N90845.AR.001859
NWIRP BETHPAGE
5090.3a

VALIDATED DATA PACKAGE, SI4557, NWIRP BETHPAGE NY
7/23/2015
KATAHDIN ANALYTICAL SERVICES

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. 42215 SDG NO. S14587 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	TO	CHECK LAB	EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)	0000001	0000003	✓	
2. **SDG Case Narrative**	0000006	0000007	✓	
3. **SDG Cover Sheet/Traffic Report**	0000004	0000005	✓	
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000017	0000019	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	17 7-25-15			
Method Blank Summary (Form IV VOA)	0000020	0000021	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000022	0000024	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000025	0000026	✓	
b. Sample Data	0000026	0000111		
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)	0000112	0000177		
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	0000178	0000186	✓	
Blank Data	0000187	0000~~217~~ 195	✓	
Martix Spike/Matrix Spike Duplicate Data	0000196	0000217	✓	

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

CASE NO. VOE15 SDG NO. S1415S7 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 NA	0000218	0000221	✓	
Internal sample and sample extract transfer chain-of-custody records	0000013	0000016	✓	
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	0000010	0000010	✓	
Sample Tags				
Sample Log-in Sheet (Lab & DC1)	NA	NA	NA	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000009	0000009	✓	
Login Chain of Custody	0000011	0000012	✓	
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:**				

FORM DC-2-4 OLM04.2

0000002

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

CASE NO. WE15 SDG NO. S14557 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	[signature] (Signature)	Heather Menzlom (Printed Name/Title)	7-23-15 (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
SI4557

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

0050004

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ENSAFE
NAVY CLEAN WE15-03-06 NWIRP BETHPAGE, NY
SI4557

Sample Receipt

The following samples were received on June 26, 2015 and were logged in under Katahdin Analytical Services work order number SI4557 for a hardcopy due date of July 15, 2015.

KATAHDIN Sample No.	AECOM Sample Identification
SI4557-1	VPB159-GW-062415-218-220
SI4557-2	VPB159-GW-062515-238-240
SI4557-3	VPB159-GW-062415-238-260
SI4557-4	VPB159-TB-062415
SI4557-5	VPB159-GW-062515-278-280
SI4557-6	VPB159-GW-062515-298-300
SI4557-7	VPB159-GWD-062515
SI4557-8	VPB159-GW-062515-318-320
SI4557-9	VPB159-GW-062515-338-340

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.

Some of the client IDs on the Chain of Custody exceed the 19-character limit of the Katahdin Analytical Information Management System. Therefore, the first characters "VPB" and the middle characters "GW-" in the client ID for sample SI4557- 1, 2, 3, 5, 6, 8, and 9 were omitted on all forms.

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 SI4557 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.

Sample SI4557-3 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request.

8260B Analysis

Sample SI4557-6 was manually integrated for the target analyte freon-113. 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 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.

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.

Leslie Dimond
07.2315

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:	JC	Sampled By:	Client
Project:		KIMS Entry By:	AP	Delivered By:	FedEx
KAS Work Order#:	S14557	KIMS Review By:		Received By:	AP
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	6/26/15 0900

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. frozen	✓				Temp (°C): 4.2
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.

CCCCCC9

S14557

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No.: | Page 1 of 1

Project Name: NW IRP Bethpage | PO No.: | Project No. 60266126 | Phase FT

Site Location: UPB-159

CTO No. | RC Project Manager: Brian Caldwell

Sampler/Site Phone#: Vin Vonnechio / 516-680-1001

Lab Name: Katahdin Analytical | Turnaround Time(specify): Standard

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

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									Extra Volume for MS/MSD	HOLD
								(3)→	HA										
	UPB159-GW-062415-218-220		06/24/15	940	WG	N	N	3	3										
	UPB159-GW-062415-238-240		06/24/15	1135	WG	N	N	3	3										
	UPB159-GW-062415-258-260		06/24/15	1315	WG	N	N	3	3										
	UPB159-GW-MS/MSD-062415-258-260		06/24/15	1315	WG	N	N	6	6										
	UPB159-TB-062415		06/24/15	900	WQ	TB	N	3	3										
	UPB159-GW-062515-278-280		06/25/15	935	WG	N	N	3	3										
	UPB159-GW-062515-298-300		06/25/15	1125	WG	N	N	3	3										
	UPB159-GWD-062515		06/25/15	–	WG	N	N	3	3										
	UPB159-GW-062515-318-320		06/25/15	1340	WG	N	N	3	3										
	UPB159-GW-062515-338-340		06/25/15	1520	WG	N	N	3	3										

Field **Comments:**

Lab **Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1 [signature]	6/25/15	1630	1 [signature]	6/26/15	0900
2			2		
3			3		

Samples Iced?(check) Yes_____ No_____

Method of Shipment:

Airbill No:

Date Shipped:

(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

000010

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jun. 29, 2015
09:19 AM

Login Number: SI4557

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. Must use soxhlet for PCB extraction.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	4.2
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	AP
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
SI4557-1	159-062415-218-220	24-JUN-15 09:40		26-JUN-15		**30-JUN-15**	15-JUL-15	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***	
Aqueous S	SW8260-S	08-JUL-15	40mL Vial+HCl				**VPB159-GW-062415-218-220**	
SI4557-2	159-062415-238-240	24-JUN-15 11:35		26-JUN-15		**30-JUN-15**	15-JUL-15	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***	
Aqueous S	SW8260-S	08-JUL-15	40mL Vial+HCl				**VPB159-GW-062415-238-240**	
SI4557-3	159-062415-258-260	24-JUN-15 13:15		26-JUN-15		**30-JUN-15**	15-JUL-15	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***	
Aqueous S	SW8260-S	08-JUL-15	40mL Vial+HCl				**(MS/MSD) VPB159-GW-062415-258-260**	
SI4557-4	VPB159-TB-062415	24-JUN-15 00:00		26-JUN-15		**30-JUN-15**	15-JUL-15	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***	
Aqueous S	SW8260-S	08-JUL-15	40mL Vial+HCl					
SI4557-5	159-062515-278-280	25-JUN-15 09:35		26-JUN-15		**30-JUN-15**	15-JUL-15	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***	
Aqueous S	SW8260-S	09-JUL-15	40mL Vial+HCl				**VPB159-GW-062515-278-280**	
SI4557-6	159-062515-298-300	25-JUN-15 11:25		26-JUN-15		**30-JUN-15**	15-JUL-15	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***	
Aqueous S	SW8260-S	09-JUL-15	40mL Vial+HCl				**VPB159-GW-062515-298-300**	
SI4557-7	VPB159-GWD-062515	25-JUN-15 00:00		26-JUN-15		**30-JUN-15**	15-JUL-15	
Matrix	***Product***	***Hold Date (shortest)***	***Bottle Type***		***Bottle Count***		***Comments***	
Aqueous S	SW8260-S	09-JUL-15	40mL Vial+HCl					

06/29/15

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 29, 2015
09:19 AM

Login Number: SI4557

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
SI4557-8	159-062515-318-320	25-JUN-15 13:40	26-JUN-15		**30-JUN-15**	15-JUL-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	09-JUL-15	40mL Vial+HCl		**VPB159-GW-062515-318-320**

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SI4557-9	159-062515-338-340	25-JUN-15 15:20	26-JUN-15		**30-JUN-15**	15-JUL-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	09-JUL-15	40mL Vial+HCl		**VPB159-GW-062515-338-340**

Total Samples: *9* ***Total Analyses:*** *9*

qp
06.29.15

000012

Katahdin Analytical Services, Inc.

Container Transfer History for SI4557

Samplenum SI4557-1

Container Id SI4557-1A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-1B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-1C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Samplenum SI4557-2

Container Id SI4557-2A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-2B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-2C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Samplenum SI4557-3

Container Id SI4557-3A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-3B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
30-JUN-15 12:27	VOA_WALK-IN	GC/MS	EEVERETT	N	
01-JUL-15 14:16	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-3C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
30-JUN-15 12:27	VOA_WALK-IN	GC/MS	EEVERETT	N	
01-JUL-15 14:16	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-3D **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Katahdin Analytical Services, Inc.

Container Transfer History for SI4557

Samplenum SI4557-3

Container Id SI4557-3E **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-3F **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-3G **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-3H **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-3I **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Samplenum SI4557-4

Container Id SI4557-4A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-4B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-4C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Samplenum SI4557-5

Container Id SI4557-5A **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-5B **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-5C **Containertype 40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Samplenum SI4557-6

Katahdin Analytical Services, Inc.

Container Transfer History for SI4557

Samplenum SI4557-6

Container Id SI4557-6A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-6B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-6C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Samplenum SI4557-7

Container Id SI4557-7A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-7B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-7C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Samplenum SI4557-8

Container Id SI4557-8A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-8B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Container Id SI4557-8C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

Samplenum SI4557-9

Container Id SI4557-9A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments

0000015

Katahdin Analytical Services, Inc.

Container Transfer History for SI4557

Samplenum SI4557-9

Container Id SI4557-9A **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
29-JUN-15 13:01	VOA_WALK-IN	GC/MS	EEVERETT	N	
30-JUN-15 15:31	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-9B **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	
30-JUN-15 12:27	VOA_WALK-IN	GC/MS	EEVERETT	N	
01-JUL-15 14:16	GC/MS	VOA_WALK-IN	EEVERETT	N	

Container Id SI4557-9C **Containertype** **40mL Vial+HCl** **Matrix AQ**

Product *SW8260-S*

Transferdate	From	To	Analyst	Custody Break	Comments
26-JUN-15 12:09	LOGIN	VOA_WALK-IN	GNICKERSON	N	

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:** SI4557

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
159-062415-218-220	SI4557-1		98.6		97.0		104.		104.	
159-062415-238-240	SI4557-2		86.0		89.7		96.6		93.5	
159-062415-258-260	SI4557-3		98.6		100.		108.		104.	
VPB159-TB-062415	SI4557-4		92.2		92.6		101.		98.8	
159-062515-278-280	SI4557-5		89.4		93.8		99.0		95.4	
159-062515-298-300	SI4557-6		93.5		96.8		104.		100.	
VPB159-GWD-062515	SI4557-7		92.4		96.1		103.		97.0	
159-062515-318-320	SI4557-8		88.0		90.3		97.5		96.8	
159-062515-338-340	SI4557-9		92.3		95.6		101.		100.	
159-062515-338-340	SI4557-9DL		88.5		87.9		97.8		94.6	
Laboratory Control S	WG165671-1		91.5		93.8		95.2		97.1	
Method Blank Sample	WG165671-2		95.2		97.6		104.		103.	
Laboratory Control S	WG165740-1		94.6		94.0		95.5		96.8	
Method Blank Sample	WG165740-2		93.8		94.4		102.		100.	
Matrix Spike	WG165740-7		92.9		93.5		98.7		97.0	
Matrix Spike Duplica	WG165740-8		89.8		87.5		89.2		93.8	

		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 : SI4557
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG165671-2
Lab File ID : P1667.D
Date Analyzed : 29-JUN-15
Instrument ID : GCMS-P
Time Analyzed : 13:36
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	WG165671-1	P1664.D	06/29/15	12:04
VPB159-TB-062415	SI4557-4	P1669.D	06/29/15	14:29
159-062515-298-300	SI4557-6	P1671.D	06/29/15	15:21
159-062415-218-220	SI4557-1	P1673.D	06/29/15	16:13
159-062415-238-240	SI4557-2	P1674.D	06/29/15	16:39
159-062415-258-260	SI4557-3	P1675.D	06/29/15	17:05
159-062515-278-280	SI4557-5	P1676.D	06/29/15	17:31
VPB159-GWD-062515	SI4557-7	P1677.D	06/29/15	17:57
159-062515-318-320	SI4557-8	P1678.D	06/29/15	18:26
159-062515-338-340	SI4557-9	P1679.D	06/29/15	18:55

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : SI4557
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG165740-2
Lab File ID : P1696.D
Date Analyzed : 30-JUN-15
Instrument ID : GCMS-P
Time Analyzed : 13:02
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	WG165740-1	P1693.D	06/30/15	11:27
159-062515-338-340	SI4557-9DL	P1700.D	06/30/15	14:47
Matrix Spike	WG165740-7	P1711.D	06/30/15	19:43
Matrix Spike Duplica	WG165740-8	P1712.D	06/30/15	20:11

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 : SI4557
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 : PB300.D
Instrument ID : GCMS-P

SDG : SI4557
Date Analyzed : 29-JUN-15
Time Analyzed : 10:46
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.2		
75	30.0 - 60.0% of mass 95	52.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.5		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	60.4		
175	5.0 - 9.0% of mass 174	4.4	7.22	1
176	95.0 - 101.0% of mass 174	59.8	98.95	1
177	5.0 - 9.0% of mass 176	3.8	6.29	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	WG165671-4	P1663.D	06/29/15	11:14
Laboratory Control S	WG165671-1	P1664.D	06/29/15	12:04
Method Blank Sample	WG165671-2	P1667.D	06/29/15	13:36
VPB159-TB-062415	SI4557-4	P1669.D	06/29/15	14:29
159-062515-298-300	SI4557-6	P1671.D	06/29/15	15:21
159-062415-218-220	SI4557-1	P1673.D	06/29/15	16:13
159-062415-238-240	SI4557-2	P1674.D	06/29/15	16:39
159-062415-258-260	SI4557-3	P1675.D	06/29/15	17:05
159-062515-278-280	SI4557-5	P1676.D	06/29/15	17:31
VPB159-GWD-062515	SI4557-7	P1677.D	06/29/15	17:57
159-062515-318-320	SI4557-8	P1678.D	06/29/15	18:26
159-062515-338-340	SI4557-9	P1679.D	06/29/15	18:55

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : PB301.D
Instrument ID : GCMS-P

SDG : SI4557
Date Analyzed : 30-JUN-15
Time Analyzed : 09:55
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.1		
75	30.0 - 60.0% of mass 95	54.0		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.3		
173	Less than 2.0% of mass 174	0.3	0.53	1
174	Greater than 50.0% of mass 95	60.8		
175	5.0 - 9.0% of mass 174	3.3	5.48	1
176	95.0 - 101.0% of mass 174	58.9	96.89	1
177	5.0 - 9.0% of mass 176	3.0	5.13	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	WG165740-4	P1691.D	06/30/15	10:19
Laboratory Control S	WG165740-1	P1693.D	06/30/15	11:27
Method Blank Sample	WG165740-2	P1696.D	06/30/15	13:02
159-062515-338-340	SI4557-9DL	P1700.D	06/30/15	14:47
Matrix Spike	WG165740-7	P1711.D	06/30/15	19:43
Matrix Spike Duplica	WG165740-8	P1712.D	06/30/15	20:11

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: SI4557
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	WG165671-4	373024		8.72		680663		9.57		607035		13.93	
Laboratory Control S	WG165671-1	384858		8.72		705442		9.57		626717		13.93	
Method Blank Sample	WG165671-2	372538		8.72		677550		9.58		598319		13.93	
VPB159-TB-062415	SI4557-4	389498		8.72		707333		9.58		623283		13.93	
159-062515-298-300	SI4557-6	374873		8.72		691182		9.58		611041		13.93	
159-062415-218-220	SI4557-1	366514		8.72		668798		9.58		590309		13.93	
159-062415-238-240	SI4557-2	380636		8.72		699174		9.58		610484		13.93	
159-062415-258-260	SI4557-3	361209		8.72		660899		9.58		587434		13.93	
159-062515-278-280	SI4557-5	361329		8.72		673877		9.58		594407		13.93	
VPB159-GWD-062515	SI4557-7	380574		8.72		700194		9.58		609586		13.94	
159-062515-318-320	SI4557-8	377583		8.72		675936		9.58		601225		13.94	
159-062515-338-340	SI4557-9	372284		8.72		678350		9.58		599846		13.93	
Continuing Calibrati	WG165740-4	345634		8.71		623398		9.58		568763		13.93	
Laboratory Control S	WG165740-1	377800		8.72		688345		9.58		614303		13.94	
Method Blank Sample	WG165740-2	365707		8.72		654933		9.58		588578		13.93	
159-062515-338-340	SI4557-9DL	360112		8.72		652765		9.58		586044		13.94	
Matrix Spike	WG165740-7	387613		8.72		705914		9.58		620780		13.93	
Matrix Spike Duplica	WG165740-8	392725		8.72		702976		9.58		639112		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: SI4557
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	WG165671-4	333707		16.92	
Laboratory Control S	WG165671-1	345229		16.92	
Method Blank Sample	WG165671-2	330431		16.92	
VPB159-TB-062415	SI4557-4	340327		16.93	
159-062515-298-300	SI4557-6	337261		16.93	
159-062415-218-220	SI4557-1	323026		16.92	
159-062415-238-240	SI4557-2	335383		16.93	
159-062415-258-260	SI4557-3	323937		16.92	
159-062515-278-280	SI4557-5	325244		16.93	
VPB159-GWD-062515	SI4557-7	334649		16.92	
159-062515-318-320	SI4557-8	338529		16.92	
159-062515-338-340	SI4557-9	334550		16.93	
Continuing Calibrati	WG165740-4	315236		16.92	
Laboratory Control S	WG165740-1	340127		16.92	
Method Blank Sample	WG165740-2	323069		16.92	
159-062515-338-340	SI4557-9DL	322101		16.92	
Matrix Spike	WG165740-7	350952		16.92	
Matrix Spike Duplica	WG165740-8	352435		16.93	

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.

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: SI4557-1
Client ID: 159-062415-218-220
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1673.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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		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	3.8	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	J	0.67	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane		1.1	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		2.3	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.72	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	J	0.36	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		3.4	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: SI4557-1
Client ID: 159-062415-218-220
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1673.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)		2.3	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		104.	%					
1,2-Dichloroethane-d4		104.	%					
Dibromofluoromethane		97.0	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1673.D
Report Date: 30-Jun-2015 10:42

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1673.D
Lab Smp Id: SI4557-1 Client Smp ID: 159-062415-218-220
Inj Date : 29-JUN-2015 16:13 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-1
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

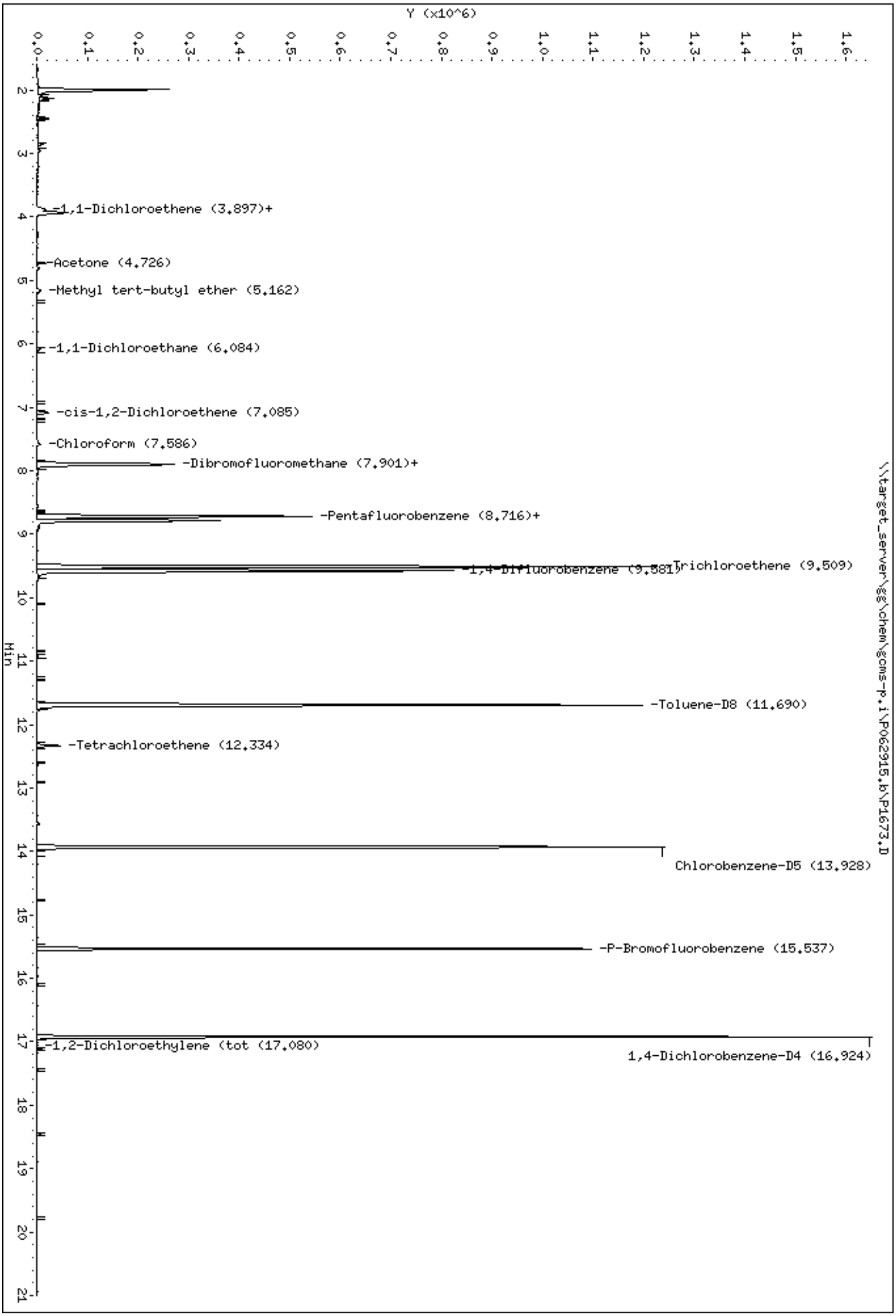
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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	3.896	3.889	(0.447)	4114	1.09305	1.1	
	11 Freon-113	151	3.932	3.939	(0.451)	20215	8.42283	8.4	
	15 Acetone	43	4.811	4.804	(0.552)	6386	3.81067	3.8(a)	
	19 Methyl tert-butyl ether	73	5.162	5.147	(0.592)	8418	0.67045	0.67(a)	
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	8356	1.07278	1.1	
	29 cis-1,2-Dichloroethene	96	7.085	7.085	(0.812)	11488	2.34157	2.3	
M	30 1,2-Dichloroethylene (total)	96				11488	2.34157	2.3	
	34 Chloroform	83	7.585	7.578	(0.870)	5754	0.72297	0.72(a)	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	192282	48.5017	48.5	
	38 1,1,1-Trichloroethane	97	7.922	7.922	(0.908)	2345	0.35519	0.36(a)	
*	42 Pentafluorobenzene	168	8.722	8.715	(1.000)	366514	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	289162	51.9376	51.9	
	48 Trichloroethene	95	9.509	9.509	(0.993)	439511	102.555	102	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	668798	50.0000		
$	55 Toluene-D8	98	11.690	11.690	(1.220)	772619	52.2219	52.2	
	59 Tetrachloroethene	164	12.333	12.333	(0.886)	9967	3.40039	3.4	
*	66 Chlorobenzene-D5	117	13.928	13.935	(1.000)	590309	50.0000		
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	331621	49.2756	49.3	
*	91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	323026	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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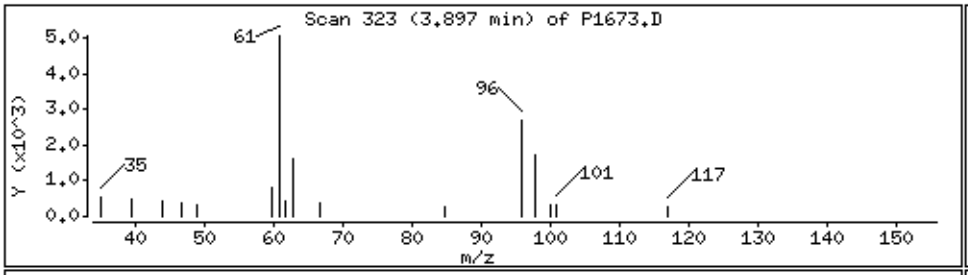
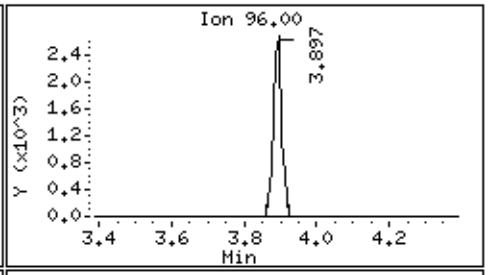
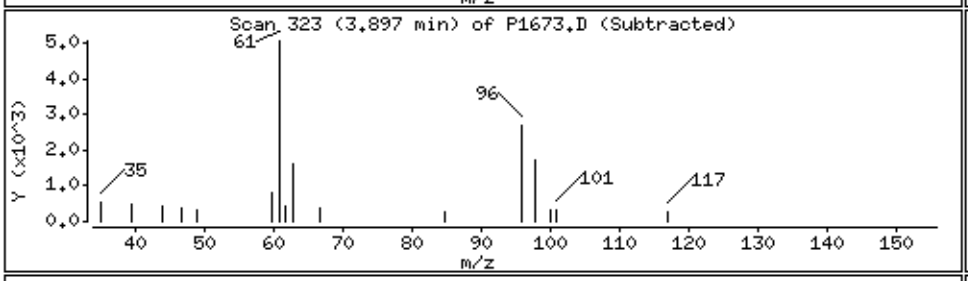
Date : 29-JUN-2015 16:13
Client ID: 159-062415-218-220
Sample Info: SI4557-1
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1673.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.897)+
-Acetone (4.726)
-Methyl tert-butyl ether (5.162)
-1,1-Dichloroethane (6.084)
-cis-1,2-Dichloroethene (7.085)
-Chloroform (7.586)
-Dibromofluoromethane (7.901)+
-Pentafluorobenzene (8.716)+
-1,4-Difluorobenzene (9.581)
Trichloroethene (9.509)
-Toluene-D8 (11.690)
-Tetrachloroethene (12.334)
Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.924)

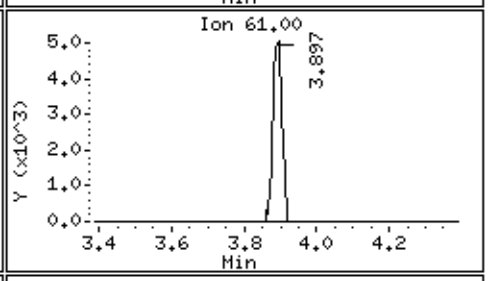
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1673.D
Date : 29-JUN-2015 16:13
Client ID: 159-062415-218-220 Instrument: gcms-p.i
Sample Info: SI4557-1

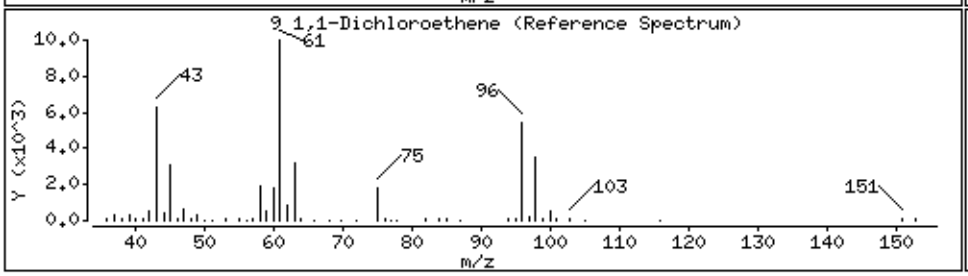
9 1,1-Dichloroethene Concentration: 1.1 ug/l

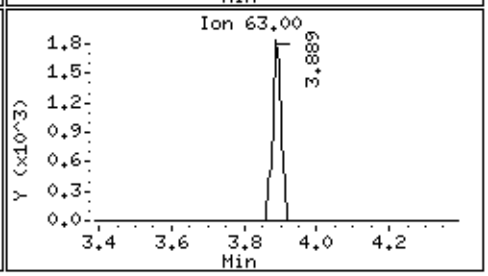




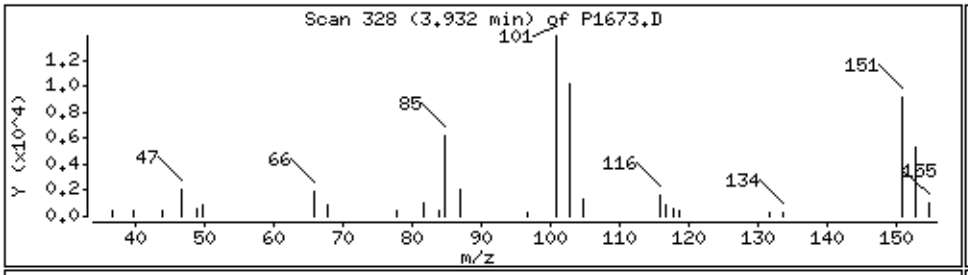


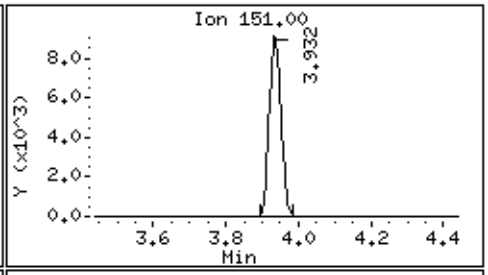


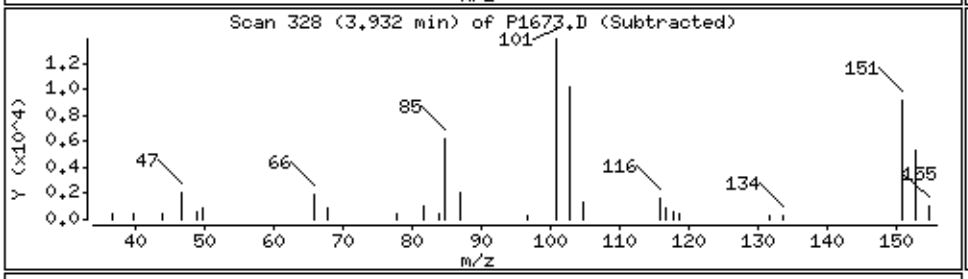


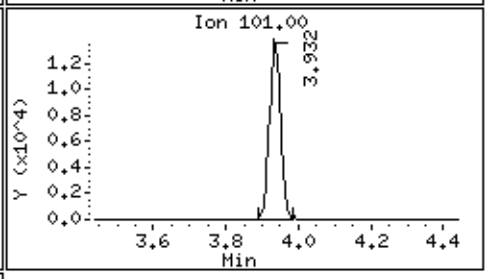


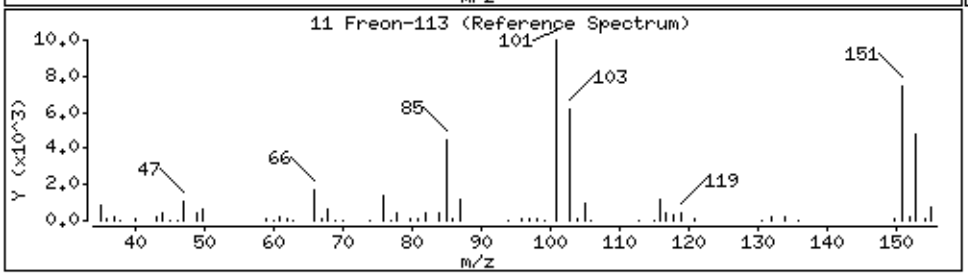
11 Freon-113 Concentration: 8.4 ug/l











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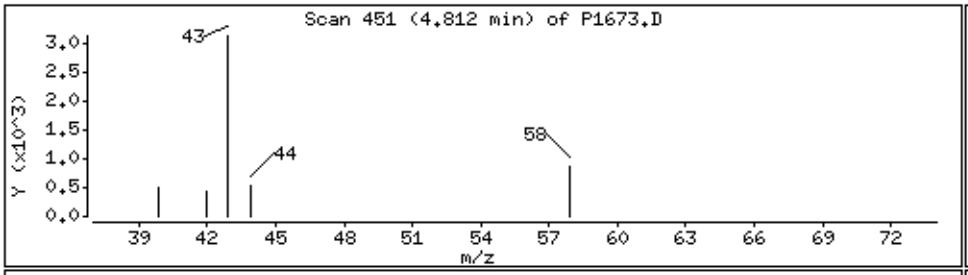
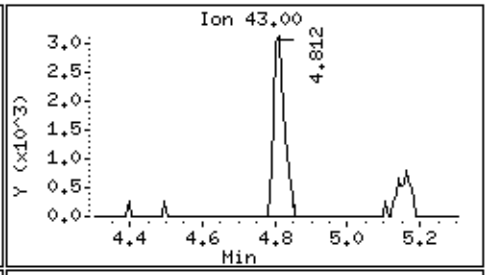
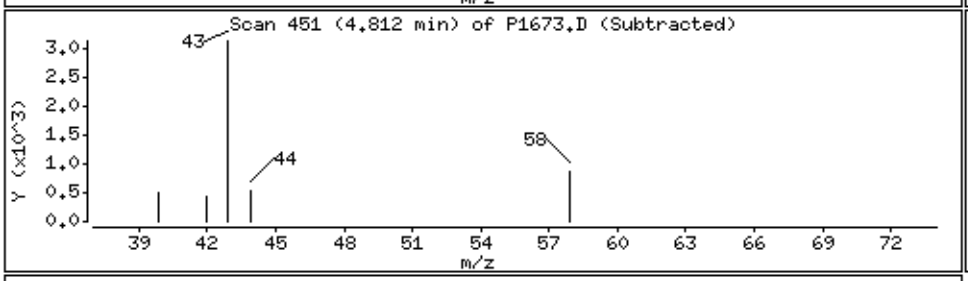
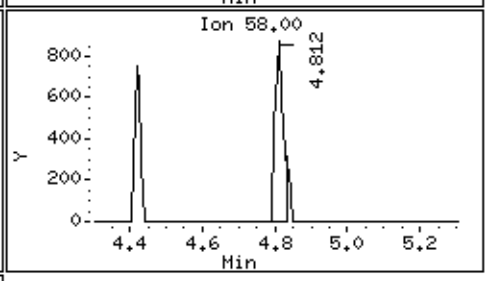
Date : 29-JUN-2015 16:13
Client ID: 159-062415-218-220 Instrument: gcms-p.i
Sample Info: SI4557-1

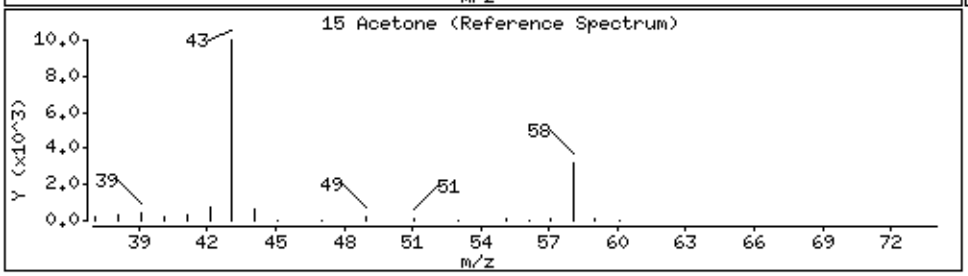
15 Acetone Concentration: 3.8 ug/l



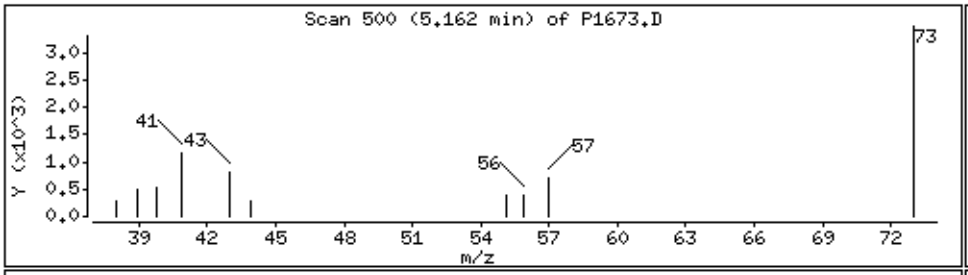


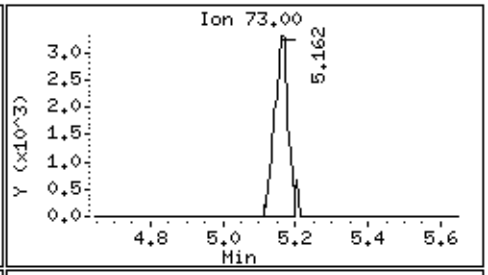


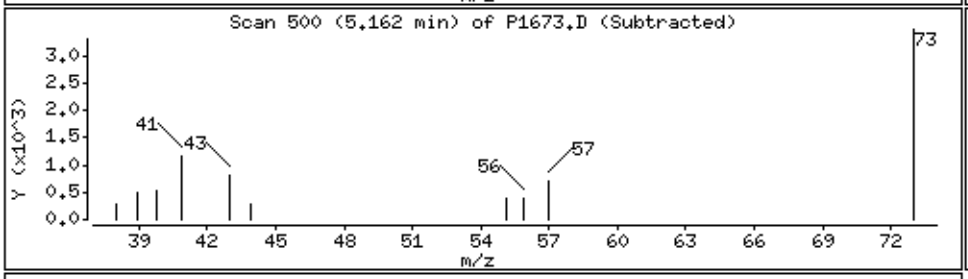


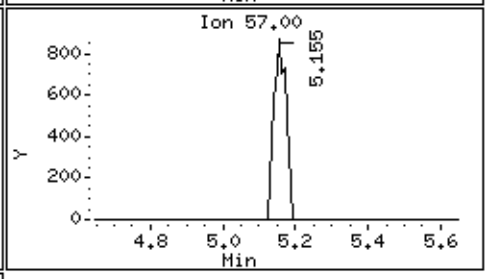


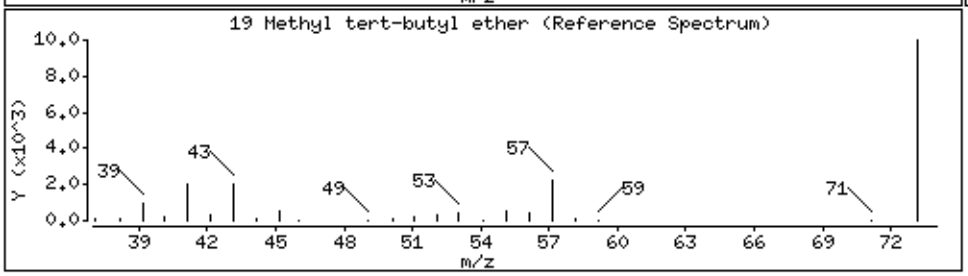
19 Methyl tert-butyl ether Concentration: 0.67 ug/l











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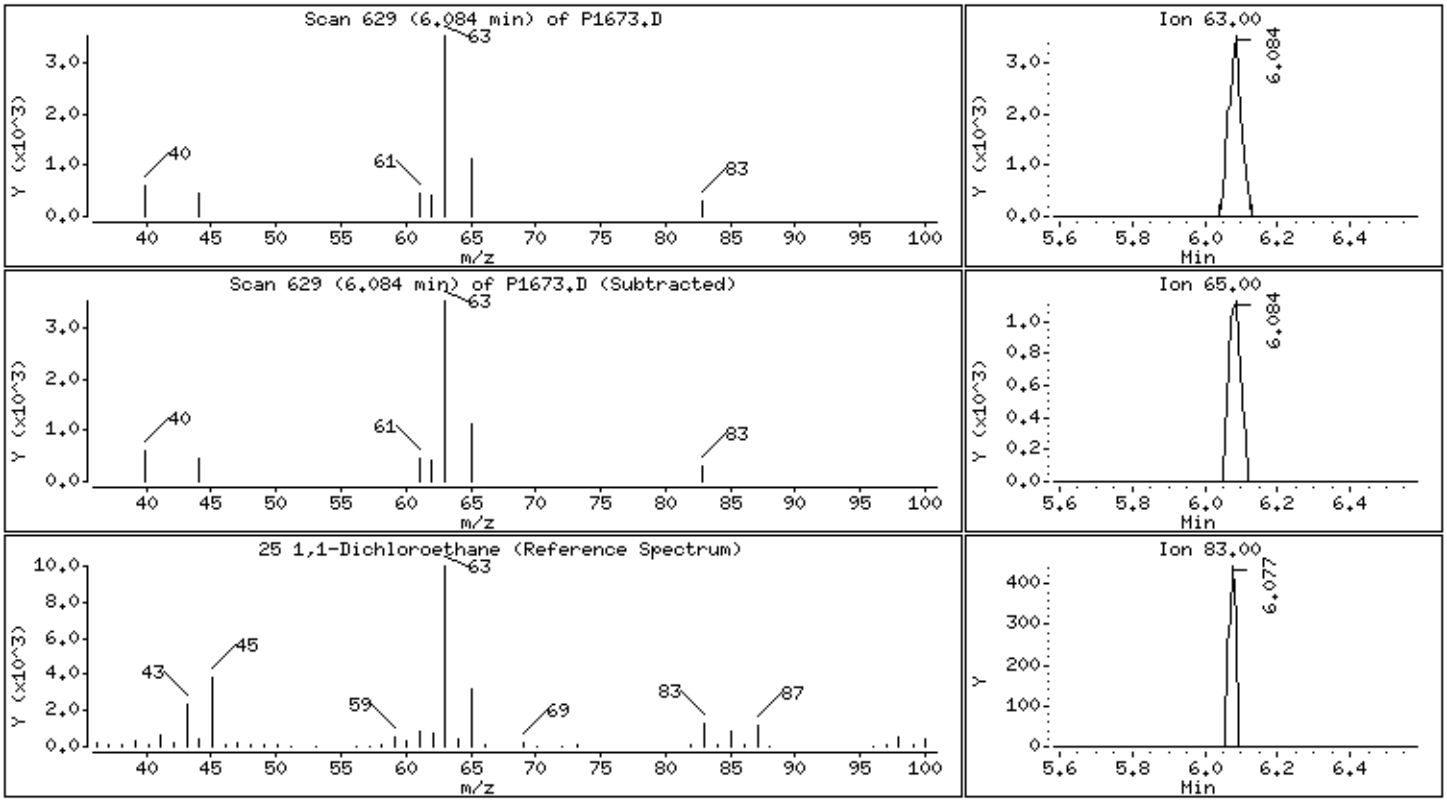
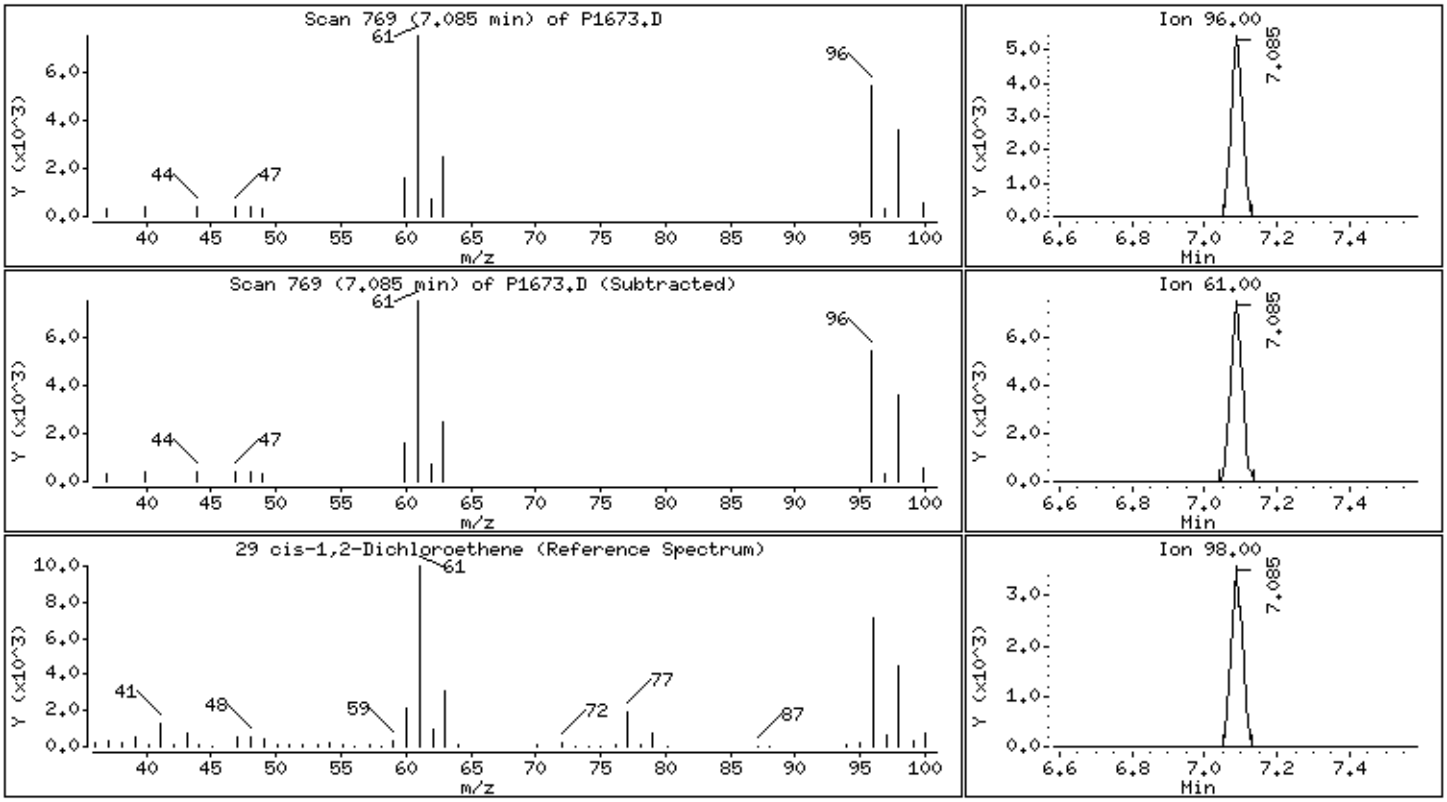
Date : 29-JUN-2015 16:13
Client ID: 159-062415-218-220 Instrument: gcms-p.i
Sample Info: SI4557-1

25 1,1-Dichloroethane Concentration: 1.1 ug/l

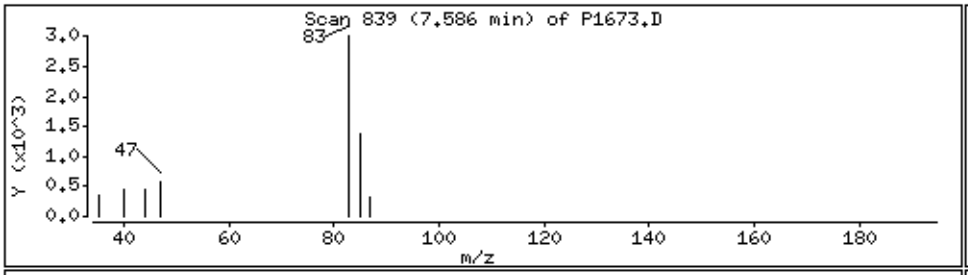


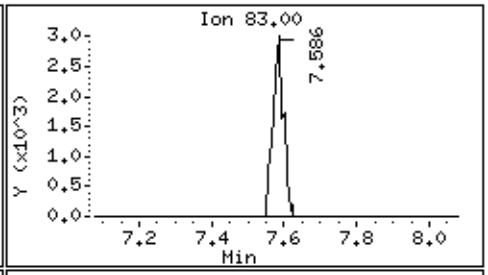
29 cis-1,2-Dichloroethene Concentration: 2.3 ug/l

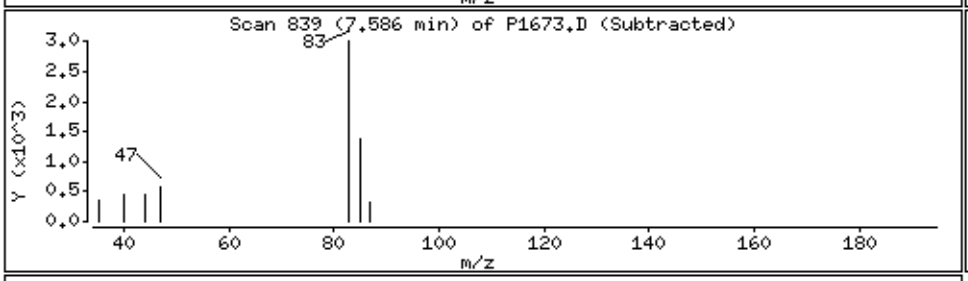


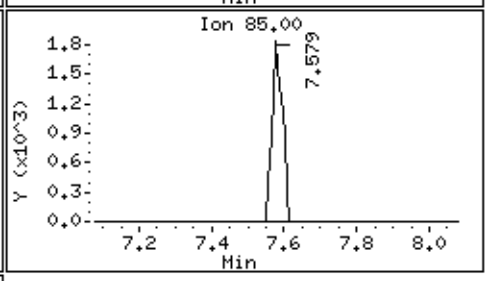
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1673.D
Date : 29-JUN-2015 16:13
Client ID: 159-062415-218-220 Instrument: gcms-p.i
Sample Info: SI4557-1

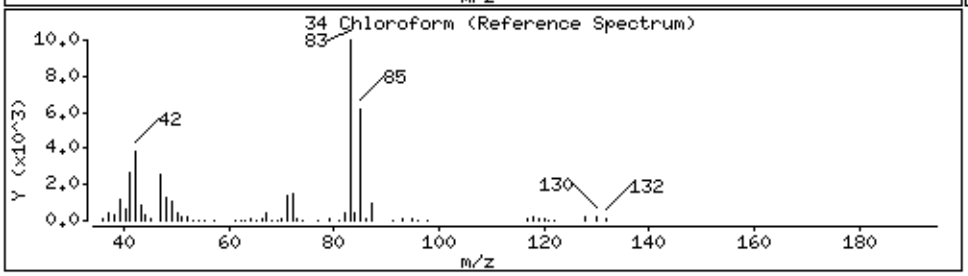
34 Chloroform Concentration: 0.72 ug/l



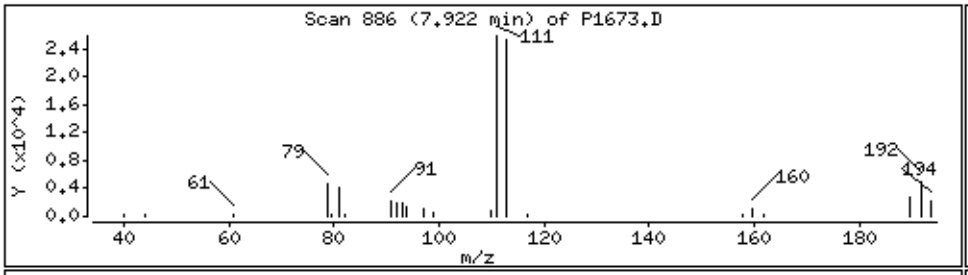


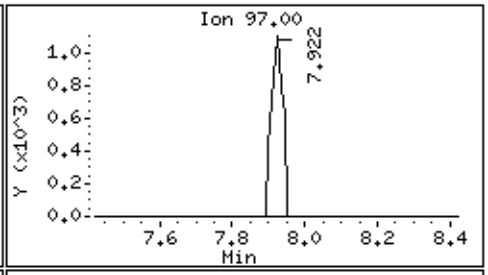


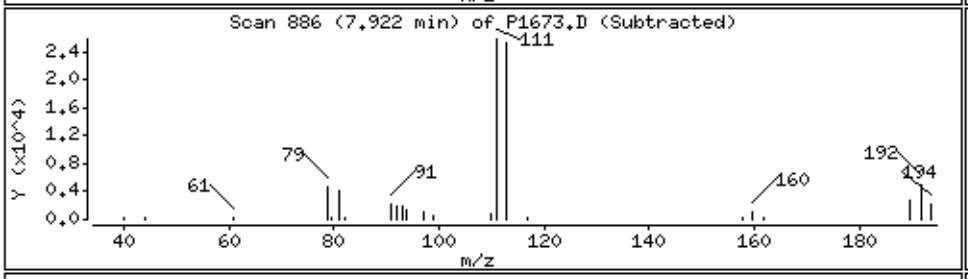


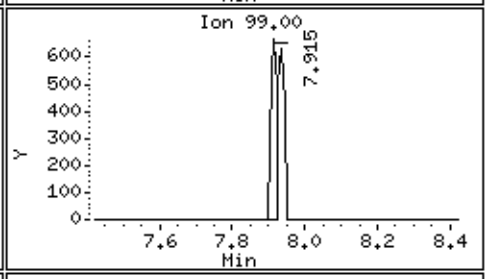


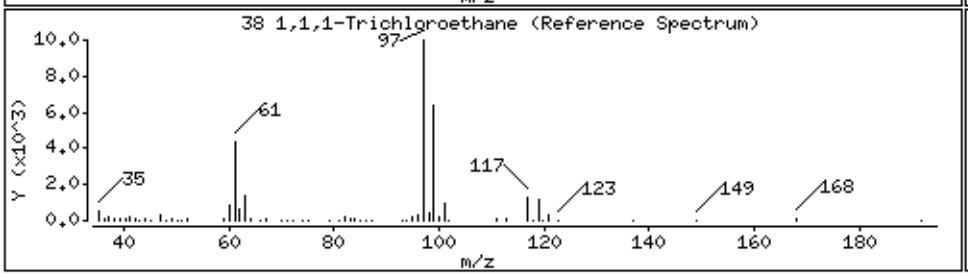
38 1,1,1-Trichloroethane Concentration: 0.36 ug/l

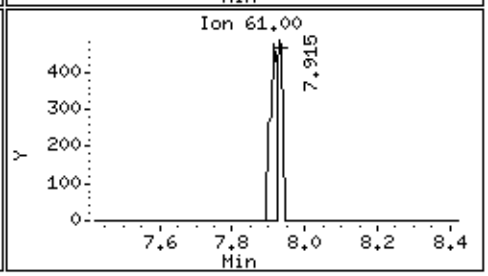












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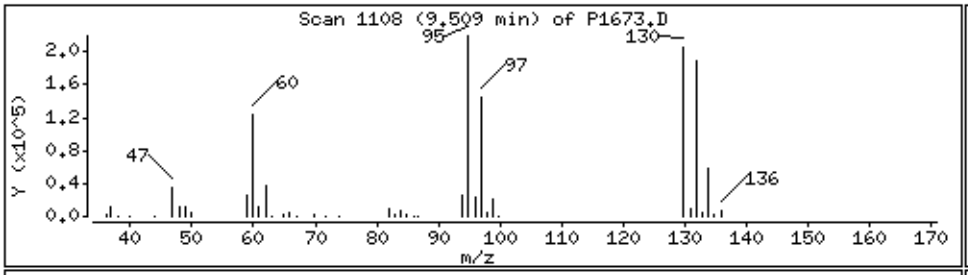
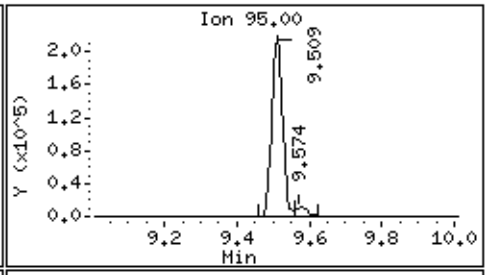
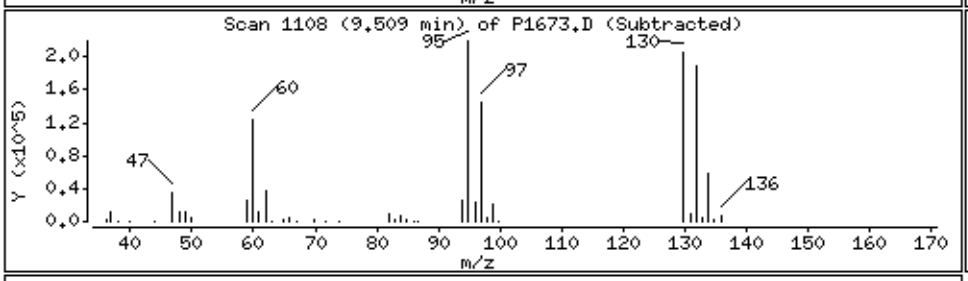
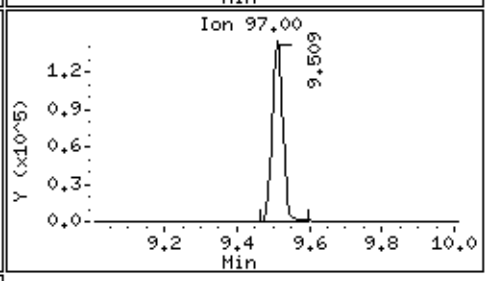
Date : 29-JUN-2015 16:13
Client ID: 159-062415-218-220 Instrument: gcms-p.i
Sample Info: SI4557-1

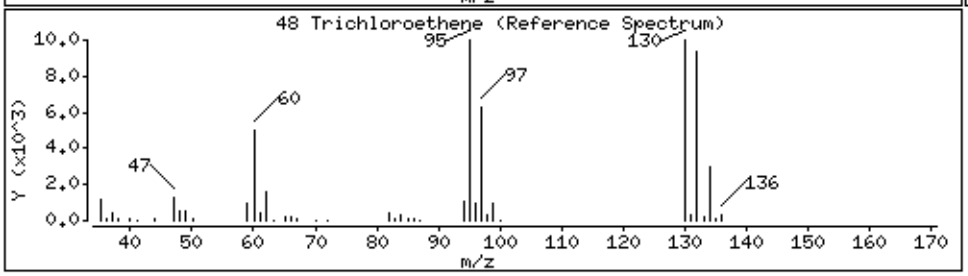
48 Trichloroethene Concentration: 102 ug/l



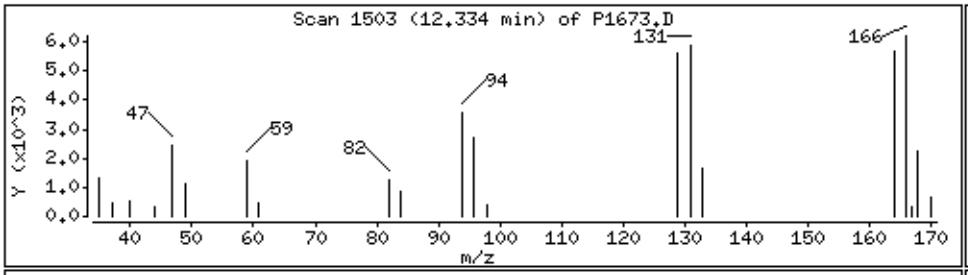


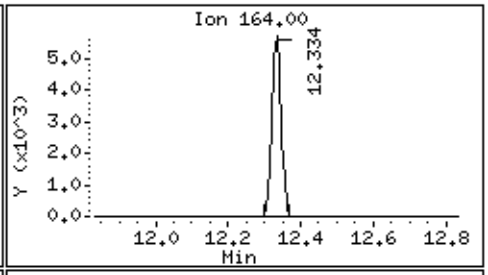


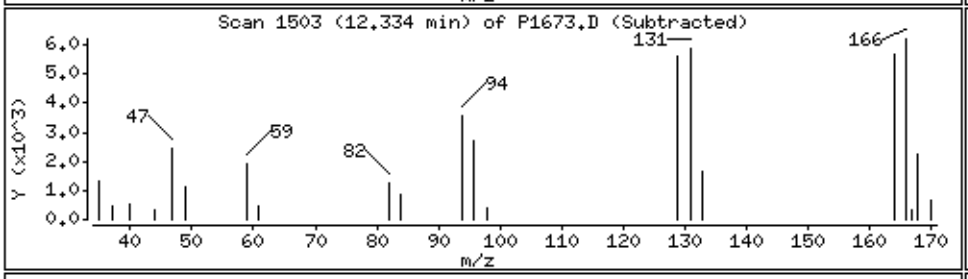


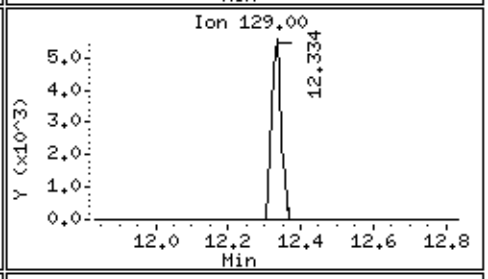


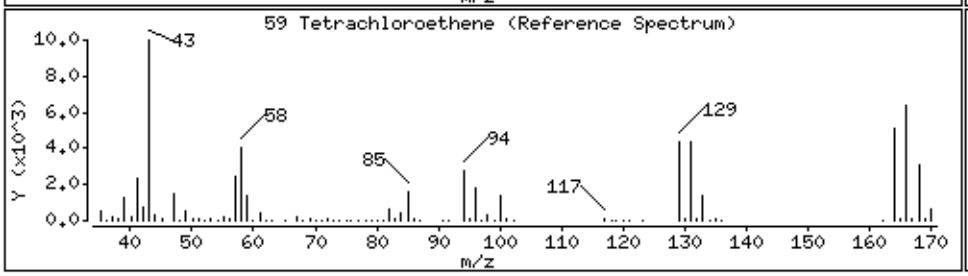
59 Tetrachloroethene Concentration: 3.4 ug/l

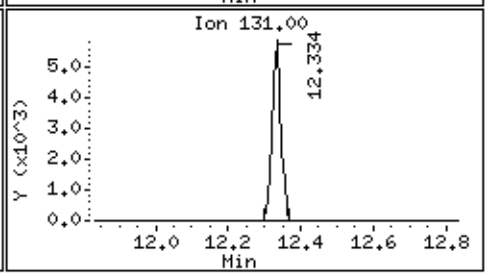












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-2
Client ID: 159-062415-238-240
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1674.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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		1.4	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		10	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	4.7	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		2.6	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.55	ug/L	1	1	1.0	0.32	0.50
1,1,1-Trichloroethane	J	0.37	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		140	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		3.9	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: SI4557-2
Client ID: 159-062415-238-240
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1674.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)		2.6	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		86.0	%					
Toluene-d8		93.5	%					
1,2-Dichloroethane-d4		96.6	%					
Dibromofluoromethane		89.7	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D
Report Date: 30-Jun-2015 10:42

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D
Lab Smp Id: SI4557-2 Client Smp ID: 159-062415-238-240
Inj Date : 29-JUN-2015 16:39 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-2
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 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

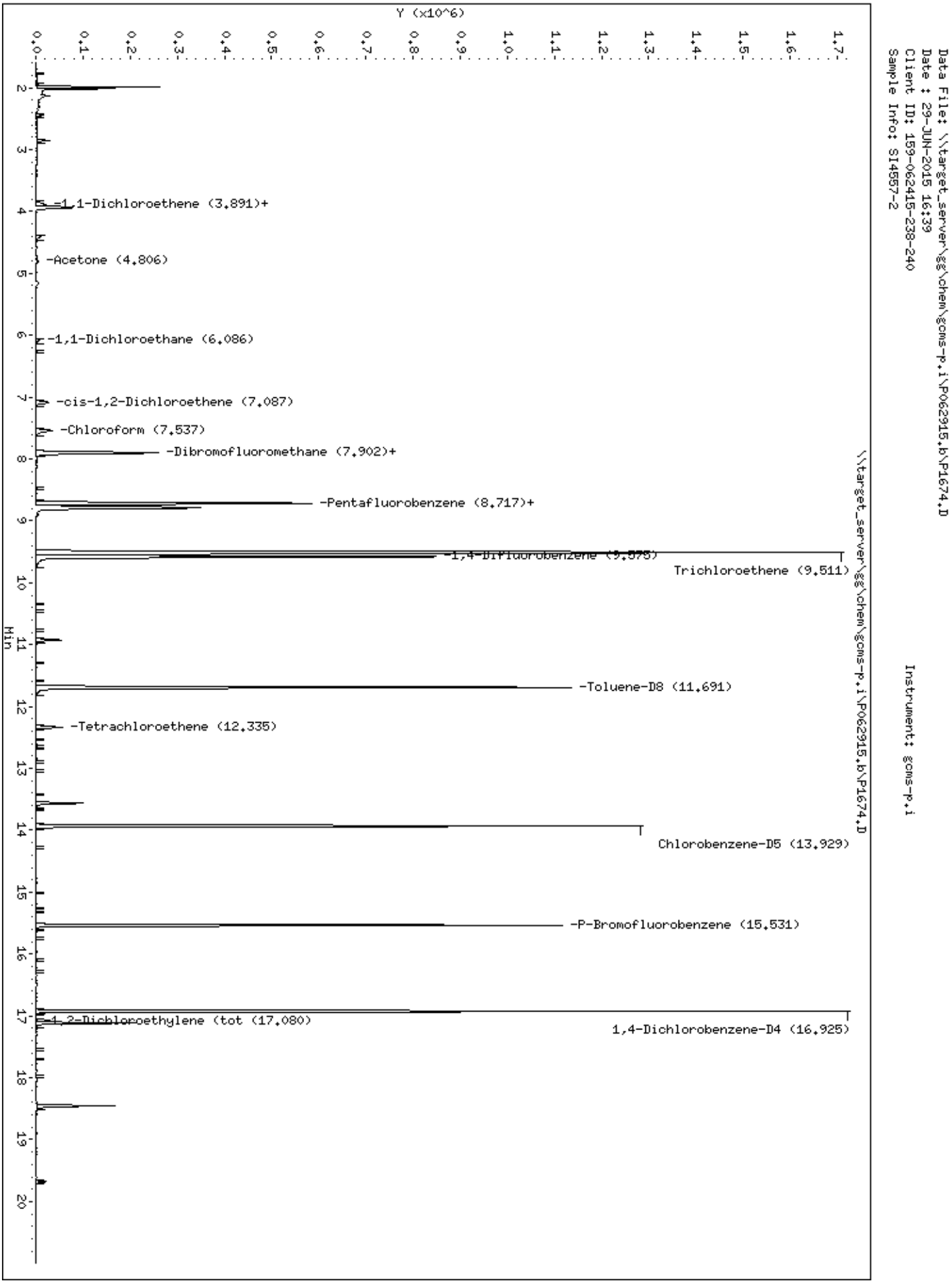
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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	3.890	3.889	(0.446)	5528	1.41424	1.4	
11 Freon-113	151	3.933	3.939	(0.451)	25085	10.0642	10.1	
15 Acetone	43	4.805	4.804	(0.551)	8245	4.73745	4.7(a)	
25 1,1-Dichloroethane	63	6.085	6.084	(0.698)	10689	1.32139	1.3	
29 cis-1,2-Dichloroethene	96	7.086	7.085	(0.813)	13121	2.57520	2.6	
M 30 1,2-Dichloroethylene (total)	96				13121	2.57520	2.6	
34 Chloroform	83	7.587	7.578	(0.870)	4560	0.55169	0.55(a)	
$ 37 Dibromofluoromethane	113	7.901	7.900	(0.906)	184701	44.8609	44.9	
38 1,1,1-Trichloroethane	97	7.923	7.922	(0.909)	2558	0.37308	0.37(aH)	
* 42 Pentafluorobenzene	168	8.716	8.715	(1.000)	380636	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.788	8.787	(1.008)	279133	48.2761	48.3	
48 Trichloroethene	95	9.510	9.509	(0.993)	611532	136.494	136	
* 49 1,4-Difluorobenzene	114	9.582	9.573	(1.000)	699174	50.0000		
$ 55 Toluene-D8	98	11.691	11.690	(1.220)	722898	46.7384	46.7	
59 Tetrachloroethene	164	12.334	12.333	(0.886)	11790	3.88940	3.9	
* 66 Chlorobenzene-D5	117	13.929	13.935	(1.000)	610484	50.0000		
$ 76 P-Bromofluorobenzene	95	15.531	15.537	(1.621)	302720	43.0270	43.0	
* 91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	335383	50.0000		

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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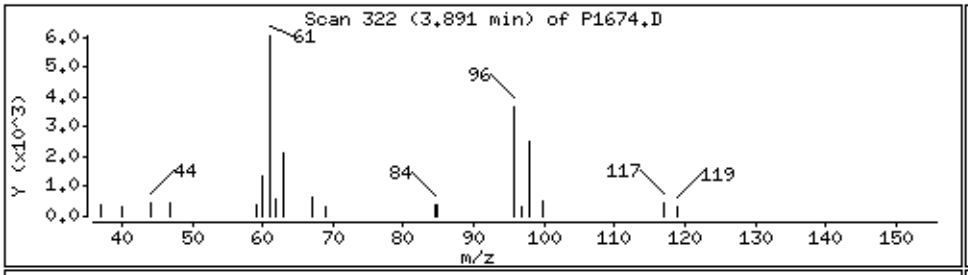
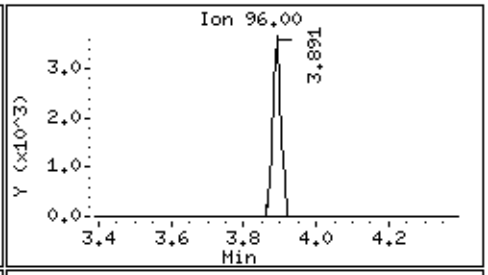
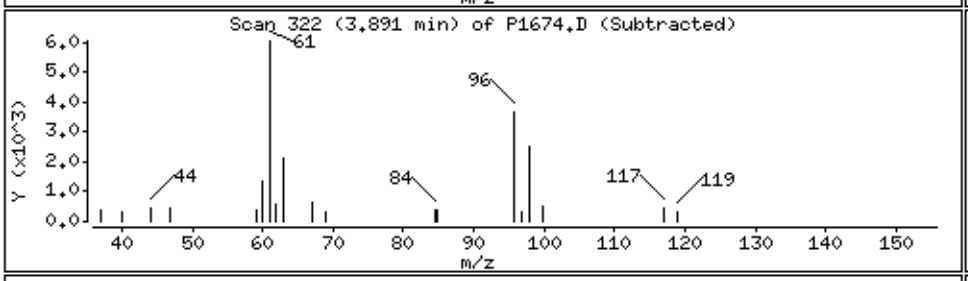
Date : 29-JUN-2015 16:39
Client ID: 159-062415-238-240
Sample Info: SI4557-2
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.891)+
-Acetone (4.806)
-1,1-Dichloroethane (6.086)
-cis-1,2-Dichloroethene (7.087)
-Chloroform (7.537)
-Dibromofluoromethane (7.902)+
-Pentafluorobenzene (8.717)+
-1,4-Difluorobenzene (9.575)
Trichloroethene (9.511)
-Toluene-D8 (11.691)
-Tetrachloroethene (12.335)
Chlorobenzene-D5 (13.929)
-P-Bromofluorobenzene (15.531)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.925)

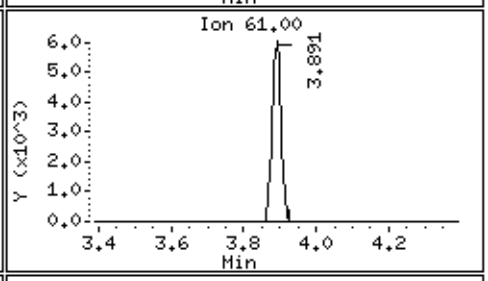
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D
Date : 29-JUN-2015 16:39
Client ID: 159-062415-238-240 Instrument: gcms-p.i
Sample Info: SI4557-2

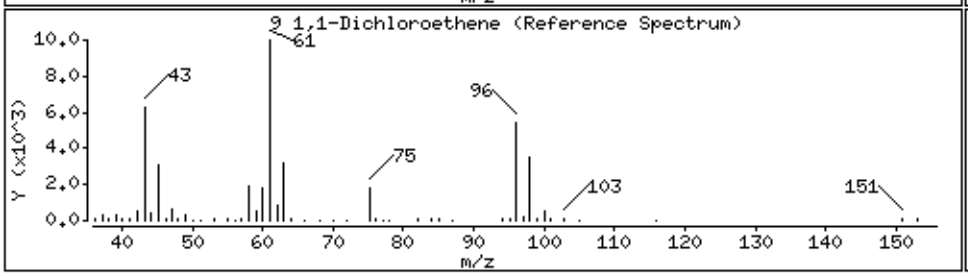
9 1,1-Dichloroethene Concentration: 1.4 ug/l

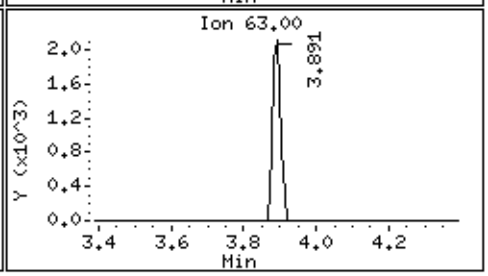




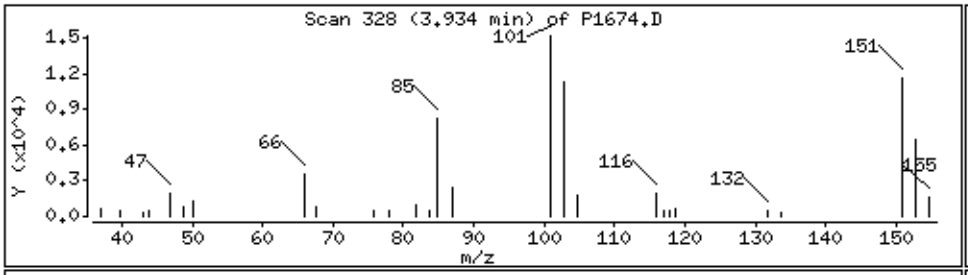


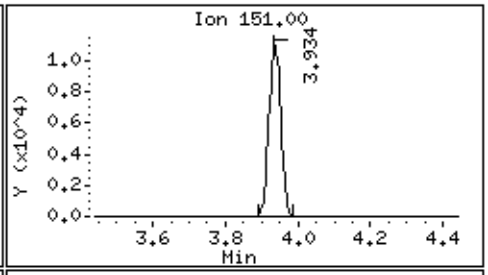


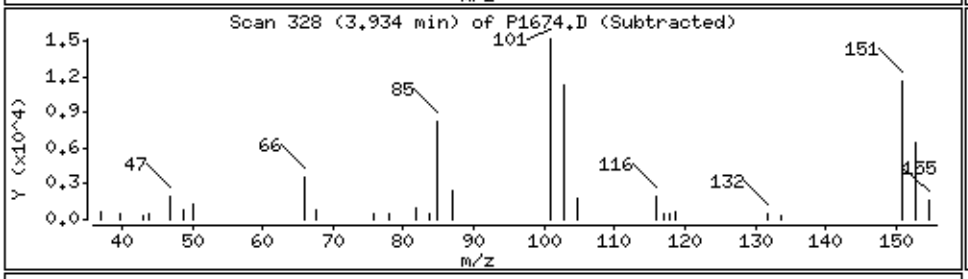


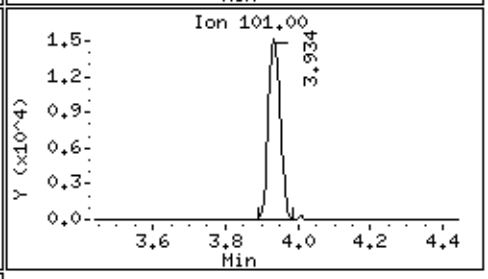


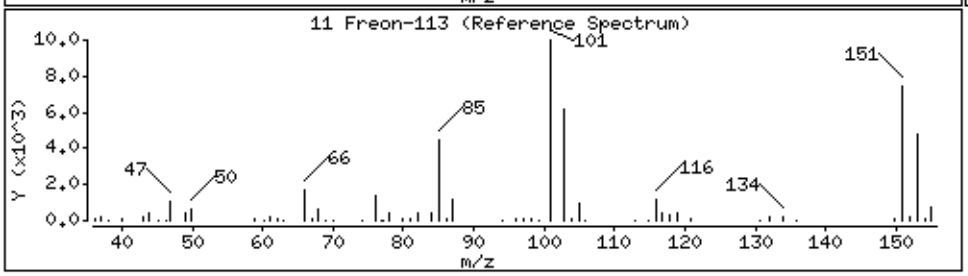
11 Freon-113 Concentration: 10.1 ug/l





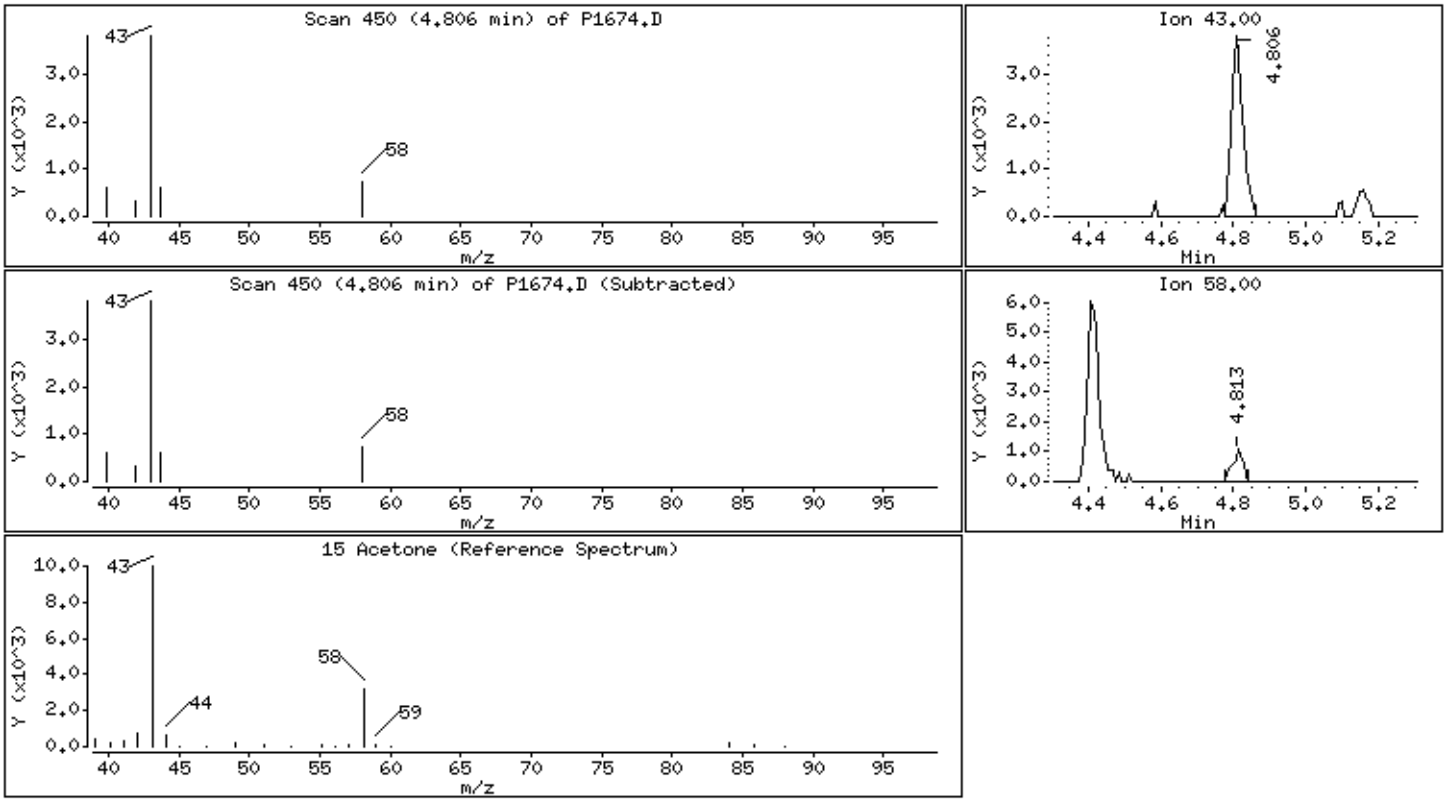




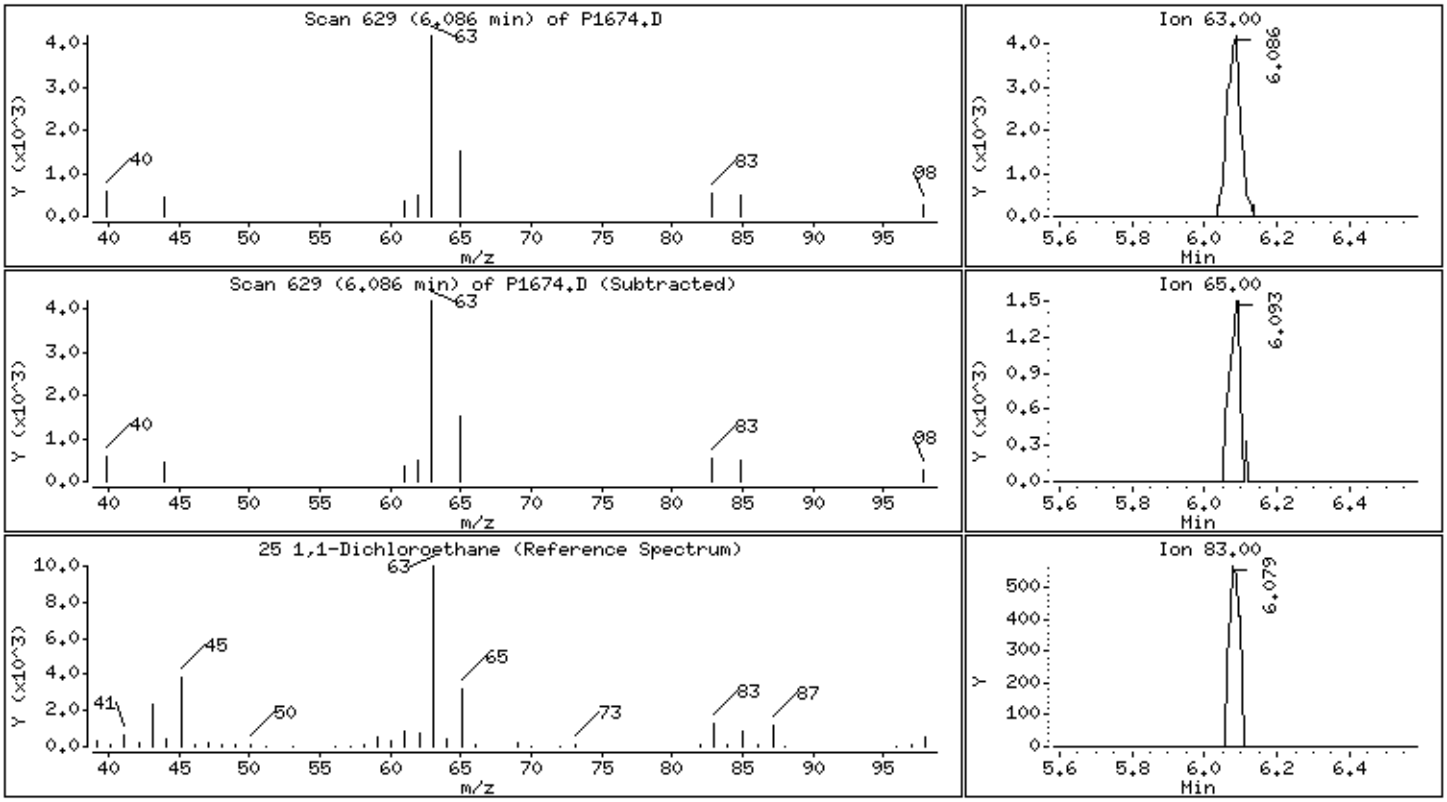


Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D
Date : 29-JUN-2015 16:39
Client ID: 159-062415-238-240 Instrument: gcms-p.i
Sample Info: SI4557-2

15 Acetone Concentration: 4.7 ug/l

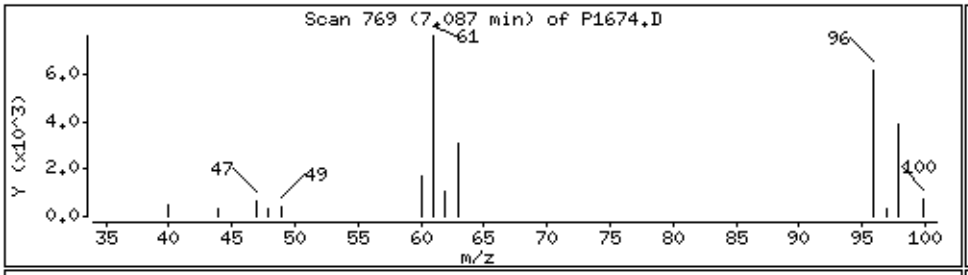


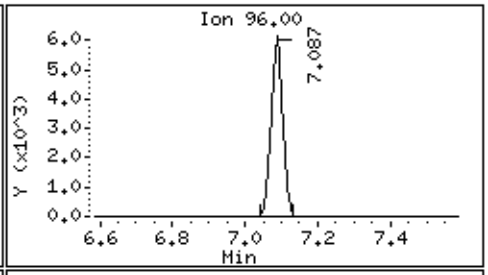
25 1,1-Dichloroethane Concentration: 1.3 ug/l

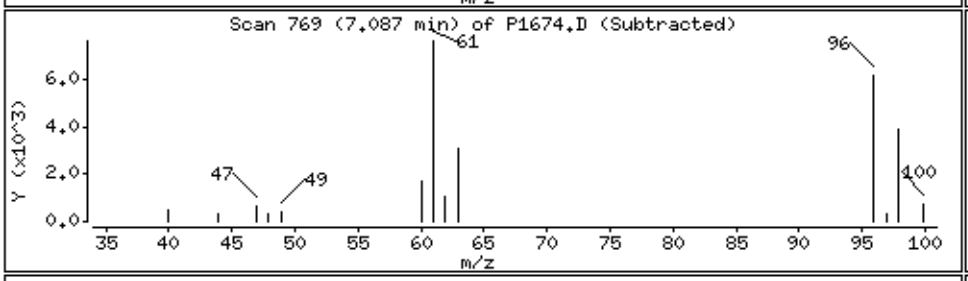


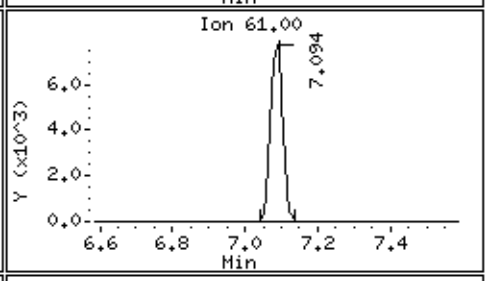
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D
Date : 29-JUN-2015 16:39
Client ID: 159-062415-238-240 Instrument: gcms-p.i
Sample Info: SI4557-2

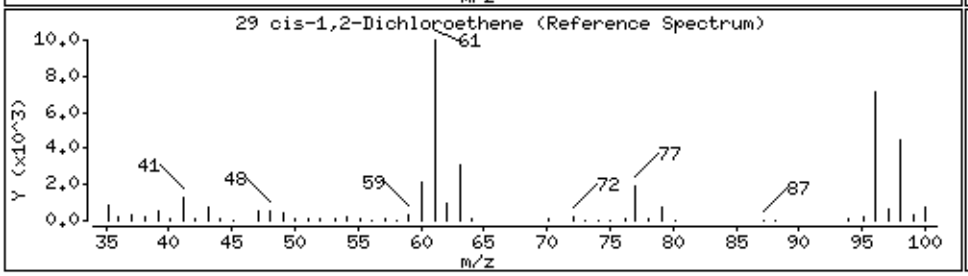
29 cis-1,2-Dichloroethene Concentration: 2.6 ug/l

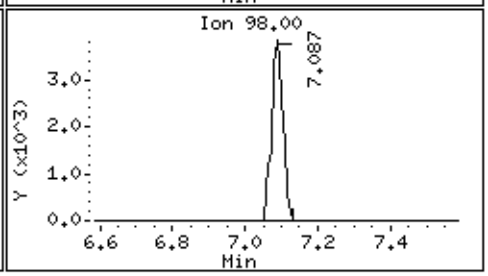




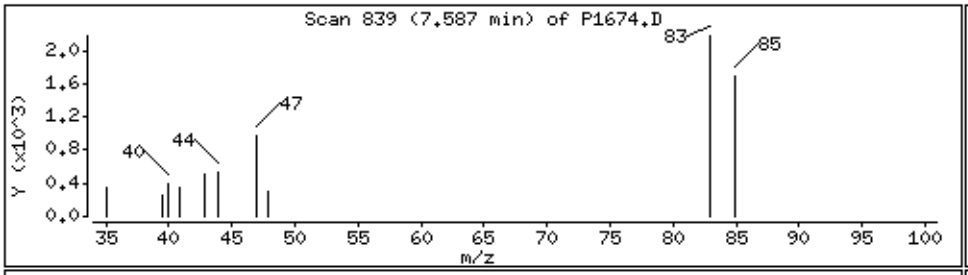


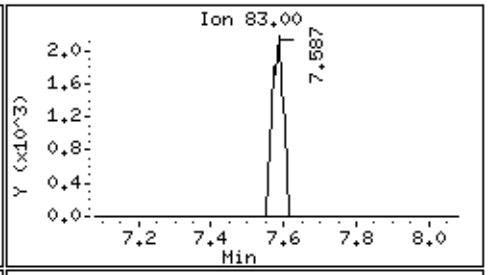


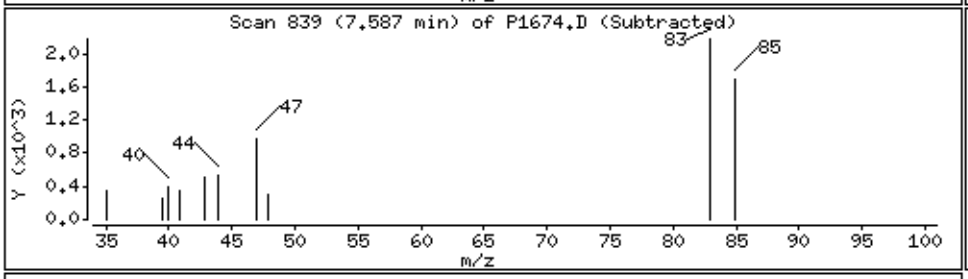


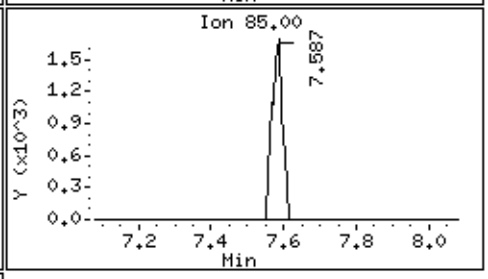


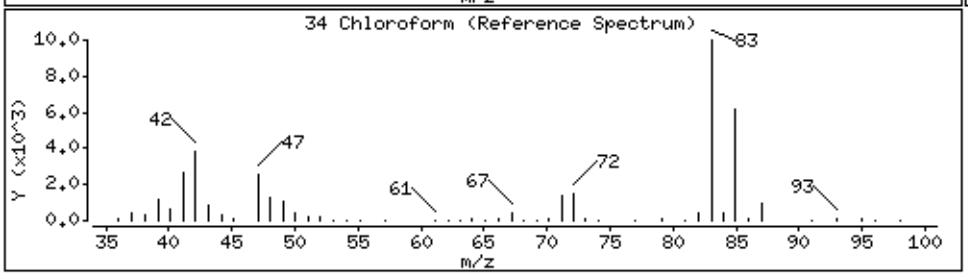
34 Chloroform Concentration: 0.55 ug/l





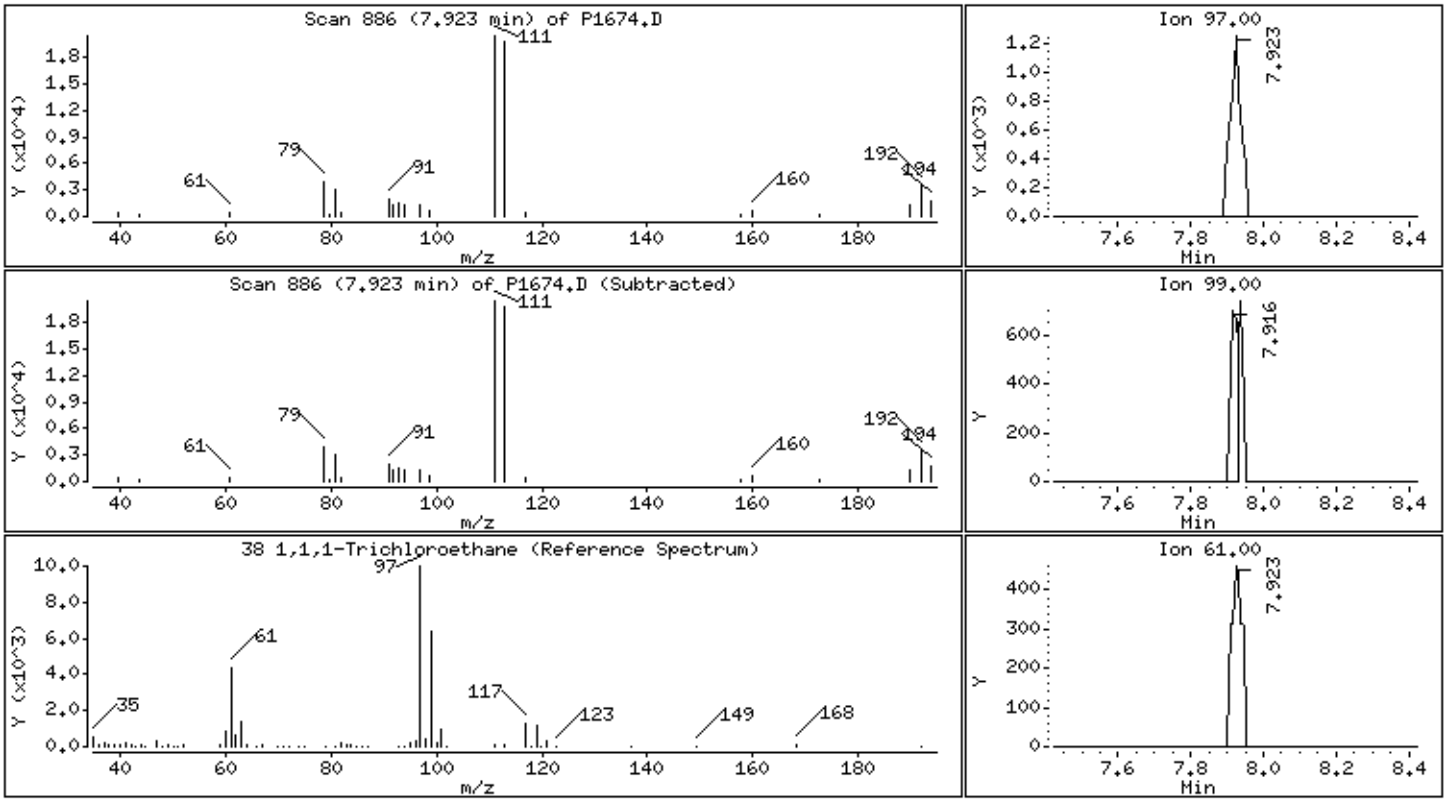




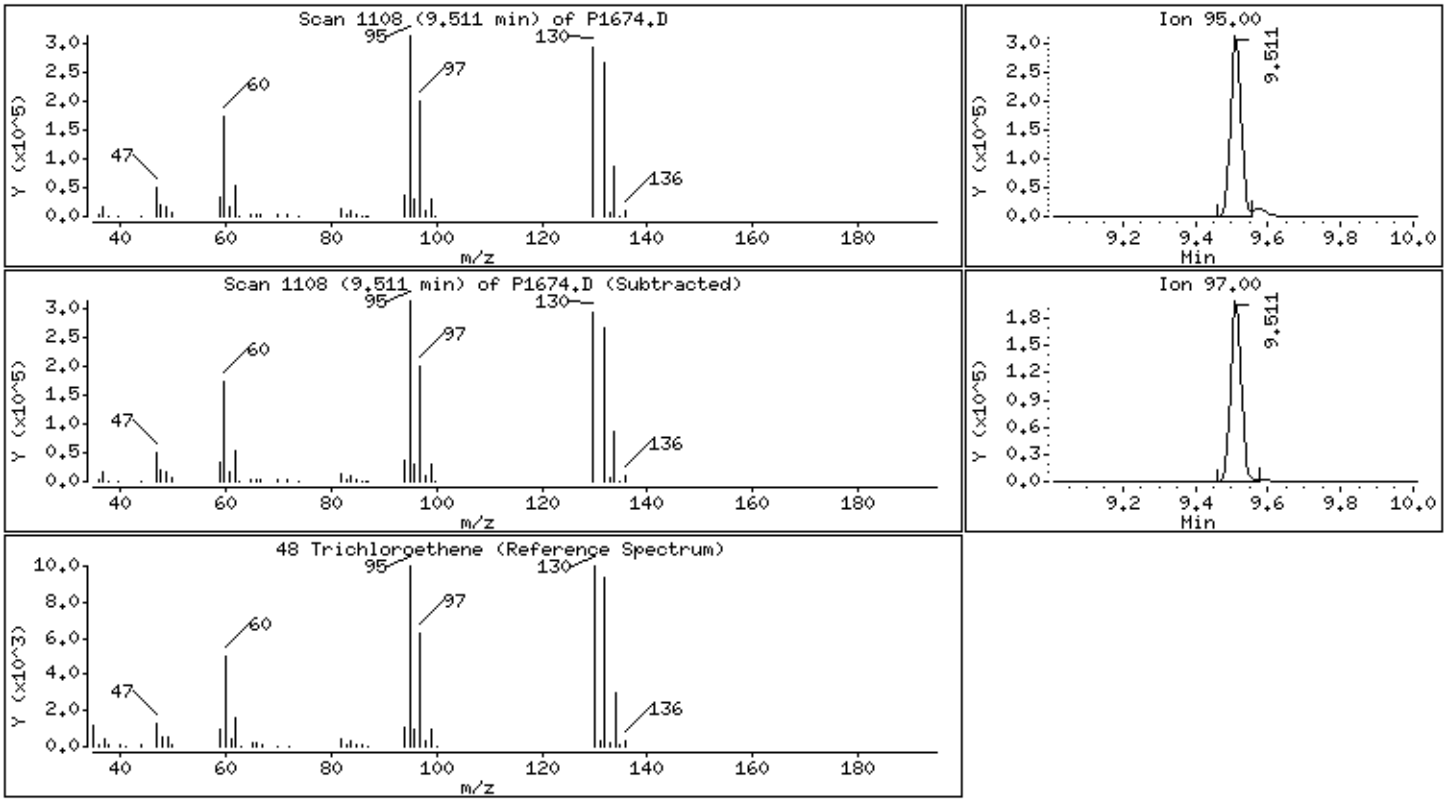


Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D
Date : 29-JUN-2015 16:39
Client ID: 159-062415-238-240 Instrument: gcms-p.i
Sample Info: SI4557-2

38 1,1,1-Trichloroethane Concentration: 0.37 ug/l



48 Trichloroethene Concentration: 136 ug/l



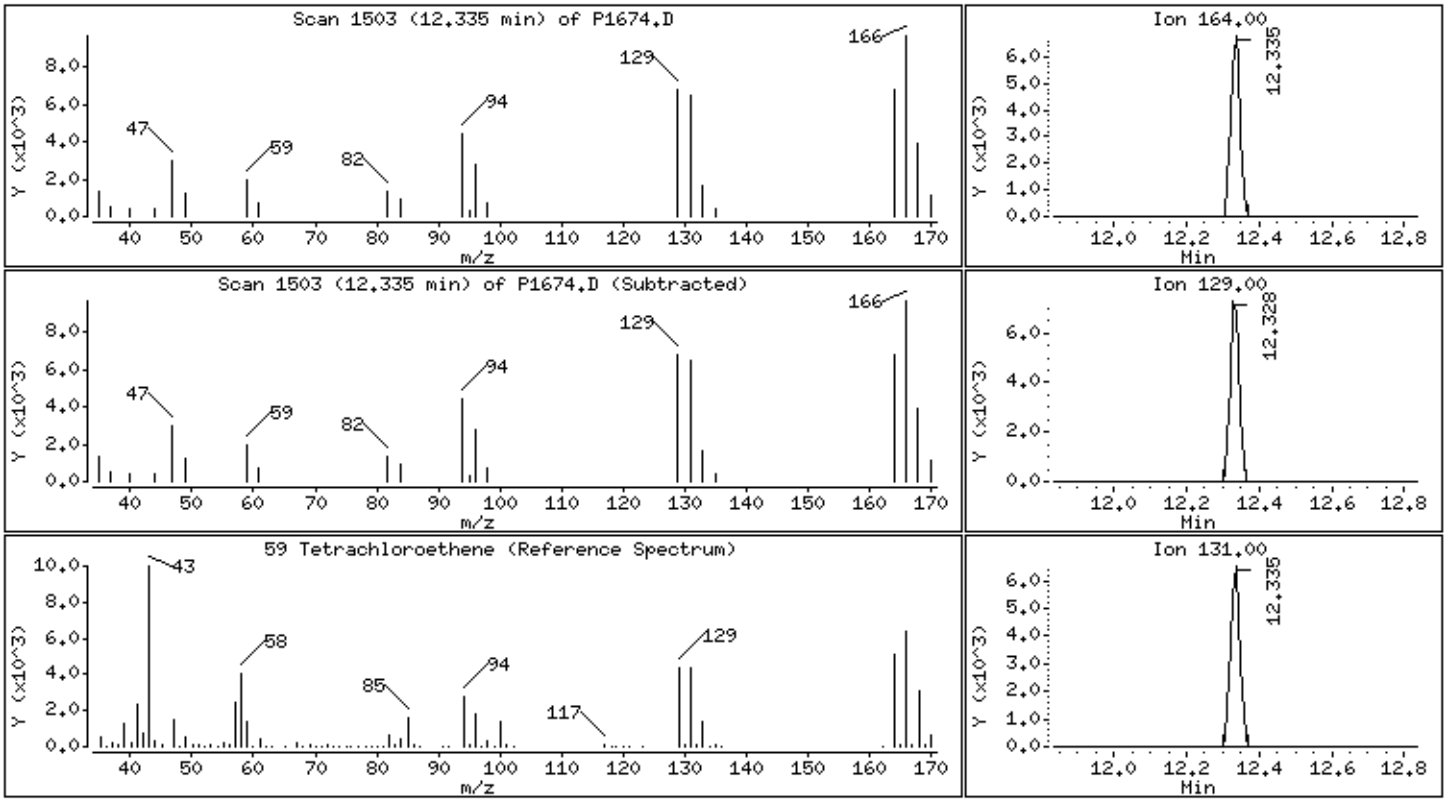
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1674.D

Date : 29-JUN-2015 16:39

Client ID: 159-062415-238-240 Instrument: gcms-p.i

Sample Info: SI4557-2

59 Tetrachloroethene Concentration: 3.9 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-3
Client ID: 159-062415-258-260
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1675.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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	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	JM	0.83	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		8.7	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	J	4.7	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	M	1.6	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	M	1.6	ug/L	1	1	1.0	0.21	0.50
Chloroform	JM	0.43	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	UM	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	UM	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	UM	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	M	25	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	UM	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	UM	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	UM	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	UM	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	UM	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	UM	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

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-3
Client ID: 159-062415-258-260
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1675.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)	UM	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	UM	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	UM	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	UM	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	UM	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UM	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	UM	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	UM	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	UM	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	UM	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	UM	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	JM	1.6	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	UM	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		104.	%					
1,2-Dichloroethane-d4		108.	%					
Dibromofluoromethane		100.	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1675.D
Report Date: 08-Jul-2015 13:36

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1675.D
Lab Smp Id: SI4557-3 Client Smp ID: 159-062415-258-260
Inj Date : 29-JUN-2015 17:05 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-3
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 15:24 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

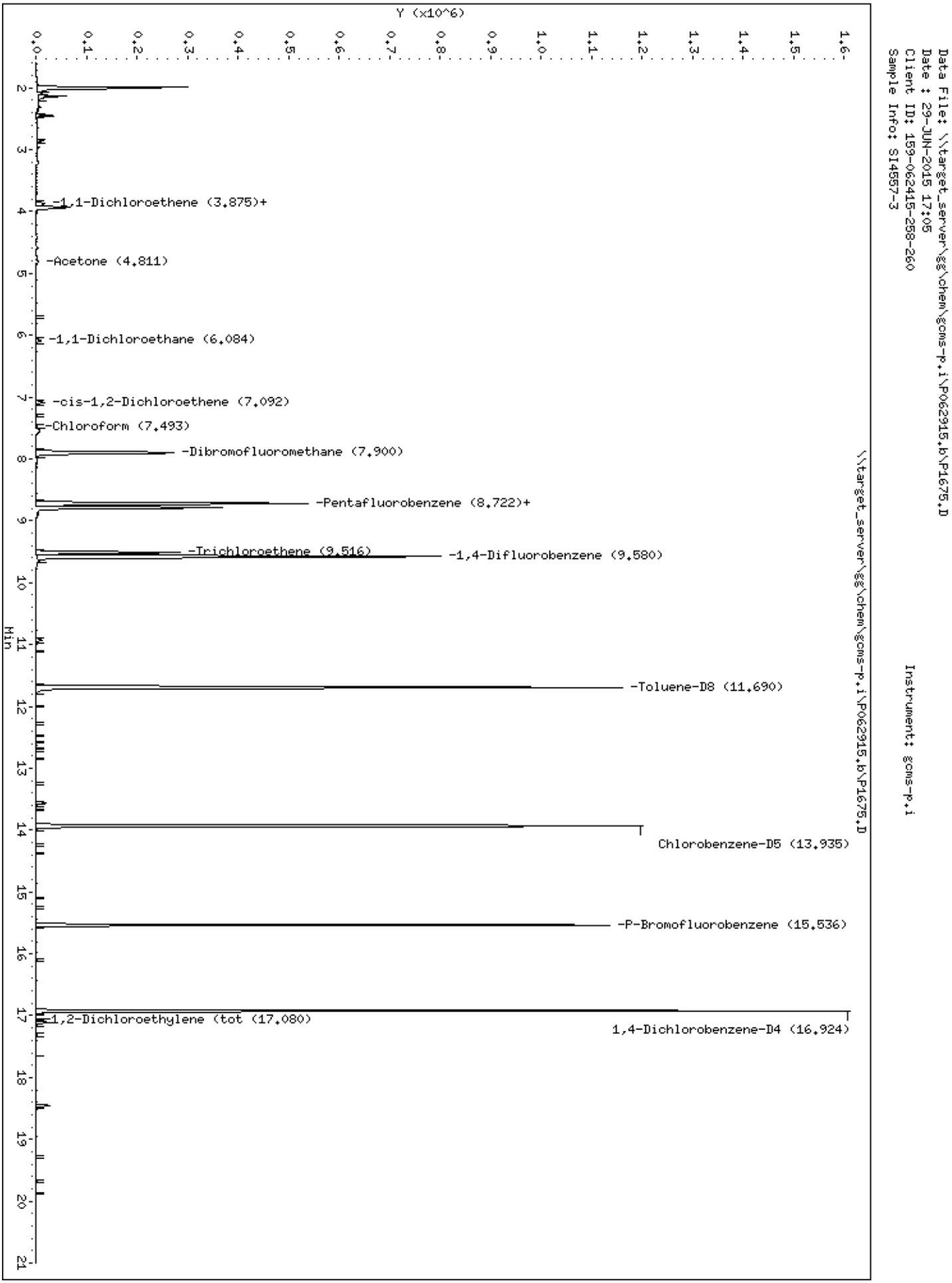
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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	3.896	3.889	(0.447)	3075	0.82900	0.83(a)	
	11 Freon-113	151	3.938	3.939	(0.452)	20646	8.72876	8.7	
	15 Acetone	43	4.811	4.804	(0.552)	7774	4.70706	4.7(a)	
	25 1,1-Dichloroethane	63	6.076	6.084	(0.697)	12335	1.60688	1.6	
	29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.813)	7821	1.61755	1.6	
M	30 1,2-Dichloroethylene (total)	96				7821	1.61755	1.6(a)	
	34 Chloroform	83	7.578	7.578	(0.869)	3354	0.42761	0.43(a)	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	196385	50.2642	50.3	
*	42 Pentafluorobenzene	168	8.722	8.715	(1.000)	361209	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.007)	297414	54.2043	54.2	
	48 Trichloroethene	95	9.508	9.509	(0.993)	104987	24.7902	24.8	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	660899	50.0000		
$	55 Toluene-D8	98	11.696	11.690	(1.221)	763840	52.2455	52.2	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	587434	50.0000		
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	327865	49.2998	49.3	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	323937	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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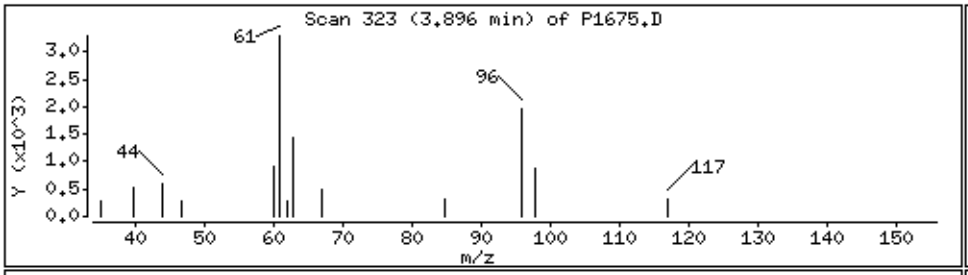
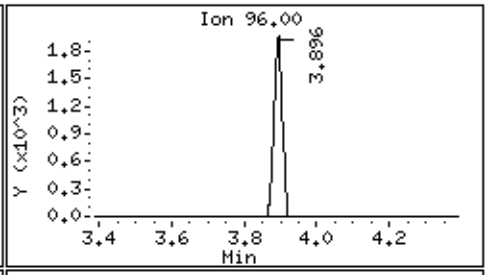
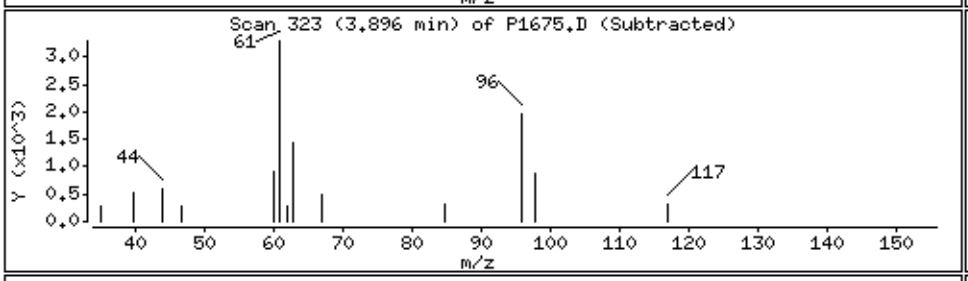
Date : 29-JUN-2015 17:05
Client ID: 159-062415-258-260
Sample Info: SI4557-3
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1675.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.875)+
-Acetone (4.811)
-1,1-Dichloroethane (6.084)
-cis-1,2-Dichloroethene (7.092)
-Chloroform (7.493)
-Dibromofluoromethane (7.900)
-Pentafluorobenzene (8.722)+
-Trichloroethene (9.516)
-1,4-Difluorobenzene (9.580)
-Toluene-D8 (11.690)
Chlorobenzene-D5 (13.935)
-P-Bromofluorobenzene (15.536)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.924)

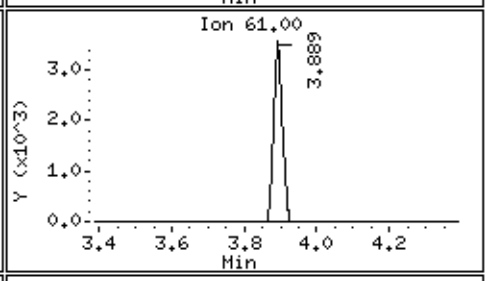
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1675.D
Date : 29-JUN-2015 17:05
Client ID: 159-062415-258-260 Instrument: gcms-p.i
Sample Info: SI4557-3

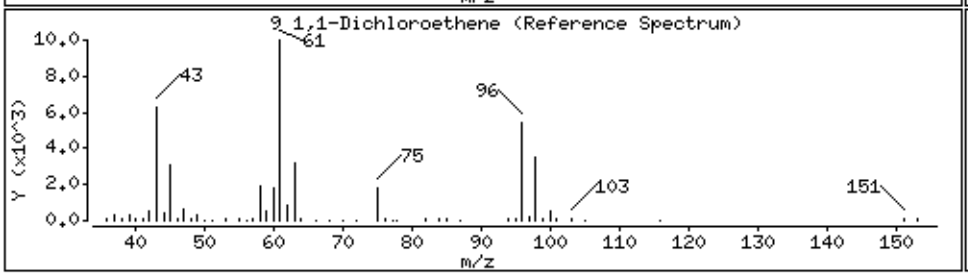
9 1,1-Dichloroethene Concentration: 0.83 ug/l

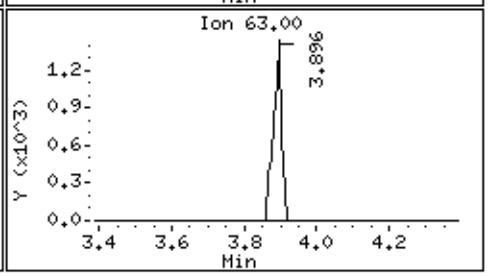




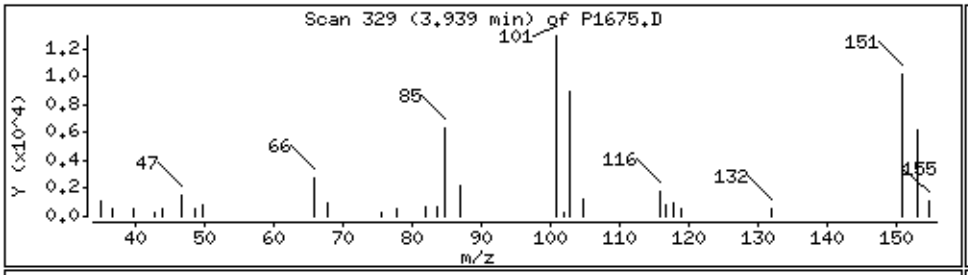


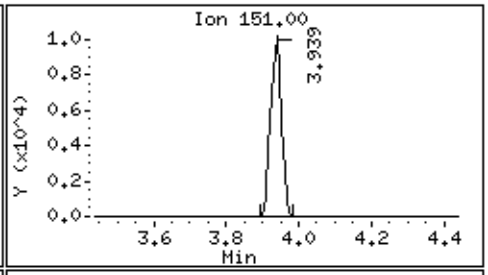


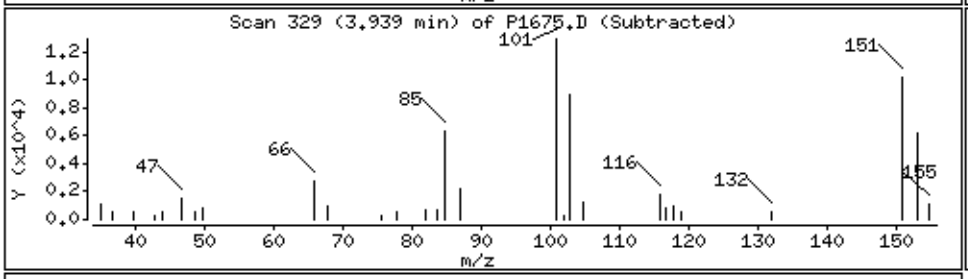


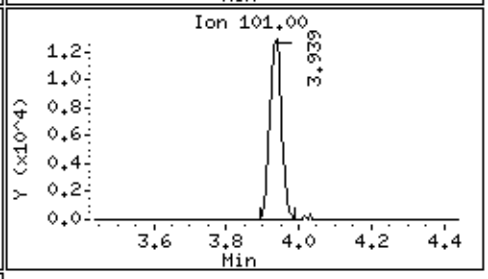


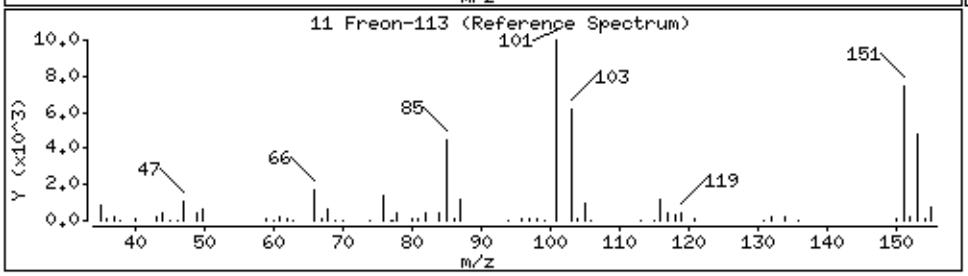
11 Freon-113 Concentration: 8.7 ug/l





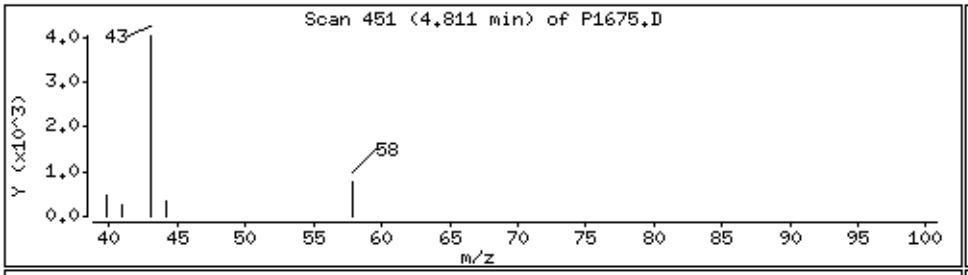


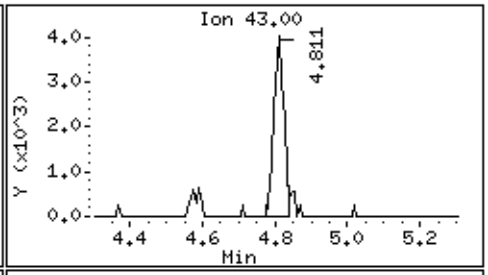


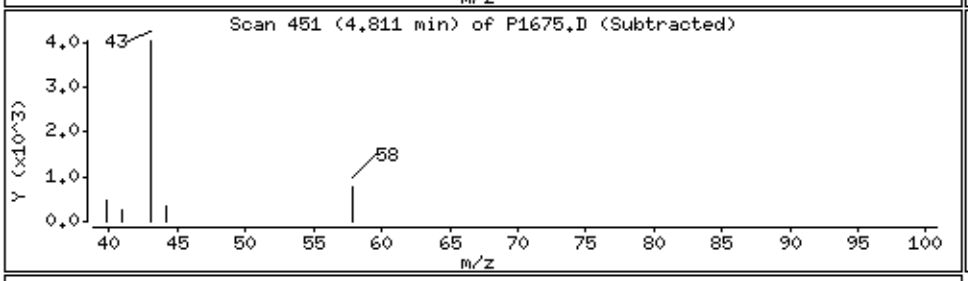


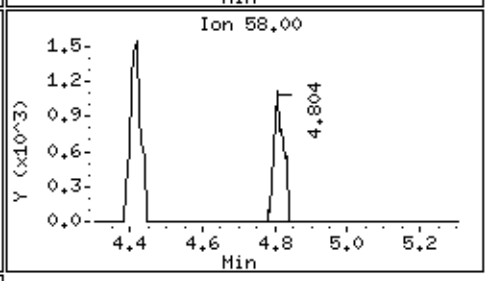
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1675.D
Date : 29-JUN-2015 17:05
Client ID: 159-062415-258-260 Instrument: gcms-p.i
Sample Info: SI4557-3

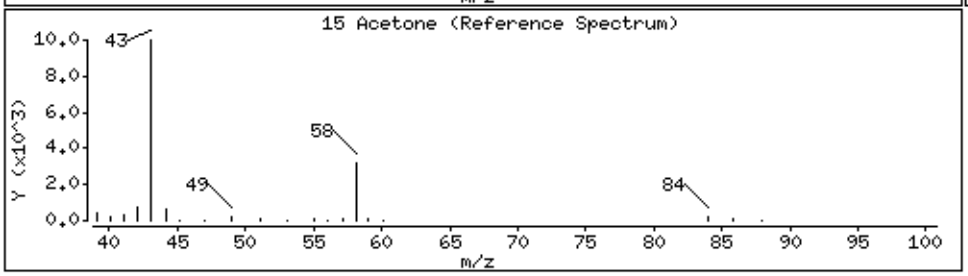
15 Acetone Concentration: 4.7 ug/l



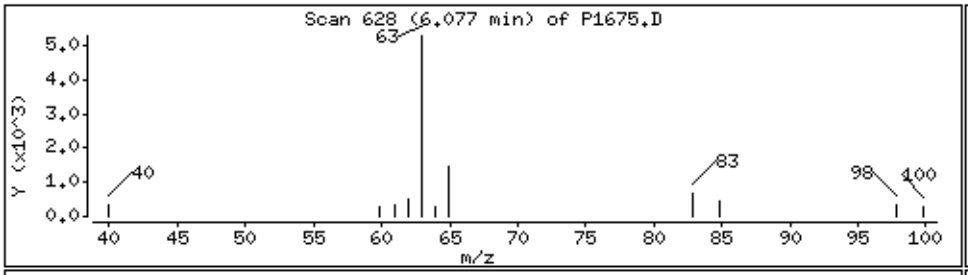


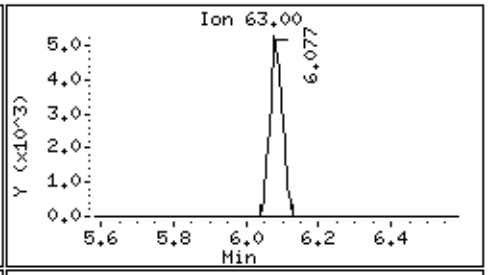


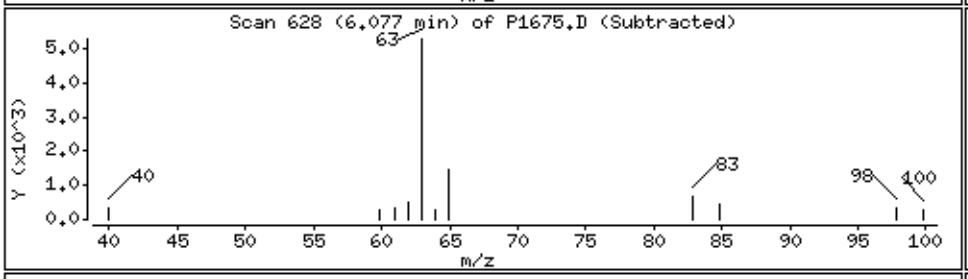


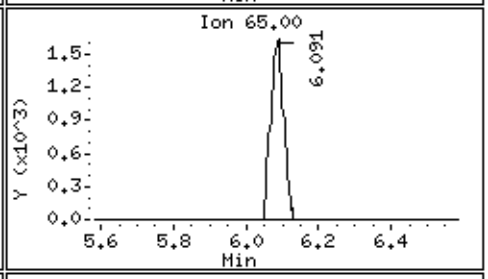


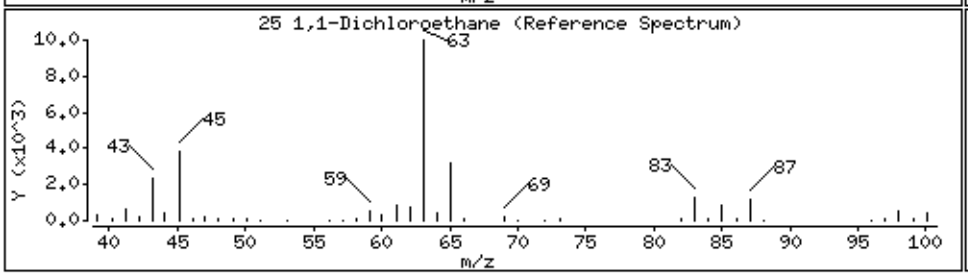
25 1,1-Dichloroethane Concentration: 1.6 ug/l

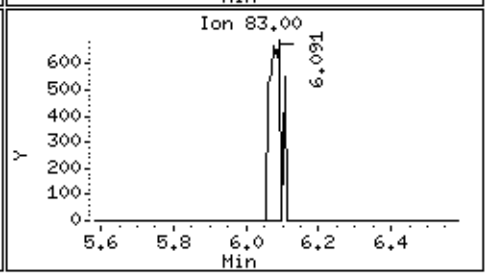






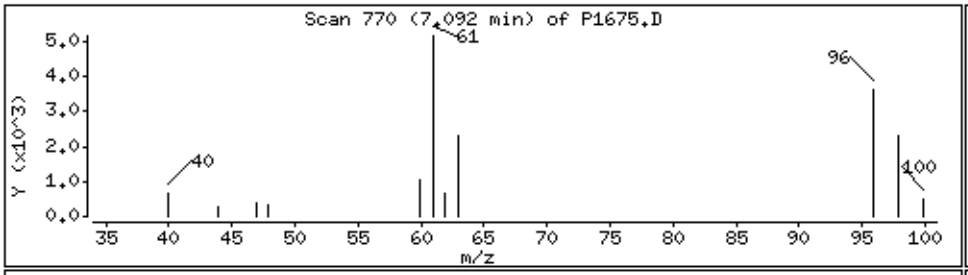


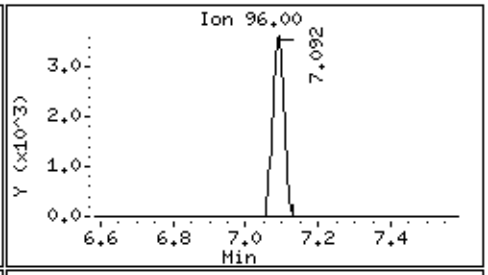


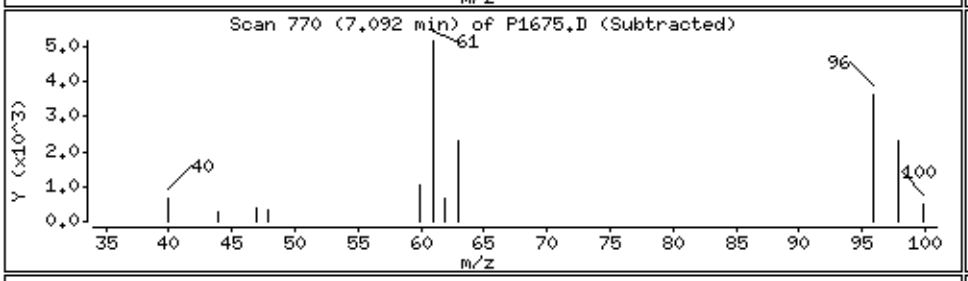


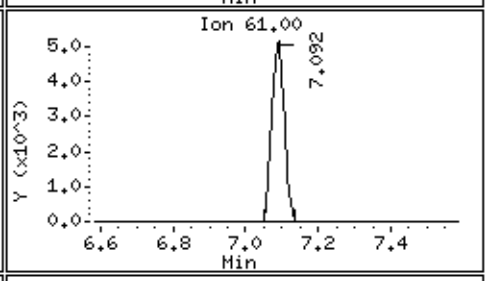
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1675.D
Date : 29-JUN-2015 17:05
Client ID: 159-062415-258-260 Instrument: gcms-p.i
Sample Info: SI4557-3

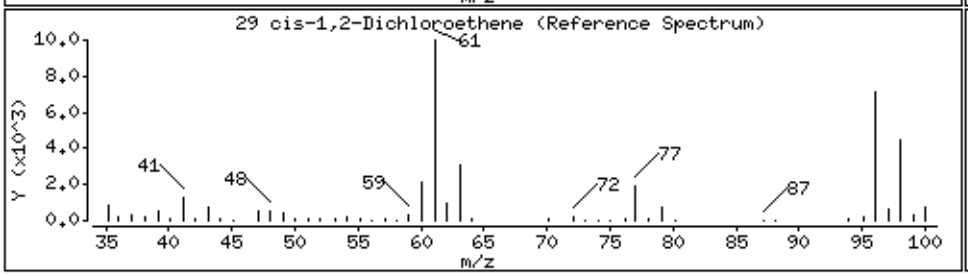
29 cis-1,2-Dichloroethene Concentration: 1.6 ug/l

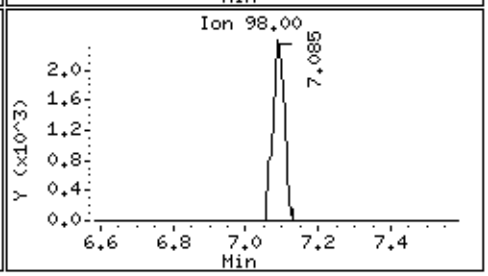




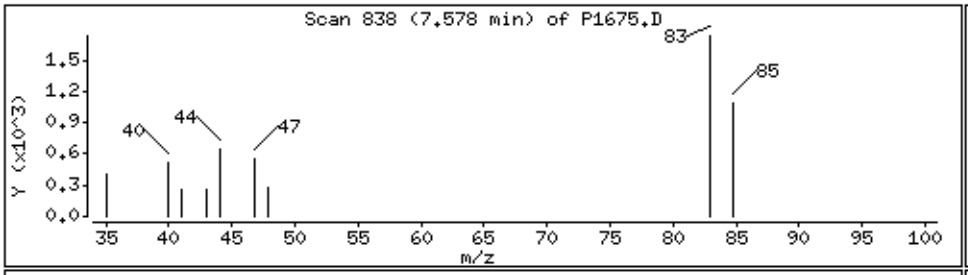


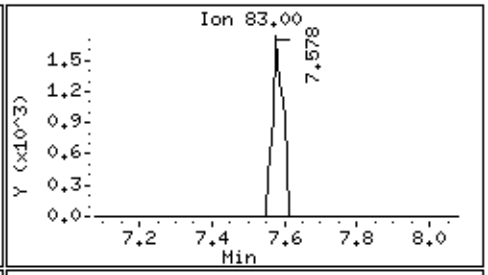


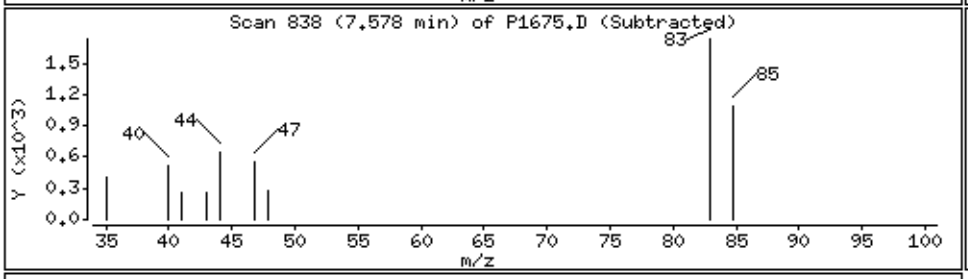


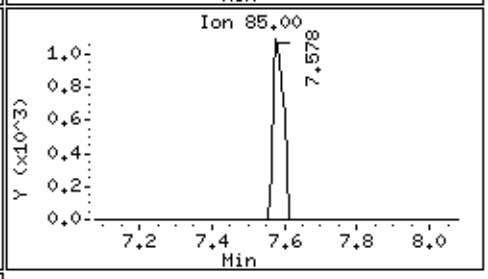


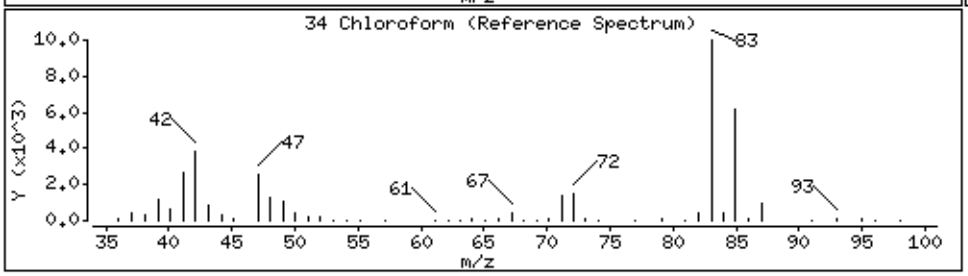
34 Chloroform Concentration: 0.43 ug/l











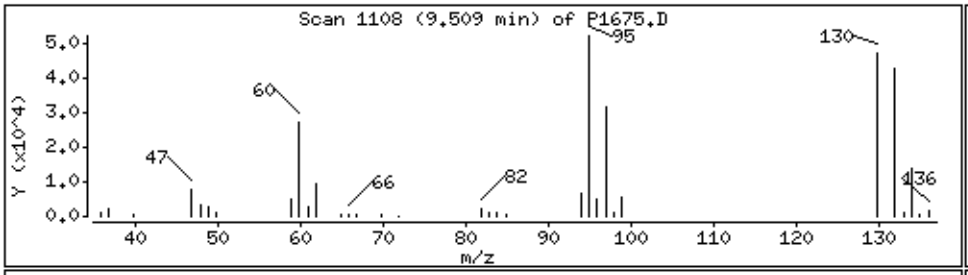
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1675.D

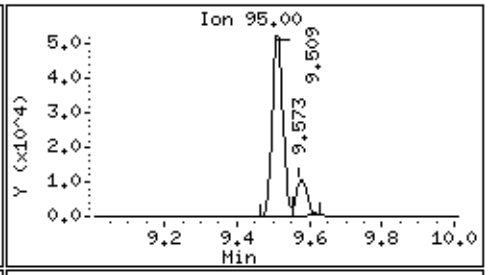
Date : 29-JUN-2015 17:05

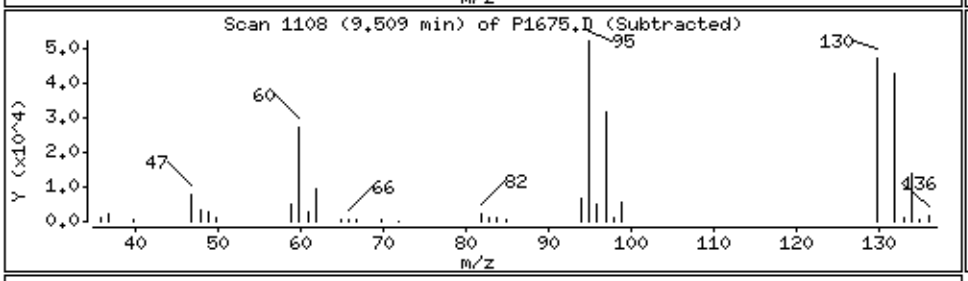
Client ID: 159-062415-258-260 Instrument: gcms-p.i

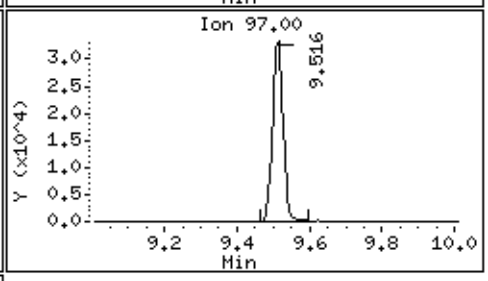
Sample Info: SI4557-3

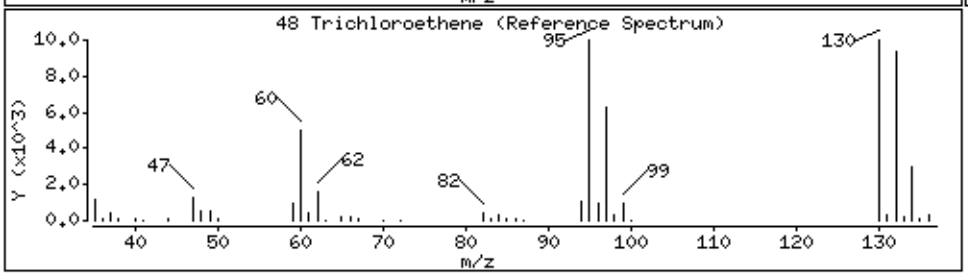
48 Trichloroethene Concentration: 24.8 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-4
Client ID: VPB159-TB-062415
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1669.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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

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: SI4557-4
Client ID: VPB159-TB-062415
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1669.D

Sample Date: 24-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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		92.2	%					
Toluene-d8		98.8	%					
1,2-Dichloroethane-d4		101.	%					
Dibromofluoromethane		92.6	%					

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

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1669.D
Report Date: 30-Jun-2015 10:42

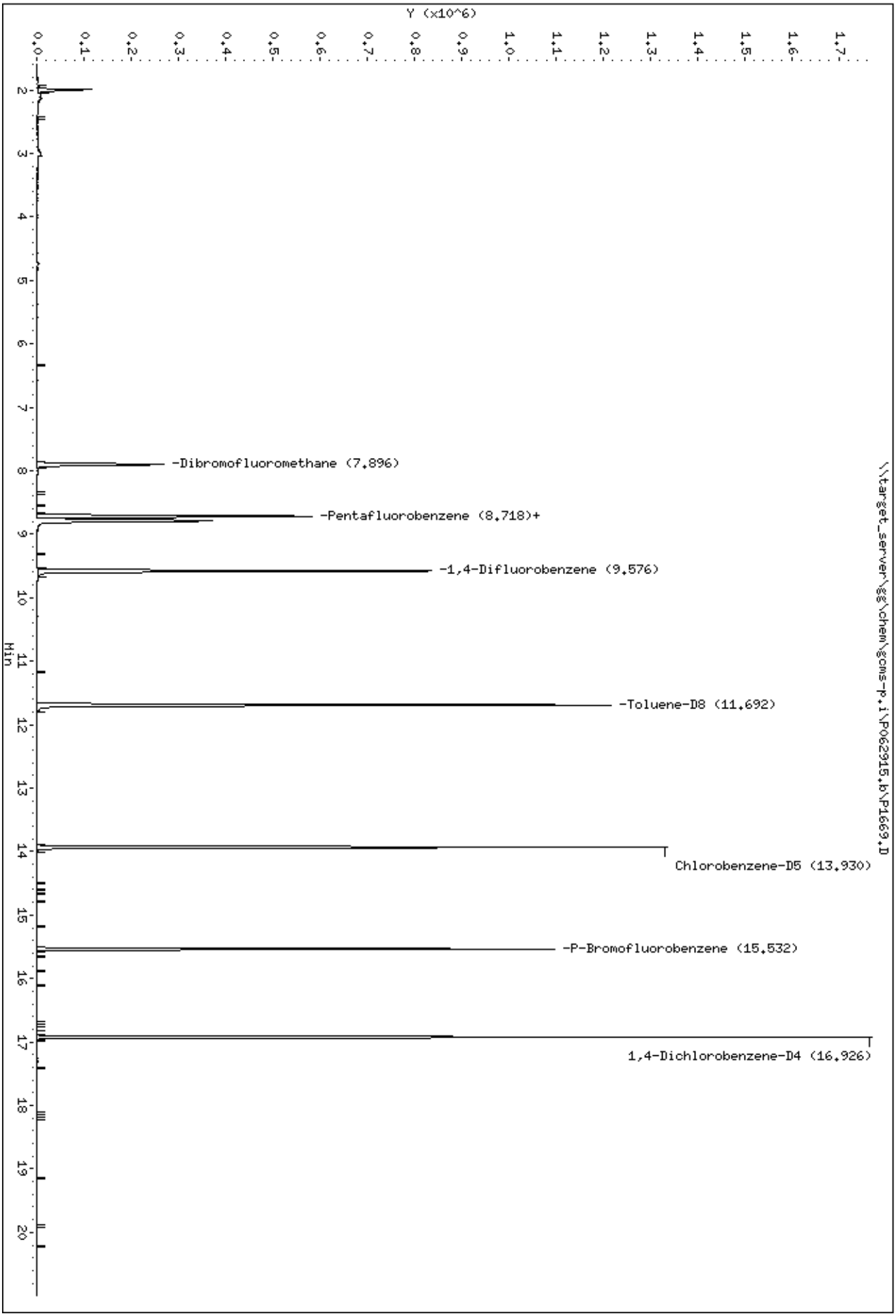
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1669.D
Lab Smp Id: SI4557-4 Client Smp ID: VPB159-TB-062415
Inj Date : 29-JUN-2015 14:29 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-4
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 7
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)	195069	46.3012	46.3	
* 42 Pentafluorobenzene	168	8.717	8.715	(1.000)	389498	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.789	8.787	(1.008)	298945	50.5262	50.5	
* 49 1,4-Difluorobenzene	114	9.582	9.573	(1.000)	707333	50.0000		
$ 55 Toluene-D8	98	11.692	11.690	(1.220)	773053	49.4046	49.4	
* 66 Chlorobenzene-D5	117	13.930	13.935	(1.000)	623283	50.0000		
$ 76 P-Bromofluorobenzene	95	15.531	15.537	(1.621)	328336	46.1296	46.1	
* 91 1,4-Dichlorobenzene-D4	152	16.926	16.924	(1.000)	340327	50.0000		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Date : 29-JUN-2015 14:29
Client ID: WPB159-TB-062415
Sample Info: S14557-4
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1669.D
Y (x10^6)
Min
-Dibromofluoromethane (7.896)
-Pentafluorobenzene (8.718)+
-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: SI4557-5
Client ID: 159-062515-278-280
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1676.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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	J	0.93	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		2.9	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		6.5	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	J	0.44	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	J	0.98	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	0.90	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		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		8.3	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: SI4557-5
Client ID: 159-062515-278-280
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1676.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)		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		89.4	%					
Toluene-d8		95.4	%					
1,2-Dichloroethane-d4		99.0	%					
Dibromofluoromethane		93.8	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1676.D
Report Date: 30-Jun-2015 10:43

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1676.D
Lab Smp Id: SI4557-5 Client Smp ID: 159-062515-278-280
Inj Date : 29-JUN-2015 17:31 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-5
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

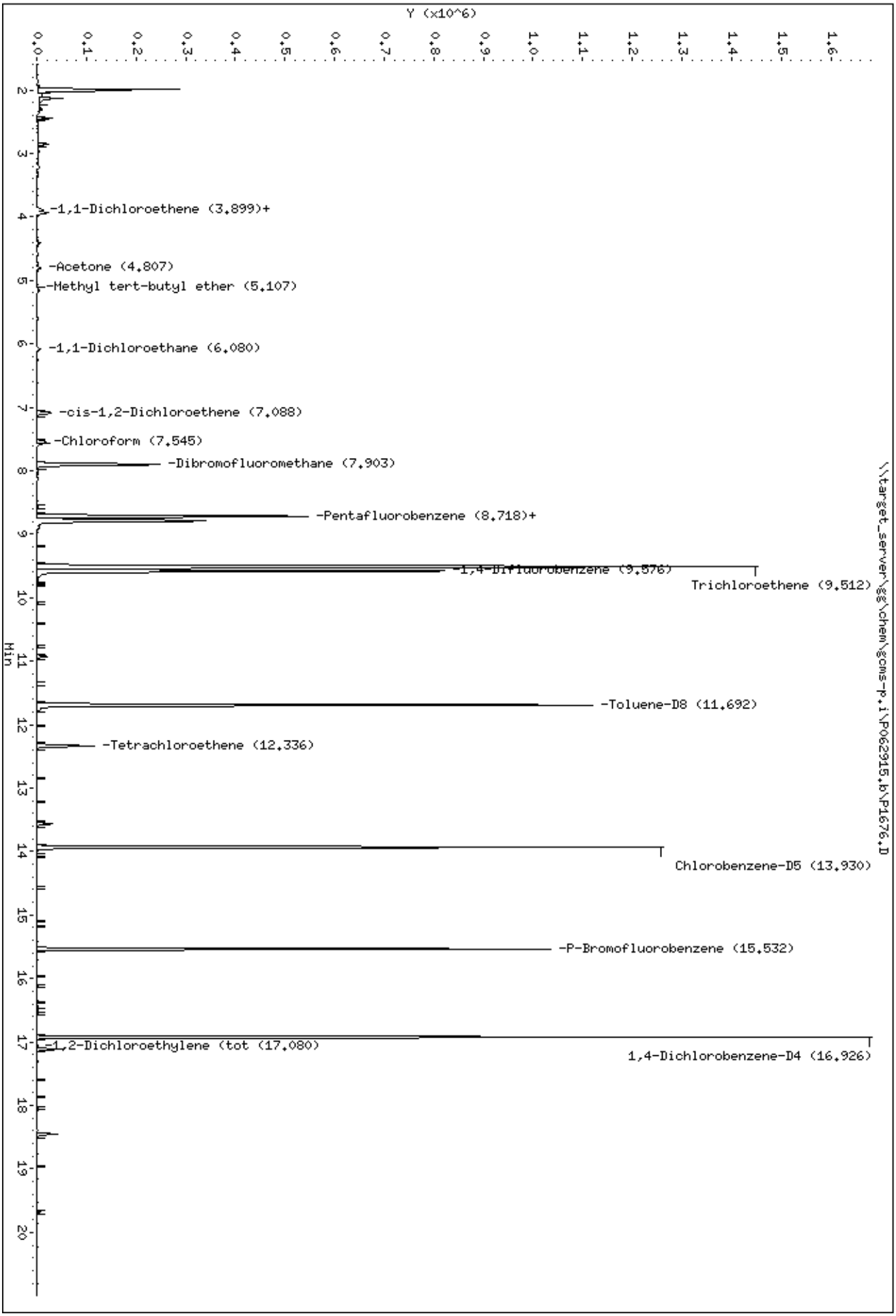
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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	3.898	3.889	(0.447)	3453	0.93059	0.93(a)	
	11 Freon-113	151	3.934	3.939	(0.451)	6806	2.87650	2.9	
	15 Acetone	43	4.806	4.804	(0.551)	10761	6.51348	6.5	
	19 Methyl tert-butyl ether	73	5.164	5.147	(0.592)	5419	0.43779	0.44(a)	
	25 1,1-Dichloroethane	63	6.079	6.084	(0.697)	7528	0.98035	0.98(a)	
	29 cis-1,2-Dichloroethene	96	7.094	7.085	(0.814)	14569	3.01218	3.0	
M	30 1,2-Dichloroethylene (total)	96				14569	3.01218	3.0	
	34 Chloroform	83	7.588	7.578	(0.870)	7091	0.90374	0.90(a)	
$	37 Dibromofluoromethane	113	7.895	7.900	(0.906)	183265	46.8906	46.9	
*	42 Pentafluorobenzene	168	8.717	8.715	(1.000)	361329	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.789	8.787	(1.008)	271670	49.4960	49.5	
	48 Trichloroethene	95	9.511	9.509	(0.993)	513136	118.832	119	
*	49 1,4-Difluorobenzene	114	9.583	9.573	(1.000)	673877	50.0000		
$	55 Toluene-D8	98	11.692	11.690	(1.220)	711111	47.7022	47.7	
	59 Tetrachloroethene	164	12.335	12.333	(0.886)	24389	8.26330	8.3	
*	66 Chlorobenzene-D5	117	13.930	13.935	(1.000)	594407	50.0000		
$	76 P-Bromofluorobenzene	95	15.532	15.537	(1.621)	303235	44.7181	44.7	
*	91 1,4-Dichlorobenzene-D4	152	16.926	16.924	(1.000)	325244	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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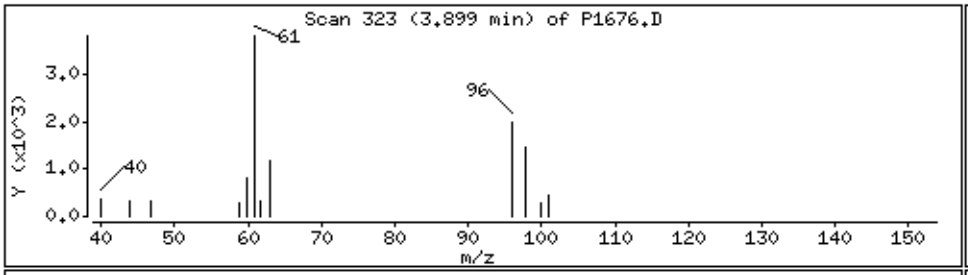
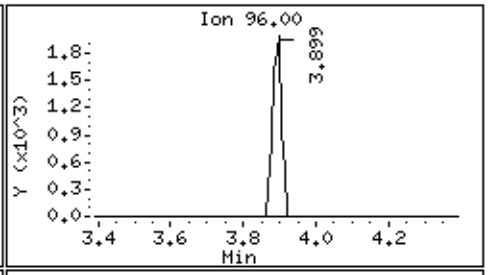
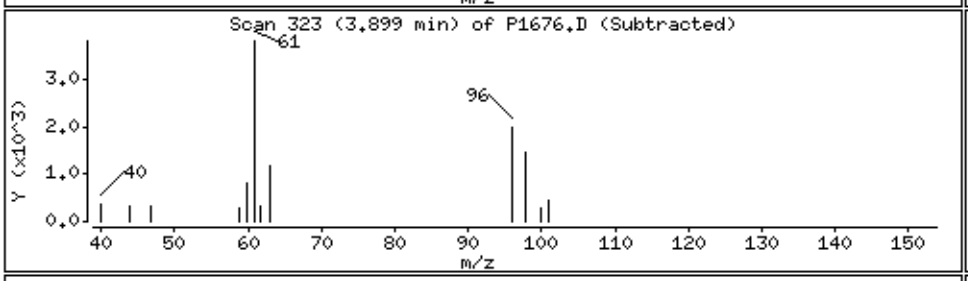
Date : 29-JUN-2015 17:31
Client ID: 159-062515-278-280
Sample Info: SI4557-5
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1676.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.899)+
-Acetone (4.807)
-Methyl tert-butyl ether (5.107)
-1,1-Dichloroethane (6.080)
-cis-1,2-Dichloroethene (7.088)
-Chloroform (7.545)
-Dibromofluoromethane (7.903)
-Pentafluorobenzene (8.718)+
-1,4-Difluorobenzene (9.576)
Trichloroethene (9.512)
-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)

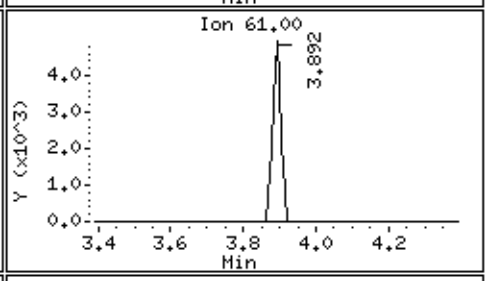
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1676.D
Date : 29-JUN-2015 17:31
Client ID: 159-062515-278-280 Instrument: gcms-p.i
Sample Info: SI4557-5

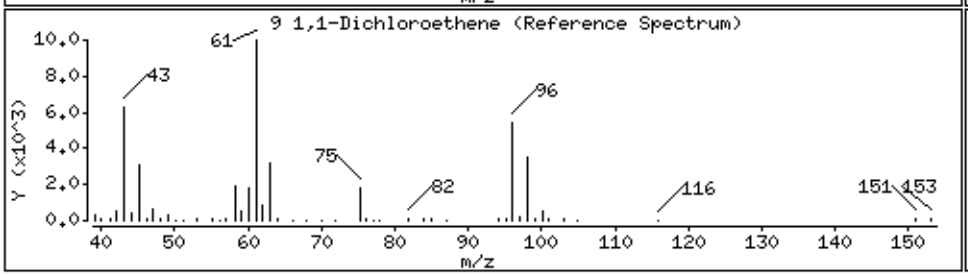
9 1,1-Dichloroethene Concentration: 0.93 ug/l

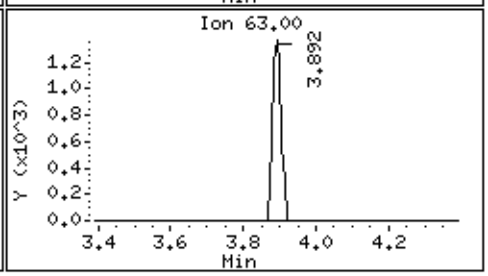




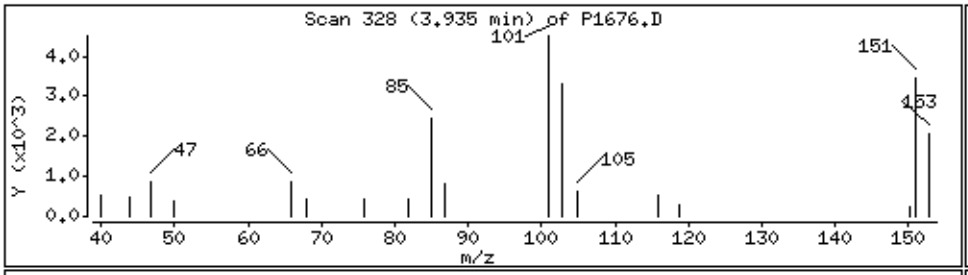


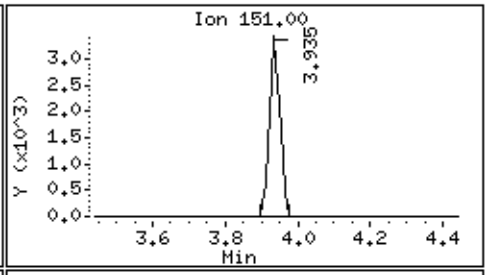


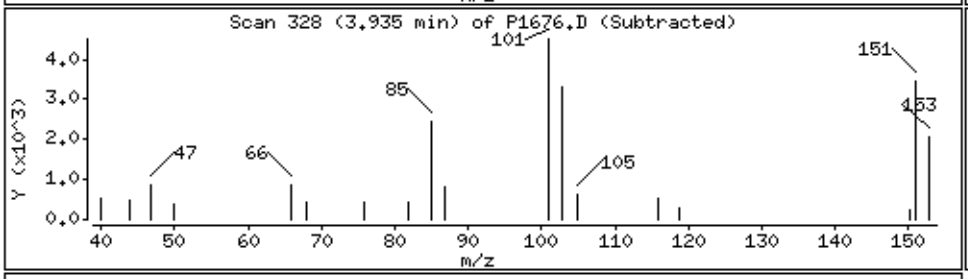


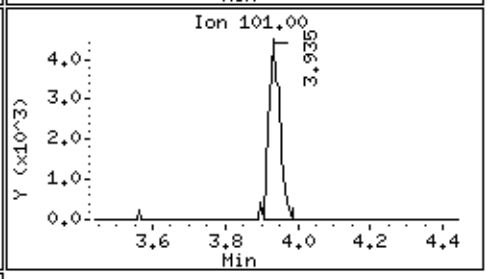


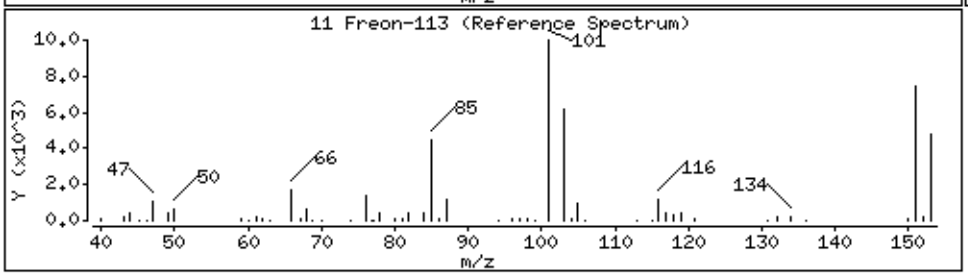
11 Freon-113 Concentration: 2.9 ug/l











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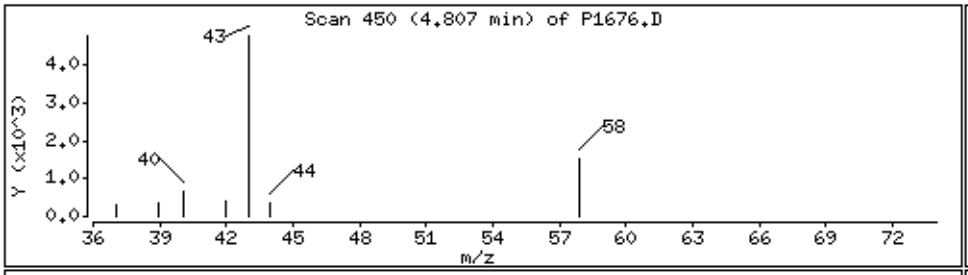
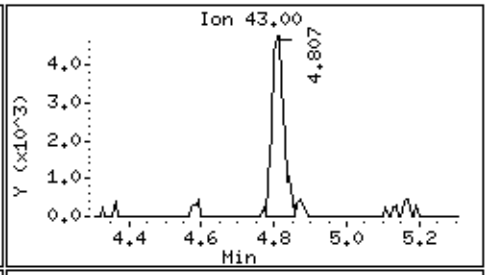
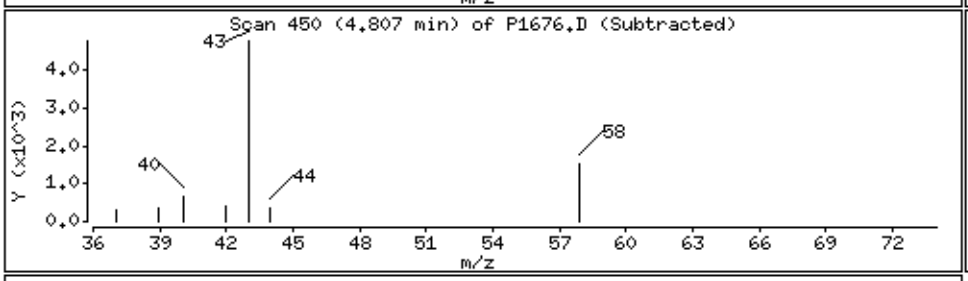
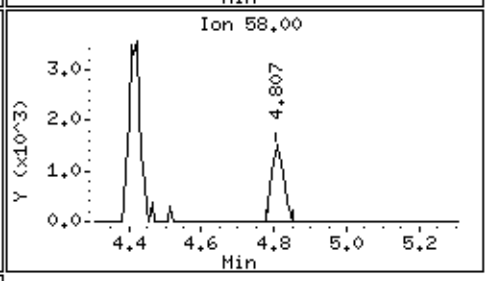
Date : 29-JUN-2015 17:31
Client ID: 159-062515-278-280 Instrument: gcms-p.i
Sample Info: SI4557-5

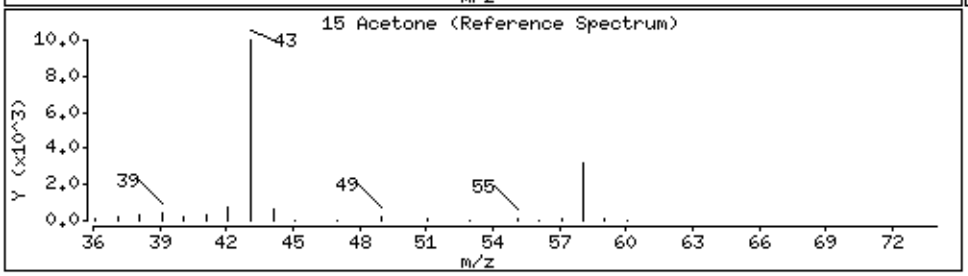
15 Acetone Concentration: 6.5 ug/l



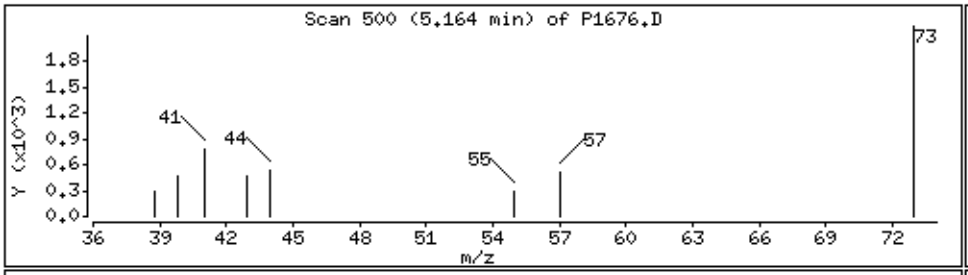


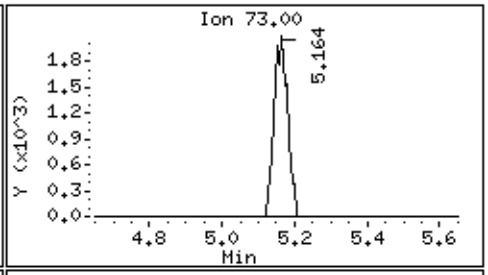


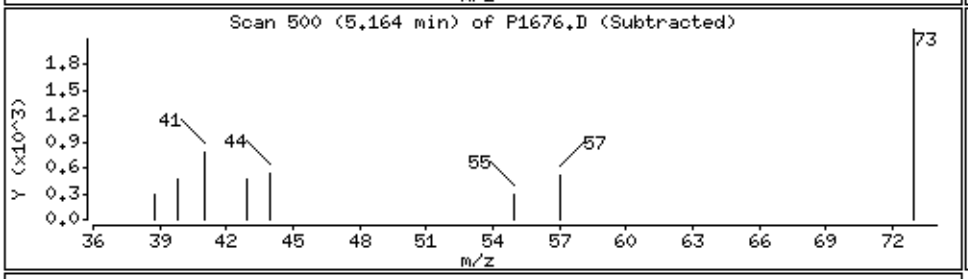


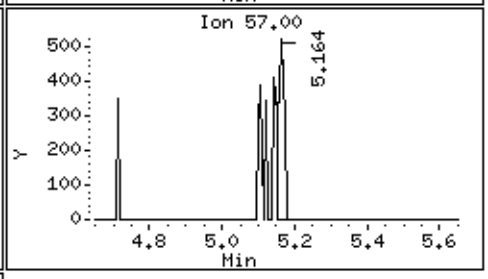


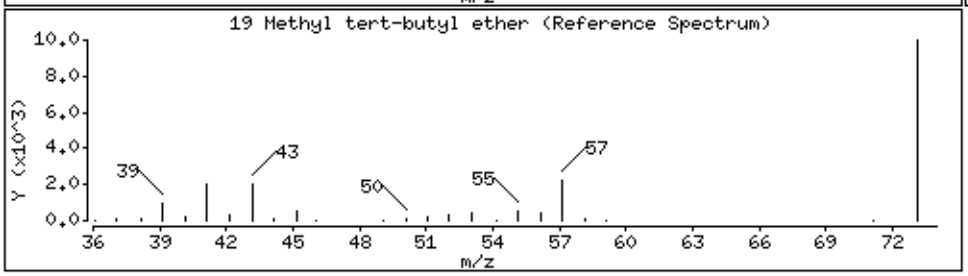
19 Methyl tert-butyl ether Concentration: 0.44 ug/l











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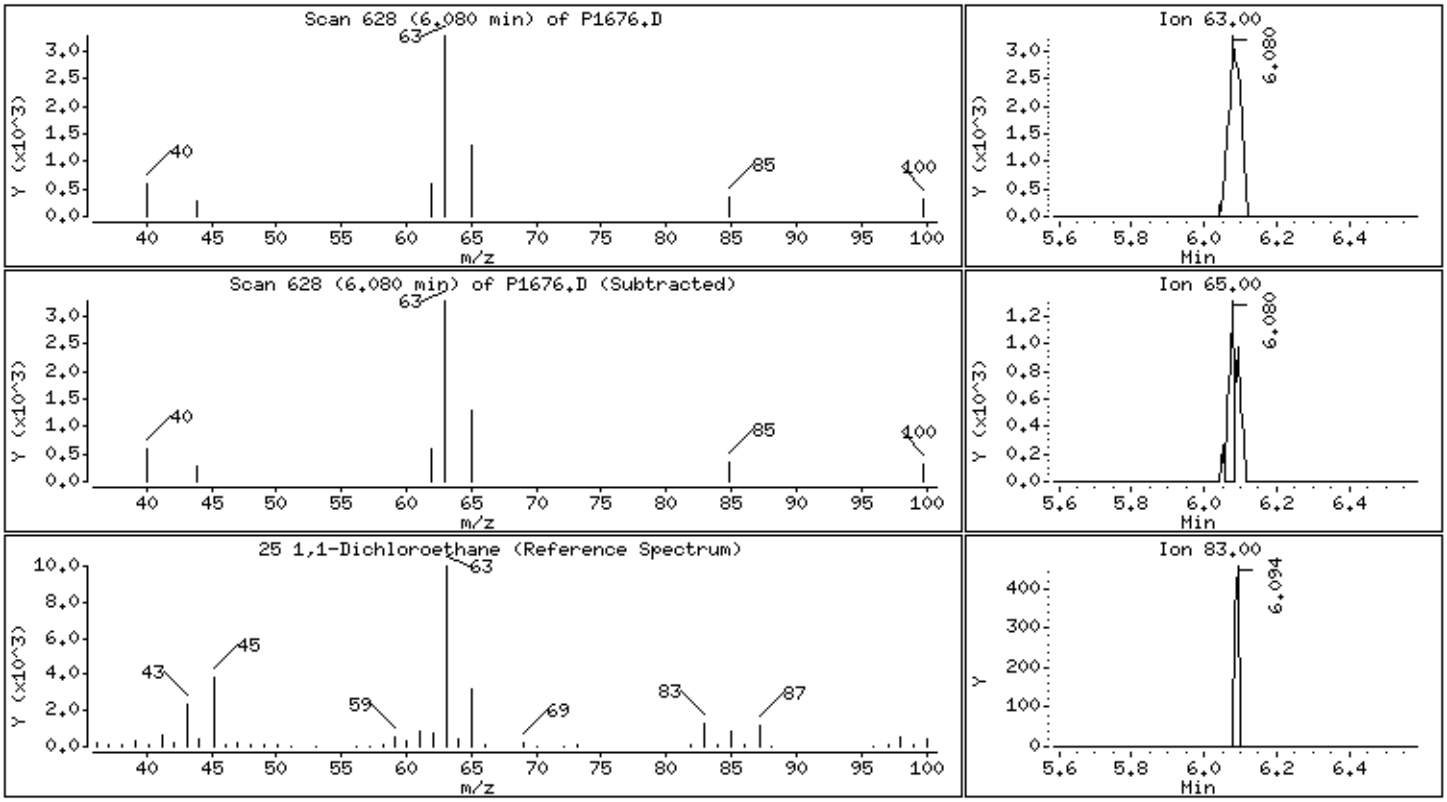
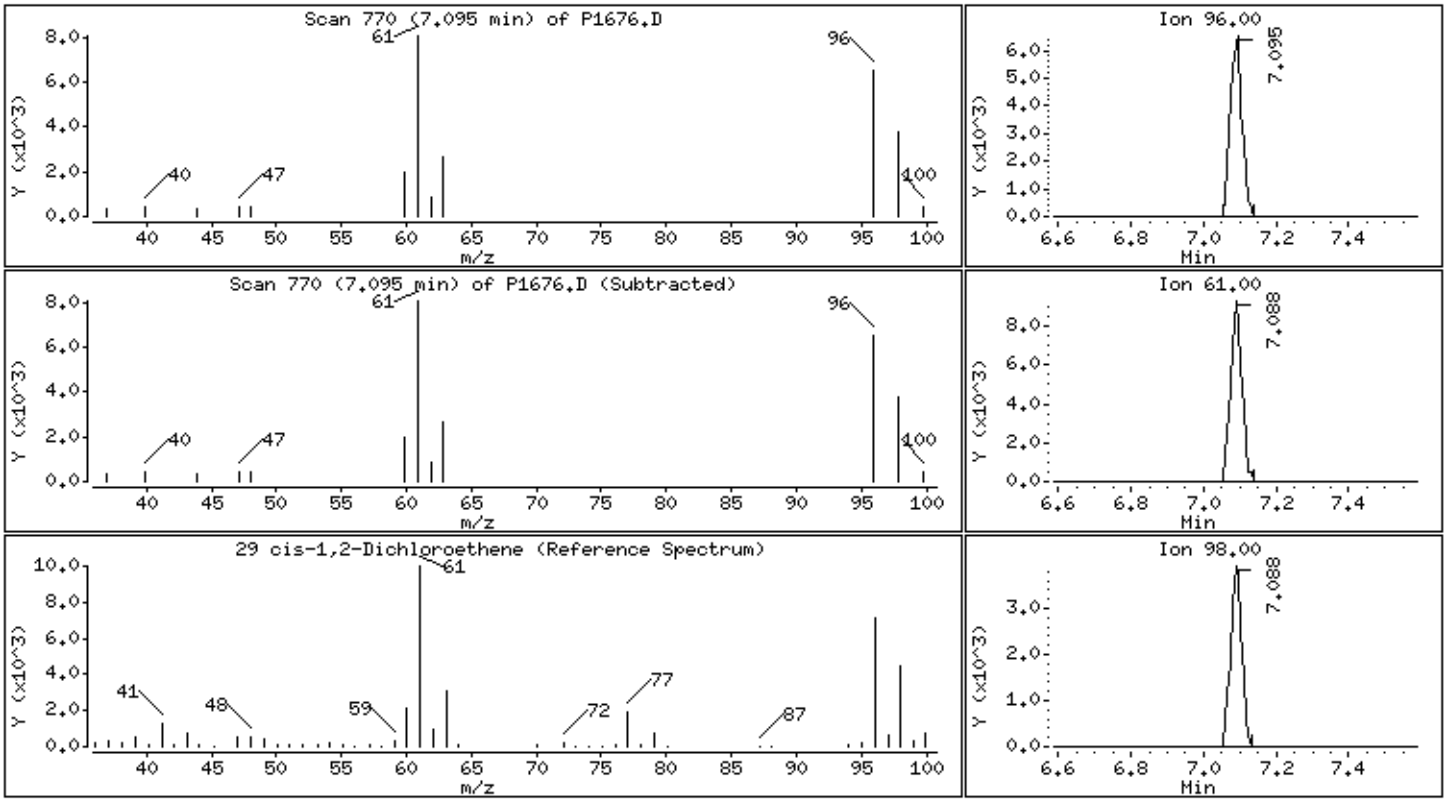
Date : 29-JUN-2015 17:31
Client ID: 159-062515-278-280 Instrument: gcms-p.i
Sample Info: SI4557-5

25 1,1-Dichloroethane Concentration: 0.98 ug/l



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



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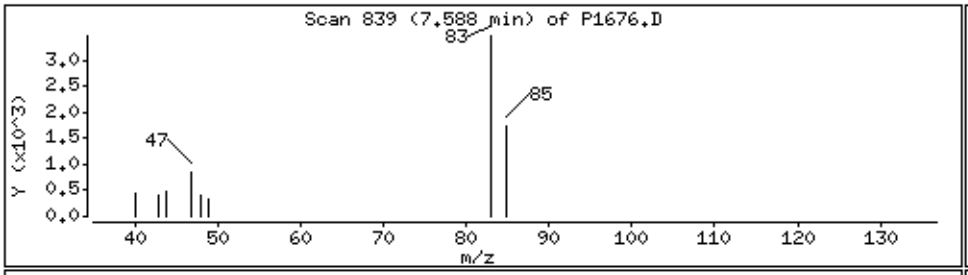
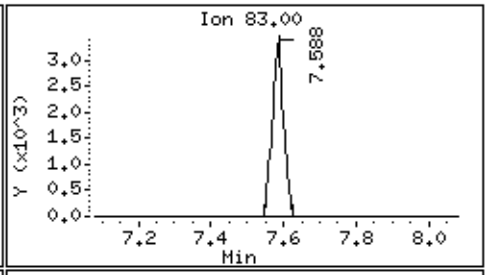
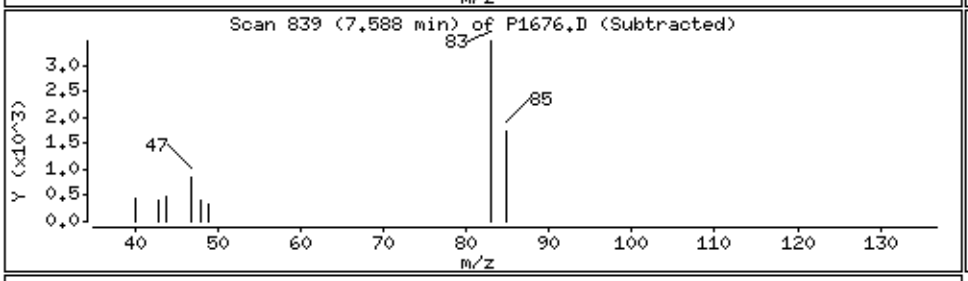
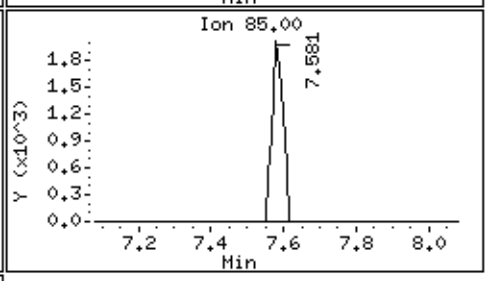
Date : 29-JUN-2015 17:31
Client ID: 159-062515-278-280 Instrument: gcms-p.i
Sample Info: SI4557-5

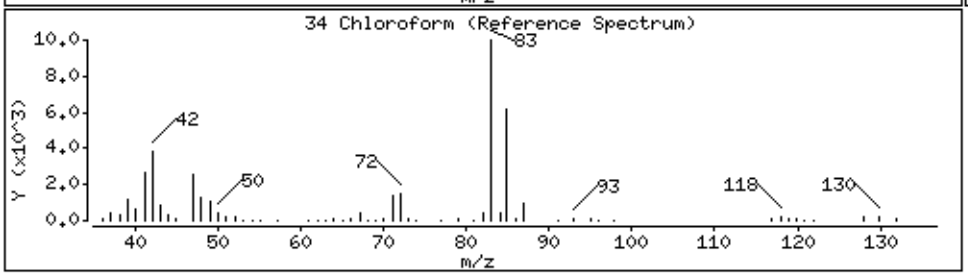
34 Chloroform Concentration: 0.90 ug/l



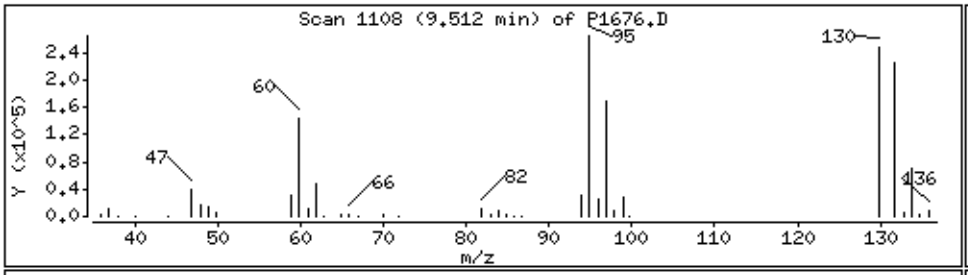


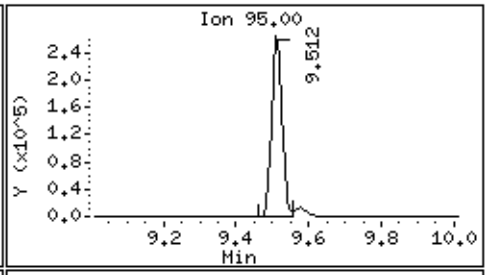


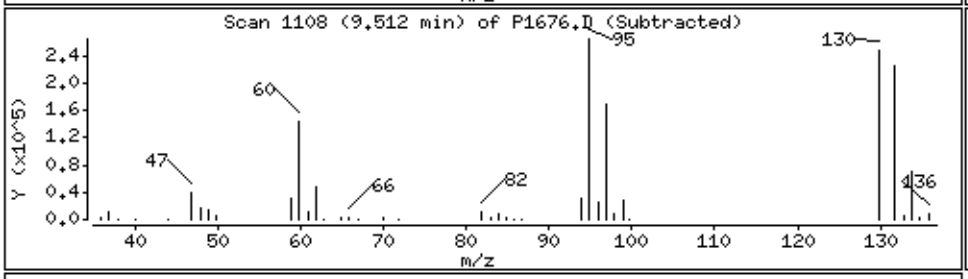


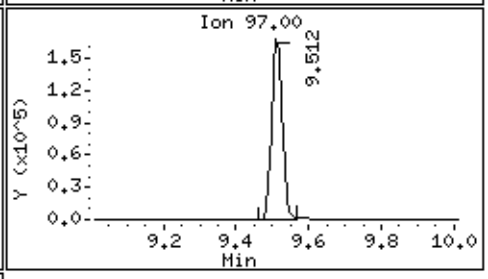


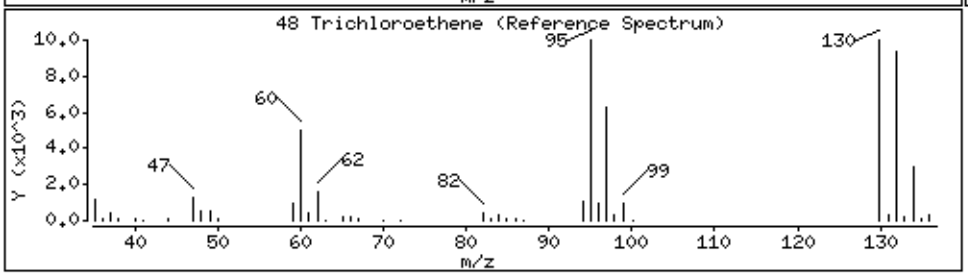
48 Trichloroethene Concentration: 119 ug/l











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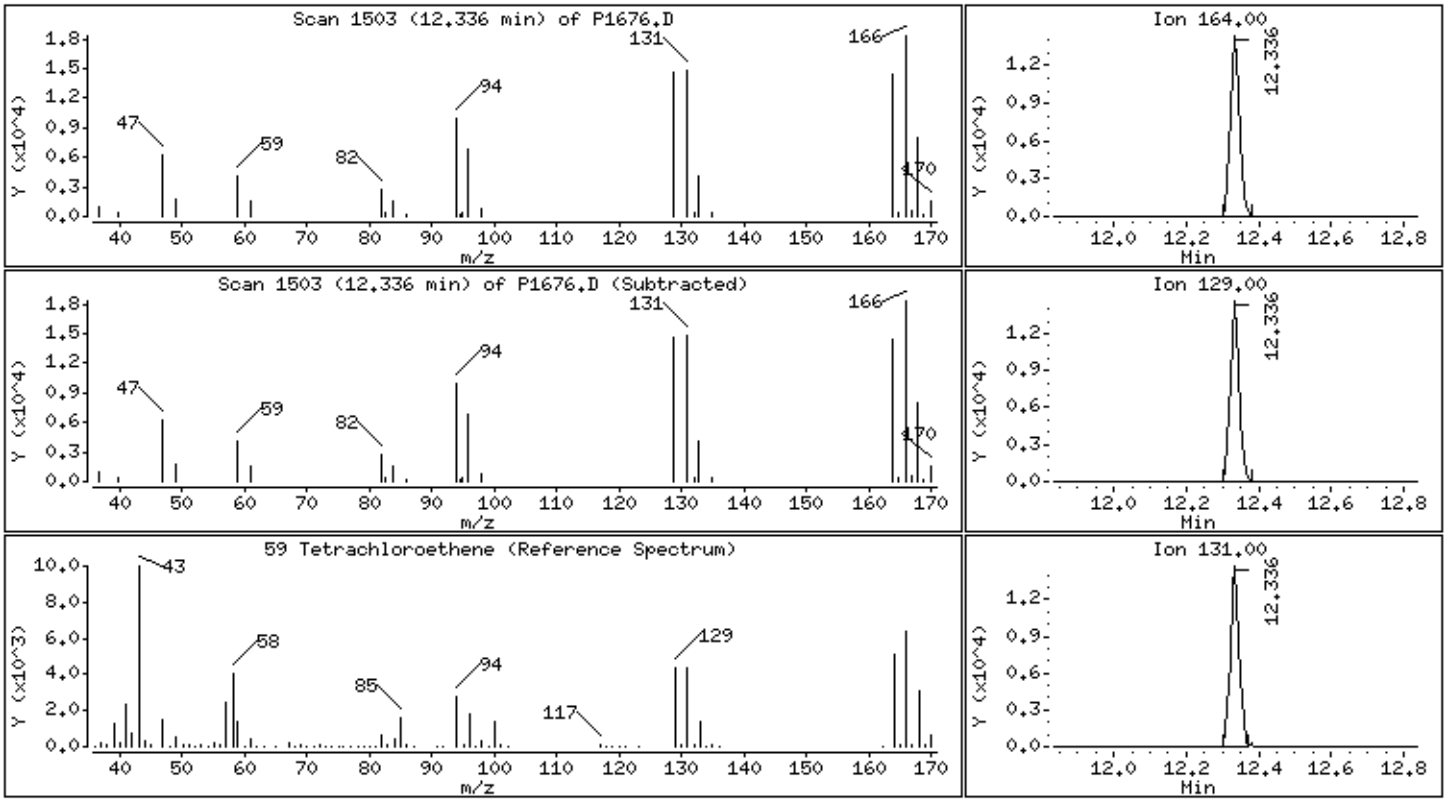
Date : 29-JUN-2015 17:31

Client ID: 159-062515-278-280 Instrument: gcms-p.i

Sample Info: SI4557-5

59 Tetrachloroethene Concentration: 8.3 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-6
Client ID: 159-062515-298-300
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1671.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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	J	0.37	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		13	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	0.51	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.38	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	J	3.1	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		18	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		1.5	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: SI4557-6
Client ID: 159-062515-298-300
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1671.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)	J	0.51	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		93.5	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		104.	%					
Dibromofluoromethane		96.8	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1671.D
Report Date: 30-Jun-2015 10:42

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1671.D
Lab Smp Id: SI4557-6 Client Smp ID: 159-062515-298-300
Inj Date : 29-JUN-2015 15:21 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-6
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

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

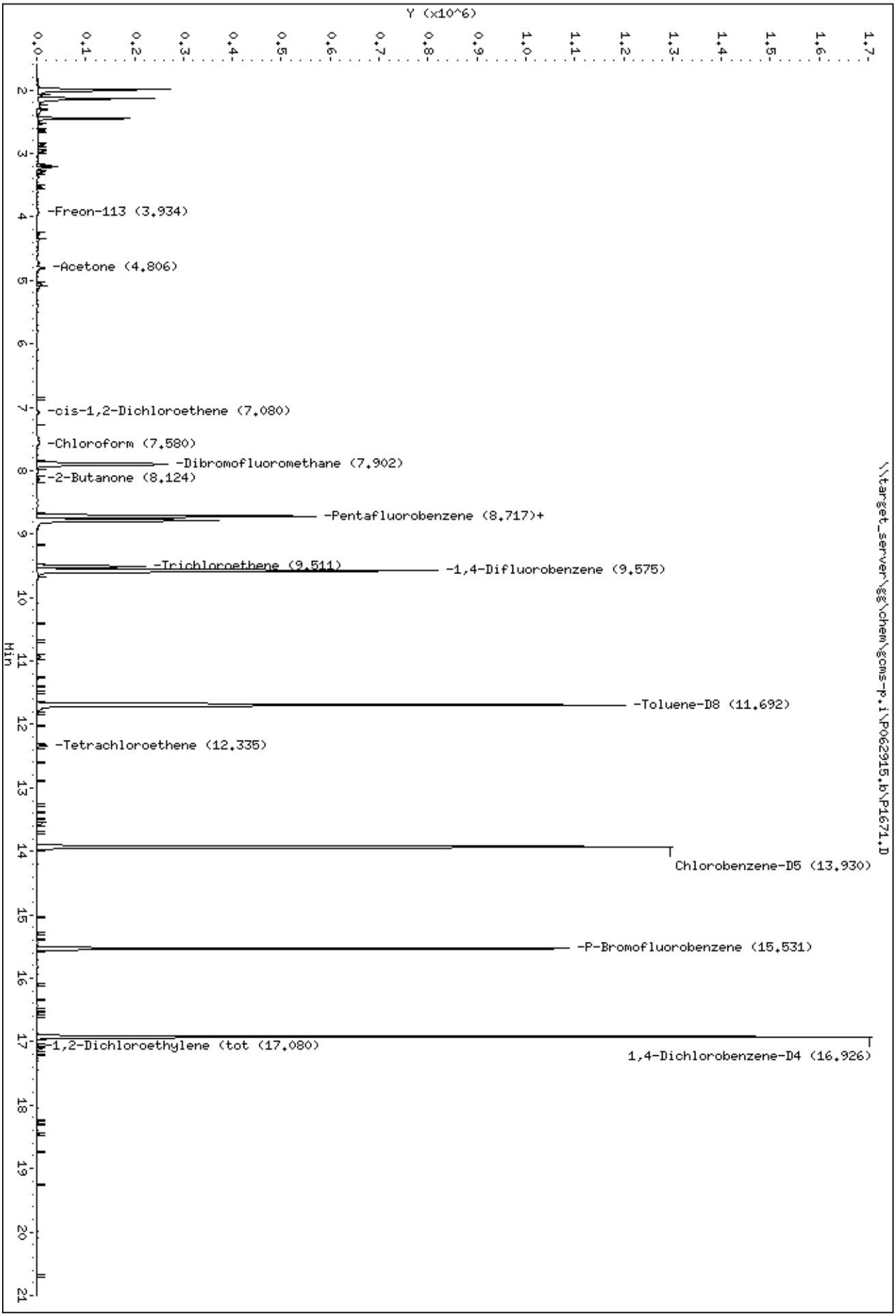
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	11 Freon-113	151	3.933	3.939	(0.451)	919	0.37437	0.37(aM)	M9
	15 Acetone	43	4.806	4.804	(0.551)	21599	12.6012	12.6	
	29 cis-1,2-Dichloroethene	96	7.079	7.085	(0.812)	2560	0.51016	0.51(a)	
M	30 1,2-Dichloroethylene (total)	96				2560	0.51016	0.51(a)	
	34 Chloroform	83	7.580	7.578	(0.870)	3054	0.37517	0.38(a)	
$	37 Dibromofluoromethane	113	7.902	7.900	(0.906)	196164	48.3776	48.4	
	40 2-Butanone	43	8.123	8.115	(0.932)	6642	3.12140	3.1(a)	
*	42 Pentafluorobenzene	168	8.717	8.715	(1.000)	374873	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.788	8.787	(1.008)	294969	51.7992	51.8	
	48 Trichloroethene	95	9.510	9.509	(0.993)	78943	17.8239	17.8	
*	49 1,4-Difluorobenzene	114	9.582	9.573	(1.000)	691182	50.0000		
$	55 Toluene-D8	98	11.691	11.690	(1.220)	766549	50.1337	50.1	
	59 Tetrachloroethene	164	12.335	12.333	(0.886)	4550	1.49963	1.5	
*	66 Chlorobenzene-D5	117	13.929	13.935	(1.000)	611041	50.0000		
$	76 P-Bromofluorobenzene	95	15.531	15.537	(1.621)	325103	46.7427	46.7	
*	91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	337261	50.0000		

REC
2:04 pm, Jul 08, 2015

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.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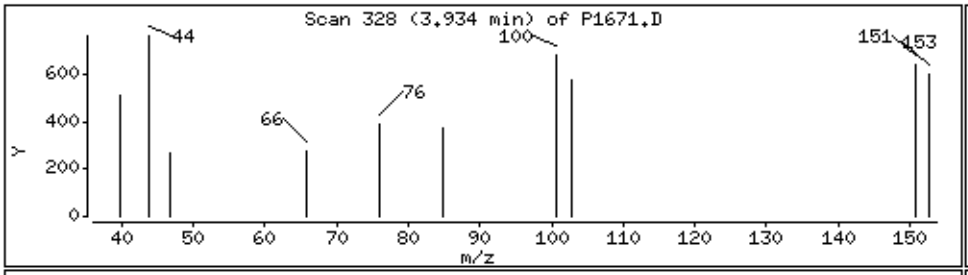
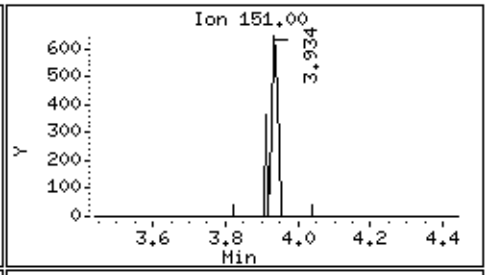
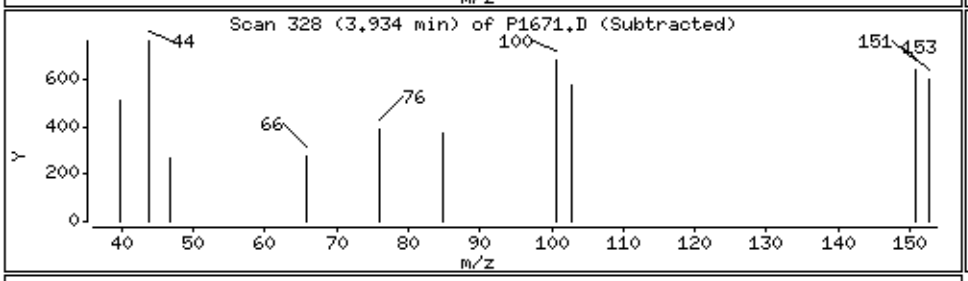
Date : 29-JUN-2015 15:21
Client ID: 159-062515-298-300
Sample Info: SI4557-6
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1671.D
Y (x10^6)
Min
-Freon-113 (3.934)
-Acetone (4.806)
-cis-1,2-Dichloroethene (7.080)
-Chloroform (7.580)
-Dibromofluoromethane (7.902)
-2-Butanone (8.124)
-Pentafluorobenzene (8.717)+
-Trichloroethene (9.511)
-1,4-Difluorobenzene (9.575)
-Toluene-D8 (11.692)
-Tetrachloroethene (12.335)
Chlorobenzene-D5 (13.930)
-P-Bromofluorobenzene (15.531)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.926)

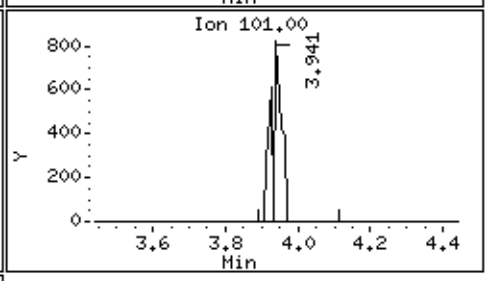
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1671.D
Date : 29-JUN-2015 15:21
Client ID: 159-062515-298-300 Instrument: gcms-p.i
Sample Info: SI4557-6

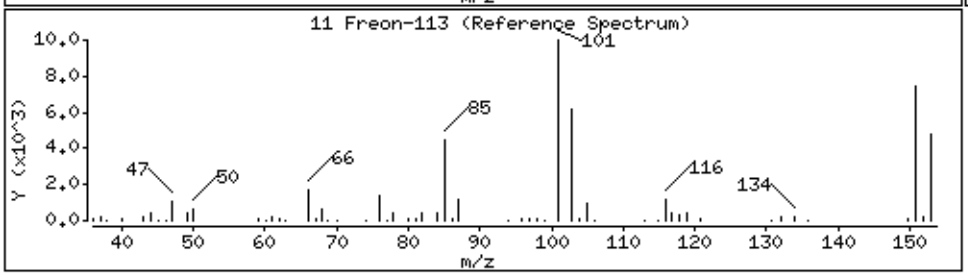
11 Freon-113 Concentration: 0.37 ug/l



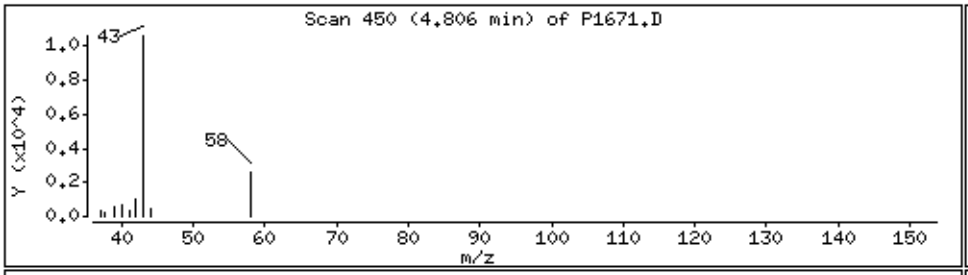


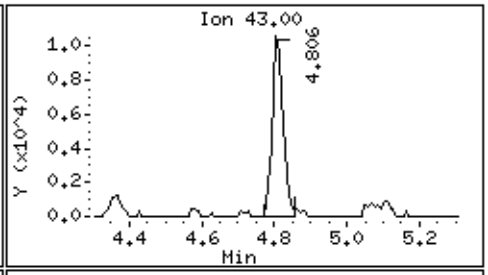


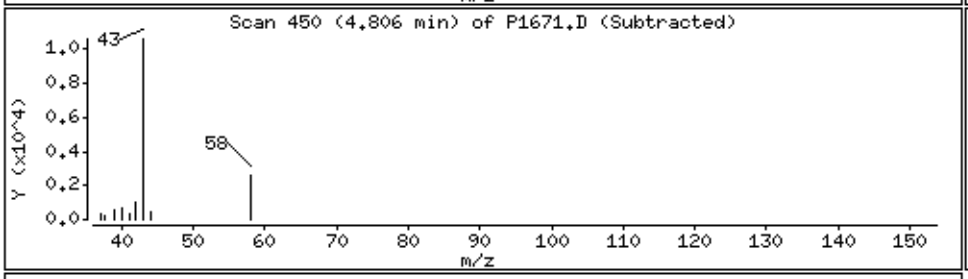


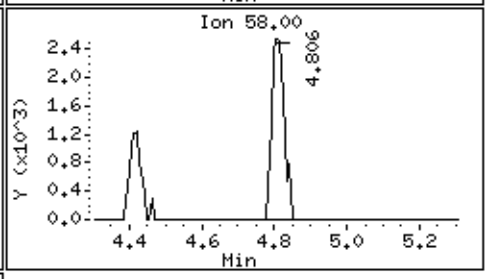


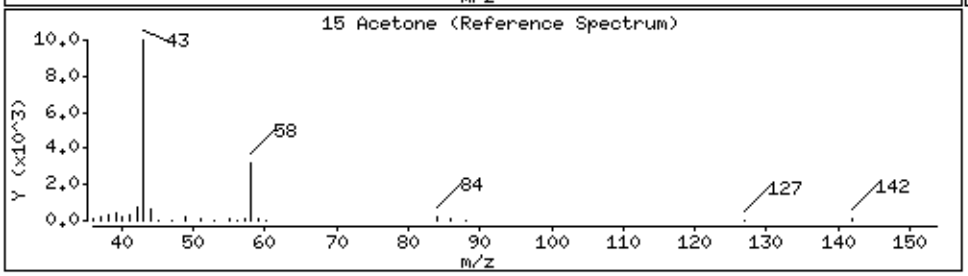
15 Acetone Concentration: 12.6 ug/l











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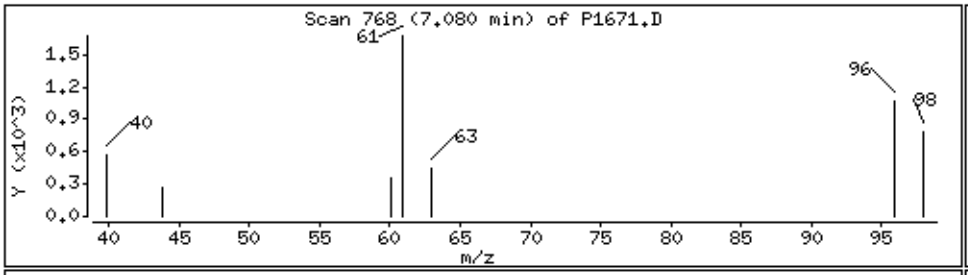
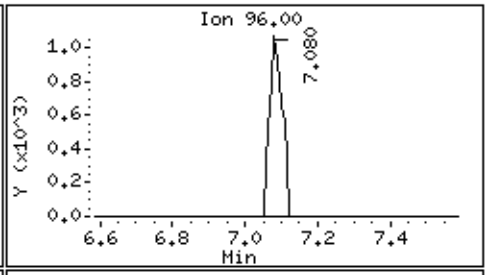
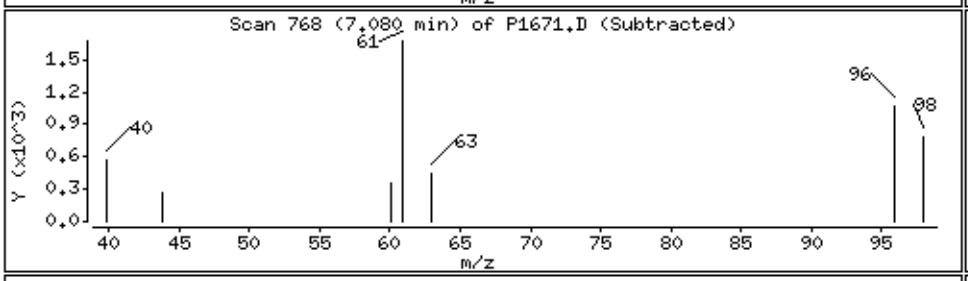
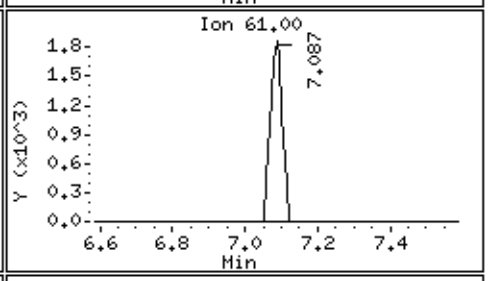
Date : 29-JUN-2015 15:21
Client ID: 159-062515-298-300 Instrument: gcms-p.i
Sample Info: SI4557-6

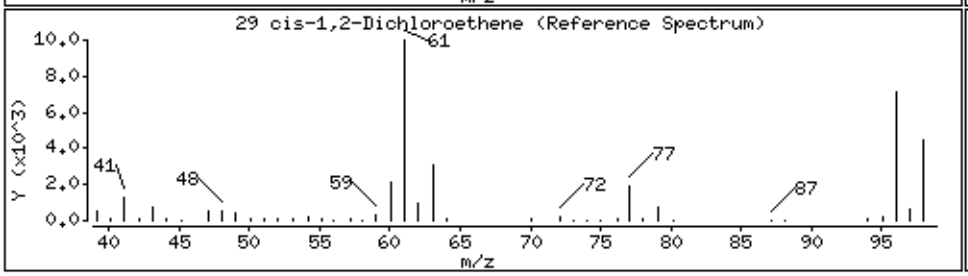
29 cis-1,2-Dichloroethene Concentration: 0.51 ug/l

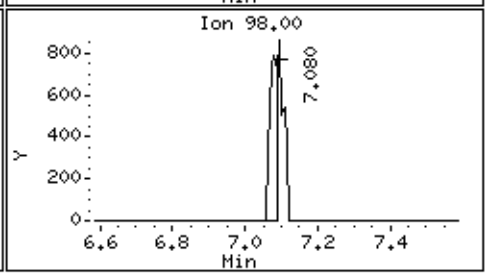




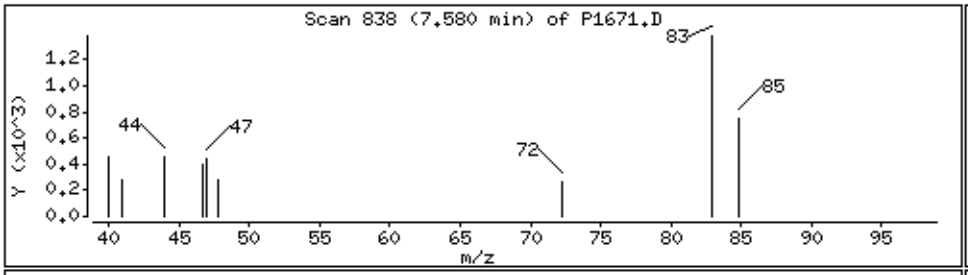


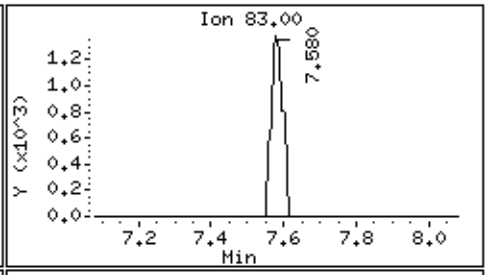


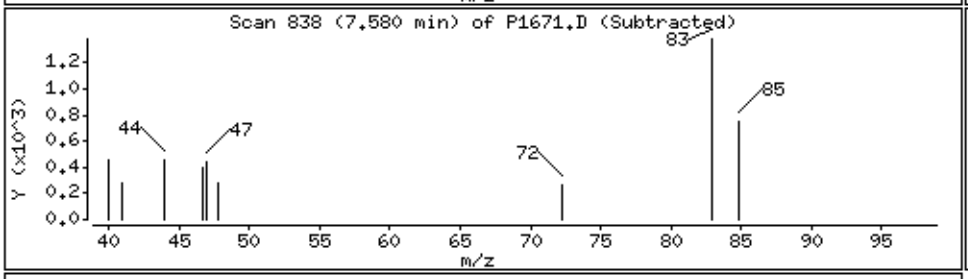


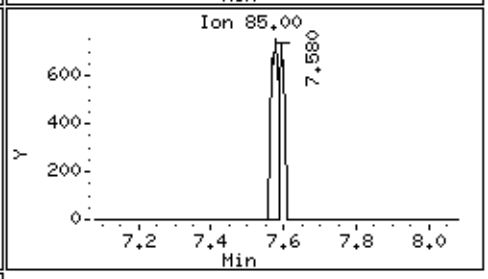


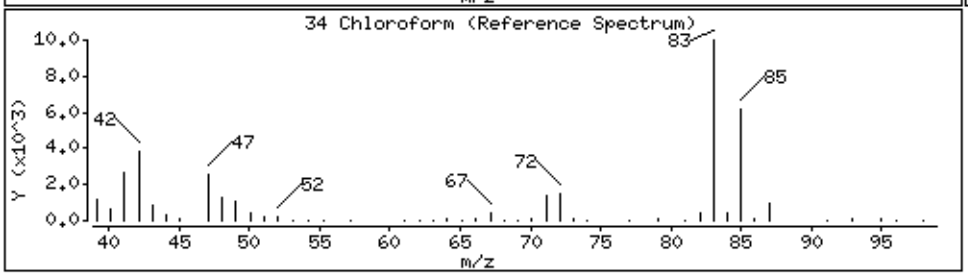
34 Chloroform Concentration: 0.38 ug/l





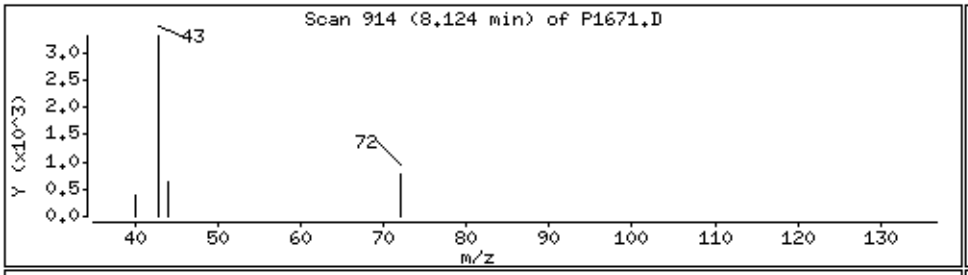


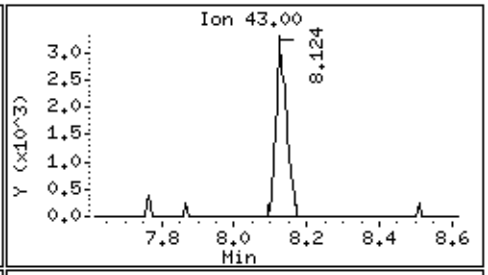


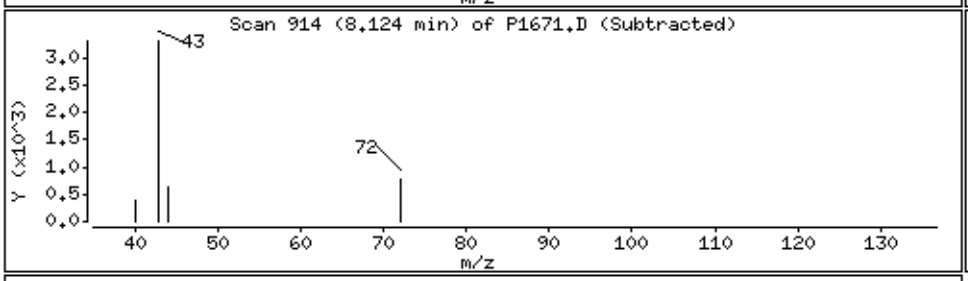


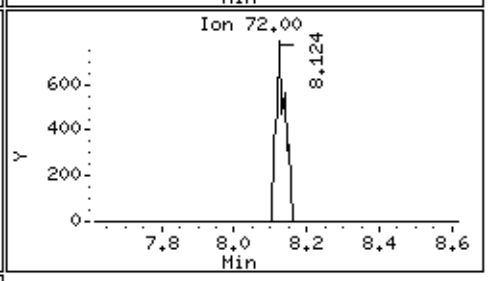
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1671.D
Date : 29-JUN-2015 15:21
Client ID: 159-062515-298-300 Instrument: gcms-p.i
Sample Info: SI4557-6

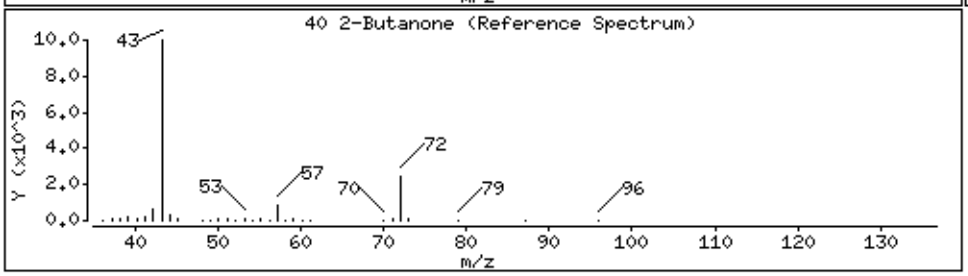
40 2-Butanone Concentration: 3.1 ug/l



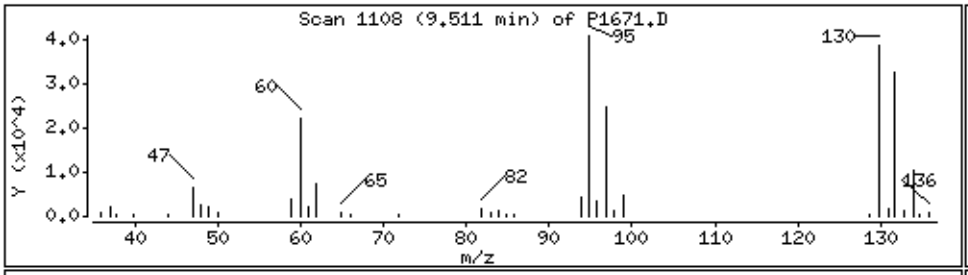


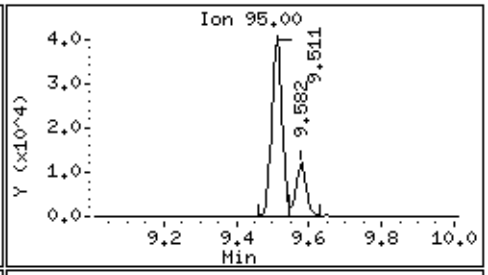


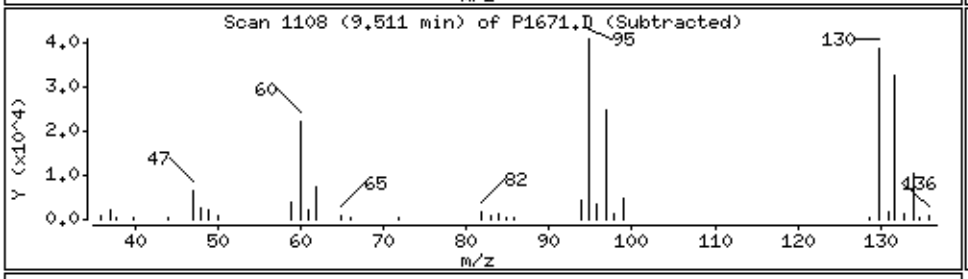


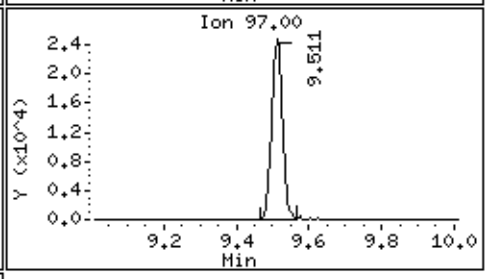


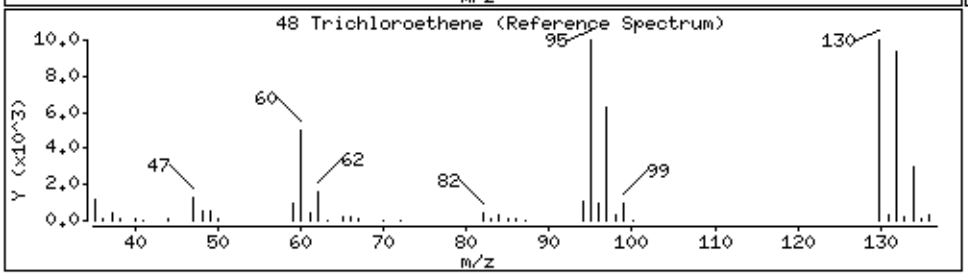
48 Trichloroethene Concentration: 17.8 ug/l











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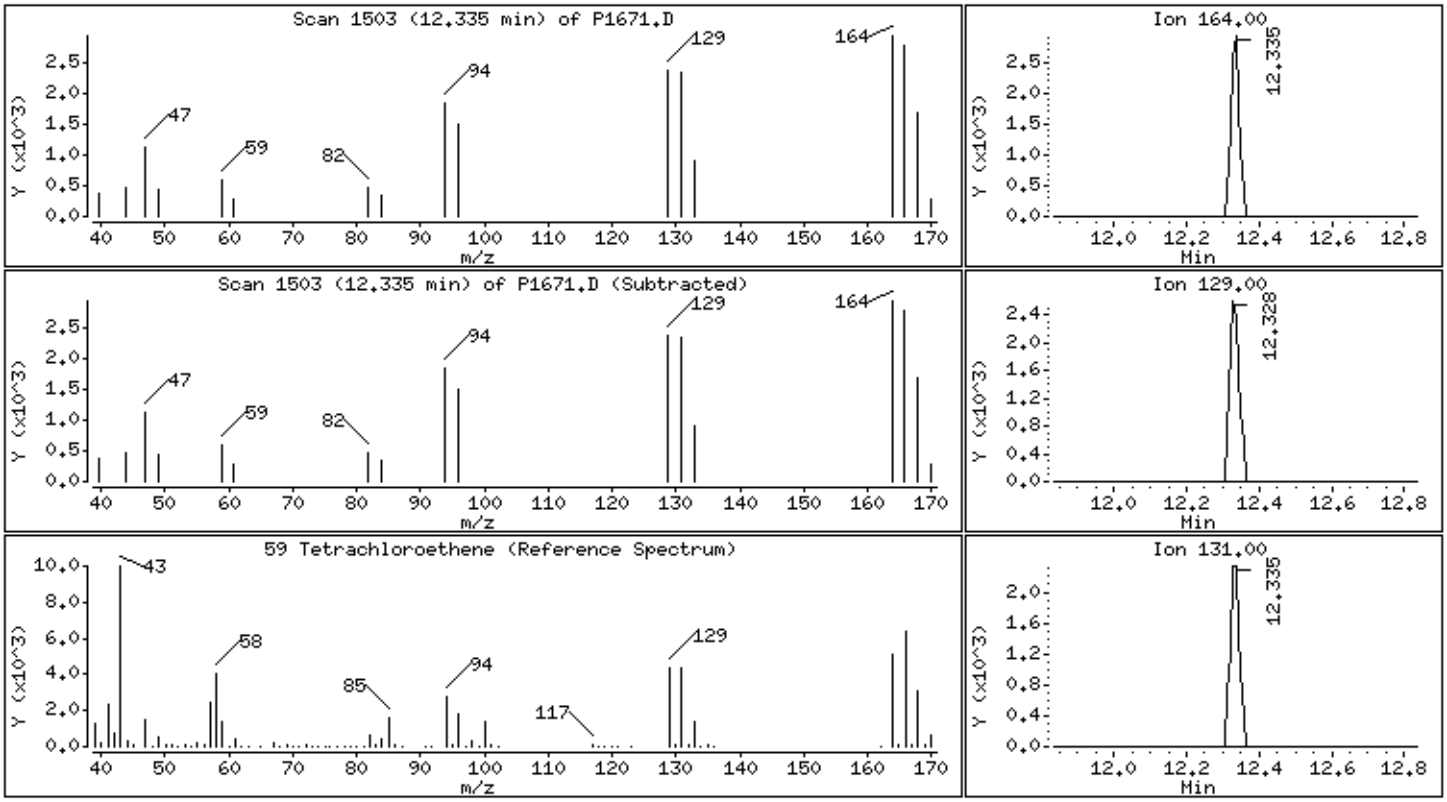
Date : 29-JUN-2015 15:21

Client ID: 159-062515-298-300 Instrument: gcms-p.i

Sample Info: SI4557-6

59 Tetrachloroethene Concentration: 1.5 ug/l



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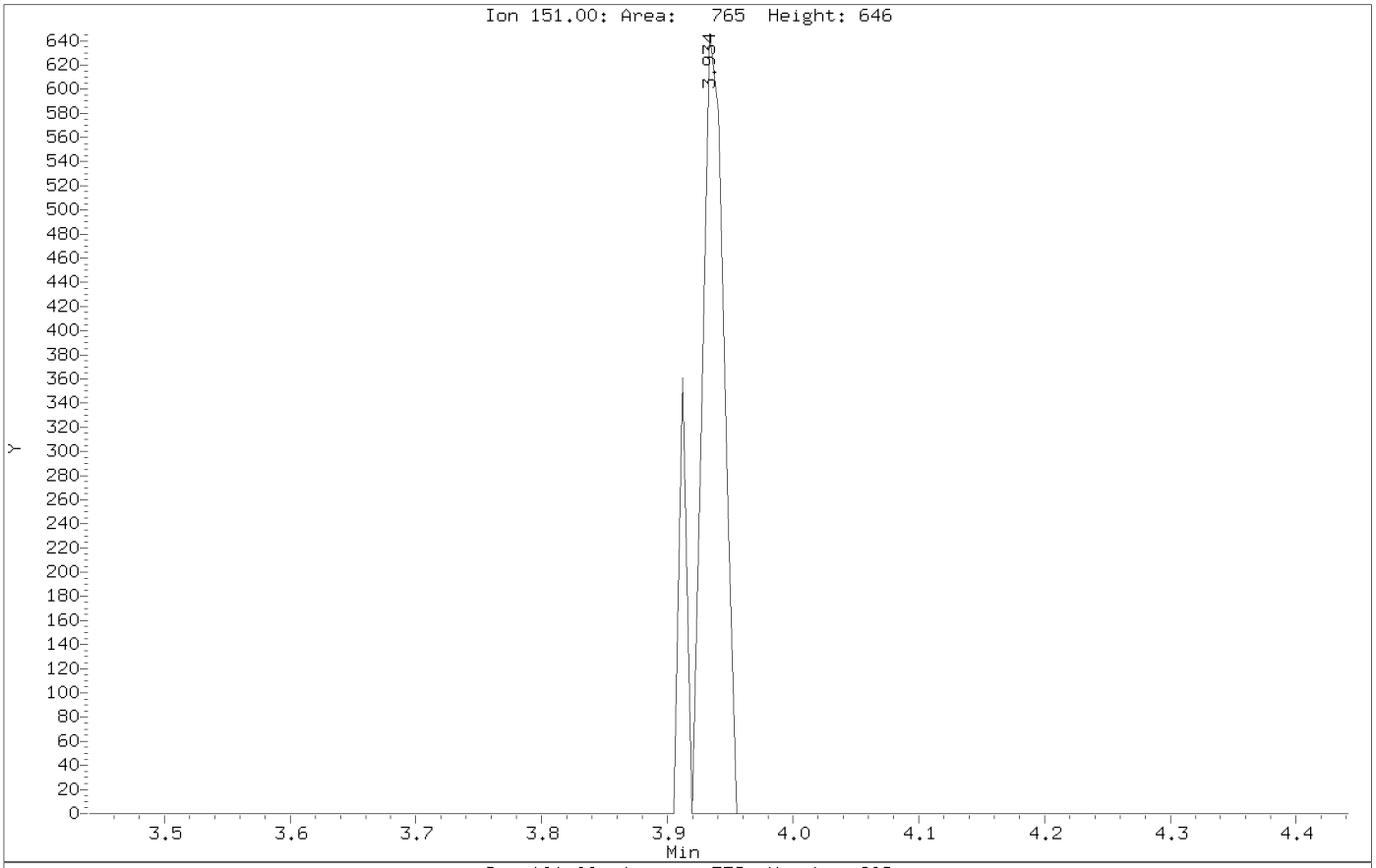
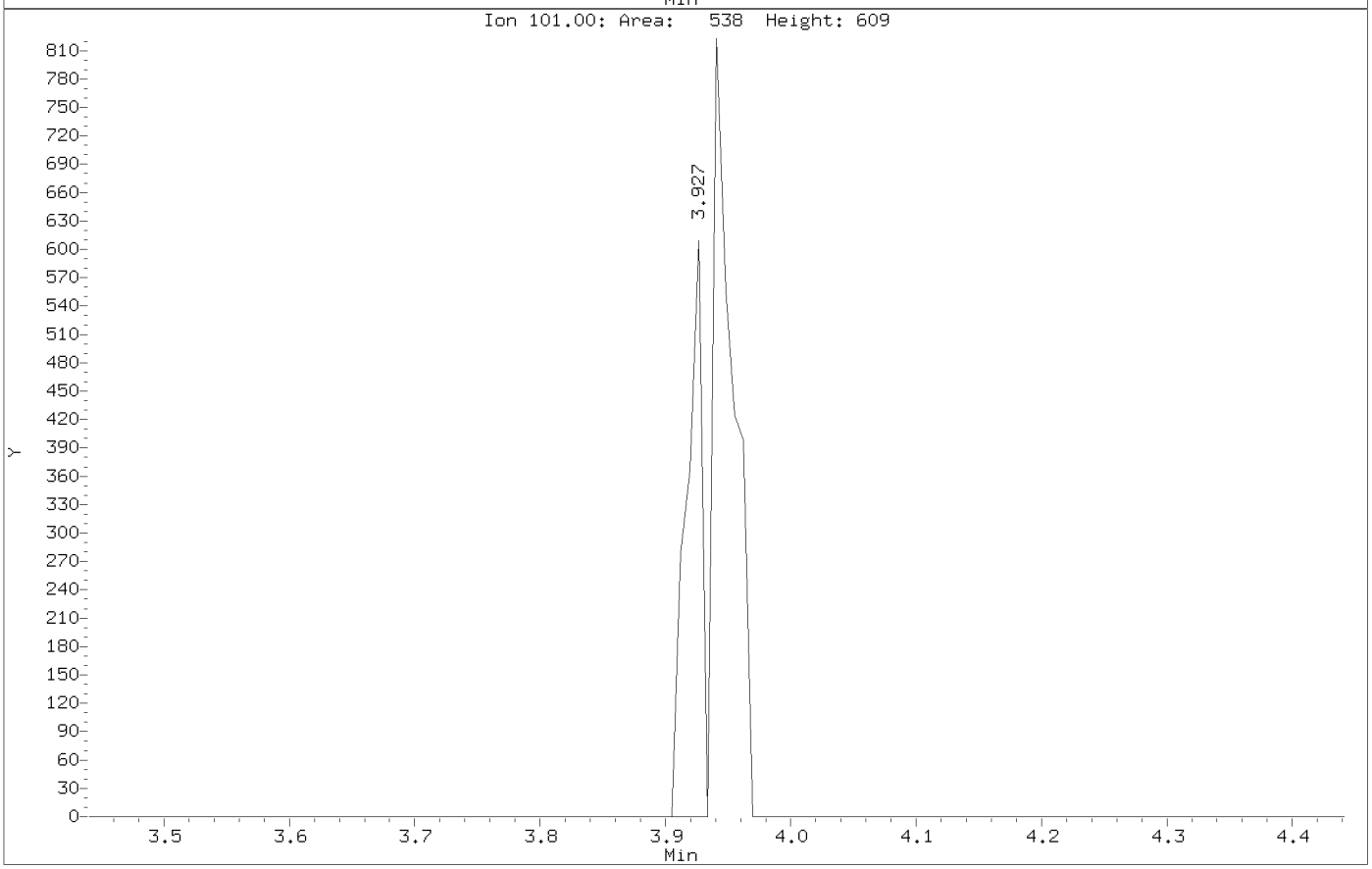
Injection Date: 29-JUN-2015 15:21
Instrument: gcms-p.i
Client Sample ID: 159-062515-298-300

BEFORE MANUAL INTEGRATION

Compound: Freon-113
CAS Number: 76-13-1





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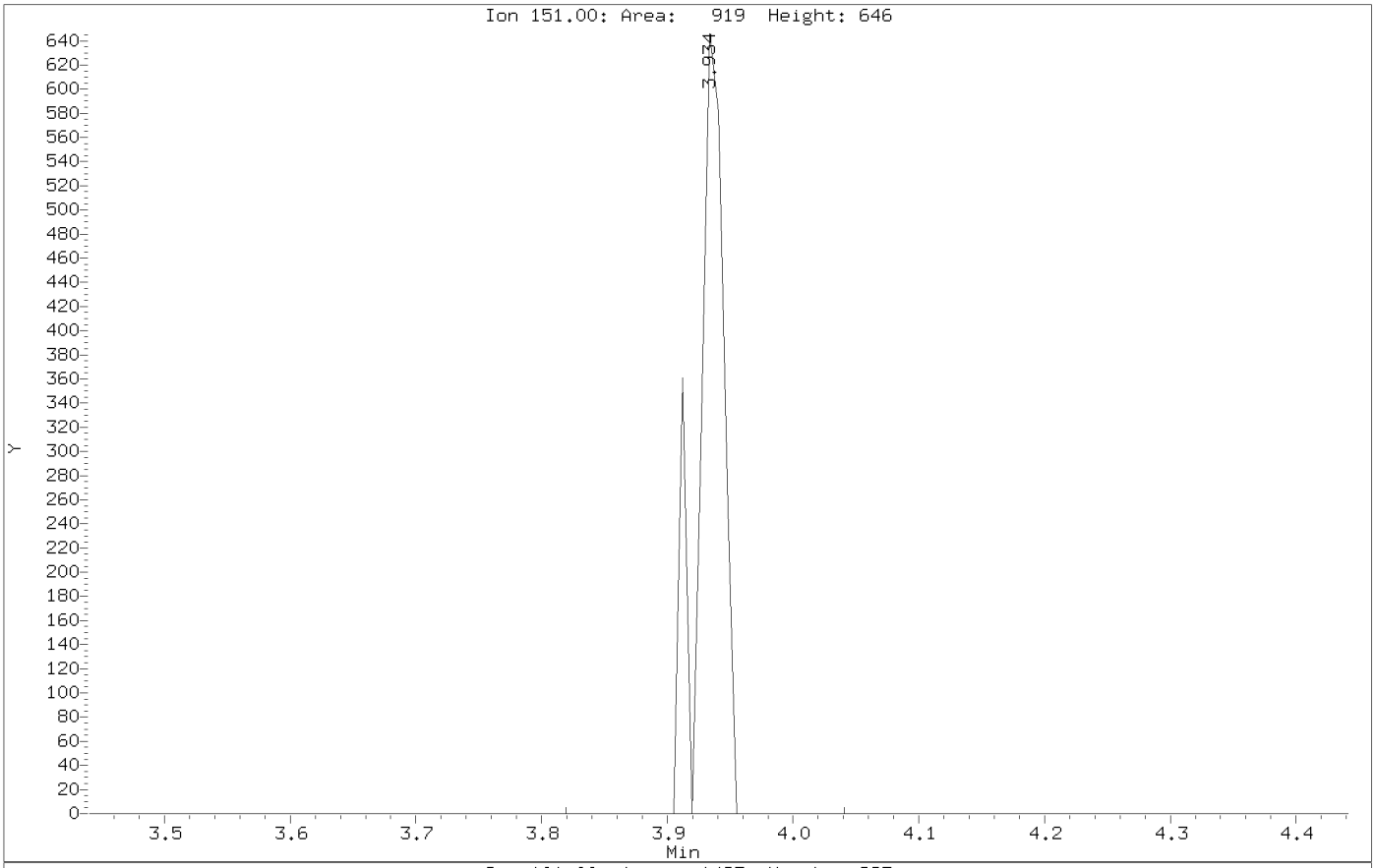
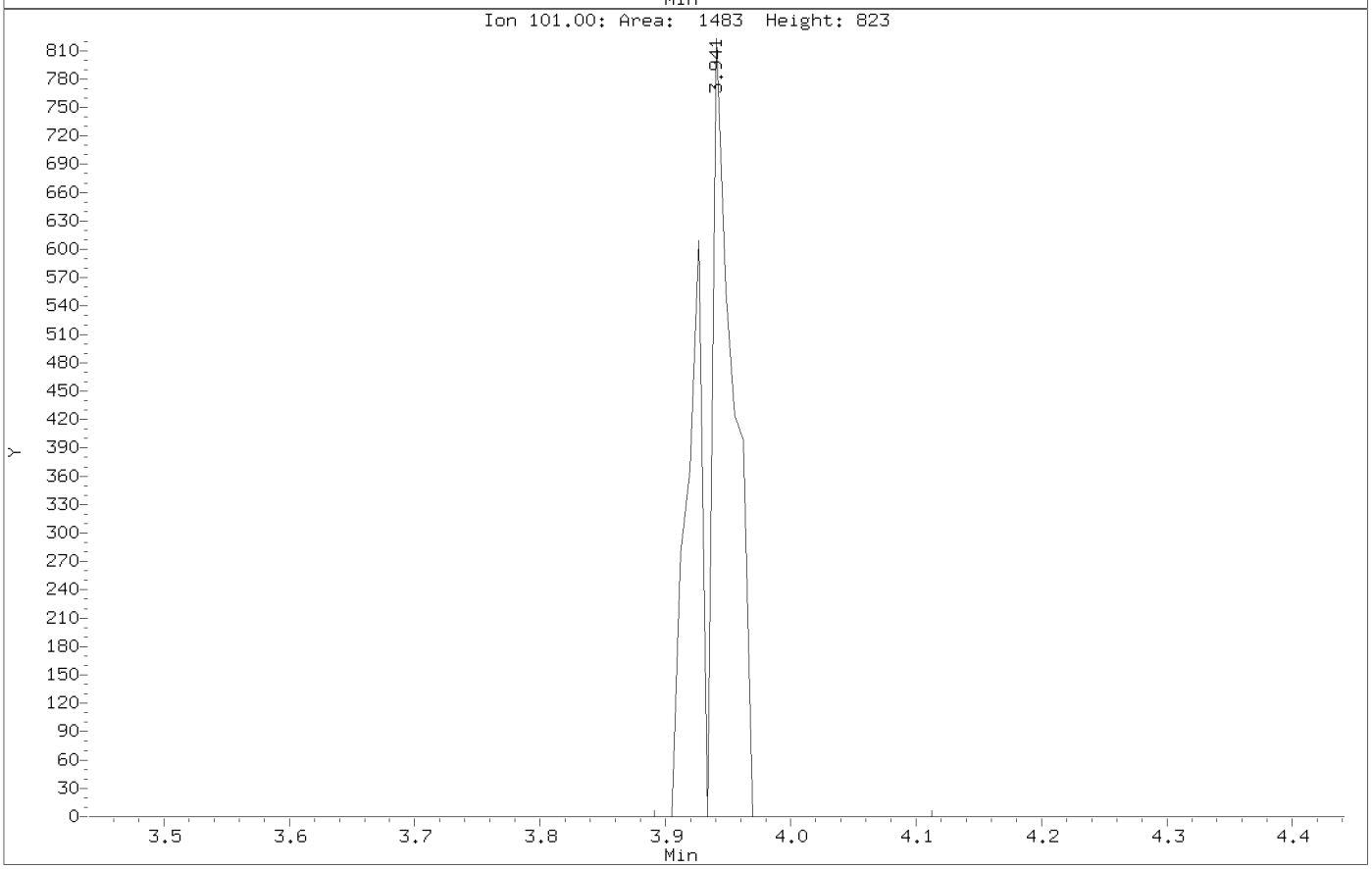
Injection Date: 29-JUN-2015 15:21
Instrument: gcms-p.i
Client Sample ID: 159-062515-298-300

Compound: Freon-113
CAS Number: 76-13-1

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-7
Client ID: VPB159-GWD-062515
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1677.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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	J	0.95	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		2.9	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		6.6	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	J	0.37	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	J	0.97	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		2.8	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.83	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	J	1.4	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		8.8	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: SI4557-7
Client ID: VPB159-GWD-062515
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1677.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)		2.8	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		92.4	%					
Toluene-d8		97.0	%					
1,2-Dichloroethane-d4		103.	%					
Dibromofluoromethane		96.1	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1677.D
Report Date: 30-Jun-2015 10:43

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1677.D
Lab Smp Id: SI4557-7 Client Smp ID: VPB159-GWD-062515
Inj Date : 29-JUN-2015 17:57 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-7
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 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

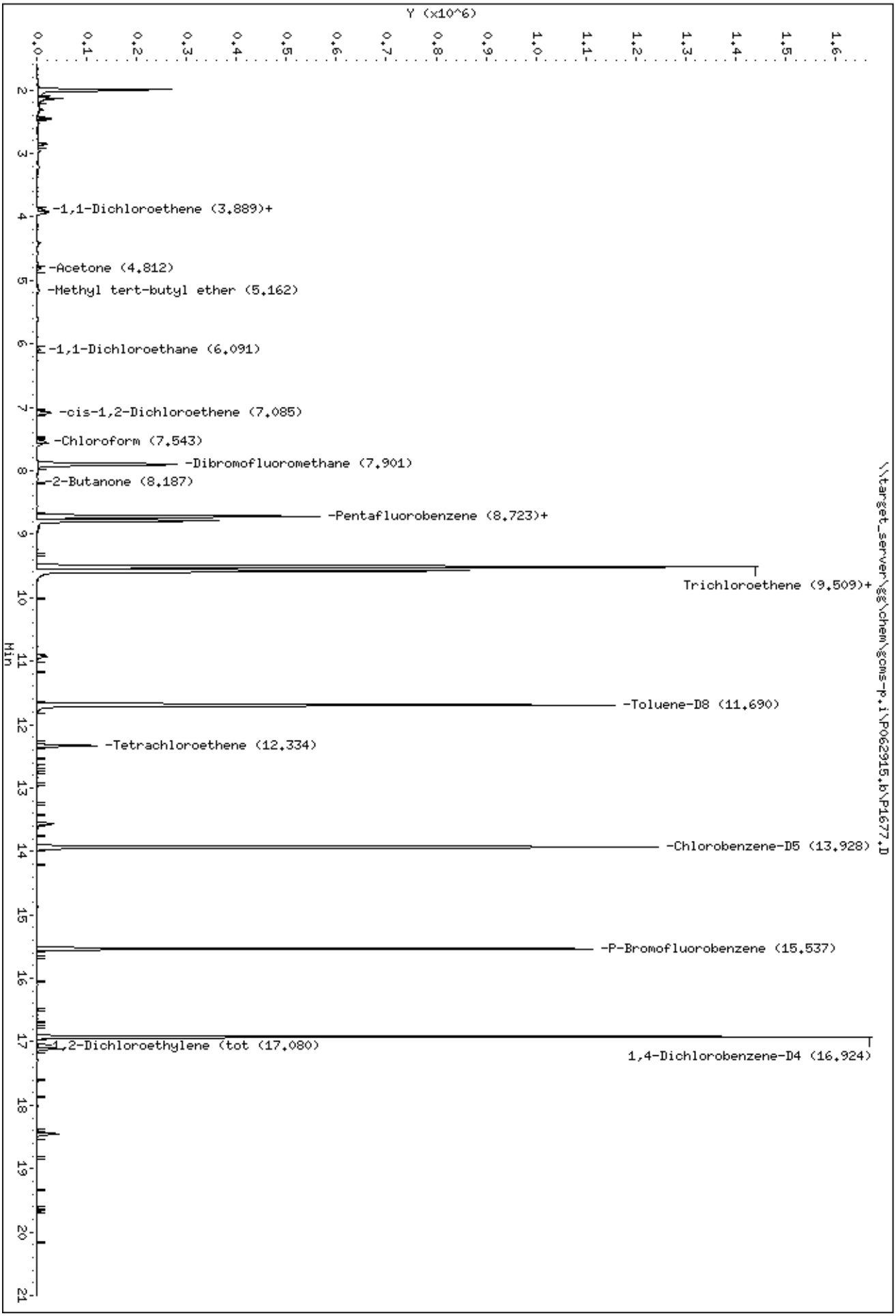
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
	9 1,1-Dichloroethene	96	3.896	3.889	(0.447)	3731	0.95467	0.95(a)	
	11 Freon-113	151	3.932	3.939	(0.451)	7196	2.88753	2.9	
	15 Acetone	43	4.811	4.804	(0.552)	11418	6.56167	6.6	
	19 Methyl tert-butyl ether	73	5.162	5.147	(0.592)	4842	0.37139	0.37(a)	
	25 1,1-Dichloroethane	63	6.091	6.084	(0.698)	7819	0.96675	0.97(a)	
	29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.813)	14559	2.85789	2.8	
M	30 1,2-Dichloroethylene (total)	96				14559	2.85789	2.8	
	34 Chloroform	83	7.585	7.578	(0.870)	6887	0.83336	0.83(a)	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	197845	48.0612	48.1	
	40 2-Butanone	43	8.136	8.115	(0.933)	3143	1.45493	1.4(a)	
*	42 Pentafluorobenzene	168	8.722	8.715	(1.000)	380574	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	296681	51.3194	51.3	
	48 Trichloroethene	95	9.509	9.509	(0.993)	534455	119.117	119	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	700194	50.0000		
$	55 Toluene-D8	98	11.690	11.690	(1.220)	751119	48.4922	48.5	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	26669	8.81079	8.8	
*	66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	609586	50.0000		
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	325592	46.2105	46.2	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	334649	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 29-JUN-2015 17:57
Client ID: VPB159-GWD-062515
Sample Info: S14557-7
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1677.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.889)+
-Acetone (4.812)
-Methyl tert-butyl ether (5.162)
-1,1-Dichloroethane (6.091)
-cis-1,2-Dichloroethene (7.085)
-Chloroform (7.543)
-Dibromofluoromethane (7.901)
-2-Butanone (8.187)
-Pentafluorobenzene (8.723)+
Trichloroethene (9.509)+
-Toluene-D8 (11.690)
-Tetrachloroethene (12.334)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.924)

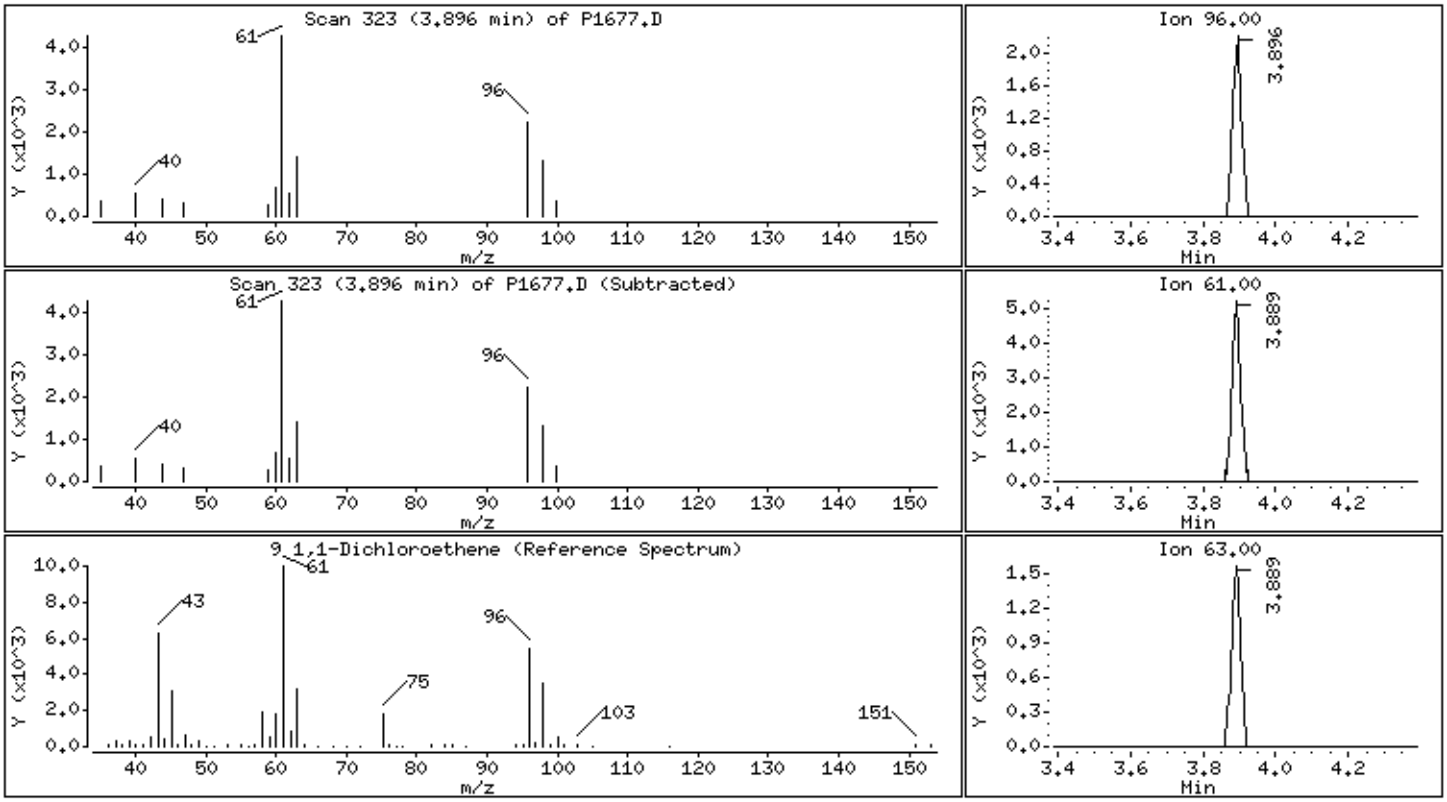
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1677.D

Date : 29-JUN-2015 17:57

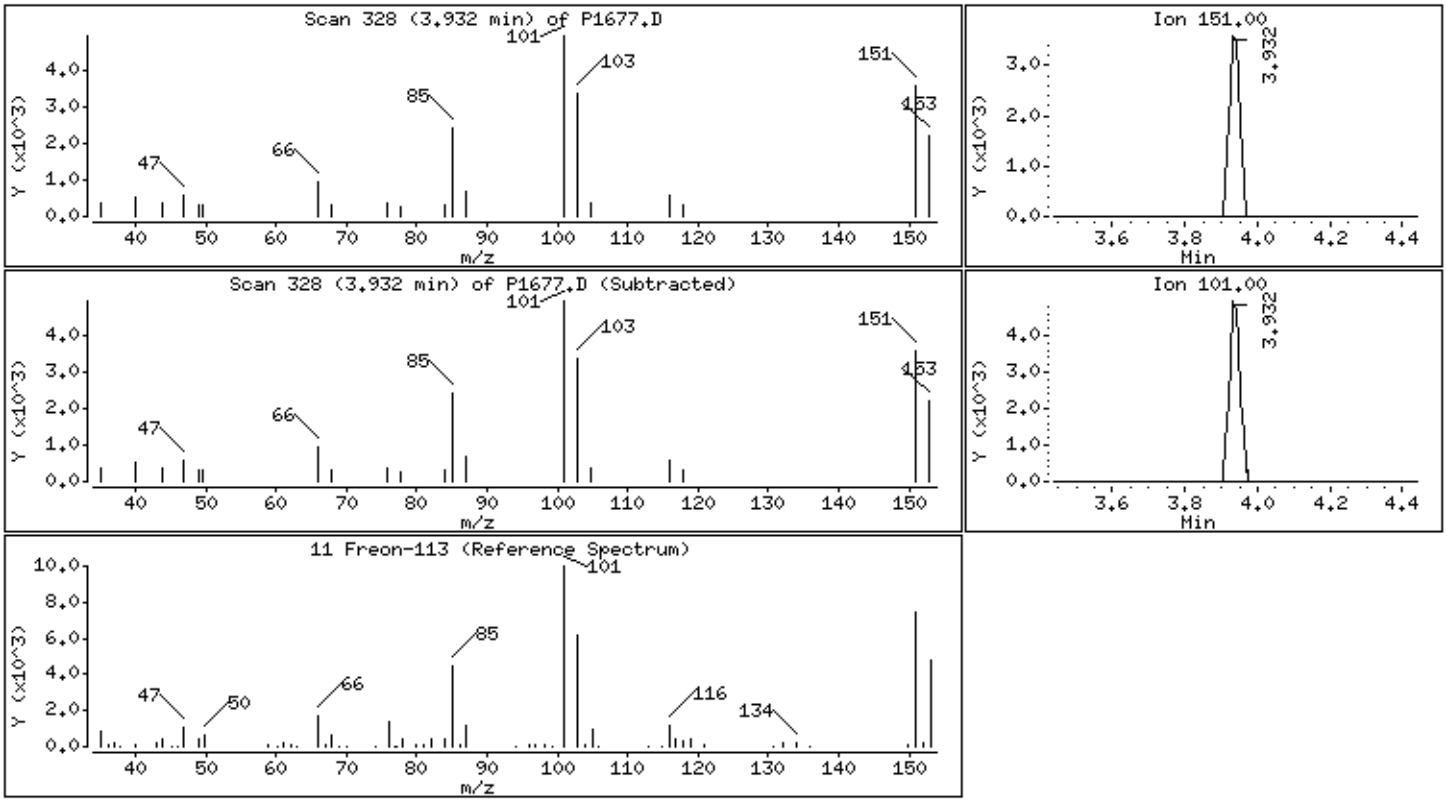
Client ID: VPB159-GWD-062515 Instrument: gcms-p.i

Sample Info: SI4557-7

9 1,1-Dichloroethene Concentration: 0.95 ug/l

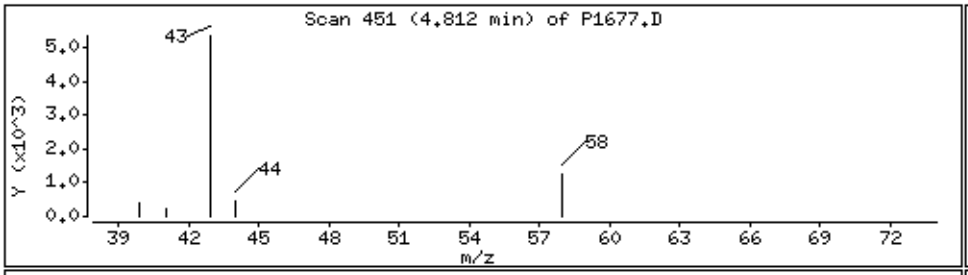


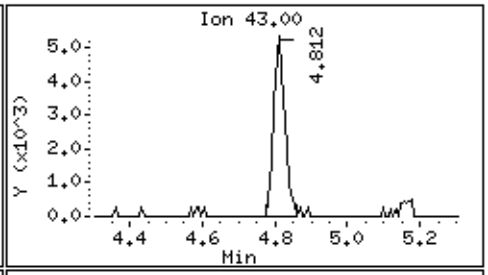
11 Freon-113 Concentration: 2.9 ug/l

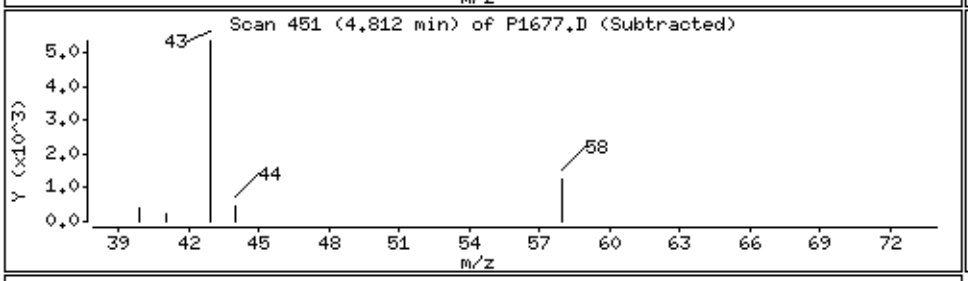


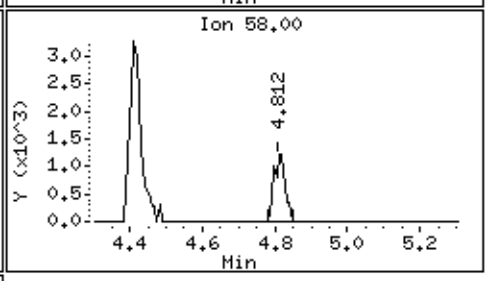
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1677.D
Date : 29-JUN-2015 17:57
Client ID: VPB159-GWD-062515 Instrument: gcms-p.i
Sample Info: SI4557-7

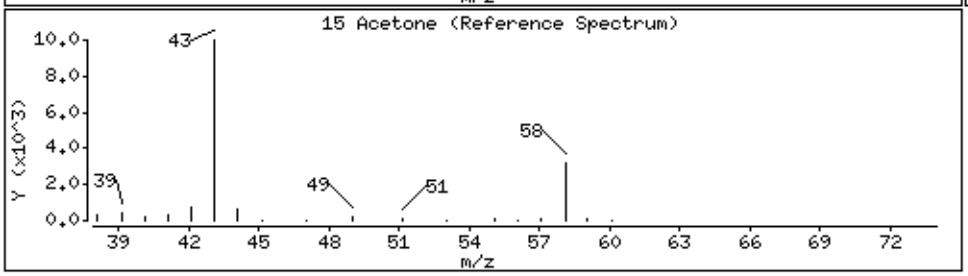
15 Acetone Concentration: 6.6 ug/l



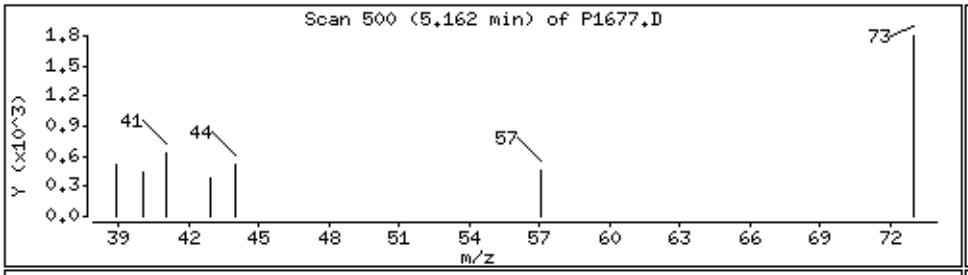


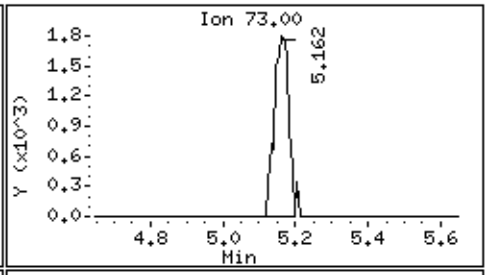


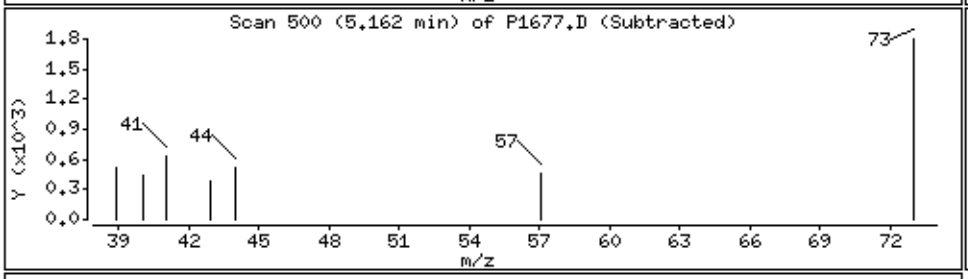


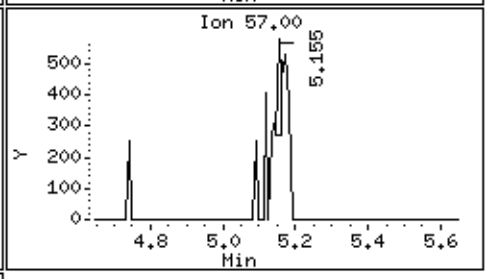


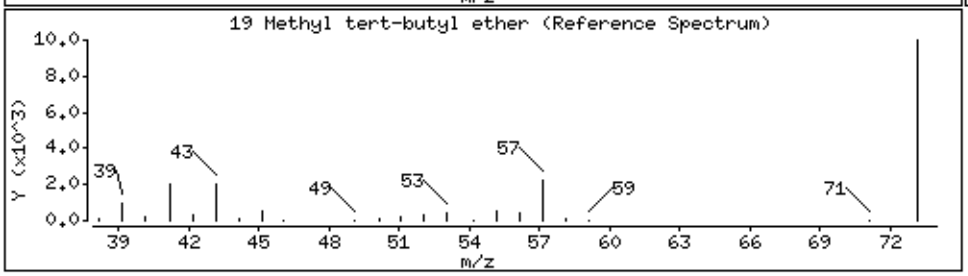
19 Methyl tert-butyl ether Concentration: 0.37 ug/l











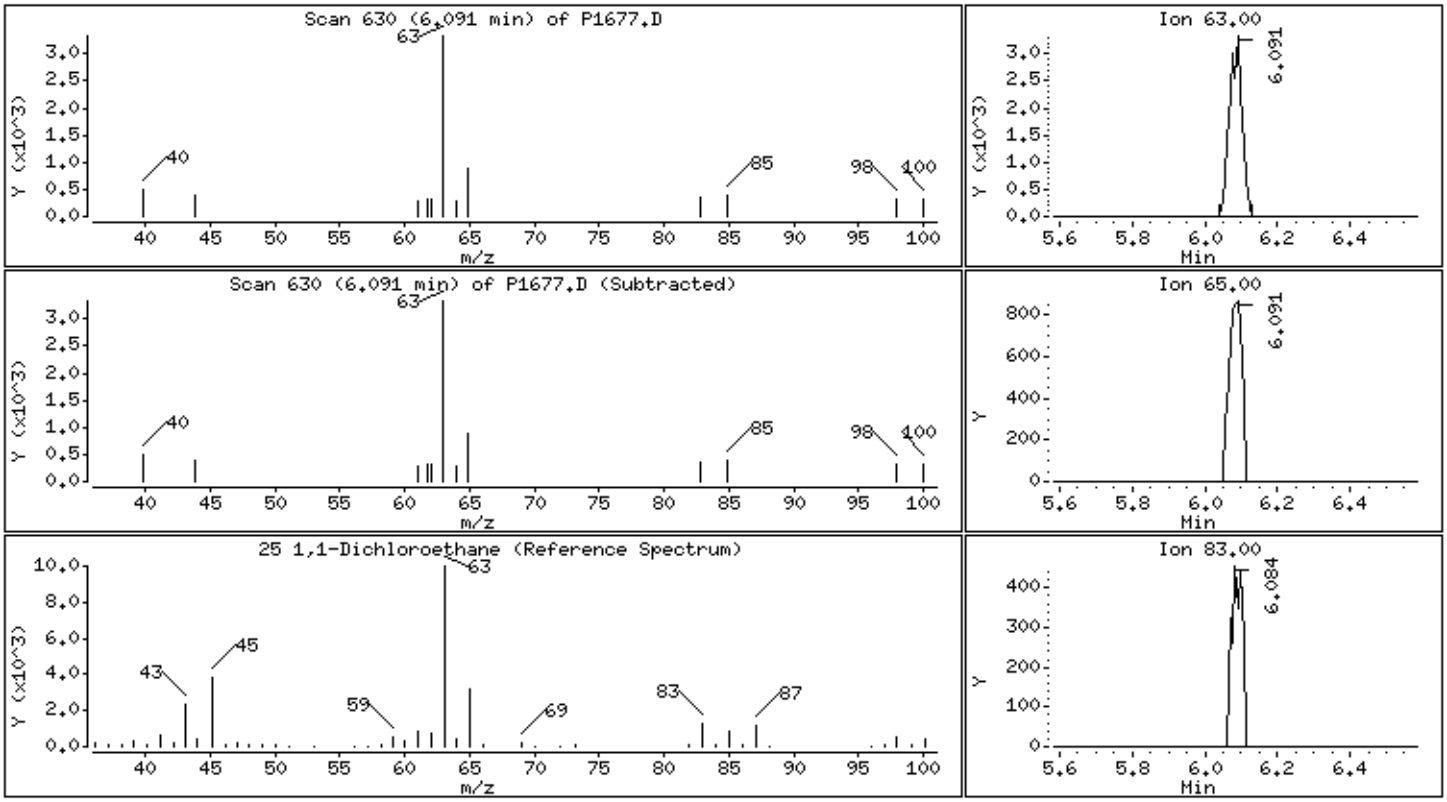
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1677.D

Date : 29-JUN-2015 17:57

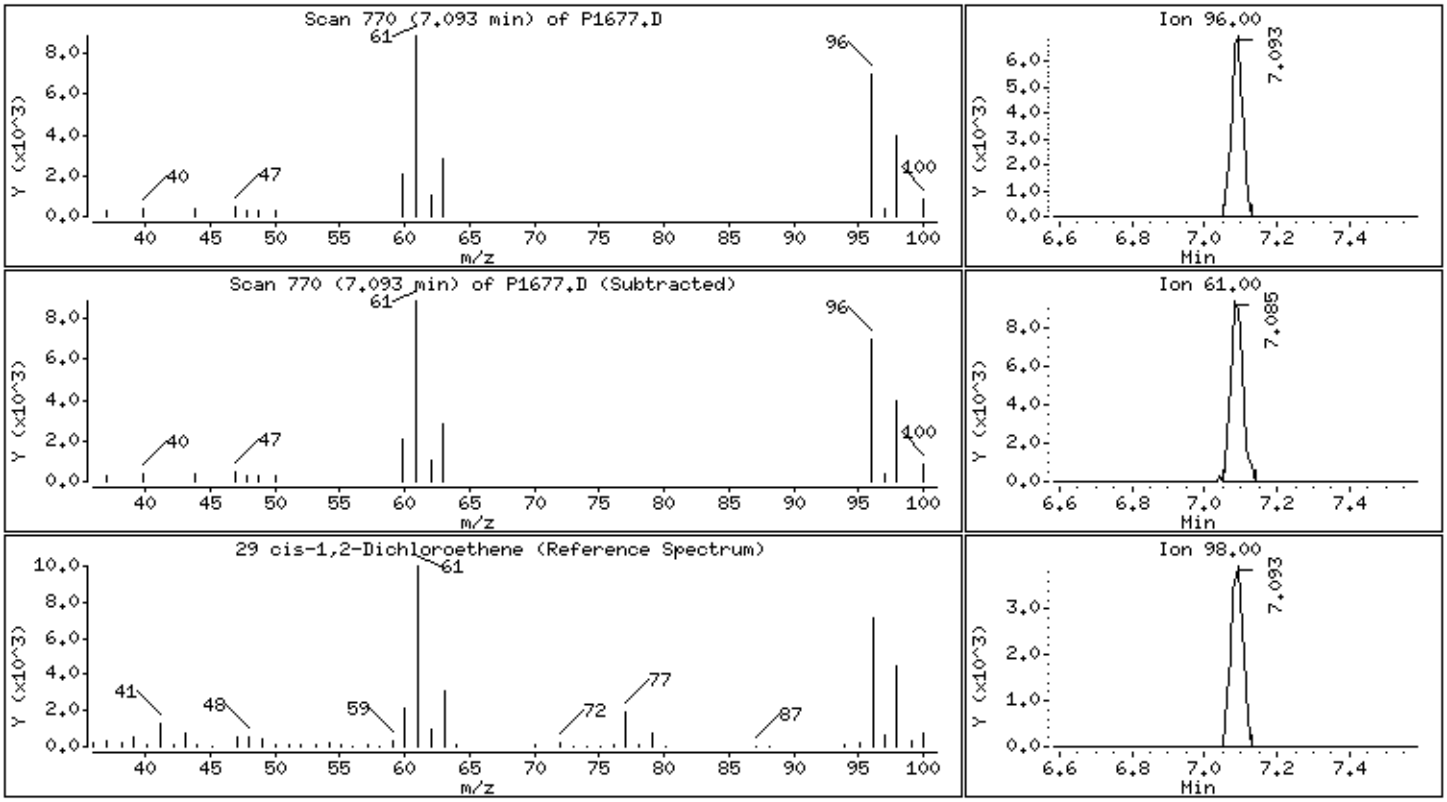
Client ID: VPB159-GWD-062515 Instrument: gcms-p.i

Sample Info: SI4557-7

25 1,1-Dichloroethane Concentration: 0.97 ug/l



29 cis-1,2-Dichloroethene Concentration: 2.8 ug/l



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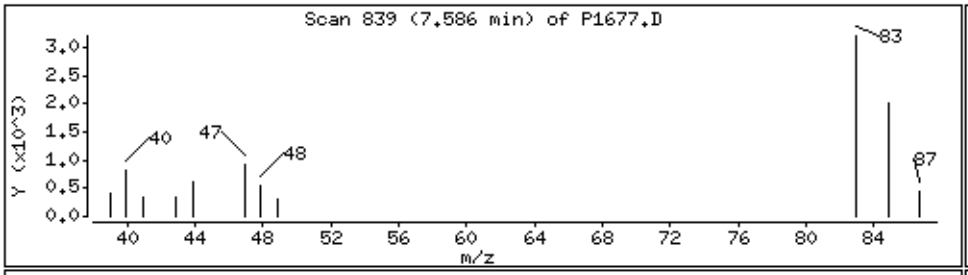
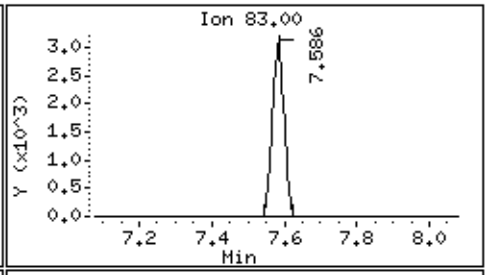
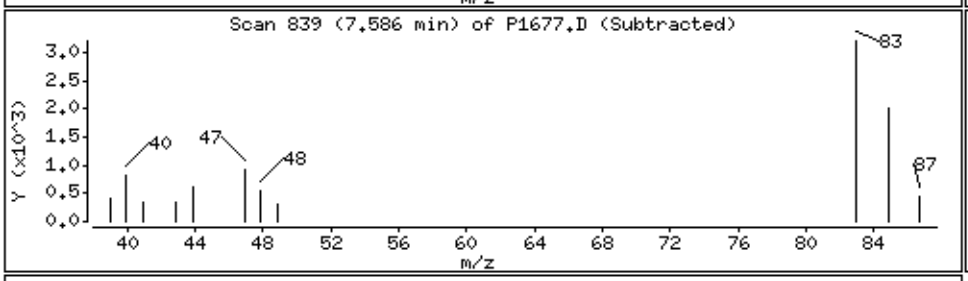
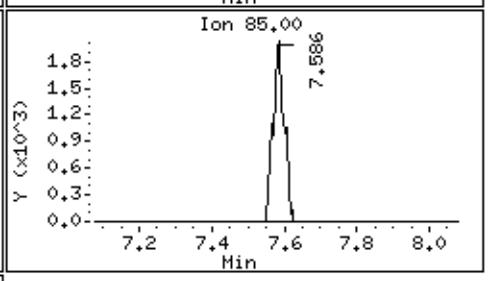
Date : 29-JUN-2015 17:57
Client ID: VPB159-GWD-062515 Instrument: gcms-p.i
Sample Info: SI4557-7

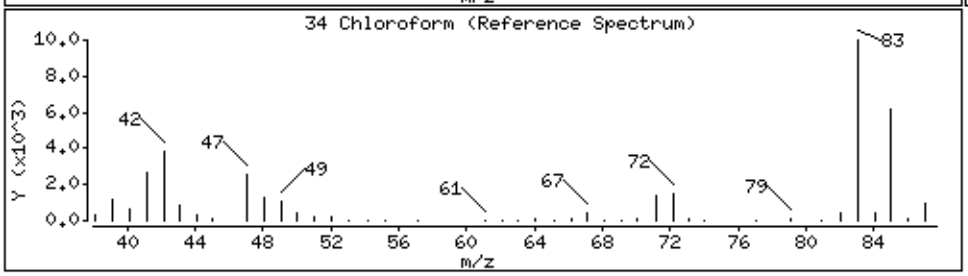
34 Chloroform Concentration: 0.83 ug/l



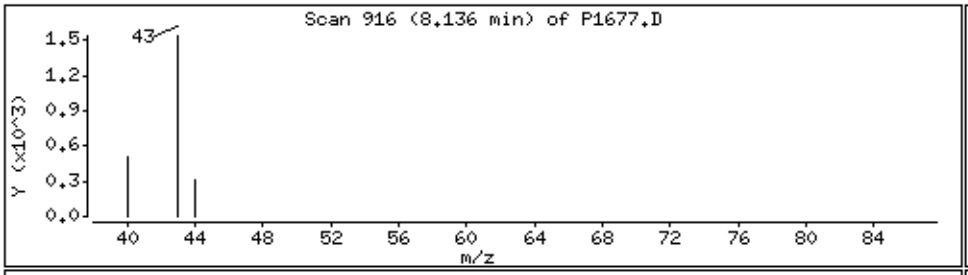


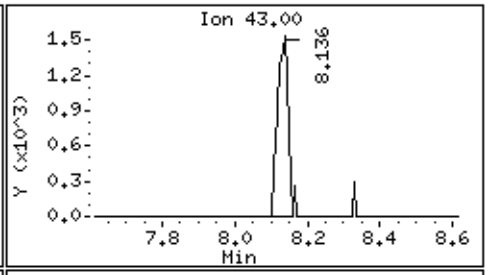


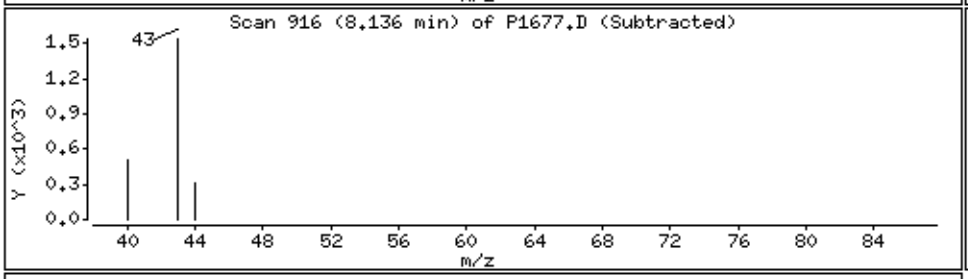


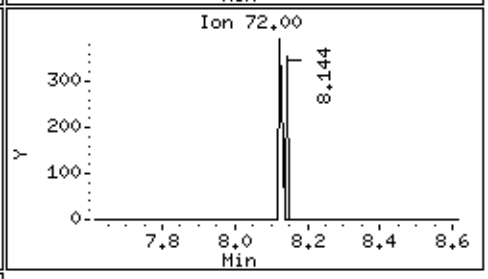


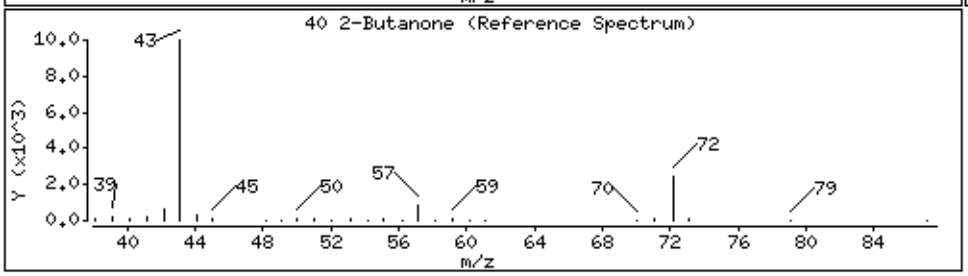
40 2-Butanone Concentration: 1.4 ug/l











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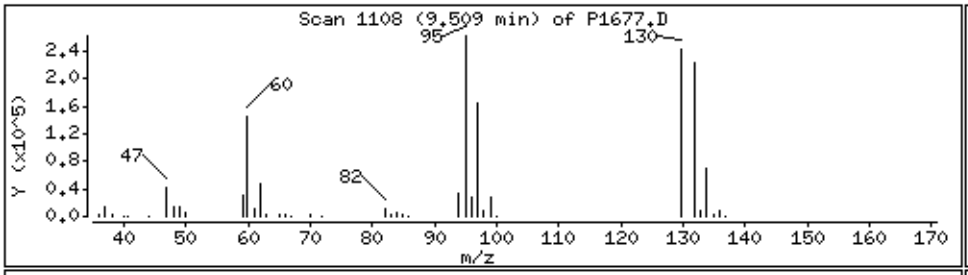
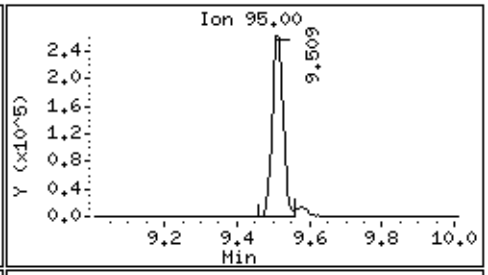
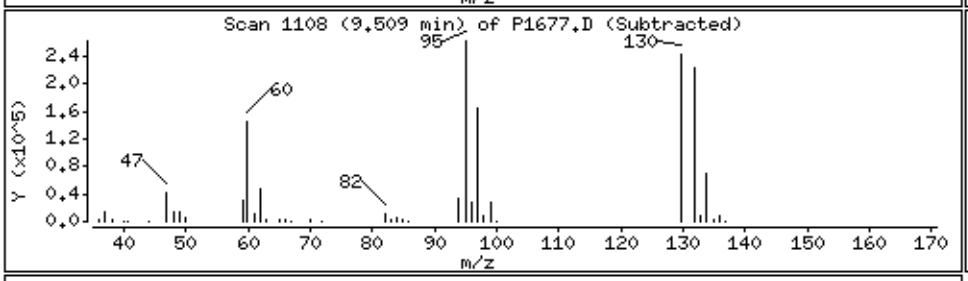
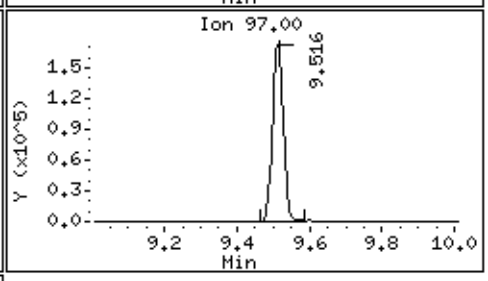
Date : 29-JUN-2015 17:57
Client ID: VPB159-GWD-062515 Instrument: gcms-p.i
Sample Info: SI4557-7

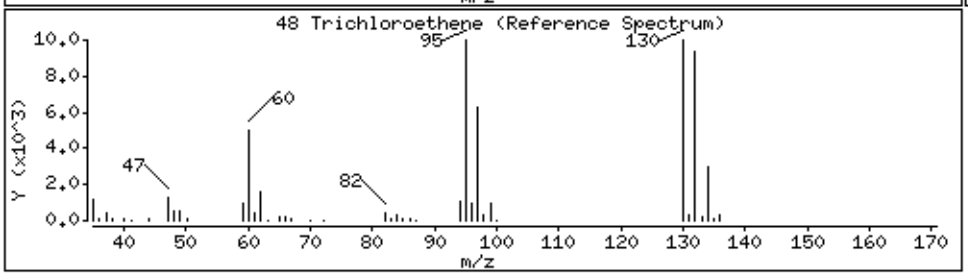
48 Trichloroethene Concentration: 119 ug/l



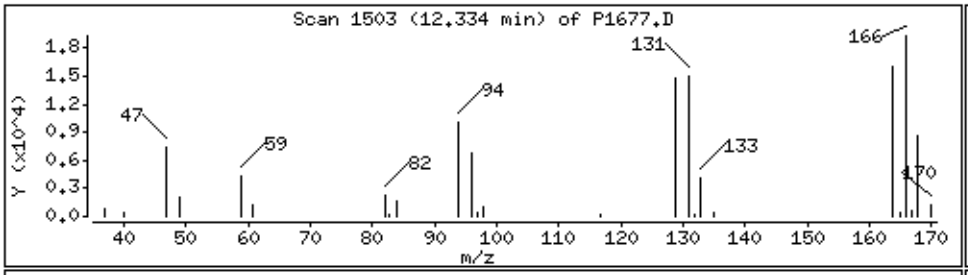


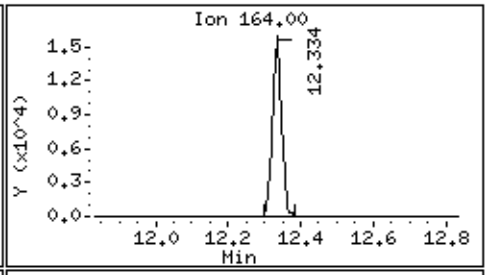


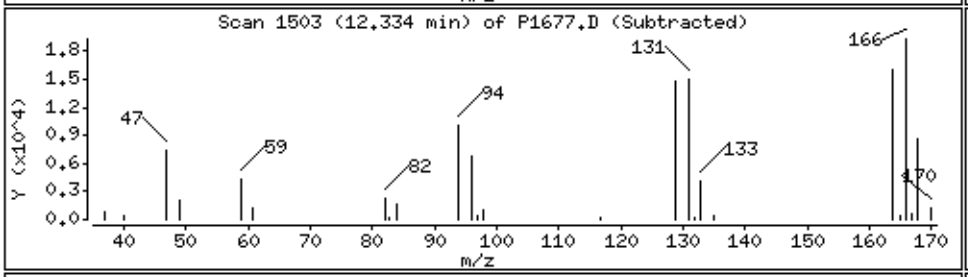


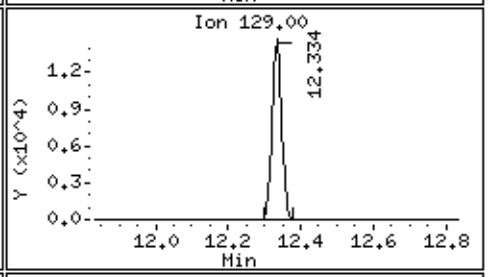


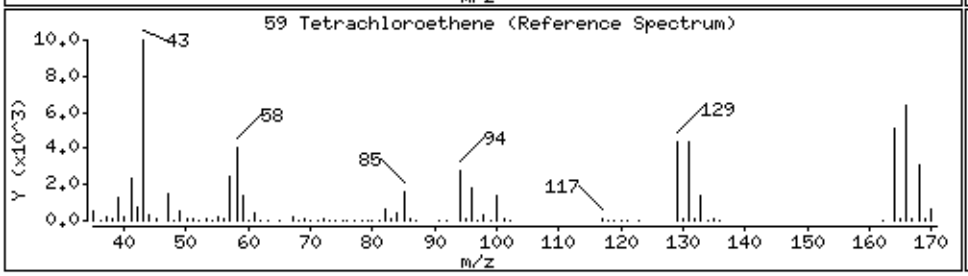
59 Tetrachloroethene Concentration: 8.8 ug/l

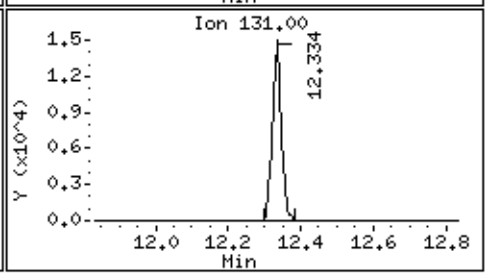












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-8
Client ID: 159-062515-318-320
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1678.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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	J	0.99	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		6.2	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	4.0	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		1.5	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.3	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.77	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		130	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		14	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: SI4557-8
Client ID: 159-062515-318-320
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1678.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)		3.3	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		88.0	%					
Toluene-d8		96.8	%					
1,2-Dichloroethane-d4		97.5	%					
Dibromofluoromethane		90.3	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1678.D
Report Date: 30-Jun-2015 10:43

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1678.D
Lab Smp Id: SI4557-8 Client Smp ID: 159-062515-318-320
Inj Date : 29-JUN-2015 18:26 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-8
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 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

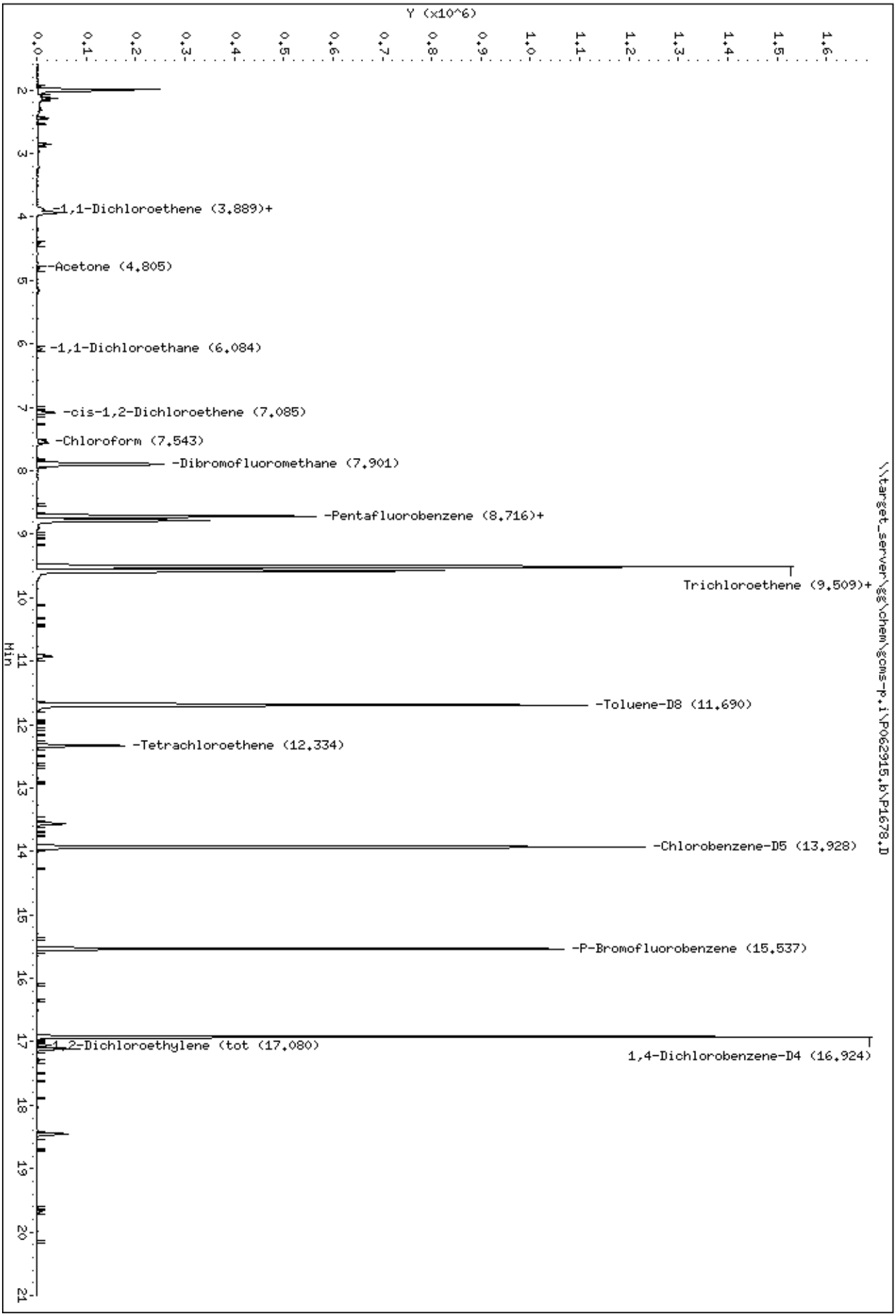
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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
	9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	3838	0.98983	0.99(a)	
	11 Freon-113	151	3.932	3.939	(0.451)	15310	6.19210	6.2	
	15 Acetone	43	4.804	4.804	(0.551)	6894	3.99321	4.0(a)	
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	11899	1.48286	1.5	
	29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.814)	16506	3.26575	3.3	
M	30 1,2-Dichloroethylene (total)	96				16506	3.26575	3.3	
	34 Chloroform	83	7.578	7.578	(0.870)	6351	0.77458	0.77(a)	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	184385	45.1463	45.1	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	377583	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.008)	279653	48.7571	48.8	
	48 Trichloroethene	95	9.509	9.509	(0.993)	548732	126.688	127	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	675936	50.0000		
$	55 Toluene-D8	98	11.690	11.690	(1.220)	723745	48.4018	48.4	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	40605	13.6015	13.6	
*	66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	601225	50.0000		
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	299236	43.9940	44.0	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	338529	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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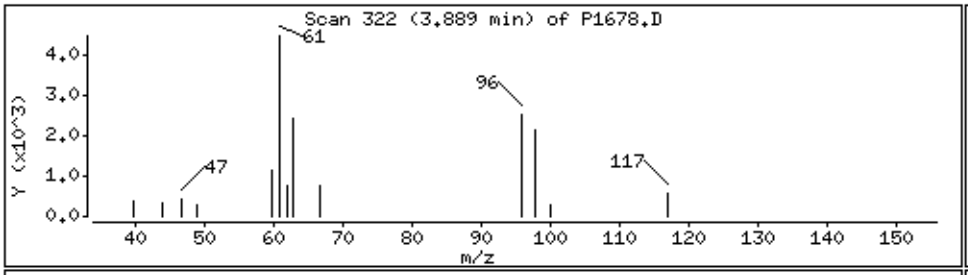
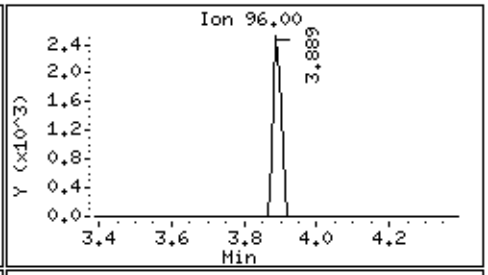
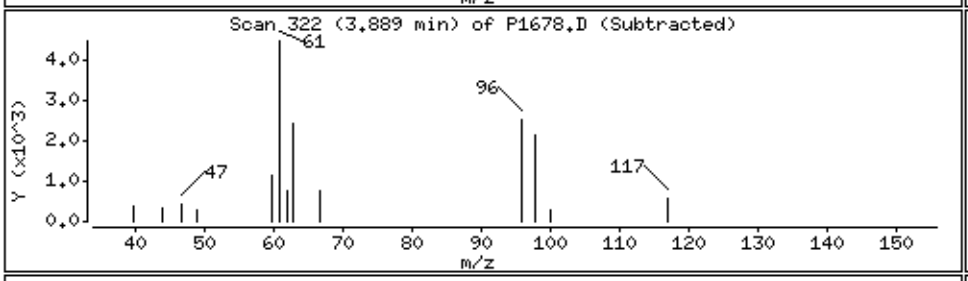
Date : 29-JUN-2015 18:26
Client ID: 159-062515-318-320
Sample Info: SI4557-8
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1678.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.889)+
-Acetone (4.805)
-1,1-Dichloroethane (6.084)
-cis-1,2-Dichloroethene (7.085)
-Chloroform (7.543)
-Dibromofluoromethane (7.901)
-Pentafluorobenzene (8.716)+
Trichloroethene (9.509)+
-Toluene-D8 (11.690)
-Tetrachloroethene (12.334)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.924)

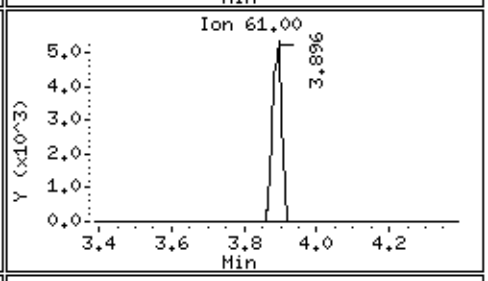
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1678.D
Date : 29-JUN-2015 18:26
Client ID: 159-062515-318-320 Instrument: gcms-p.i
Sample Info: SI4557-8

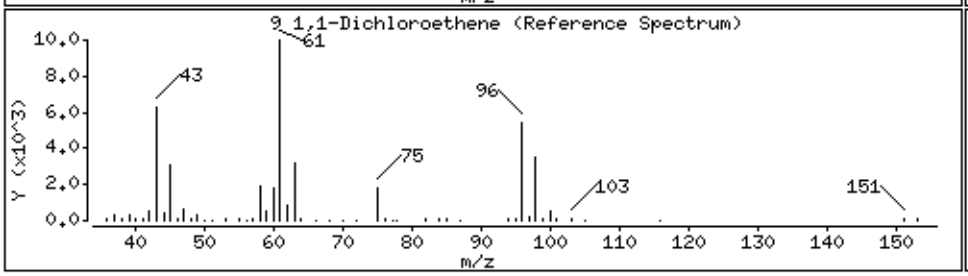
9 1,1-Dichloroethene Concentration: 0.99 ug/l

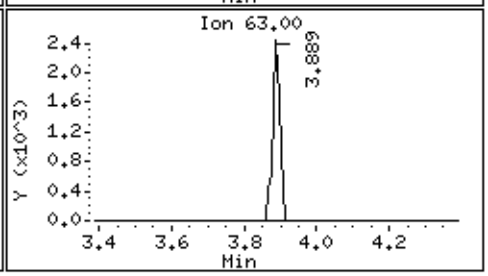




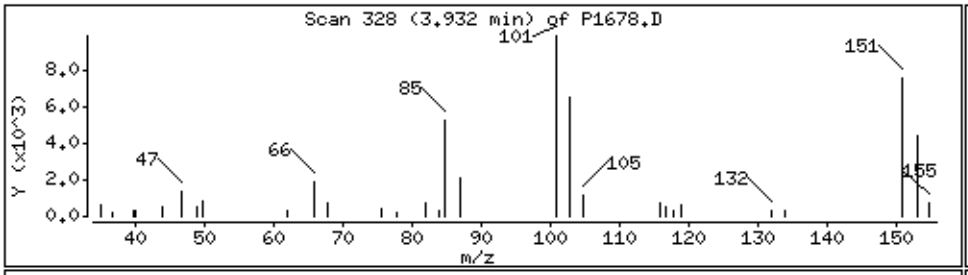


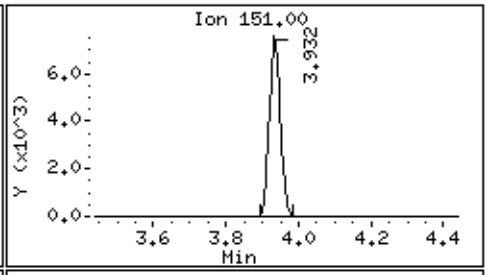


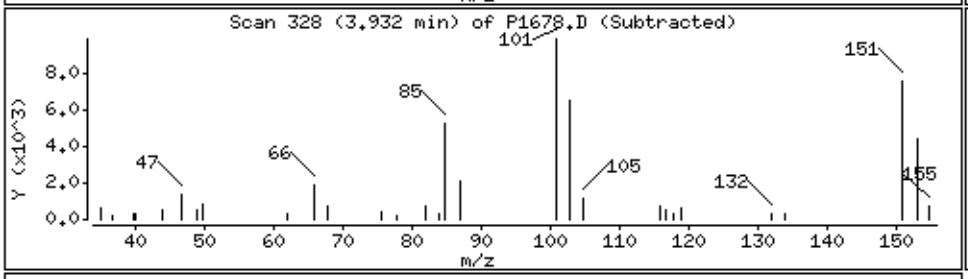


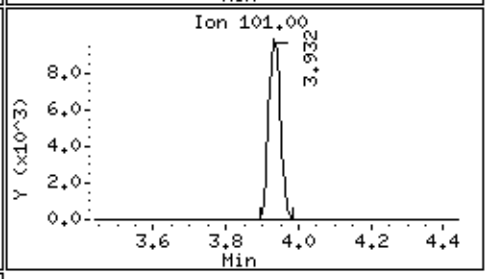


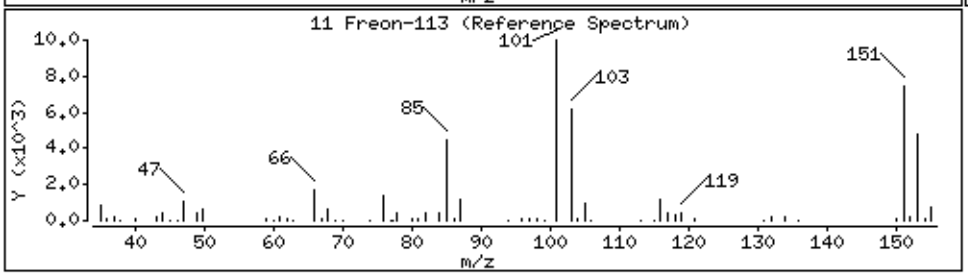
11 Freon-113 Concentration: 6.2 ug/l





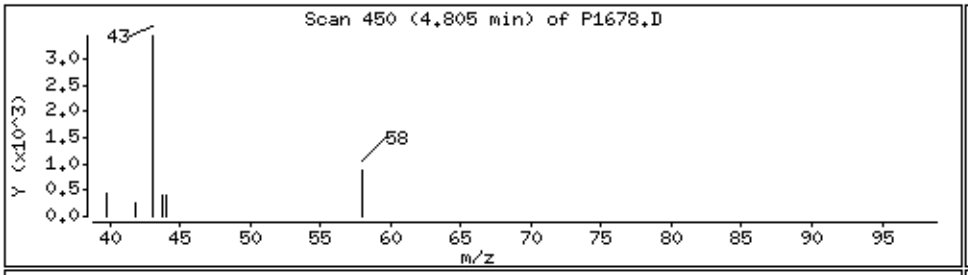


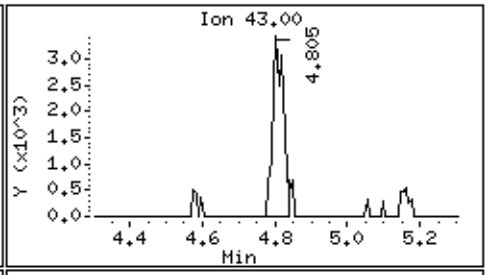


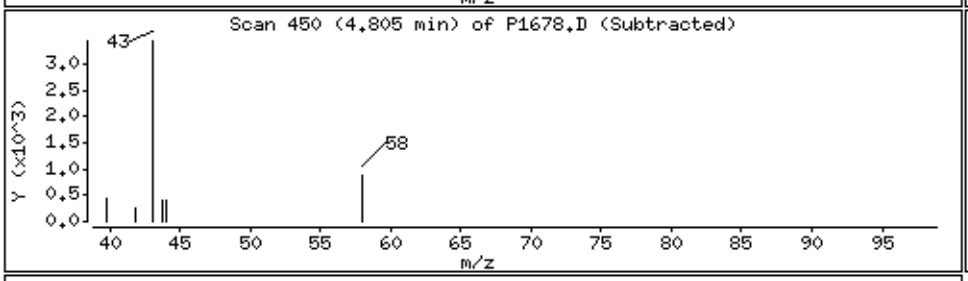


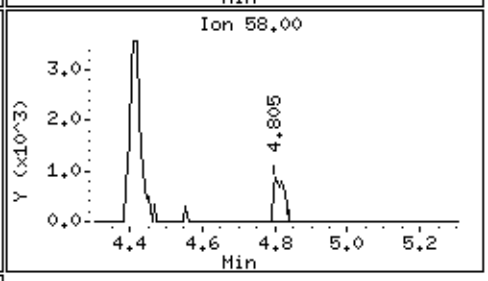
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1678.D
Date : 29-JUN-2015 18:26
Client ID: 159-062515-318-320 Instrument: gcms-p.i
Sample Info: SI4557-8

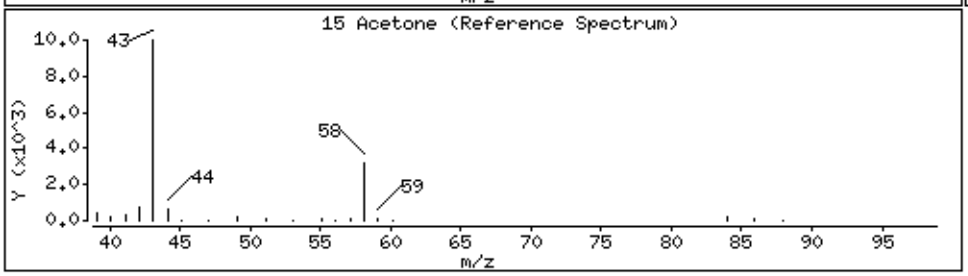
15 Acetone Concentration: 4.0 ug/l



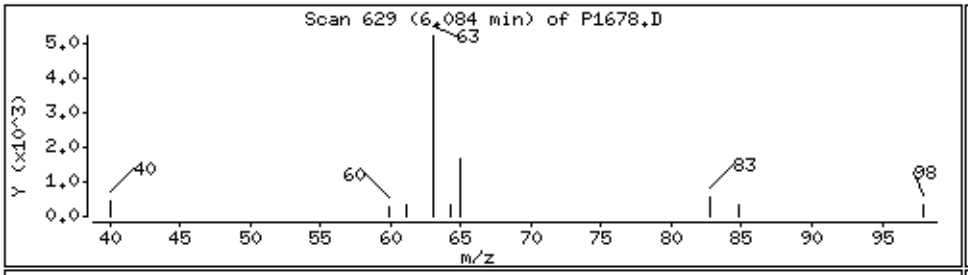


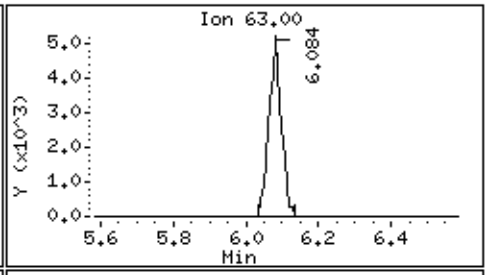


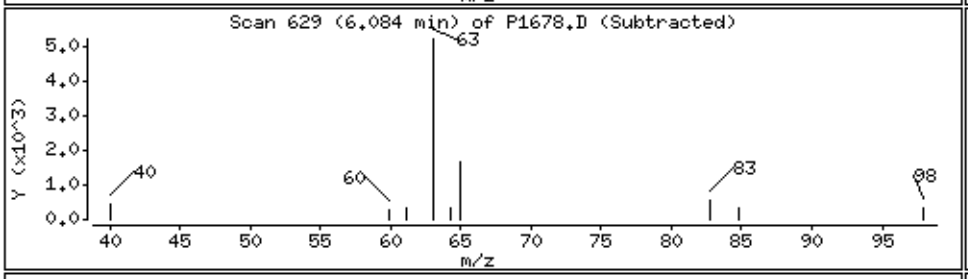


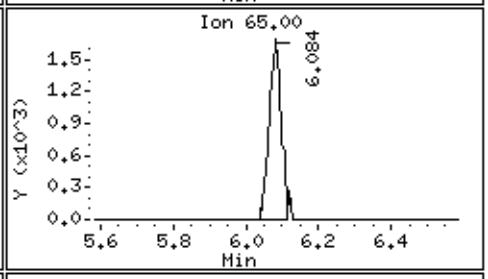


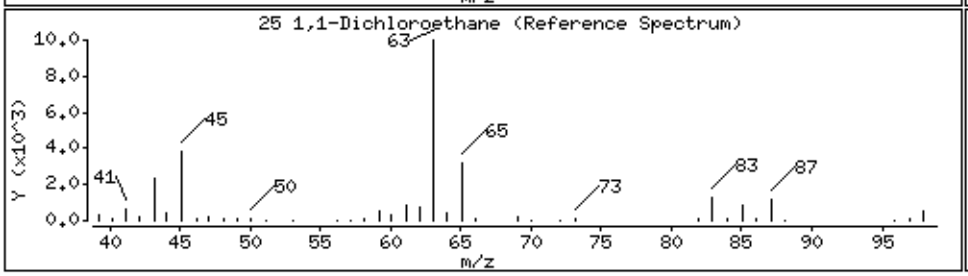
25 1,1-Dichloroethane Concentration: 1.5 ug/l

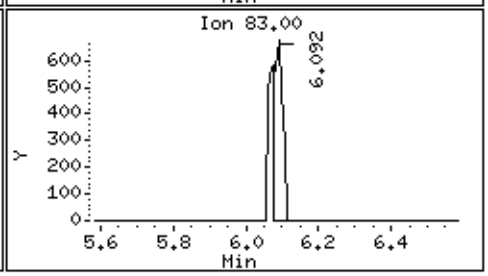












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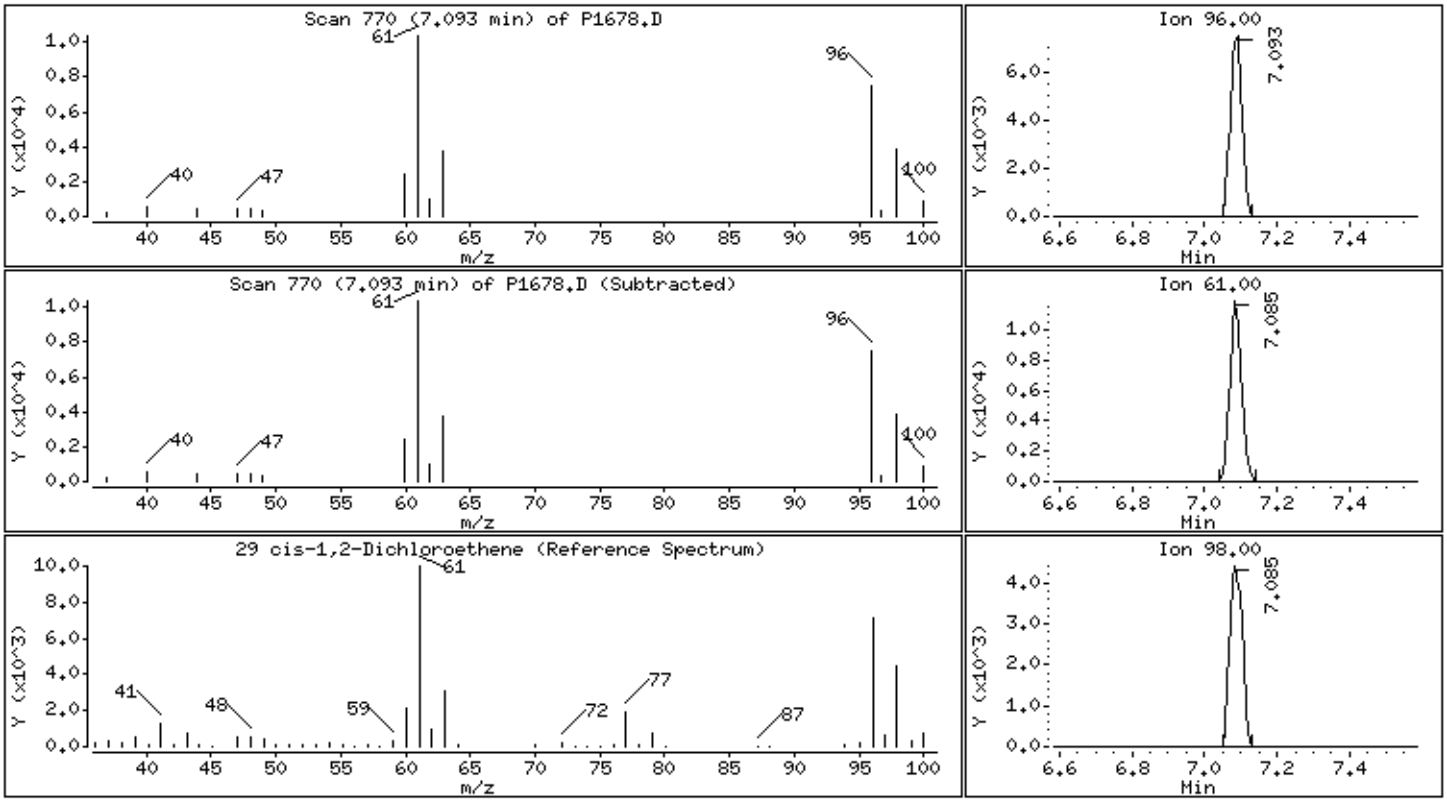
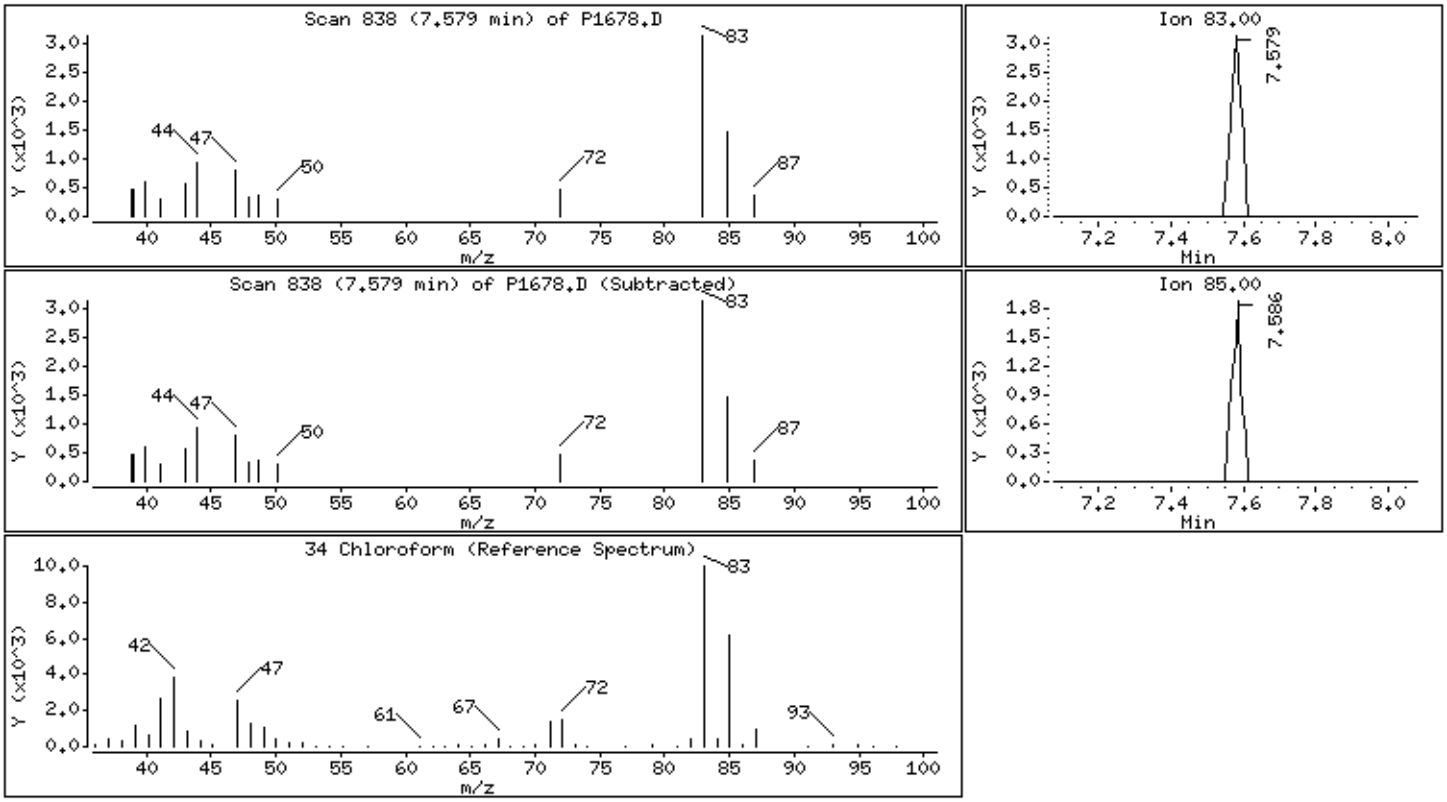
Date : 29-JUN-2015 18:26
Client ID: 159-062515-318-320 Instrument: gcms-p.i
Sample Info: SI4557-8

29 cis-1,2-Dichloroethene Concentration: 3.3 ug/l



34 Chloroform Concentration: 0.77 ug/l



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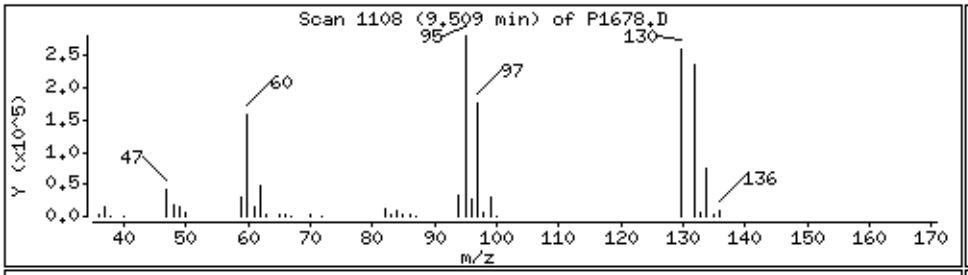
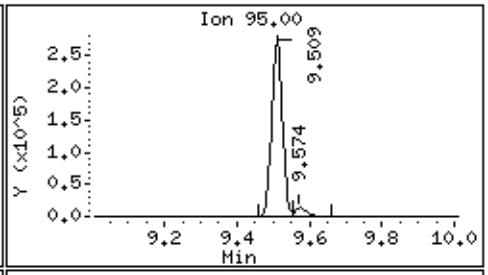
Date : 29-JUN-2015 18:26

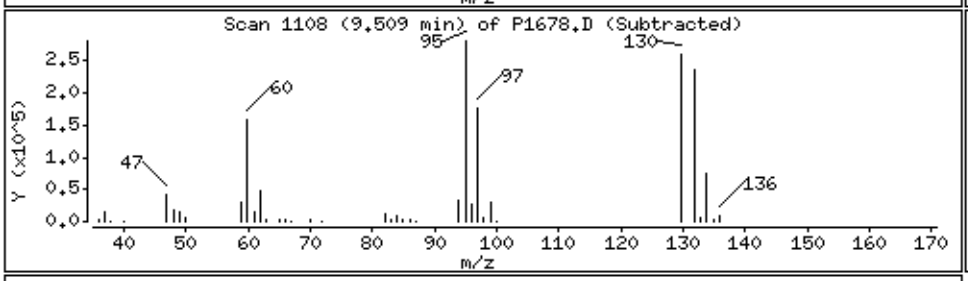
Client ID: 159-062515-318-320 Instrument: gcms-p.i

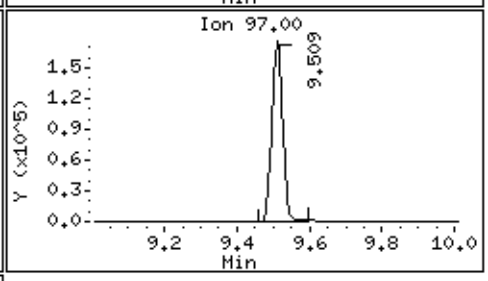
Sample Info: SI4557-8

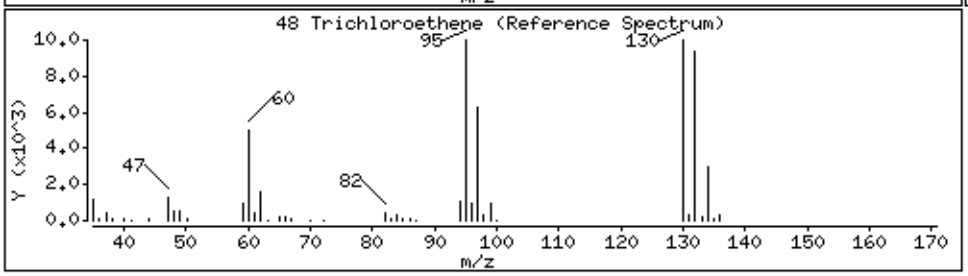
48 Trichloroethene Concentration: 127 ug/l



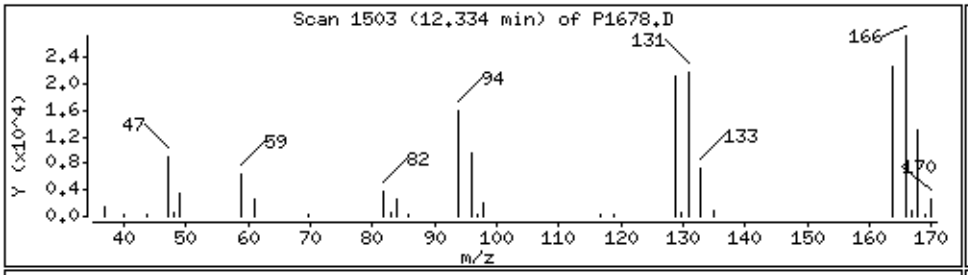


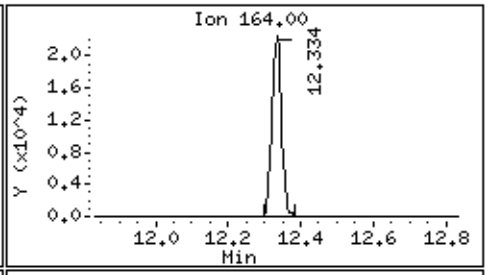


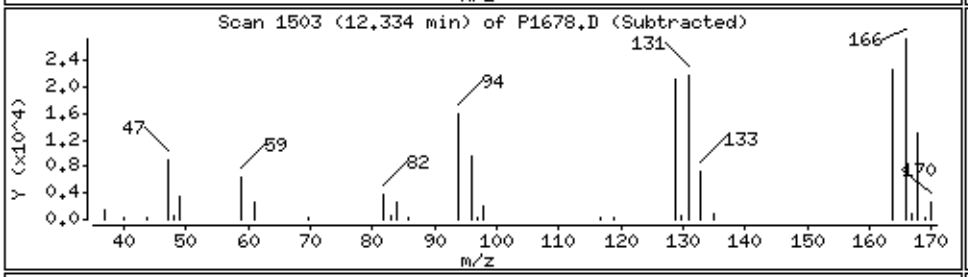


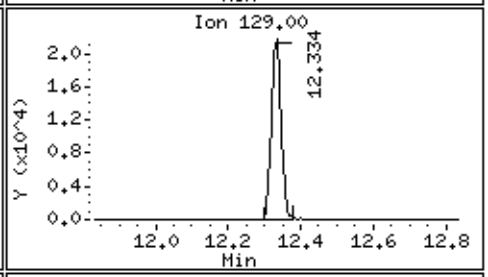


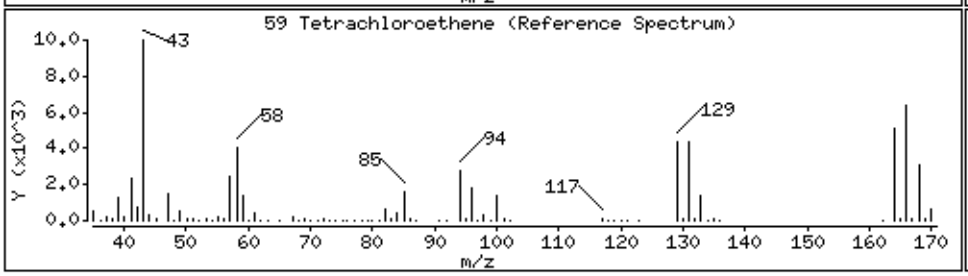
59 Tetrachloroethene Concentration: 13.6 ug/l

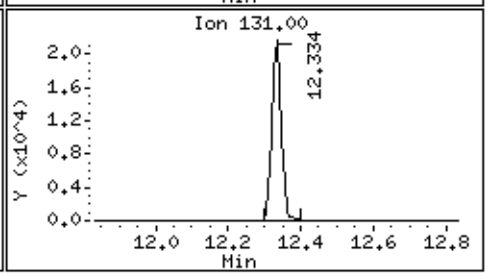












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-9
Client ID: 159-062515-338-340
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1679.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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	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		3.5	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		20	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	2.8	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		2.1	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		3.9	ug/L	1	1	1.0	0.21	0.50
Chloroform	J	0.68	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	220	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		9.8	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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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: SI4557-9
Client ID: 159-062515-338-340
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1679.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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)		3.9	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		92.3	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		101.	%					
Dibromofluoromethane		95.6	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D
Report Date: 30-Jun-2015 10:43

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D
Lab Smp Id: SI4557-9 Client Smp ID: 159-062515-338-340
Inj Date : 29-JUN-2015 18:55 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-9
Misc Info : WG165671,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 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

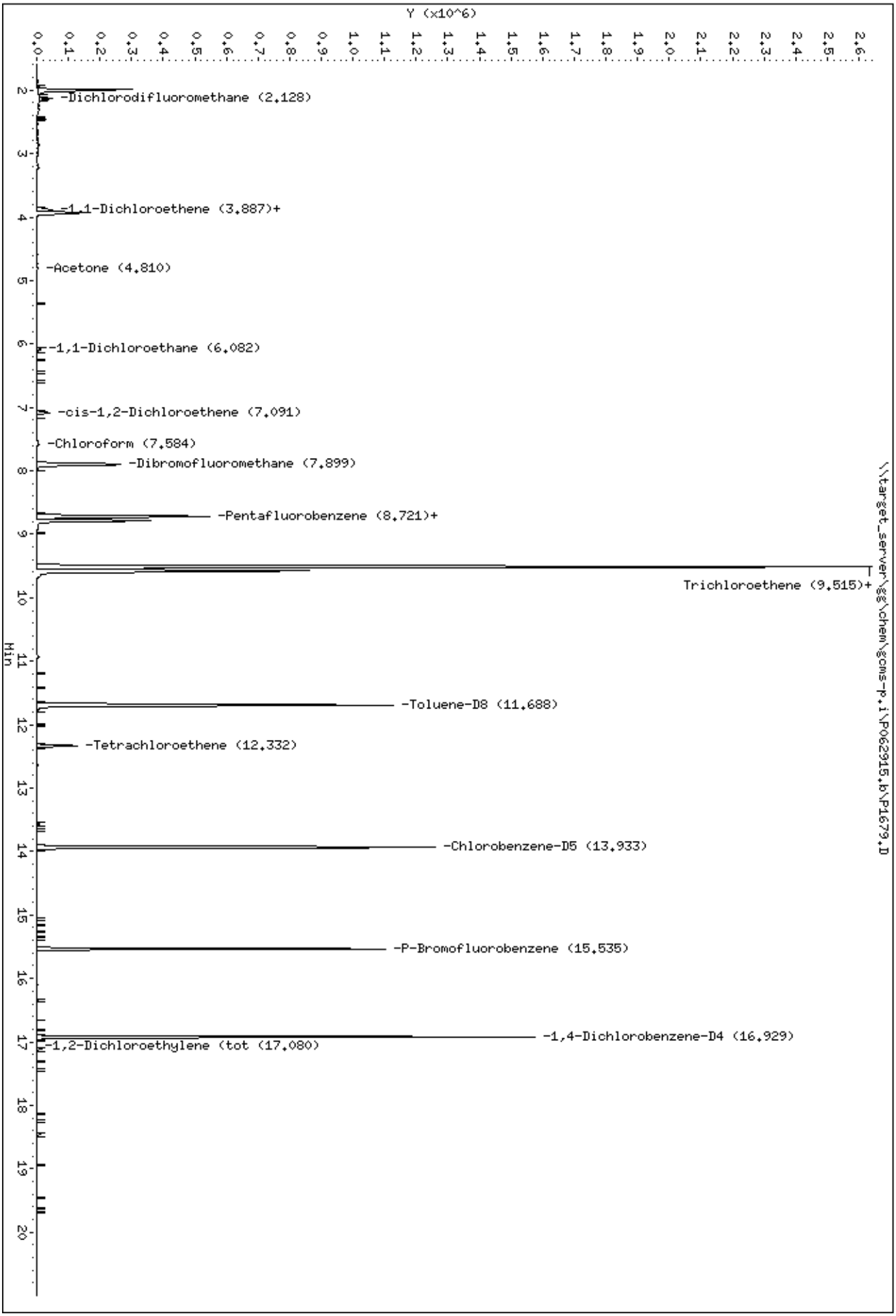
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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	2.185	2.187	(0.251)	1944	0.38240	0.38(a)	
	9 1,1-Dichloroethene	96	3.894	3.889	(0.447)	13555	3.54561	3.5	
	11 Freon-113	151	3.930	3.939	(0.451)	47984	19.6833	19.7	
	15 Acetone	43	4.809	4.804	(0.552)	4761	2.79697	2.8(a)	
	25 1,1-Dichloroethane	63	6.082	6.084	(0.697)	16575	2.09499	2.1	
	29 cis-1,2-Dichloroethene	96	7.083	7.085	(0.812)	19663	3.94574	3.9	
M	30 1,2-Dichloroethylene (total)	96				19663	3.94574	3.9	
	34 Chloroform	83	7.584	7.578	(0.870)	5513	0.68195	0.68(a)	
$	37 Dibromofluoromethane	113	7.898	7.900	(0.906)	192567	47.8207	47.8	
*	42 Pentafluorobenzene	168	8.720	8.715	(1.000)	372284	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.785	8.787	(1.007)	286675	50.6928	50.7	
	48 Trichloroethene	95	9.514	9.509	(0.993)	972227	223.663	224(A)	
*	49 1,4-Difluorobenzene	114	9.578	9.573	(1.000)	678350	50.0000		
$	55 Toluene-D8	98	11.695	11.690	(1.221)	750092	49.9853	50.0	
	59 Tetrachloroethene	164	12.331	12.333	(0.885)	29048	9.75258	9.8	
*	66 Chlorobenzene-D5	117	13.933	13.935	(1.000)	599846	50.0000		
$	76 P-Bromofluorobenzene	95	15.534	15.537	(1.622)	315039	46.1525	46.2	
*	91 1,4-Dichlorobenzene-D4	152	16.929	16.924	(1.000)	334550	50.0000		

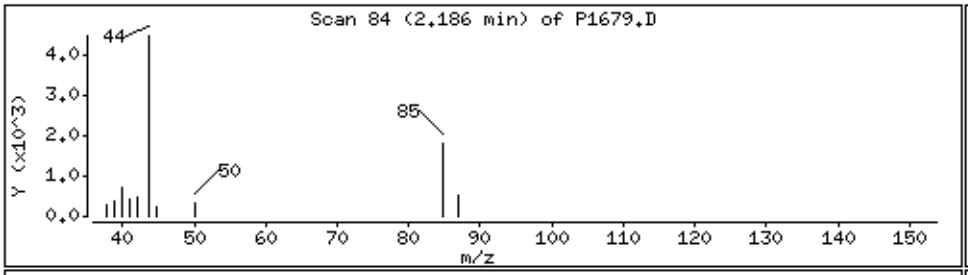
QC Flag Legend

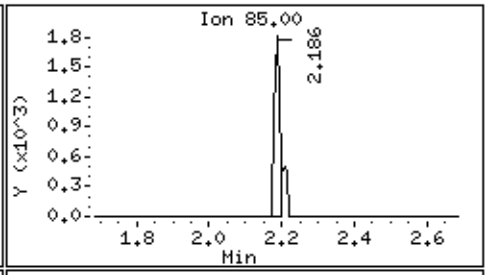
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

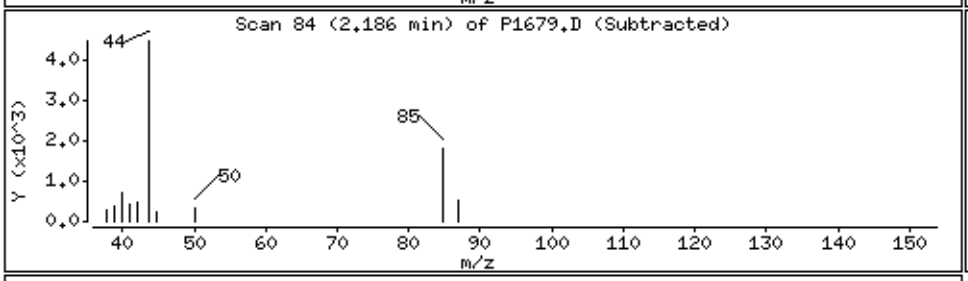

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D
Date : 29-JUN-2015 18:55
Client ID: 159-062515-338-340
Sample Info: SI4557-9
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D
Y (x10^6)
Min
-Dichlorodifluoromethane (2.128)
-1,1-Dichloroethene (3.887)+
-Acetone (4.810)
-1,1-Dichloroethane (6.082)
-cis-1,2-Dichloroethene (7.091)
-Chloroform (7.584)
-Dibromofluoromethane (7.899)
-Pentafluorobenzene (8.721)+
Trichloroethene (9.515)+
-Toluene-D8 (11.688)
-Tetrachloroethene (12.332)
-Chlorobenzene-D5 (13.933)
-P-Bromofluorobenzene (15.535)
-1,4-Dichlorobenzene-D4 (16.929)
-1,2-Dichloroethylene (tot (17.080)

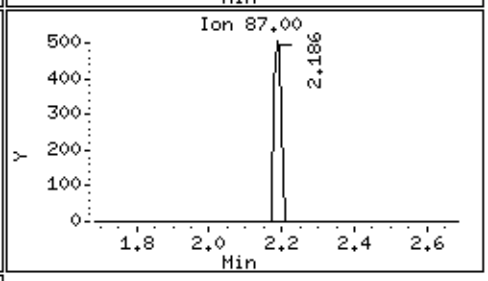
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D
Date : 29-JUN-2015 18:55
Client ID: 159-062515-338-340 Instrument: gcms-p.i
Sample Info: SI4557-9

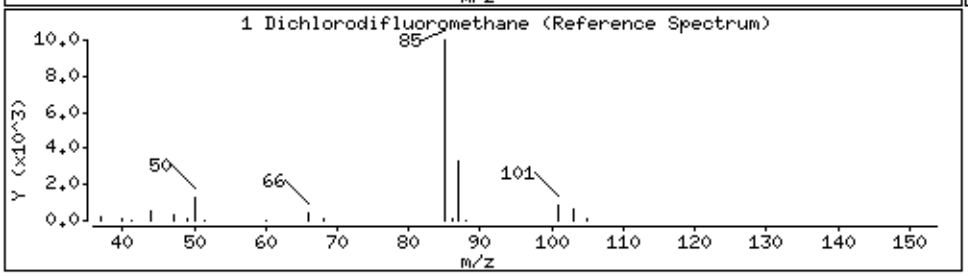
1 Dichlorodifluoromethane Concentration: 0.38 ug/l



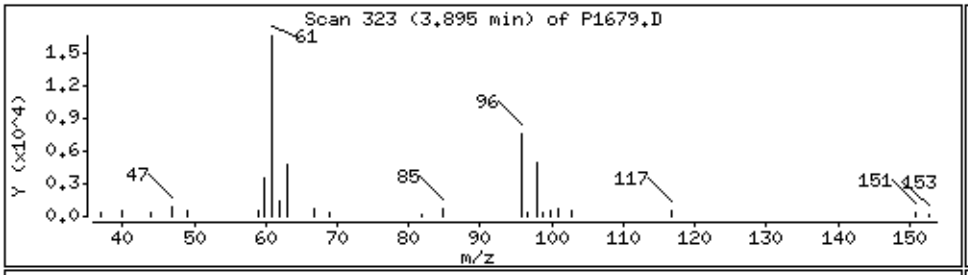


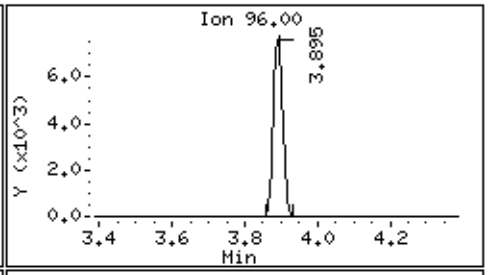


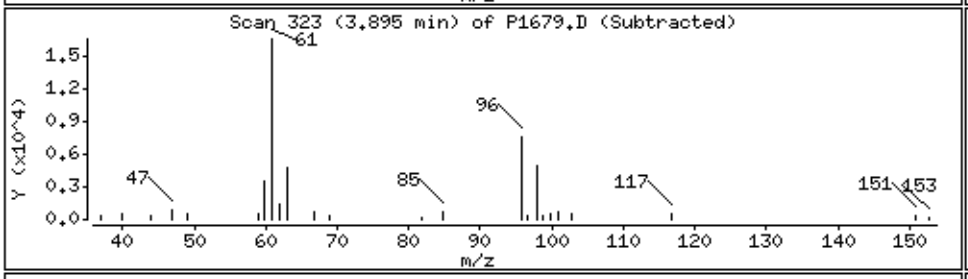


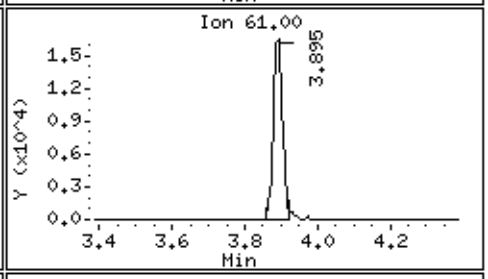


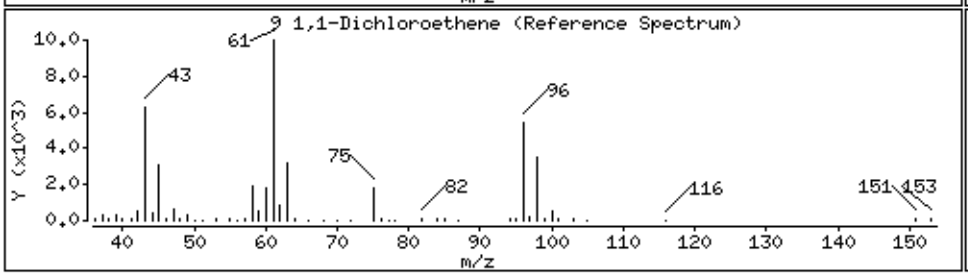
9 1,1-Dichloroethene Concentration: 3.5 ug/l

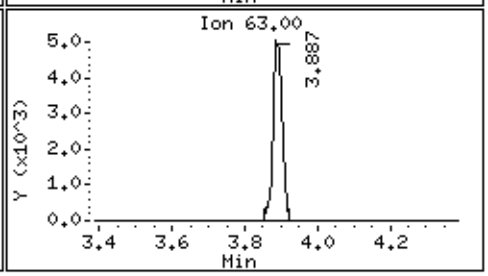






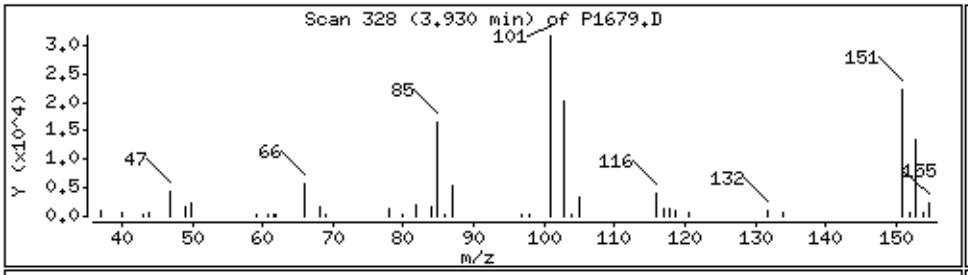


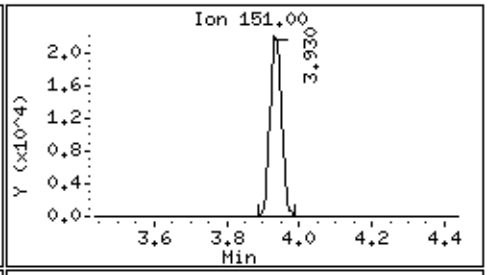


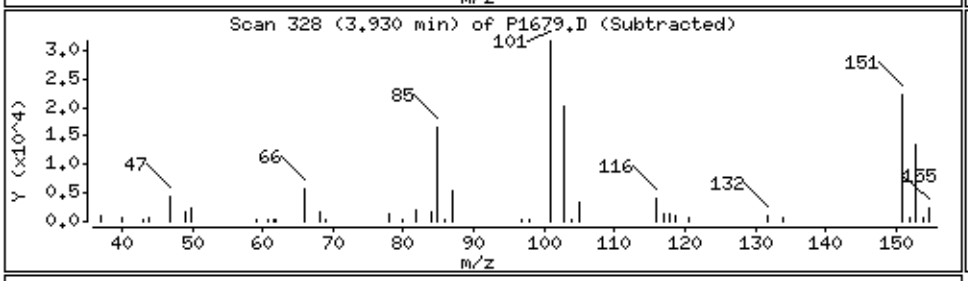


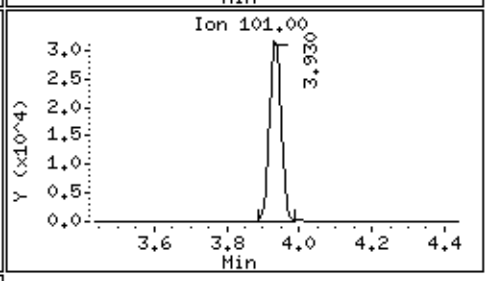
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D
Date : 29-JUN-2015 18:55
Client ID: 159-062515-338-340 Instrument: gcms-p.i
Sample Info: SI4557-9

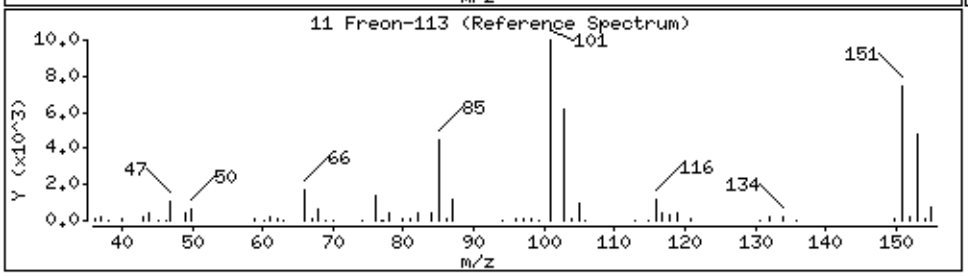
11 Freon-113 Concentration: 19.7 ug/l



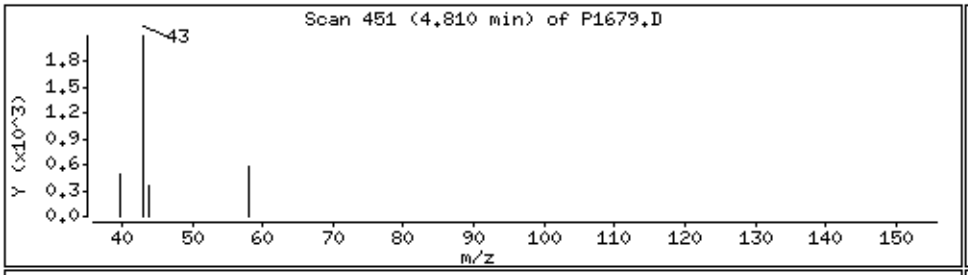


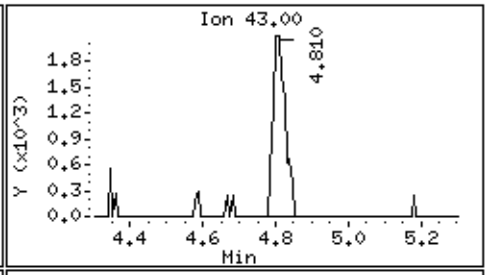


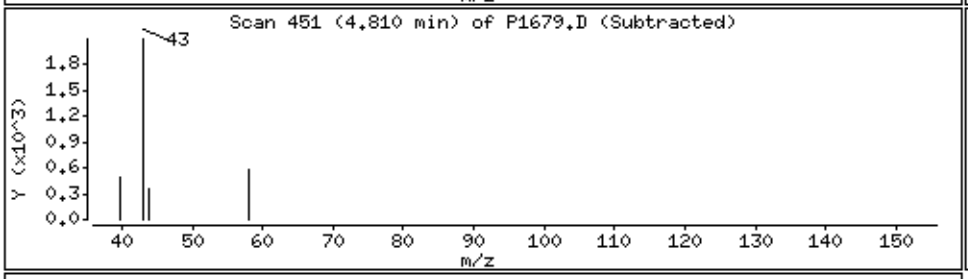


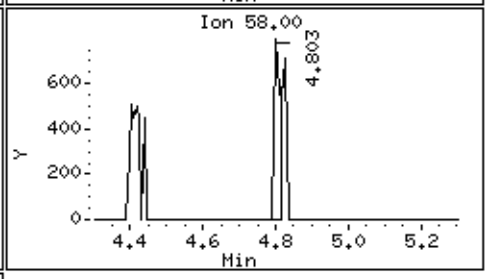


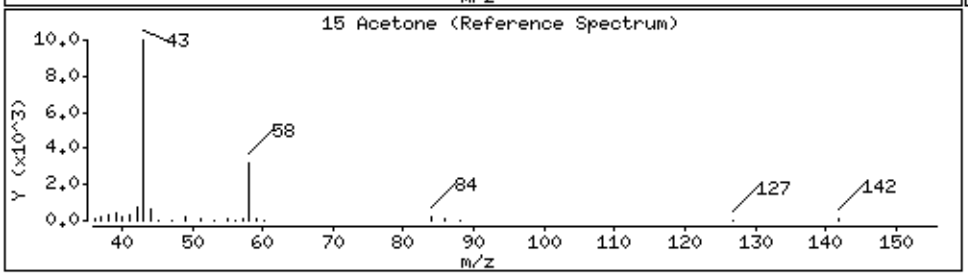
15 Acetone Concentration: 2.8 ug/l





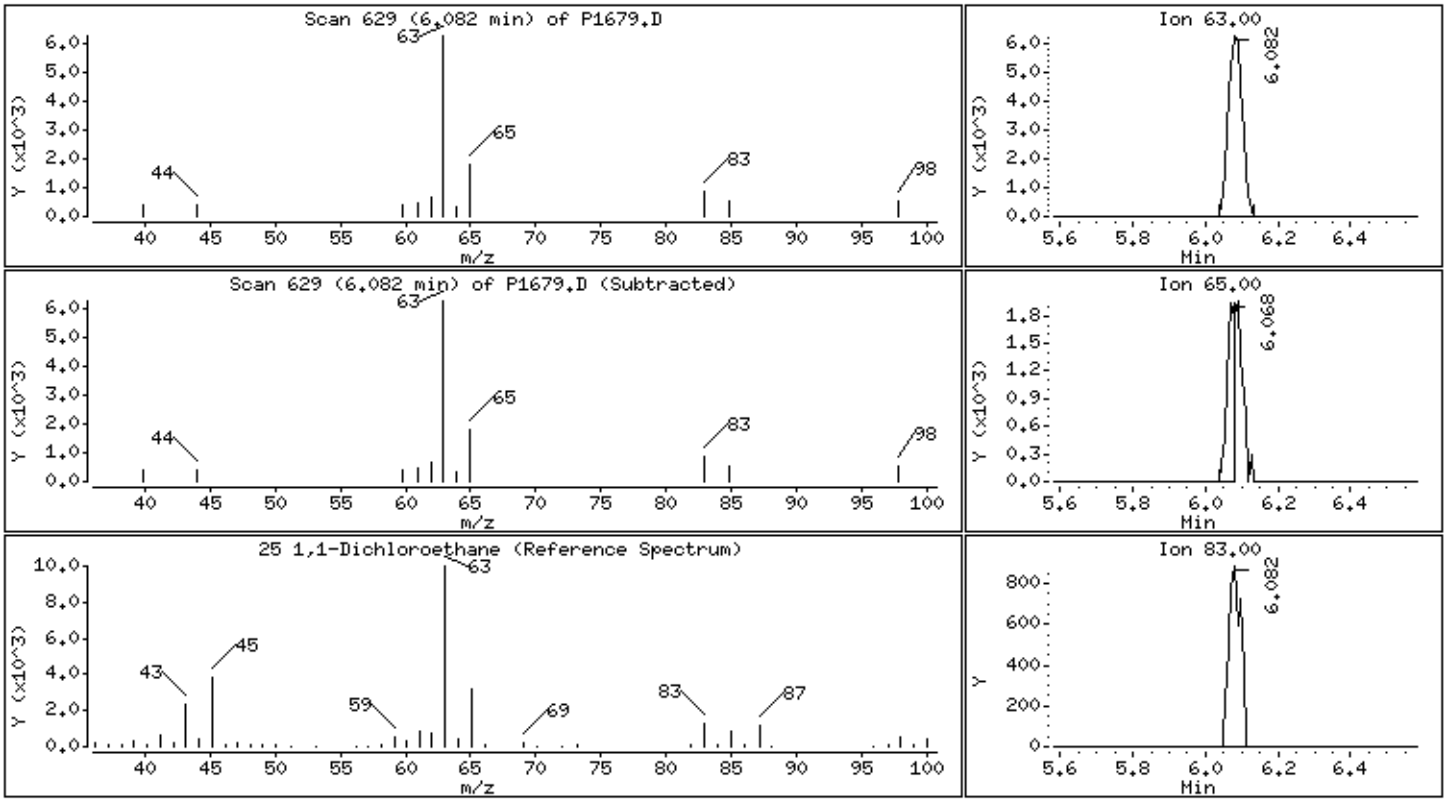




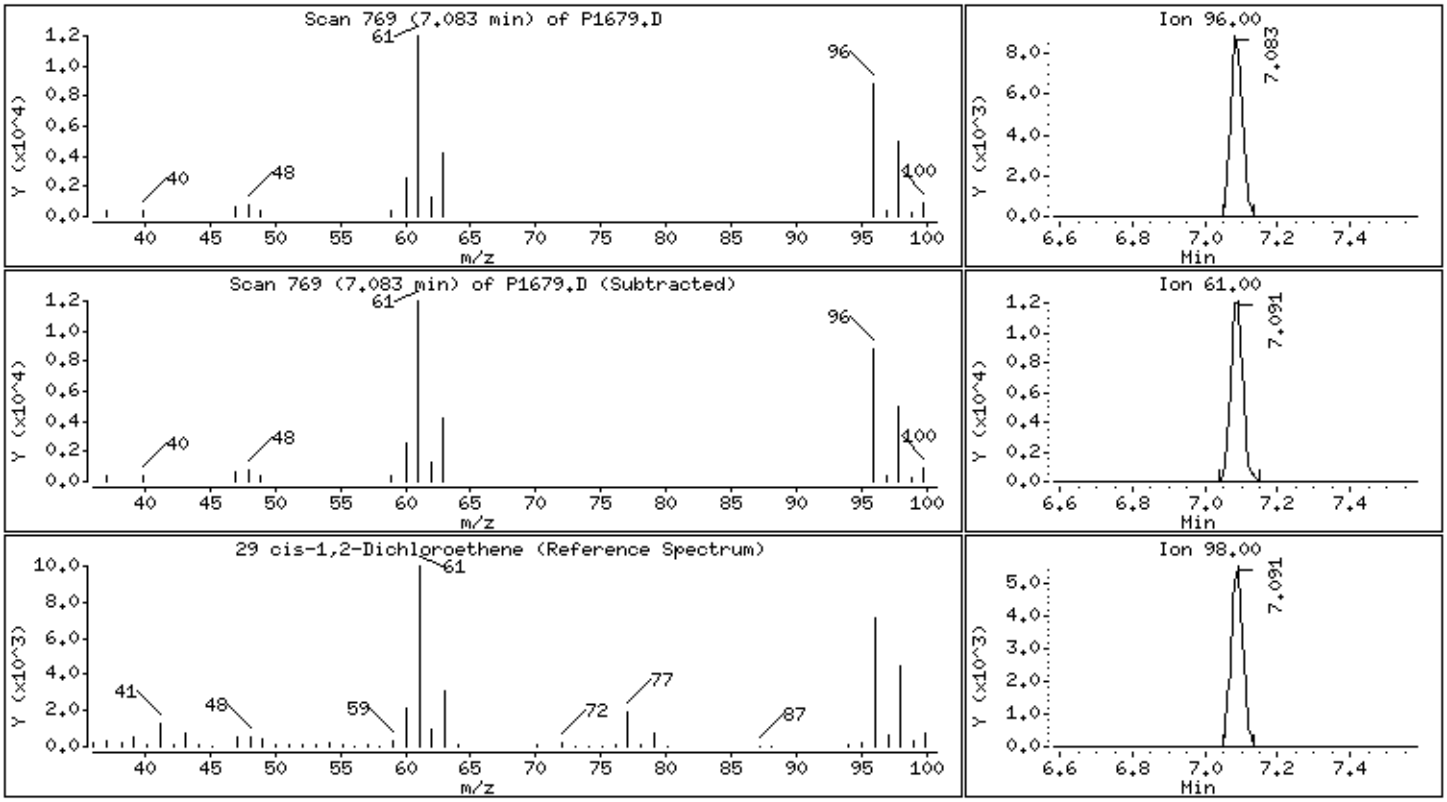


Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D
Date : 29-JUN-2015 18:55
Client ID: 159-062515-338-340 Instrument: gcms-p.i
Sample Info: SI4557-9

25 1,1-Dichloroethane Concentration: 2.1 ug/l



29 cis-1,2-Dichloroethene Concentration: 3.9 ug/l



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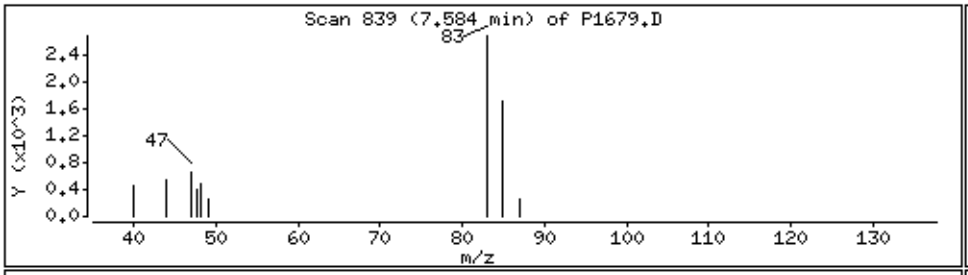
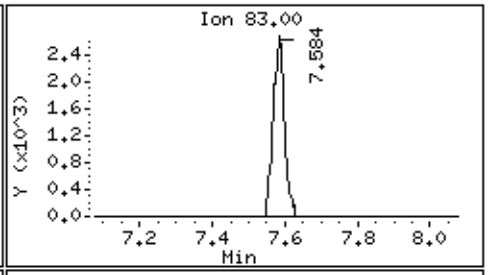
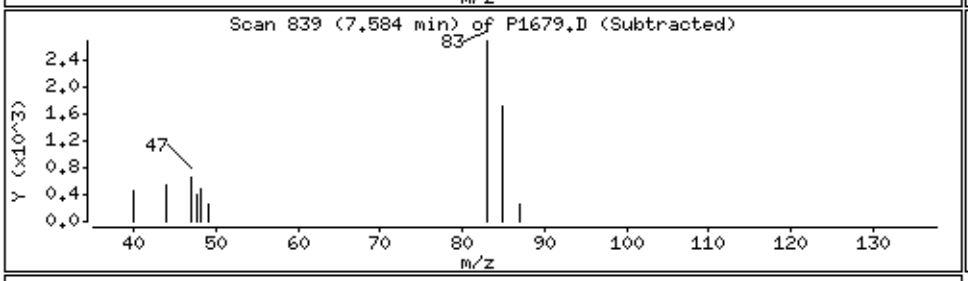
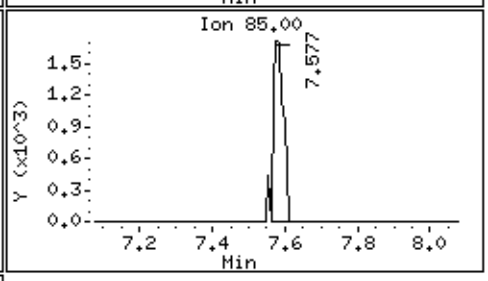
Date : 29-JUN-2015 18:55
Client ID: 159-062515-338-340 Instrument: gcms-p.i
Sample Info: SI4557-9

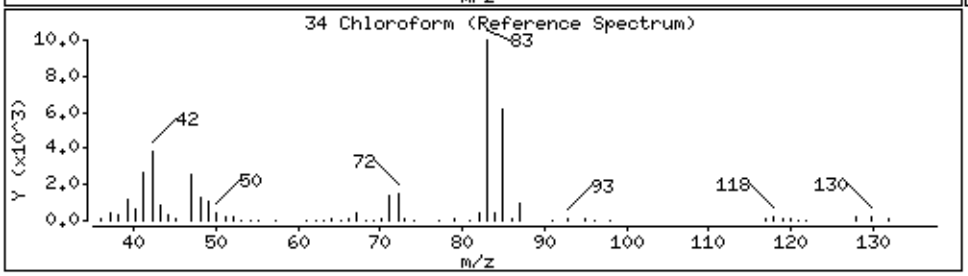
34 Chloroform Concentration: 0.68 ug/l



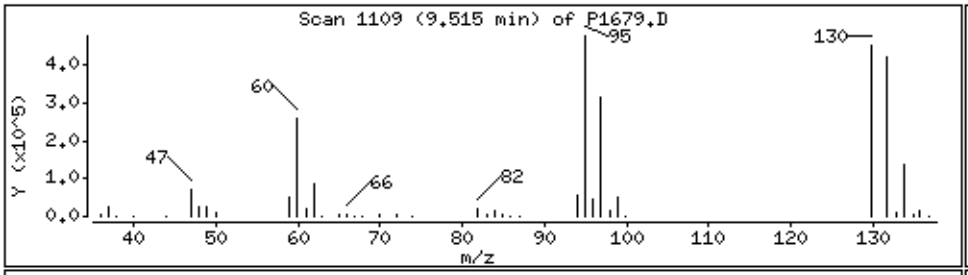


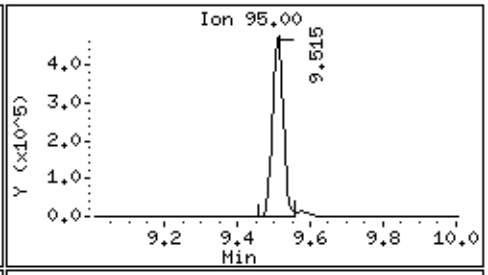


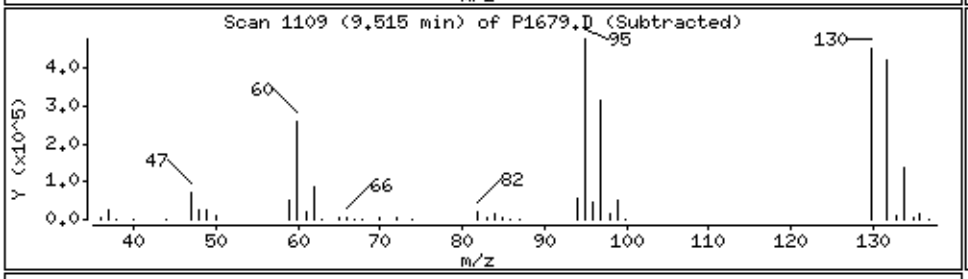


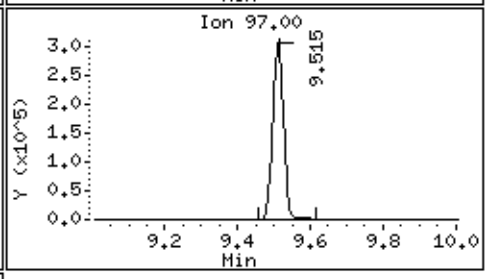


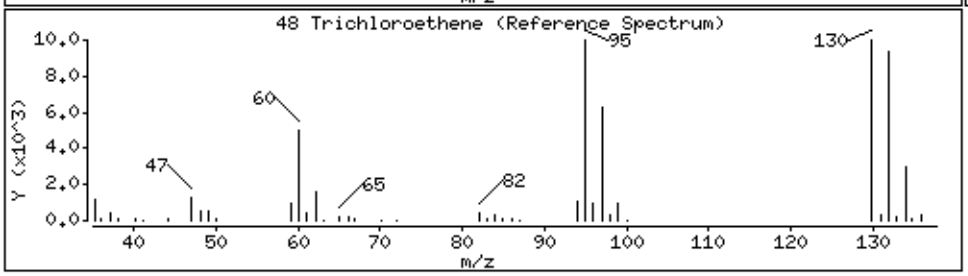
48 Trichloroethene Concentration: 224 ug/l











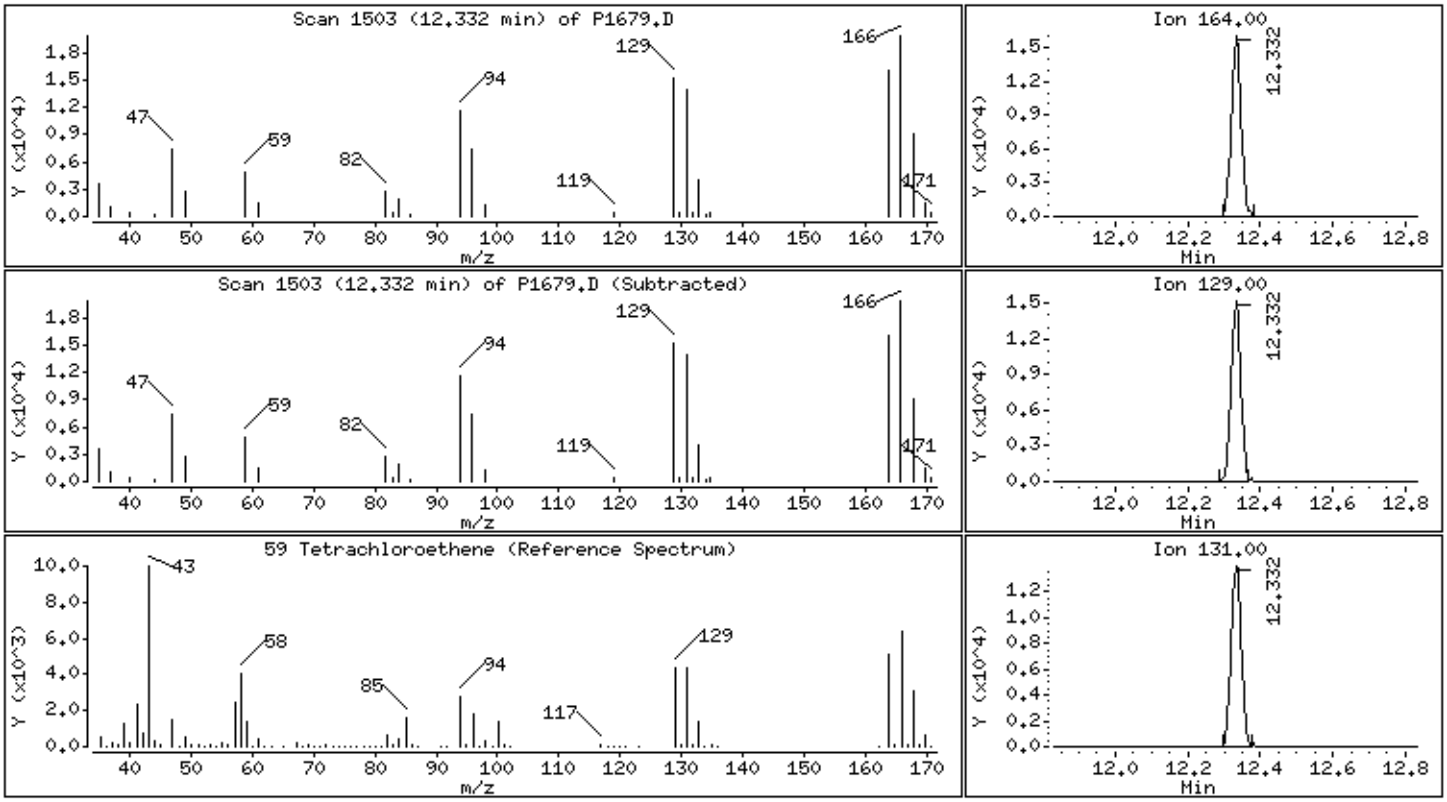
Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1679.D

Date : 29-JUN-2015 18:55

Client ID: 159-062515-338-340 Instrument: gcms-p.i

Sample Info: SI4557-9

59 Tetrachloroethene Concentration: 9.8 ug/l



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4557-9DL
Client ID: 159-062515-338-340
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1700.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740

Analysis Date: 30-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	5.0	ug/L	5	2	10.	1.2	5.0
Chloromethane	U	5.0	ug/L	5	2	10.	1.8	5.0
Vinyl Chloride	U	5.0	ug/L	5	2	10.	1.2	5.0
Bromomethane	U	5.0	ug/L	5	2	10.	2.4	5.0
Chloroethane	U	5.0	ug/L	5	2	10.	2.8	5.0
Trichlorofluoromethane	U	5.0	ug/L	5	2	10.	1.2	5.0
1,1-Dichloroethene	J	3.2	ug/L	5	1	5.0	1.8	2.5
Carbon Disulfide	U	2.5	ug/L	5	1	5.0	1.2	2.5
Freon-113		16	ug/L	5	1	5.0	1.6	2.5
Methylene Chloride	U	12	ug/L	5	5	25.	5.6	12.
Acetone	U	12	ug/L	5	5	25.	11.	12.
trans-1,2-Dichloroethene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Methyl tert-butyl Ether	U	2.5	ug/L	5	1	5.0	1.8	2.5
1,1-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
cis-1,2-Dichloroethene	J	4.2	ug/L	5	1	5.0	1.0	2.5
Chloroform	U	2.5	ug/L	5	1	5.0	1.6	2.5
1,1,1-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
2-Butanone	U	12	ug/L	5	5	25.	6.6	12.
Cyclohexane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Carbon Tetrachloride	U	2.5	ug/L	5	1	5.0	1.1	2.5
Benzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,2-Dichloroethane	U	2.5	ug/L	5	1	5.0	1.0	2.5
Trichloroethene		210	ug/L	5	1	5.0	1.4	2.5
1,2-Dichloropropane	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromodichloromethane	U	2.5	ug/L	5	1	5.0	1.6	2.5
cis-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	0.95	2.5
Toluene	U	2.5	ug/L	5	1	5.0	1.4	2.5
4-Methyl-2-Pentanone	U	12	ug/L	5	5	25.	6.6	12.
trans-1,3-Dichloropropene	U	2.5	ug/L	5	1	5.0	1.0	2.5
1,1,2-Trichloroethane	U	2.5	ug/L	5	1	5.0	1.6	2.5
Tetrachloroethene		8.6	ug/L	5	1	5.0	2.0	2.5
Dibromochloromethane	U	2.5	ug/L	5	1	5.0	1.5	2.5
2-Hexanone	U	12	ug/L	5	5	25.	8.5	12.
Chlorobenzene	U	2.5	ug/L	5	1	5.0	1.1	2.5
Ethylbenzene	U	2.5	ug/L	5	1	5.0	1.0	2.5

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: SI4557-9DL
Client ID: 159-062515-338-340
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4557
Lab File ID: P1700.D

Sample Date: 25-JUN-15
Received Date: 26-JUN-15
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740

Analysis Date: 30-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	7.5	ug/L	5	3	15.	1.2	7.5
Styrene	U	2.5	ug/L	5	1	5.0	1.2	2.5
Bromoform	U	2.5	ug/L	5	1	5.0	1.2	2.5
Isopropylbenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,1,2,2-Tetrachloroethane	U	2.5	ug/L	5	1	5.0	1.9	2.5
1,3-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.3	2.5
1,4-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	1.2	2.5
1,2-Dichlorobenzene	U	2.5	ug/L	5	1	5.0	0.75	2.5
1,2,4-Trichlorobenzene	U	2.5	ug/L	5	1	5.0	1.8	2.5
Methyl Acetate	U	3.8	ug/L	5	1	5.0	2.6	3.8
Methylcyclohexane	U	2.5	ug/L	5	1	5.0	1.5	2.5
o-Xylene	U	2.5	ug/L	5	1	5.0	1.2	2.5
M+P-Xylenes	U	5.0	ug/L	5	2	10.	3.0	5.0
1,2-Dichloroethylene (Total)	J	4.2	ug/L	5	2	10.	1.0	5.0
1,2-Dibromoethane	U	2.5	ug/L	5	1	5.0	1.1	2.5
1,2-Dibromo-3-Chloropropane	U	3.8	ug/L	5	1	5.0	2.5	3.8
P-Bromofluorobenzene		88.5	%					
Toluene-d8		94.6	%					
1,2-Dichloroethane-d4		97.8	%					
Dibromofluoromethane		87.9	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1700.D
Report Date: 08-Jul-2015 13:31

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P063015.b\P1700.D
Lab Smp Id: SI4557-9DL Client Smp ID: 159-062515-338-340
Inj Date : 30-JUN-2015 14:47 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : SI4557-9DL
Misc Info : WG165740,WG165276-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P063015.b\P826A09.m
Meth Date : 08-Jul-2015 13:28 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 10
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

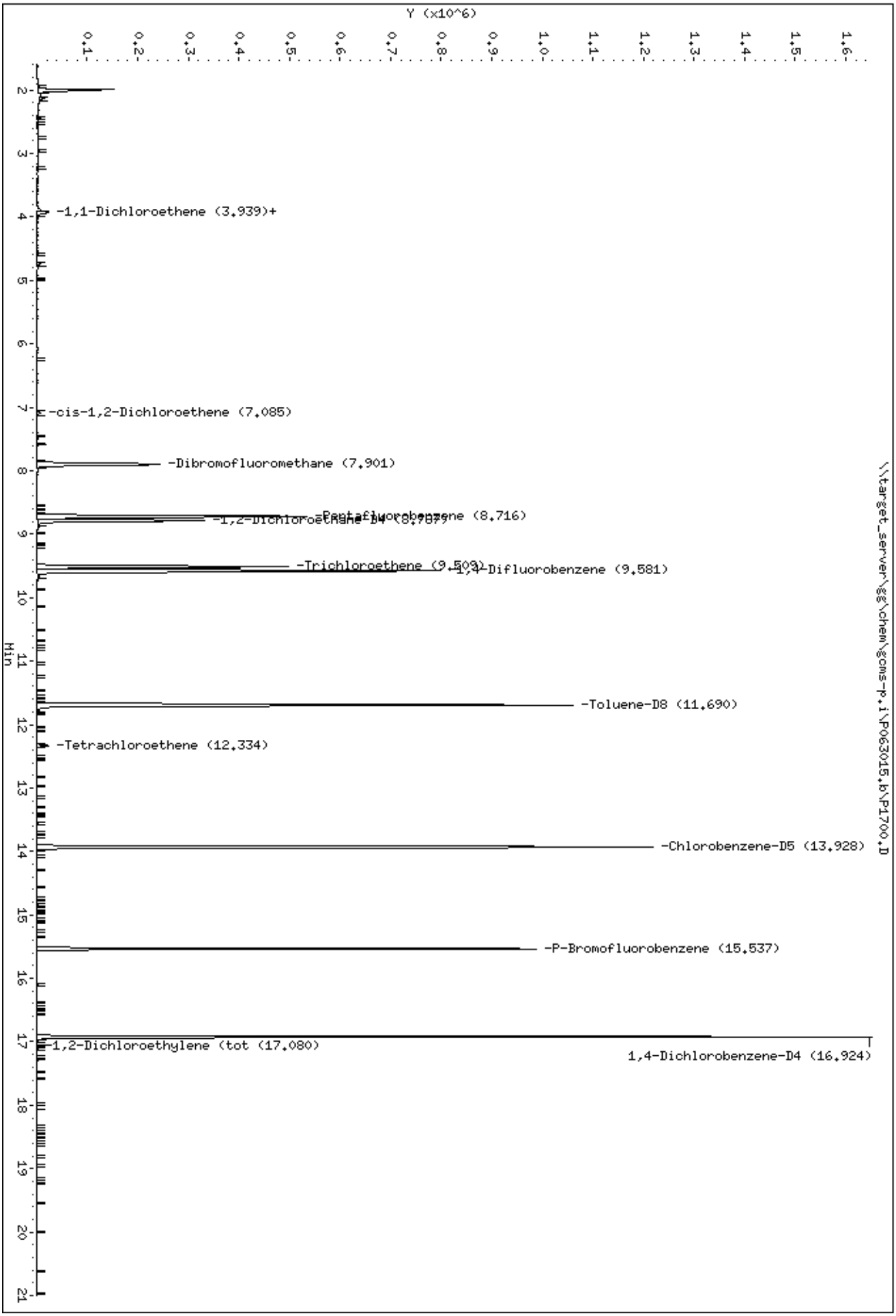
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	5.000	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)	2407	0.65089	3.2(a)	
11 Freon-113	151	3.932	3.939	(0.451)	7748	3.28569	16.4	
29 cis-1,2-Dichloroethene	96	7.092	7.085	(0.813)	4047	0.83955	4.2(a)	
M 30 1,2-Dichloroethylene (total)	96				4047	0.83955	4.2(a)	
$ 37 Dibromofluoromethane	113	7.900	7.900	(0.906)	171239	43.9616	44.0	
* 42 Pentafluorobenzene	168	8.722	8.715	(1.000)	360112	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	267442	48.8903	48.9	
48 Trichloroethene	95	9.509	9.509	(0.993)	176745	42.2543	211	
* 49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	652765	50.0000		
$ 55 Toluene-D8	98	11.690	11.690	(1.220)	683433	47.3283	47.3	
59 Tetrachloroethene	164	12.340	12.333	(0.886)	4987	1.71377	8.6	
* 66 Chlorobenzene-D5	117	13.935	13.935	(1.000)	586044	50.0000		
$ 76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	290804	44.2719	44.3	
* 91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	322101	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).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Date : 30-JUN-2015 14:47
Client ID: 159-062515-338-340
Sample Info: SI4557-9DL
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P063015.b\P1700.D
Y (x10^6)
Min
-1,1-Dichloroethene (3.939)+
-cis-1,2-Dichloroethene (7.085)
-Dibromofluoromethane (7.901)
-Pentafluorobenzene (8.716)
-1,2-Dichloroethane-D4 (8.787)
-Trichloroethene (9.509)
1,4-Difluorobenzene (9.581)
-Toluene-D8 (11.690)
-Tetrachloroethene (12.334)
-Chlorobenzene-D5 (13.928)
-P-Bromofluorobenzene (15.537)
-1,2-Dichloroethylene (tot (17.080)
1,4-Dichlorobenzene-D4 (16.924)

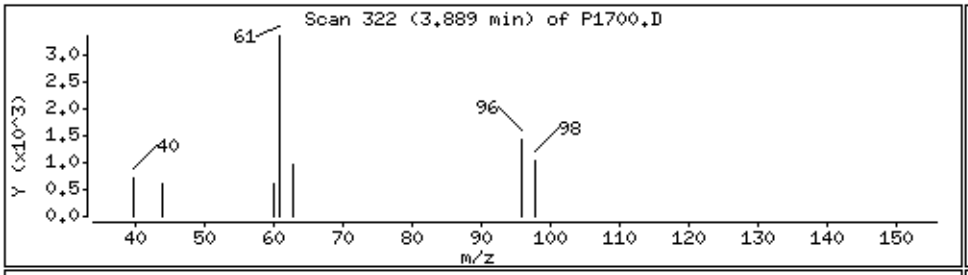
Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1700.D

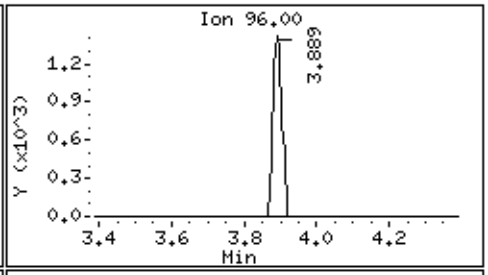
Date : 30-JUN-2015 14:47

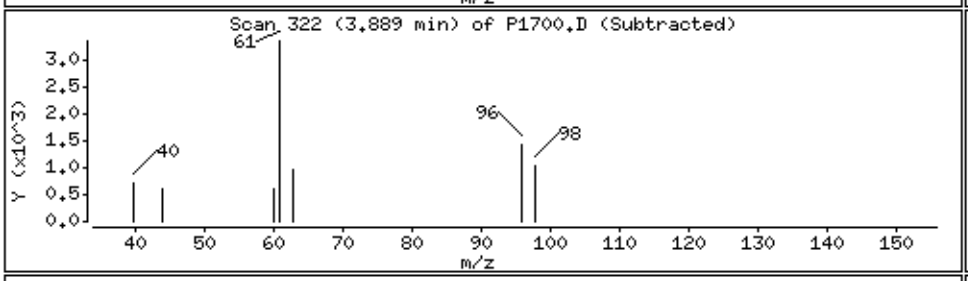
Client ID: 159-062515-338-340 Instrument: gcms-p.i

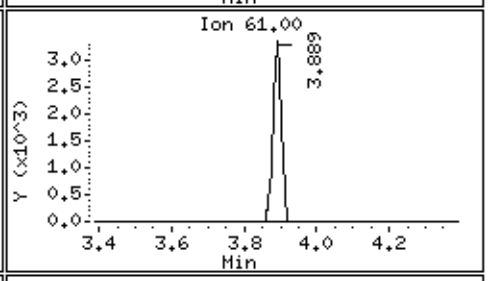
Sample Info: SI4557-9DL

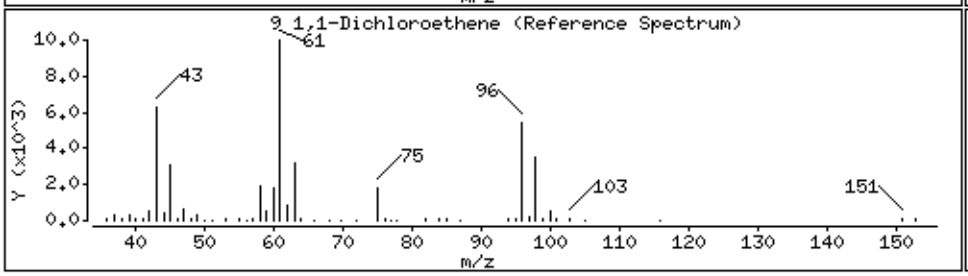
9 1,1-Dichloroethene Concentration: 3.2 ug/l

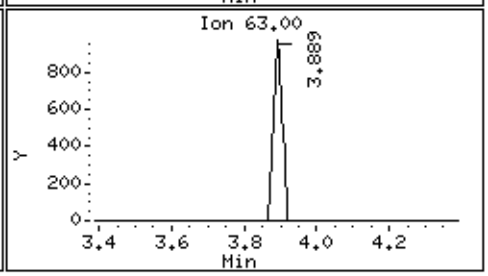




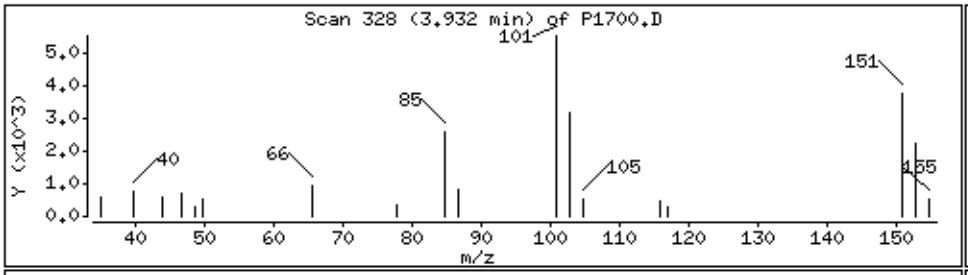


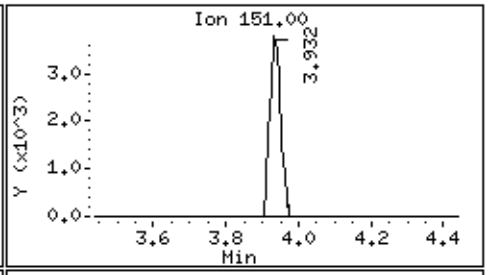


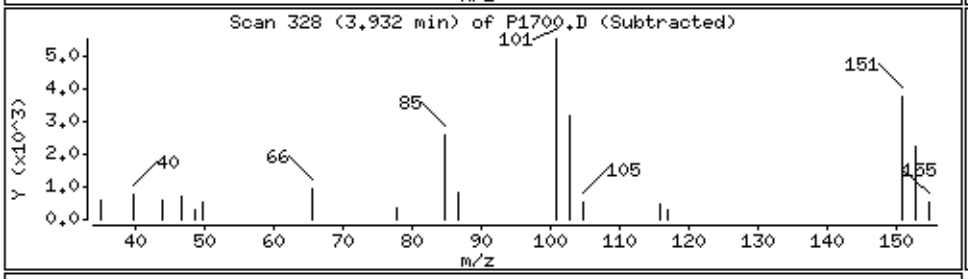


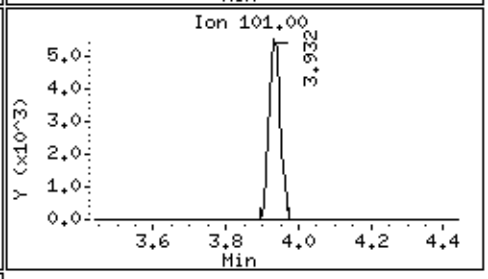


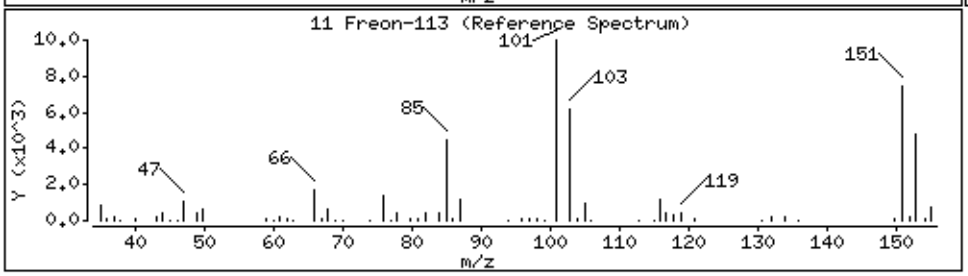
11 Freon-113 Concentration: 16.4 ug/l





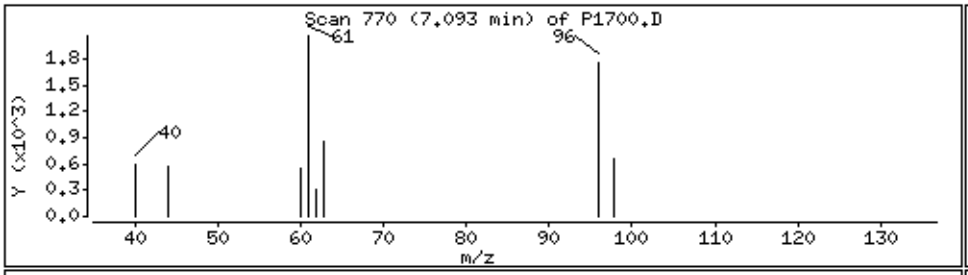


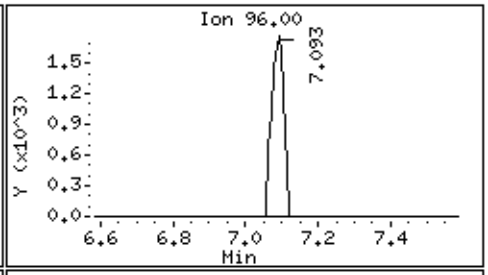


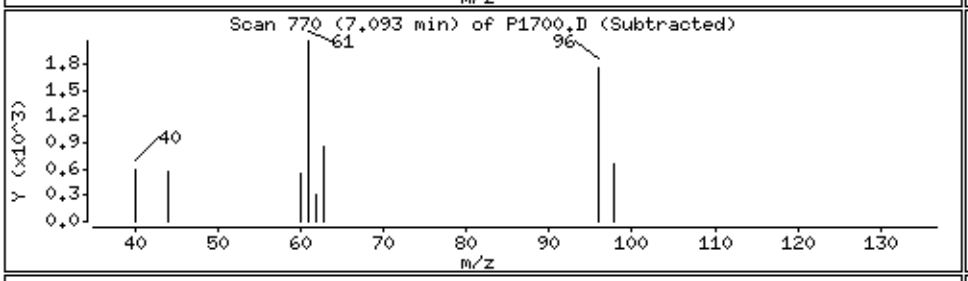


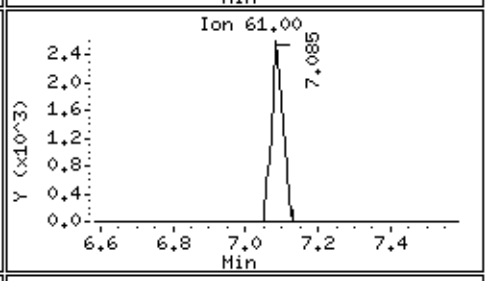
Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1700.D
Date : 30-JUN-2015 14:47
Client ID: 159-062515-338-340 Instrument: gcms-p.i
Sample Info: SI4557-9DL

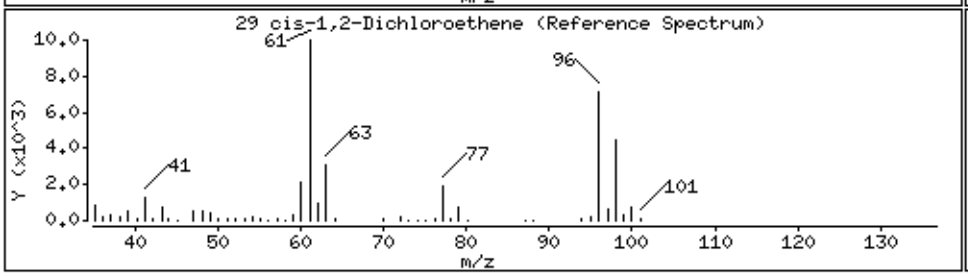
29 cis-1,2-Dichloroethene Concentration: 4.2 ug/l

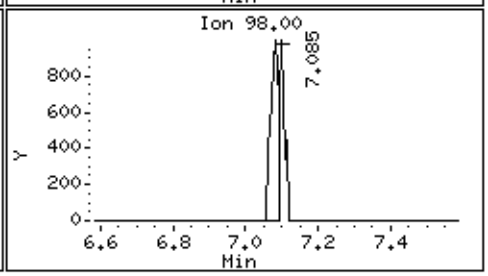




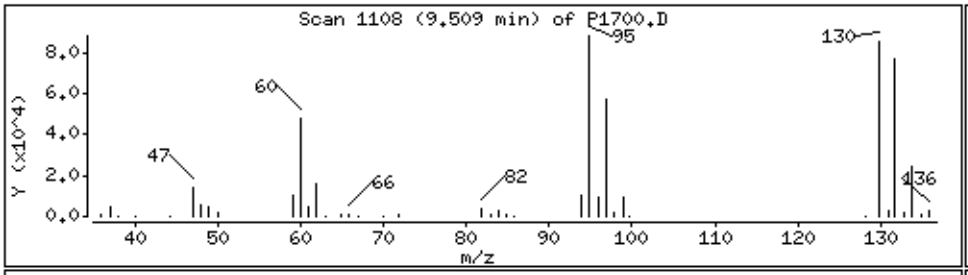


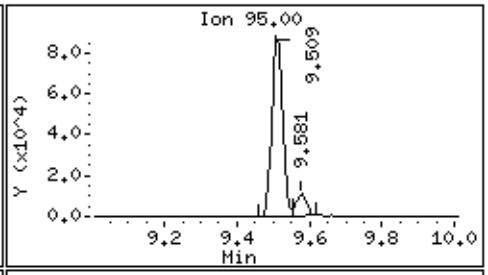


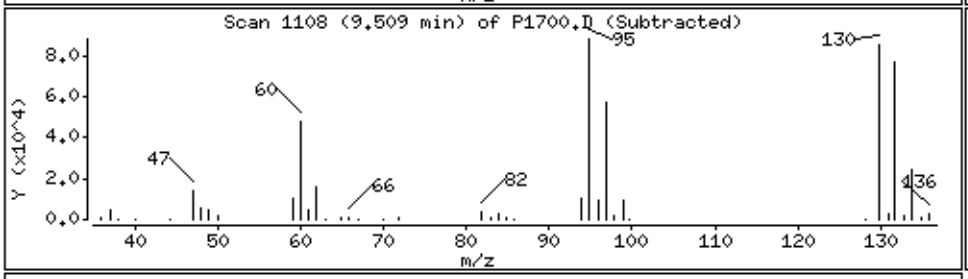


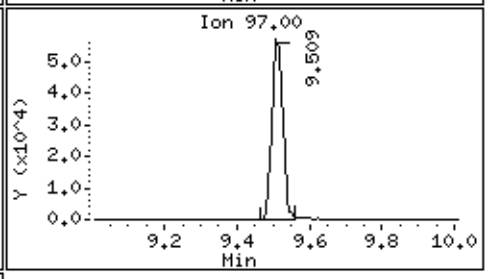


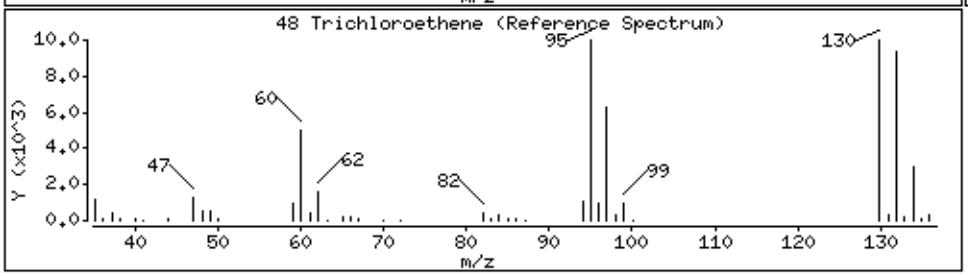
48 Trichloroethene Concentration: 211 ug/l











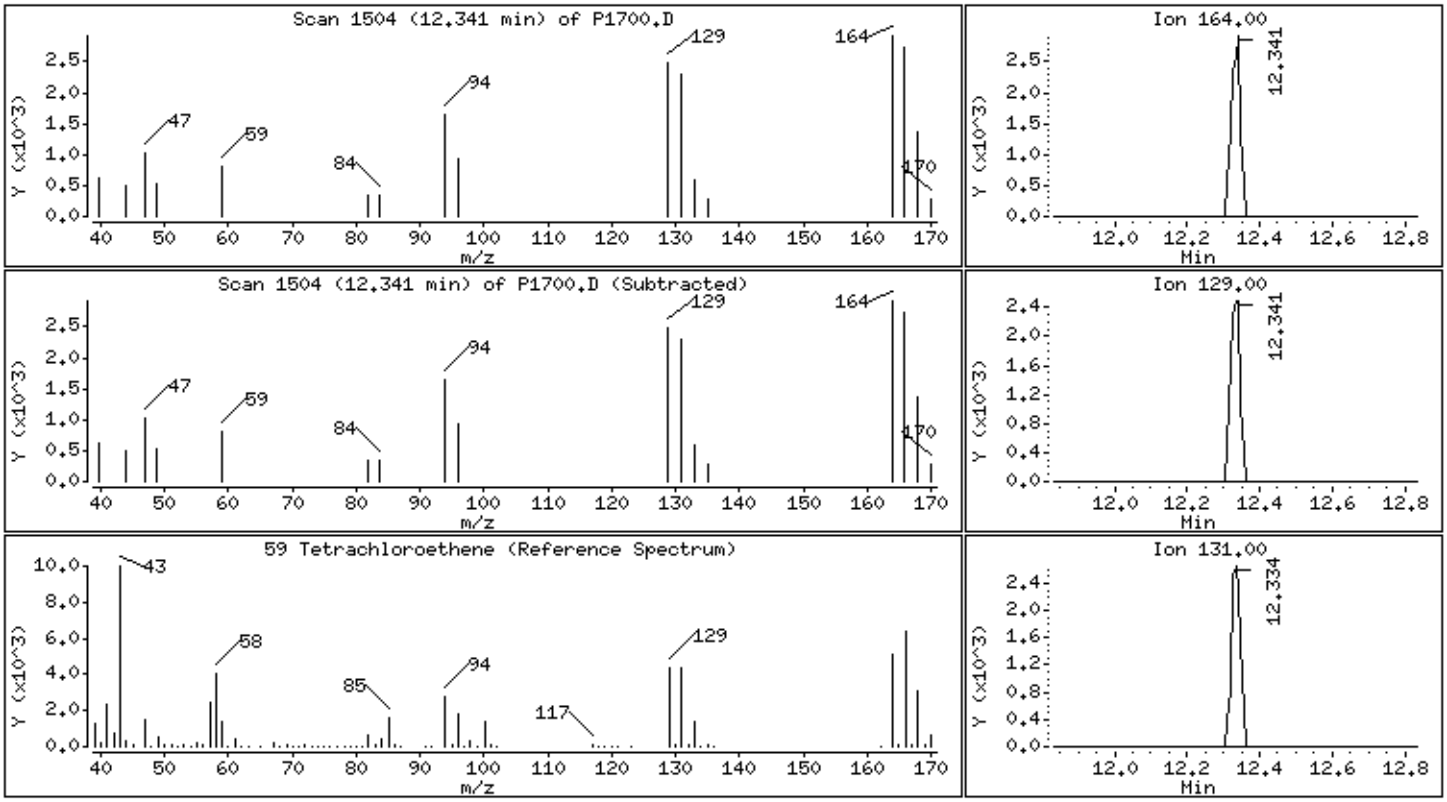
Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1700.D

Date : 30-JUN-2015 14:47

Client ID: 159-062515-338-340 Instrument: gcms-p.i

Sample Info: SI4557-9DL

59 Tetrachloroethene Concentration: 8.6 ug/l



Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4557
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

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	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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P.O. Box 540, Scarborough, ME 04070
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http://katahdinlab.com
sales@katahdinlab.com

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4557
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

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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Report Date: 23-Jun-2015 11:39

	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

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1539A.D
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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

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1533.D
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	

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
	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	

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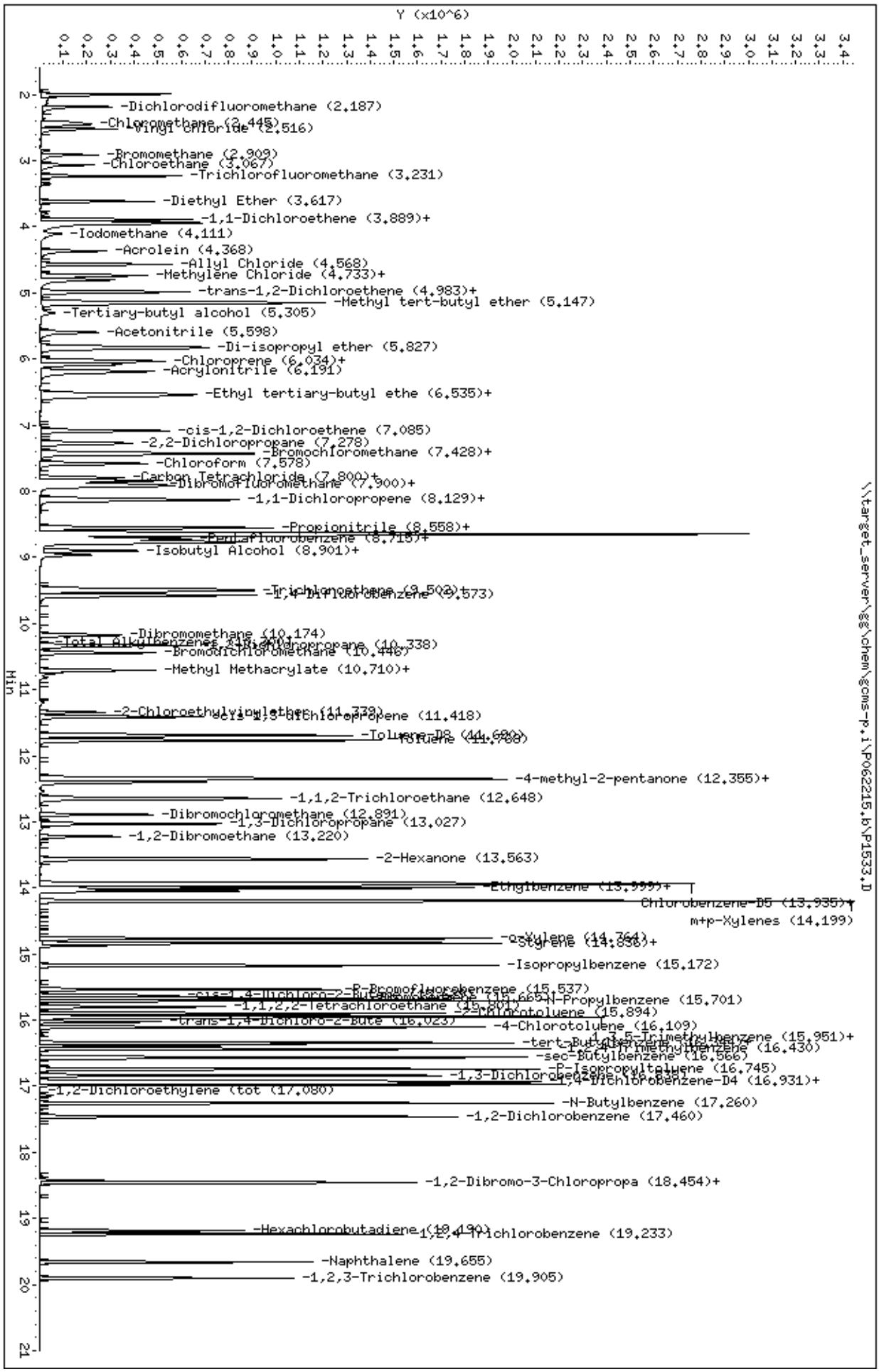
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	15.700	15.701	(0.928)	1441350	50.0000	50.0	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	342937	50.0000	50.0	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	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



Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1534.D
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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2:01 pm, Jul 08, 2015

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

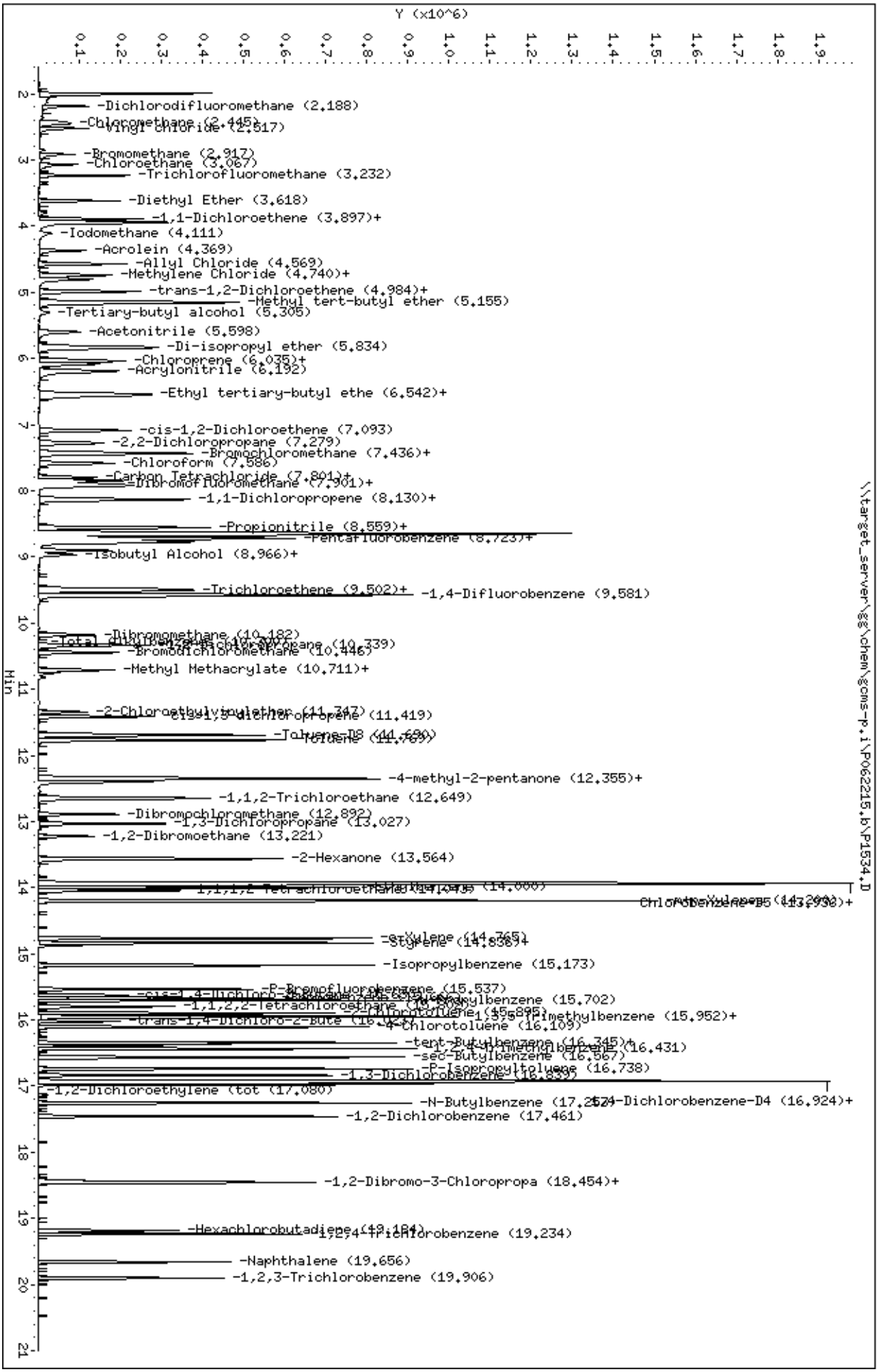
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	611935	20.0000	20.7	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	145705	20.0000	21.0	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	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

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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	

REC
2:01 pm, Jul 08, 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

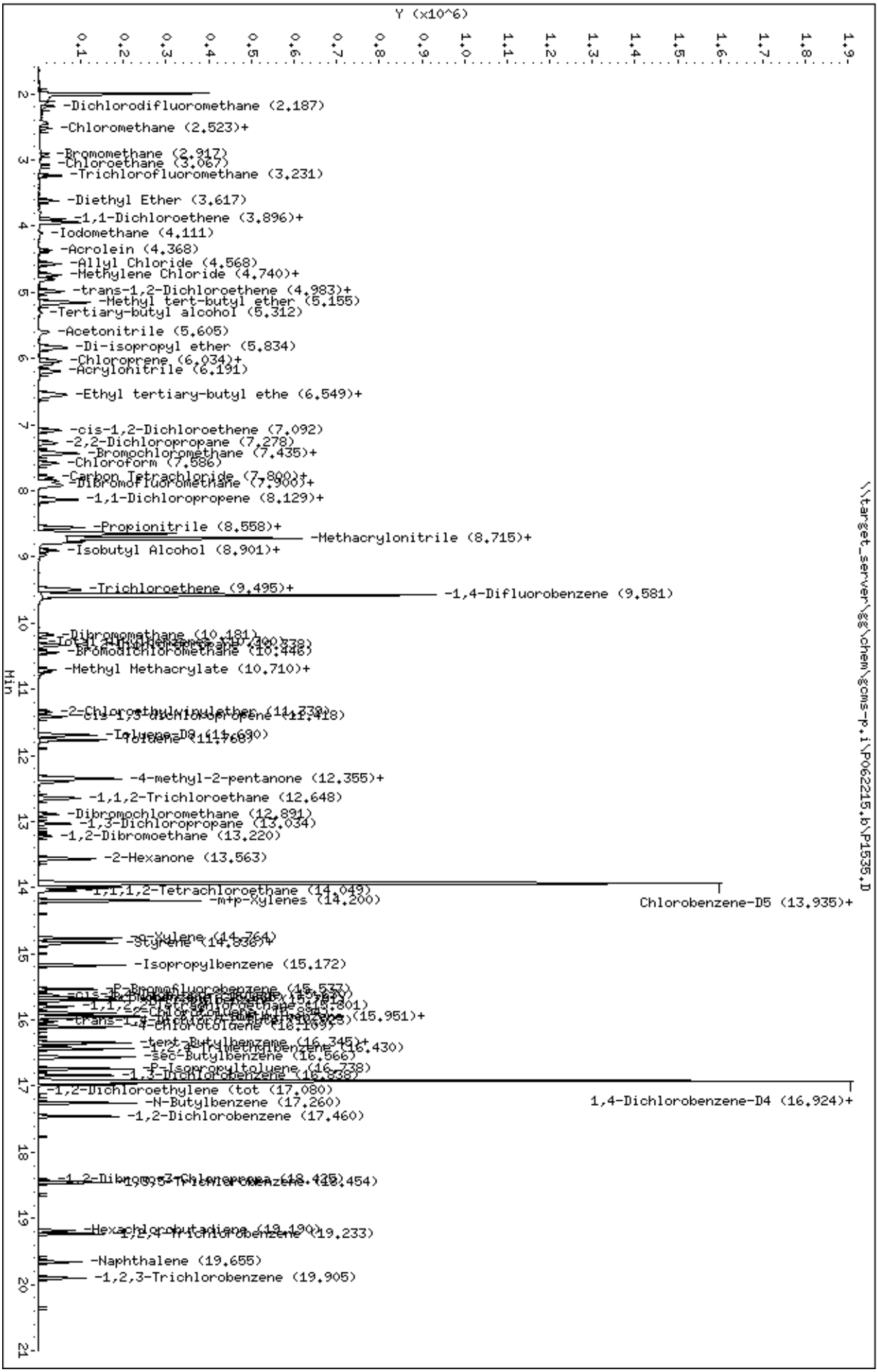
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	9009	5.00000	4.8	
	79 Bromobenzene	156	15.665	15.665	(0.926)	28135	5.00000	4.7	
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	150119	5.00000	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
2:02 pm, Jul 08, 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

2:02 pm, Jul 08, 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)	

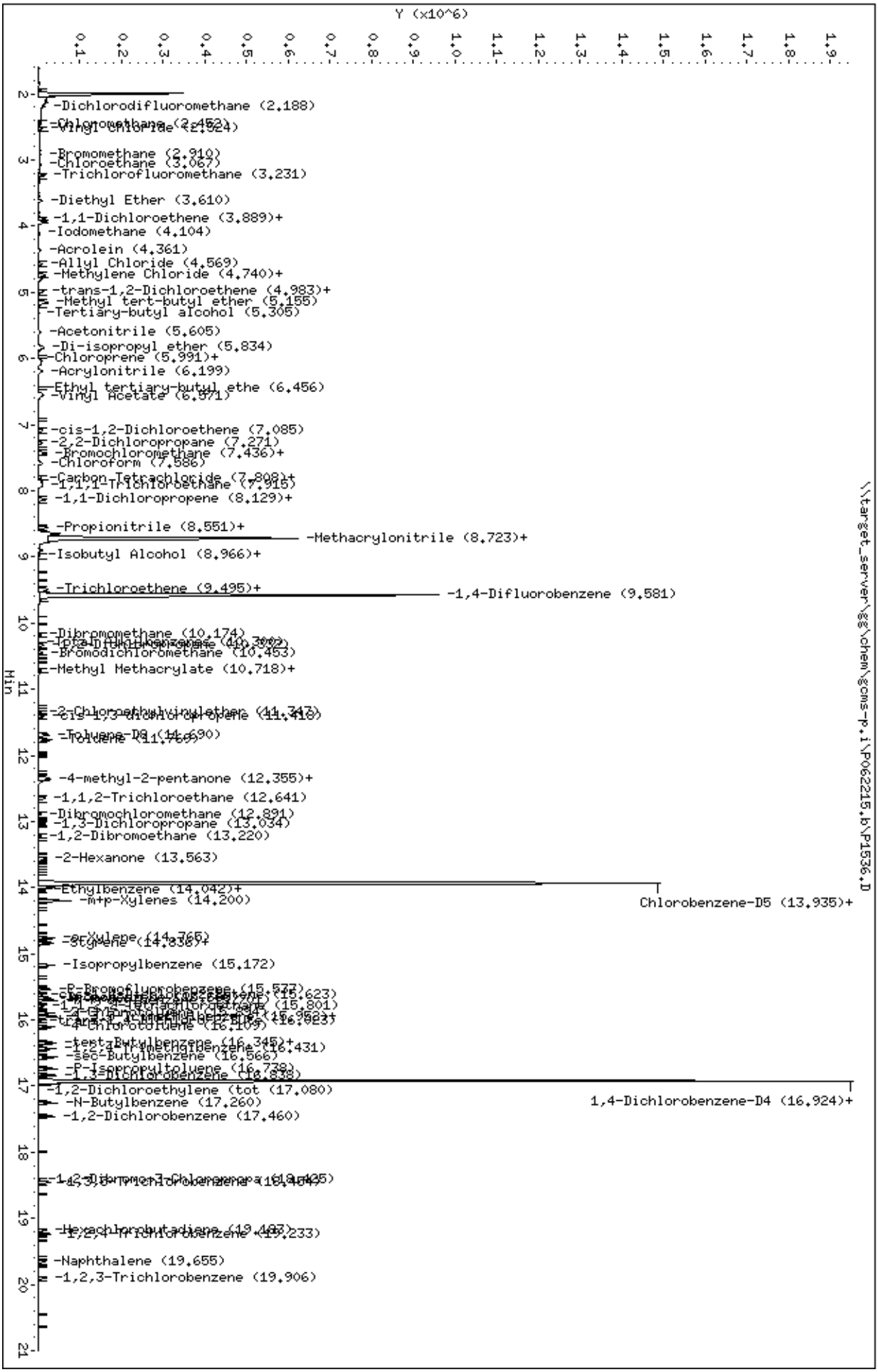
REC
2:02 pm, Jul 08, 2015

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



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

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062215.b\P1537.D
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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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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	6.091	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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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	(0.946)	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.

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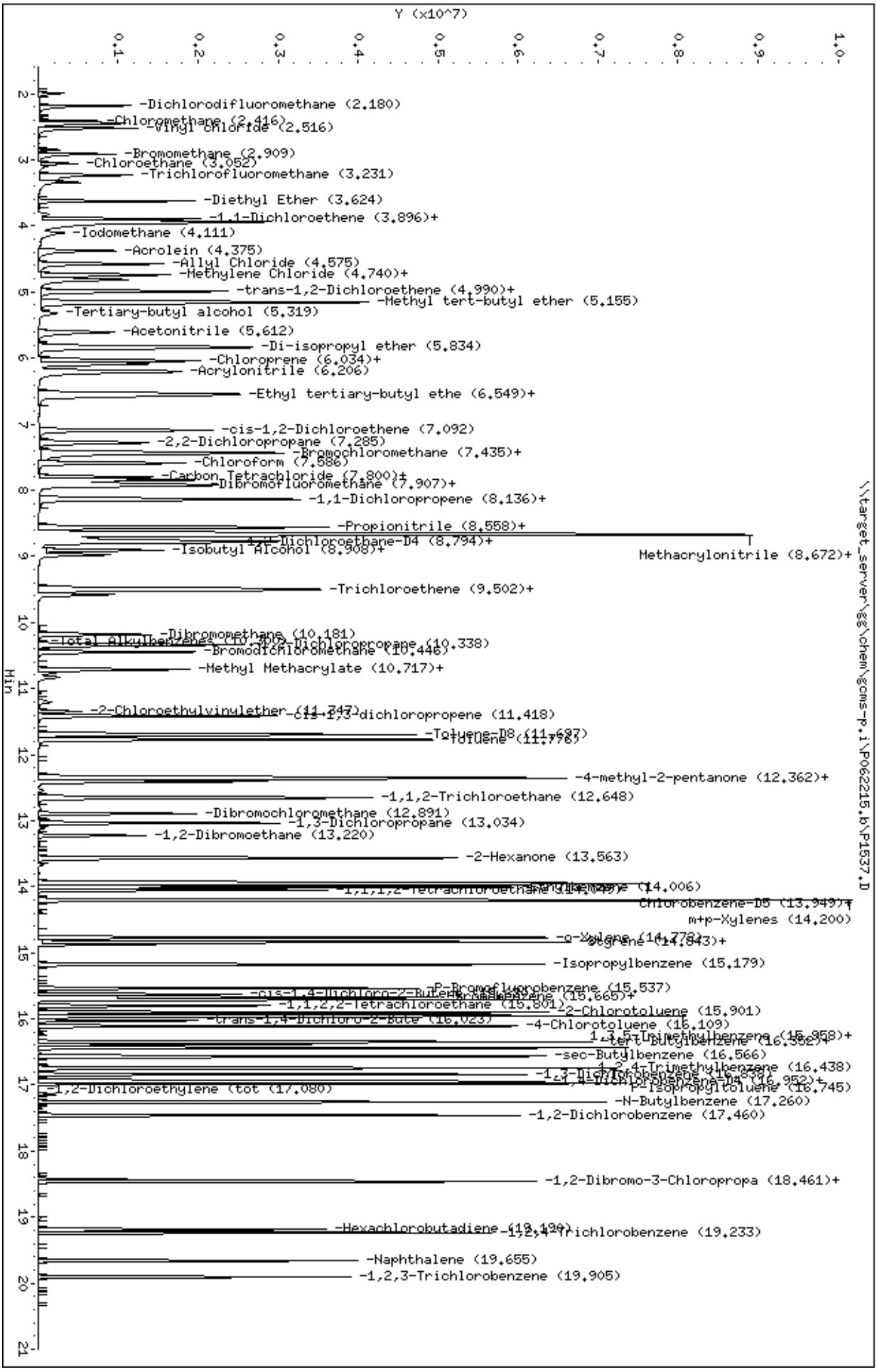
Client ID: Initial Calibration
Sample Info: WG165276-6
Purge Volume: 5.0
Column phase: RTX-VMS

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



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Injection Date: 22-JUN-2015 10:55
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromomethane
CAS Number: 74-83-9

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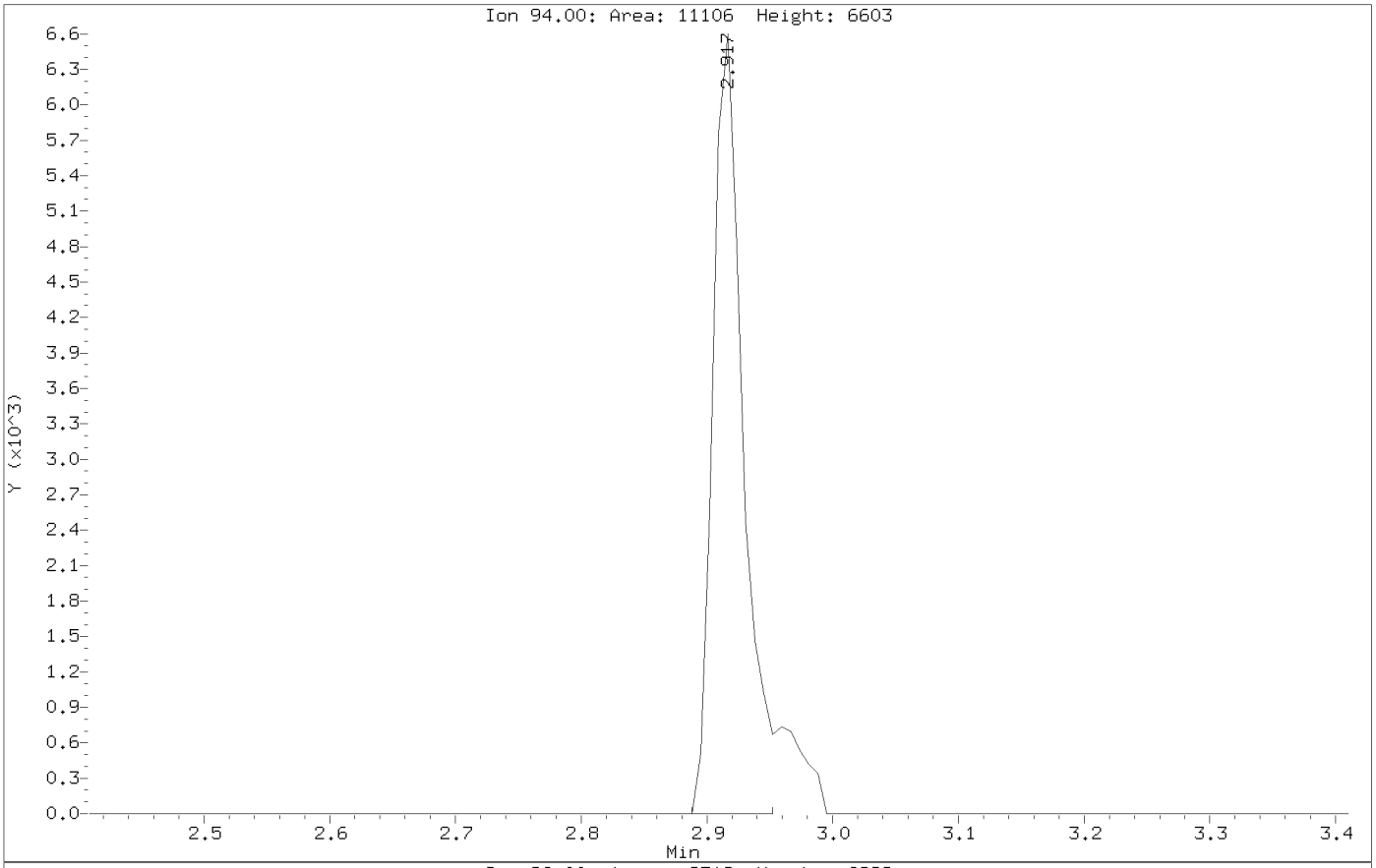

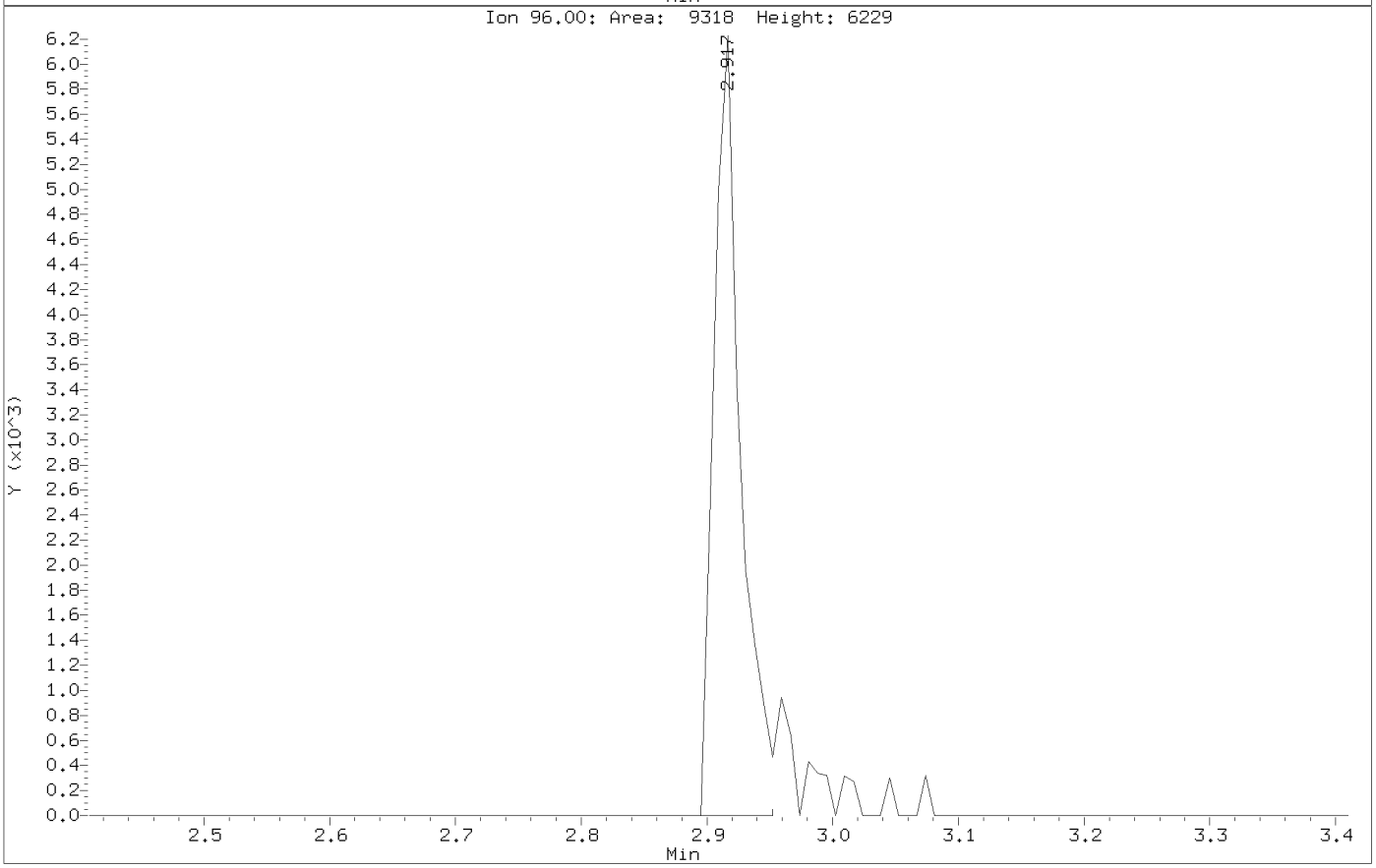

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Compound: Bromomethane
CAS Number: 74-83-9

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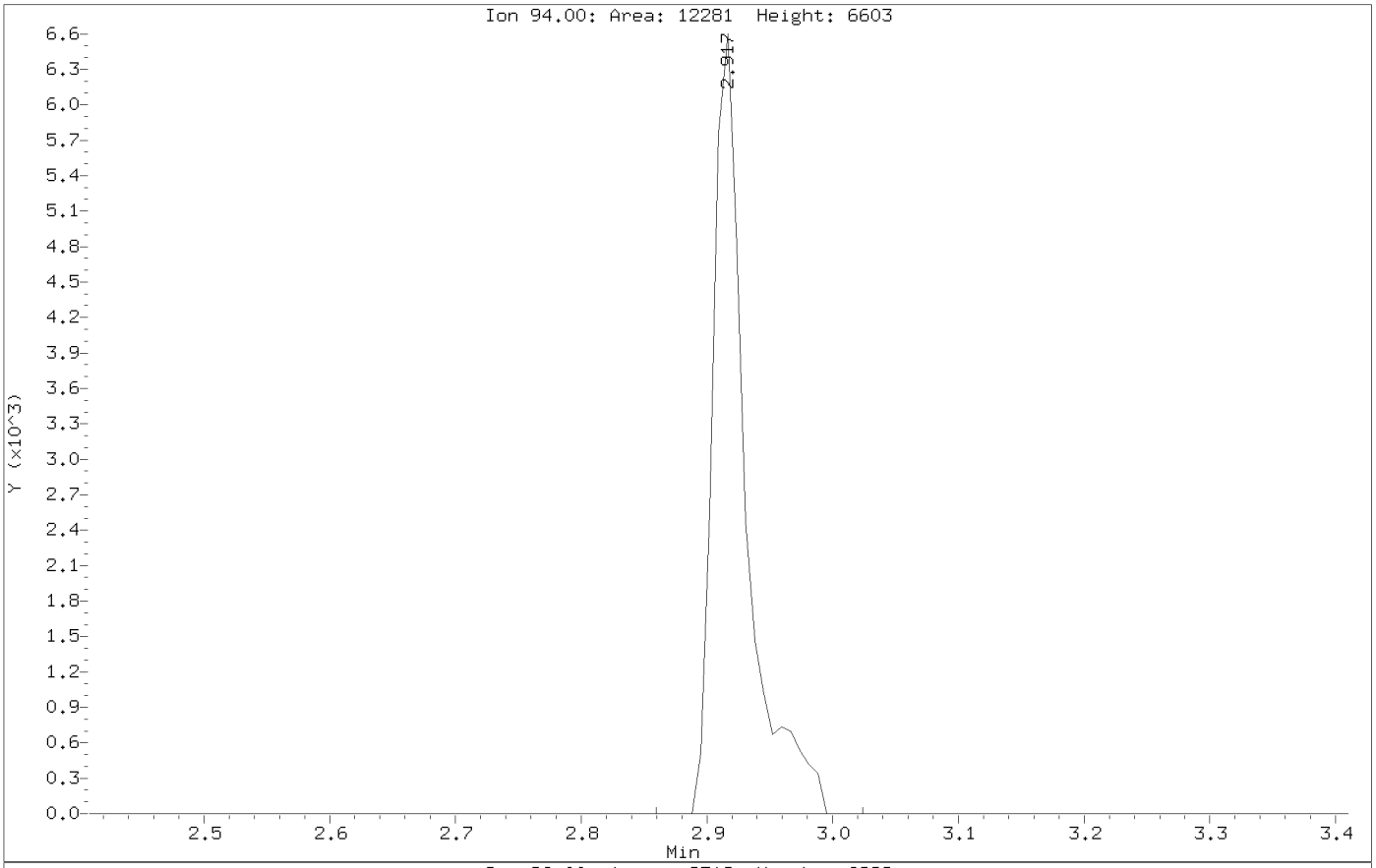

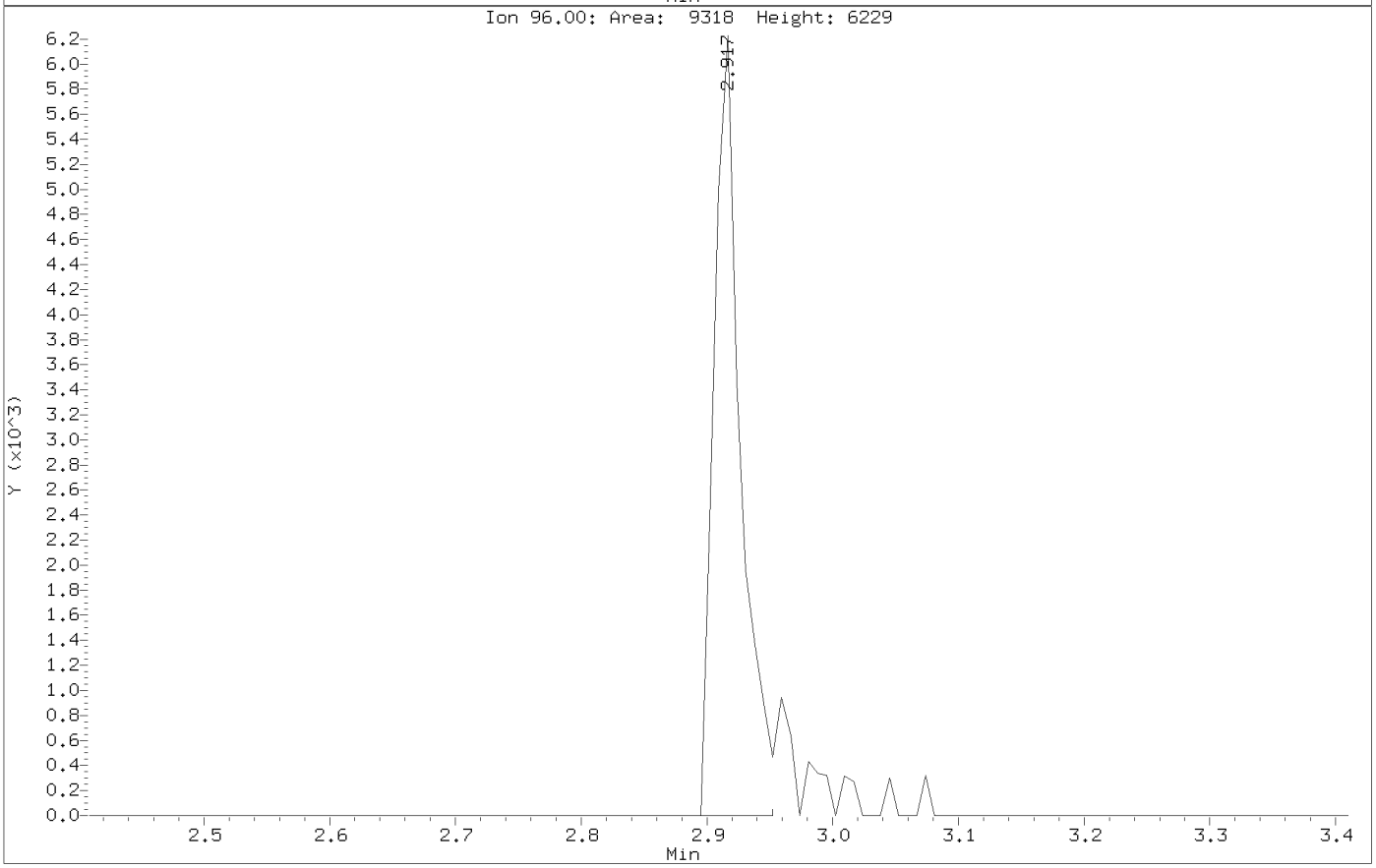

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Instrument: gcms-p.i
Client Sample ID:

Compound: Chloromethane
CAS Number: 74-87-3

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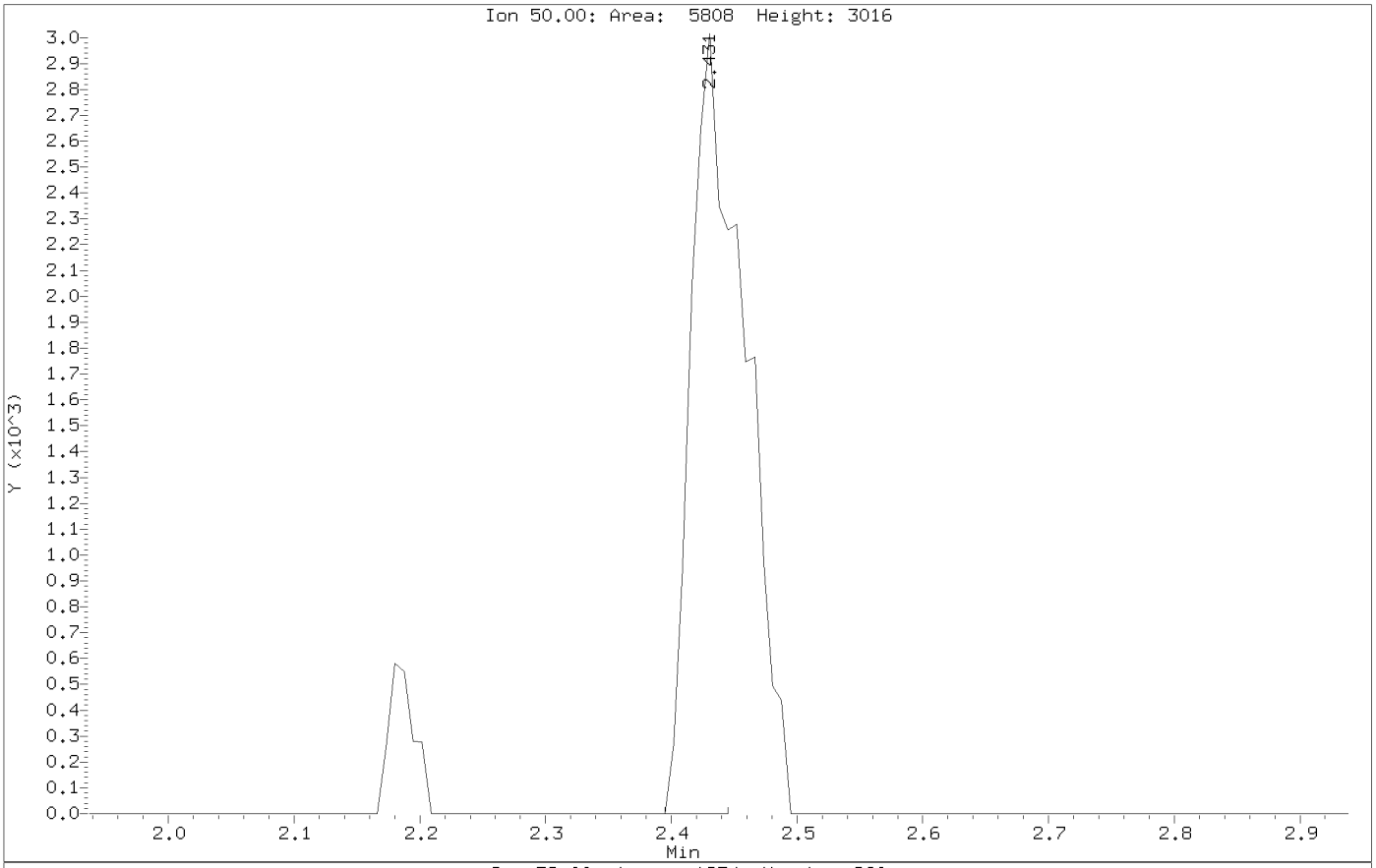

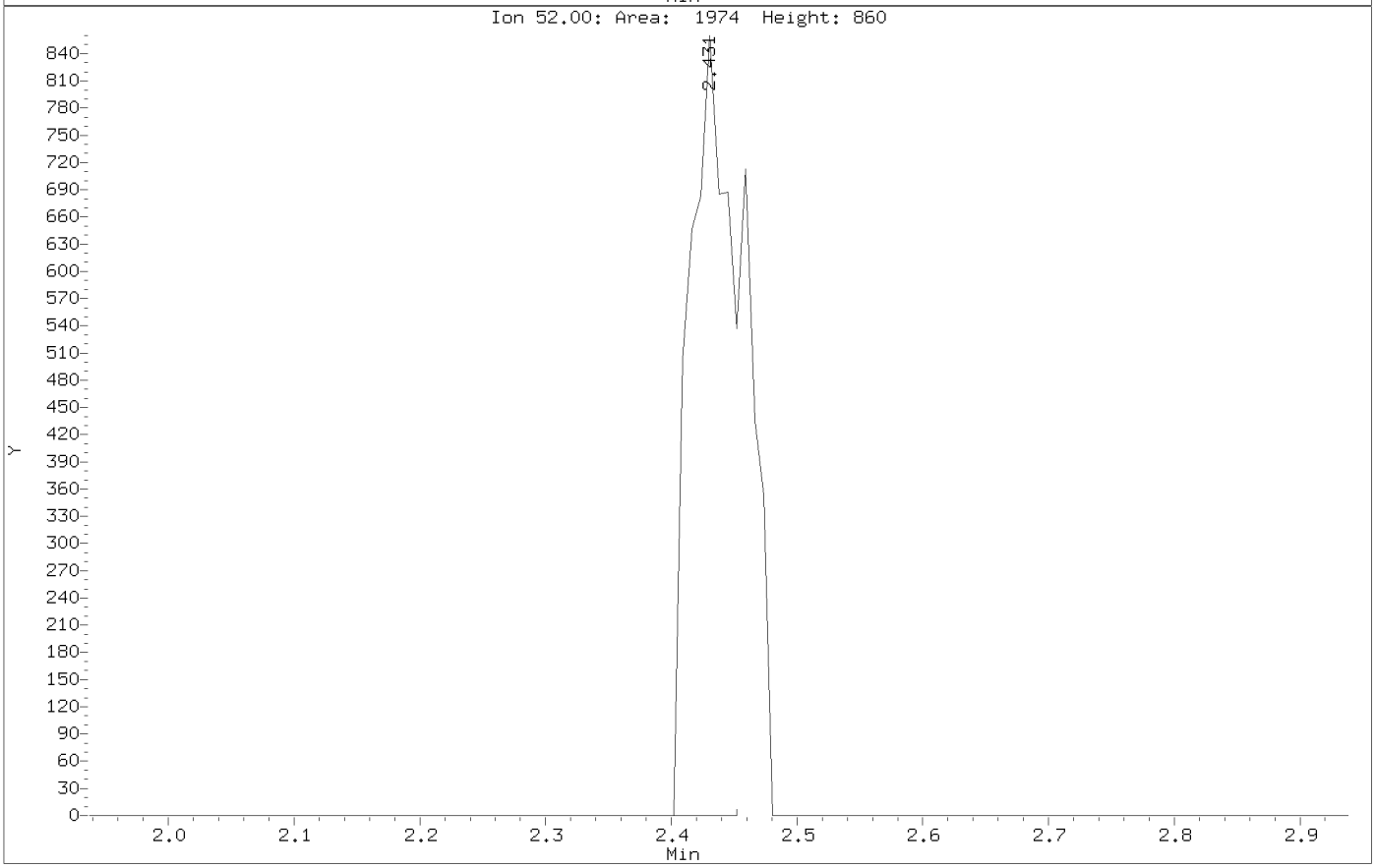

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Compound: Chloromethane
CAS Number: 74-87-3

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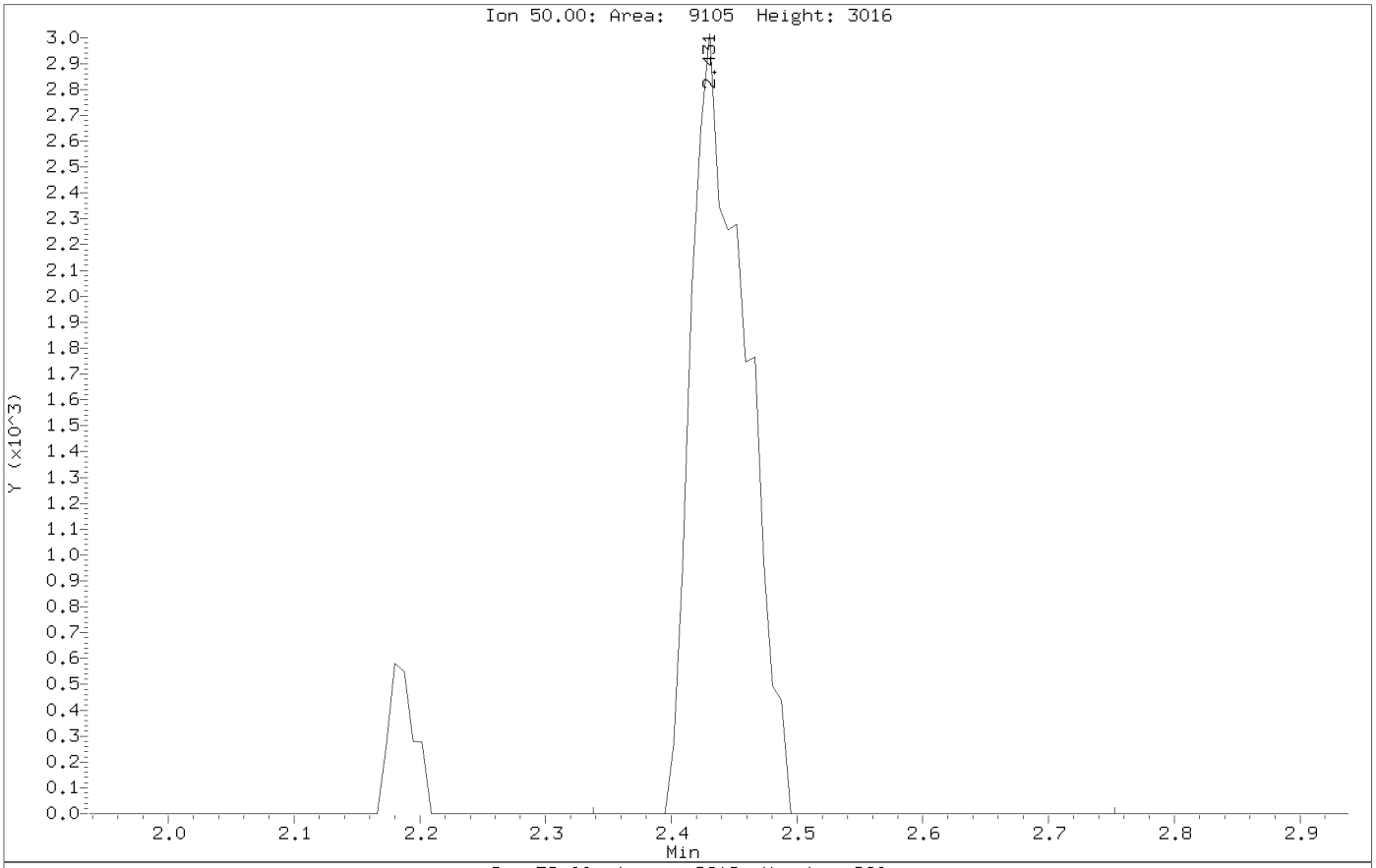

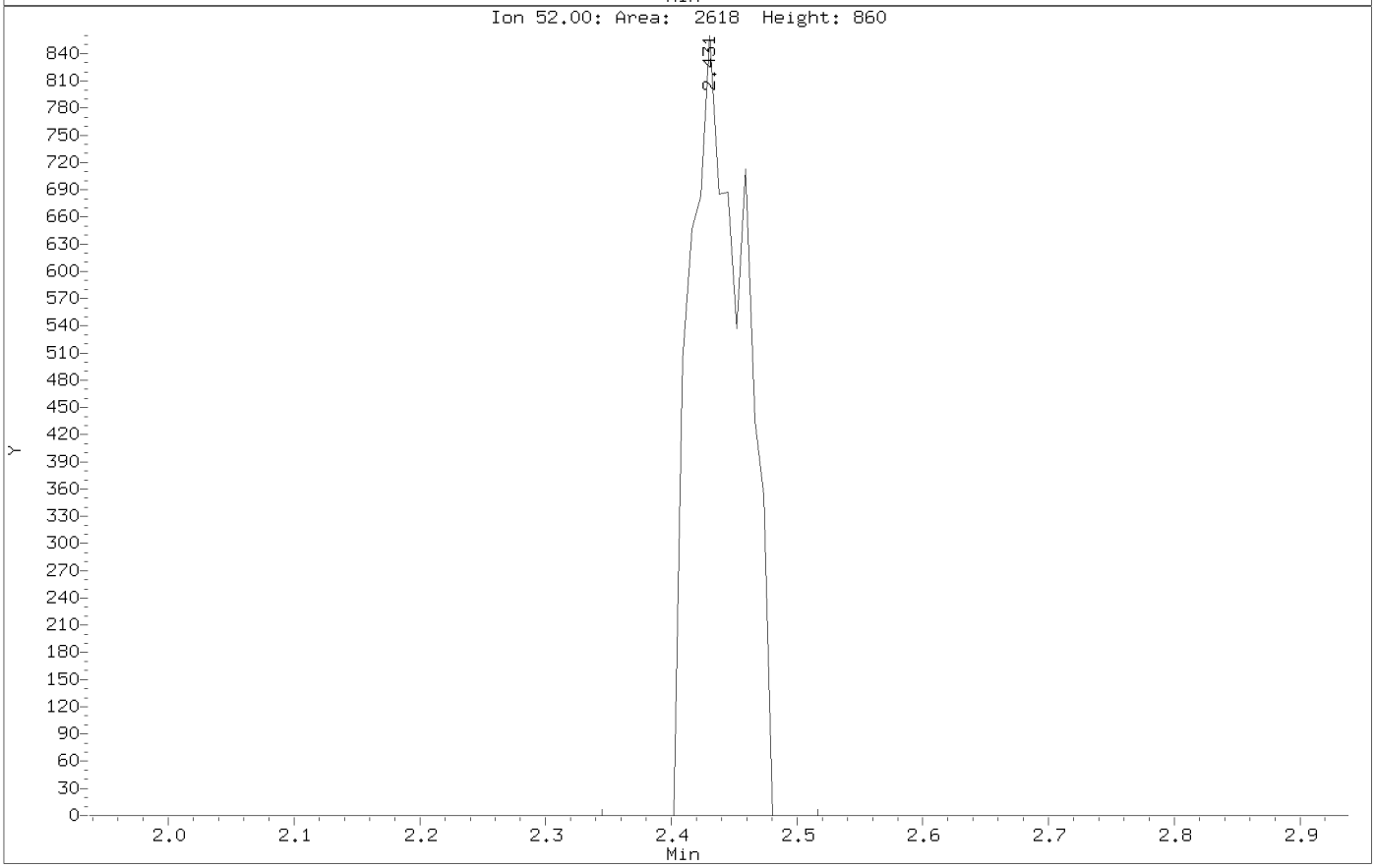

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Instrument: gcms-p.i
Client Sample ID:

Compound: Cyclohexane
CAS Number: 1735-17-7

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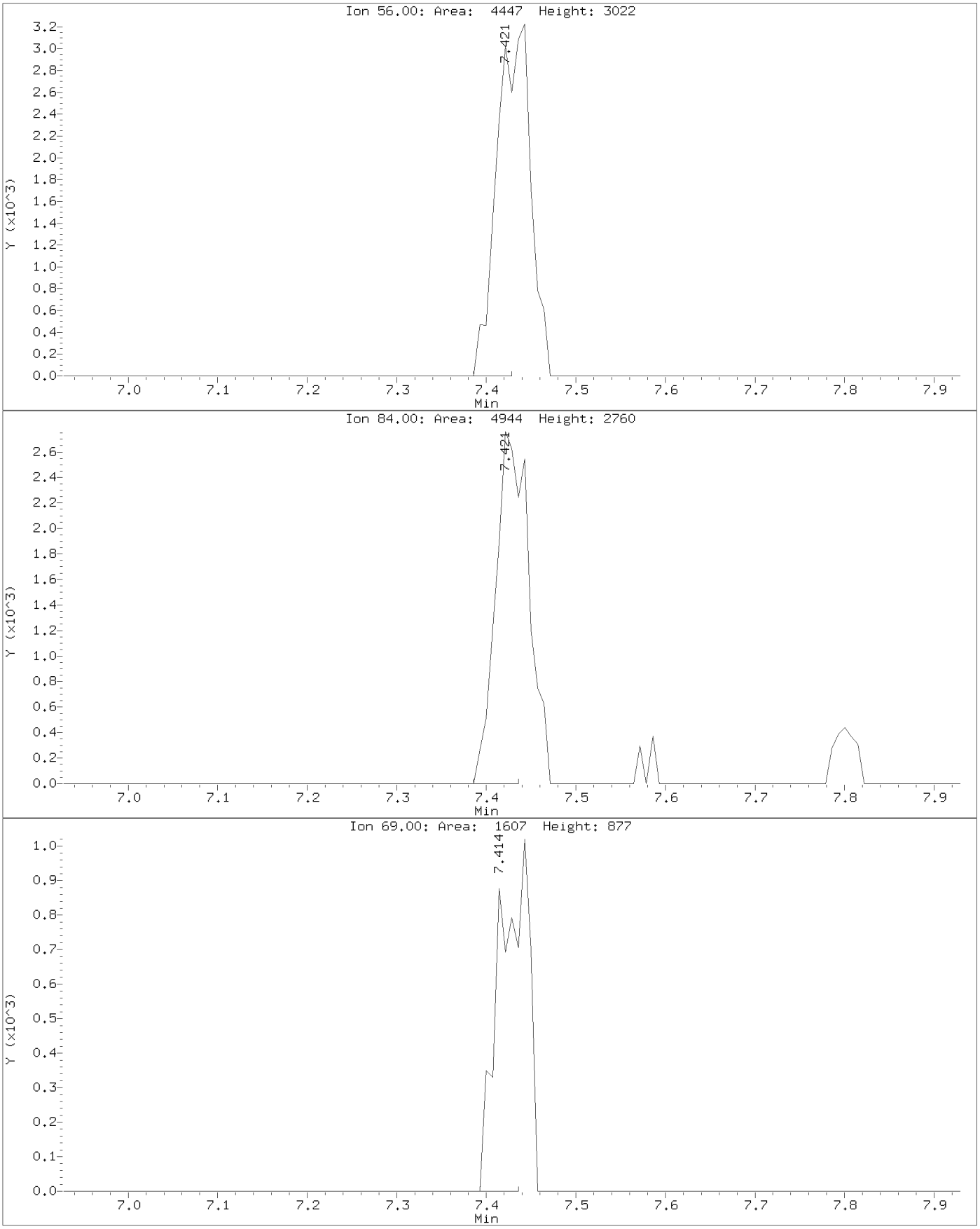

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Compound: Cyclohexane
CAS Number: 1735-17-7

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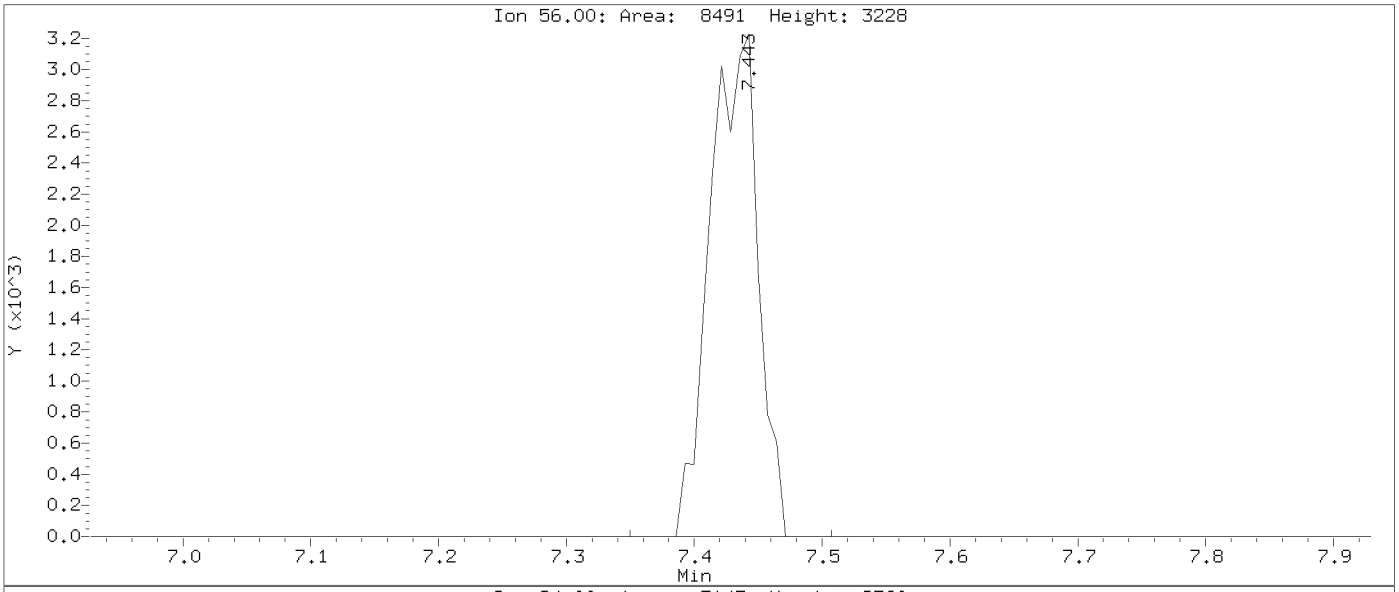

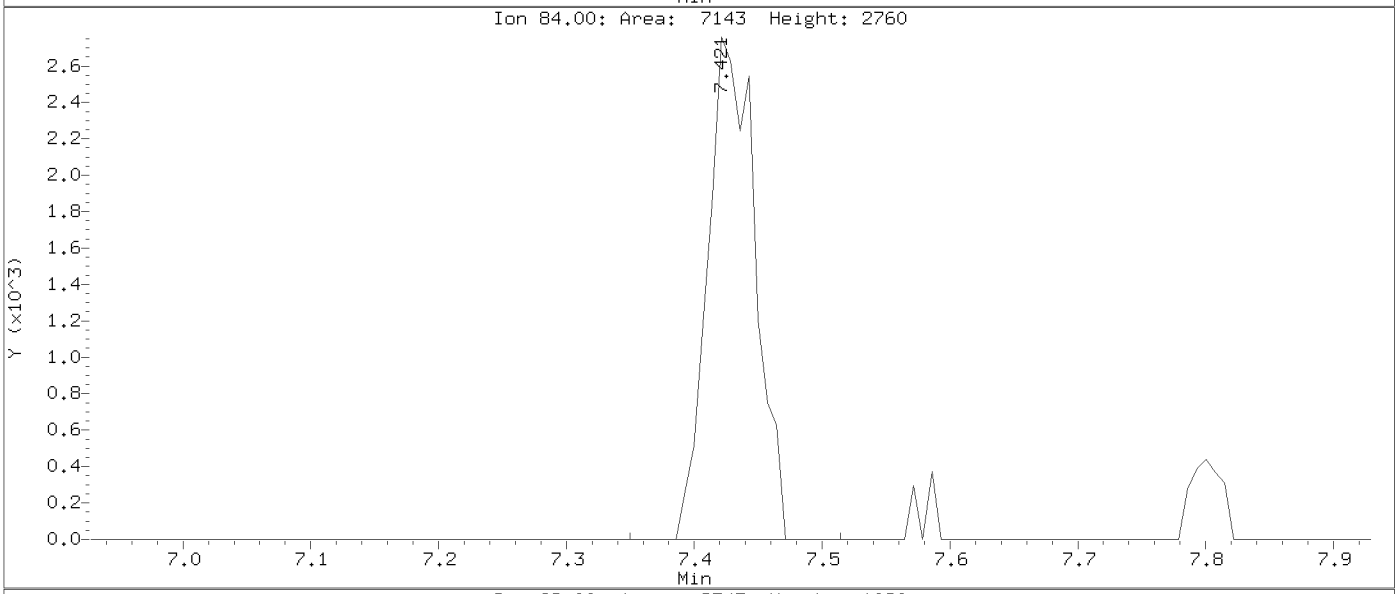

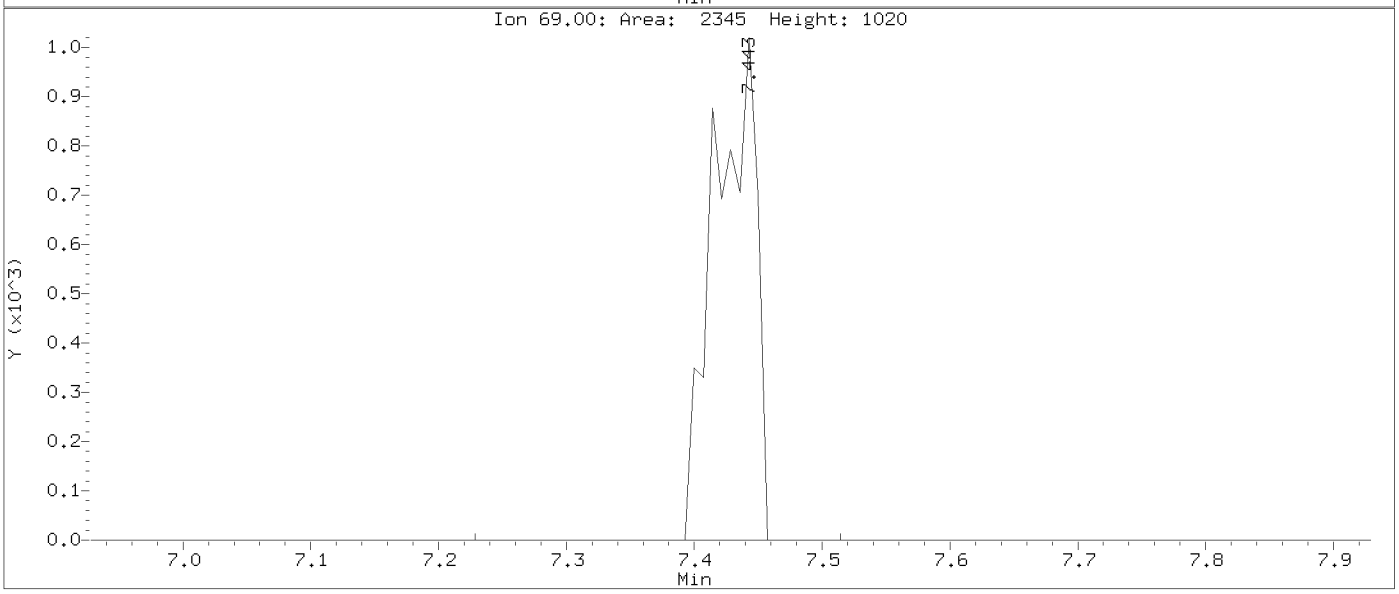

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Instrument: gcms-p.i
Client Sample ID:

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

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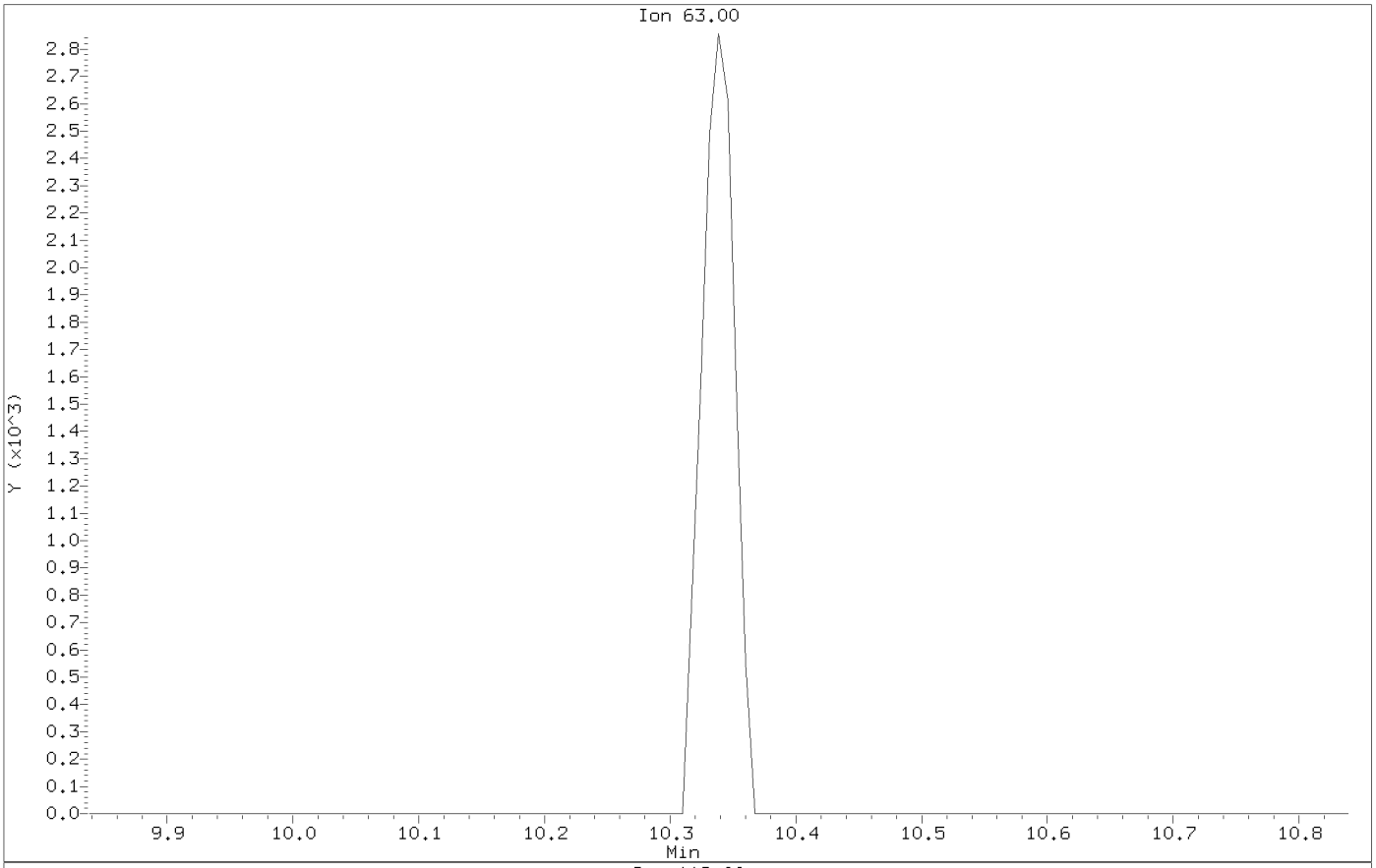

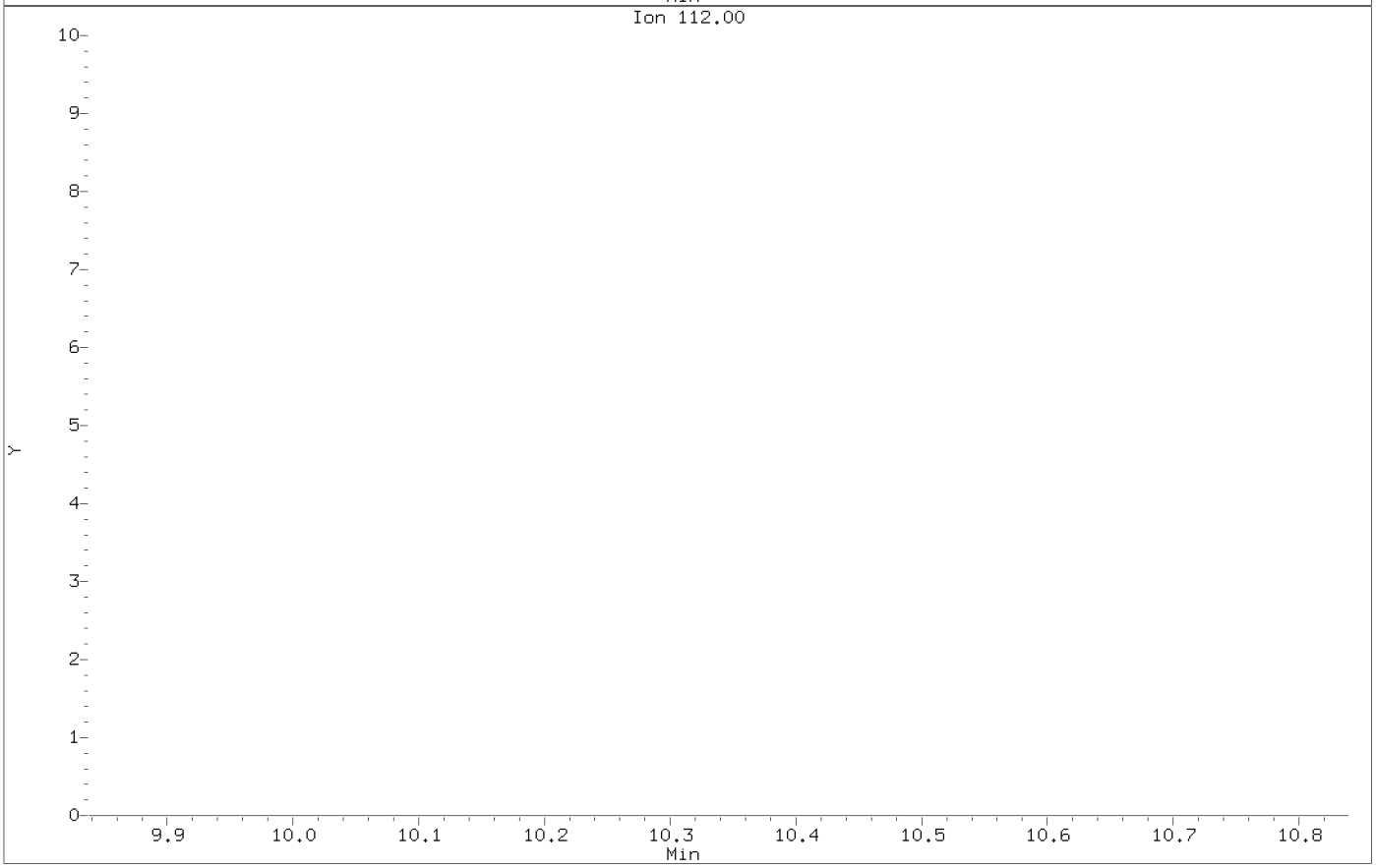

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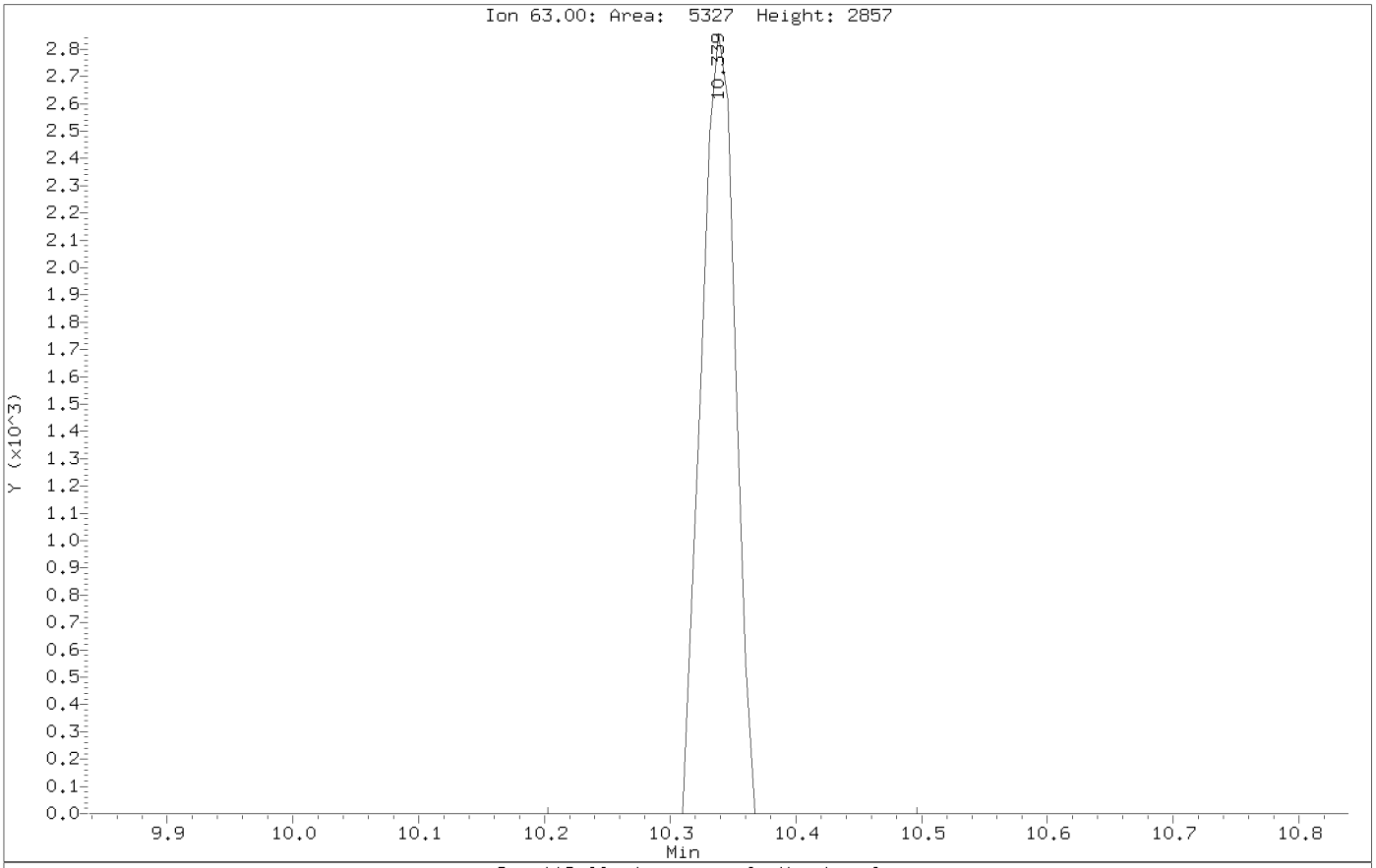
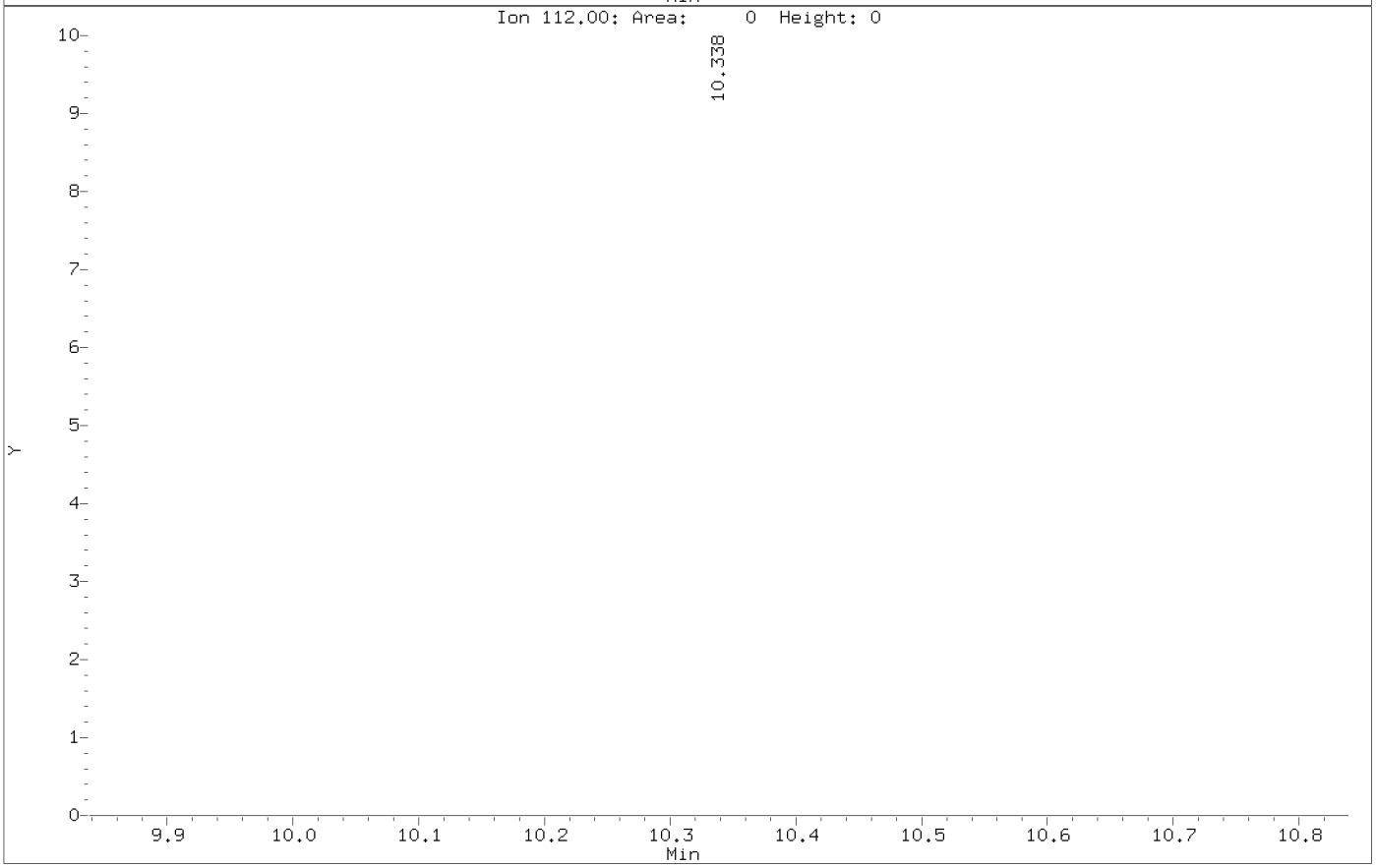
Instrument: gcms-p.i
Client Sample ID:

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

AFTER MANUAL INTEGRATION





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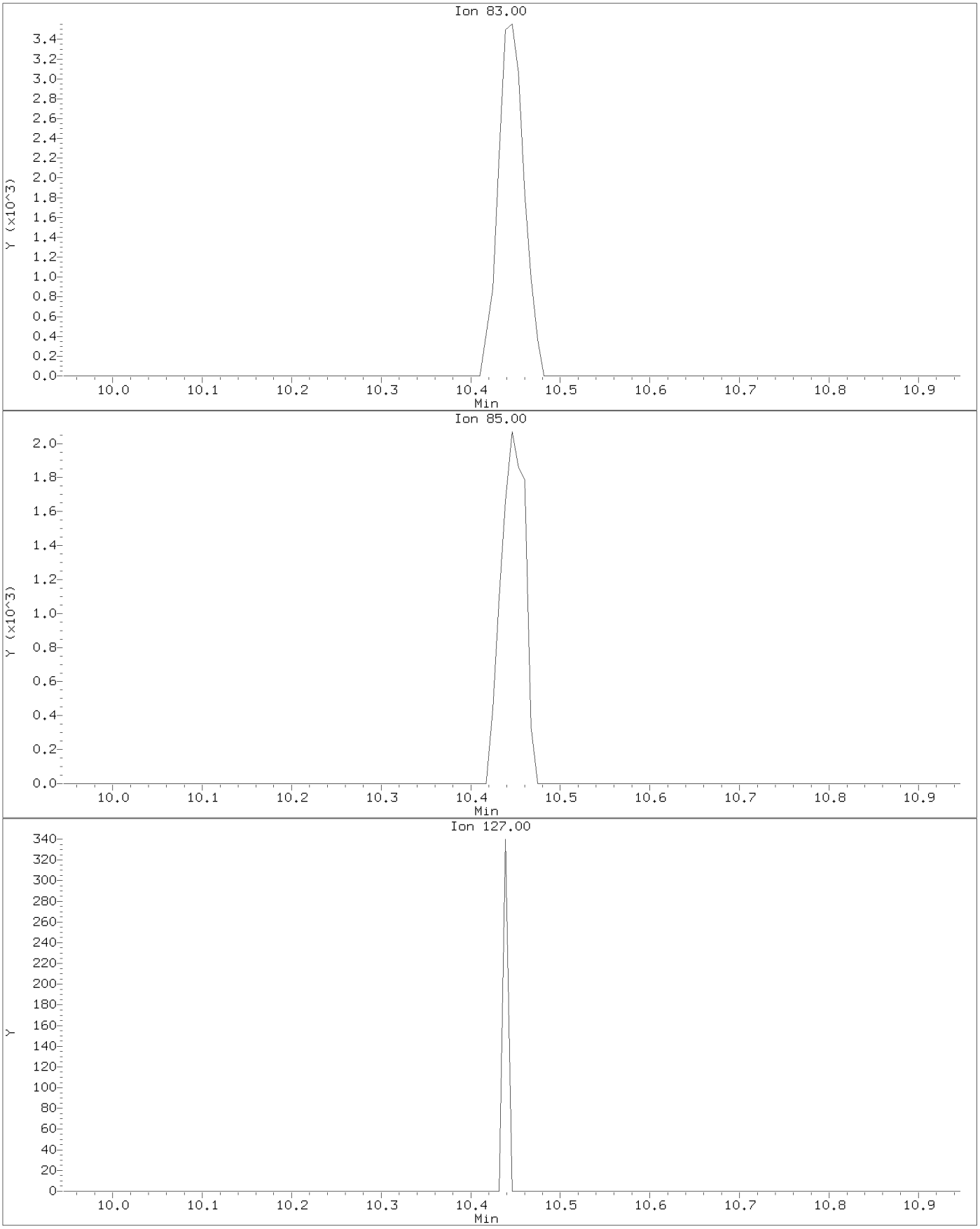
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromodichloromethane
CAS Number: 75-27-4

BEFORE MANUAL INTEGRATION



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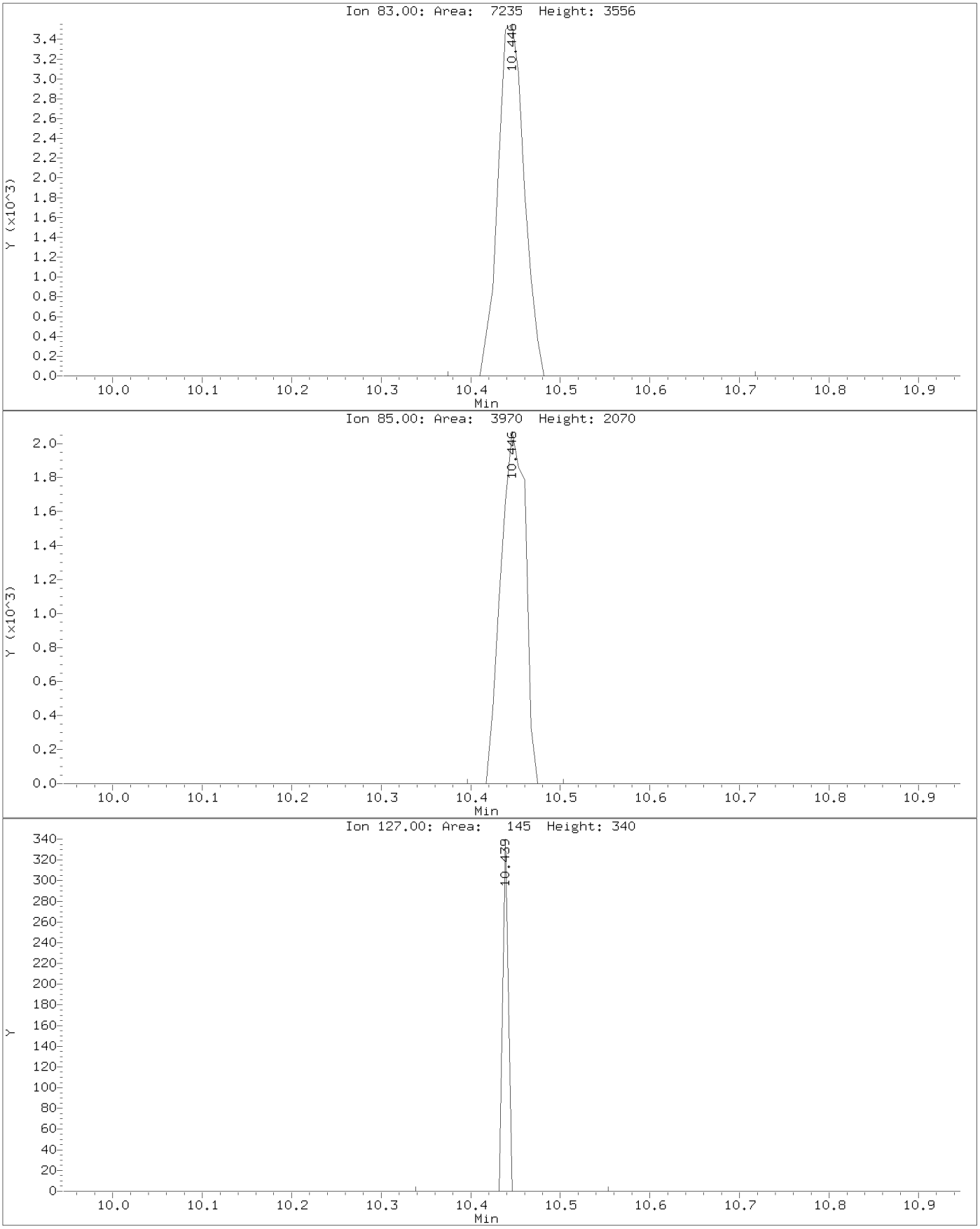
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromodichloromethane
CAS Number: 75-27-4

AFTER MANUAL INTEGRATION



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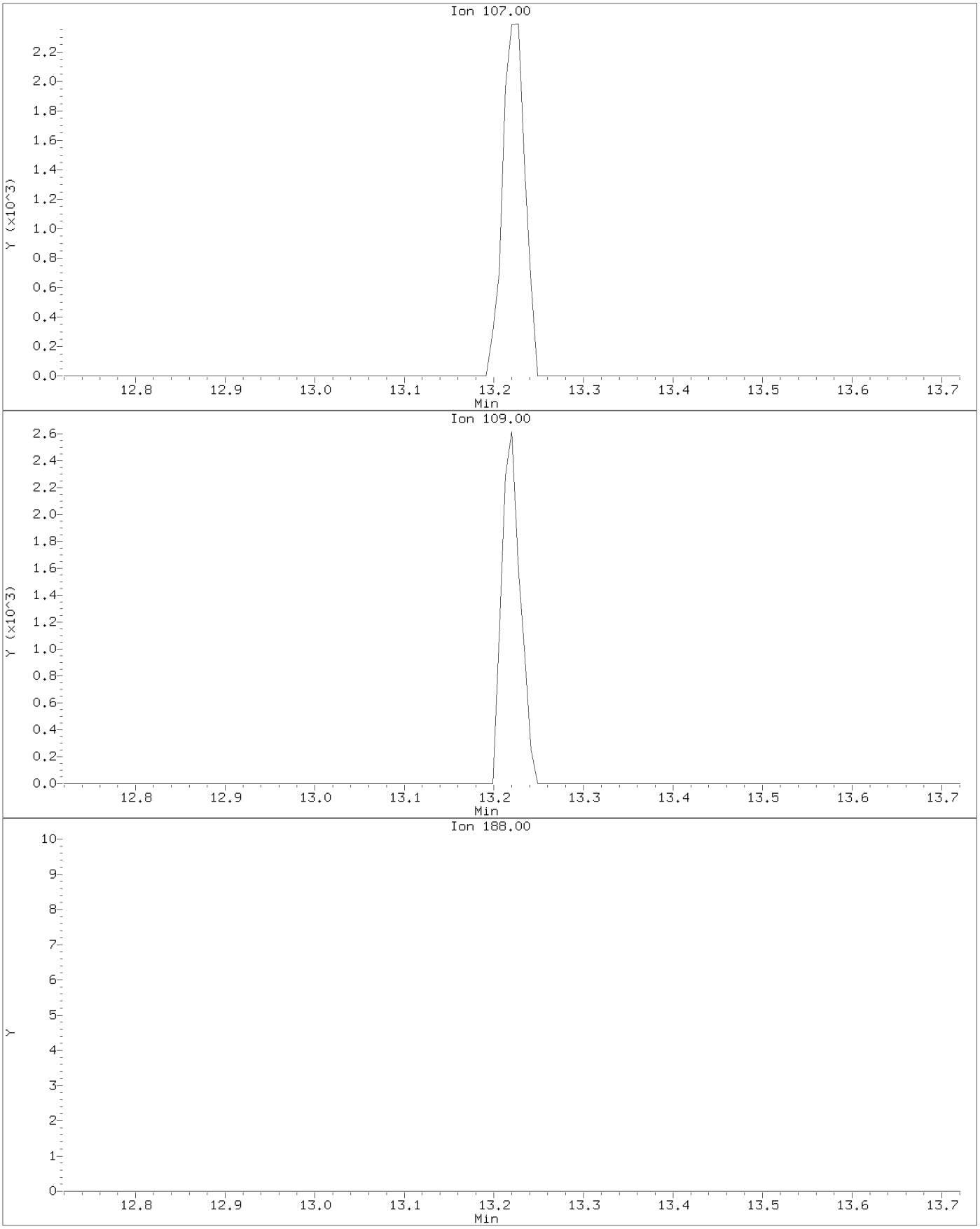
Instrument: gcms-p.i
Client Sample ID:

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

BEFORE MANUAL INTEGRATION



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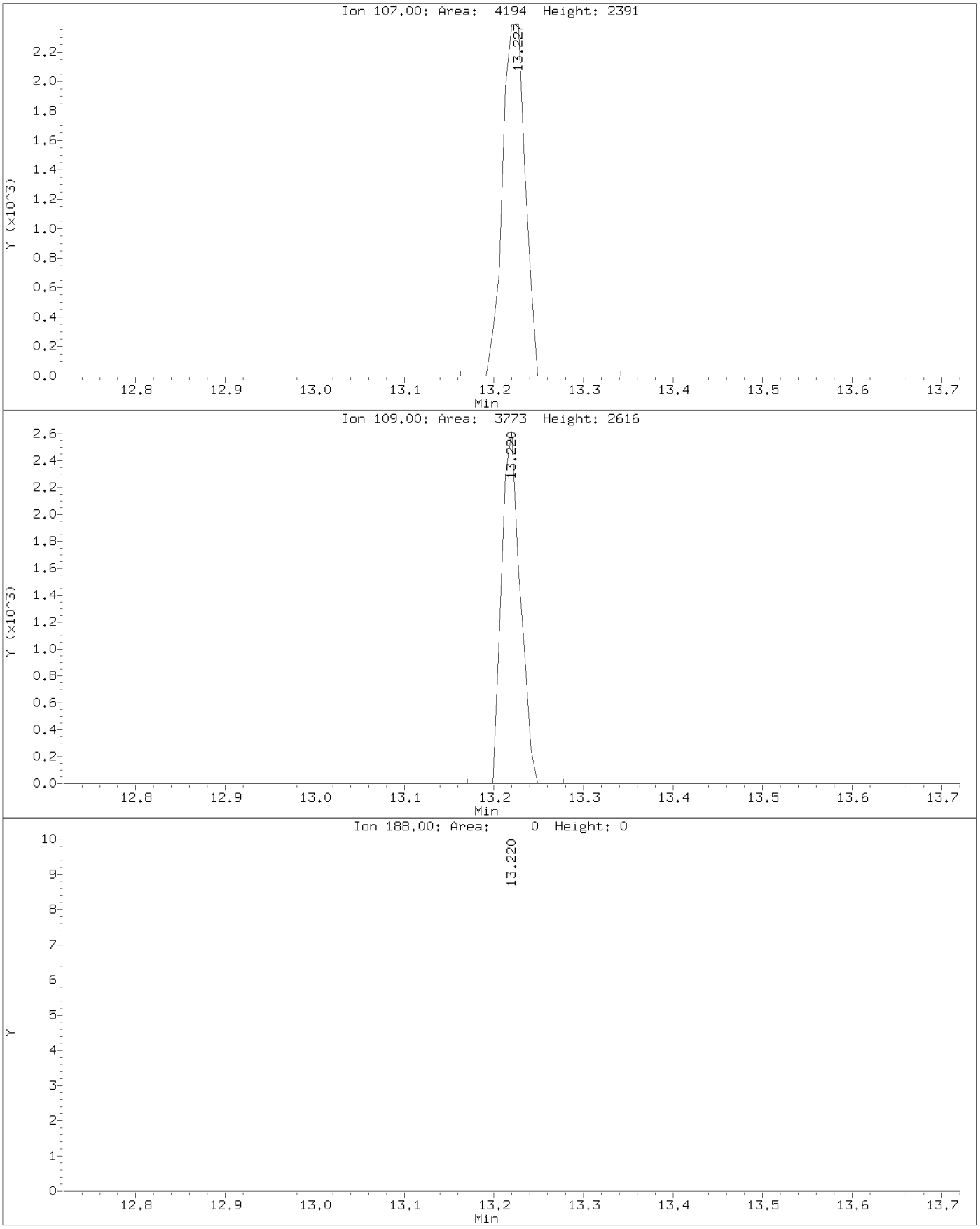
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

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

AFTER MANUAL INTEGRATION



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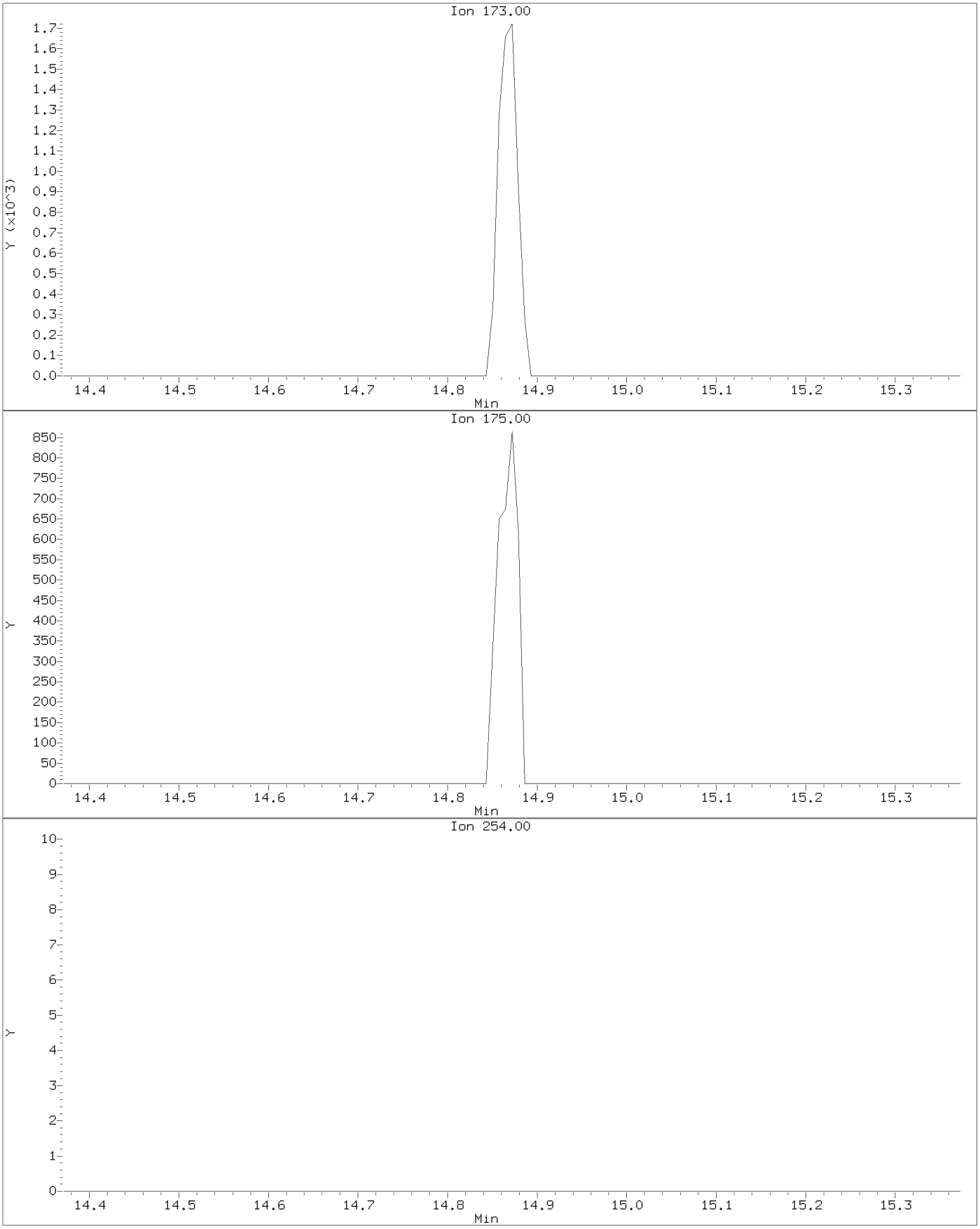
Injection Date: 22-JUN-2015 11:21
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

BEFORE MANUAL INTEGRATION



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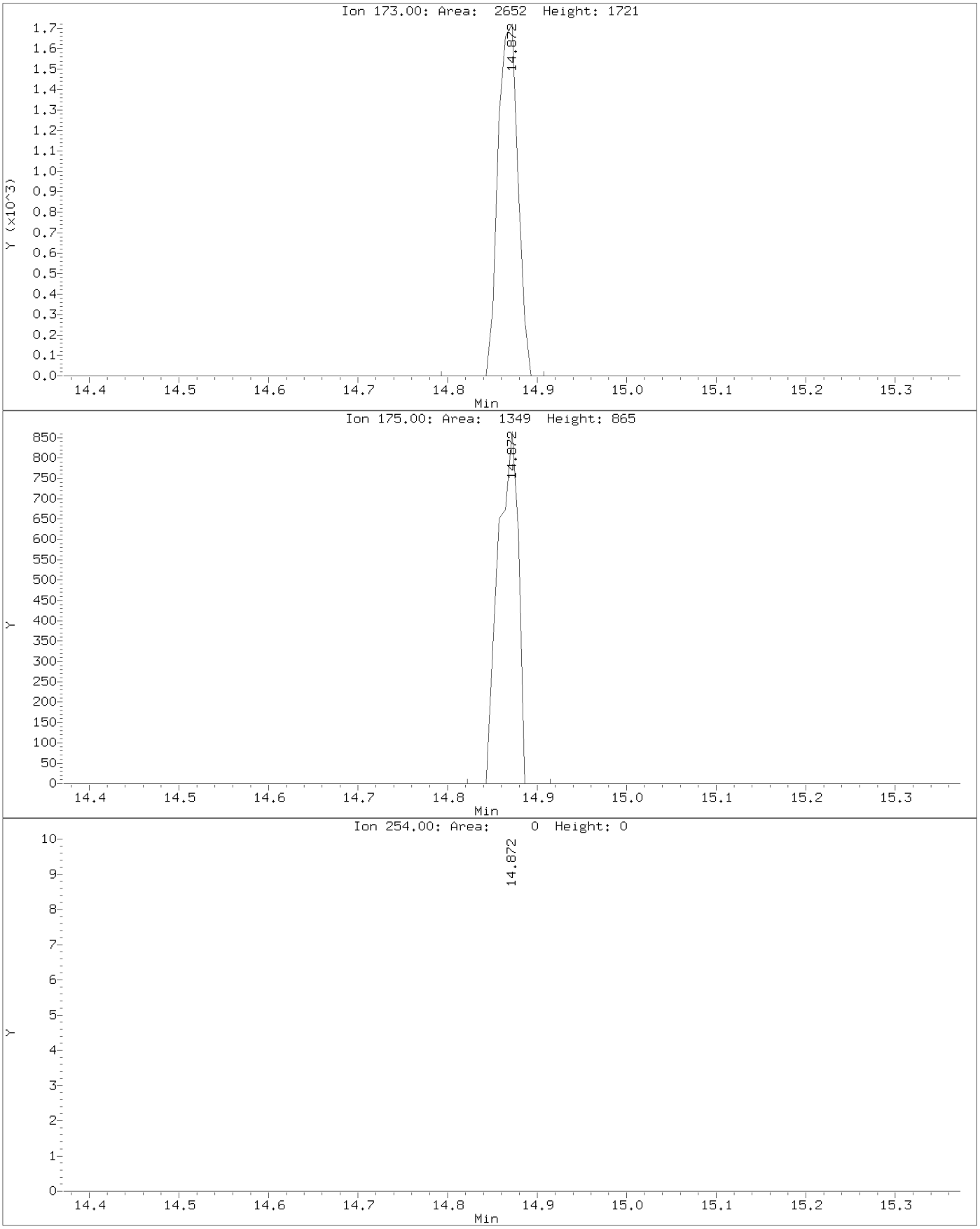
Instrument: gcms-p.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

AFTER MANUAL INTEGRATION



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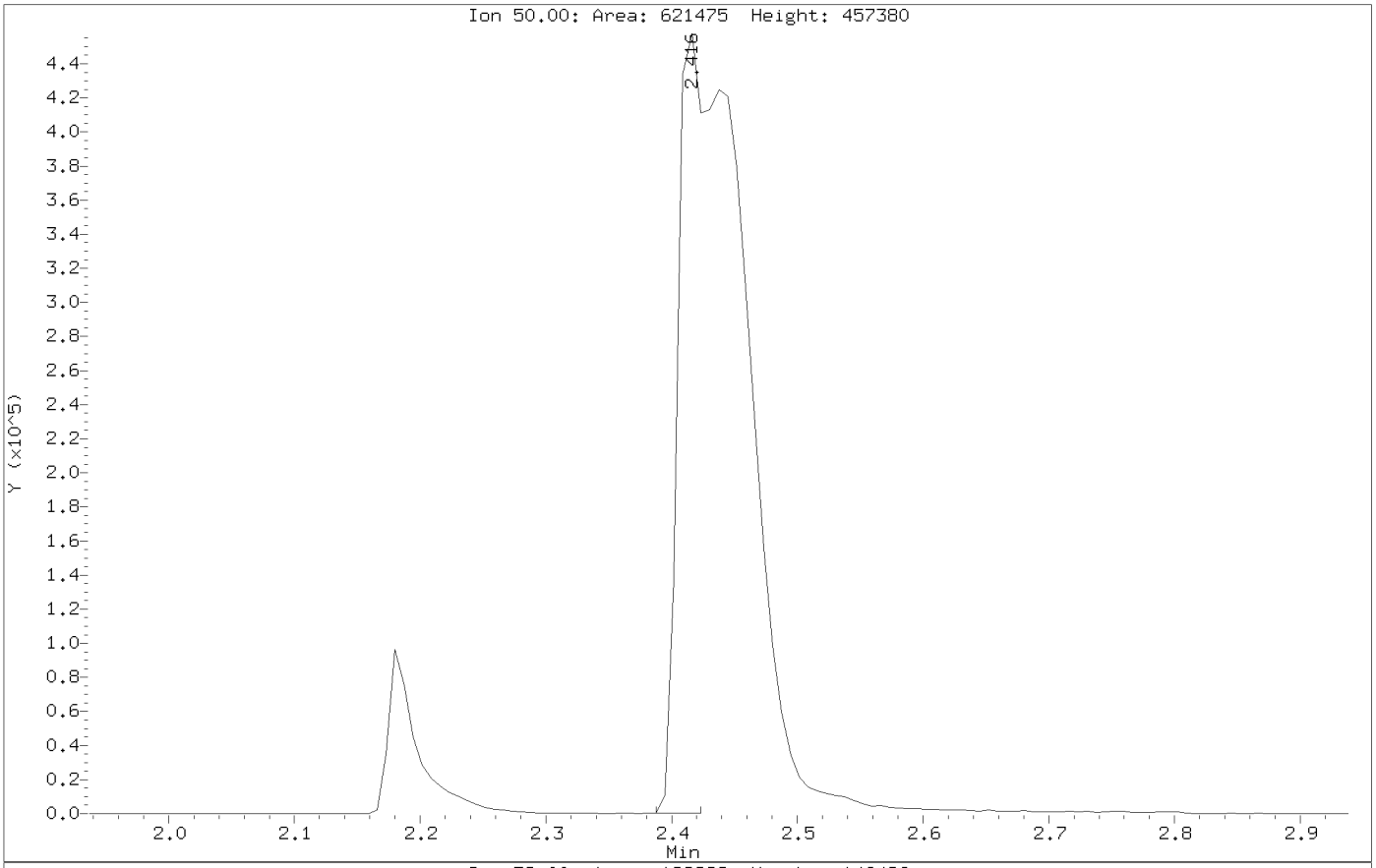
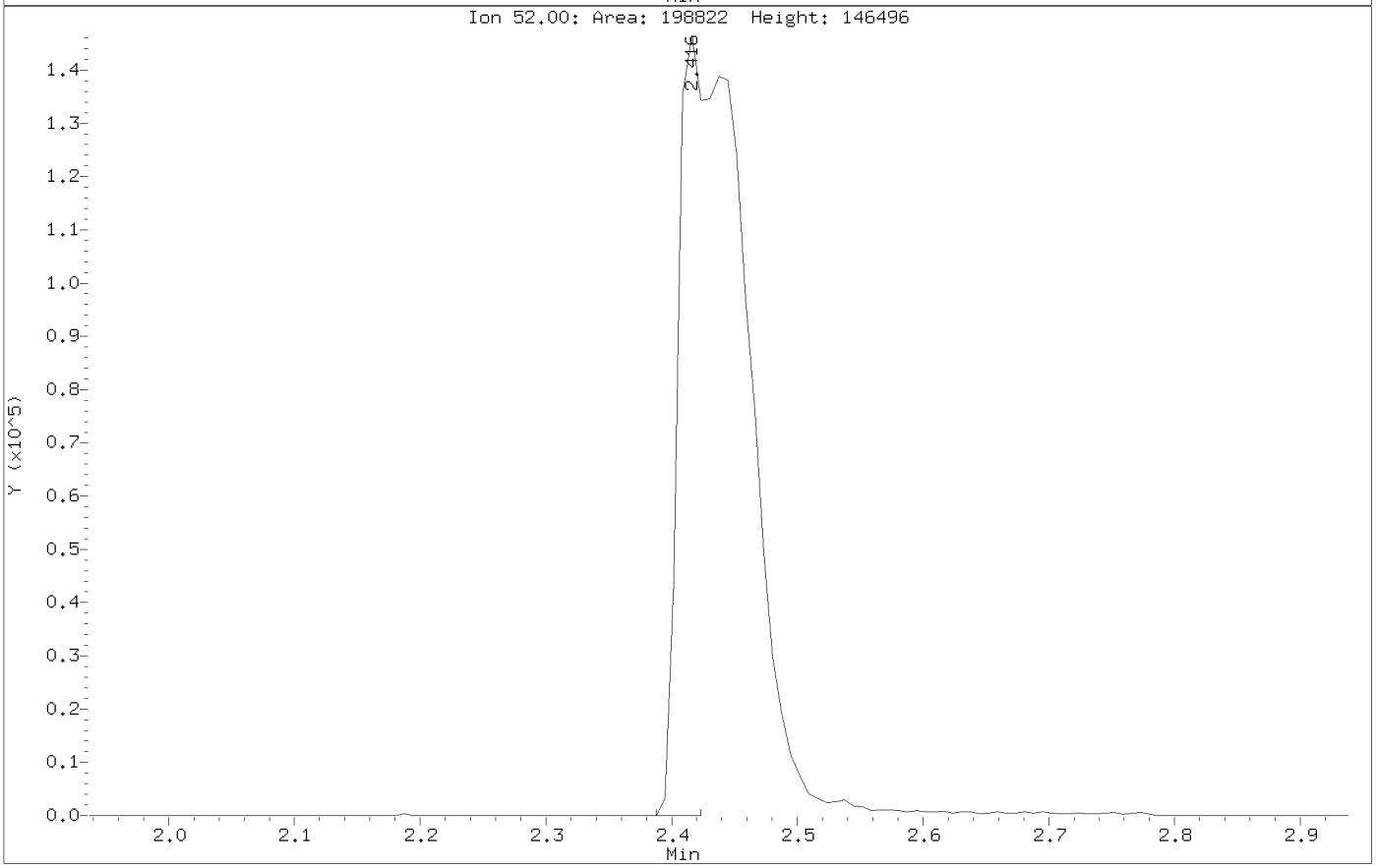
Injection Date: 22-JUN-2015 11:47
Instrument: gcms-p.i
Client Sample ID:

Compound: Chloromethane
CAS Number: 74-87-3

BEFORE MANUAL INTEGRATION





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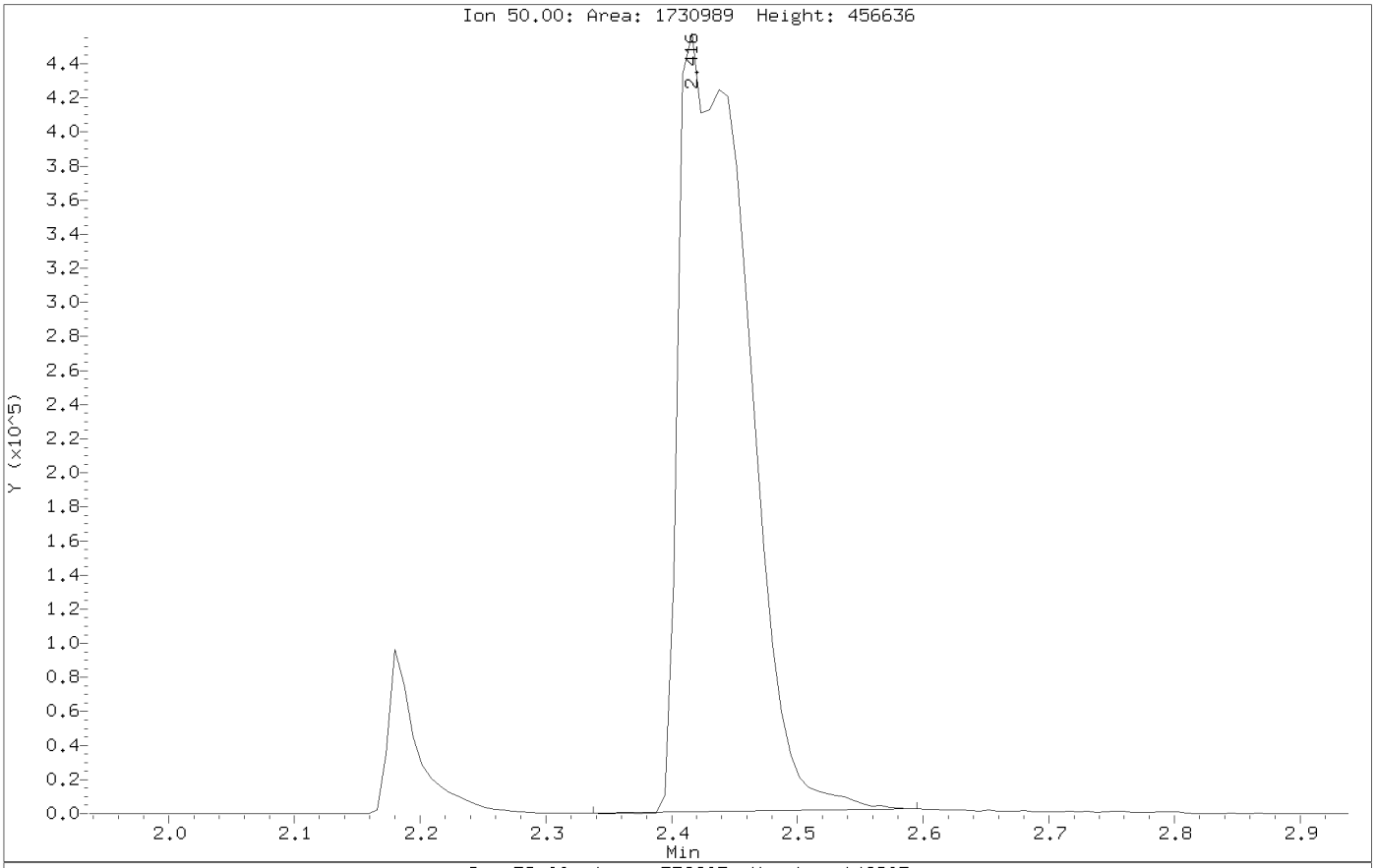
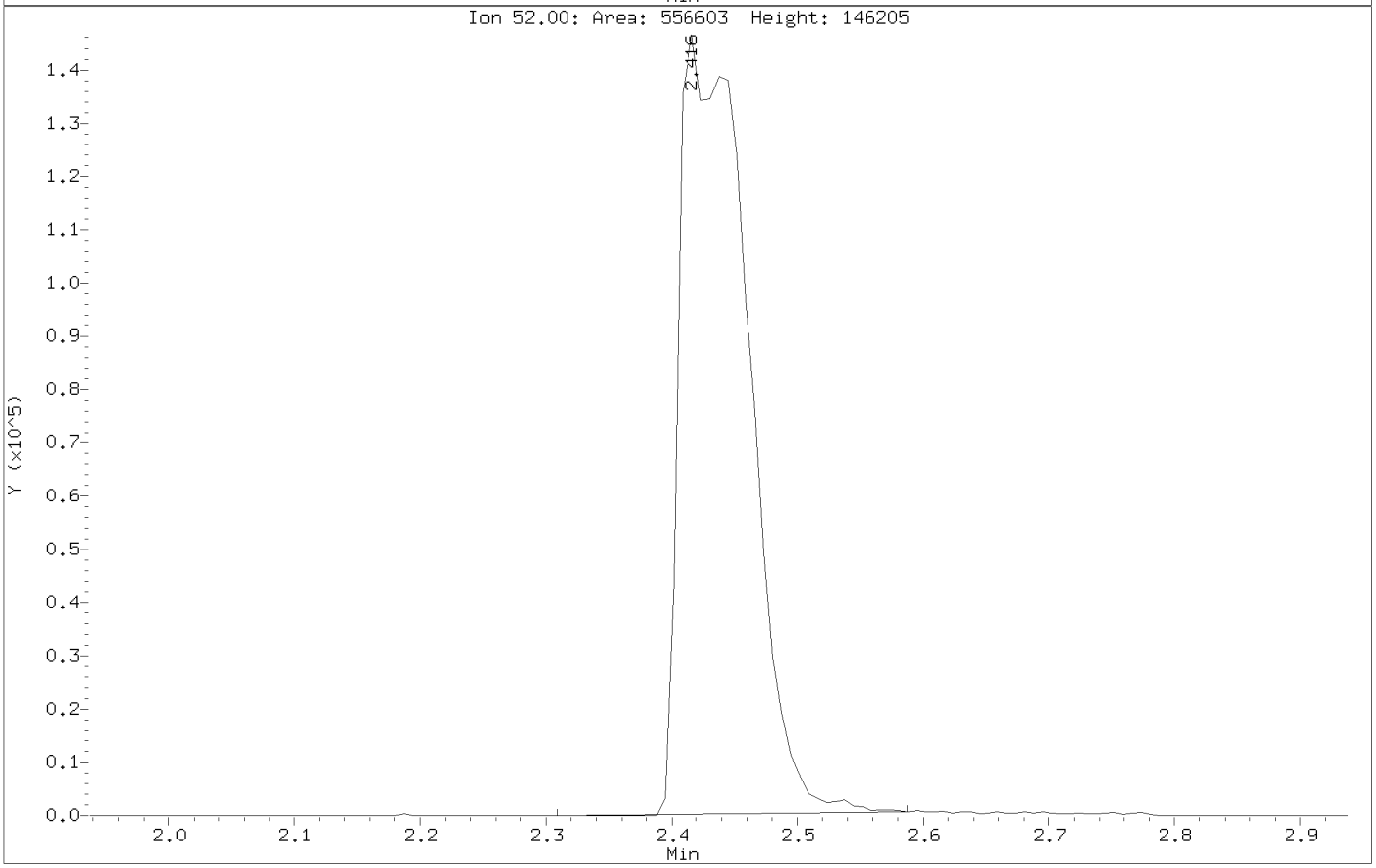
Client Sample ID:

Compound: Chloromethane
CAS Number: 74-87-3

AFTER MANUAL INTEGRATION





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Instrument: gcms-p.i
Client Sample ID:

Compound: Chloroethane
CAS Number: 75-00-3

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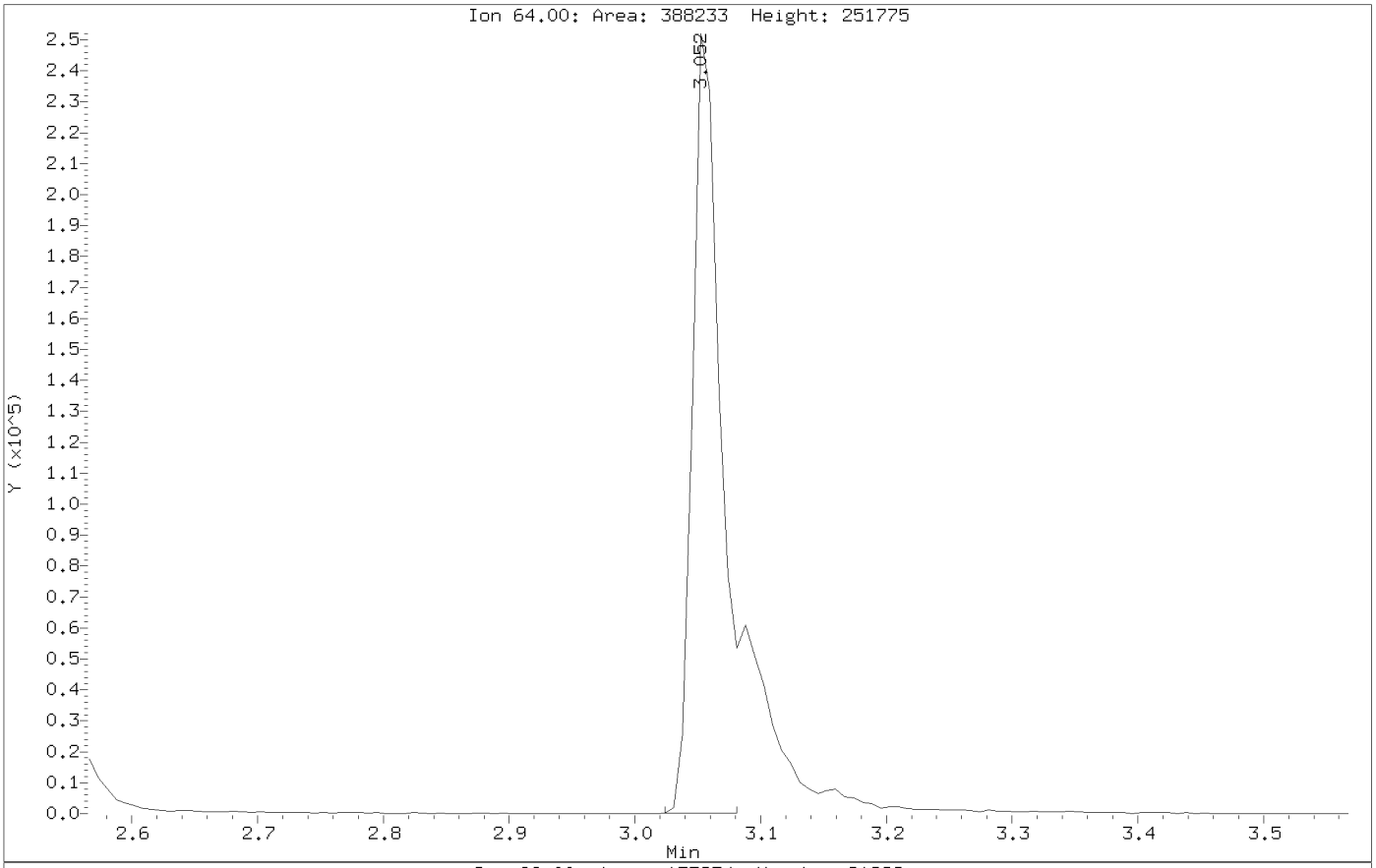

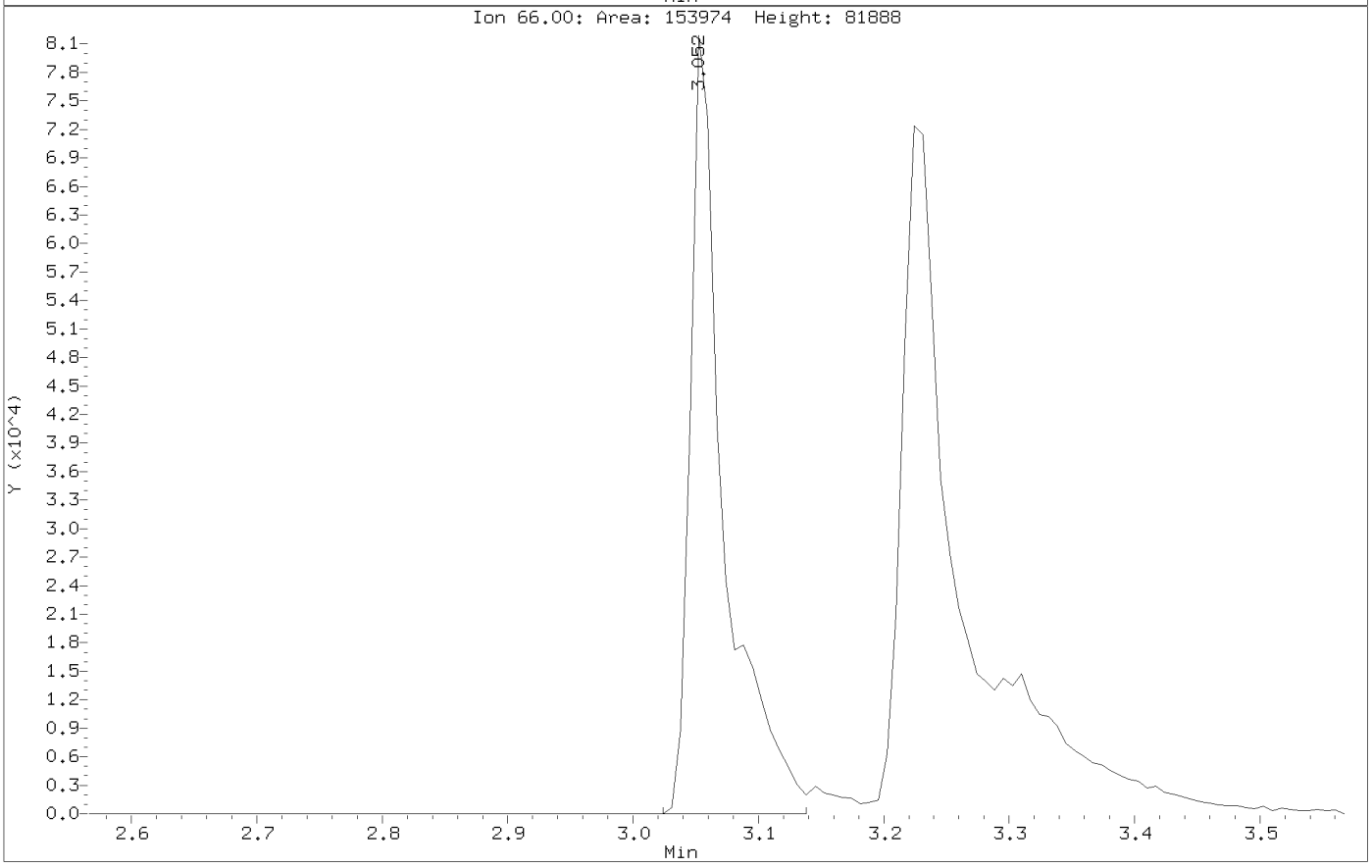

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Client Sample ID:

Compound: Chloroethane
CAS Number: 75-00-3

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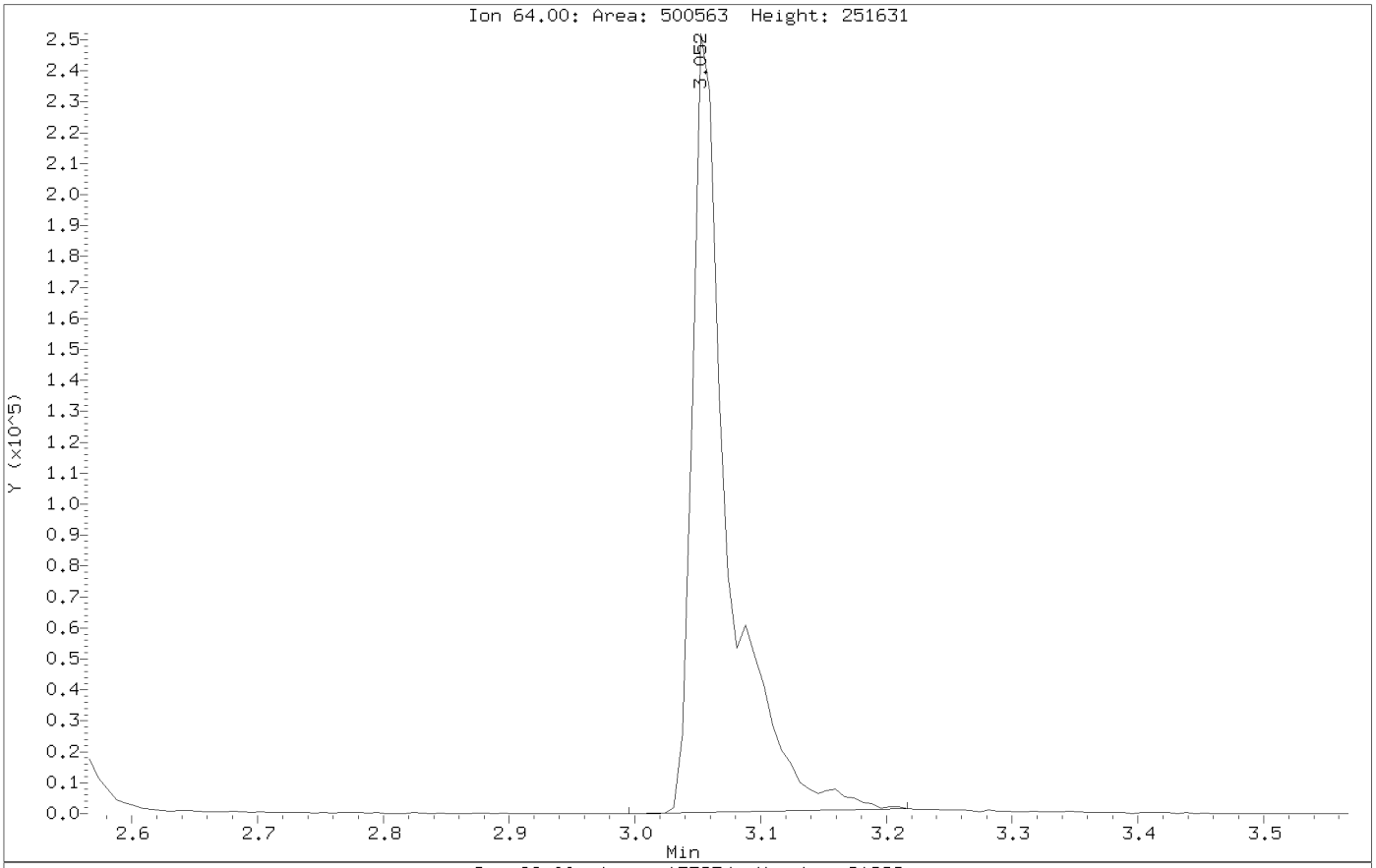

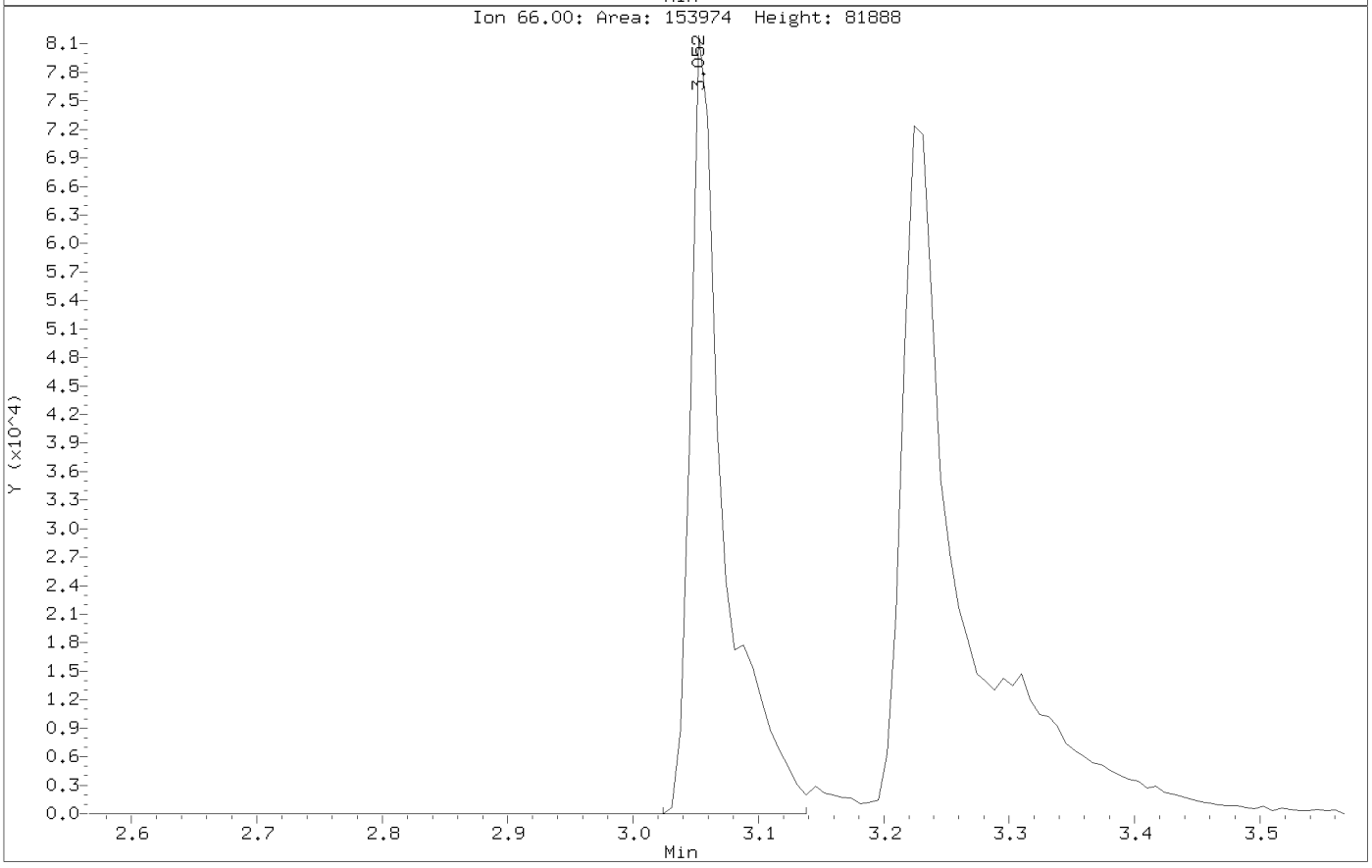

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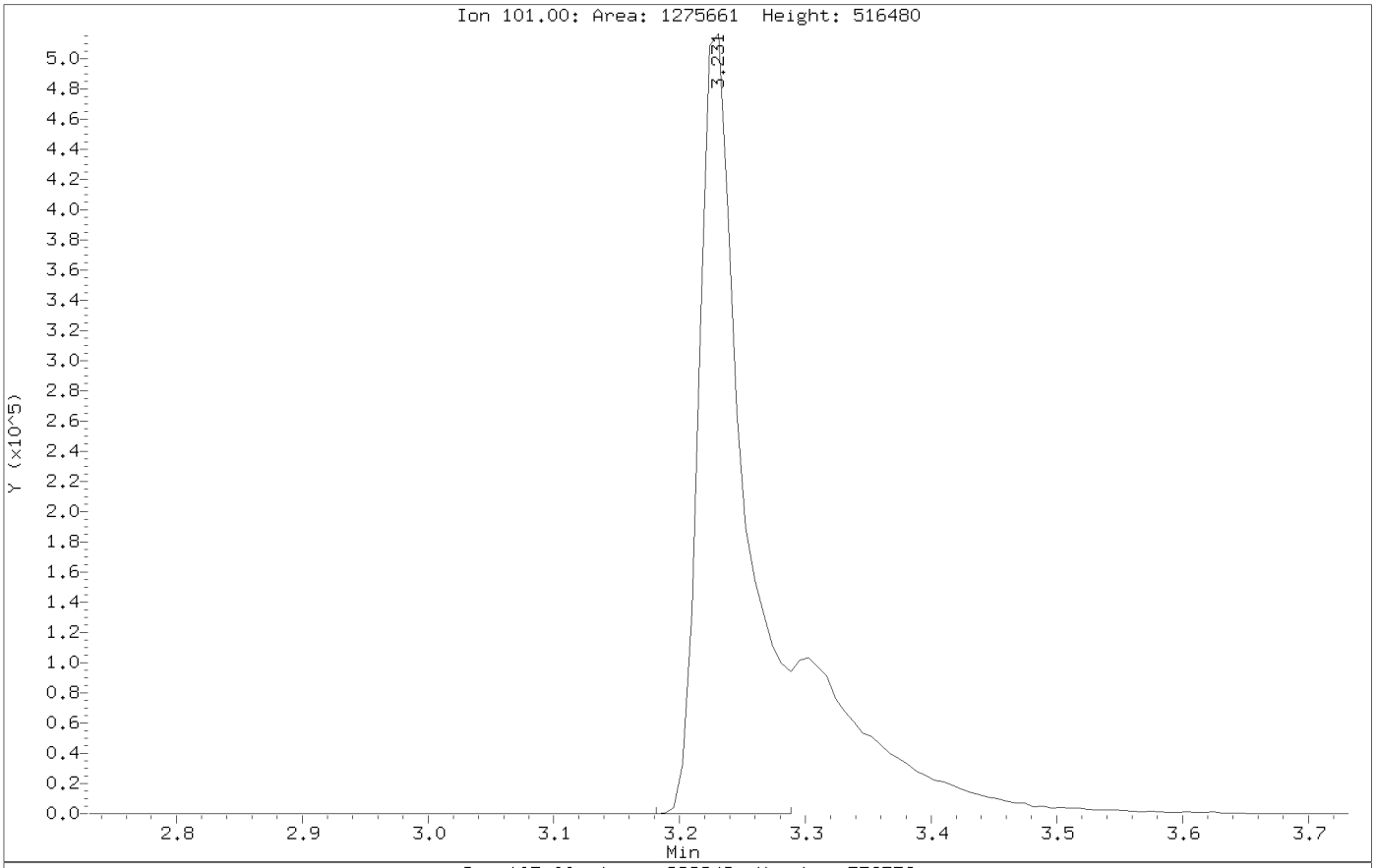
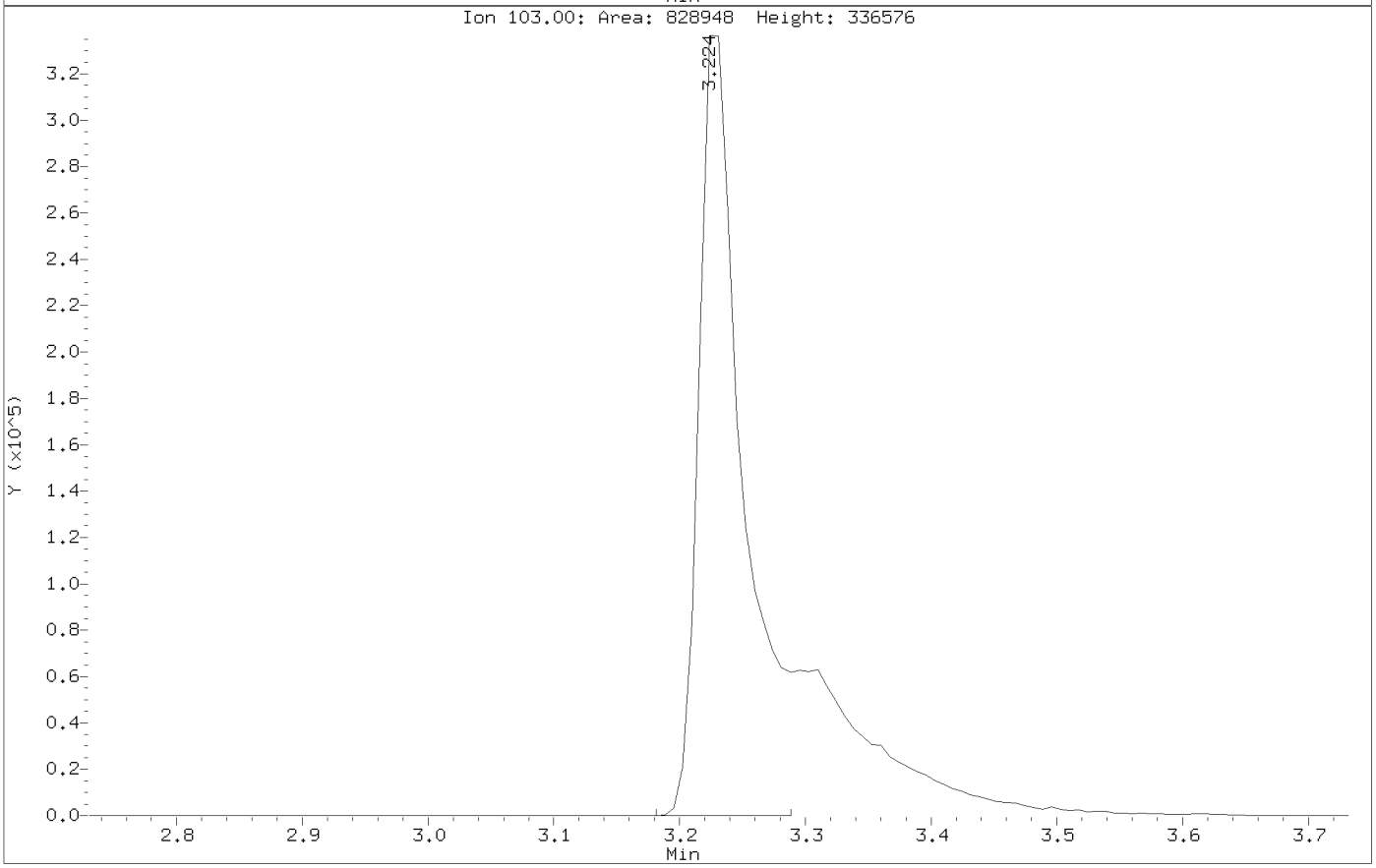
Injection Date: 22-JUN-2015 11:47
Instrument: gcms-p.i
Client Sample ID:

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

BEFORE MANUAL INTEGRATION





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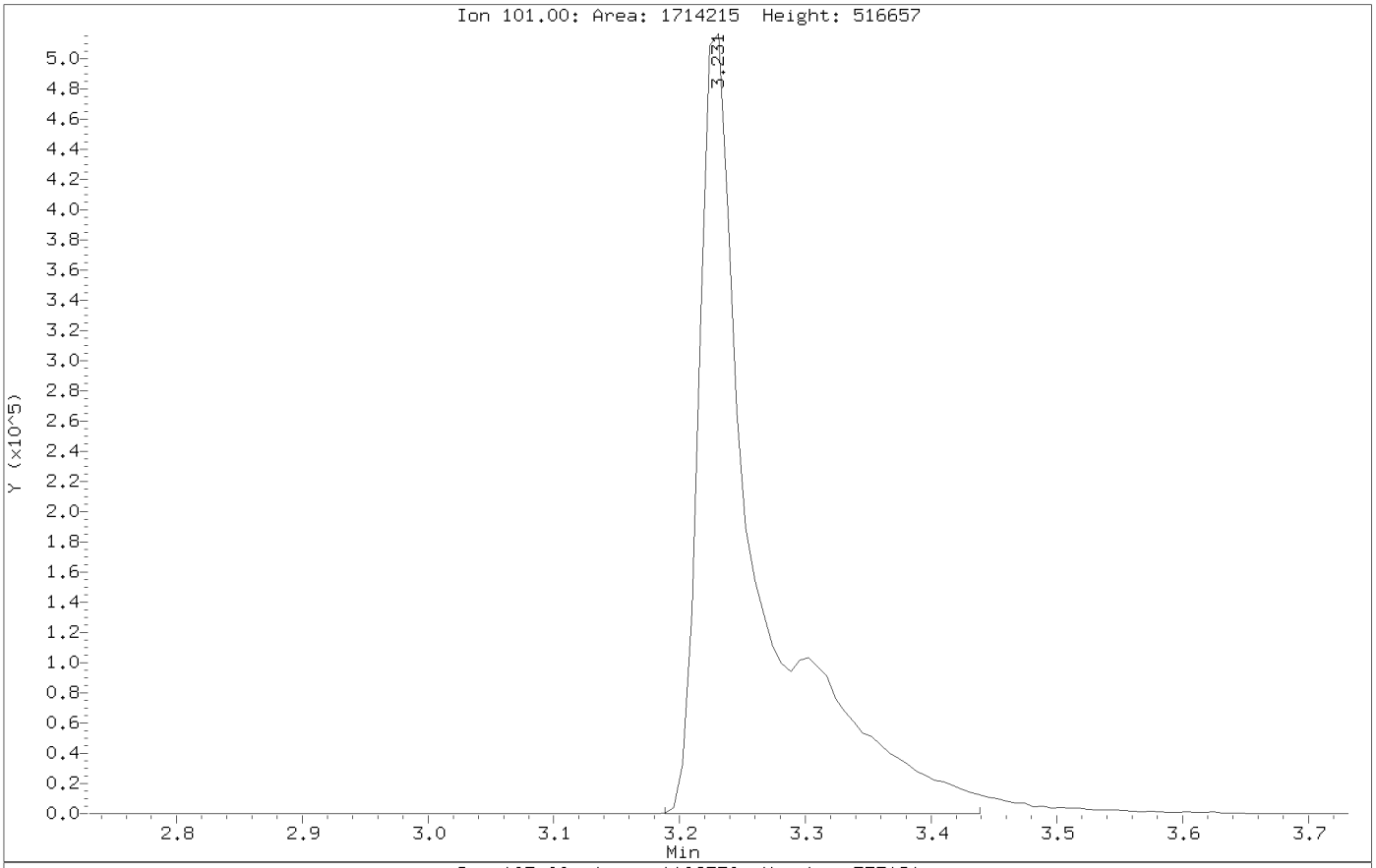
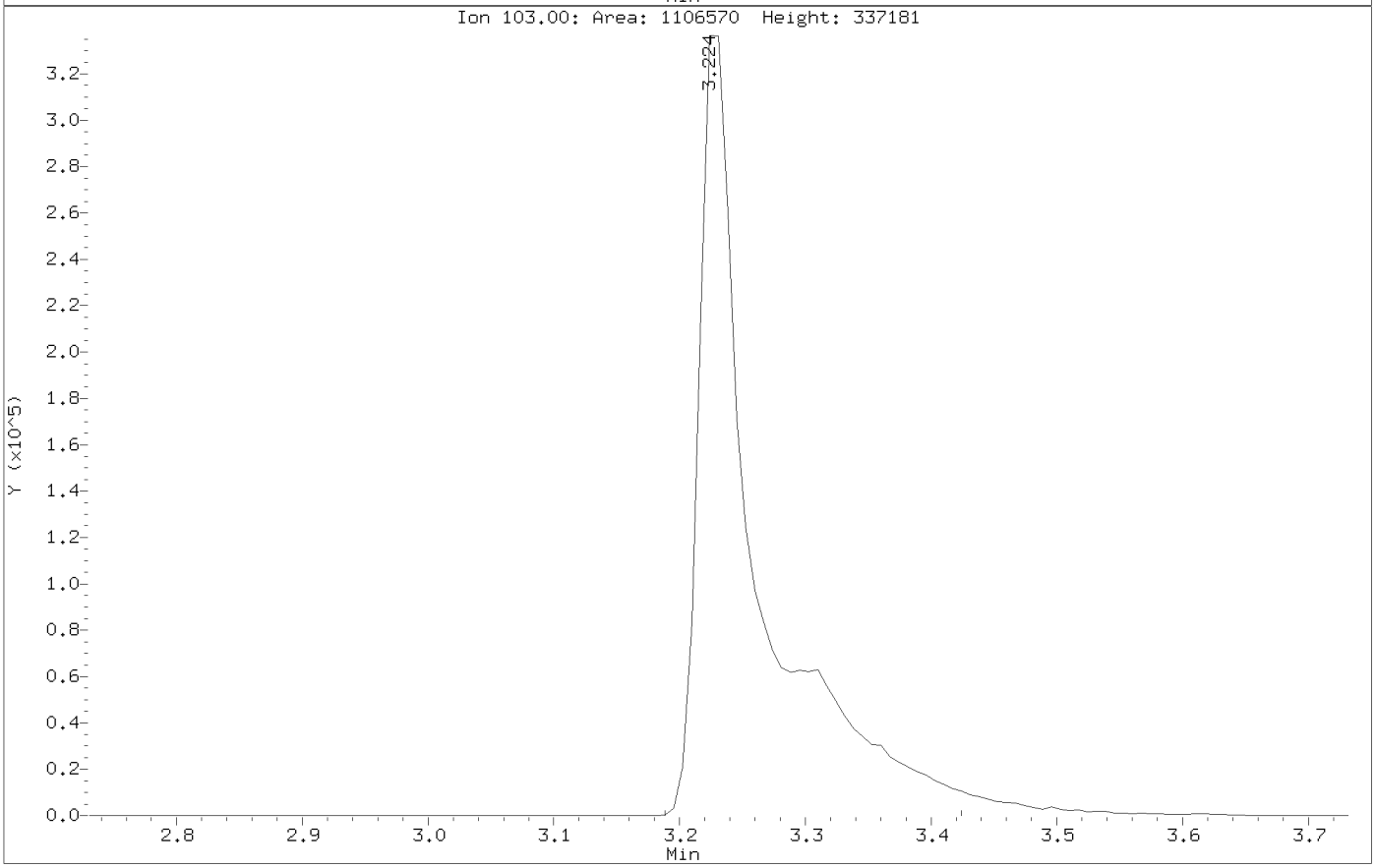
Instrument: gcms-p.i
Client Sample ID:

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

AFTER MANUAL INTEGRATION





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

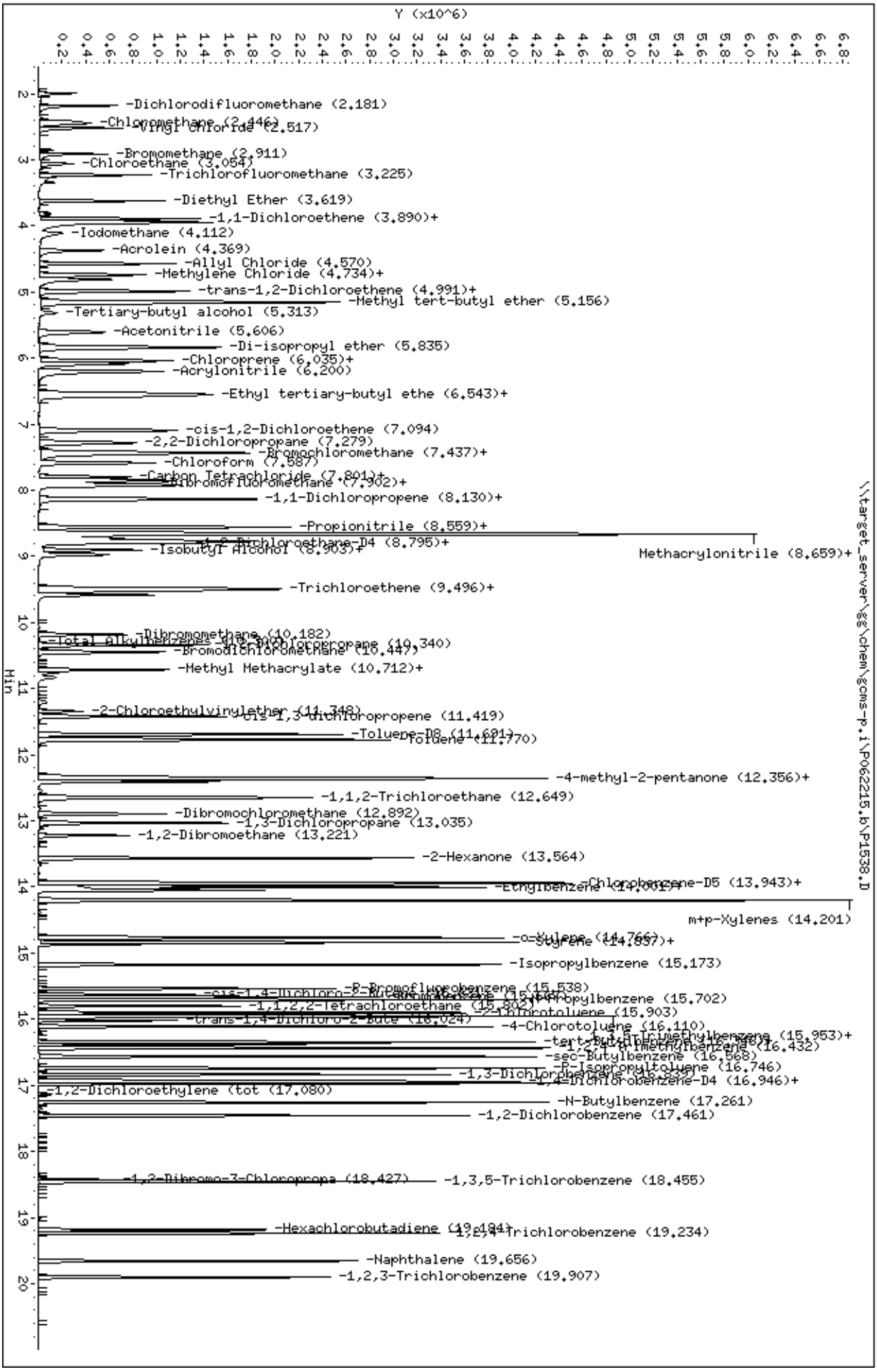
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.181	2.187	(0.250)	611461	100.000	104	
2 Chloromethane	50	2.438	2.437	(0.280)	823521	100.000	98.6	
3 Vinyl chloride	62	2.517	2.516	(0.289)	654924	100.000	107	
4 Bromomethane	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	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1538.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	6.085	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	

Data File: \\target_server\gg\chem\gcms-p.i\P062215.b\P1538.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	15.702	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 (10.2-10.5)
-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)
\\target_server\gg\chem\gcms-p.i\P062215.b\P1538.D

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

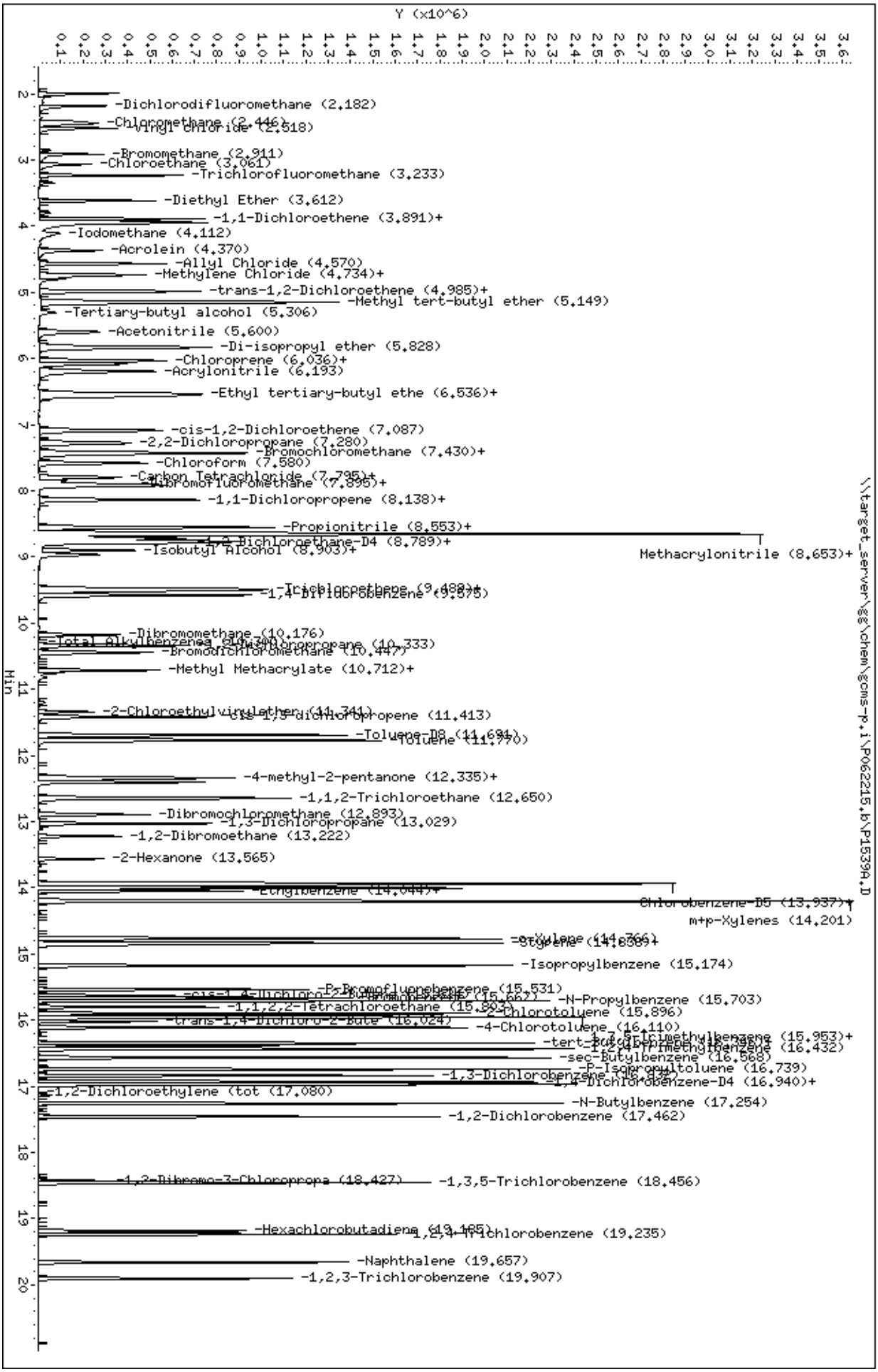
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.078	6.084	(0.697)	496334	55.0047	55.0	
	26 Acrylonitrile	52	6.193	6.191	(0.710)	518762	275.355	275	
	27 Ethyl tertiary-butyl ether	59	6.536	6.535	(0.750)	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 (16.361)
-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: SI4557
Lab ID : WG165671-4
Analytical Date: 06/29/15 11:14
Lab File ID : P1663.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	0.67407	0.67407	0.010	-1.27381	20.00000	Averaged	
2 Chloromethane	0.97507	0.88538	0.88538	0.100	-9.19845	20.00000	Averaged	
3 Vinyl chloride	0.71527	0.66751	0.66751	0.010	-6.67720	20.00000	Averaged	
4 Bromomethane	50.00000	44.16024	0.32687	0.010	-11.67953	20.00000	Linear	
5 Chloroethane	50.00000	54.97265	0.53282	0.010	9.94531	20.00000	Quadratic	
6 Trichlorofluoromethane	0.95098	0.99421	0.99421	0.010	4.54627	20.00000	Averaged	
9 1,1-Dichloroethene	0.51346	0.49928	0.49928	0.100	-2.76128	20.00000	Averaged	
10 Carbon Disulfide	1.88257	1.76570	1.76570	0.010	-6.20790	20.00000	Averaged	
11 Freon-113	0.32741	0.33503	0.33503	0.010	2.32645	20.00000	Averaged	
14 Methylene Chloride	50.00000	46.47652	0.65330	0.010	-7.04696	20.00000	Linear	
15 Acetone	0.22862	0.24739	0.24739	0.010	8.21343	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54706	0.54372	0.54372	0.010	-0.60999	20.00000	Averaged	
19 Methyl tert-butyl ether	1.71286	1.80535	1.80535	0.010	5.39966	20.00000	Averaged	
25 1,1-Dichloroethane	1.06259	1.05611	1.05611	0.100	-0.61009	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.66929	0.63574	0.63574	0.010	-5.01260	20.00000	Averaged	
30 1,2-Dichloroethylene (total	++++	1.17946	1.17946	0.010	++++	20.00000	Averaged	*
34 Chloroform	1.08575	1.06959	1.06959	0.010	-1.48875	20.00000	Averaged	
35 Carbon Tetrachloride	0.35203	0.39817	0.39817	0.010	13.10943	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.90065	0.95812	0.95812	0.010	6.38079	20.00000	Averaged	
40 2-Butanone	0.28381	0.31202	0.31202	0.010	9.93974	20.00000	Averaged	
41 Benzene	1.25984	1.23336	1.23336	0.010	-2.10166	20.00000	Averaged	
43 Cyclohexane	0.97651	0.93714	0.93714	0.010	-4.03200	20.00000	Averaged	
47 1,2-Dichloroethane	0.46428	0.50941	0.50941	0.010	9.72067	20.00000	Averaged	
48 Trichloroethene	0.32040	0.31739	0.31739	0.010	-0.93771	20.00000	Averaged	
51 1,2-Dichloropropane	0.31885	0.30510	0.30510	0.010	-4.31062	20.00000	Averaged	
52 Bromodichloromethane	0.45321	0.45943	0.45943	0.010	1.37103	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.51061	0.52339	0.52339	0.010	2.50194	20.00000	Averaged	
57 Toluene	0.82830	0.81289	0.81289	0.010	-1.86110	20.00000	Averaged	
58 4-methyl-2-pentanone	0.30152	0.34370	0.34370	0.010	13.99104	20.00000	Averaged	
59 Tetrachloroethene	0.24827	0.25606	0.25606	0.010	3.13752	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.43561	0.45908	0.45908	0.010	5.38805	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24948	0.24970	0.24970	0.010	0.08816	20.00000	Averaged	
62 Dibromochloromethane	0.35110	0.36830	0.36830	0.010	4.89878	20.00000	Averaged	
64 1,2-Dibromoethane	0.28831	0.30087	0.30087	0.010	4.35433	20.00000	Averaged	
65 2-Hexanone	0.23301	0.27558	0.27558	0.010	18.27103	20.00000	Averaged	
67 Chlorobenzene	0.97462	0.97713	0.97713	0.300	0.25725	20.00000	Averaged	
68 Ethylbenzene	0.53242	0.53942	0.53942	0.010	1.31351	20.00000	Averaged	
70 Xylenes (total)	++++	0.65883	0.65883	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.63887	0.66057	0.66057	0.010	3.39641	20.00000	Averaged	
72 o-Xylene	0.63898	0.65533	0.65533	0.010	2.55894	20.00000	Averaged	
73 Styrene	1.09328	1.15371	1.15371	0.010	5.52705	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: SI4557
Lab ID : WG165671-4
Analytical Date: 06/29/15 11:14
Lab File ID : P1663.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	0.22641	0.22641	0.100	6.68992	20.00000	Averaged
75 Isopropylbenzene	3.00793	3.17373	3.17373	0.010	5.51191	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.89396	0.92979	0.92979	0.300	4.00763	20.00000	Averaged
90 1,3-Dichlorobenzene	1.54428	1.57836	1.57836	0.010	2.20729	20.00000	Averaged
92 1,4-Dichlorobenzene	1.57680	1.60625	1.60625	0.010	1.86787	20.00000	Averaged
95 1,2-Dichlorobenzene	1.48132	1.52906	1.52906	0.010	3.22282	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.16142	0.18669	0.18669	0.010	15.65796	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.95249	1.00538	1.00538	0.010	5.55294	20.00000	Averaged
103 Methyl Acetate	0.50627	0.54529	0.54529	0.010	7.70750	20.00000	Averaged
104 Methylcyclohexane	0.94665	0.88711	0.88711	0.010	-6.28927	20.00000	Averaged
37 Dibromofluoromethane	0.54083	0.51510	0.51510	0.010	-4.75840	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.75952	0.74805	0.74805	0.010	-1.50963	20.00000	Averaged
55 Toluene-D8	1.10608	1.08616	1.08616	0.010	-1.80155	20.00000	Averaged
76 P-Bromofluorobenzene	0.50314	0.47644	0.47644	0.010	-5.30646	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1663.D
Report Date: 30-Jun-2015 10:42

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1663.D
Lab Smp Id: WG165671-4 Client Smp ID: ontinuing Calibrati
Inj Date : 29-JUN-2015 11:14 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165671-4,SI4557
Misc Info : WG165671,WG165276-4,SI4557-6
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 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

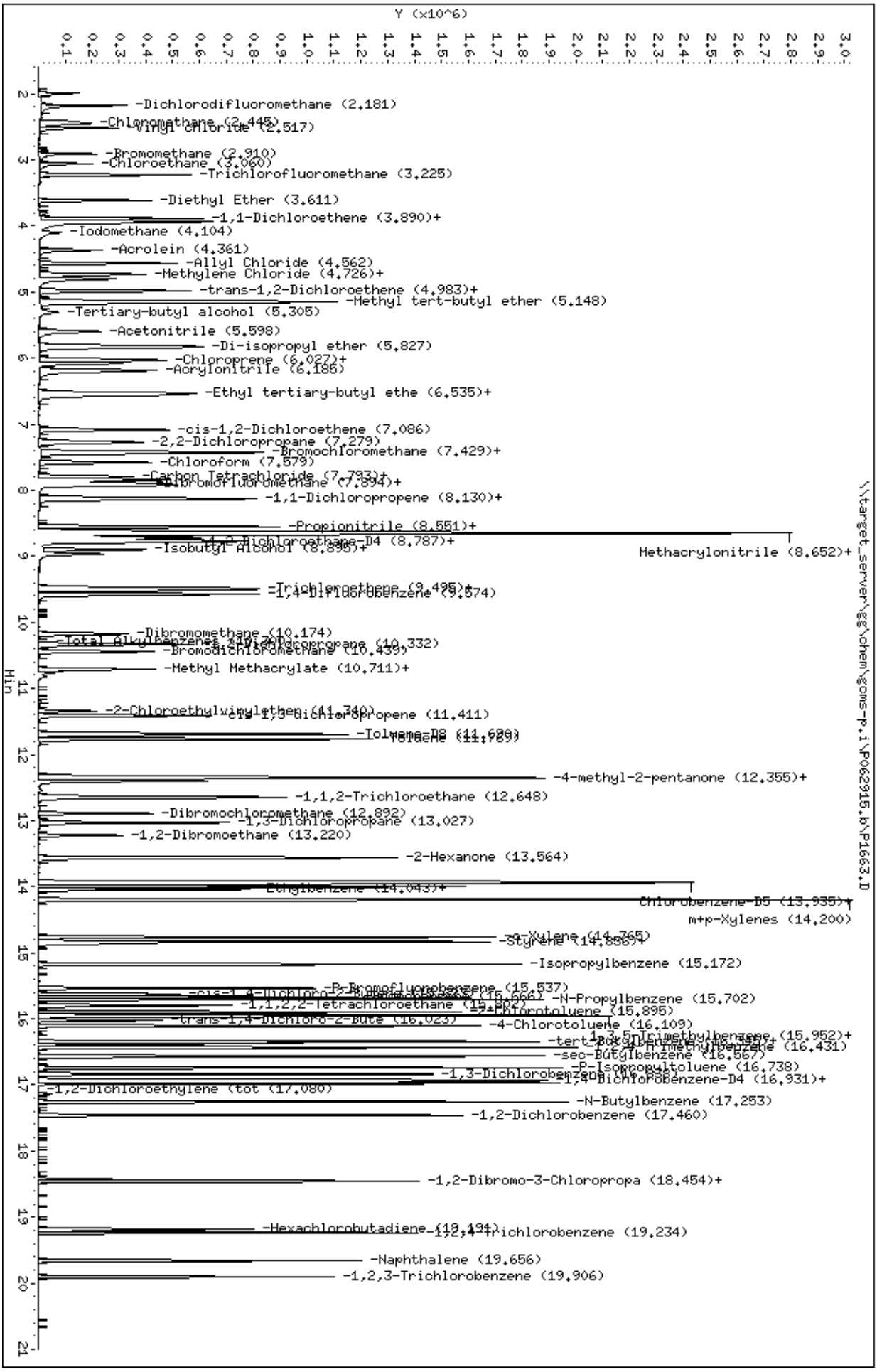
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.180	2.187	(0.250)	251443	50.0000	49.4	
2 Chloromethane	50	2.438	2.437	(0.280)	330269	50.0000	45.4	
3 Vinyl chloride	62	2.516	2.516	(0.289)	248997	50.0000	46.7	
4 Bromomethane	94	2.909	2.909	(0.334)	121932	50.0000	44.2	
5 Chloroethane	64	3.060	3.067	(0.351)	198753	50.0000	55.0	
6 Trichlorofluoromethane	101	3.224	3.231	(0.370)	370866	50.0000	52.3	
7 Diethyl Ether	59	3.610	3.617	(0.414)	215902	50.0000	49.5	
8 Tertiary-butyl alcohol	59	5.305	5.305	(0.609)	89261	250.000	243	
9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	186243	50.0000	48.6	
10 Carbon Disulfide	76	3.946	3.953	(0.453)	658650	50.0000	46.9	
11 Freon-113	151	3.932	3.939	(0.451)	124974	50.0000	51.2	
12 Iodomethane	142	4.104	4.111	(0.471)	135261	50.0000	34.8	
13 Acrolein	56	4.361	4.368	(0.500)	231913	250.000	237	
14 Methylene Chloride	84	4.733	4.733	(0.543)	243697	50.0000	46.5	
15 Acetone	43	4.804	4.804	(0.551)	461418	250.000	270	
16 Isobutyl Alcohol	43	8.966	8.966	(1.029)	165420	1000.00	973	
17 trans-1,2-Dichloroethene	96	4.976	4.983	(0.571)	202820	50.0000	49.7	
18 Allyl Chloride	41	4.561	4.568	(0.523)	338539	50.0000	56.2	
19 Methyl tert-butyl ether	73	5.147	5.147	(0.591)	1346880	100.000	105	
20 Acetonitrile	39	5.598	5.598	(0.642)	69018	500.000	486	
21 Di-isopropyl ether	45	5.827	5.827	(0.669)	773008	50.0000	48.6	
22 Chloroprene	53	6.027	6.027	(0.692)	394499	50.0000	51.2	
23 Propionitrile	54	8.622	8.622	(0.989)	360412	500.000	528	
24 Methacrylonitrile	41	8.651	8.651	(0.993)	1478449	500.000	533	

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1663.D
Report Date: 30-Jun-2015 10:42

	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	6.077	6.084	(0.697)	393954	50.0000	49.7	
	26 Acrylonitrile	52	6.184	6.191	(0.710)	425534	250.000	257	
	27 Ethyl tertiary-butyl ether	59	6.535	6.535	(0.750)	688257	50.0000	49.4	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	601315	50.0000	53.2	
	29 cis-1,2-Dichloroethene	96	7.085	7.085	(0.813)	237148	50.0000	47.5	
	31 Methyl Methacrylate	41	10.710	10.710	(1.119)	211623	50.0000	52.5	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.835)	306651	50.0000	53.6	
	33 Bromochloromethane	128	7.435	7.435	(0.853)	96047	50.0000	49.5	
	34 Chloroform	83	7.578	7.578	(0.870)	398982	50.0000	49.2	
	35 Carbon Tetrachloride	117	7.793	7.800	(0.814)	271022	50.0000	56.6	
	36 Tetrahydrofuran	42	7.836	7.843	(0.899)	362375	250.000	272	
$	37 Dibromofluoromethane	113	7.893	7.900	(0.906)	192143	50.0000	47.6	
	38 1,1,1-Trichloroethane	97	7.915	7.922	(0.908)	357402	50.0000	53.2	
	39 1,1-Dichloropropene	75	8.136	8.135	(0.850)	302257	50.0000	51.6	
	40 2-Butanone	43	8.115	8.115	(0.931)	581964	250.000	275	
	41 Benzene	78	8.551	8.558	(0.893)	839504	50.0000	48.9	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	373024	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	349574	50.0000	48.0	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.119)	157819	50.0000	46.3	
$	45 1,2-Dichloroethane-D4	65	8.787	8.787	(1.008)	279042	50.0000	49.2	
	46 Tertiary-amyl methyl ether	73	8.765	8.765	(1.006)	547308	50.0000	47.6	
	47 1,2-Dichloroethane	62	8.894	8.894	(0.929)	346738	50.0000	54.9	
	48 Trichloroethene	95	9.509	9.509	(0.993)	216038	50.0000	49.5	
*	49 1,4-Difluorobenzene	114	9.573	9.573	(1.000)	680663	50.0000		
	50 Dibromomethane	93	10.174	10.174	(1.063)	132811	50.0000	51.7	
	51 1,2-Dichloropropane	63	10.331	10.338	(1.079)	207671	50.0000	47.8	
	52 Bromodichloromethane	83	10.439	10.446	(1.090)	312715	50.0000	50.7	
	53 cis-1,3-dichloropropene	75	11.411	11.418	(1.192)	356250	50.0000	51.2	
	54 1,4-Dioxane	88	10.753	10.753	(1.123)	51241	1000.00	868	
$	55 Toluene-D8	98	11.690	11.690	(1.221)	739307	50.0000	49.1	
	56 2-Chloroethylvinylether	63	11.339	11.339	(1.184)	88218	50.0000	42.9	
	57 Toluene	92	11.768	11.768	(1.229)	553302	50.0000	49.1	
	58 4-methyl-2-pentanone	43	12.355	12.355	(1.291)	1169735	250.000	285	
	59 Tetrachloroethene	164	12.333	12.333	(0.886)	155438	50.0000	51.6	
	60 trans-1,3-Dichloropropene	75	12.405	12.405	(1.296)	312478	50.0000	52.7	
	61 1,1,2-Trichloroethane	83	12.634	12.634	(1.320)	169962	50.0000	50.0	
	62 Dibromochloromethane	129	12.891	12.891	(0.926)	223571	50.0000	52.4	
	63 1,3-Dichloropropane	76	13.027	13.027	(0.935)	380935	50.0000	50.9	
	64 1,2-Dibromoethane	107	13.220	13.220	(1.381)	204789	50.0000	52.2	
	65 2-Hexanone	43	13.563	13.563	(0.974)	836444	250.000	296	
*	66 Chlorobenzene-D5	117	13.928	13.935	(1.000)	607035	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	593153	50.0000	50.1	
	152 1-Chlorohexane	91	13.935	13.935	(1.000)	307949	50.0000	46.8	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	327444	50.0000	50.6	
	69 1,1,1,2-Tetrachloroethane	131	14.042	14.049	(1.008)	213803	50.0000	53.6	
	71 m+p-Xylenes	106	14.200	14.199	(1.020)	801981	100.000	103	
	72 o-Xylene	106	14.764	14.764	(1.060)	397809	50.0000	51.3	
	73 Styrene	104	14.836	14.836	(1.065)	700340	50.0000	52.8	
	74 Bromoform	173	14.864	14.872	(1.067)	137441	50.0000	53.3	
	75 Isopropylbenzene	105	15.172	15.172	(0.896)	1059095	50.0000	52.8	
$	76 P-Bromofluorobenzene	95	15.537	15.537	(1.623)	324293	50.0000	47.3	
	77 cis-1,4-Dichloro-2-Butene	53	15.622	15.622	(0.923)	114372	50.0000	52.2	
	78 trans-1,4-Dichloro-2-Butene	53	16.023	16.023	(0.947)	91926	50.0000	57.1	
	79 Bromobenzene	156	15.665	15.665	(0.926)	252230	50.0000	49.6	

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1663.D
Report Date: 30-Jun-2015 10:42

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)	1267806	50.0000	53.1	
81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	310278	50.0000	52.0	
82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	945134	50.0000	53.4	
83 2-Chlorotoluene	91	15.894	15.894	(0.939)	790405	50.0000	51.4	
84 1,2,3-Trichloropropane	75	15.966	15.966	(0.943)	243570	50.0000	53.2	
85 4-Chlorotoluene	91	16.109	16.109	(0.952)	846350	50.0000	52.4	
86 tert-Butylbenzene	119	16.345	16.344	(0.966)	911903	50.0000	53.9	
87 Pentachloroethane	117	16.373	16.373	(0.967)	183179	50.0000	52.4	
88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	954982	50.0000	54.2	
89 P-Isopropyltoluene	119	16.738	16.745	(0.989)	1016091	50.0000	53.2	
90 1,3-Dichlorobenzene	146	16.838	16.838	(0.995)	526711	50.0000	51.1	
* 91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	333707	50.0000		
92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	536018	50.0000	50.9	
93 N-Butylbenzene	91	17.253	17.260	(1.019)	965775	50.0000	53.6	
94 sec-Butylbenzene	105	16.566	16.565	(0.979)	1147267	50.0000	52.6	
95 1,2-Dichlorobenzene	146	17.460	17.460	(1.032)	510258	50.0000	51.6	
96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	62300	50.0000	57.8	
97 1,3,5-Trichlorobenzene	180	18.461	18.461	(1.091)	349402	50.0000	51.3	
98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	115726	50.0000	52.8	
99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	335502	50.0000	52.8	
100 1,2,3-Trimethylbenzene	105	16.974	16.974	(1.003)	975747	50.0000	53.1	
101 Naphthalene	128	19.655	19.655	(1.161)	816012	50.0000	53.6	
102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	284532	50.0000	57.7	
103 Methyl Acetate	43	4.997	4.997	(0.573)	203406	50.0000	53.8	
104 Methylcyclohexane	83	9.480	9.480	(1.088)	330913	50.0000	46.8	


Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1663.D
Date : 29-JUN-2015 11:14
Client ID: ontinuing Calibrati
Sample Info: WG165671-4,SI4557
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 (2.445)
Vinyl Chloride (2.517)
-Bromomethane (2.910)
-Chloroethane (3.060)
-Trichlorofluoromethane (3.225)
-Diethyl Ether (3.611)
-1,1-Dichloroethene (3.890)+
-Iodomethane (4.104)
-Acrolein (4.361)
-Allyl Chloride (4.562)
-Methylene Chloride (4.726)+
-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 (6.185)
-Ethyl tertiary-butyl ethe (6.535)+
-cis-1,2-Dichloroethene (7.086)
-2,2-Dichloropropane (7.279)
-Bromochloromethane (7.429)+
-Chloroform (7.579)
-Carbon Tetrachloride (7.793)+
-Dibromofluoromethane (7.894)+
-1,1-Dichloropropene (8.130)+
-Propionitrile (8.551)+
-1,2-Dichloroethane-D4 (8.787)+
Methacrylonitrile (8.652)+
-Isobutyl Alcohol (8.895)+
-Trichloroethene (9.495)+
-1,4-Difluorobenzene (9.574)
-Dibromomethane (10.174)
-Total Alkylbenzenes
-1,2-Dichloropropane (10.332)
-Bromodichloromethane (10.439)
-Methyl Methacrylate (10.711)+
-2-Chloroethylvinylether (11.340)
-cis-1,3-Dichloropropene (11.411)
-Toluene-D8 (11.690)
-Toluene (11.789)
-4-methyl-2-pentanone (12.355)+
-1,1,2-Trichloroethane (12.648)
-Dibromochloromethane (12.892)
-1,3-Dichloropropane (13.027)
-1,2-Dibromoethane (13.220)
-2-Hexanone (13.564)
-Ethylbenzene (14.043)+
Chlorobenzene-D5 (13.935)+
m+p-Xylenes (14.200)
-o-Xylene (14.765)
-Styrene (14.556)+
-Isopropylbenzene (15.172)
-P-Bromofluorobenzene (15.537)
-cis-1,4-Dichloro-2-Butene (15.661)
-N-Propylbenzene (15.702)
-1,1,2,2-Tetrachloroethane (15.802)
-2-Chlorotoluene (15.895)
-trans-1,4-Dichloro-2-Bute (16.023)
-4-Chlorotoluene (16.109)
-1,3,5-Trimethylbenzene (15.952)+
-tert-Butylbenzene (16.338)
-1,2,4-Trimethylbenzene (16.431)
-sec-Butylbenzene (16.567)
-P-Isopropyltoluene (16.738)
-1,3-Dichlorobenzene (16.838)
-1,4-Dichlorobenzene-D4 (16.931)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.253)
-1,2-Dichlorobenzene (17.460)
-1,2-Dibromo-3-Chloropropa (18.454)+
-Hexachlorobutadiene (19.194)
-1,2,4-Trichlorobenzene (19.234)
-Naphthalene (19.656)
-1,2,3-Trichlorobenzene (19.906)

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: SI4557
Lab ID : WG165740-4
Analytical Date: 06/30/15 10:19
Lab File ID : P1691.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	0.66330	0.66330	0.010	-2.85115	20.00000	Averaged	
2 Chloromethane	0.97507	0.84979	0.84979	0.100	-12.84880	20.00000	Averaged	
3 Vinyl chloride	0.71527	0.65900	0.65900	0.010	-7.86679	20.00000	Averaged	
4 Bromomethane	50.00000	39.79654	0.29368	0.010	-20.40693	20.00000	Linear	*
5 Chloroethane	50.00000	53.05863	0.52016	0.010	6.11726	20.00000	Quadratic	
6 Trichlorofluoromethane	0.95098	1.00444	1.00444	0.010	5.62131	20.00000	Averaged	
9 1,1-Dichloroethene	0.51346	0.46550	0.46550	0.100	-9.33922	20.00000	Averaged	
10 Carbon Disulfide	1.88257	1.76176	1.76176	0.010	-6.41758	20.00000	Averaged	
11 Freon-113	0.32741	0.32465	0.32465	0.010	-0.84375	20.00000	Averaged	
14 Methylene Chloride	50.00000	48.96714	0.68779	0.010	-2.06572	20.00000	Linear	
15 Acetone	0.22862	0.22046	0.22046	0.010	-3.56814	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.54706	0.51334	0.51334	0.010	-6.16293	20.00000	Averaged	
19 Methyl tert-butyl ether	1.71286	1.59690	1.59690	0.010	-6.77035	20.00000	Averaged	
25 1,1-Dichloroethane	1.06259	1.01395	1.01395	0.100	-4.57809	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.66929	0.62457	0.62457	0.010	-6.68249	20.00000	Averaged	
30 1,2-Dichloroethylene (total	++++	1.13791	1.13791	0.010	++++	20.00000	Averaged	*
34 Chloroform	1.08575	1.08389	1.08389	0.010	-0.17158	20.00000	Averaged	
35 Carbon Tetrachloride	0.35203	0.37868	0.37868	0.010	7.57218	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.90065	0.92512	0.92512	0.010	2.71641	20.00000	Averaged	
40 2-Butanone	0.28381	0.25461	0.25461	0.010	-10.29008	20.00000	Averaged	
41 Benzene	1.25984	1.22272	1.22272	0.010	-2.94628	20.00000	Averaged	
43 Cyclohexane	0.97651	0.88210	0.88210	0.010	-9.66786	20.00000	Averaged	
47 1,2-Dichloroethane	0.46428	0.51435	0.51435	0.010	10.78431	20.00000	Averaged	
48 Trichloroethene	0.32040	0.31520	0.31520	0.010	-1.62185	20.00000	Averaged	
51 1,2-Dichloropropane	0.31885	0.30896	0.30896	0.010	-3.10137	20.00000	Averaged	
52 Bromodichloromethane	0.45321	0.47205	0.47205	0.010	4.15694	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.51061	0.50763	0.50763	0.010	-0.58440	20.00000	Averaged	
57 Toluene	0.82830	0.81399	0.81399	0.010	-1.72826	20.00000	Averaged	
58 4-methyl-2-pentanone	0.30152	0.30109	0.30109	0.010	-0.14168	20.00000	Averaged	
59 Tetrachloroethene	0.24827	0.24725	0.24725	0.010	-0.41330	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.43561	0.44484	0.44484	0.010	2.11992	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24948	0.24110	0.24110	0.010	-3.35750	20.00000	Averaged	
62 Dibromochloromethane	0.35110	0.37137	0.37137	0.010	5.77191	20.00000	Averaged	
64 1,2-Dibromoethane	0.28831	0.28838	0.28838	0.010	0.02467	20.00000	Averaged	
65 2-Hexanone	0.23301	0.23252	0.23252	0.010	-0.21167	20.00000	Averaged	
67 Chlorobenzene	0.97462	0.96999	0.96999	0.300	-0.47556	20.00000	Averaged	
68 Ethylbenzene	0.53242	0.52855	0.52855	0.010	-0.72812	20.00000	Averaged	
70 Xylenes (total)	++++	0.64949	0.64949	0.010	++++	20.00000	Averaged	*
71 m+p-Xylenes	0.63887	0.65203	0.65203	0.010	2.05959	20.00000	Averaged	
72 o-Xylene	0.63898	0.64442	0.64442	0.010	0.85127	20.00000	Averaged	
73 Styrene	1.09328	1.15822	1.15822	0.010	5.93949	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: SI4557
Lab ID : WG165740-4
Analytical Date: 06/30/15 10:19
Lab File ID : P1691.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	0.22556	0.22556	0.100	6.28918	20.00000	Averaged
75 Isopropylbenzene	3.00793	3.08509	3.08509	0.010	2.56519	20.00000	Averaged
81 1,1,2,2-Tetrachloroethane	0.89396	0.83811	0.83811	0.300	-6.24815	20.00000	Averaged
90 1,3-Dichlorobenzene	1.54428	1.54717	1.54717	0.010	0.18740	20.00000	Averaged
92 1,4-Dichlorobenzene	1.57680	1.58393	1.58393	0.010	0.45238	20.00000	Averaged
95 1,2-Dichlorobenzene	1.48132	1.50221	1.50221	0.010	1.41054	20.00000	Averaged
96 1,2-Dibromo-3-Chloropropane	0.16142	0.15785	0.15785	0.010	-2.21131	20.00000	Averaged
99 1,2,4-Trichlorobenzene	0.95249	0.93683	0.93683	0.010	-1.64441	20.00000	Averaged
103 Methyl Acetate	0.50627	0.42310	0.42310	0.010	-16.42819	20.00000	Averaged
104 Methylcyclohexane	0.94665	0.88443	0.88443	0.010	-6.57230	20.00000	Averaged
37 Dibromofluoromethane	0.54083	0.51654	0.51654	0.010	-4.49174	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.75952	0.74601	0.74601	0.010	-1.77849	20.00000	Averaged
55 Toluene-D8	1.10608	1.09364	1.09364	0.010	-1.12475	20.00000	Averaged
76 P-Bromofluorobenzene	0.50314	0.49010	0.49010	0.010	-2.59163	20.00000	Averaged

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1691.D
Report Date: 08-Jul-2015 13:31

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P063015.b\P1691.D
Lab Smp Id: WG165740-4 Client Smp ID: ontinuing Calibrati
Inj Date : 30-JUN-2015 10:19 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165740-4,SI4557
Misc Info : WG165740,WG165276-4,SI4557-9
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P063015.b\P826A09.m
Meth Date : 08-Jul-2015 13:28 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: SW8260OLM-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

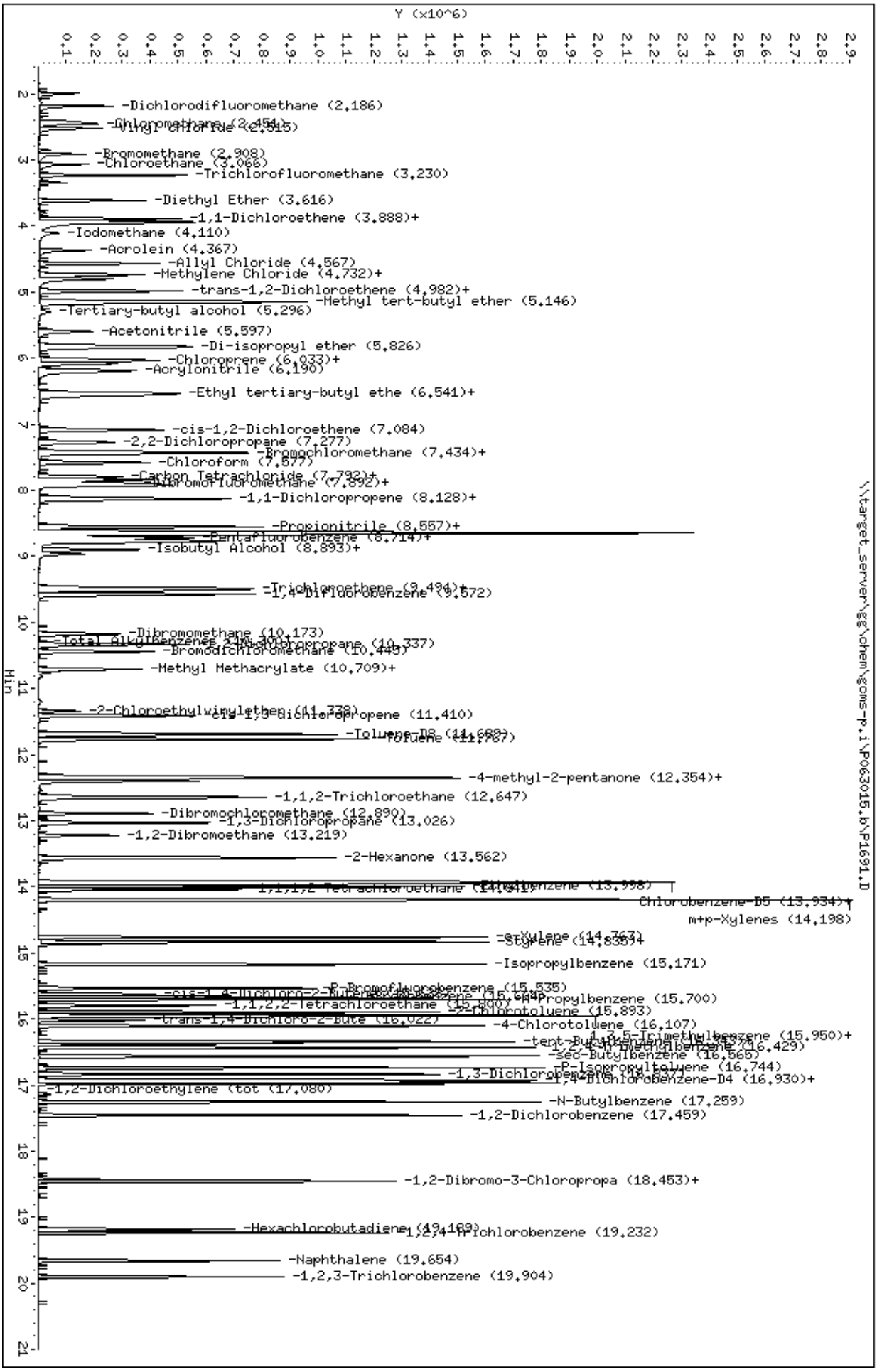
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.186	2.187	(0.251)	229258	50.0000	48.6	
2 Chloromethane	50	2.422	2.437	(0.278)	293716	50.0000	43.6	
3 Vinyl chloride	62	2.515	2.516	(0.289)	227773	50.0000	46.1	
4 Bromomethane	94	2.908	2.909	(0.334)	101507	50.0000	39.8	
5 Chloroethane	64	3.065	3.067	(0.352)	179784	50.0000	53.0	
6 Trichlorofluoromethane	101	3.230	3.231	(0.371)	347168	50.0000	52.8	
7 Diethyl Ether	59	3.616	3.617	(0.415)	191024	50.0000	47.3	
8 Tertiary-butyl alcohol	59	5.296	5.305	(0.608)	50652	250.000	150	
9 1,1-Dichloroethene	96	3.895	3.889	(0.447)	160894	50.0000	45.3	
10 Carbon Disulfide	76	3.952	3.953	(0.454)	608923	50.0000	46.8	
11 Freon-113	151	3.937	3.939	(0.452)	112210	50.0000	49.6	
12 Iodomethane	142	4.109	4.111	(0.472)	117033	50.0000	32.5	
13 Acrolein	56	4.366	4.368	(0.501)	189711	250.000	209	
14 Methylene Chloride	84	4.731	4.733	(0.543)	237723	50.0000	49.0	
15 Acetone	43	4.803	4.804	(0.551)	380990	250.000	241	
16 Isobutyl Alcohol	43	8.964	8.966	(1.029)	104891	1000.00	674	
17 trans-1,2-Dichloroethene	96	4.981	4.983	(0.572)	177428	50.0000	46.9	
18 Allyl Chloride	41	4.567	4.568	(0.524)	278052	50.0000	49.8	
19 Methyl tert-butyl ether	73	5.146	5.147	(0.591)	1103884	100.000	93.2	
20 Acetonitrile	39	5.596	5.598	(0.642)	59905	500.000	455	
21 Di-isopropyl ether	45	5.825	5.827	(0.668)	700151	50.0000	47.5	
22 Chloroprene	53	6.032	6.027	(0.692)	361486	50.0000	50.7	
23 Propionitrile	54	8.614	8.622	(0.989)	280467	500.000	443	
24 Methacrylonitrile	41	8.649	8.651	(0.993)	1253985	500.000	488	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1691.D
Report Date: 08-Jul-2015 13:31

	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	6.075	6.084	(0.697)	350454	50.0000	47.7	
	26 Acrylonitrile	52	6.190	6.191	(0.710)	346860	250.000	226	
	27 Ethyl tertiary-butyl ether	59	6.533	6.535	(0.750)	584212	50.0000	45.3	
	28 Vinyl Acetate	43	6.569	6.570	(0.686)	493525	50.0000	47.7	
	29 cis-1,2-Dichloroethene	96	7.083	7.085	(0.813)	215872	50.0000	46.6	
	31 Methyl Methacrylate	41	10.709	10.710	(1.118)	185497	50.0000	50.3	
	32 2,2-Dichloropropane	77	7.277	7.278	(0.835)	208798	50.0000	39.4	
	33 Bromochloromethane	128	7.441	7.435	(0.854)	89009	50.0000	49.5	
	34 Chloroform	83	7.577	7.578	(0.870)	374629	50.0000	49.9	
	35 Carbon Tetrachloride	117	7.798	7.800	(0.814)	236069	50.0000	53.8	
	36 Tetrahydrofuran	42	7.841	7.843	(0.900)	274699	250.000	223	
$	37 Dibromofluoromethane	113	7.891	7.900	(0.906)	178533	50.0000	47.8	
	38 1,1,1-Trichloroethane	97	7.920	7.922	(0.909)	319752	50.0000	51.4	
	39 1,1-Dichloropropene	75	8.135	8.135	(0.849)	266612	50.0000	49.7	
	40 2-Butanone	43	8.113	8.115	(0.931)	440009	250.000	224	
	41 Benzene	78	8.556	8.558	(0.893)	762242	50.0000	48.5	
*	42 Pentafluorobenzene	168	8.714	8.715	(1.000)	345634	50.0000		
	43 Cyclohexane	56	7.427	7.428	(0.852)	304884	50.0000	45.2	
	44 Ethyl Methacrylate	69	10.709	10.710	(1.118)	135863	50.0000	43.6	
$	45 1,2-Dichloroethane-D4	65	8.785	8.787	(1.008)	257847	50.0000	49.1	
	46 Tertiary-amyl methyl ether	73	8.764	8.765	(1.006)	459809	50.0000	43.2	
	47 1,2-Dichloroethane	62	8.900	8.894	(0.929)	320645	50.0000	55.4	
	48 Trichloroethene	95	9.507	9.509	(0.993)	196496	50.0000	49.2	
*	49 1,4-Difluorobenzene	114	9.579	9.573	(1.000)	623398	50.0000		
	50 Dibromomethane	93	10.172	10.174	(1.062)	117950	50.0000	50.2	
	51 1,2-Dichloropropane	63	10.337	10.338	(1.079)	192603	50.0000	48.4	
	52 Bromodichloromethane	83	10.444	10.446	(1.090)	294277	50.0000	52.1	
	53 cis-1,3-dichloropropene	75	11.416	11.418	(1.192)	316454	50.0000	49.7	
	54 1,4-Dioxane	88	10.751	10.753	(1.122)	31008	1000.00	573	
$	55 Toluene-D8	98	11.688	11.690	(1.220)	681775	50.0000	49.4	
	56 2-Chloroethylvinylether	63	11.338	11.339	(1.184)	58974	50.0000	24.6	
	57 Toluene	92	11.767	11.768	(1.228)	507438	50.0000	49.1	
	58 4-methyl-2-pentanone	43	12.353	12.355	(1.290)	938500	250.000	250	
	59 Tetrachloroethene	164	12.332	12.333	(0.885)	140624	50.0000	49.8	
	60 trans-1,3-Dichloropropene	75	12.403	12.405	(1.295)	277314	50.0000	51.0	
	61 1,1,2-Trichloroethane	83	12.639	12.634	(1.319)	150304	50.0000	48.3	
	62 Dibromochloromethane	129	12.889	12.891	(0.925)	211219	50.0000	52.9	
	63 1,3-Dichloropropane	76	13.025	13.027	(0.935)	342961	50.0000	48.9	
	64 1,2-Dibromoethane	107	13.218	13.220	(1.380)	179778	50.0000	50.0	
	65 2-Hexanone	43	13.562	13.563	(0.973)	661235	250.000	249	
*	66 Chlorobenzene-D5	117	13.933	13.935	(1.000)	568763	50.0000		
	67 Chlorobenzene	112	13.955	13.956	(1.002)	551694	50.0000	49.8	
	152 1-Chlorohexane	91	13.933	13.935	(1.000)	276377	50.0000	44.8	
	68 Ethylbenzene	106	13.998	13.999	(1.005)	300617	50.0000	49.6	
	69 1,1,1,2-Tetrachloroethane	131	14.048	14.049	(1.008)	201566	50.0000	53.9	
	71 m+p-Xylenes	106	14.198	14.199	(1.019)	741703	100.000	102	
	72 o-Xylene	106	14.763	14.764	(1.060)	366522	50.0000	50.4	
	73 Styrene	104	14.834	14.836	(1.065)	658750	50.0000	53.0	
	74 Bromoform	173	14.863	14.872	(1.067)	128292	50.0000	53.1	
	75 Isopropylbenzene	105	15.170	15.172	(0.896)	972532	50.0000	51.3	
$	76 P-Bromofluorobenzene	95	15.535	15.537	(1.622)	305525	50.0000	48.7	
	77 cis-1,4-Dichloro-2-Butene	53	15.628	15.622	(0.924)	89189	50.0000	43.1	
	78 trans-1,4-Dichloro-2-Butene	53	16.021	16.023	(0.947)	75147	50.0000	49.4	
	79 Bromobenzene	156	15.664	15.665	(0.926)	239016	50.0000	49.7	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1691.D
Report Date: 08-Jul-2015 13:31

	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	15.699	15.701	(0.928)	1172659	50.0000	52.0	
	81 1,1,2,2-Tetrachloroethane	83	15.799	15.801	(0.934)	264202	50.0000	46.9	
	82 1,3,5-Trimethylbenzene	105	15.950	15.951	(0.943)	885529	50.0000	53.0	
	83 2-Chlorotoluene	91	15.892	15.894	(0.939)	740251	50.0000	50.9	
	84 1,2,3-Trichloropropane	75	15.964	15.966	(0.943)	210162	50.0000	48.6	
	85 4-Chlorotoluene	91	16.107	16.109	(0.952)	794688	50.0000	52.1	
	86 tert-Butylbenzene	119	16.343	16.344	(0.966)	846502	50.0000	52.9	
	87 Pentachloroethane	117	16.372	16.373	(0.967)	170581	50.0000	51.6	
	88 1,2,4-Trimethylbenzene	105	16.429	16.430	(0.971)	889972	50.0000	53.4	
	89 P-Isopropyltoluene	119	16.743	16.745	(0.989)	927519	50.0000	51.4	
	90 1,3-Dichlorobenzene	146	16.836	16.838	(0.995)	487724	50.0000	50.1	
*	91 1,4-Dichlorobenzene-D4	152	16.922	16.924	(1.000)	315236	50.0000		
	92 1,4-Dichlorobenzene	146	16.944	16.945	(1.001)	499313	50.0000	50.2	
	93 N-Butylbenzene	91	17.258	17.260	(1.020)	865461	50.0000	50.9	
	94 sec-Butylbenzene	105	16.565	16.565	(0.979)	1040566	50.0000	50.5	
	95 1,2-Dichlorobenzene	146	17.458	17.460	(1.032)	473552	50.0000	50.7	
	96 1,2-Dibromo-3-Chloropropane	75	18.424	18.425	(1.089)	49759	50.0000	48.9	
	97 1,3,5-Trichlorobenzene	180	18.459	18.461	(1.091)	322045	50.0000	50.0	
	98 Hexachlorobutadiene	225	19.189	19.190	(1.134)	103141	50.0000	49.9	
	99 1,2,4-Trichlorobenzene	180	19.232	19.233	(1.136)	295321	50.0000	49.2	
	100 1,2,3-Trimethylbenzene	105	16.972	16.974	(1.003)	914468	50.0000	52.7	
	101 Naphthalene	128	19.653	19.655	(1.161)	591375	50.0000	41.4	
	102 1,2,3-Trichlorobenzene	180	19.904	19.905	(1.176)	226632	50.0000	48.7	
	103 Methyl Acetate	43	4.996	4.997	(0.573)	146237	50.0000	41.8	
	104 Methylcyclohexane	83	9.479	9.480	(1.088)	305689	50.0000	46.7	


Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1691.D
Date : 30-JUN-2015 10:19
Client ID: ontinuing Calibrati
Sample Info: WG165740-4,SI4557
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-p.i
Operator: EME
Column diameter: 0.18
\\target_server\gg\chem\gcms-p.i\P063015.b\P1691.D
Y (x10^6)
Min
-Dichlorodifluoromethane (2.186)
-Chloromethane (2.454)
-Vinyl chloride (2.515)
-Bromomethane (2.908)
-Chloroethane (3.066)
-Trichlorofluoromethane (3.230)
-Diethyl Ether (3.616)
-1,1-Dichloroethene (3.888)+
-Iodomethane (4.110)
-Acrolein (4.367)
-Allyl Chloride (4.567)
-Methylene Chloride (4.732)+
-trans-1,2-Dichloroethene (4.982)+
-Methyl tert-butyl ether (5.146)
-Tertiary-butyl alcohol (5.296)
-Acetonitrile (5.597)
-Di-isopropyl ether (5.826)
-Chloroprene (6.033)+
-Acrylonitrile (6.190)
-Ethyl tertiary-butyl ethe (6.541)+
-cis-1,2-Dichloroethene (7.084)
-2,2-Dichloropropane (7.277)
-Bromochloromethane (7.434)+
-Chloroform (7.577)
-Carbon Tetrachloride (7.792)+
-Dibromofluoromethane (7.892)+
-1,1-Dichloropropene (8.128)+
-Propionitrile (8.557)+
-Pentafluorobenzene (8.714)+
-Isobutyl Alcohol (8.893)+
-Trichloroethene (9.494)+
-1,4-Difluorobenzene (9.572)
-Dibromomethane (10.173)
-Total Alkylbenzenes
-2,2-Dichloropropane (10.337)
-Bromodichloromethane (10.449)
-Methyl Methacrylate (10.709)+
-2-Chloroethylvinylether (11.339)
-cis-1,3-Dichloropropene (11.410)
-Toluene-D8 (11.669)
-Toluene (11.767)
-4-methyl-2-pentanone (12.354)+
-1,1,2-Trichloroethane (12.647)
-Dibromochloromethane (12.890)
-1,3-Dichloropropane (13.026)
-1,2-Dibromoethane (13.219)
-2-Hexanone (13.562)
-1,1,1,2-Tetrachloroethane (14.041)
-Ethylbenzene (13.998)
-Chlorobenzene-D5 (13.934)+
m+p-Xylenes (14.198)
-o-Xylene (14.763)
-Styrene (14.833)+
-Isopropylbenzene (15.171)
-P-Bromofluorobenzene (15.535)
-cis-1,4-Dichloro-2-Butene (15.604)
-n-Propylbenzene (15.700)
-1,1,2,2-Tetrachloroethane (15.800)
-2-Chlorotoluene (15.893)
-trans-1,4-Dichloro-2-Bute (16.022)
-4-Chlorotoluene (16.107)
-1,3,5-Trimethylbenzene (15.950)+
-tert-Butylbenzene (16.276)
-1,2,4-Trimethylbenzene (16.429)
-sec-Butylbenzene (16.565)
-P-Isopropyltoluene (16.744)
-1,3-Dichlorobenzene (16.837)
-1,4-Dichlorobenzene-D4 (16.930)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.259)
-1,2-Dichlorobenzene (17.459)
-1,2-Dibromo-3-Chloropropa (18.453)+
-Hexachlorobutadiene (19.169)
-1,2,4-Trichlorobenzene (19.232)
-Naphthalene (19.654)
-1,2,3-Trichlorobenzene (19.904)

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

Date : 22-JUN-2015 09:27

Client ID:

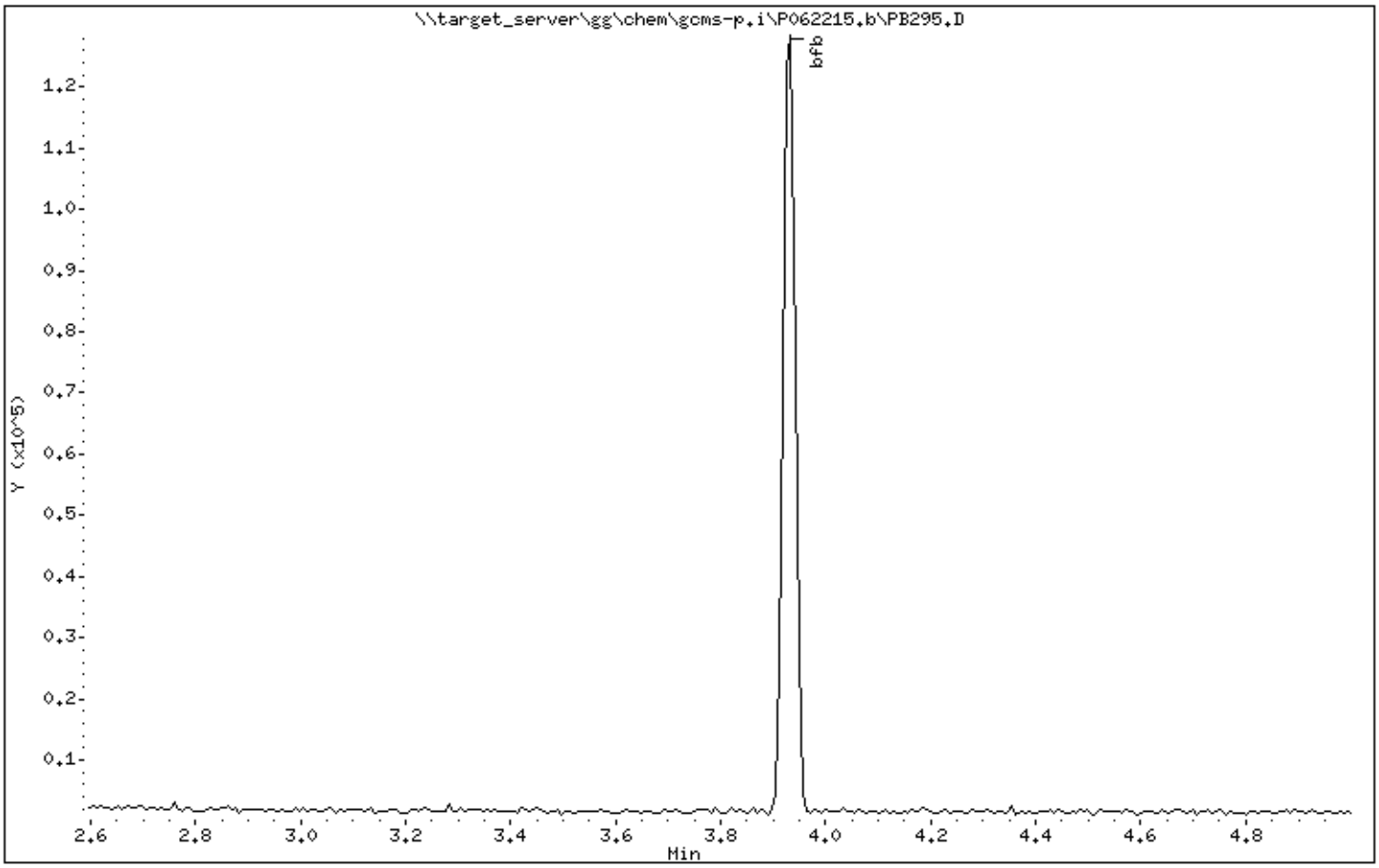
Instrument: gcms-p.i

Sample Info: WG165276-10,SI4557

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

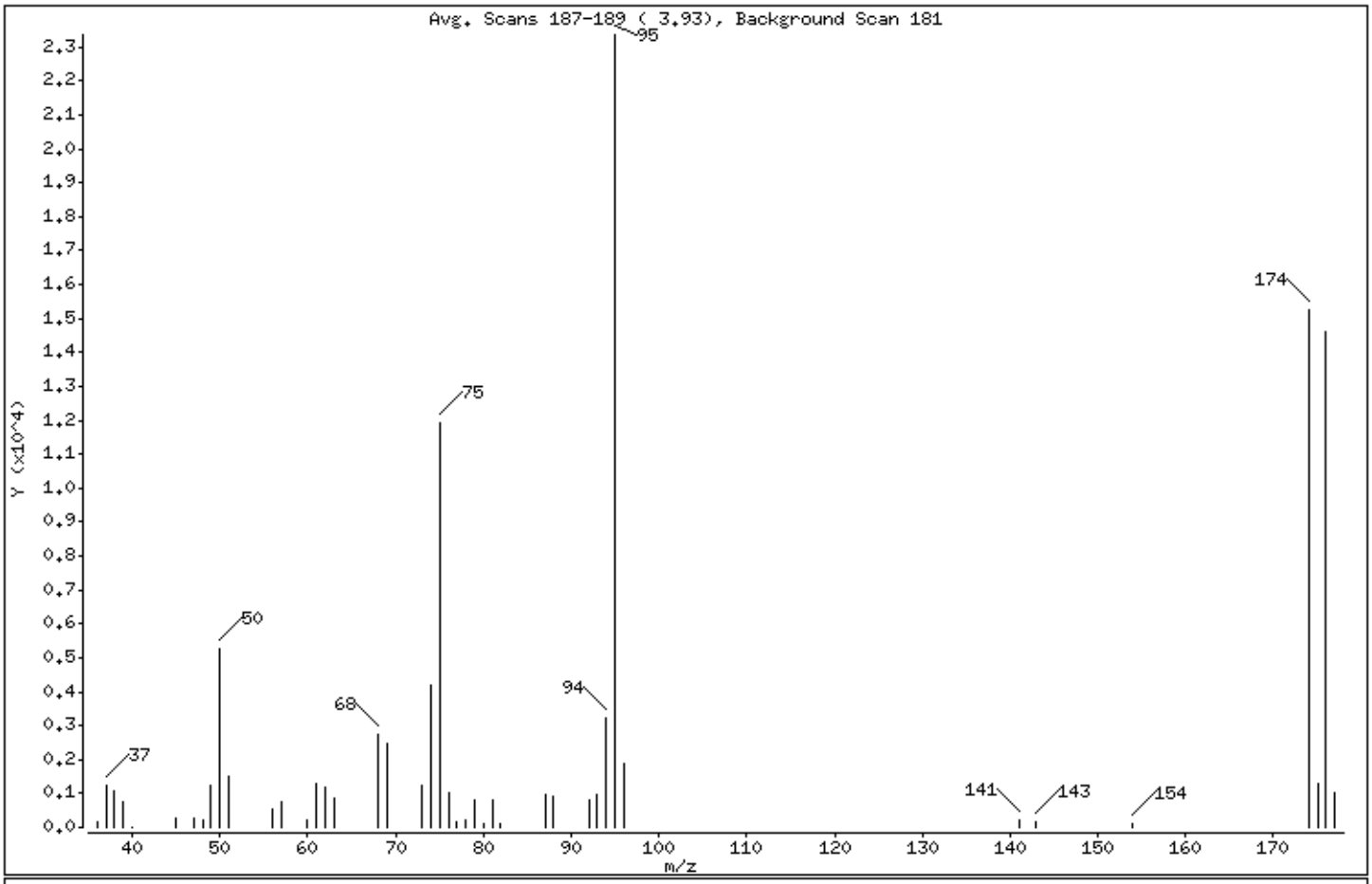
Sample Info: WG165276-10,SI4557

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,SI4557

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\P062915.b\PB300.D

Date : 29-JUN-2015 10:46

Client ID:

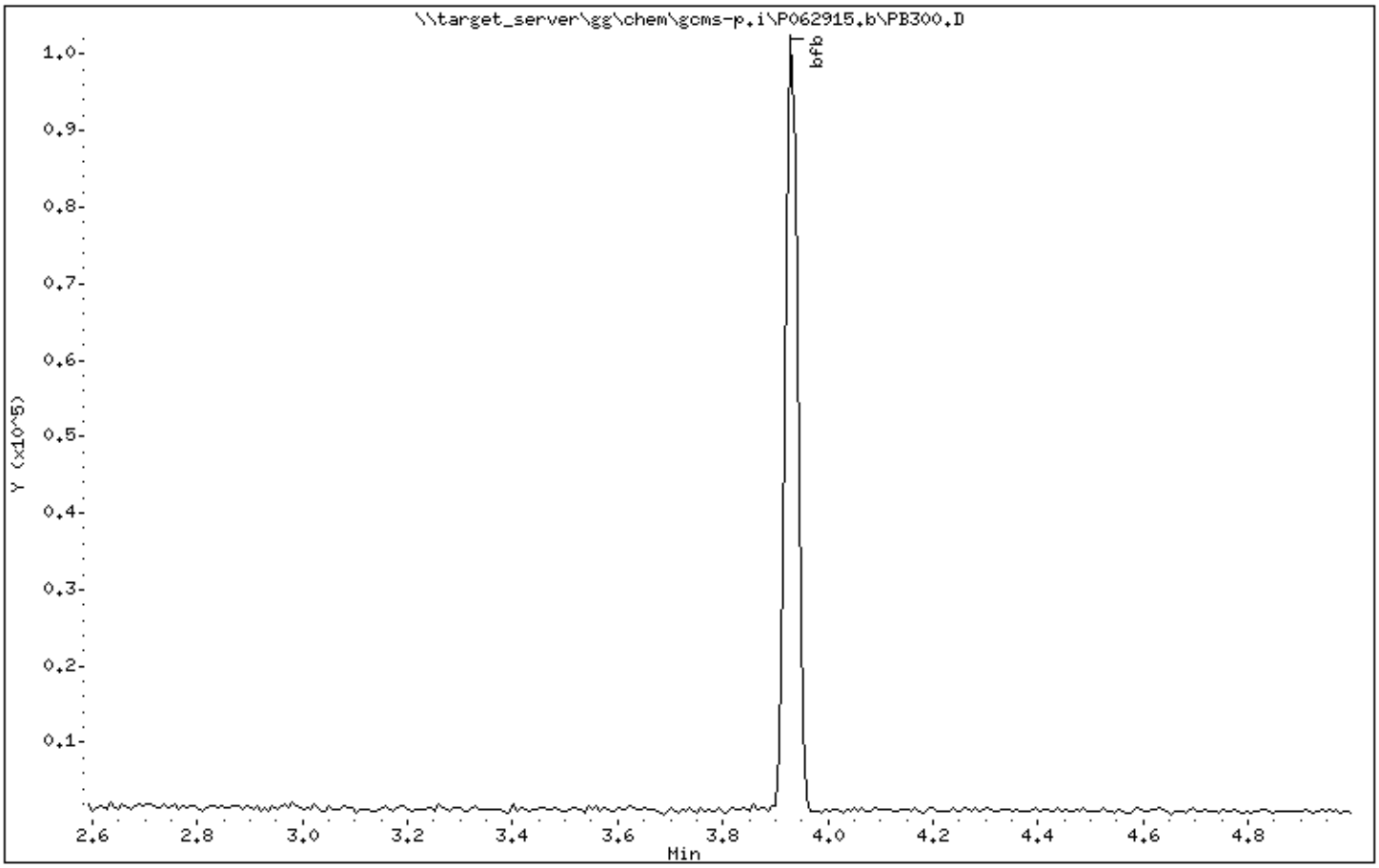
Instrument: gcms-p.i

Sample Info: WG165671-3,SI4557

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\PB300.D

Date : 29-JUN-2015 10:46

Client ID:

Instrument: gcms-p.i

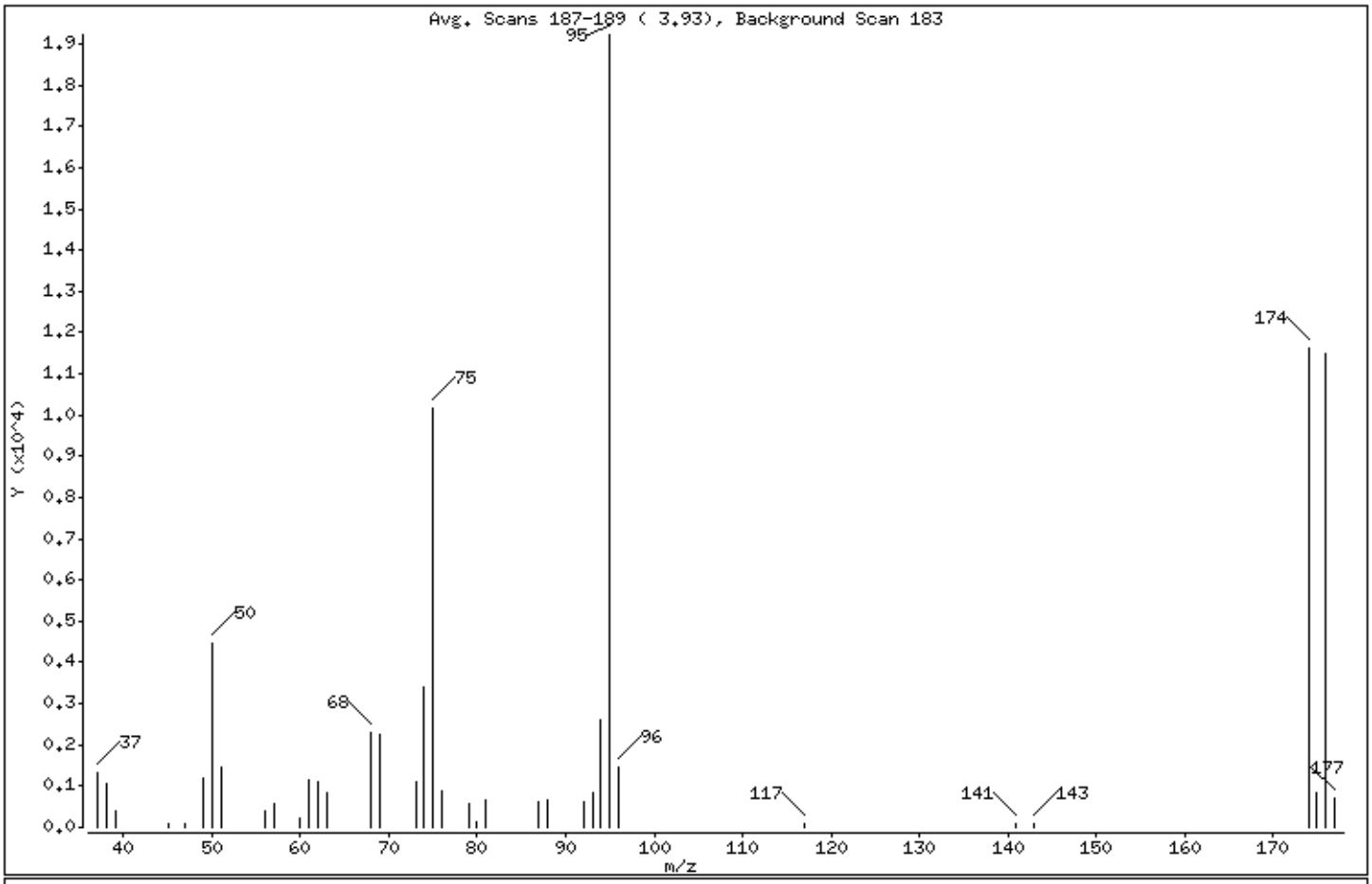
Sample Info: WG165671-3,SI4557

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	23.23
75	30.00 - 60.00% of mass 95	52.94
96	5.00 - 9.00% of mass 95	7.51
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	60.45
175	5.00 - 9.00% of mass 174	4.36 (7.22)
176	95.00 - 101.00% of mass 174	59.81 (98.95)
177	5.00 - 9.00% of mass 176	3.76 (6.29)

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\PB300.D

Date : 29-JUN-2015 10:46

Client ID:

Instrument: gcms-p.i

Sample Info: WG165671-3,SI4557

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: PB300.D
Spectrum: Avg. Scans 187-189 (3.93), Background Scan 183
Location of Maximum: 95.00
Number of points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1340	60.00	221	79.00	561	117.00	102
38.00	1075	61.00	1128	80.00	127	141.00	93
39.00	404	62.00	1119	81.00	662	143.00	83
45.00	94	63.00	836	87.00	636	174.00	11620
47.00	107	68.00	2308	88.00	682	175.00	839
49.00	1213	69.00	2238	92.00	633	176.00	11498
50.00	4466	73.00	1125	93.00	830	177.00	723
51.00	1478	74.00	3388	94.00	2606		
56.00	386	75.00	10178	95.00	19224		
57.00	582	76.00	897	96.00	1443		

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\PB301.D

Date : 30-JUN-2015 09:55

Client ID:

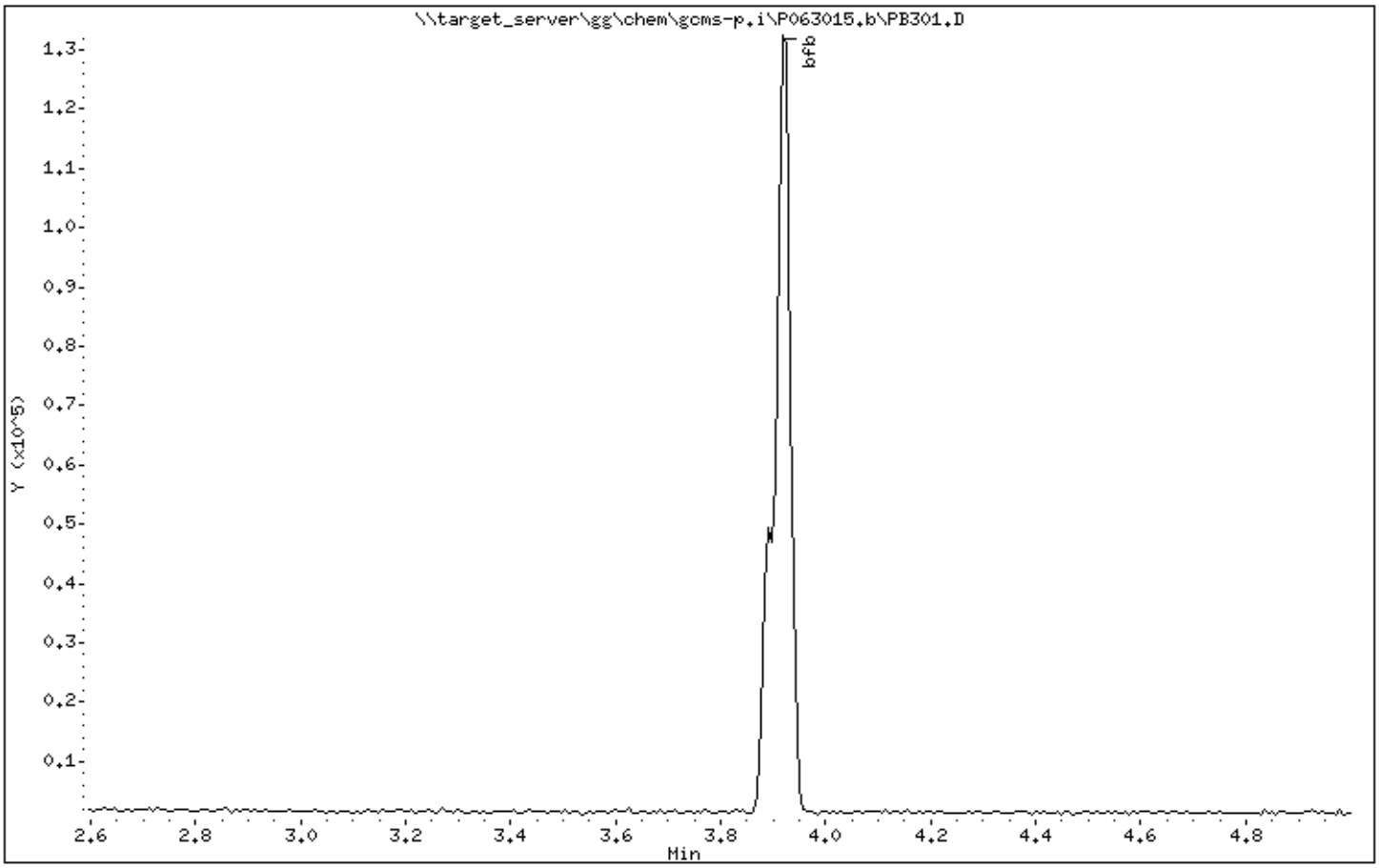
Instrument: gcms-p.i

Sample Info: WG165740-3,SI4557

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\PB301.D

Date : 30-JUN-2015 09:55

Client ID:

Instrument: gcms-p.i

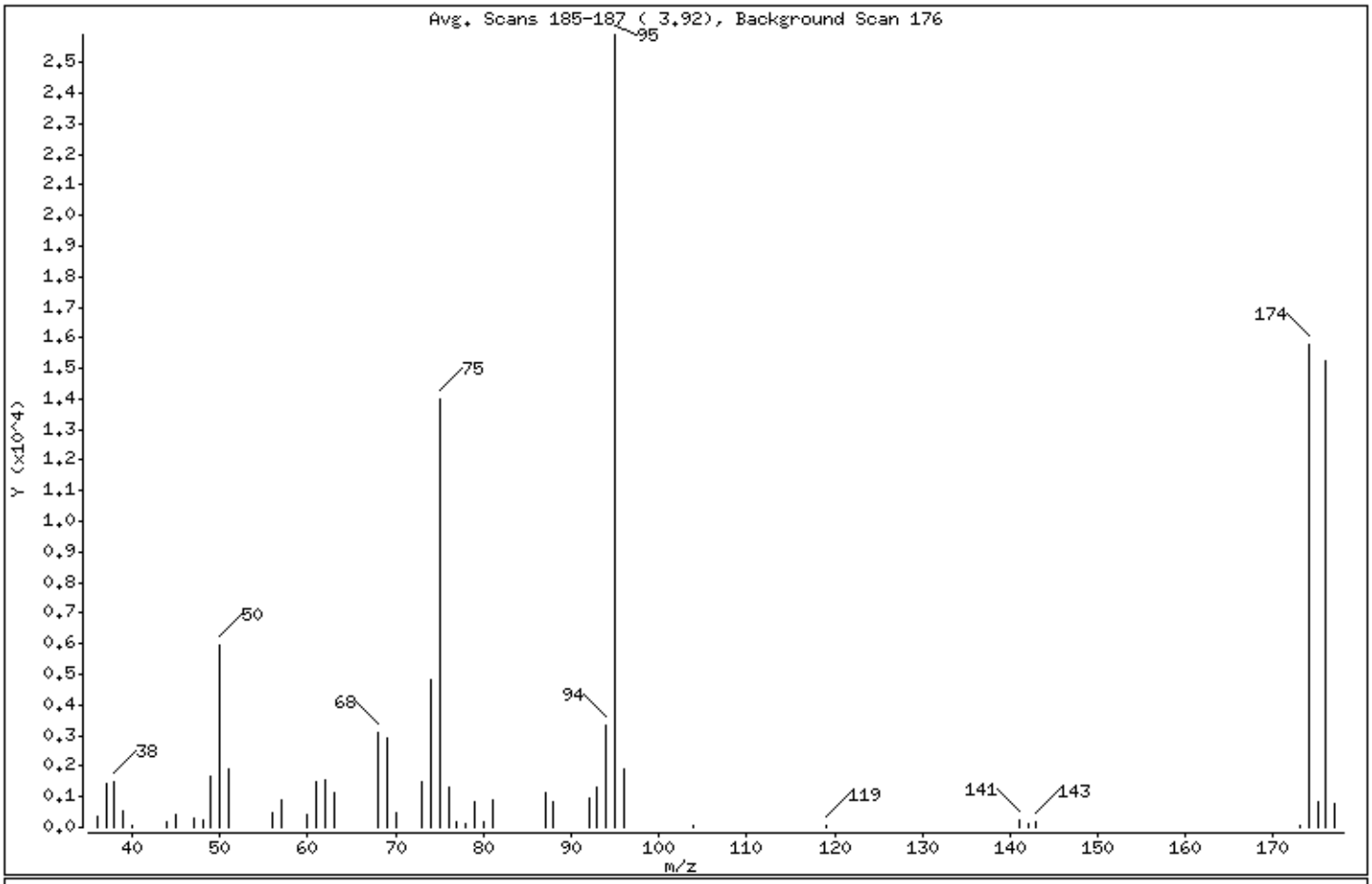
Sample Info: WG165740-3,SI4557

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	23.10
75	30.00 - 60.00% of mass 95	53.98
96	5.00 - 9.00% of mass 95	7.28
173	Less than 2.00% of mass 174	0.32 (0.53)
174	Greater than 50.00% of mass 95	60.83
175	5.00 - 9.00% of mass 174	3.33 (5.48)
176	95.00 - 101.00% of mass 174	58.94 (96.89)
177	5.00 - 9.00% of mass 176	3.02 (5.13)

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\PB301.D

Date : 30-JUN-2015 09:55

Client ID:

Instrument: gcms-p.i

Sample Info: WG165740-3,SI4557

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: PB301.D
Spectrum: Avg. Scans 185-187 (3.92), Background Scan 176
Location of Maximum: 95.00
Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	350	56.00	470	76.00	1339	96.00	1887
37.00	1433	57.00	869	77.00	184	104.00	84
38.00	1480	60.00	406	78.00	104	119.00	88
39.00	509	61.00	1506	79.00	805	141.00	220
40.00	57	62.00	1519	80.00	197	142.00	91
44.00	193	63.00	1130	81.00	889	143.00	184
45.00	425	68.00	3072	87.00	1118	173.00	84
47.00	273	69.00	2898	88.00	843	174.00	15757
48.00	258	70.00	477	92.00	943	175.00	863
49.00	1651	73.00	1514	93.00	1287	176.00	15267
50.00	5983	74.00	4806	94.00	3316	177.00	783
51.00	1894	75.00	13982	95.00	25904		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165671-2
Client ID: Method Blank Sample
Project:
SDG: SI4557
Lab File ID: P1667.D

Sample Date:
Received Date:
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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

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:
Lab ID: WG165671-2
Client ID: Method Blank Sample
Project:
SDG: SI4557
Lab File ID: P1667.D

Sample Date:
Received Date:
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-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
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		95.2	%					
Toluene-d8		103.	%					
1,2-Dichloroethane-d4		104.	%					
Dibromofluoromethane		97.6	%					

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

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1667.D
Report Date: 30-Jun-2015 10:42

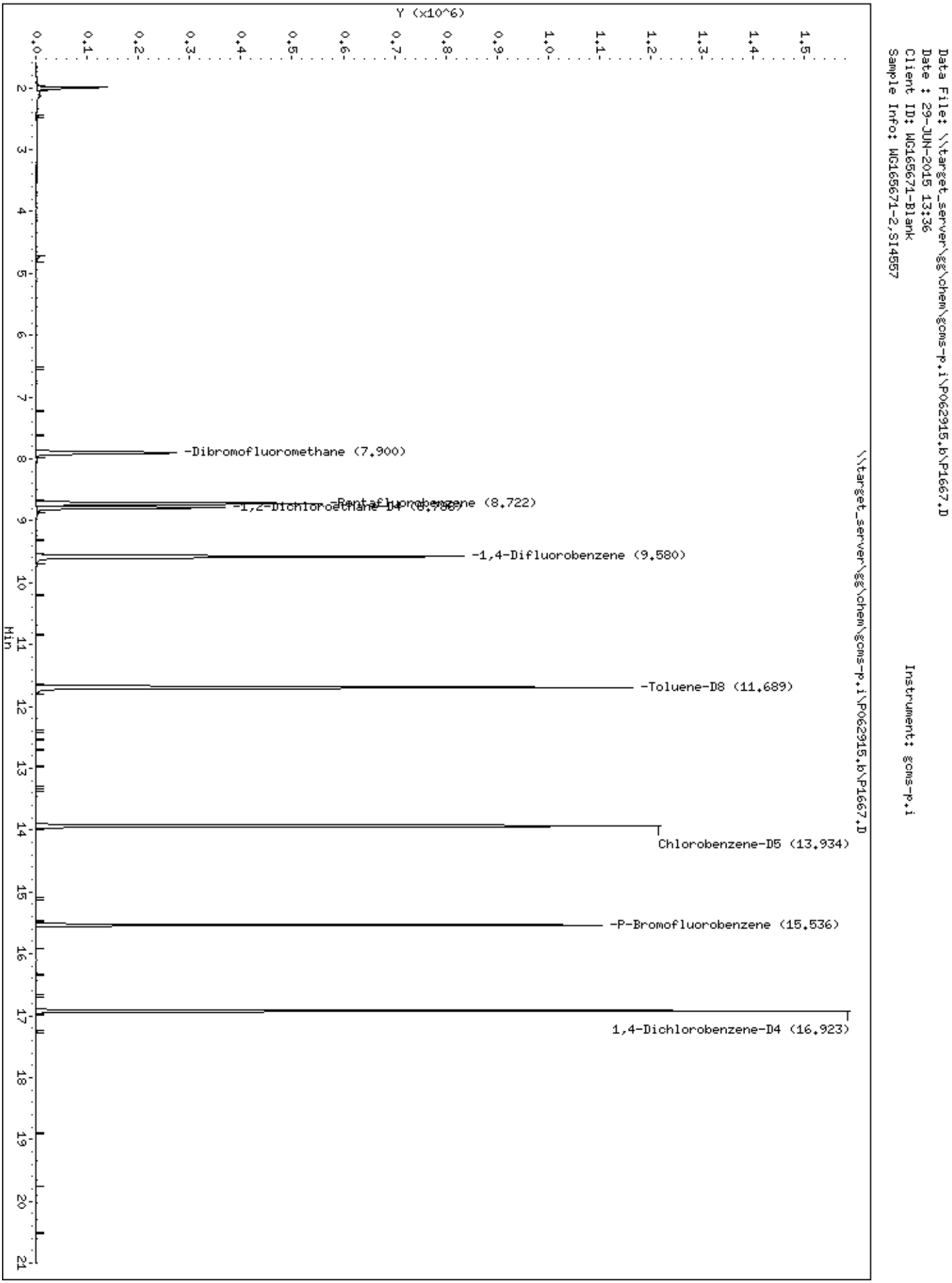
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1667.D
Lab Smp Id: WG165671-2 Client Smp ID: WG165671-Blank
Inj Date : 29-JUN-2015 13:36 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165671-2,SI4557
Misc Info : WG165671,WG165276-4,SI4557-6
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 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	7.899	7.900	(0.906)	196668	48.8059	48.8	
* 42 Pentafluorobenzene	168	8.721	8.715	(1.000)	372538	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.007)	295121	52.1507	52.2	
* 49 1,4-Difluorobenzene	114	9.579	9.573	(1.000)	677550	50.0000		
$ 55 Toluene-D8	98	11.696	11.690	(1.221)	774766	51.6906	51.7	
* 66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	598319	50.0000		
$ 76 P-Bromofluorobenzene	95	15.535	15.537	(1.622)	324715	47.6262	47.6	
* 91 1,4-Dichlorobenzene-D4	152	16.922	16.924	(1.000)	330431	50.0000		


Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1667.D
Date : 29-JUN-2015 13:36
Client ID: WG165671-Blank
Sample Info: WG165671-2,SI4557
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P062915.b\P1667.D
Y (x10^6)
Min
-Dibromofluoromethane (7.900)
-Pentafluorobenzene (8.722)
-1,2-Dichloroethane-D4
-1,4-Difluorobenzene (9.580)
-Toluene-D8 (11.689)
Chlorobenzene-D5 (13.934)
-P-Bromofluorobenzene (15.536)
1,4-Dichlorobenzene-D4 (16.923)

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165740-2
Client ID: Method Blank Sample
Project:
SDG: SI4557
Lab File ID: P1696.D

Sample Date:
Received Date:
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740

Analysis Date: 30-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

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG165740-2
Client ID: Method Blank Sample
Project:
SDG: SI4557
Lab File ID: P1696.D

Sample Date:
Received Date:
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740

Analysis Date: 30-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
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		93.8	%					
Toluene-d8		100.	%					
1,2-Dichloroethane-d4		102.	%					
Dibromofluoromethane		94.4	%					

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Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1696.D
Report Date: 08-Jul-2015 13:31

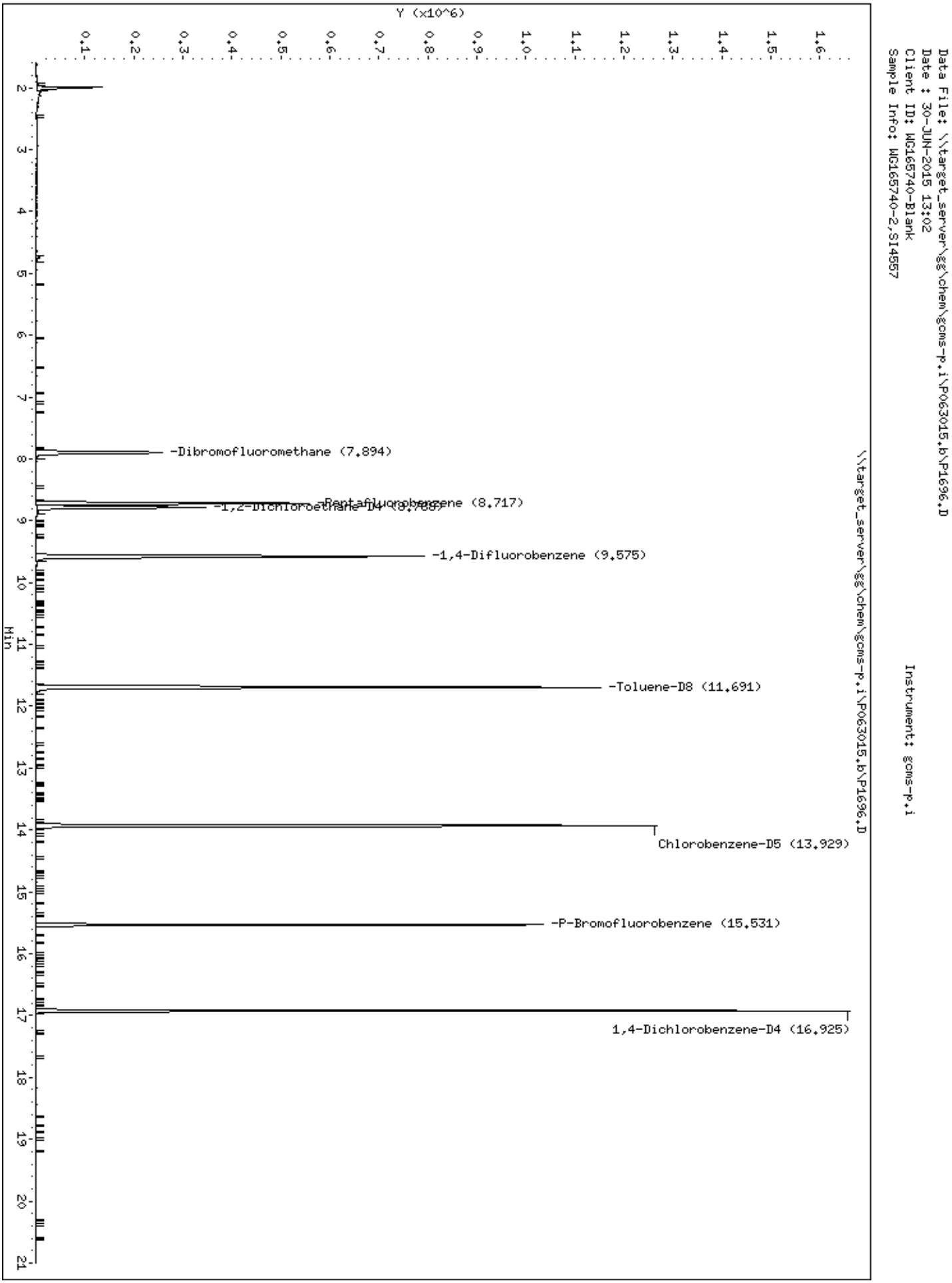
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P063015.b\P1696.D
Lab Smp Id: WG165740-2 Client Smp ID: WG165740-Blank
Inj Date : 30-JUN-2015 13:02 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165740-2,SI4557
Misc Info : WG165740,WG165276-4,SI4557-9
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P063015.b\P826A09.m
Meth Date : 08-Jul-2015 13:28 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: SW8260OLM-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
$ 37 Dibromofluoromethane	113	7.901	7.900	(0.906)	186812	47.2259	47.2	
* 42 Pentafluorobenzene	168	8.716	8.715	(1.000)	365707	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.788	8.787	(1.008)	284549	51.2218	51.2	
* 49 1,4-Difluorobenzene	114	9.581	9.573	(1.000)	654933	50.0000		
$ 55 Toluene-D8	98	11.691	11.690	(1.220)	725517	50.0764	50.1	
* 66 Chlorobenzene-D5	117	13.929	13.935	(1.000)	588578	50.0000		
$ 76 P-Bromofluorobenzene	95	15.530	15.537	(1.621)	309139	46.9075	46.9	
* 91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	323069	50.0000		


Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1696.D
Date : 30-JUN-2015 13:02
Client ID: WG165740-Blank
Sample Info: WG165740-2,SI4557
Instrument: gcms-p.i
\\target_server\gg\chem\gcms-p.i\P063015.b\P1696.D
Y (x10^6)
Min
-Dibromofluoromethane (7.894)
-Pentafluorobenzene (8.717)
-1,2-Dichloroethane D4 (8.788)
-1,4-Difluorobenzene (9.575)
-Toluene-D8 (11.691)
Chlorobenzene-D5 (13.929)
-P-Bromofluorobenzene (15.531)
1,4-Dichlorobenzene-D4 (16.925)

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165671-1
Client ID: LCS
Project:
SDG: SI4557
LCS File ID: P1664.D

Sample Date:
Received Date:
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 08-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	126.	50.0	62.8	ug/L	30-155
Chloromethane	108.	50.0	54.2	ug/L	40-125
Vinyl Chloride	107.	50.0	53.6	ug/L	50-145
Bromomethane	94.4	50.0	47.2	ug/L	30-145
Chloroethane	117.	50.0	58.3	ug/L	60-135
Trichlorofluoromethane	116.	50.0	58.0	ug/L	60-145
1,1-Dichloroethene	107.	50.0	53.5	ug/L	70-130
Carbon Disulfide	103.	50.0	51.6	ug/L	35-160
Freon-113	110.	50.0	55.2	ug/L	73-126
Methylene Chloride	94.8	50.0	47.4	ug/L	55-140
Acetone	92.4	50.0	46.2	ug/L	40-140
trans-1,2-Dichloroethene	109.	50.0	54.5	ug/L	60-140
Methyl tert-butyl Ether	106.	100.	106.	ug/L	65-125
1,1-Dichloroethane	107.	50.0	53.4	ug/L	70-135
cis-1,2-Dichloroethene	92.8	50.0	46.4	ug/L	70-125
Chloroform	101.	50.0	50.5	ug/L	65-135
1,1,1-Trichloroethane	108.	50.0	54.1	ug/L	65-130
2-Butanone	94.4	50.0	47.2	ug/L	30-150
Cyclohexane	103.	50.0	51.5	ug/L	71-133
Carbon Tetrachloride	118.	50.0	58.8	ug/L	65-140
Benzene	102.	50.0	50.9	ug/L	80-120
1,2-Dichloroethane	108.	50.0	53.8	ug/L	70-130
Trichloroethene	98.6	50.0	49.3	ug/L	70-125
1,2-Dichloropropane	101.	50.0	50.3	ug/L	75-125
Bromodichloromethane	104.	50.0	52.2	ug/L	75-120
cis-1,3-Dichloropropene	107.	50.0	53.3	ug/L	70-130
Toluene	100.	50.0	50.0	ug/L	75-120
4-Methyl-2-Pentanone	102.	50.0	51.2	ug/L	60-135
trans-1,3-Dichloropropene	116.	50.0	58.1	ug/L	55-140
1,1,2-Trichloroethane	99.6	50.0	49.8	ug/L	75-125
Tetrachloroethene	109.	50.0	54.7	ug/L	45-150
Dibromochloromethane	107.	50.0	53.5	ug/L	60-135
2-Hexanone	102.	50.0	51.0	ug/L	55-130
Chlorobenzene	103.	50.0	51.6	ug/L	80-120
Ethylbenzene	102.	50.0	51.0	ug/L	75-125

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165671-1
Client ID: LCS
Project:
SDG: SI4557
LCS File ID: P1664.D

Sample Date:
Received Date:
Extract Date: 29-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165671

Analysis Date: 29-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 08-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	106.	150.	159.	ug/L	89-116
Styrene	107.	50.0	53.5	ug/L	65-135
Bromoform	107.	50.0	53.4	ug/L	70-130
Isopropylbenzene	109.	50.0	54.5	ug/L	75-125
1,1,2,2-Tetrachloroethane	98.4	50.0	49.2	ug/L	65-130
1,3-Dichlorobenzene	101.	50.0	50.3	ug/L	75-125
1,4-Dichlorobenzene	102.	50.0	50.8	ug/L	75-125
1,2-Dichlorobenzene	105.	50.0	52.4	ug/L	70-120
1,2,4-Trichlorobenzene	102.	50.0	51.2	ug/L	65-135
Methyl Acetate	97.8	50.0	48.9	ug/L	70-132
Methylcyclohexane	104.	50.0	51.8	ug/L	73-125
o-Xylene	105.	50.0	52.7	ug/L	80-120
M+P-Xylenes	106.	100.	106.	ug/L	75-130
1,2-Dichloroethylene (Total)	101.	100.	101.	ug/L	84-121
1,2-Dibromoethane	103.	50.0	51.5	ug/L	80-120
1,2-Dibromo-3-Chloropropane	112.	50.0	55.8	ug/L	50-130
P-Bromofluorobenzene	91.5				75-120
Toluene-d8	97.1				85-120
1,2-Dichloroethane-d4	95.2				70-120
Dibromofluoromethane	93.8				85-115

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Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1664.D
Report Date: 30-Jun-2015 10:42

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P062915.b\P1664.D
Lab Smp Id: WG165671-1 Client Smp ID: WG165671-LCS
Inj Date : 29-JUN-2015 12:04 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165671-1,SI4557
Misc Info : WG165671,WG165276-4,SI4557-6
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P062915.b\P826A09.m
Meth Date : 30-Jun-2015 10:27 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: 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

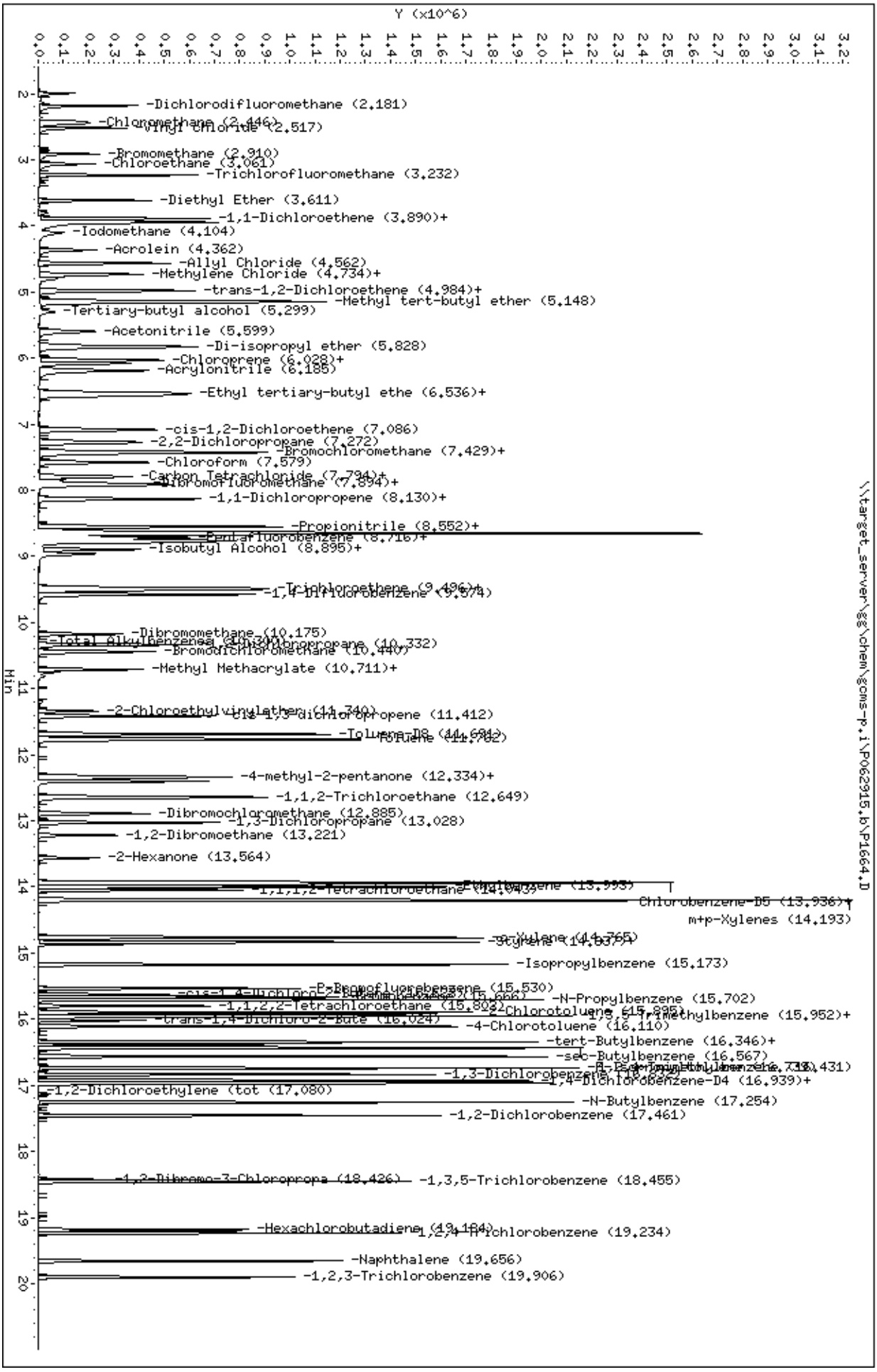
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.181	2.187	(0.250)	329885	62.7714	62.8	
2 Chloromethane	50	2.431	2.437	(0.279)	406936	54.2198	54.2	
3 Vinyl chloride	62	2.517	2.516	(0.289)	294939	53.5713	53.6	
4 Bromomethane	94	2.910	2.909	(0.334)	134606	47.1684	47.2	
5 Chloroethane	64	3.060	3.067	(0.351)	213262	58.2650	58.3	
6 Trichlorofluoromethane	101	3.232	3.231	(0.371)	424459	57.9874	58.0	
7 Diethyl Ether	59	3.611	3.617	(0.414)	225360	50.0923	50.1	
8 Tertiary-butyl alcohol	59	5.298	5.305	(0.608)	82478	217.380	217	
9 1,1-Dichloroethene	96	3.889	3.889	(0.446)	211453	53.5032	53.5	
10 Carbon Disulfide	76	3.947	3.953	(0.453)	747478	51.5841	51.6	
11 Freon-113	151	3.932	3.939	(0.451)	139234	55.2484	55.2	
12 Iodomethane	142	4.104	4.111	(0.471)	162925	40.9173	40.9	
13 Acrolein	56	4.361	4.368	(0.500)	225803	223.873	224	
14 Methylene Chloride	84	4.733	4.733	(0.543)	256110	47.3551	47.4	
15 Acetone	43	4.805	4.804	(0.551)	81375	46.2438	46.2	
16 Isobutyl Alcohol	43	8.959	8.966	(1.028)	149050	851.527	852	
17 trans-1,2-Dichloroethene	96	4.976	4.983	(0.571)	229609	54.5290	54.5	
18 Allyl Chloride	41	4.562	4.568	(0.523)	345630	55.6511	55.6	
19 Methyl tert-butyl ether	73	5.148	5.147	(0.591)	1392111	105.589	106	
20 Acetonitrile	39	5.591	5.598	(0.642)	72446	494.119	494	
21 Di-isopropyl ether	45	5.827	5.827	(0.669)	799034	48.7030	48.7	
22 Chloroprene	53	6.027	6.027	(0.692)	414685	52.1975	52.2	
23 Propionitrile	54	8.616	8.622	(0.989)	345764	490.504	490	
24 Methacrylonitrile	41	8.644	8.651	(0.992)	1448845	506.687	507	

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1664.D
Report Date: 30-Jun-2015 10:42

	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)	436361	53.3518	53.4	
	26 Acrylonitrile	52	6.185	6.191	(0.710)	413574	242.189	242	
	27 Ethyl tertiary-butyl ether	59	6.535	6.535	(0.750)	718079	49.9839	50.0	
	28 Vinyl Acetate	43	6.564	6.570	(0.686)	629407	53.7383	53.7	
	29 cis-1,2-Dichloroethene	96	7.086	7.085	(0.813)	238937	46.3806	46.4	
M	30 1,2-Dichloroethylene (total)	96				468546	100.910	101	
	31 Methyl Methacrylate	41	10.704	10.710	(1.118)	211888	50.7361	50.7	
	32 2,2-Dichloropropane	77	7.272	7.278	(0.834)	332876	56.3903	56.4	
	33 Bromochloromethane	128	7.436	7.435	(0.853)	101874	50.8737	50.9	
	34 Chloroform	83	7.579	7.578	(0.870)	422052	50.5016	50.5	
	35 Carbon Tetrachloride	117	7.793	7.800	(0.814)	291852	58.7622	58.8	
	36 Tetrahydrofuran	42	7.844	7.843	(0.900)	64798	47.2030	47.2	
$	37 Dibromofluoromethane	113	7.894	7.900	(0.906)	195154	46.8798	46.9	
	38 1,1,1-Trichloroethane	97	7.922	7.922	(0.909)	374954	54.0867	54.1	
	39 1,1-Dichloropropene	75	8.130	8.135	(0.849)	331635	54.6105	54.6	
	40 2-Butanone	43	8.115	8.115	(0.931)	103008	47.1526	47.2	
	41 Benzene	78	8.551	8.558	(0.893)	904874	50.9075	50.9	
*	42 Pentafluorobenzene	168	8.716	8.715	(1.000)	384858	50.0000		
	43 Cyclohexane	56	7.422	7.428	(0.852)	387195	51.5138	51.5	
	44 Ethyl Methacrylate	69	10.711	10.710	(1.119)	157961	44.7666	44.8	
$	45 1,2-Dichloroethane-D4	65	8.780	8.787	(1.007)	278343	47.6114	47.6	
	46 Tertiary-amyl methyl ether	73	8.759	8.765	(1.005)	558086	47.1029	47.1	
	47 1,2-Dichloroethane	62	8.895	8.894	(0.929)	352699	53.8434	53.8	
	48 Trichloroethene	95	9.509	9.509	(0.993)	223081	49.3494	49.3	
*	49 1,4-Difluorobenzene	114	9.574	9.573	(1.000)	705442	50.0000		
	50 Dibromomethane	93	10.174	10.174	(1.063)	138390	52.0106	52.0	
	51 1,2-Dichloropropane	63	10.332	10.338	(1.079)	226234	50.2906	50.3	
	52 Bromodichloromethane	83	10.439	10.446	(1.090)	333623	52.1749	52.2	
	53 cis-1,3-dichloropropene	75	11.411	11.418	(1.192)	383993	53.3017	53.3	
	54 1,4-Dioxane	88	10.754	10.753	(1.123)	47343	773.461	773	
$	55 Toluene-D8	98	11.690	11.690	(1.221)	757617	48.5479	48.5	
	56 2-Chloroethylvinylether	63	11.340	11.339	(1.184)	95882	46.7712	46.8	
	57 Toluene	92	11.769	11.768	(1.229)	584408	50.0076	50.0	
	58 4-methyl-2-pentanone	43	12.355	12.355	(1.291)	217794	51.1965	51.2	
	59 Tetrachloroethene	164	12.334	12.333	(0.886)	170276	54.7174	54.7	
	60 trans-1,3-Dichloropropene	75	12.398	12.405	(1.295)	357086	58.1013	58.1	
	61 1,1,2-Trichloroethane	83	12.634	12.634	(1.320)	175352	49.8176	49.8	
	62 Dibromochloromethane	129	12.892	12.891	(0.926)	235396	53.4892	53.5	
	63 1,3-Dichloropropane	76	13.027	13.027	(0.935)	385163	49.8233	49.8	
	64 1,2-Dibromoethane	107	13.220	13.220	(1.381)	209645	51.5382	51.5	
	65 2-Hexanone	43	13.564	13.563	(0.974)	148941	50.9962	51.0	
*	66 Chlorobenzene-D5	117	13.928	13.935	(1.000)	626717	50.0000		
	67 Chlorobenzene	112	13.950	13.956	(1.002)	629925	51.5644	51.6	
	152 1-Chlorohexane	91	13.935	13.935	(1.000)	330378	48.5894	48.6	
	68 Ethylbenzene	106	14.000	13.999	(1.005)	340470	51.0178	51.0	
	69 1,1,1,2-Tetrachloroethane	131	14.043	14.049	(1.008)	228394	55.4774	55.5	
M	70 Xylenes (total)	106				1273103	158.973	159	
	71 m+p-Xylenes	106	14.193	14.199	(1.019)	850619	106.223	106	
	72 o-Xylene	106	14.765	14.764	(1.060)	422484	52.7499	52.7	
	73 Styrene	104	14.836	14.836	(1.065)	733423	53.5207	53.5	
	74 Bromoform	173	14.865	14.872	(1.067)	142052	53.4031	53.4	
	75 Isopropylbenzene	105	15.172	15.172	(0.896)	1132165	54.5135	54.5	
$	76 P-Bromofluorobenzene	95	15.530	15.537	(1.622)	324938	45.7746	45.8	
	77 cis-1,4-Dichloro-2-Butene	53	15.623	15.622	(0.923)	110406	48.7141	48.7	

Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1664.D
Report Date: 30-Jun-2015 10:42

	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	16.023	16.023	(0.947)	88591	53.2255	53.2	
	79 Bromobenzene	156	15.666	15.665	(0.926)	263209	50.0135	50.0	
	80 N-Propylbenzene	91	15.702	15.701	(0.928)	1383882	56.0065	56.0	
	81 1,1,2,2-Tetrachloroethane	83	15.802	15.801	(0.934)	303561	49.1800	49.2	
	82 1,3,5-Trimethylbenzene	105	15.952	15.951	(0.943)	967115	52.8683	52.9	
	83 2-Chlorotoluene	91	15.895	15.894	(0.939)	846130	53.1775	53.2	
	84 1,2,3-Trichloropropane	75	15.966	15.966	(0.943)	244001	51.5697	51.6	
	85 4-Chlorotoluene	91	16.109	16.109	(0.952)	892725	53.4203	53.4	
	86 tert-Butylbenzene	119	16.345	16.344	(0.966)	960896	54.8794	54.9	
	87 Pentachloroethane	117	16.374	16.373	(0.967)	187573	51.8251	51.8	
	88 1,2,4-Trimethylbenzene	105	16.431	16.430	(0.971)	1018379	55.8291	55.8	
	89 P-Isopropyltoluene	119	16.738	16.745	(0.989)	1063953	53.8968	53.9	
	90 1,3-Dichlorobenzene	146	16.831	16.838	(0.995)	536140	50.2824	50.3	
*	91 1,4-Dichlorobenzene-D4	152	16.924	16.924	(1.000)	345229	50.0000		
	92 1,4-Dichlorobenzene	146	16.946	16.945	(1.001)	552929	50.7873	50.8	
	93 N-Butylbenzene	91	17.253	17.260	(1.019)	1006658	54.0510	54.0	
	94 sec-Butylbenzene	105	16.567	16.565	(0.979)	1219665	54.0231	54.0	
	95 1,2-Dichlorobenzene	146	17.460	17.460	(1.032)	535857	52.3917	52.4	
	96 1,2-Dibromo-3-Chloropropane	75	18.426	18.425	(1.089)	62168	55.7805	55.8	
	97 1,3,5-Trichlorobenzene	180	18.454	18.461	(1.090)	358347	50.8319	50.8	
	98 Hexachlorobutadiene	225	19.191	19.190	(1.134)	121740	53.7449	53.7	
	99 1,2,4-Trichlorobenzene	180	19.234	19.233	(1.136)	336458	51.1604	51.2	
	100 1,2,3-Trimethylbenzene	105	16.967	16.974	(1.003)	1000906	52.6851	52.7	
	101 Naphthalene	128	19.656	19.655	(1.161)	801522	50.9806	51.0	
	102 1,2,3-Trichlorobenzene	180	19.906	19.905	(1.176)	272454	53.4431	53.4	
	103 Methyl Acetate	43	4.998	4.997	(0.573)	190624	48.9177	48.9	
	104 Methylcyclohexane	83	9.481	9.480	(1.088)	377550	51.8151	51.8	
M	153 Total Alkylbenzenes	100				7620548	381.554	382	


Data File: \\target_server\gg\chem\gcms-p.i\P062915.b\P1664.D
Date : 29-JUN-2015 12:04
Client ID: WG165671-LCS
Sample Info: WG165671-1,SI4557
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 (2.910)
-Chloroethane (3.061)
-Trichlorofluoromethane (3.232)
-Diethyl Ether (3.611)
-1,1-Dichloroethene (3.890)+
-Iodomethane (4.104)
-Acrolein (4.362)
-Allyl Chloride (4.562)
-Methylene Chloride (4.734)+
-trans-1,2-Dichloroethene (4.984)+
-Methyl tert-butyl ether (5.148)
-Tertiary-butyl alcohol (5.299)
-Acetonitrile (5.599)
-Di-isopropyl ether (5.828)
-Chloroprene (6.028)+
-Acrylonitrile (6.185)
-Ethyl tertiary-butyl ethe (6.536)+
-cis-1,2-Dichloroethene (7.086)
-2,2-Dichloropropane (7.272)
-Bromochloromethane (7.429)+
-Chloroform (7.579)
-Carbon Tetrachloride (7.794)+
-Dibromofluoromethane (7.894)+
-1,1-Dichloropropene (8.130)+
-Propionitrile (8.552)+
-Pentafluorobenzene (8.716)+
-Isobutyl Alcohol (8.895)+
-Trichloroethene (9.496)+
-1,4-Difluorobenzene (9.574)
-Dibromomethane (10.175)
-Total Alkylbenzenes (10.300)
-1,2-Dibromopropane (10.332)
-Bromodichloromethane (10.440)
-Methyl Methacrylate (10.711)+
-2-Chloroethyl vinylether (11.340)
-cis-1,3-dichloropropene (11.412)
-Toluene-D8 (11.694)
-Toluene (11.782)
-4-methyl-2-pentanone (12.334)+
-1,1,2-Trichloroethane (12.649)
-Dibromochloromethane (12.885)
-1,3-Dichloropropane (13.028)
-1,2-Dibromoethane (13.221)
-2-Hexanone (13.564)
-Ethylbenzene (13.993)
-1,1,1,2-Tetrachloroethane (14.043)
-Chlorobenzene-D5 (13.936)+
m+p-Xylenes (14.193)
-o-Xylene (14.765)
-Styrene (14.837)+
-Isopropylbenzene (15.173)
-P-Bromofluorobenzene (15.530)
-cis-1,4-Dichloro-2-Butene (15.666)
-N-Propylbenzene (15.702)
-1,1,2,2-Tetrachloroethane (15.892)
-2-Chlorotoluene (15.895)
-1,3,5-Trimethylbenzene (15.952)+
-trans-1,4-Dichloro-2-Bute (16.024)
-4-Chlorotoluene (16.110)
-tert-Butylbenzene (16.346)+
-sec-Butylbenzene (16.567)
-1,3-Dichlorobenzene (16.731)
-1,4-Dichlorobenzene-D4 (16.939)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.254)
-1,2-Dichlorobenzene (17.461)
-1,2-Dibromo-3-Chloropropa (18.426)
-1,3,5-Trichlorobenzene (18.455)
-Hexachlorobutadiene (19.184)
-1,2,4-Trichlorobenzene (19.234)
-Naphthalene (19.656)
-1,2,3-Trichlorobenzene (19.906)
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Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165740-1
Client ID: LCS
Project:
SDG: SI4557
LCS File ID: P1693.D

Sample Date:
Received Date:
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740

Analysis Date: 30-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 08-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	115.	50.0	57.4	ug/L	30-155
Chloromethane	102.	50.0	50.8	ug/L	40-125
Vinyl Chloride	100.	50.0	50.1	ug/L	50-145
Bromomethane	84.6	50.0	42.3	ug/L	30-145
Chloroethane	113.	50.0	56.6	ug/L	60-135
Trichlorofluoromethane	113.	50.0	56.3	ug/L	60-145
1,1-Dichloroethene	104.	50.0	51.8	ug/L	70-130
Carbon Disulfide	103.	50.0	51.6	ug/L	35-160
Freon-113	101.	50.0	50.7	ug/L	73-126
Methylene Chloride	95.2	50.0	47.6	ug/L	55-140
Acetone	91.6	50.0	45.8	ug/L	40-140
trans-1,2-Dichloroethene	105.	50.0	52.4	ug/L	60-140
Methyl tert-butyl Ether	96.1	100.	96.1	ug/L	65-125
1,1-Dichloroethane	105.	50.0	52.3	ug/L	70-135
cis-1,2-Dichloroethene	90.4	50.0	45.2	ug/L	70-125
Chloroform	102.	50.0	50.8	ug/L	65-135
1,1,1-Trichloroethane	107.	50.0	53.7	ug/L	65-130
2-Butanone	91.2	50.0	45.6	ug/L	30-150
Cyclohexane	103.	50.0	51.6	ug/L	71-133
Carbon Tetrachloride	115.	50.0	57.7	ug/L	65-140
Benzene	100.	50.0	50.1	ug/L	80-120
1,2-Dichloroethane	108.	50.0	54.1	ug/L	70-130
Trichloroethene	102.	50.0	50.9	ug/L	70-125
1,2-Dichloropropane	98.6	50.0	49.3	ug/L	75-125
Bromodichloromethane	106.	50.0	53.1	ug/L	75-120
cis-1,3-Dichloropropene	106.	50.0	52.9	ug/L	70-130
Toluene	100.	50.0	50.0	ug/L	75-120
4-Methyl-2-Pentanone	102.	50.0	51.2	ug/L	60-135
trans-1,3-Dichloropropene	114.	50.0	57.2	ug/L	55-140
1,1,2-Trichloroethane	97.4	50.0	48.7	ug/L	75-125
Tetrachloroethene	107.	50.0	53.5	ug/L	45-150
Dibromochloromethane	108.	50.0	54.0	ug/L	60-135
2-Hexanone	103.	50.0	51.4	ug/L	55-130
Chlorobenzene	103.	50.0	51.3	ug/L	80-120
Ethylbenzene	104.	50.0	52.0	ug/L	75-125

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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG165740-1
Client ID: LCS
Project:
SDG: SI4557
LCS File ID: P1693.D

Sample Date:
Received Date:
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740

Analysis Date: 30-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 08-JUL-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	106.	150.	159.	ug/L	89-116
Styrene	108.	50.0	53.9	ug/L	65-135
Bromoform	110.	50.0	54.8	ug/L	70-130
Isopropylbenzene	109.	50.0	54.7	ug/L	75-125
1,1,2,2-Tetrachloroethane	95.6	50.0	47.8	ug/L	65-130
1,3-Dichlorobenzene	101.	50.0	50.7	ug/L	75-125
1,4-Dichlorobenzene	102.	50.0	50.8	ug/L	75-125
1,2-Dichlorobenzene	103.	50.0	51.5	ug/L	70-120
1,2,4-Trichlorobenzene	100.	50.0	50.0	ug/L	65-135
Methyl Acetate	84.4	50.0	42.2	ug/L	70-132
Methylcyclohexane	100.	50.0	50.0	ug/L	73-125
o-Xylene	106.	50.0	52.9	ug/L	80-120
M+P-Xylenes	106.	100.	106.	ug/L	75-130
1,2-Dichloroethylene (Total)	97.6	100.	97.6	ug/L	84-121
1,2-Dibromoethane	102.	50.0	51.0	ug/L	80-120
1,2-Dibromo-3-Chloropropane	108.	50.0	54.0	ug/L	50-130
P-Bromofluorobenzene	94.6				75-120
Toluene-d8	96.8				85-120
1,2-Dichloroethane-d4	95.5				70-120
Dibromofluoromethane	94.0				85-115

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Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1693.D
Report Date: 08-Jul-2015 13:31

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P063015.b\P1693.D
Lab Smp Id: WG165740-1 Client Smp ID: WG165740-LCS
Inj Date : 30-JUN-2015 11:27 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165740-1,SI4557
Misc Info : WG165740,WG165276-4,SI4557-9
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P063015.b\P826A09.m
Meth Date : 08-Jul-2015 13:28 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: SW8260OLM-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	2.187	2.187	(0.251)	296052	57.3860	57.4	
2 Chloromethane	50	2.437	2.437	(0.279)	374558	50.8381	50.8	
3 Vinyl chloride	62	2.516	2.516	(0.288)	270848	50.1146	50.1	
4 Bromomethane	94	2.909	2.909	(0.334)	118119	42.2901	42.3	
5 Chloroethane	64	3.066	3.067	(0.352)	205363	56.6238	56.6	
6 Trichlorofluoromethane	101	3.231	3.231	(0.370)	404386	56.2772	56.3	
7 Diethyl Ether	59	3.617	3.617	(0.415)	199394	45.1487	45.1	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.608)	66255	178.455	178	
9 1,1-Dichloroethene	96	3.896	3.889	(0.447)	200995	51.8071	51.8	
10 Carbon Disulfide	76	3.953	3.953	(0.453)	733630	51.5743	51.6	
11 Freon-113	151	3.939	3.939	(0.452)	125340	50.6644	50.7	
12 Iodomethane	142	4.110	4.111	(0.471)	151733	38.7153	38.7	
13 Acrolein	56	4.368	4.368	(0.501)	206887	208.950	209	
14 Methylene Chloride	84	4.740	4.733	(0.543)	252449	47.5531	47.6	
15 Acetone	43	4.811	4.804	(0.552)	79121	45.8029	45.8	
16 Isobutyl Alcohol	43	8.965	8.966	(1.028)	130255	760.921	761	
17 trans-1,2-Dichloroethene	96	4.983	4.983	(0.571)	216456	52.3656	52.4	
18 Allyl Chloride	41	4.568	4.568	(0.524)	305569	50.1199	50.1	
19 Methyl tert-butyl ether	73	5.154	5.147	(0.591)	1244206	96.1341	96.1	
20 Acetonitrile	39	5.598	5.598	(0.642)	64981	451.484	451	
21 Di-isopropyl ether	45	5.834	5.827	(0.669)	754810	46.8669	46.9	
22 Chloroprene	53	6.034	6.027	(0.692)	396449	50.8343	50.8	
23 Propionitrile	54	8.622	8.622	(0.989)	326855	472.342	472	
24 Methacrylonitrile	41	8.651	8.651	(0.992)	1389407	494.978	495	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1693.D
Report Date: 08-Jul-2015 13:31

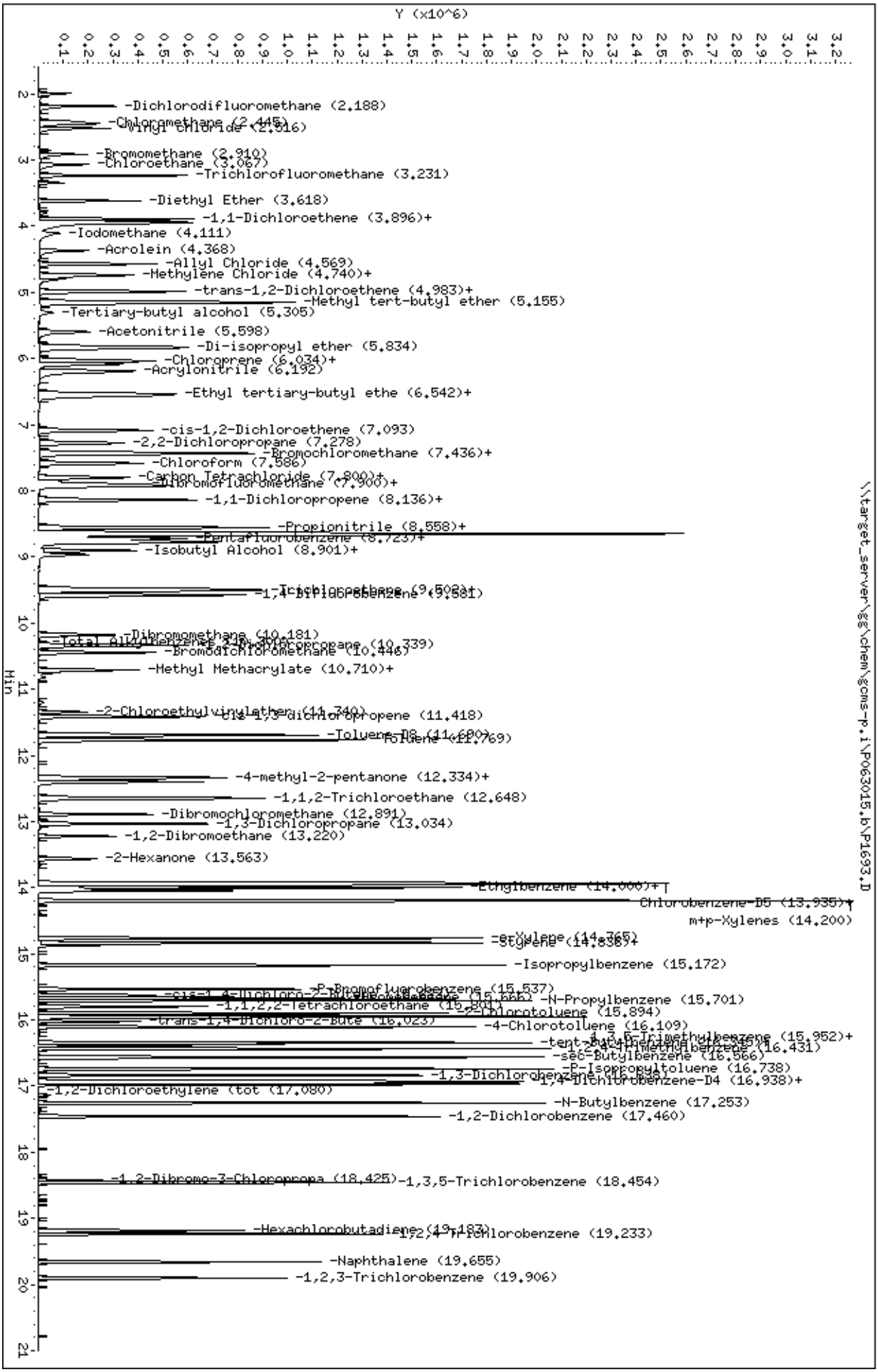
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	6.084	6.084	(0.698)	419868	52.2943	52.3	
	26	Acrylonitrile	52	6.191	6.191	(0.710)	388762	231.912	232	
	27	Ethyl tertiary-butyl ether	59	6.541	6.535	(0.750)	645682	45.7841	45.8	
	28	Vinyl Acetate	43	6.570	6.570	(0.686)	577372	50.5200	50.5	
	29	cis-1,2-Dichloroethene	96	7.085	7.085	(0.812)	228617	45.2064	45.2	
M	30	1,2-Dichloroethylene (total)	96				445073	97.5720	97.6	
	31	Methyl Methacrylate	41	10.710	10.710	(1.118)	203064	49.8310	49.8	
	32	2,2-Dichloropropane	77	7.278	7.278	(0.834)	271278	46.8139	46.8	
	33	Bromochloromethane	128	7.442	7.435	(0.853)	94793	48.2219	48.2	
	34	Chloroform	83	7.585	7.578	(0.870)	416585	50.7786	50.8	
	35	Carbon Tetrachloride	117	7.800	7.800	(0.814)	279712	57.7167	57.7	
	36	Tetrahydrofuran	42	7.850	7.843	(0.900)	61342	45.5202	45.5	
$	37	Dibromofluoromethane	113	7.900	7.900	(0.906)	192123	47.0139	47.0	
	38	1,1,1-Trichloroethane	97	7.929	7.922	(0.909)	365181	53.6611	53.7	
	39	1,1-Dichloropropene	75	8.136	8.135	(0.849)	321043	54.1794	54.2	
	40	2-Butanone	43	8.122	8.115	(0.931)	97891	45.6474	45.6	
	41	Benzene	78	8.558	8.558	(0.893)	868307	50.0636	50.1	
*	42	Pentafluorobenzene	168	8.722	8.715	(1.000)	377800	50.0000		
	43	Cyclohexane	56	7.428	7.428	(0.852)	380656	51.5899	51.6	
	44	Ethyl Methacrylate	69	10.710	10.710	(1.118)	149492	43.4269	43.4	
$	45	1,2-Dichloroethane-D4	65	8.787	8.787	(1.007)	273945	47.7345	47.7	
	46	Tertiary-amyl methyl ether	73	8.765	8.765	(1.005)	510899	43.9259	43.9	
	47	1,2-Dichloroethane	62	8.901	8.894	(0.929)	345970	54.1279	54.1	
	48	Trichloroethene	95	9.509	9.509	(0.993)	224382	50.8701	50.9	
*	49	1,4-Difluorobenzene	114	9.580	9.573	(1.000)	688345	50.0000		
	50	Dibromomethane	93	10.181	10.174	(1.063)	131386	50.6048	50.6	
	51	1,2-Dichloropropane	63	10.338	10.338	(1.079)	216413	49.3023	49.3	
	52	Bromodichloromethane	83	10.445	10.446	(1.090)	331295	53.0977	53.1	
	53	cis-1,3-dichloropropene	75	11.418	11.418	(1.192)	372075	52.9302	52.9	
	54	1,4-Dioxane	88	10.753	10.753	(1.122)	34906	584.437	584	
$	55	Toluene-D8	98	11.690	11.690	(1.220)	736743	48.3829	48.4	
	56	2-Chloroethylvinylether	63	11.339	11.339	(1.184)	83032	37.7077	37.7	
	57	Toluene	92	11.768	11.768	(1.228)	570131	49.9976	50.0	
	58	4-methyl-2-pentanone	43	12.355	12.355	(1.290)	212351	51.1568	51.2	
	59	Tetrachloroethene	164	12.333	12.333	(0.885)	163107	53.4728	53.5	
	60	trans-1,3-Dichloropropene	75	12.405	12.405	(1.295)	343315	57.2481	57.2	
	61	1,1,2-Trichloroethane	83	12.641	12.634	(1.319)	167364	48.7292	48.7	
	62	Dibromochloromethane	129	12.891	12.891	(0.925)	232968	54.0073	54.0	
	63	1,3-Dichloropropane	76	13.034	13.027	(0.935)	374944	49.4815	49.5	
	64	1,2-Dibromoethane	107	13.220	13.220	(1.380)	202349	50.9801	51.0	
	65	2-Hexanone	43	13.563	13.563	(0.973)	147129	51.3938	51.4	
*	66	Chlorobenzene-D5	117	13.935	13.935	(1.000)	614303	50.0000		
	67	Chlorobenzene	112	13.956	13.956	(1.002)	614523	51.3202	51.3	
	152	1-Chlorohexane	91	13.935	13.935	(1.000)	322674	48.4153	48.4	
	68	Ethylbenzene	106	13.999	13.999	(1.005)	339953	51.9697	52.0	
	69	1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	221413	54.8685	54.9	
M	70	Xylenes (total)	106				1251168	159.391	159	
	71	m+p-Xylenes	106	14.199	14.199	(1.019)	835893	106.494	106	
	72	o-Xylene	106	14.764	14.764	(1.060)	415275	52.8976	52.9	
	73	Styrene	104	14.836	14.836	(1.065)	724069	53.9059	53.9	
	74	Bromoform	173	14.864	14.872	(1.067)	142811	54.7734	54.8	
	75	Isopropylbenzene	105	15.172	15.172	(0.896)	1118922	54.6840	54.7	
$	76	P-Bromofluorobenzene	95	15.536	15.537	(1.622)	327818	47.3273	47.3	
	77	cis-1,4-Dichloro-2-Butene	53	15.622	15.622	(0.923)	105458	47.2211	47.2	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1693.D
Report Date: 08-Jul-2015 13:31

	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	16.023	16.023	(0.947)	82633	50.3906	50.4	
	79 Bromobenzene	156	15.665	15.665	(0.926)	261034	50.3443	50.3	
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	1369495	56.2556	56.2	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	290403	47.7540	47.8	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	954363	52.9538	53.0	
	83 2-Chlorotoluene	91	15.894	15.894	(0.939)	838106	53.4634	53.5	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	236297	50.6906	50.7	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	878851	53.3790	53.4	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	954317	55.3212	55.3	
	87 Pentachloroethane	117	16.373	16.373	(0.967)	185213	51.9407	51.9	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	1004333	55.8849	55.9	
	89 P-Isopropyltoluene	119	16.738	16.745	(0.989)	1059844	54.4940	54.5	
	90 1,3-Dichlorobenzene	146	16.838	16.838	(0.995)	532864	50.7248	50.7	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	340127	50.0000		
	92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	545376	50.8450	50.8	
	93 N-Butylbenzene	91	17.252	17.260	(1.019)	1001428	54.5768	54.6	
	94 sec-Butylbenzene	105	16.566	16.565	(0.979)	1223026	54.9845	55.0	
	95 1,2-Dichlorobenzene	146	17.460	17.460	(1.032)	519190	51.5236	51.5	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	59270	53.9780	54.0	
	97 1,3,5-Trichlorobenzene	180	18.461	18.461	(1.091)	341922	49.2296	49.2	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	121261	54.3365	54.3	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	324299	50.0513	50.0	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	970720	51.8627	51.9	
	101 Naphthalene	128	19.655	19.655	(1.161)	743264	48.0601	48.1	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	254789	50.7277	50.7	
	103 Methyl Acetate	43	5.004	4.997	(0.574)	161523	42.2242	42.2	
	104 Methylcyclohexane	83	9.487	9.480	(1.088)	357517	49.9824	50.0	
M	153 Total Alkylbenzenes	100				7566806	384.471	384	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1693.D
Date : 30-JUN-2015 11:27
Client ID: WG165740-LCS
Sample Info: WG165740-1,SI4557
Purge Volume: 5.0
Column phase: RTX-VMS

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



Katahdin
ANALYTICAL SERVICES

Cert No E87604

MS/MSD Recovery Report

MS ID: WG165740-7
MSD ID: WG165740-8
Sample ID: SI4557-3
Client ID: 159-062415-258-260
Project:
SDG: SI4557
MS File ID: P1711.D

Received Date:
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740
Report Date: 08-JUL-15
MSD File ID: P1712.D

Analysis Date: 30-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	50.0	50.0	ug/L	U1.0	37.4	58.6	74.8	117.	44*	30	30-155
Chloromethane	50.0	50.0	ug/L	U1.0	33.5	52.8	67.0	106.	45*	30	40-125
Vinyl Chloride	50.0	50.0	ug/L	U1.0	32.4	51.0	64.8	102.	45*	30	50-145
Bromomethane	50.0	50.0	ug/L	U1.0	27.7	43.7	55.4	87.4	45*	30	30-145
Chloroethane	50.0	50.0	ug/L	UM1.0	28.1	51.8	56.2*	104.	59*	30	60-135
Trichlorofluoromethane	50.0	50.0	ug/L	U1.0	34.9	55.1	69.8	110.	45*	30	60-145
1,1-Dichloroethene	50.0	50.0	ug/L	JM0.83	33.9	51.5	66.1*	101.	41*	30	70-130
Carbon Disulfide	50.0	50.0	ug/L	U0.50	32.5	51.2	65.0	102.	45*	30	35-160
Freon-113	50.0	50.0	ug/L	8.7	50.6	53.2	83.8	89.0	5	30	73-126
Methylene Chloride	50.0	50.0	ug/L	U2.5	28.5	45.6	57.0	91.2	46*	30	55-140
Acetone	50.0	50.0	ug/L	J4.7	35.4	51.8	61.4	94.2	38*	30	40-140
trans-1,2-Dichloroethene	50.0	50.0	ug/L	U0.50	32.3	51.4	64.6	103.	46*	30	60-140
Methyl tert-butyl Ether	100.	100.	ug/L	U0.50	67.9	88.1	67.9	88.1	26	30	65-125
1,1-Dichloroethane	50.0	50.0	ug/L	M1.6	34.6	52.3	66.0*	101.	41*	30	70-135
cis-1,2-Dichloroethene	50.0	50.0	ug/L	M1.6	29.7	44.0	56.2*	84.8	39*	30	70-125
Chloroform	50.0	50.0	ug/L	JM0.43	31.0	48.5	61.1*	96.1	44*	30	65-135
1,1,1-Trichloroethane	50.0	50.0	ug/L	U0.50	33.4	51.9	66.8	104.	43*	30	65-130
2-Butanone	50.0	50.0	ug/L	U2.5	30.8	46.8	61.6	93.6	41*	30	30-150
Cyclohexane	50.0	50.0	ug/L	UM0.50	33.0	50.3	66.0*	101.	42*	30	71-133
Carbon Tetrachloride	50.0	50.0	ug/L	U0.50	36.5	57.0	73.0	114.	44*	30	65-140
Benzene	50.0	50.0	ug/L	UM0.50	30.5	48.2	61.0*	96.4	45*	30	80-120
1,2-Dichloroethane	50.0	50.0	ug/L	UM0.50	33.8	51.8	67.6*	104.	42*	30	70-130
Trichloroethene	50.0	50.0	ug/L	M25	55.0	71.2	60.4*	92.8	26	30	70-125
1,2-Dichloropropane	50.0	50.0	ug/L	UM0.50	30.0	47.5	60.0*	95.0	45*	30	75-125
Bromodichloromethane	50.0	50.0	ug/L	UM0.50	31.3	50.2	62.6*	100.	46*	30	75-120
cis-1,3-Dichloropropene	50.0	50.0	ug/L	UM0.50	30.2	49.2	60.4*	98.4	48*	30	70-130
Toluene	50.0	50.0	ug/L	UM0.50	29.9	47.8	59.8*	95.6	46*	30	75-120
4-Methyl-2-Pentanone	50.0	50.0	ug/L	U2.5	33.0	54.0	66.0	108.	48*	30	60-135
trans-1,3-Dichloropropene	50.0	50.0	ug/L	U0.50	33.6	53.3	67.2	107.	45*	30	55-140
1,1,2-Trichloroethane	50.0	50.0	ug/L	UM0.50	29.4	46.2	58.8*	92.4	44*	30	75-125
Tetrachloroethene	50.0	50.0	ug/L	U0.50	33.8	49.6	67.6	99.2	38*	30	45-150
Dibromochloromethane	50.0	50.0	ug/L	U0.50	32.4	49.4	64.8	98.8	42*	30	60-135
2-Hexanone	50.0	50.0	ug/L	U2.5	35.3	55.1	70.6	110.	44*	30	55-130

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG165740-7
MSD ID: WG165740-8
Sample ID: SI4557-3
Client ID: 159-062415-258-260
Project:
SDG: SI4557
MS File ID: P1711.D

Received Date:
Extract Date: 30-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG165740
Report Date: 08-JUL-15
MSD File ID: P1712.D

Analysis Date: 30-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	50.0	50.0	ug/L	UM0.50	31.4	47.6	62.8*	95.2	41*	30	80-120
Ethylbenzene	50.0	50.0	ug/L	UM0.50	30.9	48.0	61.8*	96.0	43*	30	75-125
Xylenes (total)	150.	150.	ug/L	UM1.5	96.4	149.	64.3*	99.3	43*	30	89-116
Styrene	50.0	50.0	ug/L	UM0.50	32.1	50.3	64.2*	101.	44*	30	65-135
Bromoform	50.0	50.0	ug/L	UM0.50	33.7	50.8	67.4*	102.	40*	30	70-130
Isopropylbenzene	50.0	50.0	ug/L	UM0.50	32.7	51.1	65.4*	102.	44*	30	75-125
1,1,2,2-Tetrachloroethane	50.0	50.0	ug/L	UM0.50	29.8	45.8	59.6*	91.6	42*	30	65-130
1,3-Dichlorobenzene	50.0	50.0	ug/L	UM0.50	30.2	47.0	60.4*	94.0	44*	30	75-125
1,4-Dichlorobenzene	50.0	50.0	ug/L	UM0.50	30.0	46.7	60.0*	93.4	44*	30	75-125
1,2-Dichlorobenzene	50.0	50.0	ug/L	UM0.50	29.7	48.2	59.4*	96.4	47*	30	70-120
1,2,4-Trichlorobenzene	50.0	50.0	ug/L	UM0.50	29.6	46.8	59.2*	93.6	45*	30	65-135
Methyl Acetate	50.0	50.0	ug/L	U0.75	37.0	39.8	74.0	79.6	7	30	70-132
Methylcyclohexane	50.0	50.0	ug/L	U0.50	41.4	44.9	82.8	89.8	8	30	73-125
o-Xylene	50.0	50.0	ug/L	UM0.50	31.9	49.3	63.8*	98.6	43*	30	80-120
M+P-Xylenes	100.	100.	ug/L	UM1.0	64.6	99.5	64.6*	99.5	42*	30	75-130
1,2-Dichloroethylene (Total)	100.	100.	ug/L	JM1.6	62.0	95.4	60.4*	93.8	42*	30	84-121
1,2-Dibromoethane	50.0	50.0	ug/L	UM0.50	30.2	47.7	60.4*	95.4	45*	30	80-120
1,2-Dibromo-3-Chloropropane	50.0	50.0	ug/L	U0.75	37.0	54.8	74.0	110.	39*	30	50-130
P-Bromofluorobenzene							92.9	89.8			75-120
Toluene-d8							97.0	93.8			85-120
1,2-Dichloroethane-d4							98.7	89.2			70-120
Dibromofluoromethane							93.5	87.5			85-115

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Report Date: 08-Jul-2015 13:31

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Data file : \\target_server\gg\chem\gcms-p.i\P063015.b\P1711.D
Lab Smp Id: WG165740-7 Client Smp ID: 159-062415-258-260M
Inj Date : 30-JUN-2015 19:43 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165740-7,SI4557
Misc Info : WG165740,WG165276-4,SI4557-3
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P063015.b\P826A09.m
Meth Date : 08-Jul-2015 13:28 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 21 QC Sample: MS
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	2.180	2.187	(0.250)	197722	37.3556	37.4	
2 Chloromethane	50	2.444	2.437	(0.281)	253521	33.5388	33.5	
3 Vinyl chloride	62	2.516	2.516	(0.289)	179745	32.4160	32.4	
4 Bromomethane	94	2.909	2.909	(0.334)	78074	27.6667	27.7	
5 Chloroethane	64	3.059	3.067	(0.351)	128391	28.1332	28.1(R)	
6 Trichlorofluoromethane	101	3.231	3.231	(0.371)	257649	34.9485	34.9	
7 Diethyl Ether	59	3.617	3.617	(0.415)	162761	35.9209	35.9(R)	
8 Tertiary-butyl alcohol	59	5.304	5.305	(0.609)	69516	182.379	182	
9 1,1-Dichloroethene	96	3.888	3.889	(0.446)	134786	33.8620	33.9(R)	
10 Carbon Disulfide	76	3.946	3.953	(0.453)	473981	32.4774	32.5	
11 Freon-113	151	3.931	3.939	(0.451)	128399	50.5869	50.6	
12 Iodomethane	142	4.110	4.111	(0.472)	83102	21.0821	21.1(R)	
13 Acrolein	56	4.368	4.368	(0.501)	171893	169.212	169	
14 Methylene Chloride	84	4.732	4.733	(0.543)	156790	28.5085	28.5	
15 Acetone	43	4.804	4.804	(0.551)	62791	35.4293	35.4	
16 Isobutyl Alcohol	43	8.965	8.966	(1.029)	128709	734.013	734	
17 trans-1,2-Dichloroethene	96	4.982	4.983	(0.572)	137115	32.3315	32.3	
18 Allyl Chloride	41	4.568	4.568	(0.524)	268566	42.9354	42.9	
19 Methyl tert-butyl ether	73	5.147	5.147	(0.591)	901119	67.8627	67.9	
20 Acetonitrile	39	5.597	5.598	(0.642)	57400	388.715	389	
21 Di-isopropyl ether	45	5.826	5.827	(0.669)	601189	36.3834	36.4(R)	
22 Chloroprene	53	6.026	6.027	(0.692)	337999	42.2424	42.2	
23 Propionitrile	54	8.622	8.622	(0.989)	288351	406.150	406	
24 Methacrylonitrile	41	8.650	8.651	(0.993)	1223090	424.696	425	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1711.D
Report Date: 08-Jul-2015 13:31

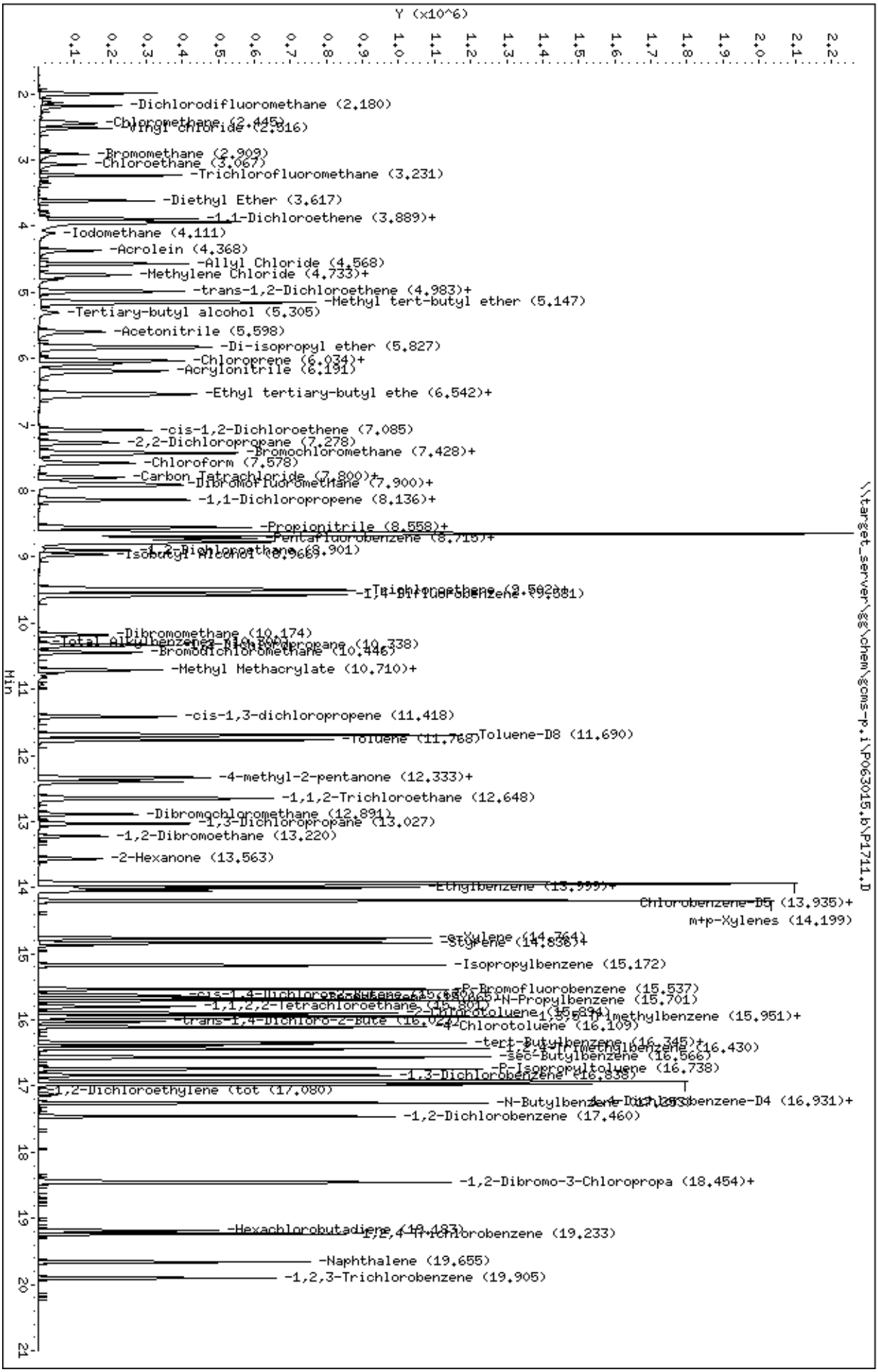
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	6.084	6.084	(0.698)	284768	34.5698	34.6(R)	
	26 Acrylonitrile	52	6.191	6.191	(0.710)	342069	198.892	199	
	27 Ethyl tertiary-butyl ether	59	6.534	6.535	(0.750)	509315	35.2003	35.2(R)	
	28 Vinyl Acetate	43	6.570	6.570	(0.686)	361879	30.8763	30.9	
	29 cis-1,2-Dichloroethene	96	7.085	7.085	(0.813)	154059	29.6922	29.7(R)	
M	30 1,2-Dichloroethylene (total)	96				291174	62.0236	62.0(R)	
	31 Methyl Methacrylate	41	10.710	10.710	(1.118)	173934	41.6203	41.6	
	32 2,2-Dichloropropane	77	7.278	7.278	(0.835)	170227	28.6320	28.6(R)	
	33 Bromochloromethane	128	7.442	7.435	(0.854)	58102	28.8087	28.8(R)	
	34 Chloroform	83	7.578	7.578	(0.870)	260892	30.9957	31.0(R)	
	35 Carbon Tetrachloride	117	7.800	7.800	(0.814)	181229	36.4647	36.5	
	36 Tetrahydrofuran	42	7.850	7.843	(0.901)	43915	31.7631	31.8(R)	
$	37 Dibromofluoromethane	113	7.900	7.900	(0.906)	195951	46.7367	46.7	
	38 1,1,1-Trichloroethane	97	7.921	7.922	(0.909)	233619	33.4598	33.4	
	39 1,1-Dichloropropene	75	8.136	8.135	(0.849)	208708	34.3451	34.3(R)	
	40 2-Butanone	43	8.121	8.115	(0.932)	67879	30.8512	30.8	
	41 Benzene	78	8.558	8.558	(0.893)	542379	30.4934	30.5(R)	
*	42 Pentafluorobenzene	168	8.715	8.715	(1.000)	387613	50.0000		
	43 Cyclohexane	56	7.428	7.428	(0.852)	249697	32.9844	33.0(R)	
	44 Ethyl Methacrylate	69	10.710	10.710	(1.118)	127905	36.2762	36.3(R)	
$	45 1,2-Dichloroethane-D4	65	8.786	8.787	(1.008)	290496	49.3370	49.3	
	46 Tertiary-amyl methyl ether	73	8.765	8.765	(1.006)	399519	33.4801	33.5(R)	
	47 1,2-Dichloroethane	62	8.901	8.894	(0.929)	221923	33.8563	33.8(R)	
	48 Trichloroethene	95	9.509	9.509	(0.993)	249029	55.0527	55.0	
*	49 1,4-Difluorobenzene	114	9.580	9.573	(1.000)	705914	50.0000		
	50 Dibromomethane	93	10.173	10.174	(1.062)	82811	31.1018	31.1(R)	
	51 1,2-Dichloropropane	63	10.338	10.338	(1.079)	134869	29.9606	30.0(R)	
	52 Bromodichloromethane	83	10.445	10.446	(1.090)	200391	31.3180	31.3(R)	
	53 cis-1,3-dichloropropene	75	11.418	11.418	(1.192)	217624	30.1880	30.2(R)	
	54 1,4-Dioxane	88	10.753	10.753	(1.122)	36901	602.463	602	
$	55 Toluene-D8	98	11.689	11.690	(1.220)	757399	48.5015	48.5	
	57 Toluene	92	11.768	11.768	(1.228)	349505	29.8870	29.9(R)	
	58 4-methyl-2-pentanone	43	12.354	12.355	(1.290)	140449	32.9930	33.0	
	59 Tetrachloroethene	164	12.333	12.333	(0.885)	104147	33.7872	33.8	
	60 trans-1,3-Dichloropropene	75	12.404	12.405	(1.295)	206883	33.6393	33.6	
	61 1,1,2-Trichloroethane	83	12.640	12.634	(1.319)	103486	29.3807	29.4(R)	
	62 Dibromochloromethane	129	12.891	12.891	(0.925)	141302	32.4152	32.4	
	63 1,3-Dichloropropane	76	13.026	13.027	(0.935)	232070	30.3068	30.3(R)	
	64 1,2-Dibromoethane	107	13.219	13.220	(1.380)	123056	30.2313	30.2(R)	
	65 2-Hexanone	43	13.563	13.563	(0.973)	102117	35.2984	35.3	
*	66 Chlorobenzene-D5	117	13.934	13.935	(1.000)	620780	50.0000		
	67 Chlorobenzene	112	13.956	13.956	(1.002)	379444	31.3576	31.4(R)	
	152 1-Chlorohexane	91	13.934	13.935	(1.000)	203176	30.1673	30.2(R)	
	68 Ethylbenzene	106	13.999	13.999	(1.005)	204379	30.9181	30.9(R)	
	69 1,1,1,2-Tetrachloroethane	131	14.049	14.049	(1.008)	131012	32.1275	32.1(R)	
M	70 Xylenes (total)	106				764860	96.4218	96.4(R)	
	71 m+p-Xylenes	106	14.199	14.199	(1.019)	512053	64.5554	64.6(R)	
	72 o-Xylene	106	14.764	14.764	(1.060)	252807	31.8665	31.9(R)	
	73 Styrene	104	14.835	14.836	(1.065)	435976	32.1191	32.1(R)	
	74 Bromoform	173	14.864	14.872	(1.067)	88920	33.7484	33.7(R)	
	75 Isopropylbenzene	105	15.171	15.172	(0.896)	689755	32.6700	32.7(R)	
$	76 P-Bromofluorobenzene	95	15.536	15.537	(1.622)	330036	46.4616	46.5	
	77 cis-1,4-Dichloro-2-Butene	53	15.622	15.622	(0.923)	88486	38.3513	38.4	
	78 trans-1,4-Dichloro-2-Butene	53	16.022	16.023	(0.947)	71245	42.1060	42.1	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1711.D
Report Date: 08-Jul-2015 13:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	79 Bromobenzene	156	15.665	15.665	(0.926)	154665	28.9094	28.9(R)	
	80 N-Propylbenzene	91	15.701	15.701	(0.928)	847068	33.7223	33.7(R)	
	81 1,1,2,2-Tetrachloroethane	83	15.801	15.801	(0.934)	186790	29.7684	29.8(R)	
	82 1,3,5-Trimethylbenzene	105	15.951	15.951	(0.943)	582390	31.3178	31.3(R)	
	83 2-Chlorotoluene	91	15.894	15.894	(0.939)	514359	31.7993	31.8(R)	
	84 1,2,3-Trichloropropane	75	15.965	15.966	(0.943)	154485	32.1180	32.1(R)	
	85 4-Chlorotoluene	91	16.108	16.109	(0.952)	539804	31.7749	31.8(R)	
	86 tert-Butylbenzene	119	16.344	16.344	(0.966)	547005	30.7315	30.7(R)	
	87 Pentachloroethane	117	16.373	16.373	(0.967)	138503	37.6434	37.6	
	88 1,2,4-Trimethylbenzene	105	16.430	16.430	(0.971)	612015	33.0045	33.0(R)	
	89 P-Isopropyltoluene	119	16.744	16.745	(0.989)	654758	32.6273	32.6(R)	
	90 1,3-Dichlorobenzene	146	16.837	16.838	(0.995)	327360	30.2011	30.2(R)	
*	91 1,4-Dichlorobenzene-D4	152	16.923	16.924	(1.000)	350952	50.0000		
	92 1,4-Dichlorobenzene	146	16.945	16.945	(1.001)	332038	30.0008	30.0(R)	
	93 N-Butylbenzene	91	17.259	17.260	(1.020)	617654	32.6232	32.6(R)	
	94 sec-Butylbenzene	105	16.566	16.565	(0.979)	764102	33.2927	33.3(R)	
	95 1,2-Dichlorobenzene	146	17.459	17.460	(1.032)	309239	29.7418	29.7(R)	
	96 1,2-Dibromo-3-Chloropropane	75	18.425	18.425	(1.089)	41974	37.0472	37.0	
	97 1,3,5-Trichlorobenzene	180	18.460	18.461	(1.091)	272277	37.9930	38.0	
	98 Hexachlorobutadiene	225	19.190	19.190	(1.134)	73150	31.7671	31.8	
	99 1,2,4-Trichlorobenzene	180	19.233	19.233	(1.136)	198157	29.6396	29.6(R)	
	100 1,2,3-Trimethylbenzene	105	16.973	16.974	(1.003)	767969	39.7647	39.8(R)	
	101 Naphthalene	128	19.655	19.655	(1.161)	512696	32.5568	32.6	
	102 1,2,3-Trichlorobenzene	180	19.905	19.905	(1.176)	165407	31.9163	31.9	
	103 Methyl Acetate	43	4.997	4.997	(0.573)	145083	36.9664	37.0	
	104 Methylcyclohexane	83	9.480	9.480	(1.088)	303476	41.3531	41.4	
M	153 Total Alkylbenzenes	100				4624992	227.319	227(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.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Date : 30-JUN-2015 19:43
Client ID: 159-062415-258-260M
Sample Info: WG165740-7,SI4557
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 (2.909)
-Chloroethane (3.067)
-Trichlorofluoromethane (3.231)
-Diethyl Ether (3.617)
-1,1-Dichloroethene (3.889)+
-Iodomethane (4.111)
-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 (5.827)
-Chloroprene (6.034)+
-Acrylonitrile (6.191)
-Ethyl tertiary-butyl ethe (6.542)+
-cis-1,2-Dichloroethene (7.085)
-2,2-Dichloropropane (7.278)
-Bromochloromethane (7.428)+
-Chloroform (7.578)
-Carbon Tetrachloride (7.800)+
-Dibromofluoromethane (7.900)+
-1,1-Dichloropropene (8.136)+
-Propionitrile (8.558)+
-Pentafluorobenzene (8.715)+
-1,2-Dichloroethane (8.901)
-Isobutyl Alcohol (9.068)
-Trichloroethene (9.502)+
-1,4-Difluorobenzene (9.881)
-Dibromomethane (10.174)
-Total alkylbenzenes-Mix 500ppm
-1,2,3-Trichloropropane (10.338)
-Bromodichloromethane (10.446)
-Methyl Methacrylate (10.710)+
-cis-1,3-dichloropropene (11.418)
-Toluene (11.768)
Toluene-D8 (11.690)
-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 (14.838)+
-Isopropylbenzene (15.172)
-p-Bromofluorobenzene (15.537)
-cis-1,4-Dichlorobutene (15.665)
-N-Propylbenzene (15.701)
-1,1,2,2-Tetrachloroethane (15.801)
-2-Chlorotoluene (15.874)
-1,3,5-Trimethylbenzene (15.951)+
-trans-1,4-Dichloro-2-Bute (16.022)
-4-Chlorotoluene (16.109)
-tert-Butylbenzene (16.345)+
-1,2,4-Trimethylbenzene (16.430)
-sec-Butylbenzene (16.566)
-p-Isopropyltoluene (16.738)
-1,3-Dichlorobenzene (16.838)
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.193)
-1,4-Dichlorobenzene-D4 (16.931)+
-1,2-Dichlorobenzene (17.460)
-1,2-Dibromo-3-Chloropropa (18.454)+
-Hexachlorobutadiene (18.483)
-1,2,4-Trichlorobenzene (19.233)
-Naphthalene (19.655)
-1,2,3-Trichlorobenzene (19.905)
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Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1712.D
Report Date: 08-Jul-2015 13:31

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-p.i\P063015.b\P1712.D
Lab Smp Id: WG165740-8 Client Smp ID: 159-062415-258-260M
Inj Date : 30-JUN-2015 20:11 MS Autotune Date: 19-MAY-2015 09:23
Operator : EME Inst ID: gcms-p.i
Smp Info : WG165740-8,SI4557
Misc Info : WG165740,WG165276-4,SI4557-3
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-p.i\P063015.b\P826A09.m
Meth Date : 08-Jul-2015 13:28 gcms-p.i Quant Type: ISTD
Cal Date : 22-JUN-2015 12:13 Cal File: P1538.D
Als bottle: 22 QC Sample: MSD
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)	314168	58.5832	58.6	
2 Chloromethane	50	2.438	2.437	(0.280)	404190	52.7751	52.8	
3 Vinyl chloride	62	2.517	2.516	(0.289)	286544	51.0039	51.0	
4 Bromomethane	94	2.910	2.909	(0.334)	127051	43.7181	43.7	
5 Chloroethane	64	3.060	3.067	(0.351)	201042	51.8289	51.8	
6 Trichlorofluoromethane	101	3.232	3.231	(0.371)	411563	55.0993	55.1	
7 Diethyl Ether	59	3.618	3.617	(0.415)	187700	40.8856	40.9	
8 Tertiary-butyl alcohol	59	5.306	5.305	(0.609)	69536	180.122	180	
9 1,1-Dichloroethene	96	3.890	3.889	(0.446)	207759	51.5154	51.5	
10 Carbon Disulfide	76	3.947	3.953	(0.453)	757732	51.2443	51.2	
11 Freon-113	151	3.933	3.939	(0.451)	136860	53.2185	53.2	
12 Iodomethane	142	4.112	4.111	(0.472)	140649	34.4037	34.4	
13 Acrolein	56	4.369	4.368	(0.501)	197632	192.017	192	
14 Methylene Chloride	84	4.734	4.733	(0.543)	251837	45.6066	45.6	
15 Acetone	43	4.805	4.804	(0.551)	92939	51.7574	51.8	
16 Isobutyl Alcohol	43	8.966	8.966	(1.029)	135392	760.874	761	
17 trans-1,2-Dichloroethene	96	4.984	4.983	(0.572)	220892	51.4079	51.4	
18 Allyl Chloride	41	4.569	4.568	(0.524)	289300	45.6481	45.6	
19 Methyl tert-butyl ether	73	5.148	5.147	(0.591)	1185481	88.1157	88.1	
20 Acetonitrile	39	5.599	5.598	(0.642)	65844	440.094	440	
21 Di-isopropyl ether	45	5.828	5.827	(0.669)	691549	41.3071	41.3	
22 Chloroprene	53	6.035	6.027	(0.692)	379498	46.8115	46.8	
23 Propionitrile	54	8.623	8.622	(0.989)	317955	442.018	442	
24 Methacrylonitrile	41	8.652	8.651	(0.993)	1353763	463.952	464	

Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1712.D
Report Date: 08-Jul-2015 13:31

	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	6.085	6.084	(0.698)	436229	52.2672	52.3	
	26 Acrylonitrile	52	6.192	6.191	(0.710)	378419	217.163	217	
	27 Ethyl tertiary-butyl ether	59	6.535	6.535	(0.750)	587394	40.0681	40.1(R)	
	28 Vinyl Acetate	43	6.571	6.570	(0.686)	543850	46.5964	46.6	
	29 cis-1,2-Dichloroethene	96	7.086	7.085	(0.813)	231244	43.9881	44.0	
M	30 1,2-Dichloroethylene (total)	96				452136	95.3960	95.4	
	31 Methyl Methacrylate	41	10.711	10.710	(1.118)	194670	46.7769	46.8	
	32 2,2-Dichloropropane	77	7.279	7.278	(0.835)	245720	40.7919	40.8	
	33 Bromochloromethane	128	7.443	7.435	(0.854)	91128	44.5957	44.6	
	34 Chloroform	83	7.579	7.578	(0.870)	413751	48.5165	48.5	
	35 Carbon Tetrachloride	117	7.801	7.800	(0.814)	282397	57.0579	57.0	
	36 Tetrahydrofuran	42	7.851	7.843	(0.901)	67459	48.1571	48.2	
$	37 Dibromofluoromethane	113	7.901	7.900	(0.906)	185952	43.7745	43.8	
	38 1,1,1-Trichloroethane	97	7.923	7.922	(0.909)	367169	51.9028	51.9	
	39 1,1-Dichloropropene	75	8.137	8.135	(0.849)	327042	54.0431	54.0	
	40 2-Butanone	43	8.123	8.115	(0.932)	104385	46.8258	46.8	
	41 Benzene	78	8.559	8.558	(0.893)	853377	48.1787	48.2	
*	42 Pentafluorobenzene	168	8.716	8.715	(1.000)	392725	50.0000		
	43 Cyclohexane	56	7.429	7.428	(0.852)	386144	50.3448	50.3	
	44 Ethyl Methacrylate	69	10.711	10.710	(1.118)	142343	40.5079	40.5	
$	45 1,2-Dichloroethane-D4	65	8.788	8.787	(1.008)	266032	44.5940	44.6	
	46 Tertiary-amyl methyl ether	73	8.766	8.765	(1.006)	451105	37.3109	37.3(R)	
	47 1,2-Dichloroethane	62	8.902	8.894	(0.929)	338248	51.8184	51.8	
	48 Trichloroethene	95	9.510	9.509	(0.993)	320701	71.1935	71.2(R)	
*	49 1,4-Difluorobenzene	114	9.581	9.573	(1.000)	702976	50.0000		
	50 Dibromomethane	93	10.175	10.174	(1.062)	127247	47.9906	48.0	
	51 1,2-Dichloropropane	63	10.332	10.338	(1.078)	212886	47.4894	47.5	
	52 Bromodichloromethane	83	10.447	10.446	(1.090)	319988	50.2181	50.2	
	53 cis-1,3-dichloropropene	75	11.412	11.418	(1.191)	353023	49.1747	49.2	
	54 1,4-Dioxane	88	10.754	10.753	(1.122)	38889	637.573	638	
$	55 Toluene-D8	98	11.691	11.690	(1.220)	729300	46.8973	46.9	
	57 Toluene	92	11.769	11.768	(1.228)	557274	47.8530	47.8	
	58 4-methyl-2-pentanone	43	12.356	12.355	(1.290)	229059	54.0334	54.0	
	59 Tetrachloroethene	164	12.334	12.333	(0.886)	157395	49.5972	49.6	
	60 trans-1,3-Dichloropropene	75	12.406	12.405	(1.295)	326232	53.2672	53.3	
	61 1,1,2-Trichloroethane	83	12.634	12.634	(1.319)	162062	46.2034	46.2	
	62 Dibromochloromethane	129	12.892	12.891	(0.926)	221895	49.4435	49.4	
	63 1,3-Dichloropropane	76	13.028	13.027	(0.935)	365417	46.3523	46.4	
	64 1,2-Dibromoethane	107	13.221	13.220	(1.380)	193312	47.6897	47.7	
	65 2-Hexanone	43	13.564	13.563	(0.974)	164033	55.0744	55.1	
*	66 Chlorobenzene-D5	117	13.929	13.935	(1.000)	639112	50.0000		
	67 Chlorobenzene	112	13.957	13.956	(1.002)	592800	47.5843	47.6	
	152 1-Chlorohexane	91	13.936	13.935	(1.000)	317964	45.8567	45.8	
	68 Ethylbenzene	106	14.000	13.999	(1.005)	326568	47.9856	48.0	
	69 1,1,1,2-Tetrachloroethane	131	14.050	14.049	(1.009)	208513	49.6660	49.7	
M	70 Xylenes (total)	106				1215494	148.836	149	
	71 m+p-Xylenes	106	14.200	14.199	(1.020)	812874	99.5409	99.5	
	72 o-Xylene	106	14.765	14.764	(1.060)	402620	49.2948	49.3	
	73 Styrene	104	14.837	14.836	(1.065)	702898	50.2984	50.3	
	74 Bromoform	173	14.865	14.872	(1.067)	137954	50.8567	50.8	
	75 Isopropylbenzene	105	15.173	15.172	(0.896)	1083146	51.0869	51.1	
$	76 P-Bromofluorobenzene	95	15.530	15.537	(1.621)	317783	44.9237	44.9	
	77 cis-1,4-Dichloro-2-Butene	53	15.623	15.622	(0.923)	93473	40.3556	40.4	
	78 trans-1,4-Dichloro-2-Butene	53	16.024	16.023	(0.947)	74494	43.8409	43.8	

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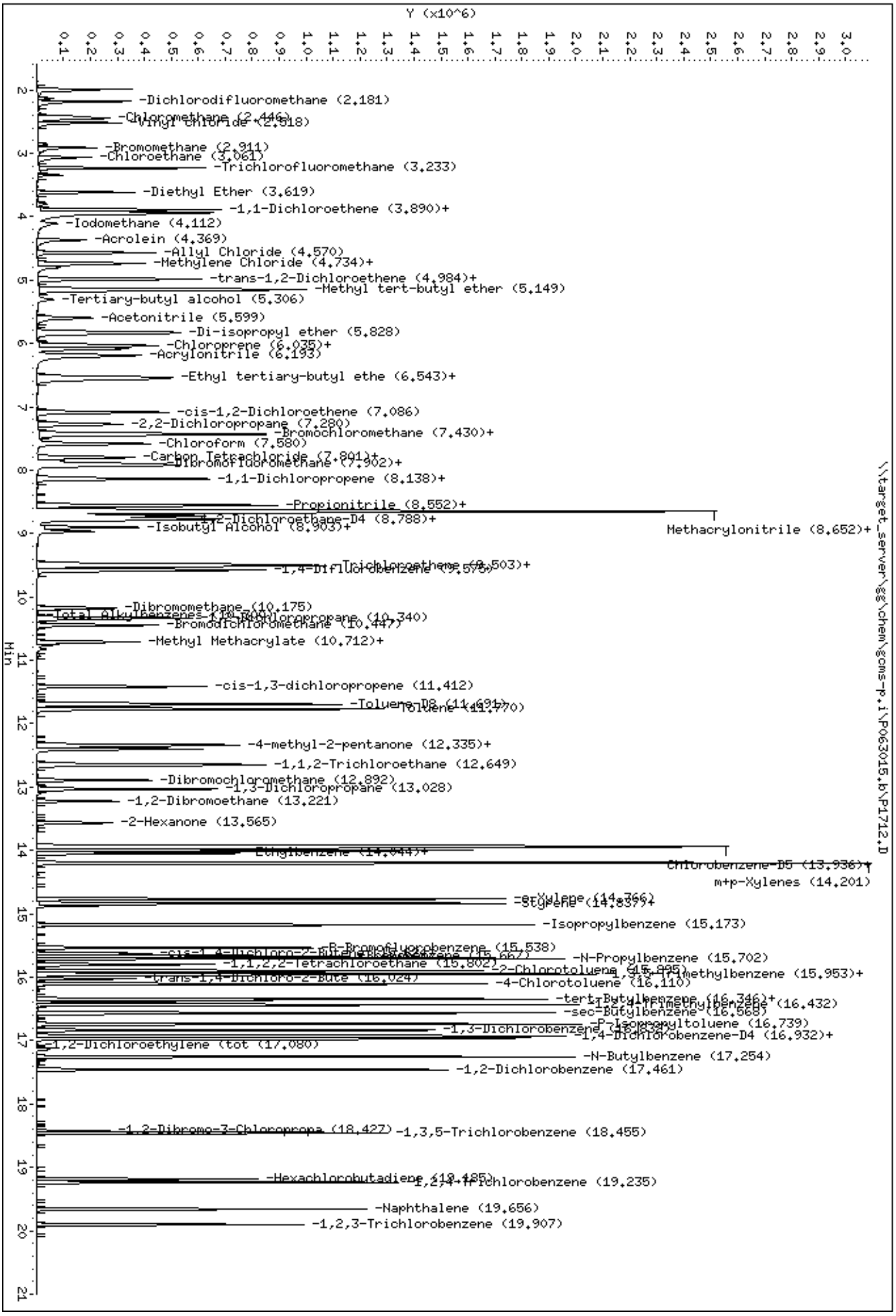
Report Date: 08-Jul-2015 13:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	79 Bromobenzene	156	15.666	15.665	(0.926)	248262	46.2089	46.2	
	80 N-Propylbenzene	91	15.702	15.701	(0.928)	1320250	52.3388	52.3	
	81 1,1,2,2-Tetrachloroethane	83	15.802	15.801	(0.934)	288909	45.8492	45.8	
	82 1,3,5-Trimethylbenzene	105	15.952	15.951	(0.943)	921818	49.3618	49.4	
	83 2-Chlorotoluene	91	15.895	15.894	(0.939)	810081	49.8710	49.9	
	84 1,2,3-Trichloropropane	75	15.966	15.966	(0.943)	237471	49.1634	49.2	
	85 4-Chlorotoluene	91	16.109	16.109	(0.952)	847035	49.6499	49.6	
	86 tert-Butylbenzene	119	16.345	16.344	(0.966)	915942	51.2423	51.2	
	87 Pentachloroethane	117	16.374	16.373	(0.967)	166874	45.1634	45.2	
	88 1,2,4-Trimethylbenzene	105	16.431	16.430	(0.971)	963161	51.7223	51.7	
	89 P-Isopropyltoluene	119	16.739	16.745	(0.989)	1015315	50.3813	50.4	
	90 1,3-Dichlorobenzene	146	16.839	16.838	(0.995)	511914	47.0287	47.0	
*	91 1,4-Dichlorobenzene-D4	152	16.925	16.924	(1.000)	352435	50.0000		
	92 1,4-Dichlorobenzene	146	16.946	16.945	(1.001)	519080	46.7034	46.7	
	93 N-Butylbenzene	91	17.253	17.260	(1.019)	964445	50.7256	50.7	
	94 sec-Butylbenzene	105	16.567	16.565	(0.979)	1179576	51.1791	51.2	
	95 1,2-Dichlorobenzene	146	17.461	17.460	(1.032)	503661	48.2370	48.2	
	96 1,2-Dibromo-3-Chloropropane	75	18.426	18.425	(1.089)	62406	54.8492	54.8	
	97 1,3,5-Trichlorobenzene	180	18.455	18.461	(1.090)	302000	41.9631	42.0	
	98 Hexachlorobutadiene	225	19.184	19.190	(1.133)	114041	49.3166	49.3	
	99 1,2,4-Trichlorobenzene	180	19.234	19.233	(1.136)	314050	46.7768	46.8	
	100 1,2,3-Trimethylbenzene	105	16.967	16.974	(1.003)	865108	44.6060	44.6	
	101 Naphthalene	128	19.656	19.655	(1.161)	802711	50.0368	50.0	
	102 1,2,3-Trichlorobenzene	180	19.906	19.905	(1.176)	260690	50.0900	50.1	
	103 Methyl Acetate	43	4.998	4.997	(0.573)	158278	39.8035	39.8	
	104 Methylcyclohexane	83	9.481	9.480	(1.088)	333954	44.9139	44.9	
M	153 Total Alkylbenzenes	100				7280507	356.951	357	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-p.i\P063015.b\P1712.D
Date : 30-JUN-2015 20:11
Client ID: 159-062415-258-260M
Sample Info: WG165740-8,SI4557
Instrument: gcms-p.i
Y (x10^6)
Min
-Dichlorodifluoromethane (2.181)
-Chloromethane (2.446)
-Vinyl chloride (2.518)
-Bromomethane (2.911)
-Chloroethane (3.061)
-Trichlorofluoromethane (3.233)
-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 (4.984)+
-Methyl tert-butyl ether (5.149)
-Tertiary-butyl alcohol (5.306)
-Acetonitrile (5.599)
-Di-isopropyl ether (5.828)
-Chloroprene (6.035)+
-Acrylonitrile (6.193)
-Ethyl tertiary-butyl ethe (6.543)+
-cis-1,2-Dichloroethene (7.086)
-2,2-Dichloropropane (7.280)
-Bromochloromethane (7.430)+
-Chloroform (7.580)
-Carbon Tetrachloride (7.801)+
-Dibromofluoromethane (7.902)+
-1,1-Dichloropropene (8.138)+
-Propionitrile (8.552)+
1,2-Dichloroethane-D4 (8.788)+
Methacrylonitrile (8.652)+
-Isobutyl Alcohol (8.903)+
-Trichloroethene (9.503)+
-1,4-Dichlorobenzene (9.575)
-Dibromomethane (10.175)
-Total Alkylbenzenes (10.240)
-1,2-Dichloropropane (10.340)
-Bromodichloromethane (10.447)
-Methyl Methacrylate (10.712)+
-cis-1,3-dichloropropene (11.412)
-Toluene-D8 (11.691)
Toluene (11.770)
-4-methyl-2-pentanone (12.335)+
-1,1,2-Trichloroethane (12.649)
-Dibromochloromethane (12.892)
-1,3-Dichloropropane (13.028)
-1,2-Dibromoethane (13.221)
-2-Hexanone (13.565)
Ethylbenzene (14.044)+
Chlorobenzene-D5 (13.936)+
m+p-Xylenes (14.201)
-o-Xylene (14.766)
Styrene (14.837)+
-Isopropylbenzene (15.173)
-Bromofluorobenzene (15.538)
-cis-1,4-Dichloro-2-Butene (15.667)
-N-Propylbenzene (15.702)
-1,1,2,2-Tetrachloroethane (15.802)
-2-Chlorotoluene (15.895)
-1,3,5-Trimethylbenzene (15.953)+
-trans-1,4-Dichloro-2-Bute (16.024)
-4-Chlorotoluene (16.110)
-tert-Butylbenzene (16.346)+
-1,2,4-Trimethylbenzene (16.432)
-sec-Butylbenzene (16.568)
-P-Isopropyltoluene (16.739)
-1,3-Dichlorobenzene (16.826)+
-1,4-Dichlorobenzene-D4 (16.932)+
-1,2-Dichloroethylene (tot (17.080)
-N-Butylbenzene (17.254)
-1,2-Dichlorobenzene (17.461)
-1,2-Dibromo-3-Chloroprope (18.427)
-1,3,5-Trichlorobenzene (18.455)
-Hexachlorobutadiene (18.485)
-1,2,4-Trichlorobenzene (19.235)
-Naphthalene (19.656)
-1,2,3-Trichlorobenzene (19.907)
\\target_server\gg\chem\gcms-p.i\P063015.b\P1712.D

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

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	VOABFBAQ							Y	FME	—	
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[W61652] ⑧	39	1	7								Y			IND ⑦
VBLK A	40	1	8								N			
B	41	1	9								N			
C ⑨	42	1	10								Y			
SI 4364-2 A	43	1	11		X		X				Y		<2	
SI 4339-2 A	44	1	12					X			Y		<2	
SI 4191-12RA 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	
SI 4336-4 A	50	1	18				X				Y		<2	
SI 4339-1 A	51	1	19					X			Y		<2	
SI 4364-1 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 RCL

STANDARD	CODE
BFB	V9879
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

0000081

Katahdin Analytical Services 0000219

KATAHDIN ANALYTICAL SERVICES

GCMS-P INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06/29/15 / 10:46

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	PB300	1	1	VOABFBAQ							Y	EMT		
VSTD050PB9A -4	P1663	1	1	PB26A09							Y			
LCSA W6165671-1	64	1	2								Y			
VBLKA	65	1	3								N			
VDLKB	66	1	4								N			
VBLKC -2	67	1	5								Y			
MeOH Blk -5	68	1	6								Y			800mL → 40mL
SI4557-4 A	69	1	7		X				X		Y		<2	
SI4556-9 A	70	1	8		X	06/29/15					Y		<2	
SI4557-6 A+BN	71	1	9		X	X					Y		<2	Decanted All 3 vials
SI4463-5DL A	72	1	10			X					Y		Z	800mL → 40mL
SI4557-1 A	73	1	11		X						Y		5	
-2 A	74	1	12								Y		<2	
-3 A	75	1	13								Y		<2	
-5 A	76	1	14								Y		<2	
-7 A	77	1	15								Y		<2	
-8 A	78	1	16								Y		<2	
-9 A	79	1	17								Y		<2	DL1:5
SI4556-1 A	80	1	18								Y		<2	COL ½ PGL
-2 A	81	1	19								Y		<2	
-3 A	82	1	20								Y		<2	
-4 A	83	1	21								Y		<2	
-5 A	84	1	22								Y		<2	DL1:40
-6 A	85	1	23								N		<2	RACO?
-7 A	86	1	24								N		<2	RACO?
-8 A	87	1	25								Y		<2	22:37

STANDARD	CODE
BFB	V9879
CAL. STD.	V9910 V9911
LCS/MS MIX	V9912
EXTRAS MIX	V9908

STANDARD	CODE
IS MIX	V9913
SS MIX	V9915

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: 06-30-15/9:55

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB ③	P1301	1	1	V8260BAQ							Y	EME	—	
VSTD050 P30A ④	P1691	1	1	P8260A09							Y			
LCS A	92	1	2								N			spiked ⑤
↓ B [VG165740] ①	93	1	3								Y			
VBLK A	94	1	4								N			
B	95	1	5								N			
↓ C ②	96	1	6								Y		—	
SI4586-2 A	97	1	7		X			X	X		Y		<2	
↓ -1 A	98	1	8					L	L	07/01/15 RCL	Y			
SI4496-3DL B	99	10	9						X		Y			
SI4557-9DL B	P1700	5	10								Y			
SI4556-5DL B	01	40	11								Y			
-6RA B	02	1	12								Y			
↓ -7RA B	03	1	13								Y			
SI4461-1 A	04	1	14								Y			
-2 A	05	1	15								Y			
-3 A	06	1	16								Y			
-4 A	07	1	17								Y			
-5 B	08	1	18								Y			
-3MS ⑥ B	09	1	19								Y			
↓ -3MSD ⑥ D	10	1	20								Y			
SI4557-3MS ⑦ B	11	1	21								Y			
↓ -3MSD ⑦ C	12	1	22								Y		↓	20:11 ✓
Rinse	13	1	23								N			
Rinse	14	1	24								N			
Rinse	15	1	24								N			
Rinse	16	1	25											

STANDARD	CODE
BFB	V9879
CAL. STD.	V9910, V9911
LCS/MS MIX	V9912
EXTRAS MIX	V9908

STANDARD	CODE
IS MIX	V9913
SS MIX	V9915

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS546