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BERKELEY ANALYTICAL
815 Harbour Way South, Suite 6
Richmond, CA 94804
Ph. 510-236-2325; Fax 510-236-2335
E-mail info@berkeleyanalytical.com

Analysis of Field-Collected Air Samples

Customer and Project Information

Report Certification	
Report number	061-036-IH-Sept616
Report date	September 6, 2016
Certified by (Name/Title)	Raja Tannous, Laboratory Director
Signature	
Date	*September 6, 2016*

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	Not given
Project location	Not given
Project date	August 24, 2016

Laboratory Receiving Information	
Date samples received by lab	August 25, 2016
Condition of samples	No observed problems
Lab tracking numbers	061-036-01 to 061-036-40

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Sample Information, Caprolactam

Sample No.	Sample Description	Sampler No.	Date Collected	Volume* (L)	Analysis Type	Specified Method
C14-01	11350	242484	August 24, 2016	5.69	Caprolactam	TO-17
C14-02	11420	Mi51173	August 24, 2016	5.58	Caprolactam	TO-17
C14-03	11130	203157	August 24, 2016	5.98	Caprolactam	TO-17
C14-04	11310	242486	August 24, 2016	6.36	Caprolactam	TO-17
C14-05	3320	Mi51139	August 24, 2016	6.16	Caprolactam	TO-17
C14-06	3363	242448	August 24, 2016	6.29	Caprolactam	TO-17
C14-07	3314	242412	August 24, 2016	6.14	Caprolactam	TO-17
C14-08	3410	203173	August 24, 2016	5.96	Caprolactam	TO-17
C14-09	8146	Mi51180	August 24, 2016	6.39	Caprolactam	TO-17
C14-10	8424	Mi51154	August 24, 2016	7.49	Caprolactam	TO-17
C14-11	8312	242405	August 24, 2016	6.96	Caprolactam	TO-17
C14-12	8356	Mi51160	August 24, 2016	5.25	Caprolactam	TO-17
C14-13	9163	203175	August 24, 2016	5.57	Caprolactam	TO-17
C14-14	9246	Mi51151	August 24, 2016	5.94	Caprolactam	TO-17
C14-15	9365	203165	August 24, 2016	7.19	Caprolactam	TO-17
C14-16	9419	203151	August 24, 2016	6.92	Caprolactam	TO-17
C14-17	12441	203139	August 24, 2016	5.22	Caprolactam	TO-17
C14-18	12414	242469	August 24, 2016	5.43	Caprolactam	TO-17
C14-19	12142	Mi58838	August 24, 2016	6.08	Caprolactam	TO-17
C14-20	12351	242413	August 24, 2016	5.91	Caprolactam	TO-17

*Volume in liters reported by customer

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Sample Information, Formaldehyde

Sample No.	Sample Description	Sampler No.	Date Collected	Volume* (L)	Analysis Type	Specified Method
F14-01	11350	Supelco Cart	August 24, 2016	53.83	Formaldehyde	D 5197
F14-02	11420	Supelco Cart	August 24, 2016	54.38	Formaldehyde	D 5197
F14-03	11130	Supelco Cart	August 24, 2016	54.67	Formaldehyde	D 5197
F14-04	11310	Supelco Cart	August 24, 2016	60.32	Formaldehyde	D 5197
F14-05	3320	Supelco Cart	August 24, 2016	61.08	Formaldehyde	D 5197
F14-06	3363	Supelco Cart	August 24, 2016	58.71	Formaldehyde	D 5197
F14-07	3314	Supelco Cart	August 24, 2016	58.98	Formaldehyde	D 5197
F14-08	3410	Supelco Cart	August 24, 2016	59.51	Formaldehyde	D 5197
F14-09	8146	Supelco Cart	August 24, 2016	60.89	Formaldehyde	D 5197
F14-10	8424	Supelco Cart	August 24, 2016	70.15	Formaldehyde	D 5197
F14-11	8312	Supelco Cart	August 24, 2016	68.40	Formaldehyde	D 5197
F14-12	8356	Supelco Cart	August 24, 2016	49.86	Formaldehyde	D 5197
F14-13	9163	Supelco Cart	August 24, 2016	52.22	Formaldehyde	D 5197
F14-14	9246	Supelco Cart	August 24, 2016	58.85	Formaldehyde	D 5197
F14-15	9365	Supelco Cart	August 24, 2016	68.17	Formaldehyde	D 5197
F14-16	9419	Supelco Cart	August 24, 2016	65.75	Formaldehyde	D 5197
F14-17	12441	Supelco Cart	August 24, 2016	51.69	Formaldehyde	D 5197
F14-18	12414	Supelco Cart	August 24, 2016	51.77	Formaldehyde	D 5197
F14-19	12142	Supelco Cart	August 24, 2016	57.56	Formaldehyde	D 5197
F14-20	12351	Supelco Cart	August 24, 2016	58.14	Formaldehyde	D 5197

*Volume in liters reported by customer

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Analytical Information, Caprolactam

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
C14-01	061-036-01	TO-17	September 1, 2016	R. Gill	T160901_09
C14-02	061-036-02	TO-17	September 1, 2016	R. Gill	T160901_10
C14-03	061-036-03	TO-17	September 1, 2016	R. Gill	T160901_11
C14-04	061-036-04	TO-17	September 1, 2016	R. Gill	T160901_12
C14-05	061-036-05	TO-17	September 1, 2016	R. Gill	T160901_13
C14-06	061-036-06	TO-17	September 1, 2016	R. Gill	T160901_14
C14-07	061-036-07	TO-17	September 1, 2016	R. Gill	T160901_15
C14-08	061-036-08	TO-17	September 1, 2016	R. Gill	T160901_16
C14-09	061-036-09	TO-17	September 1, 2016	R. Gill	T160901_17
C14-10	061-036-10	TO-17	September 1, 2016	R. Gill	T160901_18
C14-11	061-036-11	TO-17	September 1, 2016	R. Gill	T160901_19
C14-12	061-036-12	TO-17	September 1, 2016	R. Gill	T160901_20
C14-13	061-036-13	TO-17	September 1, 2016	R. Gill	T160901_21
C14-14	061-036-14	TO-17	September 1, 2016	R. Gill	T160901_22
C14-15	061-036-15	TO-17	September 1, 2016	R. Gill	T160901_23
C14-16	061-036-16	TO-17	September 1, 2016	R. Gill	T160901_24
C14-17	061-036-17	TO-17	September 1, 2016	R. Gill	T160901_25
C14-18	061-036-18	TO-17	September 1, 2016	R. Gill	T160901_26
C14-19	061-036-19	TO-17	September 1, 2016	R. Gill	T160901_27
C14-20	061-036-20	TO-17	September 1, 2016	R. Gill	T160901_28

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Analytical Information, Formaldehyde

Sample No.	Lab Track. No.	Method	Date Analyzed	Analyst	Data File
F14-01	061-036-21	D 5197	August 25, 2016	T.Cheng	160825\160825005.D
F14-02	061-036-22	D 5197	August 25, 2016	T.Cheng	160825\160825006.D
F14-03	061-036-23	D 5197	August 25, 2016	T.Cheng	160825\160825007.D
F14-04	061-036-24	D 5197	August 25, 2016	T.Cheng	160825\160825008.D
F14-05	061-036-25	D 5197	August 25, 2016	T.Cheng	160825\160825009.D
F14-06	061-036-26	D 5197	August 25, 2016	T.Cheng	160825\160825010.D
F14-07	061-036-27	D 5197	August 25, 2016	T.Cheng	160825\160825011.D
F14-08	061-036-28	D 5197	August 25, 2016	T.Cheng	160825\160825012.D
F14-09	061-036-29	D 5197	August 25, 2016	T.Cheng	160825\160825013.D
F14-10	061-036-30	D 5197	August 25, 2016	T.Cheng	160825\160825014.D
F14-11	061-036-31	D 5197	August 25, 2016	T.Cheng	160825\160825015.D
F14-12	061-036-32	D 5197	August 25, 2016	T.Cheng	160825\160825016.D
F14-13	061-036-33	D 5197	August 25, 2016	T.Cheng	160825\160825017.D
F14-14	061-036-34	D 5197	August 25, 2016	T.Cheng	160825\160825018.D
F14-15	061-036-35	D 5197	August 30, 2016	T.Cheng	160830\160830025.D
F14-16	061-036-36	D 5197	August 30, 2016	T.Cheng	160830\160830026.D
F14-17	061-036-37	D 5197	August 30, 2016	T.Cheng	160830\160830027.D
F14-18	061-036-38	D 5197	August 30, 2016	T.Cheng	160830\160830028.D
F14-19	061-036-39	D 5197	August 30, 2016	T.Cheng	160830\160830029.D
F14-20	061-036-40	D 5197	August 30, 2016	T.Cheng	160830\160830030.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 August 25, 2016. There were twenty Supelco DNPH cartridges for the analysis of formaldehyde and there were twenty multi-sorbent tubes for caprolactam analysis. The analytical results for caprolactam are presented in Table 1. The analytical results for formaldehyde are presented in Table 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 following ASTM Standard Method D5197. Formaldehyde was quantified using a multi-point (4 or more points) calibration curve.

Cartridge Blank – The average Waters DNPH cartridge blank for formaldehyde is 40 ng. The average cartridge blank was subtracted from a measured mass to determine a blank subtracted sample mass.

MDL and LOQ – A Method Detection Limit (MDL) for formaldehyde of 15 ng was determined from the analysis of ten replicates of a low level standard spiked onto DNPH cartridges. 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%.

Caprolactam was analyzed by thermal desorption GC/MS following U.S. EPA Compendium Method TO-17. Caprolactam was quantified using a multi-point (4 or more points) calibration cure prepared with a pure standard.

MDL and LOQ – A Method Detection Limit (MDL) for caprolactam of 2.3 ng was determined from the analysis of three replicates of a low level standard spiked onto multi-sorbent 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.).

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Results, Caprolactam

Table 1. Quantitative analysis of Caprolactam (CAS # 105-60-2).

Sample No.	Sample Name	Volume (L)	Mass (ng)	Conc ($\mu g/m^3$)	Conc* (ppb)
C14-01	11350	5.69	21.6	3.8	0.8
C14-02	11420	5.58	15.7	2.8	0.6
C14-03	11130	5.98	42.3	7.1	1.5
C14-04	11310	6.36	46.6	7.3	1.6
C14-05	3320	6.16	50.4	8.2	1.8
C14-06	3363	6.29	33.0	5.3	1.1
C14-07	3314	6.14	LOQ	LOQ	LOQ
C14-08	3410	5.96	19.0	3.2	0.7
C14-09	8146	6.39	63.6	10.0	2.2
C14-10	8424	7.49	48.4	6.5	1.4
C14-11	8312	6.96	56.3	8.1	1.7
C14-12	8356	5.25	48.5	9.2	2.0
C14-13	9163	5.57	56.2	10.1	2.2
C14-14	9246	5.94	53.2	9.0	1.9
C14-15	9365	7.19	94.2	13.1	2.8
C14-16	9419	6.92	50.3	7.3	1.6
C14-17	12441	5.22	25.3	4.8	1.0
C14-18	12414	5.43	22.7	4.2	0.9
C14-19	12142	6.08	29.4	4.8	1.0
C14-20	12351	5.91	23.7	4.0	0.9

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

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Results, Formaldehyde

Table 2. Quantitative analysis of formaldehyde (CAS #50-00-0)

Sample No.	Sample Name	Volume (L)	Measured Mass (ng)	Mass – Blank* (ng)	Conc (µg/m³)	Conc** (ppb)
F14-01	11350	53.83	386	346	6.4	5.2
F14-02	11420	54.38	469	429	7.9	6.4
F14-03	11130	54.67	408	368	6.7	5.5
F14-04	11310	60.32	396	356	5.9	4.8
F14-05	3320	61.08	503	463	7.6	6.2
F14-06	3363	58.71	767	727	12.6	10.3
F14-07	3314	58.98	405	365	6.2	5.0
F14-08	3410	59.51	610	570	9.6	7.8
F14-09	8146	60.89	760	362	5.9	4.8
F14-10	8424	70.15	761	721	10.3	8.4
F14-11	8312	68.40	781	741	10.8	8.8
F14-12	8356	49.86	486	446	8.9	7.3
F14-13	9163	52.22	449	409	7.8	6.4
F14-14	9246	58.85	399	359	6.1	5.0
F14-15	9365	68.17	344	304	4.5	3.6
F14-16	9419	65.75	346	306	4.7	3.8
F14-17	12441	51.69	334	294	5.7	4.6
F14-18	12414	51.77	370	330	6.4	5.2
F14-19	12142	57.56	399	359	6.2	5.1
F14-20	12351	58.14	301	261	4.5	3.7

*Measured mass corrected for typical 40 ng formaldehyde cartridge blank.

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

END OF REPORT

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Berkeley Analytical Associates, LLC
815 Harbour Way South, Suite 6
Richmond, CA 94804-3612
Phone: 510-236-2325 Fax: 510-236-2335
e-mail: baalab@berkeleyanalytical.com

CHAIN-OF-CUSTODY RECORD
for ANALYTICAL SERVICES
2009 Update

Client Information*			
Company:	US EPA		
Street Address:			
City/State/Zip Code:			
Country:	Contact (for reporting):	WOODLEE	
Project/Job Name:			
Project/Job #:		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
Cr 242484	C14-01	8/24/14	59	5.69	11350	b - Carbonyls	
Mi 51173	C14-02	↓	59	5.58	11420	↓	
203157	C14-03		61	5.98	11130		
242486	C14-04		66	6.36	11310		
Mi 51139	C14-05		65	6.16	3320		
242448	C14-06		64	6.29	3363		
242412	C14-07		64	6.14	3314		
203173	C14-08		63	5.96	3410		
Mi 51180	C14-09		65	6.39	8146		
Mi 51154	C14-10	↓	78	7.49	8424	↓	

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
J. Woodlee			8/25/14	USEPA
	Na Li		8/25/14	BAA

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815 Harbour Way South, Suite 6
Richmond, CA 94804-3612
Phone: 510-236-2325 Fax: 510-236-2335
e-mail: baalab@berkeleyanalytical.com

CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*		
Company:	US EPA	
Street Address:		
City/State/Zip Code:		
Country:	Contact (for reporting):	Woodlee
Project/Job Name:		
Project/Job #:	P.O. #:	
Phone:	Fax:	
E-mail address:		

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
242405.	C14- 11	8/24/16	74	6.96	8312	b-caprolactam	
Mi51160.	C14- 12		54	5.25	8356		
203175.	C14- 13		58	5.57	9163		
Mi51151.	C14- 14		63	5.94	9246		
203165.	C14- 15		73	7.19	9365		
203151.	C14- 16		72	6.92	9419		
203139	C14- 17		55	5.22	12441		
242469.	C14- 18		55	5.43	12414		
Mi58838.	C14- 19		63	6.08	12142		
242413.	C14- 20		62	5.91	12351		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
J-Woodlee			8/25/16	USEPA
	Na Li		8/25/16	BAA

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CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*		
Company:	US EPA	
Street Address:		
City/State/Zip Code:		
Country:	Contact (for reporting): Woodlee	
Project/Job Name:		
Project/Job #:		P.O. #:
Phone:		Fax:
E-mail address:		

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
	F14-01	8/24/16	59	53.83	11350	f	
	F14-02		59	54.38	11420		
	F14-03		61	54.67	11130		
	F14-04		66	60.32	11310		
	F14-05		65	61.08	3320		
	F14-06		64	58.71	3363		
	F14-07		64	58.98	3314		
	F14-08		63	59.51	3410		
	F14-09		65	60.89	8146		
	F14-10		78	70.15	8424		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
J Woodlee			8/25/16	US EPA
	Na Li	Lina	8/25/16	BKA

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815 Harbour Way South, Suite 6
Richmond, CA 94804-3612
Phone: 510-236-2325 Fax: 510-236-2335
e-mail: baalab@berkeleyanalytical.com

CHAIN-OF-CUSTODY RECORD for ANALYTICAL SERVICES

2009 Update

Client Information*	
Company:	US EPA
Street Address:	
City/State/Zip Code:	
Country:	Contact (for reporting): WOODLEE
Project/Job Name:	
Project/Job #:	P.O. #:
Phone:	Fax:
E-mail address:	

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
	F14-11	8/24/16	74	68.40	8312	f	
	F14-12		54	49.86	8356		
	F14-13		58	52.22	9163		
	F14-14		63	58.82	9246		
	F14-15		73	68.17	9365		
	F14-16		72	65.75	9419		
	F14-17		55	51.69	12441		
	F14-18		55	51.77	12414		
	F14-19		63	57.56	12142		
	F14-20		62	58.14	12351		

Sample(s) Handling

Relinquished By	Received By	Signature	Date	Company
J Woodlee			8/25/16	US EPA
	Na Li	Li	8/25/16	BAA

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IH Testing, Invoicing and Report Checklist

Date: 9/5/16

Company: US EPA

Contact Name: Jeff Woodlee

Contact Phone: 415-972-3740

Contact Email: Woodlee.jeff@epa.gov

Initiator:

Notes & Deviations:

Report ID & Billing Ref:

Test Methd/ Description: (highlite all applicable) TO-17; ASTM D5197

Program LEED V4

Quote #: Date:

PO #: EP-16-9-000030

Sample IDs:

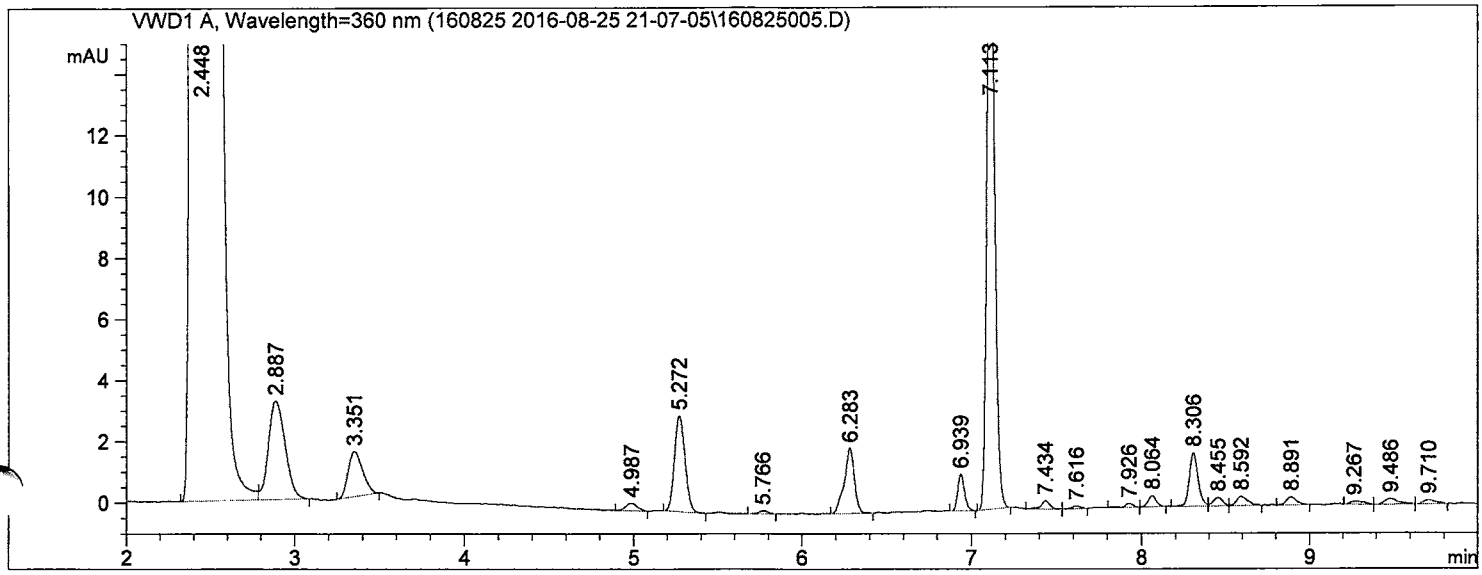
Item to Check	Initials	Notes
COC		
Is it clear what test to be performed[1]?		YES / NO :
Log in samples and check the Turnaround of the report		YES / NO :
Scan (to PDF) a copy of the COC form		YES / NO :
Check and confirm that the samples match the COC		YES / NO :
Chemical Analysis		
Analyze sampels by TO-17		YES / NO :
Analyze samples by ASTM D5197		YES / NO :
Report Preparation		
Prepare the draft reprot		YES / NO :
Does the Report match Method and Criteria?		YES / NO : *(check COC, estimate send to customer and the top part of this check list)*
Verify customer information on first page of previewed report (vs. COC or e-mail info)		
Insert in the PDF report: - Raja or Al's signature and check signature date - the scanned COC page at the end of the report		
Print, Optimize and Secure the report		
E-mail copy of the PDF report to client and other authorized contacts and organizations (enter date sent)		9/6/16
Invoicing		
Invoice Matches PO/Quote w/ correct ReportID & Billing Reference		✓
Invoice Number and Date		55929
Date invoice sent to customer and other authorized contacts		9/8/16

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825005.D
Sample Name: F14-01

==========

Acq. Operator : SYSTEM
Seq. Line : 3
Acq. Instrument : Agilent 1260
Location : Vial 3
Injection Date : 8/25/2016 10:14:20 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-01



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.272	1	BB	13.52167	1.42688e-2	385.87702		Formaldehyde;50-00-0
6.283	1	BB	8.81420	1.87009e-2	329.66773		Acetaldehyde;75-07-0

Totals : 715.54475

==========

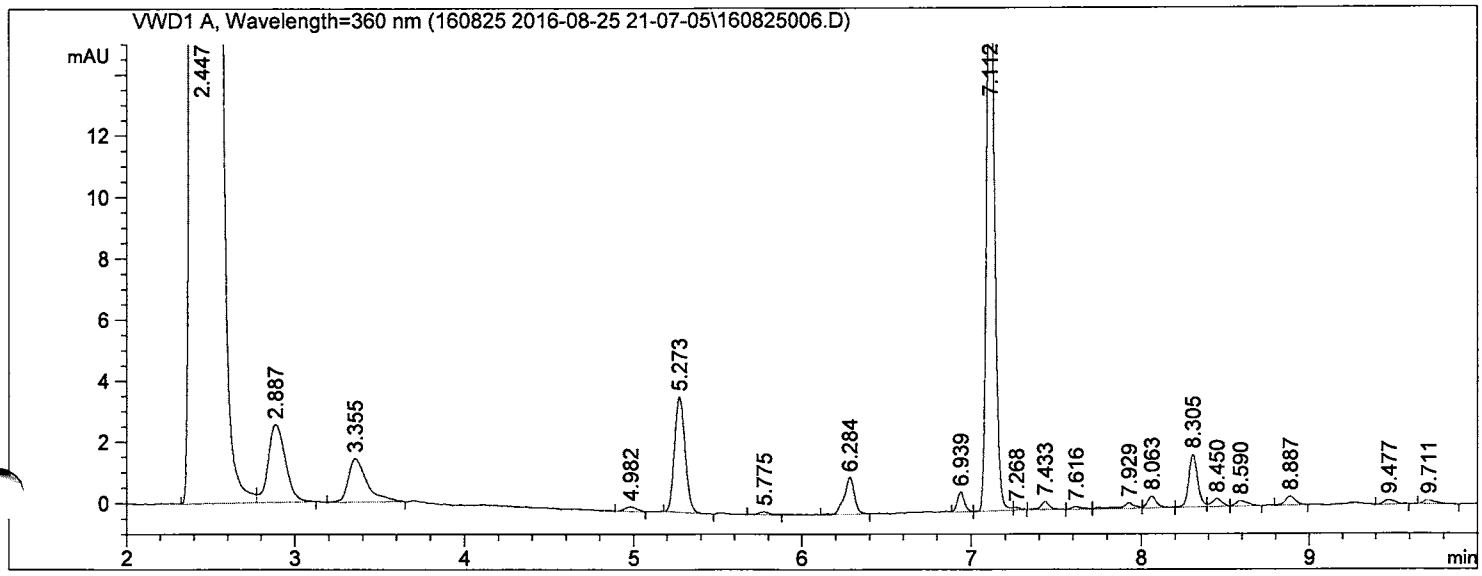
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825006.D
Sample Name: F14-02

==========

Acq. Operator : SYSTEM
Seq. Line : 4
Acq. Instrument : Agilent 1260
Location : Vial 4
Injection Date : 8/25/2016 10:31:00 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-02



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.273	1	BB	16.44486	1.42688e-2	469.29812		Formaldehyde;50-00-0
6.284	1	BB	5.15542	1.87009e-2	192.82242		Acetaldehyde;75-07-0

Totals : 662.12054

==========

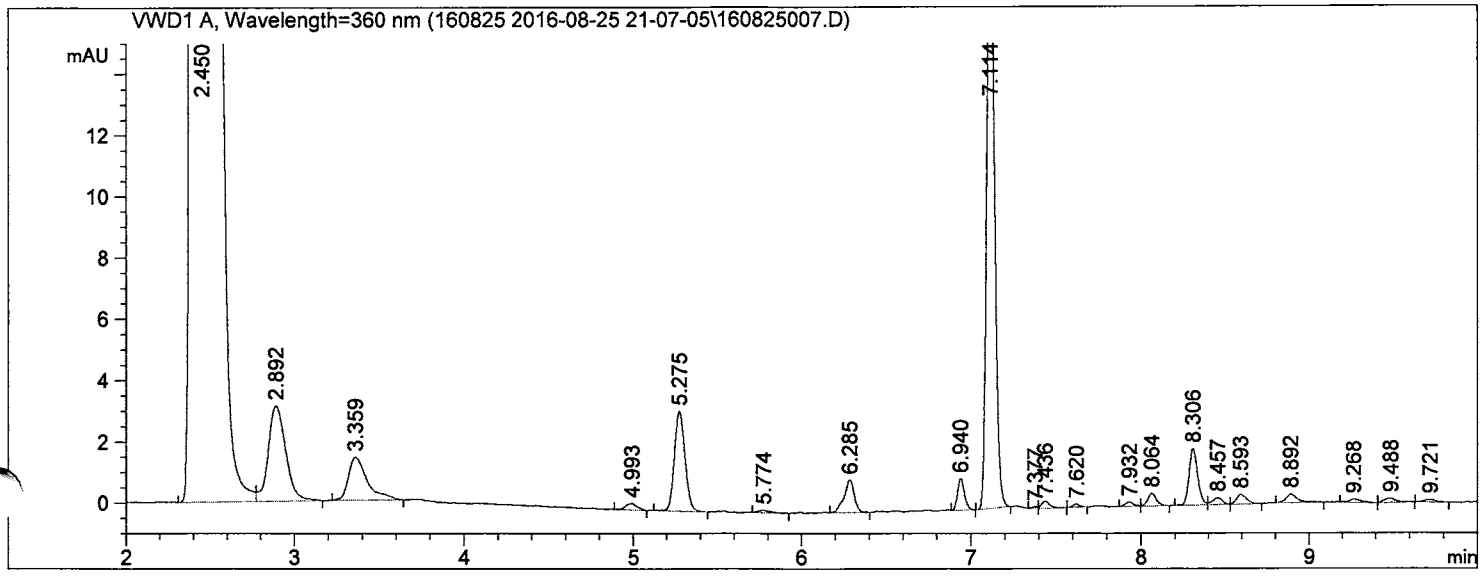
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825007.D
Sample Name: F14-03

==========

Acq. Operator : SYSTEM
Seq. Line : 5
Acq. Instrument : Agilent 1260
Location : Vial 5
Injection Date : 8/25/2016 10:47:40 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-03



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.275	1	BB	14.30408	1.42688e-2	408.20526		Formaldehyde;50-00-0
6.285	1	BB	4.53914	1.87009e-2	169.77232		Acetaldehyde;75-07-0

Totals : 577.97758

==========

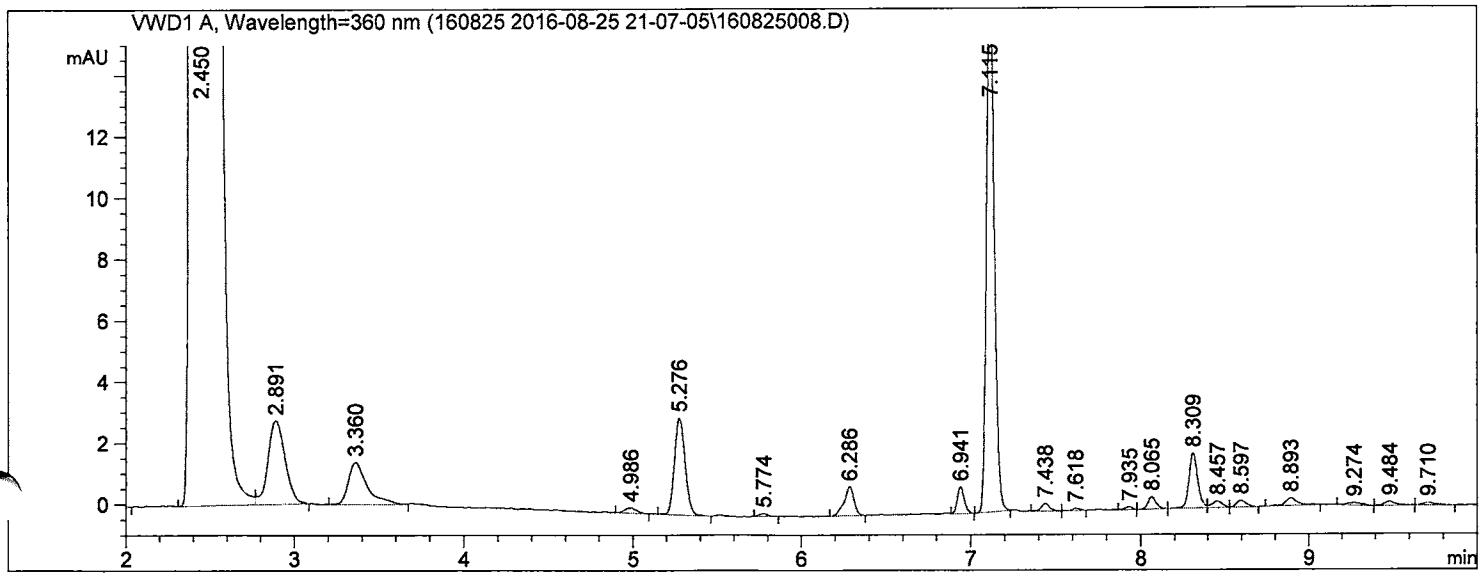
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825008.D
Sample Name: F14-04

==========

Acq. Operator : SYSTEM
Seq. Line : 6
Acq. Instrument : Agilent 1260
Location : Vial 6
Injection Date : 8/25/2016 11:04:21 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-04



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.276	1	BB	13.86259	1.42688e-2	395.60634		Formaldehyde;50-00-0
6.286	1	BB	3.89085	1.87009e-2	145.52529		Acetaldehyde;75-07-0

Totals : 541.13163

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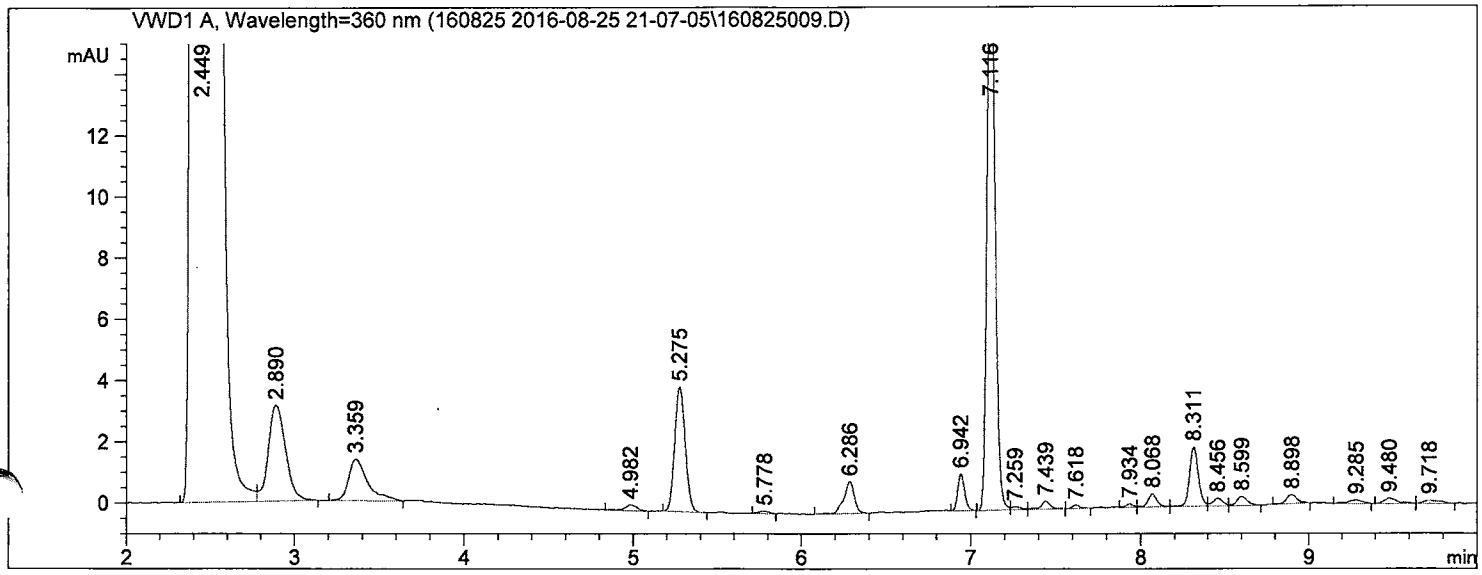
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825009.D
Sample Name: F14-05

==========

Acq. Operator : SYSTEM
Seq. Line : 7
Acq. Instrument : Agilent 1260
Location : Vial 7
Injection Date : 8/25/2016 11:21:00 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-05



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.275	1	BB	17.61029	1.42688e-2	502.55690		Formaldehyde;50-00-0
6.286	1	BB	4.58888	1.87009e-2	171.63294		Acetaldehyde;75-07-0

Totals : 674.18984

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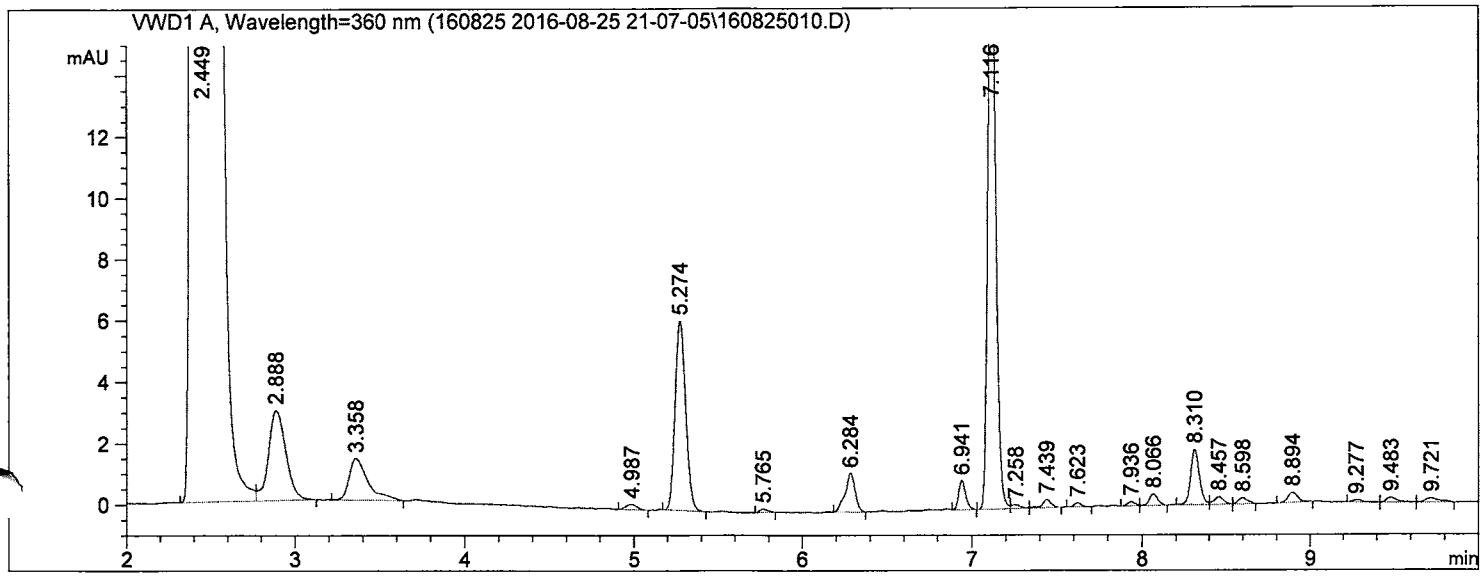
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825010.D
Sample Name: F14-06

==========

Acq. Operator : SYSTEM
Seq. Line : 8
Acq. Instrument : Agilent 1260
Location : Vial 8
Injection Date : 8/25/2016 11:37:41 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-06



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.274	1	BB	26.86544	1.42688e-2	766.67739		Formaldehyde;50-00-0
6.284	1	BB	5.12611	1.87009e-2	191.72630		Acetaldehyde;75-07-0

Totals : 958.40369

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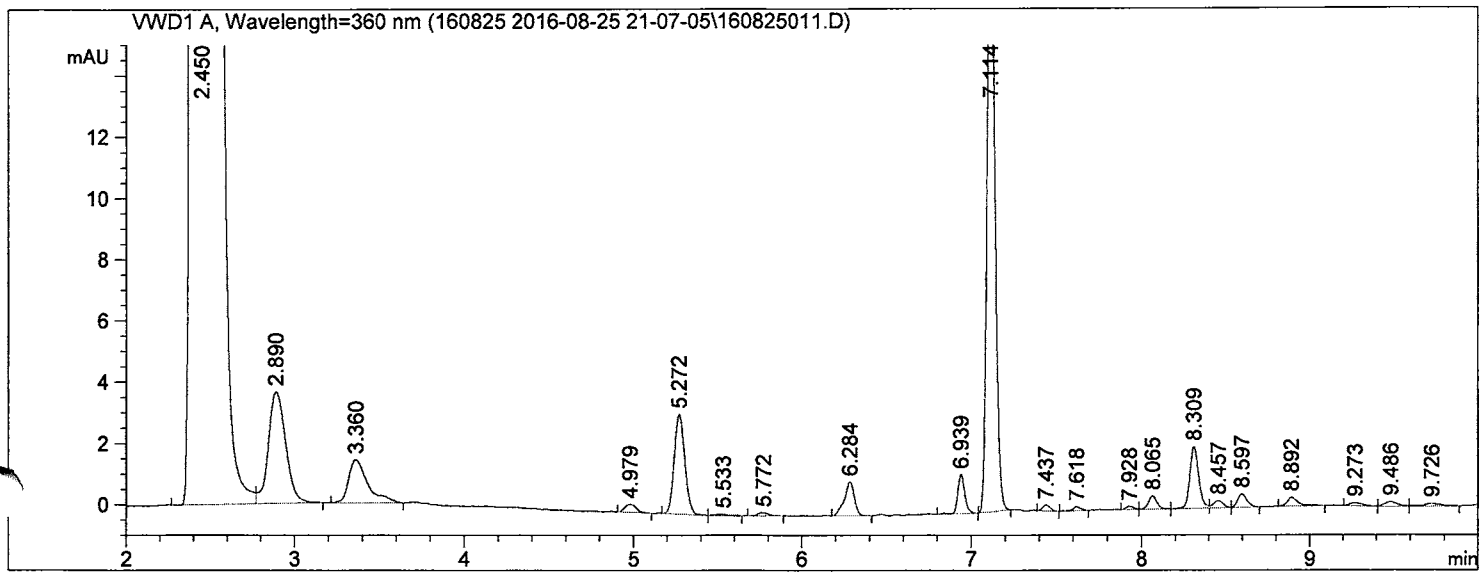
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825011.D
Sample Name: F14-07

==========

Acq. Operator : SYSTEM Seq. Line : 9
Acq. Instrument : Agilent 1260 Location : Vial 9
Injection Date : 8/25/2016 11:54:21 PM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-07



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.272	1	BB	14.20615	1.42688e-2	405.41070		Formaldehyde;50-00-0
6.284	1	BB	4.63769	1.87009e-2	173.45829		Acetaldehyde;75-07-0

Totals : 578.86899

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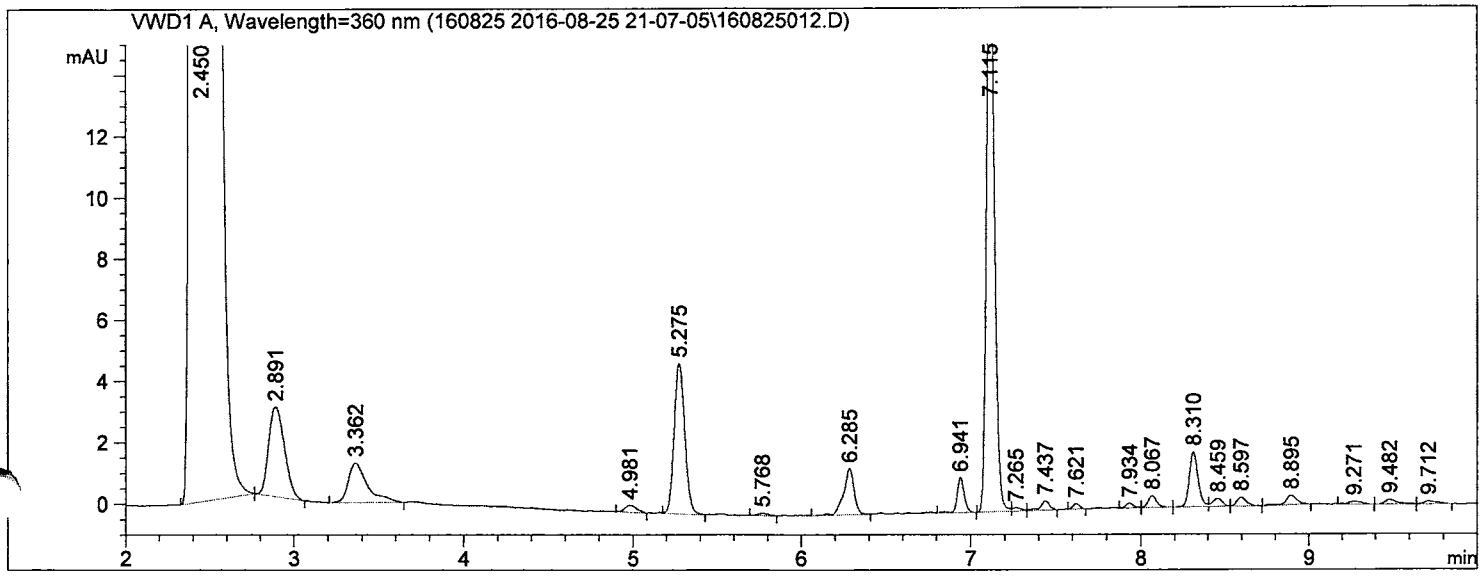
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825012.D
Sample Name: F14-08

==========

Acq. Operator : SYSTEM
Seq. Line : 10
Acq. Instrument : Agilent 1260
Location : Vial 10
Injection Date : 8/26/2016 12:11:03 AM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-08



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.275	1	VB	21.37078	1.42688e-2	609.87248		Formaldehyde;50-00-0
6.285	1	BV	6.60796	1.87009e-2	247.15001		Acetaldehyde;75-07-0

Totals : 857.02249

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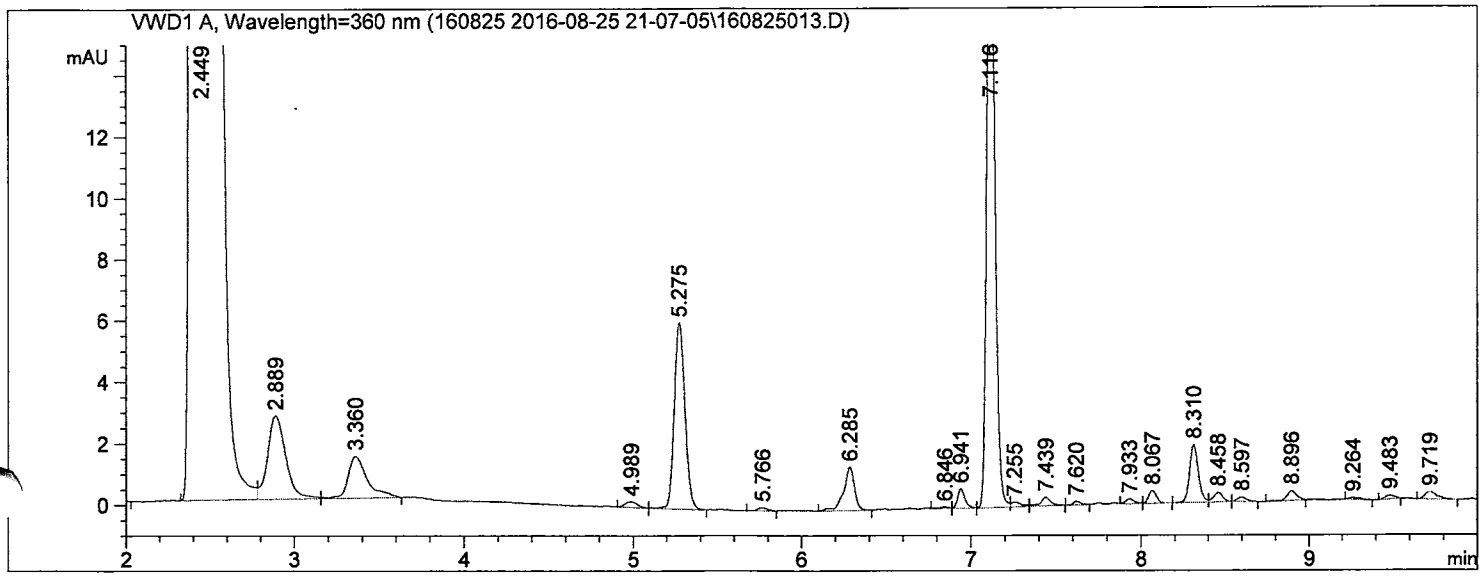
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825013.D
Sample Name: F14-09

==========

Acq. Operator : SYSTEM
Seq. Line : 11
Acq. Instrument : Agilent 1260
Location : Vial 11
Injection Date : 8/26/2016 12:27:47 AM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-09



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.275	1	BB	26.63146	1.42688e-2	760.00008		Formaldehyde;50-00-0
6.285	1	BB	6.37957	1.87009e-2	238.60814		Acetaldehyde;75-07-0

Totals : 998.60822

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*** End of Report ***

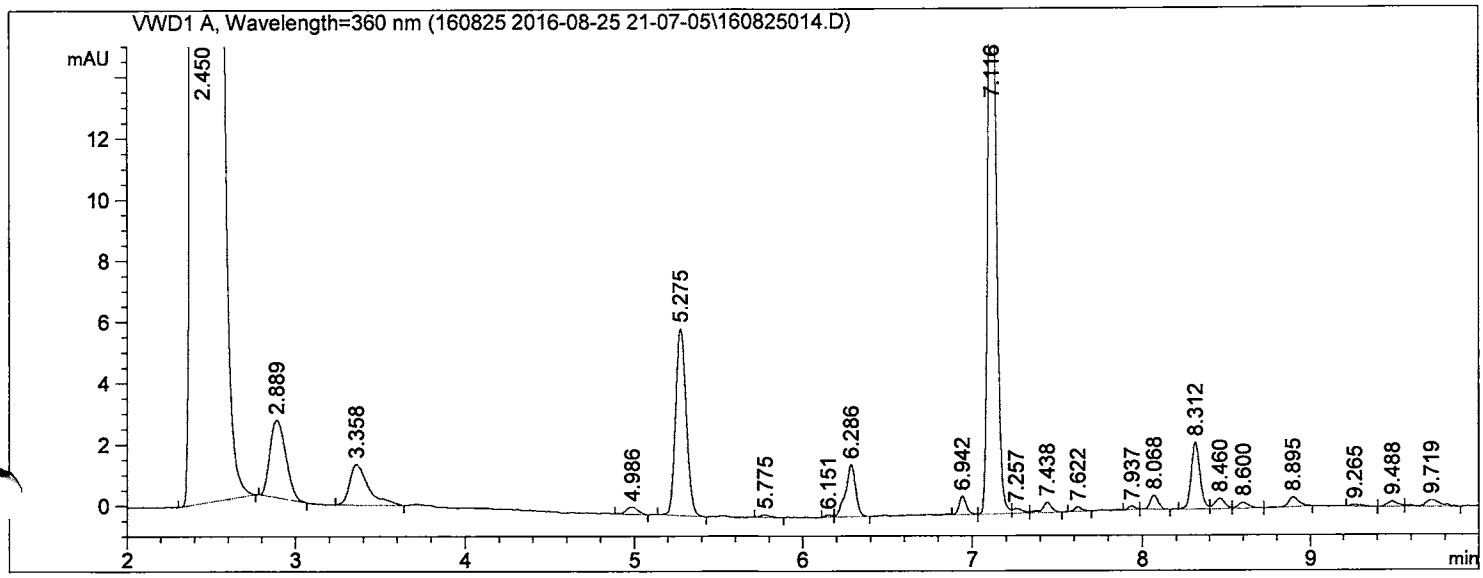
Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825014.D
Sample Name: F14-10

==========

Acq. Operator : SYSTEM
Seq. Line : 12
Acq. Instrument : Agilent 1260
Location : Vial 12
Injection Date : 8/26/2016 12:44:28 AM
Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-10



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.275	1	BB	26.68378	1.42688e-2	761.49340		Formaldehyde;50-00-0
6.286	1	VB	7.14764	1.87009e-2	267.33538		Acetaldehyde;75-07-0

Totals : 1028.82879

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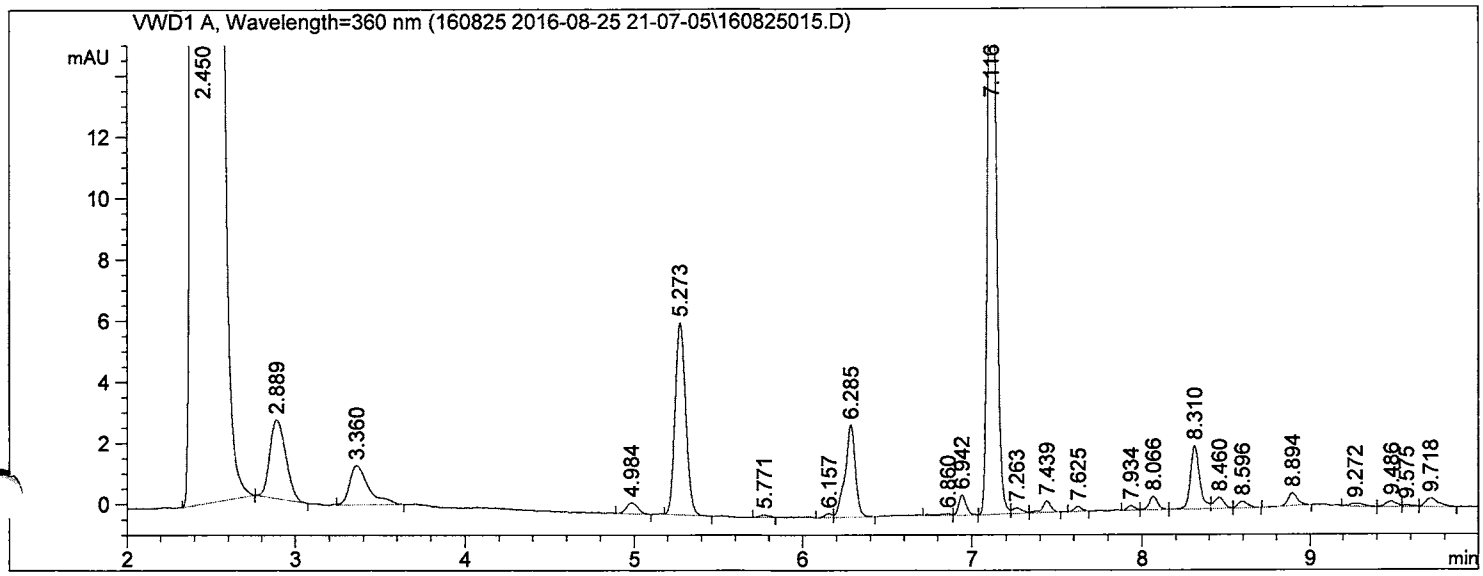
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825015.D
Sample Name: F14-11

==========

Acq. Operator : SYSTEM Seq. Line : 13
Acq. Instrument : Agilent 1260 Location : Vial 13
Injection Date : 8/26/2016 1:01:08 AM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-11



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.273	1	BB	27.35617	1.42688e-2	780.68180		Formaldehyde;50-00-0
6.285	1	VB	12.78240	1.87009e-2	478.08575		Acetaldehyde;75-07-0

Totals : 1258.76756

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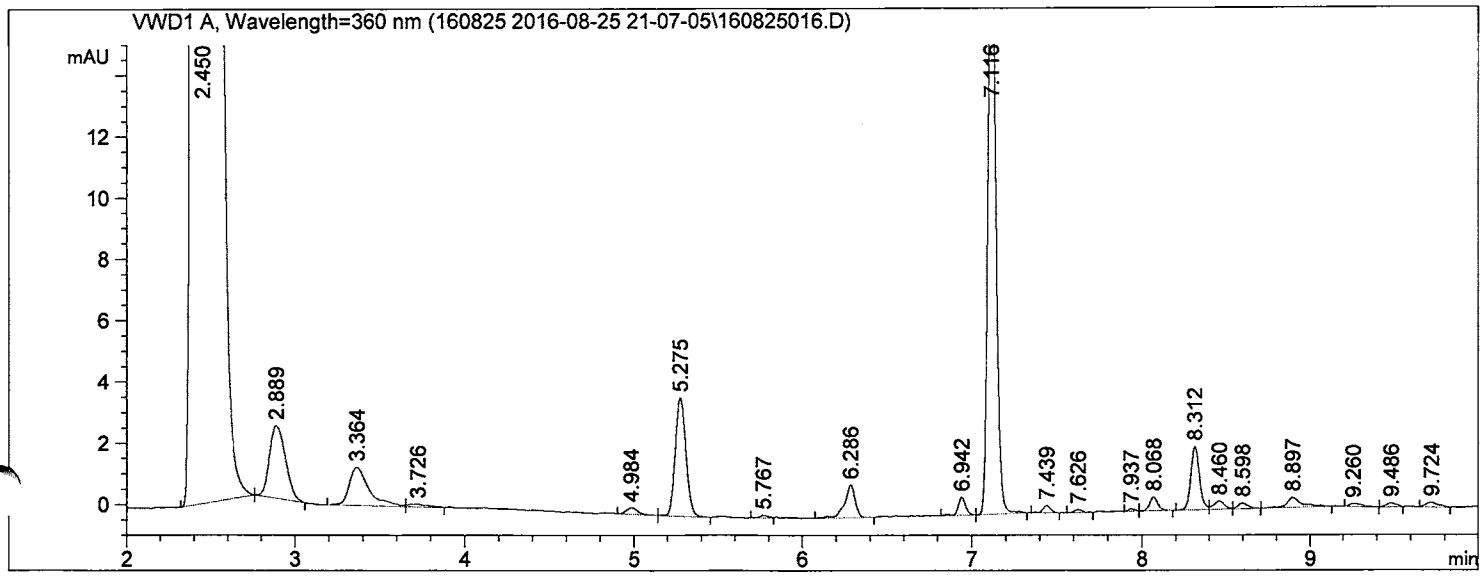
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825016.D
Sample Name: F14-12

==========

Acq. Operator : SYSTEM Seq. Line : 14
Acq. Instrument : Agilent 1260 Location : Vial 14
Injection Date : 8/26/2016 1:17:49 AM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-12



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.275	1	VB	17.01414	1.42688e-2	485.54418		Formaldehyde;50-00-0
6.286	1	BB	4.75691	1.87009e-2	177.91728		Acetaldehyde;75-07-0

Totals : 663.46146

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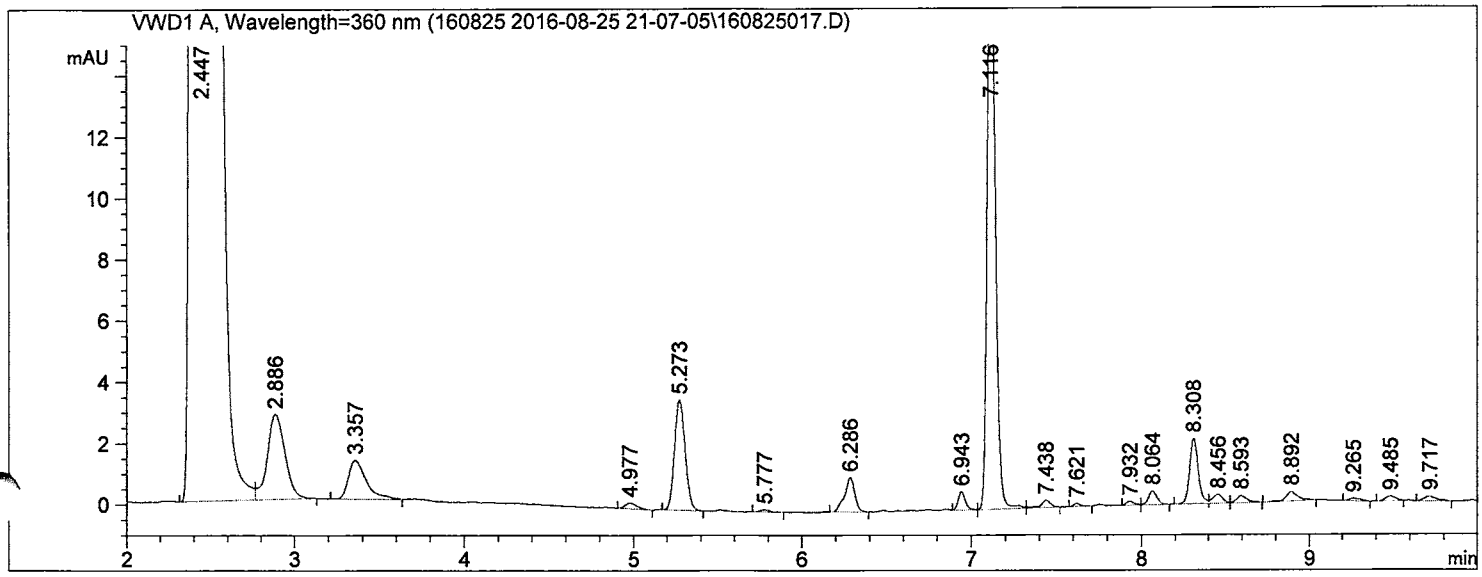
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825017.D
Sample Name: F14-13

==========

Acq. Operator : SYSTEM
Seq. Line : 15
Acq. Instrument : Agilent 1260
Location : Vial 15
Injection Date : 8/26/2016 1:34:28 AM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-13



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.273	1	BB	15.72083	1.42688e-2	448.63597		Formaldehyde;50-00-0
6.286	1	BB	4.78182	1.87009e-2	178.84898		Acetaldehyde;75-07-0

Totals : 627.48495

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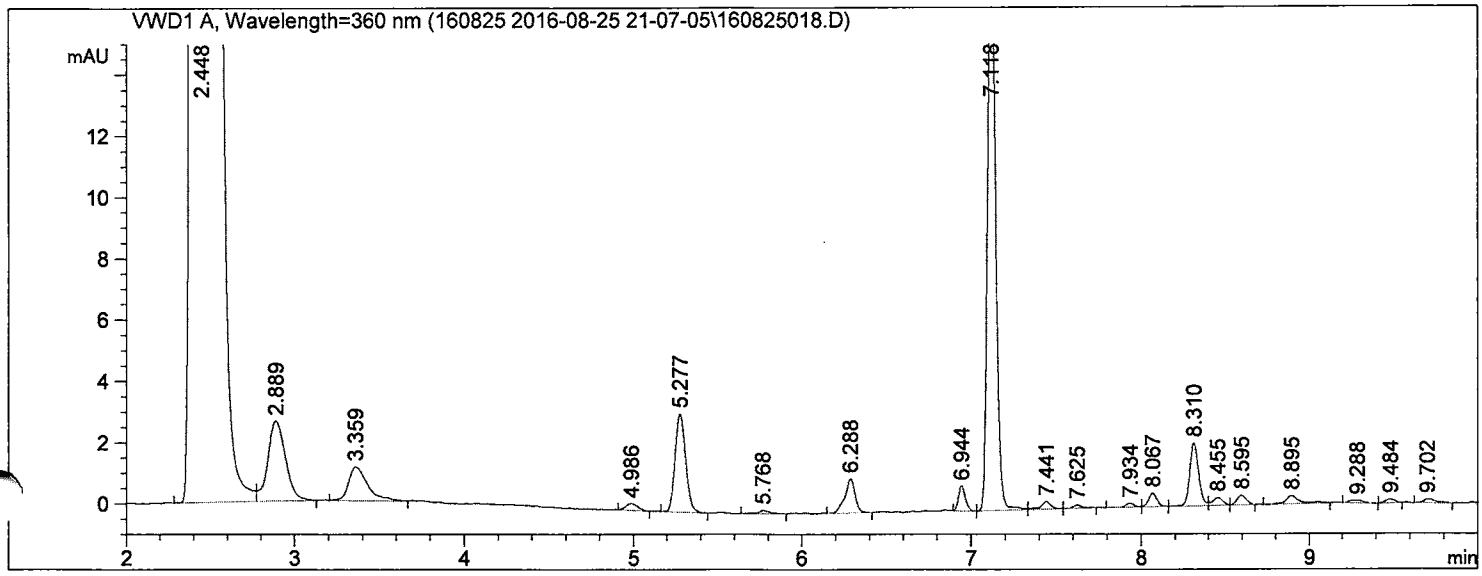
*** End of Report ***

Data File C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\160825018.D
Sample Name: F14-14

==========

Acq. Operator : SYSTEM Seq. Line : 16
Acq. Instrument : Agilent 1260 Location : Vial 16
Injection Date : 8/26/2016 1:51:08 AM Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160825 2016-08-25 21-07-05\FORMALDEHYDE.M
Last changed : 8/25/2016 9:07:05 PM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/29/2016 10:08:12 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-14



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/29/2016 10:08:12 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
5.277	1	BB	13.96880	1.42688e-2	398.63724		Formaldehyde;50-00-0
6.288	1	BV	4.77743	1.87009e-2	178.68476		Acetaldehyde;75-07-0

Totals : 577.32200

==========

*** End of Report ***

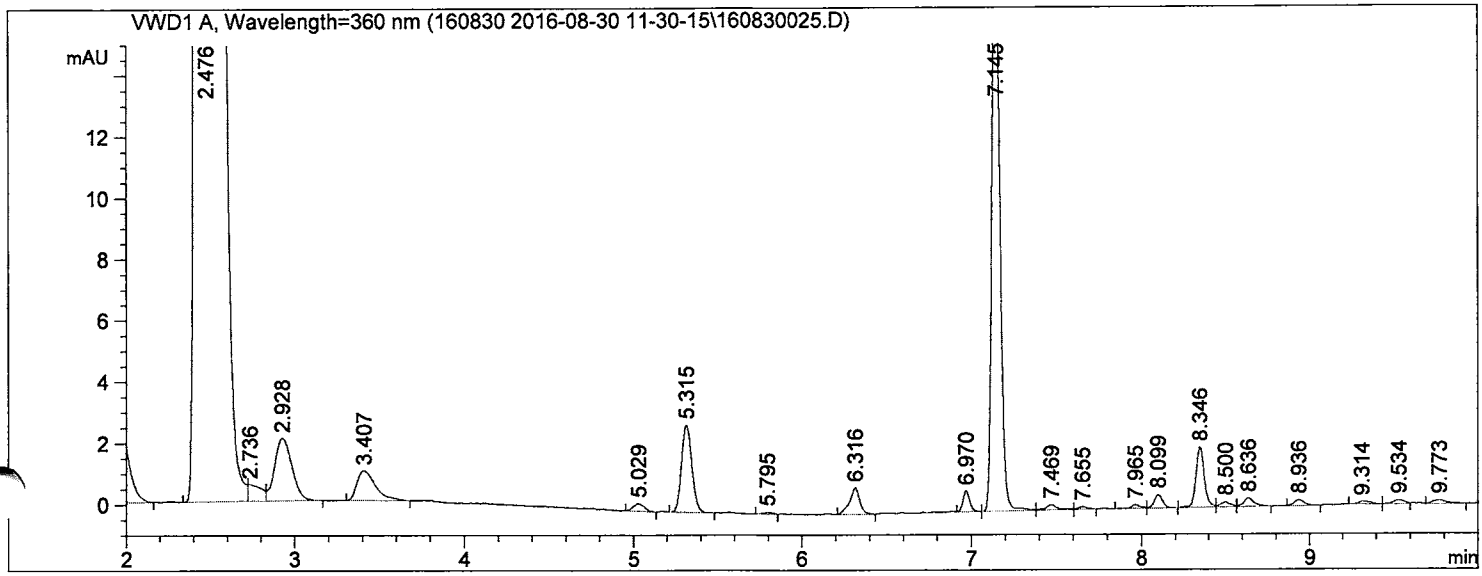
Data File C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\160830025.D
Sample Name: F14-15

==========

Acq. Operator : SYSTEM
Seq. Line : 24
Acq. Instrument : Agilent 1260
Location : Vial 42
Injection Date : 8/30/2016 6:11:17 PM
Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\FORMALDEHYDE.M
Last changed : 8/30/2016 11:30:15 AM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/31/2016 11:31:36 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-15



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/31/2016 11:31:32 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
5.315	1	BB	12.04106	1.42688e-2	343.62403		Formaldehyde;50-00-0
6.316	1	BB	3.61547	1.87009e-2	135.22536		Acetaldehyde;75-07-0

Totals : 478.84939

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*** End of Report ***

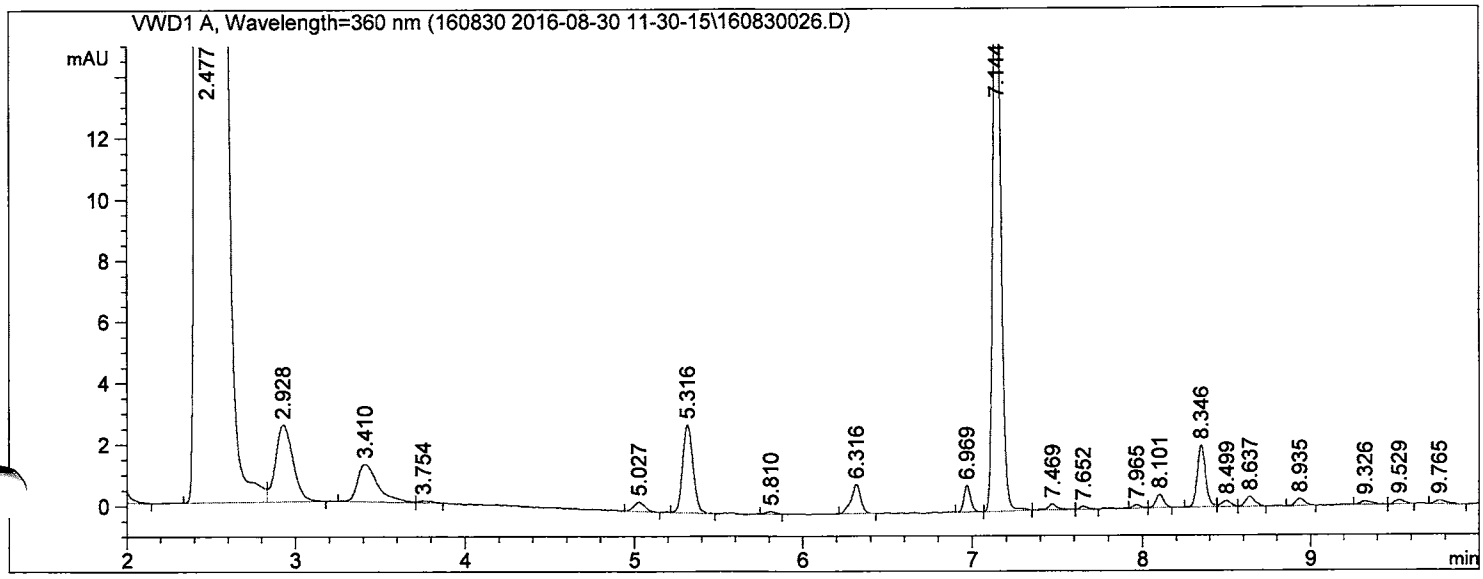
Data File C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\160830026.D
Sample Name: F14-16

==========

Acq. Operator : SYSTEM
Seq. Line : 25
Acq. Instrument : Agilent 1260
Location : Vial 43
Injection Date : 8/30/2016 6:27:57 PM
Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\FORMALDEHYDE.M
Last changed : 8/30/2016 11:30:15 AM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/31/2016 11:31:36 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-16



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/31/2016 11:31:32 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
5.316	1	BB	12.12873	1.42688e-2	346.12599		Formaldehyde;50-00-0
6.316	1	BB	3.76337	1.87009e-2	140.75721		Acetaldehyde;75-07-0

Totals : 486.88320

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*** End of Report ***

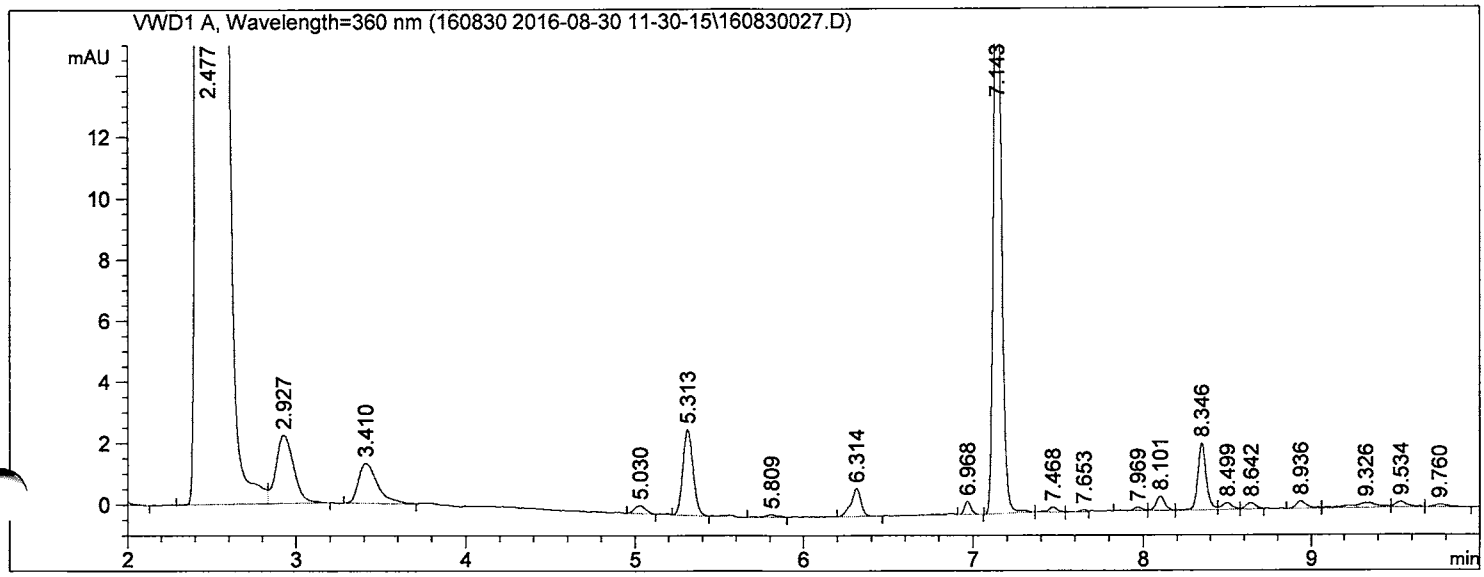
Data File C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\160830027.D
Sample Name: F14-17

==========

Acq. Operator : SYSTEM Seq. Line : 26
Acq. Instrument : Agilent 1260 Location : Vial 44
Injection Date : 8/30/2016 6:44:37 PM Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\FORMALDEHYDE.M
Last changed : 8/30/2016 11:30:15 AM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/31/2016 11:31:36 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-17



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/31/2016 11:31:32 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
5.313	1	BB	11.70012	1.42688e-2	333.89443		Formaldehyde;50-00-0
6.314	1	BB	3.75947	1.87009e-2	140.61146		Acetaldehyde;75-07-0

Totals : 474.50590

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*** End of Report ***

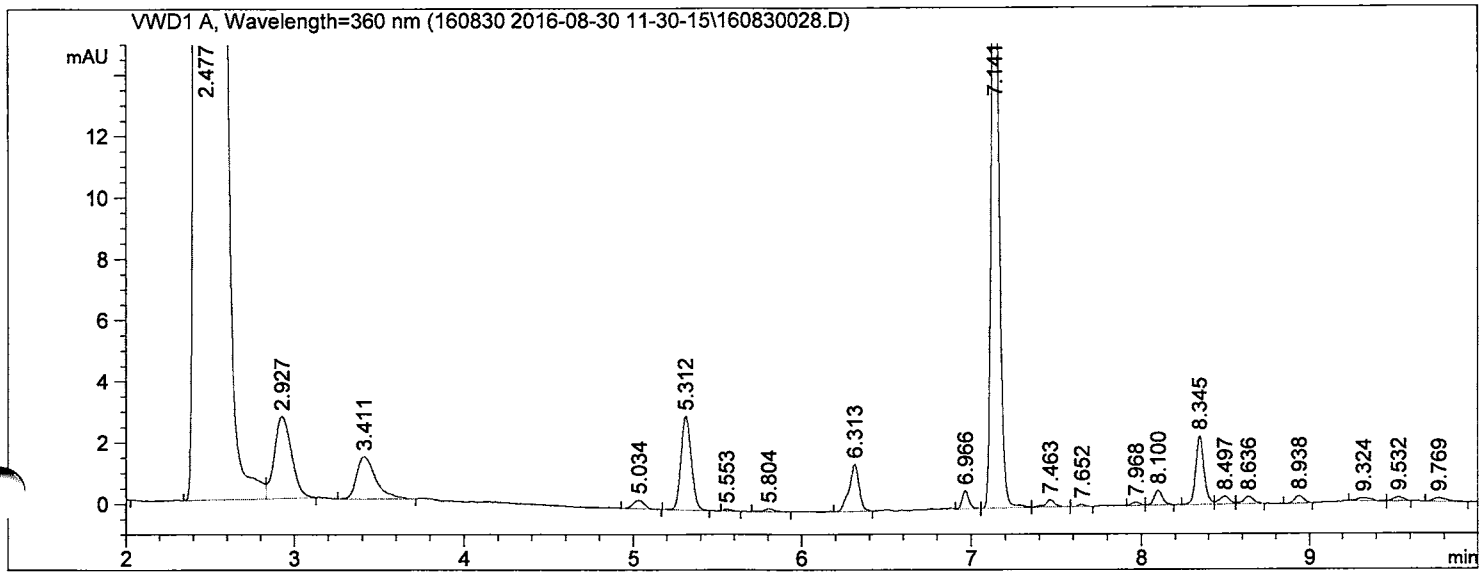
Data File C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\160830028.D
Sample Name: F14-18

==========

Acq. Operator : SYSTEM Seq. Line : 27
Acq. Instrument : Agilent 1260 Location : Vial 45
Injection Date : 8/30/2016 7:01:19 PM Inj : 1
Inj Volume : 2.000 µl

Acq. Method : C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\FORMALDEHYDE.M
Last changed : 8/30/2016 11:30:15 AM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/31/2016 11:31:36 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-18



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/31/2016 11:31:32 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
5.312	1	BB	12.97129	1.42688e-2	370.17051		Formaldehyde;50-00-0
6.313	1	BB	6.31129	1.87009e-2	236.05399		Acetaldehyde;75-07-0

Totals : 606.22450

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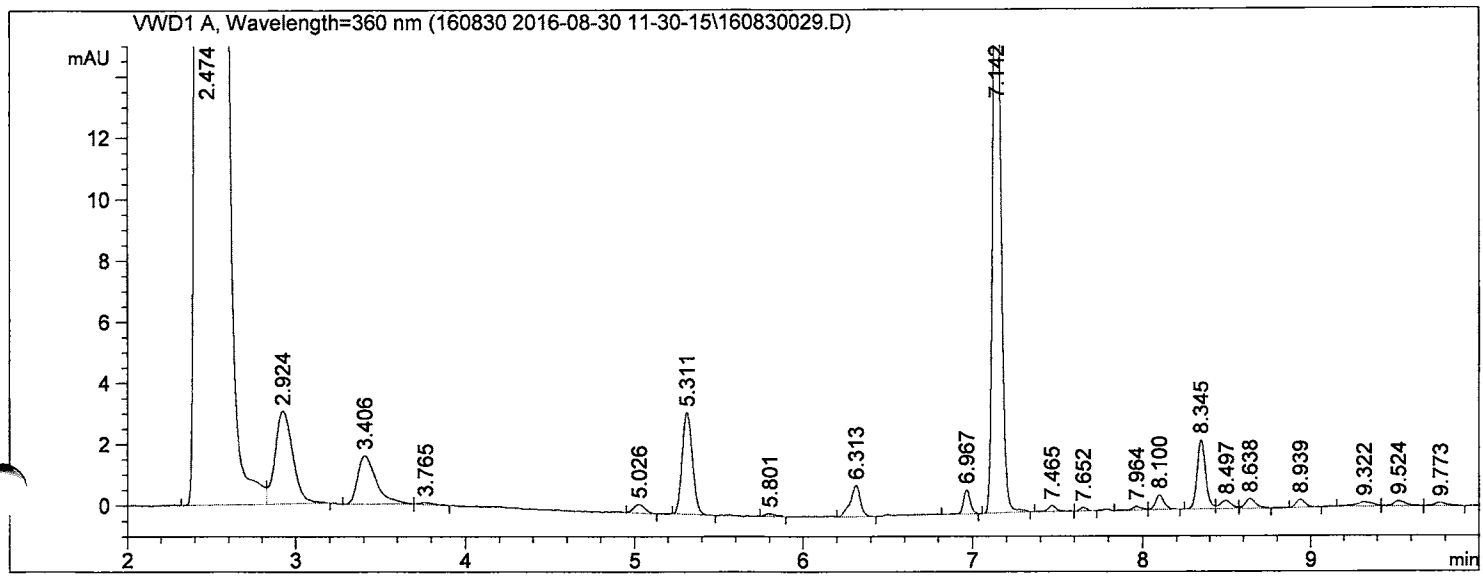
*** End of Report ***

Data File C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\160830029.D
Sample Name: F14-19

==========

Acq. Operator : SYSTEM
Seq. Line : 28
Acq. Instrument : Agilent 1260
Location : Vial 46
Injection Date : 8/30/2016 7:18:01 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\FORMALDEHYDE.M
Last changed : 8/30/2016 11:30:15 AM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/31/2016 11:31:36 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-19



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/31/2016 11:31:32 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
5.311	1	BB	13.98365	1.42688e-2	399.06096		Formaldehyde;50-00-0
6.313	1	BB	4.21848	1.87009e-2	157.77923		Acetaldehyde;75-07-0

Totals : 556.84019

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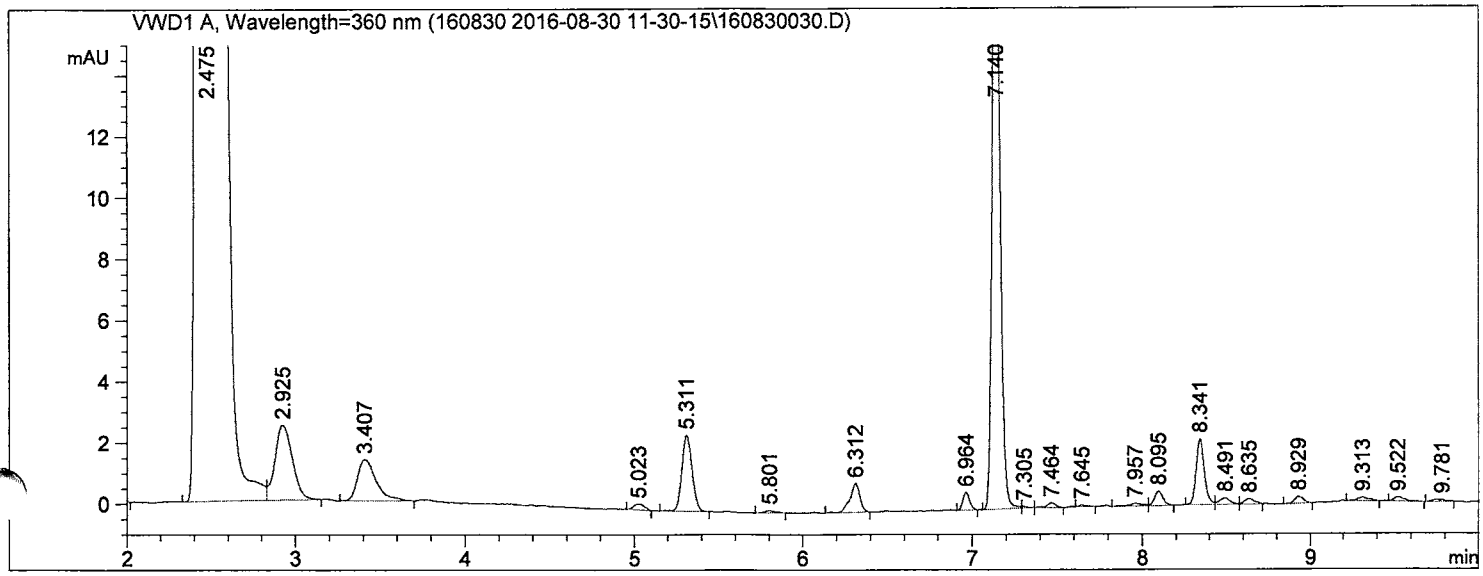
*** End of Report ***

Data File C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\160830030.D
Sample Name: F14-20

==========

Acq. Operator : SYSTEM
Seq. Line : 29
Acq. Instrument : Agilent 1260
Location : Vial 47
Injection Date : 8/30/2016 7:34:42 PM
Inj : 1
Inj Volume : 2.000 µl
Acq. Method : C:\CHEM32\1\DATA\160830 2016-08-30 11-30-15\FORMALDEHYDE.M
Last changed : 8/30/2016 11:30:15 AM by SYSTEM
Analysis Method : C:\CHEM32\1\METHODS\FORMALDEHYDE.M
Last changed : 8/31/2016 11:31:36 AM by SYSTEM
(modified after loading)
Method Info : 2.1*100; 2.7um poroshell 120 EC-C18 column;

Sample Info : US EPA F14-20



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External Standard Report

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Sorted By : Retention Time
Calib. Data Modified : 8/31/2016 11:31:32 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
5.311	1	BB	10.53059	1.42688e-2	300.51868		Formaldehyde;50-00-0
6.312	1	BB	3.92692	1.87009e-2	146.87441		Acetaldehyde;75-07-0

Totals : 447.39308

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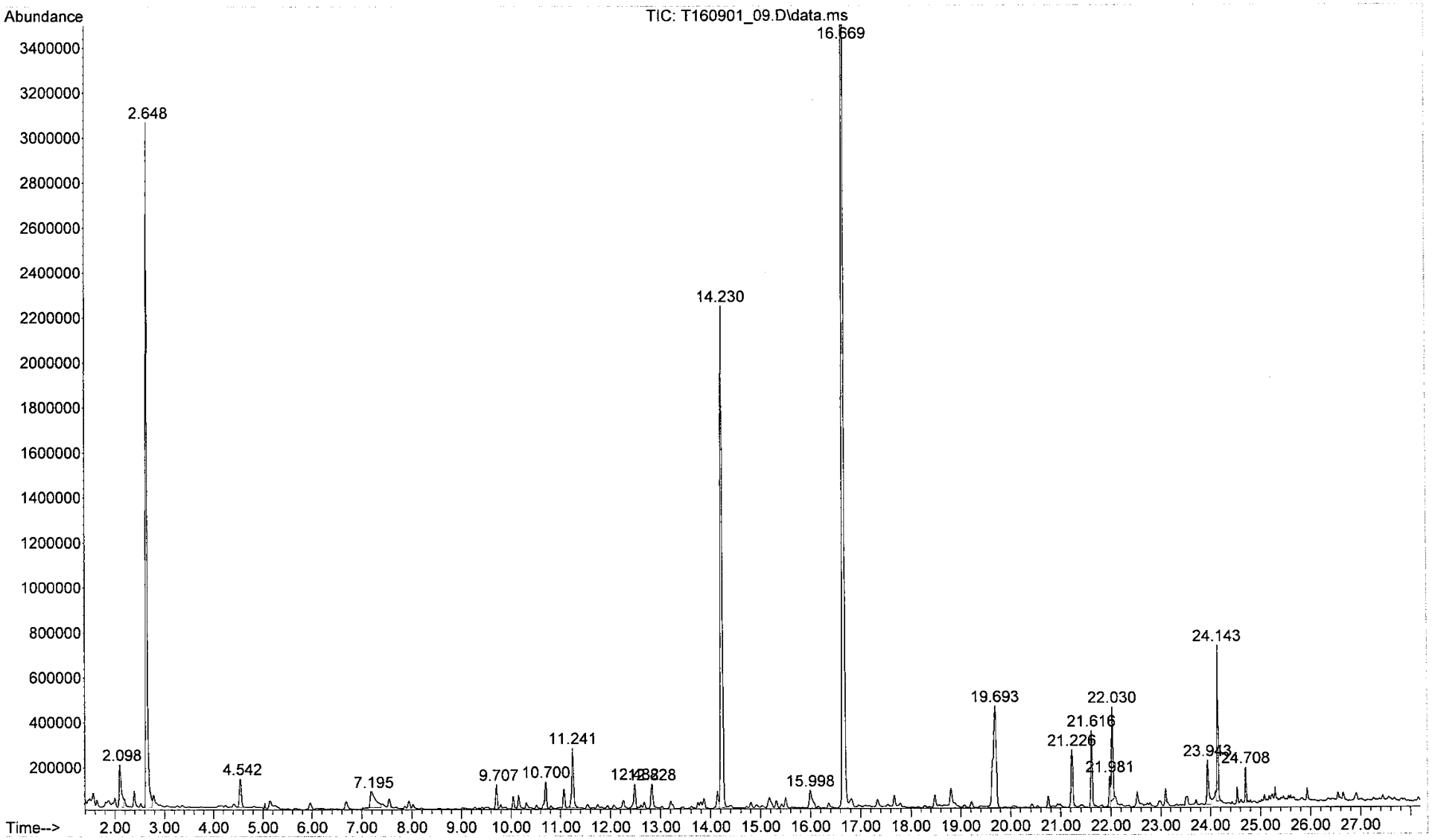
*** End of Report ***

File :C:\msdchem\1\data\2016\Sept\T160901_09.D
Operator : rgill
Acquired : 2 Sep 2016 12:19 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-01; 242484; 5.69L
Misc Info : C14-01; 111ngBFB;10:1 split
Vial Number: 9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_09.D
Acq On : 2 Sep 2016 12:19 am
Operator : rgill
Sample : US EPA_061-036-01; 242484; 5.69L
Misc : C14-01; 111ngBFB;10:1 split
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 20:10:09 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	14.230	95	1128568	111.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	14.230	95	1128568	111.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	14.230	95	1128568	111.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	14.230	95	1128568	111.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	14.230	95	1128568	111.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	14.230	95	1128568	111.00 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	9.702	91	101165	5.79 ng	# 18
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.	
8) Xylene {1}; 1330-20-7	0.000		0	N.D.	
9) Xylene {2}; 1330-20-7	0.000		0	N.D.	
10) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.	
12) Octanal; 124-13-0	0.000		0	N.D.	
13) Phenol; 108-95-2	0.000		0	N.D.	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D.	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.943	113	54889m	21.57 ng	
22) 1-Methoxy-2-propanol; ...	7.190	45	159305	18.70 ng	# 48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	11.241	43	102593	10.88 ng	# 47
25) Propylene glycol; 57-55-6	11.241	45	377278	58.69 ng	# 84
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.	
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D.	
34) Ethanol; 64-17-5	2.098	31	250933	77.49 ng	# 85
35) 2-Propanone(acetone); ...	0.000		0	N.D.	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.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	4.547	43	217450	28.03 ng	# 55
43) Ethyl acetate; 141-78-6	4.547	43	217450	30.34 ng	# 70
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_10.D
Acq On : 2 Sep 2016 1:14 am
Operator : rgill
Sample : US EPA_061-036-02; Mi51173; 5.58L
Misc : C14-02; 111ngBFB;10:1 split
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 20:09:46 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1191453	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1191453	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1191453	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1191453	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1191453	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1191453	111.00 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	9.702	91	102983	5.58 ng	#	18
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	18.481	94	109764	10.28 ng	#	46
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	42290m	15.74 ng		
22) 1-Methoxy-2-propanol; ...	7.156	45	330515	36.75 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	11.260	43	326271	32.77 ng	#	46
25) Propylene glycol; 57-55-6	11.260	45	1725101	254.18 ng	#	70
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.390	43	244291	40.59 ng	#	25
34) Ethanol; 64-17-5	2.098	31	147324	43.09 ng	#	29
35) 2-Propanone(acetone); ...	2.390	43	244291	38.59 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	2.521	45	112136	15.29 ng	#	62
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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_11.D
Acq On : 2 Sep 2016 2:10 am
Operator : rgill
Sample : US EPA_061-036-03; 203157; 5.98L
Misc : C14-03; 111ngBFB;10:1 split
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 20:09:19 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082:
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.230	95	1087914	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.230	95	1087914	111.00 ng	#	0.00
32) 1-Bromo-4-flourobenzen...	14.230	95	1087914	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.230	95	1087914	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.230	95	1087914	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.230	95	1087914	111.00 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.		
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	15.993	105	287450	16.03 ng	#	31
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	103773	42.31 ng	#	63
22) 1-Methoxy-2-propanol; ...	7.190	45	123389	15.03 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	0.000		0	N.D.		
25) Propylene glycol; 57-55-6	11.241	45	296318	47.82 ng	#	38
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	17.672	57	106564	12.76 ng	#	51
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.395	43	149305	27.17 ng	#	25
34) Ethanol; 64-17-5	0.000		0	N.D.		
35) 2-Propanone(acetone); ...	2.395	43	149305	25.83 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_12.D
Acq On : 2 Sep 2016 3:06 am
Operator : rgill
Sample : US EPA_061-036-04; 242486; 6.36L
Misc : C14-04; 111ngBFB;10:1 split
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 20:08:57 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082:
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	14.226	95	1150397	111.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	14.226	95	1150397	111.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	14.226	95	1150397	111.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	14.226	95	1150397	111.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	14.226	95	1150397	111.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	14.226	95	1150397	111.00 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.	
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.	
8) Xylene {1}; 1330-20-7	0.000		0	N.D.	
9) Xylene {2}; 1330-20-7	0.000		0	N.D.	
10) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.	
12) Octanal; 124-13-0	0.000		0	N.D.	
13) Phenol; 108-95-2	0.000		0	N.D.	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D.	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.943	113	120945	46.63 ng	# 63
22) 1-Methoxy-2-propanol; ...	7.210	45	102599	11.81 ng	# 48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	11.246	43	111733	11.62 ng	# 47
25) Propylene glycol; 57-55-6	11.246	45	567344	86.58 ng	# 72
26) 2-Butoxyethanol; 111-76-2	14.138	57	105611	14.00 ng	# 44
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D.	
34) Ethanol; 64-17-5	0.000		0	N.D.	
35) 2-Propanone(acetone); ...	0.000		0	N.D.	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.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.	
43) Ethyl acetate; 141-78-6	0.000		0	N.D.	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_13.D
Acq On : 2 Sep 2016 4:01 am
Operator : rgill
Sample : US EPA_061-036-05; Mi51139; 6.16L
Misc : C14-05; 111ngBFB;10:1 split
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 05 20:08:37 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082:
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.226	95	1118653	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.226	95	1118653	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.226	95	1118653	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.226	95	1118653	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.226	95	1118653	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.226	95	1118653	111.00 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	9.703	91	159295	9.19 ng	#	18
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	126987	50.35 ng	#	64
22) 1-Methoxy-2-propanol; ...	7.161	45	278259	32.95 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	11.241	43	118662	12.69 ng	#	47
25) Propylene glycol; 57-55-6	11.246	45	571869	89.75 ng	#	73
26) 2-Butoxyethanol; 111-76-2	14.138	57	225411	30.72 ng	#	44
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.390	43	670309	118.61 ng	#	25
34) Ethanol; 64-17-5	2.103	31	130590	40.69 ng	#	29
35) 2-Propanone(acetone); ...	2.521	43	248448	41.80 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	2.521	45	1319236	191.58 ng	#	96
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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_14.D
Acq On : 2 Sep 2016 4:56 am
Operator : rgill
Sample : US EPA_061-036-06; 242448; 6.29L
Misc : C14-06; 111ngBFB;10:1 split
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 05 20:08:21 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082:
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1165618	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1165618	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1165618	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1165618	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1165618	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1165618	111.00 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	9.702	91	179998	9.97 ng		94
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.943	113	86811m	33.04 ng		
22) 1-Methoxy-2-propanol; ...	7.171	45	178746	20.31 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	11.246	43	191236	19.63 ng	#	47
25) Propylene glycol; 57-55-6	11.246	45	962784	145.01 ng	#	72
26) 2-Butoxyethanol; 111-76-2	14.138	57	150862	19.73 ng	#	44
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	0.000		0	N.D.		
34) Ethanol; 64-17-5	0.000		0	N.D.		
35) 2-Propanone(acetone); ...	0.000		0	N.D.		
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_15.D
Acq On : 2 Sep 2016 5:52 am
Operator : rgill
Sample : US EPA_061-036-07; 242412; 6.14L
Misc : C14-07; 111ngBFB;10:1 split
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 20:07:49 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	14.230	95	1109300	111.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	14.230	95	1109300	111.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	14.230	95	1109300	111.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	14.230	95	1109300	111.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	14.230	95	1109300	111.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	14.230	95	1109300	111.00 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.	
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.	
8) Xylene {1}; 1330-20-7	0.000		0	N.D.	
9) Xylene {2}; 1330-20-7	0.000		0	N.D.	
10) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.	
12) Octanal; 124-13-0	0.000		0	N.D.	
13) Phenol; 108-95-2	0.000		0	N.D.	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D.	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.948	113	15397m	6.16 ng	
22) 1-Methoxy-2-propanol; ...	0.000		0	N.D.	
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D.	
25) Propylene glycol; 57-55-6	0.000		0	N.D.	
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.	
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D.	
34) Ethanol; 64-17-5	0.000		0	N.D.	
35) 2-Propanone(acetone); ...	0.000		0	N.D.	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.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.	
43) Ethyl acetate; 141-78-6	0.000		0	N.D.	
44) Chloroform;67-66-3	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_16.D
Acq On : 2 Sep 2016 6:47 am
Operator : rgill
Sample : US EPA_061-036-08; 203173; 5.96L
Misc : C14-08; 111ngBFB;10:1 split
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 20:07:26 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082:
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1038823	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1038823	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1038823	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1038823	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1038823	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1038823	111.00 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	9.702	91	158227	9.83 ng	#	18
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	12.482	91	102260	5.45 ng	#	40
8) Xylene {1}; 1330-20-7	12.482	91	102260	6.95 ng	#	29
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	15.998	105	101469	5.93 ng	#	31
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.943	113	44434m	18.97 ng		
22) 1-Methoxy-2-propanol; ...	7.156	45	198269	25.28 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	11.246	43	137936	15.89 ng	#	47
25) Propylene glycol; 57-55-6	11.246	45	654320	110.58 ng	#	74
26) 2-Butoxyethanol; 111-76-2	14.138	57	194603	28.56 ng	#	44
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.395	43	192707	36.72 ng	#	25
34) Ethanol; 64-17-5	0.000		0	N.D.		
35) 2-Propanone(acetone); ...	2.395	43	192707	34.91 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	2.521	45	156740	24.51 ng	#	62
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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_17.D
Acq On : 2 Sep 2016 7:43 am
Operator : rgill
Sample : US EPA_061-036-09; Mi51180; 6.39L
Misc : C14-09; 111ngBFB;10:1 split
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 20:06:59 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1089202	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1089202	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1089202	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1089202	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1089202	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1089202	111.00 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	9.702	91	231650	13.73 ng		93
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	12.482	91	111731	5.68 ng	#	40
8) Xylene {1}; 1330-20-7	12.482	91	111731	7.24 ng	#	29
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	16.791	43	564190	366.52 ng	#	16
13) Phenol; 108-95-2	18.485	94	151258	15.49 ng	#	46
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	156243	63.63 ng		87
22) 1-Methoxy-2-propanol; ...	7.146	45	160765	19.55 ng	#	48
23) Ethylene glycol; 107-21-1	10.296	31	147995	67.73 ng	#	39
24) Butyl acetate; 123-86-4	11.256	43	244897	26.90 ng	#	47
25) Propylene glycol; 57-55-6	11.256	45	1198245	193.13 ng	#	73
26) 2-Butoxyethanol; 111-76-2	14.138	57	646519	90.50 ng		97
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.390	43	190397	34.60 ng	#	25
34) Ethanol; 64-17-5	2.093	31	326703	104.54 ng	#	87
35) 2-Propanone(acetone); ...	2.390	43	190397	32.90 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_18.D
Acq On : 2 Sep 2016 8:38 am
Operator : rgill
Sample : US EPA_061-036-10; Mi51154; 7.49L
Misc : C14-10; 111ngBFB;10:1 split
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 05 20:06:38 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082:
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1129832	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1129832	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1129832	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1129832	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1129832	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1129832	111.00 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	9.702	91	203218	11.61 ng		93
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	12.482	91	265040	12.98 ng	#	78
8) Xylene {1}; 1330-20-7	12.482	91	265040	16.55 ng		100
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	16.791	43	401022	251.15 ng	#	16
13) Phenol; 108-95-2	18.485	94	172959	17.07 ng	#	46
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	123321	48.42 ng	#	61
22) 1-Methoxy-2-propanol; ...	7.132	45	384118	45.04 ng	#	48
23) Ethylene glycol; 107-21-1	10.296	31	191443	83.61 ng	#	39
24) Butyl acetate; 123-86-4	11.255	43	264849	28.05 ng	#	47
25) Propylene glycol; 57-55-6	11.255	45	1323126	205.59 ng	#	72
26) 2-Butoxyethanol; 111-76-2	14.138	57	277349	37.43 ng	#	85
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.390	43	139888	24.51 ng	#	25
34) Ethanol; 64-17-5	2.093	31	241734	74.57 ng	#	87
35) 2-Propanone(acetone); ...	2.390	43	139888	23.30 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_19.D
Acq On : 2 Sep 2016 9:33 am
Operator : rgill
Sample : US EPA_061-036-11; 242405; 6.96L
Misc : C14-11; 111ngBFB;10:1 split
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 05 20:06:13 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.226	95	1147880	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.226	95	1147880	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.226	95	1147880	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.226	95	1147880	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.226	95	1147880	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.226	95	1147880	111.00 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	9.703	91	186779	10.50 ng		93
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	12.483	91	246072	11.87 ng	#	77
8) Xylene {1}; 1330-20-7	12.483	91	246072	15.13 ng		99
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	15.998	105	101043	5.34 ng	#	31
12) Octanal; 124-13-0	16.791	43	219061	135.03 ng	#	16
13) Phenol; 108-95-2	18.486	94	127035	12.34 ng	#	46
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	145647	56.28 ng	#	61
22) 1-Methoxy-2-propanol; ...	7.176	45	201691	23.28 ng	#	48
23) Ethylene glycol; 107-21-1	10.316	31	116931	51.32 ng	#	39
24) Butyl acetate; 123-86-4	11.280	43	506731	52.82 ng	#	46
25) Propylene glycol; 57-55-6	11.280	45	2577180	394.15 ng	#	72
26) 2-Butoxyethanol; 111-76-2	14.138	57	218285	29.00 ng	#	44
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.103	43	181114	31.23 ng	#	25
34) Ethanol; 64-17-5	2.103	31	1499271	455.20 ng		97
35) 2-Propanone(acetone); ...	2.395	43	144609	23.71 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_20.D
Acq On : 2 Sep 2016 10:26 am
Operator : rgill
Sample : US EPA_061-036-12; Mi51160; 5.25L
Misc : C14-12; 111ngBFB;10:1 split
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 05 20:05:49 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards							
1)	1-Bromo-4-flourobenzen...	14.225	95	1152517	111.00 ng		0.00
21)	1-Bromo-4-flourobenzen...	14.225	95	1152517	111.00 ng		0.00
32)	1-Bromo-4-flourobenzen...	14.225	95	1152517	111.00 ng	#	0.00
52)	1-Bromo-4-flourobenzen...	14.225	95	1152517	111.00 ng	#	0.00
66)	1-Bromo-4-flourobenzen...	14.225	95	1152517	111.00 ng	#	0.00
97)	1-Bromo-4-flourobenzen...	14.225	95	1152517	111.00 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	9.702	91	143278	8.02 ng	#	18
5)	Tetrachloroethene; 127...	0.000		0	N.D.		
6)	N,N-Dimethylformamide;...	0.000		0	N.D.		
7)	Ethylbenzene; 100-41-4	12.482	91	226997	10.90 ng	#	76
8)	Xylene {1}; 1330-20-7	12.482	91	226997	13.90 ng		99
9)	Xylene {2}; 1330-20-7	0.000		0	N.D.		
10)	Styrene; 100-42-5	0.000		0	N.D.		
11)	1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12)	Octanal; 124-13-0	16.791	43	299292	183.75 ng	#	16
13)	Phenol; 108-95-2	18.481	94	147976	14.32 ng	#	46
14)	1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15)	1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16)	Nonanal; 124-19-6	0.000		0	N.D.		
17)	2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18)	Naphthalene; 91-20-3	0.000		0	N.D.		
19)	4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20)	Caprolactam; 105-60-2	23.938	113	125894	48.45 ng	#	64
22)	1-Methoxy-2-propanol; ...	7.166	45	187220	21.52 ng	#	48
23)	Ethylene glycol; 107-21-1	10.306	31	129636	56.48 ng	#	39
24)	Butyl acetate; 123-86-4	11.260	43	241582	25.08 ng	#	47
25)	Propylene glycol; 57-55-6	11.260	45	1235652	188.22 ng	#	71
26)	2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27)	Hexanoic acid; 142-62-1	0.000		0	N.D.		
28)	2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29)	2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30)	Dodecanol; 112-53-8	0.000		0	N.D.		
31)	Butylated hydroxytolue...	0.000		0	N.D.		
33)	n-Pentane; 109-66-0	2.395	43	137618	23.64 ng	#	25
34)	Ethanol; 64-17-5	0.000		0	N.D.		
35)	2-Propanone(acetone); ...	2.395	43	137618	22.47 ng	#	48
36)	1,1-Dichloroethylene;7...	0.000		0	N.D.		
37)	2-Propanol; 67-63-0	0.000		0	N.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.		
43)	Ethyl acetate; 141-78-6	0.000		0	N.D.		
44)	Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_21.D
Acq On : 2 Sep 2016 11:20 am
Operator : rgill
Sample : US EPA_061-036-13; 203175; 5.57L
Misc : C14-13; 111ngBFB;10:1 split
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 20:05:29 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1073965	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1073965	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1073965	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1073965	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1073965	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1073965	111.00 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.		
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	16.796	43	284685	187.57 ng	#	16
13) Phenol; 108-95-2	18.485	94	107638	11.18 ng	#	46
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	136068	56.20 ng	#	59
22) 1-Methoxy-2-propanol; ...	7.161	45	181062	22.33 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	11.246	43	144952	16.15 ng	#	47
25) Propylene glycol; 57-55-6	11.246	45	719323	117.58 ng	#	72
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.390	43	160317	29.55 ng	#	25
34) Ethanol; 64-17-5	0.000		0	N.D.		
35) 2-Propanone(acetone); ...	2.390	43	160317	28.09 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_22.D
Acq On : 2 Sep 2016 12:13 pm
Operator : rgill
Sample : US EPA_061-036-14; Mi51151; 5.94L
Misc : C14-14; 111ngBFB;10:1 split
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 05 20:05:05 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1091593	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1091593	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1091593	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1091593	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1091593	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1091593	111.00 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.		
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	16.791	43	243412	157.78 ng	#	16
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	130888	53.19 ng	#	62
22) 1-Methoxy-2-propanol; ...	7.175	45	108583	13.18 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	0.000		0	N.D.		
25) Propylene glycol; 57-55-6	11.246	45	307560	49.46 ng	#	38
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.394	43	148612	26.95 ng	#	25
34) Ethanol; 64-17-5	0.000		0	N.D.		
35) 2-Propanone(acetone); ...	2.394	43	148612	25.62 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_23.D
Acq On : 2 Sep 2016 1:06 pm
Operator : rgill
Sample : US EPA_061-036-15; 203165; 7.19L
Misc : C14-15; 111ngBFB;10:1 split
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 05 20:04:45 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1066926	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1066926	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1066926	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1066926	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1066926	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1066926	111.00 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	9.702	91	110203	6.67 ng	#	18
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	16.791	43	391525	259.66 ng	#	16
13) Phenol; 108-95-2	18.481	94	104016	10.87 ng	#	46
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.943	113	226473	94.16 ng		88
22) 1-Methoxy-2-propanol; ...	7.161	45	233321	28.97 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	0.000		0	N.D.		
25) Propylene glycol; 57-55-6	11.246	45	356807	58.71 ng	#	38
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.395	43	293996	54.55 ng	#	25
34) Ethanol; 64-17-5	2.103	31	169574	55.39 ng	#	87
35) 2-Propanone(acetone); ...	2.395	43	293996	51.86 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_24.D
Acq On : 2 Sep 2016 2:01 pm
Operator : rgill
Sample : US EPA_061-036-16; 203151; 6.92L
Misc : C14-16; 111ngBFB;10:1 split
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 05 20:04:24 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082:
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1107414	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1107414	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1107414	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1107414	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1107414	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1107414	111.00 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	9.702	91	109815	6.40 ng	#	18
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	16.791	43	168394	107.60 ng	#	16
13) Phenol; 108-95-2	18.485	94	130844	13.18 ng	#	46
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	125615	50.32 ng	#	60
22) 1-Methoxy-2-propanol; ...	7.166	45	117753	14.09 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	11.241	43	122112	13.19 ng	#	47
25) Propylene glycol; 57-55-6	11.246	45	599013	94.96 ng	#	73
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.390	43	161385	28.85 ng	#	25
34) Ethanol; 64-17-5	0.000		0	N.D.		
35) 2-Propanone(acetone); ...	2.390	43	161385	27.43 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_25.D
Acq On : 2 Sep 2016 2:55 pm
Operator : rgill
Sample : US EPA_061-036-17; 203139; 5.22L
Misc : C14-17; 111ngBFB;10:1 split
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 05 20:04:09 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1135610	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1135610	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1135610	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1135610	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1135610	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1135610	111.00 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.		
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.943	113	64710m	25.28 ng		
22) 1-Methoxy-2-propanol; ...	7.190	45	122664	14.31 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	0.000		0	N.D.		
25) Propylene glycol; 57-55-6	11.246	45	303661	46.94 ng	#	38
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.395	43	211065	36.79 ng	#	25
34) Ethanol; 64-17-5	2.107	31	181595	55.73 ng	#	84
35) 2-Propanone(acetone); ...	2.395	43	211065	34.98 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_26.D
Acq On : 2 Sep 2016 3:49 pm
Operator : rgill
Sample : US EPA_061-036-18; 242469; 5.43L
Misc : C14-18; 111ngBFB;10:1 split
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 05 20:03:47 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.226	95	1132446	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.226	95	1132446	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.226	95	1132446	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.226	95	1132446	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.226	95	1132446	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.226	95	1132446	111.00 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	9.707	91	214709	12.24 ng		94
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.		
8) Xylene {1}; 1330-20-7	0.000		0	N.D.		
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	58040m	22.73 ng		
22) 1-Methoxy-2-propanol; ...	7.181	45	148190	17.34 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	0.000		0	N.D.		
25) Propylene glycol; 57-55-6	11.241	45	295749	45.85 ng	#	38
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	0.000		0	N.D.		
34) Ethanol; 64-17-5	0.000		0	N.D.		
35) 2-Propanone(acetone); ...	0.000		0	N.D.		
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_27.D
Acq On : 2 Sep 2016 4:43 pm
Operator : rgill
Sample : US EPA_061-036-19; Mi58838; 6.08L
Misc : C14-19; 111ngBFB;10:1 split
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 05 20:03:04 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1-Bromo-4-flourobenzen...	14.225	95	1173825	111.00 ng		0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1173825	111.00 ng		0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1173825	111.00 ng	#	0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1173825	111.00 ng	#	0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1173825	111.00 ng	#	0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1173825	111.00 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	9.703	91	343960	18.91 ng		93
5) Tetrachloroethene; 127...	0.000		0	N.D.		
6) N,N-Dimethylformamide;...	0.000		0	N.D.		
7) Ethylbenzene; 100-41-4	12.487	91	116036	5.47 ng	#	40
8) Xylene {1}; 1330-20-7	12.487	91	116036	6.97 ng	#	29
9) Xylene {2}; 1330-20-7	0.000		0	N.D.		
10) Styrene; 100-42-5	0.000		0	N.D.		
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.		
12) Octanal; 124-13-0	0.000		0	N.D.		
13) Phenol; 108-95-2	0.000		0	N.D.		
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.		
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.		
16) Nonanal; 124-19-6	0.000		0	N.D.		
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.		
18) Naphthalene; 91-20-3	0.000		0	N.D.		
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.		
20) Caprolactam; 105-60-2	23.938	113	77914m	29.44 ng		
22) 1-Methoxy-2-propanol; ...	7.404	45	164441	18.56 ng	#	48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.		
24) Butyl acetate; 123-86-4	11.241	43	101737	10.37 ng	#	47
25) Propylene glycol; 57-55-6	11.241	45	493032	73.74 ng	#	73
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.		
27) Hexanoic acid; 142-62-1	0.000		0	N.D.		
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.		
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.		
30) Dodecanol; 112-53-8	0.000		0	N.D.		
31) Butylated hydroxytolue...	0.000		0	N.D.		
33) n-Pentane; 109-66-0	2.395	43	204694	34.52 ng	#	25
34) Ethanol; 64-17-5	2.107	31	125920	37.39 ng	#	29
35) 2-Propanone(acetone); ...	2.395	43	204694	32.82 ng	#	48
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.		
37) 2-Propanol; 67-63-0	0.000		0	N.D.		
38) Carbon disulfide; 75-15-0	0.000		0	N.D.		
39) Dichloromethane; 75-09-2	2.799	49	290682	57.47 ng	#	46
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.		
43) Ethyl acetate; 141-78-6	0.000		0	N.D.		
44) Chloroform;67-66-3	0.000		0	N.D.		

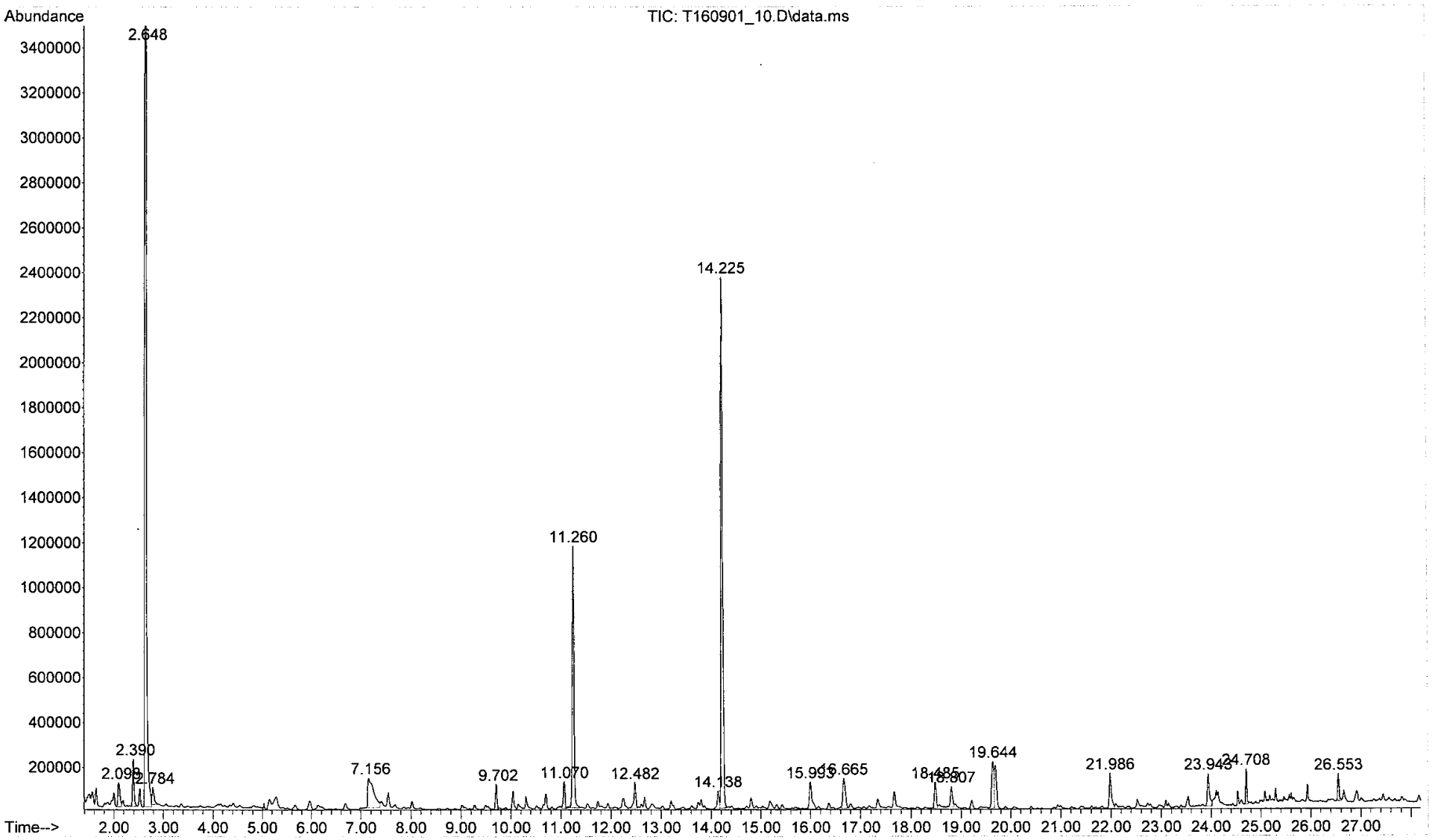
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2016\Sept\
Data File : T160901_28.D
Acq On : 2 Sep 2016 5:36 pm
Operator : rgill
Sample : US EPA_061-036-20; 242413 5.91L
Misc : C14-20; 111ngBFB;10:1 split
ALS Vial : 28 Sample Multiplier: 1

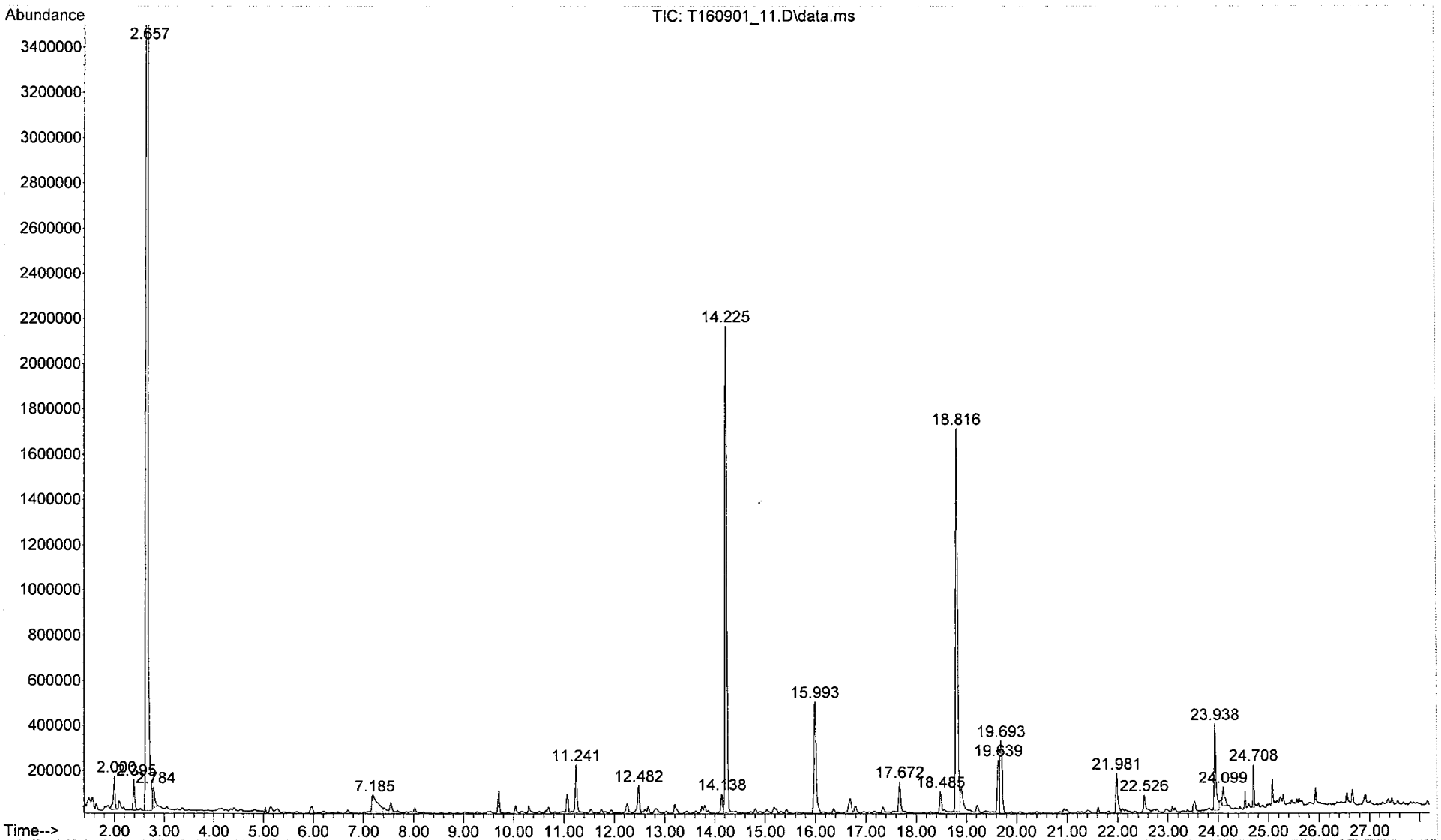
Quant Time: Sep 05 20:02:39 2016
Quant Method : \\Ba-fs1\RESOURCES\GCMSFILE\METHODS\5975 Methods\Y2K16\Desorb_Merged_2016_082
Quant Title : AB95168
QLast Update : Thu Mar 31 15:13:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Bromo-4-flourobenzen...	14.225	95	1153008	111.00 ng	0.00
21) 1-Bromo-4-flourobenzen...	14.225	95	1153008	111.00 ng	0.00
32) 1-Bromo-4-flourobenzen...	14.225	95	1153008	111.00 ng	# 0.00
52) 1-Bromo-4-flourobenzen...	14.225	95	1153008	111.00 ng	# 0.00
66) 1-Bromo-4-flourobenzen...	14.225	95	1153008	111.00 ng	# 0.00
97) 1-Bromo-4-flourobenzen...	14.225	95	1153008	111.00 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.	
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.	
8) Xylene {1}; 1330-20-7	0.000		0	N.D.	
9) Xylene {2}; 1330-20-7	0.000		0	N.D.	
10) Styrene; 100-42-5	0.000		0	N.D.	
11) 1,2,4-Trimethylbenzene...	0.000		0	N.D.	
12) Octanal; 124-13-0	0.000		0	N.D.	
13) Phenol; 108-95-2	0.000		0	N.D.	
14) 1-Phenylethanone; 98-86-2	0.000		0	N.D.	
15) 1-Methyl-2-pyrrolidino...	0.000		0	N.D.	
16) Nonanal; 124-19-6	0.000		0	N.D.	
17) 2-Ethylhexanoic acid; ...	0.000		0	N.D.	
18) Naphthalene; 91-20-3	0.000		0	N.D.	
19) 4-Phenylcyclohexene; 4...	0.000		0	N.D.	
20) Caprolactam; 105-60-2	23.938	113	61616m	23.70 ng	
22) 1-Methoxy-2-propanol; ...	7.180	45	136535	15.69 ng	# 48
23) Ethylene glycol; 107-21-1	0.000		0	N.D.	
24) Butyl acetate; 123-86-4	0.000		0	N.D.	
25) Propylene glycol; 57-55-6	11.246	45	250913	38.20 ng	# 38
26) 2-Butoxyethanol; 111-76-2	0.000		0	N.D.	
27) Hexanoic acid; 142-62-1	0.000		0	N.D.	
28) 2-Ethyl-1-hexanol; 104...	0.000		0	N.D.	
29) 2-(2-Butoxyethoxy) eth...	0.000		0	N.D.	
30) Dodecanol; 112-53-8	0.000		0	N.D.	
31) Butylated hydroxytolue...	0.000		0	N.D.	
33) n-Pentane; 109-66-0	0.000		0	N.D.	
34) Ethanol; 64-17-5	0.000		0	N.D.	
35) 2-Propanone(acetone); ...	0.000		0	N.D.	
36) 1,1-Dichloroethylene;7...	0.000		0	N.D.	
37) 2-Propanol; 67-63-0	0.000		0	N.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.	
43) Ethyl acetate; 141-78-6	0.000		0	N.D.	
44) Chloroform;67-66-3	0.000		0	N.D.	

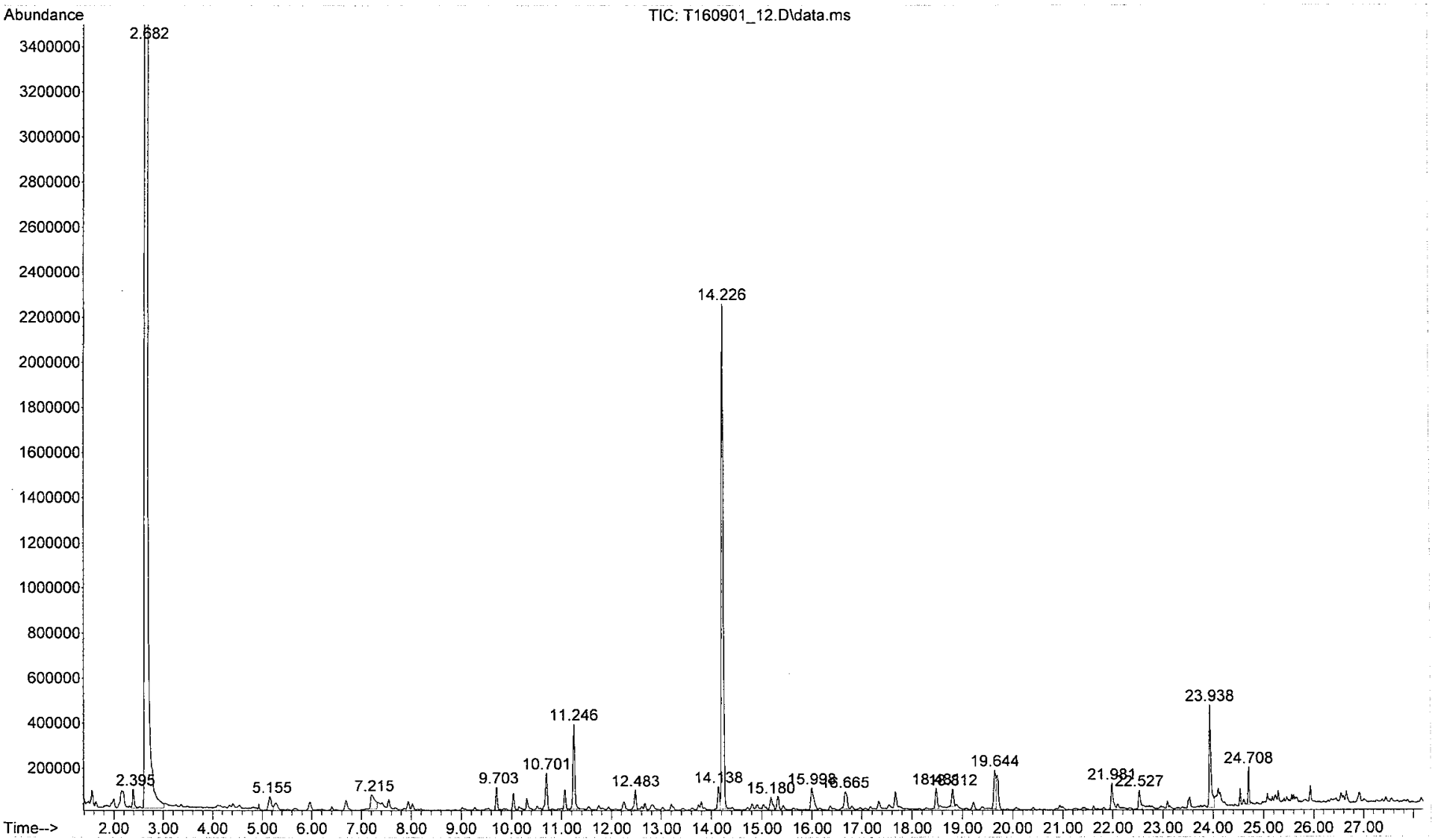
File :C:\msdchem\1\data\2016\Sept\T160901_10.D
Operator : rgill
Acquired : 2 Sep 2016 1:14 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-02; Mi51173; 5.58L
Misc Info : C14-02; 111ngBFB;10:1 split
Vial Number: 10



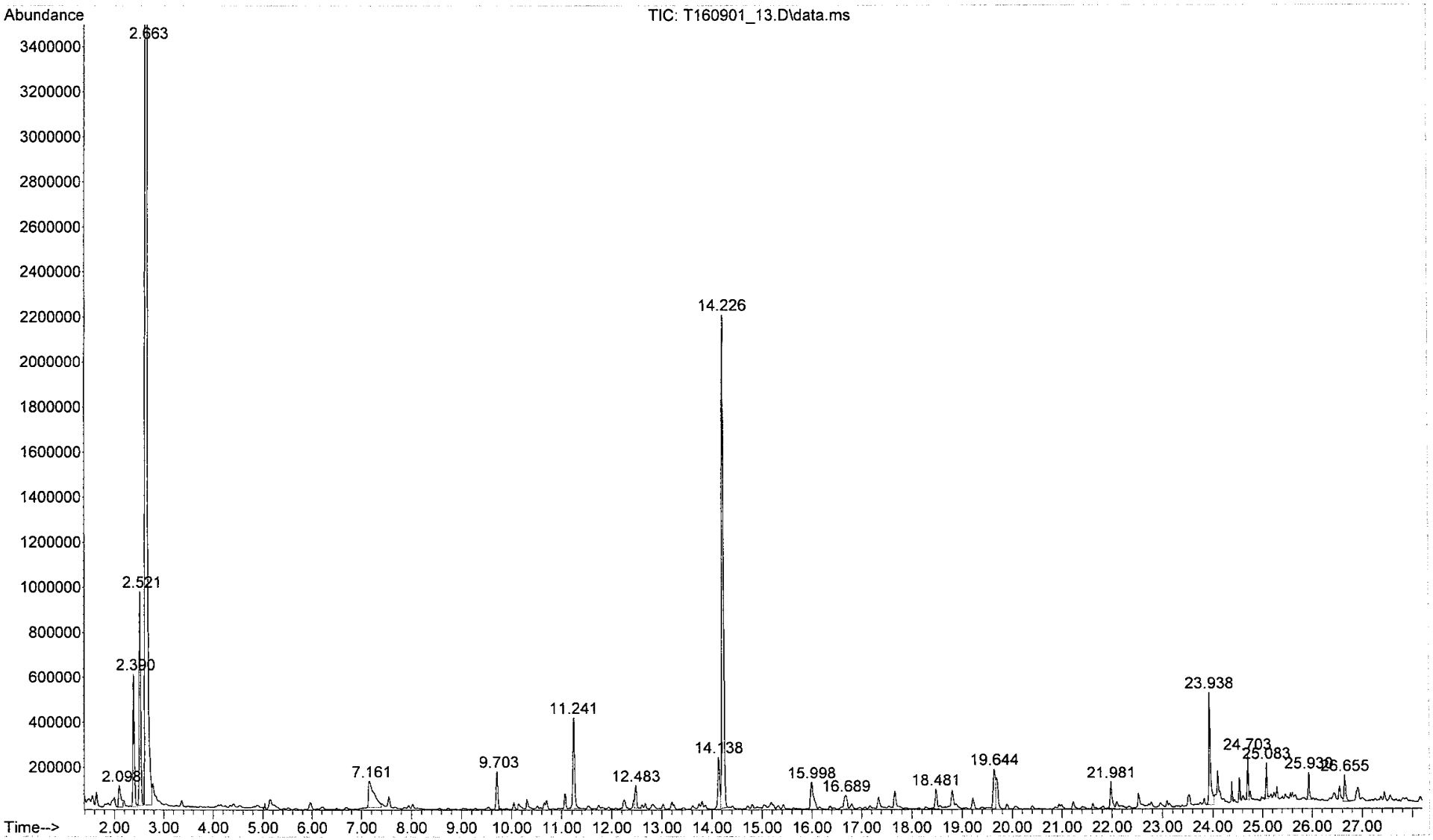
File :C:\msdchem\1\data\2016\Sept\T160901_11.D
Operator : rgill
Acquired : 2 Sep 2016 2:10 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-03; 203157; 5.98L
Misc Info : C14-03; 111ngBFB;10:1 split
Vial Number: 11



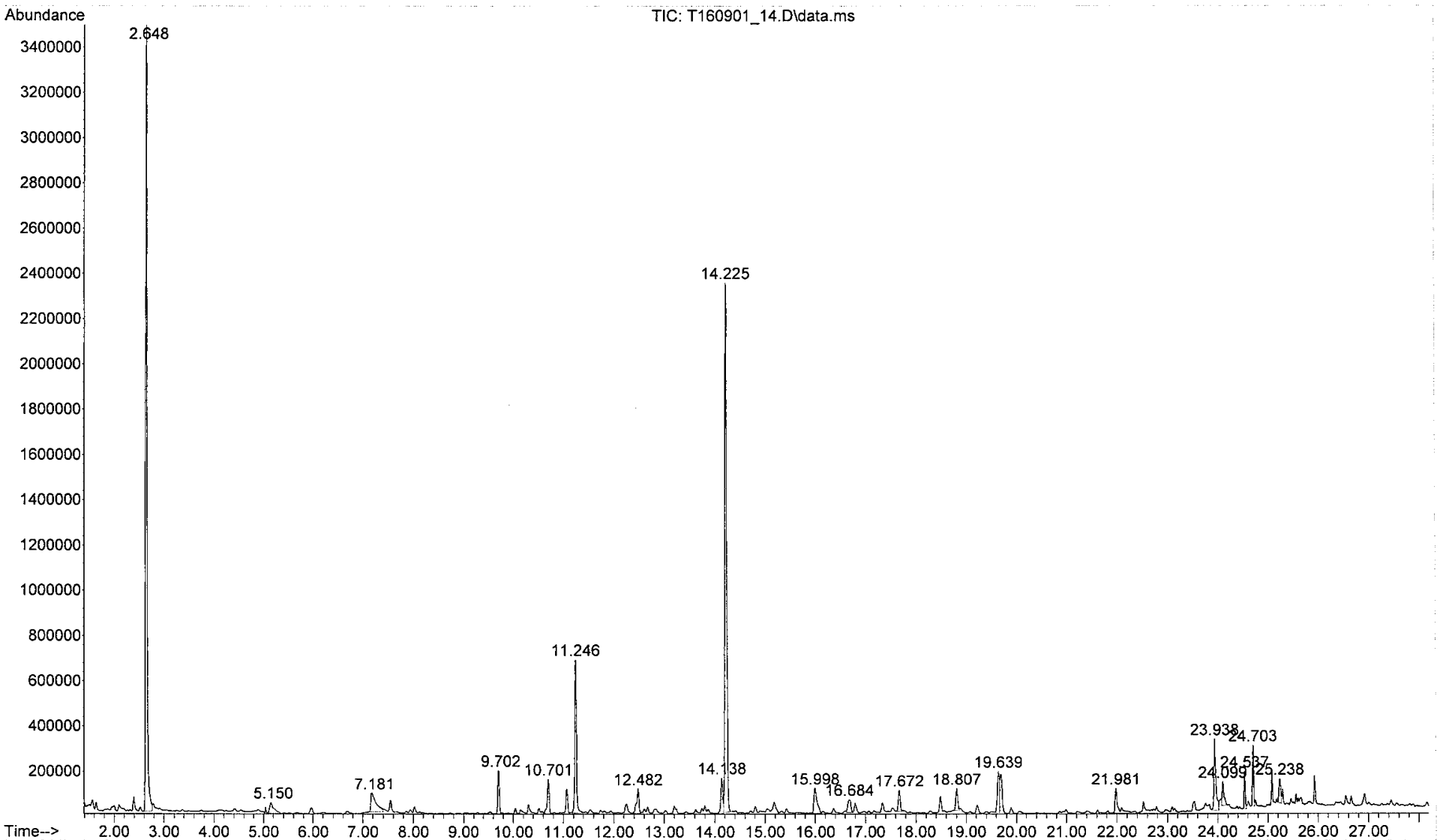
File :C:\msdchem\1\data\2016\Sept\T160901_12.D
Operator : rgill
Acquired : 2 Sep 2016 3:06 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-04; 242486; 6.36L
Misc Info : C14-04; 111ngBFB;10:1 split
Vial Number: 12



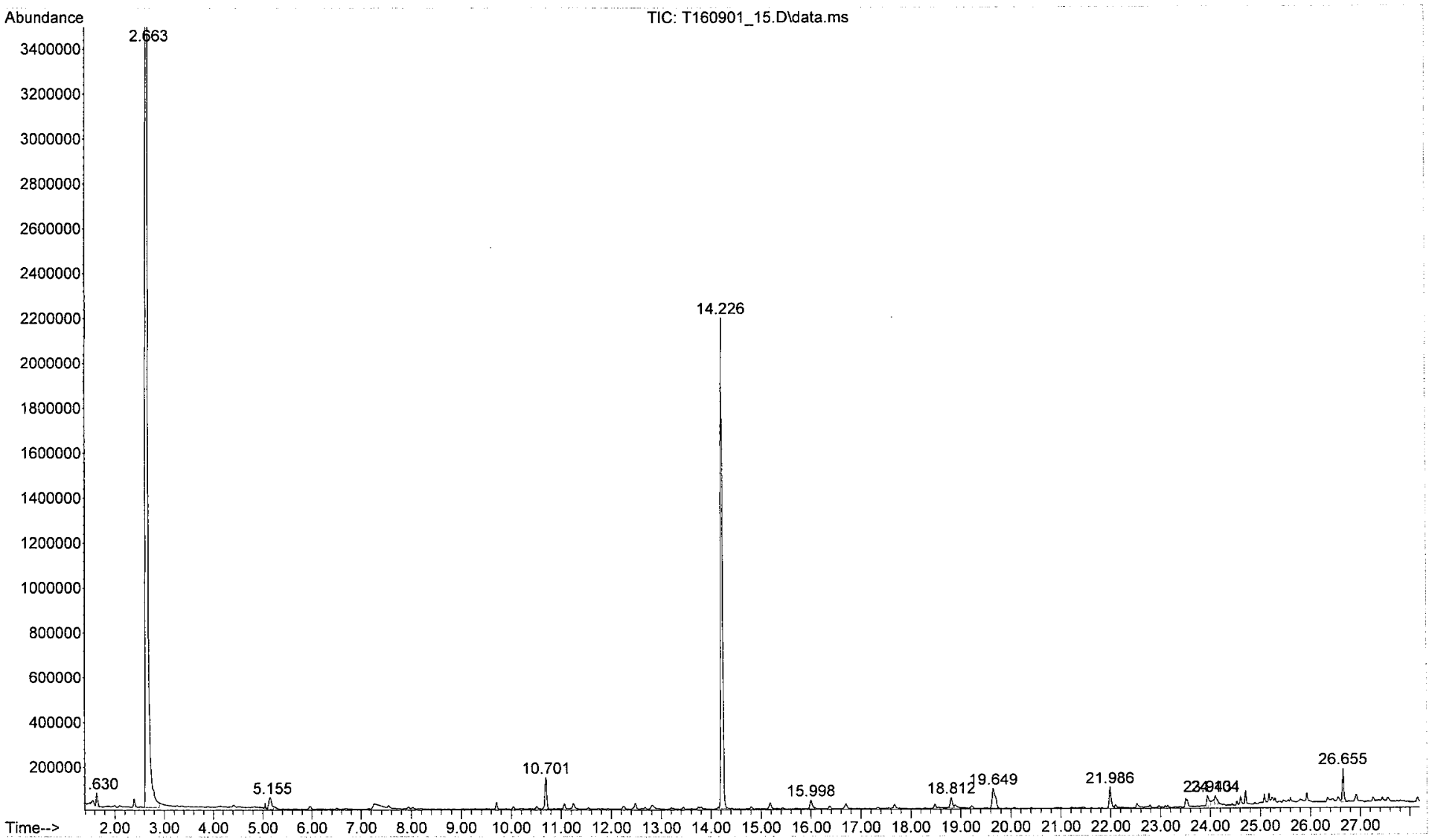
File :C:\msdchem\1\data\2016\Sept\T160901_13.D
Operator : rgill
Acquired : 2 Sep 2016 4:01 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-05; Mi51139; 6.16L
Misc Info : C14-05; 111ngBFB;10:1 split
Vial Number: 13



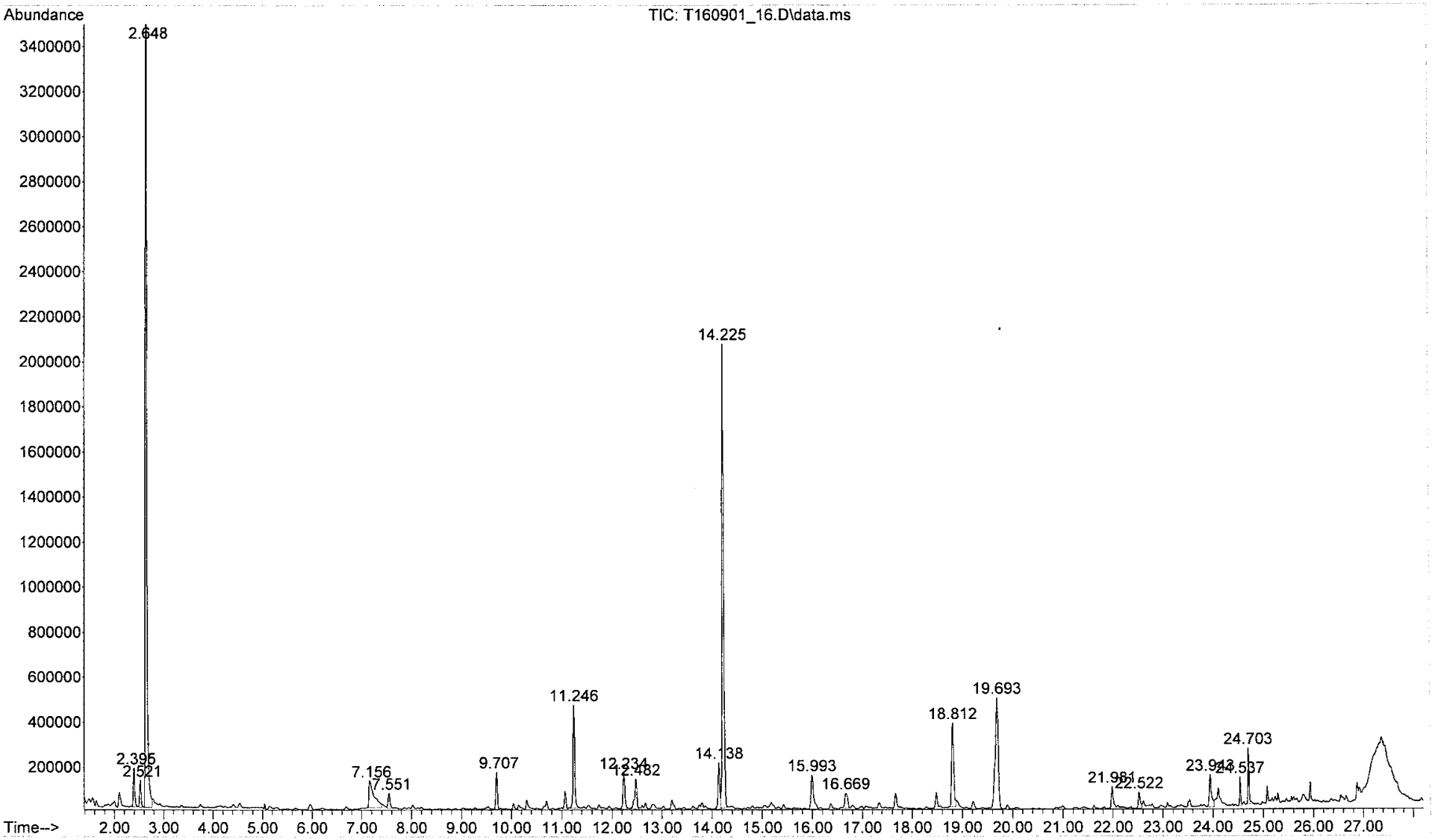
File :C:\msdchem\1\data\2016\Sept\T160901_14.D
Operator : rgill
Acquired : 2 Sep 2016 4:56 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-06; 242448; 6.29L
Misc Info : C14-06; 111ngBFB;10:1 split
Vial Number: 14



File :C:\msdchem\1\data\2016\Sept\T160901_15.D
Operator : rgill
Acquired : 2 Sep 2016 5:52 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-07; 242412; 6.14L
Misc Info : C14-07; 111ngBFB;10:1 split
Vial Number: 15



File :C:\msdchem\1\data\2016\Sept\T160901_16.D
Operator : rgill
Acquired : 2 Sep 2016 6:47 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-08; 203173; 5.96L
Misc Info : C14-08; 111ngBFB;10:1 split
Vial Number: 16



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File        :C:\msdchem\1\data\2016\Sept\T160901_17.D
Operator    : rgill
Acquired    :  2 Sep 2016   7:43 am using AcqMethod 130812VOC.M
Instrument  :   GCMS_7890
Sample Name: US EPA_061-036-09; Mi51180; 6.39L
Misc Info   : C14-09; 111ngBFB;10:1 split
Vial Number: 17
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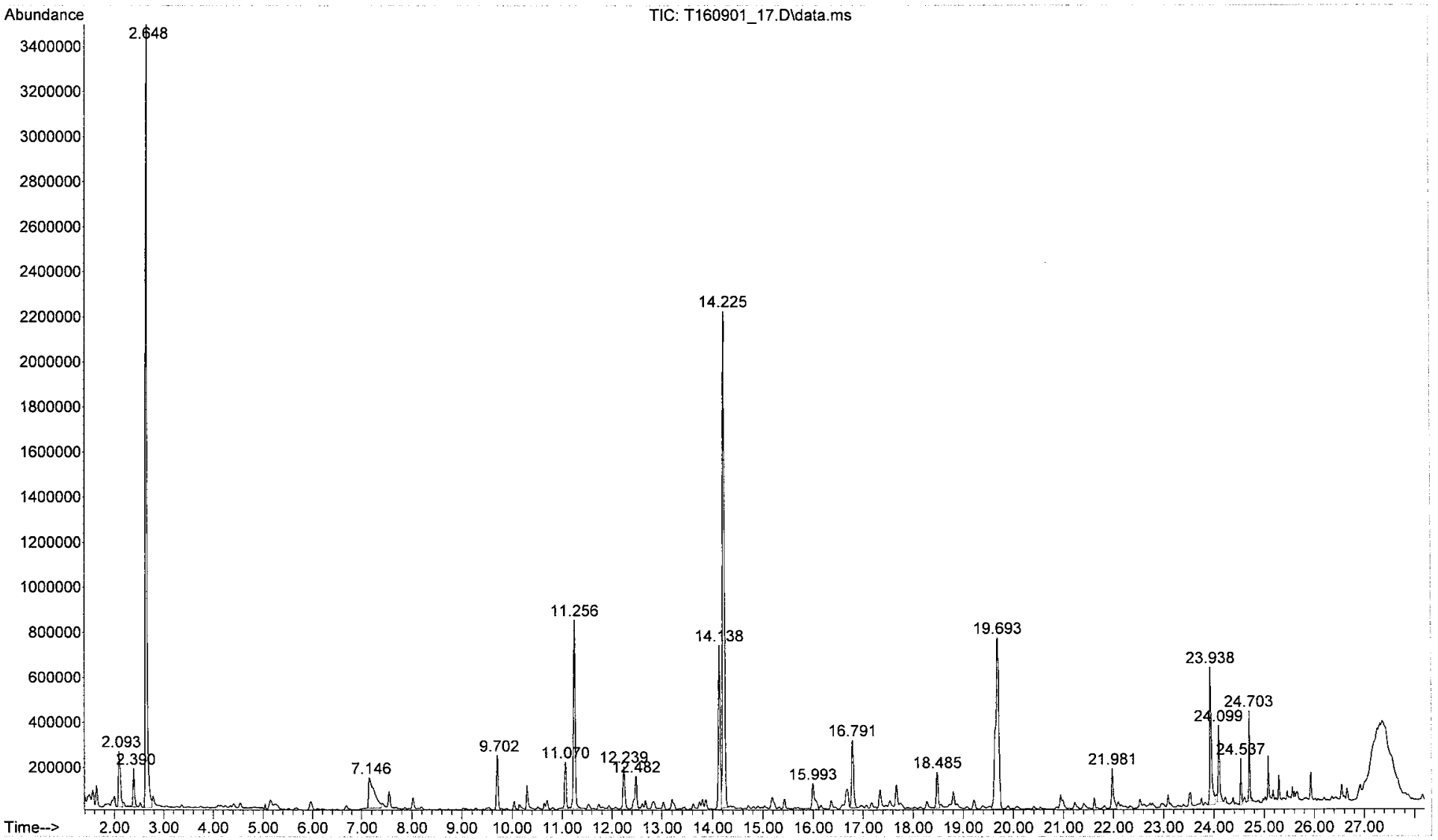
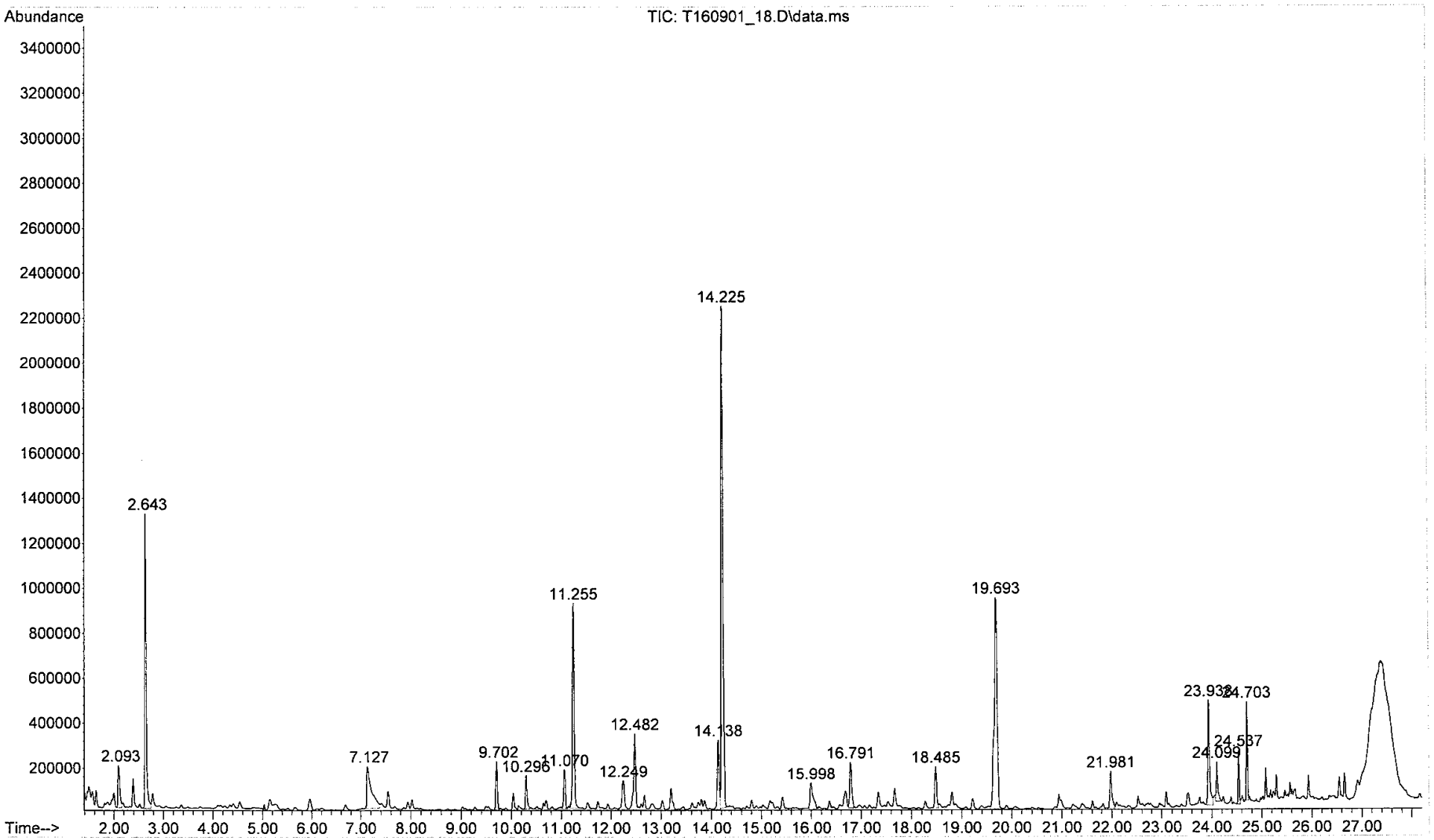
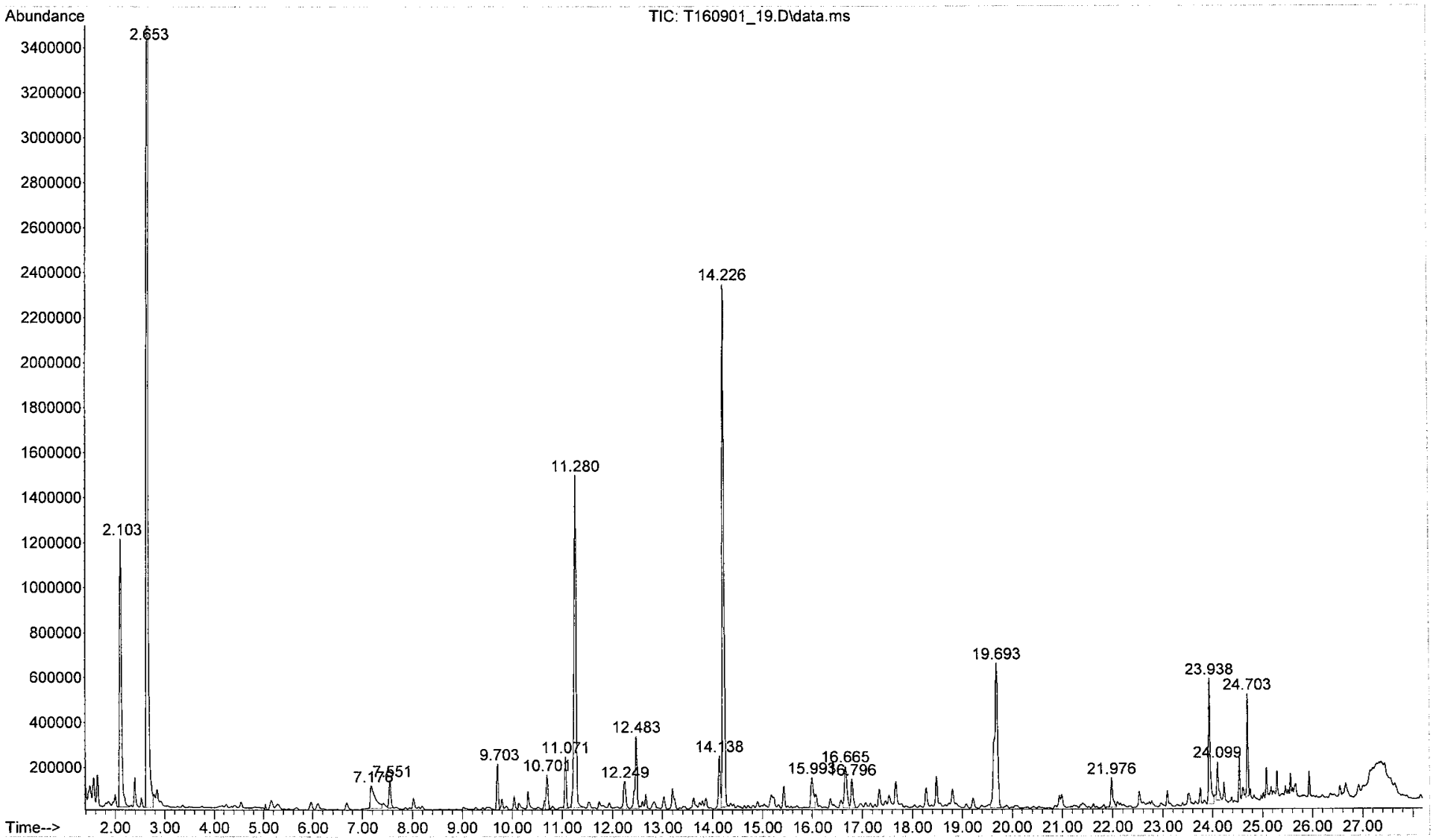


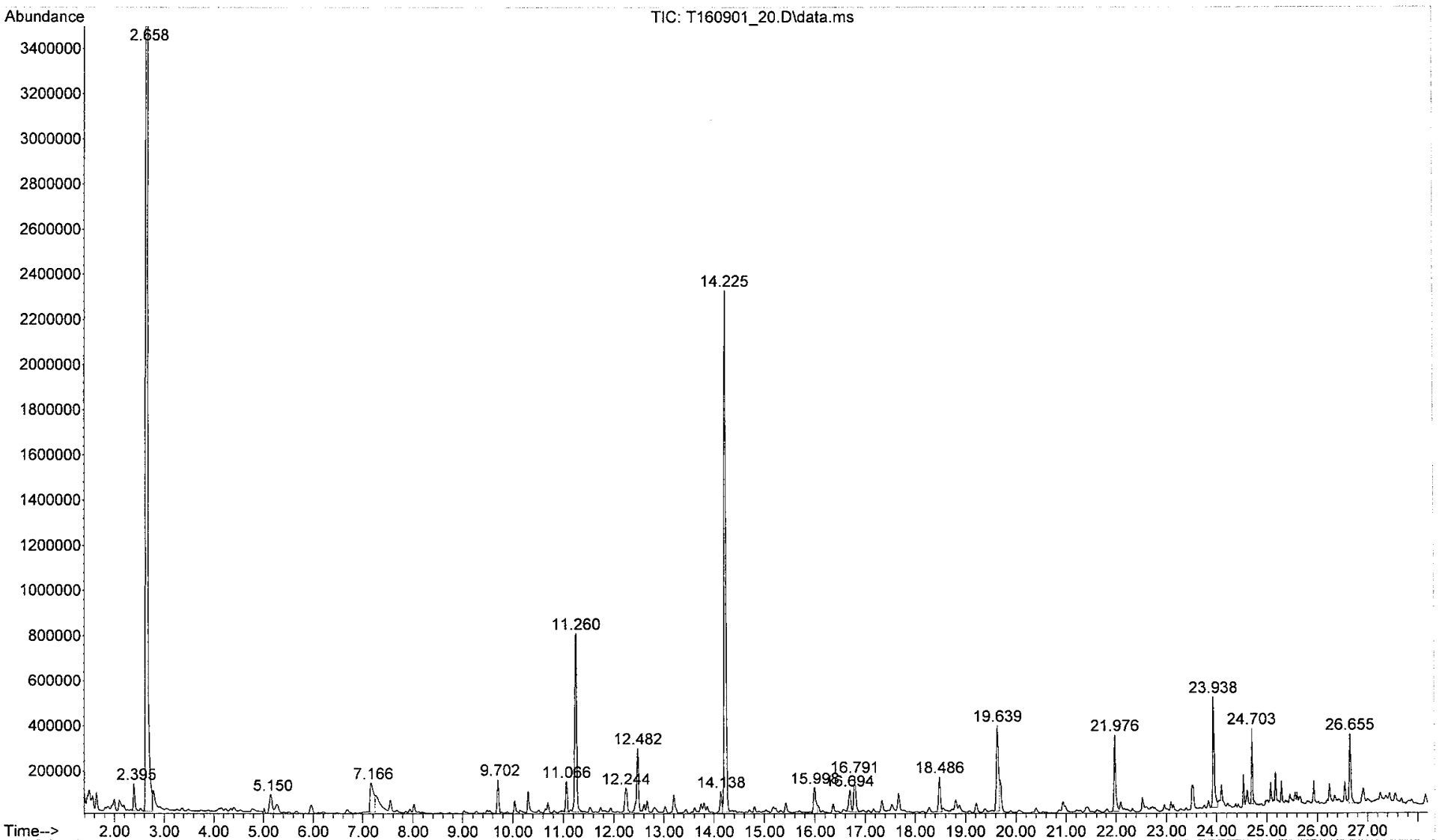
File :C:\msdchem\1\data\2016\Sept\T160901_18.D
Operator : rgill
Acquired : 2 Sep 2016 8:38 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-10; Mi51154; 7.49L
Misc Info : C14-10; 111ngBFB;10:1 split
Vial Number: 18



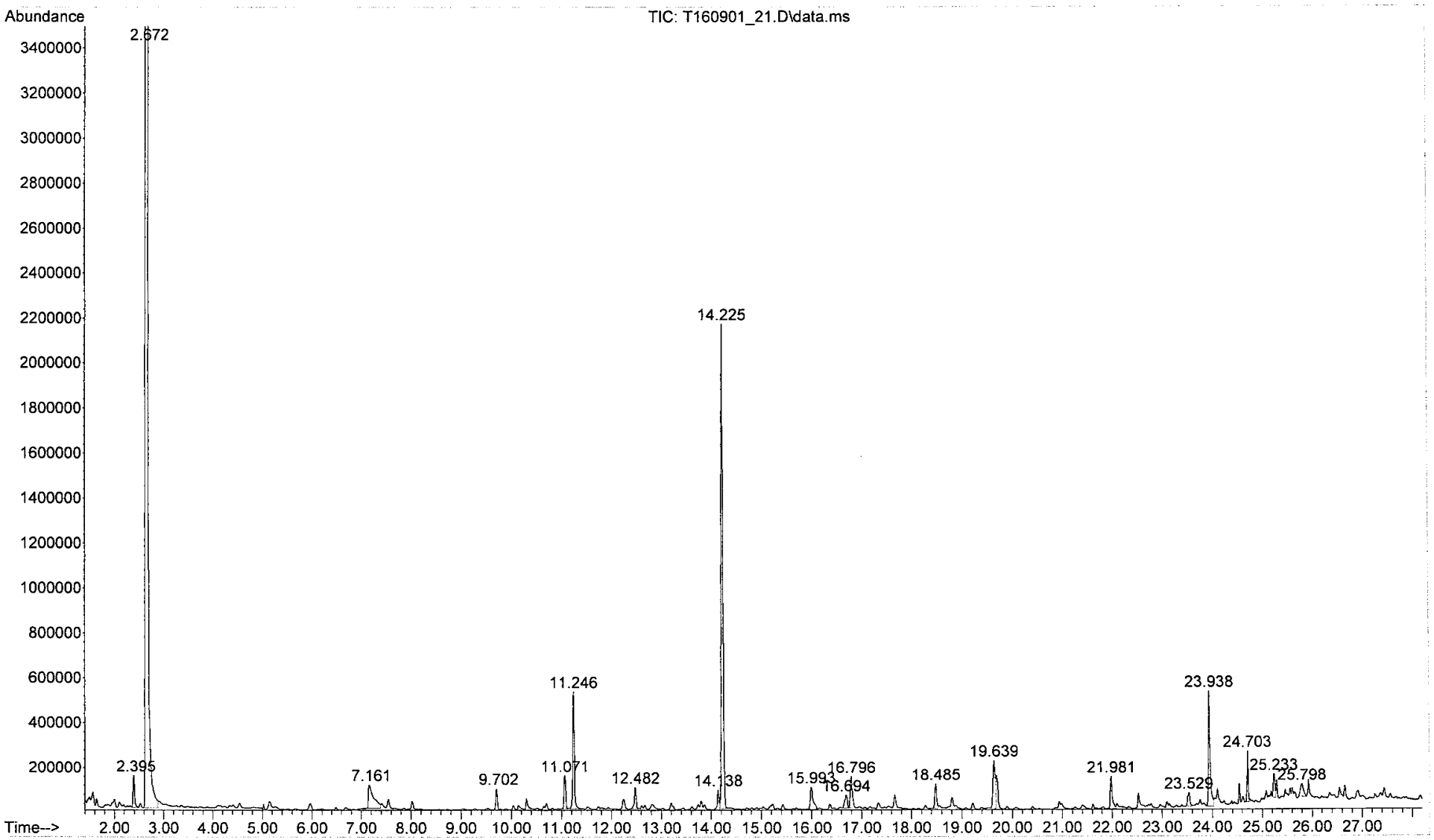
File :C:\msdchem\1\data\2016\Sept\T160901_19.D
Operator : rgill
Acquired : 2 Sep 2016 9:33 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-11; 242405; 6.96L
Misc Info : C14-11; 111ngBFB;10:1 split
Vial Number: 19



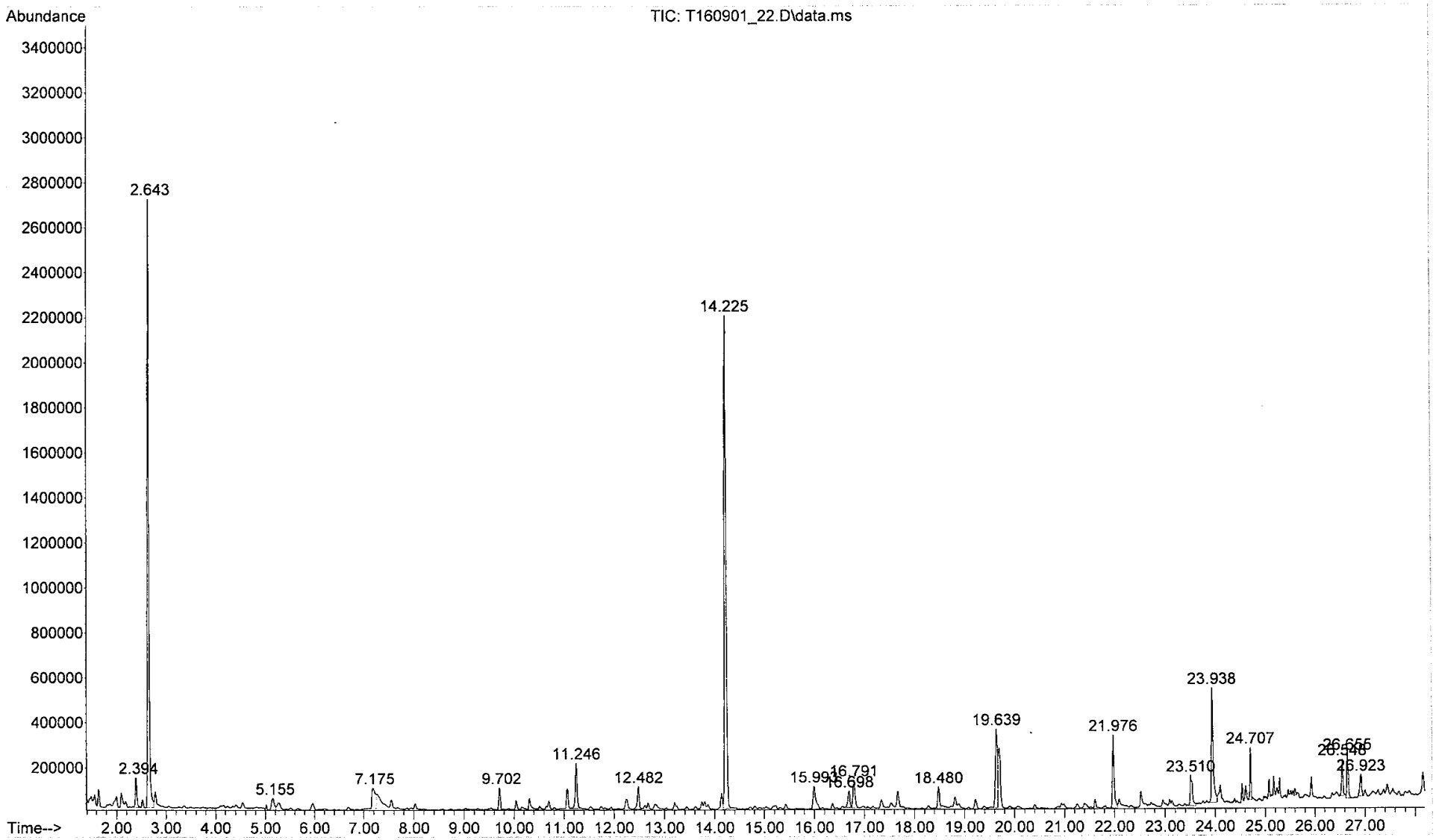
File :C:\msdchem\1\data\2016\Sept\T160901_20.D
Operator : rgill
Acquired : 2 Sep 2016 10:26 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-12; Mi51160; 5.25L
Misc Info : C14-12; 111ngBFB;10:1 split
Vial Number: 20



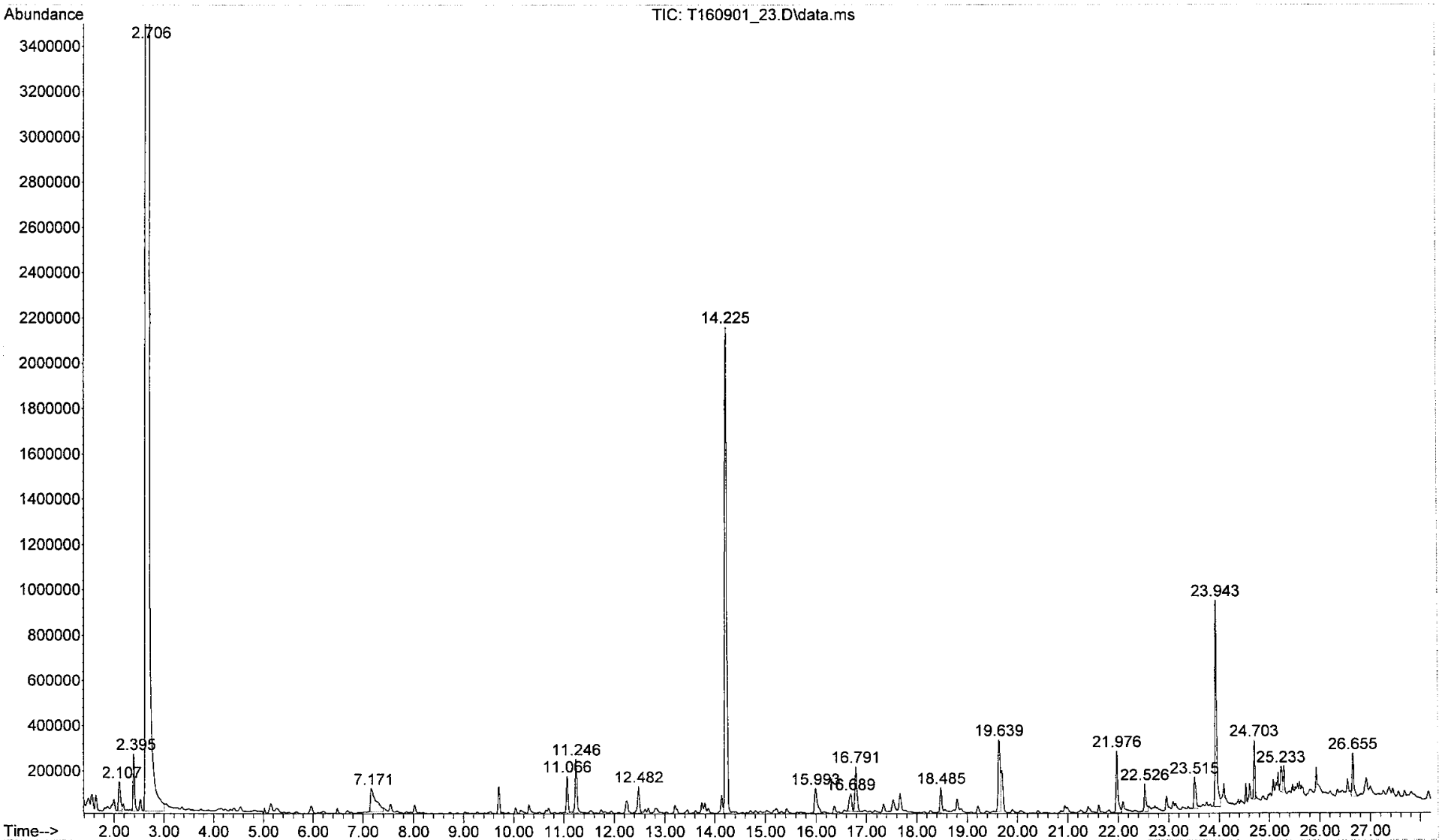
File :C:\msdchem\1\data\2016\Sept\T160901_21.D
Operator : rgill
Acquired : 2 Sep 2016 11:20 am using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-13; 203175; 5.57L
Misc Info : C14-13; 111ngBFB;10:1 split
Vial Number: 21



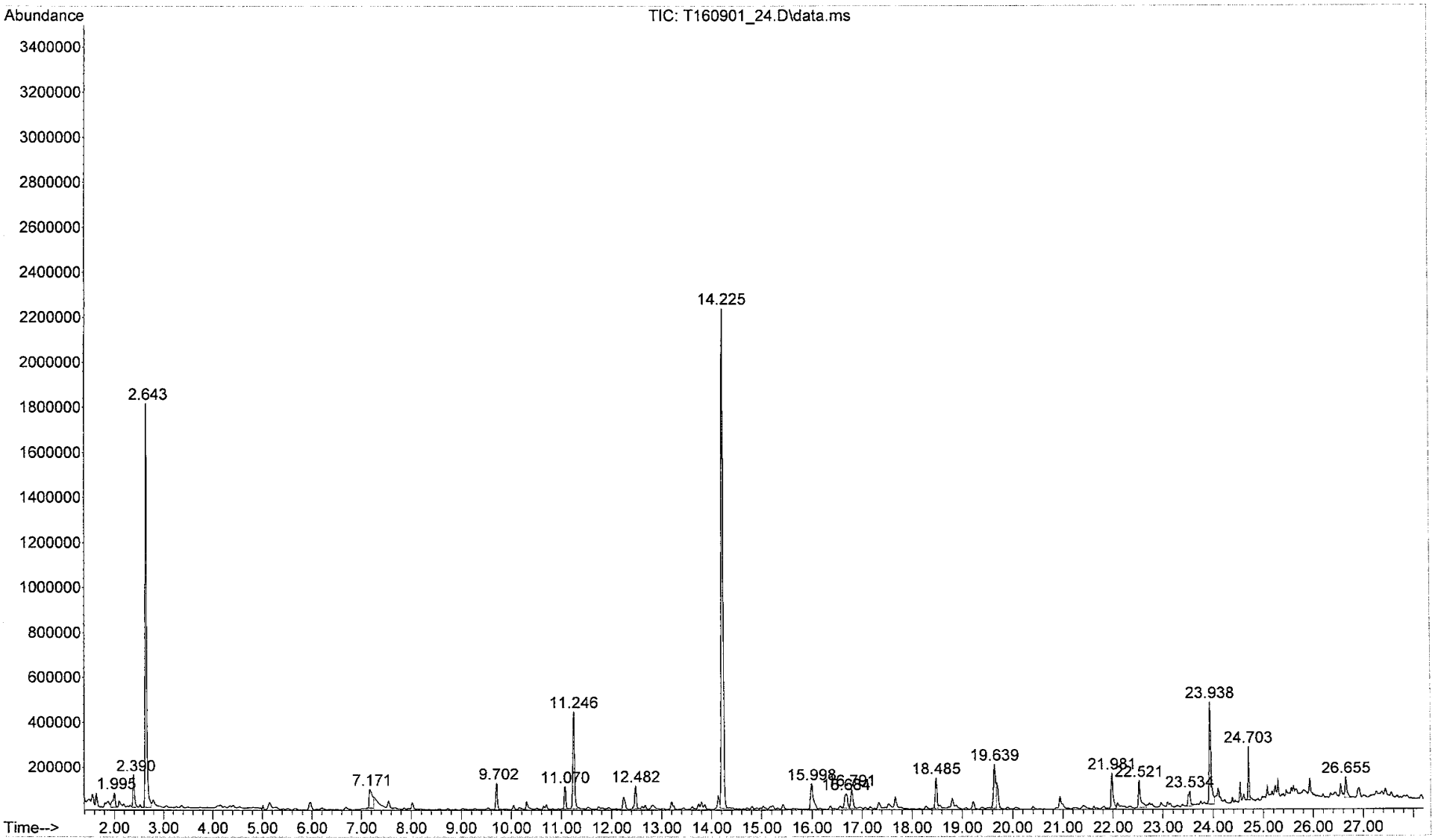
File :C:\msdchem\1\data\2016\Sept\T160901_22.D
Operator : rgill
Acquired : 2 Sep 2016 12:13 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-14; Mi51151; 5.94L
Misc Info : C14-14; 111ngBFB;10:1 split
Vial Number: 22



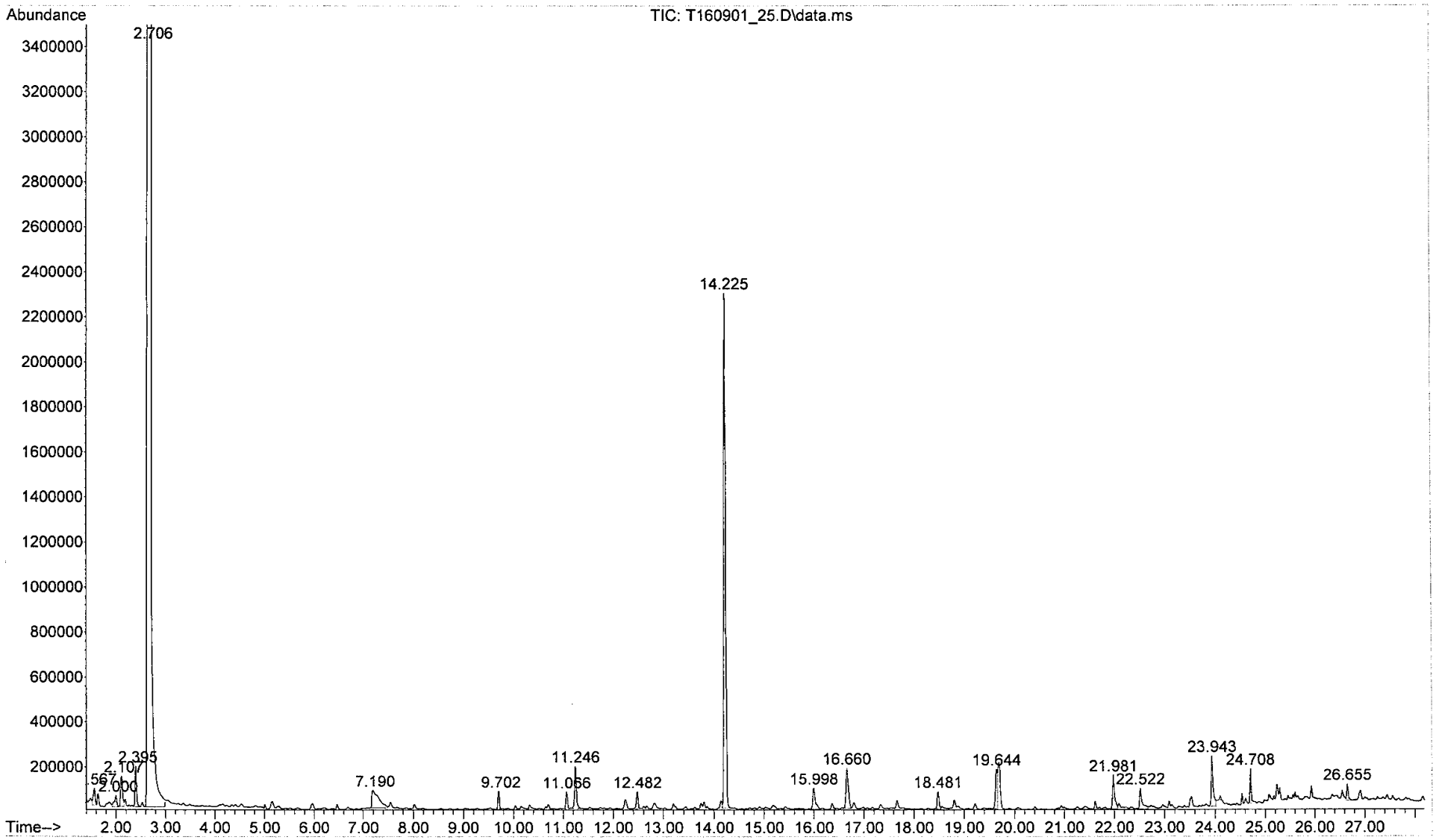
File :C:\msdchem\1\data\2016\Sept\T160901_23.D
Operator : rgill
Acquired : 2 Sep 2016 1:06 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-15; 203165; 7.19L
Misc Info : C14-15; 111ngBFB;10:1 split
Vial Number: 23



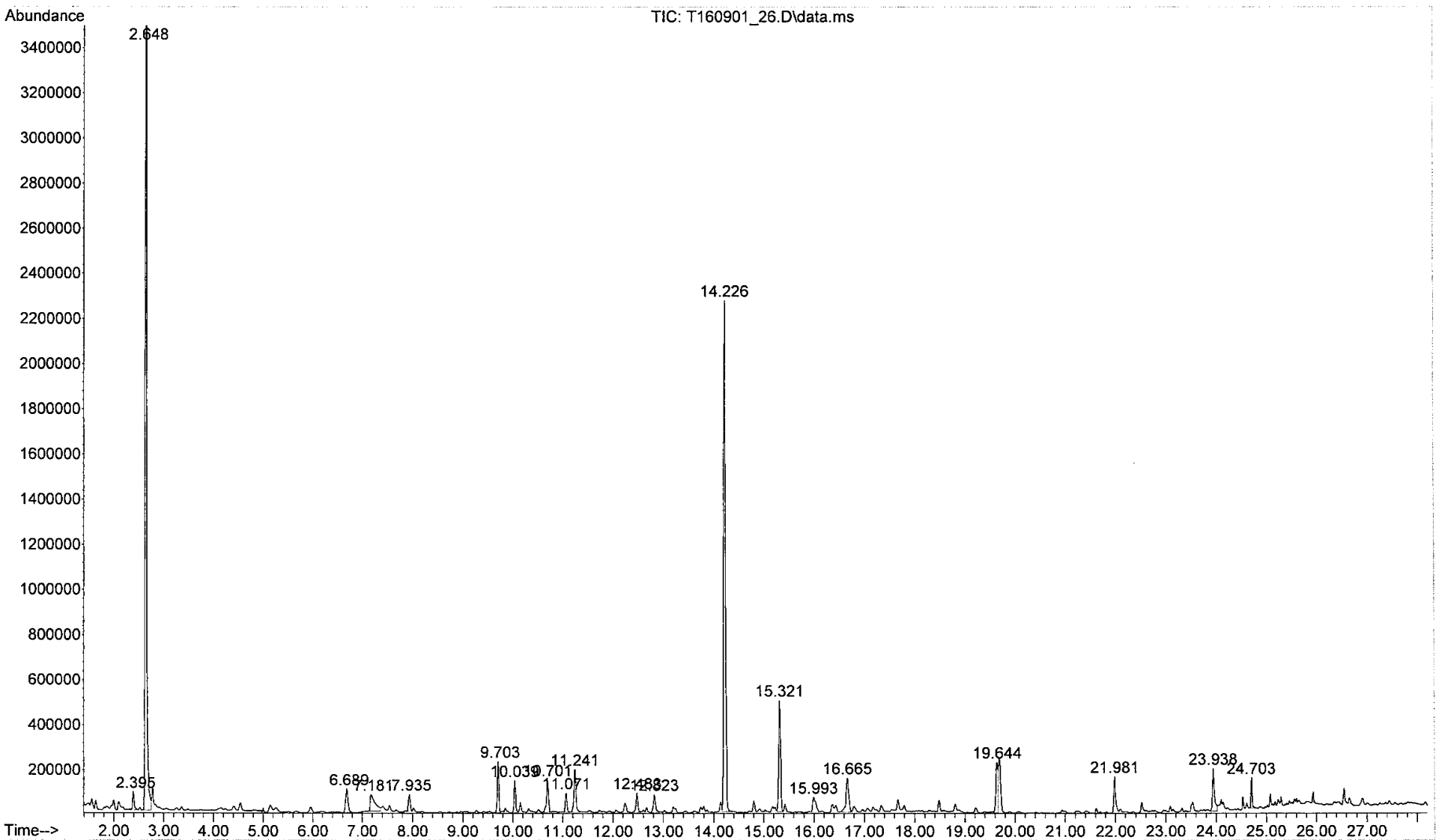
File :C:\msdchem\1\data\2016\Sept\T160901_24.D
Operator : rgill
Acquired : 2 Sep 2016 2:01 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-16; 203151; 6.92L
Misc Info : C14-16; 111ngBFB;10:1 split
Vial Number: 24



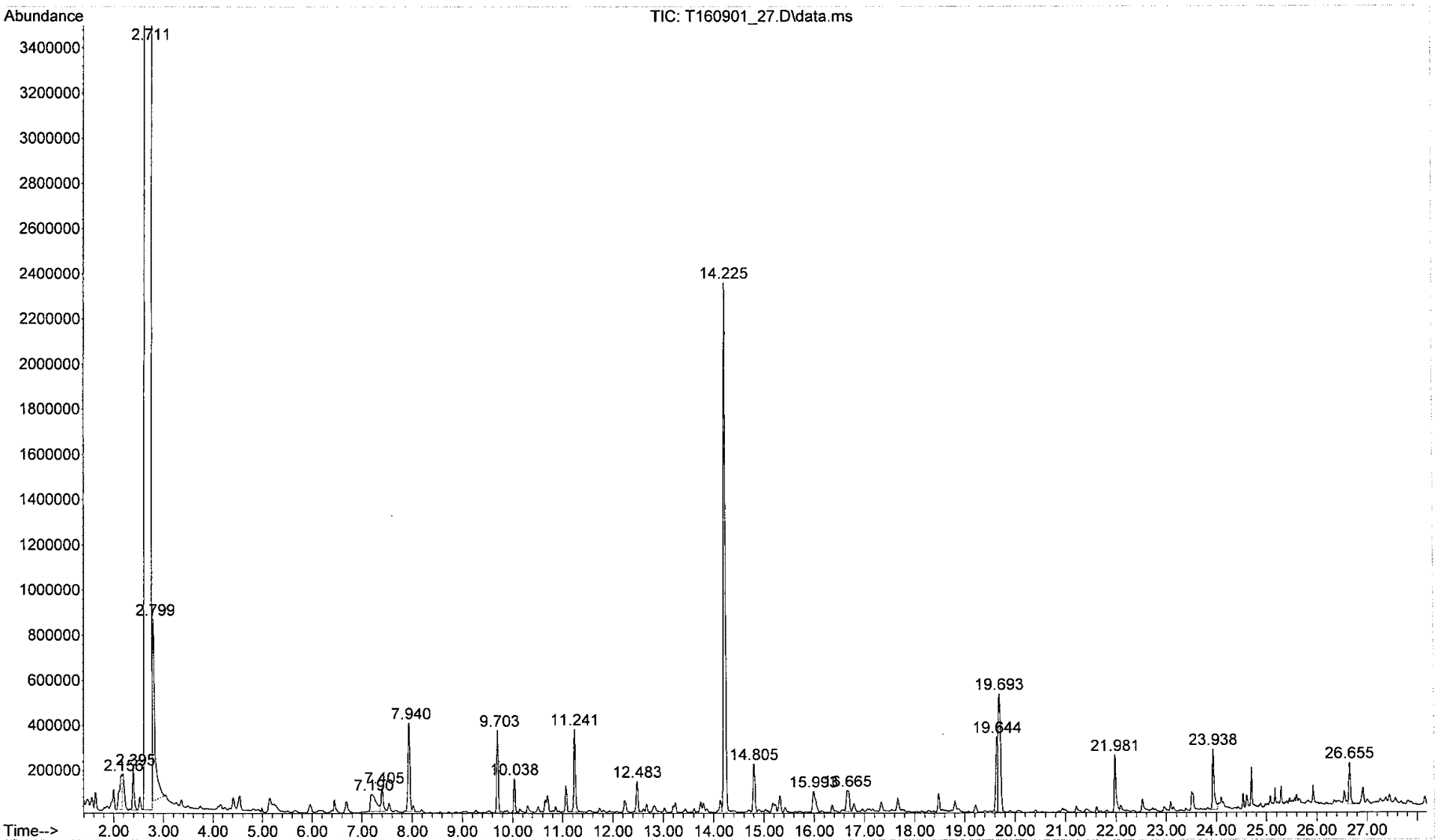
File :C:\msdchem\1\data\2016\Sept\T160901_25.D
Operator : rgill
Acquired : 2 Sep 2016 2:55 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-17; 203139; 5.22L
Misc Info : C14-17; 111ngBFB;10:1 split
Vial Number: 25



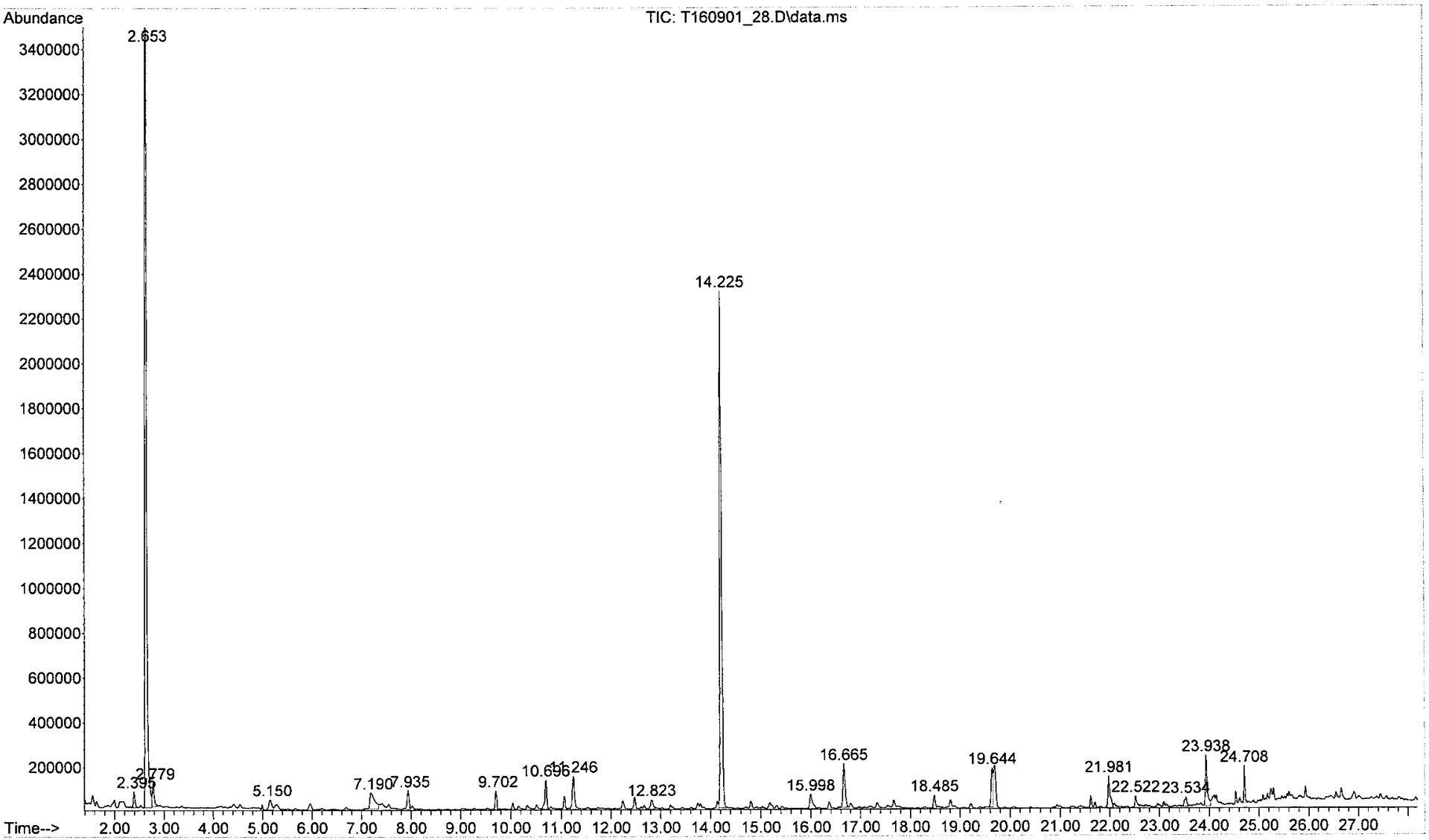
File :C:\msdchem\1\data\2016\Sept\T160901_26.D
Operator : rgill
Acquired : 2 Sep 2016 3:49 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-18; 242469; 5.43L
Misc Info : C14-18; 111ngBFB;10:1 split
Vial Number: 26



File :C:\msdchem\1\data\2016\Sept\T160901_27.D
Operator : rgill
Acquired : 2 Sep 2016 4:43 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-19; Mi58838; 6.08L
Misc Info : C14-19; 111ngBFB;10:1 split
Vial Number: 27



File :C:\msdchem\1\data\2016\Sept\T160901_28.D
Operator : rgill
Acquired : 2 Sep 2016 5:36 pm using AcqMethod 130812VOC.M
Instrument : GCMS_7890
Sample Name: US EPA_061-036-20; 242413 5.91L
Misc Info : C14-20; 111ngBFB;10:1 split
Vial Number: 28



061-036; 9/5/2016
Caprolactam calculations

		mass (ng)	vol (L)	conc (ug/m3)	conc (ppb)
061-036-01	T160901_09	21.6	5.690	3.8	0.8
061-036-02	T160901_10	15.7	5.580	2.8	0.6
061-036-03	T160901_11	42.3	5.980	7.1	1.5
061-036-04	T160901_12	46.6	6.360	7.3	1.6
061-036-05	T160901_13	50.4	6.160	8.2	1.8
061-036-06	T160901_14	33.0	6.290	5.3	1.1
061-036-07	T160901_15	6.2	6.140	1.0	0.2
061-036-08	T160901_16	19.0	5.960	3.2	0.7
061-036-09	T160901_17	63.6	6.390	10.0	2.2
061-036-10	T160901_18	48.4	7.490	6.5	1.4
061-036-11	T160901_19	56.3	6.960	8.1	1.7
061-036-12	T160901_20	48.5	5.250	9.2	2.0
061-036-13	T160901_21	56.2	5.570	10.1	2.2
061-036-14	T160901_22	53.2	5.940	9.0	1.9
061-036-15	T160901_23	94.2	7.190	13.1	2.8
061-036-16	T160901_24	50.3	6.920	7.3	1.6
061-036-17	T160901_25	25.3	5.220	4.8	1.0
061-036-18	T160901_26	22.7	5.430	4.2	0.9
061-036-19	T160901_27	29.4	6.080	4.8	1.0
061-036-20	T160901_28	23.7	5.910	4.0	0.9

HCHO\JC061-036_EPA.XLS
Created 9/5/16, rgill

US EPA
Formaldehyde Analysis
Sequence 160825; 160830
Method FORMALDEHYDE.M

40 Typical cartridge blank

File	Sample ID	Rt min	Meas Conc ng/ul	Meas Mass ng	Mass -Blnk ng	Volume L	Conc ng/L	Conc ppbv
160825\160825005.D	F14-01	5.272		386	346	53.83	6.4	5.2
160825\160825006.D	F14-02	5.273		469	429	54.38	7.9	6.4
160825\160825007.D	F14-03	5.275		408	368	54.67	6.7	5.5
160825\160825008.D	F14-04	5.276		396	356	60.32	5.9	4.8
160825\160825009.D	F14-05	5.275		503	463	61.08	7.6	6.2
160825\160825010.D	F14-06	5.274		767	727	57.71	12.6	10.3
160825\160825011.D	F14-07	5.272		405	365	58.98	6.2	5.0
160825\160825012.D	F14-08	5.275		610	570	59.51	9.6	7.8
160825\160825013.D	F14-09	5.275		760	362	60.89	5.9	4.8
160825\160825014.D	F14-10	5.275		761	721	70.15	10.3	8.4
160825\160825015.D	F14-11	5.273		781	741	68.4	10.8	8.8
160825\160825016.D	F14-12	5.275		486	446	49.86	8.9	7.3

061-036-01 5.69 litres
US EPA
242484 collected: 8/24/2016
01; 11350

061-036-02 5.58 litres
US EPA
Mi51173 collected: 8/24/2016
C14-02; 11420

061-036-03 5.98 litres
US EPA
203157 collected: 8/25/2016
C14-03; 11130

061-036-04 6.36 litres
US EPA
242486 collected: 8/24/2016
C14-04; 11310

061-036-05 6.16 litres
US EPA
Mi51139 collected: 8/24/2016
C14-05; 3320

061-036-06 6.29 litres
US EPA
242448 collected: 8/24/2016
C14-06;3363

061-036-07 6.14 litres
US EPA
242412 collected: 8/24/2016
C14-07; 3314

061-036-08 5.96 litres
US EPA
203173 collected: 8/24/2016
C14-08; 3410

061-036-09 6.39 litres
US EPA
Mi51180 collected: 8/24/2016
C14-09; 8146

061-036-10 7.49 litres
US EPA
Mi51154 collected: 8/24/2016
C14-10; 8424

061-036-11 6.96 litres
US EPA
242405 collected: 8/24/2016
C14-11;8312

061-036-12 5.25 litres
US EPA
Mi51160 collected: 8/24/2016
C14-12;8356

061-036-13 5.57 litres
US EPA
203175 collected: 8/24/2016
C14-13; 9163

061-036-14 5.94 litres
US EPA
Mi51151 collected: 8/24/2016
C14-14;9246

061-036-15 7.19 litres
US EPA
203165 collected: 8/24/2016
C14-15;9365

061-036-16 6.92 litres
US EPA
203151 collected: 8/24/2016
C14-16;9419

061-036-17 5.22 litres
US EPA
203139 collected: 8/24/2016
C14-17; 12441

061-036-18 5.43 litres
US EPA
242469 collected: 8/24/2016
C14-18; 12414

061-036-19 6.08 litres
US EPA
Mi58838 collected: 8/24/2016
C14-19;12142

061-036-20 5.91 litres
US EPA
242413 collected: 8/24/2016
C14-20; 12351

061-036-21 53.83 litres
US EPA
F14-01 collected: 8/24/2016
F14-01

061-036-22 54.38 litres
US EPA
F14-02 collected: 8/24/2016
F14-02

061-036-23 54.67 litres
US EPA
F14-03 collected: 8/24/2016
F14-03

061-036-24 60.32 litres
US EPA
F14-04 collected: 8/24/2016
F14-04

061-036-25 61.08 litres
US EPA
F14-05 collected: 8/24/2016
F14-05

061-036-26 58.71 litres
US EPA
F14-06 collected: 8/24/2016
F14-06

061-036-27 58.98 litres
US EPA
F14-07 collected: 8/24/2016
F14-07

036-28 59.51 litres
US EPA
F14-08 collected: 8/24/2016
F14-08

061-036-29 60.89 litres
US EPA
F14-09 collected: 8/24/2016
F14-09

061-036-30 70.15 litres
US EPA
F14-10 collected: 8/24/2016
F14-10

061-036-31 68.4 litres
US EPA
F14-11 collected: 8/24/2016
F14-11

061-036-32 49.86 litres
US EPA
F14-12 collected: 8/24/2016
F14-12

061-036-33 52.22 litres
US EPA
F14-13 collected: 8/24/2016
F14-13

061-036-34 58.82 litres
US EPA
F14-14 collected: 8/24/2016
F14-14

061-036-35 68.17 litres
US EPA
F14-15 collected: 8/24/2016
F14-15

061-036-36 65.75 litres
US EPA
F14-16 collected: 8/24/2016
F14-16

061-036-37 51.69 litres
US EPA
F14-17 collected: 8/24/2016
F14-17

061-036-38 51.77 litres
US EPA
F14-18 collected: 8/24/2016
F14-18

061-036-39 57.56 litres
US EPA
F14-19 collected: 8/24/2016
F14-19

061-036-40 58.14 litres
US EPA
F14-20 collected: 8/24/2016
F14-20