BERKELEY ANALYTICAL
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Richmond, CA 94804
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E-mail info@berkeleyanalytical.com

Analysis of Field-Collected Air Samples

Customer and Project Information

Report Certification	
Report number	061-025-IH-Oct2715
Report date	October 27, 2015
Certified by (Name/Title)	Raja Tannous, Laboratory Director
Signature	
Date	*October 28, 2015*

Methods	
U.S. EPA TO-17	Determination of Volatile Organic Compounds in Ambient...
ASTM D 5197	Std. Test Method for Determination of Formaldehyde...

Customer Information	
Customer:	US EPA
City/State/Country	San Francisco, CA, USA
Contact name/Title	Jeff Woodlee
Phone number	415-972-3740

Project Information	
Project number	Not given
Project name	Renovation #5
Project location	Not given
Project date	October 26, 2015

Laboratory Receiving Information	
Date samples received by lab	October 26, 2015
Condition of samples	No observed problems
Lab tracking numbers	061-025-01 to 061-025-17

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Sample Information

Sample No.	Sample Description	Sampler No.	Date Collected	Volume (L)	Analysis Type	Specified Method
C5-01	10221 Office cubicle	A10961	October 26, 2015	5.70	Caprolactam	TO-17
C5-02	10332 Office cubicle	A10979	October 26, 2015	5.47	Caprolactam	TO-17
C5-03	10344 Office cubicle	A10963	October 26, 2015	5.05	Caprolactam	TO-17
C5-04	10366 Office cubicle	A10971	October 26, 2015	5.89	Caprolactam	TO-17
C5-05	10448 Office cubicle	A10960	October 26, 2015	5.67	Caprolactam	TO-17
C5-06	10146 Office cubicle	A10980	October 26, 2015	5.52	Caprolactam	TO-17
C5-07	10221 Office cubicle	Waters Cart	October 26, 2015	6.06	Caprolactam	D 5197
C5-08	10332 Office cubicle	Waters Cart	October 26, 2015	5.83	Caprolactam	D 5197
F5-01	10221 Office cubicle	Waters Cart	October 26, 2015	54.10	Formaldehyde	D 5197
F5-02	10332 Office cubicle	Waters Cart	October 26, 2015	52.36	Formaldehyde	D 5197
F5-03	10344 Office cubicle	Waters Cart	October 26, 2015	49.13	Formaldehyde	D 5197
F5-04	10366 Office cubicle	Waters Cart	October 26, 2015	55.60	Formaldehyde	D 5197
F5-05	10448 Office cubicle	Waters Cart	October 26, 2015	53.72	Formaldehyde	D 5197
F5-06	10146 Office cubicle	Waters Cart	October 26, 2015	53.67	Formaldehyde	D 5197
F5-07	10411 Office cubicle	Waters Cart	October 26, 2015	57.60	Formaldehyde	D 5197
F5-08	10151 Office cubicle	Waters Cart	October 26, 2015	55.91	Formaldehyde	D 5197
F5-09	10216 Office cubicle	Waters Cart	October 26, 2015	56.56	Formaldehyde	D 5197

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Analytical Information

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
C5-01	061-025-01	TO-17	October 27, 2015	R. Gill	T150527_09
C5-02	061-025-02	TO-17	October 27, 2015	R. Gill	T150527_10
C5-03	061-025-03	TO-17	October 27, 2015	R. Gill	T150528_01
C5-04	061-025-04	TO-17	October 27, 2015	R. Gill	T150527_12
C5-05	061-025-05	TO-17	October 27, 2015	R. Gill	T150527_13
C5-06	061-025-06	TO-17	October 27, 2015	R. Gill	T150527_14
C5-07	061-025-07	TO-17	October 27, 2015	R. Gill	T150527_15
C5-08	061-025-08	TO-17	October 27, 2015	R. Gill	T150528_02
F5-01	061-025-09	D 5197	October 26, 2015	T.Cheng	151026\151026010.D
F5-02	061-025-10	D 5197	October 26, 2015	T.Cheng	151026\151026011.D
F5-03	061-025-11	D 5197	October 26, 2015	T.Cheng	151026\151026013.D
F5-04	061-025-12	D 5197	October 26, 2015	T.Cheng	151026\151026014.D
F5-05	061-025-13	D 5197	October 26, 2015	T.Cheng	151026\151026015.D
F5-06	061-025-14	D 5197	October 26, 2015	T.Cheng	151026\151026016.D
F5-07	061-025-15	D 5197	October 26, 2015	T.Cheng	151026\151026017.D
F5-08	061-025-16	D 5197	October 26, 2015	T.Cheng	151026\151026018.D
F5-09	061-025-17	D 5197	October 26, 2015	T.Cheng	151026\151026019.D

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Project Specific Information

Air samples for the analysis of formaldehyde (CAS # 50-00-0) and caprolactam (CAS # 105-60-2) were received by the laboratory on October 26, 2015. There were nine DNPH cartridges for the analysis of formaldehyde and there were eight multi-sorbent tubes for Caprolactam analysis. The analytical results are reported in Tables 1 – 2. All laboratory data, including but not limited to raw instrument files, calibration files, and quality control checks used to generate the results will be made available to the customer upon request.

Formaldehyde was analyzed by HPLC and quantified using multi-point (4 or more points) calibration curve.

MDL and LOQ – Method detection limit (MDL) for formaldehyde of 15 nanograms was determined from the analysis of ten replicates of the low level standard spiked onto DNPH cartridges; MDL for formaldehyde was The practical lower limit of quantitation (LOQ) is three times the MDL.

Uncertainty – The laboratory uses the ISO GUM method to estimate the uncertainties associated with the measurement of formaldehyde. The expanded uncertainty is equal to two times the relative standard deviation. For 2015, the expanded uncertainty estimated for formaldehyde was <9.0%.

The multisorbent air samples were analyzed for VOCs following U.S. EPA Compendium Method TO-17. Individual VOCs (iVOCs) were quantified using multi-point (4 or more points) with calibration curves prepared with pure standards, unless otherwise noted.

MDL and LOQ – Method detection limit (MDL) for caprolactam was determined from the analysis of three replicates of the low level standard spiked onto multisorbent air sampling tubes; The practical lower limit of quantitation (LOQ) is three times the MDL.

Uncertainty – The laboratory uses the ISO GUM method to estimate the uncertainties associated with the measurement of VOCs . The expanded uncertainty is equal to two times the relative standard deviation. For 2015, the expanded uncertainty estimated for caprolactam was 11%.

All test methods used in this project are contained in the scope of Berkeley Analytical's ISO/IEC 17025 accreditation (TL-383, International Accreditation Service, Inc.).

Results

Table 1. Quantitative analysis of formaldehyde (CAS #50-00-0)

Sample No.	Sample Name	Volume (L)	Mass (ng)	Conc ($\mu g/m^3$)	Conc* (ppb)
F5-01	10221 Office cubicle	54.10	682	12.6	10.3
F5-02	10332 Office cubicle	52.36	626	12.0	9.7
F5-03	10344 Office cubicle	49.13	490	10.0	8.1
F5-04	10366 Office cubicle	55.60	741	13.3	10.9
F5-05	10448 Office cubicle	53.72	577	10.7	8.8
F5-06	10146 Office cubicle	53.67	708	13.2	10.8
F5-07	10411 Office cubicle	57.60	666	11.6	9.4
F5-08	10151 Office cubicle	55.91	763	13.6	11.1
F5-09	10216 Office cubicle	56.56	661	11.7	9.5

Concentration in ppb calculated assuming standard conditions of 25° C and 101.3 kPa.

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Table 2. Quantitative analysis of Caprolactam (CAS # 105-60-2).

Sample No.	Sample Name	Volume (L)	Mass* (ng)	Conc ($\mu g/m^3$)
F081526	C5-01; 10221 Office cubicle	5.70	49.0	8.6
F090370	C5-02; 10332 Office cubicle	5.47	59.7	10.9
F089741	C5-03; 10344 Office cubicle	5.05	39.7	7.9
F079068	C5-04; 10366 Office cubicle	5.89	65.4	11.1
F077485	C5-05; 10448 Office cubicle	5.67	51.3	9.0
A10955	C5-06; 10146 Office cubicle	5.52	63.8	11.6
A10975	C5-07; 10221 Office cubicle	6.06	69.0	11.4
A10986	C5-08; 10332 Office cubicle	5.83	ND*	--

*Nd = Not detected or below the method detection limit (MDL) of 3.9 ng.

END OF REPORT

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*			
Company:	US EPA		
Street Address:	75 Hawthorne Street		
City/State/Zip Code:	San Francisco, 94105		
Country:		Contact (for reporting):	Jeff Woodlee
Project/Job Name:			
Project/Job #:	Renovation #5	P.O. #:	
Phone:	(415) 972-3740	Fax:	
E-mail address:	woodlee-Jeff@epa.gov		

Received from BAA (check if applicable)	
Multi-sorbent tube samplers	☒
Aldehyde cartridge samplers	☐
Sampling pump(s)	☐
Other materials (specify):	☐

BAA Analysis Code	
Total VOCs by GC/MS total-ion-current method (TIC)	a
Qualitative GC/MS of individual VOCs	b
Qualitative GC/MS plus quantitation of up to 15 individual VOCs	c
Quantitative GC/MS analysis of target list of compounds	d
Quantitative GC/MS Total VOCs plus 4-PCH	e
Quantitative HPLC analysis of formaldehyde	f
Quantitative HPLC analysis of formaldehyde & acetaldehyde	g
Quantitative HPLC analysis of formaldehyde & C2-C9 carbonyls	h
Quantitative HPLC analysis of glutaraldehyde	i
	k
Other (specify):	z

Air Sampling Record

Tube/Cartridge Sampler No.	Collected Sample ID	Date Collected	Collection Minutes	Collected Volume (L)	Sample Location / Description / Remarks	Analysis Code	BAA Remarks
F081520	C5-01	10/26/15	59	5.70	10221 OFFICE CUBICLE	Caprolactam	
F090370	C5-02		57	5.47	10332		
F089741	C5-03		53	5.05	10344		
F079068	C5-04		61	5.89	10366		
F077485	C5-05		59	5.67	10448		
A10955	C5-06		58	5.52	10146		
A10975	C5-07		63	6.06	10411		
A10986	C5-08		61	5.83	10151		
Pump Failed	~~C5-09~~	Don't Run			~~10216~~ Pump FAILED		
6F079068							

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Woodlee		[signature]	10/26/15	USEPA
	KGill	[signature]	10/26/15	BAA

SC061-025

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*			
Company:	US EPA		
Street Address:	75 Hawthorne Street		
City/State/Zip Code:	San Francisco, 94105		
Country:		Contact (for reporting):	Jeff Woodlee
Project/Job Name:			
Project/Job #:	Renovation #5	P.O. #:	
Phone:	(415) 972-3740	Fax:	
E-mail address:	woodlee.jeff@epa.gov		

Received from BAA (check if applicable)	
Multi-sorbent tube samplers	☐
Aldehyde cartridge samplers	☒
Sampling pump(s)	☐
Other materials (specify):	☐

BAA Analysis Code	
Total VOCs by GC/MS total-ion-current method (TIC)	a
Qualitative GC/MS of individual VOCs	b
Qualitative GC/MS plus quantitation of up to 15 individual VOCs	c
Quantitative GC/MS analysis of target list of compounds	d
Quantitative GC/MS Total VOCs plus 4-PCH	e
Quantitative HPLC analysis of formaldehyde	f
Quantitative HPLC analysis of formaldehyde & acetaldehyde	g
Quantitative HPLC analysis of formaldehyde & C2-C9 carbonyls	h
Quantitative HPLC analysis of glutaraldehyde	i
	k
Other (specify):	z

Air Sampling Record

Tube/Cartridge Sampler No.	Collected Sample ID	Date Collected	Collection Minutes	Collected Volume (L)	Sample Location / Description / Remarks	Analysis Code	BAA Remarks
	FS-01	10/26/15	59	54.10	10221 OFFICE Cubicle	f	
	FS-02		57	52.36	10332	f	
	FS-03		53	49.13	10344	f	
	FS-04		61	55.60	10366	f	
	FS-05		59	53.72	10448	f	
	FS-06		58	53.67	10146	f	
	FS-07		63	57.60	10411	f	
	FS-08		61	55.91	10151	f	
	FS-09		61	56.56	10216	f	

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Woodlee		[signature]	10/26/15	US EPA
	RGill	[signature]	10/26/15	BKA

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Client Information*			
Company:	US EPA		
Street Address:	75 Hawthorne Street		
City/State/Zip Code:	San Francisco, 94105		
Country:		Contact (for reporting):	Jeff Woodlee
Project/Job Name:			
Project/Job #:	Renovation #5	P.O. #:	
Phone:	(415) 972-3740	Fax:	
E-mail address:	woodlee.Jeff@epa.gov		

Received from BAA (check if applicable)	
Multi-sorbent tube samplers	☒
Aldehyde cartridge samplers	☐
Sampling pump(s)	☐
Other materials (specify):	☐

BAA Analysis Code	
Total VOCs by GC/MS total-ion-current method (TIC)	a
Qualitative GC/MS of individual VOCs	b
Qualitative GC/MS plus quantitation of up to 15 individual VOCs	c
Quantitative GC/MS analysis of target list of compounds	d
Quantitative GC/MS Total VOCs plus 4-PCH	e
Quantitative HPLC analysis of formaldehyde	f
Quantitative HPLC analysis of formaldehyde & acetaldehyde	g
Quantitative HPLC analysis of formaldehyde & C2-C9 carbonyls	h
Quantitative HPLC analysis of glutaraldehyde	i
	k
Other (specify):	z

Air Sampling Record

Tube/Cartridge Sampler No.	Collected Sample ID	Date Collected	Collection Minutes	Collected Volume (L)	Sample Location / Description / Remarks	Analysis Code	BAA Remarks
F081526	C5-01	10/26/15	59	5.70	10221 OFFICE CUBICLE	Caprolactam	
F090370	C5-02		57	5.47	10332		
F089741	C5-03		53	5.05	10344		
F079068	C5-04		61	5.89	10366		
F077485	C5-05		59	5.67	10448		
A10955	C5-06		58	5.52	10146		
A10975	C5-07		63	6.06	10411		
A10986	C5-08		61	5.83	10151		
Pump Failed	~~C5-09~~		Do it Run		~~10216~~ Pump FAILED		
6F079268							

Sample(s) Handling				
Relinquished By	Received By	Signature	Date	Company
Woodlee			10/26/15	USEPA
	K Gill		10/26/15	BAA

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e-mail: baalab@berkeleyanalytical.com

CHAIN-OF-CUSTODY RECORD
for ANALYTICAL SERVICES
2009 Update

Client Information*	
Company: US EPA	
Street Address: 75 Hawthorne Street	
City/State/Zip Code: San Francisco, 94105	
Country:	Contact (for reporting): Jeff Woodlee
Project/Job Name:	
Project/Job #: Renovation #5	P.O. #:
Phone: (415) 972-3740	Fax:
E-mail address: woodlee.jeff@epa.gov	

Received from BAA (check if applicable)	
Multi-sorbent tube samplers	☐
Aldehyde cartridge samplers	☒
Sampling pump(s)	☐
Other materials (specify):	☐

BAA Analysis Code	
Total VOCs by GC/MS total-ion-current method (TIC)	a
Qualitative GC/MS of individual VOCs	b
Qualitative GC/MS plus quantitation of up to 15 individual VOCs	c
Quantitative GC/MS analysis of target list of compounds	d
Quantitative GC/MS Total VOCs plus 4-PCH	e
Quantitative HPLC analysis of formaldehyde	f
Quantitative HPLC analysis of formaldehyde & acetaldehyde	g
Quantitative HPLC analysis of formaldehyde & C2-C9 carbonyls	h
Quantitative HPLC analysis of glutaraldehyde	i
	k
Other (specify):	z

Air Sampling Record

Tube/Cartridge Sampler No.	Collected Sample ID	Date Collected	Collection Minutes	Collected Volume (L)	Sample Location / Description / Remarks	Analysis Code	BAA Remarks
	F5-01	10/26/15	59	54.10	10221 OFFICE Cubicle	f	
	F5-02	↓	57	52.36	10332 ↓	f	
	F5-03	↓	53	49.13	10344 ↓	f	
	F5-04	↓	61	55.60	10366 ↓	f	
	F5-05	↓	59	53.72	10448 ↓	f	
	F5-06	↓	58	53.67	10146 ↓	f	
	F5-07	↓	63	57.60	10411 ↓	f	
	F5-08	↓	61	55.91	10151 ↓	f	
	F5-09	↓	61	56.56	10216 ↓	f	

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
Woodlee		[signature]	10/26/15	US EPA
	RGill	[signature]	10/26/15	BKA

JC 061-025

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Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026010.D
Sample Name: 061-025-09

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Acq. Operator : SYSTEM Seq. Line : 8
Acq. Instrument : Agilent 1260 Location : Vial 8
Injection Date : 10/26/2015 9:42:54 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
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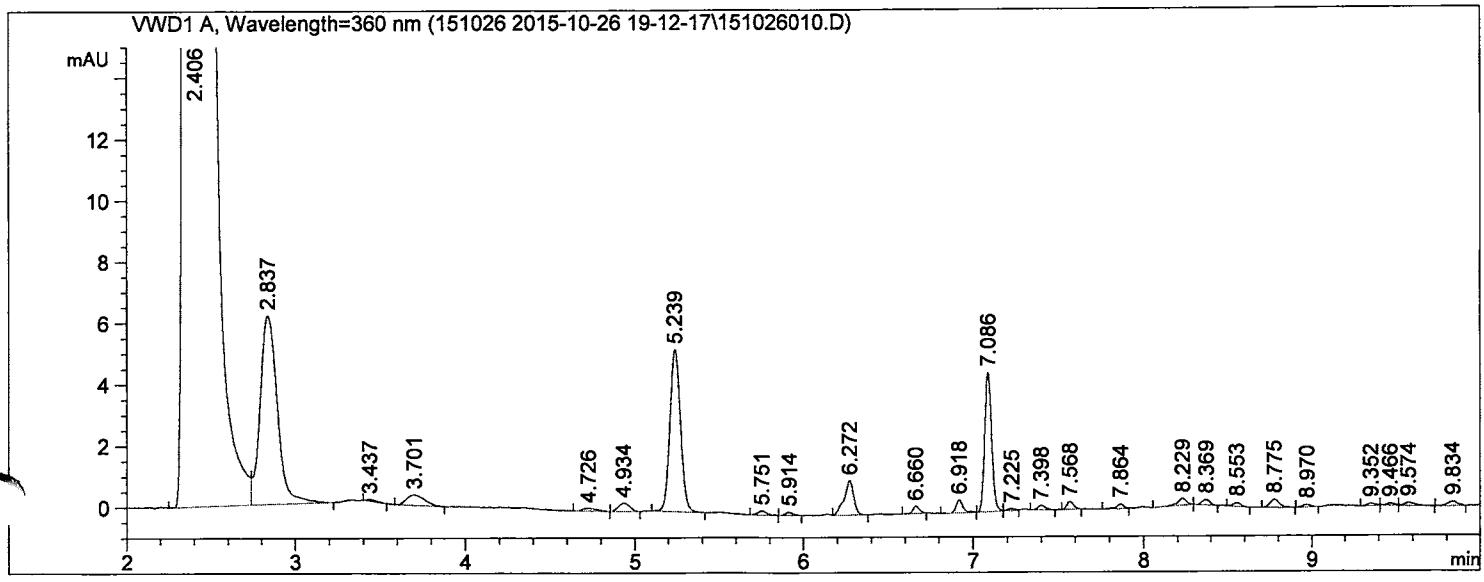
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-09; F5-01-1026-10221-Office Cubicle; 54.1L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.239	1	BB	23.02483	1.48143e-2	682.19367		Formaldehyde;50-00-0
6.272	1	VB	4.45567	1.89429e-2	168.80648		Acetaldehyde;75-07-0

Totals : 851.00015

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*** End of Report ***

Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026011.D
Sample Name: 061-025-10

==========

Acq. Operator : SYSTEM
Seq. Line : 9
Acq. Instrument : Agilent 1260
Location : Vial 9
Injection Date : 10/26/2015 9:59:33 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
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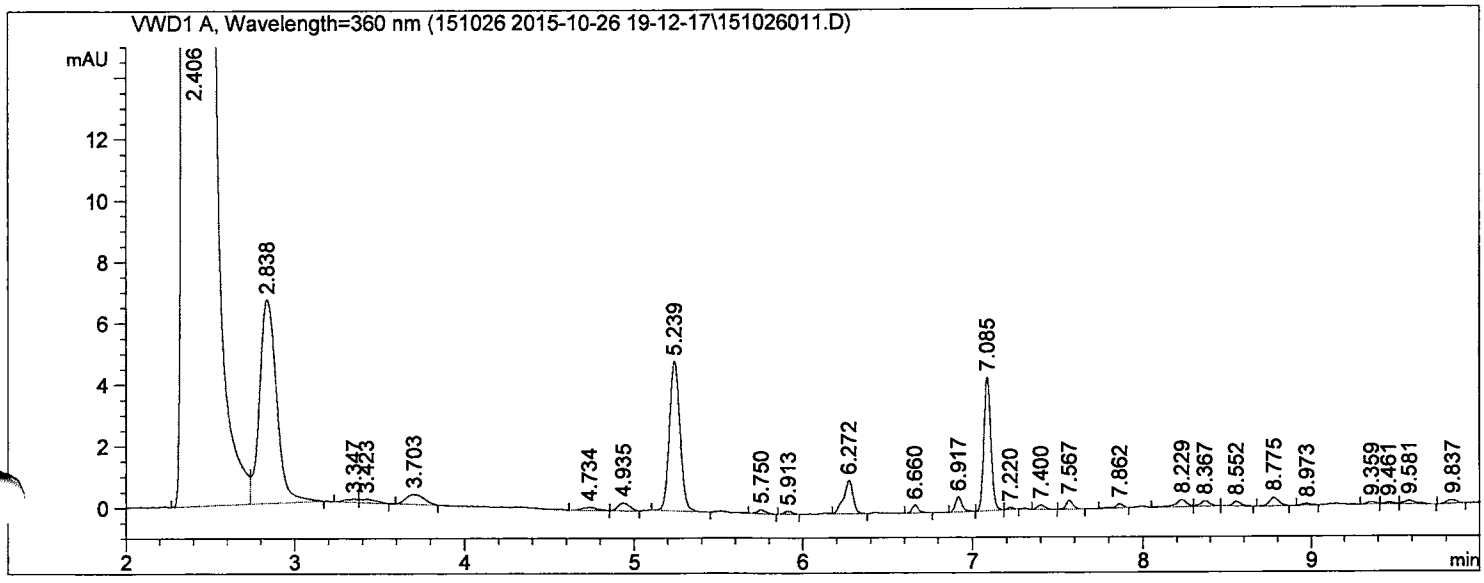
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-10; F5-02-1026-10332-Office Cubicle; 52.36L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.239	1	BB	21.13174	1.48143e-2	626.10385		Formaldehyde;50-00-0
6.272	1	BB	4.21216	1.89429e-2	159.58080		Acetaldehyde;75-07-0

Totals : 785.68465

==========

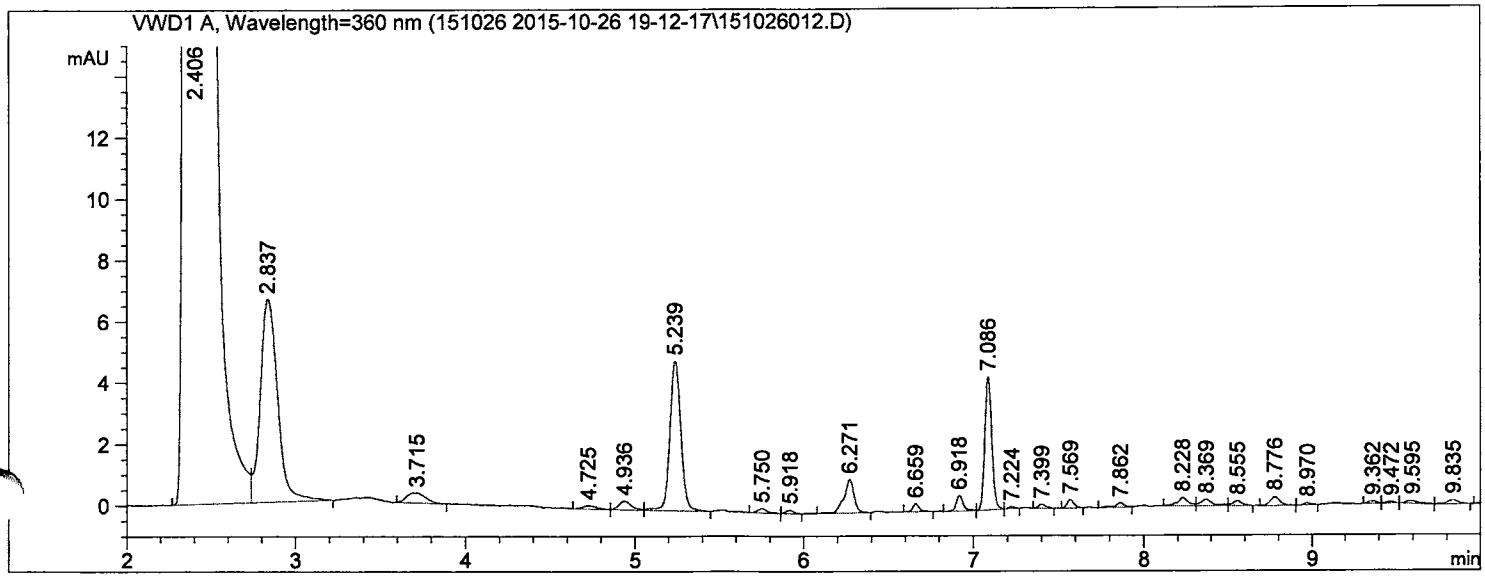
*** End of Report ***

Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026012.D
Sample Name: 061-025-10

==========

Acq. Operator : SYSTEM Seq. Line : 9
Acq. Instrument : Agilent 1260 Location : Vial 9
Injection Date : 10/26/2015 10:16:13 PM Inj : 2
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-10; F5-02-1026-10332-Office Cubicle; 52.36L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.239	1	VB	21.97723	1.48143e-2	651.15469		Formaldehyde;50-00-0
6.271	1	BV	4.59732	1.89429e-2	174.17309		Acetaldehyde;75-07-0

Totals : 825.32779

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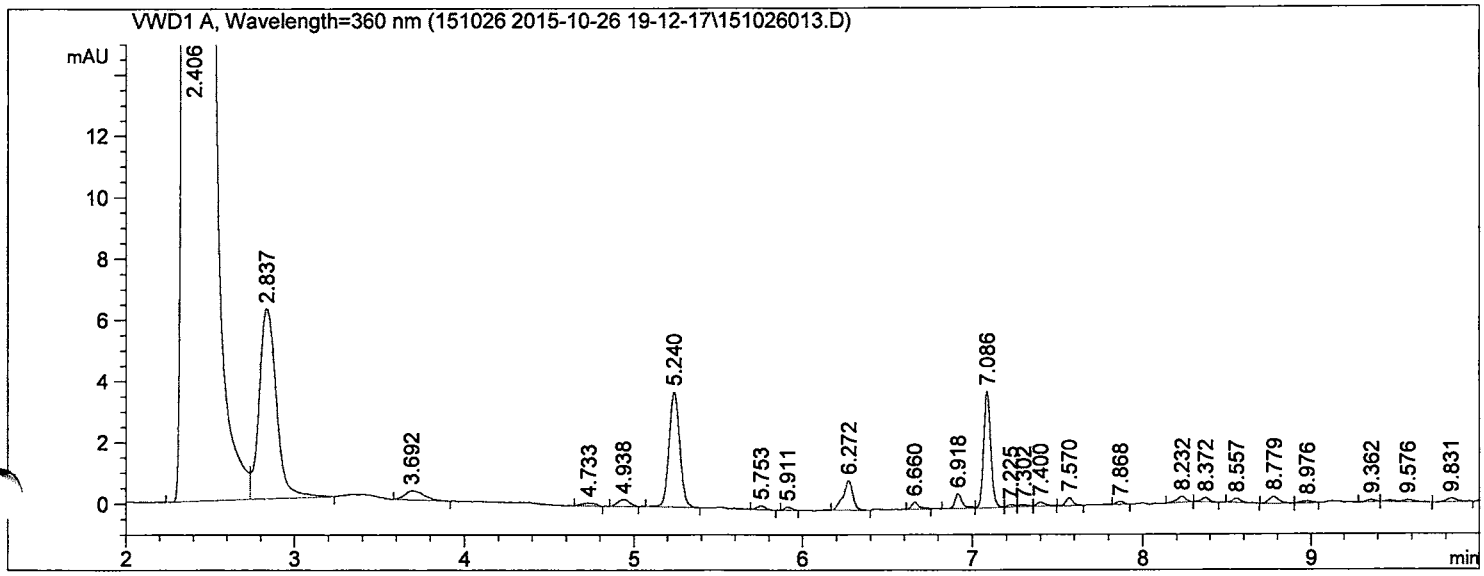
*** End of Report ***

Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026013.D
Sample Name: 061-025-11

==========

Acq. Operator : SYSTEM Seq. Line : 10
Acq. Instrument : Agilent 1260 Location : Vial 10
Injection Date : 10/26/2015 10:32:56 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-11; F5-03-1026-10344-Office Cubicle; 49.13L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.240	1	BB	16.53139	1.48143e-2	489.80192		Formaldehyde;50-00-0
6.272	1	BB	3.84055	1.89429e-2	145.50224		Acetaldehyde;75-07-0

Totals : 635.30416

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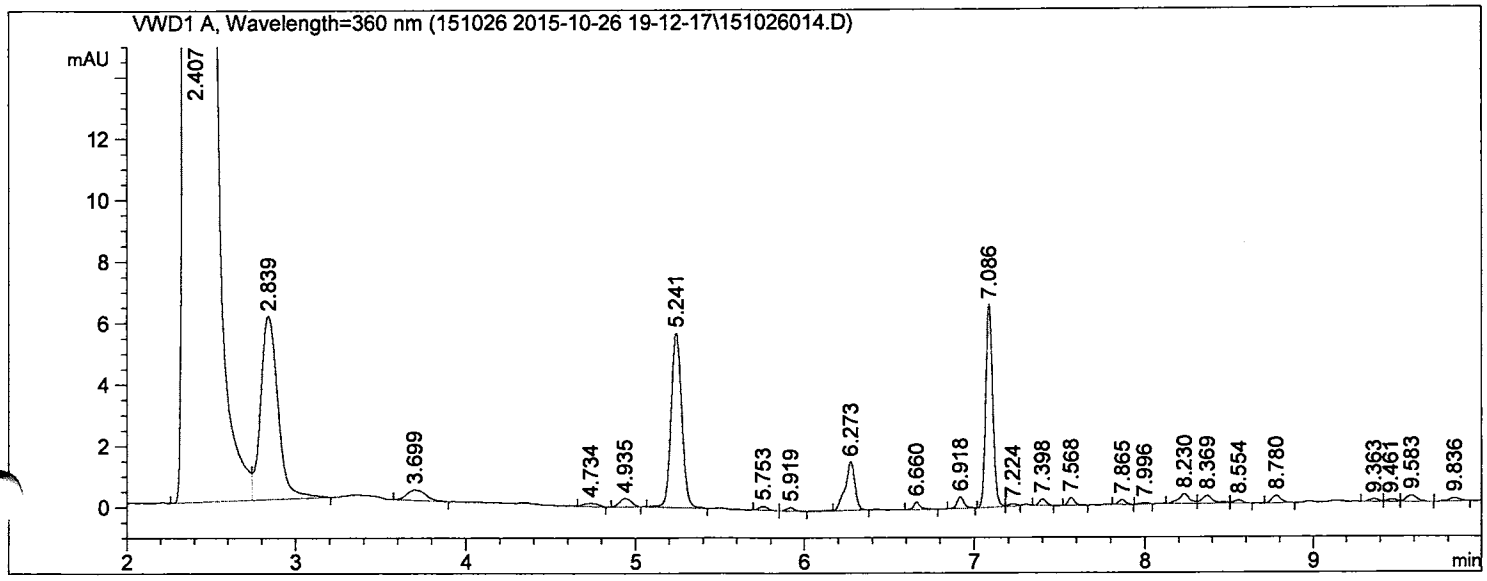
*** End of Report ***

Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026014.D
Sample Name: 061-025-12

==========

Acq. Operator : SYSTEM
Seq. Line : 11
Acq. Instrument : Agilent 1260
Location : Vial 11
Injection Date : 10/26/2015 10:49:38 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-12; F5-04-1026-10366-Office Cubicle; 55.6L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.241	1	BB	25.02342	1.48143e-2	741.40905		Formaldehyde;50-00-0
6.273	1	BB	6.29298	1.89429e-2	238.41443		Acetaldehyde;75-07-0

Totals : 979.82348

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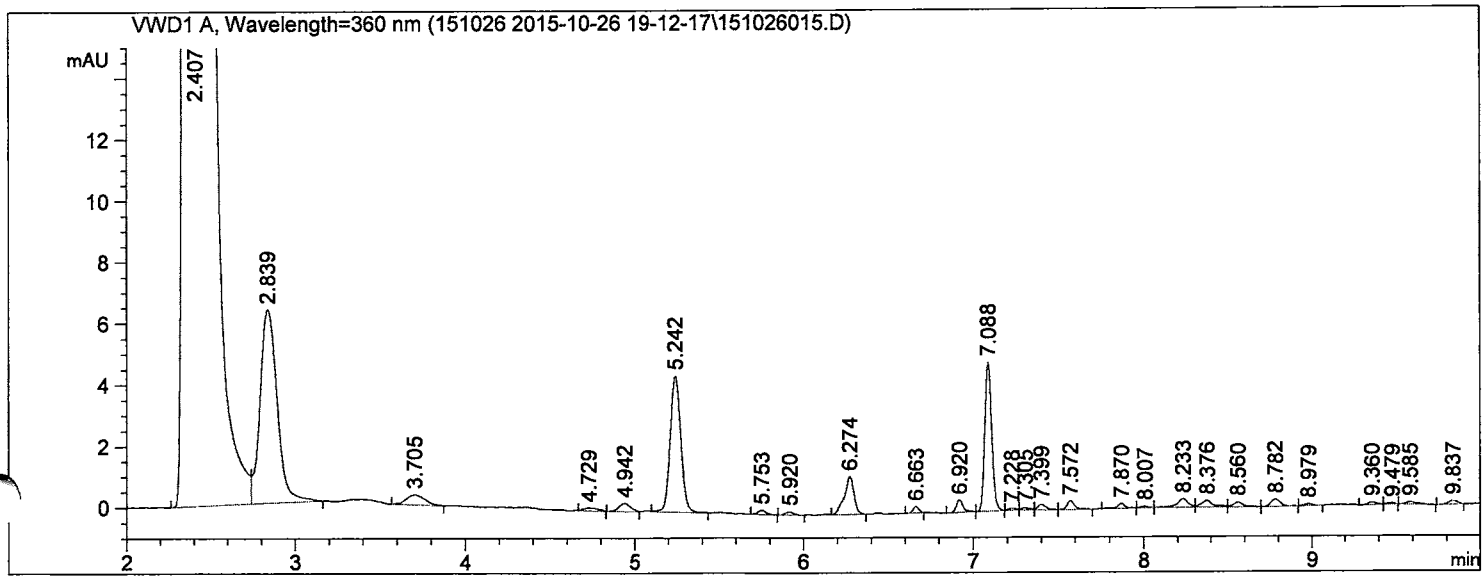
*** End of Report ***

Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026015.D
Sample Name: 061-025-13

==========

Acq. Operator : SYSTEM
Seq. Line : 12
Acq. Instrument : Agilent 1260
Location : Vial 12
Injection Date : 10/26/2015 11:06:18 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-13; F5-05-1026-10448-Office Cubicle; 53.72L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.242	1	VB	19.47538	1.48143e-2	577.02825		Formaldehyde;50-00-0
6.274	1	BB	4.97230	1.89429e-2	188.37935		Acetaldehyde;75-07-0

Totals : 765.40760

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*** End of Report ***

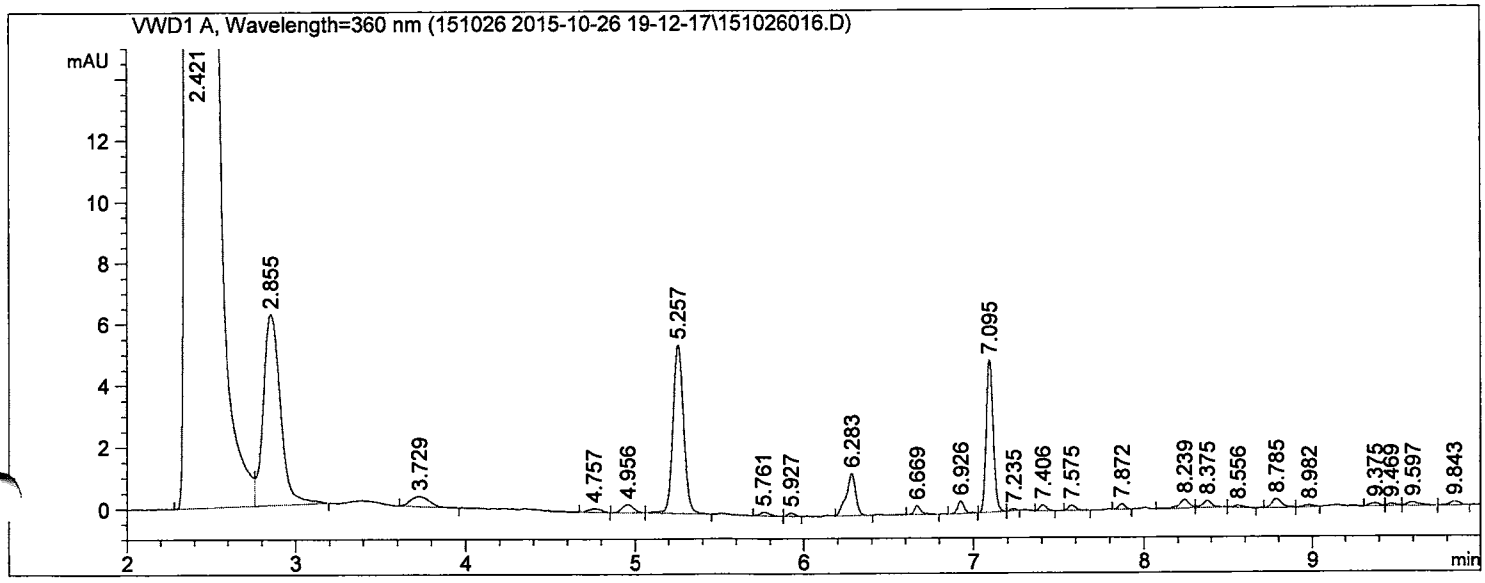
Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026016.D
Sample Name: 061-025-14

==========

Acq. Operator : SYSTEM
Seq. Line : 13
Acq. Instrument : Agilent 1260
Location : Vial 13
Injection Date : 10/26/2015 11:24:32 PM
Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-14; F5-06-1026-10146-Office Cubicle; 53.67L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.257	1	BB	23.90839	1.48143e-2	708.37209		Formaldehyde;50-00-0
6.283	1	BB	5.31203	1.89429e-2	201.25016		Acetaldehyde;75-07-0

Totals : 909.62225

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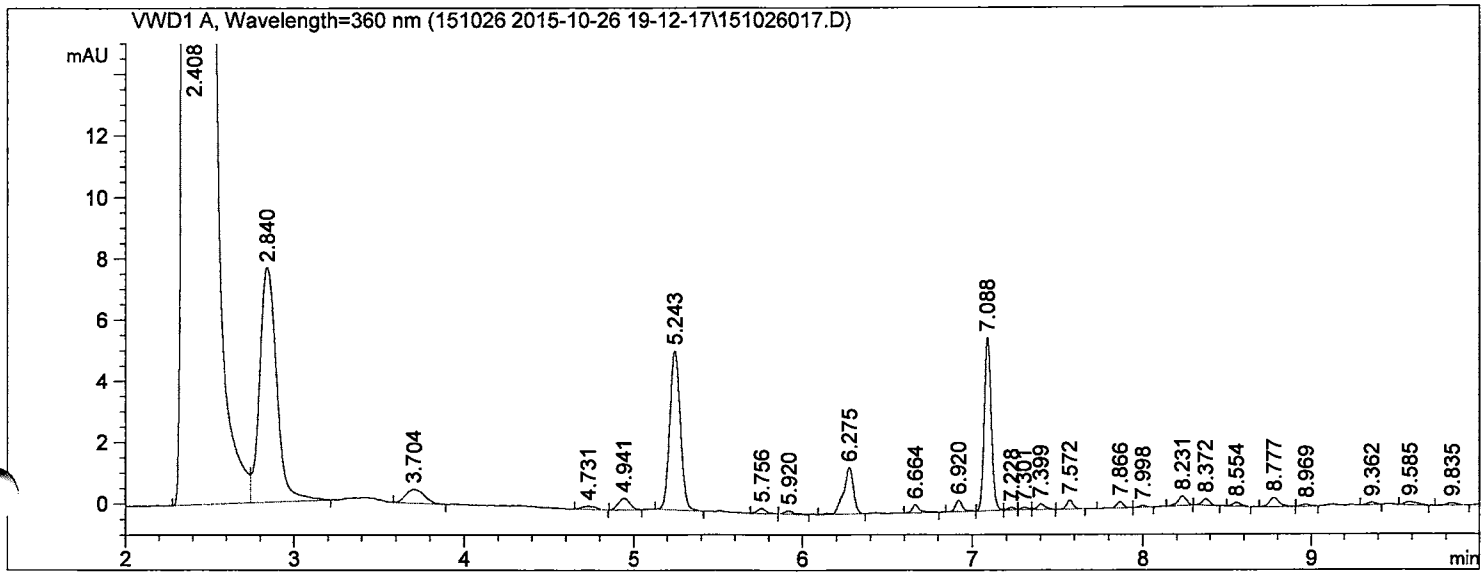
*** End of Report ***

Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026017.D
Sample Name: 061-025-15

==========

Acq. Operator : SYSTEM Seq. Line : 14
Acq. Instrument : Agilent 1260 Location : Vial 14
Injection Date : 10/26/2015 11:41:15 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-15; F5-07-1026-10411-Office Cubicle; 57.6L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.243	1	BB	22.47092	1.48143e-2	665.78194		Formaldehyde;50-00-0
6.275	1	BB	6.19879	1.89429e-2	234.84588		Acetaldehyde;75-07-0

Totals : 900.62781

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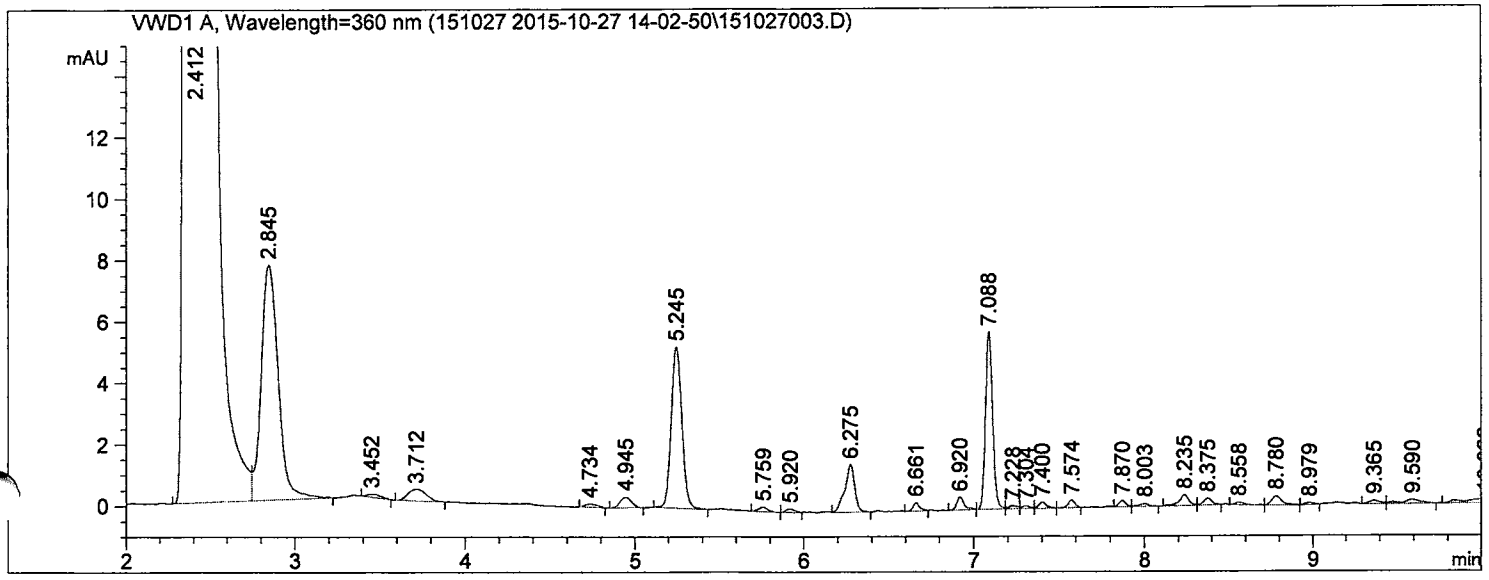
*** End of Report ***

Data File C:\CHEM32\1\DATA\151027 2015-10-27 14-02-50\151027003.D
Sample Name: 061-025-15

==========

Acq. Operator : SYSTEM Seq. Line : 3
Acq. Instrument : Agilent 1260 Location : Vial 3
Injection Date : 10/27/2015 2:36:53 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151027 2015-10-27 14-02-50\FORMALDEHYDE.M
Last changed : 10/27/2015 2:02:50 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-15; F5-07-1026-14011-office Cubicle; 57.6L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.245	1	BB	22.85513	1.48143e-2	677.16550		Formaldehyde;50-00-0
6.275	1	VB	6.27885	1.89429e-2	237.87901		Acetaldehyde;75-07-0

Totals : 915.04451

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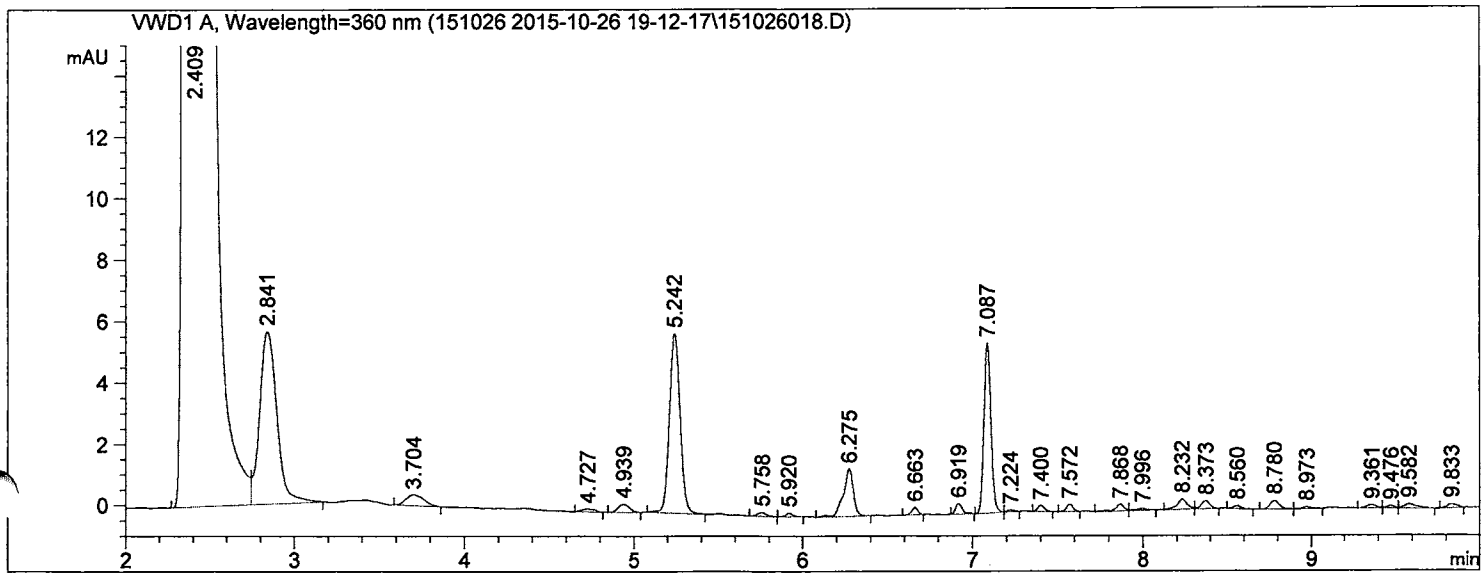
*** End of Report ***

Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026018.D
Sample Name: 061-025-16

==========

Acq. Operator : SYSTEM Seq. Line : 15
Acq. Instrument : Agilent 1260 Location : Vial 15
Injection Date : 10/26/2015 11:57:55 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-16; F5-08-1026-10151-Office Cubicle; 55.91L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.242	1	BB	25.74605	1.48143e-2	762.81945		Formaldehyde;50-00-0
6.275	1	BB	6.42175	1.89429e-2	243.29283		Acetaldehyde;75-07-0

Totals : 1006.11227

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*** End of Report ***

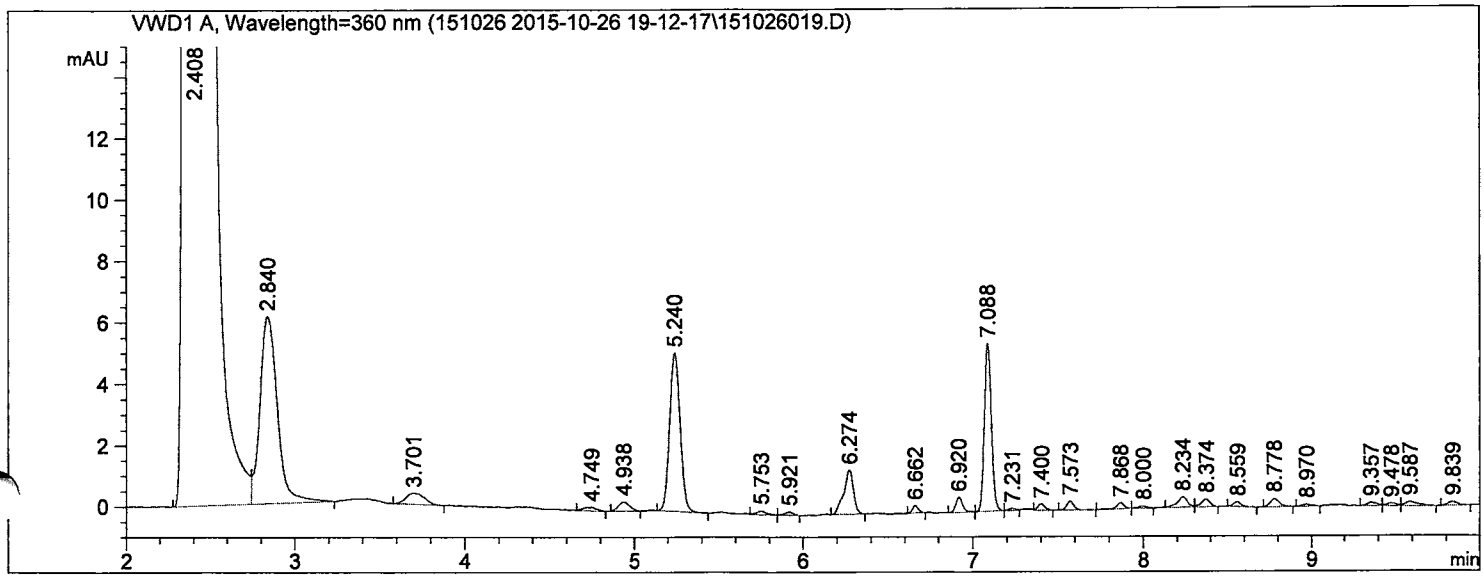
Data File C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\151026019.D
Sample Name: 061-025-17

==========

Acq. Operator : SYSTEM
Seq. Line : 16
Acq. Instrument : Agilent 1260
Location : Vial 16
Injection Date : 10/27/2015 12:14:37 AM
Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\151026 2015-10-26 19-12-17\FORMALDEHYDE.M
Last changed : 10/26/2015 7:12:17 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 10/27/2015 12:17:28 PM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA 061-025-17; F5-09-1026-10216-Office Cubicle; 56.56L



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 10/20/2015 10:18:21 AM
Multiplier : 2.000e3
Dilution : 1.0000
Sample Amount: : 1.00000 [ng] (not used in calc.)
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=360 nm

RetTime [min]	Sig	Type	Area [mAU*s]	Amt/Area	Amount [ng]	Grp	Name
5.240	1	BB	22.29841	1.48143e-2	660.67076		Formaldehyde;50-00-0
6.274	1	BB	5.74377	1.89429e-2	217.60707		Acetaldehyde;75-07-0

Totals : 878.27783

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*** End of Report ***

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Oct\
Data File : T151027_09.D
Acq On : 27 Oct 2015 6:38 pm
Operator : rgill
Sample : 061-025-01_US EPA; F081526: 5.7L
Misc : C5-01; 10221 Office Cubicle; 107ngBFB;10:1 split
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 28 12:05:35 2015
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K15\Desorb_Merged_2015.M
Quant Title : AB95168
QLast Update : Wed Jul 29 18:05:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.933	95	840361	107.00 ng	0.00
22) 1-Bromo-4-flourobenzen...	13.933	95	840361	107.00 ng	# 0.00
33) 1-Bromo-4-flourobenzen...	13.933	95	840361	107.00 ng	# 0.00
50) 1-Bromo-4-flourobenzen...	13.933	95	840361	107.00 ng	# 0.00
60) 1-Bromo-4-flourobenzen...	0.000	95	0m	107.00 ng	-13.94
82) 1-Bromo-4-flourobenzen...	13.933	95	840361	107.00 ng	# 0.00
Target Compounds					Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.	
3) Methyl methacrylate; 8...	0.000		0	N.D.	
4) Toluene; 108-88-3	0.000		0	N.D. d	
5) Tetrachloroethene; 127...	0.000		0	N.D.	
6) N,N-Dimethylformamide;...	0.000		0	N.D.	
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d	
8) Xylene {1}; 108-38-3	0.000		0	N.D. d	
9) Xylene {2}; 95-47-6	0.000		0	N.D. d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D.	
11) Styrene; 100-42-5	0.000		0	N.D.	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
13) Octanal; 124-13-0	0.000		0	N.D. d	
14) Phenol; 108-95-2	0.000		0	N.D. d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
17) Nonanal; 124-19-6	0.000		0	N.D. d	
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
19) Naphthalene; 91-20-3	0.000		0	N.D.	
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
21) Caprolactam; 105-60-2	23.695	113	99730	49.01 ng	92
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
24) Ethylene glycol; 107-21-1	0.000		0	N.D.	
25) Butyl acetate; 123-86-4	0.000		0	N.D. d	
26) Propylene glycol; 57-55-6	0.000		0	N.D. d	
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
31) Dodecanol; 112-53-8	0.000		0	N.D. d	
32) Butylated hydroxytolue...	0.000		0	N.D.	
34) n-Pentane; 109-66-0	0.000		0	N.D. d	
35) Ethanol; 64-17-5	0.000		0	N.D. d	
36) 2-Propanone(acetone); ...	0.000		0	N.D. d	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Cyclohexane; 110-82-7	0.000		0	N.D.	

45)	Benzene; 71-43-2	0.000	0	N.D. d
46)	2-Methyl-1-propanol; 7...	0.000	0	N.D.
47)	1-Butanol; 71-36-3	0.000	0	N.D.
48)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
49)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
51)	n-Butanal;123-72-8	0.000	0	N.D.
52)	Pentanal; 110-62-3	0.000	0	N.D. d
53)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
54)	Hexanal; 66-25-1	0.000	0	N.D. d
55)	2-Furancarboxaldehyde;...	0.000	0	N.D.
56)	4-Heptanone; 123-19-3	0.000	0	N.D. d
57)	2-Heptanone; 110-43-0	0.000	0	N.D. d
58)	Heptanal; 111-71-7	0.000	0	N.D.
59)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
61)	Octane; 111-65-9	0.000	0	N.D. d
62)	n-Nonane; 111-84-2	0.000	0	N.D.
63)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
64)	Cyclohexanone; 108-94-1	0.000	0	N.D.
65)	Camphene; 5794-03-6	0.000	0	N.D. d
66)	beta-Pinene; 19902-08-0	0.000	0	N.D.
67)	n-Decane; 124-18-5	0.000	0	N.D.
68)	.alpha.-Methylstyrene;...	0.000	0	N.D.
69)	3-Carene; 13466-78-9	0.000	0	N.D.
70)	d-Limonene; 5989-27-5	0.000	0	N.D. d
71)	p-Cymene; 99-87-6	0.000	0	N.D.
72)	1-Undecene; 821-95-4	0.000	0	N.D.
73)	n-Undecane; 1120-21-4	0.000	0	N.D.
74)	n-Dodecane; 112-40-3	0.000	0	N.D. d
75)	Dodecamethylpentasilox...	0.000	0	N.D.
76)	n-Tridecane; 629-50-5	0.000	0	N.D.
77)	Benzothiazole; 95-16-9	0.000	0	N.D. d
78)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
79)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
80)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
81)	n-Heptadecane; 629-78-7	0.000	0	N.D. d
83)	Propyl acetate; 109-60-4	0.000	0	N.D.
84)	Isobutyl acetate;110-19-0	0.000	0	N.D. d
85)	PGMEA; 108-65-6	0.000	0	N.D. d
86)	1,3-Dichloro-2-propano...	0.000	0	N.D.
87)	DPGME isomer 1; 34590-...	0.000	0	N.D.
88)	DPGME isomer 2; 34590-...	0.000	0	N.D. d
89)	DPGME isomer 3; 34590-...	0.000	0	N.D. d
90)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
91)	Benzenemethanol; 100-51-6	0.000	0	N.D.
92)	Propylene carbonate; 1...	0.000	0	N.D.
93)	2,2'-Oxybis(1-propanol...	0.000	0	N.D. d
94)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D. d
95)	Octanoic acid; 124-07-2	0.000	0	N.D. d
96)	alpha-Terpineol; 10482...	0.000	0	N.D.
97)	Texanol 1; 25265-77-4-IS1	0.000	0	N.D. d
98)	Texanol 3; 25265-77-4-IS3	0.000	0	N.D. d
99)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
100)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D. d
101)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2015.M Wed Oct 28 12:05:39 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Oct\
Data File : T151027_10.D
Acq On : 27 Oct 2015 7:24 pm
Operator : rgill
Sample : 061-025-02_US EPA; F090370: 5.47L
Misc : C5-02; 10332 Office Cubicle; 107ngBFB;10:1 split
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 28 12:06:59 2015
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K15\Desorb_Merged_2015.M
Quant Title : AB95168
QLast Update : Wed Jul 29 18:05:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.933	95	844338	107.00 ng	0.00
22) 1-Bromo-4-flourobenzen...	13.933	95	844338	107.00 ng	# 0.00
33) 1-Bromo-4-flourobenzen...	13.933	95	844338	107.00 ng	# 0.00
50) 1-Bromo-4-flourobenzen...	13.933	95	844338	107.00 ng	# 0.00
60) 1-Bromo-4-flourobenzen...	13.933	95	844338	107.00 ng	# 0.00
82) 1-Bromo-4-flourobenzen...	13.933	95	844338	107.00 ng	# 0.00
Target Compounds					Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.	
3) Methyl methacrylate; 8...	0.000		0	N.D.	
4) Toluene; 108-88-3	0.000		0	N.D. d	
5) Tetrachloroethene; 127...	0.000		0	N.D.	
6) N,N-Dimethylformamide;...	0.000		0	N.D.	
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d	
8) Xylene {1}; 108-38-3	0.000		0	N.D. d	
9) Xylene {2}; 95-47-6	0.000		0	N.D. d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D.	
11) Styrene; 100-42-5	0.000		0	N.D.	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
13) Octanal; 124-13-0	0.000		0	N.D. d	
14) Phenol; 108-95-2	0.000		0	N.D. d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
17) Nonanal; 124-19-6	0.000		0	N.D. d	
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
19) Naphthalene; 91-20-3	0.000		0	N.D.	
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
21) Caprolactam; 105-60-2	23.695	113	121794	59.65 ng	90
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
24) Ethylene glycol; 107-21-1	0.000		0	N.D. d	
25) Butyl acetate; 123-86-4	0.000		0	N.D. d	
26) Propylene glycol; 57-55-6	0.000		0	N.D. d	
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
31) Dodecanol; 112-53-8	0.000		0	N.D. d	
32) Butylated hydroxytolue...	0.000		0	N.D.	
34) n-Pentane; 109-66-0	0.000		0	N.D. d	
35) Ethanol; 64-17-5	0.000		0	N.D. d	
36) 2-Propanone(acetone); ...	0.000		0	N.D. d	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D.	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Cyclohexane; 110-82-7	0.000		0	N.D.	

45)	Benzene; 71-43-2	0.000	0	N.D. d
46)	2-Methyl-1-propanol; 7...	0.000	0	N.D.
47)	1-Butanol; 71-36-3	0.000	0	N.D. d
48)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
49)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
51)	n-Butanal;123-72-8	0.000	0	N.D.
52)	Pentanal; 110-62-3	0.000	0	N.D. d
53)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
54)	Hexanal; 66-25-1	0.000	0	N.D. d
55)	2-Furancarboxaldehyde;...	0.000	0	N.D.
56)	4-Heptanone; 123-19-3	0.000	0	N.D. d
57)	2-Heptanone; 110-43-0	0.000	0	N.D. d
58)	Heptanal; 111-71-7	0.000	0	N.D.
59)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
61)	Octane; 111-65-9	0.000	0	N.D. d
62)	n-Nonane; 111-84-2	0.000	0	N.D. d
63)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
64)	Cyclohexanone; 108-94-1	0.000	0	N.D.
65)	Camphene; 5794-03-6	0.000	0	N.D. d
66)	beta-Pinene; 19902-08-0	0.000	0	N.D.
67)	n-Decane; 124-18-5	0.000	0	N.D. d
68)	.alpha.-Methylstyrene;...	0.000	0	N.D.
69)	3-Carene; 13466-78-9	0.000	0	N.D.
70)	d-Limonene; 5989-27-5	0.000	0	N.D. d
71)	p-Cymene; 99-87-6	0.000	0	N.D.
72)	1-Undecene; 821-95-4	0.000	0	N.D.
73)	n-Undecane; 1120-21-4	0.000	0	N.D.
74)	n-Dodecane; 112-40-3	0.000	0	N.D. d
75)	**Dodecamethylpentasilox...**	**0.000**	**0**	**N.D.**
76)	n-Tridecane; 629-50-5	0.000	0	N.D.
77)	Benzothiazole; 95-16-9	0.000	0	N.D.
78)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
79)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
80)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
81)	n-Heptadecane; 629-78-7	0.000	0	N.D. d
83)	Propyl acetate; 109-60-4	0.000	0	N.D.
84)	Isobutyl acetate;110-19-0	0.000	0	N.D. d
85)	PGMEA; 108-65-6	0.000	0	N.D. d
86)	**1,3-Dichloro-2-propano...**	**0.000**	**0**	**N.D.**
87)	DPGME isomer 1; 34590-...	0.000	0	N.D.
88)	DPGME isomer 2; 34590-...	0.000	0	N.D.
89)	DPGME isomer 3; 34590-...	0.000	0	N.D.
90)	**1,1'-Oxybis-2-propanol...**	**0.000**	**0**	**N.D.**
91)	Benzenemethanol; 100-51-6	0.000	0	N.D.
92)	Propylene carbonate; 1...	0.000	0	N.D.
93)	**2,2'-Oxybis(1-propanol...**	**0.000**	**0**	**N.D. d**
94)	**2-(2-Hydroxypropoxy)1-...**	**0.000**	**0**	**N.D. d**
95)	Octanoic acid; 124-07-2	0.000	0	N.D. d
96)	alpha-Terpineol; 10482...	0.000	0	N.D.
97)	Texanol 1; 25265-77-4-IS1	0.000	0	N.D. d
98)	Texanol 3; 25265-77-4-IS3	0.000	0	N.D. d
99)	**1-Dodecanamine, N,N-di...**	**0.000**	**0**	**N.D.**
100)	**3-Methyl-1,1'-biphenyl...**	**0.000**	**0**	**N.D.**
101)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2015.M Wed Oct 28 12:07:03 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Oct\
Data File : T151028_01.D
Acq On : 28 Oct 2015 11:58 am
Operator : rgill
Sample : 061-025-03_US EPA; F089741: 5.05L
Misc : C5-03; 10344 Office Cubicle; 107ngBFB;10:1 split
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 12:28:33 2015
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K15\Desorb_Merged_2015.M
Quant Title : AB95168
QLast Update : Wed Jul 29 18:05:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	13.933	95	912667	107.00	ng	0.00
22) 1-Bromo-4-flourobenzen...	13.933	95	912667	107.00	ng	# 0.00
33) 1-Bromo-4-flourobenzen...	13.933	95	912667	107.00	ng	# 0.00
50) 1-Bromo-4-flourobenzen...	13.933	95	912667	107.00	ng	# 0.00
60) 1-Bromo-4-flourobenzen...	13.933	95	912667	107.00	ng	# 0.00
82) 1-Bromo-4-flourobenzen...	13.933	95	912667	107.00	ng	# 0.00
Target Compounds						Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.		
3) Methyl methacrylate; 8...	0.000		0	N.D.		
4) Toluene; 108-88-3	0.000		0	N.D. d		
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d		
8) Xylene {1}; 108-38-3	0.000		0	N.D. d		
9) Xylene {2}; 95-47-6	0.000		0	N.D. d		
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D.		
11) Styrene; 100-42-5	0.000		0	N.D.		
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d		
13) Octanal; 124-13-0	0.000		0	N.D. d		
14) Phenol; 108-95-2	0.000		0	N.D. d		
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d		
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
17) Nonanal; 124-19-6	0.000		0	N.D. d		
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d		
19) Naphthalene; 91-20-3	0.000		0	N.D.		
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
21) Caprolactam; 105-60-2	23.695	113	87876	39.71	ng	91
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d		
24) Ethylene glycol; 107-21-1	0.000		0	N.D. d		
25) Butyl acetate; 123-86-4	0.000		0	N.D. d		
26) Propylene glycol; 57-55-6	0.000		0	N.D. d		
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d		
28) Hexanoic acid; 142-62-1	0.000		0	N.D. d		
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d		
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d		
31) Dodecanol; 112-53-8	0.000		0	N.D. d		
32) Butylated hydroxytolue...	0.000		0	N.D.		
34) n-Pentane; 109-66-0	0.000		0	N.D. d		
35) Ethanol; 64-17-5	0.000		0	N.D. d		
36) 2-Propanone(acetone); ...	0.000		0	N.D. d		
37) 2-Propanol; 67-63-0	0.000		0	N.D. d		
38) Carbon disulfide; 75-15-0	0.000		0	N.D.		
39) Dichloromethane; 75-09-2	0.000		0	N.D. d		
40) n-Hexane; 110-54-3	0.000		0	N.D.		
41) Vinyl acetate; 108-05-4	0.000		0	N.D. d		
42) 2-Butanone; 78-93-3	0.000		0	N.D. d		
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d		
44) Cyclohexane; 110-82-7	0.000		0	N.D.		

45)	Benzene; 71-43-2	0.000	0	N.D. d
46)	2-Methyl-1-propanol; 7...	0.000	0	N.D.
47)	1-Butanol; 71-36-3	0.000	0	N.D. d
48)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
49)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
51)	n-Butanal;123-72-8	0.000	0	N.D.
52)	Pentanal; 110-62-3	0.000	0	N.D. d
53)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
54)	Hexanal; 66-25-1	0.000	0	N.D. d
55)	2-Furancarboxaldehyde;...	0.000	0	N.D.
56)	4-Heptanone; 123-19-3	0.000	0	N.D. d
57)	2-Heptanone; 110-43-0	0.000	0	N.D. d
58)	Heptanal; 111-71-7	0.000	0	N.D.
59)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
61)	Octane; 111-65-9	0.000	0	N.D. d
62)	n-Nonane; 111-84-2	0.000	0	N.D. d
63)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
64)	Cyclohexanone; 108-94-1	0.000	0	N.D.
65)	Camphene; 5794-03-6	0.000	0	N.D. d
66)	beta-Pinene; 19902-08-0	0.000	0	N.D.
67)	n-Decane; 124-18-5	0.000	0	N.D.
68)	.alpha.-Methylstyrene;...	0.000	0	N.D.
69)	3-Carene; 13466-78-9	0.000	0	N.D.
70)	d-Limonene; 5989-27-5	0.000	0	N.D.
71)	p-Cymene; 99-87-6	0.000	0	N.D.
72)	1-Undecene; 821-95-4	0.000	0	N.D.
73)	n-Undecane; 1120-21-4	0.000	0	N.D.
74)	n-Dodecane; 112-40-3	0.000	0	N.D.
75)	Dodecamethylpentasilox...	0.000	0	N.D.
76)	n-Tridecane; 629-50-5	0.000	0	N.D.
77)	Benzothiazole; 95-16-9	0.000	0	N.D.
78)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
79)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
80)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
81)	n-Heptadecane; 629-78-7	0.000	0	N.D. d
83)	Propyl acetate; 109-60-4	0.000	0	N.D.
84)	Isobutyl acetate;110-19-0	0.000	0	N.D. d
85)	PGMEA; 108-65-6	0.000	0	N.D. d
86)	1,3-Dichloro-2-propano...	0.000	0	N.D.
87)	DPGME isomer 1; 34590-...	0.000	0	N.D.
88)	DPGME isomer 2; 34590-...	0.000	0	N.D.
89)	DPGME isomer 3; 34590-...	0.000	0	N.D.
90)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
91)	Benzenemethanol; 100-51-6	0.000	0	N.D.
92)	Propylene carbonate; 1...	0.000	0	N.D.
93)	2,2'-Oxybis(1-propanol...	0.000	0	N.D. d
94)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D. d
95)	Octanoic acid; 124-07-2	0.000	0	N.D. d
96)	alpha-Terpineol; 10482...	0.000	0	N.D.
97)	Texanol 1; 25265-77-4-IS1	0.000	0	N.D. d
98)	Texanol 3; 25265-77-4-IS3	0.000	0	N.D. d
99)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
100)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
101)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2015.M Wed Oct 28 12:28:37 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Oct\
Data File : T151027_12.D
Acq On : 27 Oct 2015 8:42 pm
Operator : rgill
Sample : 061-025-04_US EPA; F079068: 5.89L
Misc : C5-04; 10366 Office Cubicle; 107ngBFB;10:1 split
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 28 12:08:03 2015
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K15\Desorb_Merged_2015.M
Quant Title : AB95168
QLast Update : Wed Jul 29 18:05:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.933	95	879698	107.00 ng	0.00
22) 1-Bromo-4-flourobenzen...	13.933	95	879698	107.00 ng	# 0.00
33) 1-Bromo-4-flourobenzen...	13.933	95	879698	107.00 ng	# 0.00
50) 1-Bromo-4-flourobenzen...	13.933	95	879698	107.00 ng	# 0.00
60) 1-Bromo-4-flourobenzen...	13.933	95	879698	107.00 ng	# 0.00
82) 1-Bromo-4-flourobenzen...	13.933	95	879698	107.00 ng	# 0.00
Target Compounds					Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.	
3) Methyl methacrylate; 8...	0.000		0	N.D.	
4) Toluene; 108-88-3	0.000		0	N.D. d	
5) Tetrachloroethene; 127...	0.000		0	N.D.	
6) N,N-Dimethylformamide;...	0.000		0	N.D.	
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d	
8) Xylene {1}; 108-38-3	0.000		0	N.D. d	
9) Xylene {2}; 95-47-6	0.000		0	N.D. d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D.	
11) Styrene; 100-42-5	0.000		0	N.D.	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
13) Octanal; 124-13-0	0.000		0	N.D. d	
14) Phenol; 108-95-2	0.000		0	N.D. d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
17) Nonanal; 124-19-6	0.000		0	N.D. d	
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
19) Naphthalene; 91-20-3	0.000		0	N.D.	
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
21) Caprolactam; 105-60-2	23.690	113	139100	65.44 ng	91
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
24) Ethylene glycol; 107-21-1	0.000		0	N.D. d	
25) Butyl acetate; 123-86-4	0.000		0	N.D. d	
26) Propylene glycol; 57-55-6	0.000		0	N.D. d	
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
31) Dodecanol; 112-53-8	0.000		0	N.D. d	
32) Butylated hydroxytolue...	0.000		0	N.D.	
34) n-Pentane; 109-66-0	0.000		0	N.D. d	
35) Ethanol; 64-17-5	0.000		0	N.D. d	
36) 2-Propanone(acetone); ...	0.000		0	N.D. d	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D.	
40) n-Hexane; 110-54-3	0.000		0	N.D. d	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Cyclohexane; 110-82-7	0.000		0	N.D.	

45)	Benzene; 71-43-2	0.000	0	N.D. d
46)	2-Methyl-1-propanol; 7...	0.000	0	N.D. d
47)	1-Butanol; 71-36-3	0.000	0	N.D. d
48)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
49)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
51)	n-Butanal;123-72-8	0.000	0	N.D.
52)	Pentanal; 110-62-3	0.000	0	N.D. d
53)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
54)	Hexanal; 66-25-1	0.000	0	N.D. d
55)	2-Furancarboxaldehyde;...	0.000	0	N.D. d
56)	4-Heptanone; 123-19-3	0.000	0	N.D. d
57)	2-Heptanone; 110-43-0	0.000	0	N.D. d
58)	Heptanal; 111-71-7	0.000	0	N.D. d
59)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
61)	Octane; 111-65-9	0.000	0	N.D. d
62)	n-Nonane; 111-84-2	0.000	0	N.D. d
63)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
64)	Cyclohexanone; 108-94-1	0.000	0	N.D.
65)	Camphene; 5794-03-6	0.000	0	N.D. d
66)	beta-Pinene; 19902-08-0	0.000	0	N.D.
67)	n-Decane; 124-18-5	0.000	0	N.D. d
68)	.alpha.-Methylstyrene;...	0.000	0	N.D.
69)	3-Carene; 13466-78-9	0.000	0	N.D.
70)	d-Limonene; 5989-27-5	0.000	0	N.D. d
71)	p-Cymene; 99-87-6	0.000	0	N.D.
72)	1-Undecene; 821-95-4	0.000	0	N.D.
73)	n-Undecane; 1120-21-4	0.000	0	N.D. d
74)	n-Dodecane; 112-40-3	0.000	0	N.D. d
75)	Dodecamethylpentasilox...	0.000	0	N.D.
76)	n-Tridecane; 629-50-5	0.000	0	N.D.
77)	Benzothiazole; 95-16-9	0.000	0	N.D.
78)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
79)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
80)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
81)	n-Heptadecane; 629-78-7	0.000	0	N.D. d
83)	Propyl acetate; 109-60-4	0.000	0	N.D. d
84)	Isobutyl acetate;110-19-0	0.000	0	N.D. d
85)	PGMEA; 108-65-6	0.000	0	N.D. d
86)	1,3-Dichloro-2-propano...	0.000	0	N.D.
87)	DPGME isomer 1; 34590-...	0.000	0	N.D.
88)	DPGME isomer 2; 34590-...	0.000	0	N.D.
89)	DPGME isomer 3; 34590-...	0.000	0	N.D.
90)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
91)	Benzenemethanol; 100-51-6	0.000	0	N.D.
92)	Propylene carbonate; 1...	0.000	0	N.D.
93)	2,2'-Oxybis(1-propanol...	0.000	0	N.D.
94)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D.
95)	Octanoic acid; 124-07-2	0.000	0	N.D. d
96)	alpha-Terpineol; 10482...	0.000	0	N.D.
97)	Texanol 1; 25265-77-4-IS1	0.000	0	N.D. d
98)	Texanol 3; 25265-77-4-IS3	0.000	0	N.D. d
99)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
100)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
101)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2015.M Wed Oct 28 12:08:07 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Oct\
Data File : T151027_13.D
Acq On : 27 Oct 2015 9:29 pm
Operator : rgill
Sample : 061-025-05_US EPA; F077485: 5.67L
Misc : C5-05; 10448 Office Cubicle; 107ngBFB;10:1 split
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 28 12:09:07 2015
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K15\Desorb_Merged_2015.M
Quant Title : AB95168
QLast Update : Wed Jul 29 18:05:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	13.933	95	798214	107.00	ng	0.00
22) 1-Bromo-4-flourobenzen...	13.933	95	798214	107.00	ng	# 0.00
33) 1-Bromo-4-flourobenzen...	13.933	95	798214	107.00	ng	# 0.00
50) 1-Bromo-4-flourobenzen...	13.933	95	798214	107.00	ng	# 0.00
60) 1-Bromo-4-flourobenzen...	13.933	95	798214	107.00	ng	# 0.00
82) 1-Bromo-4-flourobenzen...	13.933	95	798214	107.00	ng	# 0.00
Target Compounds						Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.		
3) Methyl methacrylate; 8...	0.000		0	N.D.		
4) Toluene; 108-88-3	0.000		0	N.D. d		
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d		
8) Xylene {1}; 108-38-3	0.000		0	N.D. d		
9) Xylene {2}; 95-47-6	0.000		0	N.D. d		
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D.		
11) Styrene; 100-42-5	0.000		0	N.D.		
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d		
13) Octanal; 124-13-0	0.000		0	N.D. d		
14) Phenol; 108-95-2	0.000		0	N.D. d		
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d		
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
17) Nonanal; 124-19-6	0.000		0	N.D. d		
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d		
19) Naphthalene; 91-20-3	0.000		0	N.D. d		
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
21) Caprolactam; 105-60-2	23.695	113	99114	51.29	ng	93
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d		
24) Ethylene glycol; 107-21-1	0.000		0	N.D.		
25) Butyl acetate; 123-86-4	0.000		0	N.D.		
26) Propylene glycol; 57-55-6	0.000		0	N.D. d		
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d		
28) Hexanoic acid; 142-62-1	0.000		0	N.D. d		
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d		
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d		
31) Dodecanol; 112-53-8	0.000		0	N.D. d		
32) Butylated hydroxytolue...	0.000		0	N.D.		
34) n-Pentane; 109-66-0	0.000		0	N.D. d		
35) Ethanol; 64-17-5	0.000		0	N.D. d		
36) 2-Propanone(acetone); ...	0.000		0	N.D. d		
37) 2-Propanol; 67-63-0	0.000		0	N.D. d		
38) Carbon disulfide; 75-15-0	0.000		0	N.D.		
39) Dichloromethane; 75-09-2	0.000		0	N.D. d		
40) n-Hexane; 110-54-3	0.000		0	N.D.		
41) Vinyl acetate; 108-05-4	0.000		0	N.D.		
42) 2-Butanone; 78-93-3	0.000		0	N.D. d		
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d		
44) Cyclohexane; 110-82-7	0.000		0	N.D.		

45)	Benzene; 71-43-2	0.000	0	N.D. d
46)	2-Methyl-1-propanol; 7...	0.000	0	N.D. d
47)	1-Butanol; 71-36-3	0.000	0	N.D.
48)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
49)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
51)	n-Butanal;123-72-8	0.000	0	N.D.
52)	Pentanal; 110-62-3	0.000	0	N.D.
53)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
54)	Hexanal; 66-25-1	0.000	0	N.D. d
55)	2-Furancarboxaldehyde;...	0.000	0	N.D.
56)	4-Heptanone; 123-19-3	0.000	0	N.D. d
57)	2-Heptanone; 110-43-0	0.000	0	N.D. d
58)	Heptanal; 111-71-7	0.000	0	N.D.
59)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
61)	Octane; 111-65-9	0.000	0	N.D. d
62)	n-Nonane; 111-84-2	0.000	0	N.D. d
63)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
64)	Cyclohexanone; 108-94-1	0.000	0	N.D.
65)	Camphene; 5794-03-6	0.000	0	N.D. d
66)	beta-Pinene; 19902-08-0	0.000	0	N.D.
67)	n-Decane; 124-18-5	0.000	0	N.D. d
68)	.alpha.-Methylstyrene;...	0.000	0	N.D.
69)	3-Carene; 13466-78-9	0.000	0	N.D.
70)	d-Limonene; 5989-27-5	0.000	0	N.D. d
71)	p-Cymene; 99-87-6	0.000	0	N.D.
72)	1-Undecene; 821-95-4	0.000	0	N.D.
73)	n-Undecane; 1120-21-4	0.000	0	N.D.
74)	n-Dodecane; 112-40-3	0.000	0	N.D. d
75)	Dodecamethylpentasilox...	0.000	0	N.D.
76)	n-Tridecane; 629-50-5	0.000	0	N.D.
77)	Benzothiazole; 95-16-9	0.000	0	N.D.
78)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
79)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
80)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
81)	n-Heptadecane; 629-78-7	0.000	0	N.D. d
83)	Propyl acetate; 109-60-4	0.000	0	N.D. d
84)	Isobutyl acetate;110-19-0	0.000	0	N.D. d
85)	PGMEA; 108-65-6	0.000	0	N.D. d
86)	1,3-Dichloro-2-propano...	0.000	0	N.D.
87)	DPGME isomer 1; 34590-...	0.000	0	N.D.
88)	DPGME isomer 2; 34590-...	0.000	0	N.D.
89)	DPGME isomer 3; 34590-...	0.000	0	N.D.
90)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
91)	Benzenemethanol; 100-51-6	0.000	0	N.D.
92)	Propylene carbonate; 1...	0.000	0	N.D.
93)	2,2'-Oxybis(1-propanol...	0.000	0	N.D.
94)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D.
95)	Octanoic acid; 124-07-2	0.000	0	N.D. d
96)	alpha-Terpineol; 10482...	0.000	0	N.D.
97)	Texanol 1; 25265-77-4-IS1	0.000	0	N.D. d
98)	Texanol 3; 25265-77-4-IS3	0.000	0	N.D. d
99)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
100)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
101)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2015.M Wed Oct 28 12:09:12 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Oct\
Data File : T151027_14.D
Acq On : 27 Oct 2015 10:15 pm
Operator : rgill
Sample : 061-025-06_US EPA; A10955: 5.52L
Misc : C5-06; 10146 Office Cubicle; 107ngBFB;10:1 split
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 12:10:07 2015
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K15\Desorb_Merged_2015.M
Quant Title : AB95168
QLast Update : Wed Jul 29 18:05:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	13.933	95	843495	107.00	ng	0.00
22) 1-Bromo-4-flourobenzen...	13.933	95	843495	107.00	ng	# 0.00
33) 1-Bromo-4-flourobenzen...	13.933	95	843495	107.00	ng	# 0.00
50) 1-Bromo-4-flourobenzen...	13.933	95	843495	107.00	ng	# 0.00
60) 1-Bromo-4-flourobenzen...	13.933	95	843495	107.00	ng	# 0.00
82) 1-Bromo-4-flourobenzen...	13.933	95	843495	107.00	ng	# 0.00
Target Compounds						Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.		
3) Methyl methacrylate; 8...	0.000		0	N.D.		
4) Toluene; 108-88-3	0.000		0	N.D.	d	
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	0.000		0	N.D.	d	
8) Xylene {1}; 108-38-3	0.000		0	N.D.	d	
9) Xylene {2}; 95-47-6	0.000		0	N.D.	d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D.		
11) Styrene; 100-42-5	0.000		0	N.D.	d	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D.	d	
13) Octanal; 124-13-0	0.000		0	N.D.	d	
14) Phenol; 108-95-2	0.000		0	N.D.	d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	d	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
17) Nonanal; 124-19-6	0.000		0	N.D.	d	
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	d	
19) Naphthalene; 91-20-3	0.000		0	N.D.		
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
21) Caprolactam; 105-60-2	23.690	113	130014	63.78	ng	90
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	d	
24) Ethylene glycol; 107-21-1	0.000		0	N.D.	d	
25) Butyl acetate; 123-86-4	0.000		0	N.D.	d	
26) Propylene glycol; 57-55-6	0.000		0	N.D.	d	
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.	d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D.	d	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	d	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	d	
31) Dodecanol; 112-53-8	0.000		0	N.D.	d	
32) Butylated hydroxytolue...	0.000		0	N.D.		
34) n-Pentane; 109-66-0	0.000		0	N.D.	d	
35) Ethanol; 64-17-5	0.000		0	N.D.	d	
36) 2-Propanone(acetone); ...	0.000		0	N.D.	d	
37) 2-Propanol; 67-63-0	0.000		0	N.D.	d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.		
39) Dichloromethane; 75-09-2	0.000		0	N.D.		
40) n-Hexane; 110-54-3	0.000		0	N.D.		
41) Vinyl acetate; 108-05-4	0.000		0	N.D.		
42) 2-Butanone; 78-93-3	0.000		0	N.D.	d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D.	d	
44) Cyclohexane; 110-82-7	0.000		0	N.D.		

45)	Benzene; 71-43-2	0.000	0	N.D. d
46)	2-Methyl-1-propanol; 7...	0.000	0	N.D.
47)	1-Butanol; 71-36-3	0.000	0	N.D. d
48)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
49)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
51)	n-Butanal;123-72-8	0.000	0	N.D.
52)	Pentanal; 110-62-3	0.000	0	N.D. d
53)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
54)	Hexanal; 66-25-1	0.000	0	N.D. d
55)	2-Furancarboxaldehyde;...	0.000	0	N.D.
56)	4-Heptanone; 123-19-3	0.000	0	N.D. d
57)	2-Heptanone; 110-43-0	0.000	0	N.D. d
58)	Heptanal; 111-71-7	0.000	0	N.D.
59)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
61)	Octane; 111-65-9	0.000	0	N.D. d
62)	n-Nonane; 111-84-2	0.000	0	N.D. d
63)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
64)	Cyclohexanone; 108-94-1	0.000	0	N.D.
65)	Camphene; 5794-03-6	0.000	0	N.D. d
66)	beta-Pinene; 19902-08-0	0.000	0	N.D.
67)	n-Decane; 124-18-5	0.000	0	N.D. d
68)	.alpha.-Methylstyrene;...	0.000	0	N.D.
69)	3-Carene; 13466-78-9	0.000	0	N.D.
70)	d-Limonene; 5989-27-5	0.000	0	N.D. d
71)	p-Cymene; 99-87-6	0.000	0	N.D.
72)	1-Undecene; 821-95-4	0.000	0	N.D.
73)	n-Undecane; 1120-21-4	0.000	0	N.D. d
74)	n-Dodecane; 112-40-3	0.000	0	N.D. d
75)	Dodecamethylpentasilox...	0.000	0	N.D.
76)	n-Tridecane; 629-50-5	0.000	0	N.D. d
77)	Benzothiazole; 95-16-9	0.000	0	N.D.
78)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
79)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
80)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
81)	n-Heptadecane; 629-78-7	0.000	0	N.D. d
83)	Propyl acetate; 109-60-4	0.000	0	N.D. d
84)	Isobutyl acetate;110-19-0	0.000	0	N.D. d
85)	PGMEA; 108-65-6	0.000	0	N.D. d
86)	1,3-Dichloro-2-propano...	0.000	0	N.D.
87)	DPGME isomer 1; 34590-...	0.000	0	N.D.
88)	DPGME isomer 2; 34590-...	0.000	0	N.D.
89)	DPGME isomer 3; 34590-...	0.000	0	N.D.
90)	1,1'-Oxybis-2-propanol...	0.000	0	N.D. d
91)	Benzenemethanol; 100-51-6	0.000	0	N.D.
92)	Propylene carbonate; 1...	0.000	0	N.D.
93)	2,2'-Oxybis(1-propanol...	0.000	0	N.D.
94)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D.
95)	Octanoic acid; 124-07-2	0.000	0	N.D. d
96)	alpha-Terpineol; 10482...	0.000	0	N.D.
97)	Texanol 1; 25265-77-4-IS1	0.000	0	N.D. d
98)	Texanol 3; 25265-77-4-IS3	0.000	0	N.D. d
99)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
100)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
101)	TXIB; 6846-50-0	0.000	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2015.M Wed Oct 28 12:10:11 2015

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2015\Oct\
Data File : T151027_15.D
Acq On : 27 Oct 2015 11:01 pm
Operator : rgill
Sample : 061-025-07_US EPA; A10975: 6.06L
Misc : C5-07; 10411 Office Cubicle; 107ngBFB;10:1 split
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 28 12:11:13 2015
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K15\Desorb_Merged_2015.M
Quant Title : AB95168
QLast Update : Wed Jul 29 18:05:39 2015
Response via : Initial Calibration

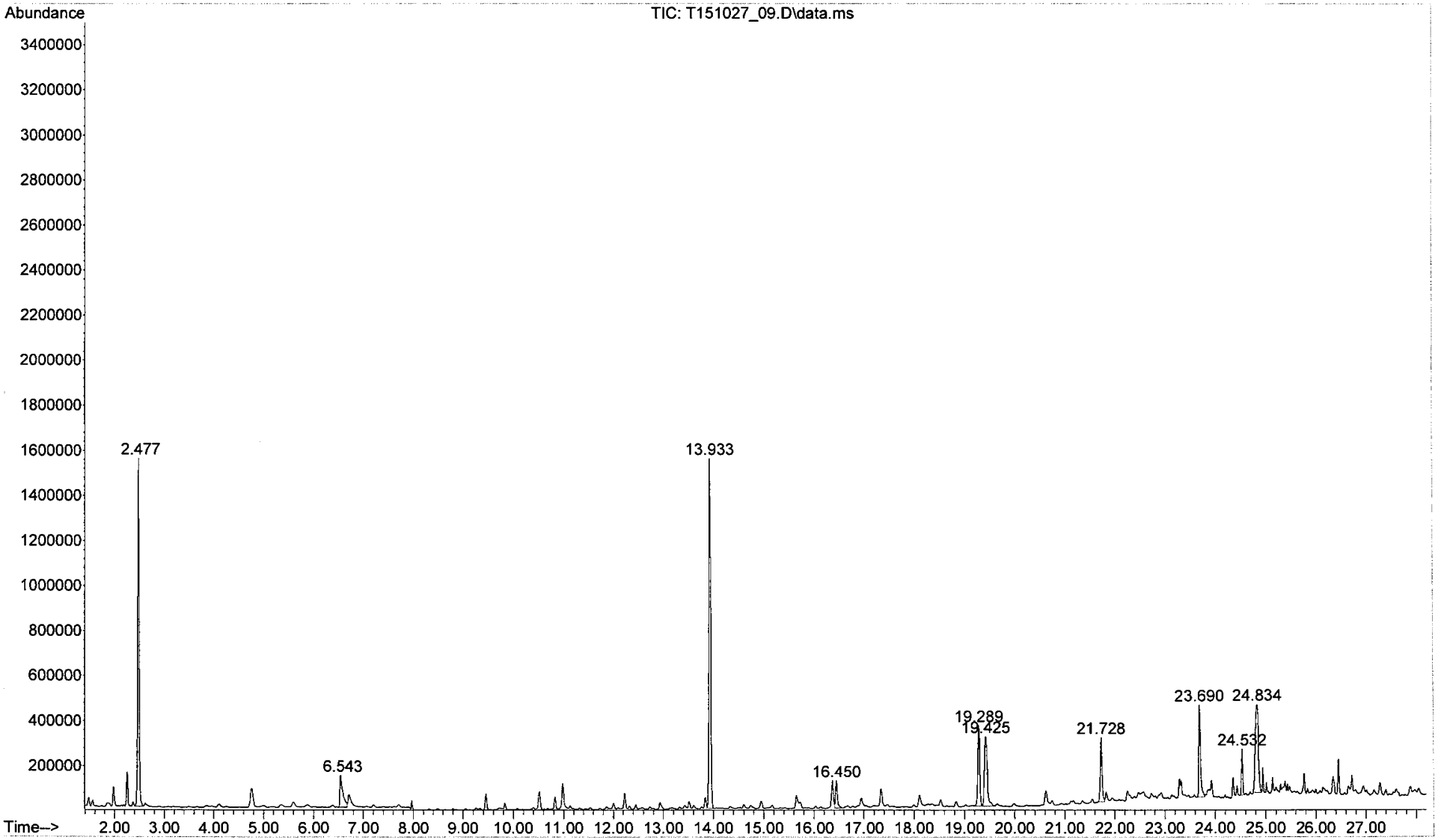
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	13.933	95	807723	107.00 ng	0.00
22) 1-Bromo-4-flourobenzen...	13.933	95	807723	107.00 ng	# 0.00
33) 1-Bromo-4-flourobenzen...	13.933	95	807723	107.00 ng	# 0.00
50) 1-Bromo-4-flourobenzen...	13.933	95	807723	107.00 ng	# 0.00
60) 1-Bromo-4-flourobenzen...	13.933	95	807723	107.00 ng	# 0.00
82) 1-Bromo-4-flourobenzen...	13.933	95	807723	107.00 ng	# 0.00
Target Compounds					Qvalue
2) Trichloroethene;79-01-6	0.000		0	N.D.	
3) Methyl methacrylate; 8...	0.000		0	N.D.	
4) Toluene; 108-88-3	0.000		0	N.D. d	
5) Tetrachloroethene; 127...	0.000		0	N.D.	
6) N,N-Dimethylformamide;...	0.000		0	N.D.	
7) Ethylbenzene; 100-41-4	0.000		0	N.D. d	
8) Xylene {1}; 108-38-3	0.000		0	N.D. d	
9) Xylene {2}; 95-47-6	0.000		0	N.D. d	
10) Xylene - TOTAL; 1330-20-7	0.000		0	N.D.	
11) Styrene; 100-42-5	0.000		0	N.D. d	
12) 1,2,4-Trimethylbenzene...	0.000		0	N.D. d	
13) Octanal; 124-13-0	0.000		0	N.D. d	
14) Phenol; 108-95-2	0.000		0	N.D. d	
15) 1-Phenylethanone; 98-86-2	0.000		0	N.D. d	
16) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
17) Nonanal; 124-19-6	0.000		0	N.D. d	
18) 2-Ethylhexanoic acid; ...	0.000		0	N.D. d	
19) Naphthalene; 91-20-3	0.000		0	N.D.	
20) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
21) Caprolactam; 105-60-2	23.690	113	134672	69.04 ng	91
23) 1-Methoxy-2-propanol; ...	0.000		0	N.D. d	
24) Ethylene glycol; 107-21-1	0.000		0	N.D. d	
25) Butyl acetate; 123-86-4	0.000		0	N.D. d	
26) Propylene glycol; 57-55-6	0.000		0	N.D. d	
27) 2-Butoxyethanol; 111-76-2	0.000		0	N.D. d	
28) Hexanoic acid; 142-62-1	0.000		0	N.D. d	
29) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D. d	
30) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D. d	
31) Dodecanol; 112-53-8	0.000		0	N.D. d	
32) Butylated hydroxytolue...	0.000		0	N.D.	
34) n-Pentane; 109-66-0	0.000		0	N.D. d	
35) Ethanol; 64-17-5	0.000		0	N.D. d	
36) 2-Propanone(acetone); ...	0.000		0	N.D. d	
37) 2-Propanol; 67-63-0	0.000		0	N.D. d	
38) Carbon disulfide; 75-15-0	0.000		0	N.D.	
39) Dichloromethane; 75-09-2	0.000		0	N.D. d	
40) n-Hexane; 110-54-3	0.000		0	N.D. d	
41) Vinyl acetate; 108-05-4	0.000		0	N.D.	
42) 2-Butanone; 78-93-3	0.000		0	N.D. d	
43) Ethyl acetate; 141-78-6	0.000		0	N.D. d	
44) Cyclohexane; 110-82-7	0.000		0	N.D.	

45)	Benzene; 71-43-2	0.000	0	N.D. d
46)	2-Methyl-1-propanol; 7...	0.000	0	N.D. d
47)	1-Butanol; 71-36-3	0.000	0	N.D. d
48)	1,4-Dioxane; 123-91-1	0.000	0	N.D.
49)	Epichlorohydrin; 106-89-8	0.000	0	N.D.
51)	n-Butanal;123-72-8	0.000	0	N.D.
52)	Pentanal; 110-62-3	0.000	0	N.D. d
53)	4-Methyl-2-pentanone; ...	0.000	0	N.D.
54)	Hexanal; 66-25-1	0.000	0	N.D. d
55)	2-Furancarboxaldehyde;...	0.000	0	N.D.
56)	4-Heptanone; 123-19-3	0.000	0	N.D. d
57)	2-Heptanone; 110-43-0	0.000	0	N.D. d
58)	Heptanal; 111-71-7	0.000	0	N.D.
59)	Benzaldehyde; 100-52-7	0.000	0	N.D. d
61)	Octane; 111-65-9	0.000	0	N.D. d
62)	n-Nonane; 111-84-2	0.000	0	N.D. d
63)	alpha-Pinene; 7785-70-8	0.000	0	N.D. d
64)	Cyclohexanone; 108-94-1	0.000	0	N.D.
65)	Camphene; 5794-03-6	0.000	0	N.D. d
66)	beta-Pinene; 19902-08-0	0.000	0	N.D.
67)	n-Decane; 124-18-5	0.000	0	N.D. d
68)	.alpha.-Methylstyrene;...	0.000	0	N.D.
69)	3-Carene; 13466-78-9	0.000	0	N.D.
70)	d-Limonene; 5989-27-5	0.000	0	N.D. d
71)	p-Cymene; 99-87-6	0.000	0	N.D.
72)	1-Undecene; 821-95-4	0.000	0	N.D.
73)	n-Undecane; 1120-21-4	0.000	0	N.D. d
74)	n-Dodecane; 112-40-3	0.000	0	N.D. d
75)	Dodecamethylpentasilox...	0.000	0	N.D.
76)	n-Tridecane; 629-50-5	0.000	0	N.D. d
77)	Benzothiazole; 95-16-9	0.000	0	N.D.
78)	n-Tetradecane; 629-59-4	0.000	0	N.D. d
79)	n-Pentadecane; 629-62-9	0.000	0	N.D. d
80)	n-Hexadecane; 544-76-3	0.000	0	N.D. d
81)	n-Heptadecane; 629-78-7	0.000	0	N.D. d
83)	Propyl acetate; 109-60-4	0.000	0	N.D. d
84)	Isobutyl acetate;110-19-0	0.000	0	N.D. d
85)	PGMEA; 108-65-6	0.000	0	N.D. d
86)	1,3-Dichloro-2-propano...	0.000	0	N.D.
87)	DPGME isomer 1; 34590-...	0.000	0	N.D.
88)	DPGME isomer 2; 34590-...	0.000	0	N.D. d
89)	DPGME isomer 3; 34590-...	0.000	0	N.D. d
90)	1,1'-Oxybis-2-propanol...	0.000	0	N.D.
91)	Benzenemethanol; 100-51-6	0.000	0	N.D.
92)	Propylene carbonate; 1...	0.000	0	N.D.
93)	2,2'-Oxybis(1-propanol...	0.000	0	N.D.
94)	2-(2-Hydroxypropoxy)1-...	0.000	0	N.D.
95)	Octanoic acid; 124-07-2	0.000	0	N.D. d
96)	alpha-Terpineol; 10482...	0.000	0	N.D.
97)	Texanol 1; 25265-77-4-IS1	0.000	0	N.D. d
98)	Texanol 3; 25265-77-4-IS3	0.000	0	N.D. d
99)	1-Dodecanamine, N,N-di...	0.000	0	N.D.
100)	3-Methyl-1,1'-biphenyl...	0.000	0	N.D.
101)	TXIB; 6846-50-0	0.000	0	N.D. d

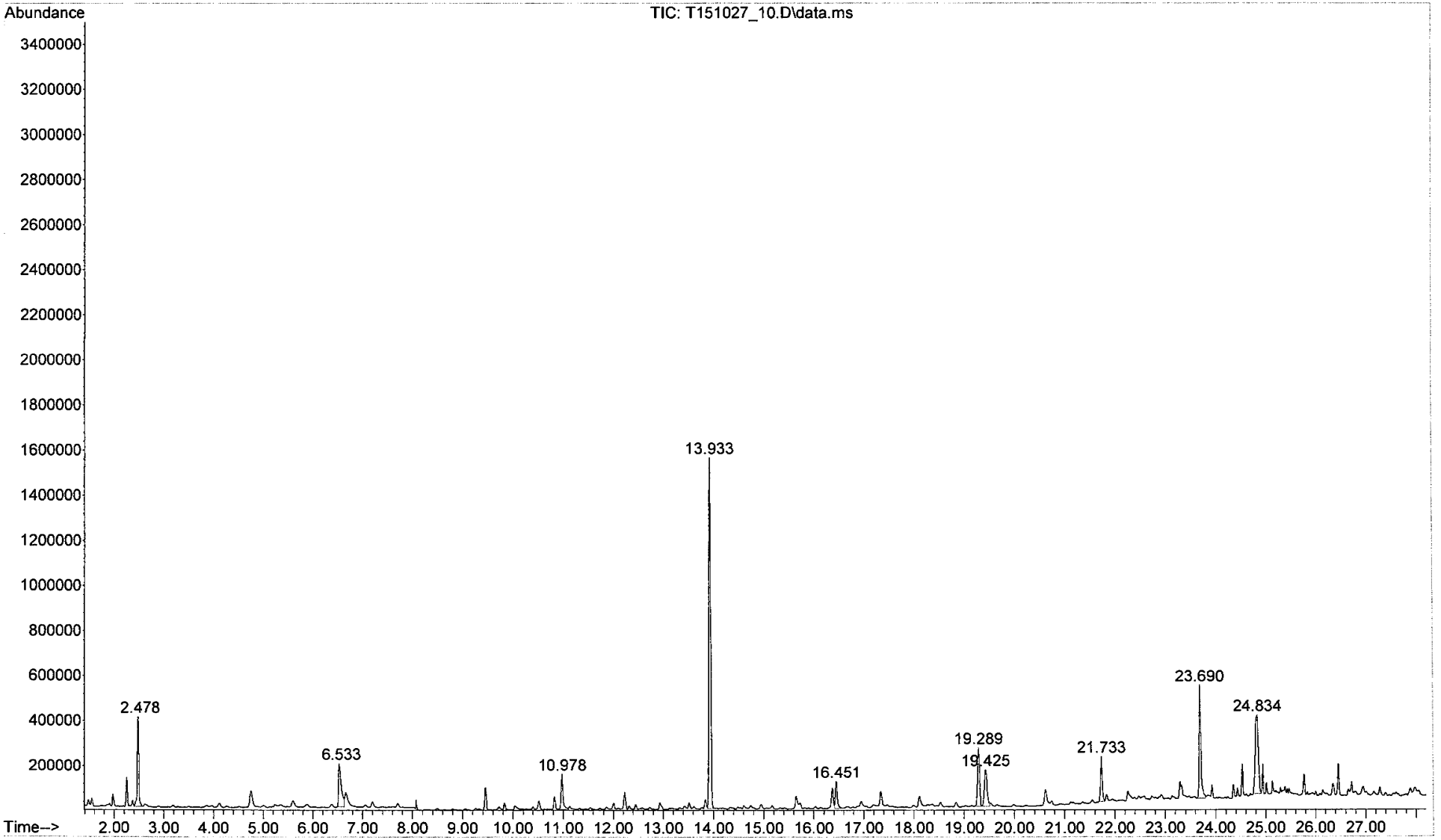
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Desorb_Merged_2015.M Wed Oct 28 12:11:17 2015

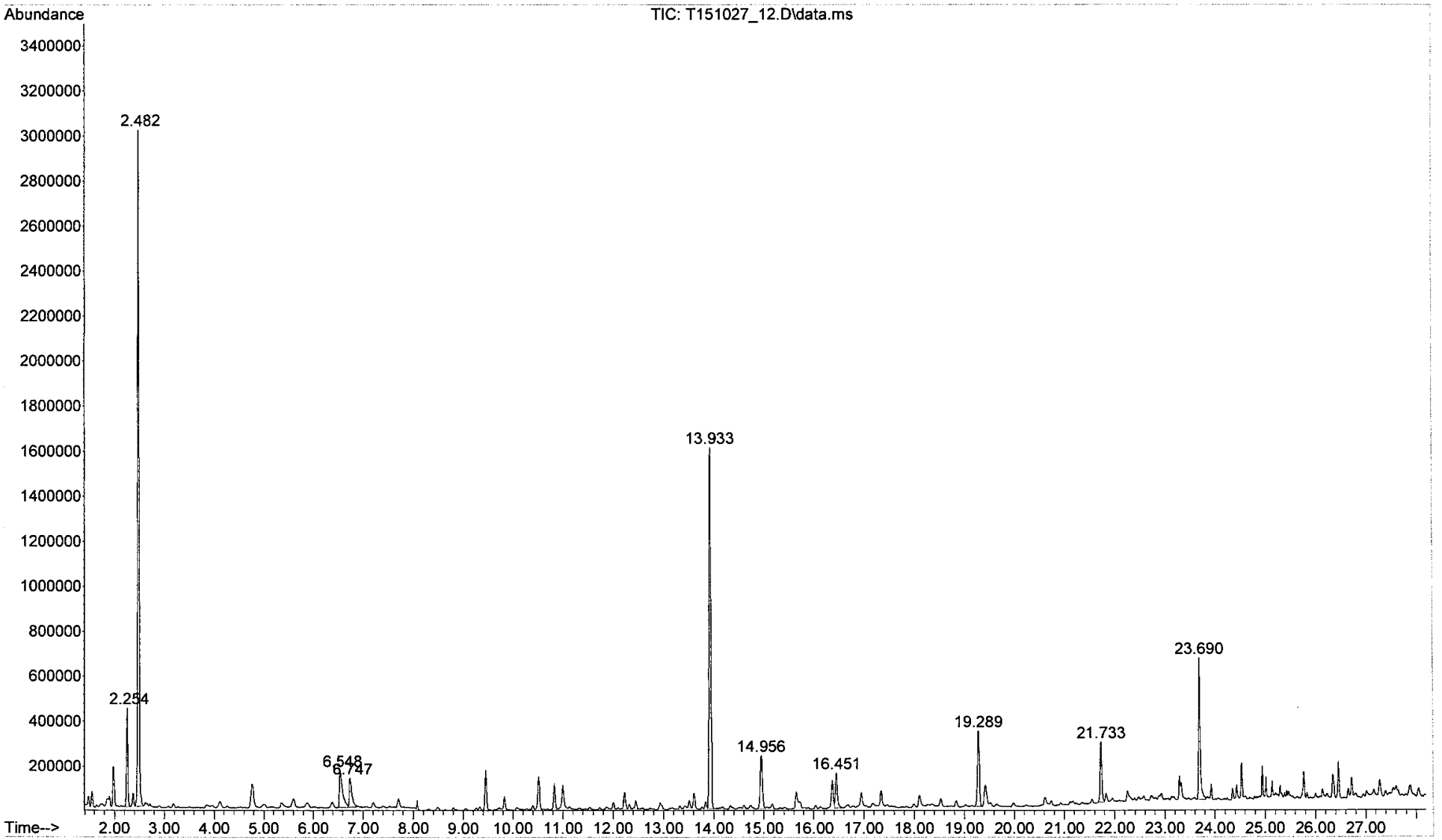
File :C:\msdchem\1\data\2015\Oct\T151027_09.D
Operator : rgill
Acquired : 27 Oct 2015 6:38 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: 061-025-01_US EPA; F081526: 5.7L
Misc Info : C5-01; 10221 Office Cubicle; 107ngBFB;10:1 split
Vial Number: 9



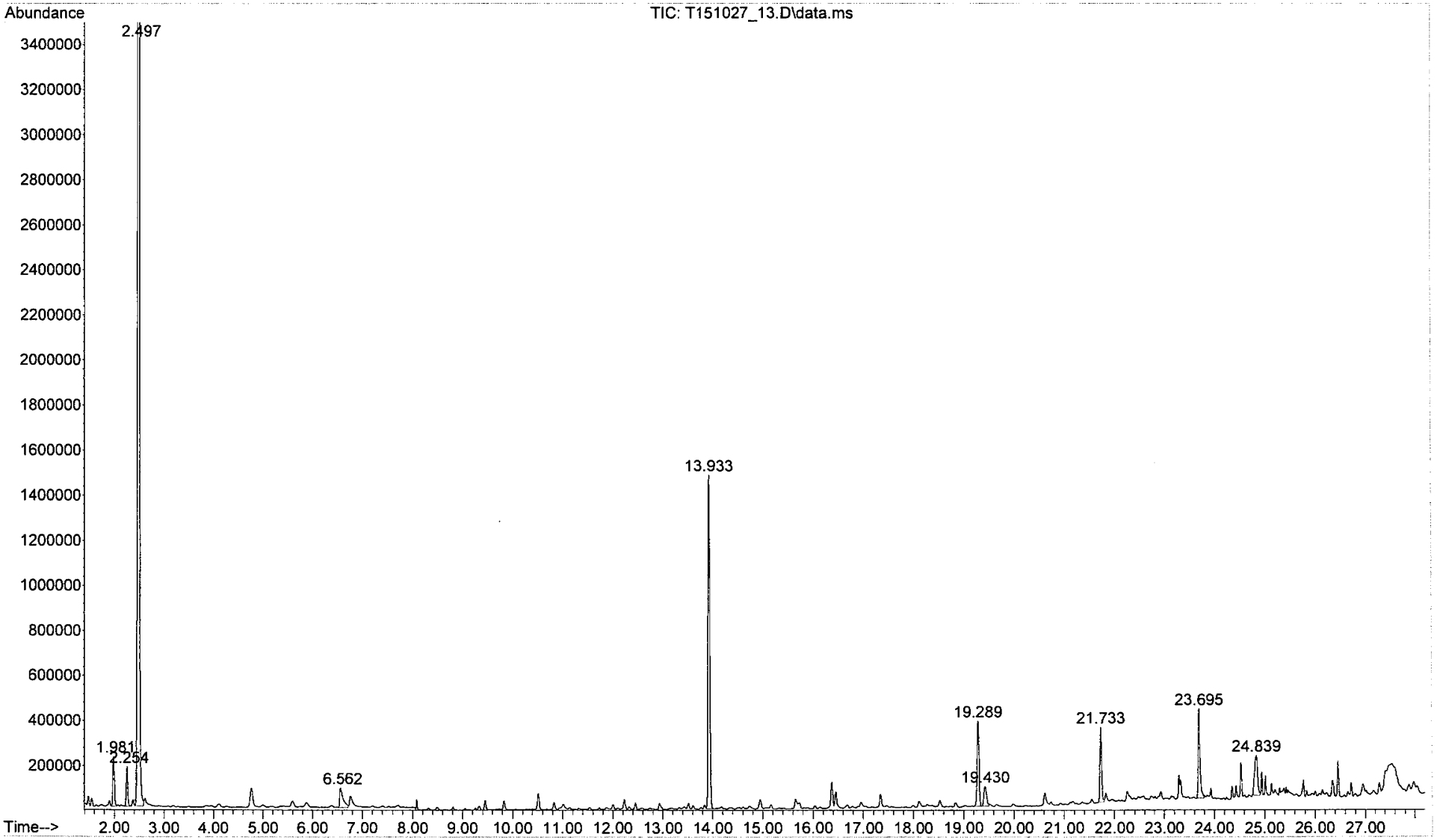
File :C:\msdchem\1\data\2015\Oct\T151027_10.D
Operator : rgill
Acquired : 27 Oct 2015 7:24 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: 061-025-02_US EPA; F090370: 5.47L
Misc Info : C5-02; 10332 Office Cubicle; 107ngBFB;10:1 split
Vial Number: 10



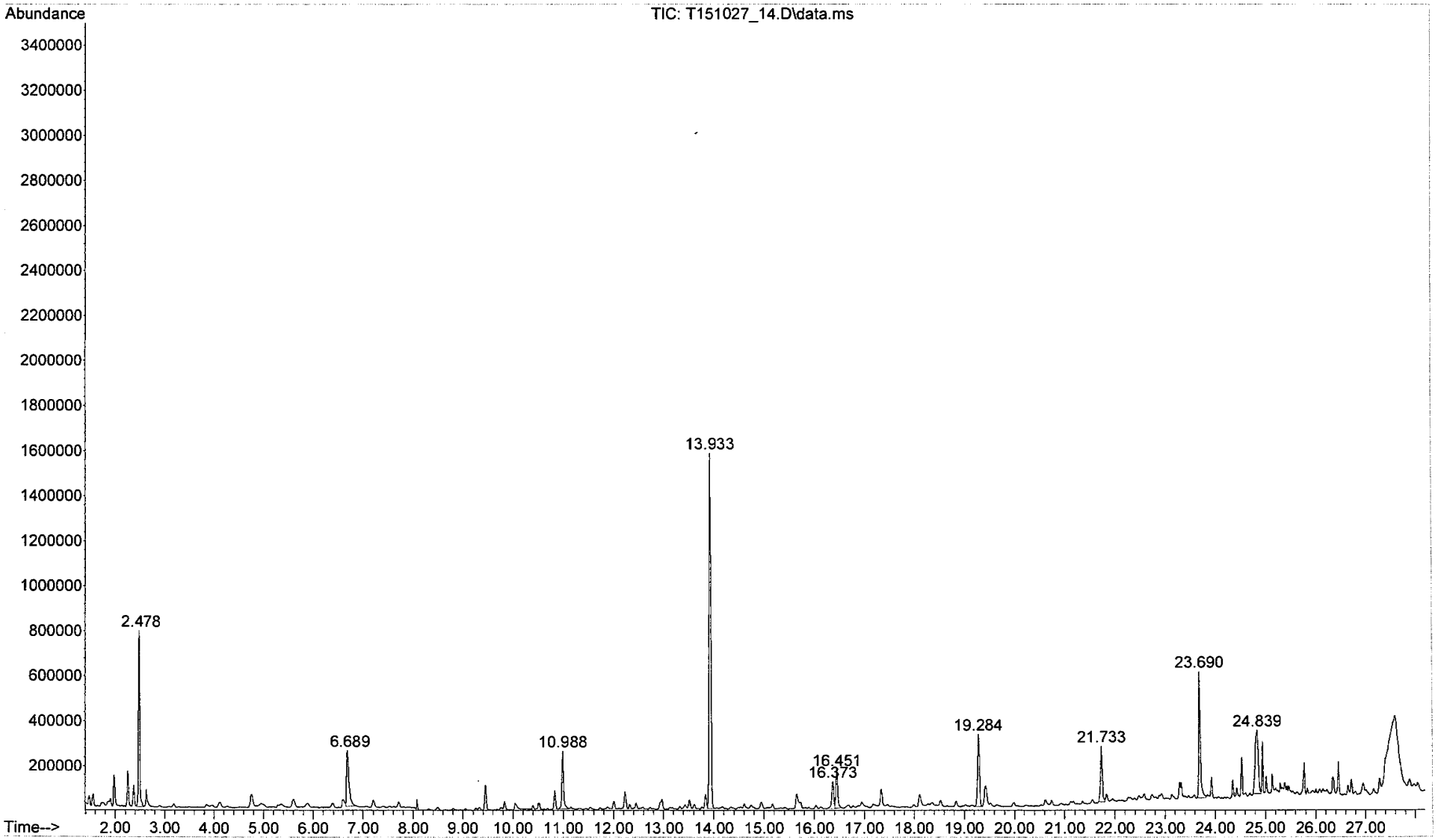
File :C:\msdchem\1\data\2015\Oct\T151027_12.D
Operator : rgill
Acquired : 27 Oct 2015 8:42 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: 061-025-04_US EPA; F079068: 5.89L
Misc Info : C5-04; 10366 Office Cubicle; 107ngBFB;10:1 split
Vial Number: 12



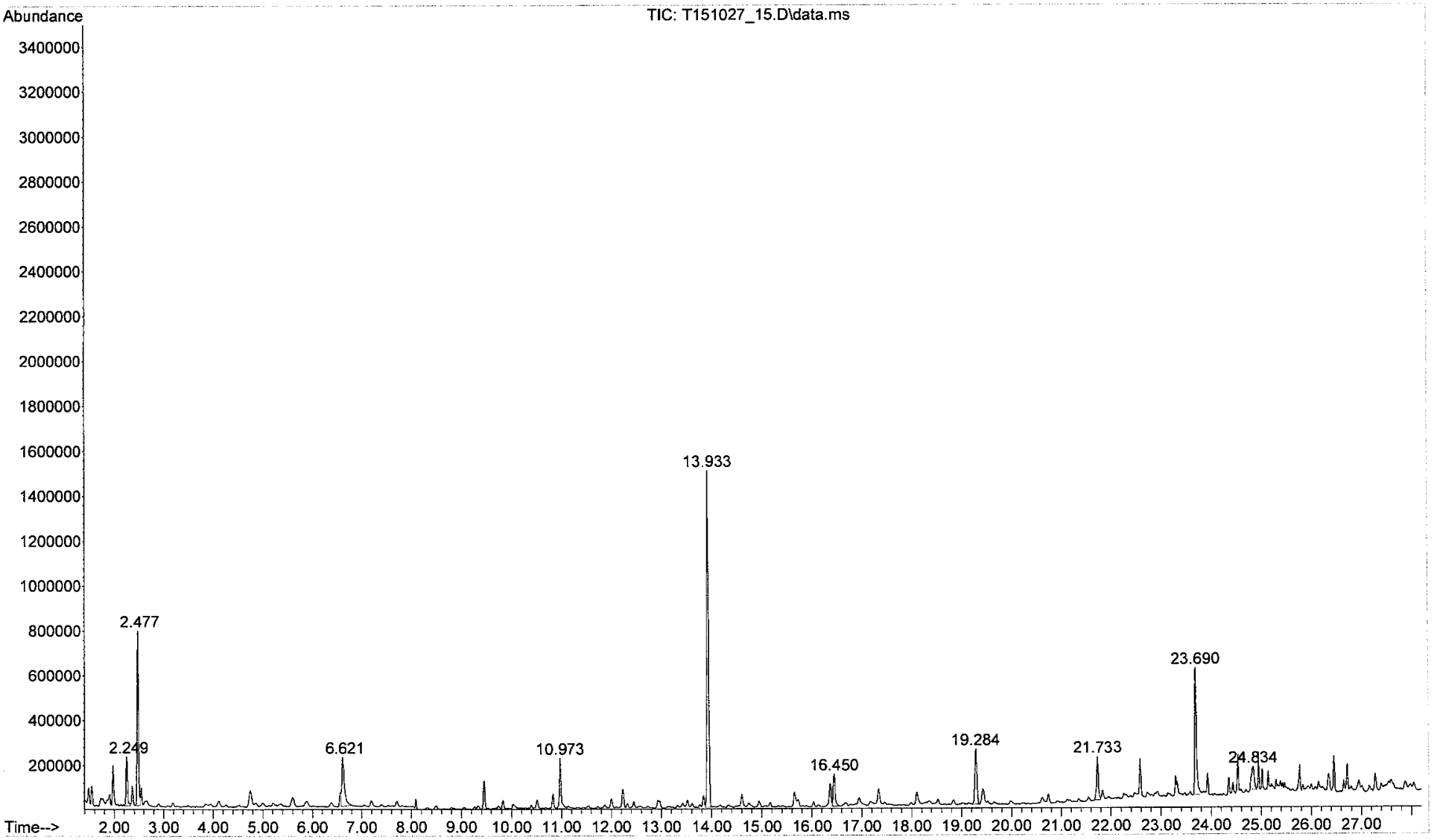
File :C:\msdchem\1\data\2015\Oct\T151027_13.D
Operator : rgill
Acquired : 27 Oct 2015 9:29 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: 061-025-05_US EPA; F077485: 5.67L
Misc Info : C5-05; 10448 Office Cubicle; 107ngBFB;10:1 split
Vial Number: 13



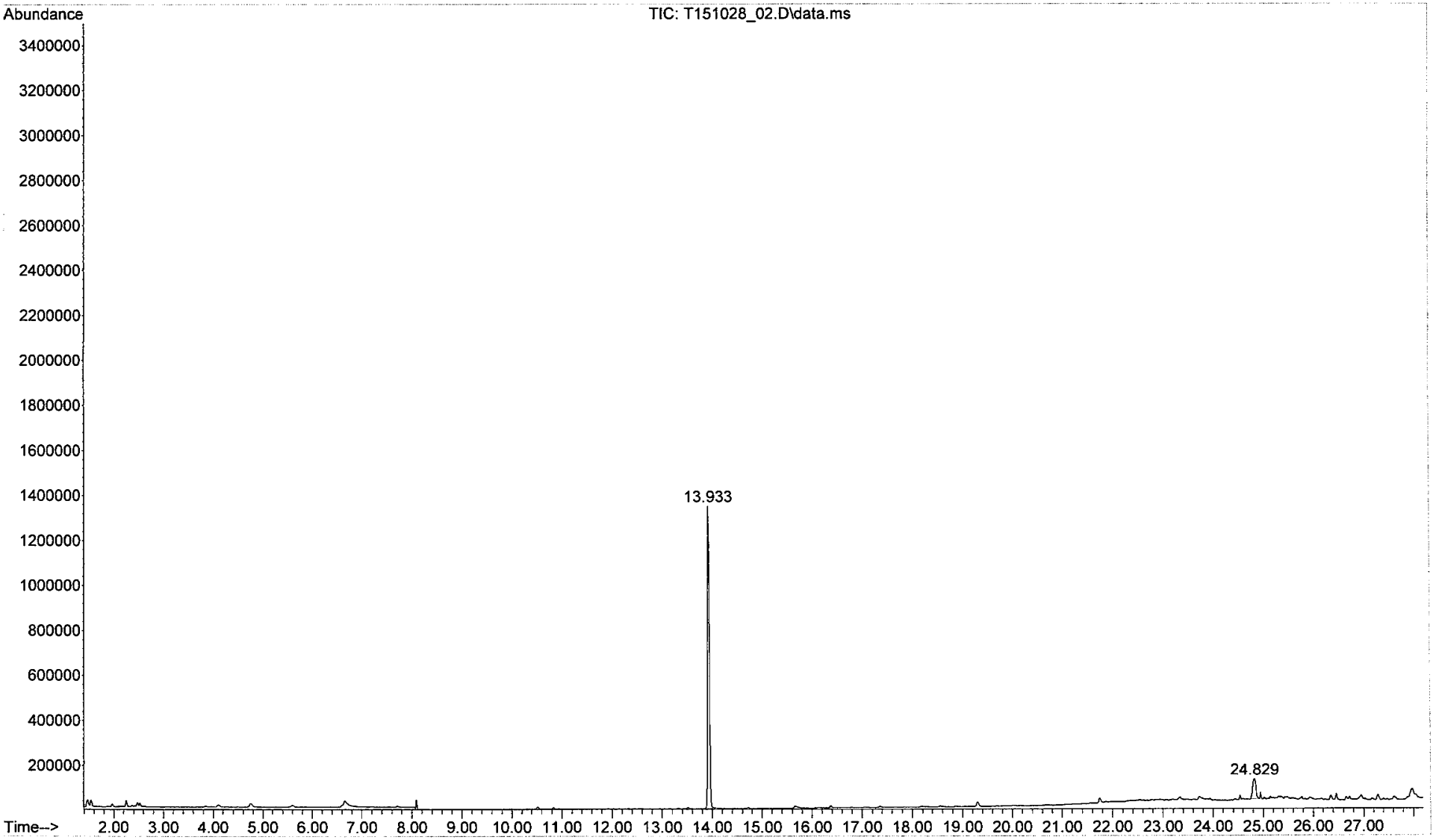
File :C:\msdchem\1\data\2015\Oct\T151027_14.D
Operator : rgill
Acquired : 27 Oct 2015 10:15 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: 061-025-06_US EPA; A10955: 5.52L
Misc Info : C5-06; 10146 Office Cubicle; 107ngBFB;10:1 split
Vial Number: 14



File :C:\msdchem\1\data\2015\Oct\T151027_15.D
Operator : rgill
Acquired : 27 Oct 2015 11:01 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: 061-025-07_US EPA; A10975: 6.06L
Misc Info : C5-07; 10411 Office Cubicle; 107ngBFB;10:1 split
Vial Number: 15



File :C:\msdchem\1\data\2015\Oct\T151028_02.D
Operator : rgill
Acquired : 28 Oct 2015 12:44 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: 061-025-08_US EPA; A10986: 5.83L
Misc Info : C5-08; 10151 Office Cubicle; 107ngBFB;10:1 split
Vial Number: 2



The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-025-01_US EPA; F081526: 5.7L

10/27/2015, Rgill

	BFB(ng)	RF			
TIC: T151027_09.D\data.ms	107		0.97	5.7	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	CAS#	Compound
13.9	3613236.0	1.000	110.3	19.4		bfb-Istd
23.695	945194.0	0.262	49.0	8.6		Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-025-02_US EPA; F090370: 5.47L

10/27/2015, Rgill

	BFB(ng)	RF			
TIC: T151027_10.D\data.ms	107		0.97	5.5	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	CAS#	Compound
13.9	3633001.0	1.000	110.3	20.2		bfb-Istd
23.695	1219789.0	0.336	59.7	10.9		Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-025-03_US EPA; F089741: 5.05L

10/27/2015, Rgill

	BFB(ng)	RF		
TIC: T151028_01.D\data.ms	107	0.97	5.1	

RT	Area	RelResp	Mass ng	Conc. ug/m3	CAS#	Compound
13.9	3939713.0	1.000	110.3	21.8		bfb-Istd
23.695	855886.0	0.217	39.7	7.9		Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-025-04_US EPA; F079068: 5.89L

10/27/2015, Rgill

	BFB(ng)	RF			
TIC: T151027_12.D\data.ms	107		0.97	5.9	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	CAS#	Compound
13.9	3766656.0	1.000	110.3	18.7		bfb-Istd
23.695	1391157.0	0.369	65.4	11.1		Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-025-05_US EPA; F077485: 5.67L

10/27/2015, Rgill

	BFB(ng)	RF		
TIC: T151027_13.D\data.ms	107	0.97	5.7	

RT	Area	RelResp	Mass ng	Conc. ug/m3	CAS#	Compound
13.9	3431574.0	1.000	110.3	19.5		bfb-Istd
23.695	961634.0	0.280	51.3	9.0		Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-025-06_US EPA; A10955: 5.52L

10/27/2015, Rgill

	BFB(ng)	RF			
TIC: T151027_14.D\data.ms	107		0.97	5.5	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	CAS#	Compound
13.9	3636830.0	1.000	110.3	20.0		bfb-Istd
23.695	1300743.0	0.358	63.8	11.6		Caprolactam

The mass for the UC compounds are calculated based on TIC using Toluene response factor.
TIC Unconfirmed
061-025-07_US EPA; A10975: 6.06L

10/27/2015, Rgill

	BFB(ng)	RF			
TIC: T151027_15.D\data.ms	107		0.97	6.1	
			Mass	**Conc.**	
RT	Area	RelResp	ng	ug/m3	CAS#	Compound
13.9	3472934.0	1.000	110.3	18.2		bfb-Istd
23.695	1316901.0	0.379	69.0	11.4		Caprolactam

HCHO\JC061-025_EPA.XLS
Created 10/26/15, rgill

US EPA
Formaldehyde Analysis
Sequence 151026
Method FORMALDEHYDE.M

File	Sample ID	Rt min	Meas Conc ng/ul	Meas Mass ng	Volume L	Conc ng/L	Conc ppbv
151026\151026010.D	F5-01	5.239		682	54.10	12.6	10.3
151026\151026011.D	F5-02	5.239		626	52.36	12.0	9.7
151026\151026013.D	F5-03	5.240		490	49.13	10.0	8.1
151026\151026014.D	F5-04	5.241		741	55.60	13.3	10.9
151026\151026015.D	F5-05	5.242		577	53.72	10.7	8.8
151026\151026016.D	F5-06	5.257		708	53.67	13.2	10.8
151026\151026017.D	F5-07	5.243		666	57.6	11.6	9.4
151026\151026018.D	F5-08	5.242		763	55.91	13.6	11.1
151026\151026019.D	F5-09	5.240		661	56.56	11.7	9.5

061-025-01 5.7 litres
US EPA
F081526 collected: 10/26/2015
1; 10221 Office cubicle

061-025-02 5.47 litres
US EPA
F090370 collected: 10/26/2015
C5-02; 10332 Office cubicle

061-025-03 5.05 litres
US EPA
F089741 collected: 10/26/2015
C5-03; 10344 Office cubicle

061-025-04 5.89 litres
US EPA
F079068 collected: 10/26/2015
C5-04; 10366 Office cubicle

061-025-05 5.67 litres
US EPA
F077485 collected: 10/26/2015
C5-05; 10448 Office cubicle

061-025-06 5.52 litres
US EPA
A10955 collected: 10/26/2015
C5-06; 10146 Office cubicle

061-025-07 6.06 litres
US EPA
A10975 collected: 10/26/2015
C5-07; 10411 Office cubicle

061-025-08 5.83 litres
US EPA
A10986 collected: 10/26/2015
C5-08; 10151 Office cubicle

061-025-09 54.1 litres
US EPA
F5-01 collected: 10/26/2015
10221 Office Cubicle

061-025-10 52.36 litres
US EPA
F5-02 collected: 10/26/2015
10332 Office Cubicle

061-025-11 49.13 litres
US EPA
F5-03 collected: 10/26/2015
10344 Office Cubicle

061-025-12 55.6 litres
US EPA
F5-04 collected: 10/26/2015
10366 Office Cubicle

061-025-13 53.72 litres
US EPA
F5-05 collected: 10/26/2015
10448 Office Cubicle

061-025-14 53.67 litres
US EPA
F5-06 collected: 10/26/2015
10146 Office Cubicle

061-025-15 57.6 litres
US EPA
F5-07 collected: 10/26/2015
10411 Office Cubicle

061-025-16 55.91 litres
US EPA
F5-08 collected: 10/26/2015
10151 Office Cubicle

061-025-17 56.56 litres
US EPA
F5-09 collected: 10/26/2015
10216 Office Cubicle

Lois Switzer

From: Raja Tannous <rtannous@berkeleyanalytical.com>
Sent: Tuesday, October 20, 2015 12:52 PM
To: 'Lois Switzer'
Cc: 'Na Li'; 'Rupinder'
Subject: EPA - Samplers

Jeff Woodlee of EPA will pick up 9 MS tubes and 9 DNPH on Friday 10/23. He also needs a used calibration tube/cartridge for his pumps.

Lois: Please charge him for
9 x $75 = $675 formaldehyde
9x $15 = $135 DNPH cartridges
9x$200 = $1800 Caprolactam only analysis ~~includes MS~~ tubes (TO-17 single compound)
Visa 2.5% charges $65.25
+ 15 Tubes

Total should be $2,675.25

Raja S. Tannous
Co-Founder & Laboratory Director
rtannous@berkeleyanalytical.com

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Fax: 510-236-2335
www.berkeleyanalytical.com

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