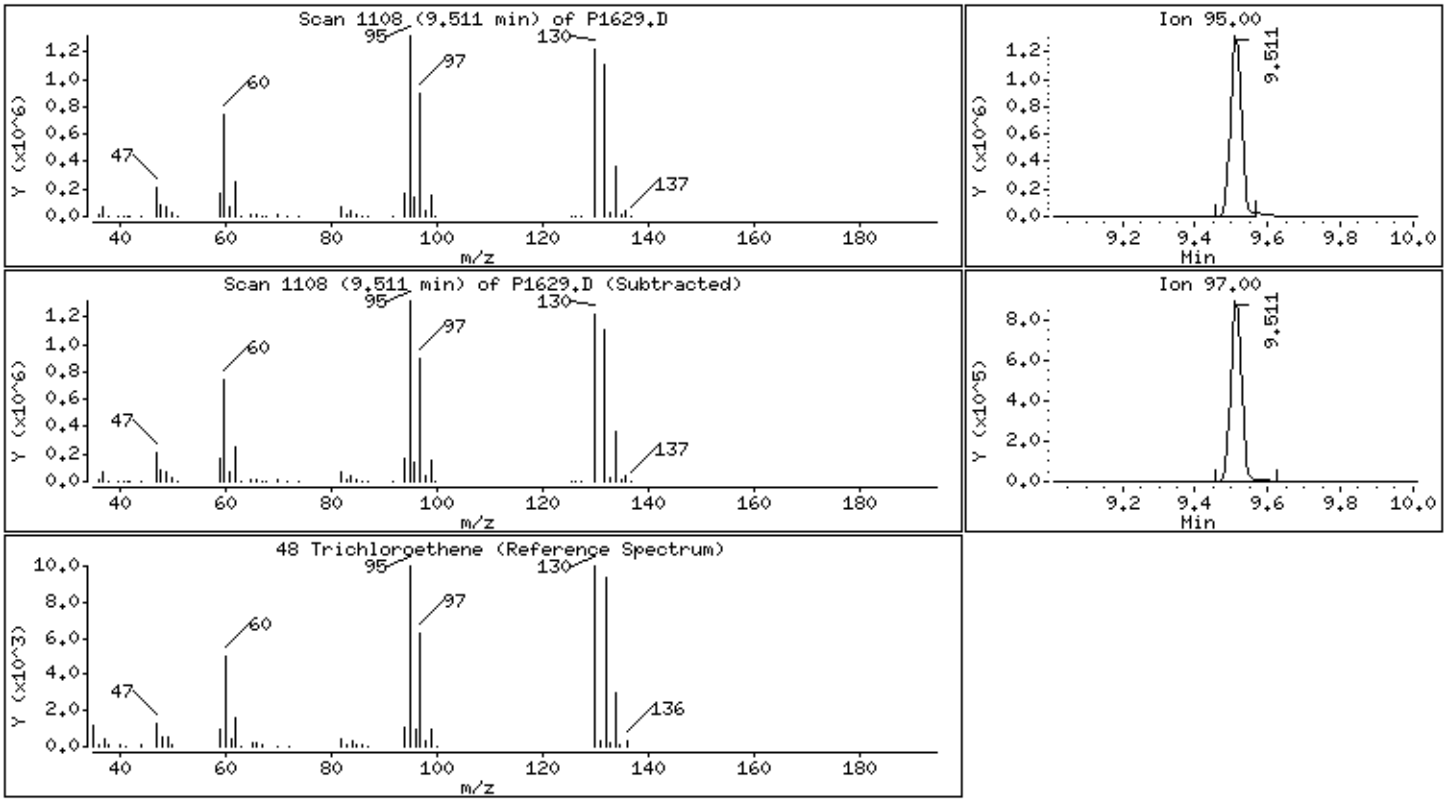


Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Date : 25-JUN-2015 19:44
Client ID: DUPLICATE-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-7

38 1,1,1-Trichloroethane Concentration: 0.44 ug/l

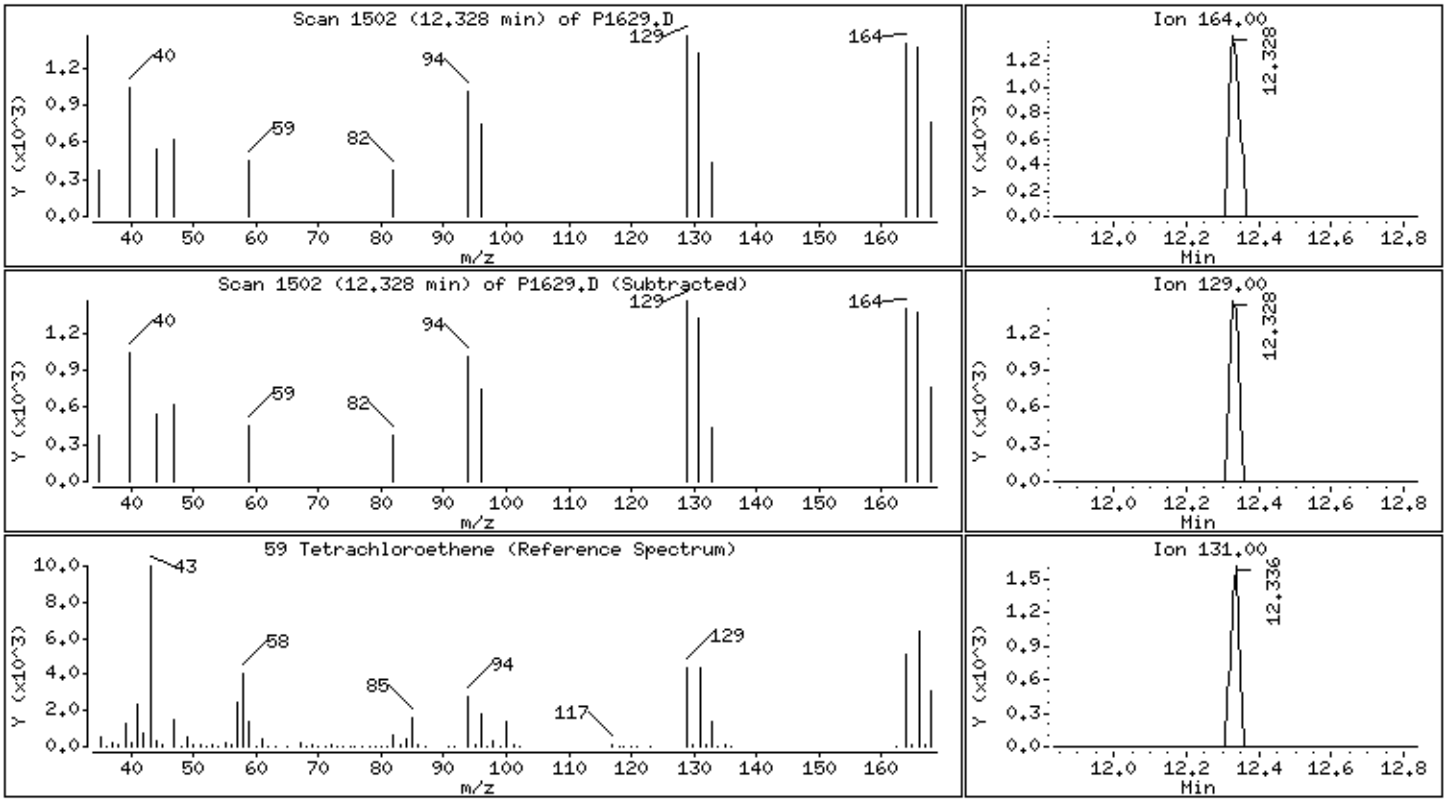


48 Trichloroethene Concentration: 618 ug/l

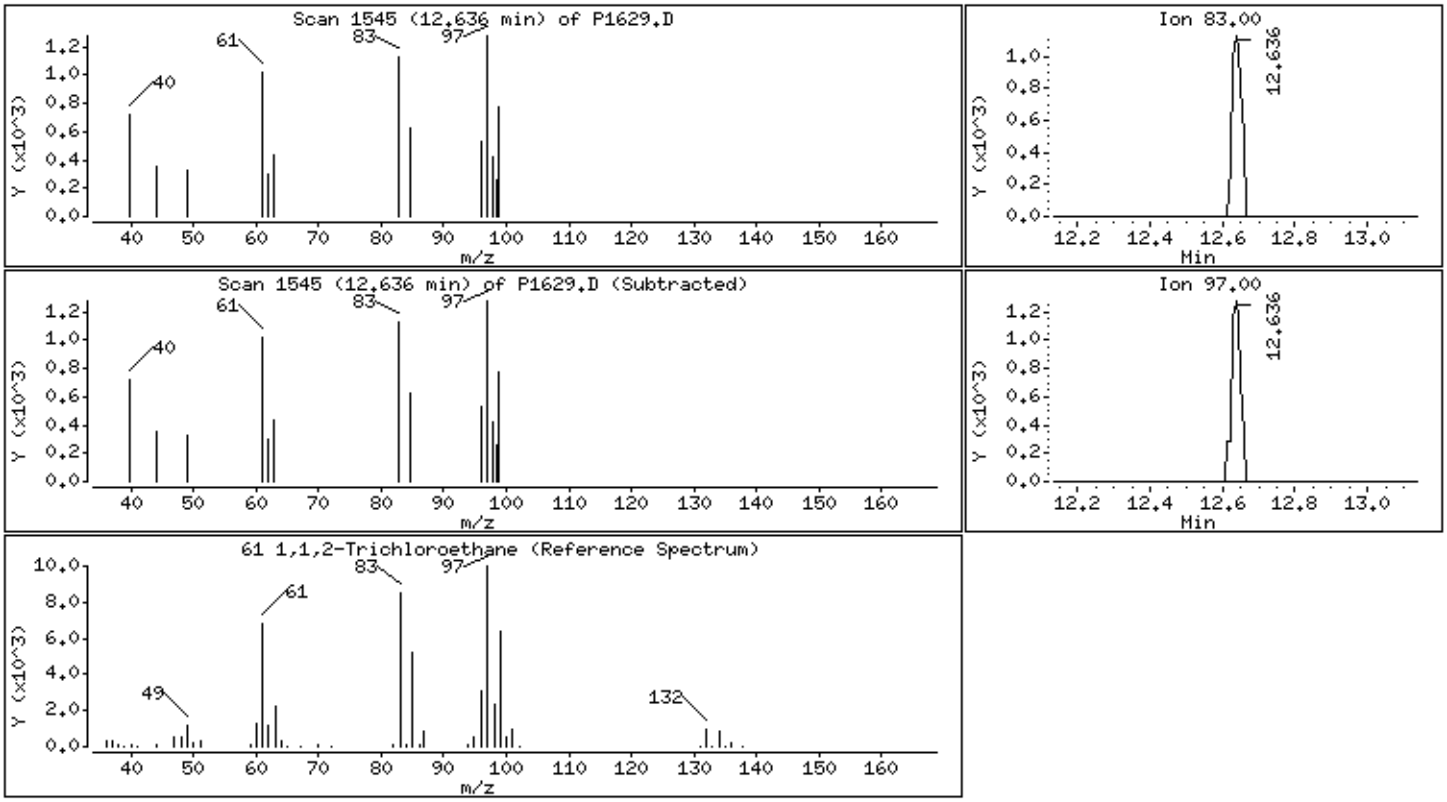


Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1629.D
Date : 25-JUN-2015 19:44
Client ID: DUPLICATE-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-7

59 Tetrachloroethene Concentration: 0.86 ug/l



61 1,1,2-Trichloroethane Concentration: 0.60 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-7DL
Client ID: DUPLICATE-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1655.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	10	ug/L	10	2	20.	2.4	10.
Chloromethane	U	10	ug/L	10	2	20.	3.6	10.
Vinyl Chloride	U	10	ug/L	10	2	20.	2.5	10.
Bromomethane	U	10	ug/L	10	2	20.	4.9	10.
Chloroethane	U	10	ug/L	10	2	20.	5.5	10.
Trichlorofluoromethane	U	10	ug/L	10	2	20.	2.4	10.
1,1-Dichloroethene	J	4.3	ug/L	10	1	10.	3.5	5.0
Carbon Disulfide	U	5.0	ug/L	10	1	10.	2.5	5.0
Freon-113		19	ug/L	10	1	10.	3.1	5.0
Methylene Chloride	U	25	ug/L	10	5	50.	11.	25.
Acetone	U	25	ug/L	10	5	50.	22.	25.
trans-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.5	5.0
Methyl tert-butyl Ether	U	5.0	ug/L	10	1	10.	3.6	5.0
1,1-Dichloroethane	U	5.0	ug/L	10	1	10.	2.1	5.0
cis-1,2-Dichloroethene	U	5.0	ug/L	10	1	10.	2.1	5.0
Chloroform	U	5.0	ug/L	10	1	10.	3.2	5.0
1,1,1-Trichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
2-Butanone	U	25	ug/L	10	5	50.	13.	25.
Cyclohexane	U	5.0	ug/L	10	1	10.	3.1	5.0
Carbon Tetrachloride	U	5.0	ug/L	10	1	10.	2.2	5.0
Benzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,2-Dichloroethane	U	5.0	ug/L	10	1	10.	2.0	5.0
Trichloroethene		620	ug/L	10	1	10.	2.8	5.0
1,2-Dichloropropane	U	5.0	ug/L	10	1	10.	2.5	5.0
Bromodichloromethane	U	5.0	ug/L	10	1	10.	3.3	5.0
cis-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	1.9	5.0
Toluene	U	5.0	ug/L	10	1	10.	2.7	5.0
4-Methyl-2-Pentanone	U	25	ug/L	10	5	50.	13.	25.
trans-1,3-Dichloropropene	U	5.0	ug/L	10	1	10.	2.0	5.0
1,1,2-Trichloroethane	U	5.0	ug/L	10	1	10.	3.3	5.0
Tetrachloroethene	U	5.0	ug/L	10	1	10.	4.0	5.0
Dibromochloromethane	U	5.0	ug/L	10	1	10.	3.0	5.0
2-Hexanone	U	25	ug/L	10	5	50.	17.	25.
Chlorobenzene	U	5.0	ug/L	10	1	10.	2.2	5.0
Ethylbenzene	U	5.0	ug/L	10	1	10.	2.1	5.0

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-7DL
Client ID: DUPLICATE-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1655.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	15	ug/L	10	3	30.	2.5	15.
Styrene	U	5.0	ug/L	10	1	10.	2.3	5.0
Bromoform	U	5.0	ug/L	10	1	10.	2.3	5.0
Isopropylbenzene	U	5.0	ug/L	10	1	10.	2.3	5.0
1,1,2,2-Tetrachloroethane	U	5.0	ug/L	10	1	10.	3.8	5.0
1,3-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.6	5.0
1,4-Dichlorobenzene	U	5.0	ug/L	10	1	10.	2.4	5.0
1,2-Dichlorobenzene	U	5.0	ug/L	10	1	10.	1.5	5.0
1,2,4-Trichlorobenzene	U	5.0	ug/L	10	1	10.	3.7	5.0
Methyl Acetate	U	7.5	ug/L	10	1	10.	5.3	7.5
Methylcyclohexane	U	5.0	ug/L	10	1	10.	3.0	5.0
o-Xylene	U	5.0	ug/L	10	1	10.	2.5	5.0
M+P-Xylenes	U	10	ug/L	10	2	20.	5.9	10.
1,2-Dichloroethylene (Total)	U	10	ug/L	10	2	20.	2.1	10.
1,2-Dibromoethane	U	5.0	ug/L	10	1	10.	2.2	5.0
1,2-Dibromo-3-Chloropropane	U	7.5	ug/L	10	1	10.	5.0	7.5
P-Bromofluorobenzene		91.8	%					
Toluene-d8		92.9	%					
1,2-Dichloroethane-d4		94.9	%					
Dibromofluoromethane		89.2	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1655.D
Report Date: 06-Jul-2015 14:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1655.D
Lab Smp Id: SI4462-7DL Client Smp ID: DUPLICATE-GW-062215
Inj Date : 26-JUN-2015 18:15 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-7DL
Misc Info : WG165523,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 20
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

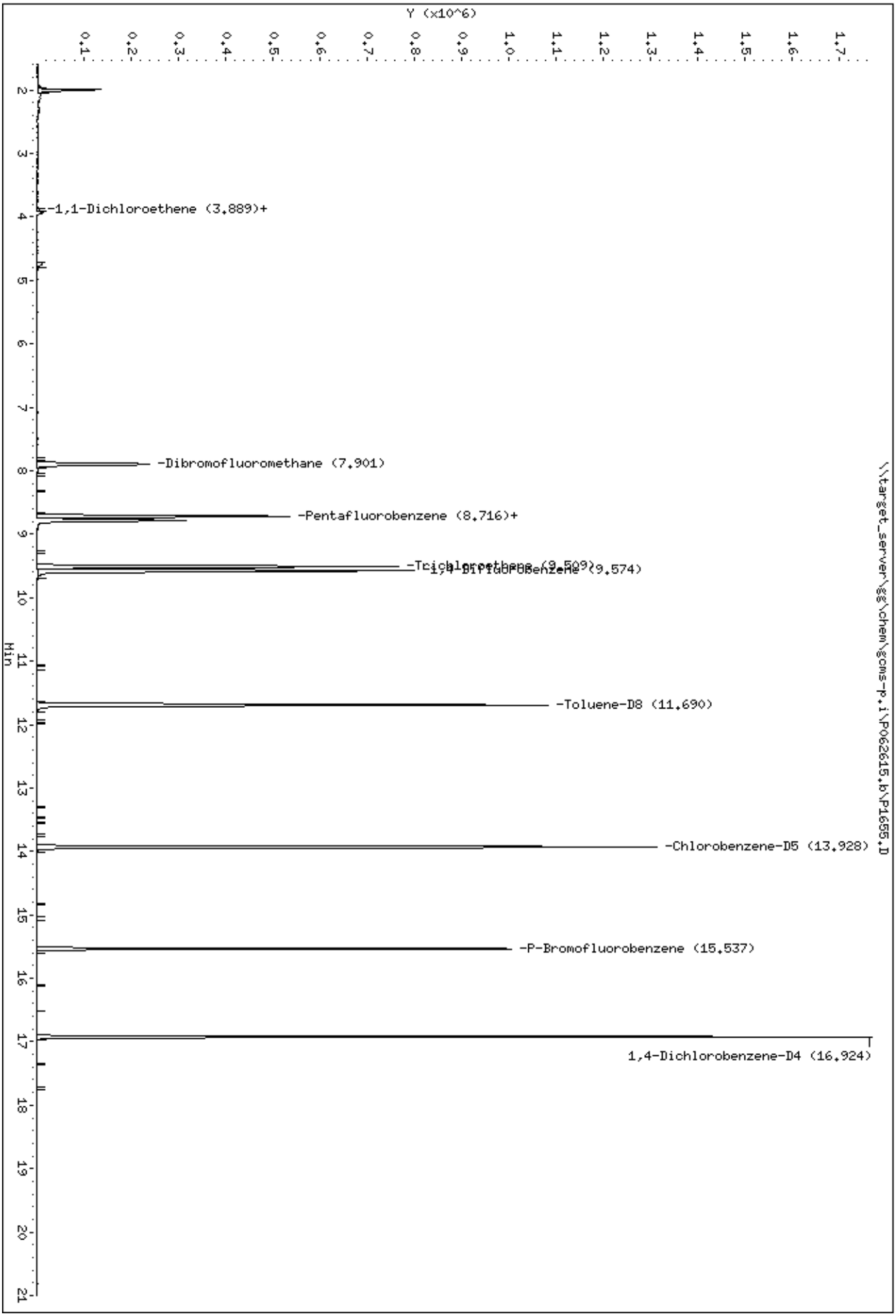
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	1573	0.43258	4.3(a)	
11 Freon-113	151	3.939	3.939	(0.452)	4310	1.85875	18.6	
$ 37 Dibromofluoromethane	113	7.893	7.900	(0.906)	170772	44.5855	44.6	
* 42 Pentafluorobenzene	168	8.715	8.715	(1.000)	354105	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.008)	255210	47.4457	47.4	
48 Trichloroethene	95	9.509	9.509	(0.993)	264707	62.0313	620	
* 49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	665940	50.0000		
$ 55 Toluene-D8	98	11.690	11.690	(1.220)	684179	46.4426	46.4	
* 66 Chlorobenzene-D5	117	13.928	13.935	(1.000)	610824	50.0000		
$ 76 P-Bromofluorobenzene	95	15.529	15.537	(1.621)	307431	45.8773	45.9	
* 91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	343810	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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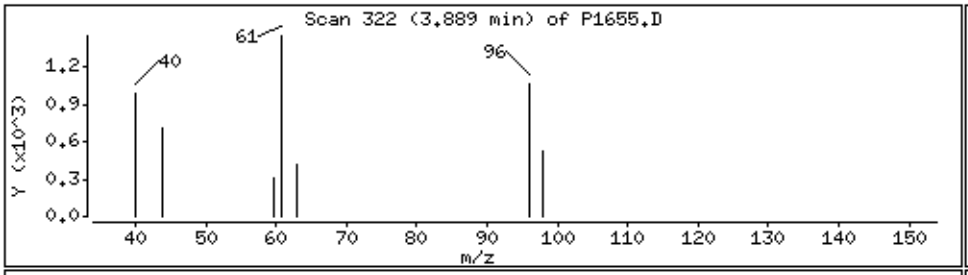
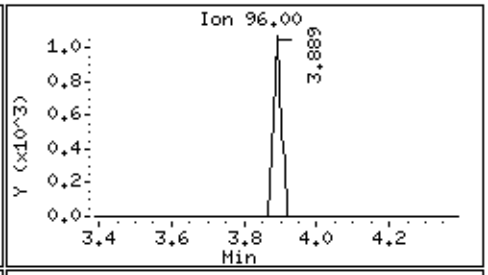
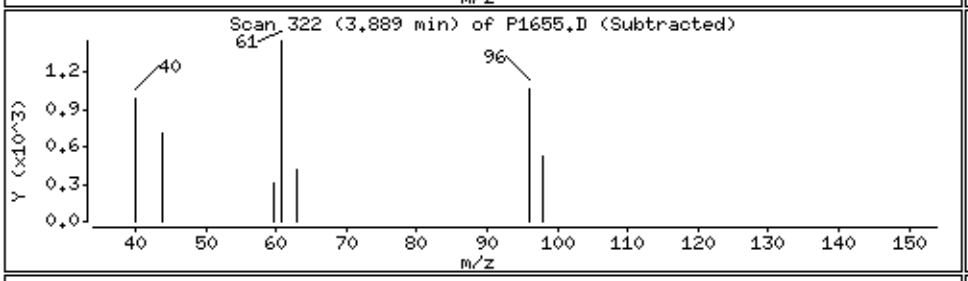
Date : 26-JUN-2015 18:15
Client ID: DUPLICATE-GW-062215
Sample Info: SI4462-7DL
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062615.b\P1655.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.889)+
-Dibromofluoromethane (7.901)
-Pentafluorobenzene (8.716)+
-Trichloroethene (9.509)
1,4-Difluorobenzene (9.574)
-Toluene-D8 (11.690)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
1,4-Dichlorobenzene-D4 (16.924)

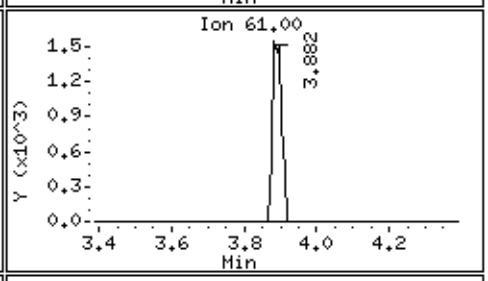
Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1655.D
Date : 26-JUN-2015 18:15
Client ID: DUPLICATE-GW-062215 Instrument: gcms-p.i
Sample Info: SI4462-7DL

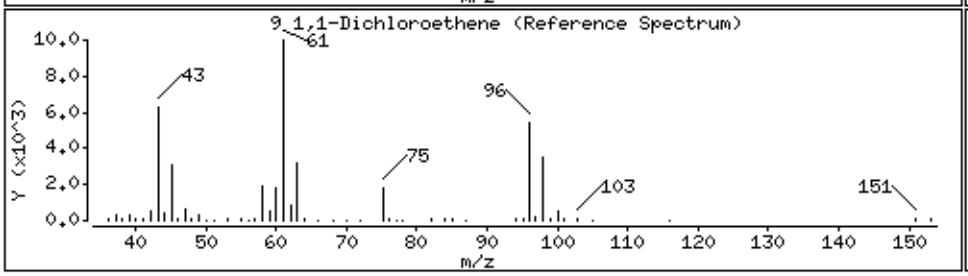
9 1,1-Dichloroethene Concentration: 4.3 ug/l

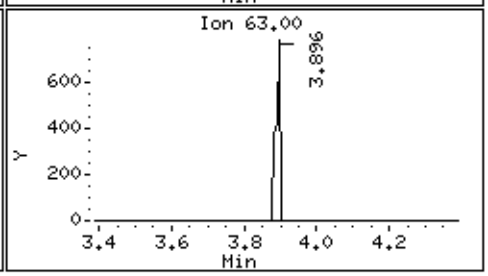




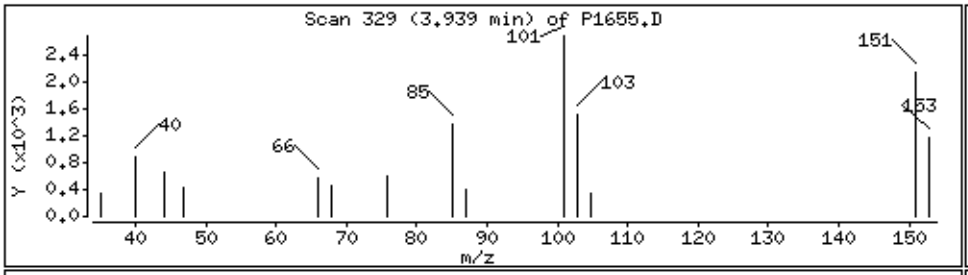


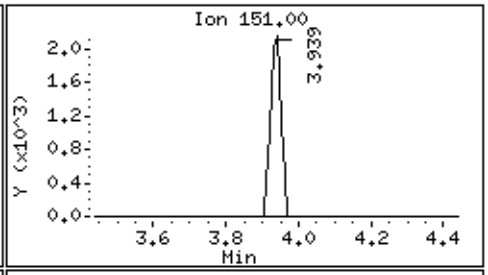


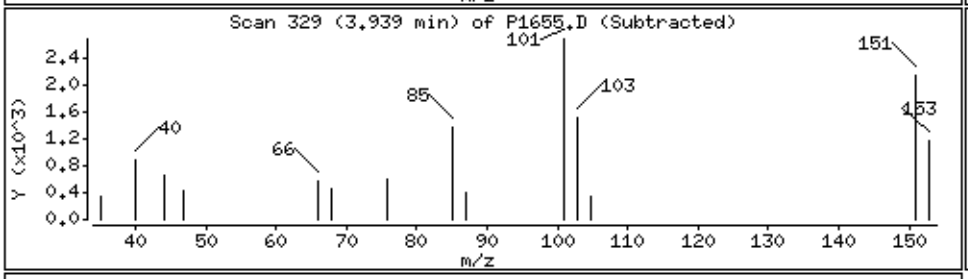


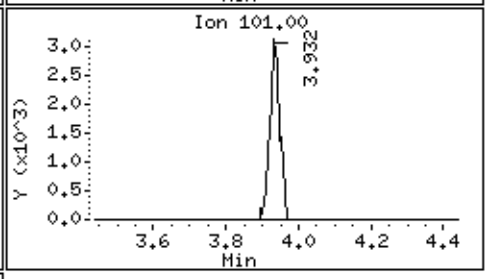


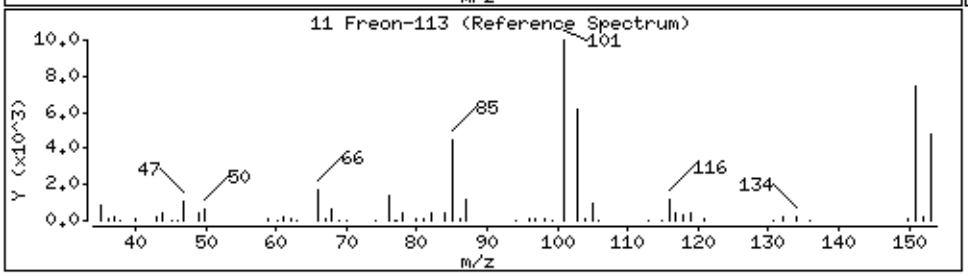
11 Freon-113 Concentration: 18.6 ug/l











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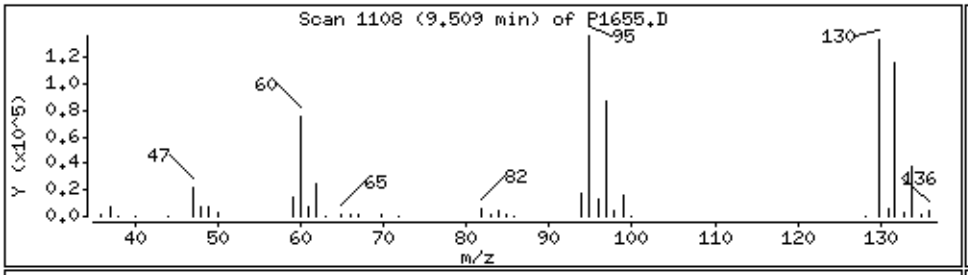
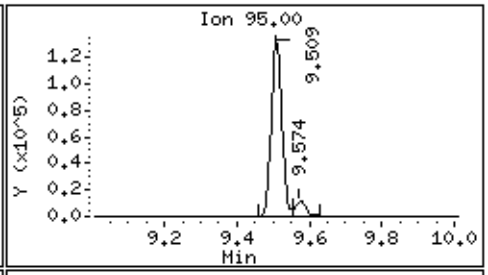
Date : 26-JUN-2015 18:15

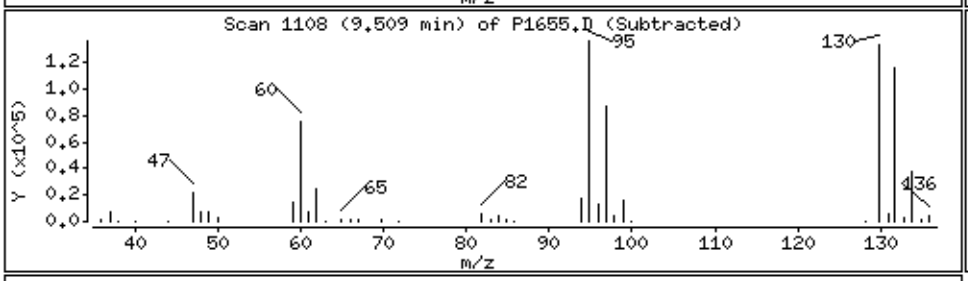
Client ID: DUPLICATE-GW-062215 Instrument: gcms-p.i

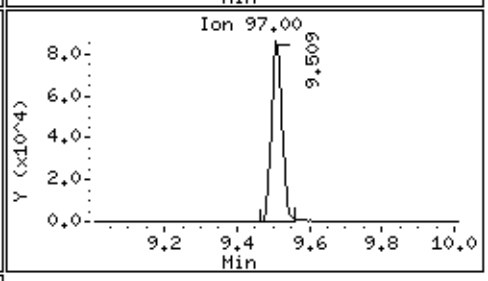
Sample Info: SI4462-7DL

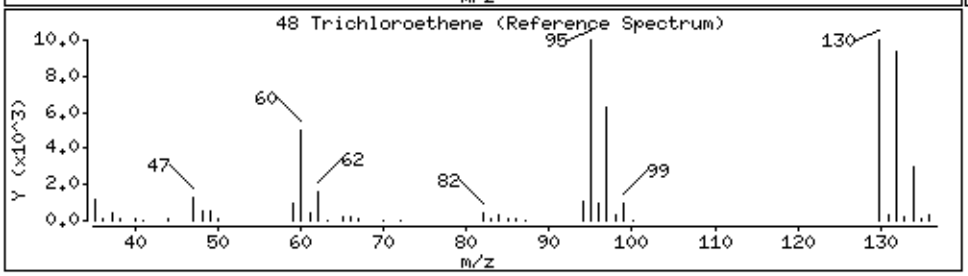
48 Trichloroethene Concentration: 620 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-11
Client ID: RE105D1-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1630.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	J	0.63	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene		1.1	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113		8.4	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	J	3.2	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		1.7	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	J	0.35	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		120	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-11
Client ID: RE105D1-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1630.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	J	1.7	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		91.1	%					
Toluene-d8		93.2	%					
1,2-Dichloroethane-d4		100.	%					
Dibromofluoromethane		91.6	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1630.D
Report Date: 26-Jun-2015 06:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1630.D
Lab Smp Id: SI4462-11 Client Smp ID: RE105D1-GW-062315
Inj Date : 25-JUN-2015 20:12 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-11
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

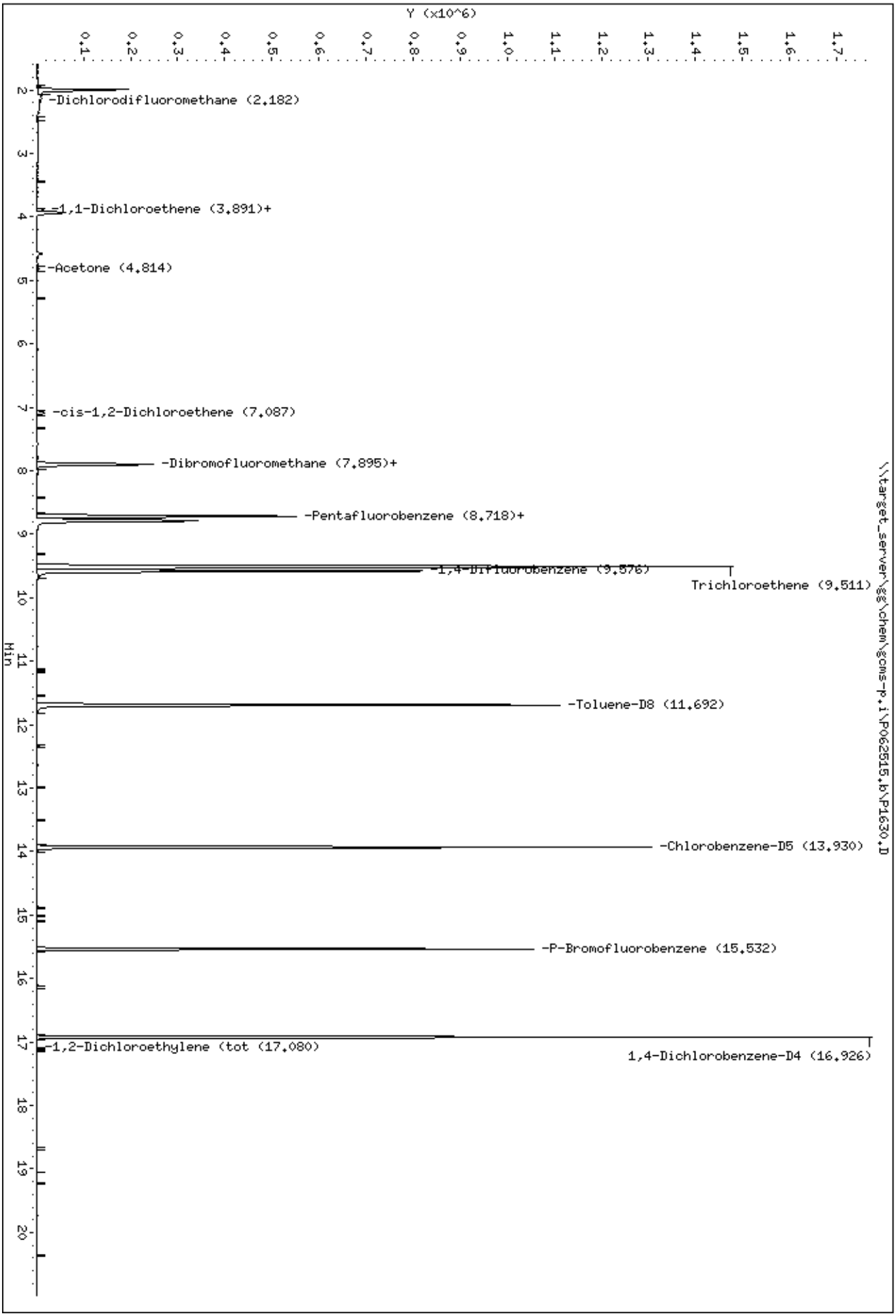
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	1 Dichlorodifluoromethane	85	2.182	2.187	(0.250)	3067	0.62802	0.63(a)	
	9 1,1-Dichloroethene	96	3.891	3.889	(0.446)	3957	1.07744	1.1	
	11 Freon-113	151	3.934	3.939	(0.451)	19656	8.39327	8.4	
	15 Acetone	43	4.813	4.804	(0.552)	5172	3.16288	3.2(a)	
	29 cis-1,2-Dichloroethene	96	7.094	7.085	(0.814)	8270	1.72751	1.7	
M	30 1,2-Dichloroethylene (total)	96				8270	1.72751	1.7(a)	
$	37 Dibromofluoromethane	113	7.902	7.900	(0.906)	177080	45.7762	45.8	
	38 1,1,1-Trichloroethane	97	7.916	7.922	(0.908)	2267	0.35191	0.35(a)	
*	42 Pentafluorobenzene	168	8.717	8.715	(1.000)	357634	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.789	8.787	(1.008)	272337	50.1301	50.1	
	48 Trichloroethene	95	9.511	9.509	(0.993)	514446	117.597	118	
*	49 1,4-Difluorobenzene	114	9.575	9.573	(1.000)	682690	50.0000		
$	55 Toluene-D8	98	11.692	11.690	(1.221)	703617	46.5902	46.6	
*	66 Chlorobenzene-D5	117	13.930	13.935	(1.000)	610646	50.0000		
$	76 P-Bromofluorobenzene	95	15.531	15.537	(1.622)	313002	45.5626	45.6	
*	91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	343729	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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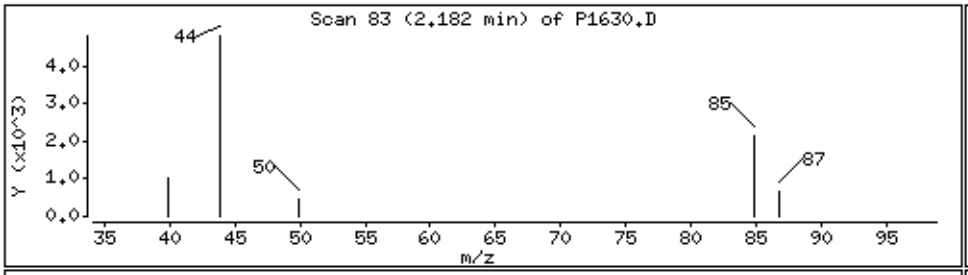
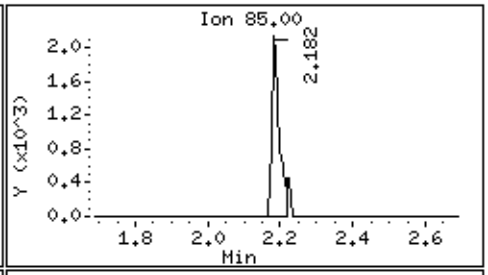
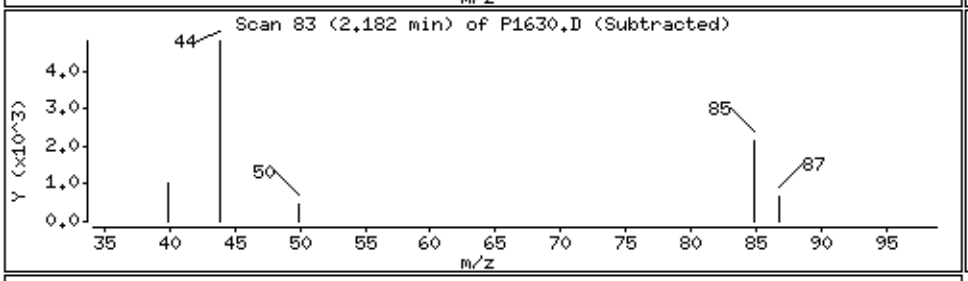
Date : 25-JUN-2015 20:12
Client ID: RE105D1-GW-062315
Sample Info: SI4462-11
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1630.D
Y (x10^6)
Min
-Dichlorodifluoromethane (2.182)
-1,1-Dichloroethene (3.891)+
-Acetone (4.814)
-cis-1,2-Dichloroethene (7.087)
-Dibromofluoromethane (7.895)+
-Pentafluorobenzene (8.718)+
-1,4-Difluorobenzene (9.576)
Trichloroethene (9.511)
-Toluene-D8 (11.692)
-Chlorobenzene-D5 (13.930)
-P-Bromofluorobenzene (15.532)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.926)

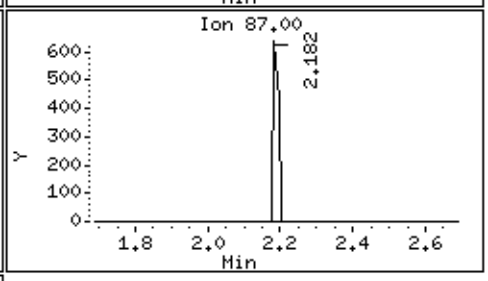
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1630.D
Date : 25-JUN-2015 20:12
Client ID: RE105D1-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-11

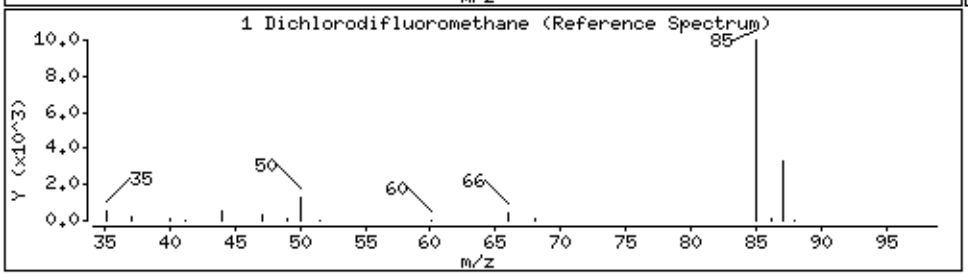
1 Dichlorodifluoromethane Concentration: 0.63 ug/l



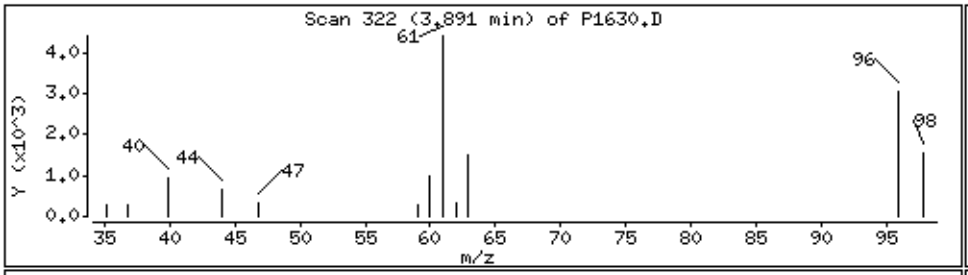


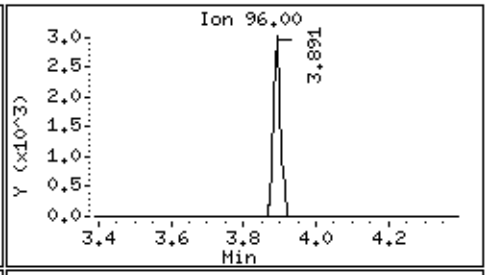


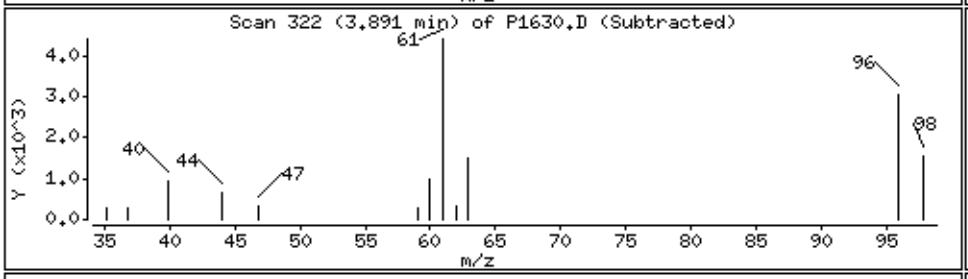


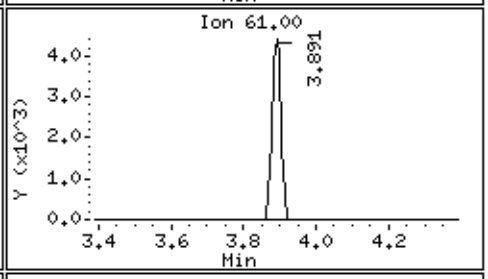


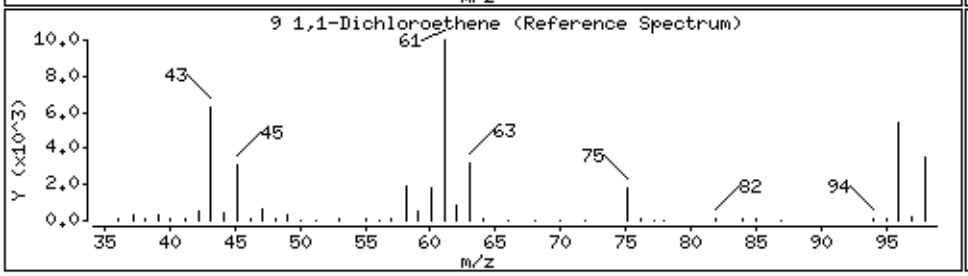
9 1,1-Dichloroethene Concentration: 1.1 ug/l

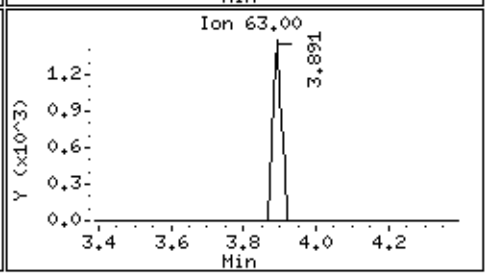












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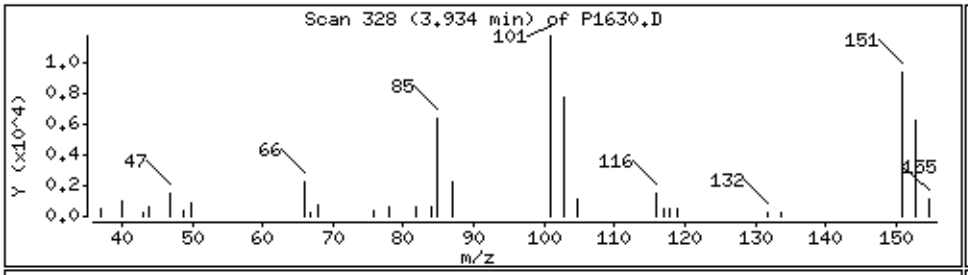
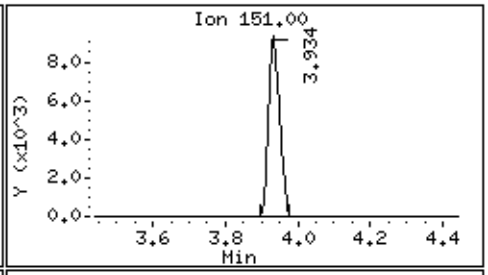
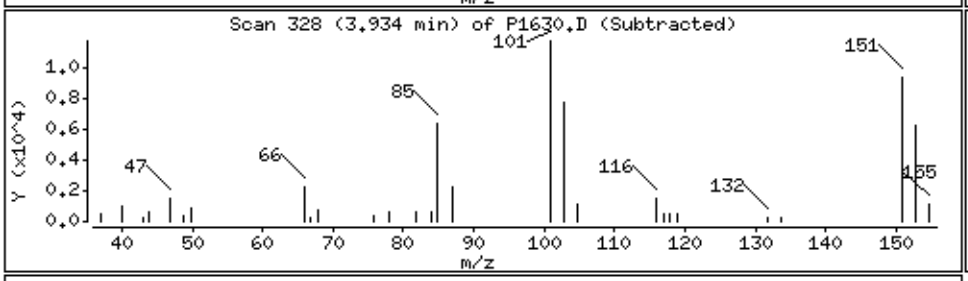
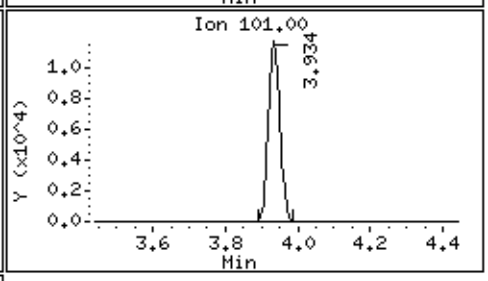
Date : 25-JUN-2015 20:12
Client ID: RE105D1-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-11

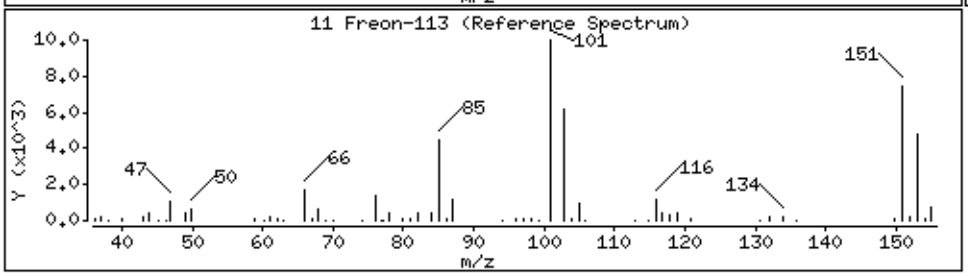
11 Freon-113 Concentration: 8.4 ug/l



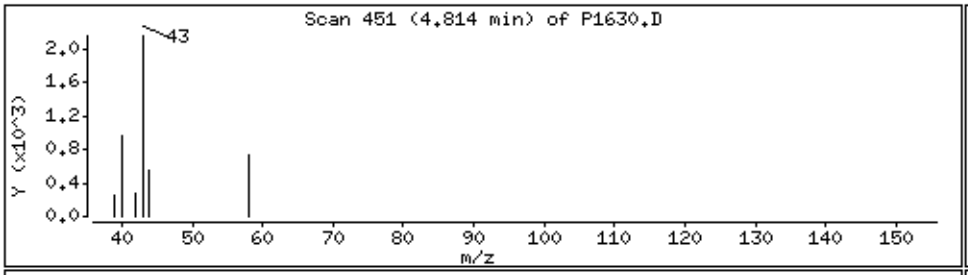


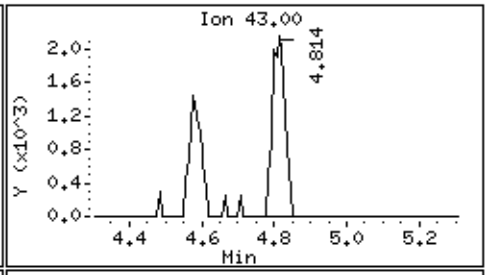


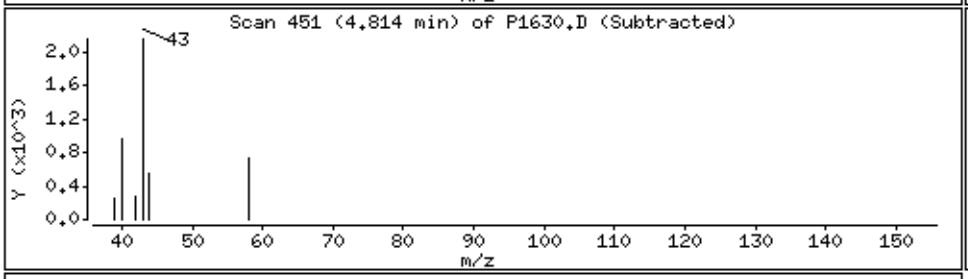


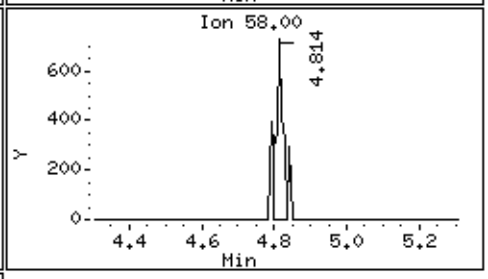


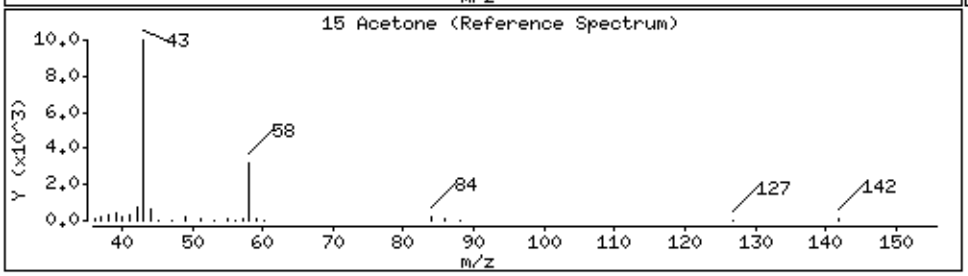
15 Acetone Concentration: 3.2 ug/l











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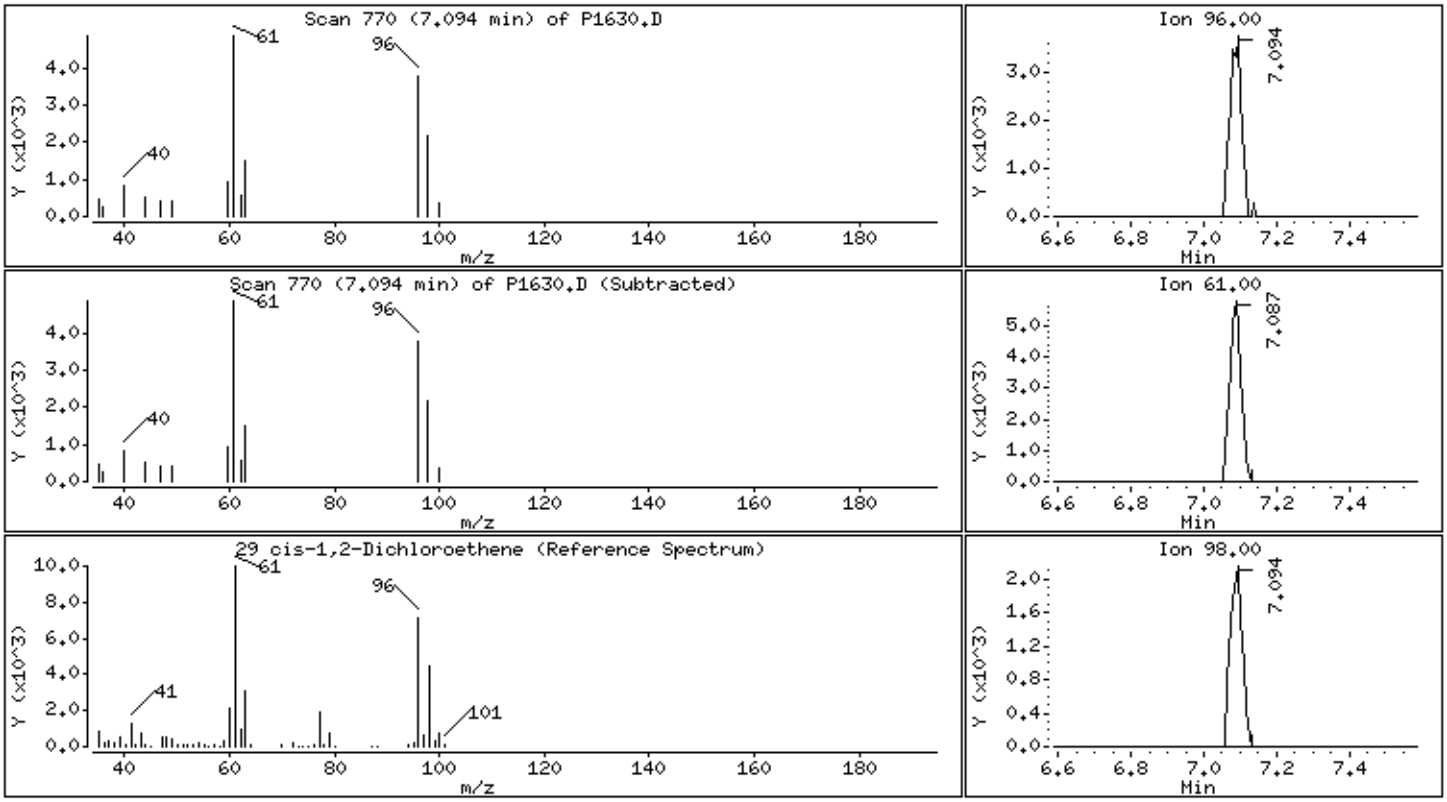
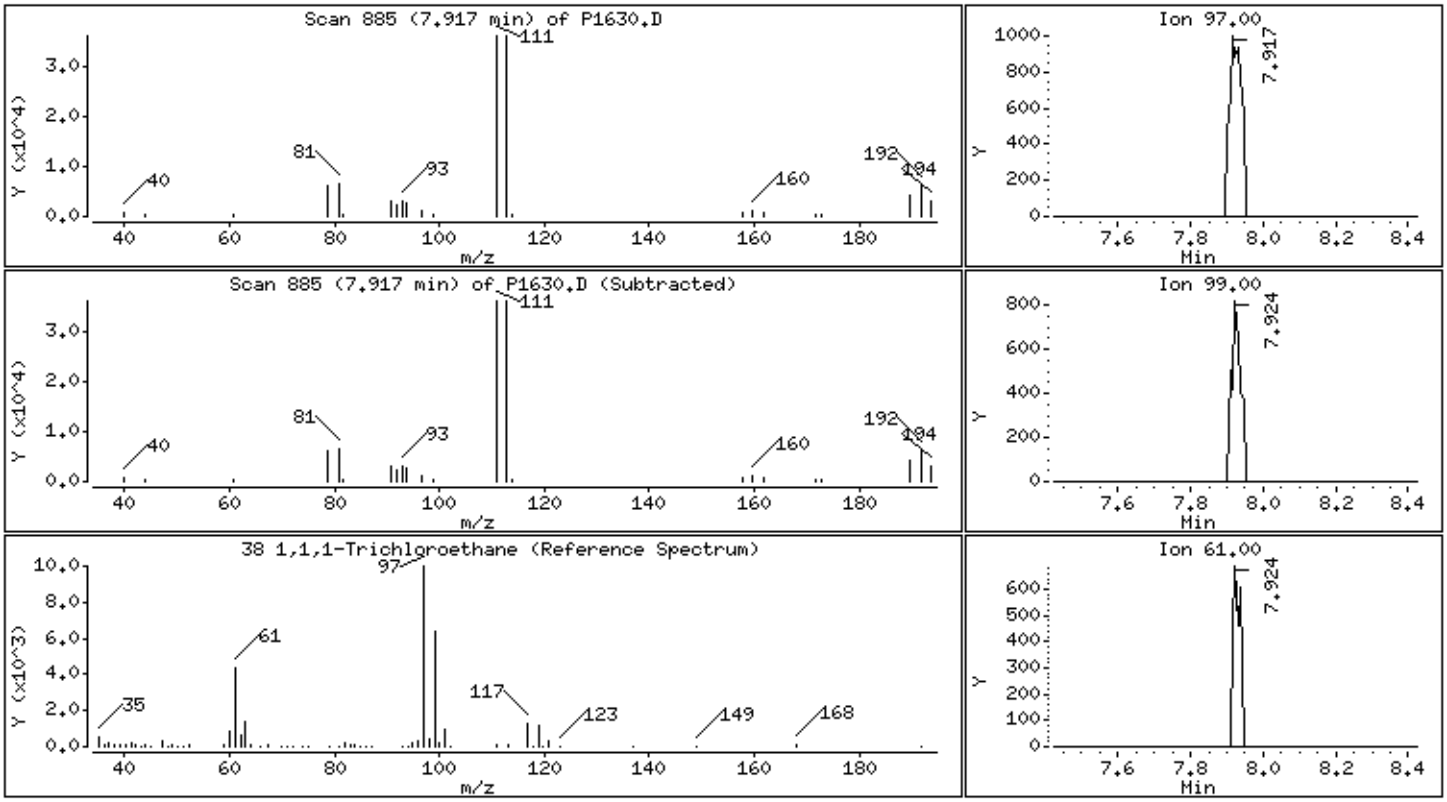
Date : 25-JUN-2015 20:12
Client ID: RE105D1-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-11

29 cis-1,2-Dichloroethene Concentration: 1.7 ug/l



38 1,1,1-Trichloroethane Concentration: 0.35 ug/l



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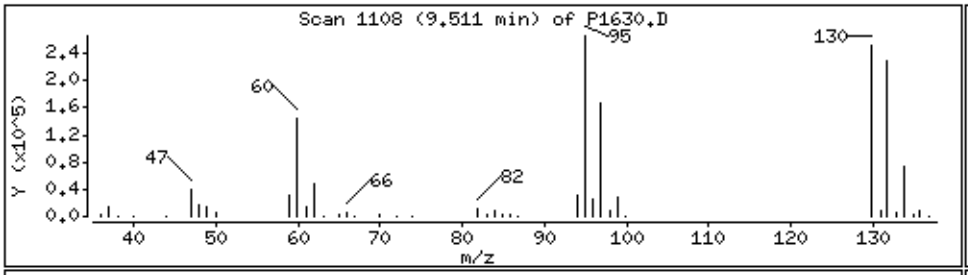
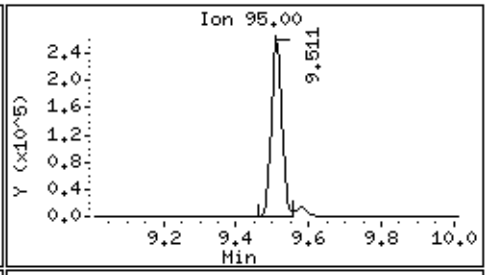
Date : 25-JUN-2015 20:12

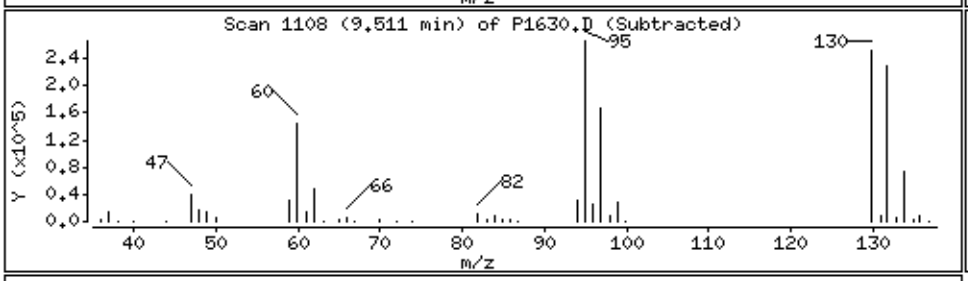
Client ID: RE105D1-GW-062315 Instrument: gcms-p.i

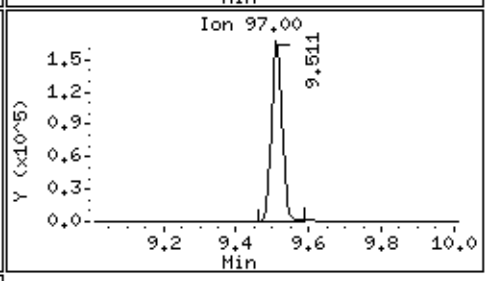
Sample Info: SI4462-11

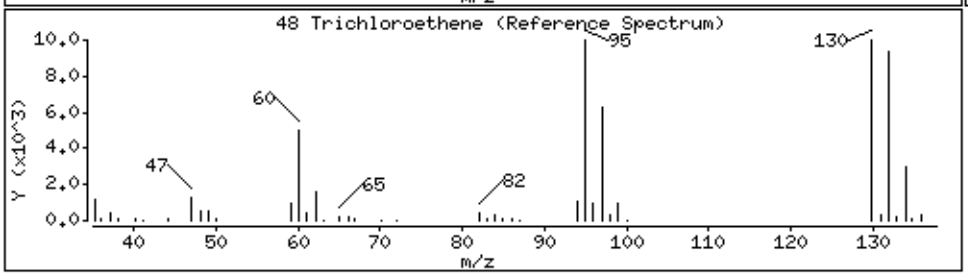
48 Trichloroethene Concentration: 118 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-12
Client ID: RE105D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1631.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	J	0.40	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene		6.0	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113		25	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	J	4.2	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane		1.3	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.4	ug/L	1	1	1.0	0.21	0.50
Chloroform		2.1	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	J	0.53	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride		2.7	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	E	1400	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane		1.1	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene		1.6	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

600 Technology Way
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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-12
Client ID: RE105D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1631.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)		3.4	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		94.7	%					
Toluene-d8		94.7	%					
1,2-Dichloroethane-d4		96.2	%					
Dibromofluoromethane		89.5	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1631.D
Report Date: 26-Jun-2015 06:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1631.D
Lab Smp Id: SI4462-12 Client Smp ID: RE105D2-GW-062315
Inj Date : 25-JUN-2015 20:40 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-12
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

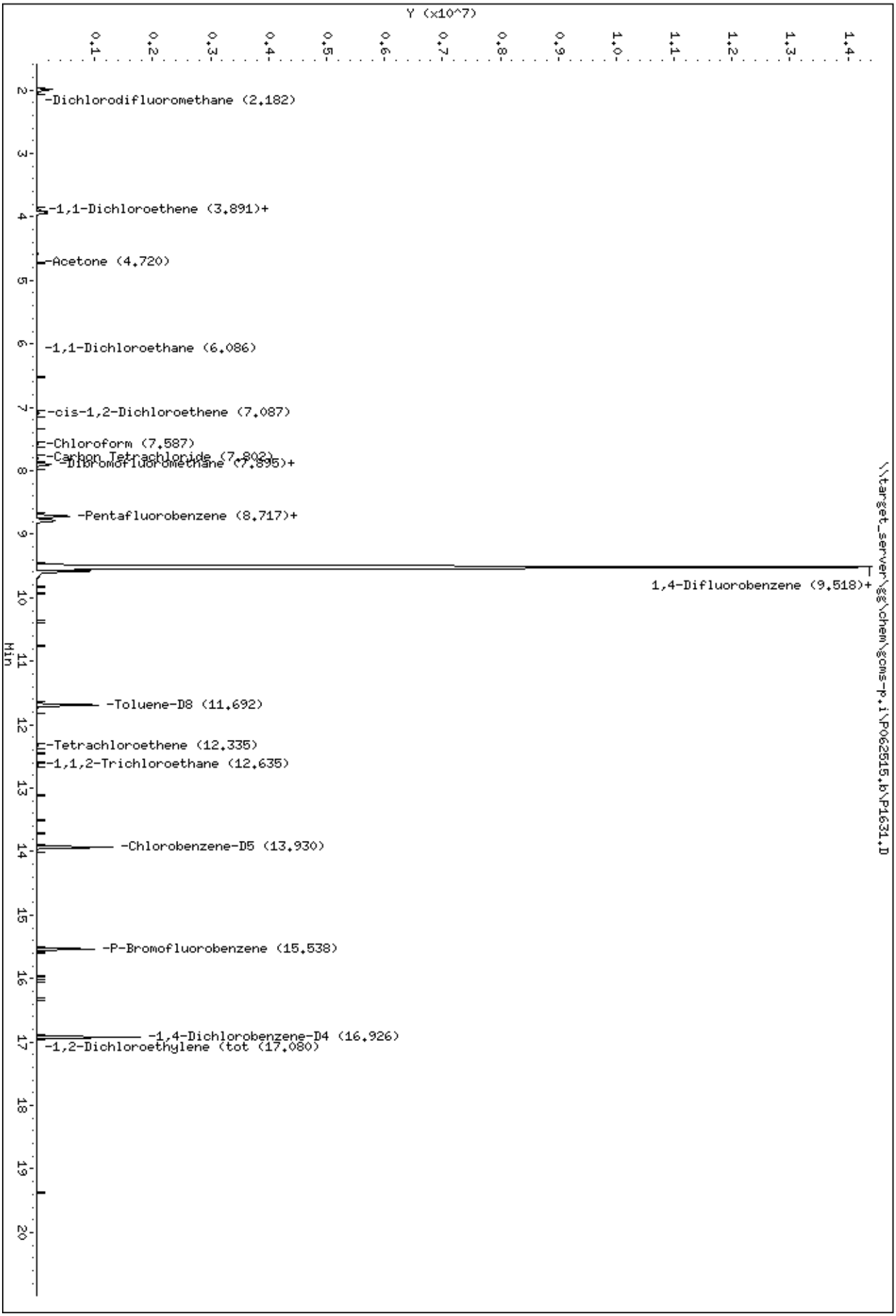
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	1 Dichlorodifluoromethane	85	2.181	2.187	(0.250)	1972	0.40526	0.40(a)	
	9 1,1-Dichloroethene	96	3.890	3.889	(0.446)	22093	6.03744	6.0	
	11 Freon-113	151	3.940	3.939	(0.452)	59027	25.2963	25.3	
	15 Acetone	43	4.813	4.804	(0.552)	6876	4.22018	4.2(a)	
	25 1,1-Dichloroethane	63	6.085	6.084	(0.698)	10062	1.32868	1.3	
	29 cis-1,2-Dichloroethene	96	7.086	7.085	(0.813)	16299	3.41701	3.4	
M	30 1,2-Dichloroethylene (total)	96				16299	3.41701	3.4	
	34 Chloroform	83	7.580	7.578	(0.870)	16175	2.09033	2.1	
	35 Carbon Tetrachloride	117	7.794	7.800	(0.813)	12487	2.72701	2.7	
$	37 Dibromofluoromethane	113	7.894	7.900	(0.906)	172566	44.7709	44.8	
	38 1,1,1-Trichloroethane	97	7.930	7.922	(0.910)	3377	0.52611	0.53(a)	
*	42 Pentafluorobenzene	168	8.717	8.715	(1.000)	356343	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.788	8.787	(1.008)	260478	48.1209	48.1	
	48 Trichloroethene	95	9.518	9.509	(0.993)	5629299	1350.72	1350(AH)	
*	49 1,4-Difluorobenzene	114	9.582	9.573	(1.000)	650381	50.0000		
$	55 Toluene-D8	98	11.691	11.690	(1.220)	680967	47.3304	47.3	
	59 Tetrachloroethene	164	12.335	12.333	(0.886)	4987	1.62276	1.6	
	61 1,1,2-Trichloroethane	83	12.635	12.634	(1.319)	3497	1.07761	1.1	
*	66 Chlorobenzene-D5	117	13.929	13.935	(1.000)	618912	50.0000		
$	76 P-Bromofluorobenzene	95	15.531	15.537	(1.621)	309938	47.3578	47.4	
*	91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	346395	50.0000		

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1631.D
Report Date: 26-Jun-2015 06:53

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
H - Operator selected an alternate compound hit.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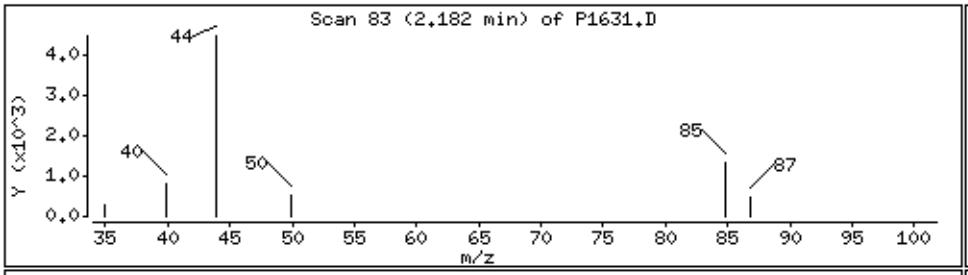
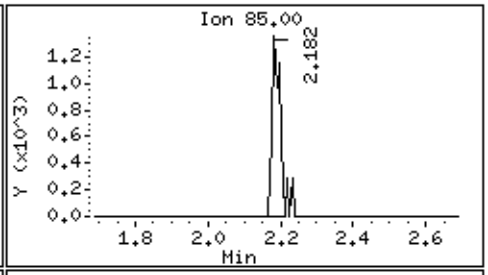
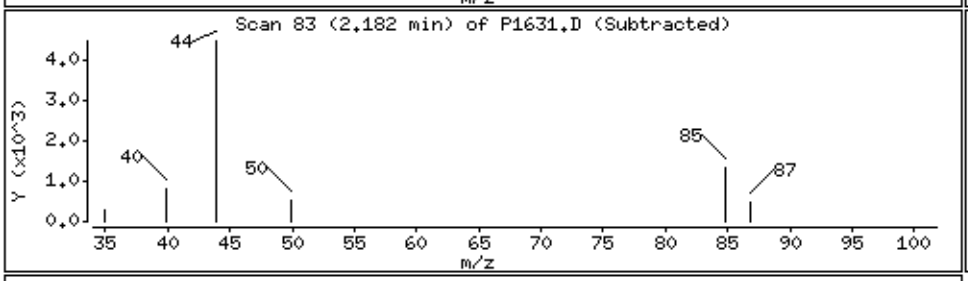
Date : 25-JUN-2015 20:40
Client ID: RE105D2-GW-062315
Sample Info: SI4462-12
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1631.D
Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
-Dichlorodifluoromethane (2.182)
-1,1-Dichloroethene (3.891)+
-Acetone (4.720)
-1,1-Dichloroethane (6.086)
-cis-1,2-Dichloroethene (7.087)
-Chloroform (7.587)
-Carbon Tetrachloride (7.802)
-Dibromofluoromethane (7.895)+
-Pentafluorobenzene (8.717)+
1,4-Difluorobenzene (9.518)+
-Toluene-D8 (11.692)
-Tetrachloroethene (12.335)
-1,1,2-Trichloroethane (12.635)
-Chlorobenzene-D5 (13.930)
-P-Bromofluorobenzene (15.538)
-1,4-Dichlorobenzene-D4 (16.926)
-1,2-Dichloroethylene (tot (17.080)

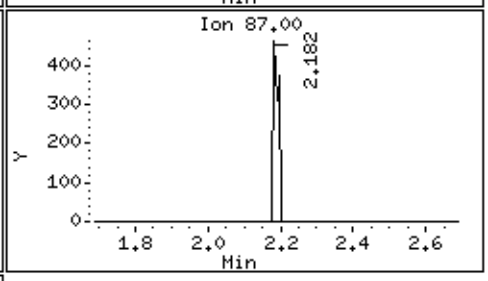
Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1631.D
Date : 25-JUN-2015 20:40
Client ID: RE105D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-12

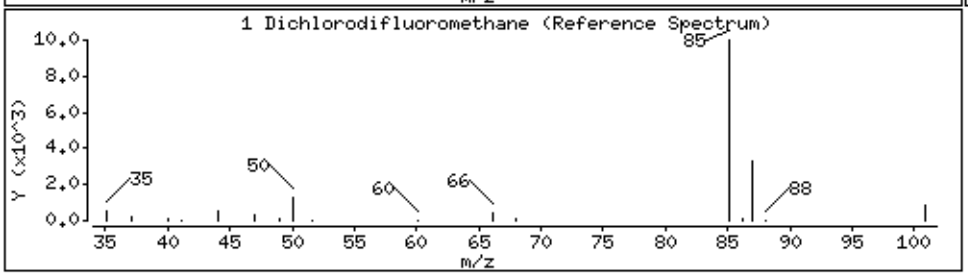
1 Dichlorodifluoromethane Concentration: 0.40 ug/l



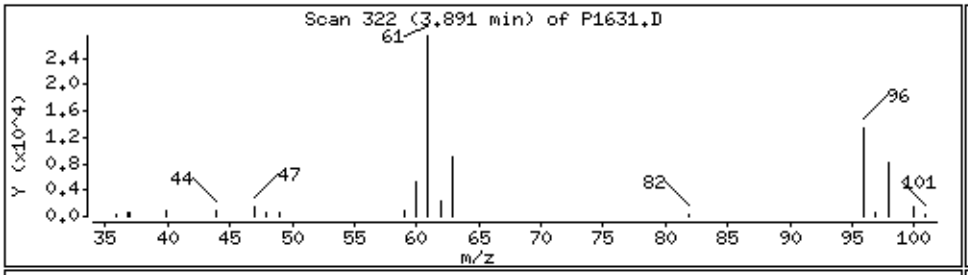


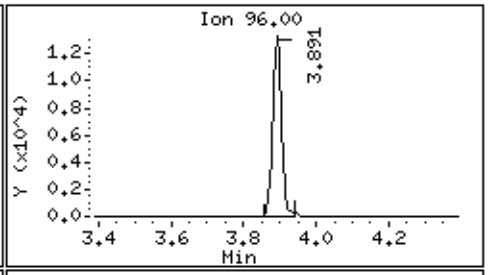


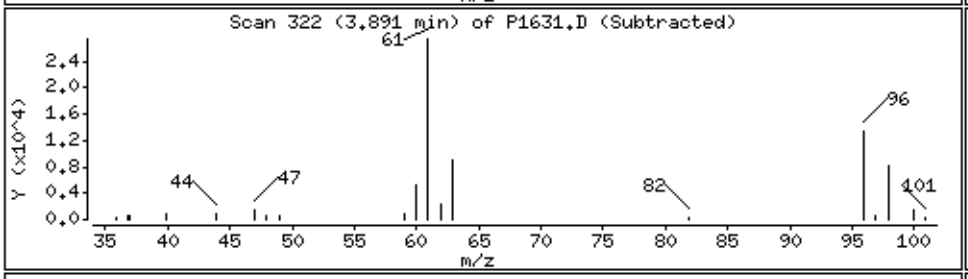


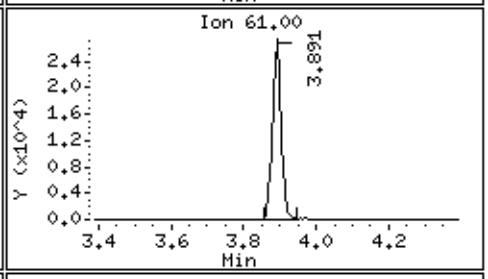


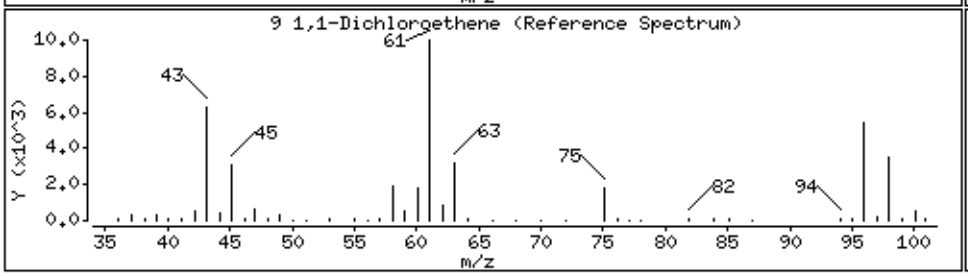
9 1,1-Dichloroethene Concentration: 6.0 ug/l

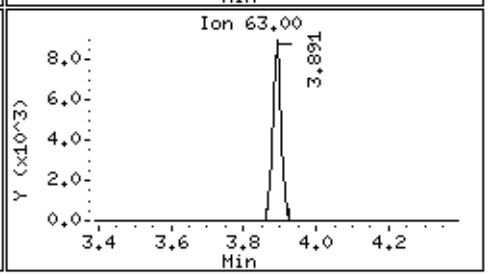












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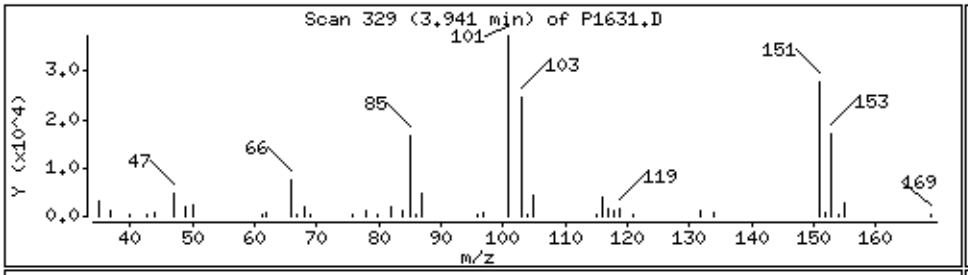
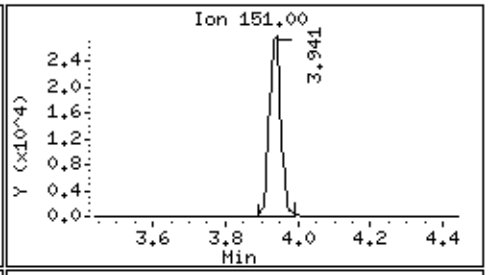
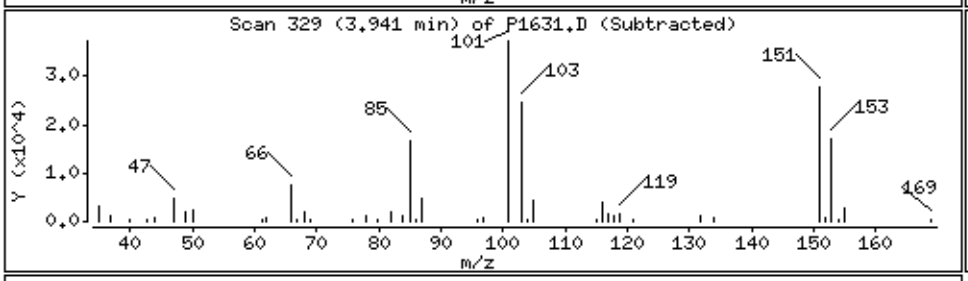
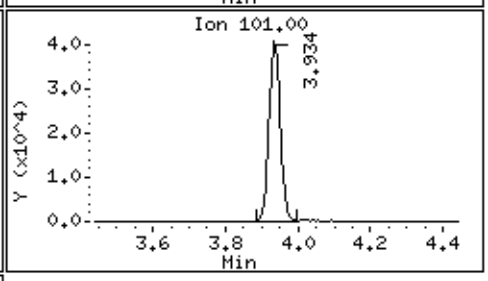
Date : 25-JUN-2015 20:40
Client ID: RE105D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-12

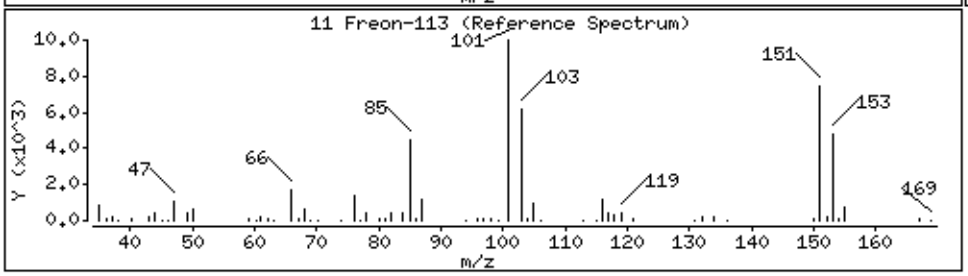
11 Freon-113 Concentration: 25.3 ug/l



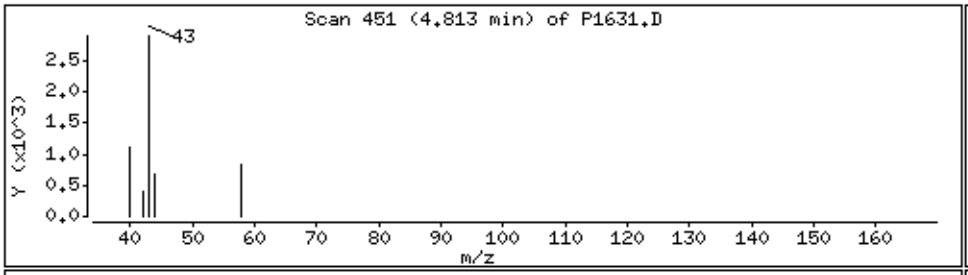


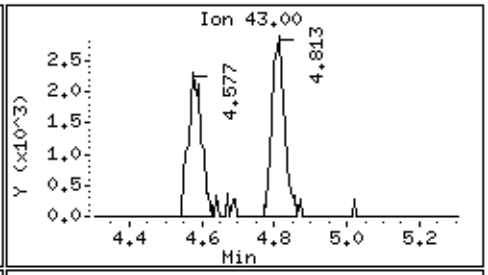


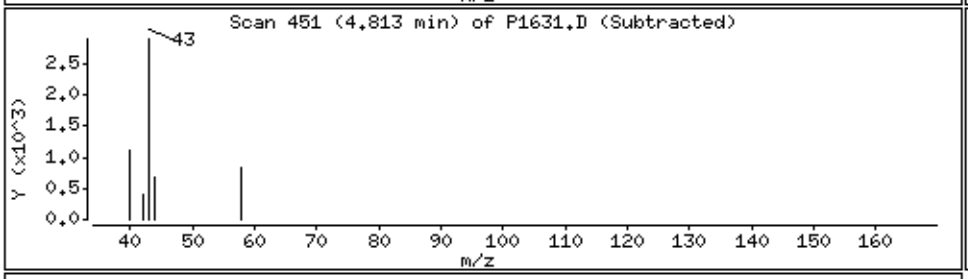


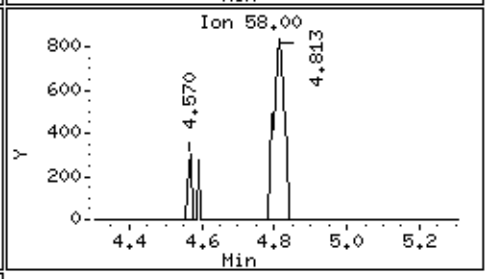


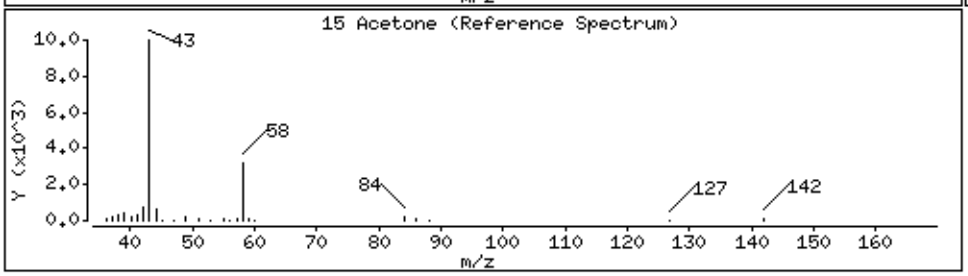
15 Acetone Concentration: 4.2 ug/l











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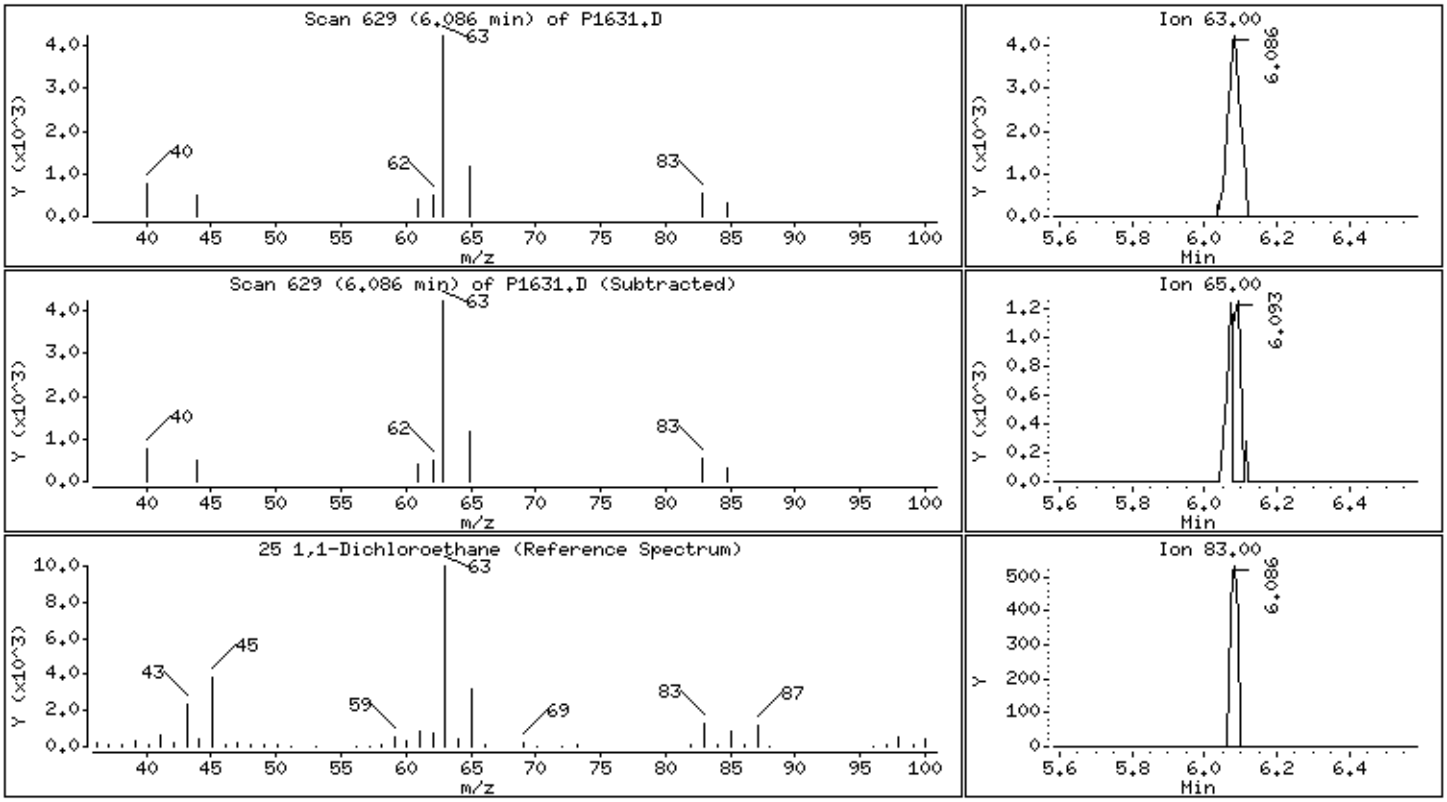
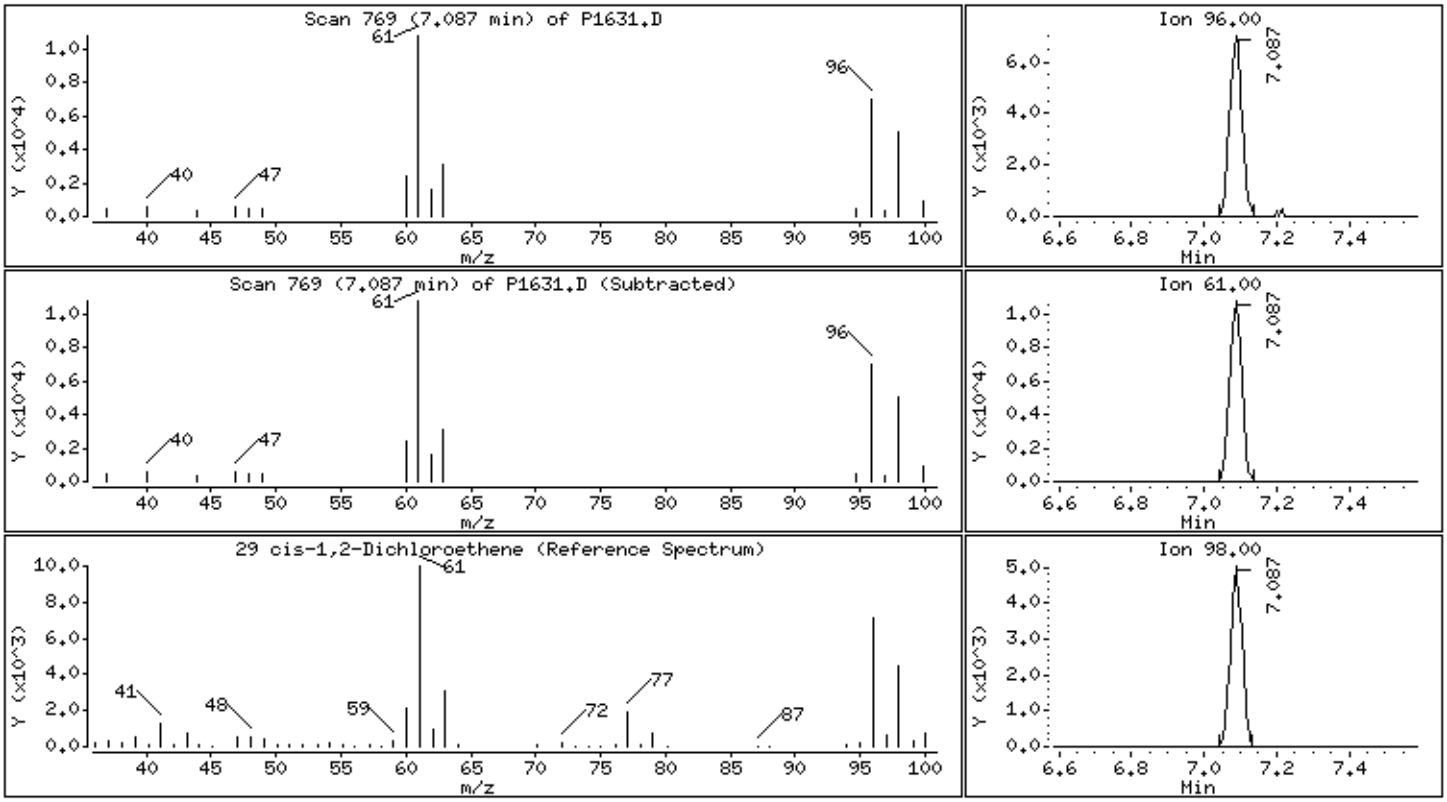
Date : 25-JUN-2015 20:40
Client ID: RE105D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-12

25 1,1-Dichloroethane Concentration: 1.3 ug/l



29 cis-1,2-Dichloroethene Concentration: 3.4 ug/l



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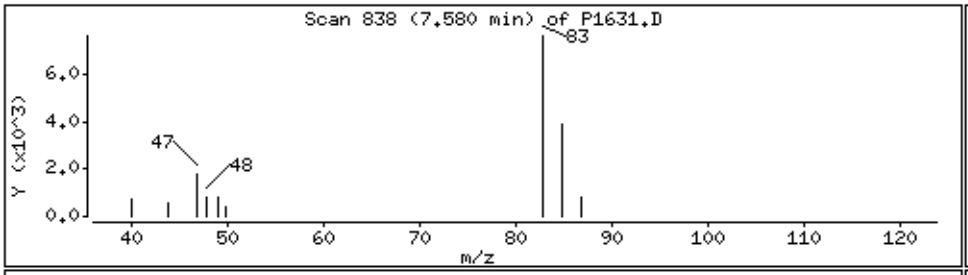
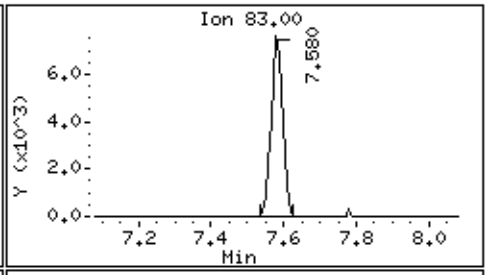
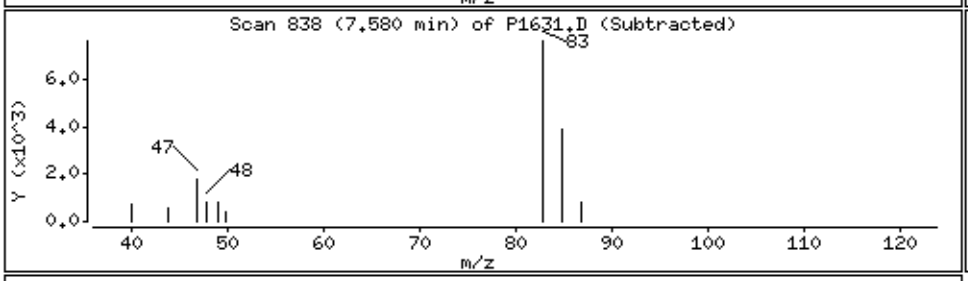
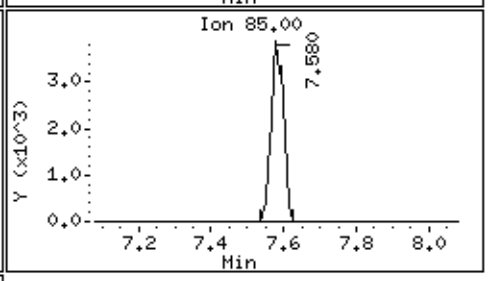
Date : 25-JUN-2015 20:40
Client ID: RE105D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-12

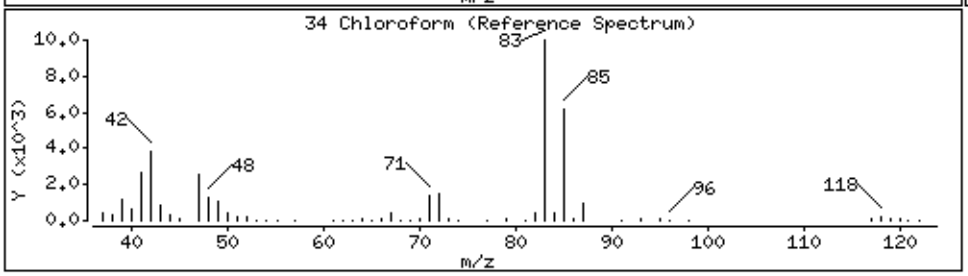
34 Chloroform Concentration: 2.1 ug/l



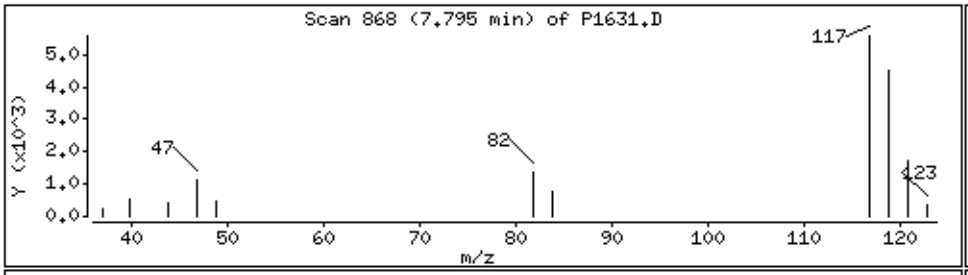


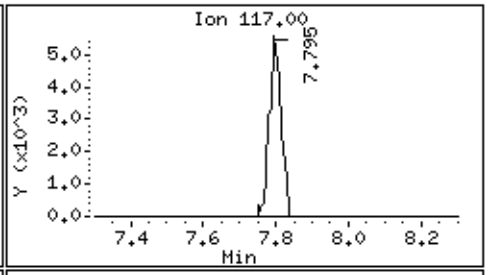


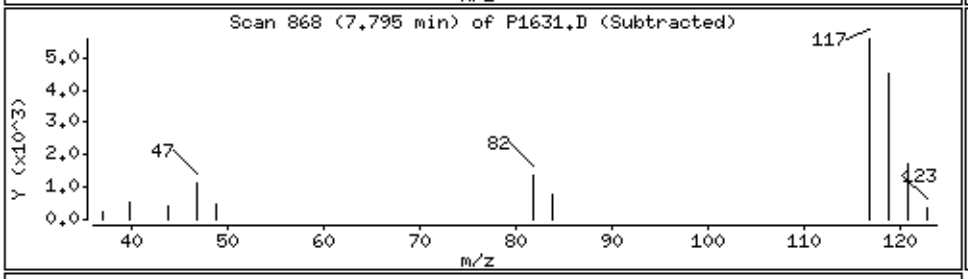


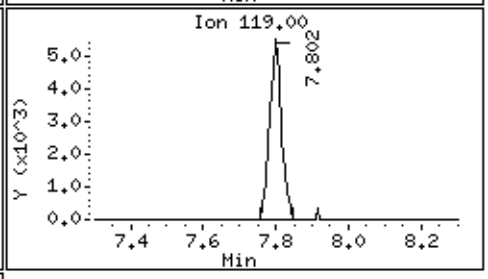


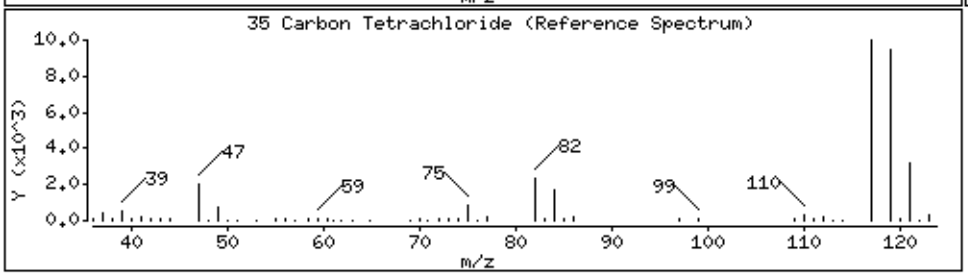
35 Carbon Tetrachloride Concentration: 2.7 ug/l











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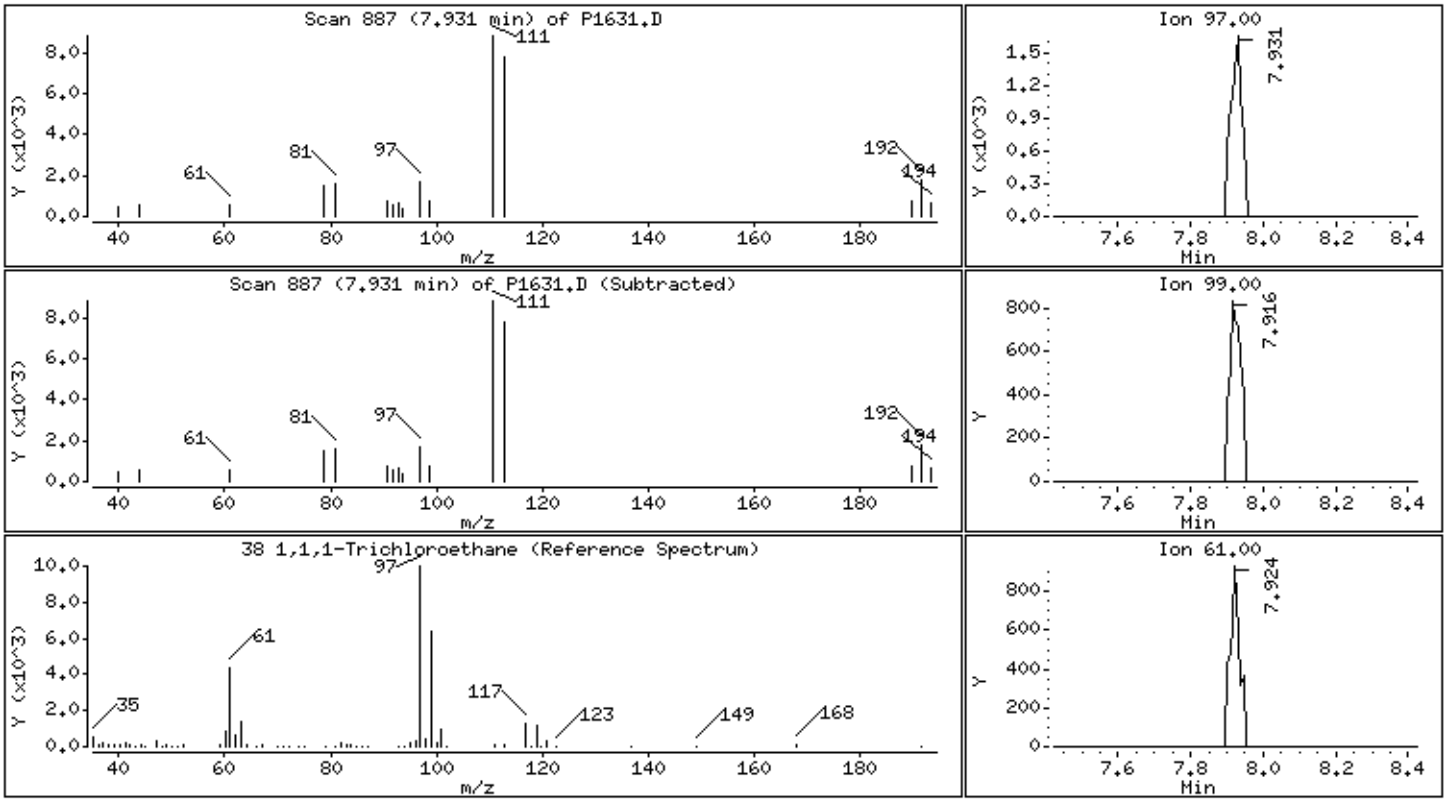
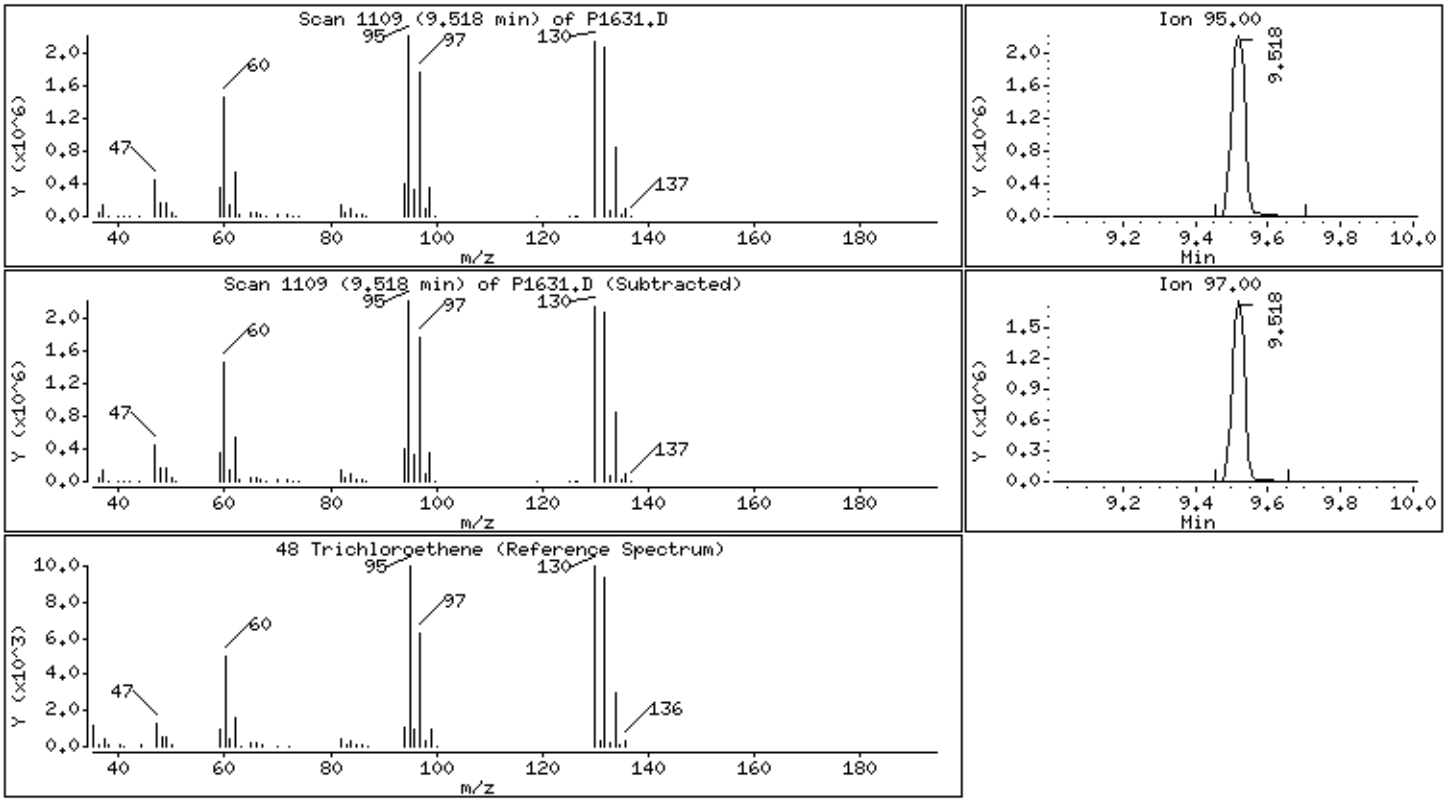
Date : 25-JUN-2015 20:40
Client ID: RE105D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-12

38 1,1,1-Trichloroethane Concentration: 0.53 ug/l



48 Trichloroethene Concentration: 1350 ug/l



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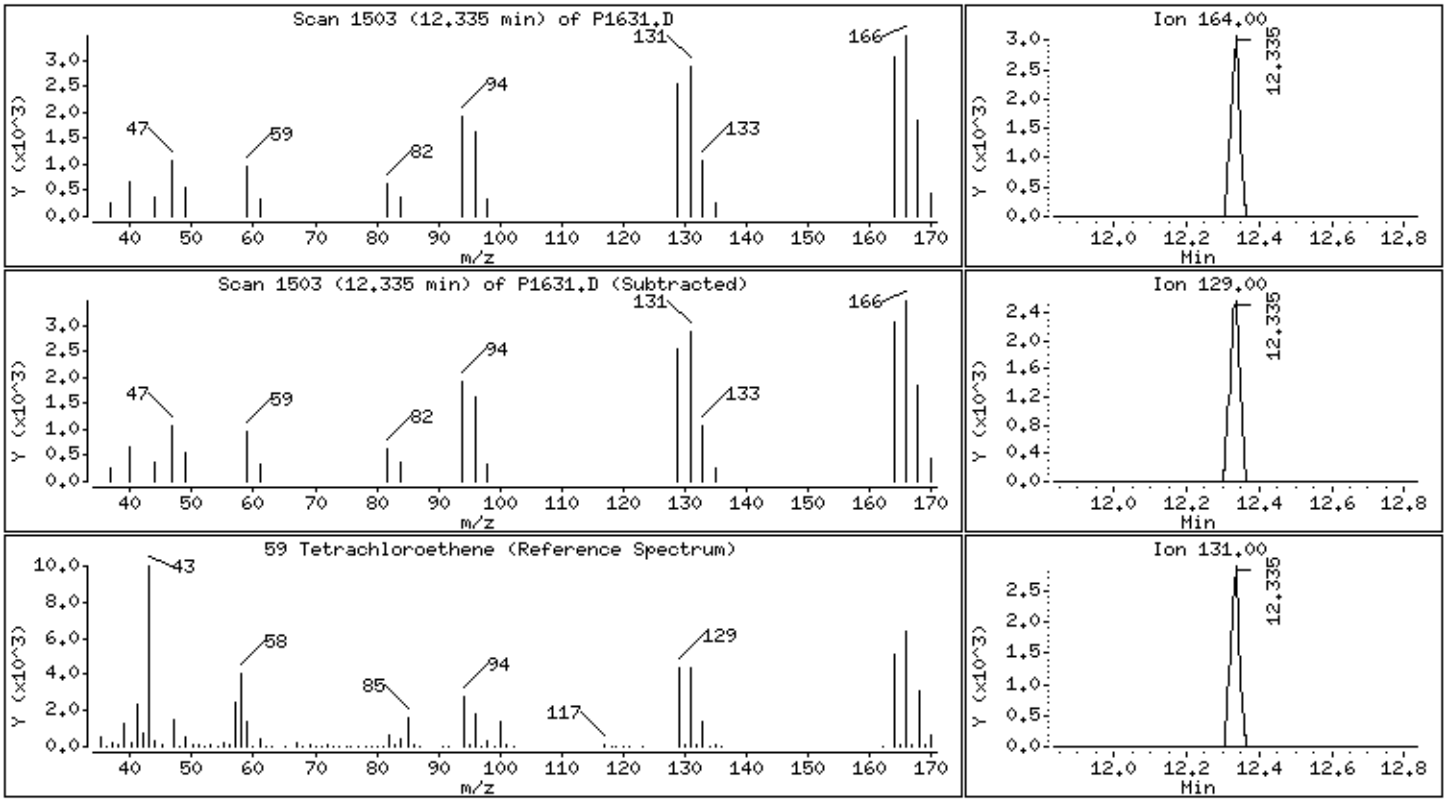
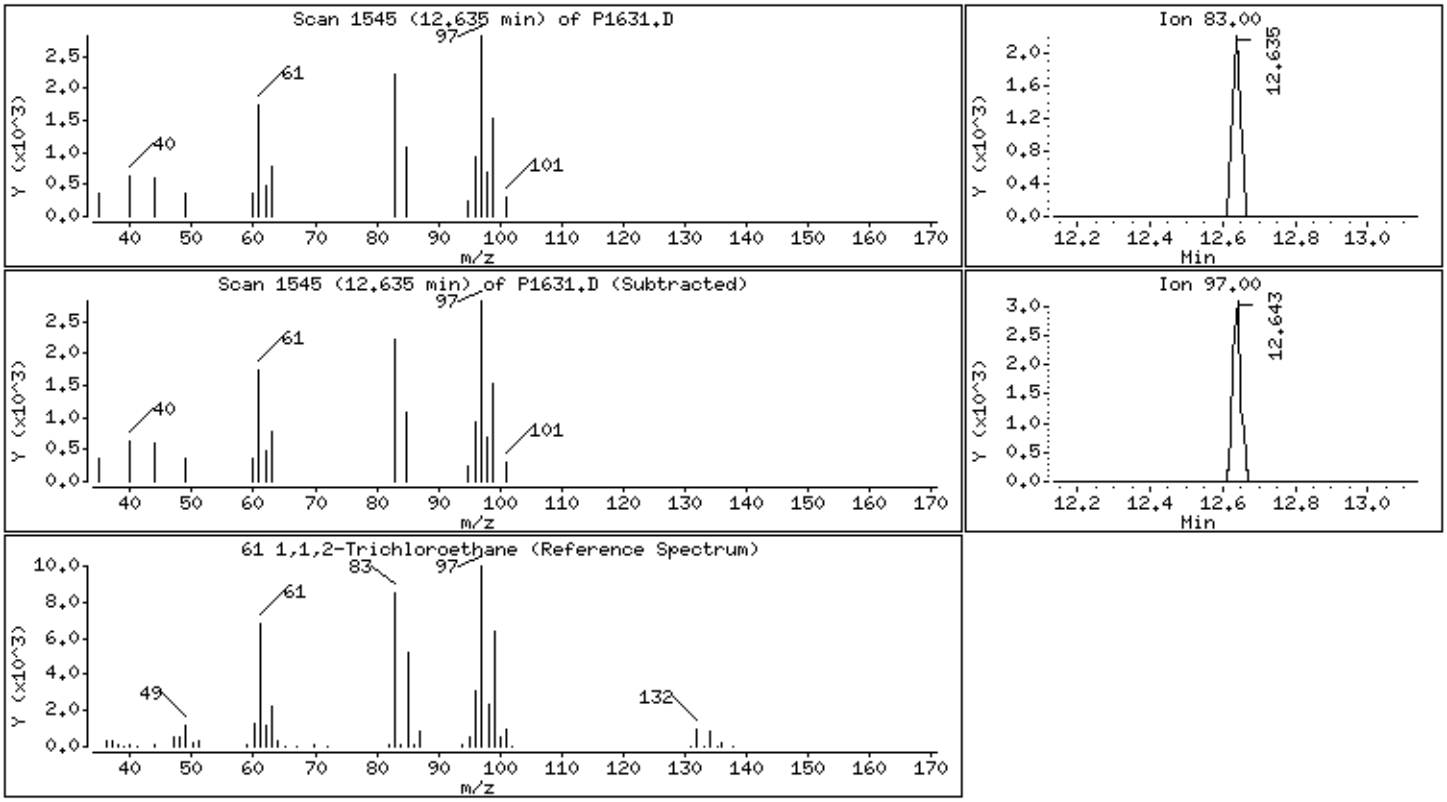
Date : 25-JUN-2015 20:40
Client ID: RE105D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-12

59 Tetrachloroethene Concentration: 1.6 ug/l



61 1,1,2-Trichloroethane Concentration: 1.1 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-12DL
Client ID: RE105D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1656.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	20	ug/L	20	2	40.	4.8	20.
Chloromethane	U	20	ug/L	20	2	40.	7.2	20.
Vinyl Chloride	U	20	ug/L	20	2	40.	5.0	20.
Bromomethane	U	20	ug/L	20	2	40.	9.8	20.
Chloroethane	U	20	ug/L	20	2	40.	11.	20.
Trichlorofluoromethane	U	20	ug/L	20	2	40.	4.8	20.
1,1-Dichloroethene	U	10	ug/L	20	1	20.	7.0	10.
Carbon Disulfide	U	10	ug/L	20	1	20.	5.0	10.
Freon-113	J	14	ug/L	20	1	20.	6.2	10.
Methylene Chloride	U	50	ug/L	20	5	100	23.	50.
Acetone	U	50	ug/L	20	5	100	44.	50.
trans-1,2-Dichloroethene	U	10	ug/L	20	1	20.	5.0	10.
Methyl tert-butyl Ether	U	10	ug/L	20	1	20.	7.2	10.
1,1-Dichloroethane	U	10	ug/L	20	1	20.	4.2	10.
cis-1,2-Dichloroethene	U	10	ug/L	20	1	20.	4.2	10.
Chloroform	U	10	ug/L	20	1	20.	6.4	10.
1,1,1-Trichloroethane	U	10	ug/L	20	1	20.	4.0	10.
2-Butanone	U	50	ug/L	20	5	100	26.	50.
Cyclohexane	U	10	ug/L	20	1	20.	6.2	10.
Carbon Tetrachloride	U	10	ug/L	20	1	20.	4.4	10.
Benzene	U	10	ug/L	20	1	20.	5.2	10.
1,2-Dichloroethane	U	10	ug/L	20	1	20.	4.0	10.
Trichloroethene		1400	ug/L	20	1	20.	5.6	10.
1,2-Dichloropropane	U	10	ug/L	20	1	20.	5.0	10.
Bromodichloromethane	U	10	ug/L	20	1	20.	6.6	10.
cis-1,3-Dichloropropene	U	10	ug/L	20	1	20.	3.8	10.
Toluene	U	10	ug/L	20	1	20.	5.4	10.
4-Methyl-2-Pentanone	U	50	ug/L	20	5	100	26.	50.
trans-1,3-Dichloropropene	U	10	ug/L	20	1	20.	4.0	10.
1,1,2-Trichloroethane	U	10	ug/L	20	1	20.	6.6	10.
Tetrachloroethene	U	10	ug/L	20	1	20.	8.0	10.
Dibromochloromethane	U	10	ug/L	20	1	20.	6.0	10.
2-Hexanone	U	50	ug/L	20	5	100	34.	50.
Chlorobenzene	U	10	ug/L	20	1	20.	4.4	10.
Ethylbenzene	U	10	ug/L	20	1	20.	4.2	10.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-12DL
Client ID: RE105D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1656.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	30	ug/L	20	3	60.	5.0	30.
Styrene	U	10	ug/L	20	1	20.	4.6	10.
Bromoform	U	10	ug/L	20	1	20.	4.6	10.
Isopropylbenzene	U	10	ug/L	20	1	20.	4.6	10.
1,1,2,2-Tetrachloroethane	U	10	ug/L	20	1	20.	7.6	10.
1,3-Dichlorobenzene	U	10	ug/L	20	1	20.	5.2	10.
1,4-Dichlorobenzene	U	10	ug/L	20	1	20.	4.8	10.
1,2-Dichlorobenzene	U	10	ug/L	20	1	20.	3.0	10.
1,2,4-Trichlorobenzene	U	10	ug/L	20	1	20.	7.4	10.
Methyl Acetate	U	15	ug/L	20	1	20.	11.	15.
Methylcyclohexane	U	10	ug/L	20	1	20.	6.0	10.
o-Xylene	U	10	ug/L	20	1	20.	5.0	10.
M+P-Xylenes	U	20	ug/L	20	2	40.	12.	20.
1,2-Dichloroethylene (Total)	U	20	ug/L	20	2	40.	4.2	20.
1,2-Dibromoethane	U	10	ug/L	20	1	20.	4.4	10.
1,2-Dibromo-3-Chloropropane	U	15	ug/L	20	1	20.	10.	15.
P-Bromofluorobenzene		90.4	%					
Toluene-d8		91.9	%					
1,2-Dichloroethane-d4		95.4	%					
Dibromofluoromethane		88.6	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1656.D
Report Date: 06-Jul-2015 14:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1656.D
Lab Smp Id: SI4462-12DL Client Smp ID: RE105D2-GW-062315
Inj Date : 26-JUN-2015 18:43 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-12DL
Misc Info : WG165523,WG165276-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 21
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

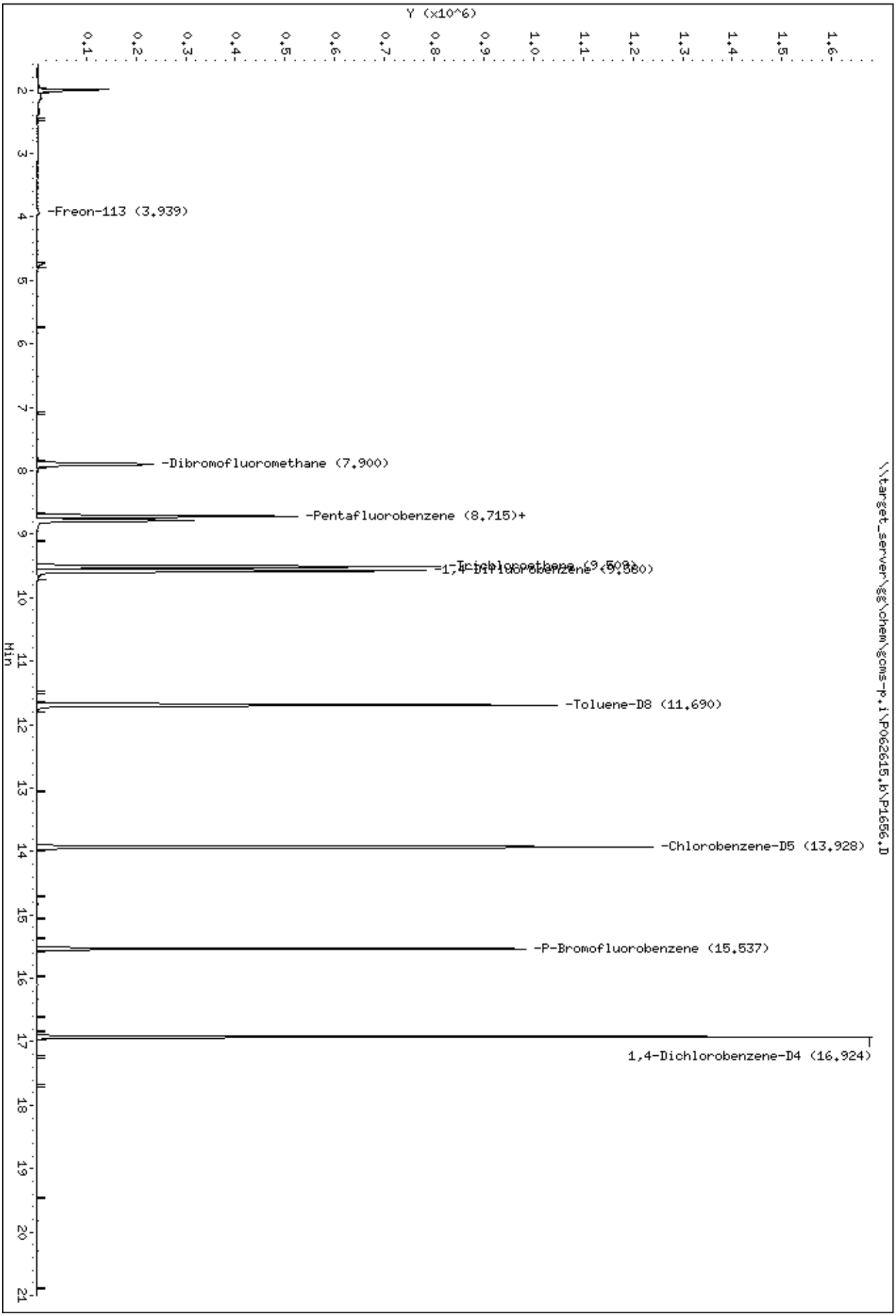
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
11 Freon-113	151	3.938	3.939	(0.452)	1647	0.72565	14.5(a)	
$ 37 Dibromofluoromethane	113	7.900	7.900	(0.906)	166101	44.3040	44.3	
* 42 Pentafluorobenzene	168	8.715	8.715	(1.000)	346608	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.008)	251228	47.7156	47.7	
48 Trichloroethene	95	9.508	9.509	(0.993)	290764	70.0905	1400	
* 49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	647384	50.0000		
$ 55 Toluene-D8	98	11.689	11.690	(1.220)	658403	45.9739	46.0	
* 66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	589506	50.0000		
$ 76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	294290	45.1750	45.2	
* 91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	330685	50.0000		

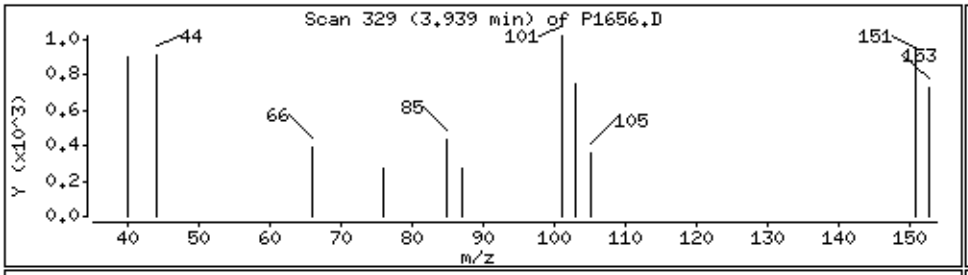
QC Flag Legend

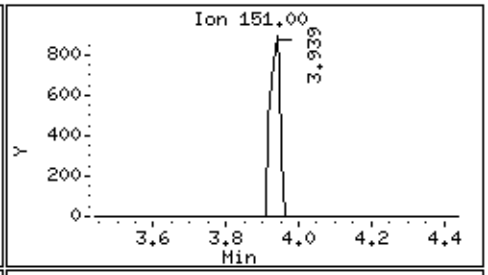
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

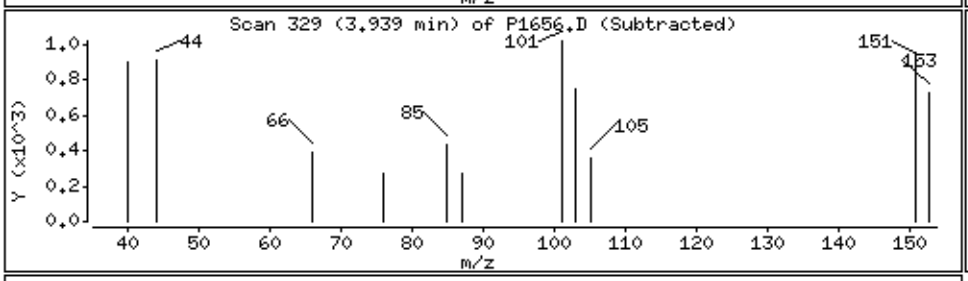

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1656.D
Date : 26-JUN-2015 18:43
Client ID: RE105D2-GW-062315
Sample Info: SI4462-12DL
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062615.b\P1656.D
Y (x10^6)
Min
-Freon-113 (3.939)
-Dibromofluoromethane (7.900)
-Pentafluorobenzene (8.715)+
-Toluene-D8 (11.690)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
1,4-Dichlorobenzene-D4 (16.924)

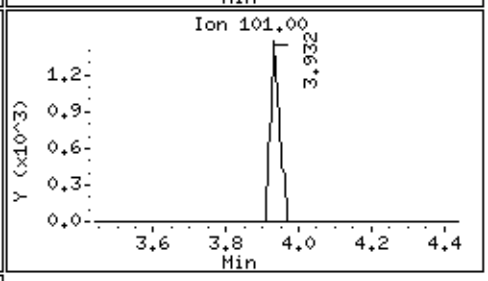
Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1656.D
Date : 26-JUN-2015 18:43
Client ID: RE105D2-GW-062315 Instrument: gcms-p.i
Sample Info: SI4462-12DL

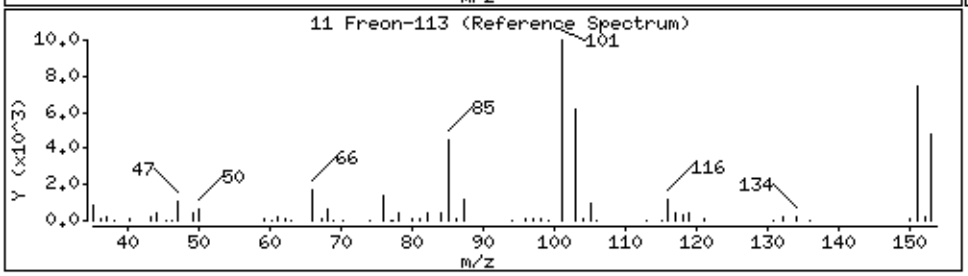
11 Freon-113 Concentration: 14.5 ug/l



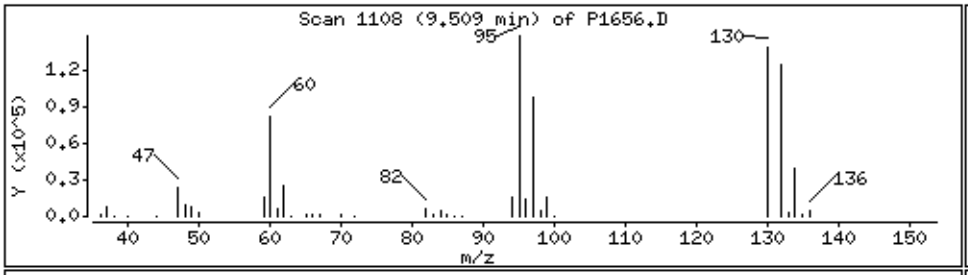


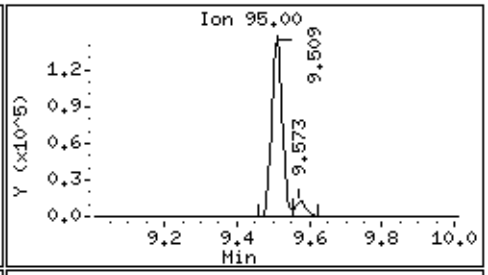


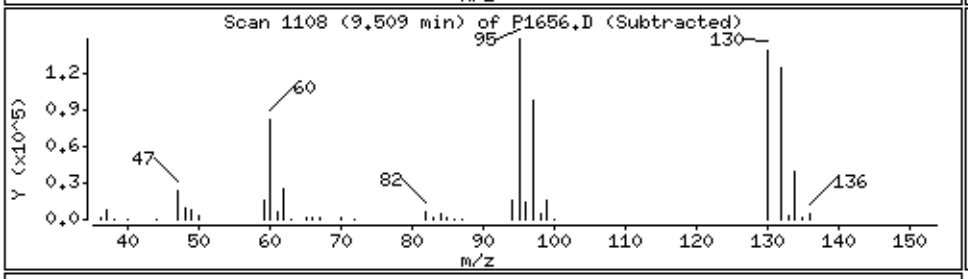


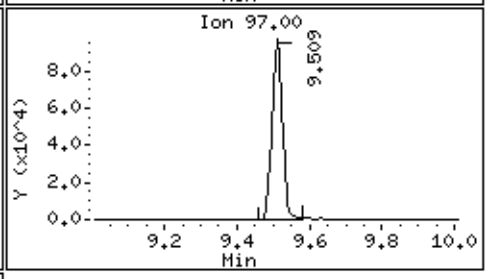


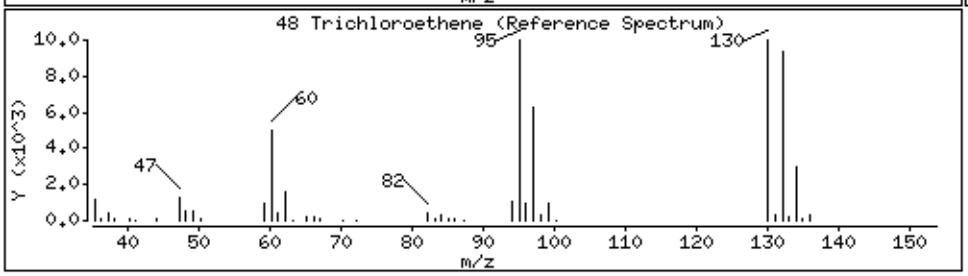
48 Trichloroethene Concentration: 1400 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-13
Client ID: TB-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1620.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 08-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-13
Client ID: TB-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: P1620.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 08-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		92.5	%					
Toluene-d8		95.0	%					
1,2-Dichloroethane-d4		94.3	%					
Dibromofluoromethane		90.0	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1620.D
Report Date: 08-Jul-2015 15:25

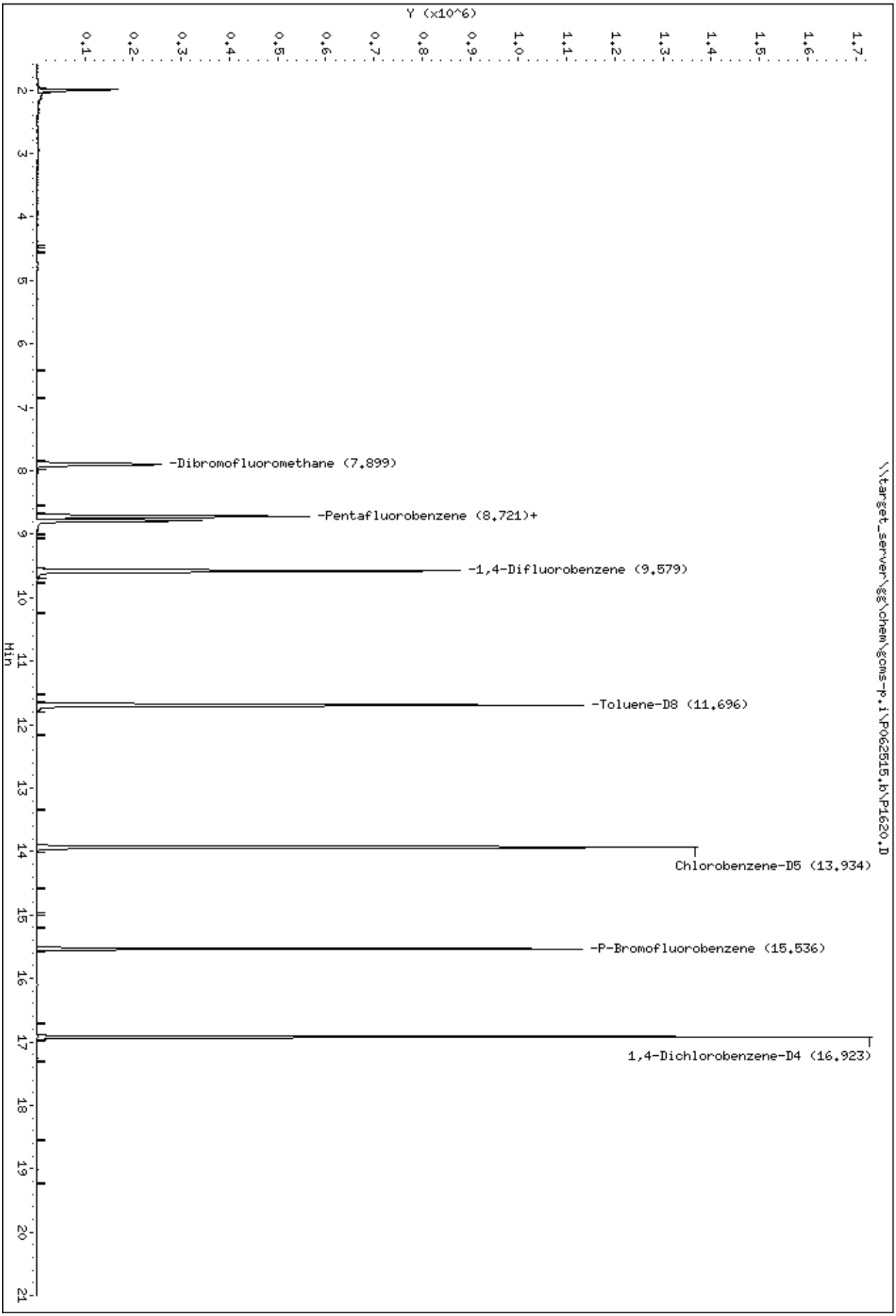
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1620.D
Lab Smp Id: SI4462-13 Client Smp ID: TB-062315
Inj Date : 25-JUN-2015 15:40 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4462-13
Misc Info : WG165462,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 01-Jul-2015 15:34 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.899	7.900	(0.906)	184950	44.9929	45.0	
* 42 Pentafluorobenzene	168	8.721	8.715	(1.000)	380031	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.785	8.787	(1.007)	272176	47.1478	47.1	
* 49 1,4-Difluorobenzene	114	9.579	9.573	(1.000)	705476	50.0000		
$ 55 Toluene-D8	98	11.695	11.690	(1.221)	741172	47.4918	47.5	
* 66 Chlorobenzene-D5	117	13.933	13.935	(1.000)	651322	50.0000		
$ 76 P-Bromofluorobenzene	95	15.535	15.537	(1.622)	328255	46.2396	46.2	
* 91 1,4-Dichlorobenzene-D4	152	16.929	16.924	(1.000)	362898	50.0000		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Date : 25-JUN-2015 15:40
Client ID: TB-062315
Sample Info: SI4462-13
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1620.D
Y (x10^6)
Min
-Dibromofluoromethane (7.899)
-Pentafluorobenzene (8.721)+
-1,4-Difluorobenzene (9.579)
-Toluene-D8 (11.696)
Chlorobenzene-D5 (13.934)
-P-Bromofluorobenzene (15.536)
1,4-Dichlorobenzene-D4 (16.923)

Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4462
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-P
Lab File IDs : P1536.D P1535.D P1534.D P1533.D P1538.D P1537.D **Column ID:**
Calibration Date(s): 22-JUN-15 10:02 22-JUN-15 12:13

	Level 1 1.0000	Level 2 5.0000	Level 3 20.0000	Level 4 50.0000	Level 5 100.0000	Level 6 200.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.71991	0.64793	0.65273	0.68867	0.71376	0.67358	AVG		0.68276		4.43040	15.00000	O
Chloromethane	1.05365	0.91418	0.91249	0.96518	0.96130	1.04364	AVG		0.97507		6.28640	15.00000	O
Vinyl chloride	0.67640	0.69866	0.69303	0.72668	0.76449	0.73236	AVG		0.71527		4.47691	15.00000	O
Bromomethane	2161	12281	50033	141413	345778	617776	LNR	0.02370	0.38031		0.99741	0.99000	O
Chloroethane	4765	22347	93465	235608	315080	500563	QUA	0.01805	1.01089	1.91194	0.99228	0.99000	O
Trichlorofluoromethane	1.05539	0.88132	0.89902	0.95662	0.88002	1.03352	AVG		0.95098		8.19060	15.00000	O
1,1-Dichloroethene	0.48383	0.49724	0.50562	0.51835	0.52337	0.55233	AVG		0.51346		4.63801	15.00000	O
Carbon Disulfide	1.91590	1.70298	1.81864	1.96791	1.96121	1.92880	AVG		1.88257		5.47164	15.00000	O
Freon-113	0.33779	0.31231	0.31048	0.31669	0.35641	0.33078	AVG		0.32741		5.44557	15.00000	O
Methylene Chloride	10315	31973	122218	287284	603269	1149174	LNR	-0.01408	0.69234		0.99993	0.99000	O
Acetone	0.22360	0.22286	0.22696	0.23345	0.24087	0.22396	AVG		0.22862		3.13073	15.00000	O
trans-1,2-Dichloroethene	0.54343	0.52928	0.53499	0.56174	0.56553	0.54736	AVG		0.54706		2.62564	15.00000	O
Methyl tert-butyl ether	1.49918	1.68350	1.79965	1.82931	1.89366	1.57188	AVG		1.71286		9.05113	15.00000	O
1,1-Dichloroethane	1.06962	1.05046	1.06445	1.05825	1.08594	1.04684	AVG		1.06259		1.33895	15.00000	O
cis-1,2-Dichloroethene	0.67154	0.64001	0.67597	0.66289	0.69061	0.67474	AVG		0.66929		2.52869	15.00000	O
1,2-Dichloroethylene (total	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
Chloroform	1.13466	1.05314	1.08559	1.08617	1.09400	1.06096	AVG		1.08575		2.64962	15.00000	O
Carbon Tetrachloride	0.32974	0.34745	0.34149	0.36054	0.37367	0.35926	AVG		0.35203		4.44040	15.00000	O
1,1,1-Trichloroethane	0.87532	0.86723	0.90337	0.92499	0.94220	0.89080	AVG		0.90065		3.21088	15.00000	O
2-Butanone	0.25440	0.29325	0.29957	0.28998	0.30535	0.26034	AVG		0.28381		7.48252	15.00000	O
Benzene	1.29935	1.27451	1.29079	1.26836	1.27648	1.14955	AVG		1.25984		4.38327	15.00000	O
Cyclohexane	0.98260	0.94842	0.95244	0.96567	1.05404	0.95588	AVG		0.97651		4.08590	15.00000	O
1,2-Dichloroethane	0.49124	0.46409	0.48123	0.47081	0.45223	0.42609	AVG		0.46428		4.96877	15.00000	O
Trichloroethene	0.34335	0.32343	0.31989	0.31552	0.31620	0.30400	AVG		0.32040		4.06165	15.00000	O
1,2-Dichloropropane	0.32962	0.30581	0.31078	0.32033	0.32915	0.31738	AVG		0.31885		3.01328	15.00000	O
Bromodichloromethane	0.44768	0.42917	0.45277	0.46246	0.47078	0.45642	AVG		0.45321		3.14144	15.00000	O
cis-1,3-dichloropropene	0.46154	0.46912	0.51024	0.52965	0.55257	0.54056	AVG		0.51061		7.40581	15.00000	O
Toluene	0.84808	0.84328	0.83629	0.82510	0.84155	0.77551	AVG		0.82830		3.26300	15.00000	O
4-methyl-2-pentanone	0.25780	0.31011	0.33323	0.32280	0.32342	0.26174	AVG		0.30152		11.00487	15.00000	O
Tetrachloroethene	0.25186	0.24707	0.24160	0.24821	0.25657	0.24433	AVG		0.24827		2.15612	15.00000	O
trans-1,3-Dichloropropene	0.35641	0.40434	0.44234	0.46434	0.48052	0.46569	AVG		0.43561		10.78859	15.00000	O
1,1,2-Trichloroethane	0.24237	0.24575	0.25185	0.25225	0.25727	0.24739	AVG		0.24948		2.14196	15.00000	O
Dibromochloromethane	0.33125	0.33355	0.34399	0.35992	0.37268	0.36521	AVG		0.35110		4.92462	15.00000	O
1,2-Dibromoethane	0.25951	0.27529	0.29079	0.29902	0.30821	0.29705	AVG		0.28831		6.18963	15.00000	O
2-Hexanone	0.19410	0.23510	0.24878	0.24944	0.25714	0.21350	AVG		0.23301		10.51204	15.00000	O
Chlorobenzene	1.02910	0.98113	0.99287	0.97261	0.97917	0.89287	AVG		0.97462		4.60027	15.00000	O
Ethylbenzene	0.53946	0.53046	0.54708	0.52878	0.54353	0.50523	AVG		0.53242		2.84106	15.00000	O

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4462
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-P
Lab File IDs : P1536.D P1535.D P1534.D **Column ID:**
P1533.D P1538.D P1537.D **Calibration Date(s):** 22-JUN-15 10:02
22-JUN-15 12:13

Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.67642	0.64943	0.68430	0.65681	0.63621	0.53007	AVG		0.63887		8.78523	15.00000	O
o-Xylene	0.60544	0.60584	0.68090	0.66227	0.66588	0.61354	AVG		0.63898		5.37314	15.00000	O
Styrene	1.01790	1.06902	1.18056	1.16717	1.14636	0.97868	AVG		1.09328		7.68530	15.00000	O
Bromoform	0.17783	0.19657	0.21366	0.22317	0.23477	0.22730	AVG		0.21222		10.07382	15.00000	O
Isopropylbenzene	3.03478	3.08062	3.25483	3.14588	3.04527	2.48623	AVG		3.00793		8.91525	15.00000	O
1,1,2,2-Tetrachloroethane	0.87382	0.86251	0.94110	0.90988	0.94434	0.83213	AVG		0.89396		5.06015	15.00000	O
1,3-Dichlorobenzene	1.66015	1.52884	1.60105	1.55868	1.55689	1.36006	AVG		1.54428		6.55229	15.00000	O
1,4-Dichlorobenzene	1.74242	1.57152	1.62025	1.57991	1.58478	1.36191	AVG		1.57680		7.79816	15.00000	O
1,2-Dichlorobenzene	1.50839	1.47291	1.56665	1.50778	1.51909	1.31309	AVG		1.48132		5.92465	15.00000	O
1,2-Dibromo-3-Chloropropane	0.13637	0.15390	0.16536	0.16795	0.18308	0.16183	AVG		0.16142		9.64315	15.00000	O
1,2,4-Trichlorobenzene	0.90323	0.88225	0.96724	0.96720	1.04527	0.94973	AVG		0.95249		6.01475	15.00000	O
Methyl Acetate	0.44194	0.50779	0.50859	0.51636	0.55423	0.50870	AVG		0.50627		7.15095	15.00000	O
Methylcyclohexane	0.99301	0.93852	0.89140	0.89861	1.04239	0.91594	AVG		0.94665		6.28261	15.00000	O
Dibromofluoromethane	0.54146	0.54917	0.54382	0.55211	0.53342	0.52500	AVG		0.54083		1.86986	15.00000	
1,2-Dichloroethane-D4	0.84986	0.79987	0.78528	0.75705	0.70335	0.66171	AVG		0.75952		8.96510	15.00000	
Toluene-D8	1.12857	1.15803	1.14527	1.12648	1.07876	0.99941	AVG		1.10608		5.31517	15.00000	
P-Bromofluorobenzene	0.54037	0.52383	0.51143	0.50027	0.47926	0.46366	AVG		0.50314		5.63594	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

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Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D
Report Date: 23-Jun-2015 11:39

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG165276-7
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Misc Info: WG165276,WG165276-4

Client SDG: WG165276
Fraction: VOA
Client Smp ID: Independent Source
Operator: EME
SampleType: INDSOURCE
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	51.4	102.84	80-120
	2 Chloromethane	50.0	57.1	114.19	80-120
	3 Vinyl chloride	50.0	54.7	109.46	80-120
	4 Bromomethane	50.0	53.3	106.52	80-120
	5 Chloroethane	50.0	63.7	127.50*	80-120
	6 Trichlorofluoromet	50.0	52.4	104.85	80-120
	7 Diethyl Ether	50.0	55.1	110.29	80-120
	8 Tertiary-butyl alc	250	225	90.12	80-120
	9 1,1-Dichloroethene	50.0	54.8	109.53	80-120
	10 Carbon Disulfide	50.0	56.4	112.76	80-120
	11 Freon-113	50.0	53.3	106.66	80-120
	12 Iodomethane	50.0	45.6	91.19	80-120
	13 Acrolein	250	280	112.03	80-120
	14 Methylene Chloride	50.0	51.9	103.83	80-120
	15 Acetone	50.0	52.2	104.38	80-120
	16 Isobutyl Alcohol	1000	964	96.36	80-120
	17 trans-1,2-Dichloro	50.0	57.4	114.70	80-120
	18 Allyl Chloride	50.0	56.0	111.99	80-120
	19 Methyl tert-butyl	100	114	114.18	80-120
	20 Acetonitrile	500	513	102.53	80-120
	21 Di-isopropyl ether	50.0	56.2	112.38	80-120
	22 Chloroprene	50.0	55.0	109.99	80-120
	23 Propionitrile	500	555	110.99	80-120
	24 Methacrylonitrile	500	552	110.32	80-120
	25 1,1-Dichloroethane	50.0	55.0	110.01	80-120
	26 Acrylonitrile	250	275	110.14	80-120
	27 Ethyl tertiary-but	50.0	56.9	113.75	80-120
	28 Vinyl Acetate	50.0	55.0	109.90	80-120
	29 cis-1,2-Dichloroet	50.0	48.8	97.63	80-120
M	30 1,2-Dichloroethyle	100	106	106.16	80-120
	31 Methyl Methacrylat	50.0	56.3	112.64	80-120
	32 2,2-Dichloropropan	50.0	53.1	106.25	80-120
	33 Bromochloromethane	50.0	52.1	104.18	80-120
	34 Chloroform	50.0	50.9	101.74	80-120
	35 Carbon Tetrachlori	50.0	51.9	103.77	80-120
	36 Tetrahydrofuran	50.0	52.9	105.89	80-120
	38 1,1,1-Trichloroeth	50.0	52.8	105.64	80-120
	39 1,1-Dichloropropen	50.0	52.8	105.72	80-120
	40 2-Butanone	50.0	50.1	100.15	80-120
	41 Benzene	50.0	51.4	102.80	80-120

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	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	49.0	98.00	80-120
	44	Ethyl Methacrylate	50.0	51.6	103.13	80-120
	46	Tertiary-amyl meth	50.0	56.6	113.21	80-120
	47	1,2-Dichloroethane	50.0	50.8	101.66	80-120
	48	Trichloroethene	50.0	50.5	101.02	80-120
	50	Dibromomethane	50.0	50.8	101.54	80-120
	51	1,2-Dichloropropan	50.0	51.4	102.77	80-120
	52	Bromodichlorometha	50.0	51.0	102.09	80-120
	53	cis-1,3-dichloropr	50.0	54.0	107.92	80-120
	54	1,4-Dioxane	1000	838	83.76	80-120
	56	2-Chloroethylvinyl	50.0	43.8	87.52	80-120
	57	Toluene	50.0	51.5	103.00	80-120
	58	4-methyl-2-pentano	50.0	54.2	108.35	80-120
	59	Tetrachloroethene	50.0	52.0	103.91	80-120
	60	trans-1,3-Dichloro	50.0	57.5	115.09	80-120
	61	1,1,2-Trichloroeth	50.0	50.8	101.67	80-120
	62	Dibromochlorometha	50.0	51.3	102.56	80-120
	63	1,3-Dichloropropan	50.0	49.1	98.19	80-120
	64	1,2-Dibromoethane	50.0	51.5	103.04	80-120
	65	2-Hexanone	50.0	53.5	107.07	80-120
	67	Chlorobenzene	50.0	51.0	101.98	80-120
	152	1-Chlorohexane	50.0	46.8	93.62	80-120
	68	Ethylbenzene	50.0	51.0	102.00	80-120
	69	1,1,1,2-Tetrachlor	50.0	52.8	105.71	80-120
M	70	Xylenes (total)	150	159	106.02	80-120
	71	m+p-Xylenes	100	106	106.27	80-120
	72	o-Xylene	50.0	52.8	105.53	80-120
	73	Styrene	50.0	54.0	107.97	80-120
	74	Bromoform	50.0	52.7	105.45	80-120
	75	Isopropylbenzene	50.0	53.9	107.85	80-120
	77	cis-1,4-Dichloro-2	50.0	49.2	98.43	80-120
	78	trans-1,4-Dichloro	50.0	54.1	108.29	80-120
	79	Bromobenzene	50.0	50.8	101.58	80-120
	80	N-Propylbenzene	50.0	55.7	111.37	80-120
	81	1,1,2,2-Tetrachlor	50.0	50.1	100.23	80-120
	82	1,3,5-Trimethylben	50.0	53.3	106.63	80-120
	83	2-Chlorotoluene	50.0	53.7	107.41	80-120
	84	1,2,3-Trichloropro	50.0	51.7	103.45	80-120
	85	4-Chlorotoluene	50.0	53.1	106.18	80-120
	86	tert-Butylbenzene	50.0	55.4	110.74	80-120
	87	Pentachloroethane	50.0	54.2	108.48	80-120
	88	1,2,4-Trimethylben	50.0	55.3	110.66	80-120
	89	P-Isopropyltoluene	50.0	53.8	107.64	80-120
	90	1,3-Dichlorobenzen	50.0	51.1	102.28	80-120
	92	1,4-Dichlorobenzen	50.0	50.5	101.04	80-120
	93	N-Butylbenzene	50.0	54.4	108.80	80-120
	94	sec-Butylbenzene	50.0	54.3	108.61	80-120
	95	1,2-Dichlorobenzen	50.0	51.7	103.42	80-120
	96	1,2-Dibromo-3-Chlo	50.0	54.6	109.25	80-120
	97	1,3,5-Trichloroben	50.0	53.0	105.99	80-120
	98	Hexachlorobutadien	50.0	52.6	105.26	80-120
	99	1,2,4-Trichloroben	50.0	51.0	101.94	80-120
	100	1,2,3-Trimethylben	50.0	54.4	108.83	80-120
	101	Naphthalene	50.0	51.3	102.70	80-120

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Report Date: 23-Jun-2015 11:39

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	52.5	104.92	80-120
103 Methyl Acetate	50.0	54.5	108.94	80-120
104 Methylcyclohexane	50.0	54.5	108.95	80-120
M 153 Total Alkylbenzene	350	382	109.21	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	48.2	96.44	68-128
$ 45 1,2-Dichloroethane	50.0	45.8	91.66	67-135
$ 55 Toluene-D8	50.0	50.7	101.48	65-128
$ 76 P-Bromofluorobenze	50.0	49.1	98.15	56-133

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Report Date: 23-Jun-2015 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1533.D
Lab Smp Id: WG165276-4 Client Smp ID: Initial Calibration
Inj Date : 22-JUN-2015 10:02
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165276-4
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Meth Date : 22-Jun-2015 12:37 rcrocker Quant Type: ISTD
Cal Date : 22-JUN-2015 10:02 Cal File: P1533.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.187	2.187	(0.251)	281869	50.0000	50.0	
2 Chloromethane	50	2.437	2.437	(0.280)	395042	50.0000	50.0	
3 Vinyl chloride	62	2.516	2.516	(0.289)	297426	50.0000	50.0	
4 Bromomethane	94	2.909	2.909	(0.334)	141413	50.0000	50.0	
5 Chloroethane	64	3.066	3.067	(0.352)	235608	50.0000	50.0	
6 Trichlorofluoromethane	101	3.231	3.231	(0.371)	391539	50.0000	50.0	
7 Diethyl Ether	59	3.617	3.617	(0.415)	255566	50.0000	50.0	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.609)	78420	250.000	250	
9 1,1-Dichloroethene	96	3.888	3.889	(0.446)	212155	50.0000	50.0	
10 Carbon Disulfide	76	3.953	3.953	(0.454)	805450	50.0000	50.0	
11 Freon-113	151	3.939	3.939	(0.452)	129621	50.0000	50.0	
12 Iodomethane	142	4.110	4.111	(0.472)	168828	50.0000	50.0	
13 Acrolein	56	4.368	4.368	(0.501)	292591	250.000	250	
14 Methylene Chloride	84	4.732	4.733	(0.543)	287284	50.0000	50.0	
15 Acetone	43	4.804	4.804	(0.551)	477742	250.000	250	
16 Isobutyl Alcohol	43	8.965	8.966	(1.029)	143020	1000.00	1000	
17 trans-1,2-Dichloroethene	96	4.982	4.983	(0.572)	229915	50.0000	50.0	
18 Allyl Chloride	41	4.568	4.568	(0.524)	369316	50.0000	50.0	
19 Methyl tert-butyl ether	73	5.147	5.147	(0.591)	1497446	100.000	100	
20 Acetonitrile	39	5.597	5.598	(0.642)	78780	500.000	500	
21 Di-isopropyl ether	45	5.826	5.827	(0.669)	913929	50.0000	50.0	
22 Chloroprene	53	6.026	6.027	(0.692)	443673	50.0000	50.0	
23 Propionitrile	54	8.622	8.622	(0.989)	382031	500.000	500	
24 Methacrylonitrile	41	8.650	8.651	(0.993)	1592860	500.000	500	

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Report Date: 23-Jun-2015 07:52

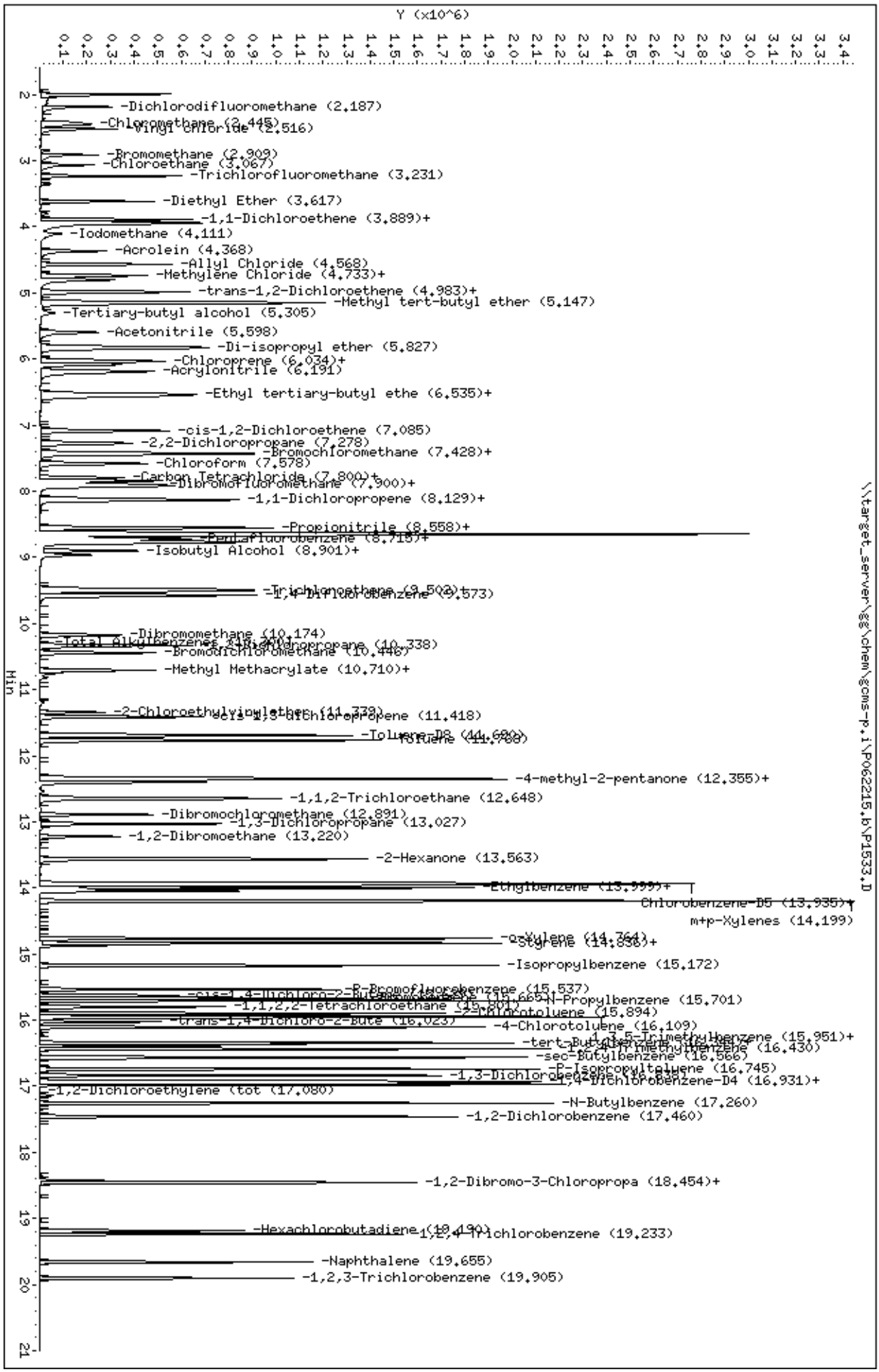
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	433133	50.0000	50.0	
	26 Acrylonitrile	52	6.191	6.191	(0.710)	475700	250.000	250	
	27 Ethyl tertiary-butyl ether	59	6.534	6.535	(0.750)	806339	50.0000	50.0	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	666813	50.0000	50.0	
	29 cis-1,2-Dichloroethene	96	7.085	7.085	(0.813)	271315	50.0000	50.0	
	31 Methyl Methacrylate	41	10.710	10.710	(1.119)	241743	50.0000	50.0	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.835)	325073	50.0000	50.0	
	33 Bromochloromethane	128	7.435	7.435	(0.853)	110287	50.0000	50.0	
	34 Chloroform	83	7.578	7.578	(0.870)	444561	50.0000	50.0	
	35 Carbon Tetrachloride	117	7.800	7.800	(0.815)	276337	50.0000	50.0	
	36 Tetrahydrofuran	42	7.842	7.843	(0.900)	368888	250.000	250	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	225974	50.0000	50.0	
	38 1,1,1-Trichloroethane	97	7.921	7.922	(0.909)	378591	50.0000	50.0	
	39 1,1-Dichloropropene	75	8.136	8.135	(0.850)	332354	50.0000	50.0	
	40 2-Butanone	43	8.114	8.115	(0.931)	593431	250.000	250	
	41 Benzene	78	8.557	8.558	(0.894)	972132	50.0000	50.0	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	409293	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	395242	50.0000	50.0	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.119)	184665	50.0000	50.0	
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.008)	309856	50.0000	50.0	
	46 Tertiary-amyl methyl ether	73	8.765	8.765	(1.006)	660201	50.0000	50.0	
	47 1,2-Dichloroethane	62	8.894	8.894	(0.929)	360852	50.0000	50.0	
	48 Trichloroethene	95	9.508	9.509	(0.993)	241827	50.0000	50.0	
*	49 1,4-Difluorobenzene	114	9.573	9.573	(1.000)	766451	50.0000		
	50 Dibromomethane	93	10.173	10.174	(1.063)	145717	50.0000	50.0	
	51 1,2-Dichloropropane	63	10.338	10.338	(1.080)	245521	50.0000	50.0	
	52 Bromodichloromethane	83	10.445	10.446	(1.091)	354455	50.0000	50.0	
	53 cis-1,3-dichloropropene	75	11.418	11.418	(1.193)	405948	50.0000	50.0	
	54 1,4-Dioxane	88	10.753	10.753	(1.123)	42906	1000.00	1000	
$	55 Toluene-D8	98	11.689	11.690	(1.221)	863388	50.0000	50.0	
	56 2-Chloroethylvinylether	63	11.339	11.339	(1.184)	117276	50.0000	50.0	
	57 Toluene	92	11.768	11.768	(1.229)	632395	50.0000	50.0	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.291)	1237050	250.000	250	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	173632	50.0000	50.0	
	60 trans-1,3-Dichloropropene	75	12.404	12.405	(1.296)	355893	50.0000	50.0	
	61 1,1,2-Trichloroethane	83	12.633	12.634	(1.320)	193341	50.0000	50.0	
	62 Dibromochloromethane	129	12.890	12.891	(0.925)	251777	50.0000	50.0	
	63 1,3-Dichloropropane	76	13.026	13.027	(0.935)	430697	50.0000	50.0	
	64 1,2-Dibromoethane	107	13.219	13.220	(1.381)	229185	50.0000	50.0	
	65 2-Hexanone	43	13.563	13.563	(0.973)	872456	250.000	250	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	699533	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	680372	50.0000	50.0	
	152 1-Chlorohexane	91	13.934	13.935	(1.000)	357046	50.0000	50.0	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	369897	50.0000	50.0	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	239044	50.0000	50.0	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	918927	100.000	100	
	72 o-Xylene	106	14.764	14.764	(1.060)	463281	50.0000	50.0	
	73 Styrene	104	14.835	14.836	(1.065)	816471	50.0000	50.0	
	74 Bromoform	173	14.871	14.872	(1.067)	156115	50.0000	50.0	
	75 Isopropylbenzene	105	15.171	15.172	(0.896)	1185687	50.0000	50.0	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.623)	383433	50.0000	50.0	
	77 cis-1,4-Dichloro-2-Butene	53	15.622	15.622	(0.923)	124430	50.0000	50.0	
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	98247	50.0000	50.0	
	79 Bromobenzene	156	15.665	15.665	(0.926)	290622	50.0000	50.0	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1533.D
Report Date: 23-Jun-2015 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	15.700	15.701	(0.928)	1441350	50.0000	50.0	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	342937	50.0000	50.0	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	1067258	50.0000	50.0	
	83 2-Chlorotoluene	91	15.894	15.894	(0.939)	896692	50.0000	50.0	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	259880	50.0000	50.0	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	946494	50.0000	50.0	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	946986	50.0000	50.0	
	87 Pentachloroethane	117	16.373	16.373	(0.967)	214912	50.0000	50.0	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	1066927	50.0000	50.0	
	89 P-Isopropyltoluene	119	16.744	16.745	(0.989)	1131704	50.0000	50.0	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	587470	50.0000	50.0	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	376902	50.0000		
	92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	595472	50.0000	50.0	
	93 N-Butylbenzene	91	17.259	17.260	(1.020)	1076974	50.0000	50.0	
	94 sec-Butylbenzene	105	16.566	16.565	(0.979)	1277645	50.0000	50.0	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.032)	568285	50.0000	50.0	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	63301	50.0000	50.0	
	97 1,3,5-Trichlorobenzene	180	18.460	18.461	(1.091)	399718	50.0000	50.0	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	127564	50.0000	50.0	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	364541	50.0000	50.0	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	1114076	50.0000	50.0	
	101 Naphthalene	128	19.654	19.655	(1.161)	807173	50.0000	50.0	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	283098	50.0000	50.0	
	103 Methyl Acetate	43	4.997	4.997	(0.573)	211342	50.0000	50.0	
	104 Methylcyclohexane	83	9.480	9.480	(1.088)	367795	50.0000	50.0	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1533.D
Date : 22-JUN-2015 10:02
Client ID: Initial Calibration
Sample Info: WG165276-4
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



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Report Date: 23-Jun-2015 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1534.D
Lab Smp Id: WG165276-3 Client Smp ID: Initial Calibration
Inj Date : 22-JUN-2015 10:29
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165276-3
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Meth Date : 22-Jun-2015 12:37 rcrocker Quant Type: ISTD
Cal Date : 22-JUN-2015 10:29 Cal File: P1534.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.187	2.187	(0.251)	108636	20.0000	19.3	
2 Chloromethane	50	2.430	2.437	(0.279)	151869	20.0000	19.0	
3 Vinyl chloride	62	2.516	2.516	(0.289)	115343	20.0000	19.8	
4 Bromomethane	94	2.917	2.909	(0.334)	50033	20.0000	20.3	
5 Chloroethane	64	3.067	3.067	(0.352)	93465	20.0000	20.3	
6 Trichlorofluoromethane	101	3.231	3.231	(0.370)	149626	20.0000	19.0	
7 Diethyl Ether	59	3.617	3.617	(0.415)	99766	20.0000	21.0	
8 Tertiary-butyl alcohol	59	5.305	5.305	(0.608)	32998	100.000	113	
9 1,1-Dichloroethene	96	3.896	3.889	(0.447)	84151	20.0000	20.2	
10 Carbon Disulfide	76	3.946	3.953	(0.452)	302682	20.0000	19.6	
11 Freon-113	151	3.939	3.939	(0.452)	51674	20.0000	19.4	
12 Iodomethane	142	4.111	4.111	(0.471)	59948	20.0000	20.6	
13 Acrolein	56	4.368	4.368	(0.501)	109846	100.000	105	
14 Methylene Chloride	84	4.740	4.733	(0.543)	122218	20.0000	17.4	
15 Acetone	43	4.804	4.804	(0.551)	188866	100.000	100	
16 Isobutyl Alcohol	43	8.966	8.966	(1.028)	63536	400.000	464	
17 trans-1,2-Dichloroethene	96	4.983	4.983	(0.571)	89040	20.0000	19.7	
18 Allyl Chloride	41	4.568	4.568	(0.524)	138264	20.0000	20.9	
19 Methyl tert-butyl ether	73	5.155	5.147	(0.591)	599043	40.0000	42.3	
20 Acetonitrile	39	5.598	5.598	(0.642)	32691	200.000	208	
21 Di-isopropyl ether	45	5.834	5.827	(0.669)	373930	20.0000	21.6	
22 Chloroprene	53	6.034	6.027	(0.692)	174536	20.0000	20.6	
23 Propionitrile	54	8.623	8.622	(0.989)	158790	200.000	214	
24 Methacrylonitrile	41	8.651	8.651	(0.992)	707436	200.000	218	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1534.D
Report Date: 23-Jun-2015 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	177159	20.0000	20.1	
	26 Acrylonitrile	52	6.191	6.191	(0.710)	194772	100.000	109	
	27 Ethyl tertiary-butyl ether	59	6.542	6.535	(0.750)	330958	20.0000	22.0	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	274629	20.0000	21.7	
	29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.813)	112503	20.0000	20.4	
	31 Methyl Methacrylate	41	10.710	10.710	(1.118)	95889	20.0000	21.8	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.834)	125160	20.0000	19.6	
	33 Bromochloromethane	128	7.443	7.435	(0.853)	44411	20.0000	20.5	
	34 Chloroform	83	7.586	7.578	(0.870)	180678	20.0000	19.9	
	35 Carbon Tetrachloride	117	7.800	7.800	(0.814)	106668	20.0000	19.8	
	36 Tetrahydrofuran	42	7.850	7.843	(0.900)	151198	100.000	103	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	90509	20.0000	19.9	
	38 1,1,1-Trichloroethane	97	7.929	7.922	(0.909)	150351	20.0000	20.2	
	39 1,1-Dichloropropene	75	8.136	8.135	(0.849)	136631	20.0000	20.2	
	40 2-Butanone	43	8.122	8.115	(0.931)	249291	100.000	105	
	41 Benzene	78	8.558	8.558	(0.893)	403193	20.0000	20.1	
*	42 Pentafluorobenzene	168	8.723	8.715	(1.000)	416082	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	158518	20.0000	19.8	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.118)	73722	20.0000	22.6	
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	130696	20.0000	19.7	
	46 Tertiary-amyl methyl ether	73	8.766	8.765	(1.005)	268557	20.0000	21.5	
	47 1,2-Dichloroethane	62	8.901	8.894	(0.929)	150319	20.0000	20.2	
	48 Trichloroethene	95	9.509	9.509	(0.993)	99921	20.0000	19.6	
*	49 1,4-Difluorobenzene	114	9.581	9.573	(1.000)	780904	50.0000		
	50 Dibromomethane	93	10.174	10.174	(1.062)	56693	20.0000	19.3	
	51 1,2-Dichloropropane	63	10.339	10.338	(1.079)	97075	20.0000	19.6	
	52 Bromodichloromethane	83	10.446	10.446	(1.090)	141429	20.0000	20.2	
	53 cis-1,3-dichloropropene	75	11.418	11.418	(1.192)	159379	20.0000	20.7	
	54 1,4-Dioxane	88	10.760	10.753	(1.123)	24269	400.000	319	
$	55 Toluene-D8	98	11.690	11.690	(1.220)	357737	20.0000	20.1	
	56 2-Chloroethylvinylether	63	11.347	11.339	(1.184)	51196	20.0000	20.7	
	57 Toluene	92	11.769	11.768	(1.228)	261226	20.0000	20.0	
	58 4-methyl-2-pentanone	43	12.355	12.355	(1.290)	520441	100.000	109	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	69348	20.0000	19.5	
	60 trans-1,3-Dichloropropene	75	12.405	12.405	(1.295)	138171	20.0000	21.2	
	61 1,1,2-Trichloroethane	83	12.641	12.634	(1.319)	78669	20.0000	20.3	
	62 Dibromochloromethane	129	12.891	12.891	(0.925)	98739	20.0000	20.1	
	63 1,3-Dichloropropane	76	13.034	13.027	(0.935)	178805	20.0000	20.0	
	64 1,2-Dibromoethane	107	13.220	13.220	(1.380)	90833	20.0000	20.7	
	65 2-Hexanone	43	13.563	13.563	(0.973)	357052	100.000	107	
*	66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	717604	50.0000		
	67 Chlorobenzene	112	13.957	13.956	(1.002)	284994	20.0000	20.0	
	152 1-Chlorohexane	91	13.935	13.935	(1.000)	148186	20.0000	18.7	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	157034	20.0000	20.4	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	97937	20.0000	21.6	
	71 m+p-Xylenes	106	14.200	14.199	(1.019)	392843	40.0000	41.0	
	72 o-Xylene	106	14.764	14.764	(1.060)	195448	20.0000	21.3	
	73 Styrene	104	14.836	14.836	(1.065)	338870	20.0000	21.3	
	74 Bromoform	173	14.865	14.872	(1.067)	61330	20.0000	21.1	
	75 Isopropylbenzene	105	15.172	15.172	(0.896)	503927	20.0000	20.8	
$	76 P-Bromofluorobenzene	95	15.537	15.537	(1.622)	159750	20.0000	19.7	
	77 cis-1,4-Dichloro-2-Butene	53	15.630	15.622	(0.924)	47909	20.0000	22.2	
	78 trans-1,4-Dichloro-2-Butene	53	16.023	16.023	(0.947)	39818	20.0000	21.8	
	79 Bromobenzene	156	15.665	15.665	(0.926)	119338	20.0000	20.4(M)	M6

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12:18 pm, Jul 07, 2015

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1534.D
Report Date: 23-Jun-2015 07:52

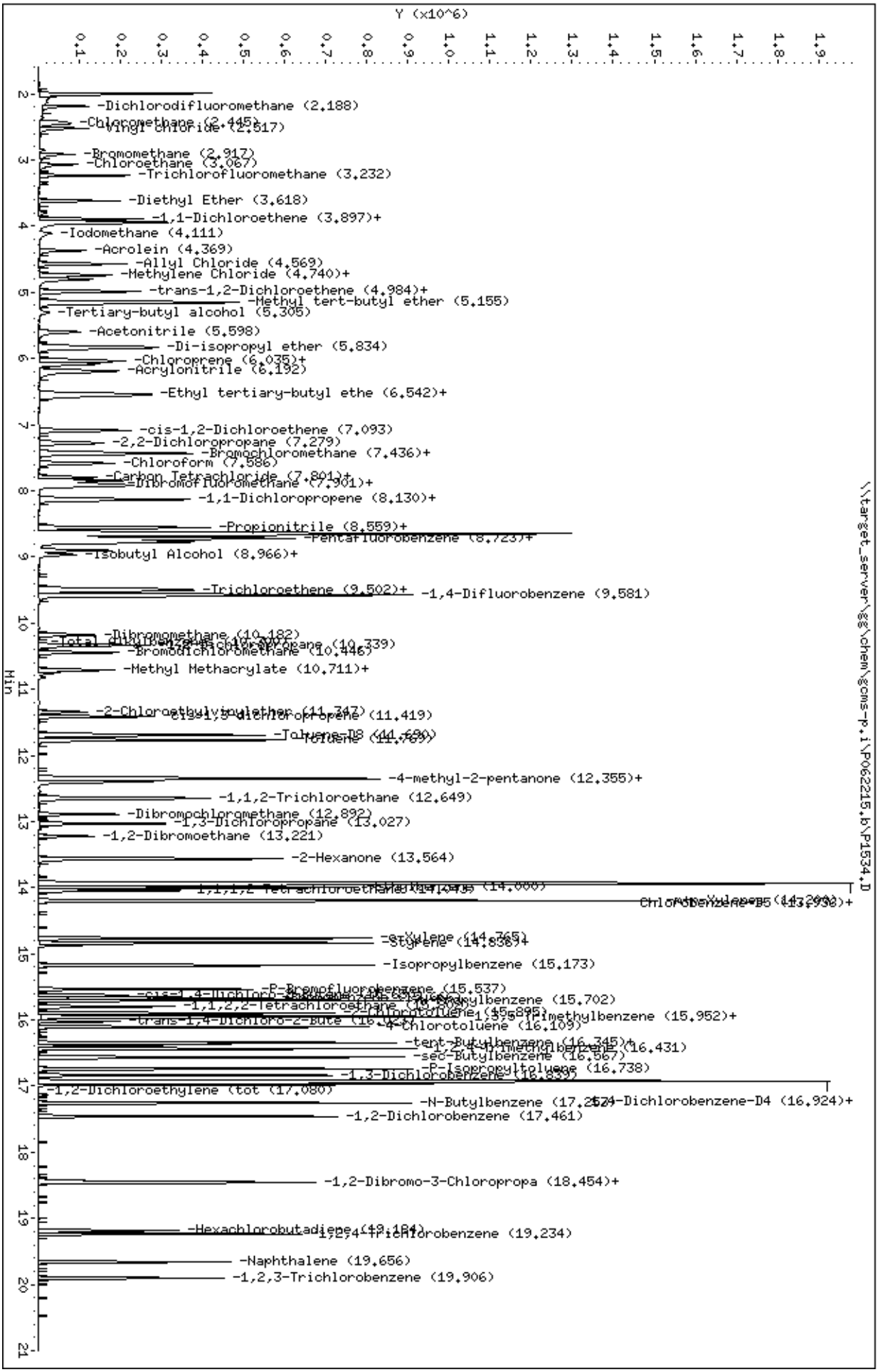
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	611935	20.0000	20.7	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	145705	20.0000	21.0	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	455541	20.0000	21.3	
	83 2-Chlorotoluene	91	15.894	15.894	(0.939)	379843	20.0000	20.5	
	84 1,2,3-Trichloropropane	75	15.966	15.966	(0.943)	113156	20.0000	21.1	
	85 4-Chlorotoluene	91	16.109	16.109	(0.952)	408831	20.0000	20.8	
	86 tert-Butylbenzene	119	16.345	16.344	(0.966)	434454	20.0000	21.6	
	87 Pentachloroethane	117	16.373	16.373	(0.967)	84745	20.0000	21.8	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	453777	20.0000	21.3	
	89 P-Isopropyltoluene	119	16.745	16.745	(0.989)	487346	20.0000	20.9	
	90 1,3-Dichlorobenzene	146	16.838	16.838	(0.995)	247881	20.0000	20.2	
*	91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	387061	50.0000		
	92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	250855	20.0000	19.9	
	93 N-Butylbenzene	91	17.260	17.260	(1.020)	463303	20.0000	21.0	
	94 sec-Butylbenzene	105	16.566	16.565	(0.979)	552768	20.0000	20.4	
	95 1,2-Dichlorobenzene	146	17.460	17.460	(1.032)	242555	20.0000	20.7	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	25601	20.0000	21.2	
	97 1,3,5-Trichlorobenzene	180	18.461	18.461	(1.091)	166356	20.0000	21.4	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	50980	20.0000	21.1	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	149753	20.0000	20.8	
	100 1,2,3-Trimethylbenzene	105	16.974	16.974	(1.003)	477001	20.0000	21.2	
	101 Naphthalene	128	19.655	19.655	(1.161)	325430	20.0000	23.1	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	115552	20.0000	20.6	
	103 Methyl Acetate	43	4.997	4.997	(0.573)	84646	20.0000	20.6	
	104 Methylcyclohexane	83	9.488	9.480	(1.088)	148358	20.0000	19.2	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1534.D
Date : 22-JUN-2015 10:29
Client ID: Initial Calibration
Sample Info: WG165276-3
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1535.D
Report Date: 23-Jun-2015 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1535.D
Lab Smp Id: WG165276-2 Client Smp ID: Initial Calibration
Inj Date : 22-JUN-2015 10:55
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165276-2
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Meth Date : 22-Jun-2015 12:37 rcrocker Quant Type: ISTD
Cal Date : 22-JUN-2015 10:55 Cal File: P1535.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.187	2.187	(0.251)	27501	5.00000	4.8	
2 Chloromethane	50	2.437	2.437	(0.279)	38802	5.00000	4.8	
3 Vinyl chloride	62	2.523	2.516	(0.289)	29654	5.00000	5.0	
4 Bromomethane	94	2.916	2.909	(0.334)	12281	5.00000	4.9(M)	M9
5 Chloroethane	64	3.066	3.067	(0.352)	22347	5.00000	4.8	
6 Trichlorofluoromethane	101	3.231	3.231	(0.370)	37407	5.00000	4.6	
7 Diethyl Ether	59	3.617	3.617	(0.415)	23445	5.00000	4.8	
8 Tertiary-butyl alcohol	59	5.311	5.305	(0.609)	8378	25.0000	28.2	
9 1,1-Dichloroethene	96	3.896	3.889	(0.447)	21105	5.00000	5.0	
10 Carbon Disulfide	76	3.946	3.953	(0.452)	72282	5.00000	4.6	
11 Freon-113	151	3.931	3.939	(0.451)	13256	5.00000	4.9	
12 Iodomethane	142	4.110	4.111	(0.471)	12429	5.00000	4.2	
13 Acrolein	56	4.368	4.368	(0.501)	26208	25.0000	24.5	
14 Methylene Chloride	84	4.739	4.733	(0.543)	31973	5.00000	4.4(a)	
15 Acetone	43	4.804	4.804	(0.551)	47296	25.0000	24.6	
16 Isobutyl Alcohol	43	8.972	8.966	(1.029)	14215	100.000	102	
17 trans-1,2-Dichloroethene	96	4.982	4.983	(0.571)	22465	5.00000	4.9	
18 Allyl Chloride	41	4.568	4.568	(0.524)	34138	5.00000	5.0	
19 Methyl tert-butyl ether	73	5.154	5.147	(0.591)	142910	10.0000	9.9	
20 Acetonitrile	39	5.605	5.598	(0.643)	7471	50.0000	46.7	
21 Di-isopropyl ether	45	5.833	5.827	(0.669)	86651	5.00000	4.9	
22 Chloroprene	53	6.034	6.027	(0.692)	44260	5.00000	5.1	
23 Propionitrile	54	8.622	8.622	(0.989)	38859	50.0000	51.3	
24 Methacrylonitrile	41	8.651	8.651	(0.992)	174220	50.0000	52.6	

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12:19 pm, Jul 07, 2015

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1535.D
Report Date: 23-Jun-2015 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	44586	5.00000	5.0	
	26 Acrylonitrile	52	6.191	6.191	(0.710)	47637	25.0000	26.1	
	27 Ethyl tertiary-butyl ether	59	6.541	6.535	(0.750)	76054	5.00000	5.0	
	28 Vinyl Acetate	43	6.577	6.570	(0.687)	62305	5.00000	4.9	
	29 cis-1,2-Dichloroethene	96	7.085	7.085	(0.812)	27165	5.00000	4.8	
M	30 1,2-Dichloroethylene (total)	96				49630	5.00000	(a)	
	31 Methyl Methacrylate	41	10.710	10.710	(1.118)	21698	5.00000	4.9	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.834)	32450	5.00000	5.0	
	33 Bromochloromethane	128	7.442	7.435	(0.853)	11020	5.00000	5.0	
	34 Chloroform	83	7.578	7.578	(0.869)	44700	5.00000	4.8	
	35 Carbon Tetrachloride	117	7.800	7.800	(0.814)	27362	5.00000	5.0	
	36 Tetrahydrofuran	42	7.857	7.843	(0.901)	37141	25.0000	24.8	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	23309	5.00000	5.0	
	38 1,1,1-Trichloroethane	97	7.928	7.922	(0.909)	36809	5.00000	4.8	
	39 1,1-Dichloropropene	75	8.136	8.135	(0.849)	33576	5.00000	4.9	
	40 2-Butanone	43	8.121	8.115	(0.931)	62234	25.0000	25.8	
	41 Benzene	78	8.558	8.558	(0.893)	100368	5.00000	5.0	
*	42 Pentafluorobenzene	168	8.722	8.715	(1.000)	424444	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	40255	5.00000	4.9	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.118)	16016	5.00000	4.9	
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.007)	33950	5.00000	5.0	
	46 Tertiary-amyl methyl ether	73	8.772	8.765	(1.006)	63281	5.00000	5.0	
	47 1,2-Dichloroethane	62	8.901	8.894	(0.929)	36547	5.00000	4.9	
	48 Trichloroethene	95	9.516	9.509	(0.993)	25470	5.00000	5.0	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	787504	50.0000		
	50 Dibromomethane	93	10.173	10.174	(1.062)	14702	5.00000	5.0	
	51 1,2-Dichloropropane	63	10.338	10.338	(1.079)	24083	5.00000	4.8	
	52 Bromodichloromethane	83	10.445	10.446	(1.090)	33797	5.00000	4.8	
	53 cis-1,3-dichloropropene	75	11.418	11.418	(1.192)	36943	5.00000	4.8	
	54 1,4-Dioxane	88	10.760	10.753	(1.123)	8717	100.000	114	
$	55 Toluene-D8	98	11.689	11.690	(1.220)	91195	5.00000	5.1	
	56 2-Chloroethylvinylether	63	11.339	11.339	(1.184)	13866	5.00000	5.6	
	57 Toluene	92	11.768	11.768	(1.228)	66409	5.00000	5.0	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.290)	122107	25.0000	25.3	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	17849	5.00000	5.0	
	60 trans-1,3-Dichloropropene	75	12.404	12.405	(1.295)	31842	5.00000	4.8	
	61 1,1,2-Trichloroethane	83	12.633	12.634	(1.319)	19353	5.00000	5.0	
	62 Dibromochloromethane	129	12.891	12.891	(0.925)	24097	5.00000	4.9	
	63 1,3-Dichloropropane	76	13.034	13.027	(0.935)	43986	5.00000	4.9	
	64 1,2-Dibromoethane	107	13.219	13.220	(1.380)	21679	5.00000	4.9	
	65 2-Hexanone	43	13.563	13.563	(0.973)	84923	25.0000	25.4	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	722431	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	70880	5.00000	4.9	
	152 1-Chlorohexane	91	13.934	13.935	(1.000)	37866	5.00000	4.7	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	38322	5.00000	4.9	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	22400	5.00000	4.9	
M	70 Xylenes (total)	106				137601	15.0000	(a)	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	93833	10.0000	9.7	
	72 o-Xylene	106	14.764	14.764	(1.060)	43768	5.00000	4.7	
	73 Styrene	104	14.835	14.836	(1.065)	77229	5.00000	4.8	
	74 Bromoform	173	14.864	14.872	(1.067)	14201	5.00000	4.8	
	75 Isopropylbenzene	105	15.171	15.172	(0.896)	122180	5.00000	4.9	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	41252	5.00000	5.0	
	77 cis-1,4-Dichloro-2-Butene	53	15.622	15.622	(0.923)	11101	5.00000	5.0	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1535.D
Report Date: 23-Jun-2015 07:52

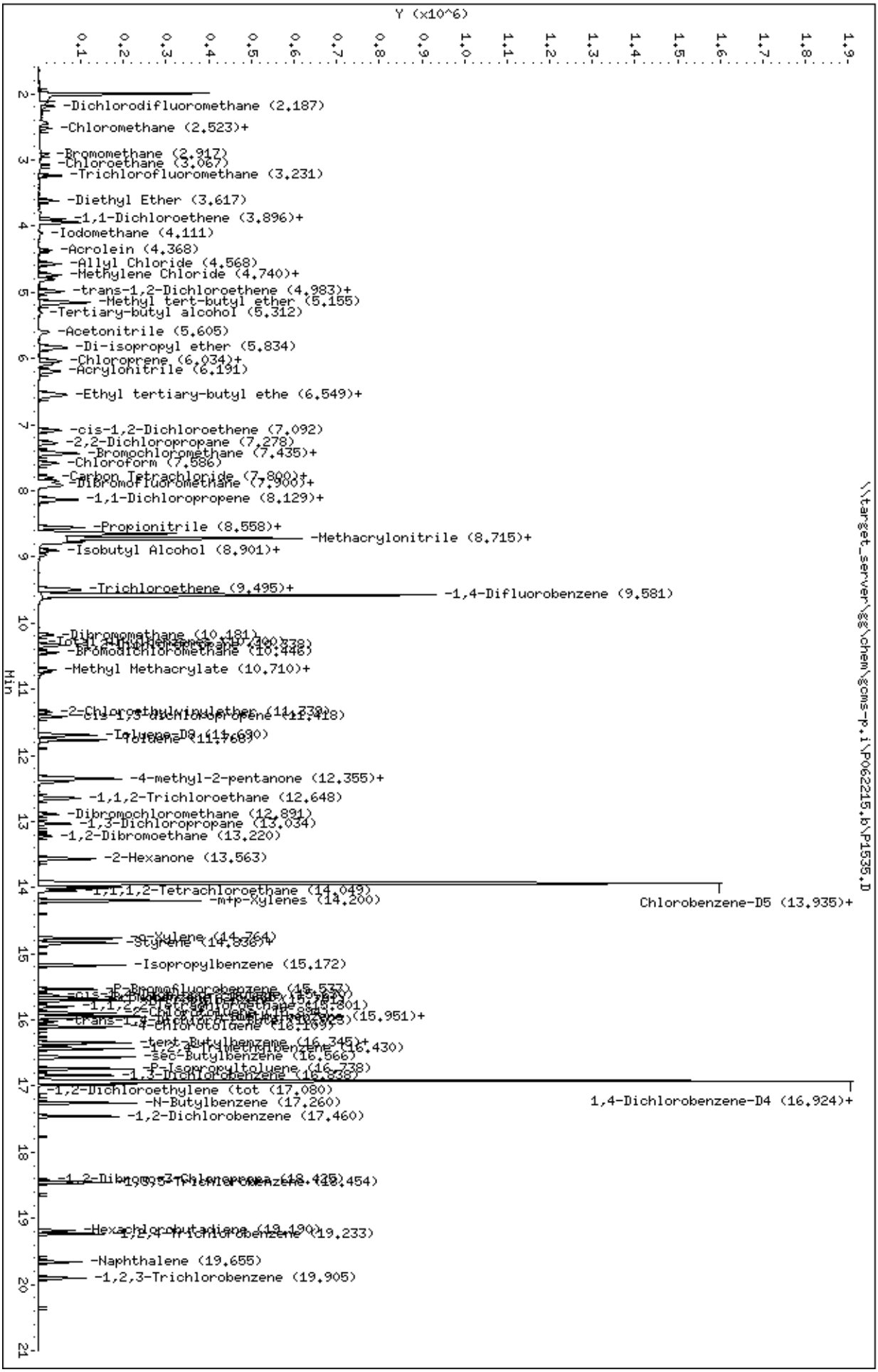
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	9009	5.00000	4.8	
	79 Bromobenzene	156	15.665	15.665	(0.926)	28135	5.00000	4.7	
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	150119	5.00000	4.9	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	34208	5.00000	4.8	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	107378	5.00000	4.9	
	83 2-Chlorotoluene	91	15.894	15.894	(0.939)	94279	5.00000	5.0	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	27236	5.00000	5.0	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	99539	5.00000	5.0	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	104930	5.00000	5.1	
	87 Pentachloroethane	117	16.373	16.373	(0.967)	19229	5.00000	4.8	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	108526	5.00000	5.0	
	89 P-Isopropyltoluene	119	16.737	16.745	(0.989)	117689	5.00000	4.9	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	60635	5.00000	4.8	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	396609	50.0000		
	92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	62328	5.00000	4.8	
	93 N-Butylbenzene	91	17.259	17.260	(1.020)	111947	5.00000	4.9	
	94 sec-Butylbenzene	105	16.566	16.565	(0.979)	139541	5.00000	5.0	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.032)	58417	5.00000	4.9	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	6104	5.00000	4.9	
	97 1,3,5-Trichlorobenzene	180	18.460	18.461	(1.091)	38577	5.00000	4.8	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	12467	5.00000	5.0	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	34991	5.00000	4.7	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	118098	5.00000	5.1	
	101 Naphthalene	128	19.655	19.655	(1.161)	69117	5.00000	4.8	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	28421	5.00000	4.9	
	103 Methyl Acetate	43	5.004	4.997	(0.574)	21553	5.00000	5.1	
	104 Methylcyclohexane	83	9.487	9.480	(1.088)	39835	5.00000	5.0	
M	153 Total Alkylbenzenes	100				840130	5.00000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1535.D
Date : 22-JUN-2015 10:55
Client ID: Initial Calibration
Sample Info: WG165276-2
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1536.D
Report Date: 23-Jun-2015 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1536.D
Lab Smp Id: WG165276-1 Client Smp ID: Initial Calibration
Inj Date : 22-JUN-2015 11:21
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165276-1
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Meth Date : 22-Jun-2015 12:37 rcrocker Quant Type: ISTD
Cal Date : 22-JUN-2015 11:21 Cal File: P1536.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.187	2.187	(0.251)	6221	1.00000	1.1	
2 Chloromethane	50	2.430	2.437	(0.279)	9105	1.00000	1.1(M)	M9
3 Vinyl chloride	62	2.516	2.516	(0.288)	5845	1.00000	0.97(a)	
4 Bromomethane	94	2.909	2.909	(0.334)	2161	1.00000	0.84(a)	
5 Chloroethane	64	3.066	3.067	(0.352)	4765	1.00000	1.00	
6 Trichlorofluoromethane	101	3.231	3.231	(0.370)	9120	1.00000	1.1	
7 Diethyl Ether	59	3.610	3.617	(0.414)	4364	1.00000	0.88(a)	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.608)	970	5.00000	3.2(a)	
9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	4181	1.00000	0.96(a)	
10 Carbon Disulfide	76	3.946	3.953	(0.452)	16556	1.00000	1.0	
11 Freon-113	151	3.939	3.939	(0.452)	2919	1.00000	1.0	
12 Iodomethane	142	4.103	4.111	(0.470)	2858	1.00000	0.95(aM)	M6
13 Acrolein	56	4.361	4.368	(0.500)	4552	5.00000	4.2(a)	
14 Methylene Chloride	84	4.740	4.733	(0.543)	10315	1.00000	1.4(a)	
15 Acetone	43	4.804	4.804	(0.551)	9661	5.00000	4.9(a)	
16 Isobutyl Alcohol	43	8.973	8.966	(1.029)	2155	20.0000	15.2(a)	
17 trans-1,2-Dichloroethene	96	4.983	4.983	(0.571)	4696	1.00000	1.0	
18 Allyl Chloride	41	4.568	4.568	(0.524)	5553	1.00000	0.81(a)	
19 Methyl tert-butyl ether	73	5.154	5.147	(0.591)	25910	2.00000	1.8	
20 Acetonitrile	39	5.605	5.598	(0.643)	1632	10.0000	10.0(a)	
21 Di-isopropyl ether	45	5.834	5.827	(0.669)	15537	1.00000	0.86(a)	
22 Chloroprene	53	6.041	6.027	(0.693)	7677	1.00000	0.87(a)	
23 Propionitrile	54	8.622	8.622	(0.989)	6636	10.0000	8.6(a)	
24 Methacrylonitrile	41	8.658	8.651	(0.993)	29051	10.0000	8.6(a)	

REC
12:19 pm, Jul 07, 2015

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1536.D
Report Date: 23-Jun-2015 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	9243	1.00000	1.0	
	26 Acrylonitrile	52	6.198	6.191	(0.711)	7269	5.00000	3.9(a)	
	27 Ethyl tertiary-butyl ether	59	6.549	6.535	(0.751)	12707	1.00000	0.81(a)	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	11416	1.00000	0.87(a)	
	29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.813)	5803	1.00000	1.0	
M	30 1,2-Dichloroethylene (total)	96				10499	1.00000	(a)	
	31 Methyl Methacrylate	41	10.710	10.710	(1.118)	3676	1.00000	0.81(a)	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.834)	6576	1.00000	0.99(a)	
	33 Bromochloromethane	128	7.442	7.435	(0.853)	2127	1.00000	0.94(a)	
	34 Chloroform	83	7.585	7.578	(0.870)	9805	1.00000	1.0	
	35 Carbon Tetrachloride	117	7.793	7.800	(0.813)	5329	1.00000	0.96(a)	
	36 Tetrahydrofuran	42	7.857	7.843	(0.901)	7318	5.00000	4.8(a)	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	4679	1.00000	0.99(a)	
	38 1,1,1-Trichloroethane	97	7.914	7.922	(0.907)	7564	1.00000	0.98(a)	
	39 1,1-Dichloropropene	75	8.129	8.135	(0.849)	7084	1.00000	1.0	
	40 2-Butanone	43	8.122	8.115	(0.931)	10992	5.00000	4.5(a)	
	41 Benzene	78	8.558	8.558	(0.893)	20999	1.00000	1.0	
*	42 Pentafluorobenzene	168	8.722	8.715	(1.000)	432069	50.0000		
	43 Cyclohexane	56	7.442	7.428	(0.853)	8491	1.00000	1.0(M)	M9
	44 Ethyl Methacrylate	69	10.710	10.710	(1.118)	2510	1.00000	0.74(a)	
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	7344	1.00000	1.1	
	46 Tertiary-amyl methyl ether	73	8.772	8.765	(1.006)	11026	1.00000	0.85(a)	
	47 1,2-Dichloroethane	62	8.901	8.894	(0.929)	7939	1.00000	1.0	
	48 Trichloroethene	95	9.509	9.509	(0.993)	5549	1.00000	1.0	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	808057	50.0000		
	50 Dibromomethane	93	10.181	10.174	(1.063)	3130	1.00000	1.0	
	51 1,2-Dichloropropane	63	10.338	10.338	(1.079)	5327	1.00000	1.0(M)	M6
	52 Bromodichloromethane	83	10.445	10.446	(1.090)	7235	1.00000	1.00(M)	M6
	53 cis-1,3-dichloropropene	75	11.418	11.418	(1.192)	7459	1.00000	0.94(a)	
	54 1,4-Dioxane	88	10.767	10.753	(1.124)	2346	20.0000	29.8	
$	55 Toluene-D8	98	11.697	11.690	(1.221)	18239	1.00000	0.99(a)	
	56 2-Chloroethylvinylether	63	11.346	11.339	(1.184)	2251	1.00000	0.88(a)	
	57 Toluene	92	11.768	11.768	(1.228)	13706	1.00000	1.0	
	58 4-methyl-2-pentanone	43	12.355	12.355	(1.290)	20832	5.00000	4.2(a)	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	3756	1.00000	1.0	
	60 trans-1,3-Dichloropropene	75	12.405	12.405	(1.295)	5760	1.00000	0.85(a)	
	61 1,1,2-Trichloroethane	83	12.641	12.634	(1.319)	3917	1.00000	0.98(a)	
	62 Dibromochloromethane	129	12.884	12.891	(0.925)	4940	1.00000	0.97(a)	
	63 1,3-Dichloropropane	76	13.027	13.027	(0.935)	9644	1.00000	1.0	
	64 1,2-Dibromoethane	107	13.227	13.220	(1.381)	4194	1.00000	0.92(aM)	M6
	65 2-Hexanone	43	13.570	13.563	(0.974)	14473	5.00000	4.2(a)	
*	66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	745654	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	15347	1.00000	1.0	
	152 1-Chlorohexane	91	13.935	13.935	(1.000)	9869	1.00000	1.2	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	8045	1.00000	1.0	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	4049	1.00000	0.86(a)	
M	70 Xylenes (total)	106				29204	5.00000	(a)	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	20175	2.00000	2.0	
	72 o-Xylene	106	14.764	14.764	(1.060)	9029	1.00000	0.95(a)	
	73 Styrene	104	14.836	14.836	(1.065)	15180	1.00000	0.92(a)	
	74 Bromoform	173	14.871	14.872	(1.067)	2652	1.00000	0.88(aM)	M6
	75 Isopropylbenzene	105	15.172	15.172	(0.896)	24457	1.00000	0.97(a)	
$	76 P-Bromofluorobenzene	95	15.529	15.537	(1.621)	8733	1.00000	1.0	
	77 cis-1,4-Dichloro-2-Butene	53	15.622	15.622	(0.923)	1570	1.00000	0.70(a)	

REC
12:19 pm, Jul 07, 2015

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1536.D
Report Date: 23-Jun-2015 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.023	16.023	(0.947)	1587	1.00000	0.84(a)	
	79 Bromobenzene	156	15.665	15.665	(0.926)	6230	1.00000	1.0	
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	30135	1.00000	0.98(a)	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	7042	1.00000	0.97(a)	
	82 1,3,5-Trimethylbenzene	105	15.944	15.951	(0.942)	20518	1.00000	0.92(a)	
	83 2-Chlorotoluene	91	15.894	15.894	(0.939)	19048	1.00000	0.99(a)	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	5359	1.00000	0.96(a)	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	19912	1.00000	0.98(a)	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	19545	1.00000	0.93(a)	
	87 Pentachloroethane	117	16.380	16.373	(0.968)	3278	1.00000	0.81(aM)	M9
	88 1,2,4-Trimethylbenzene	105	16.437	16.430	(0.971)	20353	1.00000	0.92(a)	
	89 P-Isopropyltoluene	119	16.745	16.745	(0.989)	23396	1.00000	0.97(a)	
	90 1,3-Dichlorobenzene	146	16.838	16.838	(0.995)	13379	1.00000	1.0	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	402945	50.0000		
	92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	14042	1.00000	1.1	
	93 N-Butylbenzene	91	17.260	17.260	(1.020)	22178	1.00000	0.96(a)	
	94 sec-Butylbenzene	105	16.566	16.565	(0.979)	28132	1.00000	1.00	
	95 1,2-Dichlorobenzene	146	17.460	17.460	(1.032)	12156	1.00000	1.00	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	1099	1.00000	0.87(a)	
	97 1,3,5-Trichlorobenzene	180	18.454	18.461	(1.090)	7326	1.00000	0.90(a)	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	2163	1.00000	0.86(a)	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	7279	1.00000	0.97(a)	
	100 1,2,3-Trimethylbenzene	105	16.974	16.974	(1.003)	21016	1.00000	0.90(a)	
	101 Naphthalene	128	19.655	19.655	(1.161)	10309	1.00000	0.70(a)	
	102 1,2,3-Trichlorobenzene	180	19.912	19.905	(1.177)	5515	1.00000	0.94(a)	
	103 Methyl Acetate	43	5.004	4.997	(0.574)	3819	1.00000	0.90(a)	
	104 Methylcyclohexane	83	9.480	9.480	(1.087)	8581	1.00000	1.1	
M	153 Total Alkylbenzenes	100				164257	1.00000	(a)	

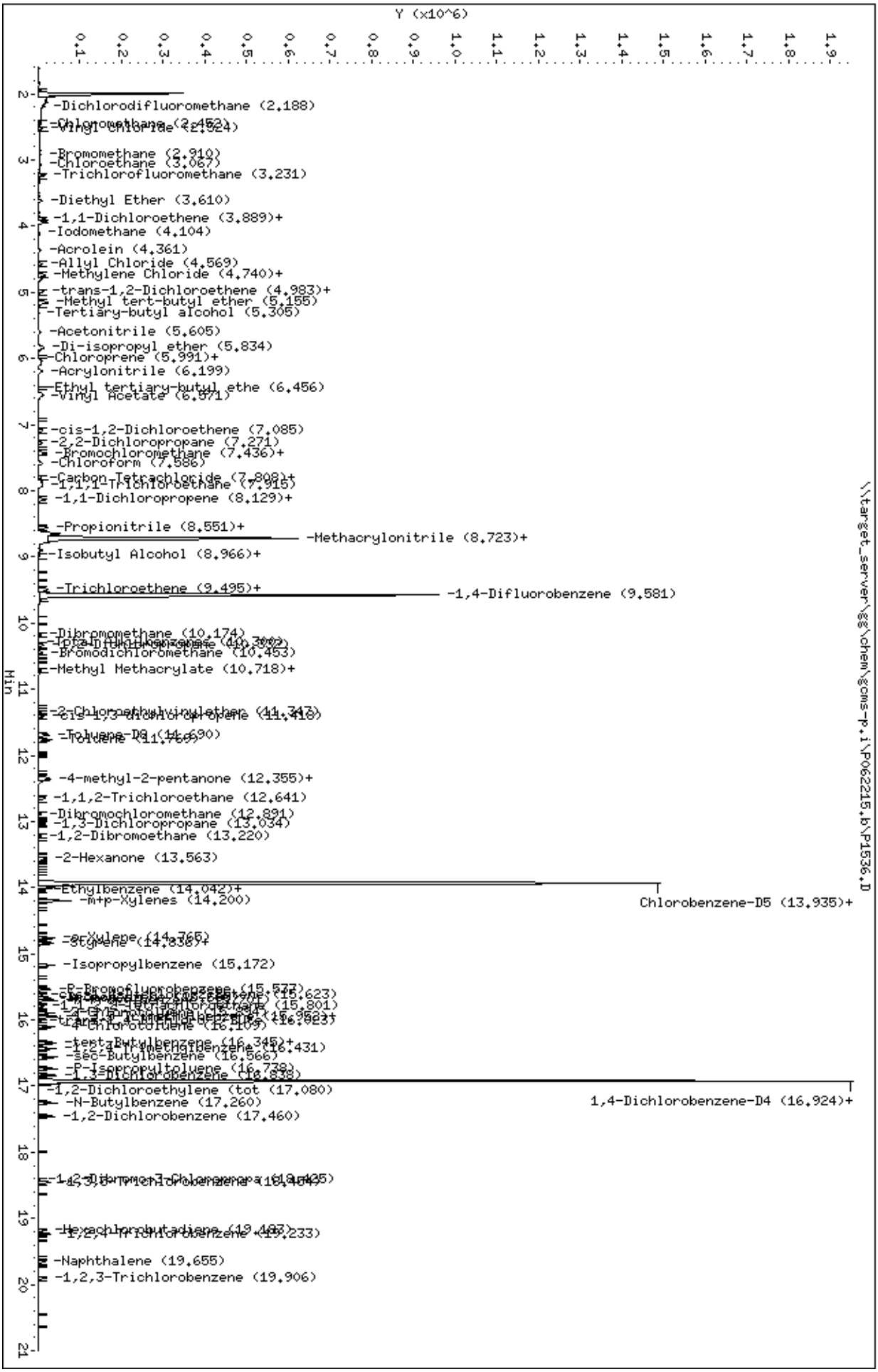
REC
12:19 pm, Jul 07, 2015

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1536.D
Date : 22-JUN-2015 11:21
Client ID: Initial Calibration
Sample Info: WG165276-1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1537.D
Report Date: 23-Jun-2015 07:52

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Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1537.D
Lab Smp Id: WG165276-6 Client Smp ID: Initial Calibration
Inj Date : 22-JUN-2015 11:47 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165276-6
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Meth Date : 22-Jun-2015 12:37 rcrocker Quant Type: ISTD
Cal Date : 22-JUN-2015 11:47 Cal File: P1537.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.180	2.187	(0.250)	1117206	200.000	199	
2 Chloromethane	50	2.416	2.437	(0.277)	1730989	200.000	213(AM)	M9
3 Vinyl chloride	62	2.516	2.516	(0.288)	1214696	200.000	208(A)	
4 Bromomethane	94	2.909	2.909	(0.334)	617776	200.000	239(A)	
5 Chloroethane	64	3.052	3.067	(0.350)	500563	200.000	109(M)	M9
6 Trichlorofluoromethane	101	3.231	3.231	(0.370)	1714215	200.000	214(AM)	M9
7 Diethyl Ether	59	3.624	3.617	(0.416)	992098	200.000	208(A)	
8 Tertiary-butyl alcohol	59	5.319	5.305	(0.610)	348597	1000.00	1000(A)	
9 1,1-Dichloroethene	96	3.896	3.889	(0.447)	916106	200.000	216(A)	
10 Carbon Disulfide	76	3.946	3.953	(0.452)	3199125	200.000	207(A)	
11 Freon-113	151	3.931	3.939	(0.451)	548640	200.000	206(A)	
12 Iodomethane	142	4.110	4.111	(0.471)	634543	200.000	215(A)	
13 Acrolein	56	4.375	4.368	(0.502)	1142862	1000.00	1070(A)	
14 Methylene Chloride	84	4.739	4.733	(0.543)	1149174	200.000	200	
15 Acetone	43	4.811	4.804	(0.552)	1857343	1000.00	990	
16 Isobutyl Alcohol	43	8.979	8.966	(1.030)	677330	4000.00	4020(A)	
17 trans-1,2-Dichloroethene	96	4.983	4.983	(0.571)	907861	200.000	201(A)	
18 Allyl Chloride	41	4.575	4.568	(0.525)	1255313	200.000	192	
19 Methyl tert-butyl ether	73	5.154	5.147	(0.591)	5214292	400.000	375	
20 Acetonitrile	39	5.612	5.598	(0.643)	305145	2000.00	1960	
21 Di-isopropyl ether	45	5.833	5.827	(0.669)	3523912	200.000	203(A)	
22 Chloroprene	53	6.034	6.027	(0.692)	1690767	200.000	200(A)	
23 Propionitrile	54	8.643	8.622	(0.991)	1494752	2000.00	2020(A)	
24 Methacrylonitrile	41	8.672	8.651	(0.994)	4857819	2000.00	1500	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.091	6.084	(0.698)	1736303	200.000	198	
	26 Acrylonitrile	52	6.205	6.191	(0.711)	1883886	1000.00	1040(A)	
	27 Ethyl tertiary-butyl ether	59	6.541	6.535	(0.750)	3102122	200.000	206(A)	
	28 Vinyl Acetate	43	6.577	6.570	(0.687)	2592089	200.000	203(A)	
	29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.813)	1119140	200.000	203(A)	
M	30 1,2-Dichloroethylene (total)	96				2027001	200.000	404	
	31 Methyl Methacrylate	41	10.717	10.710	(1.119)	970890	200.000	216(A)	
	32 2,2-Dichloropropane	77	7.285	7.278	(0.835)	1188130	200.000	186	
	33 Bromochloromethane	128	7.449	7.435	(0.854)	429023	200.000	199	
	34 Chloroform	83	7.585	7.578	(0.870)	1759715	200.000	196	
	35 Carbon Tetrachloride	117	7.800	7.800	(0.814)	1124261	200.000	207(A)	
	36 Tetrahydrofuran	42	7.850	7.843	(0.900)	1425038	1000.00	978	
$	37 Dibromofluoromethane	113	7.907	7.900	(0.907)	870776	200.000	194	
	38 1,1,1-Trichloroethane	97	7.928	7.922	(0.909)	1477491	200.000	200	
	39 1,1-Dichloropropene	75	8.143	8.135	(0.850)	1297624	200.000	193	
	40 2-Butanone	43	8.121	8.115	(0.931)	2159009	1000.00	931	
	41 Benzene	78	8.558	8.558	(0.893)	3597376	200.000	183	
*	42 Pentafluorobenzene	168	8.722	8.715	(1.000)	414653	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	1585431	200.000	199	
	44 Ethyl Methacrylate	69	10.717	10.710	(1.119)	775799	200.000	200(A)	
$	45 1,2-Dichloroethane-D4	65	8.794	8.787	(1.008)	1097518	200.000	172	
	46 Tertiary-amyl methyl ether	73	8.772	8.765	(1.006)	2495340	200.000	201(A)	
	47 1,2-Dichloroethane	62	8.908	8.894	(0.930)	1333385	200.000	182	
	48 Trichloroethene	95	9.516	9.509	(0.993)	951334	200.000	189	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	782344	50.0000		
	50 Dibromomethane	93	10.181	10.174	(1.063)	587494	200.000	200	
	51 1,2-Dichloropropane	63	10.338	10.338	(1.079)	993187	200.000	200(A)	
	52 Bromodichloromethane	83	10.445	10.446	(1.090)	1428307	200.000	203(A)	
	53 cis-1,3-dichloropropene	75	11.418	11.418	(1.192)	1691628	200.000	215(A)	
	54 1,4-Dioxane	88	10.760	10.753	(1.123)	162767	4000.00	4000(A)	
$	55 Toluene-D8	98	11.696	11.690	(1.221)	3127518	200.000	180	
	56 2-Chloroethylvinylether	63	11.346	11.339	(1.184)	229473	200.000	104	
	57 Toluene	92	11.775	11.768	(1.229)	2426861	200.000	188	
	58 4-methyl-2-pentanone	43	12.361	12.355	(1.290)	4095489	1000.00	881	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	713010	200.000	198	
	60 trans-1,3-Dichloropropene	75	12.411	12.405	(1.296)	1457327	200.000	218(A)	
	61 1,1,2-Trichloroethane	83	12.640	12.634	(1.319)	774168	200.000	200	
	62 Dibromochloromethane	129	12.891	12.891	(0.925)	1065771	200.000	211(A)	
	63 1,3-Dichloropropane	76	13.034	13.027	(0.935)	1700361	200.000	189	
	64 1,2-Dibromoethane	107	13.227	13.220	(1.381)	929588	200.000	209(A)	
	65 2-Hexanone	43	13.563	13.563	(0.973)	3115284	1000.00	936	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	729567	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	2605631	200.000	183	
	152 1-Chlorohexane	91	13.942	13.935	(1.000)	1476324	200.000	186	
	68 Ethylbenzene	106	14.006	13.999	(1.005)	1474403	200.000	190	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	1014210	200.000	216(A)	
M	70 Xylenes (total)	106				4884259	200.000	525	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	3093787	400.000	332	
	72 o-Xylene	106	14.771	14.764	(1.060)	1790472	200.000	194	
	73 Styrene	104	14.843	14.836	(1.065)	2856054	200.000	181	
	74 Bromoform	173	14.871	14.872	(1.067)	663309	200.000	219(A)	
	75 Isopropylbenzene	105	15.179	15.172	(0.897)	3827366	200.000	166	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	1450960	200.000	182	
	77 cis-1,4-Dichloro-2-Butene	53	15.629	15.622	(0.923)	495152	200.000	200	

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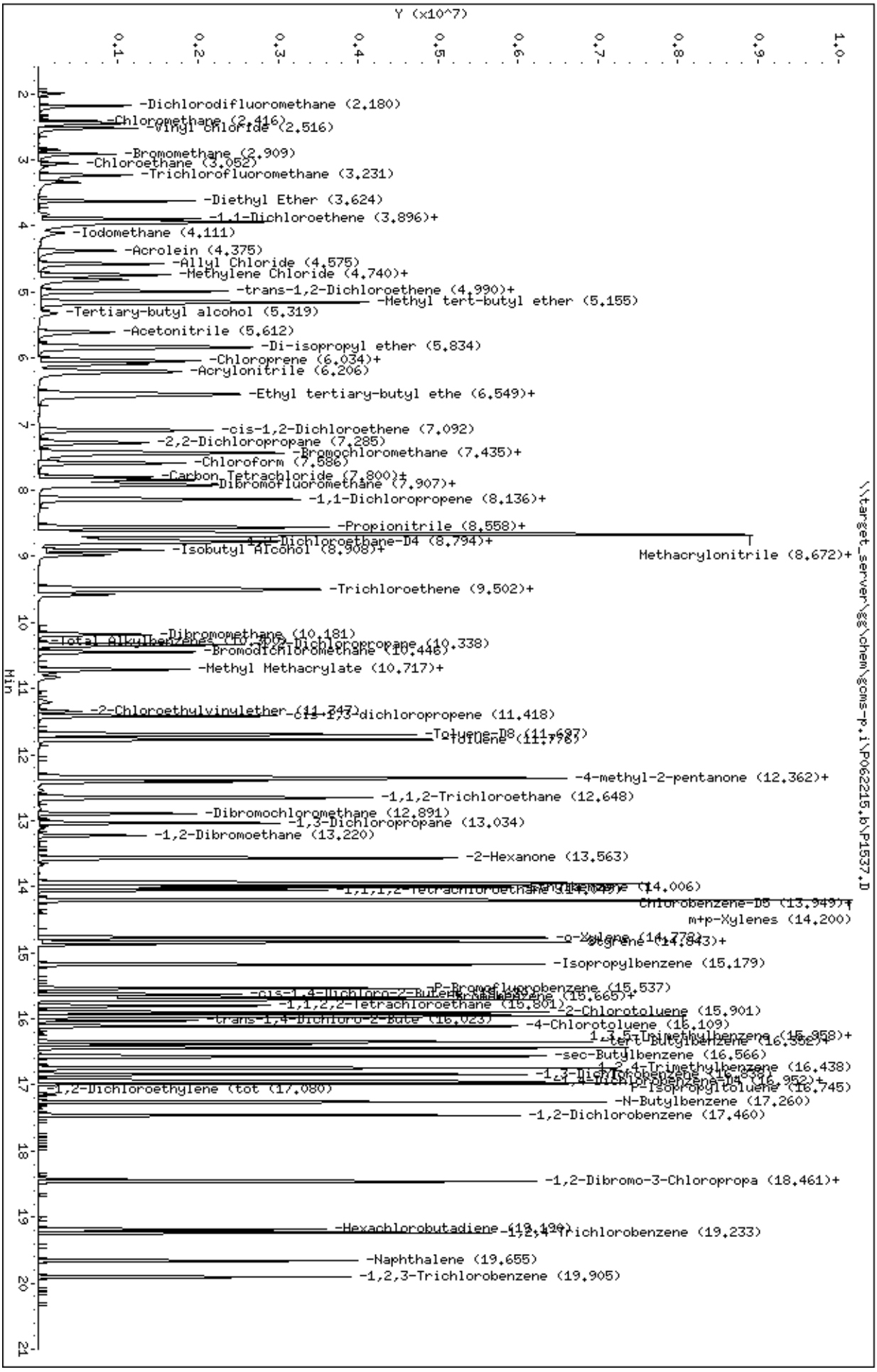
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.946)	360651	200.000	199	
	79 Bromobenzene	156	15.672	15.665	(0.926)	1167282	200.000	200(A)	
	80 N-Propylbenzene	91	15.708	15.701	(0.928)	4106023	200.000	148	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.933)	1281010	200.000	188	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.942)	3340508	200.000	164	
	83 2-Chlorotoluene	91	15.901	15.894	(0.939)	2988788	200.000	169	
	84 1,2,3-Trichloropropane	75	15.972	15.966	(0.943)	966186	200.000	185	
	85 4-Chlorotoluene	91	16.108	16.109	(0.951)	3038355	200.000	163	
	86 tert-Butylbenzene	119	16.351	16.344	(0.966)	3598357	200.000	184	
	87 Pentachloroethane	117	16.380	16.373	(0.967)	841810	200.000	214(A)	
	88 1,2,4-Trimethylbenzene	105	16.437	16.430	(0.971)	3298301	200.000	163	
	89 P-Isopropyltoluene	119	16.744	16.745	(0.989)	3507649	200.000	159	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	2093707	200.000	176	
*	91 1,4-Dichlorobenzene-D4	152	16.930	16.924	(1.000)	384857	50.0000		
	92 1,4-Dichlorobenzene	146	16.952	16.945	(1.001)	2096563	200.000	173	
	93 N-Butylbenzene	91	17.259	17.260	(1.019)	3202650	200.000	154	
	94 sec-Butylbenzene	105	16.566	16.565	(0.978)	3812340	200.000	150	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.031)	2021411	200.000	178	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.088)	249133	200.000	206(A)	
	97 1,3,5-Trichlorobenzene	180	18.461	18.461	(1.090)	1559304	200.000	201(A)	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.133)	541977	200.000	220(A)	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	1462037	200.000	203(A)	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	3269257	200.000	154	
	101 Naphthalene	128	19.662	19.655	(1.161)	2828942	200.000	198	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	1062865	200.000	192	
	103 Methyl Acetate	43	5.004	4.997	(0.574)	843733	200.000	205(A)	
	104 Methylcyclohexane	83	9.487	9.480	(1.088)	1519190	200.000	198	
M	153 Total Alkylbenzenes	100				24865828	200.000	1120	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1537.D
Date : 22-JUN-2015 11:47
Client ID: Initial Calibration
Sample Info: WG165276-6
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1538.D
Report Date: 23-Jun-2015 07:52

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1538.D
Lab Smp Id: WG165276-5 Client Smp ID: Initial Calibration
Inj Date : 22-JUN-2015 12:13 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165276-5
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Meth Date : 22-Jun-2015 12:37 rcrocker Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.181	2.187	(0.250)	611461	100.000	104	
2 Chloromethane	50	2.438	2.437	(0.280)	823521	100.000	98.6	
3 Vinyl chloride	62	2.517	2.516	(0.289)	654924	100.000	107	
4 Bromomethane	94	2.910	2.909	(0.334)	345778	100.000	123	
5 Chloroethane	64	3.053	3.067	(0.350)	315080	100.000	71.2	
6 Trichlorofluoromethane	101	3.225	3.231	(0.370)	753888	100.000	92.5	
7 Diethyl Ether	59	3.618	3.617	(0.415)	537606	100.000	107	
8 Tertiary-butyl alcohol	59	5.313	5.305	(0.609)	217601	500.000	580	
9 1,1-Dichloroethene	96	3.890	3.889	(0.446)	448362	100.000	102	
10 Carbon Disulfide	76	3.947	3.953	(0.452)	1680121	100.000	104	
11 Freon-113	151	3.933	3.939	(0.451)	305327	100.000	109	
12 Iodomethane	142	4.111	4.111	(0.471)	425887	100.000	131	
13 Acrolein	56	4.369	4.368	(0.501)	619372	500.000	552	
14 Methylene Chloride	84	4.734	4.733	(0.543)	603269	100.000	101	
15 Acetone	43	4.812	4.804	(0.552)	1031728	500.000	527	
16 Isobutyl Alcohol	43	8.974	8.966	(1.029)	411000	2000.00	2280	
17 trans-1,2-Dichloroethene	96	4.984	4.983	(0.571)	484476	100.000	103	
18 Allyl Chloride	41	4.569	4.568	(0.524)	774804	100.000	112	
19 Methyl tert-butyl ether	73	5.155	5.147	(0.591)	3244507	200.000	221	
20 Acetonitrile	39	5.606	5.598	(0.643)	175734	1000.00	1080	
21 Di-isopropyl ether	45	5.835	5.827	(0.669)	2008934	100.000	110	
22 Chloroprene	53	6.035	6.027	(0.692)	950556	100.000	108	
23 Propionitrile	54	8.630	8.622	(0.989)	876156	1000.00	1120	
24 Methacrylonitrile	41	8.659	8.651	(0.993)	3214205	1000.00	969	

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Report Date: 23-Jun-2015 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.085	6.084	(0.698)	930297	100.000	102	
	26 Acrylonitrile	52	6.199	6.191	(0.711)	1048367	500.000	552	
	27 Ethyl tertiary-butyl ether	59	6.543	6.535	(0.750)	1805293	100.000	113	
	28 Vinyl Acetate	43	6.578	6.570	(0.687)	1476220	100.000	109	
	29 cis-1,2-Dichloroethene	96	7.093	7.085	(0.813)	591632	100.000	103	
	31 Methyl Methacrylate	41	10.711	10.710	(1.118)	554743	100.000	115	
	32 2,2-Dichloropropane	77	7.279	7.278	(0.834)	696812	100.000	105	
	33 Bromochloromethane	128	7.451	7.435	(0.854)	222925	100.000	100	
	34 Chloroform	83	7.586	7.578	(0.870)	937202	100.000	101	
	35 Carbon Tetrachloride	117	7.801	7.800	(0.814)	608958	100.000	106	
	36 Tetrahydrofuran	42	7.844	7.843	(0.899)	822007	500.000	538	
$	37 Dibromofluoromethane	113	7.901	7.900	(0.906)	456972	100.000	98.6	
	38 1,1,1-Trichloroethane	97	7.930	7.922	(0.909)	807159	100.000	105	
	39 1,1-Dichloropropene	75	8.137	8.135	(0.849)	704231	100.000	100	
	40 2-Butanone	43	8.123	8.115	(0.931)	1307915	500.000	538	
	41 Benzene	78	8.559	8.558	(0.893)	2080266	100.000	101	
*	42 Pentafluorobenzene	168	8.723	8.715	(1.000)	428338	50.0000		
	43 Cyclohexane	56	7.429	7.428	(0.852)	902972	100.000	108	
	44 Ethyl Methacrylate	69	10.711	10.710	(1.118)	433660	100.000	106	
$	45 1,2-Dichloroethane-D4	65	8.795	8.787	(1.008)	602539	100.000	92.6	
	46 Tertiary-amyl methyl ether	73	8.766	8.765	(1.005)	1488743	100.000	113	
	47 1,2-Dichloroethane	62	8.902	8.894	(0.929)	736991	100.000	97.4	
	48 Trichloroethene	95	9.517	9.509	(0.993)	515307	100.000	98.7	
*	49 1,4-Difluorobenzene	114	9.581	9.573	(1.000)	814842	50.0000		
	50 Dibromomethane	93	10.182	10.174	(1.063)	312620	100.000	102	
	51 1,2-Dichloropropane	63	10.339	10.338	(1.079)	536413	100.000	103	
	52 Bromodichloromethane	83	10.446	10.446	(1.090)	767223	100.000	104	
	53 cis-1,3-dichloropropene	75	11.419	11.418	(1.192)	900508	100.000	108	
	54 1,4-Dioxane	88	10.761	10.753	(1.123)	128845	2000.00	2450	
$	55 Toluene-D8	98	11.691	11.690	(1.220)	1758036	100.000	97.5	
	56 2-Chloroethylvinylether	63	11.347	11.339	(1.184)	163097	100.000	74.5	
	57 Toluene	92	11.769	11.768	(1.228)	1371457	100.000	102	
	58 4-methyl-2-pentanone	43	12.356	12.355	(1.290)	2635399	500.000	536	
	59 Tetrachloroethene	164	12.334	12.333	(0.885)	381769	100.000	103	
	60 trans-1,3-Dichloropropene	75	12.406	12.405	(1.295)	783100	100.000	110	
	61 1,1,2-Trichloroethane	83	12.642	12.634	(1.319)	419264	100.000	103	
	62 Dibromochloromethane	129	12.892	12.891	(0.925)	554541	100.000	106	
	63 1,3-Dichloropropane	76	13.035	13.027	(0.935)	928049	100.000	101	
	64 1,2-Dibromoethane	107	13.221	13.220	(1.380)	502286	100.000	107	
	65 2-Hexanone	43	13.564	13.563	(0.973)	1913081	500.000	552	
*	66 Chlorobenzene-D5	117	13.936	13.935	(1.000)	743994	50.0000		
	67 Chlorobenzene	112	13.957	13.956	(1.002)	1456997	100.000	100	
	152 1-Chlorohexane	91	13.936	13.935	(1.000)	798010	100.000	98.9	
	68 Ethylbenzene	106	14.000	13.999	(1.005)	808761	100.000	102	
	69 1,1,1,2-Tetrachloroethane	131	14.050	14.049	(1.008)	533692	100.000	109	
	71 m+p-Xylenes	106	14.200	14.199	(1.019)	1893354	200.000	199	
	72 o-Xylene	106	14.765	14.764	(1.060)	990821	100.000	104	
	73 Styrene	104	14.837	14.836	(1.065)	1705768	100.000	105	
	74 Bromoform	173	14.872	14.872	(1.067)	349332	100.000	111	
	75 Isopropylbenzene	105	15.173	15.172	(0.896)	2423076	100.000	101	
$	76 P-Bromofluorobenzene	95	15.537	15.537	(1.622)	781036	100.000	95.2	
	77 cis-1,4-Dichloro-2-Butene	53	15.630	15.622	(0.924)	276429	100.000	106	
	78 trans-1,4-Dichloro-2-Butene	53	16.024	16.023	(0.947)	214980	100.000	112	
	79 Bromobenzene	156	15.666	15.665	(0.926)	629143	100.000	104	

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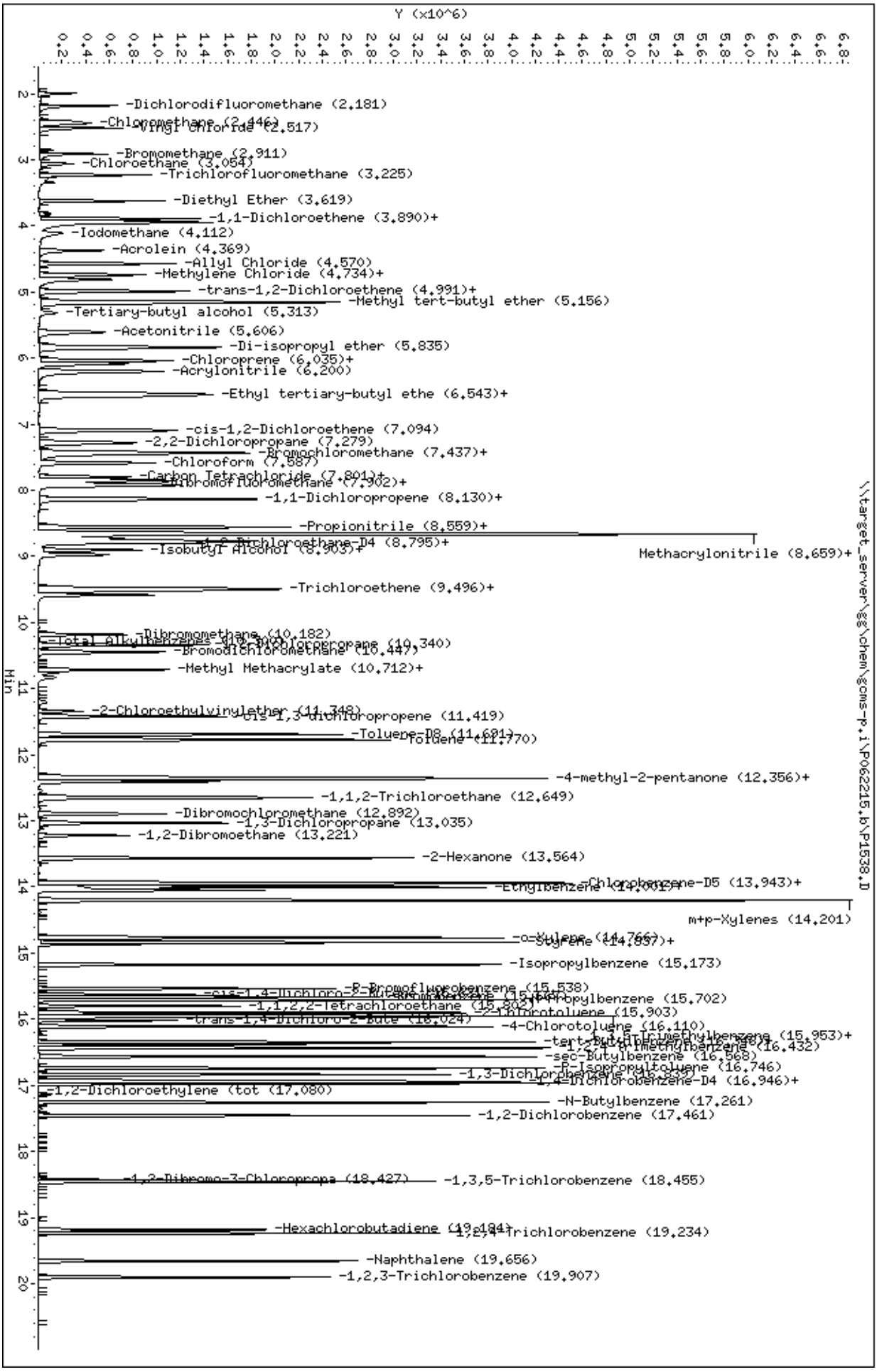
Report Date: 23-Jun-2015 07:52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	15.702	15.701	(0.928)	2787928	100.000	97.9	
	81 1,1,2,2-Tetrachloroethane	83	15.802	15.801	(0.934)	751402	100.000	106	
	82 1,3,5-Trimethylbenzene	105	15.952	15.951	(0.943)	2147533	100.000	102	
	83 2-Chlorotoluene	91	15.902	15.894	(0.940)	1839727	100.000	100	
	84 1,2,3-Trichloropropane	75	15.966	15.966	(0.943)	566441	100.000	104	
	85 4-Chlorotoluene	91	16.109	16.109	(0.952)	1922254	100.000	99.8	
	86 tert-Butylbenzene	119	16.345	16.344	(0.966)	1979868	100.000	98.1	
	87 Pentachloroethane	117	16.374	16.373	(0.967)	468800	100.000	112	
	88 1,2,4-Trimethylbenzene	105	16.431	16.430	(0.971)	2136506	100.000	102	
	89 P-Isopropyltoluene	119	16.746	16.745	(0.989)	2271590	100.000	99.8	
	90 1,3-Dichlorobenzene	146	16.839	16.838	(0.995)	1238797	100.000	101	
*	91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	397843	50.0000		
	92 1,4-Dichlorobenzene	146	16.946	16.945	(1.001)	1260990	100.000	100	
	93 N-Butylbenzene	91	17.261	17.260	(1.020)	2131920	100.000	99.3	
	94 sec-Butylbenzene	105	16.567	16.565	(0.979)	2524843	100.000	97.0	
	95 1,2-Dichlorobenzene	146	17.461	17.460	(1.032)	1208722	100.000	102	
	96 1,2-Dibromo-3-Chloropropane	75	18.426	18.425	(1.089)	145675	100.000	113	
	97 1,3,5-Trichlorobenzene	180	18.462	18.461	(1.091)	872393	100.000	107	
	98 Hexachlorobutadiene	225	19.191	19.190	(1.134)	291103	100.000	112	
	99 1,2,4-Trichlorobenzene	180	19.234	19.233	(1.136)	831709	100.000	110	
	100 1,2,3-Trimethylbenzene	105	16.975	16.974	(1.003)	2198457	100.000	100	
	101 Naphthalene	128	19.656	19.655	(1.161)	1861637	100.000	118	
	102 1,2,3-Trichlorobenzene	180	19.906	19.905	(1.176)	669404	100.000	114	
	103 Methyl Acetate	43	5.005	4.997	(0.574)	474794	100.000	109	
	104 Methylcyclohexane	83	9.488	9.480	(1.088)	892993	100.000	110	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Date : 22-JUN-2015 12:13
Client ID: Initial Calibration
Sample Info: WG165276-5
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane (2.181)
-Chloromethane (2.446)
-Vinyl chloride (2.517)
-Bromomethane (2.911)
-Chloroethane (3.054)
-Trichlorofluoromethane (3.225)
-Diethyl Ether (3.619)
-1,1-Dichloroethene (3.890)+
-Iodomethane (4.112)
-Acrolein (4.369)
-Allyl Chloride (4.570)
-Methylene Chloride (4.734)+
-trans-1,2-Dichloroethene (4.991)+
-Methyl tert-butyl ether (5.156)
-Tertiary-butyl alcohol (5.313)
-Acetonitrile (5.606)
-Di-isopropyl ether (5.835)
-Chloroprene (6.035)+
-Acrylonitrile (6.200)
-Ethyl tertiary-butyl ethe (6.543)+
-cis-1,2-Dichloroethene (7.094)
-2,2-Dichloropropane (7.279)
-Bromochloromethane (7.437)+
-Chloroform (7.587)
-Carbon Tetrachloride (7.801)+
-Bromofluoromethane (7.902)+
-1,1-Dichloropropene (8.130)+
-Propionitrile (8.559)+
-1,2-Dichloroethane-D4 (8.795)+
-Isobutyl Alcohol (8.903)+
Methacrylonitrile (8.659)+
-Trichloroethene (9.496)+
-Dibromomethane (10.182)
-Total Alkylbenzenes
-1,3-Dichloropropane (10.340)
-Bromodichloromethane (10.447)
-Methyl Methacrylate (10.712)+
-2-Chloroethylvinylether (11.348)
-cis-1,3-dichloropropene (11.419)
-Toluene-D8 (11.601)
-Toluene (11.770)
-4-methyl-2-pentanone (12.356)+
-1,1,2-Trichloroethane (12.649)
-Dibromochloromethane (12.892)
-1,3-Dichloropropane (13.035)
-1,2-Dibromoethane (13.221)
-2-Hexanone (13.564)
-Chlorobenzene-D5 (13.943)+
-Ethylbenzene (14.001)+
m+p-Xylenes (14.201)
-o-Xylene (14.766)
-Styrene (14.857)+
-Isopropylbenzene (15.173)
-Bromofluorobenzene (15.538)
-cis-1,4-Dichloro-2-butene (15.570)
-n-Propylbenzene (15.702)
-1,1,2,2-Tetrachloroethane (15.802)
-2-Chlorotoluene (15.903)
-trans-1,4-Dichloro-2-bute (16.024)
-4-Chlorotoluene (16.110)
-1,3,5-Trimethylbenzene (15.953)+
-tert-Butylbenzene (16.268)
-1,2,4-Trimethylbenzene (16.432)
-sec-Butylbenzene (16.568)
-p-Isopropyltoluene (16.746)
-1,3-Dichlorobenzene (16.837)
-1,4-Dichlorobenzene-D4 (16.946)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.261)
-1,2-Dichlorobenzene (17.461)
-1,2-Dibromo-3-Chloropropa (18.427)
-1,3,5-Trichlorobenzene (18.455)
-Hexachlorobutadiene (19.184)
-1,2,4-Trichlorobenzene (19.234)
-Naphthalene (19.656)
-1,2,3-Trichlorobenzene (19.907)
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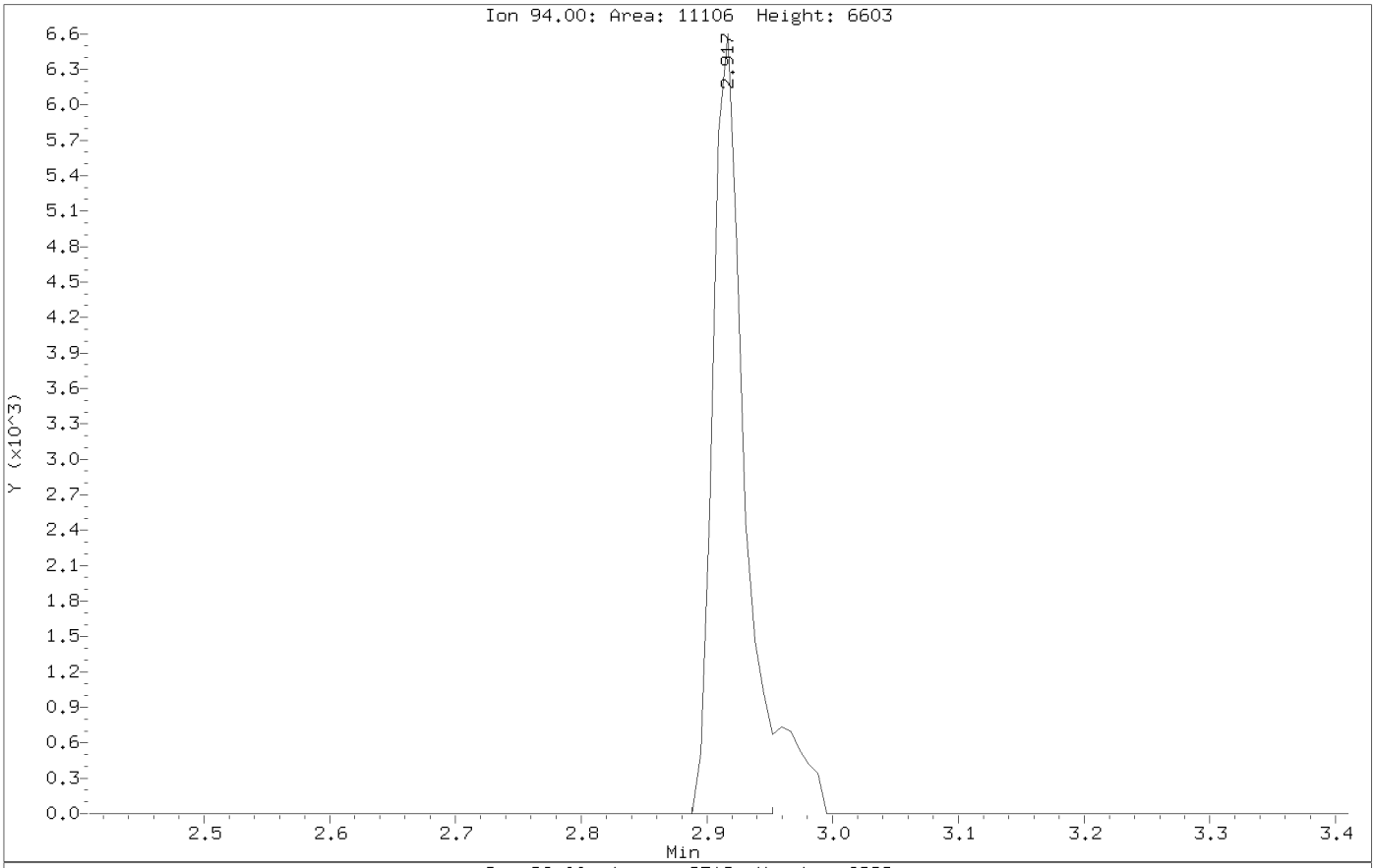
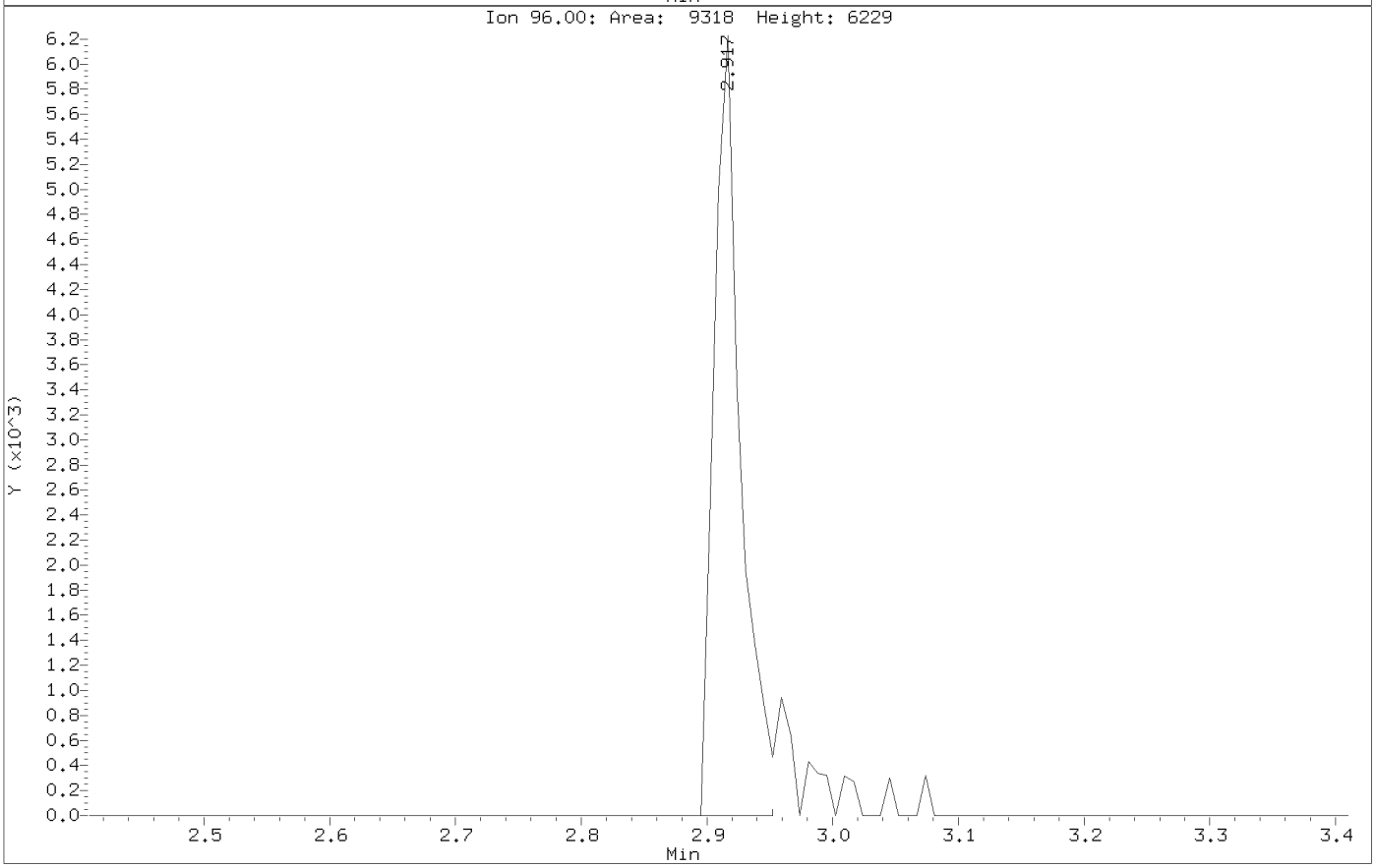
Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1535.D
Injection Date: 22-JUN-2015 10:55
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromomethane
CAS Number: 74-83-9

BEFORE MANUAL INTEGRATION





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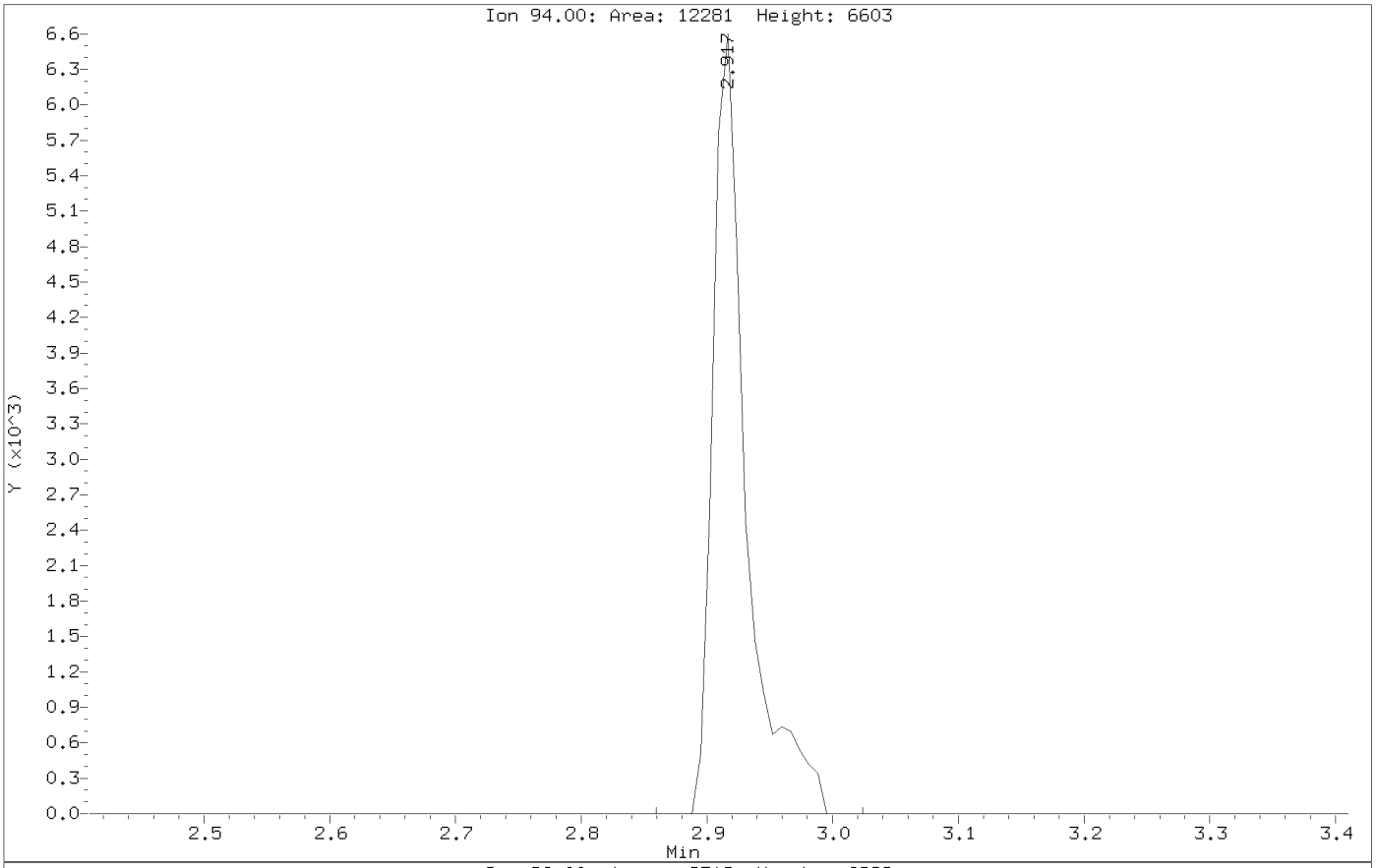
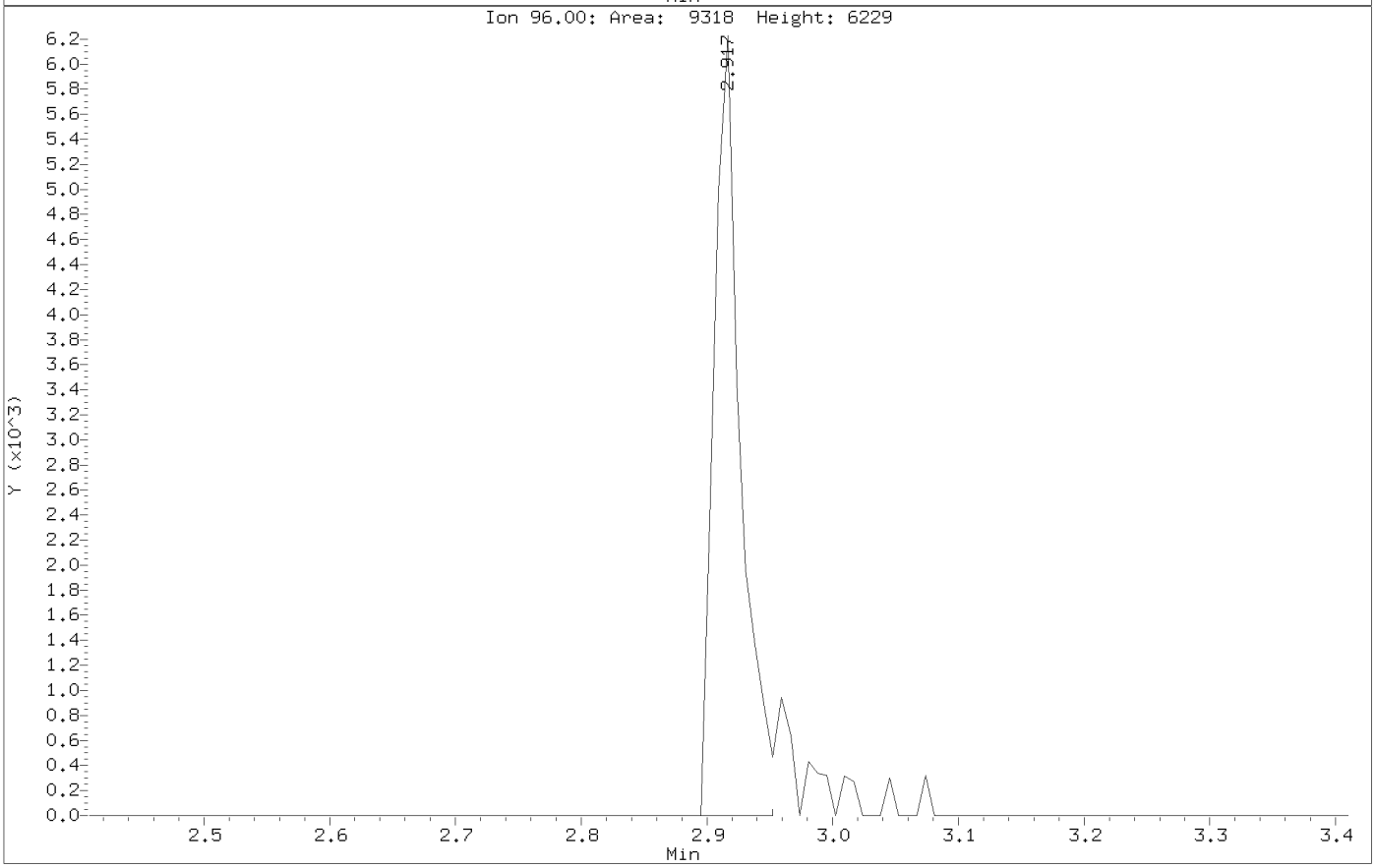
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromomethane
CAS Number: 74-83-9

AFTER MANUAL INTEGRATION





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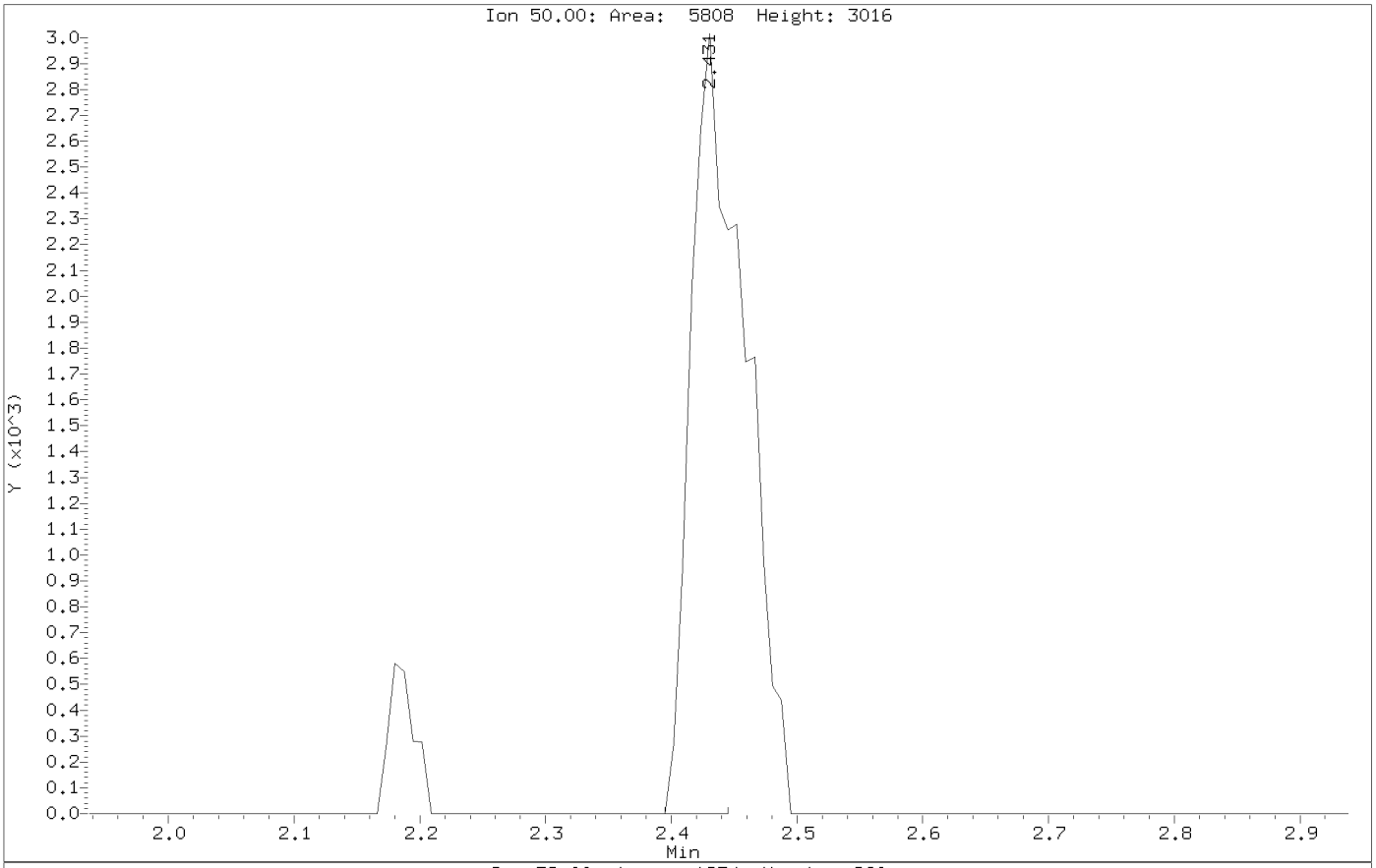
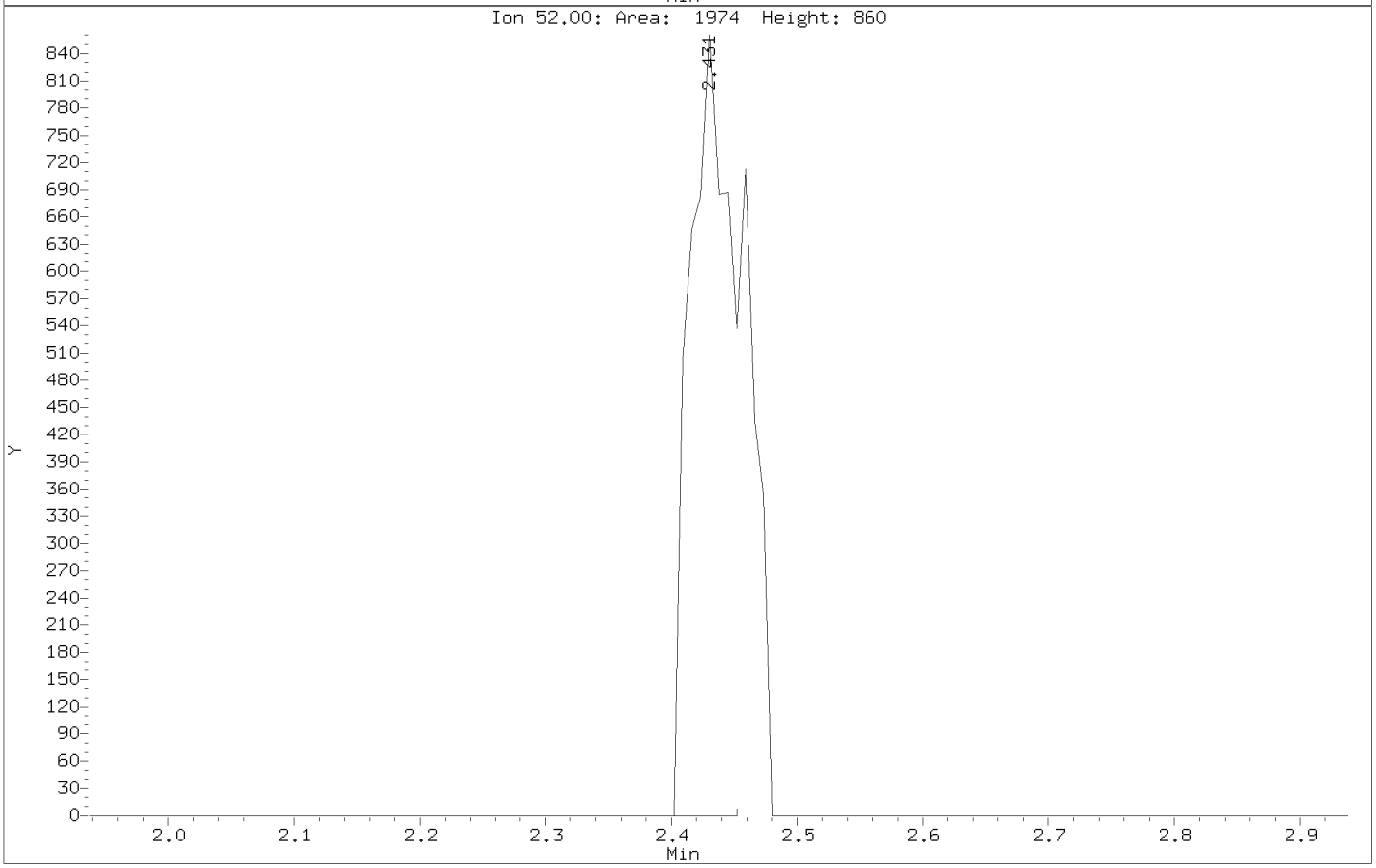
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Chloromethane
CAS Number: 74-87-3

BEFORE MANUAL INTEGRATION





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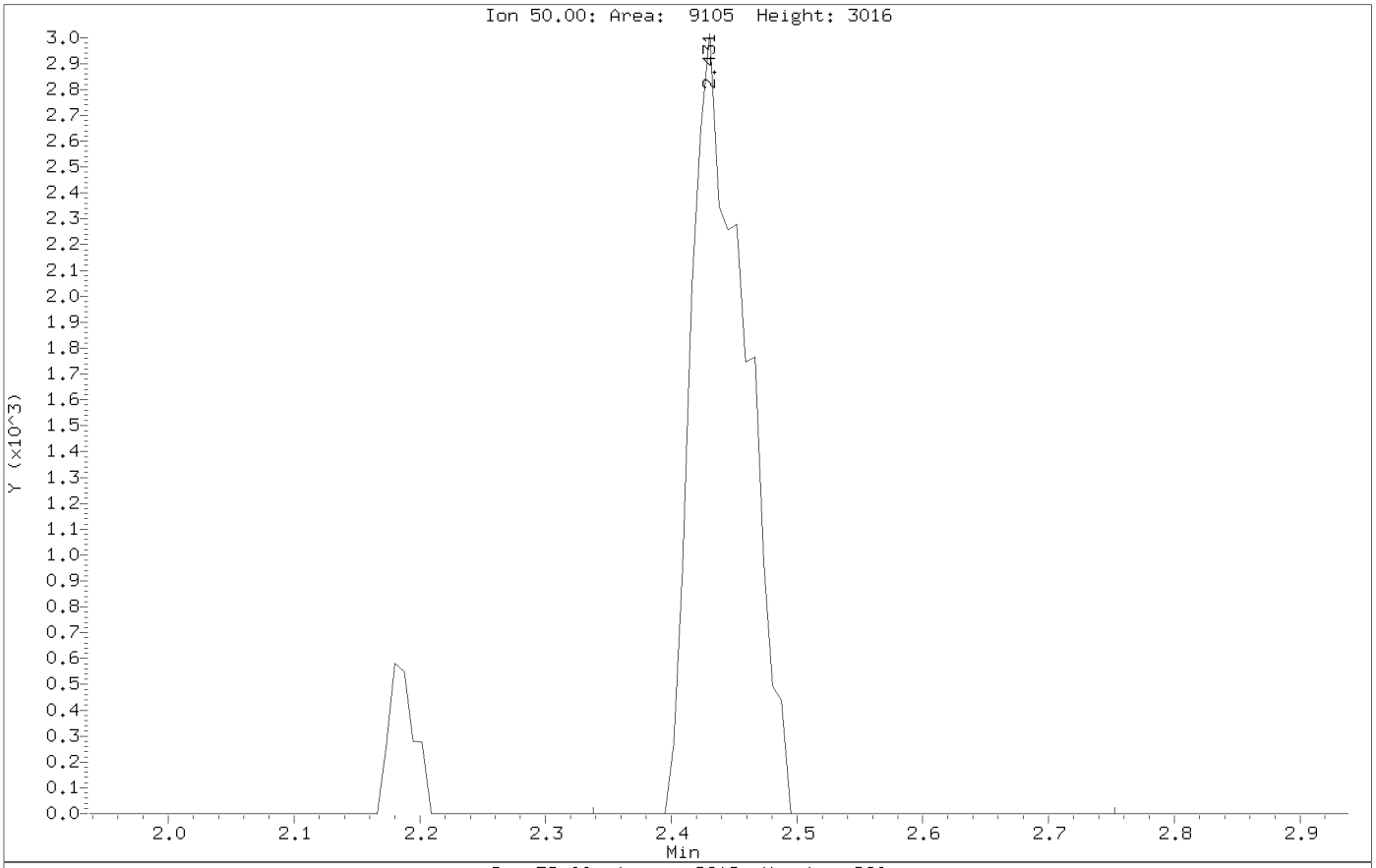
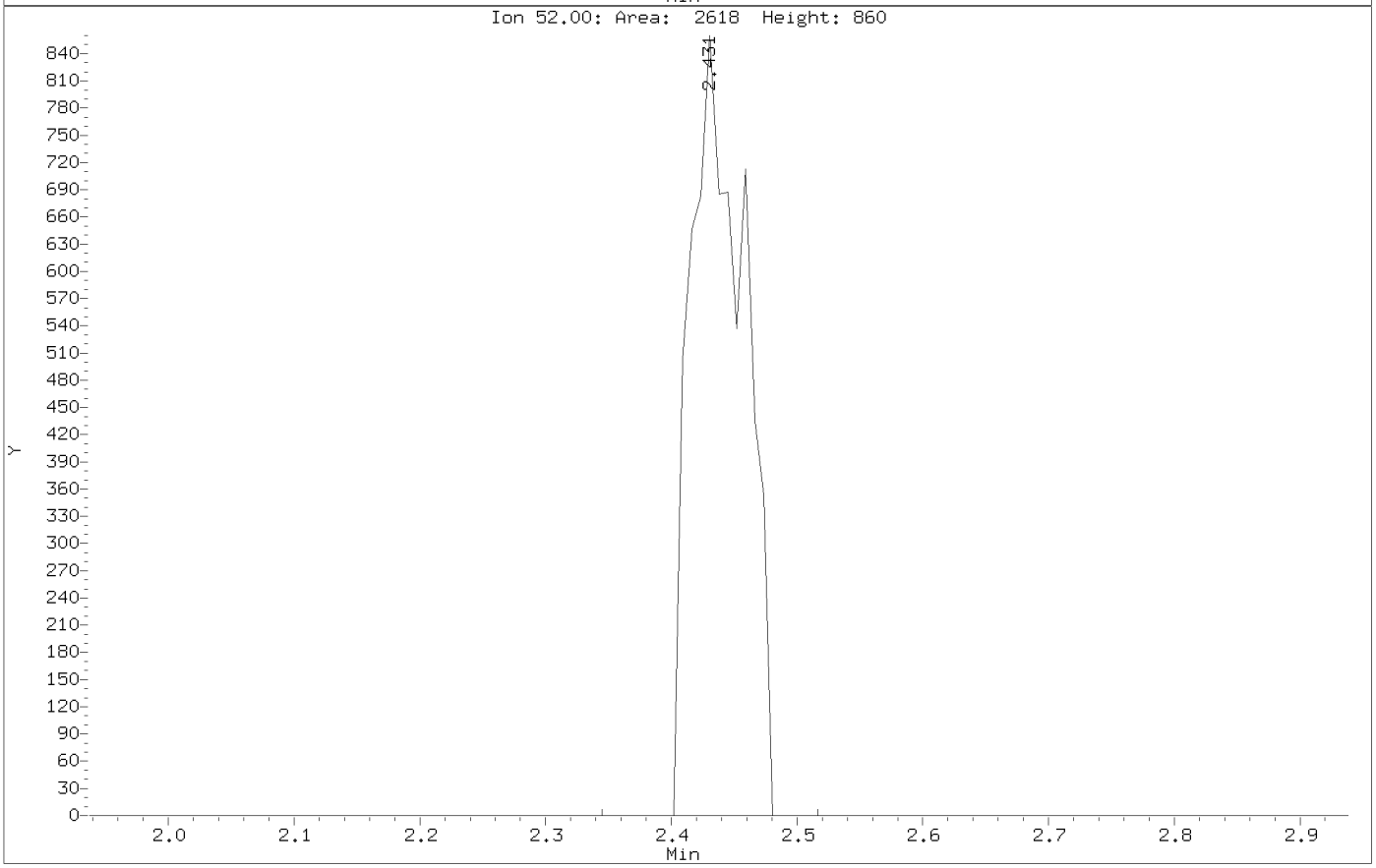
Instrument: gcms-p.i
Client Sample ID:

Compound: Chloromethane
CAS Number: 74-87-3

AFTER MANUAL INTEGRATION





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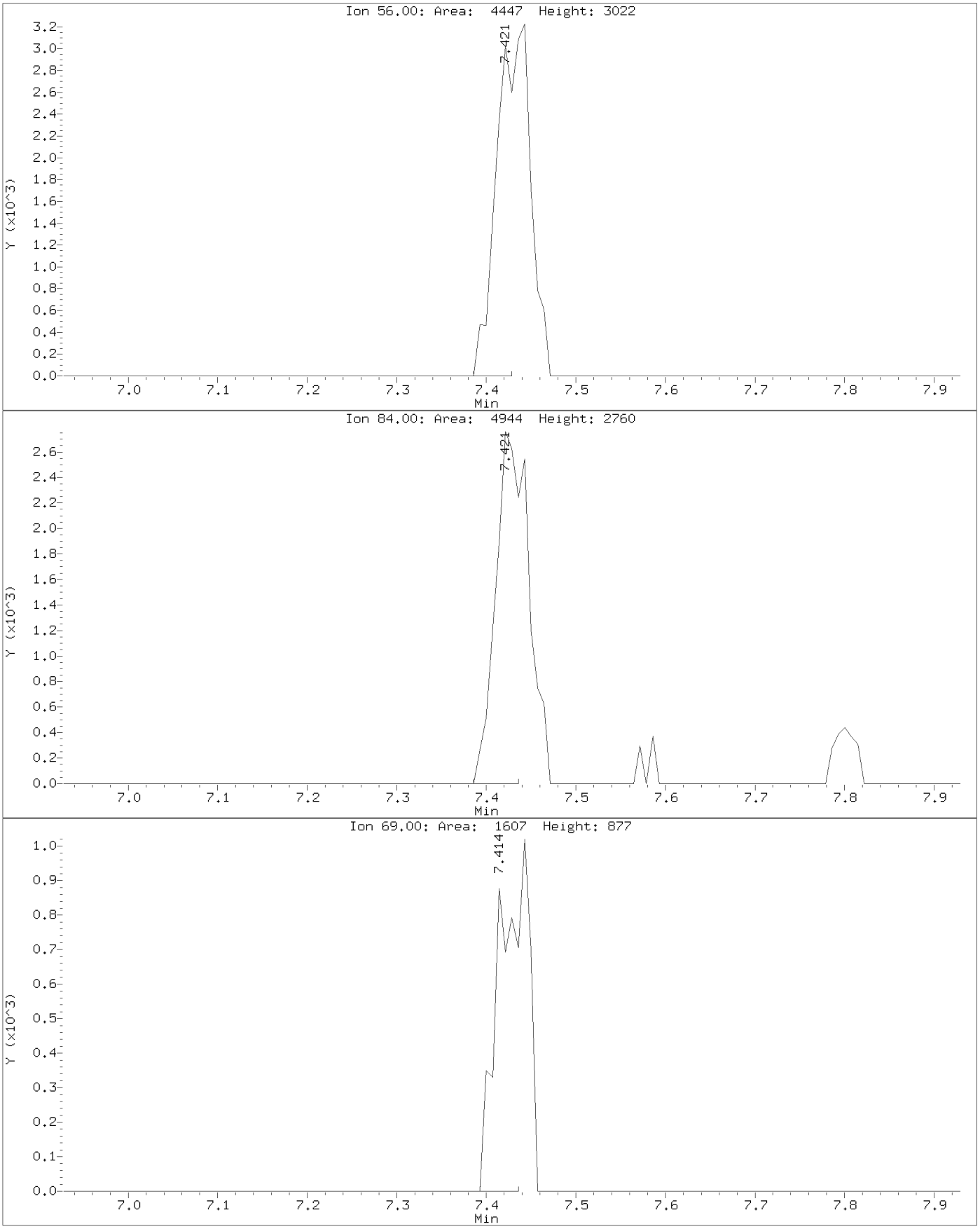
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Cyclohexane
CAS Number: 1735-17-7

BEFORE MANUAL INTEGRATION



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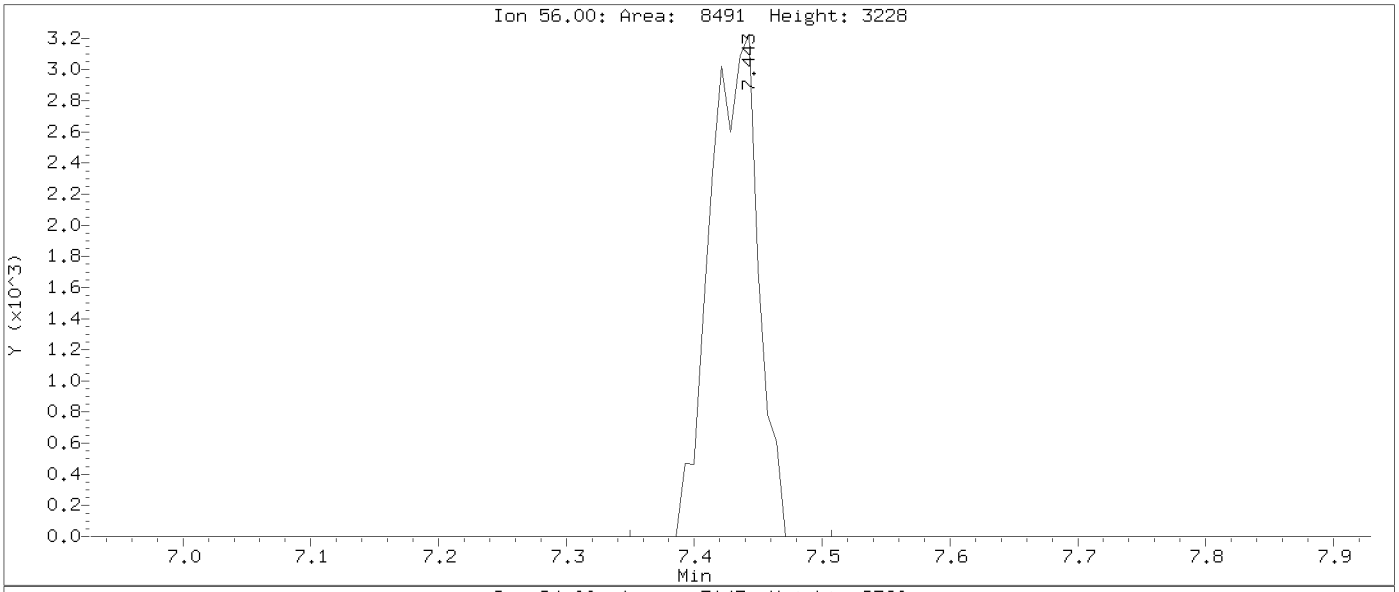
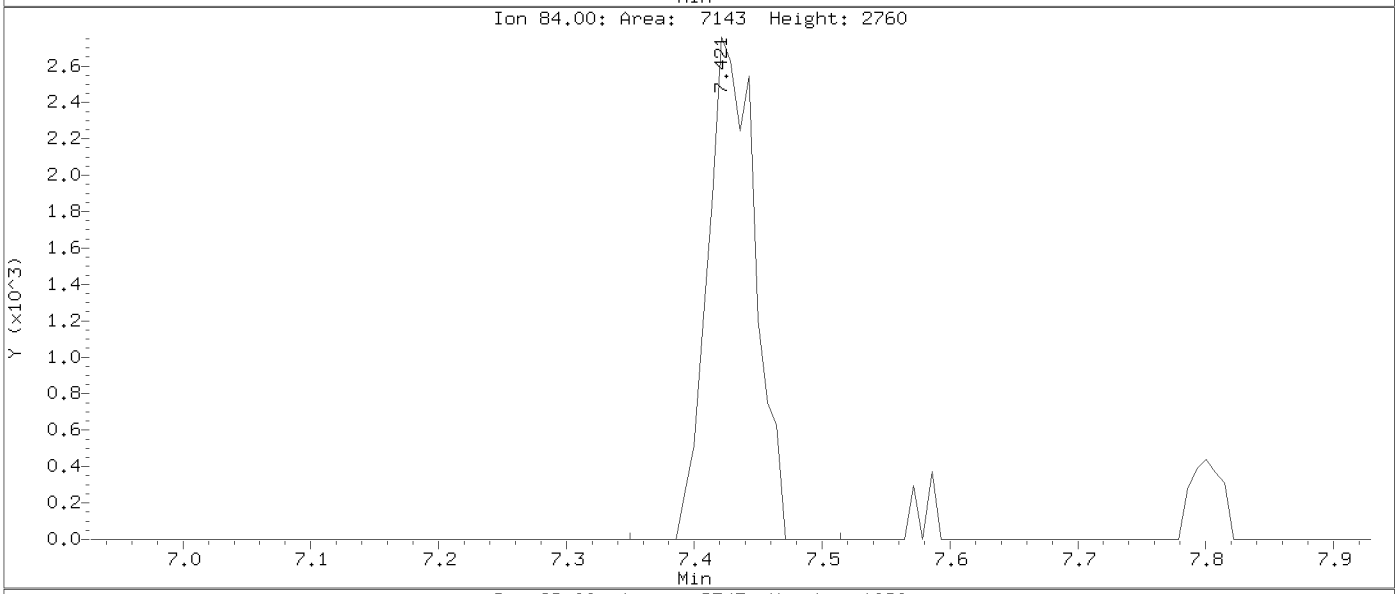
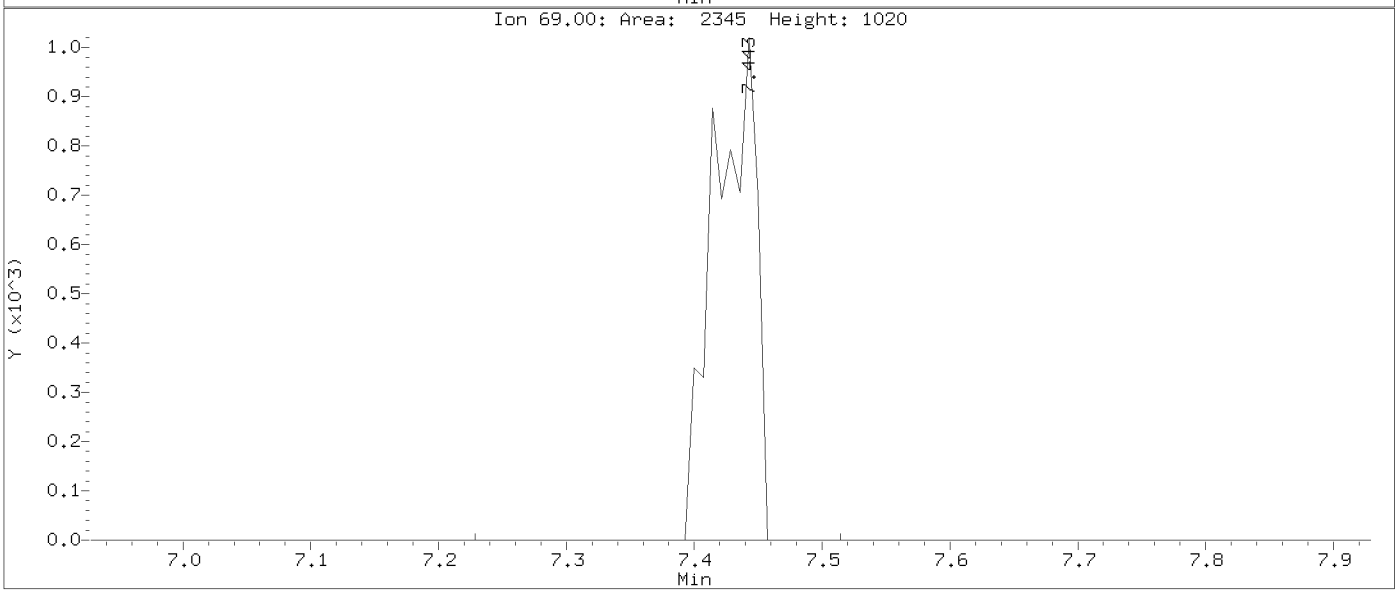
Instrument: gcms-p.i
Client Sample ID:

Compound: Cyclohexane
CAS Number: 1735-17-7

AFTER MANUAL INTEGRATION







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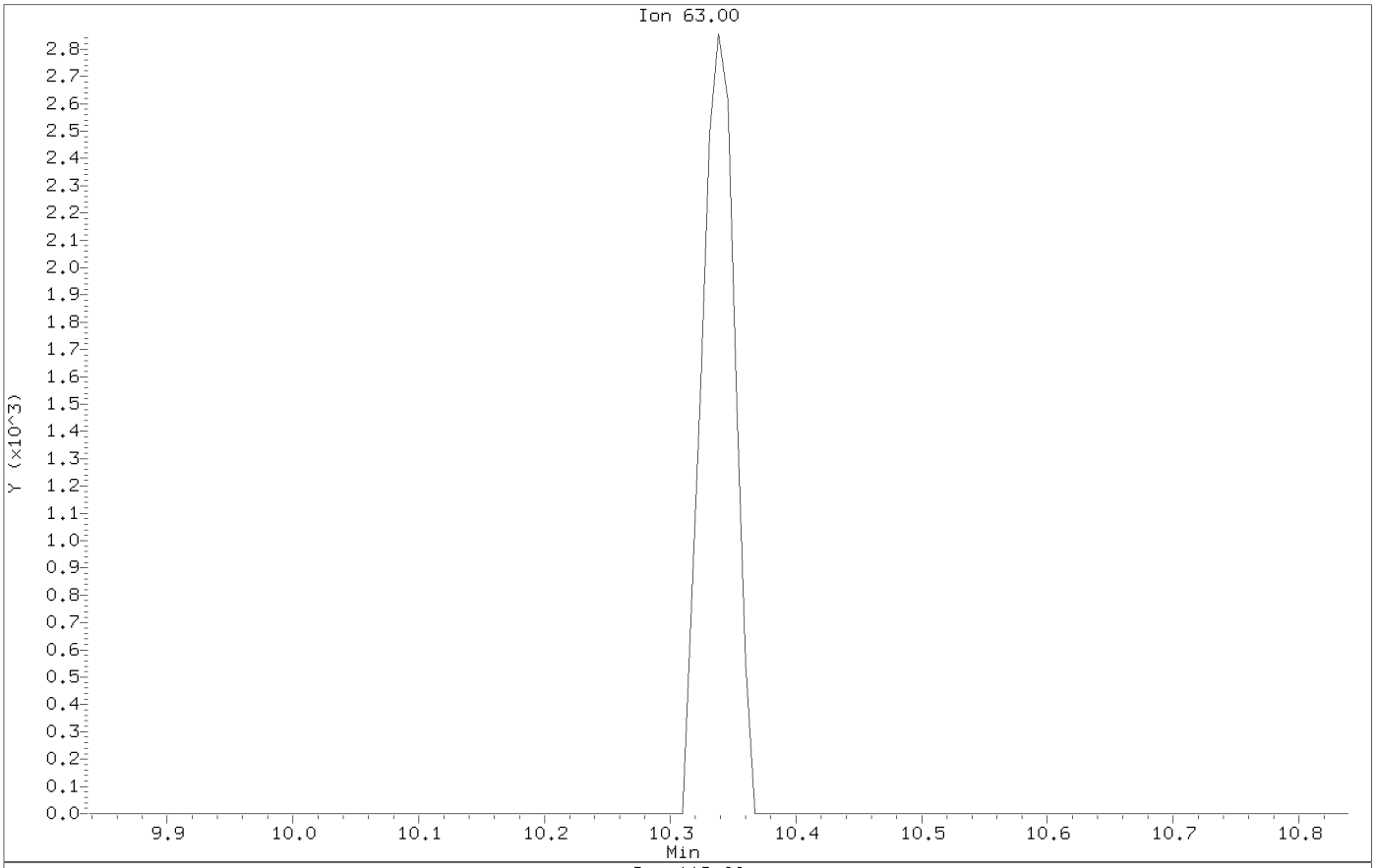
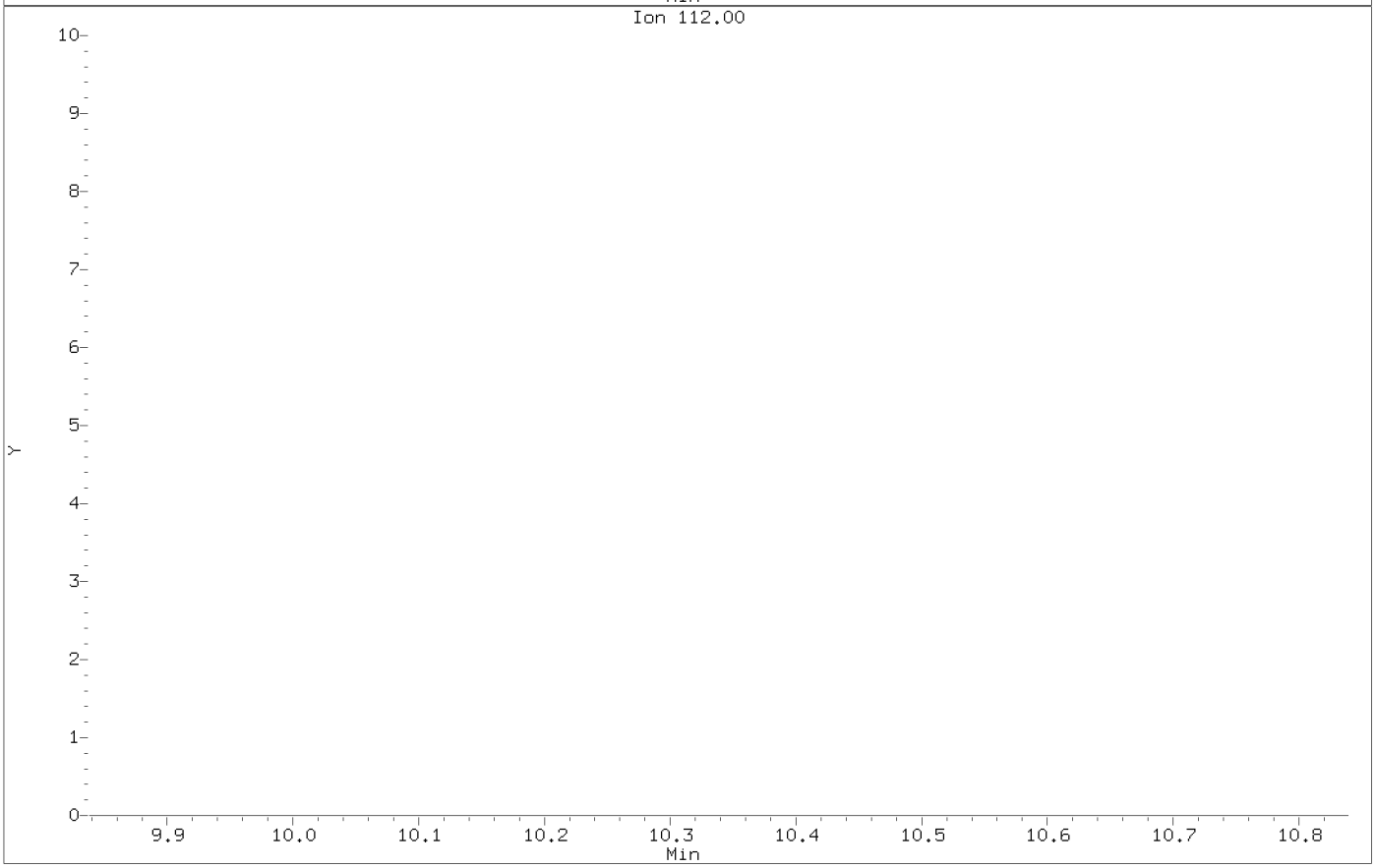
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

BEFORE MANUAL INTEGRATION





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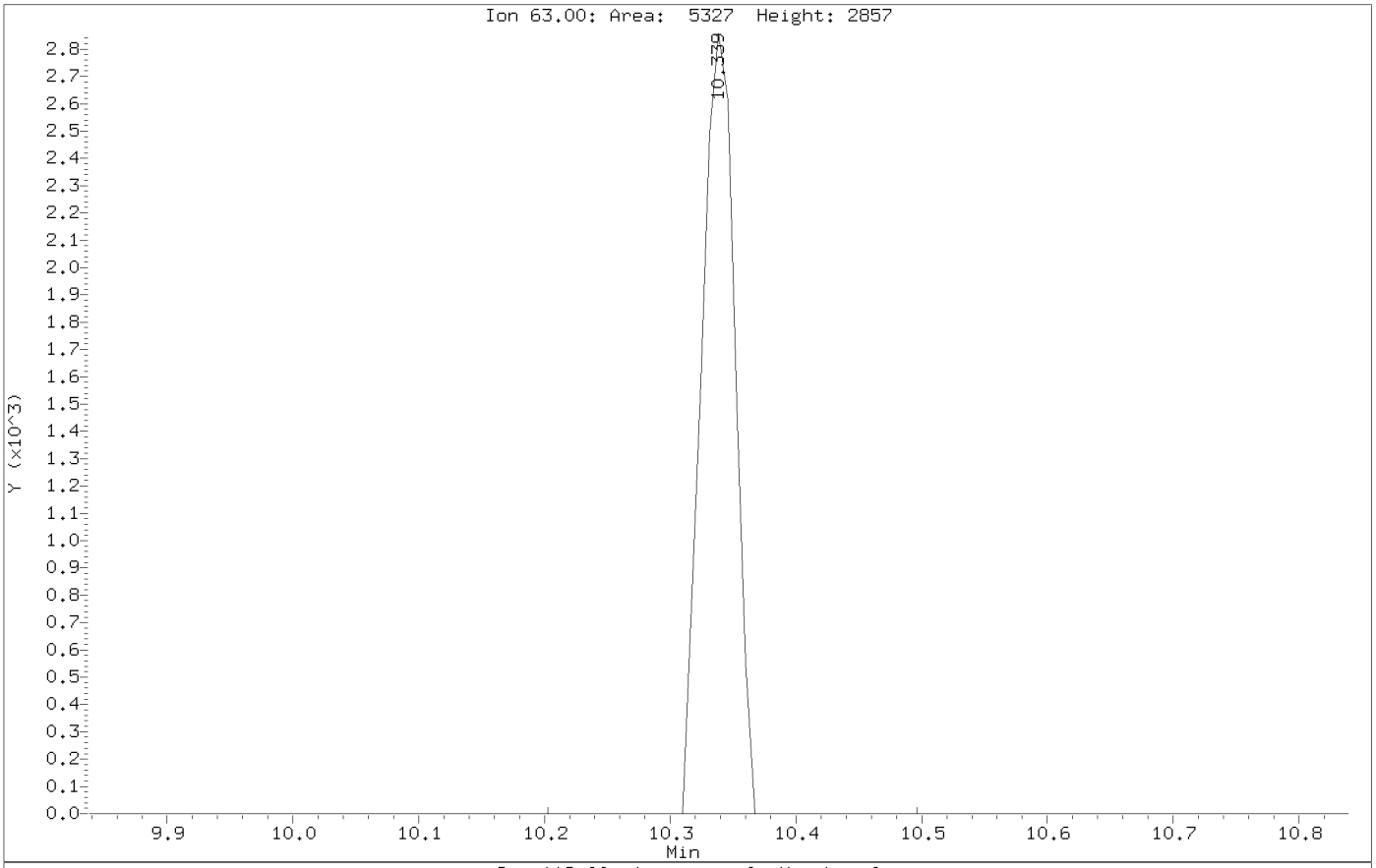
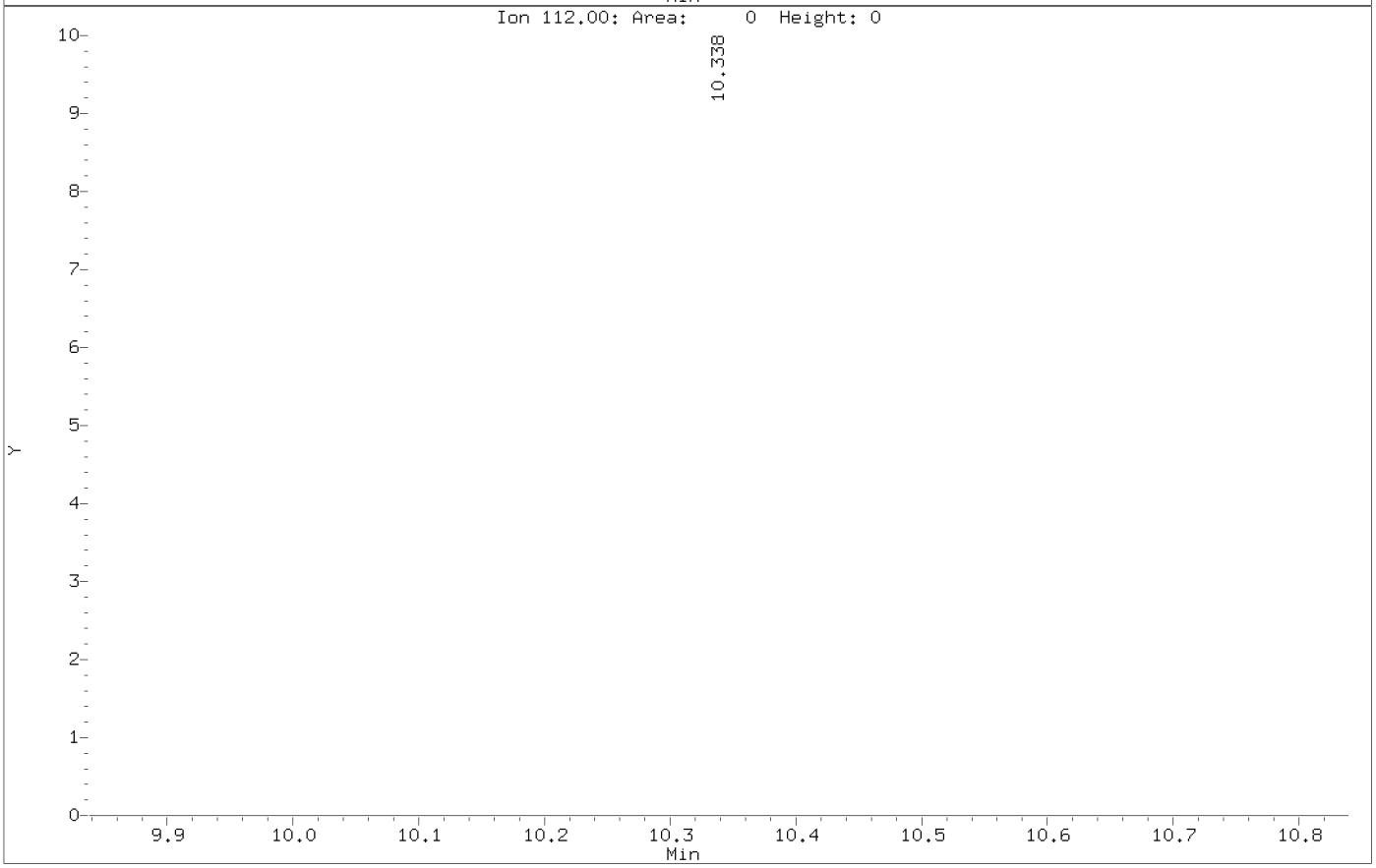
Instrument: gcms-p.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

AFTER MANUAL INTEGRATION





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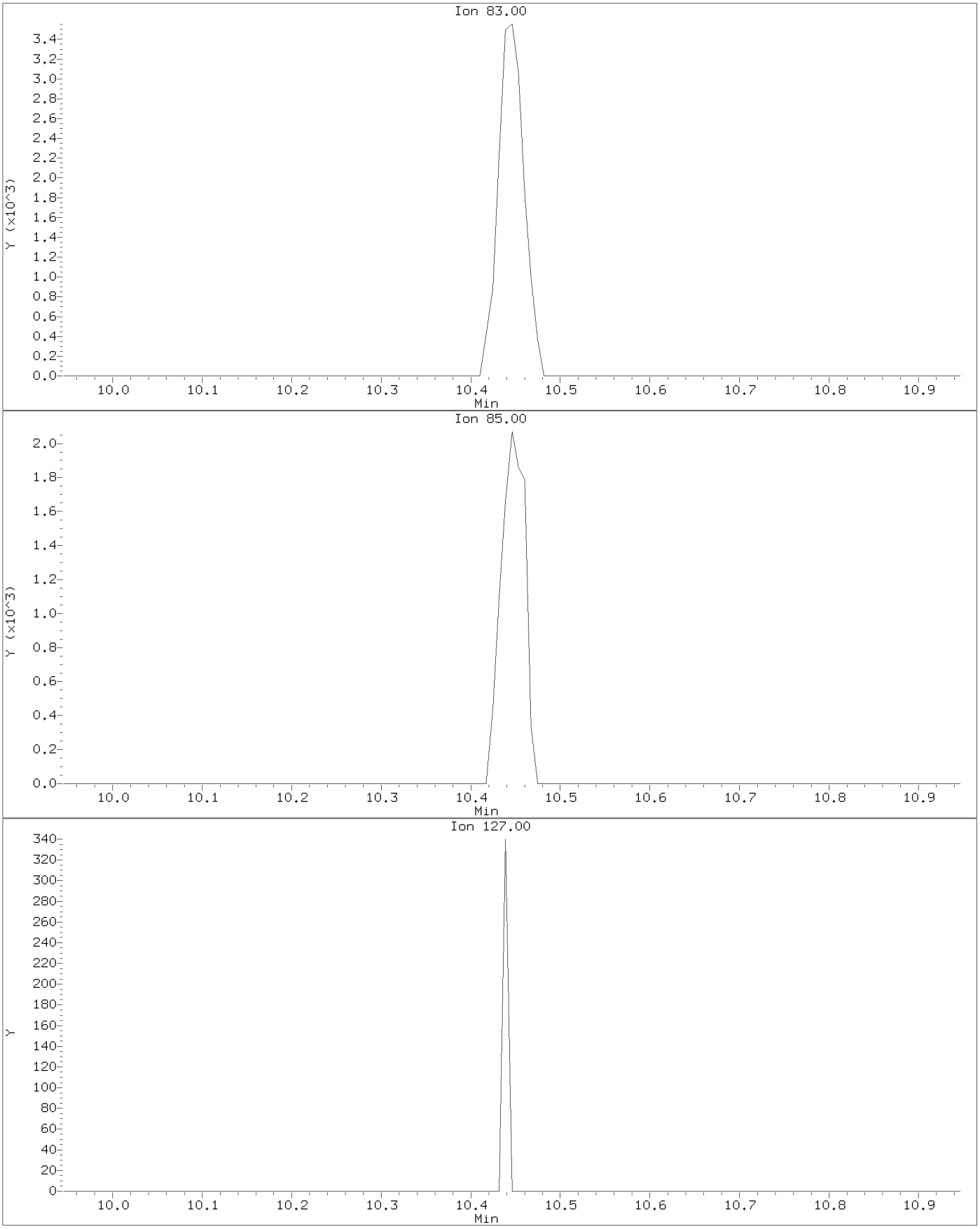
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromodichloromethane
CAS Number: 75-27-4

BEFORE MANUAL INTEGRATION



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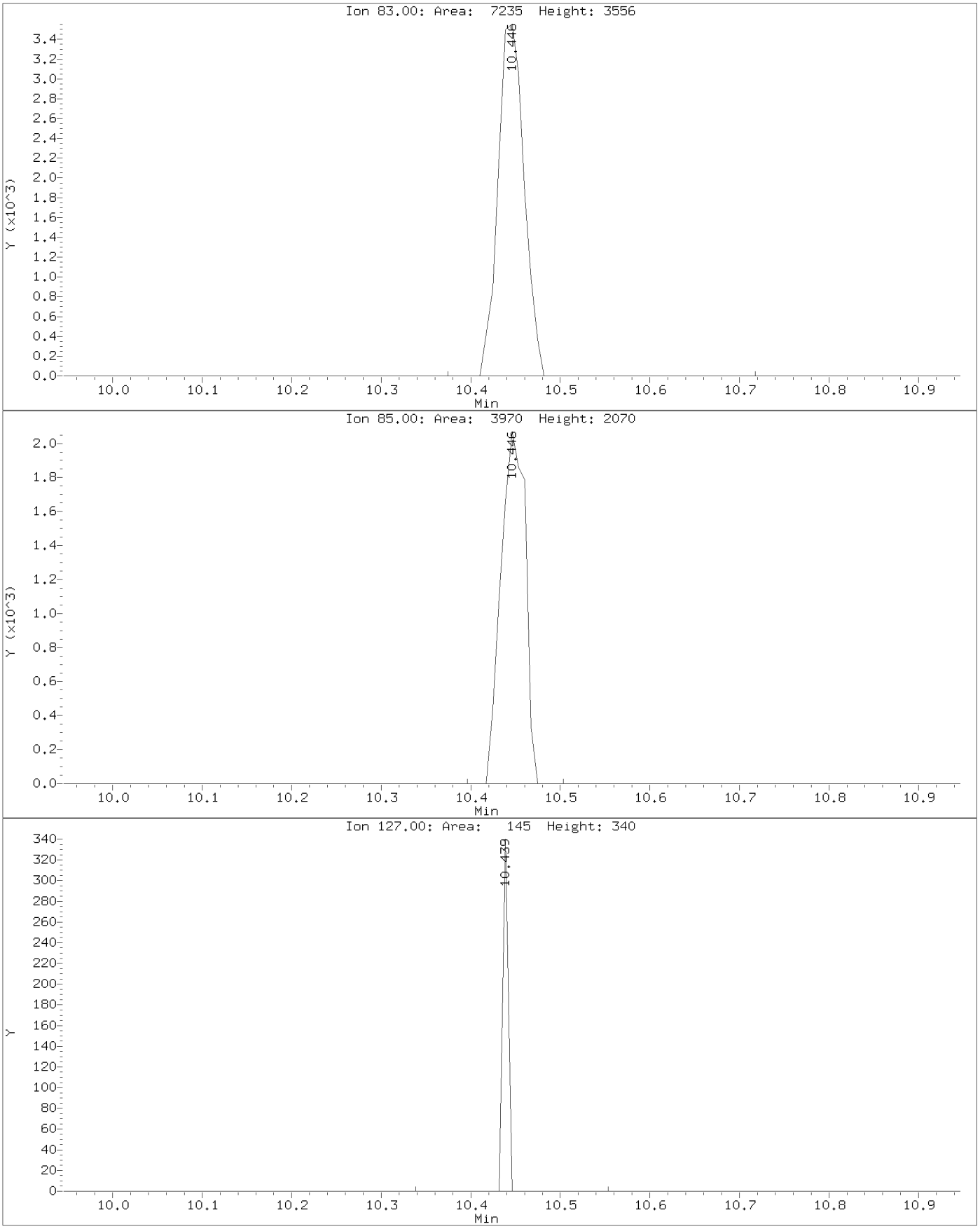
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromodichloromethane
CAS Number: 75-27-4

AFTER MANUAL INTEGRATION



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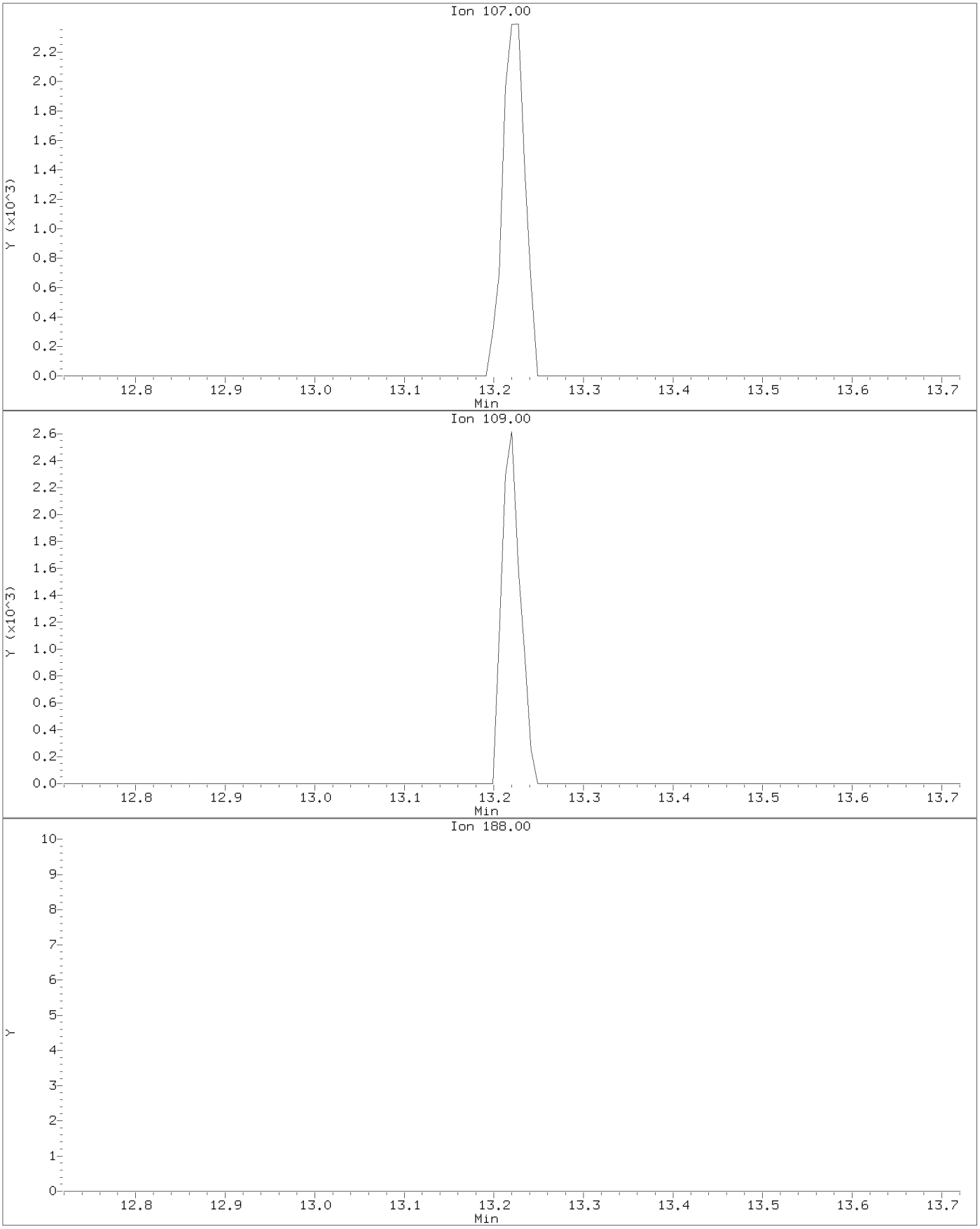
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

BEFORE MANUAL INTEGRATION



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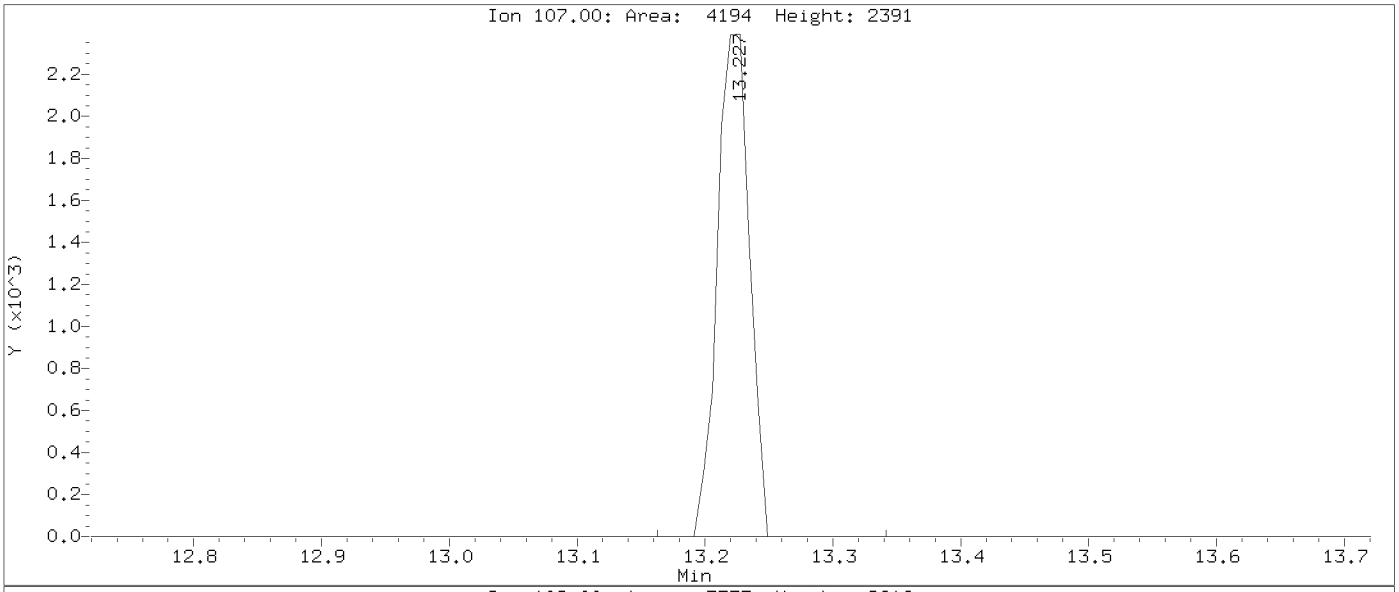
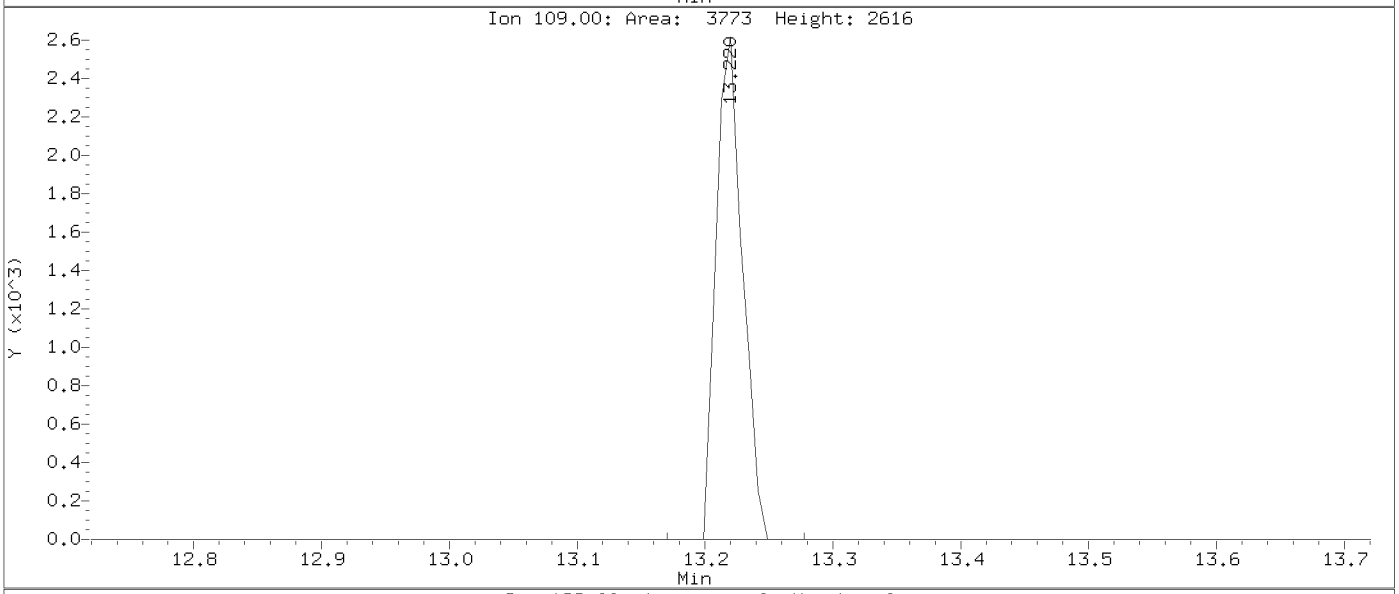
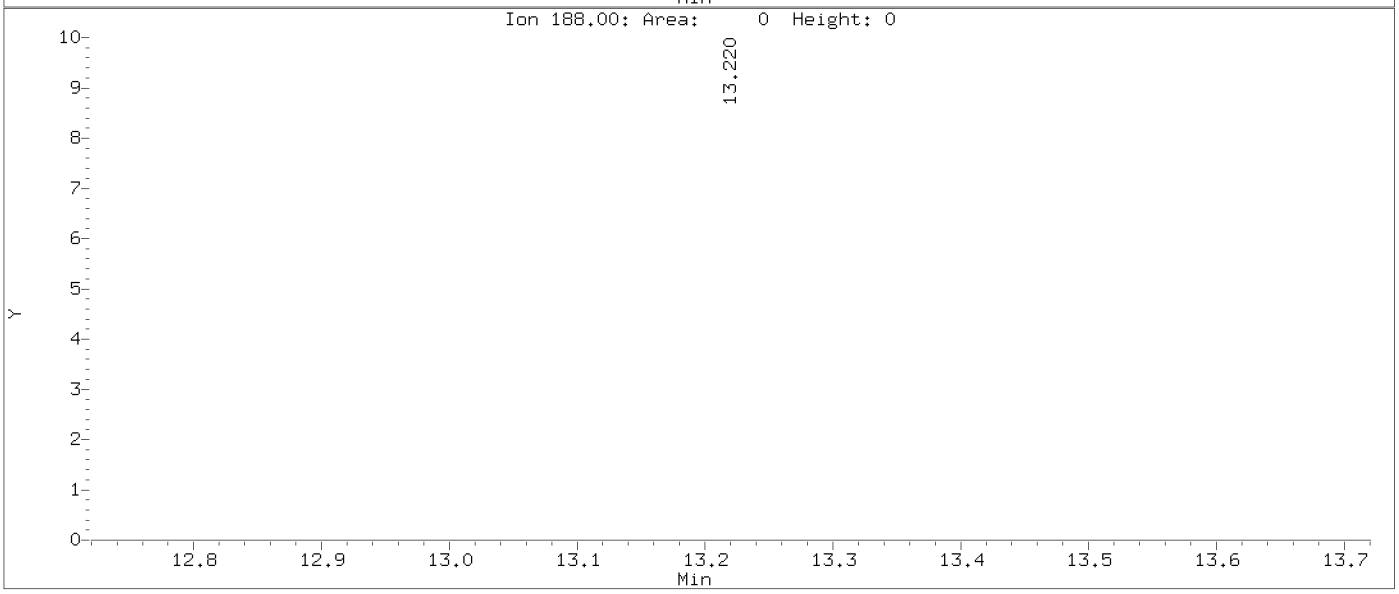
Instrument: gcms-p.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

AFTER MANUAL INTEGRATION







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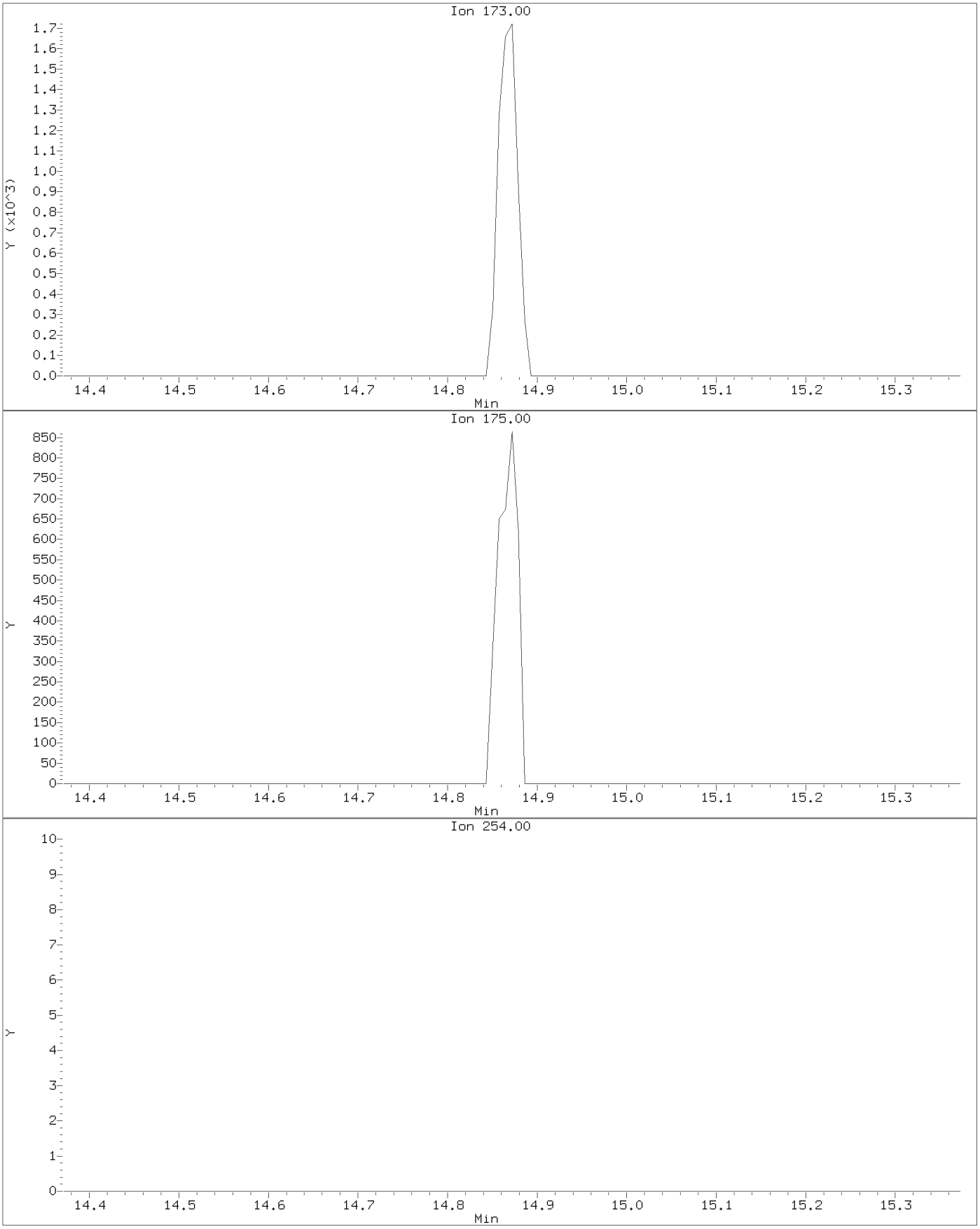
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

BEFORE MANUAL INTEGRATION



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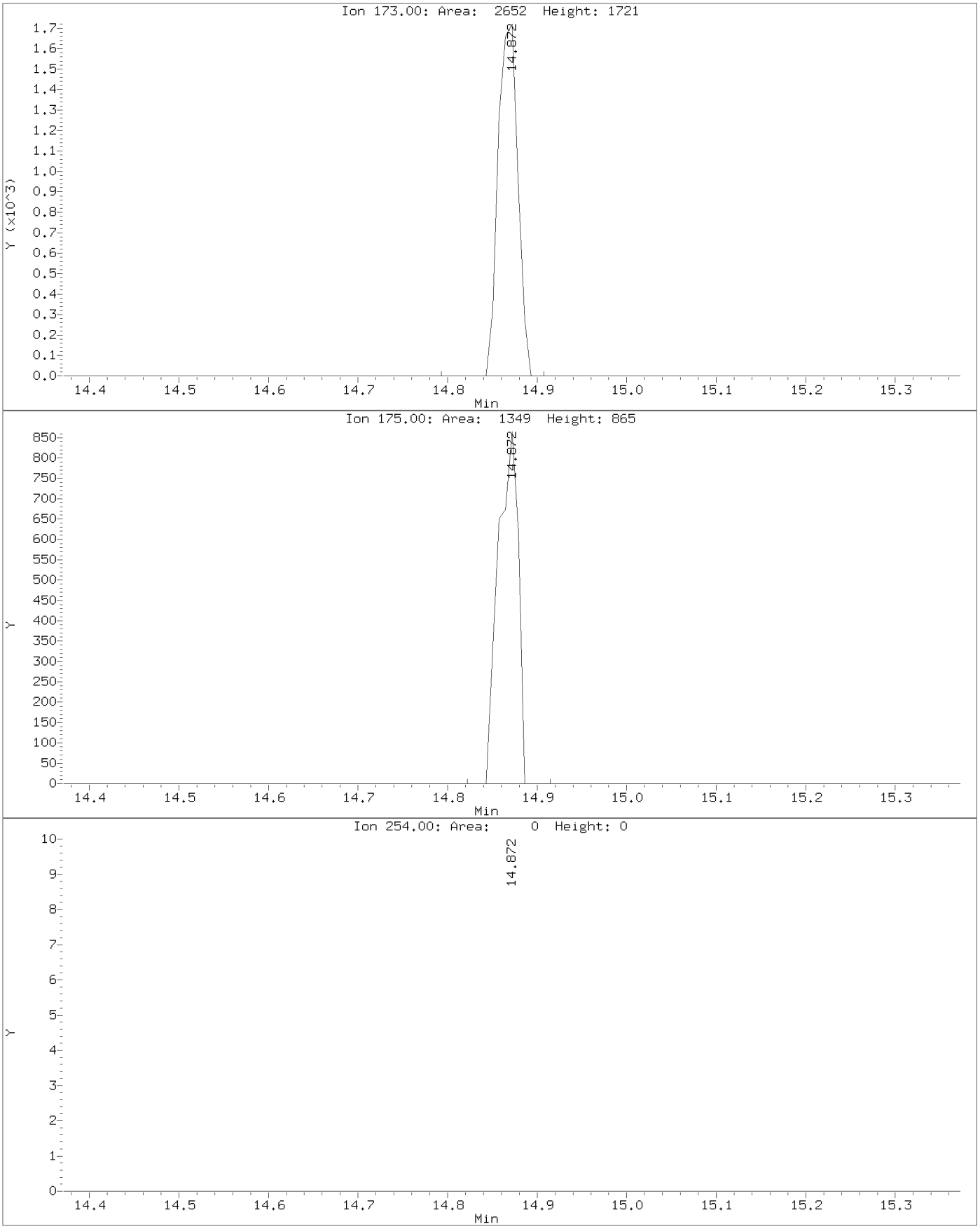
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

AFTER MANUAL INTEGRATION



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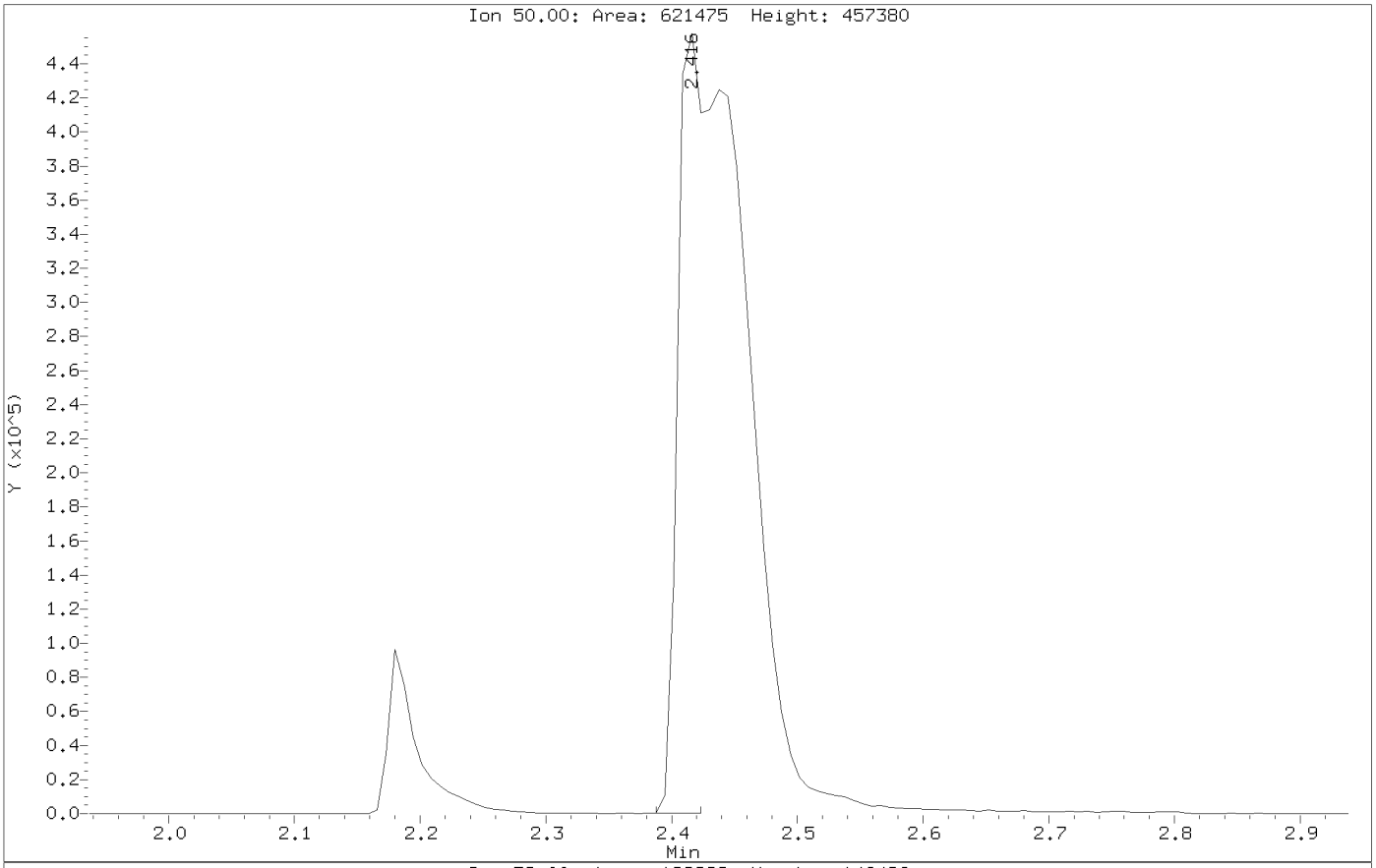
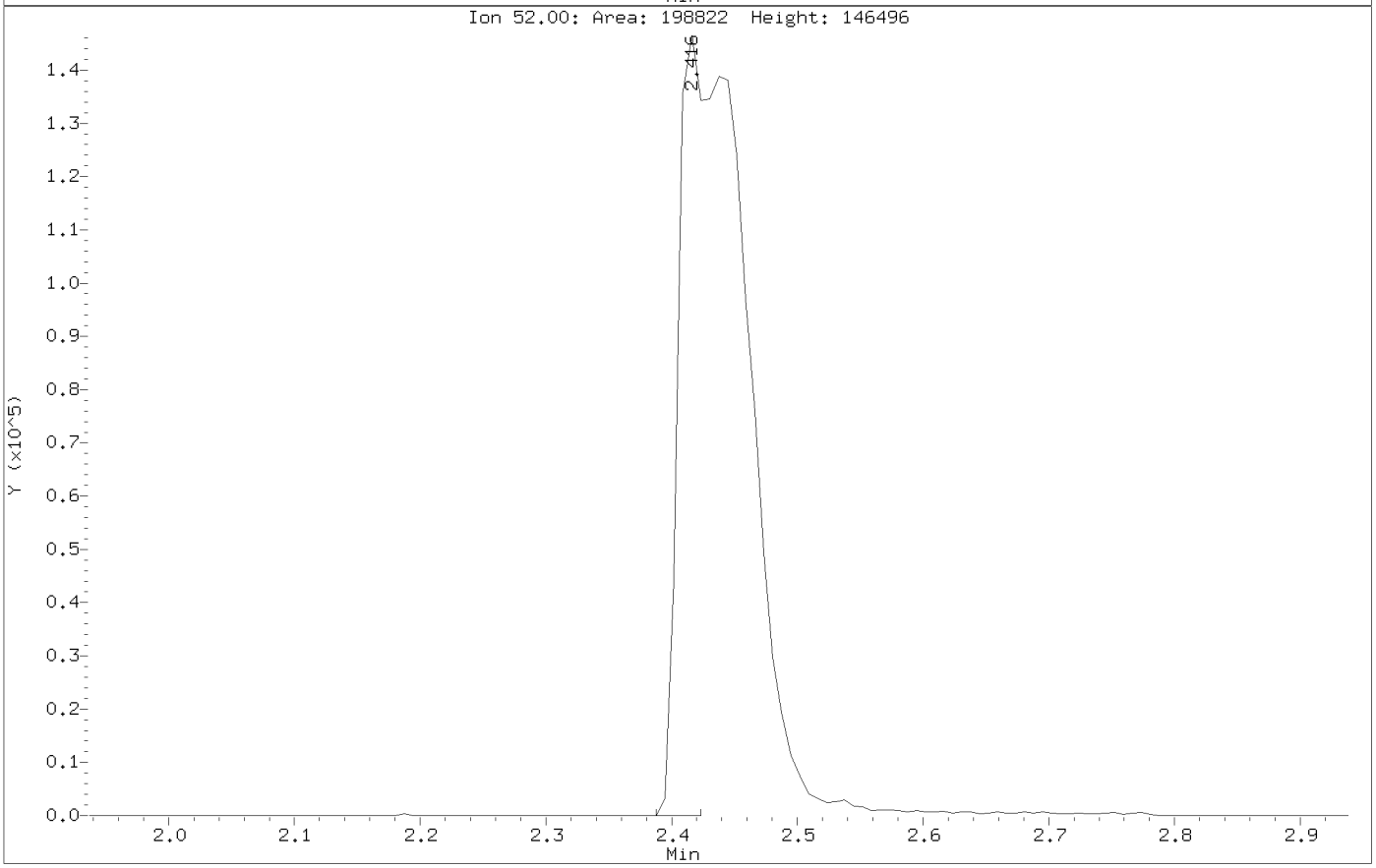
Injection Date: 22-JUN-2015 11:47
Instrument: gcms-p.i
Client Sample ID:

Compound: Chloromethane
CAS Number: 74-87-3

BEFORE MANUAL INTEGRATION





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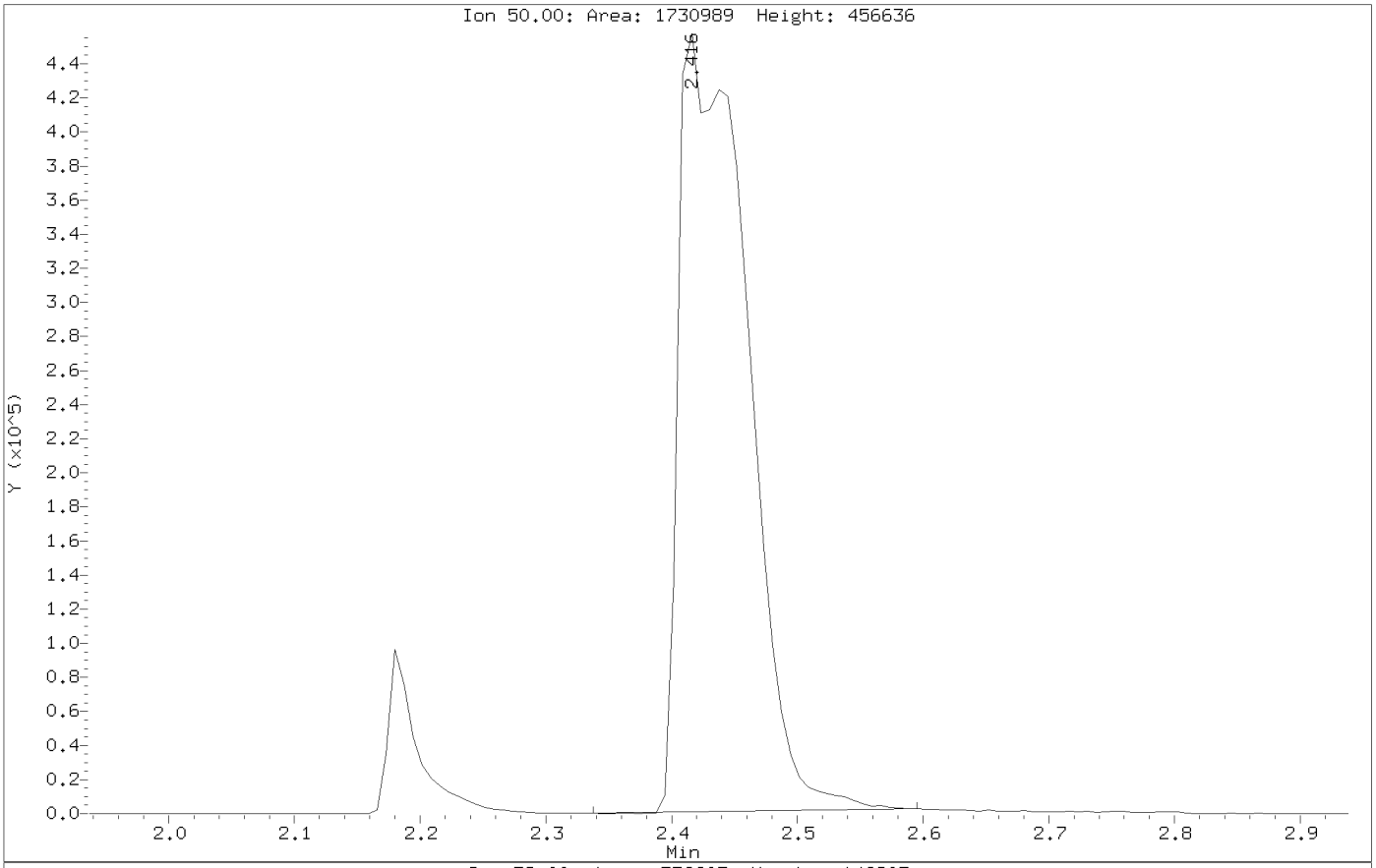
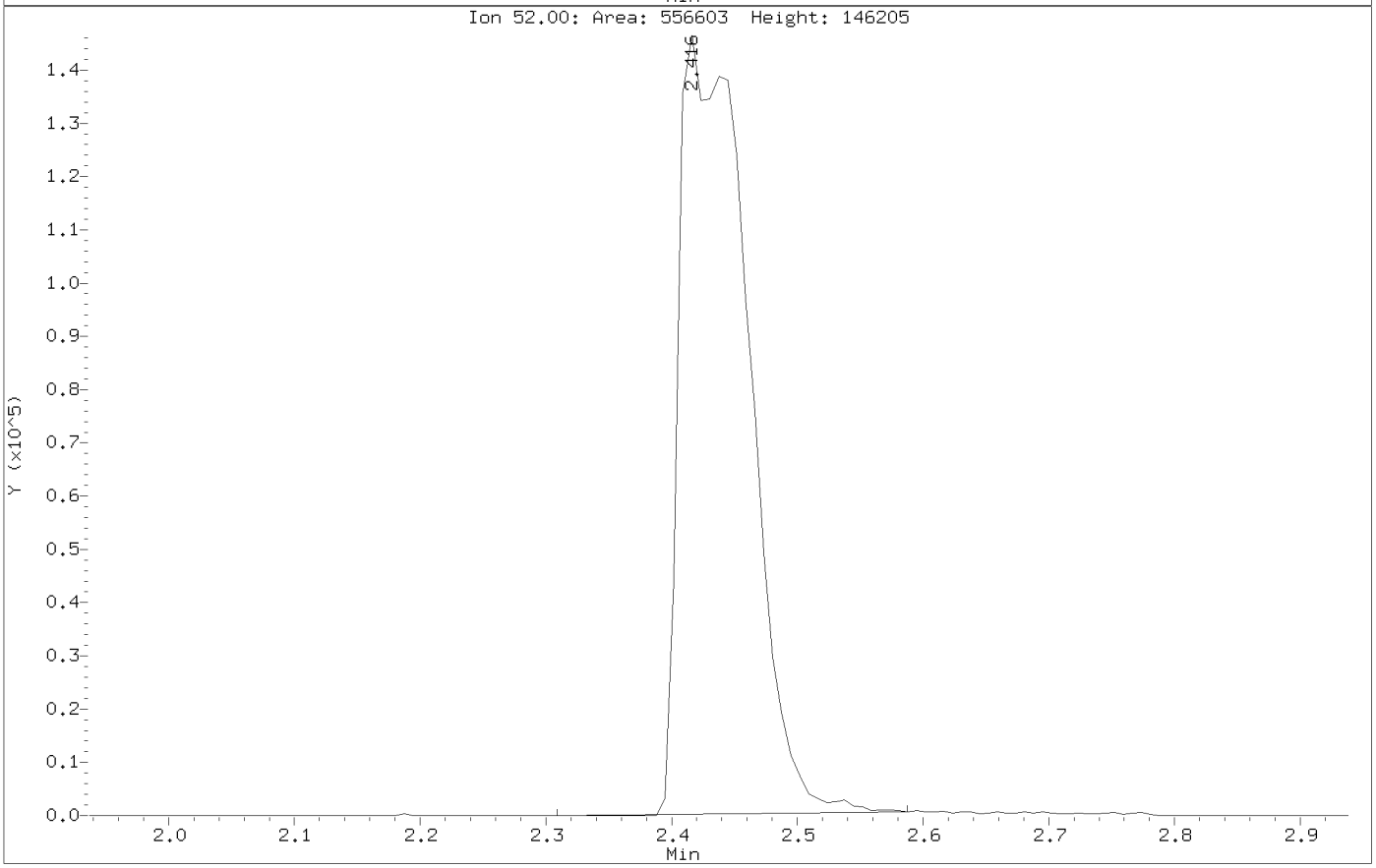
Instrument: gcms-p.i
Client Sample ID:

Compound: Chloromethane
CAS Number: 74-87-3

AFTER MANUAL INTEGRATION





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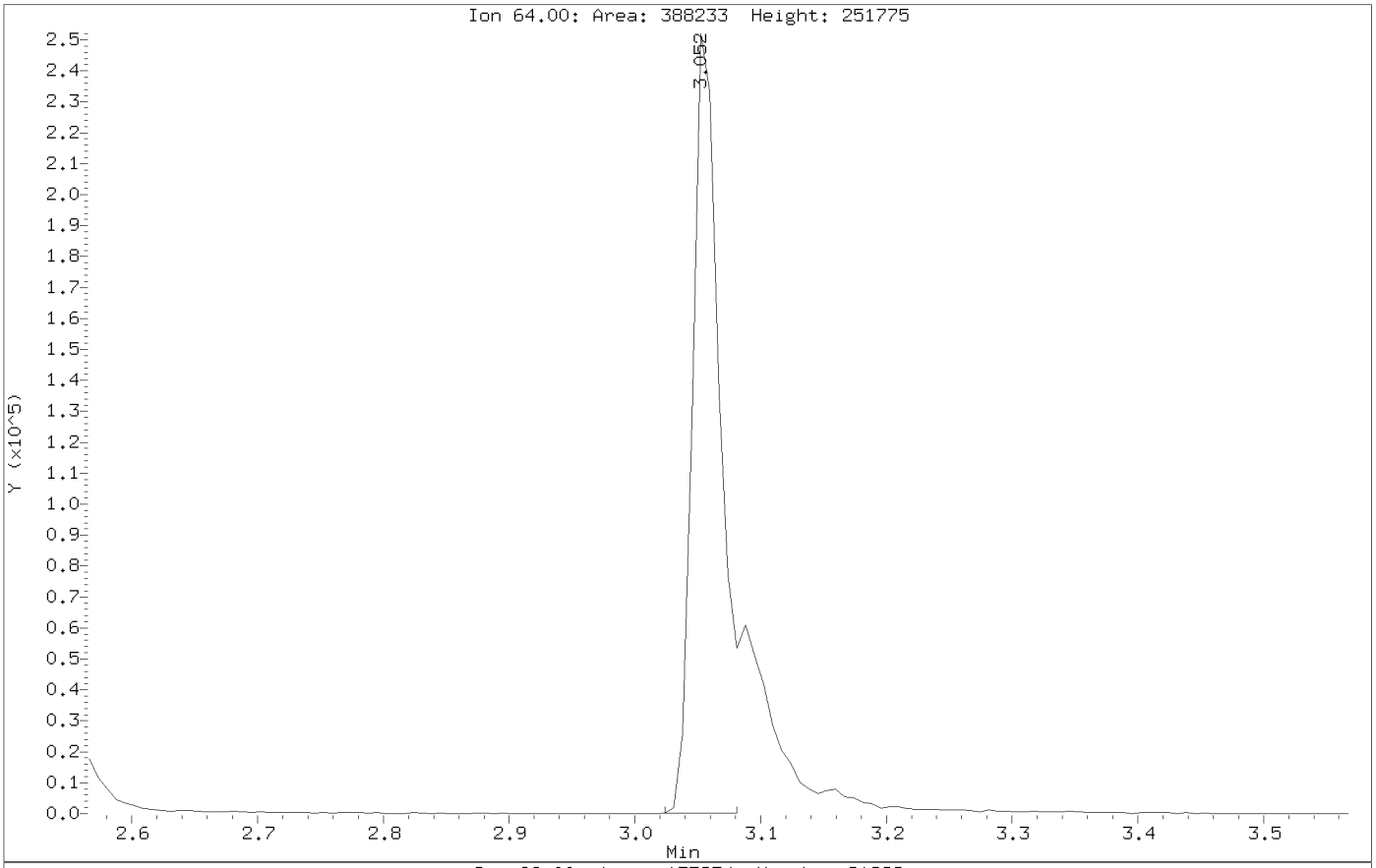
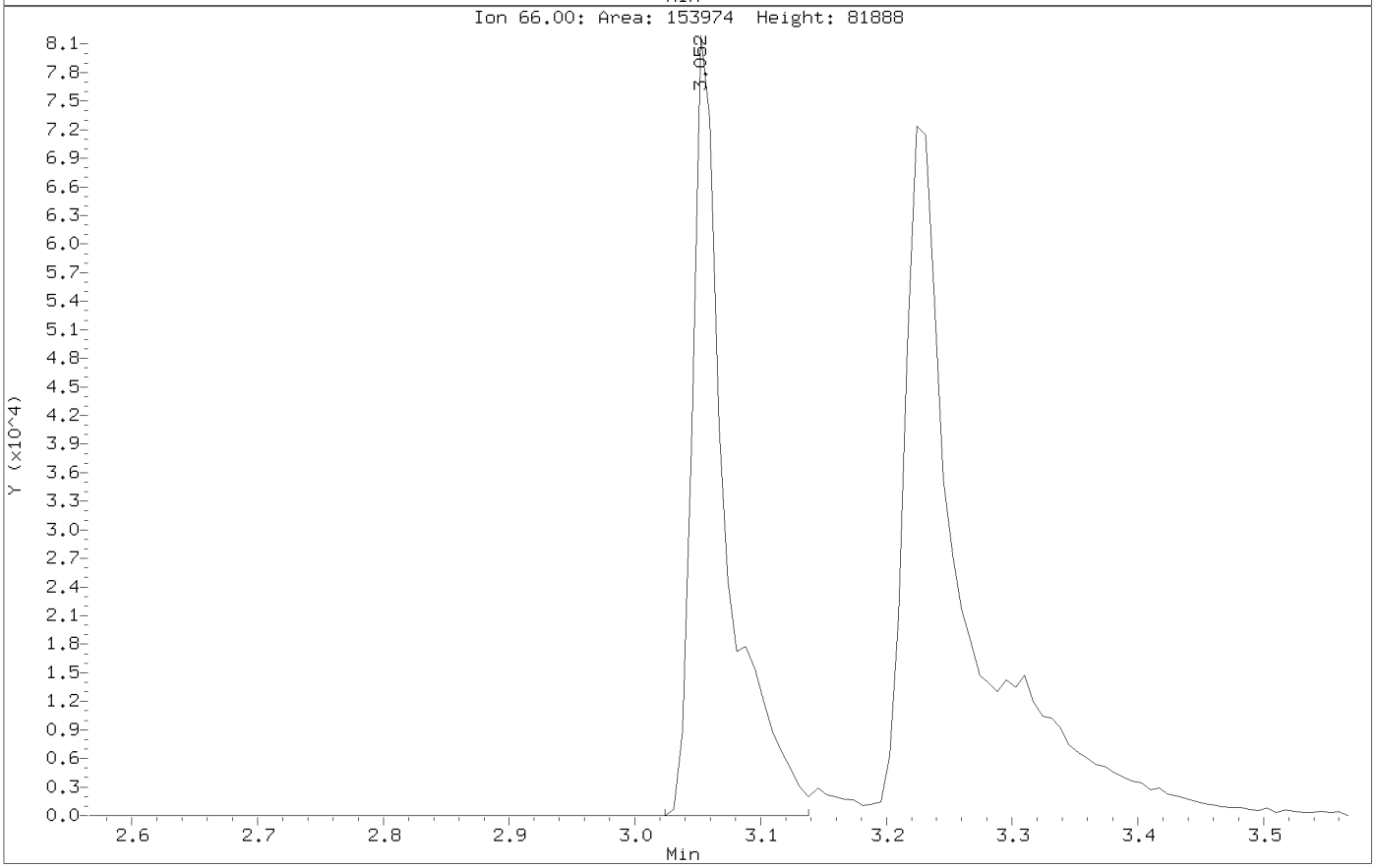
Injection Date: 22-JUN-2015 11:47
Instrument: gcms-p.i
Client Sample ID:

Compound: Chloroethane
CAS Number: 75-00-3

BEFORE MANUAL INTEGRATION





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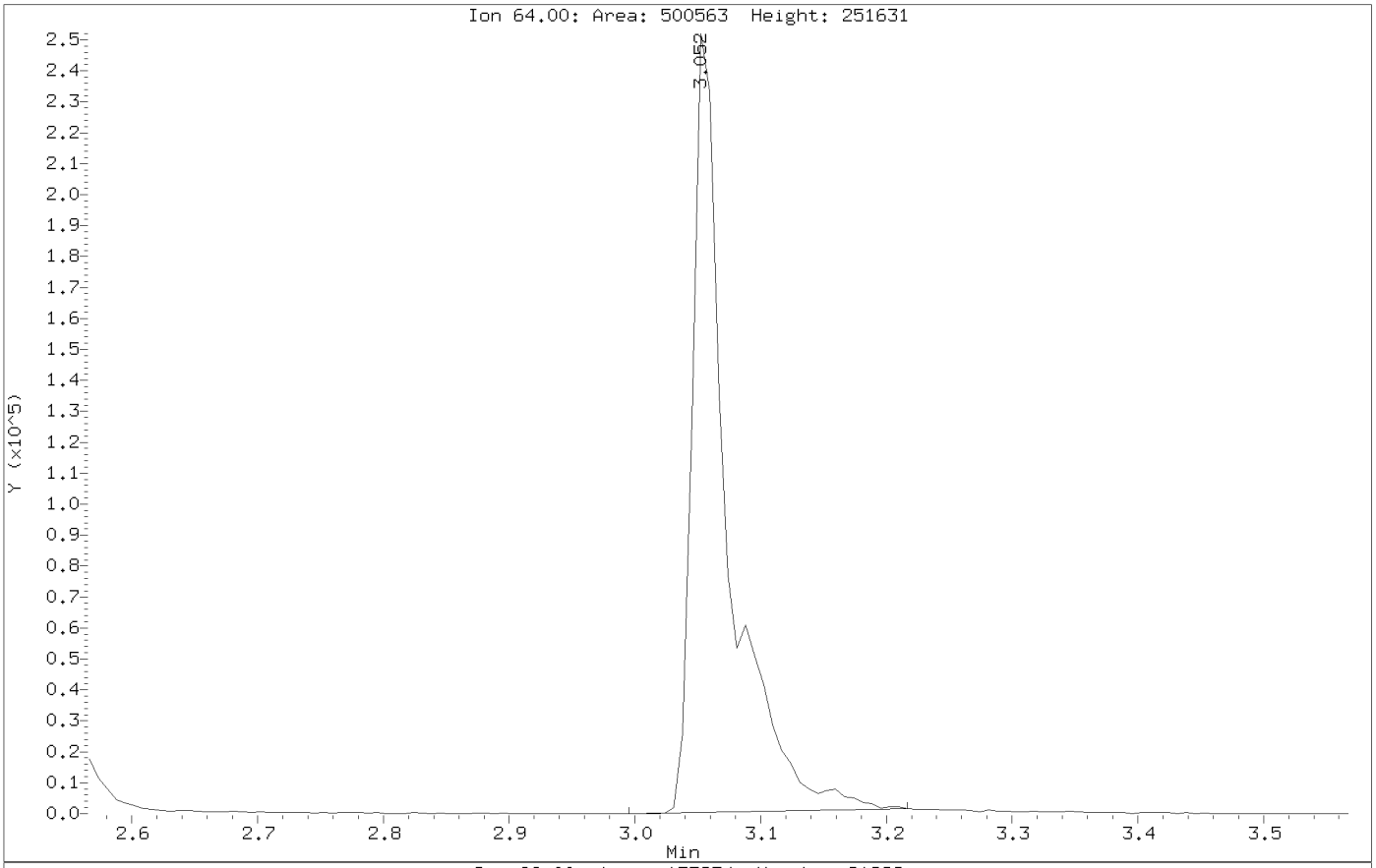
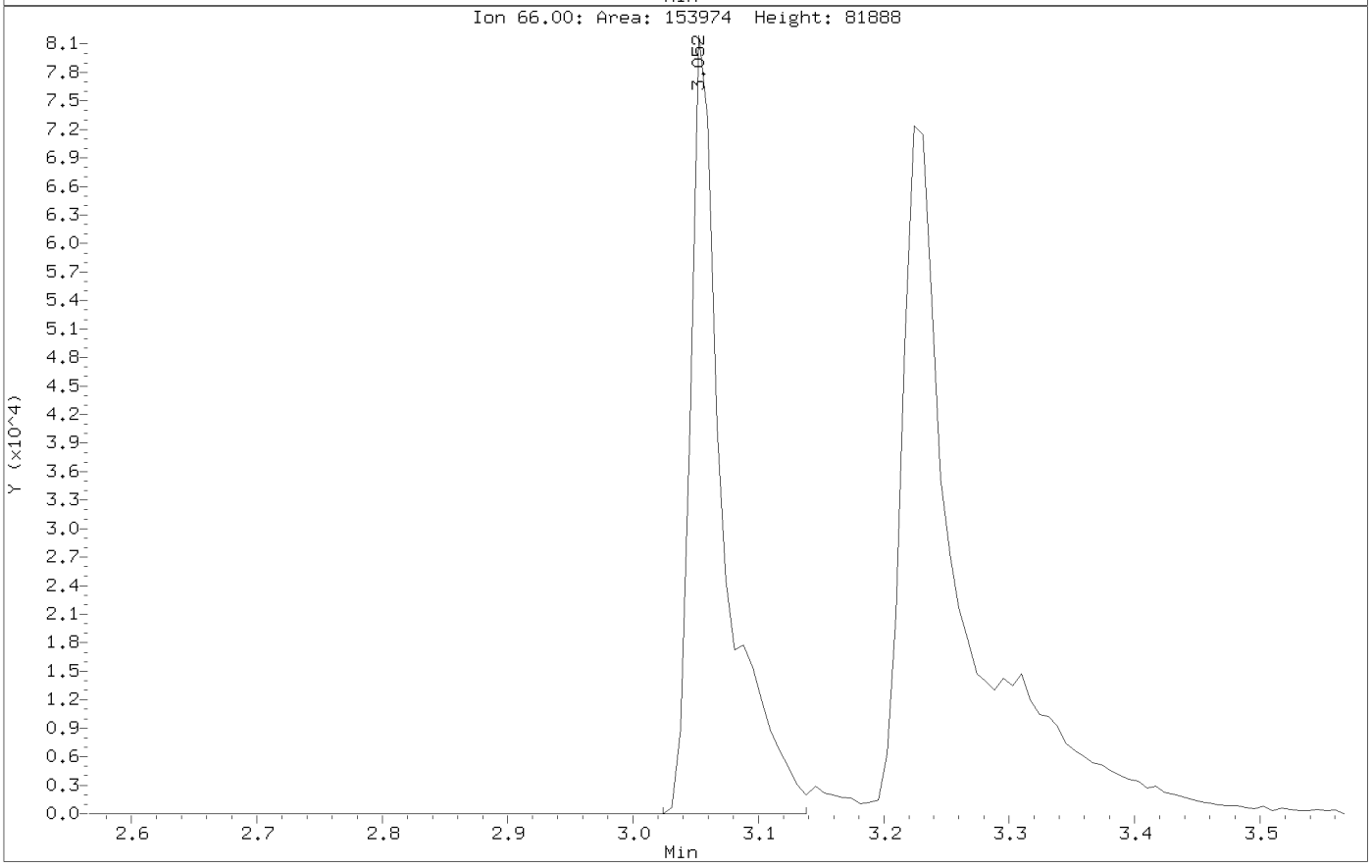
Client Sample ID:

Compound: Chloroethane
CAS Number: 75-00-3

AFTER MANUAL INTEGRATION

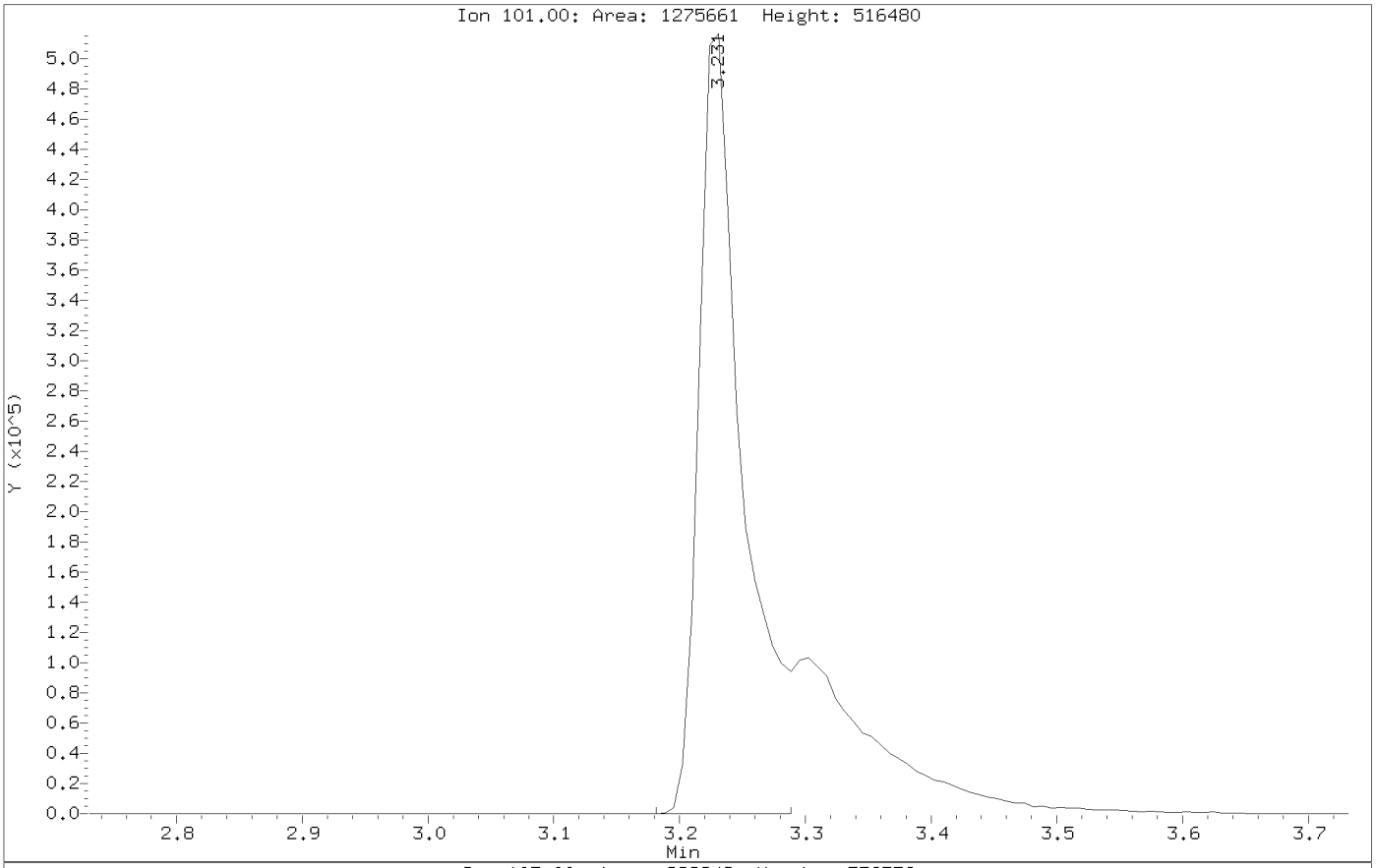


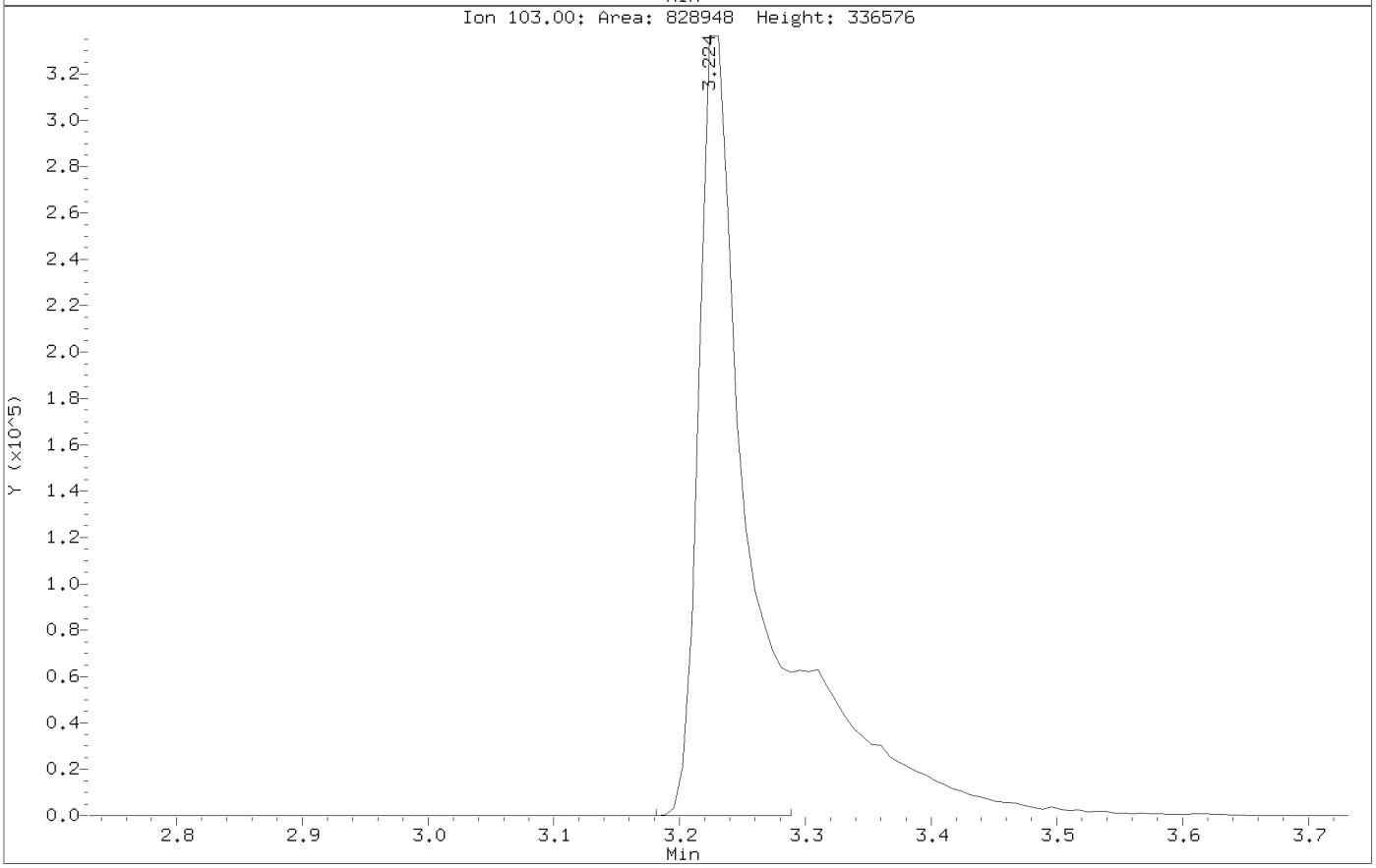


Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1537.D
Injection Date: 22-JUN-2015 11:47
Instrument: gcms-p.i
Client Sample ID:

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

BEFORE MANUAL INTEGRATION

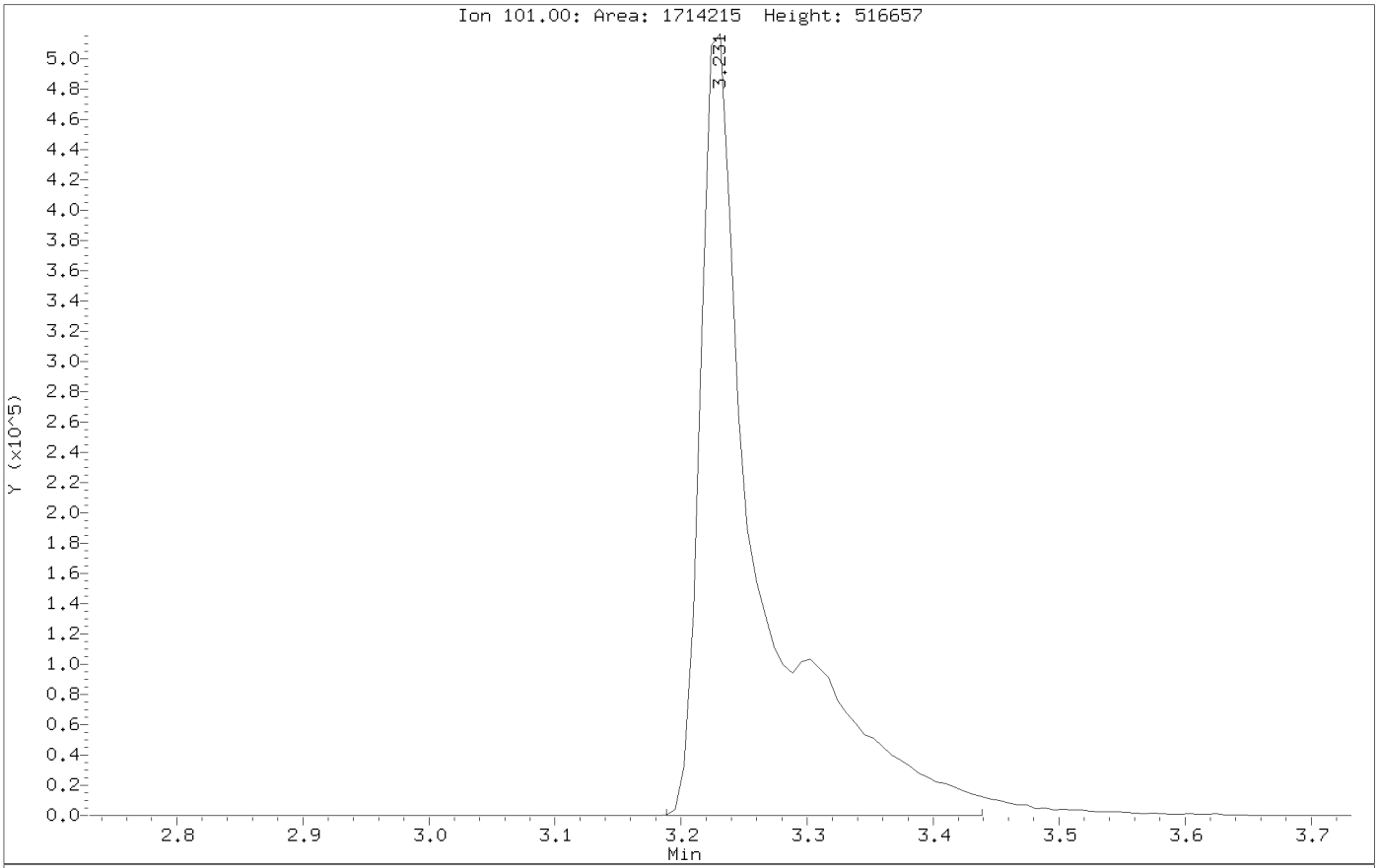


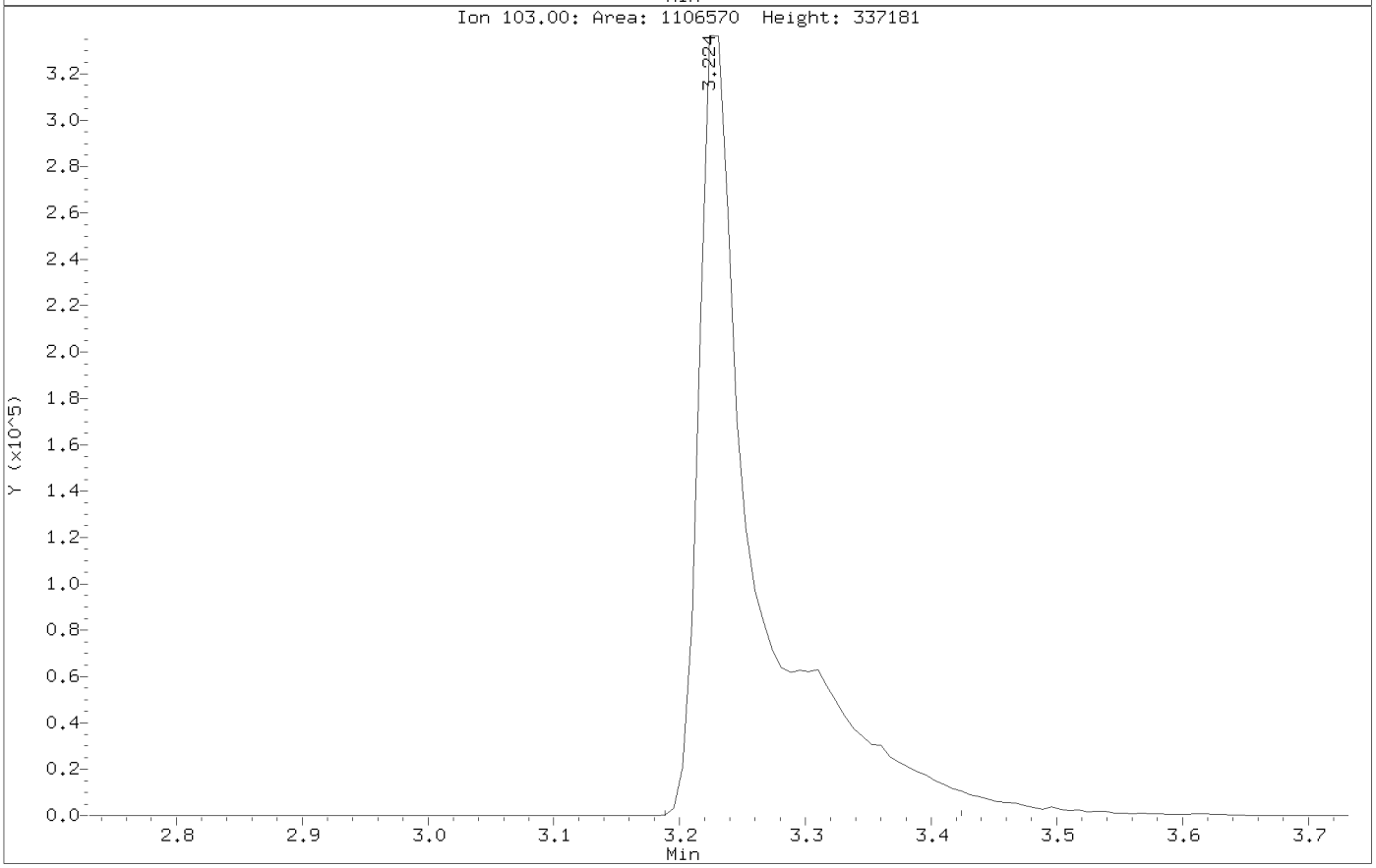


Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1537.D
Injection Date: 22-JUN-2015 11:47
Instrument: gcms-p.i
Client Sample ID:

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

AFTER MANUAL INTEGRATION





Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D
Report Date: 23-Jun-2015 11:39

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D
Lab Smp Id: WG165276-7 Client Smp ID: Independent Source
Inj Date : 22-JUN-2015 12:59 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165276-7
Misc Info : WG165276,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062215.b\P826A09.m
Meth Date : 22-Jun-2015 12:37 rcrocker Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 7 QC Sample: INDSOURCE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.181	2.187	(0.250)	298144	51.4219	51.4	
2 Chloromethane	50	2.439	2.437	(0.280)	472779	57.0969	57.1	
3 Vinyl chloride	62	2.517	2.516	(0.289)	332441	54.7315	54.7	
4 Bromomethane	94	2.911	2.909	(0.334)	168185	53.2621	53.3	
5 Chloroethane	64	3.068	3.067	(0.352)	249858	63.7494	63.7(R)	
6 Trichlorofluoromethane	101	3.232	3.231	(0.371)	423377	52.4261	52.4	
7 Diethyl Ether	59	3.611	3.617	(0.414)	273717	55.1466	55.1	
8 Tertiary-butyl alcohol	59	5.306	5.305	(0.609)	94301	225.290	225	
9 1,1-Dichloroethene	96	3.890	3.889	(0.446)	238793	54.7658	54.8	
10 Carbon Disulfide	76	3.947	3.953	(0.453)	901303	56.3782	56.4	
11 Freon-113	151	3.933	3.939	(0.451)	148278	53.3303	53.3	
12 Iodomethane	142	4.112	4.111	(0.472)	198901	45.5954	45.6	
13 Acrolein	56	4.362	4.368	(0.500)	311659	280.075	280	
14 Methylene Chloride	84	4.734	4.733	(0.543)	309354	51.9131	51.9	
15 Acetone	43	4.805	4.804	(0.551)	101318	52.1882	52.2	
16 Isobutyl Alcohol	43	8.967	8.966	(1.029)	186506	963.644	964	
17 trans-1,2-Dichloroethene	96	4.984	4.983	(0.572)	266424	57.3501	57.4	
18 Allyl Chloride	41	4.569	4.568	(0.524)	383659	55.9926	56.0	
19 Methyl tert-butyl ether	73	5.149	5.147	(0.591)	1660831	114.181	114	
20 Acetonitrile	39	5.599	5.598	(0.642)	82928	512.673	513	
21 Di-isopropyl ether	45	5.828	5.827	(0.669)	1017087	56.1915	56.2	
22 Chloroprene	53	6.028	6.027	(0.692)	482005	54.9927	55.0	
23 Propionitrile	54	8.624	8.622	(0.989)	431576	554.936	555	
24 Methacrylonitrile	41	8.652	8.651	(0.993)	1740096	551.587	552	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D
Report Date: 23-Jun-2015 11:39

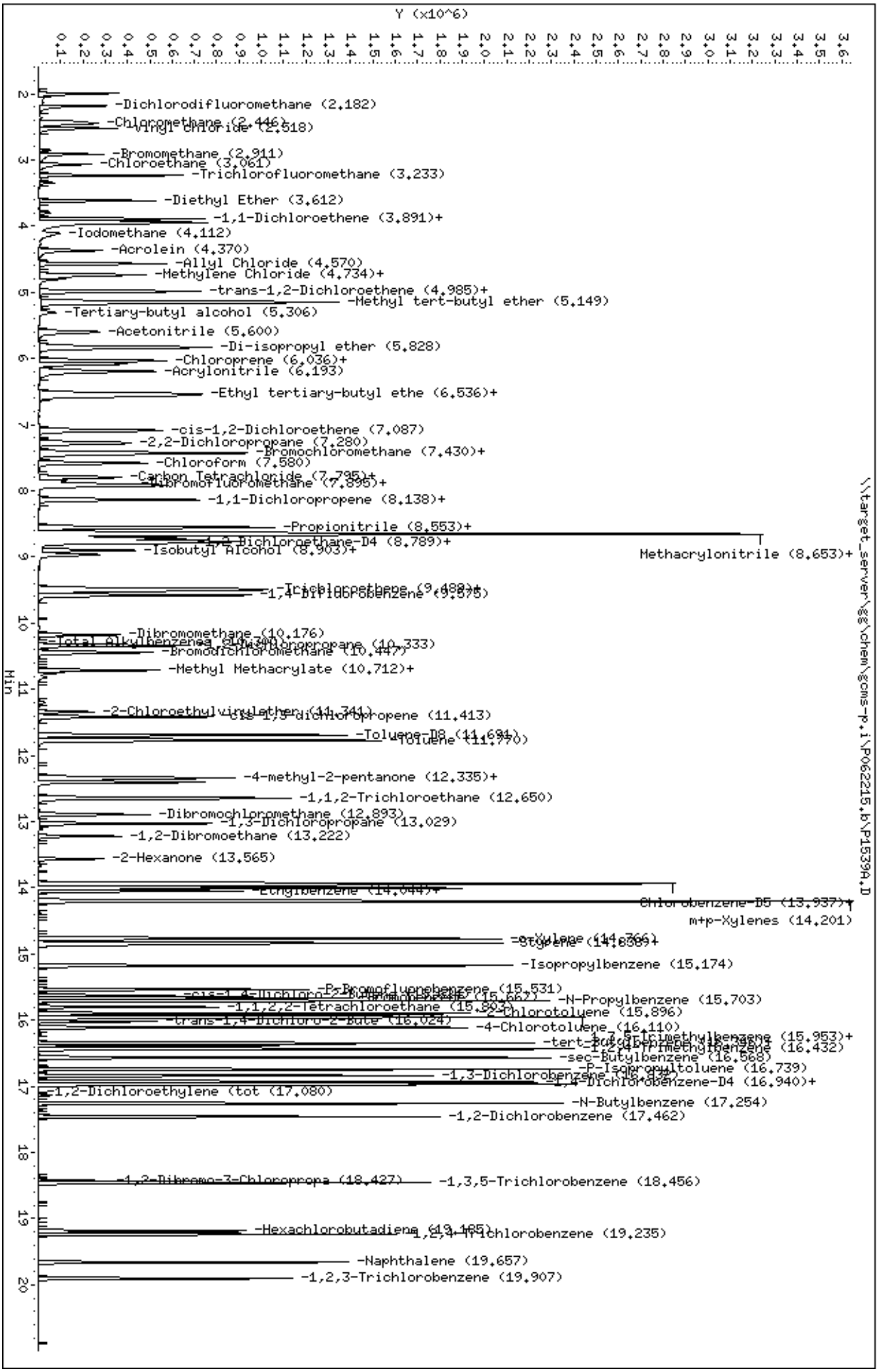
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.078	6.084	(0.697)	496334	55.0047	55.0	
	26	Acrylonitrile	52	6.193	6.191	(0.710)	518762	275.355	275	
	27	Ethyl tertiary-butyl ether	59	6.536	6.535	(0.750)	901473	56.8765	56.9	
	28	Vinyl Acetate	43	6.571	6.570	(0.686)	736357	54.9514	55.0	
	29	cis-1,2-Dichloroethene	96	7.086	7.085	(0.813)	277433	48.8128	48.8	
M	30	1,2-Dichloroethylene (total)	96				543857	106.163	106	
	31	Methyl Methacrylate	41	10.711	10.710	(1.119)	269111	56.3224	56.3	
	32	2,2-Dichloropropane	77	7.279	7.278	(0.835)	345996	53.1270	53.1	
	33	Bromochloromethane	128	7.444	7.435	(0.854)	115083	52.0911	52.1	
	34	Chloroform	83	7.580	7.578	(0.870)	469014	50.8683	50.9	
	35	Carbon Tetrachloride	117	7.801	7.800	(0.815)	294840	51.8871	51.9	
	36	Tetrahydrofuran	42	7.851	7.843	(0.901)	80186	52.9455	52.9	
$	37	Dibromofluoromethane	113	7.894	7.900	(0.906)	221460	48.2199	48.2	
	38	1,1,1-Trichloroethane	97	7.923	7.922	(0.909)	403977	52.8192	52.8	
	39	1,1-Dichloropropene	75	8.137	8.135	(0.850)	367244	52.8578	52.8	
	40	2-Butanone	43	8.123	8.115	(0.932)	120690	50.0759	50.1	
	41	Benzene	78	8.559	8.558	(0.894)	1045244	51.3984	51.4	
*	42	Pentafluorobenzene	168	8.717	8.715	(1.000)	424598	50.0000		
	43	Cyclohexane	56	7.422	7.428	(0.852)	406312	48.9977	49.0	
	44	Ethyl Methacrylate	69	10.711	10.710	(1.119)	208343	51.5671	51.6	
$	45	1,2-Dichloroethane-D4	65	8.788	8.787	(1.008)	295604	45.8314	45.8	
	46	Tertiary-amyl methyl ether	73	8.767	8.765	(1.006)	739889	56.6025	56.6	
	47	1,2-Dichloroethane	62	8.902	8.894	(0.930)	380939	50.8302	50.8	
	48	Trichloroethene	95	9.510	9.509	(0.993)	261241	50.5125	50.5	
*	49	1,4-Difluorobenzene	114	9.575	9.573	(1.000)	807092	50.0000		
	50	Dibromomethane	93	10.175	10.174	(1.063)	154557	50.7709	50.8	
	51	1,2-Dichloropropane	63	10.340	10.338	(1.080)	264477	51.3872	51.4	
	52	Bromodichloromethane	83	10.447	10.446	(1.091)	373423	51.0441	51.0	
	53	cis-1,3-dichloropropene	75	11.412	11.418	(1.192)	444766	53.9620	54.0	
	54	1,4-Dioxane	88	10.754	10.753	(1.123)	58658	837.622	838	
$	55	Toluene-D8	98	11.691	11.690	(1.221)	905926	50.7401	50.7	
	56	2-Chloroethylvinylether	63	11.341	11.339	(1.184)	105749	43.7592	43.8	
	57	Toluene	92	11.770	11.768	(1.229)	688548	51.4982	51.5	
	58	4-methyl-2-pentanone	43	12.356	12.355	(1.290)	263677	54.1757	54.2	
	59	Tetrachloroethene	164	12.334	12.333	(0.886)	189781	51.9543	52.0	
	60	trans-1,3-Dichloropropene	75	12.406	12.405	(1.296)	404646	57.5475	57.5	
	61	1,1,2-Trichloroethane	83	12.635	12.634	(1.320)	204716	50.8349	50.8	
	62	Dibromochloromethane	129	12.892	12.891	(0.926)	264899	51.2796	51.3	
	63	1,3-Dichloropropane	76	13.028	13.027	(0.935)	445522	49.0969	49.1	
	64	1,2-Dibromoethane	107	13.221	13.220	(1.381)	239765	51.5192	51.5	
	65	2-Hexanone	43	13.564	13.563	(0.974)	183530	53.5337	53.5	
*	66	Chlorobenzene-D5	117	13.929	13.935	(1.000)	735656	50.0000		
	67	Chlorobenzene	112	13.958	13.956	(1.002)	731183	50.9899	51.0	
	152	1-Chlorohexane	91	13.936	13.935	(1.000)	373620	46.8120	46.8	
	68	Ethylbenzene	106	14.000	13.999	(1.005)	399505	50.9990	51.0	
	69	1,1,1,2-Tetrachloroethane	131	14.051	14.049	(1.009)	255426	52.8559	52.8	
M	70	Xylenes (total)	106				1494994	159.036	159	
	71	m+p-Xylenes	106	14.201	14.199	(1.020)	998937	106.272	106	
	72	o-Xylene	106	14.766	14.764	(1.060)	496057	52.7642	52.8	
	73	Styrene	104	14.837	14.836	(1.065)	868353	53.9834	54.0	
	74	Bromoform	173	14.866	14.872	(1.067)	164621	52.7231	52.7	
	75	Isopropylbenzene	105	15.173	15.172	(0.896)	1287253	53.9271	53.9	
$	76	P-Bromofluorobenzene	95	15.531	15.537	(1.622)	398568	49.0755	49.1	
	77	cis-1,4-Dichloro-2-Butene	53	15.624	15.622	(0.923)	128197	49.2167	49.2	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D
Report Date: 23-Jun-2015 11:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.024	16.023	(0.947)	103580	54.1445	54.1	
	79 Bromobenzene	156	15.666	15.665	(0.926)	307214	50.7898	50.8	
	80 N-Propylbenzene	91	15.702	15.701	(0.928)	1581481	55.6868	55.7	
	81 1,1,2,2-Tetrachloroethane	83	15.802	15.801	(0.934)	355517	50.1131	50.1	
	82 1,3,5-Trimethylbenzene	105	15.952	15.951	(0.943)	1120994	53.3175	53.3	
	83 2-Chlorotoluene	91	15.895	15.894	(0.939)	982158	53.7058	53.7	
	84 1,2,3-Trichloropropane	75	15.967	15.966	(0.943)	281277	51.7233	51.7	
	85 4-Chlorotoluene	91	16.110	16.109	(0.952)	1019680	53.0886	53.1	
	86 tert-Butylbenzene	119	16.346	16.344	(0.966)	1114322	55.3723	55.4	
	87 Pentachloroethane	117	16.374	16.373	(0.967)	225623	54.2378	54.2	
	88 1,2,4-Trimethylbenzene	105	16.432	16.430	(0.971)	1159990	55.3291	55.3	
	89 P-Isopropyltoluene	119	16.739	16.745	(0.989)	1221148	53.8217	53.8	
	90 1,3-Dichlorobenzene	146	16.839	16.838	(0.995)	626727	51.1405	51.1	
*	91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	396788	50.0000		
	92 1,4-Dichlorobenzene	146	16.946	16.945	(1.001)	632187	50.5220	50.5	
	93 N-Butylbenzene	91	17.254	17.260	(1.019)	1164476	54.4003	54.4	
	94 sec-Butylbenzene	105	16.567	16.565	(0.979)	1409098	54.3036	54.3	
	95 1,2-Dichlorobenzene	146	17.461	17.460	(1.032)	607887	51.7113	51.7	
	96 1,2-Dibromo-3-Chloropropane	75	18.426	18.425	(1.089)	69971	54.6239	54.6	
	97 1,3,5-Trichlorobenzene	180	18.455	18.461	(1.090)	429410	52.9973	53.0	
	98 Hexachlorobutadiene	225	19.191	19.190	(1.134)	137024	52.6319	52.6	
	99 1,2,4-Trichlorobenzene	180	19.234	19.233	(1.136)	385281	50.9718	51.0	
	100 1,2,3-Trimethylbenzene	105	16.968	16.974	(1.003)	1188166	54.4153	54.4	
	101 Naphthalene	128	19.656	19.655	(1.161)	928072	51.3498	51.3	
	102 1,2,3-Trichlorobenzene	180	19.906	19.905	(1.176)	307396	52.4621	52.5	
	103 Methyl Acetate	43	4.998	4.997	(0.573)	234173	54.4688	54.5	
	104 Methylcyclohexane	83	9.482	9.480	(1.088)	437912	54.4742	54.5	
M	153 Total Alkylbenzenes	100				8771509	382.231	382	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D
Date : 22-JUN-2015 12:59
Client ID: Independent Source
Sample Info: WG165276-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane (2.182)
-Chloromethane (2.446)
-Vinyl Chloride (2.518)
-Bromomethane (2.911)
-Chloroethane (3.061)
-Trichlorofluoromethane (3.233)
-Diethyl Ether (3.612)
-1,1-Dichloroethene (3.891)+
-Iodomethane (4.112)
-Acrolein (4.370)
-Allyl Chloride (4.570)
-Methylene Chloride (4.734)+
-trans-1,2-Dichloroethene (4.985)+
-Methyl tert-butyl ether (5.149)
-Tertiary-butyl alcohol (5.306)
-Acetonitrile (5.600)
-Di-isopropyl ether (5.828)
-Chloroprene (6.036)+
-Acrylonitrile (6.193)
-Ethyl tertiary-butyl ethe (6.536)+
-cis-1,2-Dichloroethene (7.087)
-2,2-Dichloropropane (7.280)
-Bromochloromethane (7.430)+
-Chloroform (7.580)
-Carbon Tetrachloride (7.795)+
-Dibromofluoromethane (7.895)+
-1,1-Dichloropropene (8.138)+
-Propionitrile (8.553)+
-1,2-Dichloroethane-D4 (8.789)+
-Isobutyl Alcohol (8.903)+
Methacrylonitrile (8.653)+
-Trichloroethene (9.488)+
-1,4-Difluorobenzene (9.575)
-Dibromomethane (10.176)
-Total Alkylbenzenes (10.340)
-1,2-Dichloropropane (10.333)
-Bromodichloromethane (10.447)
-Methyl Methacrylate (10.712)+
-2-Chloroethyl vinylether (11.341)
-cis-1,3-dichloropropene (11.413)
-Toluene-D8 (11.691)
-Toluene (11.770)
-4-methyl-2-pentanone (12.335)+
-1,1,2-Trichloroethane (12.650)
-Dibromochloromethane (12.893)
-1,3-Dichloropropane (13.029)
-1,2-Dibromoethane (13.222)
-2-Hexanone (13.565)
-Ethylbenzene (14.044)+
Chlorobenzene-D5 (13.937)+
m+p-Xylenes (14.201)
-o-Xylene (14.766)
-Styrene (14.838)+
-Isopropylbenzene (15.174)
-P-Bromofluorobenzene (15.531)
-cis-1,4-Dichloro-2-Butene (15.667)
-N-Propylbenzene (15.703)
-1,1,2,2-Tetrachloroethane (15.892)
-2-Chlorotoluene (15.896)
-trans-1,4-Dichloro-2-Bute (16.024)
-4-Chlorotoluene (16.110)
-1,3,5-Trimethylbenzene (15.953)+
-tert-Butylbenzene (16.327)
-1,2,4-Trimethylbenzene (16.432)
-sec-Butylbenzene (16.568)
-P-Isopropyltoluene (16.739)
-1,3-Dichlorobenzene (16.834)
-1,4-Dichlorobenzene-D4 (16.940)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.254)
-1,2-Dichlorobenzene (17.462)
-1,2-Dibromo-3-Chloropropa (18.427)
-1,3,5-Trichlorobenzene (18.456)
-Hexachlorobutadiene (19.165)
-1,2,4-Trichlorobenzene (19.235)
-Naphthalene (19.657)
-1,2,3-Trichlorobenzene (19.907)
\\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI4462
Lab ID : WG165462-4
Analytical Date: 06/25/15 10:46
Lab File ID : P1610.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/22/15 10:02 06/22/15 12:13
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.68276	0.63579	0.63579	0.010	-6.87980	20.00000	Averaged	
2 Chloromethane	0.97507	0.88872	0.88872	0.100	-8.85616	20.00000	Averaged	
3 Vinyl chloride	0.71527	0.69820	0.69820	0.010	-2.38682	20.00000	Averaged	
4 Bromomethane	50.00000	43.80133	0.32414	0.010	-12.39733	20.00000	Linear	
5 Chloroethane	50.00000	56.73699	0.54431	0.010	13.47398	20.00000	Quadratic	
6 Trichlorofluoromethane	0.95098	1.03780	1.03780	0.010	9.12947	20.00000	Averaged	
9 1,1-Dichloroethene	0.51346	0.54020	0.54020	0.100	5.20858	20.00000	Averaged	
10 Carbon Disulfide	1.88257	1.96223	1.96223	0.010	4.23136	20.00000	Averaged	
11 Freon-113	0.32741	0.36282	0.36282	0.010	10.81524	20.00000	Averaged	
14 Methylene Chloride	50.00000	52.58391	0.73787	0.010	5.16782	20.00000	Linear	
15 Acetone	0.22862	0.19913	0.19913	0.010	-12.89686	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54706	0.57062	0.57062	0.010	4.30792	20.00000	Averaged	
19 Methyl tert-butyl ether	1.71286	1.70741	1.70741	0.010	-0.31856	20.00000	Averaged	
25 1,1-Dichloroethane	1.06259	1.09513	1.09513	0.100	3.06197	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.66929	0.68366	0.68366	0.010	2.14579	20.00000	Averaged	
30 1,2-Dichloroethylene (total	++++	1.25428	1.25428	0.010	++++	20.00000	Averaged	*
34 Chloroform	1.08575	1.12798	1.12798	0.010	3.88934	20.00000	Averaged	
35 Carbon Tetrachloride	0.35203	0.40390	0.40390	0.010	14.73676	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.90065	0.99849	0.99849	0.010	10.86278	20.00000	Averaged	
40 2-Butanone	0.28381	0.26262	0.26262	0.010	-7.46832	20.00000	Averaged	
41 Benzene	1.25984	1.29613	1.29613	0.010	2.88053	20.00000	Averaged	
43 Cyclohexane	0.97651	1.09618	1.09618	0.010	12.25462	20.00000	Averaged	
47 1,2-Dichloroethane	0.46428	0.49960	0.49960	0.010	7.60621	20.00000	Averaged	
48 Trichloroethene	0.32040	0.32957	0.32957	0.010	2.86398	20.00000	Averaged	
51 1,2-Dichloropropane	0.31885	0.32608	0.32608	0.010	2.27020	20.00000	Averaged	
52 Bromodichloromethane	0.45321	0.47342	0.47342	0.010	4.45788	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.51061	0.53366	0.53366	0.010	4.51400	20.00000	Averaged	
57 Toluene	0.82830	0.86133	0.86133	0.010	3.98797	20.00000	Averaged	
58 4-methyl-2-pentanone	0.30152	0.31100	0.31100	0.010	3.14335	20.00000	Averaged	
59 Tetrachloroethene	0.24827	0.25911	0.25911	0.010	4.36493	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.43561	0.46374	0.46374	0.010	6.45794	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24948	0.24531	0.24531	0.010	-1.67056	20.00000	Averaged	
62 Dibromochloromethane	0.35110	0.35651	0.35651	0.010	1.54080	20.00000	Averaged	
64 1,2-Dibromoethane	0.28831	0.29130	0.29130	0.010	1.03603	20.00000	Averaged	
65 2-Hexanone	0.23301	0.22782	0.22782	0.010	-2.22949	20.00000	Averaged	
67 Chlorobenzene	0.97462	0.96367	0.96367	0.300	-1.12400	20.00000	Averaged	
68 Ethylbenzene	0.53242	0.53564	0.53564	0.010	0.60459	20.00000	Averaged	
70 Xylenes (total)	++++	0.66108	0.66108	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.63887	0.66103	0.66103	0.010	3.46762	20.00000	Averaged	
72 o-Xylene	0.63898	0.66118	0.66118	0.010	3.47365	20.00000	Averaged	
73 Styrene	1.09328	1.13829	1.13829	0.010	4.11684	20.00000	Averaged	

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Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI4462
Lab ID : WG165462-4
Analytical Date: 06/25/15 10:46
Lab File ID : P1610.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/22/15 10:02 06/22/15 12:13
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	0.21222	0.21983	0.21983	0.100	3.58692	20.00000	Averaged
75 Isopropylbenzene	3.00793	3.14402	3.14402	0.010	4.52441	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.89396	0.83457	0.83457	0.300	-6.64443	20.00000	Averaged
90 1,3-Dichlorobenzene	1.54428	1.53206	1.53206	0.010	-0.79091	20.00000	Averaged
92 1,4-Dichlorobenzene	1.57680	1.56688	1.56688	0.010	-0.62918	20.00000	Averaged
95 1,2-Dichlorobenzene	1.48132	1.46922	1.46922	0.010	-0.81698	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.16142	0.15495	0.15495	0.010	-4.00462	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.95249	0.92602	0.92602	0.010	-2.77923	20.00000	Averaged
103 Methyl Acetate	0.50627	0.43456	0.43456	0.010	-14.16434	20.00000	Averaged
104 Methylcyclohexane	0.94665	1.03548	1.03548	0.010	9.38451	20.00000	Averaged
37 Dibromofluoromethane	0.54083	0.50216	0.50216	0.010	-7.14939	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.75952	0.68775	0.68775	0.010	-9.44930	20.00000	Averaged
55 Toluene-D8	1.10608	1.05664	1.05664	0.010	-4.47022	20.00000	Averaged
76 P-Bromofluorobenzene	0.50314	0.47916	0.47916	0.010	-4.76481	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1610.D
Report Date: 26-Jun-2015 06:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1610.D
Lab Smp Id: WG165462-4 Client Smp ID: ontinuing Calibrati
Inj Date : 25-JUN-2015 10:46 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165462-4,SI4462
Misc Info : WG165462,WG165276-4,SI4462-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.187	2.187	(0.251)	247638	50.0000	46.6	
2 Chloromethane	50	2.430	2.437	(0.279)	346153	50.0000	45.6	
3 Vinyl chloride	62	2.515	2.516	(0.289)	271945	50.0000	48.8	
4 Bromomethane	94	2.909	2.909	(0.334)	126253	50.0000	43.8	
5 Chloroethane	64	3.059	3.067	(0.351)	212006	50.0000	56.7	
6 Trichlorofluoromethane	101	3.230	3.231	(0.371)	404219	50.0000	54.6	
7 Diethyl Ether	59	3.617	3.617	(0.415)	228185	50.0000	50.1	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.609)	66395	250.000	174	
9 1,1-Dichloroethene	96	3.888	3.889	(0.446)	210406	50.0000	52.6	
10 Carbon Disulfide	76	3.945	3.953	(0.453)	764281	50.0000	52.1	
11 Freon-113	151	3.931	3.939	(0.451)	141318	50.0000	55.4	
12 Iodomethane	142	4.103	4.111	(0.471)	177209	50.0000	44.2	
13 Acrolein	56	4.360	4.368	(0.500)	233951	250.000	229	
14 Methylene Chloride	84	4.732	4.733	(0.543)	287397	50.0000	52.6	
15 Acetone	43	4.803	4.804	(0.551)	387805	250.000	218	
16 Isobutyl Alcohol	43	8.965	8.966	(1.029)	132813	1000.00	753	
17 trans-1,2-Dichloroethene	96	4.982	4.983	(0.572)	222255	50.0000	52.2	
18 Allyl Chloride	41	4.568	4.568	(0.524)	345922	50.0000	55.0	
19 Methyl tert-butyl ether	73	5.147	5.147	(0.591)	1330057	100.000	99.7	
20 Acetonitrile	39	5.597	5.598	(0.642)	67532	500.000	455	
21 Di-isopropyl ether	45	5.826	5.827	(0.669)	852657	50.0000	51.4	
22 Chloroprene	53	6.026	6.027	(0.692)	433971	50.0000	54.0	
23 Propionitrile	54	8.615	8.622	(0.989)	334726	500.000	469	
24 Methacrylonitrile	41	8.650	8.651	(0.993)	1476210	500.000	510	

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1610.D
Report Date: 26-Jun-2015 06:54

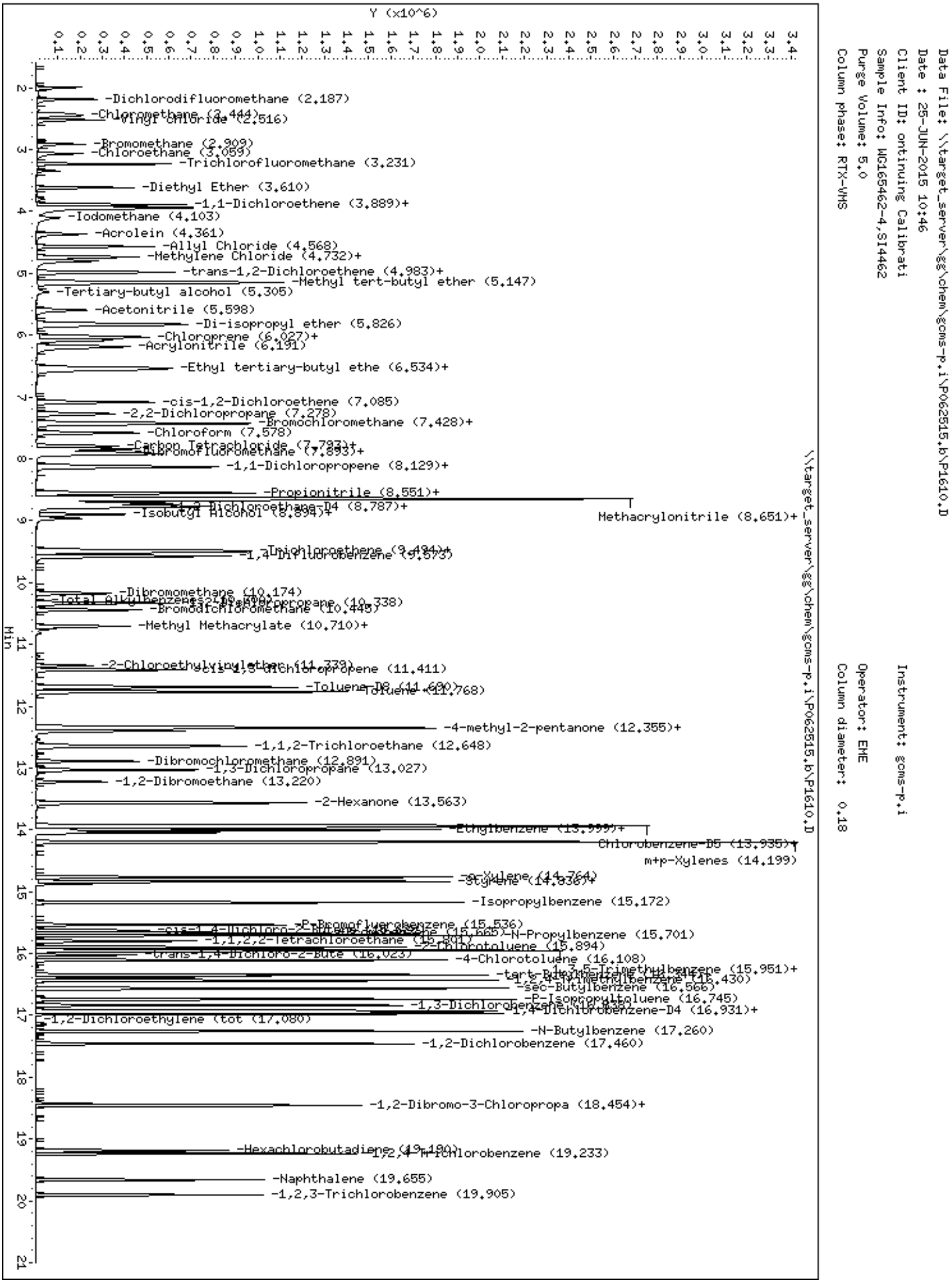
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.076	6.084	(0.697)	426548	50.0000	51.5	
	26 Acrylonitrile	52	6.191	6.191	(0.710)	420790	250.000	243	
	27 Ethyl tertiary-butyl ether	59	6.534	6.535	(0.750)	729825	50.0000	50.2	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	618480	50.0000	51.6	
	29 cis-1,2-Dichloroethene	96	7.084	7.085	(0.813)	266281	50.0000	51.1	
M	30 1,2-Dichloroethylene (total)	96				488536	50.0000	(a)	
	31 Methyl Methacrylate	41	10.710	10.710	(1.119)	215086	50.0000	50.4	
	32 2,2-Dichloropropane	77	7.277	7.278	(0.835)	283656	50.0000	47.5	
	33 Bromochloromethane	128	7.435	7.435	(0.853)	103416	50.0000	51.0	
	34 Chloroform	83	7.578	7.578	(0.870)	439344	50.0000	51.9	
	35 Carbon Tetrachloride	117	7.792	7.800	(0.814)	291270	50.0000	57.4	
	36 Tetrahydrofuran	42	7.842	7.843	(0.900)	327203	250.000	236	
$	37 Dibromofluoromethane	113	7.892	7.900	(0.906)	195591	50.0000	46.4	
	38 1,1,1-Trichloroethane	97	7.921	7.922	(0.909)	388907	50.0000	55.4	
	39 1,1-Dichloropropene	75	8.135	8.135	(0.850)	335906	50.0000	54.1	
	40 2-Butanone	43	8.114	8.115	(0.931)	511444	250.000	231	
	41 Benzene	78	8.550	8.558	(0.893)	934691	50.0000	51.4	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	389496	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	426956	50.0000	56.1	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.119)	159577	50.0000	44.2	
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.008)	267876	50.0000	45.3	
	46 Tertiary-amyl methyl ether	73	8.765	8.765	(1.006)	570342	50.0000	47.6	
	47 1,2-Dichloroethane	62	8.893	8.894	(0.929)	360278	50.0000	53.8	
	48 Trichloroethene	95	9.508	9.509	(0.993)	237669	50.0000	51.4	
*	49 1,4-Difluorobenzene	114	9.573	9.573	(1.000)	721140	50.0000		
	50 Dibromomethane	93	10.173	10.174	(1.063)	140567	50.0000	51.7	
	51 1,2-Dichloropropane	63	10.331	10.338	(1.079)	235152	50.0000	51.1	
	52 Bromodichloromethane	83	10.445	10.446	(1.091)	341400	50.0000	52.2	
	53 cis-1,3-dichloropropene	75	11.410	11.418	(1.192)	384844	50.0000	52.2	
	54 1,4-Dioxane	88	10.752	10.753	(1.123)	42409	1000.00	678	
$	55 Toluene-D8	98	11.689	11.690	(1.221)	761985	50.0000	47.8	
	56 2-Chloroethylvinylether	63	11.339	11.339	(1.184)	103797	50.0000	51.9	
	57 Toluene	92	11.768	11.768	(1.229)	621143	50.0000	52.0	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.291)	1121361	250.000	258	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	174134	50.0000	52.2	
	60 trans-1,3-Dichloropropene	75	12.404	12.405	(1.296)	334421	50.0000	53.2	
	61 1,1,2-Trichloroethane	83	12.633	12.634	(1.320)	176905	50.0000	49.2	
	62 Dibromochloromethane	129	12.890	12.891	(0.925)	239593	50.0000	50.8	
	63 1,3-Dichloropropane	76	13.033	13.027	(0.935)	402468	50.0000	48.5	
	64 1,2-Dibromoethane	107	13.219	13.220	(1.381)	210068	50.0000	50.5	
	65 2-Hexanone	43	13.562	13.563	(0.973)	765517	250.000	244	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	672051	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	647635	50.0000	49.4	
	152 1-Chlorohexane	91	13.934	13.935	(1.000)	353985	50.0000	48.5	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	359978	50.0000	50.3	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	229115	50.0000	51.9	
M	70 Xylenes (total)	106				1332832	150.000	(a)	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	888488	100.000	103	
	72 o-Xylene	106	14.764	14.764	(1.060)	444344	50.0000	51.7	
	73 Styrene	104	14.835	14.836	(1.065)	764988	50.0000	52.0	
	74 Bromoform	173	14.864	14.872	(1.067)	147736	50.0000	51.8	
	75 Isopropylbenzene	105	15.171	15.172	(0.896)	1168599	50.0000	52.3	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.623)	345543	50.0000	47.6	
	77 cis-1,4-Dichloro-2-Butene	53	15.629	15.622	(0.924)	111690	50.0000	45.8	

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1610.D
Report Date: 26-Jun-2015 06:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	88591	50.0000	49.4	
	79 Bromobenzene	156	15.665	15.665	(0.926)	278834	50.0000	49.2	
	80 N-Propylbenzene	91	15.700	15.701	(0.928)	1404222	50.0000	52.8	
	81 1,1,2,2-Tetrachloroethane	83	15.800	15.801	(0.934)	310199	50.0000	46.7	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	1036137	50.0000	52.6	
	83 2-Chlorotoluene	91	15.901	15.894	(0.940)	865072	50.0000	50.5	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	239212	50.0000	47.0	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	922090	50.0000	51.2	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	1011633	50.0000	53.7	
	87 Pentachloroethane	117	16.372	16.373	(0.967)	198817	50.0000	51.0	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	1048849	50.0000	53.4	
	89 P-Isopropyltoluene	119	16.744	16.745	(0.989)	1119429	50.0000	52.7	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	569451	50.0000	49.6	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	371689	50.0000		
	92 1,4-Dichlorobenzene	146	16.944	16.945	(1.001)	582392	50.0000	49.7	
	93 N-Butylbenzene	91	17.259	17.260	(1.020)	1069521	50.0000	53.3	
	94 sec-Butylbenzene	105	16.565	16.565	(0.979)	1280946	50.0000	52.7	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.032)	546092	50.0000	49.6	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	57594	50.0000	48.0	
	97 1,3,5-Trichlorobenzene	180	18.460	18.461	(1.091)	372815	50.0000	49.1	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	127038	50.0000	52.1	
	99 1,2,4-Trichlorobenzene	180	19.232	19.233	(1.136)	344190	50.0000	48.6	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	1050661	50.0000	51.4	
	101 Naphthalene	128	19.654	19.655	(1.161)	704446	50.0000	41.8	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	260371	50.0000	47.4	
	103 Methyl Acetate	43	4.997	4.997	(0.573)	169259	50.0000	42.9	
	104 Methylcyclohexane	83	9.480	9.480	(1.088)	403317	50.0000	54.7	
M	153 Total Alkylbenzenes	100				7970737	50.0000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1610.D
Date : 25-JUN-2015 10:46
Client ID: ontinuing Calibrati
Sample Info: WG165462-4,SI4462
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane (2.187)
-Chloromethane (2.444)
-Vinyl chloride (2.516)
-Bromomethane (2.909)
-Chloroethane (3.059)
-Trichlorofluoromethane (3.231)
-Diethyl Ether (3.610)
-1,1-Dichloroethene (3.889)+
-Iodomethane (4.103)
-Acrolein (4.361)
-Allyl Chloride (4.568)
-Methylene Chloride (4.732)+
-trans-1,2-Dichloroethene (4.983)+
-Methyl tert-butyl ether (5.147)
-Tertiary-butyl alcohol (5.305)
-Acetonitrile (5.598)
-Di-isopropyl ether (5.826)
-Chloroprene (6.027)+
-Acrylonitrile (6.191)
-Ethyl tertiary-butyl ethe (6.534)+
-cis-1,2-Dichloroethene (7.085)
-2,2-Dichloropropane (7.278)
-Bromochloromethane (7.428)+
-Chloroform (7.578)
-Carbon Tetrachloride (7.793)+
-Dibromofluoromethane (7.893)+
-1,1-Dichloropropene (8.129)+
-Propionitrile (8.551)+
-1,2-Dichloroethane-D4 (8.787)+
-Isobutyl Alcohol (8.894)+
Methacrylonitrile (8.651)+
-Trichloroethene (9.494)+
-1,4-Difluorobenzene (9.573)
-Dibromomethane (10.174)
-Total Alkylbenzenes
-1,3-Dichloropropane (10.338)
-Bromodichloromethane (10.445)
-Methyl Methacrylate (10.710)+
-2-Chloroethylvinylether (11.379)
-cis-1,3-Dichloropropene (11.411)
-Toluene-D8 (11.600)
-Toluene (11.768)
-4-methyl-2-pentanone (12.355)+
-1,1,2-Trichloroethane (12.648)
-Dibromochloromethane (12.891)
-1,3-Dichloropropane (13.027)
-1,2-Dibromoethane (13.220)
-2-Hexanone (13.563)
-Ethylbenzene (13.999)+
-Chlorobenzene-D5 (13.935)+
m+p-Xylenes (14.199)
-o-Xylene (14.764)
-Styrene (14.836)+
-Isopropylbenzene (15.172)
-P-Bromofluorobenzene (15.536)
-cis-1,4-Dichloro-2-Butene (15.665)
-N-Propylbenzene (15.701)
-1,1,2,2-Tetrachloroethane (15.801)
-2-Chlorotoluene (15.894)
-trans-1,4-Dichloro-2-Bute (16.023)
-4-Chlorotoluene (16.108)
-1,3,5-Trimethylbenzene (15.951)+
-tert-Butylbenzene (16.314)+
-1,2,4-Trimethylbenzene (16.430)
-sec-Butylbenzene (16.566)
-P-Isopropyltoluene (16.745)
-1,3-Dichlorobenzene (16.831)
-1,4-Dichlorobenzene-D4 (16.931)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.260)
-1,2-Dichlorobenzene (17.460)
-1,2-Dibromo-3-Chloropropa (18.454)+
-Hexachlorobutadiene (19.190)
-1,2,4-Trichlorobenzene (19.233)
-Naphthalene (19.655)
-1,2,3-Trichlorobenzene (19.905)
\\target_server\gg\chem\gcms-p.i\P062515.b\P1610.D

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI4462
Lab ID : WG165523-4
Analytical Date: 06/26/15 09:06
Lab File ID : P1636.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/22/15 10:02 06/22/15 12:13
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.68276	0.55145	0.55145	0.010	-19.23233	20.00000	Averaged	
2 Chloromethane	0.97507	0.83003	0.83003	0.100	-14.87473	20.00000	Averaged	
3 Vinyl chloride	0.71527	0.63710	0.63710	0.010	-10.92887	20.00000	Averaged	
4 Bromomethane	50.00000	43.21049	0.31965	0.010	-13.57902	20.00000	Linear	
5 Chloroethane	50.00000	52.67956	0.51763	0.010	5.35912	20.00000	Quadratic	
6 Trichlorofluoromethane	0.95098	0.99395	0.99395	0.010	4.51821	20.00000	Averaged	
9 1,1-Dichloroethene	0.51346	0.50712	0.50712	0.100	-1.23449	20.00000	Averaged	
10 Carbon Disulfide	1.88257	1.90984	1.90984	0.010	1.44839	20.00000	Averaged	
11 Freon-113	0.32741	0.35712	0.35712	0.010	9.07226	20.00000	Averaged	
14 Methylene Chloride	50.00000	49.93789	0.70123	0.010	-0.12421	20.00000	Linear	
15 Acetone	0.22862	0.28290	0.28290	0.010	23.74313	20.00000	Averaged	*
17 trans-1,2-Dichloroethene	0.54706	0.54856	0.54856	0.010	0.27547	20.00000	Averaged	
19 Methyl tert-butyl ether	1.71286	1.79848	1.79848	0.010	4.99853	20.00000	Averaged	
25 1,1-Dichloroethane	1.06259	1.09682	1.09682	0.100	3.22162	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.66929	0.66331	0.66331	0.010	-0.89402	20.00000	Averaged	
30 1,2-Dichloroethylene (total	++++	1.21187	1.21187	0.010	++++	20.00000	Averaged	*
34 Chloroform	1.08575	1.11861	1.11861	0.010	3.02639	20.00000	Averaged	
35 Carbon Tetrachloride	0.35203	0.41332	0.41332	0.010	17.41286	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.90065	0.97888	0.97888	0.010	8.68613	20.00000	Averaged	
40 2-Butanone	0.28381	0.33394	0.33394	0.010	17.66067	20.00000	Averaged	
41 Benzene	1.25984	1.28001	1.28001	0.010	1.60138	20.00000	Averaged	
43 Cyclohexane	0.97651	1.01823	1.01823	0.010	4.27275	20.00000	Averaged	
47 1,2-Dichloroethane	0.46428	0.52584	0.52584	0.010	13.25822	20.00000	Averaged	
48 Trichloroethene	0.32040	0.32342	0.32342	0.010	0.94286	20.00000	Averaged	
51 1,2-Dichloropropane	0.31885	0.31440	0.31440	0.010	-1.39493	20.00000	Averaged	
52 Bromodichloromethane	0.45321	0.48797	0.48797	0.010	7.66858	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.51061	0.53258	0.53258	0.010	4.30192	20.00000	Averaged	
57 Toluene	0.82830	0.83825	0.83825	0.010	1.20114	20.00000	Averaged	
58 4-methyl-2-pentanone	0.30152	0.36883	0.36883	0.010	22.32254	20.00000	Averaged	*
59 Tetrachloroethene	0.24827	0.25658	0.25658	0.010	3.34798	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.43561	0.48079	0.48079	0.010	10.37252	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24948	0.25832	0.25832	0.010	3.54191	20.00000	Averaged	
62 Dibromochloromethane	0.35110	0.37577	0.37577	0.010	7.02509	20.00000	Averaged	
64 1,2-Dibromoethane	0.28831	0.31028	0.31028	0.010	7.61849	20.00000	Averaged	
65 2-Hexanone	0.23301	0.28462	0.28462	0.010	22.14855	20.00000	Averaged	*
67 Chlorobenzene	0.97462	0.97602	0.97602	0.300	0.14354	20.00000	Averaged	
68 Ethylbenzene	0.53242	0.53592	0.53592	0.010	0.65629	20.00000	Averaged	
70 Xylenes (total)	++++	0.65718	0.65718	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.63887	0.66232	0.66232	0.010	3.66966	20.00000	Averaged	
72 o-Xylene	0.63898	0.64690	0.64690	0.010	1.23948	20.00000	Averaged	
73 Styrene	1.09328	1.14674	1.14674	0.010	4.88977	20.00000	Averaged	

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Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, I
SDG: SI4462
Lab ID : WG165523-4
Analytical Date: 06/26/15 09:06
Lab File ID : P1636.D
Instrument ID: GCMS-P
Initial Calibration Date(s): 06/22/15 10:02 06/22/15 12:13
Column ID:

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
74 Bromoform	0.21222	0.23420	0.23420	0.100	10.36105	20.00000	Averaged
75 Isopropylbenzene	3.00793	3.01149	3.01149	0.010	0.11841	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.89396	0.88684	0.88684	0.300	-0.79715	20.00000	Averaged
90 1,3-Dichlorobenzene	1.54428	1.49149	1.49149	0.010	-3.41844	20.00000	Averaged
92 1,4-Dichlorobenzene	1.57680	1.51585	1.51585	0.010	-3.86548	20.00000	Averaged
95 1,2-Dichlorobenzene	1.48132	1.46712	1.46712	0.010	-0.95853	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.16142	0.18413	0.18413	0.010	14.07136	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.95249	0.94226	0.94226	0.010	-1.07384	20.00000	Averaged
103 Methyl Acetate	0.50627	0.53697	0.53697	0.010	6.06457	20.00000	Averaged
104 Methylcyclohexane	0.94665	0.96387	0.96387	0.010	1.81975	20.00000	Averaged
37 Dibromofluoromethane	0.54083	0.54290	0.54290	0.010	0.38272	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.75952	0.77771	0.77771	0.010	2.39496	20.00000	Averaged
55 Toluene-D8	1.10608	1.15817	1.15817	0.010	4.70934	20.00000	Averaged
76 P-Bromofluorobenzene	0.50314	0.52994	0.52994	0.010	5.32698	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1636.D
Report Date: 06-Jul-2015 14:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1636.D
Lab Smp Id: WG165523-4 Client Smp ID: ontinuing Calibrati
Inj Date : 26-JUN-2015 09:06 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165523-4,SI4462
Misc Info : WG165523,WG165276-4,SI4462-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

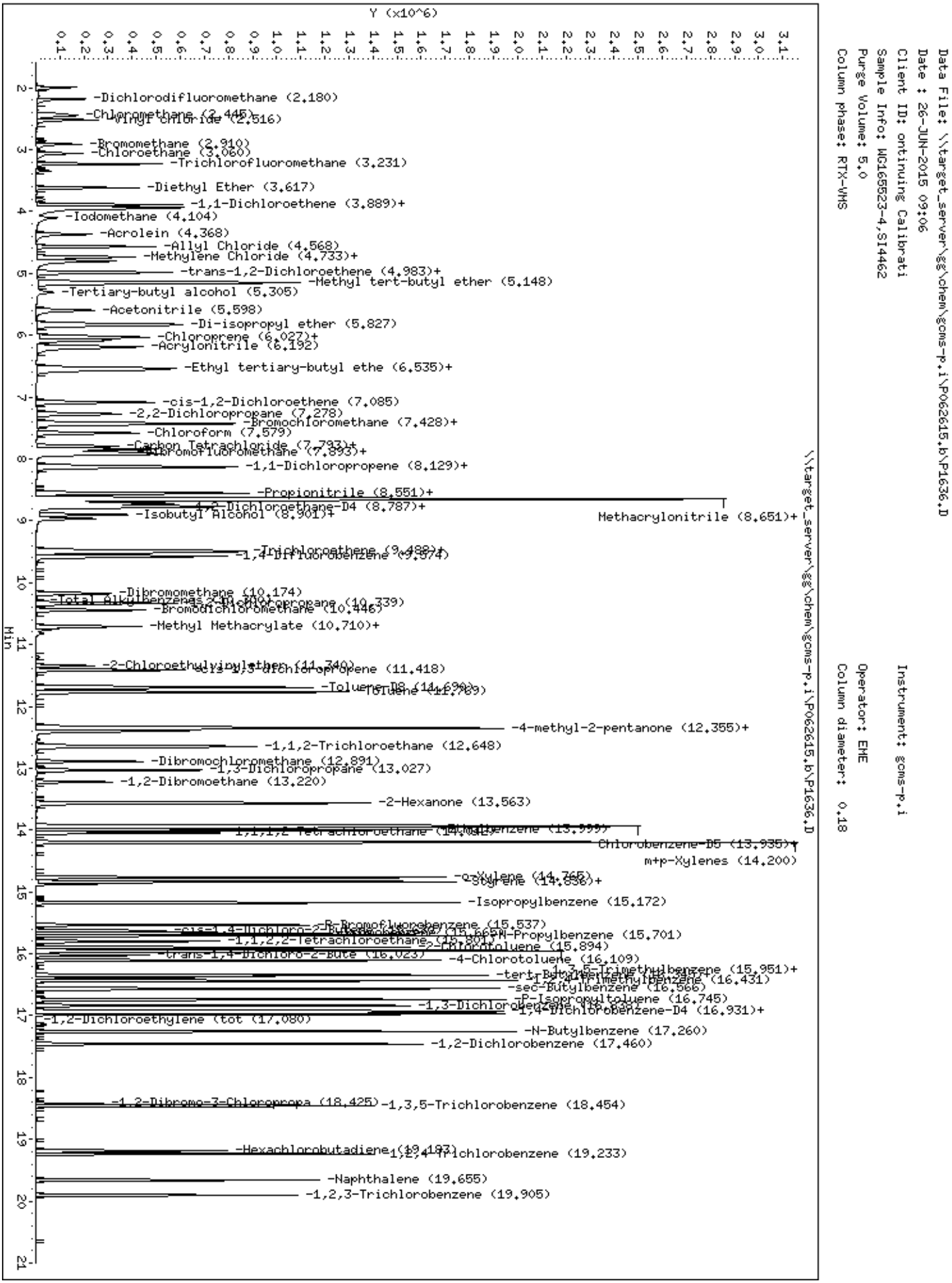
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.180	2.187	(0.250)	196542	50.0000	40.4	
2 Chloromethane	50	2.444	2.437	(0.281)	295831	50.0000	42.6	
3 Vinyl chloride	62	2.516	2.516	(0.289)	227067	50.0000	44.5	
4 Bromomethane	94	2.909	2.909	(0.334)	113926	50.0000	43.2	
5 Chloroethane	64	3.059	3.067	(0.351)	184486	50.0000	52.7	
6 Trichlorofluoromethane	101	3.231	3.231	(0.371)	354251	50.0000	52.2	
7 Diethyl Ether	59	3.617	3.617	(0.415)	214482	50.0000	51.5	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.609)	80956	250.000	230	
9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	180741	50.0000	49.4	
10 Carbon Disulfide	76	3.946	3.953	(0.453)	680682	50.0000	50.7	
11 Freon-113	151	3.932	3.939	(0.451)	127279	50.0000	54.5	
12 Iodomethane	142	4.103	4.111	(0.471)	142744	50.0000	38.6	
13 Acrolein	56	4.368	4.368	(0.501)	240055	250.000	257	
14 Methylene Chloride	84	4.732	4.733	(0.543)	249924	50.0000	49.9	
15 Acetone	43	4.804	4.804	(0.551)	504133	250.000	309	
16 Isobutyl Alcohol	43	8.965	8.966	(1.029)	156157	1000.00	961	
17 trans-1,2-Dichloroethene	96	4.983	4.983	(0.572)	195512	50.0000	50.1	
18 Allyl Chloride	41	4.568	4.568	(0.524)	318865	50.0000	55.4	
19 Methyl tert-butyl ether	73	5.147	5.147	(0.591)	1281987	100.000	105	
20 Acetonitrile	39	5.605	5.598	(0.643)	74125	500.000	546	
21 Di-isopropyl ether	45	5.826	5.827	(0.669)	767389	50.0000	50.5	
22 Chloroprene	53	6.027	6.027	(0.692)	402217	50.0000	54.7	
23 Propionitrile	54	8.622	8.622	(0.989)	369678	500.000	566	
24 Methacrylonitrile	41	8.651	8.651	(0.993)	1525894	500.000	576	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1636.D
Report Date: 06-Jul-2015 14:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	390917	50.0000	51.6	
	26 Acrylonitrile	52	6.191	6.191	(0.710)	428203	250.000	271	
	27 Ethyl tertiary-butyl ether	59	6.534	6.535	(0.750)	662637	50.0000	49.8	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	588282	50.0000	54.3	
	29 cis-1,2-Dichloroethene	96	7.085	7.085	(0.813)	236409	50.0000	49.6	
	31 Methyl Methacrylate	41	10.710	10.710	(1.118)	220049	50.0000	57.0	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.835)	266824	50.0000	48.8	
	33 Bromochloromethane	128	7.442	7.435	(0.854)	93967	50.0000	50.7	
	34 Chloroform	83	7.578	7.578	(0.870)	398682	50.0000	51.5	
	35 Carbon Tetrachloride	117	7.793	7.800	(0.813)	269586	50.0000	58.7	
	36 Tetrahydrofuran	42	7.843	7.843	(0.900)	356868	250.000	281	
$	37 Dibromofluoromethane	113	7.893	7.900	(0.906)	193494	50.0000	50.2	
	38 1,1,1-Trichloroethane	97	7.921	7.922	(0.909)	348882	50.0000	54.3	
	39 1,1-Dichloropropene	75	8.136	8.135	(0.849)	300799	50.0000	53.6	
	40 2-Butanone	43	8.114	8.115	(0.931)	595091	250.000	294	
	41 Benzene	78	8.558	8.558	(0.893)	834878	50.0000	50.8	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	356408	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	362906	50.0000	52.1	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.118)	157479	50.0000	48.2	
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.008)	277182	50.0000	51.2	
	46 Tertiary-amyl methyl ether	73	8.765	8.765	(1.006)	520806	50.0000	47.5	
	47 1,2-Dichloroethane	62	8.901	8.894	(0.929)	342972	50.0000	56.6	
	48 Trichloroethene	95	9.509	9.509	(0.993)	210947	50.0000	50.5	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	652241	50.0000		
	50 Dibromomethane	93	10.174	10.174	(1.062)	130529	50.0000	53.0	
	51 1,2-Dichloropropane	63	10.331	10.338	(1.078)	205063	50.0000	49.3	
	52 Bromodichloromethane	83	10.445	10.446	(1.090)	318273	50.0000	53.8	
	53 cis-1,3-dichloropropene	75	11.418	11.418	(1.192)	347369	50.0000	52.2	
	54 1,4-Dioxane	88	10.753	10.753	(1.122)	45339	1000.00	801	
$	55 Toluene-D8	98	11.689	11.690	(1.220)	755408	50.0000	52.4	
	56 2-Chloroethylvinylether	63	11.339	11.339	(1.184)	97880	50.0000	56.1	
	57 Toluene	92	11.768	11.768	(1.228)	546742	50.0000	50.6	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.290)	1202816	250.000	306	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	156742	50.0000	51.7	
	60 trans-1,3-Dichloropropene	75	12.404	12.405	(1.295)	313592	50.0000	55.2	
	61 1,1,2-Trichloroethane	83	12.640	12.634	(1.319)	168485	50.0000	51.8	
	62 Dibromochloromethane	129	12.891	12.891	(0.925)	229548	50.0000	53.5	
	63 1,3-Dichloropropane	76	13.027	13.027	(0.935)	382598	50.0000	50.8	
	64 1,2-Dibromoethane	107	13.220	13.220	(1.380)	202376	50.0000	53.8	
	65 2-Hexanone	43	13.563	13.563	(0.973)	869340	250.000	305	
*	66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	610881	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	596234	50.0000	50.1	
	152 1-Chlorohexane	91	13.935	13.935	(1.000)	308111	50.0000	46.5	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	327381	50.0000	50.3	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	214443	50.0000	53.4	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	809195	100.000	104	
	72 o-Xylene	106	14.764	14.764	(1.060)	395179	50.0000	50.6	
	73 Styrene	104	14.836	14.836	(1.065)	700521	50.0000	52.4	
	74 Bromoform	173	14.871	14.872	(1.067)	143071	50.0000	55.2	
	75 Isopropylbenzene	105	15.172	15.172	(0.896)	1064762	50.0000	50.0	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	345647	50.0000	52.7	
	77 cis-1,4-Dichloro-2-Butene	53	15.629	15.622	(0.924)	115428	50.0000	49.7	
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	94312	50.0000	55.3	
	79 Bromobenzene	156	15.665	15.665	(0.926)	257788	50.0000	47.8	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1636.D
Report Date: 06-Jul-2015 14:53

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80 N-Propylbenzene	91	15.701	15.701	(0.928)	1281314	50.0000	50.6	
81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	313556	50.0000	49.6	
82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	965220	50.0000	51.5	
83 2-Chlorotoluene	91	15.894	15.894	(0.939)	791277	50.0000	48.6	
84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	249558	50.0000	51.5	
85 4-Chlorotoluene	91	16.108	16.109	(0.952)	849380	50.0000	49.6	
86 tert-Butylbenzene	119	16.344	16.344	(0.966)	924775	50.0000	51.6	
87 Pentachloroethane	117	16.373	16.373	(0.967)	185835	50.0000	50.1	
88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	964382	50.0000	51.6	
89 P-Isopropyltoluene	119	16.745	16.745	(0.989)	1029858	50.0000	50.9	
90 1,3-Dichlorobenzene	146	16.838	16.838	(0.995)	527339	50.0000	48.3	
* 91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	353566	50.0000		
92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	535953	50.0000	48.1	
93 N-Butylbenzene	91	17.259	17.260	(1.020)	979135	50.0000	51.3	
94 sec-Butylbenzene	105	16.566	16.565	(0.979)	1164956	50.0000	50.4	
95 1,2-Dichlorobenzene	146	17.460	17.460	(1.032)	518724	50.0000	49.5	
96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	65102	50.0000	57.0	
97 1,3,5-Trichlorobenzene	180	18.461	18.461	(1.091)	347236	50.0000	48.1	
98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	115774	50.0000	49.9	
99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	333151	50.0000	49.5	
100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	972615	50.0000	50.0	
101 Naphthalene	128	19.655	19.655	(1.161)	796910	50.0000	49.5	
102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	281752	50.0000	54.0	
103 Methyl Acetate	43	4.997	4.997	(0.573)	191381	50.0000	53.0	
104 Methylcyclohexane	83	9.480	9.480	(1.088)	343532	50.0000	50.9	


Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1636.D
Date : 26-JUN-2015 09:06
Client ID: ontinuing Calibrati
Sample Info: WG165523-4,SI4462
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane (2.180)
-Chloromethane (2.445)
-Vinyl chloride (2.516)
-Bromomethane (2.910)
-Chloroethane (3.060)
-Trichlorofluoromethane (3.231)
-Diethyl Ether (3.617)
-1,1-Dichloroethene (3.889)+
-Iodomethane (4.104)
-Acrolein (4.368)
-Allyl Chloride (4.568)
-Methylene Chloride (4.733)+
-trans-1,2-Dichloroethene (4.983)+
-Methyl tert-butyl ether (5.148)
-Tertiary-butyl alcohol (5.305)
-Acetonitrile (5.598)
-Di-isopropyl ether (5.827)
-Chloroprene (6.027)+
-Acrylonitrile (6.192)
-Ethyl tertiary-butyl ethe (6.535)+
-cis-1,2-Dichloroethene (7.085)
-2,2-Dichloropropane (7.278)
-Bromochloromethane (7.428)+
-Chloroform (7.579)
-Carbon Tetrachloride (7.793)+
-Dibromofluoromethane (7.893)+
-1,1-Dichloropropene (8.129)+
-Propionitrile (8.551)+
Methacrylonitrile (8.651)+
-1,2-Dichloroethane-D4 (8.787)+
-Isobutyl Alcohol (8.901)+
-Trichloroethene (9.488)+
-1,4-Difluorobenzene (9.574)
-Dibromomethane (10.174)
-Total Alkylbenzenes
-2,3-Dichloropropane (10.339)
-Bromodichloromethane (10.446)
-Methyl Methacrylate (10.710)+
-2-Chloroethylvinylether (11.340)
-cis-1,3-dichloropropene (11.418)
-Toluene-D8 (11.696)
-Toluene (11.769)
-4-methyl-2-pentanone (12.355)+
-1,1,2-Trichloroethane (12.648)
-Dibromochloromethane (12.891)
-1,3-Dichloropropane (13.027)
-1,2-Dibromoethane (13.220)
-2-Hexanone (13.563)
-1,1,1,2-Tetrachloroethane (14.041)
-Ethylbenzene (13.999)
-Chlorobenzene-D5 (13.935)+
m+p-Xylenes (14.200)
-o-Xylene (14.765)
-Styrene (14.836)+
-Isopropylbenzene (15.172)
-4-Bromofluorobenzene (15.537)
-cis-1,4-Dichloro-2-Butene (15.665)
-N-Propylbenzene (15.701)
-1,1,2,2-Tetrachloroethane (15.801)
-2-Chlorotoluene (15.894)
-trans-1,4-Dichloro-2-Bute (16.023)
-4-Chlorotoluene (16.109)
-1,3,5-Trimethylbenzene (15.951)+
-tert-Butylbenzene (16.366)
-1,2,4-Trimethylbenzene (16.431)
-sec-Butylbenzene (16.566)
-P-Isopropyltoluene (16.745)
-1,3-Dichlorobenzene (16.836)
-1,4-Dichlorobenzene-D4 (16.931)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.260)
-1,2-Dichlorobenzene (17.460)
-1,2-Dibromo-3-Chloropropa (18.425)
-1,3,5-Trichlorobenzene (18.454)
-Hexachlorobutadiene (19.197)
-1,2,4-Trichlorobenzene (19.233)
-Naphthalene (19.655)
-1,2,3-Trichlorobenzene (19.905)
\\target_server\gg\chem\gcms-p.i\P062615.b\P1636.D

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\PB295.D

Date : 22-JUN-2015 09:27

Client ID:

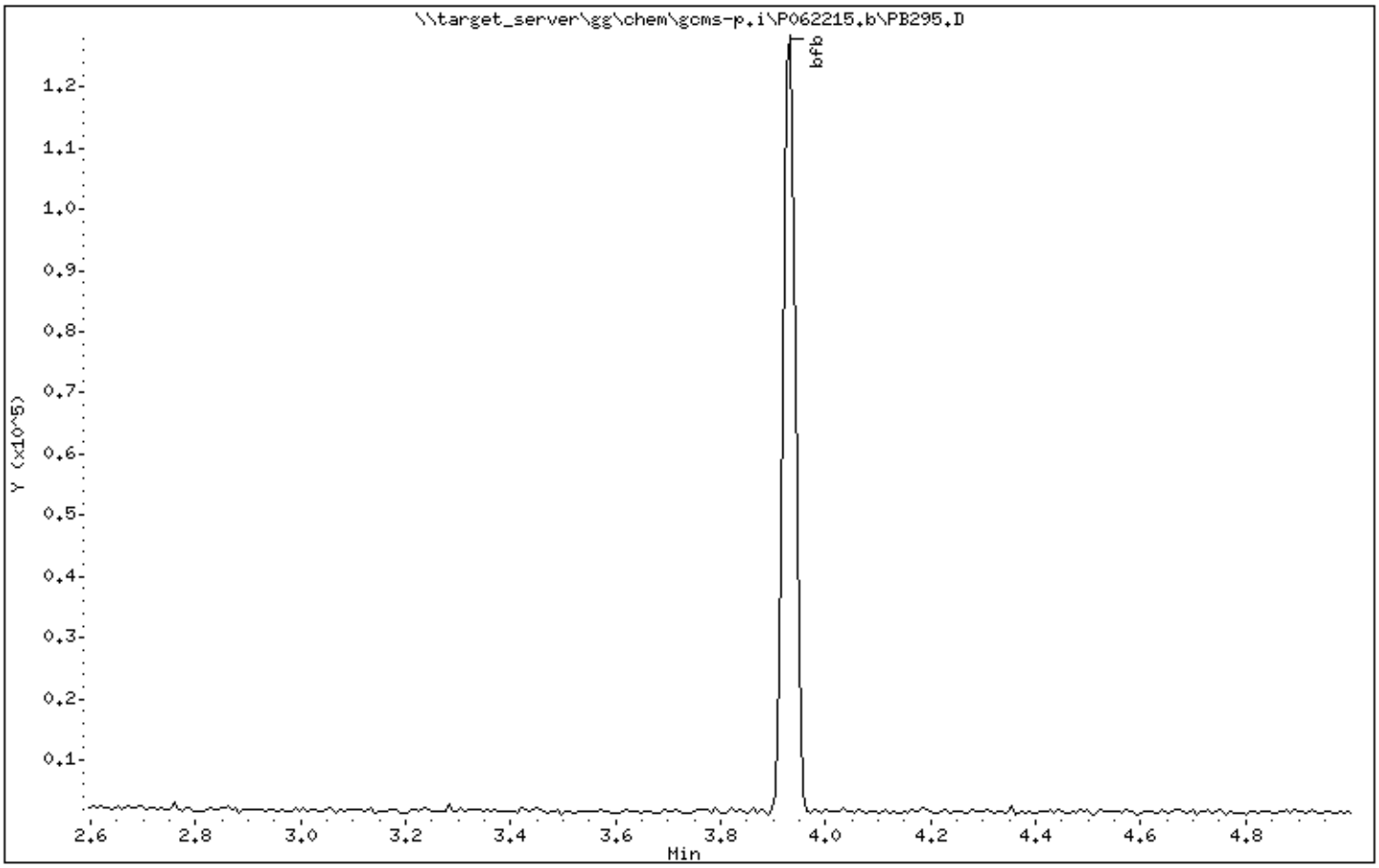
Instrument: gcms-p.i

Sample Info: WG165276-10,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\PB295.D

Date : 22-JUN-2015 09:27

Client ID:

Instrument: gcms-p.i

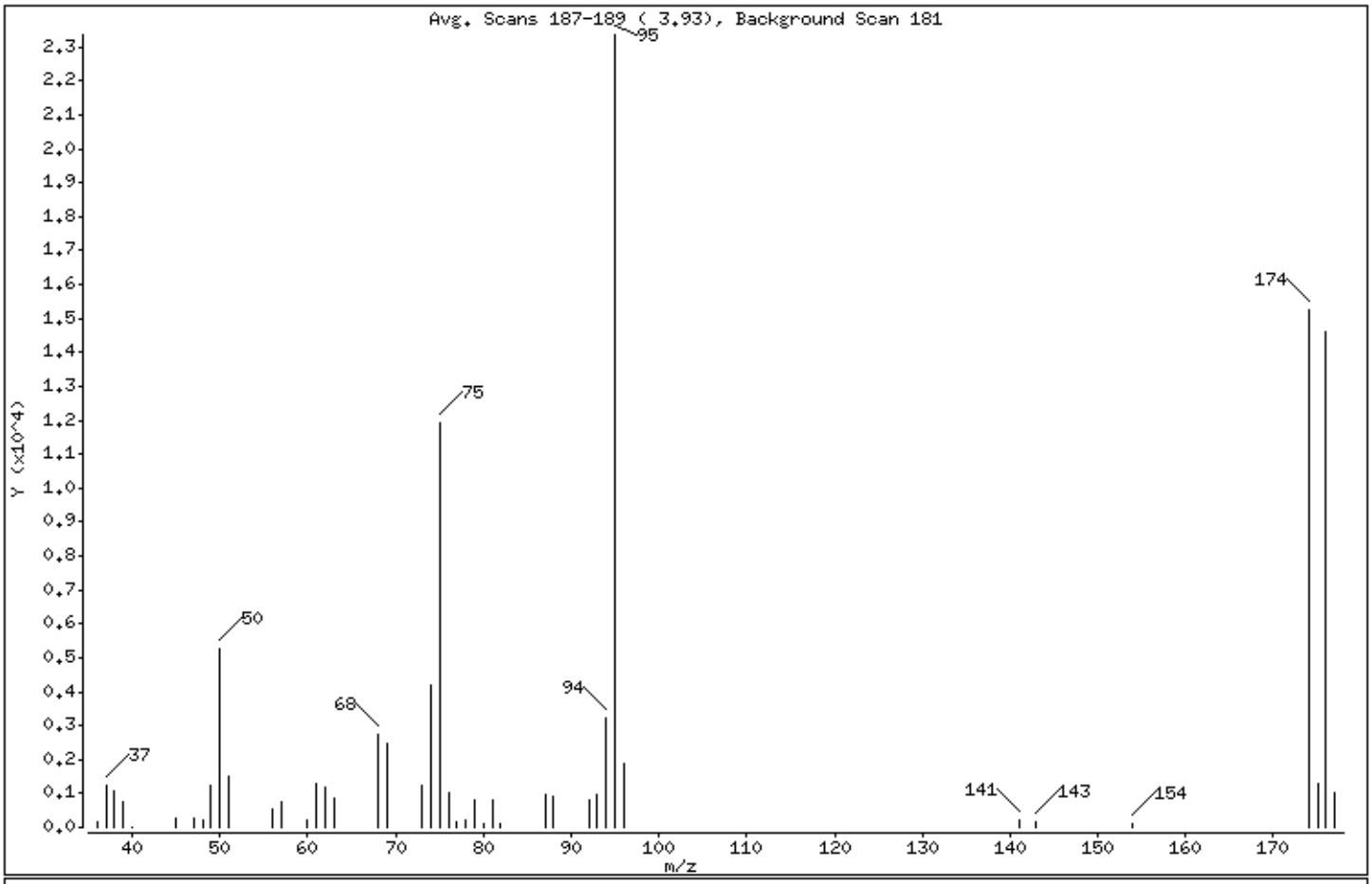
Sample Info: WG165276-10,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.49
75	30.00 - 60.00% of mass 95	50.94
96	5.00 - 9.00% of mass 95	7.98
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	65.27
175	5.00 - 9.00% of mass 174	5.63 (8.62)
176	95.00 - 101.00% of mass 174	62.47 (95.70)
177	5.00 - 9.00% of mass 176	4.31 (6.90)

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\PB295.D

Date : 22-JUN-2015 09:27

Client ID:

Instrument: gcms-p.i

Sample Info: WG165276-10,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: PB295.D
Spectrum: Avg. Scans 187-189 (3.93), Background Scan 181
Location of Maximum: 95.00
Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	186	56.00	542	76.00	1014	94.00	3199
37.00	1233	57.00	757	77.00	135	95.00	23360
38.00	1076	60.00	223	78.00	204	96.00	1864
39.00	776	61.00	1298	79.00	805	141.00	218
40.00	23	62.00	1203	80.00	121	143.00	136
45.00	275	63.00	861	81.00	786	154.00	97
47.00	260	68.00	2733	82.00	122	174.00	15248
48.00	231	69.00	2494	87.00	952	175.00	1315
49.00	1233	73.00	1214	88.00	938	176.00	14592
50.00	5253	74.00	4211	92.00	820	177.00	1007
51.00	1484	75.00	11900	93.00	951		

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\PB298.D

Date : 25-JUN-2015 09:09

Client ID:

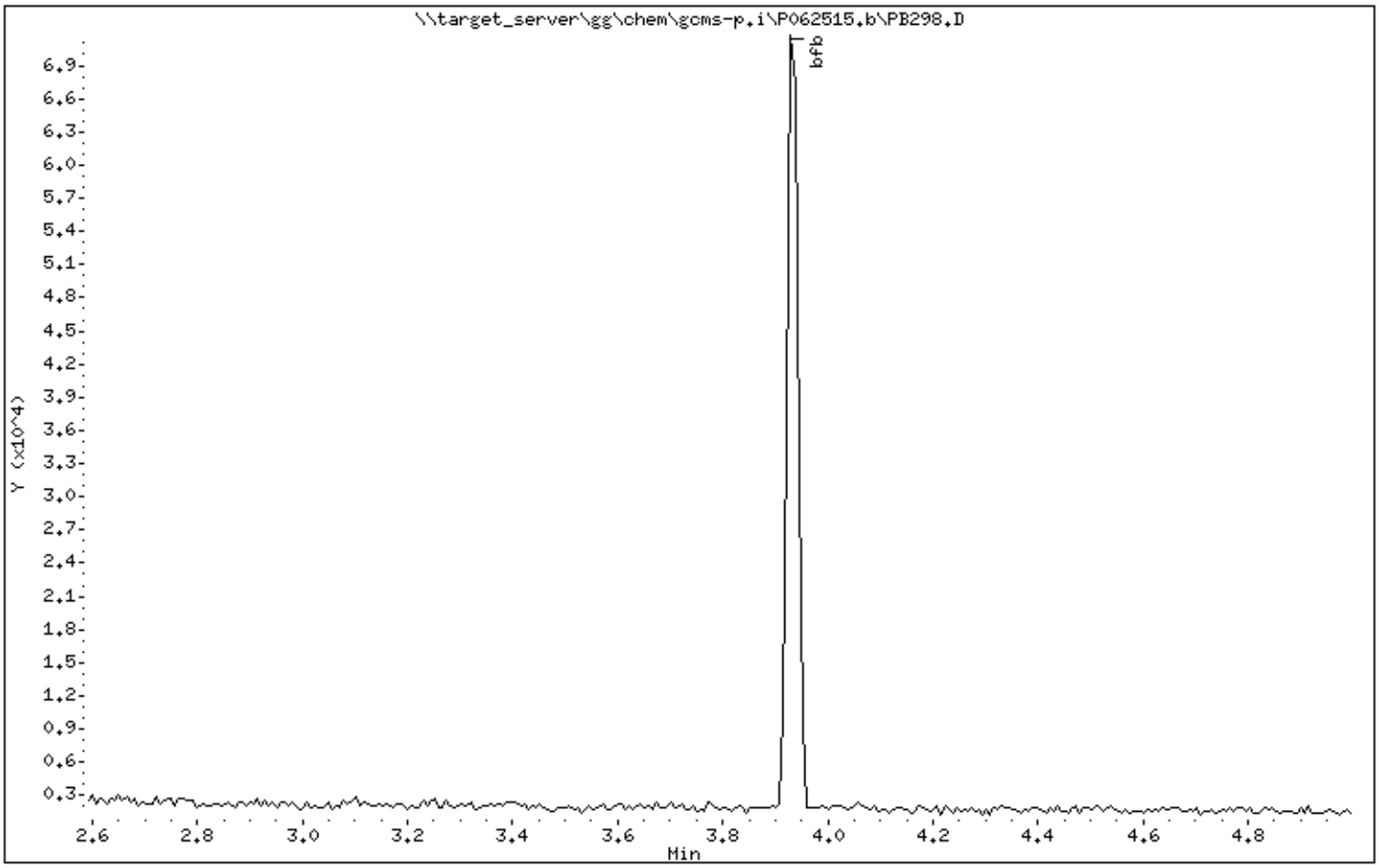
Instrument: gcms-p.i

Sample Info: WG165462-3,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\PB298.D

Date : 25-JUN-2015 09:09

Client ID:

Instrument: gcms-p.i

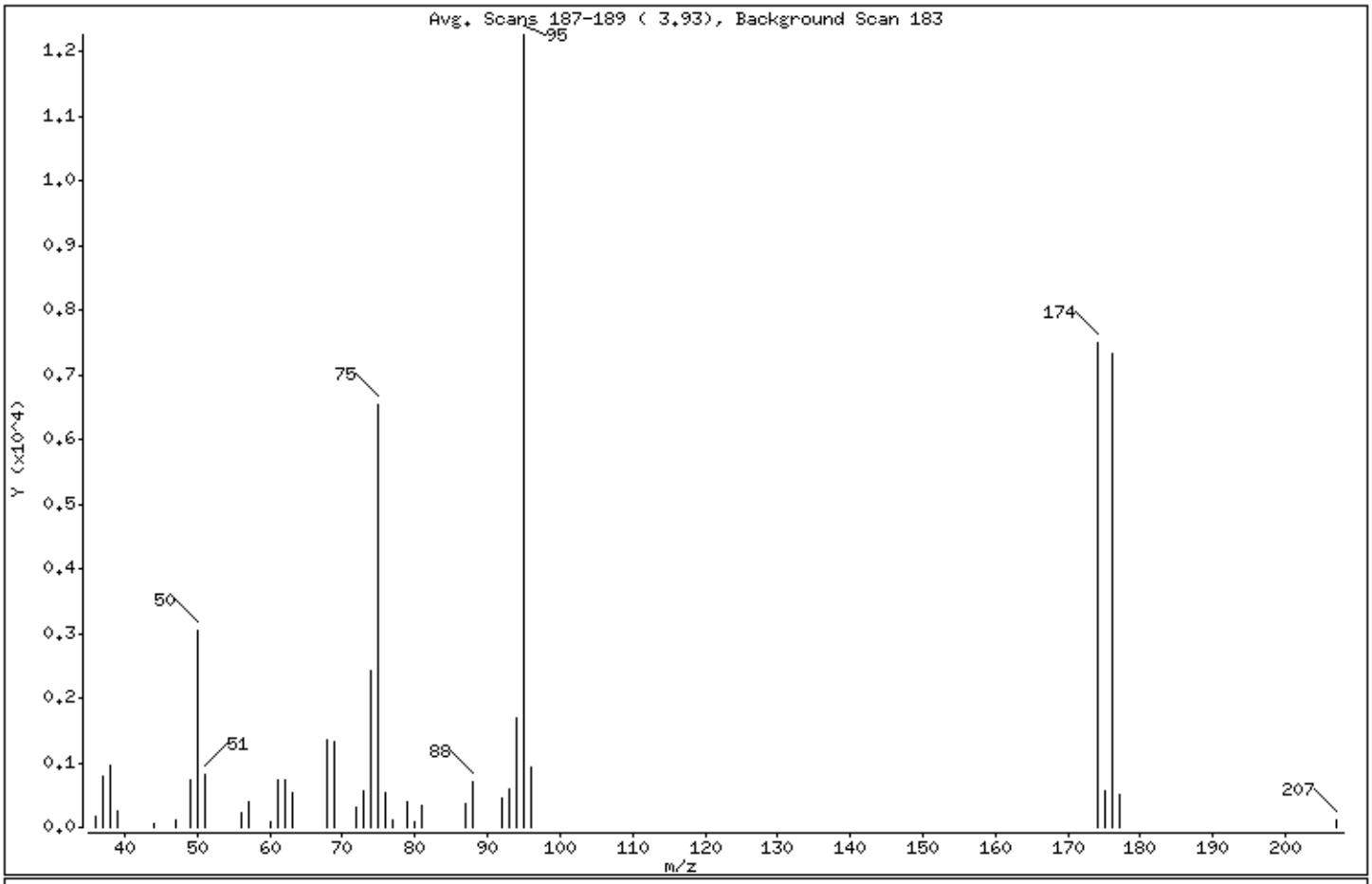
Sample Info: WG165462-3,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.92
75	30.00 - 60.00% of mass 95	53.41
96	5.00 - 9.00% of mass 95	7.56
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	61.26
175	5.00 - 9.00% of mass 174	4.62 (7.55)
176	95.00 - 101.00% of mass 174	59.81 (97.63)
177	5.00 - 9.00% of mass 176	4.17 (6.98)

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\PB298.D

Date : 25-JUN-2015 09:09

Client ID:

Instrument: gcms-p.i

Sample Info: WG165462-3,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: PB298.D
Spectrum: Avg. Scans 187-189 (3.93), Background Scan 183
Location of Maximum: 95.00
Number of points: 38

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	176	57.00	407	75.00	6550	94.00	1683
37.00	795	60.00	98	76.00	535	95.00	12264
38.00	951	61.00	720	77.00	110	96.00	927
39.00	262	62.00	743	79.00	405	174.00	7513
44.00	48	63.00	548	80.00	83	175.00	567
47.00	104	68.00	1340	81.00	352	176.00	7335
49.00	745	69.00	1319	87.00	355	177.00	512
50.00	3056	72.00	298	88.00	708	207.00	101
51.00	818	73.00	551	92.00	438		
56.00	215	74.00	2426	93.00	597		

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\PB299.D

Date : 26-JUN-2015 08:34

Client ID:

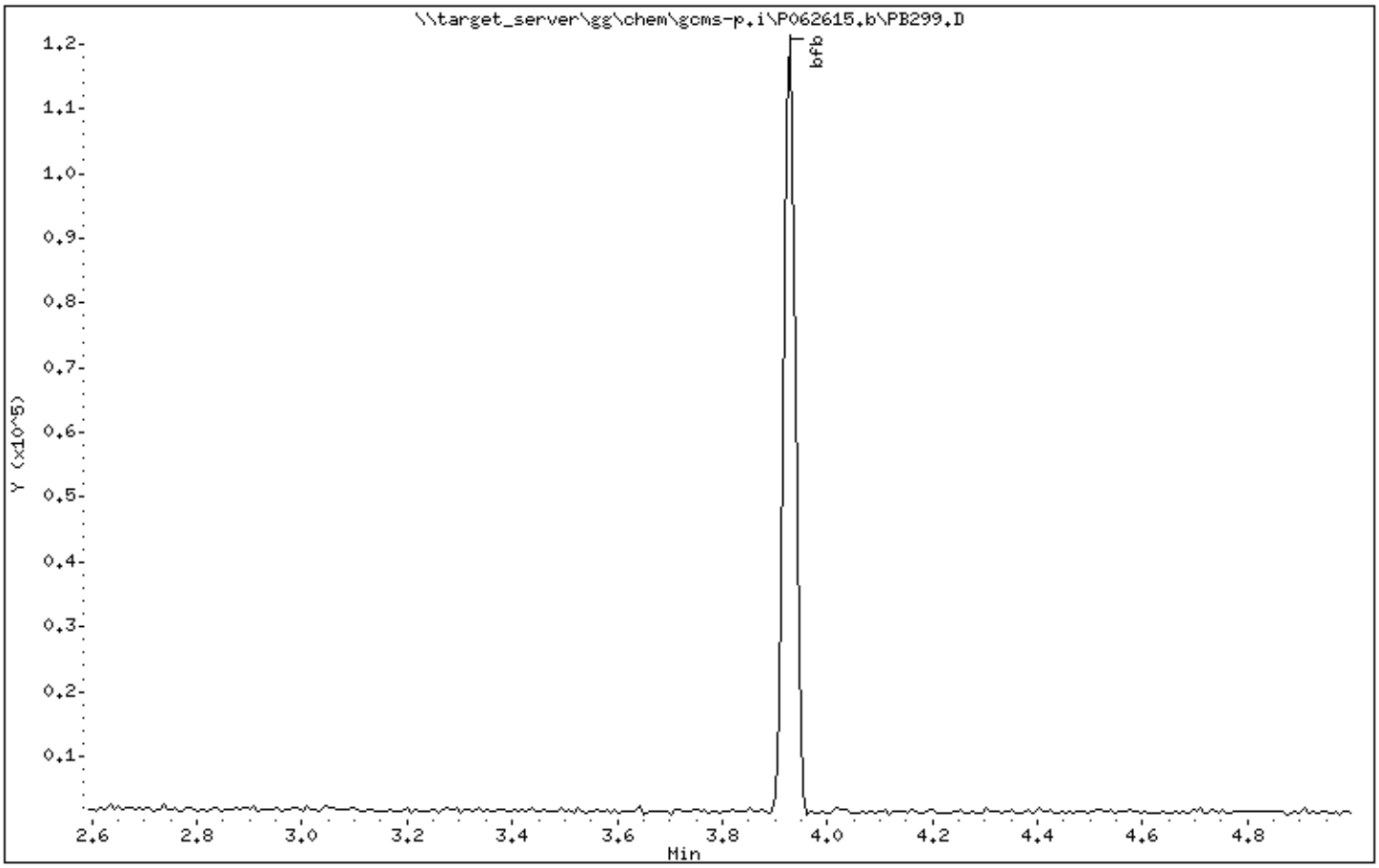
Instrument: gcms-p.i

Sample Info: WG165523-3,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\PB299.D

Date : 26-JUN-2015 08:34

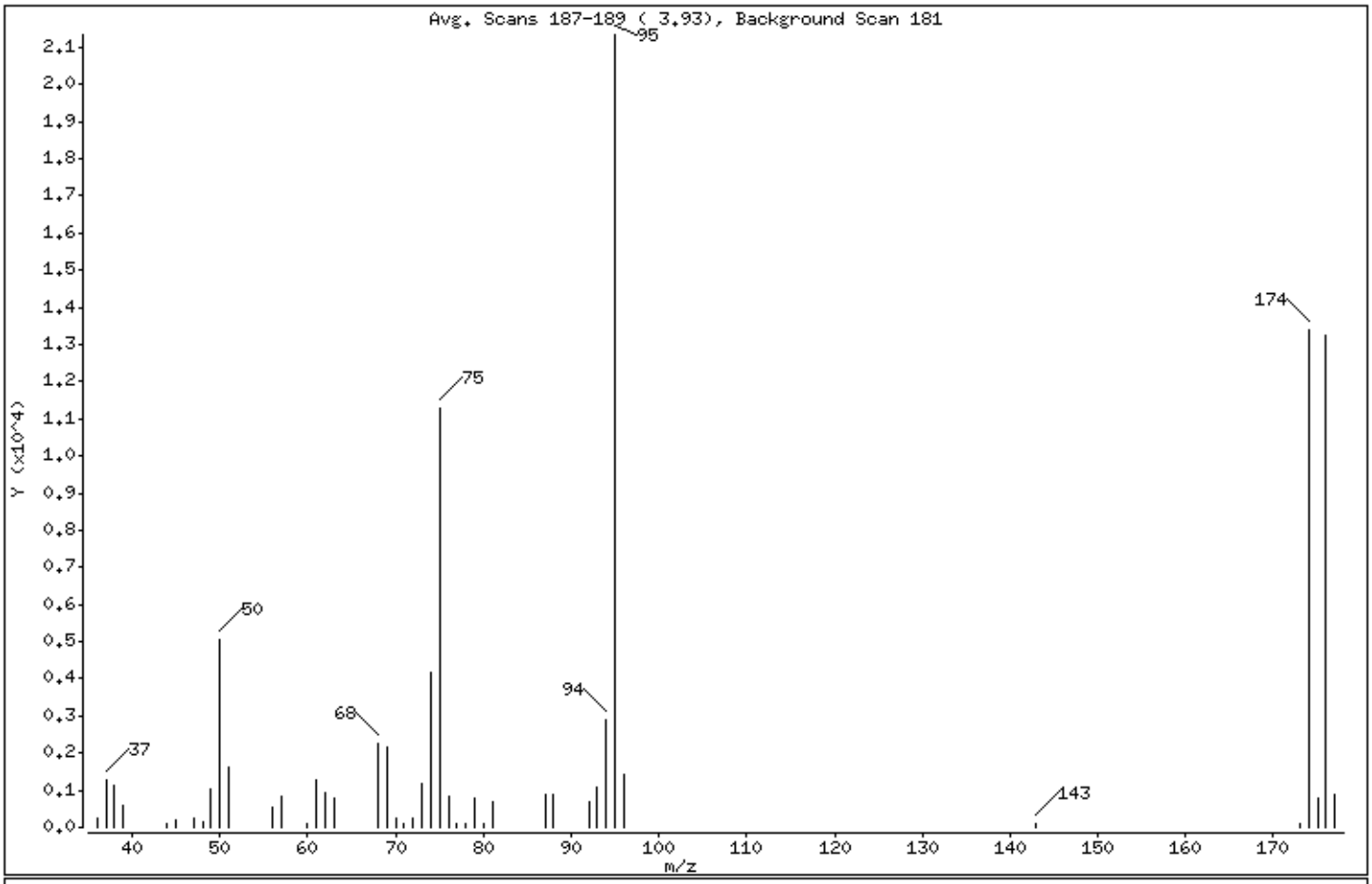
Client ID: Instrument: gcms-p.i

Sample Info: WG165523-3,SI4462

Operator: EME

Column phase: RTX-VMS Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.58
75	30.00 - 60.00% of mass 95	52.98
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.53 (0.85)
174	Greater than 50.00% of mass 95	62.86
175	5.00 - 9.00% of mass 174	3.61 (5.74)
176	95.00 - 101.00% of mass 174	61.98 (98.61)
177	5.00 - 9.00% of mass 176	4.06 (6.55)

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\PB299.D

Date : 26-JUN-2015 08:34

Client ID:

Instrument: gcms-p.i

Sample Info: WG165523-3,SI4462

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: PB299.D
Spectrum: Avg. Scans 187-189 (3.93), Background Scan 181
Location of Maximum: 95.00
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	258	57.00	814	75.00	11303	95.00	21336
37.00	1276	60.00	87	76.00	855	96.00	1440
38.00	1150	61.00	1281	77.00	87	143.00	103
39.00	602	62.00	926	78.00	85	173.00	114
44.00	119	63.00	789	79.00	799	174.00	13411
45.00	206	68.00	2279	80.00	91	175.00	770
47.00	239	69.00	2154	81.00	705	176.00	13225
48.00	135	70.00	226	87.00	894	177.00	866
49.00	1020	71.00	87	88.00	860		
50.00	5032	72.00	221	92.00	684		
51.00	1615	73.00	1191	93.00	1093		
56.00	523	74.00	4172	94.00	2888		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165462-2
Client ID: Method Blank Sample
Project:
SDG: SI4462
Lab File ID: P1614.D

Sample Date:
Received Date:
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	J	2.1	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165462-2
Client ID: Method Blank Sample
Project:
SDG: SI4462
Lab File ID: P1614.D

Sample Date:
Received Date:
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		95.0	%					
Toluene-d8		96.1	%					
1,2-Dichloroethane-d4		96.1	%					
Dibromofluoromethane		91.9	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1614.D
Report Date: 26-Jun-2015 06:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1614.D
Lab Smp Id: WG165462-2 Client Smp ID: WG165462-Blank
Inj Date : 25-JUN-2015 13:03 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165462-2,SI4462
Misc Info : WG165462,WG165276-4,SI4462-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

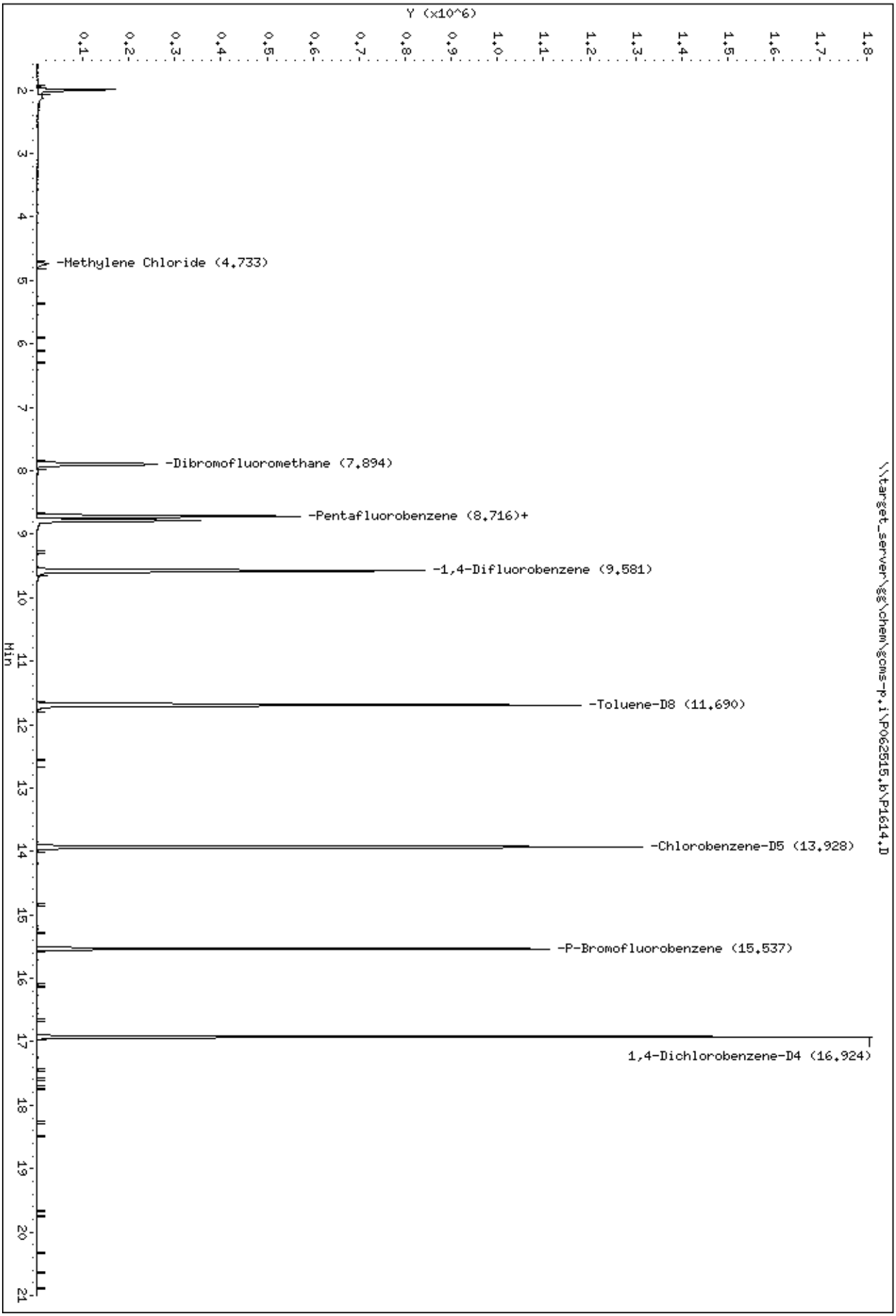
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
14 Methylene Chloride	84	4.740	4.733	(0.543)	15096	2.14460	2.1(a)	
$ 37 Dibromofluoromethane	113	7.893	7.900	(0.905)	190210	45.9493	45.9	
* 42 Pentafluorobenzene	168	8.722	8.715	(1.000)	382704	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	279405	48.0620	48.1	
* 49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	703198	50.0000		
$ 55 Toluene-D8	98	11.690	11.690	(1.220)	747247	48.0362	48.0	
* 66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	648333	50.0000		
$ 76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	335946	47.4763	47.5	
* 91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	358000	50.0000		

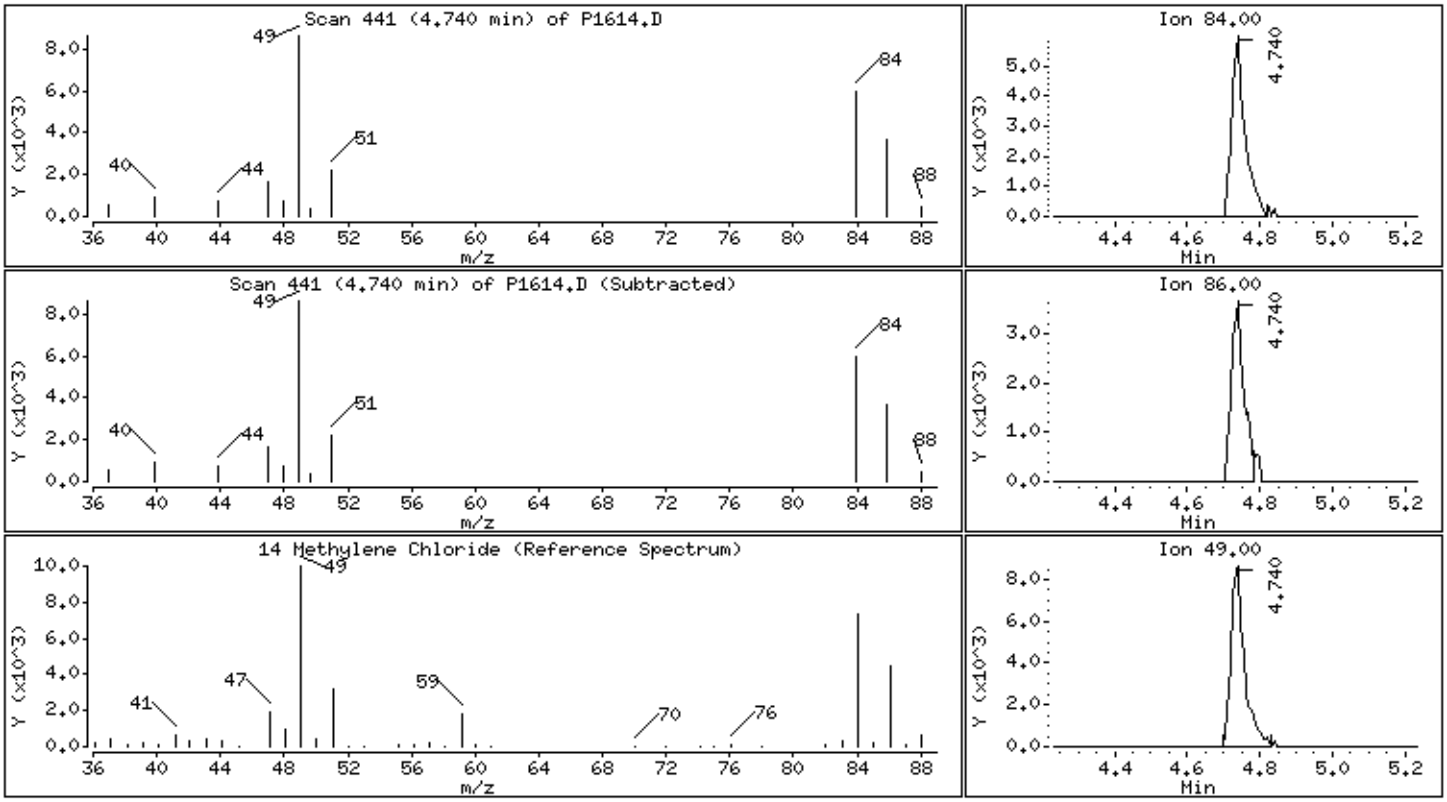
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1614.D
Date : 25-JUN-2015 13:03
Client ID: WG165462-Blank
Sample Info: WG165462-2,SI4462
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062515.b\P1614.D
Y (x10^6)
Min
-Methylene Chloride (4.733)
-Dibromofluoromethane (7.894)
-Pentafluorobenzene (8.716)+
-1,4-Difluorobenzene (9.581)
-Toluene-D8 (11.690)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
1,4-Dichlorobenzene-D4 (16.924)

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1614.D
Date : 25-JUN-2015 13:03
Client ID: WG165462-Blank Instrument: gcms-p.i
Sample Info: WG165462-2,SI4462

14 Methylene Chloride Concentration: 2.1 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165523-2
Client ID: Method Blank Sample
Project:
SDG: SI4462
Lab File ID: P1640.D

Sample Date:
Received Date:
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165523-2
Client ID: Method Blank Sample
Project:
SDG: SI4462
Lab File ID: P1640.D

Sample Date:
Received Date:
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		96.8	%					
Toluene-d8		98.1	%					
1,2-Dichloroethane-d4		98.5	%					
Dibromofluoromethane		94.1	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1640.D
Report Date: 06-Jul-2015 14:54

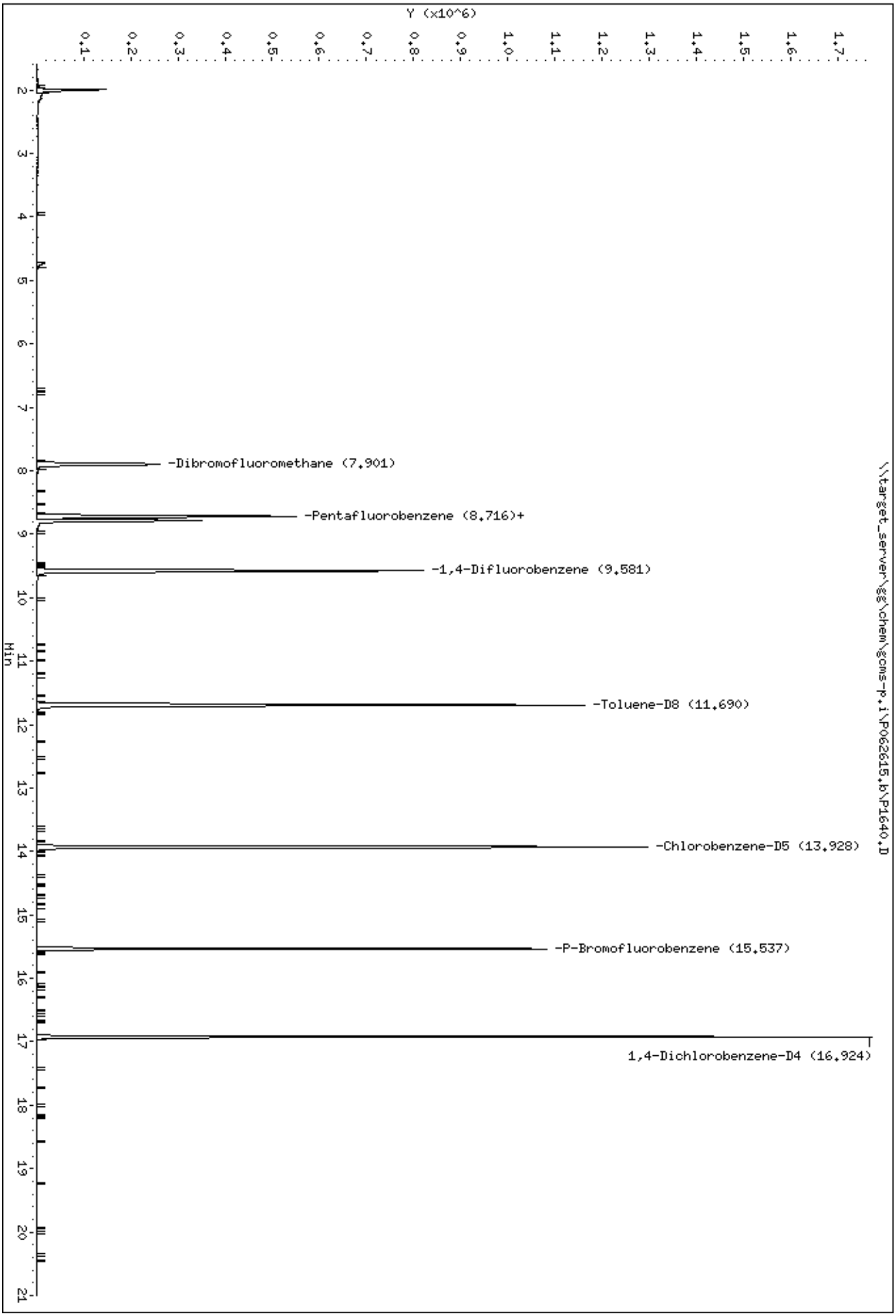
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1640.D
Lab Smp Id: WG165523-2 Client Smp ID: WG165523-Blank
Inj Date : 26-JUN-2015 11:43 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165523-2,SI4462
Misc Info : WG165523,WG165276-4,SI4462-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.893	7.900	(0.906)	189452	47.0497	47.0	
* 42 Pentafluorobenzene	168	8.715	8.715	(1.000)	372264	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.008)	278588	49.2654	49.3	
* 49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	681559	50.0000		
$ 55 Toluene-D8	98	11.690	11.690	(1.220)	739484	49.0464	49.0	
* 66 Chlorobenzene-D5	117	13.928	13.935	(1.000)	625339	50.0000		
$ 76 P-Bromofluorobenzene	95	15.537	15.537	(1.622)	331958	48.4021	48.4	
* 91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	343307	50.0000		


Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1640.D
Date : 26-JUN-2015 11:43
Client ID: WG165523-Blank
Sample Info: WG165523-2,SI4462
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062615.b\P1640.D
Y (x10^6)
Min
-Dibromofluoromethane (7.901)
-Pentafluorobenzene (8.716)+
-1,4-Difluorobenzene (9.581)
-Toluene-D8 (11.690)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
1,4-Dichlorobenzene-D4 (16.924)

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165462-1
Client ID: LCS
Project:
SDG: SI4462
LCS File ID: P1611.D

Sample Date:
Received Date:
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	99.6	50.0	49.8	ug/L	30-155
Chloromethane	102.	50.0	51.1	ug/L	40-125
Vinyl Chloride	100.	50.0	50.0	ug/L	50-145
Bromomethane	90.4	50.0	45.2	ug/L	30-145
Chloroethane	111.	50.0	55.6	ug/L	60-135
Trichlorofluoromethane	104.	50.0	52.1	ug/L	60-145
1,1-Dichloroethene	99.0	50.0	49.5	ug/L	70-130
Carbon Disulfide	101.	50.0	50.4	ug/L	35-160
Freon-113	108.	50.0	53.8	ug/L	73-126
Methylene Chloride	96.6	50.0	48.3	ug/L	55-140
Acetone	97.4	50.0	48.7	ug/L	40-140
trans-1,2-Dichloroethene	104.	50.0	51.9	ug/L	60-140
Methyl tert-butyl Ether	100.	100.	100.	ug/L	65-125
1,1-Dichloroethane	101.	50.0	50.6	ug/L	70-135
cis-1,2-Dichloroethene	88.4	50.0	44.2	ug/L	70-125
Chloroform	95.8	50.0	47.9	ug/L	65-135
1,1,1-Trichloroethane	101.	50.0	50.3	ug/L	65-130
2-Butanone	89.6	50.0	44.8	ug/L	30-150
Cyclohexane	95.0	50.0	47.5	ug/L	71-133
Carbon Tetrachloride	108.	50.0	53.8	ug/L	65-140
Benzene	96.2	50.0	48.1	ug/L	80-120
1,2-Dichloroethane	99.2	50.0	49.6	ug/L	70-130
Trichloroethene	96.4	50.0	48.2	ug/L	70-125
1,2-Dichloropropane	95.4	50.0	47.7	ug/L	75-125
Bromodichloromethane	99.2	50.0	49.6	ug/L	75-120
cis-1,3-Dichloropropene	101.	50.0	50.7	ug/L	70-130
Toluene	94.6	50.0	47.3	ug/L	75-120
4-Methyl-2-Pentanone	96.0	50.0	48.0	ug/L	60-135
trans-1,3-Dichloropropene	109.	50.0	54.4	ug/L	55-140
1,1,2-Trichloroethane	93.2	50.0	46.6	ug/L	75-125
Tetrachloroethene	102.	50.0	51.1	ug/L	45-150
Dibromochloromethane	97.0	50.0	48.5	ug/L	60-135
2-Hexanone	94.6	50.0	47.3	ug/L	55-130
Chlorobenzene	94.4	50.0	47.2	ug/L	80-120
Ethylbenzene	92.8	50.0	46.4	ug/L	75-125

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165462-1
Client ID: LCS
Project:
SDG: SI4462
LCS File ID: P1611.D

Sample Date:
Received Date:
Extract Date: 25-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165462

Analysis Date: 25-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	97.3	150.	146.	ug/L	89-116
Styrene	98.2	50.0	49.1	ug/L	65-135
Bromoform	99.6	50.0	49.8	ug/L	70-130
Isopropylbenzene	102.	50.0	51.0	ug/L	75-125
1,1,2,2-Tetrachloroethane	91.2	50.0	45.6	ug/L	65-130
1,3-Dichlorobenzene	97.2	50.0	48.6	ug/L	75-125
1,4-Dichlorobenzene	95.4	50.0	47.7	ug/L	75-125
1,2-Dichlorobenzene	97.8	50.0	48.9	ug/L	70-120
1,2,4-Trichlorobenzene	93.2	50.0	46.6	ug/L	65-135
Methyl Acetate	93.4	50.0	46.7	ug/L	70-132
Methylcyclohexane	105.	50.0	52.3	ug/L	73-125
o-Xylene	96.6	50.0	48.3	ug/L	80-120
M+P-Xylenes	97.2	100.	97.2	ug/L	75-130
1,2-Dichloroethylene (Total)	96.1	100.	96.1	ug/L	84-121
1,2-Dibromoethane	97.2	50.0	48.6	ug/L	80-120
1,2-Dibromo-3-Chloropropane	96.8	50.0	48.4	ug/L	50-130
P-Bromofluorobenzene	93.2				75-120
Toluene-d8	94.5				85-120
1,2-Dichloroethane-d4	90.0				70-120
Dibromofluoromethane	91.8				85-115

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Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1611.D
Report Date: 26-Jun-2015 06:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062515.b\P1611.D
Lab Smp Id: WG165462-1 Client Smp ID: WG165462-LCS
Inj Date : 25-JUN-2015 11:30 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165462-1,SI4462
Misc Info : WG165462,WG165276-4,SI4462-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062515.b\P826A09.m
Meth Date : 26-Jun-2015 06:47 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.180	2.187	(0.250)	275665	49.8004	49.8	
2 Chloromethane	50	2.437	2.437	(0.280)	403776	51.0769	51.1	
3 Vinyl chloride	62	2.516	2.516	(0.289)	290146	50.0344	50.0	
4 Bromomethane	94	2.909	2.909	(0.334)	135860	45.2487	45.2	
5 Chloroethane	64	3.066	3.067	(0.352)	217599	55.5807	55.6	
6 Trichlorofluoromethane	101	3.231	3.231	(0.371)	401439	52.0678	52.1	
7 Diethyl Ether	59	3.610	3.617	(0.414)	236608	49.9316	49.9	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.609)	75569	189.396	189	
9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	205973	49.4798	49.5	
10 Carbon Disulfide	76	3.946	3.953	(0.453)	769558	50.4210	50.4	
11 Freon-113	151	3.932	3.939	(0.451)	142923	53.8429	53.8	
12 Iodomethane	142	4.103	4.111	(0.471)	184231	44.1320	44.1	
13 Acrolein	56	4.361	4.368	(0.500)	247441	232.914	233	
14 Methylene Chloride	84	4.732	4.733	(0.543)	274929	48.2763	48.3	
15 Acetone	43	4.804	4.804	(0.551)	90200	48.6655	48.7	
16 Isobutyl Alcohol	43	8.965	8.966	(1.029)	152684	828.779	829	
17 trans-1,2-Dichloroethene	96	4.983	4.983	(0.572)	230050	51.8696	51.9	
18 Allyl Chloride	41	4.568	4.568	(0.524)	364373	55.7007	55.7	
19 Methyl tert-butyl ether	73	5.147	5.147	(0.591)	1392663	100.287	100	
20 Acetonitrile	39	5.590	5.598	(0.641)	74612	483.145	483	
21 Di-isopropyl ether	45	5.826	5.827	(0.669)	887398	51.3524	51.4	
22 Chloroprene	53	6.027	6.027	(0.692)	448263	53.5693	53.6	
23 Propionitrile	54	8.615	8.622	(0.989)	360964	486.160	486	
24 Methacrylonitrile	41	8.651	8.651	(0.993)	1551558	515.155	515	

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1611.D
Report Date: 26-Jun-2015 06:54

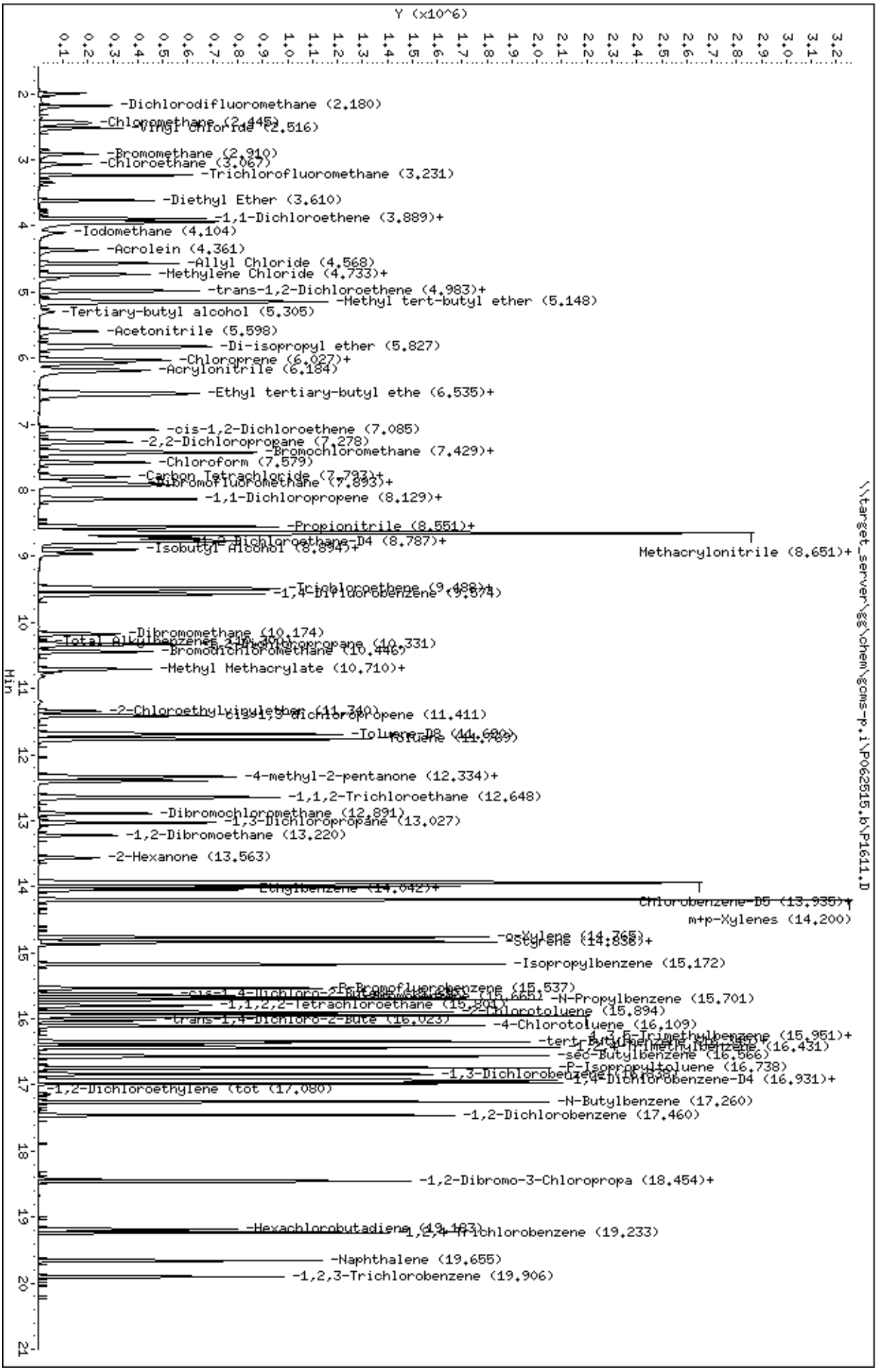
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.077	6.084	(0.697)	435479	50.5501	50.6	
	26 Acrylonitrile	52	6.184	6.191	(0.710)	440766	245.054	245	
	27 Ethyl tertiary-butyl ether	59	6.534	6.535	(0.750)	758896	50.1524	50.2	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	618861	49.7361	49.7	
	29 cis-1,2-Dichloroethene	96	7.085	7.085	(0.813)	240004	44.2307	44.2	
M	30 1,2-Dichloroethylene (total)	96				470054	96.1002	96.1	
	31 Methyl Methacrylate	41	10.710	10.710	(1.119)	229817	51.7988	51.8	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.835)	293529	47.2090	47.2	
	33 Bromochloromethane	128	7.442	7.435	(0.854)	100093	47.4554	47.4	
	34 Chloroform	83	7.578	7.578	(0.870)	421779	47.9155	47.9	
	35 Carbon Tetrachloride	117	7.793	7.800	(0.814)	283763	53.7796	53.8	
	36 Tetrahydrofuran	42	7.850	7.843	(0.901)	67878	46.9450	46.9	
$	37 Dibromofluoromethane	113	7.893	7.900	(0.906)	201160	45.8778	45.9	
	38 1,1,1-Trichloroethane	97	7.921	7.922	(0.909)	367396	50.3152	50.3	
	39 1,1-Dichloropropene	75	8.129	8.135	(0.849)	330565	51.2389	51.2	
	40 2-Butanone	43	8.122	8.115	(0.932)	103079	44.7979	44.8	
	41 Benzene	78	8.551	8.558	(0.893)	907836	48.0759	48.1	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	405367	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	375795	47.4675	47.5	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.119)	167887	44.7865	44.8	
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.008)	276953	44.9768	45.0	
	46 Tertiary-amyl methyl ether	73	8.758	8.765	(1.005)	593370	47.5471	47.5	
	47 1,2-Dichloroethane	62	8.894	8.894	(0.929)	345380	49.6309	49.6	
	48 Trichloroethene	95	9.509	9.509	(0.993)	231508	48.2072	48.2	
*	49 1,4-Difluorobenzene	114	9.573	9.573	(1.000)	749436	50.0000		
	50 Dibromomethane	93	10.174	10.174	(1.063)	137106	48.5032	48.5	
	51 1,2-Dichloropropane	63	10.331	10.338	(1.079)	228161	47.7416	47.7	
	52 Bromodichloromethane	83	10.445	10.446	(1.091)	337156	49.6322	49.6	
	53 cis-1,3-dichloropropene	75	11.411	11.418	(1.192)	387866	50.6788	50.7	
	54 1,4-Dioxane	88	10.753	10.753	(1.123)	42996	661.207	661	
$	55 Toluene-D8	98	11.690	11.690	(1.221)	783459	47.2567	47.2	
	56 2-Chloroethylvinylether	63	11.339	11.339	(1.184)	106579	50.8014	50.8	
	57 Toluene	92	11.768	11.768	(1.229)	587734	47.3399	47.3	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.291)	216856	47.9835	48.0	
	59 Tetrachloroethene	164	12.333	12.333	(0.886)	175299	51.1390	51.1	
	60 trans-1,3-Dichloropropene	75	12.405	12.405	(1.296)	355285	54.4147	54.4	
	61 1,1,2-Trichloroethane	83	12.633	12.634	(1.320)	174322	46.6177	46.6	
	62 Dibromochloromethane	129	12.891	12.891	(0.926)	235213	48.5210	48.5	
	63 1,3-Dichloropropane	76	13.027	13.027	(0.935)	386270	45.3607	45.4	
	64 1,2-Dibromoethane	107	13.220	13.220	(1.381)	210144	48.6282	48.6	
	65 2-Hexanone	43	13.563	13.563	(0.974)	152145	47.2914	47.3	
*	66 Chlorobenzene-D5	117	13.928	13.935	(1.000)	690352	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	635282	47.2094	47.2	
	152 1-Chlorohexane	91	13.935	13.935	(1.000)	319553	42.6652	42.7	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	341350	46.4348	46.4	
	69 1,1,1,2-Tetrachloroethane	131	14.042	14.049	(1.008)	227909	50.2567	50.2	
M	70 Xylenes (total)	106				1283811	145.533	146	
	71 m+p-Xylenes	106	14.199	14.199	(1.020)	857858	97.2523	97.2	
	72 o-Xylene	106	14.764	14.764	(1.060)	425953	48.2807	48.3	
	73 Styrene	104	14.836	14.836	(1.065)	740574	49.0610	49.1	
	74 Bromoform	173	14.864	14.872	(1.067)	145836	49.7720	49.8	
	75 Isopropylbenzene	105	15.172	15.172	(0.896)	1137368	51.0268	51.0	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.623)	351306	46.5839	46.6	
	77 cis-1,4-Dichloro-2-Butene	53	15.622	15.622	(0.923)	114445	47.0414	47.0	

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1611.D
Report Date: 26-Jun-2015 06:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	93489	52.3351	52.3	
	79 Bromobenzene	156	15.665	15.665	(0.926)	264342	46.8011	46.8	
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	1389344	52.3904	52.4	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	302026	45.5921	45.6	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	969131	49.3631	49.4	
	83 2-Chlorotoluene	91	15.894	15.894	(0.939)	853923	50.0049	50.0	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	239847	47.2324	47.2	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	881573	49.1530	49.2	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	905824	48.2036	48.2	
	87 Pentachloroethane	117	16.373	16.373	(0.967)	191089	49.1936	49.2	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	1020358	52.1202	52.1	
	89 P-Isopropyltoluene	119	16.745	16.745	(0.989)	1075141	50.7468	50.7	
	90 1,3-Dichlorobenzene	146	16.838	16.838	(0.995)	556219	48.6056	48.6	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	370514	50.0000		
	92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	557225	47.6891	47.7	
	93 N-Butylbenzene	91	17.259	17.260	(1.020)	1015733	50.8164	50.8	
	94 sec-Butylbenzene	105	16.566	16.565	(0.979)	1239720	51.1640	51.2	
	95 1,2-Dichlorobenzene	146	17.460	17.460	(1.032)	536785	48.9009	48.9	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	57917	48.4199	48.4	
	97 1,3,5-Trichlorobenzene	180	18.461	18.461	(1.091)	369866	48.8855	48.9	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	116754	48.0262	48.0	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	329001	46.6126	46.6	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	1066891	52.3260	52.3	
	101 Naphthalene	128	19.655	19.655	(1.161)	768283	45.6696	45.7	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	254099	46.4413	46.4	
	103 Methyl Acetate	43	4.997	4.997	(0.573)	191874	46.7473	46.7	
	104 Methylcyclohexane	83	9.480	9.480	(1.088)	401607	52.3281	52.3	
M	153 Total Alkylbenzenes	100				7615251	354.805	355	

Data File: \\target_server\gg\chem\gcms-p.i\P062515.b\P1611.D
Date : 25-JUN-2015 11:30
Client ID: WG165462-LCS
Sample Info: WG165462-1,SI4462
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165523-1
Client ID: LCS
Project:
SDG: SI4462
LCS File ID: P1637.D

Sample Date:
Received Date:
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	99.4	50.0	49.7	ug/L	30-155
Chloromethane	105.	50.0	52.4	ug/L	40-125
Vinyl Chloride	102.	50.0	51.0	ug/L	50-145
Bromomethane	98.0	50.0	49.0	ug/L	30-145
Chloroethane	112.	50.0	56.0	ug/L	60-135
Trichlorofluoromethane	111.	50.0	55.3	ug/L	60-145
1,1-Dichloroethene	103.	50.0	51.7	ug/L	70-130
Carbon Disulfide	104.	50.0	52.0	ug/L	35-160
Freon-113	111.	50.0	55.6	ug/L	73-126
Methylene Chloride	98.2	50.0	49.1	ug/L	55-140
Acetone	120.	50.0	59.8	ug/L	40-140
trans-1,2-Dichloroethene	108.	50.0	53.8	ug/L	60-140
Methyl tert-butyl Ether	112.	100.	112.	ug/L	65-125
1,1-Dichloroethane	109.	50.0	54.5	ug/L	70-135
cis-1,2-Dichloroethene	94.4	50.0	47.2	ug/L	70-125
Chloroform	103.	50.0	51.3	ug/L	65-135
1,1,1-Trichloroethane	108.	50.0	54.0	ug/L	65-130
2-Butanone	113.	50.0	56.6	ug/L	30-150
Cyclohexane	98.6	50.0	49.3	ug/L	71-133
Carbon Tetrachloride	115.	50.0	57.4	ug/L	65-140
Benzene	100.	50.0	50.2	ug/L	80-120
1,2-Dichloroethane	111.	50.0	55.6	ug/L	70-130
Trichloroethene	99.2	50.0	49.6	ug/L	70-125
1,2-Dichloropropane	100.	50.0	50.1	ug/L	75-125
Bromodichloromethane	107.	50.0	53.3	ug/L	75-120
cis-1,3-Dichloropropene	107.	50.0	53.7	ug/L	70-130
Toluene	101.	50.0	50.4	ug/L	75-120
4-Methyl-2-Pentanone	119.	50.0	59.7	ug/L	60-135
trans-1,3-Dichloropropene	120.	50.0	59.8	ug/L	55-140
1,1,2-Trichloroethane	102.	50.0	51.0	ug/L	75-125
Tetrachloroethene	103.	50.0	51.5	ug/L	45-150
Dibromochloromethane	110.	50.0	54.8	ug/L	60-135
2-Hexanone	118.	50.0	59.2	ug/L	55-130
Chlorobenzene	100.	50.0	50.0	ug/L	80-120
Ethylbenzene	99.0	50.0	49.5	ug/L	75-125

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165523-1
Client ID: LCS
Project:
SDG: SI4462
LCS File ID: P1637.D

Sample Date:
Received Date:
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 06-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	105.	150.	157.	ug/L	89-116
Styrene	106.	50.0	53.0	ug/L	65-135
Bromoform	113.	50.0	56.5	ug/L	70-130
Isopropylbenzene	102.	50.0	51.2	ug/L	75-125
1,1,2,2-Tetrachloroethane	98.6	50.0	49.3	ug/L	65-130
1,3-Dichlorobenzene	97.8	50.0	48.9	ug/L	75-125
1,4-Dichlorobenzene	98.8	50.0	49.4	ug/L	75-125
1,2-Dichlorobenzene	100.	50.0	50.1	ug/L	70-120
1,2,4-Trichlorobenzene	101.	50.0	50.4	ug/L	65-135
Methyl Acetate	117.	50.0	58.5	ug/L	70-132
Methylcyclohexane	108.	50.0	54.2	ug/L	73-125
o-Xylene	105.	50.0	52.4	ug/L	80-120
M+P-Xylenes	105.	100.	105.	ug/L	75-130
1,2-Dichloroethylene (Total)	101.	100.	101.	ug/L	84-121
1,2-Dibromoethane	108.	50.0	53.8	ug/L	80-120
1,2-Dibromo-3-Chloropropane	117.	50.0	58.6	ug/L	50-130
P-Bromofluorobenzene	101.				75-120
Toluene-d8	103.				85-120
1,2-Dichloroethane-d4	99.4				70-120
Dibromofluoromethane	99.0				85-115

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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1637.D
Report Date: 06-Jul-2015 14:53

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Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1637.D
Lab Smp Id: WG165523-1 Client Smp ID: WG165523-LCS
Inj Date : 26-JUN-2015 09:52
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165523-1,SI4462
Misc Info : WG165523,WG165276-4,SI4462-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.187	2.187	(0.251)	242430	49.7397	49.7	
2 Chloromethane	50	2.437	2.437	(0.280)	364908	52.4243	52.4	
3 Vinyl chloride	62	2.515	2.516	(0.289)	260335	50.9859	51.0	
4 Bromomethane	94	2.909	2.909	(0.334)	129818	49.0027	49.0	
5 Chloroethane	64	3.059	3.067	(0.351)	192486	55.9623	56.0	
6 Trichlorofluoromethane	101	3.230	3.231	(0.371)	375456	55.3063	55.3	
7 Diethyl Ether	59	3.617	3.617	(0.415)	232339	55.6844	55.7	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.609)	98592	281.422	281	
9 1,1-Dichloroethene	96	3.888	3.889	(0.446)	189530	51.7084	51.7	
10 Carbon Disulfide	76	3.946	3.953	(0.453)	699267	52.0329	52.0	
11 Freon-113	151	3.931	3.939	(0.451)	130045	55.6398	55.6	
12 Iodomethane	142	4.110	4.111	(0.472)	159602	43.3695	43.4	
13 Acrolein	56	4.367	4.368	(0.501)	259807	277.741	278	
14 Methylene Chloride	84	4.732	4.733	(0.543)	246267	49.1239	49.1	
15 Acetone	43	4.811	4.804	(0.552)	97649	59.8340	59.8	
16 Isobutyl Alcohol	43	8.965	8.966	(1.029)	183350	1126.84	1130	
17 trans-1,2-Dichloroethene	96	4.982	4.983	(0.572)	210046	53.7861	53.8	
18 Allyl Chloride	41	4.568	4.568	(0.524)	358679	62.2710	62.3(R)	
19 Methyl tert-butyl ether	73	5.147	5.147	(0.591)	1368216	111.897	112	
20 Acetonitrile	39	5.597	5.598	(0.642)	80711	593.564	594	
21 Di-isopropyl ether	45	5.826	5.827	(0.669)	823645	54.1312	54.1	
22 Chloroprene	53	6.033	6.027	(0.692)	421760	57.2419	57.2	
23 Propionitrile	54	8.622	8.622	(0.989)	389143	595.236	595(R)	
24 Methacrylonitrile	41	8.650	8.651	(0.993)	1619079	610.525	610	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1637.D
Report Date: 06-Jul-2015 14:53

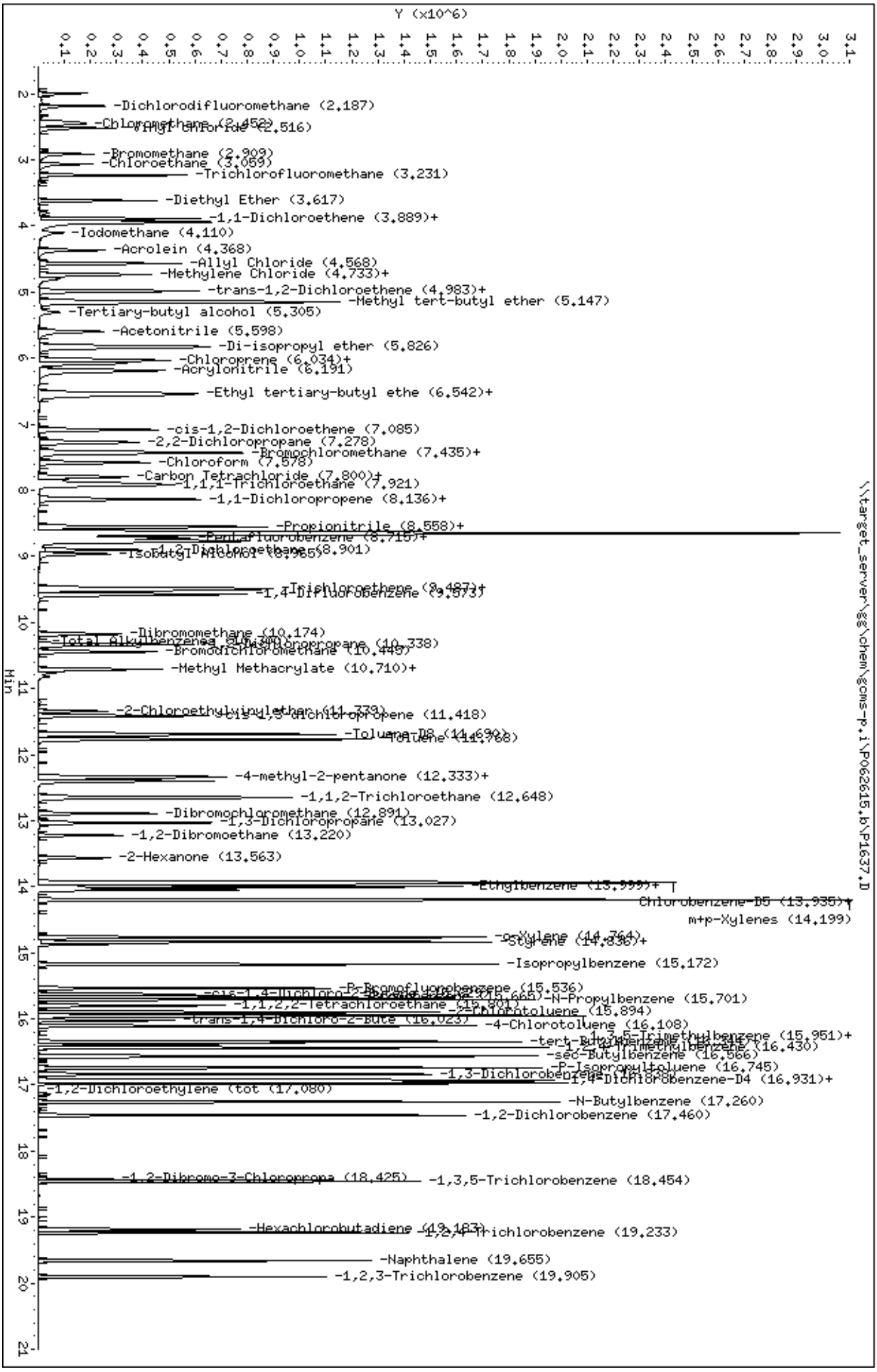
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.076	6.084	(0.697)	413211	54.4744	54.5	
	26 Acrylonitrile	52	6.191	6.191	(0.710)	457904	289.130	289	
	27 Ethyl tertiary-butyl ether	59	6.534	6.535	(0.750)	715845	53.7272	53.7	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	621799	56.3819	56.4	
	29 cis-1,2-Dichloroethene	96	7.084	7.085	(0.813)	225382	47.1726	47.2	
M	30 1,2-Dichloroethylene (total)	96				435428	100.959	101	
	31 Methyl Methacrylate	41	10.710	10.710	(1.119)	240455	61.1480	61.1(R)	
	32 2,2-Dichloropropane	77	7.277	7.278	(0.835)	302211	55.2013	55.2	
	33 Bromochloromethane	128	7.442	7.435	(0.854)	92165	49.6264	49.6	
	34 Chloroform	83	7.578	7.578	(0.870)	397700	51.3112	51.3	
	35 Carbon Tetrachloride	117	7.799	7.800	(0.815)	268373	57.3867	57.4	
	36 Tetrahydrofuran	42	7.849	7.843	(0.901)	72587	57.0144	57.0	
$	37 Dibromofluoromethane	113	7.892	7.900	(0.906)	191101	49.4981	49.5	
	38 1,1,1-Trichloroethane	97	7.921	7.922	(0.909)	347420	54.0362	54.0	
	39 1,1-Dichloropropene	75	8.135	8.135	(0.850)	308286	53.9147	53.9	
	40 2-Butanone	43	8.121	8.115	(0.932)	114587	56.5572	56.6	
	41 Benzene	78	8.557	8.558	(0.894)	839718	50.1724	50.2	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	356930	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	343588	49.2889	49.3	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.119)	174291	52.4120	52.4	
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.008)	269451	49.6967	49.7	
	46 Tertiary-amyl methyl ether	73	8.765	8.765	(1.006)	563177	51.2518	51.2	
	47 1,2-Dichloroethane	62	8.901	8.894	(0.930)	342939	55.6010	55.6	
	48 Trichloroethene	95	9.508	9.509	(0.993)	210976	49.5667	49.6	
*	49 1,4-Difluorobenzene	114	9.573	9.573	(1.000)	664238	50.0000		
	50 Dibromomethane	93	10.173	10.174	(1.063)	132240	52.7823	52.8	
	51 1,2-Dichloropropane	63	10.338	10.338	(1.080)	212173	50.0906	50.1	
	52 Bromodichloromethane	83	10.445	10.446	(1.091)	321146	53.3391	53.3	
	53 cis-1,3-dichloropropene	75	11.417	11.418	(1.193)	364401	53.7199	53.7	
	54 1,4-Dioxane	88	10.760	10.753	(1.124)	52058	903.249	903	
$	55 Toluene-D8	98	11.689	11.690	(1.221)	755454	51.4122	51.4	
	56 2-Chloroethylvinylether	63	11.339	11.339	(1.184)	110471	67.8448	67.8(R)	
	57 Toluene	92	11.768	11.768	(1.229)	554572	50.3982	50.4	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.291)	239329	59.7485	59.7	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	154693	51.5375	51.5	
	60 trans-1,3-Dichloropropene	75	12.404	12.405	(1.296)	346113	59.8092	59.8	
	61 1,1,2-Trichloroethane	83	12.640	12.634	(1.320)	169027	50.9994	51.0	
	62 Dibromochloromethane	129	12.890	12.891	(0.925)	232774	54.8381	54.8	
	63 1,3-Dichloropropane	76	13.033	13.027	(0.935)	371878	49.8734	49.9	
	64 1,2-Dibromoethane	107	13.219	13.220	(1.381)	206037	53.7932	53.8	
	65 2-Hexanone	43	13.562	13.563	(0.973)	166876	59.2378	59.2	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	604492	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	588708	49.9623	50.0	
	152 1-Chlorohexane	91	13.934	13.935	(1.000)	294177	44.8559	44.8	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	318837	49.5327	49.5	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	214271	53.9605	54.0	
M	70 Xylenes (total)	106				1213910	157.155	157	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	809131	104.757	105	
	72 o-Xylene	106	14.764	14.764	(1.060)	404779	52.3974	52.4	
	73 Styrene	104	14.835	14.836	(1.065)	700859	53.0248	53.0	
	74 Bromoform	173	14.864	14.872	(1.067)	144935	56.4903	56.5	
	75 Isopropylbenzene	105	15.171	15.172	(0.896)	1067348	51.2596	51.2	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.623)	336681	50.3709	50.4	
	77 cis-1,4-Dichloro-2-Butene	53	15.629	15.622	(0.924)	127865	56.3114	56.3	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1637.D
Report Date: 06-Jul-2015 14:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	103423	61.9757	62.0	
	79 Bromobenzene	156	15.665	15.665	(0.926)	254279	48.1916	48.2	
	80 N-Propylbenzene	91	15.700	15.701	(0.928)	1309343	52.8527	52.8	
	81 1,1,2,2-Tetrachloroethane	83	15.800	15.801	(0.934)	304920	49.2723	49.3	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	918421	50.0765	50.1	
	83 2-Chlorotoluene	91	15.901	15.894	(0.940)	794075	49.7768	49.8	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	251197	52.9532	53.0	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	841871	50.2468	50.2	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	849856	48.4119	48.4	
	87 Pentachloroethane	117	16.372	16.373	(0.967)	191126	52.6701	52.7	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	970972	53.0923	53.1	
	89 P-Isopropyltoluene	119	16.744	16.745	(0.989)	1024995	51.7889	51.8	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	523120	48.9343	48.9	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	346125	50.0000		
	92 1,4-Dichlorobenzene	146	16.944	16.945	(1.001)	539140	49.3926	49.4	
	93 N-Butylbenzene	91	17.259	17.260	(1.020)	975053	52.2185	52.2	
	94 sec-Butylbenzene	105	16.565	16.565	(0.979)	1167762	51.5902	51.6	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.032)	513349	50.0612	50.1	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	65457	58.5795	58.6	
	97 1,3,5-Trichlorobenzene	180	18.460	18.461	(1.091)	363492	51.4283	51.4	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	114255	50.3099	50.3	
	99 1,2,4-Trichlorobenzene	180	19.232	19.233	(1.136)	332233	50.3872	50.4	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	1018952	53.4962	53.5	
	101 Naphthalene	128	19.654	19.655	(1.161)	871180	55.1591	55.2	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	278560	54.4994	54.5	
	103 Methyl Acetate	43	4.997	4.997	(0.573)	211522	58.5277	58.5	
	104 Methylcyclohexane	83	9.487	9.480	(1.089)	366133	54.1799	54.2	
M	153 Total Alkylbenzenes	100				7216402	360.031	360	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1637.D
Date : 26-JUN-2015 09:52
Client ID: WG165523-LCS
Sample Info: WG165523-1,SI4462
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18
Y (x10^6)
Min
-Dichlorodifluoromethane (2.187)
-Chloromethane (2.452)
Vinyl Chloride (2.516)
-Bromomethane (2.909)
-Chloroethane (3.059)
-Trichlorofluoromethane (3.231)
-Diethyl Ether (3.617)
-1,1-Dichloroethene (3.889)+
-Iodomethane (4.110)
-Acrolein (4.368)
-Allyl Chloride (4.568)
-Methylene Chloride (4.733)+
-trans-1,2-Dichloroethene (4.983)+
-Methyl tert-butyl ether (5.147)
-Tertiary-butyl alcohol (5.305)
-Acetonitrile (5.598)
-Di-isopropyl ether (5.826)
-Chloroprene (6.034)+
-Acrylonitrile (6.191)
-Ethyl tertiary-butyl ethe (6.542)+
-cis-1,2-Dichloroethene (7.085)
-2,2-Dichloropropane (7.278)
-Bromochloromethane (7.435)+
-Chloroform (7.578)
-Carbon Tetrachloride (7.800)+
-1,1,1-Trichloroethane (7.921)
-1,1-Dichloropropene (8.136)+
-Propionitrile (8.558)+
-Pentafluorobenzene (8.715)+
-1,2-Dichloroethane (8.901)
-Isobutyl Alcohol (8.965)
-Trichloroethene (9.487)+
-1,4-Difluorobenzene (9.573)
-Dibromomethane (10.174)
-Total Alkylbenzenes 9.00-11.00
-1,3-Dichloropropane (10.338)
-Bromodichloromethane (10.449)
-Methyl Methacrylate (10.710)+
-2-Chloroethylvinylether (11.379)
-cis-1,3-Dichloropropene (11.418)
-Toluene-D8 (11.690)
Toluene (11.768)
-4-methyl-2-pentanone (12.333)+
-1,1,2-Trichloroethane (12.648)
-Dibromochloromethane (12.891)
-1,3-Dichloropropane (13.027)
-1,2-Dibromoethane (13.220)
-2-Hexanone (13.563)
-Ethylbenzene (13.999)+
Chlorobenzene-D5 (13.935)+
m+p-Xylenes (14.199)
-o-Xylene (14.764)
Styrene (14.836)+
-Isopropylbenzene (15.172)
-P-Bromofluorobenzene (15.536)
-N-Propylbenzene (15.701)
-1,1,2,2-Tetrachloroethane (15.801)
-2-Chlorotoluene (15.894)
-trans-1,4-Dichloro-2-Bute (16.023)
-4-Chlorotoluene (16.108)
-1,3,5-Trimethylbenzene (15.951)+
-tert-Butylbenzene (16.316)
-1,2,4-Trimethylbenzene (16.430)
-sec-Butylbenzene (16.566)
-P-Isopropyltoluene (16.745)
-1,3-Dichlorobenzene (16.814)
-1,4-Dichlorobenzene-D4 (16.931)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.260)
-1,2-Dichlorobenzene (17.460)
-1,2-Dibromo-3-Chloroprope (18.425)
-1,3,5-Trichlorobenzene (18.454)
-Hexachlorobutadiene (19.183)
-1,2,4-Trichlorobenzene (19.233)
-Naphthalene (19.655)
-1,2,3-Trichlorobenzene (19.905)
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Katahdin
ANALYTICAL SERVICES

Cert No E87604

MS/MSD Recovery Report

MS ID: WG165523-6
MSD ID: WG165523-7
Sample ID: SI4462-4
Client ID: RE103D1-GW-062215
Project:
SDG: SI4462
MS File ID: P1657.D

Received Date:
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523
Report Date: 06-JUL-15
MSD File ID: P1658.D

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dichlorodifluoromethane	500.	500.	ug/L	U10	512.	398.	102.	79.6	25	30	30-155
Chloromethane	500.	500.	ug/L	U10	567.	438.	113.	87.6	26	30	40-125
Vinyl Chloride	500.	500.	ug/L	U10	559.	431.	112.	86.2	26	30	50-145
Bromomethane	500.	500.	ug/L	U10	410.	364.	82.0	72.8	12	30	30-145
Chloroethane	500.	500.	ug/L	UM10	704.	462.	141.*	92.4	42*	30	60-135
Trichlorofluoromethane	500.	500.	ug/L	U10	608.	455.	122.	91.0	29	30	60-145
1,1-Dichloroethene	500.	500.	ug/L	J4.6	598.	441.	119.	87.3	30	30	70-130
Carbon Disulfide	500.	500.	ug/L	U5.0	600.	446.	120.	89.2	29	30	35-160
Freon-113	500.	500.	ug/L	JM8.4	590.	342.	116.	66.7*	53*	30	73-126
Methylene Chloride	500.	500.	ug/L	U25	568.	424.	114.	84.8	29	30	55-140
Acetone	500.	500.	ug/L	U25	579.	434.	116.	86.8	29	30	40-140
trans-1,2-Dichloroethene	500.	500.	ug/L	U5.0	619.	454.	124.	90.8	31*	30	60-140
Methyl tert-butyl Ether	1000	1000	ug/L	U5.0	1150	799.	115.	79.9	36*	30	65-125
1,1-Dichloroethane	500.	500.	ug/L	U5.0	612.	458.	122.	91.6	29	30	70-135
cis-1,2-Dichloroethene	500.	500.	ug/L	U5.0	544.	399.	109.	79.8	31*	30	70-125
Chloroform	500.	500.	ug/L	U5.0	602.	438.	120.	87.6	32*	30	65-135
1,1,1-Trichloroethane	500.	500.	ug/L	U5.0	628.	463.	126.	92.6	30	30	65-130
2-Butanone	500.	500.	ug/L	U25	552.	426.	110.	85.2	26	30	30-150
Cyclohexane	500.	500.	ug/L	U5.0	521.	408.	104.	81.6	24	30	71-133
Carbon Tetrachloride	500.	500.	ug/L	U5.0	660.	493.	132.	98.6	29	30	65-140
Benzene	500.	500.	ug/L	U5.0	574.	431.	115.	86.2	28	30	80-120
1,2-Dichloroethane	500.	500.	ug/L	U5.0	642.	475.	128.	95.0	30	30	70-130
Trichloroethene	500.	500.	ug/L	810	1350	1210	107.	79.2	11	30	70-125
1,2-Dichloropropane	500.	500.	ug/L	U5.0	566.	428.	113.	85.6	28	30	75-125
Bromodichloromethane	500.	500.	ug/L	UM5.0	609.	447.	122.*	89.4	31*	30	75-120
cis-1,3-Dichloropropene	500.	500.	ug/L	U5.0	579.	429.	116.	85.8	30	30	70-130
Toluene	500.	500.	ug/L	U5.0	567.	418.	113.	83.6	30	30	75-120
4-Methyl-2-Pentanone	500.	500.	ug/L	U25	626.	464.	125.	92.8	30	30	60-135
trans-1,3-Dichloropropene	500.	500.	ug/L	U5.0	636.	479.	127.	95.8	28	30	55-140
1,1,2-Trichloroethane	500.	500.	ug/L	U5.0	578.	426.	116.	85.2	30	30	75-125
Tetrachloroethene	500.	500.	ug/L	J4.2	576.	420.	114.	83.2	31*	30	45-150
Dibromochloromethane	500.	500.	ug/L	U5.0	615.	450.	123.	90.0	31*	30	60-135
2-Hexanone	500.	500.	ug/L	U25	600.	438.	120.	87.6	31*	30	55-130

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

MS/MSD Recovery Report

MS ID: WG165523-6
MSD ID: WG165523-7
Sample ID: SI4462-4
Client ID: RE103D1-GW-062215
Project:
SDG: SI4462
MS File ID: P1657.D

Received Date:
Extract Date: 26-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165523
Report Date: 06-JUL-15
MSD File ID: P1658.D

Analysis Date: 26-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Chlorobenzene	500.	500.	ug/L	U5.0	570.	412.	114.	82.4	32*	30	80-120
Ethylbenzene	500.	500.	ug/L	U5.0	554.	401.	111.	80.2	32*	30	75-125
Xylenes (total)	1500	1500	ug/L	UM15	1720	1270	115.	84.7*	30	30	89-116
Styrene	500.	500.	ug/L	U5.0	588.	428.	118.	85.6	31*	30	65-135
Bromoform	500.	500.	ug/L	U5.0	633.	455.	127.	91.0	33*	30	70-130
Isopropylbenzene	500.	500.	ug/L	U5.0	568.	414.	114.	82.8	31*	30	75-125
1,1,2,2-Tetrachloroethane	500.	500.	ug/L	U5.0	542.	404.	108.	80.8	29	30	65-130
1,3-Dichlorobenzene	500.	500.	ug/L	U5.0	542.	395.	108.	79.0	31*	30	75-125
1,4-Dichlorobenzene	500.	500.	ug/L	U5.0	538.	396.	108.	79.2	30	30	75-125
1,2-Dichlorobenzene	500.	500.	ug/L	U5.0	559.	411.	112.	82.2	30	30	70-120
1,2,4-Trichlorobenzene	500.	500.	ug/L	U5.0	544.	396.	109.	79.2	31*	30	65-135
Methyl Acetate	500.	500.	ug/L	U7.5	572.	373.	114.	74.6	42*	30	70-132
Methylcyclohexane	500.	500.	ug/L	UM5.0	556.	326.	111.	65.2*	52*	30	73-125
o-Xylene	500.	500.	ug/L	U5.0	575.	424.	115.	84.8	30	30	80-120
M+P-Xylenes	1000	1000	ug/L	U10	1150	845.	115.	84.5	30	30	75-130
1,2-Dichloroethylene (Total)	1000	1000	ug/L	U10	1160	853.	116.	85.3	30	30	84-121
1,2-Dibromoethane	500.	500.	ug/L	U5.0	591.	443.	118.	88.6	29	30	80-120
1,2-Dibromo-3-Chloropropane	500.	500.	ug/L	U7.5	616.	455.	123.	91.0	30	30	50-130
P-Bromofluorobenzene							95.4	94.4			75-120
Toluene-d8							94.6	95.9			85-120
1,2-Dichloroethane-d4							94.2	95.3			70-120
Dibromofluoromethane							91.3	90.9			85-115

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Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1657.D
Report Date: 06-Jul-2015 14:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1657.D
Lab Smp Id: WG165523-6 Client Smp ID: RE103D1-GW-062215MS
Inj Date : 26-JUN-2015 19:10 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165523-6,SI4462
Misc Info : WG165523,WG165276-4,SI4462-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 22 QC Sample: MS
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.186	2.187	(0.251)	251025	51.2196	512(R)	
2 Chloromethane	50	2.444	2.437	(0.280)	397146	56.7416	567(R)	
3 Vinyl chloride	62	2.515	2.516	(0.288)	286981	55.8950	559(R)	
4 Bromomethane	94	2.916	2.909	(0.334)	108602	40.9677	410(R)	
5 Chloroethane	64	3.066	3.067	(0.352)	225477	70.3863	704(R)	
6 Trichlorofluoromethane	101	3.230	3.231	(0.370)	414913	60.7820	608(R)	
7 Diethyl Ether	59	3.616	3.617	(0.415)	250726	59.7604	598(R)	
8 Tertiary-butyl alcohol	59	5.311	5.305	(0.609)	72506	204.983	2050(R)	
9 1,1-Dichloroethene	96	3.895	3.889	(0.447)	220270	59.7641	598(R)	
10 Carbon Disulfide	76	3.952	3.953	(0.453)	810473	59.9758	600(R)	
11 Freon-113	151	3.938	3.939	(0.452)	138775	59.0480	590(R)	
12 Iodomethane	142	4.110	4.111	(0.471)	120364	32.1980	322(R)	
13 Acrolein	56	4.367	4.368	(0.501)	263458	280.093	2800(R)	
14 Methylene Chloride	84	4.739	4.733	(0.543)	286034	56.8515	568(R)	
15 Acetone	43	4.810	4.804	(0.552)	94967	57.8703	579(R)	
16 Isobutyl Alcohol	43	8.965	8.966	(1.028)	160739	982.353	9820(R)	
17 trans-1,2-Dichloroethene	96	4.982	4.983	(0.571)	243265	61.9495	619(R)	
18 Allyl Chloride	41	4.567	4.568	(0.524)	383450	66.2050	662(R)	
19 Methyl tert-butyl ether	73	5.154	5.147	(0.591)	1415898	115.159	1150(R)	
20 Acetonitrile	39	5.604	5.598	(0.643)	81284	594.486	5940(R)	
21 Di-isopropyl ether	45	5.833	5.827	(0.669)	949259	62.0433	620(R)	
22 Chloroprene	53	6.033	6.027	(0.692)	490261	66.1726	662(R)	
23 Propionitrile	54	8.622	8.622	(0.989)	408774	621.822	6220(R)	
24 Methacrylonitrile	41	8.657	8.651	(0.993)	1787885	670.467	6700(R)	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1657.D
Report Date: 06-Jul-2015 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.083	6.084	(0.698)	466934	61.2179	612(R)	
	26 Acrylonitrile	52	6.198	6.191	(0.711)	496620	311.850	3120(R)	
	27 Ethyl tertiary-butyl ether	59	6.541	6.535	(0.750)	779623	58.1918	582(R)	
	28 Vinyl Acetate	43	6.577	6.570	(0.687)	646940	58.9203	589(R)	
	29 cis-1,2-Dichloroethene	96	7.091	7.085	(0.813)	261208	54.3700	544(R)	
M	30 1,2-Dichloroethylene (total)	96				504473	116.319	1160(R)	
	31 Methyl Methacrylate	41	10.709	10.710	(1.118)	266300	68.0192	680(R)	
	32 2,2-Dichloropropane	77	7.277	7.278	(0.834)	239824	43.5646	436(R)	
	33 Bromochloromethane	128	7.442	7.435	(0.853)	105033	56.2439	562(R)	
	34 Chloroform	83	7.585	7.578	(0.870)	469219	60.2052	602(R)	
	35 Carbon Tetrachloride	117	7.799	7.800	(0.814)	307379	66.0174	660(R)	
	36 Tetrahydrofuran	42	7.856	7.843	(0.901)	71871	56.1412	561(R)	
$	37 Dibromofluoromethane	113	7.899	7.900	(0.906)	177220	45.6500	45.6	
	38 1,1,1-Trichloroethane	97	7.928	7.922	(0.909)	405814	62.7710	628(R)	
	39 1,1-Dichloropropene	75	8.135	8.135	(0.849)	350691	61.6013	616(R)	
	40 2-Butanone	43	8.121	8.115	(0.931)	112466	55.2047	552(R)	
	41 Benzene	78	8.557	8.558	(0.893)	956251	57.3871	574(R)	
*	42 Pentafluorobenzene	168	8.722	8.715	(1.000)	358906	50.0000		
	43 Cyclohexane	56	7.427	7.428	(0.852)	365244	52.1071	521(R)	
	44 Ethyl Methacrylate	69	10.709	10.710	(1.118)	192502	58.1141	581(R)	
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.007)	256901	47.1212	47.1	
	46 Tertiary-amyl methyl ether	73	8.765	8.765	(1.005)	623538	56.4325	564(R)	
	47 1,2-Dichloroethane	62	8.900	8.894	(0.929)	394271	64.2054	642(R)	
	48 Trichloroethene	95	9.515	9.509	(0.993)	574041	135.460	1350(R)	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	661321	50.0000		
	50 Dibromomethane	93	10.180	10.174	(1.063)	148133	59.3866	594(R)	
	51 1,2-Dichloropropane	63	10.338	10.338	(1.079)	238485	56.5508	566(R)	
	52 Bromodichloromethane	83	10.445	10.446	(1.090)	364955	60.8828	609(R)	
	53 cis-1,3-dichloropropene	75	11.417	11.418	(1.192)	390875	57.8769	579(R)	
	54 1,4-Dioxane	88	10.759	10.753	(1.123)	36318	632.927	6330(R)	
$	55 Toluene-D8	98	11.689	11.690	(1.220)	691927	47.2966	47.3	
	57 Toluene	92	11.768	11.768	(1.228)	620867	56.6718	567(R)	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.290)	249747	62.6244	626(R)	
	59 Tetrachloroethene	164	12.332	12.333	(0.885)	176566	57.6593	576(R)	
	60 trans-1,3-Dichloropropene	75	12.404	12.405	(1.295)	366329	63.5818	636(R)	
	61 1,1,2-Trichloroethane	83	12.640	12.634	(1.319)	190759	57.8104	578(R)	
	62 Dibromochloromethane	129	12.890	12.891	(0.925)	266240	61.4796	615(R)	
	63 1,3-Dichloropropane	76	13.033	13.027	(0.935)	421389	55.3939	554(R)	
	64 1,2-Dibromoethane	107	13.219	13.220	(1.380)	225445	59.1200	591(R)	
	65 2-Hexanone	43	13.562	13.563	(0.973)	172569	60.0450	600(R)	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	616710	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	684974	56.9805	570(R)	
	152 1-Chlorohexane	91	13.934	13.935	(1.000)	318522	47.6058	476(R)	
	68 Ethylbenzene	106	13.998	13.999	(1.005)	363701	55.3831	554(R)	
	69 1,1,1,2-Tetrachloroethane	131	14.048	14.049	(1.008)	248780	61.4098	614(R)	
M	70 Xylenes (total)	106				1357024	172.202	1720(R)	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	903547	114.663	1150(R)	
	72 o-Xylene	106	14.763	14.764	(1.060)	453477	57.5383	575(R)	
	73 Styrene	104	14.835	14.836	(1.065)	793355	58.8336	588(R)	
	74 Bromoform	173	14.871	14.872	(1.067)	165594	63.2637	633(R)	
	75 Isopropylbenzene	105	15.171	15.172	(0.896)	1200654	56.8261	568(R)	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	317360	47.6897	47.7	
	77 cis-1,4-Dichloro-2-Butene	53	15.629	15.622	(0.923)	126724	54.9943	550(R)	
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.946)	102864	60.7476	607(R)	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1657.D
Report Date: 06-Jul-2015 14:54

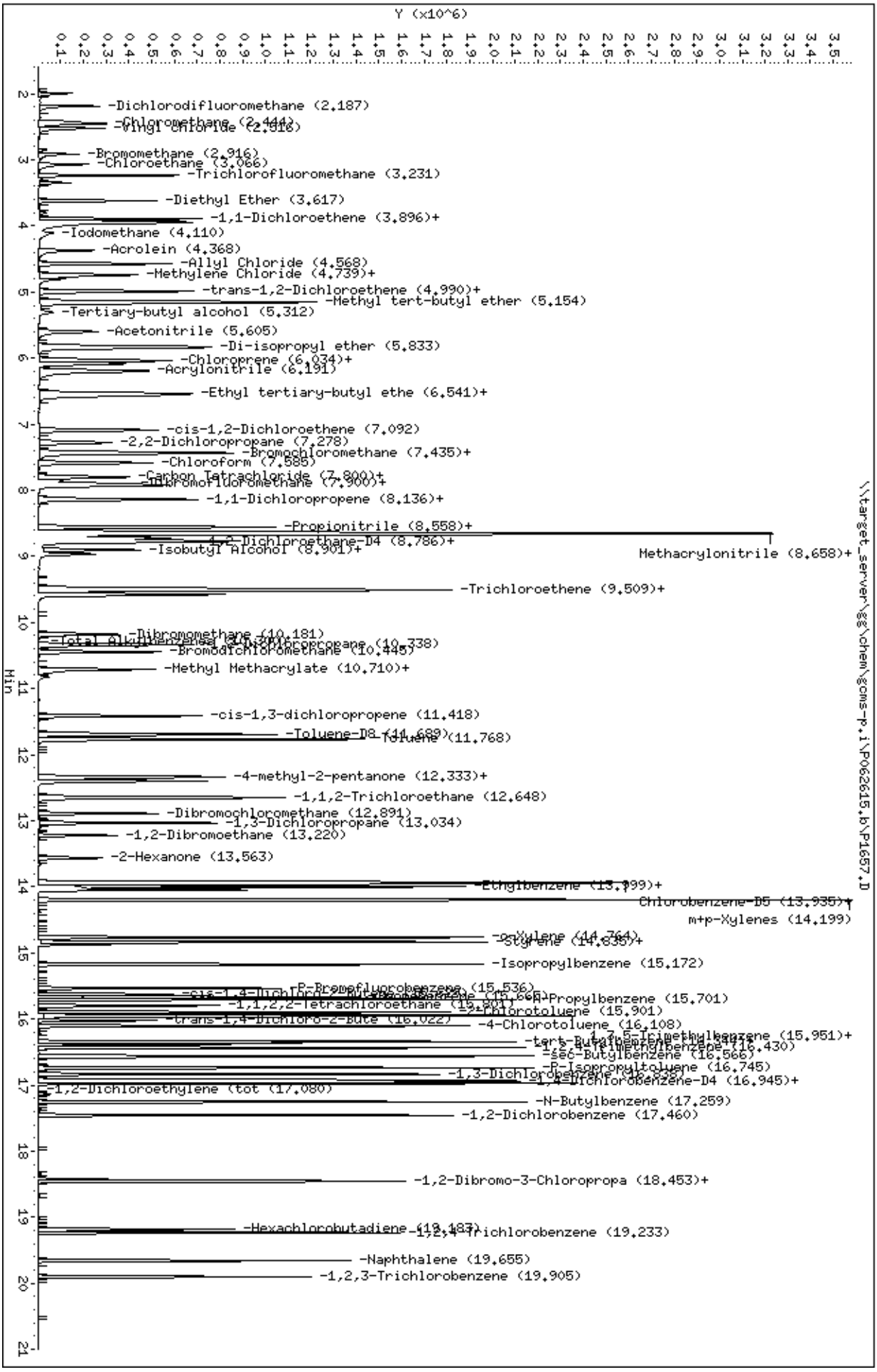
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	79 Bromobenzene	156	15.664	15.665	(0.925)	288847	53.9498	539(R)	
	80 N-Propylbenzene	91	15.700	15.701	(0.927)	1439708	57.2729	573(R)	
	81 1,1,2,2-Tetrachloroethane	83	15.800	15.801	(0.933)	340215	54.1790	542(R)	
	82 1,3,5-Trimethylbenzene	105	15.950	15.951	(0.942)	1031161	55.4089	554(R)	
	83 2-Chlorotoluene	91	15.900	15.894	(0.939)	908787	56.1421	561(R)	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	279123	57.9875	580(R)	
	85 4-Chlorotoluene	91	16.108	16.109	(0.951)	950109	55.8853	559(R)	
	86 tert-Butylbenzene	119	16.344	16.344	(0.965)	955374	53.6342	536(R)	
	87 Pentachloroethane	117	16.372	16.373	(0.967)	218518	59.3462	593(R)	
	88 1,2,4-Trimethylbenzene	105	16.437	16.430	(0.971)	1079149	58.1524	582(R)	
	89 P-Isopropyltoluene	119	16.744	16.745	(0.989)	1114692	55.5049	555(R)	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	588340	54.2377	542(R)	
*	91 1,4-Dichlorobenzene-D4	152	16.930	16.924	(1.000)	351214	50.0000		
	92 1,4-Dichlorobenzene	146	16.944	16.945	(1.001)	595862	53.7981	538(R)	
	93 N-Butylbenzene	91	17.259	17.260	(1.019)	1052987	55.5751	556(R)	
	94 sec-Butylbenzene	105	16.565	16.565	(0.978)	1286588	56.0162	560(R)	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.031)	581970	55.9307	559(R)	
	96 1,2-Dibromo-3-Chloropropane	75	18.424	18.425	(1.088)	69839	61.5955	616(R)	
	97 1,3,5-Trichlorobenzene	180	18.460	18.461	(1.090)	405830	56.5864	566(R)	
	98 Hexachlorobutadiene	225	19.189	19.190	(1.133)	125613	54.5097	545(R)	
	99 1,2,4-Trichlorobenzene	180	19.232	19.233	(1.136)	364088	54.4183	544(R)	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	1162585	60.1527	602(R)	
	101 Naphthalene	128	19.654	19.655	(1.161)	920706	57.3966	574(R)	
	102 1,2,3-Trichlorobenzene	180	19.904	19.905	(1.176)	303396	58.4984	585(R)	
	103 Methyl Acetate	43	5.004	4.997	(0.574)	207689	57.1507	572(R)	
	104 Methylcyclohexane	83	9.487	9.480	(1.088)	377827	55.6025	556(R)	
M	153 Total Alkylbenzenes	100				7959659	391.565	3920(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1657.D
Date : 26-JUN-2015 19:10
Client ID: RE103D1-GW-062215MS
Sample Info: WG165523-6,SI4462
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1658.D
Report Date: 06-Jul-2015 14:54

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062615.b\P1658.D
Lab Smp Id: WG165523-7 Client Smp ID: RE103D1-GW-062215MS
Inj Date : 26-JUN-2015 19:38 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165523-7,SI4462
Misc Info : WG165523,WG165276-4,SI4462-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062615.b\P826A09.m
Meth Date : 06-Jul-2015 14:48 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 23 QC Sample: MSD
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.186	2.187	(0.251)	201869	39.7875	398(R)	
2 Chloromethane	50	2.443	2.437	(0.280)	317176	43.7733	438(R)	
3 Vinyl chloride	62	2.515	2.516	(0.288)	229303	43.1407	431(R)	
4 Bromomethane	94	2.908	2.909	(0.333)	99663	36.4504	364(R)	
5 Chloroethane	64	3.065	3.067	(0.352)	175778	46.2102	462(R)	
6 Trichlorofluoromethane	101	3.230	3.231	(0.370)	321725	45.5261	455(R)	
7 Diethyl Ether	59	3.616	3.617	(0.415)	157789	36.3286	363(R)	
8 Tertiary-butyl alcohol	59	5.303	5.305	(0.608)	57905	159.327	1590(R)	
9 1,1-Dichloroethene	96	3.895	3.889	(0.447)	168219	44.0878	441(R)	
10 Carbon Disulfide	76	3.952	3.953	(0.453)	623285	44.5535	446(R)	
11 Freon-113	151	3.938	3.939	(0.452)	83259	34.2202	342(R)	
12 Iodomethane	142	4.109	4.111	(0.471)	118470	30.6208	306(R)	
13 Acrolein	56	4.367	4.368	(0.501)	174107	178.799	1790(R)	
14 Methylene Chloride	84	4.731	4.733	(0.543)	221935	42.4332	424(R)	
15 Acetone	43	4.810	4.804	(0.552)	73675	43.3671	434(R)	
16 Isobutyl Alcohol	43	8.964	8.966	(1.028)	111094	664.484	6640(R)	
17 trans-1,2-Dichloroethene	96	4.982	4.983	(0.571)	184702	45.4347	454(R)	
18 Allyl Chloride	41	4.567	4.568	(0.524)	247280	41.2410	412(R)	
19 Methyl tert-butyl ether	73	5.153	5.147	(0.591)	1017031	79.9021	799(R)	
20 Acetonitrile	39	5.597	5.598	(0.642)	53626	378.852	3790(R)	
21 Di-isopropyl ether	45	5.833	5.827	(0.669)	581802	36.7319	367(R)	
22 Chloroprene	53	6.033	6.027	(0.692)	303291	39.5429	395(R)	
23 Propionitrile	54	8.621	8.622	(0.989)	269208	395.574	3960(R)	
24 Methacrylonitrile	41	8.650	8.651	(0.992)	1169886	423.779	4240(R)	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1658.D
Report Date: 06-Jul-2015 14:54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.083	6.084	(0.697)	361729	45.8104	458(R)	
	26 Acrylonitrile	52	6.190	6.191	(0.710)	322966	195.901	1960(R)	
	27 Ethyl tertiary-butyl ether	59	6.540	6.535	(0.750)	484646	34.9430	349(R)	
	28 Vinyl Acetate	43	6.569	6.570	(0.686)	503788	44.6208	446(R)	
	29 cis-1,2-Dichloroethene	96	7.084	7.085	(0.812)	198270	39.8646	399(R)	
M	30 1,2-Dichloroethylene (total)	96				382972	85.2992	853(R)	
	31 Methyl Methacrylate	41	10.709	10.710	(1.118)	162694	40.4129	404(R)	
	32 2,2-Dichloropropane	77	7.277	7.278	(0.834)	215873	37.8789	379(R)	
	33 Bromochloromethane	128	7.441	7.435	(0.853)	82318	42.5796	426(R)	
	34 Chloroform	83	7.584	7.578	(0.870)	353410	43.8021	438(R)	
	35 Carbon Tetrachloride	117	7.799	7.800	(0.814)	236266	49.3484	493(R)	
	36 Tetrahydrofuran	42	7.849	7.843	(0.900)	58648	44.2526	442(R)	
$	37 Dibromofluoromethane	113	7.899	7.900	(0.906)	182589	45.4318	45.4	
	38 1,1,1-Trichloroethane	97	7.920	7.922	(0.908)	309822	46.2916	463(R)	
	39 1,1-Dichloropropene	75	8.135	8.135	(0.849)	267836	45.7533	458(R)	
	40 2-Butanone	43	8.121	8.115	(0.931)	89966	42.6570	426(R)	
	41 Benzene	78	8.557	8.558	(0.893)	738354	43.0918	431(R)	
*	42 Pentafluorobenzene	168	8.721	8.715	(1.000)	371555	50.0000		
	43 Cyclohexane	56	7.427	7.428	(0.852)	295949	40.7838	408(R)	
	44 Ethyl Methacrylate	69	10.709	10.710	(1.118)	117686	34.6608	347(R)	
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.007)	268975	47.6562	47.6	
	46 Tertiary-amyl methyl ether	73	8.764	8.765	(1.005)	382176	33.4108	334(R)	
	47 1,2-Dichloroethane	62	8.900	8.894	(0.929)	299690	47.4610	475(R)	
	48 Trichloroethene	95	9.508	9.509	(0.993)	529099	121.421	1210(R)	
*	49 1,4-Difluorobenzene	114	9.579	9.573	(1.000)	680024	50.0000		
	50 Dibromomethane	93	10.173	10.174	(1.062)	112396	43.8203	438(R)	
	51 1,2-Dichloropropane	63	10.337	10.338	(1.079)	185768	42.8387	428(R)	
	52 Bromodichloromethane	83	10.444	10.446	(1.090)	275712	44.7300	447(R)	
	53 cis-1,3-dichloropropene	75	11.417	11.418	(1.192)	297785	42.8803	429(R)	
	54 1,4-Dioxane	88	10.759	10.753	(1.123)	36106	611.926	6120(R)	
$	55 Toluene-D8	98	11.688	11.690	(1.220)	721469	47.9596	48.0	
	57 Toluene	92	11.767	11.768	(1.228)	470929	41.8035	418(R)	
	58 4-methyl-2-pentanone	43	12.361	12.355	(1.290)	190120	46.3617	464(R)	
	59 Tetrachloroethene	164	12.332	12.333	(0.885)	131830	42.0072	420(R)	
	60 trans-1,3-Dichloropropene	75	12.403	12.405	(1.295)	283827	47.9075	479(R)	
	61 1,1,2-Trichloroethane	83	12.639	12.634	(1.319)	144450	42.5722	426(R)	
	62 Dibromochloromethane	129	12.890	12.891	(0.925)	199532	44.9591	450(R)	
	63 1,3-Dichloropropane	76	13.033	13.027	(0.935)	321321	41.2159	412(R)	
	64 1,2-Dibromoethane	107	13.219	13.220	(1.380)	173592	44.2702	443(R)	
	65 2-Hexanone	43	13.562	13.563	(0.973)	128911	43.7675	438(R)	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	632024	50.0000		
	67 Chlorobenzene	112	13.955	13.956	(1.002)	508070	41.2404	412(R)	
	152 1-Chlorohexane	91	13.934	13.935	(1.000)	240392	35.0581	350(R)	
	68 Ethylbenzene	106	13.998	13.999	(1.005)	270164	40.1428	401(R)	
	69 1,1,1,2-Tetrachloroethane	131	14.048	14.049	(1.008)	184526	44.4454	444(R)	
M	70 Xylenes (total)	106				1024381	126.841	1270(R)	
	71 m+p-Xylenes	106	14.198	14.199	(1.019)	682193	84.4751	845(R)	
	72 o-Xylene	106	14.763	14.764	(1.060)	342188	42.3657	424(R)	
	73 Styrene	104	14.835	14.836	(1.065)	591399	42.7943	428(R)	
	74 Bromoform	173	14.863	14.872	(1.067)	121977	45.4711	455(R)	
	75 Isopropylbenzene	105	15.171	15.172	(0.896)	892474	41.4305	414(R)	
$	76 P-Bromofluorobenzene	95	15.535	15.537	(1.622)	322904	47.1883	47.2	
	77 cis-1,4-Dichloro-2-Butene	53	15.628	15.622	(0.924)	81771	34.7114	347(R)	
	78 trans-1,4-Dichloro-2-Butene	53	16.021	16.023	(0.947)	63474	36.7668	368(R)	

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1658.D
Report Date: 06-Jul-2015 14:54

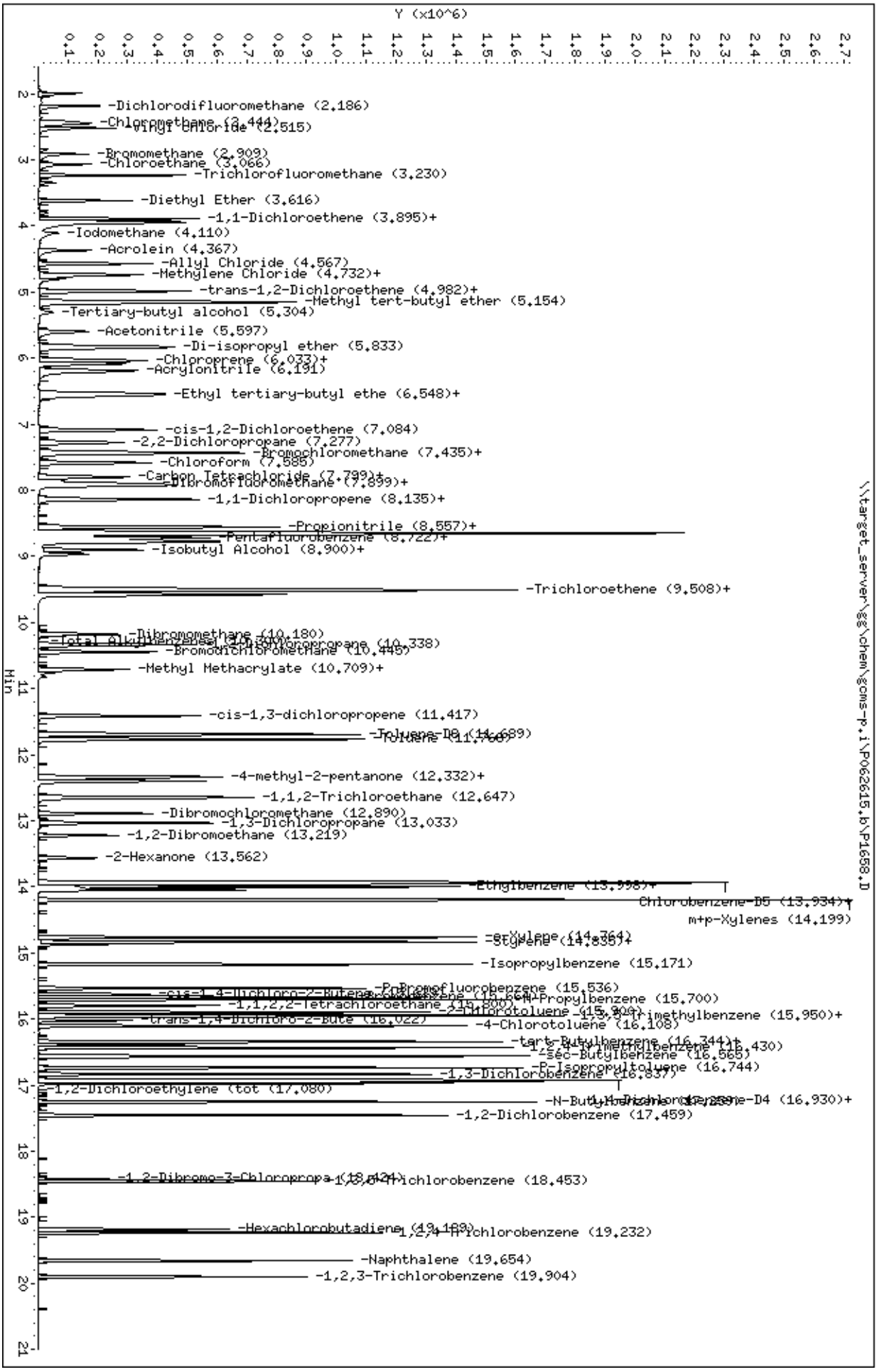
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	79 Bromobenzene	156	15.664	15.665	(0.926)	214996	39.3864	394(R)	
	80 N-Propylbenzene	91	15.700	15.701	(0.928)	1085149	42.3407	423(R)	
	81 1,1,2,2-Tetrachloroethane	83	15.800	15.801	(0.934)	258622	40.3959	404(R)	
	82 1,3,5-Trimethylbenzene	105	15.950	15.951	(0.943)	774729	40.8317	408(R)	
	83 2-Chlorotoluene	91	15.900	15.894	(0.940)	677678	41.0624	411(R)	
	84 1,2,3-Trichloropropane	75	15.964	15.966	(0.943)	209283	42.6449	426(R)	
	85 4-Chlorotoluene	91	16.107	16.109	(0.952)	715886	41.3012	413(R)	
	86 tert-Butylbenzene	119	16.343	16.344	(0.966)	749241	41.2557	412(R)	
	87 Pentachloroethane	117	16.372	16.373	(0.967)	134190	35.7454	357(R)	
	88 1,2,4-Trimethylbenzene	105	16.436	16.430	(0.971)	806581	42.6313	426(R)	
	89 P-Isopropyltoluene	119	16.744	16.745	(0.989)	838047	40.9297	409(R)	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	436723	39.4887	395(R)	
*	91 1,4-Dichlorobenzene-D4	152	16.922	16.924	(1.000)	358078	50.0000		
	92 1,4-Dichlorobenzene	146	16.944	16.945	(1.001)	446778	39.5646	396(R)	
	93 N-Butylbenzene	91	17.258	17.260	(1.020)	804106	41.6260	416(R)	
	94 sec-Butylbenzene	105	16.565	16.565	(0.979)	974020	41.5945	416(R)	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.032)	436034	41.1021	411(R)	
	96 1,2-Dibromo-3-Chloropropane	75	18.424	18.425	(1.089)	52646	45.5418	455(R)	
	97 1,3,5-Trichlorobenzene	180	18.460	18.461	(1.091)	224354	30.6829	307(R)	
	98 Hexachlorobutadiene	225	19.189	19.190	(1.134)	90472	38.5077	385(R)	
	99 1,2,4-Trichlorobenzene	180	19.232	19.233	(1.136)	270421	39.6436	396(R)	
	100 1,2,3-Trimethylbenzene	105	16.972	16.974	(1.003)	680489	34.5339	345(R)	
	101 Naphthalene	128	19.654	19.655	(1.161)	711192	43.7986	438(R)	
	102 1,2,3-Trichlorobenzene	180	19.904	19.905	(1.176)	227746	43.0704	431(R)	
	103 Methyl Acetate	43	5.003	4.997	(0.574)	140487	37.3424	373(R)	
	104 Methylcyclohexane	83	9.486	9.480	(1.088)	229521	32.6273	326(R)	
M	153 Total Alkylbenzenes	100				6031873	291.210	2910(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-p.i\P062615.b\P1658.D
Date : 26-JUN-2015 19:38
Client ID: RE103D1-GW-062215MS
Sample Info: WG165523-7,SI4462
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18



Logbooks and Supporting Documents

GCMS-P INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 06-22-15/ 9:27

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB ⑩	PB295	1	-1	VOAIBFBAQ							Y	EME		
VSTD050P22A ④	P1533	1	1	P826A09							Y			
020 ③	34	1	2								Y			
005 ②	35	1	3								Y			
001 ①	36	1	4								Y			
200 ⑥	37	1	5								Y			
100 ⑤	38	1	6								Y			
LCSA[VB165276] ⑧	39	1	7								Y			IND ⑦
VBLK A	40	1	8								N			
B	41	1	9								N			
C ⑨	42	1	10								Y			
SI4364-2 A	43	1	11		X		X				Y		<2	
SI4339-2 A	44	1	12					X			Y		<2	
SI4191-12RA B	45	1	13								Y		<2	
-2RA E	46	1	14								Y		<2	
-3RA D	47	1	15								Y		<2	
-6RA B	48	1	16								Y		<2	
-9RA B	49	1	17								Y		<2	
SI4336-4 A	50	1	18				X				Y		<2	
SI4339-1 A	51	1	19					X			Y		<2	
SI4364-1 A	52	1	20				X				Y		<2	19:12
Rinse	53	1	21								N			
Rinse	54	1	22								N			
Rinse	55	1	23								N			
Rinse	56	1	24								N			

06/23/15 RFL

STANDARD	CODE
BFB	V9872
CAL. STD.	V9906, V9907
LCS/MS MIX	V9900
EXTRAS MIX	V9908

STANDARD	CODE
IS MIX	V9901
SS MIX	V9885

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS546

VOA-024 – Revision 1 – 05/16/2014

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06/25/15 / 9:09

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50ng BFB ③	PB298	1	-1	V0ABFBAQ							Y	EME		
VSTD050P25A	P1609	1	1	P826A09							N			Bad Cal mix
↓ B ④	10	1	2								Y			New Cal mix
LCS A [VG165462] ①	11	1	3								Y			
VBLK A	12	1	4								N			
B	13	1	5		06/25/15						N			
↓ C ②	14	1	6		~~X~~		~~1312~~				Y			$MeCl_2$ < ½ PQL
SPLP-BLK DL ⑤ A	15	5	7		X		1312		X		Y			8→40mL $MeCl_2$ < ½ PQL
SI4281-2DL A	16	5	8								Y			
-4DL A	17	5	9								Y			
-6DL A	18	5	10								Y			
↓ -9DL A	19	5	11								Y			
SI4462-13 A	20	1	12								Y		<2	
SI4459-2 A	21	1	13								Y		<2	
↓ -1 A	22	1	14				06/27/15				Y		<2	
SI4462-1 A	23	1	15								Y		<2	
-2 A	24	1	16								Y		<2	
-3 A	25	1	17								Y		<2	
-4 A	26	1	18								Y		<2	DL 1:10
-5 A	27	1	19								Y		<2	DL 1:10
-6 A	28	1	20								Y		<2	DL 1:10
-7 A	29	1	21								Y		<2	DL 1:10
-11 A	30	1	22								Y		<2	hit not CO, very large
↓ -12 A	31	1	23								Y		<2	20.40 DL 1:20
Rinse	32	1	24								N			
Rinse	33	1	25								N			

STANDARD	CODE
BFB	V9879
CAL. STD. V9910	~~V9906~~ V9907
LCS/MS MIX	V9900
EXTRAS MIX	V9908

STANDARD	CODE
IS MIX	V9901
SS MIX	V9885

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS546

GCMS-P INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 06-26-15 / 8:34

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB ③	PB299	1	-1	VOABTBAQ							Y	EME		
VSTD050R26A ④	P1636	1	1	P826A09							Y			
LCS A [V-0165523] ①	37	1	2								Y			
VBLK A	38	1	3								N			
B	39	1	4								N			
C ②	40	1	5								Y			
SI4496-1 A	41	1	6		X				X		Y		<2	
-2 A	42	1	7								Y		<2	
-3 A	43	1	8								Y		<2	DL 1:10
Rinse	44	1	9								N			
Rinse	45	1	10								N			
SPLP-BLK ⑤ A	46	5	11		X		1312		X		Y			8→40ml
SI4463-2DL A	47	5	12								Y			
-4DL A	48	5	13								Y			
-6DL A	49	5	14								Y			
SI4492-1 A	50	1	15								Y		<2	
-2 A	51	1	16								Y		<2	
SI4462-4DL B	52	10	17								Y		<2	4→40ml
-5DL B	53	10	18								Y		<2	
-6DL B	54	10	19								Y		<2	
-7DL B	55	10	20								Y		<2	
-12DL B	56	20	21								Y		<2	2→40ml
-4MS ⑥ B	57	10	22								Y		<2	4→40ml
-4MSD ⑦ B	58	10	23								Y		<2	19:38
Rinse	59	1	24								N			
Rinse	60	1	25								N			

STANDARD	CODE
BFB	V9879
CAL. STD.	V9910, V9907
LCS/MS MIX	V9900
EXTRAS MIX	V9908

STANDARD	CODE
IS MIX	V9901
SS MIX	V9885

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS546

VOA-024 – Revision 1 – 05/16/2014

SIM SEMIVOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI4462

Client Sample ID	Lab Sample ID	Col. ID	14D	#
RE104D3-GW-062315	SI4462-1		64.8	
RE105D1-GW-062315	SI4462-11DL		60.6	
RE105D2-GW-062315	SI4462-12		74.3	
RE104D2-GW-062315	SI4462-2		73.5	
RE104D1-GW-062315	SI4462-3		60.4	
RE103D1-GW-062215	SI4462-4DL		68.5	
RE103D2-GW-062215	SI4462-5		56.1	
RE103D3-GW-062215	SI4462-6		56.7	
DUPLICATE-GW-062215	SI4462-7		64.4	
Method Blank Sample	WG165450-1		67.6	
Laboratory Control S	WG165450-2		52.9	
Matrix Spike	WG165450-3		47.2	
Matrix Spike Duplica	WG165450-4		59.4	

		QC Limits
14D	1,4-DIOXANE-D8	30-150

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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sales@katahdinlab.com

Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SI4462
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG165450-1
Lab File ID : G5107.D
Date Extracted : 25-JUN-15
Instrument ID : GCMS-G
Date Analyzed : 30-JUN-15
Matrix : AQ
Time Analyzed : 12:35

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG165450-2	G5108.D	06/30/15	13:02
RE104D3-GW-062315	SI4462-1	G5109.D	06/30/15	13:30
RE104D2-GW-062315	SI4462-2	G5110.D	06/30/15	13:57
RE104D1-GW-062315	SI4462-3	G5111.D	06/30/15	14:25
Matrix Spike	WG165450-3	G5113.D	06/30/15	15:21
Matrix Spike Duplica	WG165450-4	G5114.D	06/30/15	15:49
RE103D2-GW-062215	SI4462-5	G5115.D	06/30/15	16:17
RE103D3-GW-062215	SI4462-6	G5116.D	06/30/15	16:45
DUPLICATE-GW-062215	SI4462-7	G5117.D	06/30/15	17:13
RE105D2-GW-062315	SI4462-12	G5119.D	06/30/15	18:08
RE103D1-GW-062215	SI4462-4DL	G5123.D	06/30/15	19:57
RE105D1-GW-062315	SI4462-11DL	G5128.D	07/01/15	13:08

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : GD633.D
Instrument ID : GCMS-G

SDG : SI4462
Date Analyzed : 30-JUN-15
Time Analyzed : 08:44

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	48.3		
68	Less than 2.0% of mass 69	0.6	1.45	1
69	Less than 100.0% of mass 198	43.0		
70	Less than 2.0% of mass 69	0.3	0.63	1
127	40.0 - 60.0% of mass 198	57.1		
197	Less than 1.0% of mass 198	0.3		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	21.9		
365	1.0 - 100.0% of mass 198	2.6		
441	0.0 - 100.0% of mass 443	11.6	71.85	2
442	40.0 - 100.0% of mass 198	82.1		
443	17.0 - 23.0% of mass 442	16.1	19.65	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG165655-4	G5100.D	06/30/15	09:03
Initial Calibration	WG165655-2	G5101.D	06/30/15	09:30
Initial Calibration	WG165655-3	G5102.D	06/30/15	09:57
Initial Calibration	WG165655-5	G5103.D	06/30/15	10:24
Initial Calibration	WG165655-6	G5104.D	06/30/15	10:52
Initial Calibration	WG165655-7	G5105.D	06/30/15	11:19
Independent Source	WG165655-8	G5106.D	06/30/15	11:47
Method Blank Sample	WG165450-1	G5107.D	06/30/15	12:35
Laboratory Control S	WG165450-2	G5108.D	06/30/15	13:02
RE104D3-GW-062315	SI4462-1	G5109.D	06/30/15	13:30
RE104D2-GW-062315	SI4462-2	G5110.D	06/30/15	13:57
RE104D1-GW-062315	SI4462-3	G5111.D	06/30/15	14:25
Matrix Spike	WG165450-3	G5113.D	06/30/15	15:21
Matrix Spike Duplica	WG165450-4	G5114.D	06/30/15	15:49
RE103D2-GW-062215	SI4462-5	G5115.D	06/30/15	16:17
RE103D3-GW-062215	SI4462-6	G5116.D	06/30/15	16:45
DUPLICATE-GW-062215	SI4462-7	G5117.D	06/30/15	17:13
RE105D2-GW-062315	SI4462-12	G5119.D	06/30/15	18:08
RE103D1-GW-062215	SI4462-4DL	G5123.D	06/30/15	19:57

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : GD634.D
Instrument ID : GCMS-G

SDG : SI4462
Date Analyzed : 01-JUL-15
Time Analyzed : 10:43

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	45.5		
68	Less than 2.0% of mass 69	0.6	1.38	1
69	Less than 100.0% of mass 198	41.7		
70	Less than 2.0% of mass 69	0.2	0.54	1
127	40.0 - 60.0% of mass 198	55.8		
197	Less than 1.0% of mass 198	0.4		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.9		
275	10.0 - 30.0% of mass 198	22.2		
365	1.0 - 100.0% of mass 198	3.0		
441	0.0 - 100.0% of mass 443	13.7	73.05	2
442	40.0 - 100.0% of mass 198	96.2		
443	17.0 - 23.0% of mass 442	18.7	19.44	3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG165763-2	G5124.D	07/01/15	11:01
RE105D1-GW-062315	SI4462-11DL	G5128.D	07/01/15	13:08

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG165655-4
Lab File ID : G5100.D

SDG: SI4462
Analytical Date: 06/30/15 09:03
Instrument ID: GCMS-G

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	45492		7.14	
	Upper Limit	90984		7.64	
	Lower Limit	22746		6.64	
Client Sample ID	Lab Sample ID				
Method Blank Sample	WG165450-1	52324		7.14	
Laboratory Control S	WG165450-2	64450		7.14	
RE104D3-GW-062315	SI4462-1	54524		7.14	
RE104D2-GW-062315	SI4462-2	51974		7.14	
RE104D1-GW-062315	SI4462-3	53213		7.14	
Matrix Spike	WG165450-3	63481		7.14	
Matrix Spike Duplica	WG165450-4	63584		7.14	
RE103D2-GW-062215	SI4462-5	54704		7.14	
RE103D3-GW-062215	SI4462-6	56649		7.14	
DUPLICATE-GW-062	SI4462-7	55175		7.14	
RE105D2-GW-062315	SI4462-12	49260		7.14	
RE103D1-GW-062215	SI4462-4DL	54932		7.14	
Continuing Calibrati	WG165763-2	42501		7.16	
RE105D1-GW-062315	SI4462-11DL	50936		7.14	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as “U” MDL have a 50% rate for false negatives compared to those results reported as “U” PQL/LOQ or “U” LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-1
Client ID: RE104D3-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5109.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane	U	0.17	ug/L	1	.25	0.24	0.082	0.17
1,4-Dioxane-D8		64.8	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5109.D
Report Date: 10-Jul-2015 07:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5109.D
Lab Smp Id: SI4462-1 Client Smp ID: RE104D3-GW-062315
Inj Date : 30-JUN-2015 13:30 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-1
Misc Info : WG165655,WG165450,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

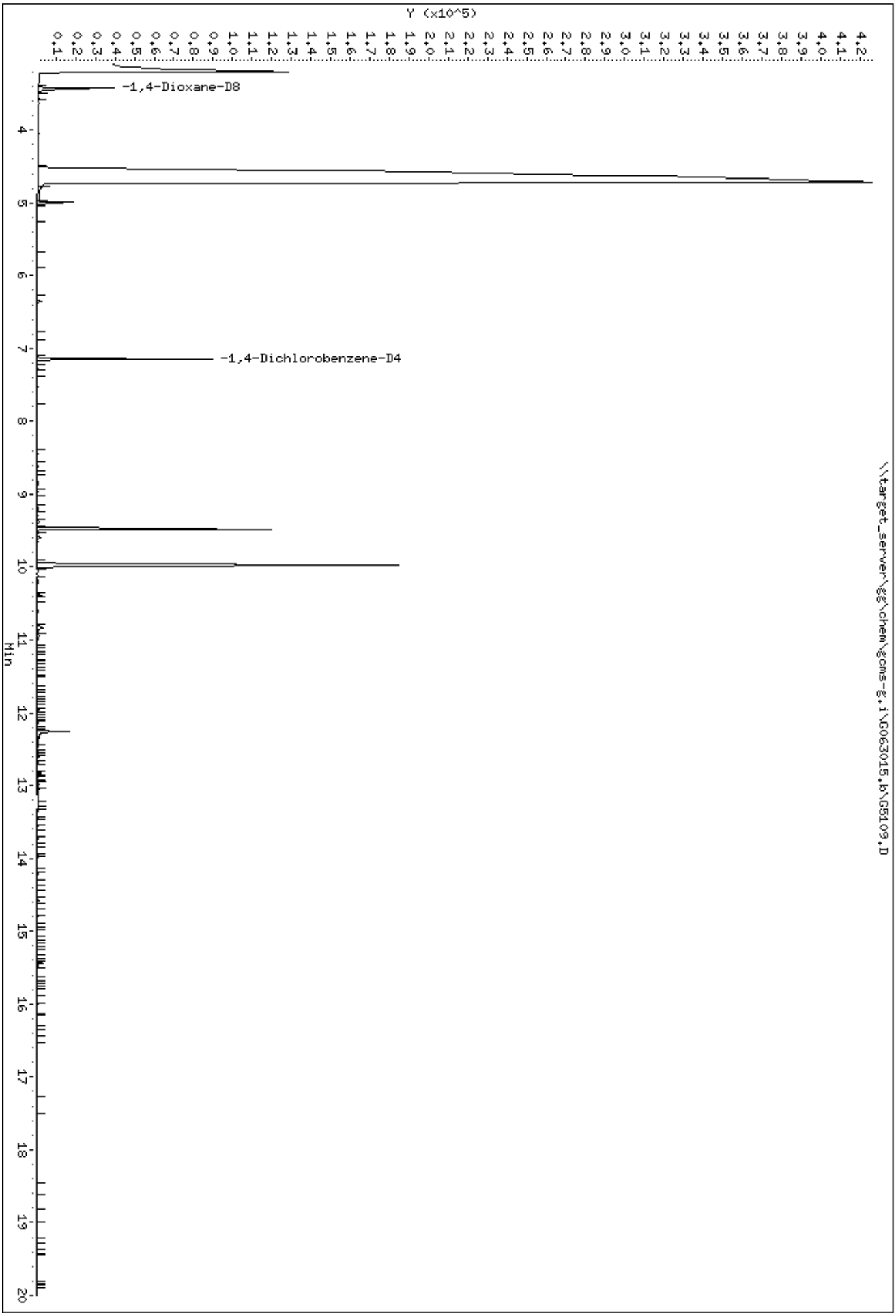
Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.040	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 2 1,4-Dioxane-D8	96	3.427	3.369	(0.480)	30469	1.29634	1.25	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	54524	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5109.D
Date : 30-JUN-2015 13:30
Client ID: RE104D3-GW-062315
Sample Info: SI4462-1
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5109.D
Y (x10^5)
-1,4-Dioxane-D8
-1,4-Dichlorobenzene-D4
Min

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-2
Client ID: RE104D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5110.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane	J	0.15	ug/L	1	.25	0.24	0.080	0.17
1,4-Dioxane-D8		73.5	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5110.D
Report Date: 10-Jul-2015 07:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5110.D
Lab Smp Id: SI4462-2 Client Smp ID: RE104D2-GW-062315
Inj Date : 30-JUN-2015 13:57 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-2
Misc Info : WG165655,WG165450,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

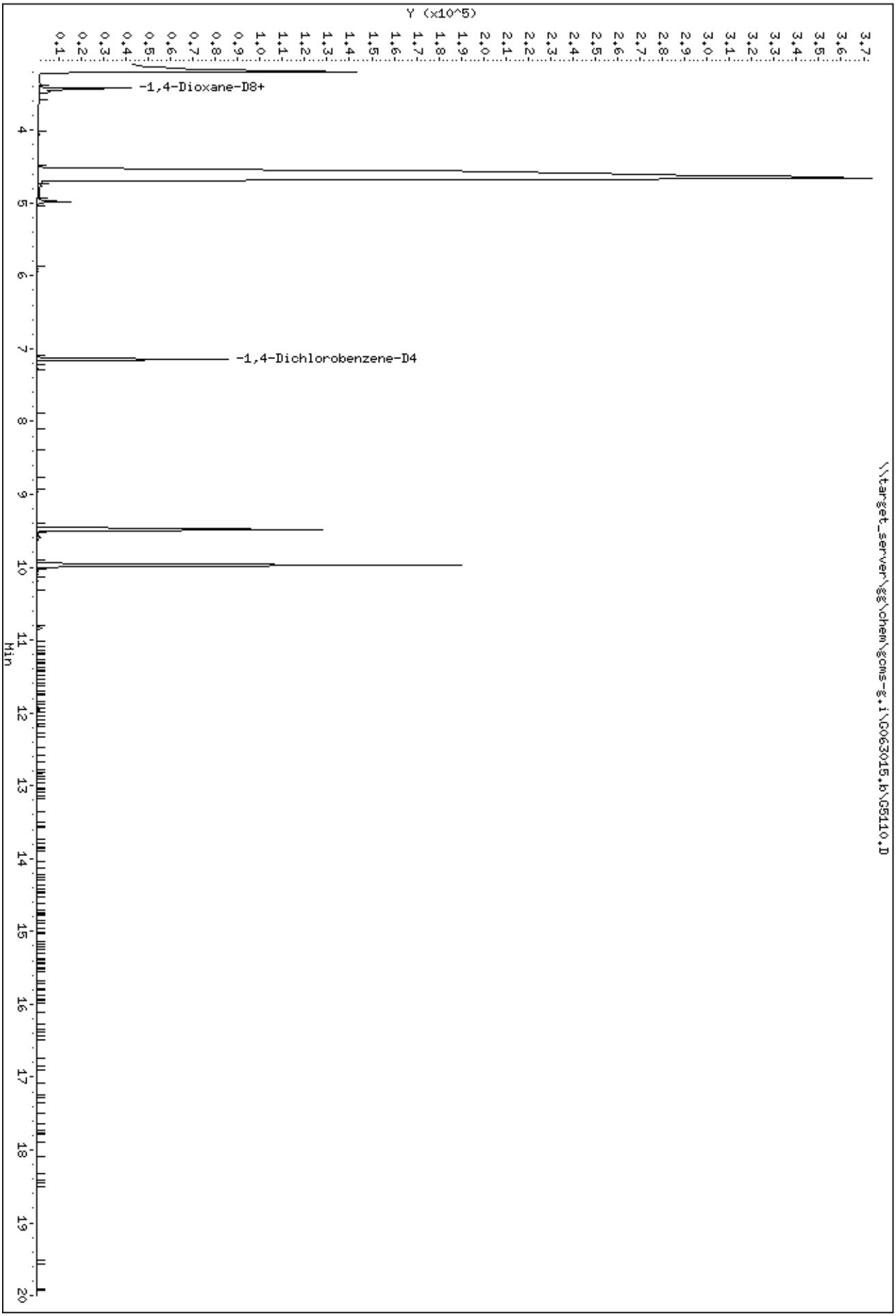
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.484	3.412	(0.488)	4093	0.16152	0.152(aM)	M6
$ 2 1,4-Dioxane-D8	96	3.426	3.369	(0.480)	32939	1.47019	1.39	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	51974	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

WAS
7:28 am, Jul 10, 2015


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5110.D
Date : 30-JUN-2015 13:57
Client ID: RE104D2-GW-062315
Sample Info: SI4462-2
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5110.D
Y (x10^5)
-1,4-Dioxane-D8+
-1,4-Dichlorobenzene-D4
Min

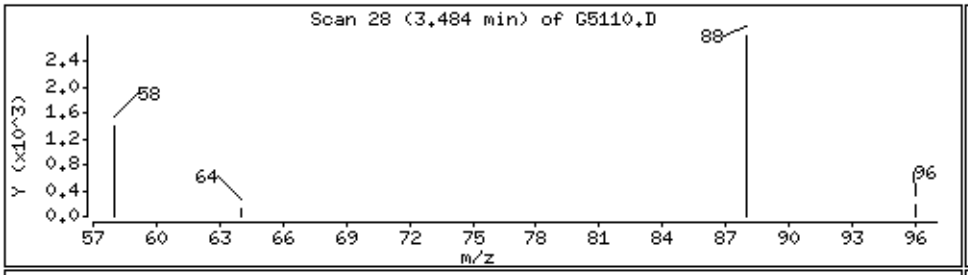
Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5110.D

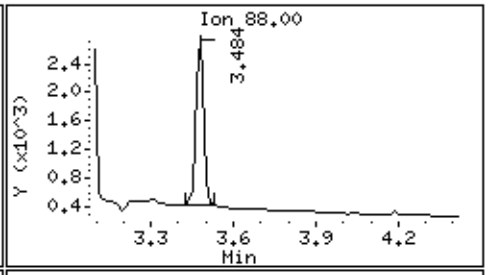
Date : 30-JUN-2015 13:57

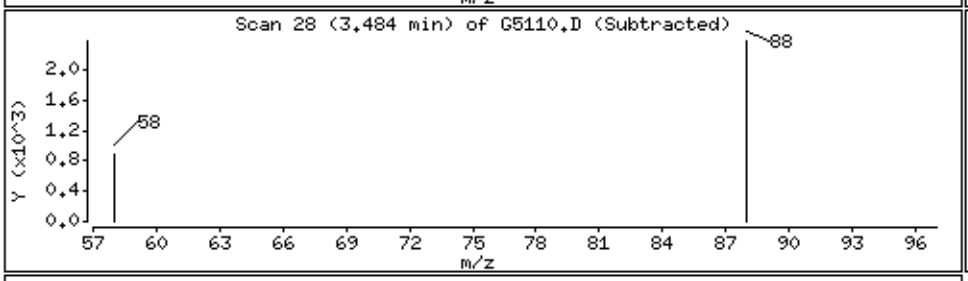
Client ID: RE104D2-GW-062315 Instrument: gcms-g.i

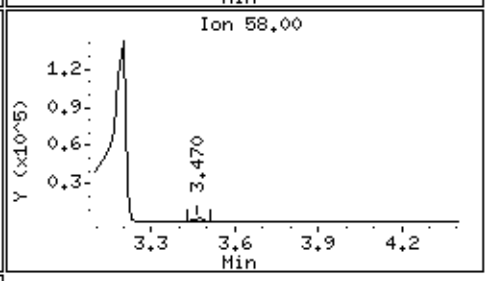
Sample Info: SI4462-2

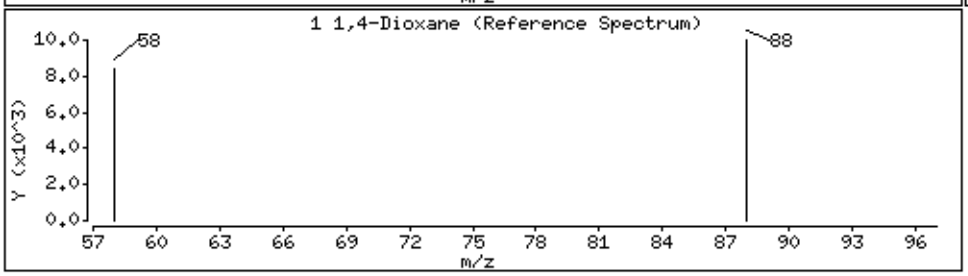
1 1,4-Dioxane Concentration: 0.152 ug/L







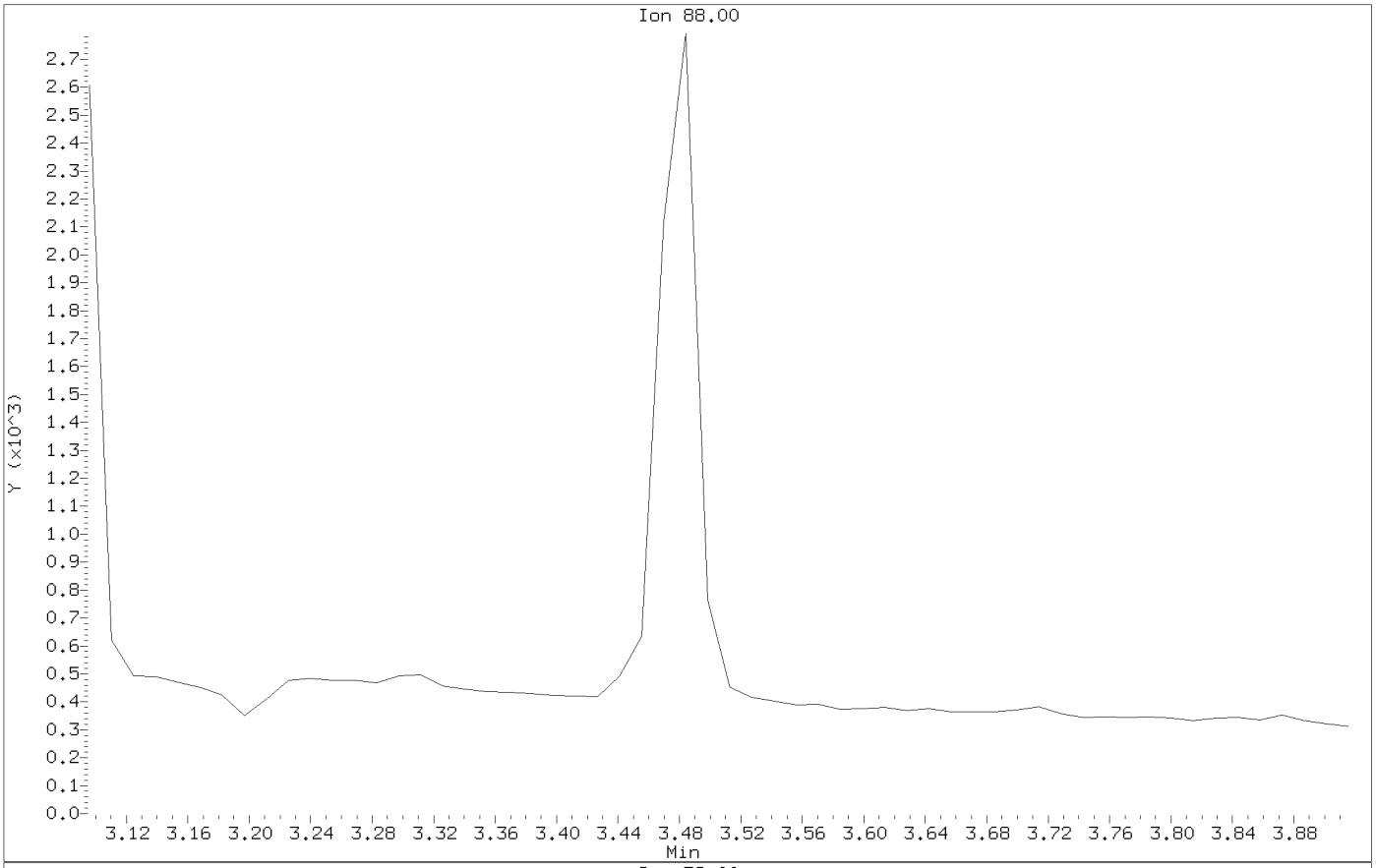


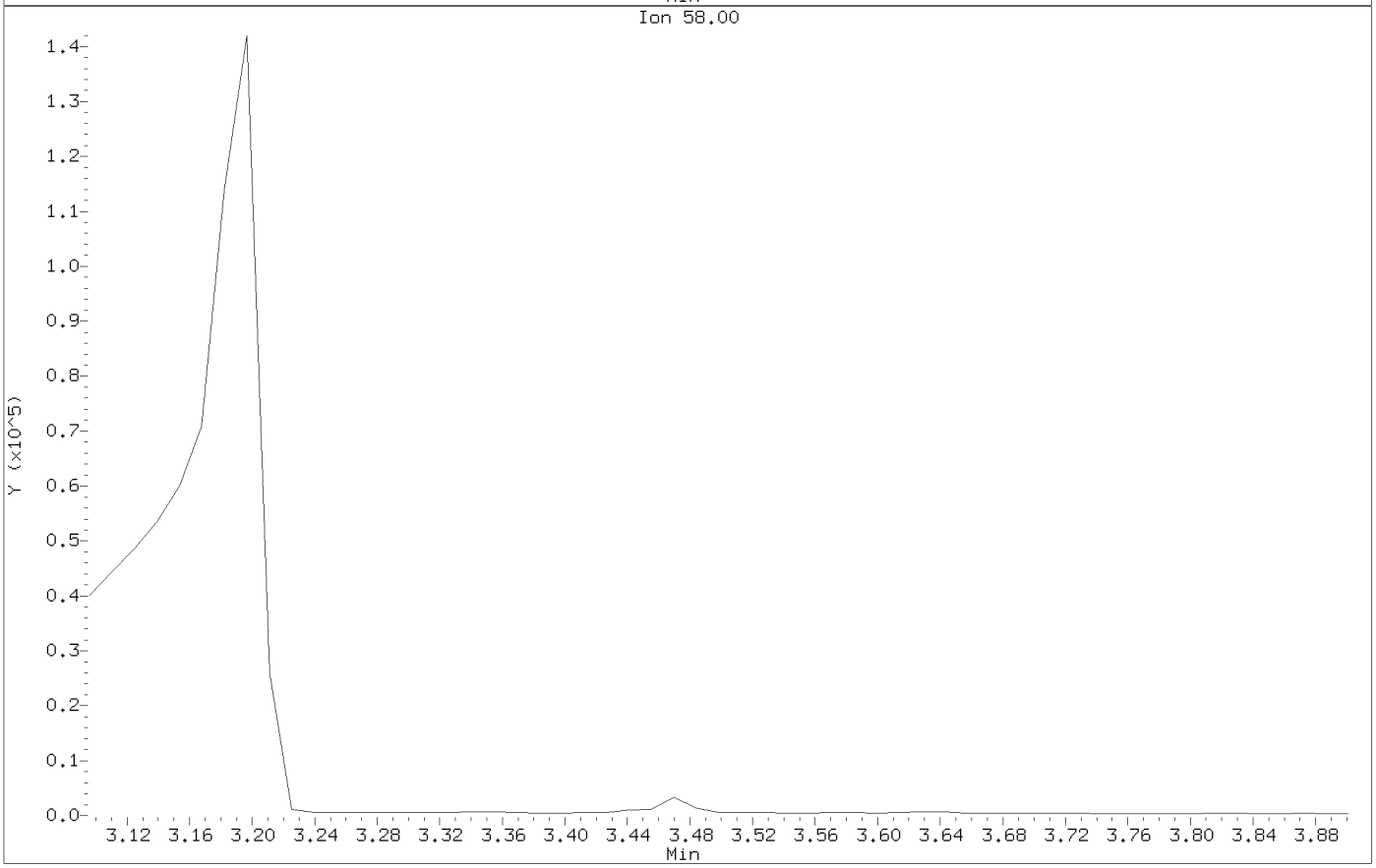


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5110.D
Injection Date: 30-JUN-2015 13:57
Instrument: gcms-g.i
Client Sample ID: RE104D2-GW-062315

Compound: 1,4-Dioxane
CAS Number: 123-91-1

BEFORE MANUAL INTEGRATION

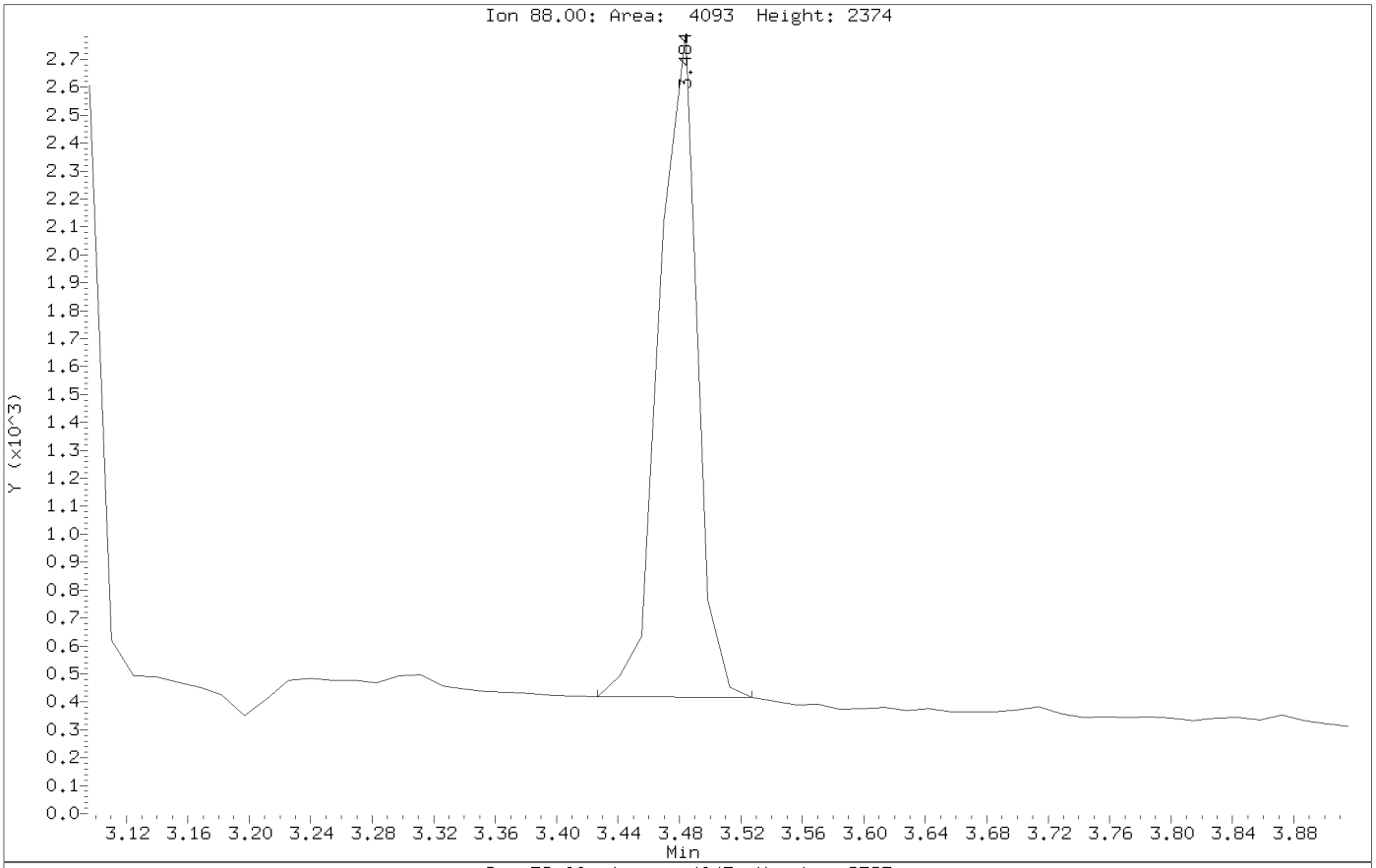


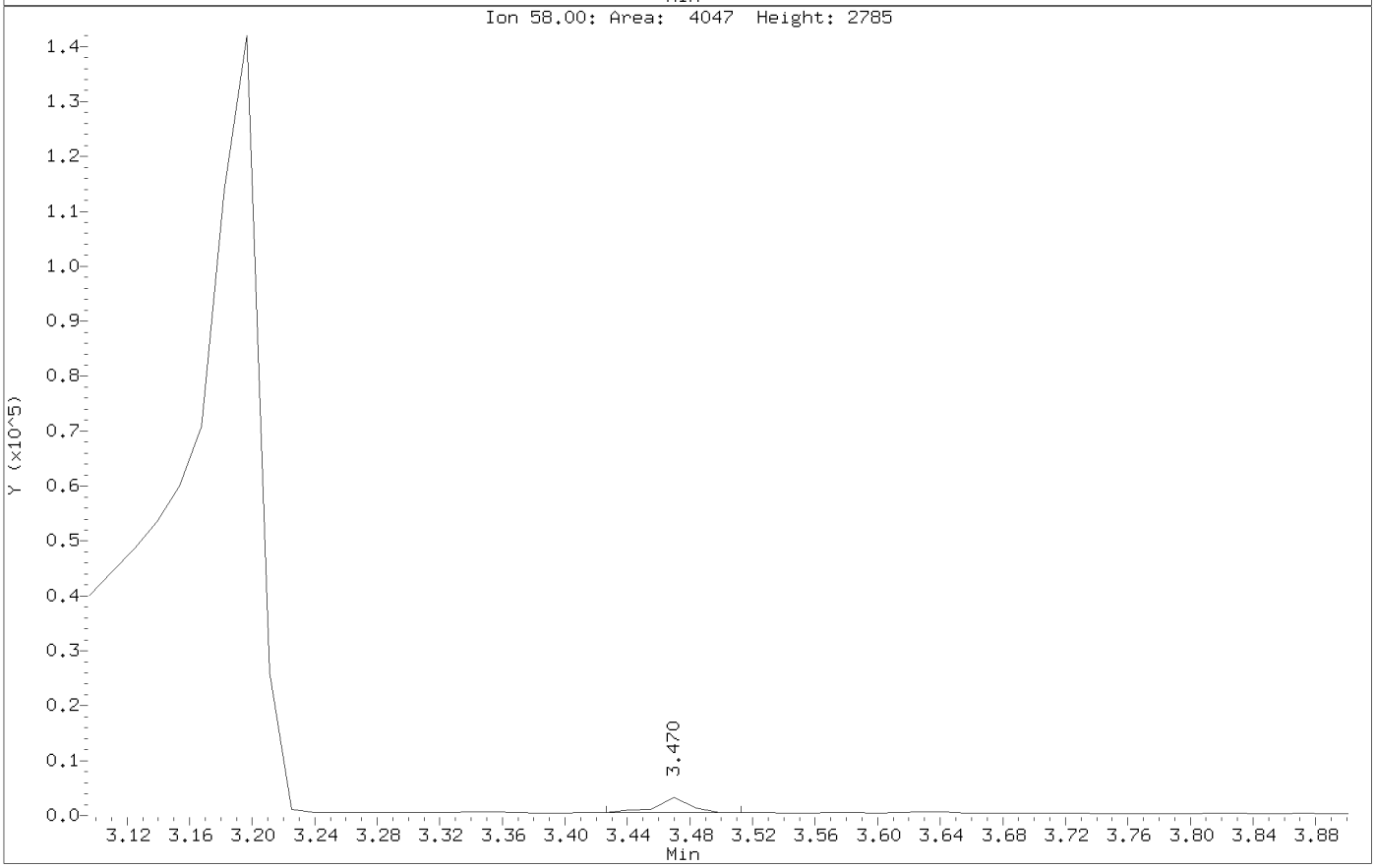


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5110.D
Injection Date: 30-JUN-2015 13:57
Instrument: gcms-g.i
Client Sample ID: RE104D2-GW-062315

Compound: 1,4-Dioxane
CAS Number: 123-91-1

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-3
Client ID: RE104D1-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5111.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane		8.7	ug/L	1	.25	0.24	0.083	0.18
1,4-Dioxane-D8		60.4	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5111.D
Report Date: 10-Jul-2015 07:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5111.D
Lab Smp Id: SI4462-3 Client Smp ID: RE104D1-GW-062315
Inj Date : 30-JUN-2015 14:25 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-3
Misc Info : WG165655,WG165450,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

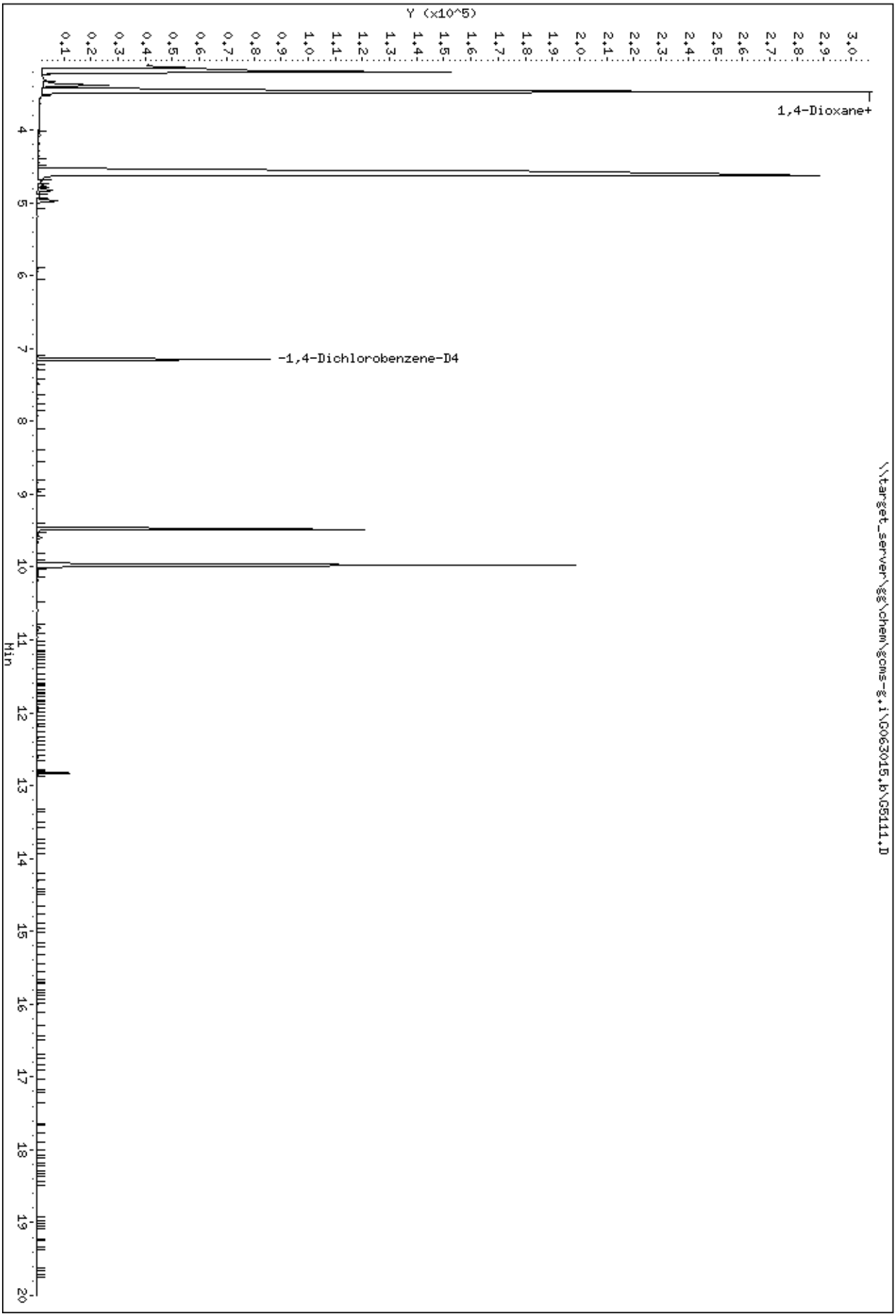
Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.020	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
	1 1,4-Dioxane	88	3.471	3.412	(0.486)	229438	8.84354	8.67	
$	2 1,4-Dioxane-D8	96	3.442	3.369	(0.482)	27688	1.20704	1.18(QH)	
*	3 1,4-Dichlorobenzene-D4	150	7.141	7.140	(1.000)	53213	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5111.D
Date : 30-JUN-2015 14:25
Client ID: RE104D1-GW-062315
Sample Info: SI4462-3
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5111.D
Y (x10^5)
1,4-Dioxane+
-1,4-Dichlorobenzene-D4
Min

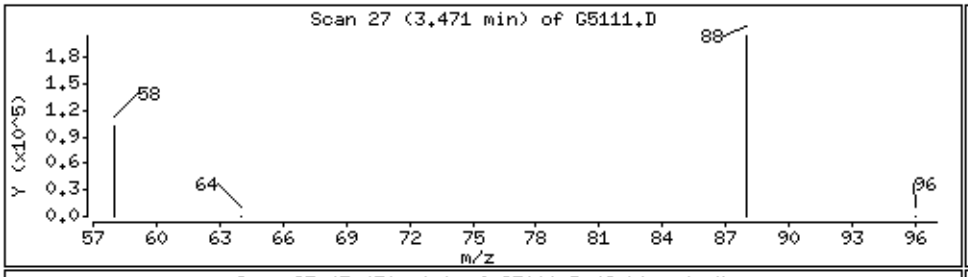
Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5111.D

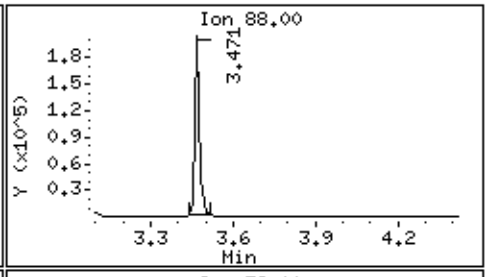
Date : 30-JUN-2015 14:25

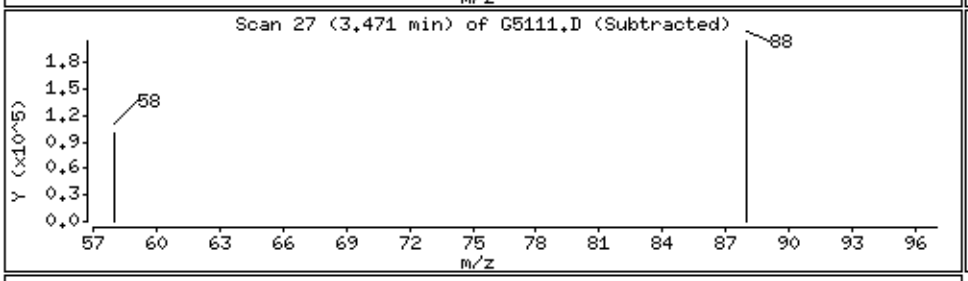
Client ID: RE104D1-GW-062315 Instrument: gcms-g.i

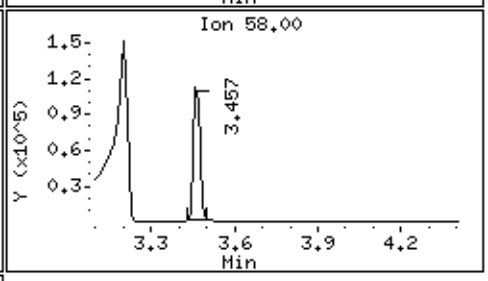
Sample Info: SI4462-3

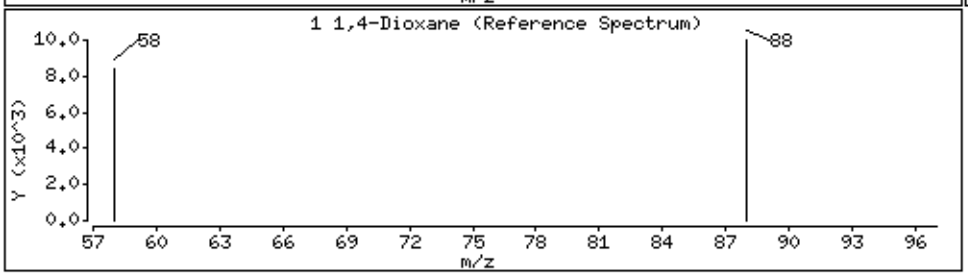
1 1,4-Dioxane Concentration: 8.67 ug/L











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-4DL
Client ID: RE103D1-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5123.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane	MM	16	ug/L	3	.25	0.71	0.24	0.51
1,4-Dioxane-D8		68.5	%					

600 Technology Way
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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5123.D
Report Date: 10-Jul-2015 07:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5123.D
Lab Smp Id: SI4462-4DL Client Smp ID: RE103D1-GW-062215
Inj Date : 30-JUN-2015 19:57 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-4DL
Misc Info : WG165655,WG165450,WG165655-4
Comment   :
Method   : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 25
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

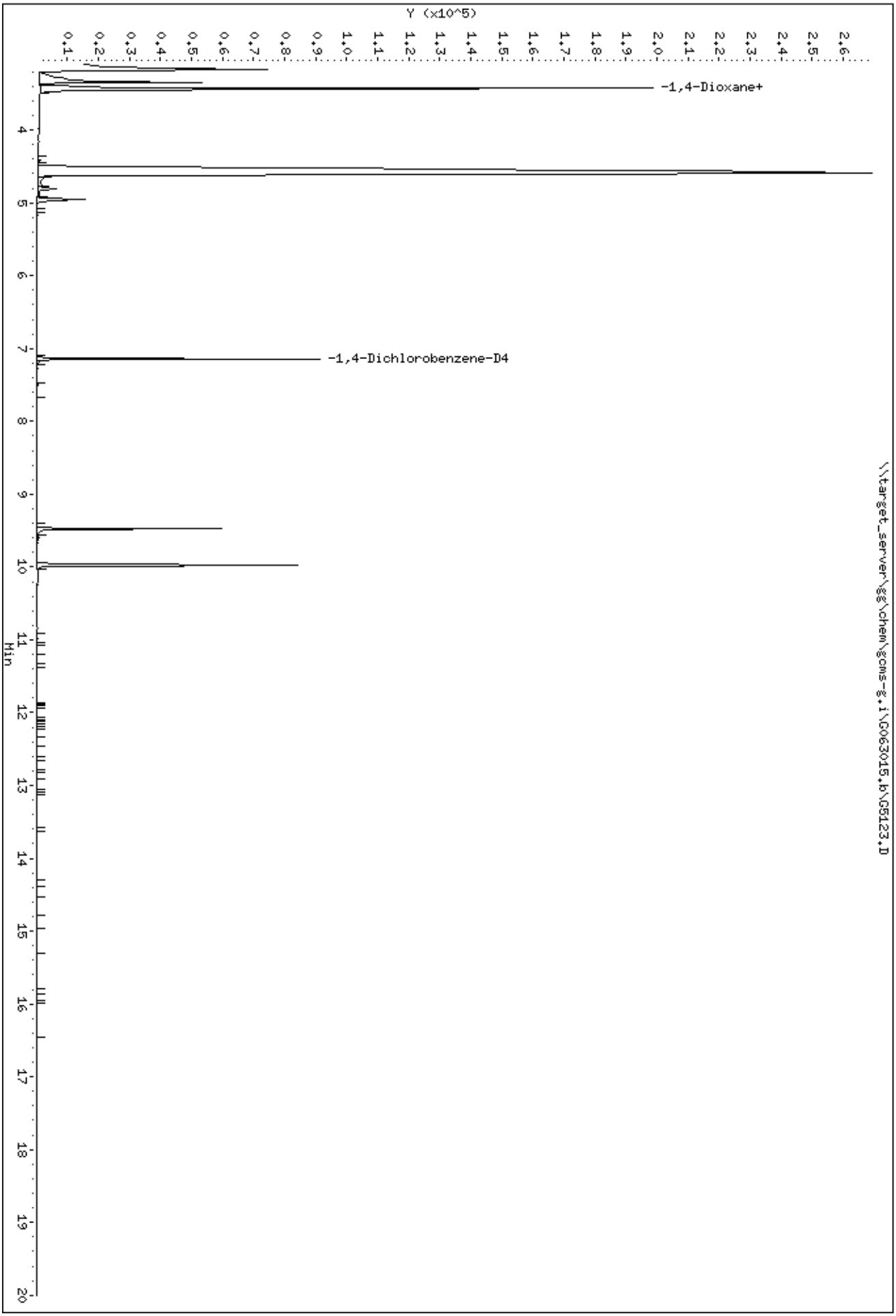
Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	3.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.427	3.412	(0.480)	154685	5.77566	16.3	
$ 2 1,4-Dioxane-D8	96	3.398	3.369	(0.476)	10815	0.45672	1.29(H)	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	54932	0.80000	(a)	

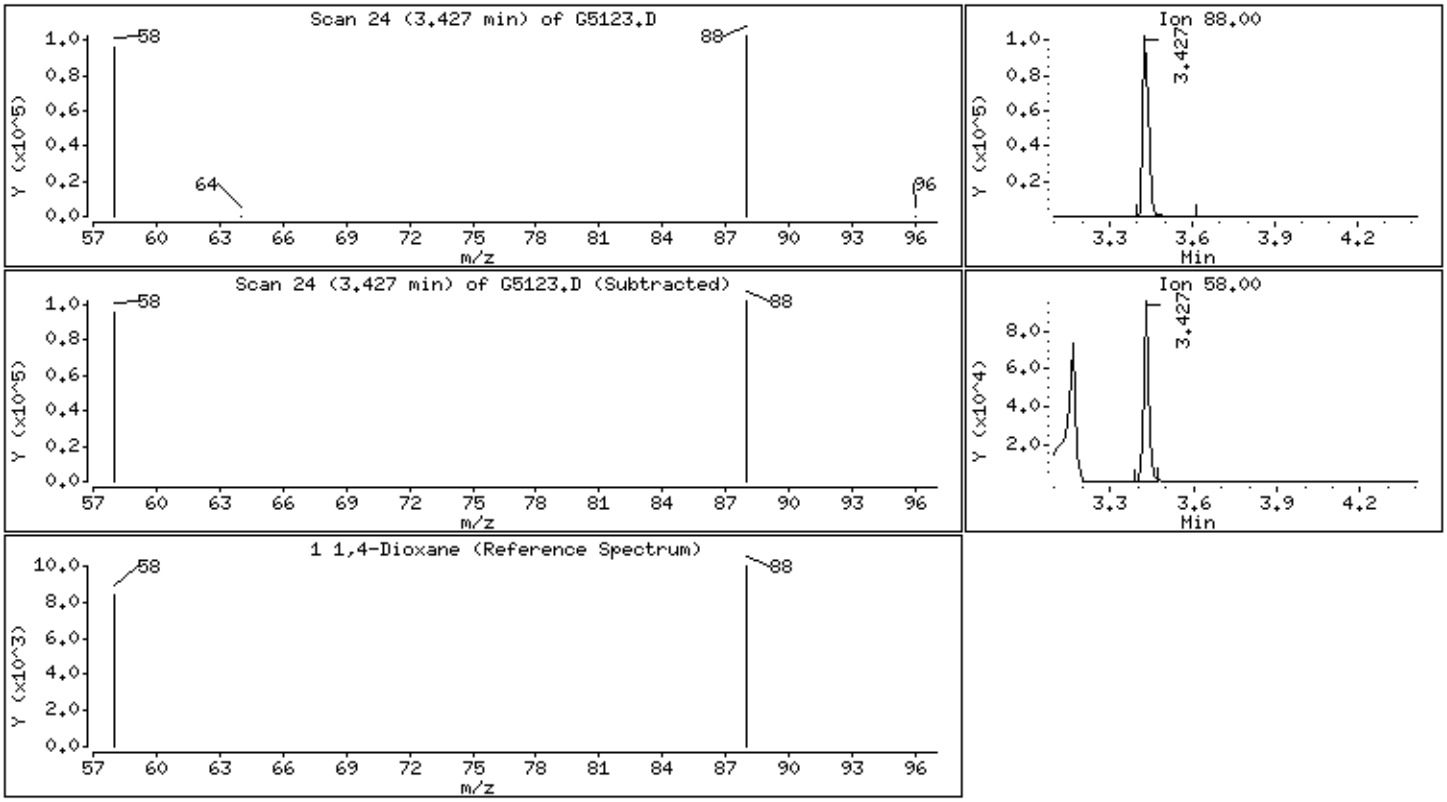
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5123.D
Date : 30-JUN-2015 19:57
Client ID: RE103D1-GW-062215
Sample Info: SI4462-4DL
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5123.D
Y (x10^5)
-1,4-Dioxane+
-1,4-Dichlorobenzene-D4
Min

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5123.D
Date : 30-JUN-2015 19:57
Client ID: RE103D1-GW-062215 Instrument: gcms-g.i
Sample Info: SI4462-4DL

1 1,4-Dioxane Concentration: 16.3 ug/L



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-5
Client ID: RE103D2-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5115.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane		1.9	ug/L	1	.25	0.24	0.081	0.17
1,4-Dioxane-D8		56.1	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5115.D
Report Date: 10-Jul-2015 07:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5115.D
Lab Smp Id: SI4462-5 Client Smp ID: RE103D2-GW-062215
Inj Date : 30-JUN-2015 16:17 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-5
Misc Info : WG165655,WG165450,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

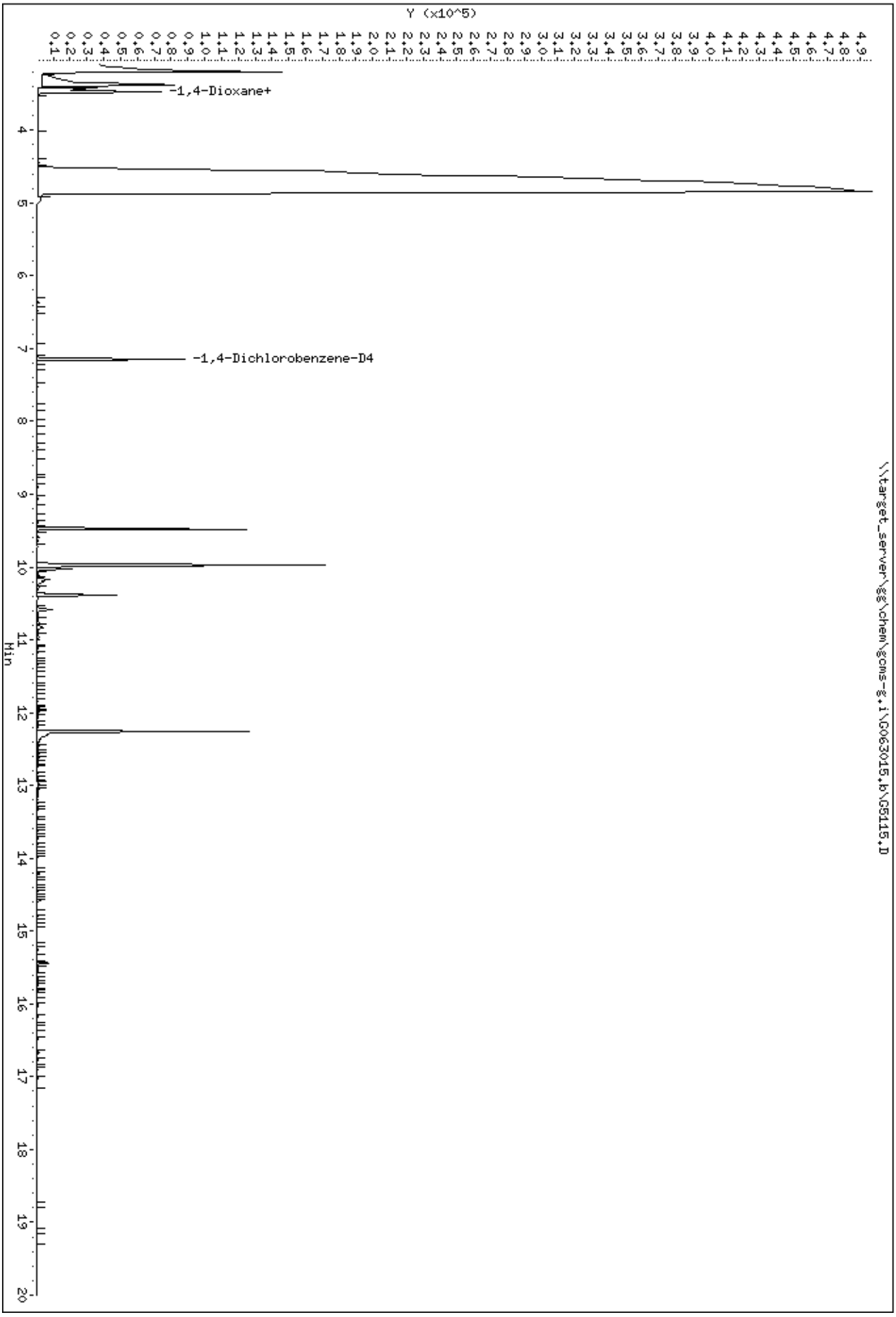
Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.469	3.412	(0.486)	54336	2.03726	1.94	
$ 2 1,4-Dioxane-D8	96	3.440	3.369	(0.482)	26444	1.12139	1.07(H)	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	54704	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.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Date : 30-JUN-2015 16:17
Client ID: RE103D2-GW-062215
Sample Info: SI4462-5
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5115.D
Y (x10^5)
-1,4-Dioxane+
-1,4-Dichlorobenzene-D4
Min

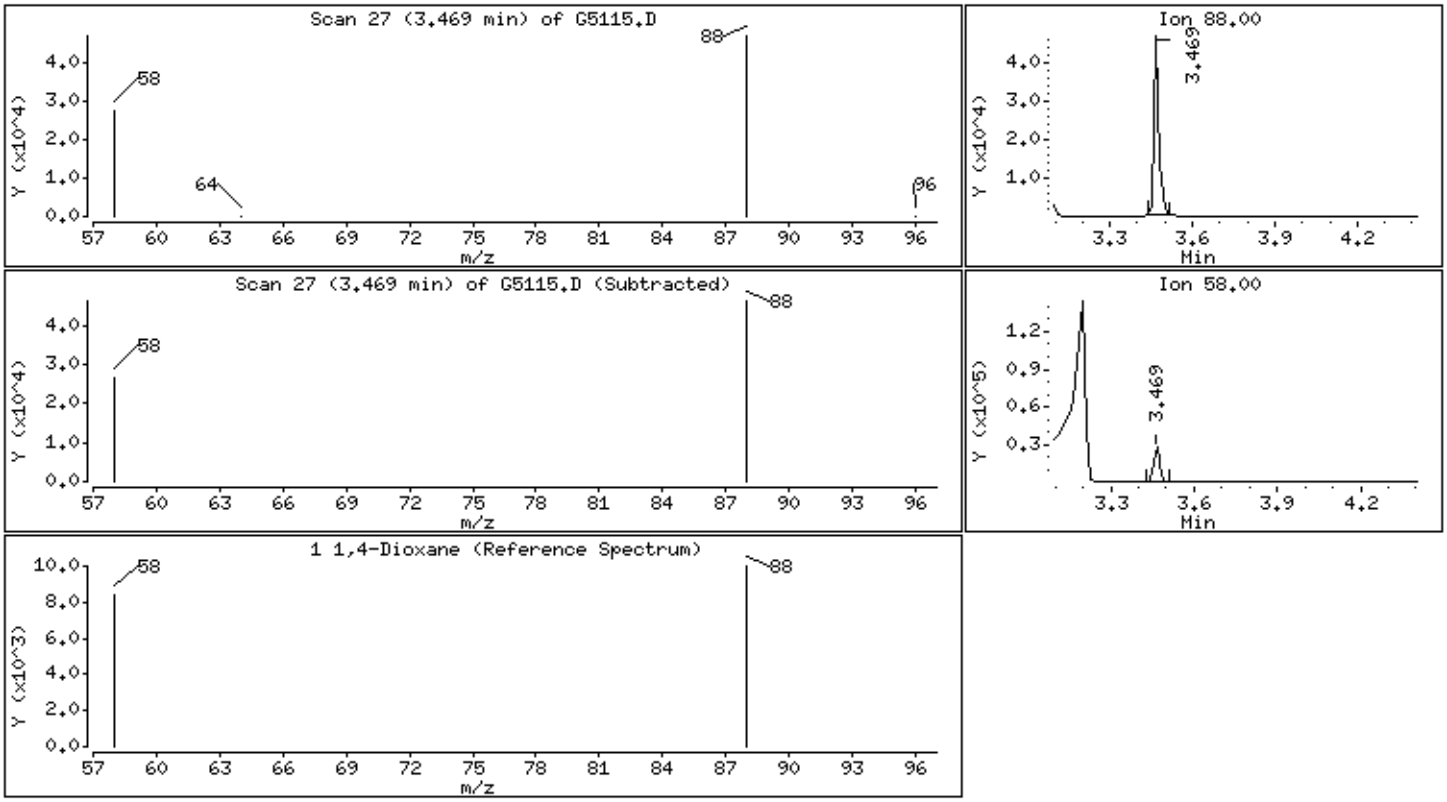
Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5115.D

Date : 30-JUN-2015 16:17

Client ID: RE103D2-GW-062215 Instrument: gcms-g.i

Sample Info: SI4462-5

1 1,4-Dioxane Concentration: 1.94 ug/L



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-6
Client ID: RE103D3-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5116.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane		0.86	ug/L	1	.25	0.24	0.081	0.17
1,4-Dioxane-D8		56.7	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5116.D
Report Date: 10-Jul-2015 07:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5116.D
Lab Smp Id: SI4462-6 Client Smp ID: RE103D3-GW-062215
Inj Date : 30-JUN-2015 16:45 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-6
Misc Info : WG165655,WG165450,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

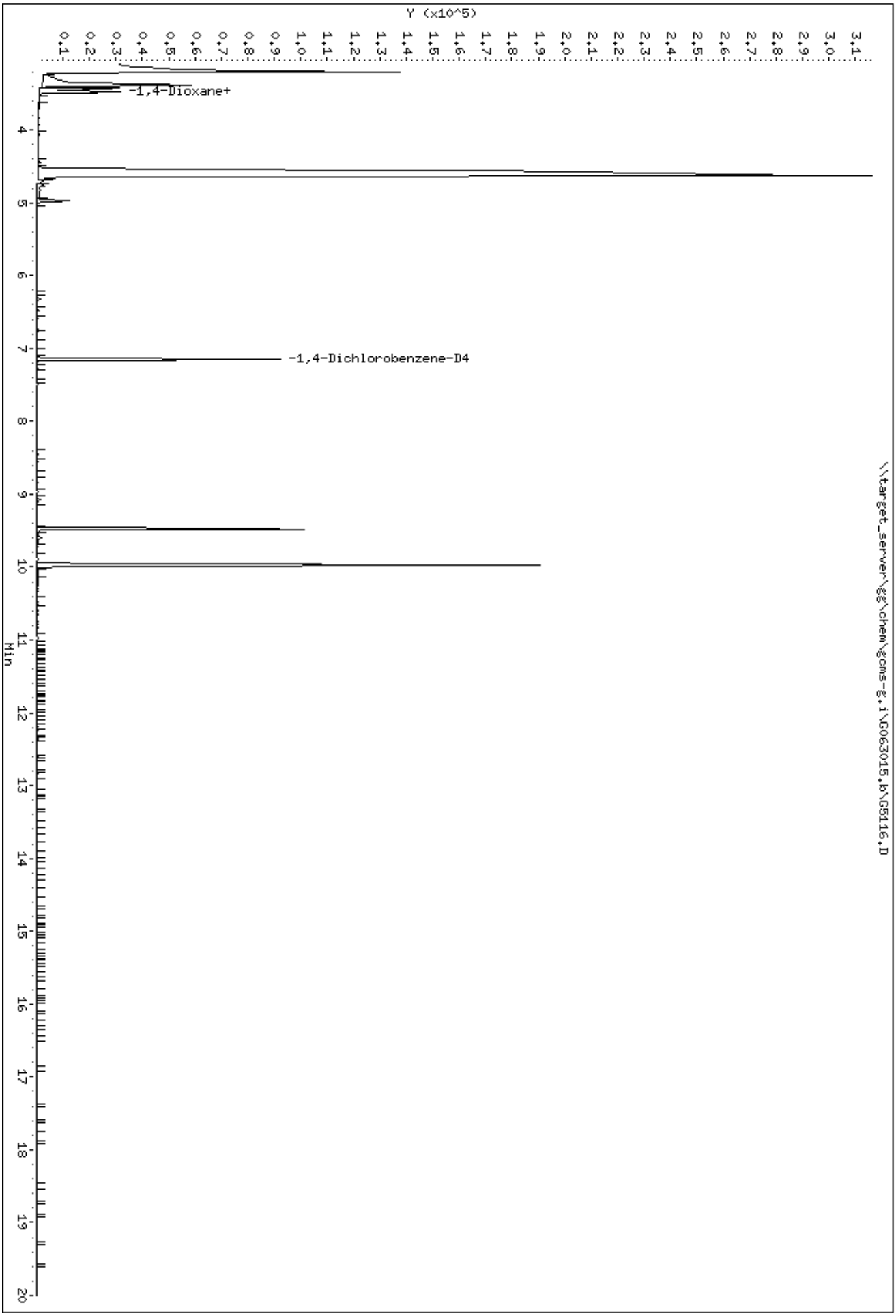
Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
	1 1,4-Dioxane	88	3.470	3.412	(0.486)	24997	0.90505	0.862	
$	2 1,4-Dioxane-D8	96	3.442	3.369	(0.482)	27680	1.13350	1.08(H)	
*	3 1,4-Dichlorobenzene-D4	150	7.141	7.140	(1.000)	56649	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.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Date : 30-JUN-2015 16:45
Client ID: RE103D3-GW-062215
Sample Info: SI4462-6
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5116.D
Y (x10^5)
-1,4-Dioxane+
-1,4-Dichlorobenzene-D4
Min

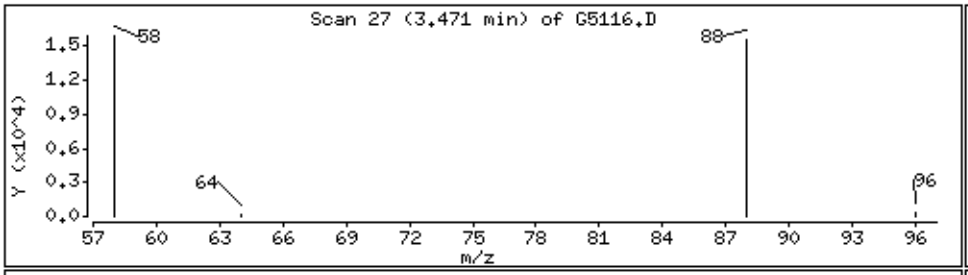
Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5116.D

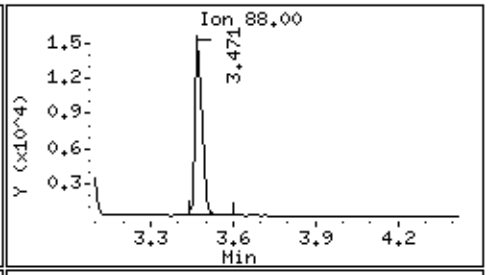
Date : 30-JUN-2015 16:45

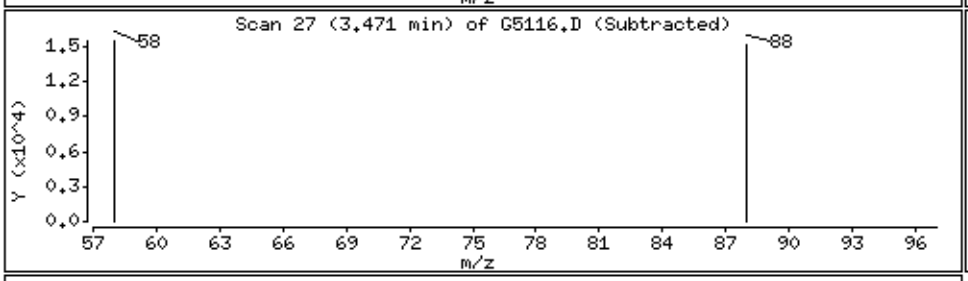
Client ID: RE103D3-GW-062215 Instrument: gcms-g.i

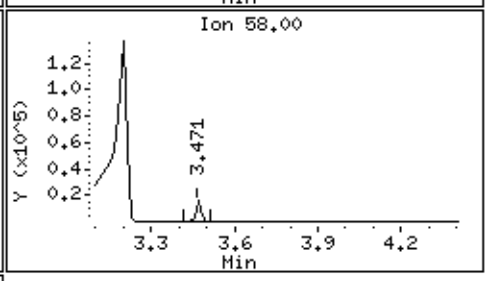
Sample Info: SI4462-6

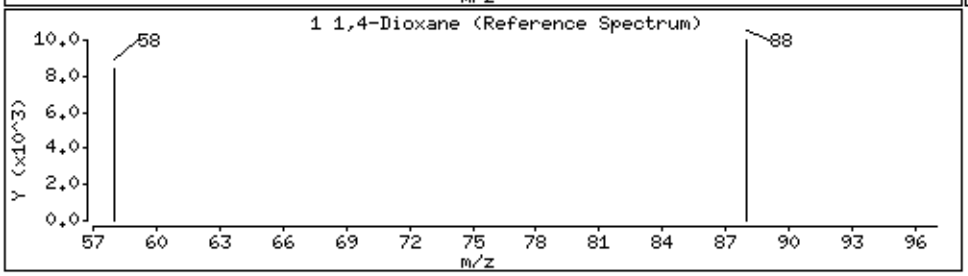
1 1,4-Dioxane Concentration: 0.862 ug/L











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-7
Client ID: DUPLICATE-GW-062215
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5117.D

Sample Date: 22-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane		2.4	ug/L	1	.25	0.24	0.080	0.17
1,4-Dioxane-D8		64.4	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5117.D
Report Date: 10-Jul-2015 07:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5117.D
Lab Smp Id: SI4462-7 Client Smp ID: DUPLICATE-GW-062215
Inj Date : 30-JUN-2015 17:13 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-7
Misc Info : WG165655,WG165450,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

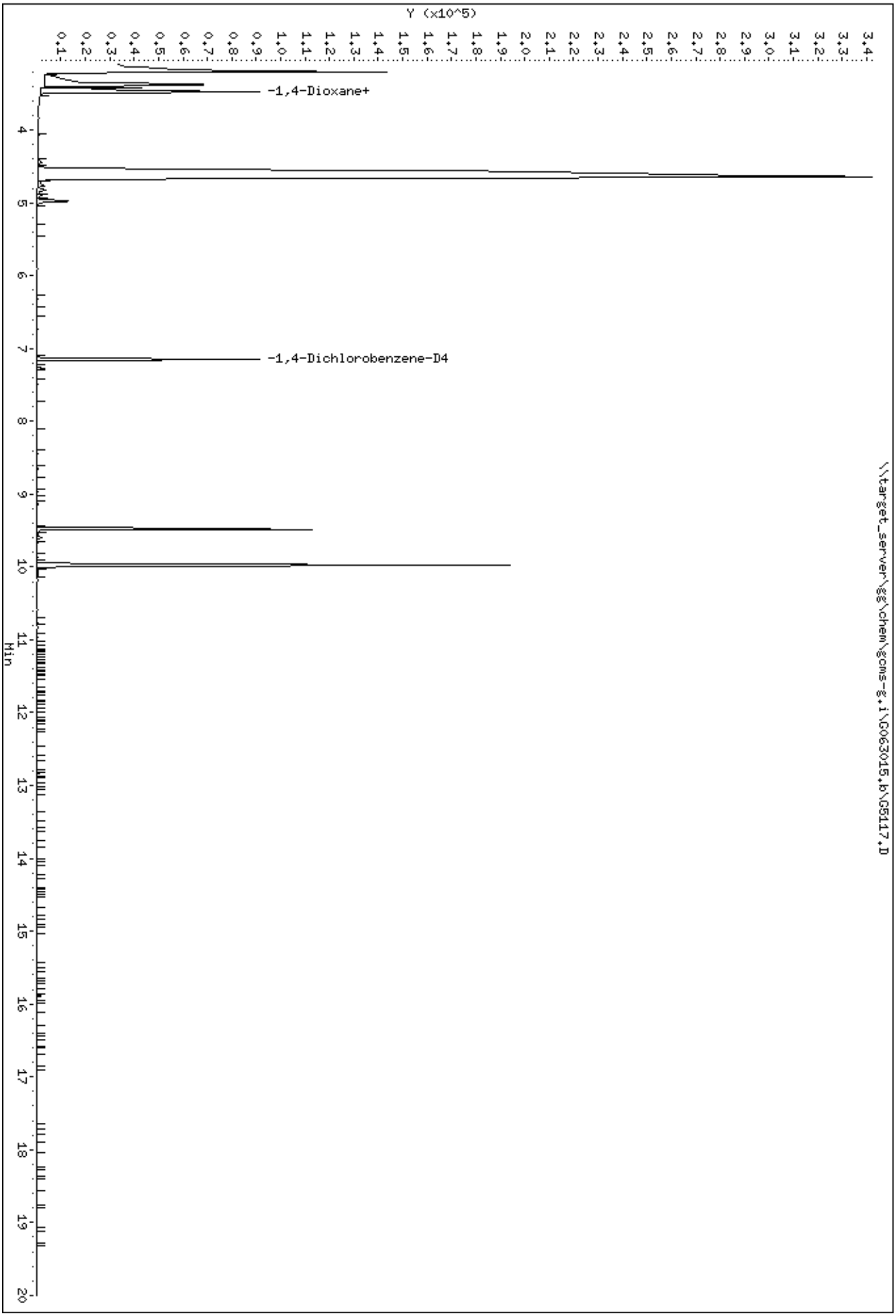
Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.470	3.412	(0.486)	69019	2.56569	2.42	
$ 2 1,4-Dioxane-D8	96	3.427	3.369	(0.480)	30637	1.28811	1.22(H)	
* 3 1,4-Dichlorobenzene-D4	150	7.141	7.140	(1.000)	55175	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5117.D
Date : 30-JUN-2015 17:13
Client ID: DUPLICATE-GW-062215
Sample Info: SI4462-7
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5117.D
Y (x10^5)
-1,4-Dioxane+
-1,4-Dichlorobenzene-D4
Min

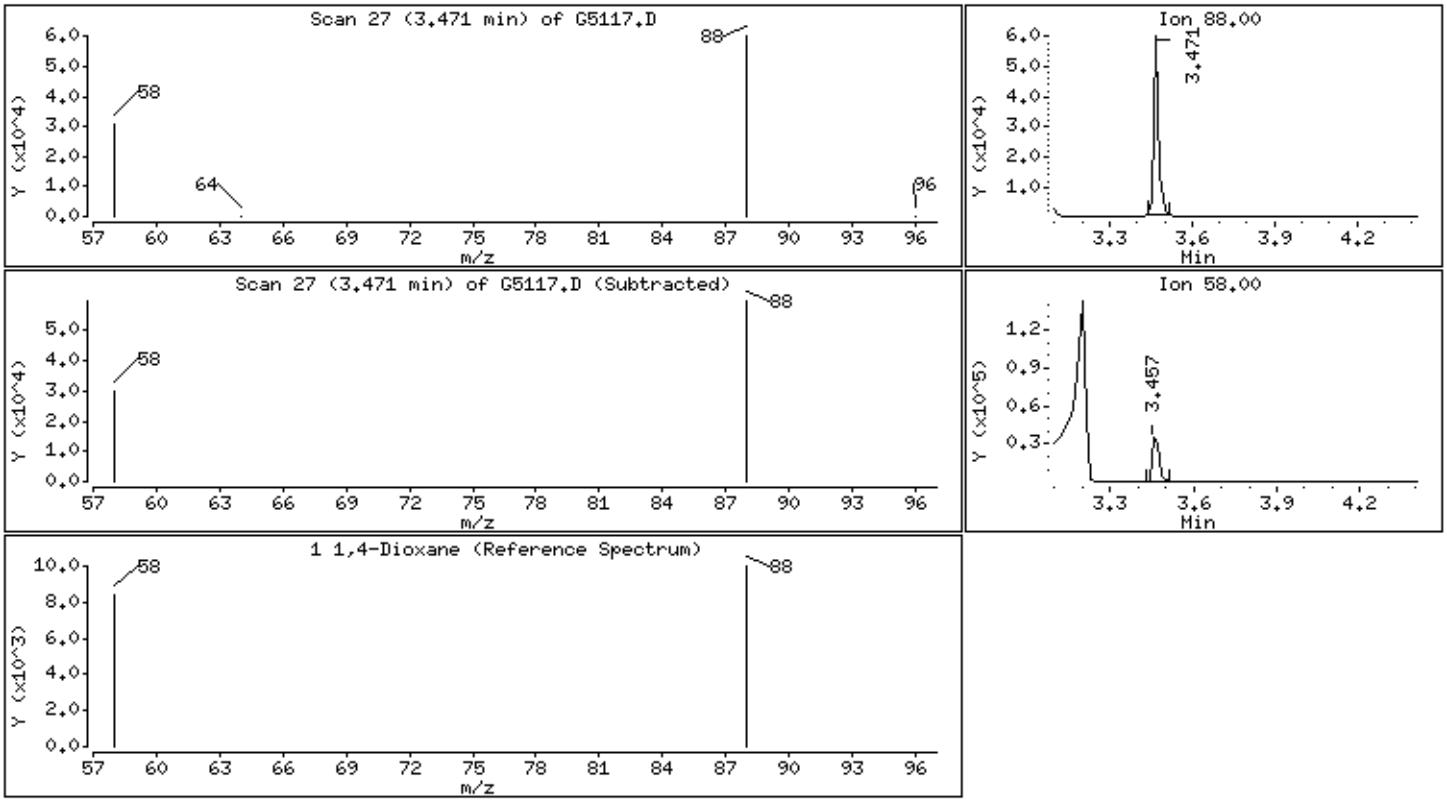
Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5117.D

Date : 30-JUN-2015 17:13

Client ID: DUPLICATE-GW-062215 Instrument: gcms-g.i

Sample Info: SI4462-7

1 1,4-Dioxane Concentration: 2.42 ug/L



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-11DL
Client ID: RE105D1-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5128.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 01-JUL-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane		11	ug/L	2	.25	0.48	0.16	0.35
1,4-Dioxane-D8		60.6	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\G5128.D
Report Date: 10-Jul-2015 07:26

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G070115.b\G5128.D
Lab Smp Id: SI4462-11DL Client Smp ID: RE105D1-GW-062315
Inj Date : 01-JUL-2015 13:08 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-11DL
Misc Info : WG165763,WG165450,WG165655-4
Comment   :
Method   : \\target_server\gg\chem\gcms-g.i\G070115.b\GDIOXN55.m
Meth Date : 01-Jul-2015 11:22 cgomez Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 6
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

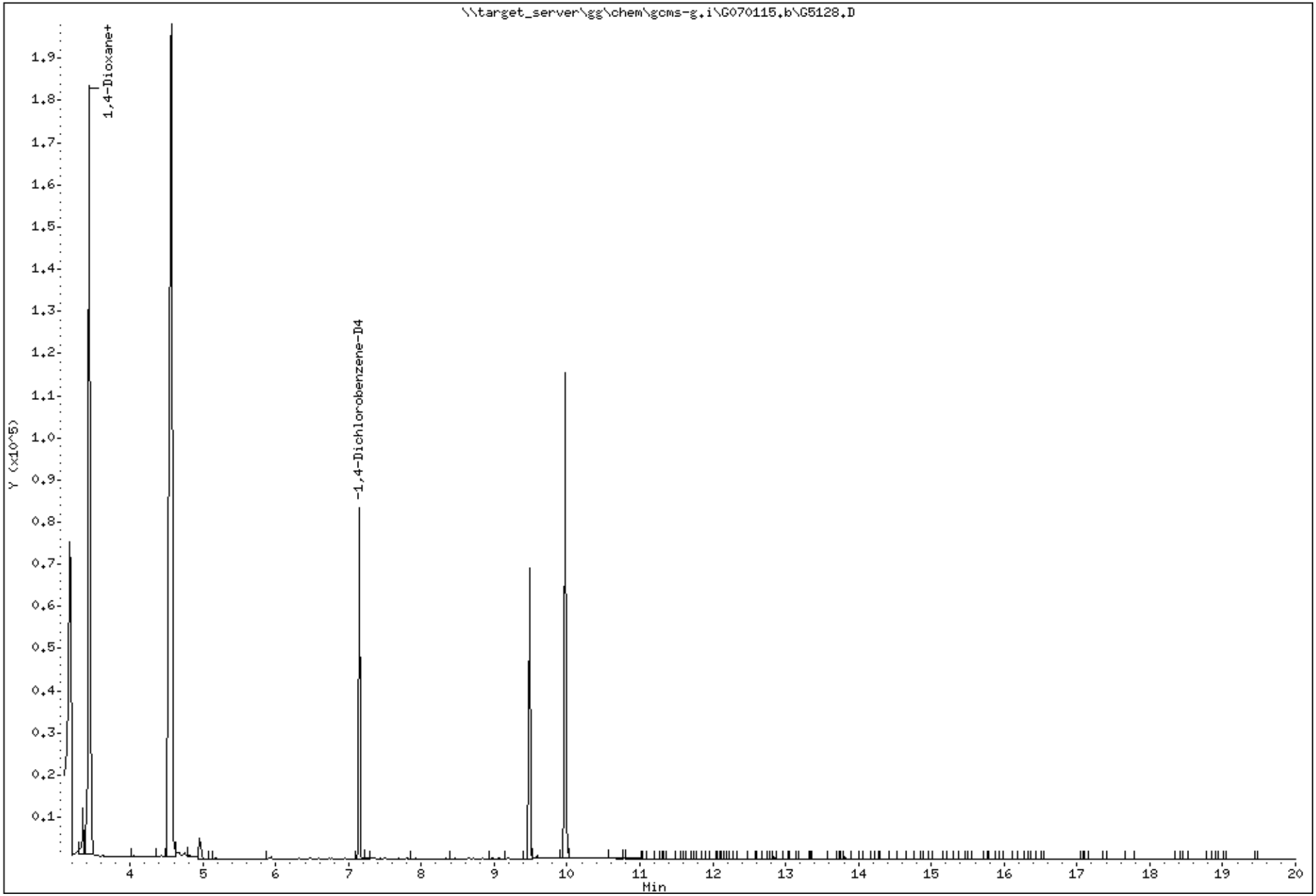
Name	Value	Description
DF	2.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.030	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.441	3.427	(0.482)	143292	5.77000	11.2	
$ 2 1,4-Dioxane-D8	96	3.413	3.384	(0.478)	13310	0.60618	1.18(QH)	
* 3 1,4-Dichlorobenzene-D4	150	7.141	7.155	(1.000)	50936	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\G5128.D
Date : 01-JUL-2015 13:08
Client ID: RE105D1-GW-062315 Instrument: gcms-g.i
Sample Info: SI4462-11DL



Katahdin Analytical Services 0000295

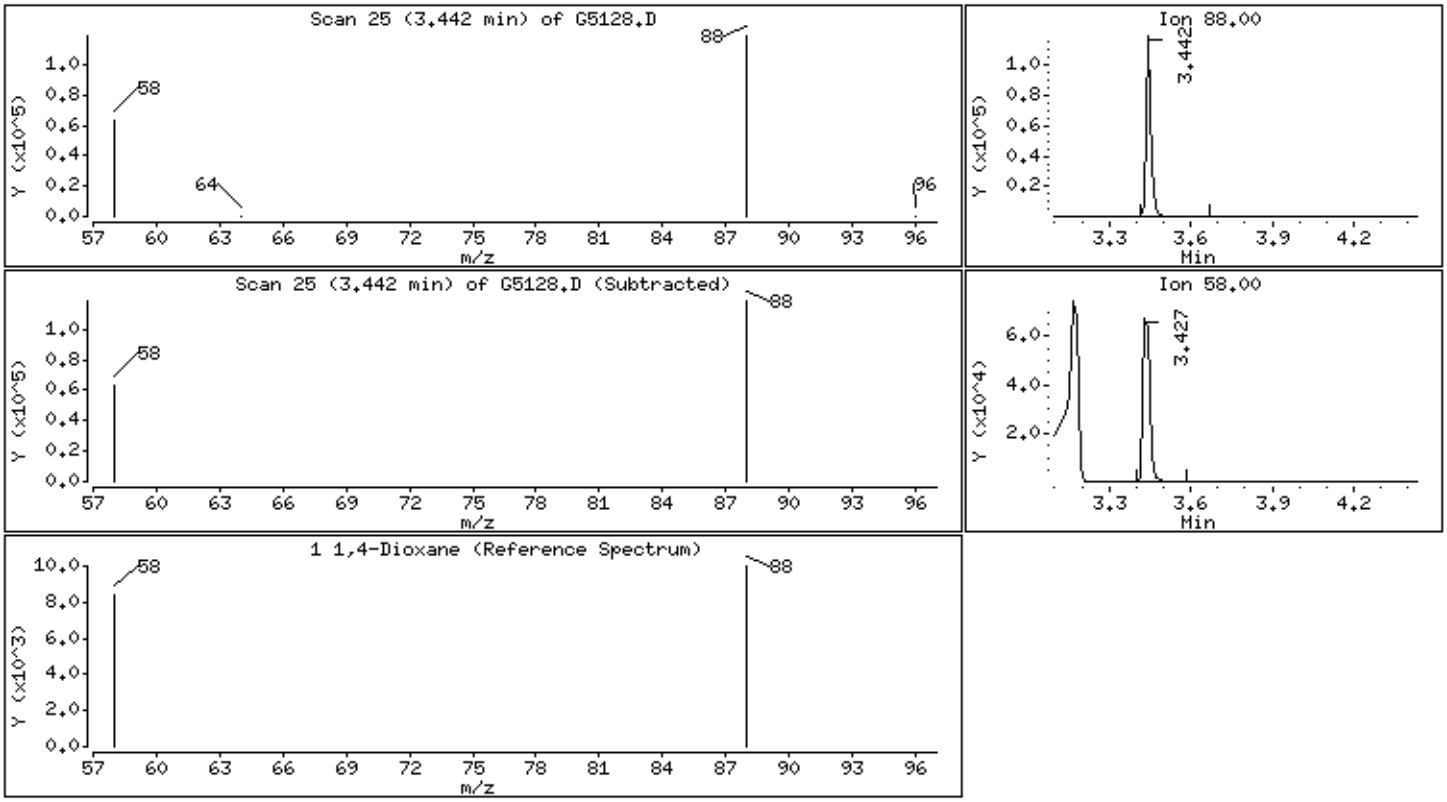
Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\G5128.D

Date : 01-JUL-2015 13:08

Client ID: RE105D1-GW-062315 Instrument: gcms-g.i

Sample Info: SI4462-11DL

1 1,4-Dioxane Concentration: 11.2 ug/L



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4462-12
Client ID: RE105D2-GW-062315
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4462
Lab File ID: G5119.D

Sample Date: 23-JUN-15
Received Date: 24-JUN-15
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane		6.1	ug/L	1	.25	0.24	0.080	0.17
1,4-Dioxane-D8		74.3	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5119.D
Report Date: 10-Jul-2015 07:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5119.D
Lab Smp Id: SI4462-12 Client Smp ID: RE105D2-GW-062315
Inj Date : 30-JUN-2015 18:08 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4462-12
Misc Info : WG165655,WG165450,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

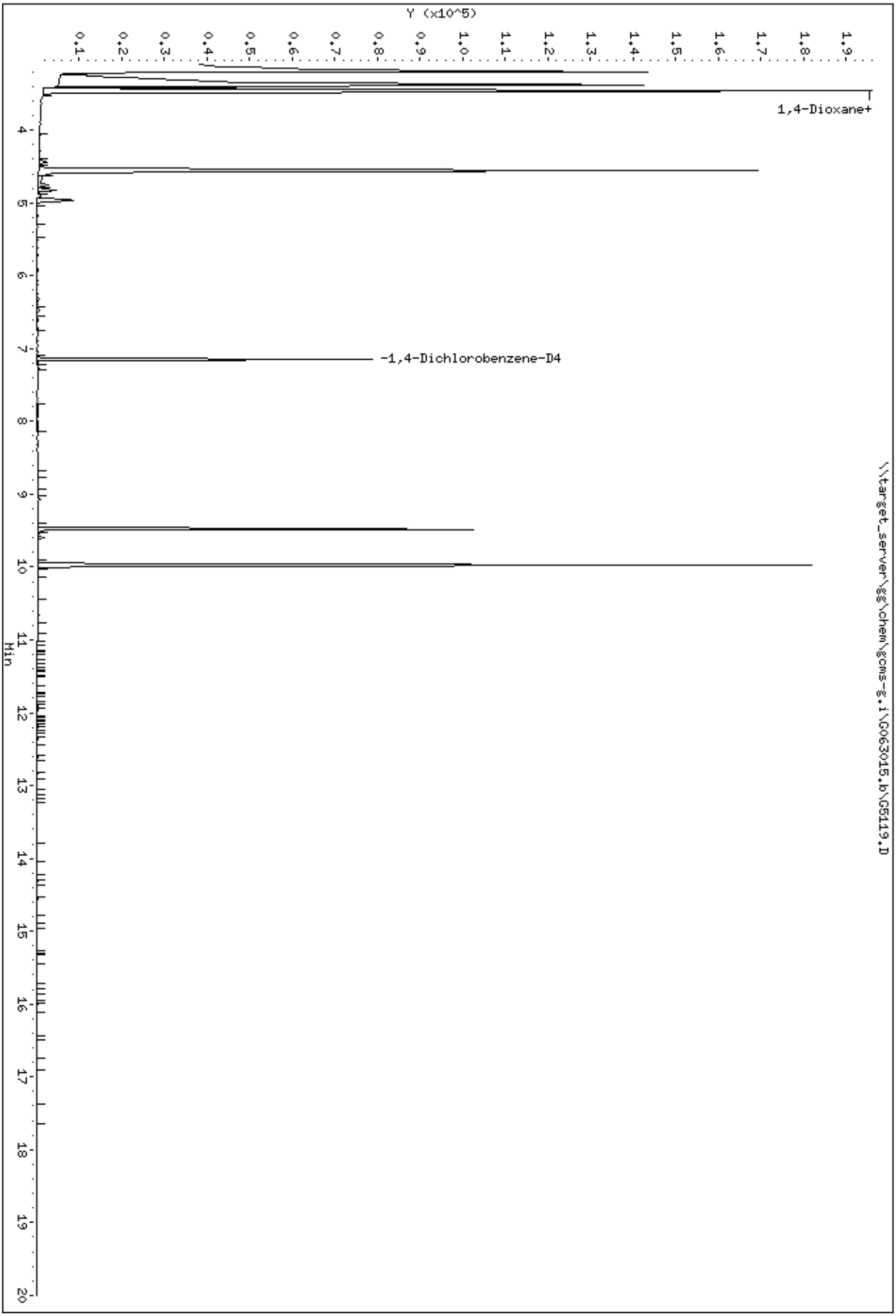
Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.469	3.412	(0.486)	155918	6.49203	6.12	
$ 2 1,4-Dioxane-D8	96	3.426	3.369	(0.480)	31545	1.48554	1.40(H)	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	49260	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5119.D
Date : 30-JUN-2015 18:08
Client ID: RE105D2-GW-062315
Sample Info: SI4462-12
Instrument: gcms-g.i
\\target_server\gg\chem\gcms-g.i\G063015.b\G5119.D
Y (x10^5)
1,4-Dioxane+
-1,4-Dichlorobenzene-D4
Min

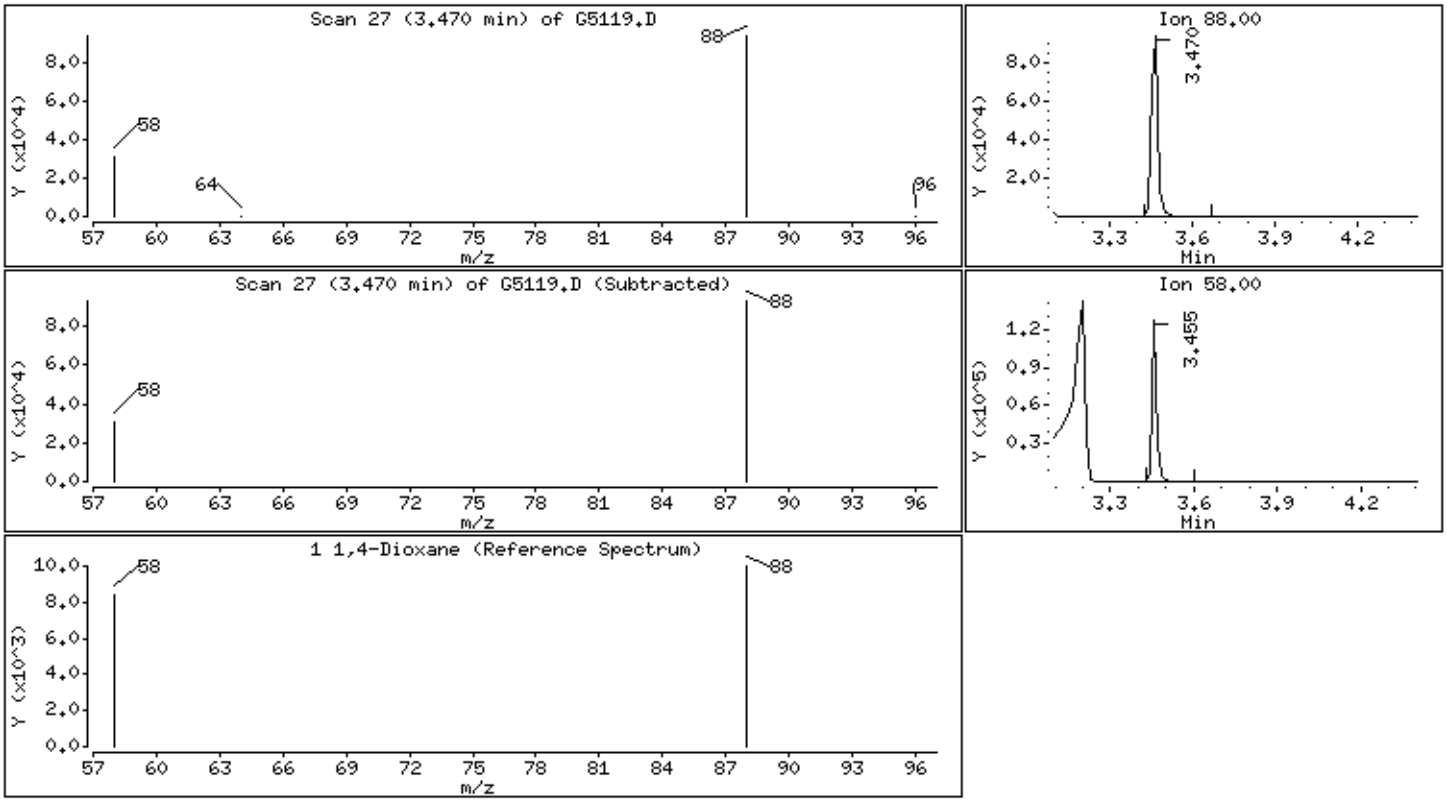
Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5119.D

Date : 30-JUN-2015 18:08

Client ID: RE105D2-GW-062315 Instrument: gcms-g.i

Sample Info: SI4462-12

1 1,4-Dioxane Concentration: 6.12 ug/L



Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4462
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-G
Lab File IDs : G5101.D G5102.D G5100.D G5103.D G5104.D G5105.D **Column ID:**
Calibration Date(s): 30-JUN-15 09:03 30-JUN-15 11:19

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	0.250000(	0.500000(	1.0000	3.0000	7.0000	10.0000	New	b	m1	m2	%RSD	%RSD	
1,4-Dioxane	0.44412	0.41649	0.40070	0.37464	0.35441	0.34990	AVG		0.39004		9.49334	15.00000	O
1,4-Dioxane-D8	0.35002	0.36359	0.36172	0.35292	0.29761	0.34329	AVG		0.34486		7.05714	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

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sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5106.D
Report Date: 09-Jul-2015 15:07

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Client SDG: 021497
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: WG165655-8
Level: LOW
Operator: JCG
Data Type: MS DATA
SampleType: INDCHECK
SpikeList File: shawINDaq.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Misc Info: WG165655,WG165655,WG165655-4

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 1,4-Dioxane	2.00	1.96	97.91	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 2 1,4-Dioxane-D8	2.00	0.000	*	30-150

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5100.D
Report Date: 09-Jul-2015 15:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5100.D
Lab Smp Id: WG165655-4
Inj Date : 30-JUN-2015 09:03 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165655-4
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

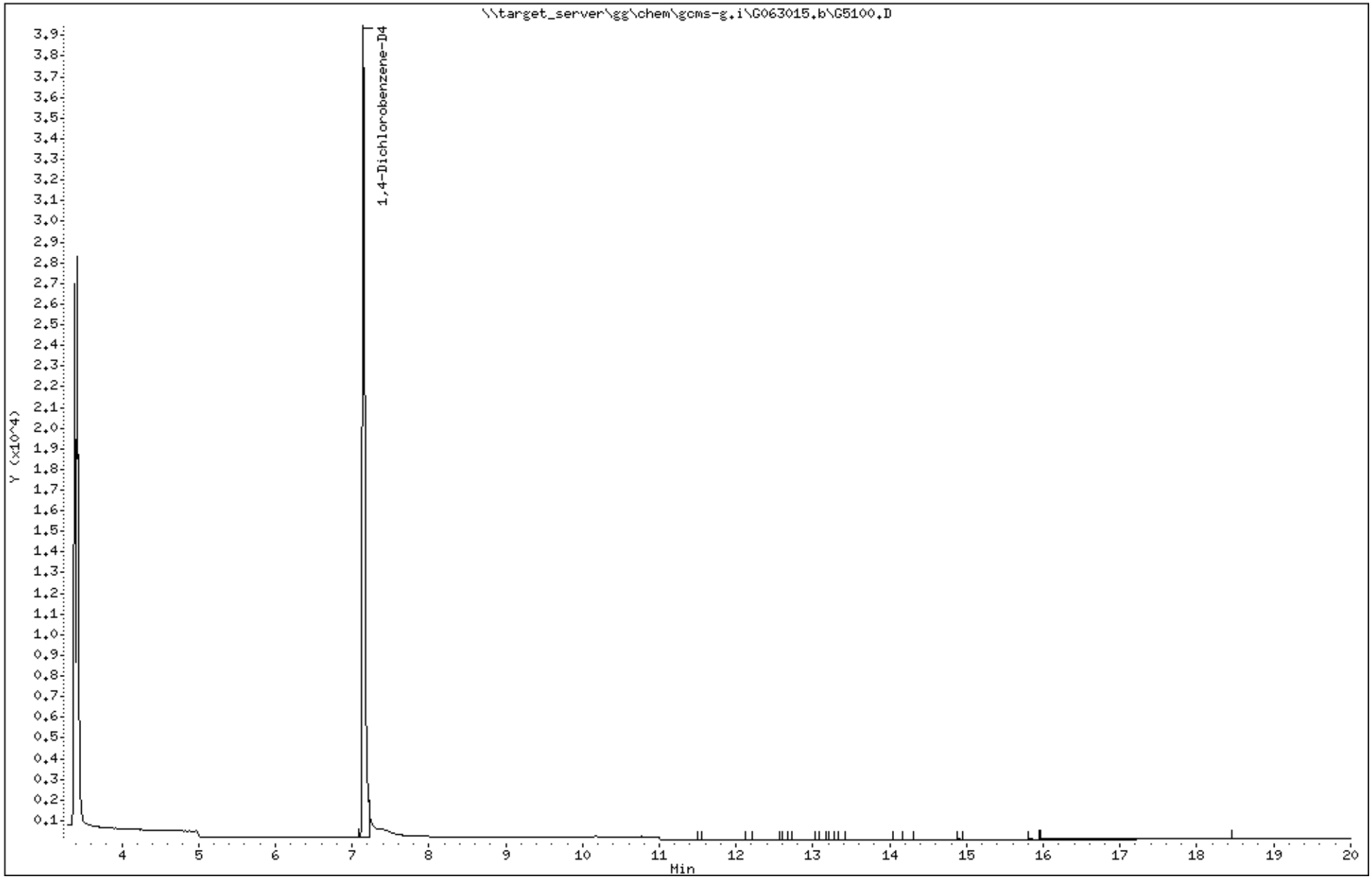
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.426	3.412	(0.480)	22786	1.00000	1.03	
$ 2 1,4-Dioxane-D8	96	3.383	3.369	(0.474)	20569	1.00000	1.05	
* 3 1,4-Dichlorobenzene-D4	150	7.141	7.140	(1.000)	45492	0.80000		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5100.D
Date : 30-JUN-2015 09:03
Client ID:
Sample Info: WG165655-4
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000305

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5101.D
Report Date: 09-Jul-2015 15:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5101.D
Lab Smp Id: WG165655-2
Inj Date : 30-JUN-2015 09:30 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165655-2
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 09:30 Cal File: G5101.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

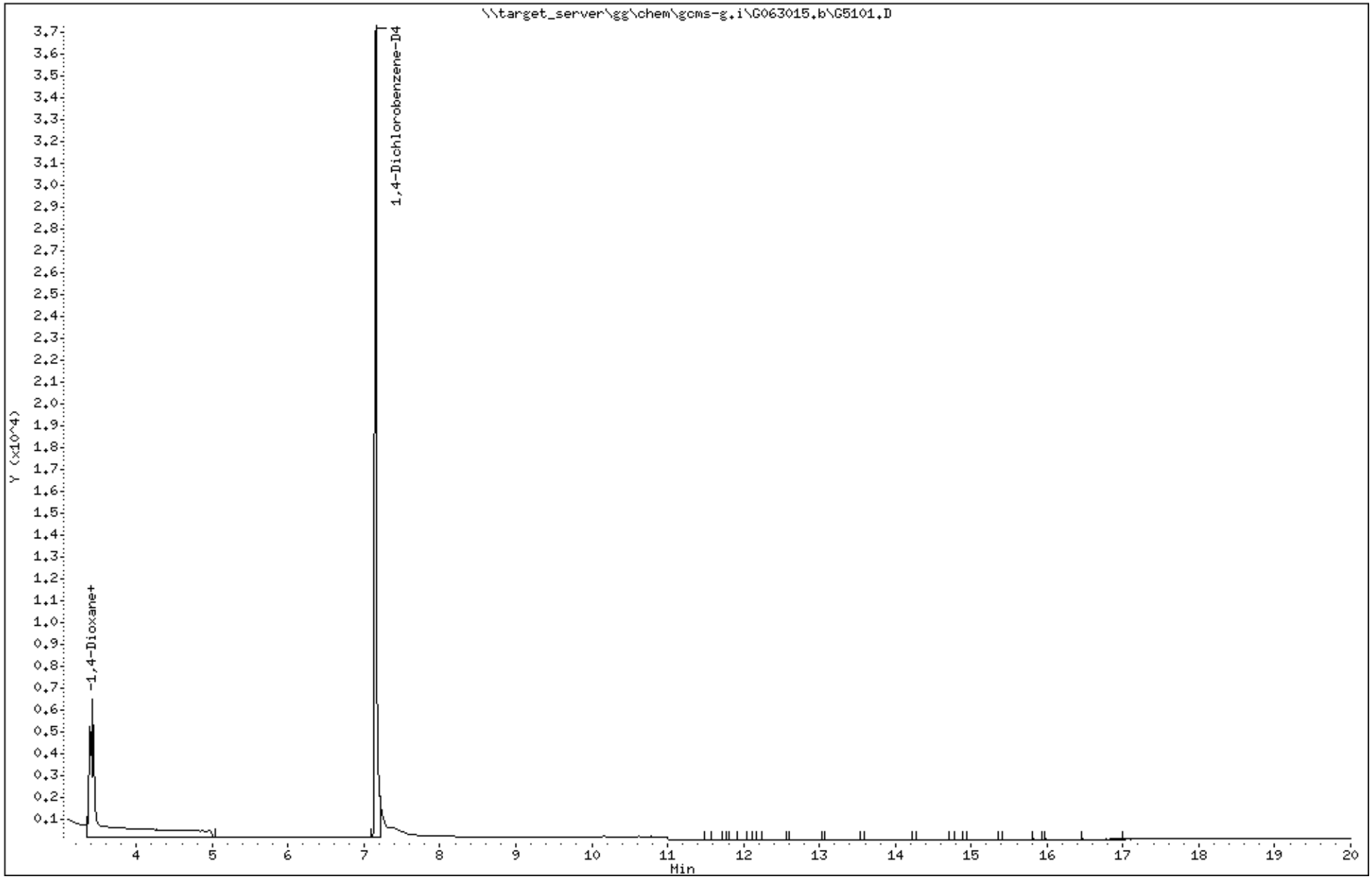
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.425	3.412	(0.480)	6424	0.25000	0.285	
$ 2 1,4-Dioxane-D8	96	3.397	3.369	(0.476)	5063	0.25000	0.254	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	46287	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5101.D
Date : 30-JUN-2015 09:30
Client ID:
Sample Info: WG165655-2
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000307

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5102.D
Report Date: 09-Jul-2015 15:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5102.D
Lab Smp Id: WG165655-3
Inj Date : 30-JUN-2015 09:57 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165655-3
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 09:57 Cal File: G5102.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

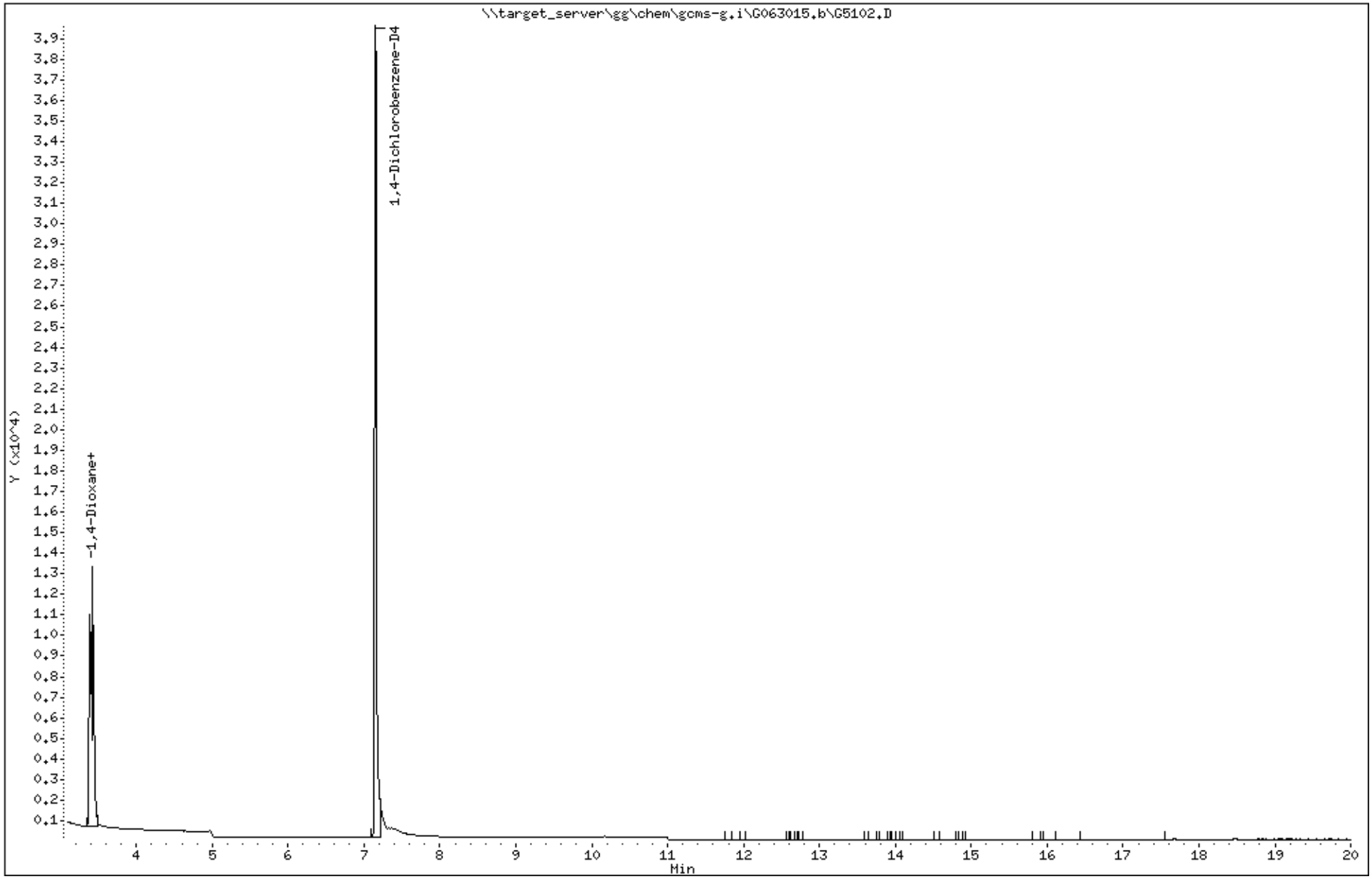
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.426	3.412	(0.480)	12291	0.50000	0.534	
$ 2 1,4-Dioxane-D8	96	3.397	3.369	(0.476)	10730	0.50000	0.527	
* 3 1,4-Dichlorobenzene-D4	150	7.141	7.140	(1.000)	47218	0.80000		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5102.D
Date : 30-JUN-2015 09:57
Client ID:
Sample Info: WG165655-3
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000309

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5103.D
Report Date: 09-Jul-2015 15:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5103.D
Lab Smp Id: WG165655-5
Inj Date : 30-JUN-2015 10:24 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165655-5
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 10:24 Cal File: G5103.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

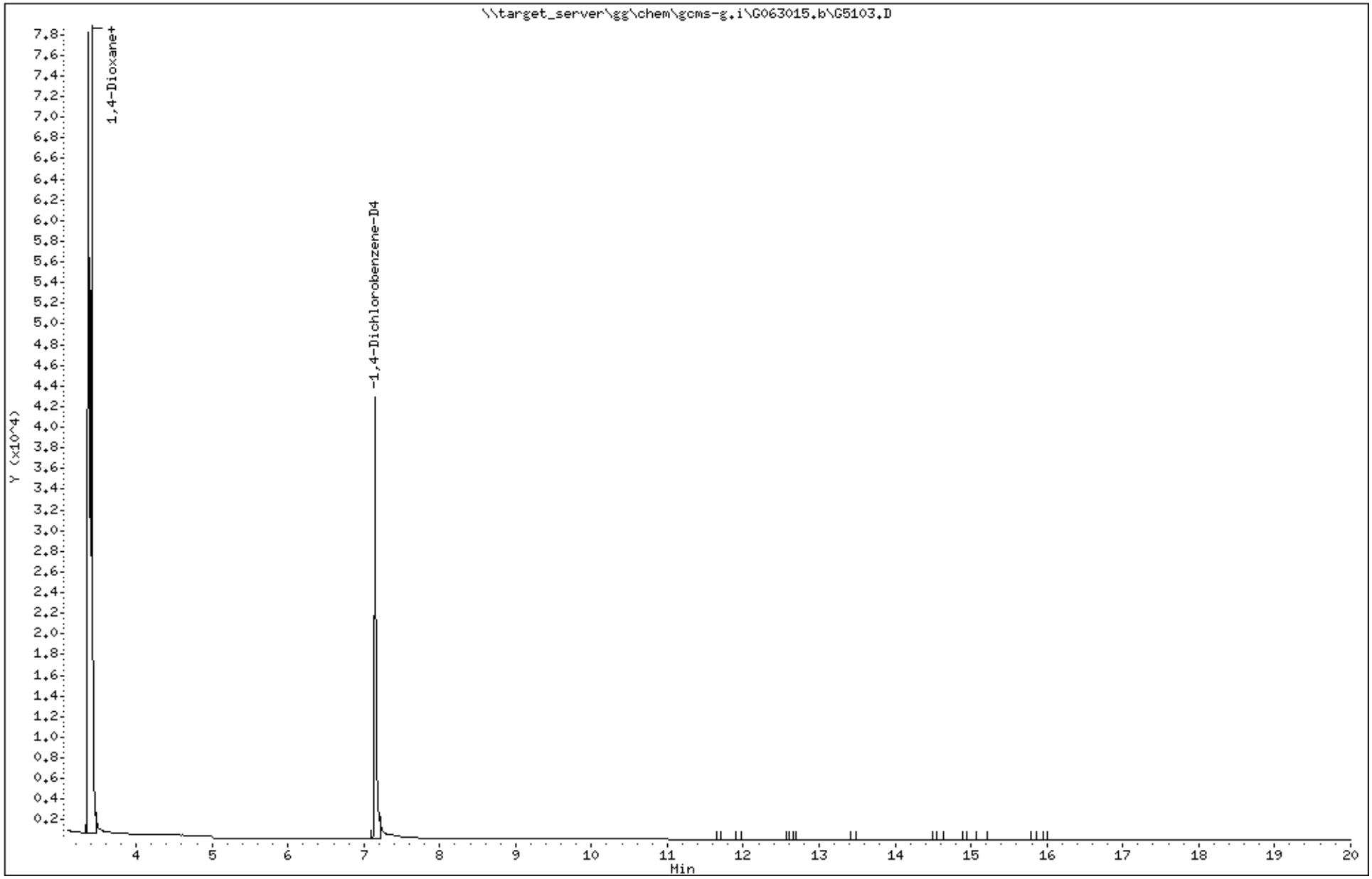
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.413	3.412	(0.478)	66185	3.00000	2.88	
$ 2 1,4-Dioxane-D8	96	3.370	3.369	(0.472)	62348	3.00000	3.07	
* 3 1,4-Dichlorobenzene-D4	150	7.141	7.140	(1.000)	47110	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5103.D
Date : 30-JUN-2015 10:24
Client ID:
Sample Info: WG165655-5
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000311

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5104.D
Report Date: 09-Jul-2015 15:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5104.D
Lab Smp Id: WG165655-6
Inj Date : 30-JUN-2015 10:52 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165655-6
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 10:52 Cal File: G5104.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

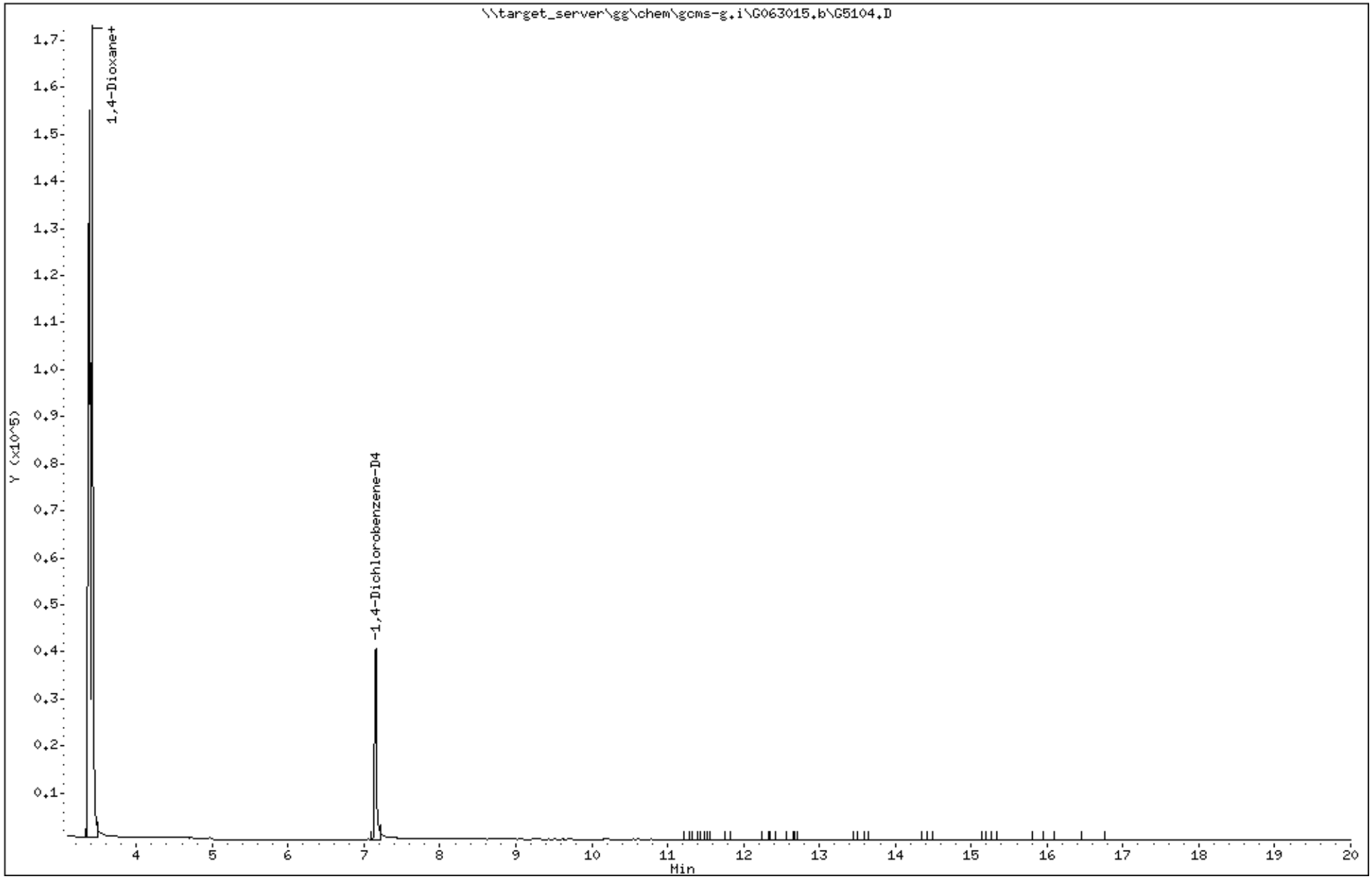
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.426	3.412	(0.480)	150104	7.00000	6.36	
$ 2 1,4-Dioxane-D8	96	3.383	3.369	(0.474)	126049	7.00000	6.04(Q)	
* 3 1,4-Dichlorobenzene-D4	150	7.141	7.140	(1.000)	48404	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5104.D
Date : 30-JUN-2015 10:52
Client ID:
Sample Info: WG165655-6
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000313

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5105.D
Report Date: 09-Jul-2015 15:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5105.D
Lab Smp Id: WG165655-7
Inj Date : 30-JUN-2015 11:19 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165655-7
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

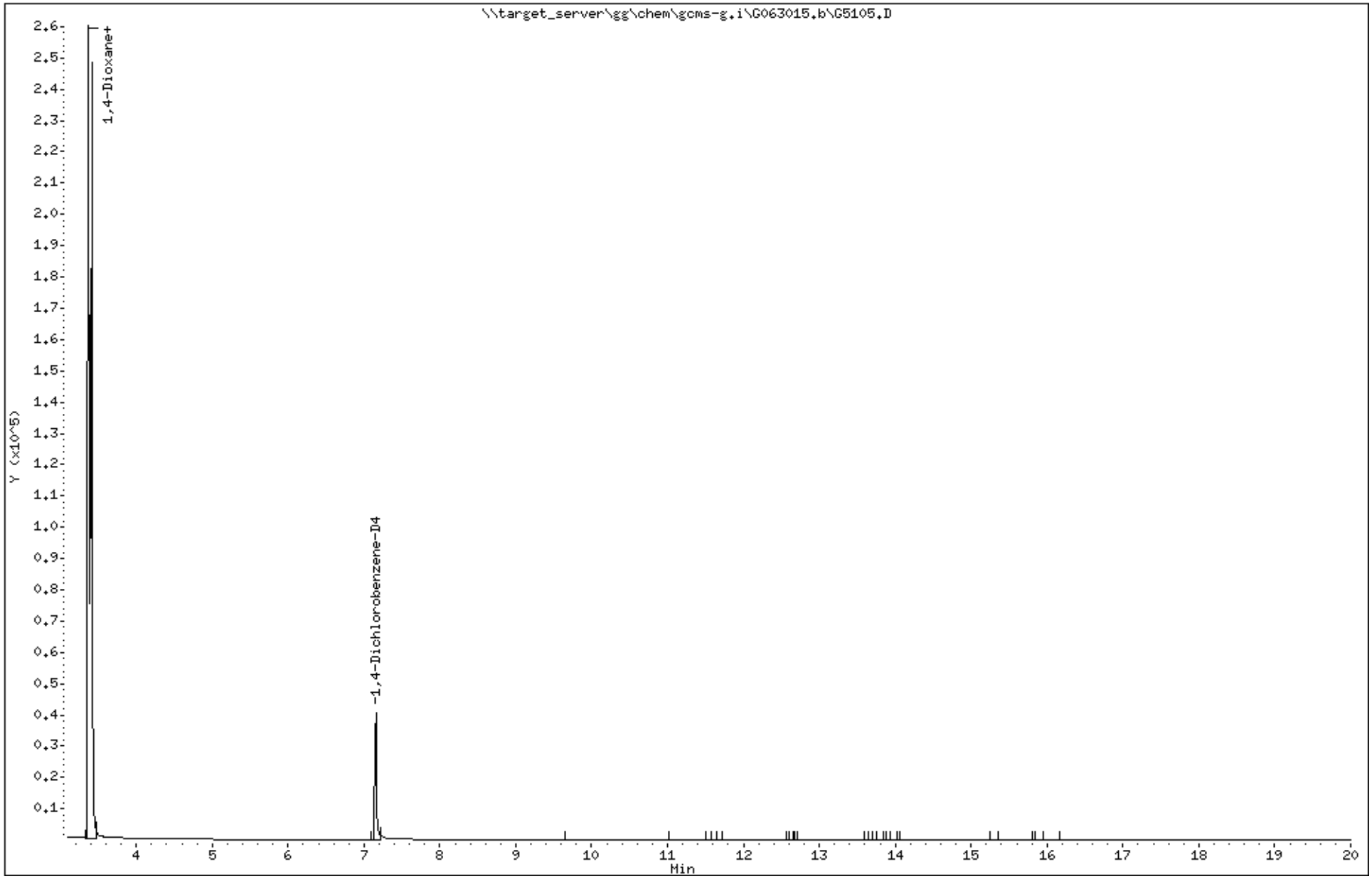
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.412	3.412	(0.478)	196429	10.0000	8.97	
$ 2 1,4-Dioxane-D8	96	3.369	3.369	(0.472)	192717	10.0000	9.95(Q)	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	44911	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5105.D
Date : 30-JUN-2015 11:19
Client ID:
Sample Info: WG165655-7
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000315

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5106.D
Report Date: 09-Jul-2015 15:07

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5106.D
Lab Smp Id: WG165655-8
Inj Date : 30-JUN-2015 11:47 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165655-8
Misc Info : WG165655,WG165655,WG165655-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 8 QC Sample: INDCHECK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

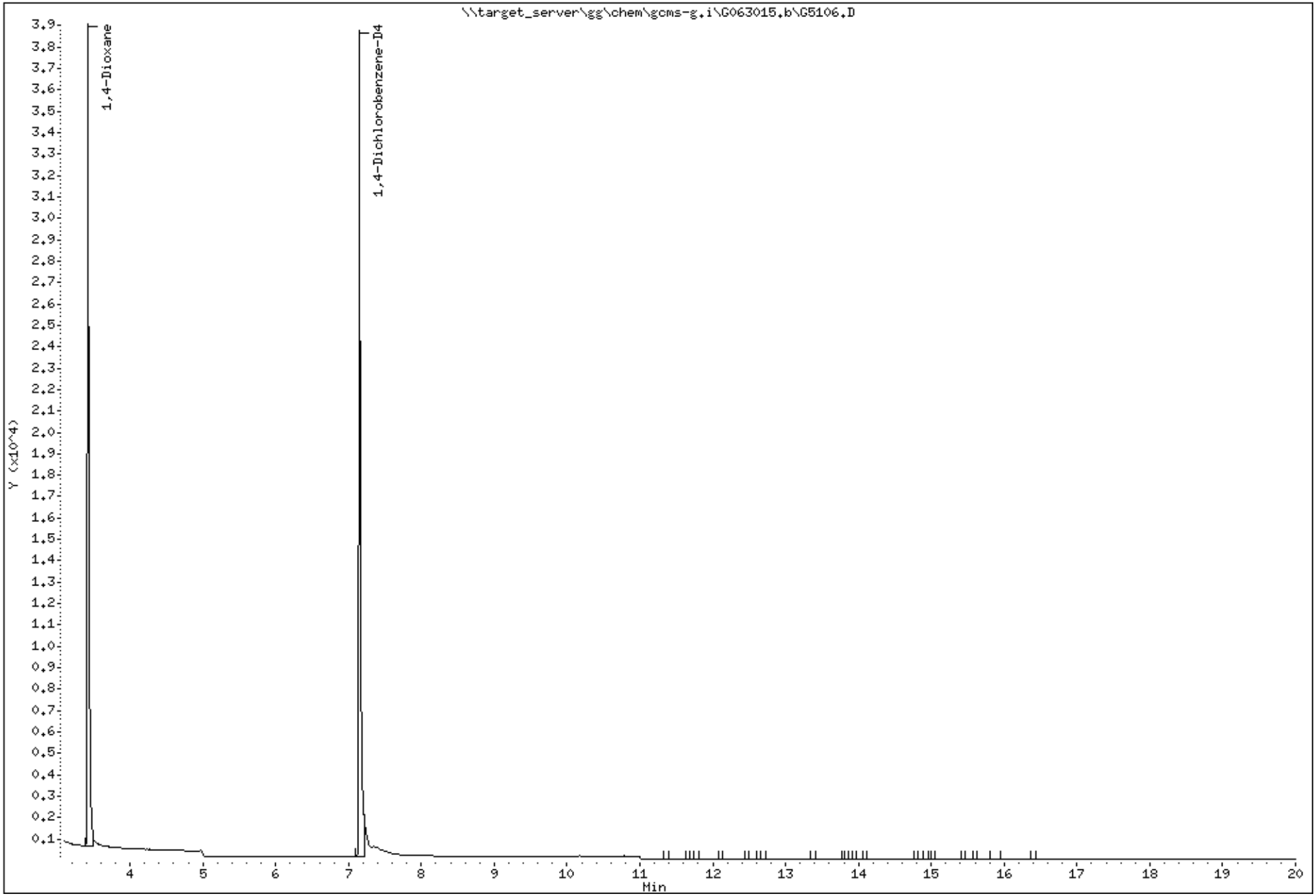
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.428	3.412	(0.479)	41150	1.95813	1.96	
* 3 1,4-Dichlorobenzene-D4	150	7.156	7.140	(1.000)	43103	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5106.D
Date : 30-JUN-2015 11:47
Client ID:
Sample Info: WG165655-8

Instrument: gcms-g.i



Katahdin Analytical Services 0000317

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG165763-2
Lab File ID : G5124.D
Initial Calibration Date(s): 06/30/15 09:03 06/30/15 11:19

SDG: SI4462
Analytical Date: 07/01/15 11:01
Instrument ID: GCMS-G
Column ID:

	Compound	RRF/Amount	RF1	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	1,4-Dioxane	0.39004	0.39013	0.010	0.02185	20.00000	Averaged
2	1,4-Dioxane-D8	0.34486	0.37081	0.010	7.52662	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\G5124.D
Report Date: 10-Jul-2015 07:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G070115.b\G5124.D
Lab Smp Id: WG165763-2
Inj Date : 01-JUL-2015 11:01 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165763-2,SI4462
Misc Info : WG165763,WG165763,WG165655-4,SI4462-11
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G070115.b\GDIOXN55.m
Meth Date : 01-Jul-2015 11:22 cgomez Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

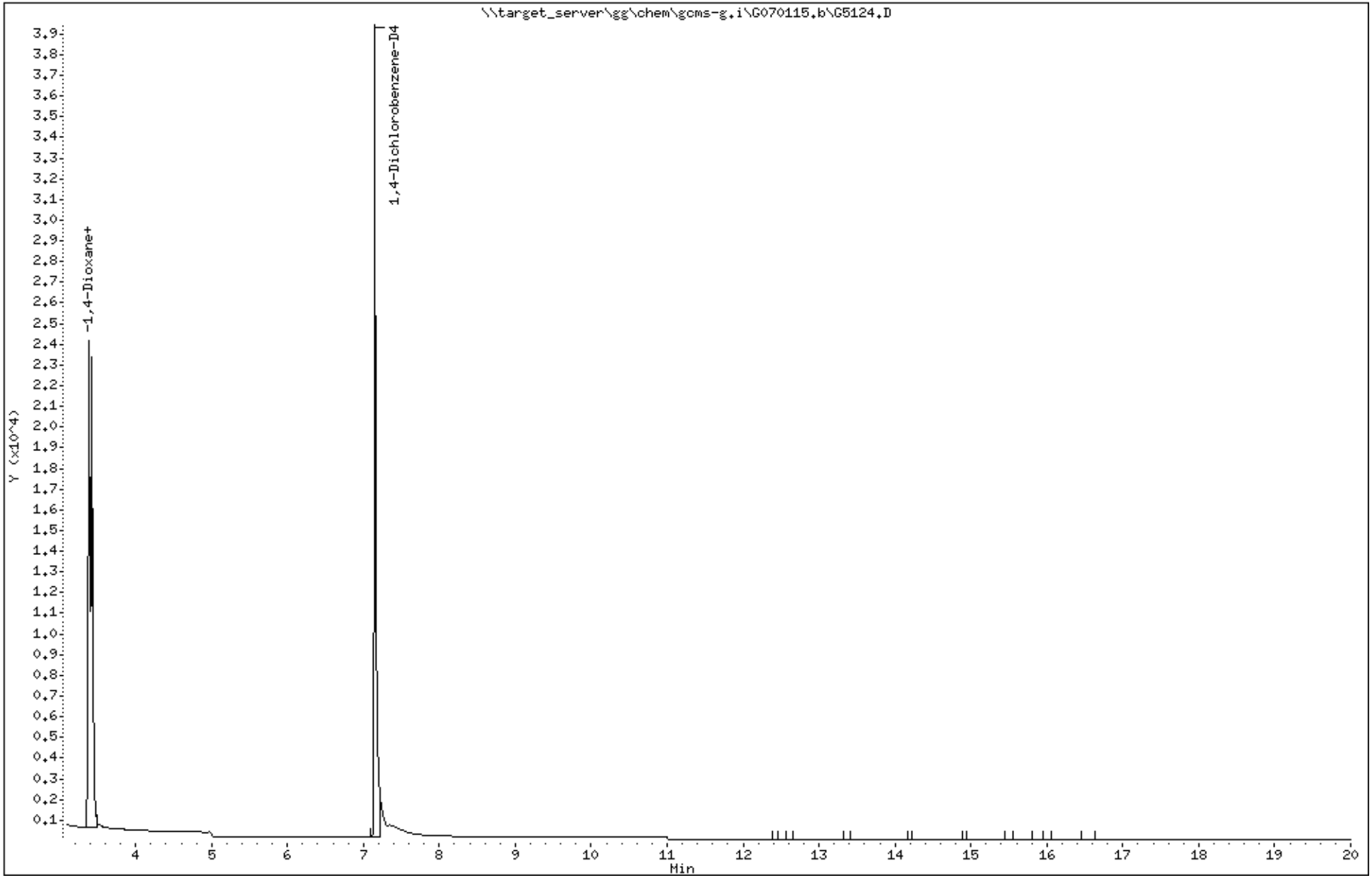
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	88	3.427	3.427	(0.479)	20726	1.00000	1.00	
$	2 1,4-Dioxane-D8	96	3.384	3.384	(0.473)	19700	1.00000	1.08	
*	3 1,4-Dichlorobenzene-D4	150	7.155	7.155	(1.000)	42501	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\G5124.D
Date : 01-JUL-2015 11:01
Client ID:
Sample Info: WG165763-2,SI4462
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000320

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\GD633.D

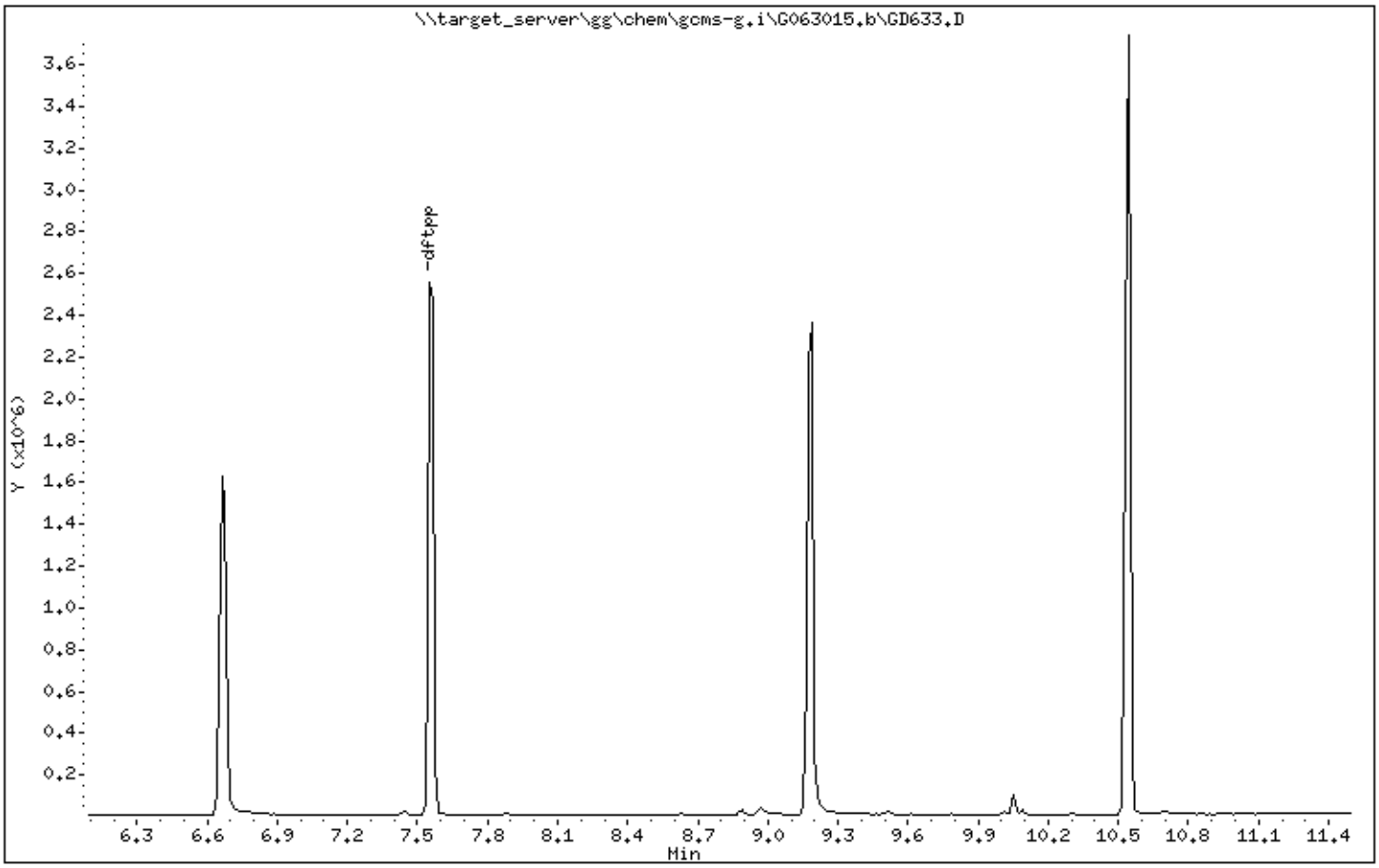
Date : 30-JUN-2015 08:44

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165655-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\GD633.D

Date : 30-JUN-2015 08:44

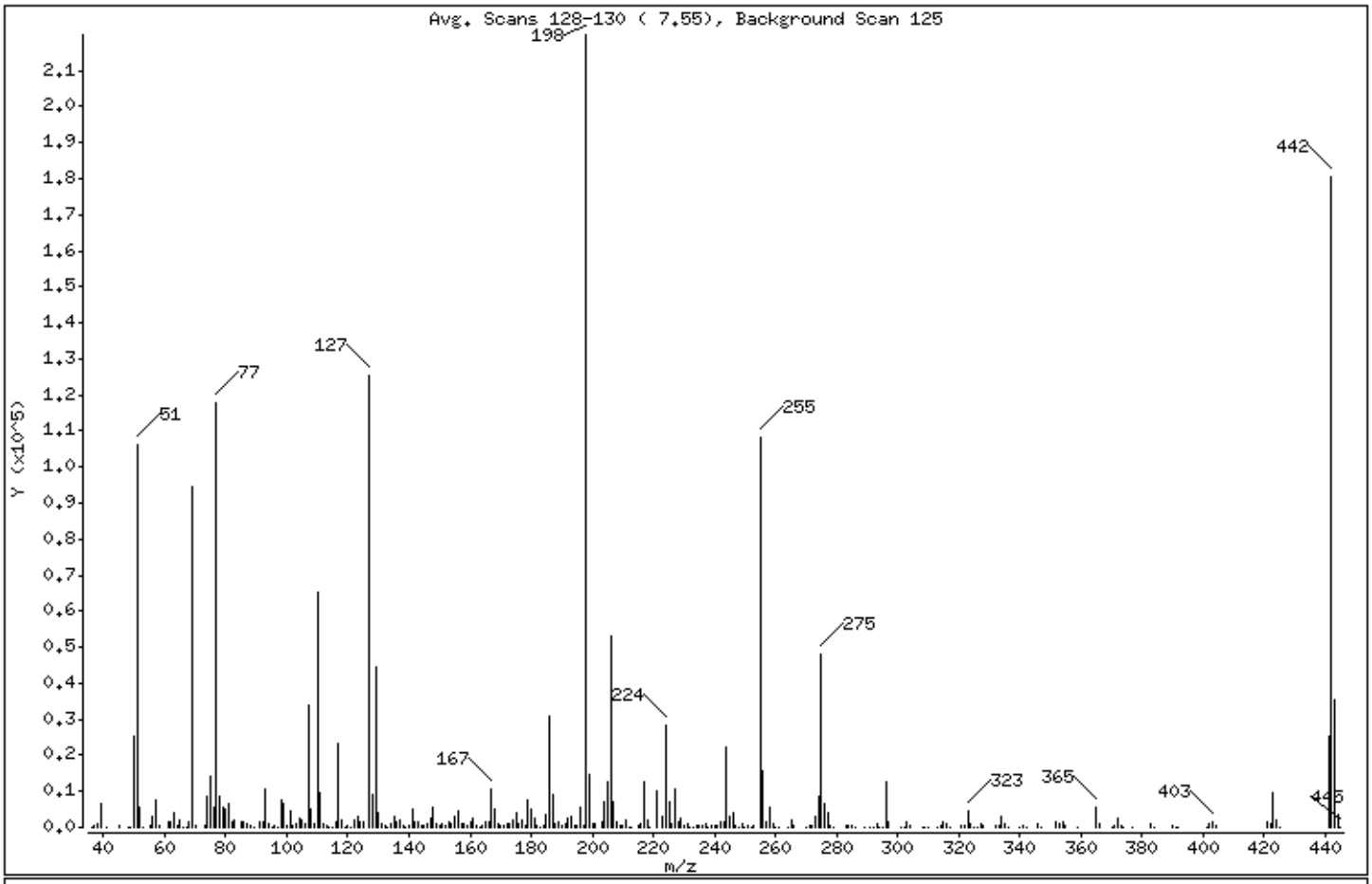
Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165655-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.28
68	Less than 2.00% of mass 69	0.63 (1.45)
69	Less than 100.00% of mass 198	43.02
70	Less than 2.00% of mass 69	0.27 (0.63)
127	40.00 - 60.00% of mass 198	57.10
197	Less than 1.00% of mass 198	0.25
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 30.00% of mass 198	21.95
365	1.00 - 100.00% of mass 198	2.57
441	0.01 - 100.00% of mass 443	11.59 (71.85)
442	40.00 - 100.00% of mass 198	82.14
443	17.00 - 23.00% of mass 442	16.14 (19.65)

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\GD633.D

Date : 30-JUN-2015 08:44

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165655-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD633.D
Spectrum: Avg. Scans 128-130 (7.55), Background Scan 125
Location of Maximum: 198.00
Number of points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	34	123.00	3111	198.00	219968	285.00	727
37.00	382	124.00	1380	199.00	14579	286.00	156
38.00	1100	125.00	1623	200.00	1166	289.00	130
39.00	6751	127.00	125600	201.00	983	291.00	60
41.00	174	128.00	9227	203.00	1354	292.00	219
45.00	262	129.00	44712	204.00	7303	293.00	853
48.00	51	130.00	3898	205.00	12627	294.00	201
49.00	77	131.00	762	206.00	53128	295.00	233
50.00	25256	132.00	485	207.00	7010	296.00	12508
51.00	106200	133.00	154	208.00	1457	297.00	1766
52.00	5422	134.00	1118	209.00	569	301.00	144
53.00	216	135.00	3272	210.00	748	302.00	230
55.00	317	136.00	1540	211.00	2076	303.00	1560
56.00	3232	137.00	1811	212.00	205	304.00	472
57.00	7654	138.00	399	213.00	78	308.00	208
58.00	383	139.00	185	215.00	500	309.00	67
61.00	1335	140.00	511	216.00	978	310.00	165
62.00	1389	141.00	5018	217.00	12414	313.00	165
63.00	3882	142.00	1580	218.00	1824	314.00	709
64.00	539	143.00	1327	219.00	157	315.00	1432
65.00	2136	144.00	406	221.00	10012	316.00	908
66.00	180	145.00	349	223.00	2836	317.00	154
67.00	55	146.00	889	224.00	28544	321.00	469
68.00	1376	147.00	2649	225.00	7277	322.00	259
69.00	94632	148.00	5611	226.00	793	323.00	4799
70.00	594	149.00	1131	227.00	10774	324.00	988
73.00	589	150.00	374	228.00	1663	325.00	59
74.00	8492	151.00	788	229.00	2366	326.00	57
75.00	14045	152.00	468	230.00	366	327.00	840
76.00	5397	153.00	1459	231.00	1083	328.00	336
77.00	118000	154.00	1165	232.00	76	332.00	296
78.00	8396	155.00	2965	233.00	213	333.00	365
79.00	5691	156.00	4703	234.00	485	334.00	2977
80.00	4860	157.00	1045	235.00	685	335.00	824
81.00	6822	158.00	759	236.00	547	336.00	125

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\GD633.D

Date : 30-JUN-2015 08:44

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165655-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD633.D
Spectrum: Avg. Scans 128-130 (7.55), Background Scan 125
Location of Maximum: 198.00
Number of points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1763	159.00	646	237.00	808	340.00	66
83.00	2020	160.00	1536	238.00	57	341.00	547
85.00	1315	161.00	2296	239.00	447	342.00	133
86.00	1583	162.00	716	240.00	291	346.00	1029
87.00	879	163.00	205	241.00	513	347.00	210
88.00	445	164.00	260	242.00	1385	352.00	1326
89.00	235	165.00	1744	243.00	1518	353.00	976
91.00	1393	166.00	1485	244.00	22264	354.00	1489
92.00	1750	167.00	10437	245.00	2856	355.00	328
93.00	10463	168.00	5134	246.00	3864	359.00	64
94.00	785	169.00	954	247.00	742	365.00	5653
95.00	202	170.00	372	248.00	144	366.00	931
96.00	596	171.00	337	249.00	824	370.00	153
97.00	169	172.00	831	250.00	137	371.00	332
98.00	7796	173.00	1237	251.00	257	372.00	2627
99.00	6440	174.00	1922	252.00	215	373.00	668
100.00	568	175.00	3827	253.00	433	374.00	70
101.00	4377	176.00	1235	255.00	108312	377.00	72
102.00	303	177.00	1906	256.00	15829	383.00	769
103.00	1253	178.00	595	257.00	1270	384.00	206
104.00	2455	179.00	7493	258.00	5472	390.00	355
105.00	2204	180.00	5060	259.00	891	391.00	201
106.00	790	181.00	2613	260.00	73	392.00	165
107.00	33920	182.00	452	261.00	187	401.00	90
108.00	5247	183.00	207	264.00	213	402.00	1197
109.00	960	184.00	720	265.00	2095	403.00	1717
110.00	65336	185.00	3731	266.00	614	404.00	617
111.00	9424	186.00	30712	270.00	53	421.00	1390
112.00	1230	187.00	8850	271.00	281	422.00	1200
113.00	343	188.00	886	272.00	312	423.00	9640
114.00	72	189.00	1600	273.00	3193	424.00	1967
115.00	129	190.00	261	274.00	8587	425.00	205
116.00	1575	191.00	786	275.00	48280	441.00	25504
117.00	23024	192.00	2381	276.00	6630	442.00	180672
118.00	1820	193.00	2822	277.00	3836	443.00	35496

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\GD633.D

Date : 30-JUN-2015 08:44

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165655-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD633.D
Spectrum: Avg. Scans 128-130 (7.55), Background Scan 125
Location of Maximum: 198.00
Number of points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	186	194.00	717	278.00	664	444.00	3459
120.00	463	195.00	319	279.00	156	445.00	233
121.00	50	196.00	5712	283.00	450		
122.00	2006	197.00	554	284.00	312		

Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\GD634.D

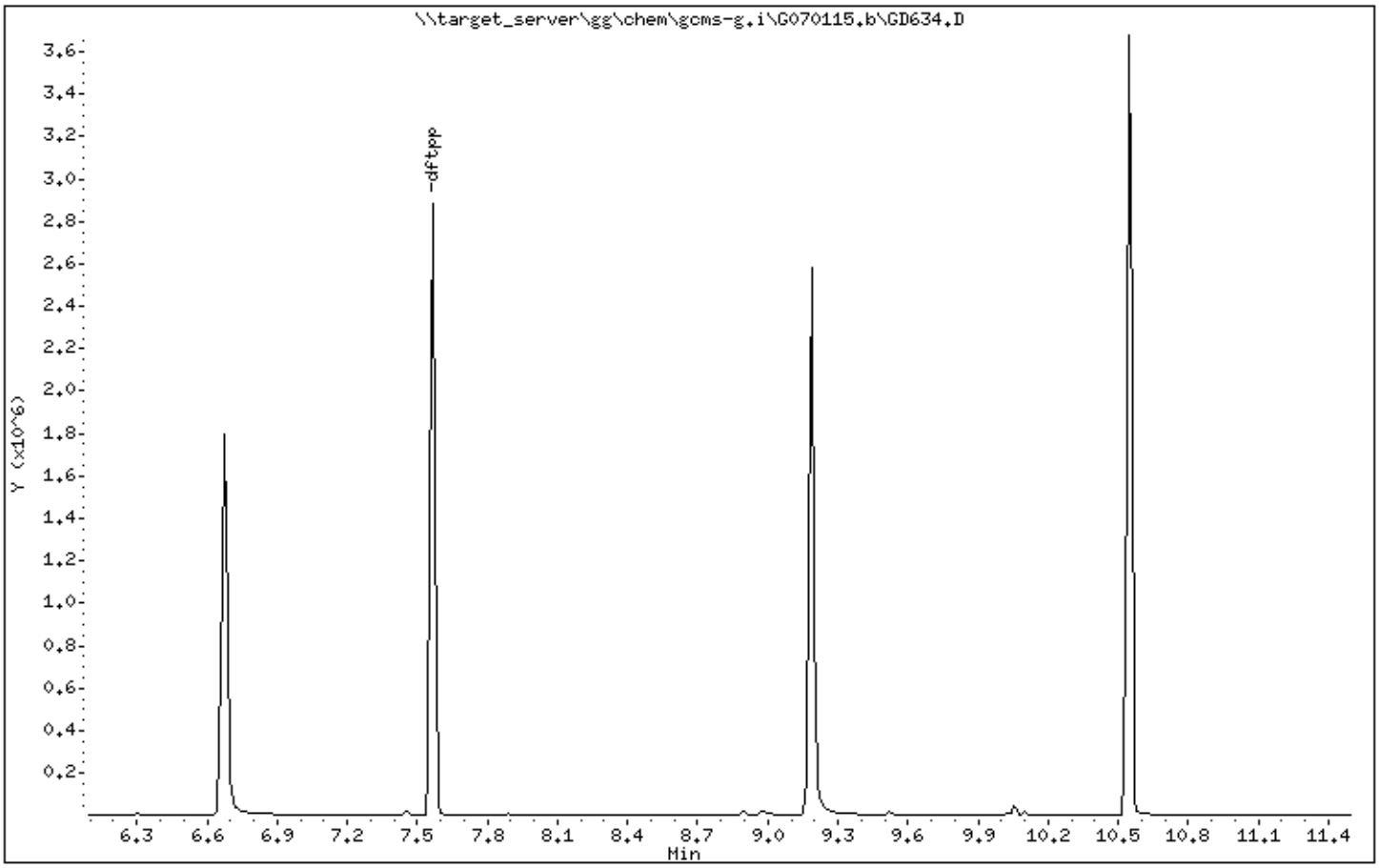
Date : 01-JUL-2015 10:43

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165763-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\GD634.D

Date : 01-JUL-2015 10:43

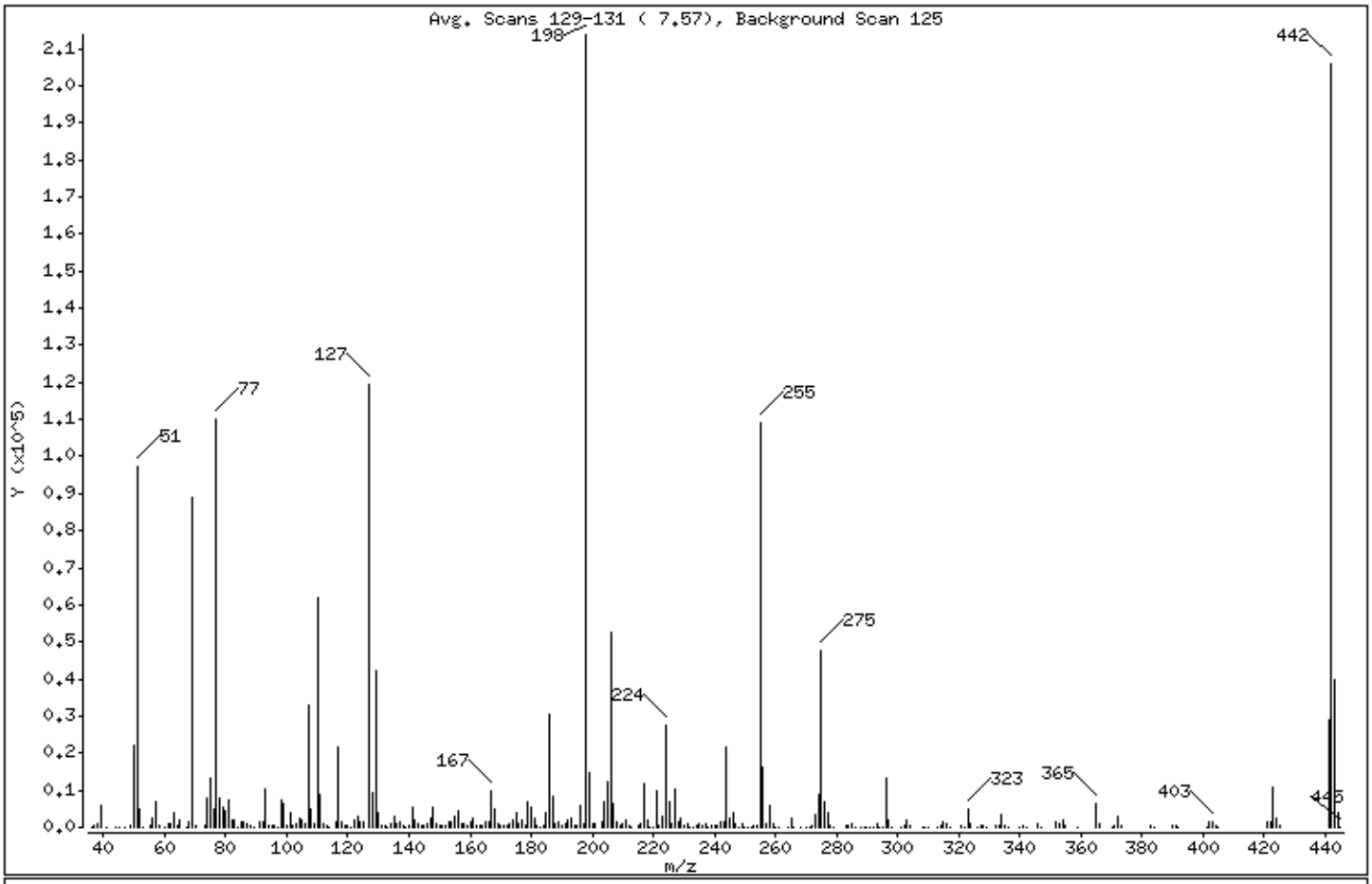
Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165763-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.47
68	Less than 2.00% of mass 69	0.58 (1.38)
69	Less than 100.00% of mass 198	41.66
70	Less than 2.00% of mass 69	0.22 (0.54)
127	40.00 - 60.00% of mass 198	55.85
197	Less than 1.00% of mass 198	0.43
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	22.21
365	1.00 - 100.00% of mass 198	3.05
441	0.01 - 100.00% of mass 443	13.67 (73.05)
442	40.00 - 100.00% of mass 198	96.23
443	17.00 - 23.00% of mass 442	18.71 (19.44)

Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\GD634.D

Date : 01-JUL-2015 10:43

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165763-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD634.D
Spectrum: Avg. Scans 129-131 (7.57), Background Scan 125
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	44	124.00	1331	201.00	900	286.00	91
37.00	300	125.00	1359	203.00	1312	288.00	50
38.00	899	127.00	119344	204.00	6754	289.00	145
39.00	5784	128.00	9162	205.00	12066	290.00	80
41.00	37	129.00	42112	206.00	52496	291.00	85
44.00	34	130.00	3689	207.00	6484	292.00	186
45.00	99	131.00	706	208.00	1570	293.00	931
47.00	130	132.00	411	209.00	560	294.00	192
49.00	335	133.00	186	210.00	786	295.00	76
50.00	22168	134.00	1124	211.00	1956	296.00	13450
51.00	97168	135.00	3184	212.00	248	297.00	1772
52.00	4853	136.00	1142	213.00	62	298.00	55
53.00	206	137.00	1711	215.00	463	301.00	172
55.00	492	138.00	299	216.00	1061	302.00	306
56.00	2697	139.00	203	217.00	11871	303.00	1764
57.00	6907	140.00	453	218.00	1736	304.00	497
58.00	276	141.00	5218	219.00	160	308.00	195
60.00	60	142.00	1855	220.00	54	309.00	140
61.00	1006	143.00	1156	221.00	9785	310.00	160
62.00	1116	144.00	389	222.00	497	313.00	75
63.00	3994	145.00	330	223.00	2758	314.00	675
64.00	582	146.00	858	224.00	27408	315.00	1613
65.00	2095	147.00	2428	225.00	6754	316.00	798
67.00	55	148.00	5467	226.00	813	317.00	189
68.00	1229	149.00	1204	227.00	10110	321.00	388
69.00	89024	150.00	316	228.00	1447	322.00	218
70.00	478	151.00	576	229.00	2292	323.00	4822
73.00	641	152.00	353	230.00	426	324.00	993
74.00	8081	153.00	1504	231.00	969	326.00	67
75.00	13348	154.00	1291	232.00	62	327.00	728
76.00	4956	155.00	2802	233.00	112	328.00	553
77.00	110168	156.00	4528	234.00	612	329.00	64
78.00	7649	157.00	858	235.00	746	332.00	360
79.00	5578	158.00	844	236.00	649	333.00	522
80.00	4519	159.00	602	237.00	1016	334.00	3280

Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\GD634.D

Date : 01-JUL-2015 10:43

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165763-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD634.D
Spectrum: Avg. Scans 129-131 (7.57), Background Scan 125
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	7146	160.00	1543	238.00	67	335.00	711
82.00	1760	161.00	2330	239.00	364	336.00	63
83.00	1934	162.00	726	240.00	387	340.00	51
84.00	149	163.00	251	241.00	589	341.00	680
85.00	1316	164.00	279	242.00	1393	342.00	78
86.00	1717	165.00	1707	243.00	1619	346.00	1057
87.00	817	166.00	1523	244.00	21664	347.00	206
88.00	425	167.00	10052	245.00	2664	352.00	1507
89.00	183	168.00	4871	246.00	3804	353.00	1111
91.00	1497	169.00	881	247.00	787	354.00	1744
92.00	1436	170.00	330	248.00	147	355.00	276
93.00	10185	171.00	414	249.00	802	359.00	119
94.00	703	172.00	699	250.00	74	365.00	6508
95.00	275	173.00	1066	251.00	167	366.00	872
96.00	555	174.00	1886	252.00	232	370.00	168
97.00	149	175.00	3767	253.00	523	371.00	367
98.00	7511	176.00	1130	254.00	417	372.00	2749
99.00	6233	177.00	1824	255.00	109056	373.00	650
100.00	580	178.00	592	256.00	16319	383.00	684
101.00	4090	179.00	6903	257.00	1146	384.00	166
102.00	277	180.00	5221	258.00	5695	390.00	277
103.00	1146	181.00	2656	259.00	1009	391.00	265
104.00	2223	182.00	346	260.00	105	392.00	174
105.00	1982	183.00	195	261.00	78	401.00	159
106.00	738	184.00	531	264.00	187	402.00	1287
107.00	32768	185.00	3741	265.00	2241	403.00	1699
108.00	5089	186.00	30536	266.00	193	404.00	606
109.00	799	187.00	8523	268.00	51	405.00	63
110.00	61784	188.00	789	270.00	178	421.00	1407
111.00	8827	189.00	1660	271.00	161	422.00	1419
112.00	1016	190.00	286	272.00	312	423.00	10729
113.00	353	191.00	778	273.00	3404	424.00	2228
114.00	54	192.00	2116	274.00	9018	425.00	287
116.00	1531	193.00	2549	275.00	47472	441.00	29208
117.00	21584	194.00	578	276.00	6632	442.00	205632

Data File: \\target_server\gg\chem\gcms-g.i\G070115.b\GD634.D

Date : 01-JUL-2015 10:43

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG165763-1,SI4462

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD634.D
Spectrum: Avg. Scans 129-131 (7.57), Background Scan 125
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1597	195.00	405	277.00	3763	443.00	39984
119.00	249	196.00	5791	278.00	734	444.00	3855
120.00	406	197.00	910	279.00	132	445.00	213
121.00	123	198.00	213696	283.00	491		
122.00	1994	199.00	14695	284.00	283		
123.00	2737	200.00	1133	285.00	823		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165450-1
Client ID: Method Blank Sample
Project:
SDG: SI4462
Lab File ID: G5107.D

Sample Date:
Received Date:
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane	U	0.18	ug/L	1	.25	0.25	0.085	0.18
1,4-Dioxane-D8		67.6	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5107.D
Report Date: 10-Jul-2015 07:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5107.D
Lab Smp Id: WG165450-1 Client Smp ID: WG165450-Blank
Inj Date : 30-JUN-2015 12:35 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165450-1,SI4462
Misc Info : WG165655,WG165450,WG165655-4,SI4462-1
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

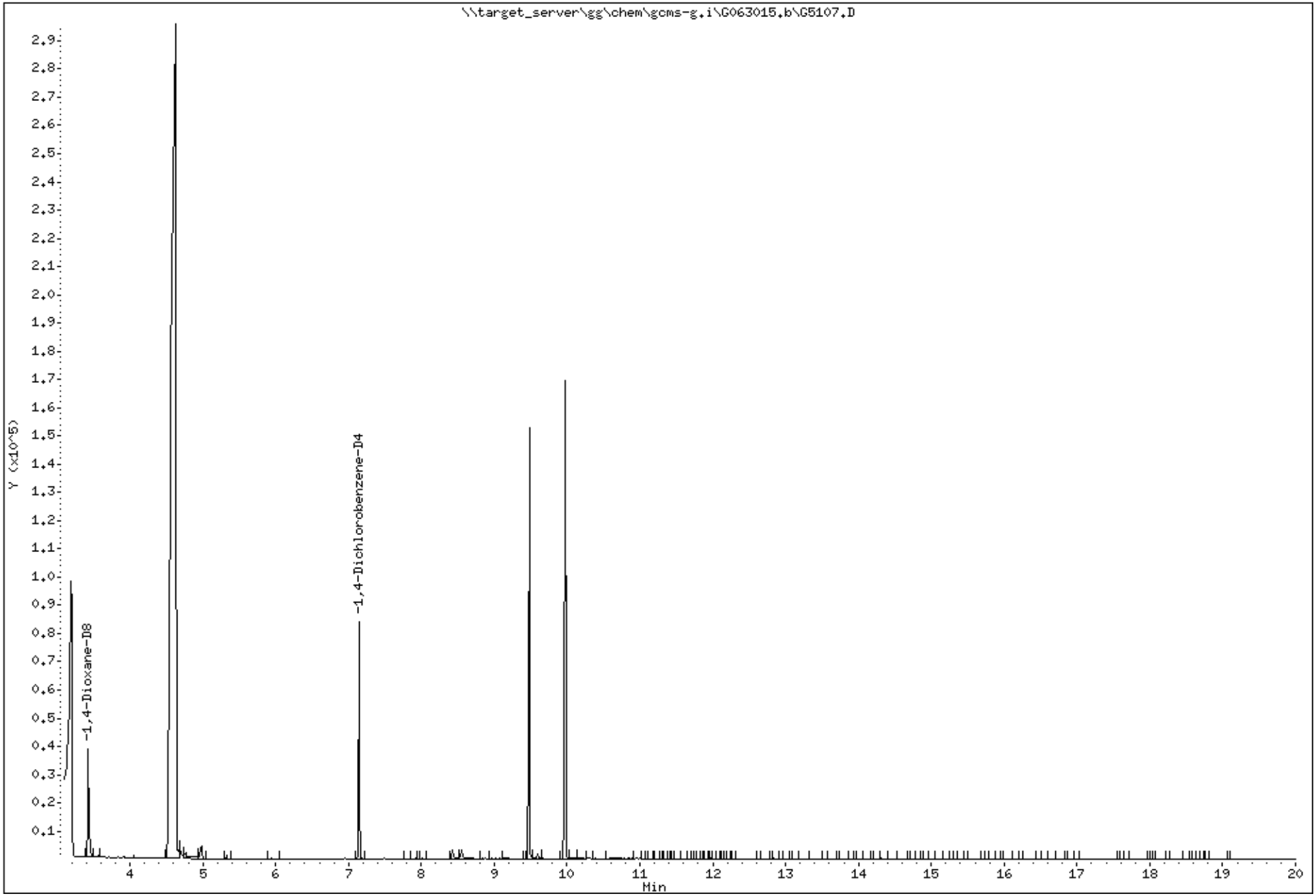
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 2 1,4-Dioxane-D8	96	3.428	3.369	(0.480)	30518	1.35302	1.35	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	52324	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5107.D
Date : 30-JUN-2015 12:35
Client ID: WG165450-Blank
Instrument: gcms-g.i
Sample Info: WG165450-1,SI4462



Katahdin Analytical Services 0000334

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165450-2
Client ID: LCS
Project:
SDG: SI4462
LCS File ID: G5108.D

Sample Date:
Received Date:
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,4-Dioxane	56.5	2.00	1.13	ug/L	10-90
1,4-Dioxane-D8	52.9				30-150

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5108.D
Report Date: 10-Jul-2015 07:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5108.D
Lab Smp Id: WG165450-2 Client Smp ID: WG165450-LCS
Inj Date : 30-JUN-2015 13:02 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165450-2,SI4462
Misc Info : WG165655,WG165450,WG165655-4,SI4462-1
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

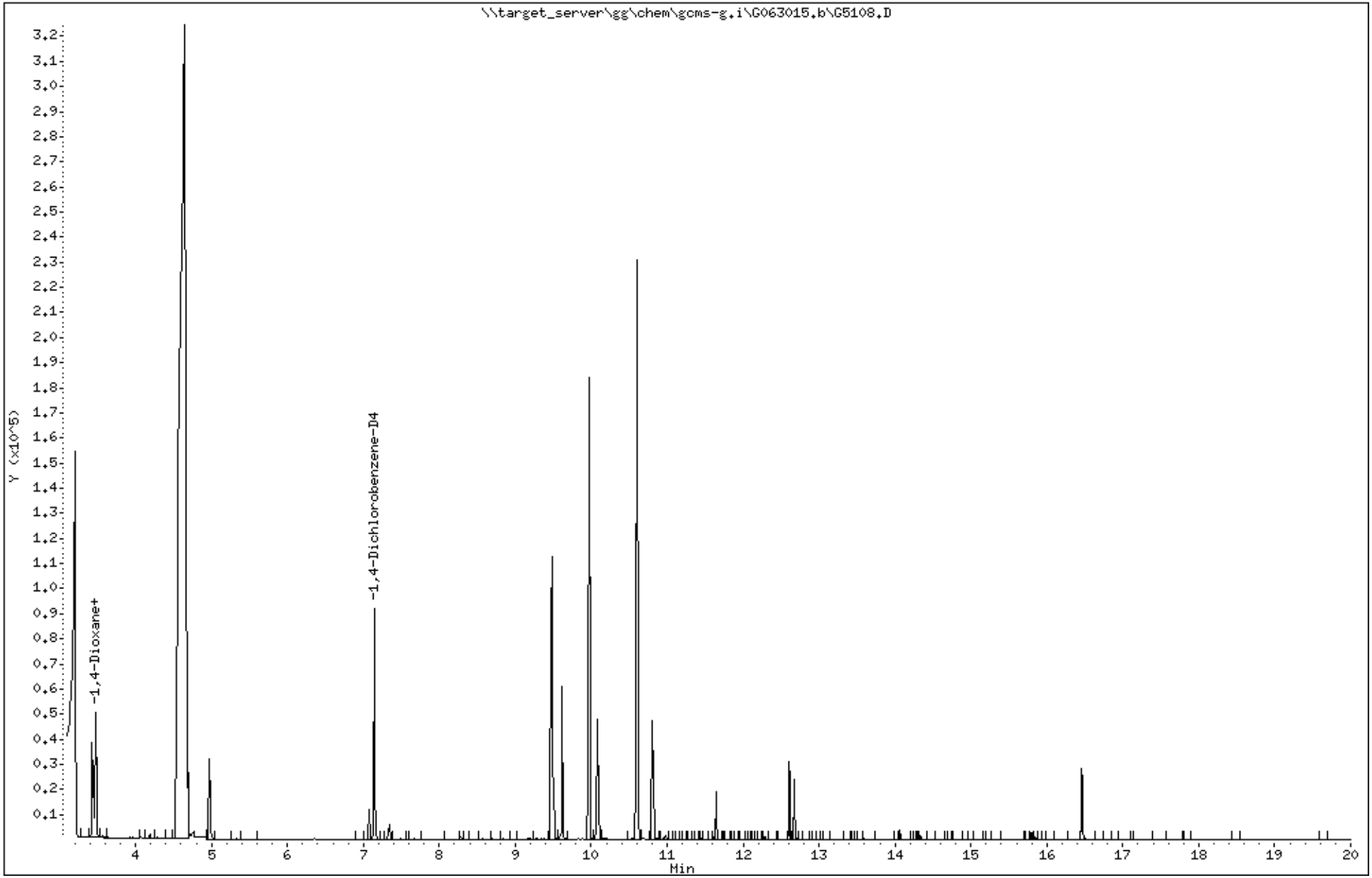
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.472	3.412	(0.486)	35398	1.12651	1.13	
$ 2 1,4-Dioxane-D8	96	3.443	3.369	(0.482)	29389	1.05782	1.06	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	64450	0.80000		(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5108.D
Date : 30-JUN-2015 13:02
Client ID: WG165450-LCS
Sample Info: WG165450-2,SI4462
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000337

Katahdin
ANALYTICAL SERVICES

Cert No E87604

MS/MSD Recovery Report

MS ID: WG165450-3
MSD ID: WG165450-4
Sample ID: SI4462-4
Client ID: RE103D1-GW-062215
Project:
SDG: SI4462
MS File ID: G5113.D

Received Date:
Extract Date: 25-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG165450
Report Date: 10-JUL-15
MSD File ID: G5114.D

Analysis Date: 30-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
1,4-Dioxane	1.90	1.90	ug/L	MM16	12.	14.	0*	0*	14	30	10-90
1,4-Dioxane-D8							47.2	59.4			30-150

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5113.D
Report Date: 10-Jul-2015 07:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5113.D
Lab Smp Id: WG165450-3 Client Smp ID: RE103D1-GW-062215MS
Inj Date : 30-JUN-2015 15:21 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165450-3,SI4462
Misc Info : WG165655,WG165450,WG165655-4,SI4462-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Cpnd Variable		Local Compound Variable

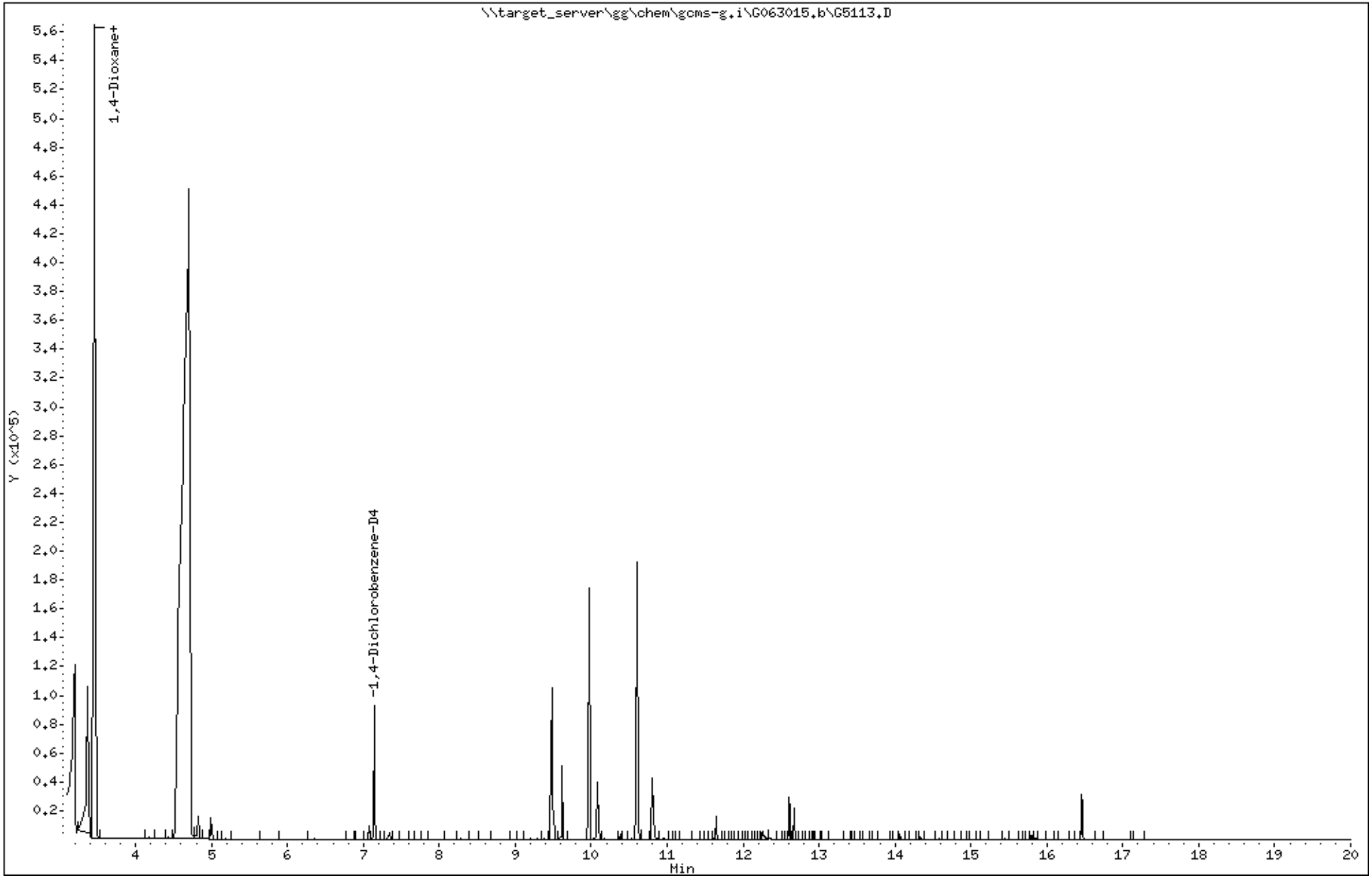
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.456	3.412	(0.484)	397915	12.8566	12.2(AR)	
$ 2 1,4-Dioxane-D8	96	3.428	3.369	(0.480)	25834	0.94405	0.899(H)	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	63481	0.80000	(aQ)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5113.D
Date : 30-JUN-2015 15:21
Client ID: RE103D1-GW-062215MS
Sample Info: WG165450-3,SI4462
Purge Volume: 1.1
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000340

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5114.D
Report Date: 10-Jul-2015 07:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G063015.b\G5114.D
Lab Smp Id: WG165450-4 Client Smp ID: RE103D1-GW-062215MS
Inj Date : 30-JUN-2015 15:49 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG165450-4,SI4462
Misc Info : WG165655,WG165450,WG165655-4,SI4462-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G063015.b\GDIOXN55.m
Meth Date : 30-Jun-2015 11:50 gcms-g.i Quant Type: ISTD
Cal Date : 30-JUN-2015 11:19 Cal File: G5105.D
Als bottle: 16 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

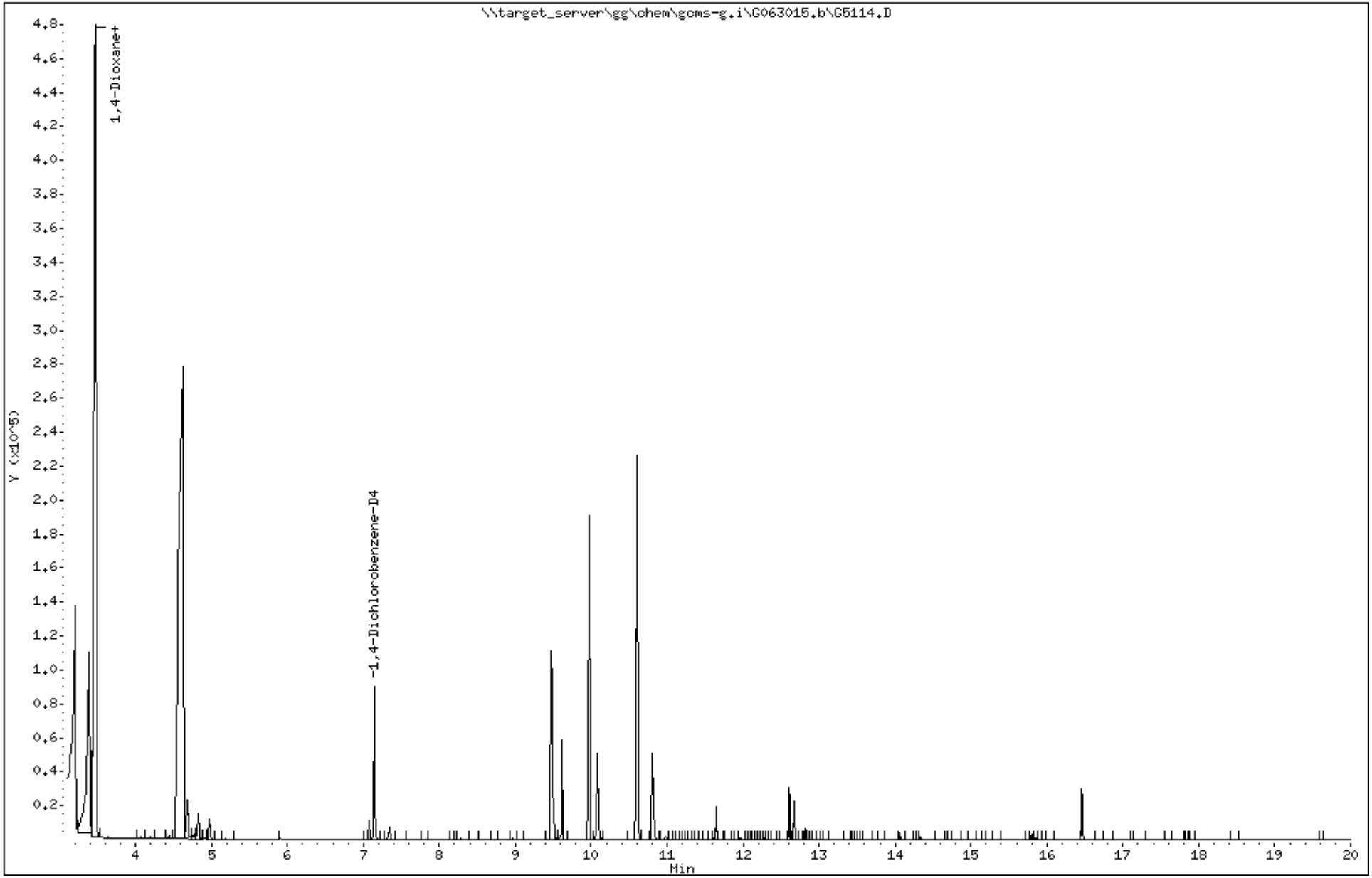
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.471	3.412	(0.486)	459763	14.8308	14.1(AR)	
$ 2 1,4-Dioxane-D8	96	3.428	3.369	(0.480)	32590	1.18901	1.13(H)	
* 3 1,4-Dichlorobenzene-D4	150	7.140	7.140	(1.000)	63584	0.80000	(aQ)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\target_server\gg\chem\gcms-g.i\G063015.b\G5114.D
Date : 30-JUN-2015 15:49
Client ID: RE103D1-GW-062215MS
Instrument: gcms-g.i
Sample Info: WG165450-4,SI4462
Purge Volume: 1.1
Operator: JCG
Column phase: RTX5-MS
Column diameter: 0.25



Katahdin Analytical Services 0000342

Logbooks and Supporting Documents

1.4 Dorma

CLLE

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP)		SW846 3520 (CLLE) ✓		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV2717		Spike ID (1): SV2714 SIM		
	Surrogate ID (2):		Spike ID (2):		
Solvents/Acid/Base	Solvent Lot # (Mecl2): DM824		H_2SO_4 Lot # —		NaOH Lot # 62534
Consumables	Filter Paper Lot # 96151811		$NaSO_4$ Lot # 27965002		
Nitrogen Water Bath Temperature 86°C			pH (1st Extraction) ≥11		pH (2nd Extraction)
Prep Start Time: 11:30	Prep End Time: 12:30		CLLE Start Time: 12:30		CLLE End Time: 6:30

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV240	Initials	Comments
6-25-15	TE	W6165450-1	1000	1.0	NR		✓	1mL	6-26-15	03	WR	R323139
		-2	1000		1.0					4		
		-3	1050							5		MS
		-4	1050							6		SI4462-4W MSD 1-40

Wrs 6-26-15

EX-007 – Revision 2 – 12/05/2013

QAEX284

0000090

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV240	Initials	Comments
6-25-15	TE	SI4462-1D	1040	1	NR		✓	1mL	6-26-15	07	WRS	
		-2D	1060							8		
		-3D	1020							9		
		-4L	1060							10		MS/MSD
		-5D	1050							E1		
		-6E	1050							2		
		-7E	1060							3		
		-11D	1030							4		
		-12E	1060							5		
		SI4496-1D	1050							6		
		-2E	1040							7		
		-3E	1050							8		

Wrs 6-26-15

Reviewed By_____ Date_____

EX-007 – Revision 2 – 12/05/2013

QAEX284

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-G

DATE OF DFTPP INJECTION: 063015

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG165555-1	50ng DFTPP	GD633	1	1	DFTPPSIM	2.0	JLM	OK
-4	SSTD1.00 G0630	G5100		2	GD10KN55			✓
-2	0.25	01		3				✓
-3	0.5	02		4				✓
-5	3.0	03		5				✓
-6	7.0	04		6				✓
-7	10	05		7				✓
-8	(WD)	06		8				OK
3520	WG165450-1	07		9				OK
	-2	08		10				OK
	SI4462-1	09		11				OK
	-2	10		12				OK
	-3	11		13				OK
	-4	12		14				OK DL1:3
	WG165450-B	13		15				OK
	-4	14		16				OK
	SI4462-5	15		17				OK
	-6	16		18				OK
	-7	17		19				OK
	-11	18		20				OK DL1:2
	-12	19		21				OK
	SI4496-1	20		22				OK
	-2	21		23				OK
	-3	22		24				OK
	SI4462-4DL	23	3	25				OK 100/300
								100/0615

STANDARD	CODE
DFTPP	52611
CAL. STD.	52614
IS MIX	52639

REVIEWED AND APPROVED BY: _____
DATE: _____

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-G

DATE OF DFTPP INJECTION: 070115

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG165763-1	50 ng DFTPP	GD634	1	1	DFTPPSIM	2.0	JLM	OK
-2	55TD1.00 G0701	G5124		2	GD10XN55			OK
3520	WG165690-1	25		3				OK
	-2	26		4				OK
	-3	27		5				OK
	SI4462-1DL	28	2	6				OK 100/200
	SI4520-3	29	1	7				OK
	SI4556-1	30		8				OK
	-2	31		9				OK
	-3	32		10				OK
	-4	33		11				OK
	-5	34		12				OK
	-6	35		13				OK
	-7	36		14				OK
	-8	37		15				OK
	SI4652-1	38		16				OK

STANDARD	CODE
DFTPP	52611
CAL. STD.	52614
IS MIX	52638

REVIEWED AND APPROVED BY: _____
DATE: _____