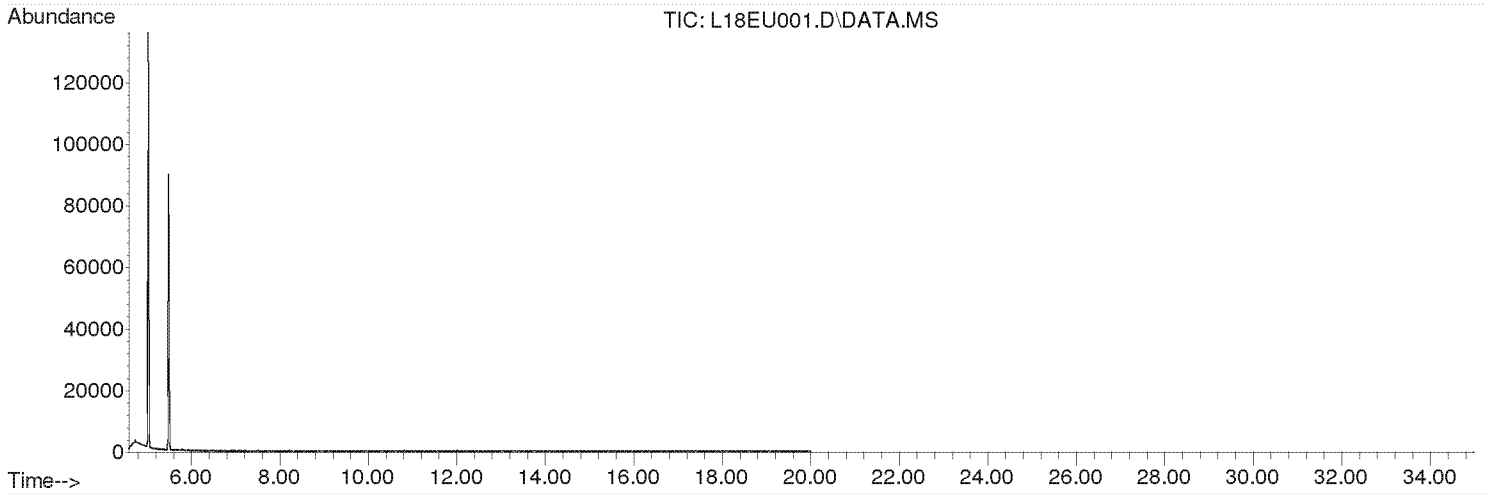
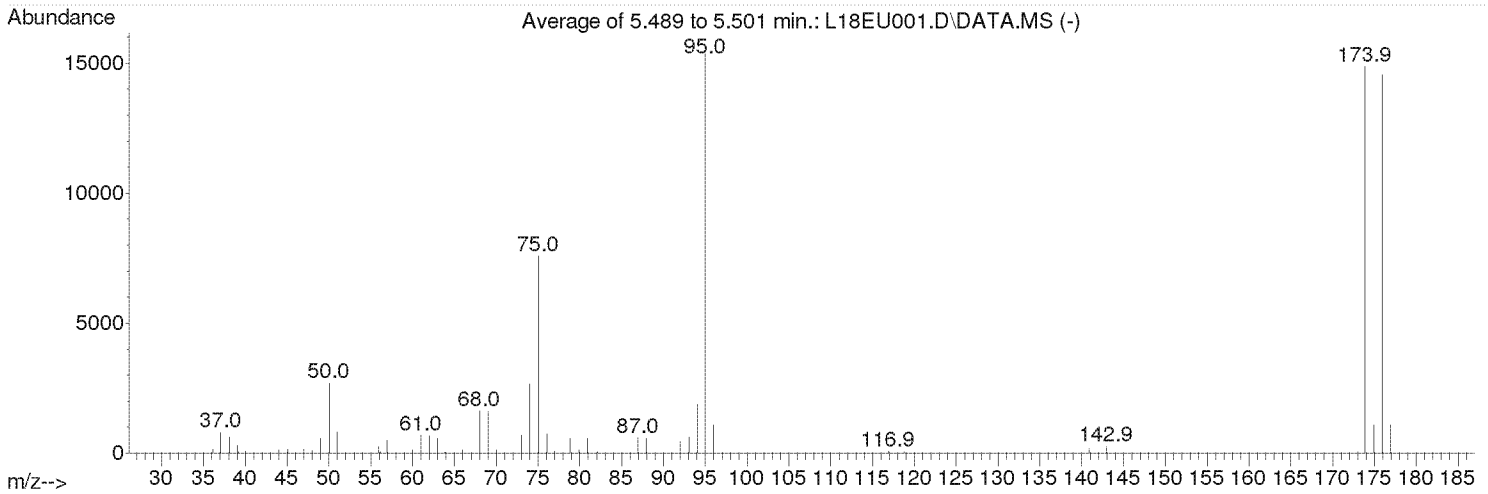
Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU001.D
Acq On : 21 May 2018 2:41 pm
Operator : MAH
Sample : BFB
Misc : 80ML IS 7L07001
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Y:\MASS SPEC 1 DATA\AIR_METHODS MS1\8050004_ETOX.M
Title : TO-15 by Selective Ion Analysis
Last Update : Mon May 21 13:28:21 2018





Spectrum Information: Average of 5.489 to 5.501 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	2670	PASS
75	95	30	66	49.2	7554	PASS
95	95	100	100	100.0	15355	PASS
96	95	5	9	6.9	1063	PASS
173	174	0.00	2	0.2	33	PASS
174	95	50	120	96.6	14834	PASS
175	174	4	9	7.1	1055	PASS
176	174	93	101	98.0	14536	PASS
177	176	5	9	7.3	1054	PASS

Compound Name			IS-Hexane-d14	IS-Hexane-d14
Labels	Date Acquired	Data File Name	(# 1) Target Response	(# 1) Ret Time
	5/22/2018 14:22	L18EU024.D	31344	20.01
Format 1 (Yes/No)				
Format 1 Title				
Format 2 (Yes/No)			YES	YES
Format 2 Title				
Show X Axis Title			YES	YES
Show Y Axis Title				
Lines To Chart				

Start of Data	Format 1 X-axis	Format 2 X-axis	**IS-Hexane-d14**	**% Rec**	**RT**	**DEV (min)**
		IS AVG / AVG RT	**37711**		**20.01**	
	5/21/2018 15:31	L18EU002.D	37571	**100**	20.01	**0**
	5/21/2018 16:33	L18EU003.D	37288	**99**	20.01	**0**
	5/21/2018 17:35	L18EU004.D	36101	**96**	20.01	**0**
	5/21/2018 18:37	L18EU005.D	35333	**94**	20.01	**0**
	5/21/2018 19:40	L18EU006.D	33625	**89**	20.01	**0**
	5/21/2018 20:42	L18EU007.D	33025	**88**	20.00	**-0.01**
	5/21/2018 21:44	L18EU008.D	32061	**85**	20.01	**0**
	5/21/2018 22:47	L18EU009.D	31888	**85**	20.01	**0**
	5/21/2018 23:49	L18EU010.D	34082	**90**	20.01	**0**
	5/22/2018 12:52	L18EU011.D	32693	**87**	20.01	**0**
	5/22/2018 1:54	L18EU012.D	32775	**87**	20.01	**0**
	5/22/2018 2:56	L18EU013.D	33231	**88**	20.01	**0**
	5/22/2018 3:59	L18EU014.D	29722	**79**	20.01	**0**
	5/22/2018 5:01	L18EU015.D	31409	**83**	20.01	**0**
	5/22/2018 6:03	L18EU016.D	32135	**85**	20.01	**0**
	5/22/2018 7:05	L18EU017.D	33279	**88**	20.01	**0**
	5/22/2018 8:08	L18EU018.D	31243	**83**	20.01	**0**
	5/22/2018 9:10	L18EU019.D	32779	**87**	20.01	**0**
	5/22/2018 10:12	L18EU020.D	32748	**87**	20.01	**0**
	5/22/2018 11:15	L18EU021.D	31044	**82**	20.01	**0**
	5/22/2018 12:17	L18EU022.D	31488	**83**	20.01	**0**
	5/22/2018 13:19	L18EU023.D	30545	**81**	20.01	**0**
	5/22/2018 14:22	L18EU024.D	31344	**83**	20.01	**0**

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\L18EU\L18EU001.D
Tune Time : 21 May 2018 2:41 pm

8050004_ETOX	IS Avg Area	37711	90570	55149
+40%		52796	126799	77209
-40%		22627	54342	33090

File	Sample	Internal Standard Responses		
L18EU002.D	1805056-CCV1	37571	93507	61924
L18EU003.D	B8E2105-BLK1	37288	91618	60098
L18EU004.D	8051813-03	36101	88107	57498
L18EU005.D	8051813-04	35333	87505	56921
L18EU006.D	B8E2105-DUP1	33625	81402	51217
L18EU007.D	B8E2105-DUP2	33025	81694	52107
L18EU008.D	8051813-08	32061	78125	50019
L18EU009.D	8051813-09	31888	80884	50496
L18EU010.D	B8E2105-DUP3	34082	84402	52255
L18EU011.D	B8E2105-DUP4	32693	82707	51494
L18EU012.D	8051813-11	32775	80380	50191
L18EU013.D	8051813-12	33231	82961	50969
L18EU014.D	B8E2105-DUP5	29722	72873	43672
L18EU015.D	B8E2105-DUP6	31409	79434	48314
L18EU016.D	8051813-01	32135	77196	49068
L18EU017.D	8051813-02	33279	83016	52995
L18EU018.D	8051813-05	31243	73329	47110
L18EU019.D	8051813-06	32779	79309	49598
L18EU020.D	8051813-07	32748	79450	47426
L18EU021.D	8051813-10	31044	73639	46088
L18EU022.D	8051813-13	31488	75075	46189
L18EU023.D	8051813-14	30545	75553	46670
L18EU024.D	8051813-15	31344	76516	47321

(fails) - fails 24hr time check * - fails criteria

ANALYSIS SEQUENCE

Instrument: ERGMS#1

1805056

Printed: 9/13/2018 3:19:03PM

Calibration ID: 8050004

Lab Number	Sample Name	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1805056-CCV1	Calibration Check	QC		1		8E10007	7L07002	
B8E2105-BLK1	Blank	QC		2			7L07002	
8051813-03	EtO Grab D1 41.7450,-87.9454	TO-15 2018 Ethylene Oxide	A	3			7L07002	
8051813-04	EtO Grab D2 41.7450,-87.9454	TO-15 2018 Ethylene Oxide	A	4			7L07002	
B8E2105-DUP1	Duplicate	QC		5			7L07002	
B8E2105-DUP2	Duplicate	QC		6			7L07002	
8051813-08	EtO D1 41.7474,-87.9385	TO-15 2018 Ethylene Oxide	A	7			7L07002	
8051813-09	EtO D2 41.7474,-87.9385	TO-15 2018 Ethylene Oxide	A	8			7L07002	
B8E2105-DUP3	Duplicate	QC		9			7L07002	
B8E2105-DUP4	Duplicate	QC		10			7L07002	
8051813-11	EtO D1 41.7474,-87.9385	TO-15 2018 Ethylene Oxide	A	11			7L07002	
8051813-12	EtO D2 41.7474,-87.9385	TO-15 2018 Ethylene Oxide	A	12			7L07002	
B8E2105-DUP5	Duplicate	QC		13			7L07002	
B8E2105-DUP6	Duplicate	QC		14			7L07002	
8051813-01	EtO Grab 41.7489,-87.9353	TO-15 2018 Ethylene Oxide	A	15			7L07002	
8051813-02	EtO Grab 41.7471,-87.9420	TO-15 2018 Ethylene Oxide	A	16			7L07002	
8051813-05	EtO Grab 41.7486,-87.9461	TO-15 2018 Ethylene Oxide	A	17			7L07002	
8051813-06	EtO Grab 41.7490,-87.9423	TO-15 2018 Ethylene Oxide	A	18			7L07002	
8051813-07	EtO Grab 41.7483,-87.9459	TO-15 2018 Ethylene Oxide	A	19			7L07002	
8051813-10	EtO 41.7483,-87.9459	TO-15 2018 Ethylene Oxide	A	20			7L07002	
8051813-13	e Oxide Upwind 12hr 41.7505,-	TO-15 2018 Ethylene Oxide	A	21			7L07002	
8051813-14	EtO 41.7483,-87.9459	TO-15 2018 Ethylene Oxide	A	22			7L07002	
8051813-15	EtO 41.7453,-87.9439	TO-15 2018 Ethylene Oxide	A	23			7L07002	

Samples Loaded By Date

Data Processed By Date

Analytical Standard Record
Eastern Research Group
8I10007

Description:	2.50 ppbv ICV/CCV	Expires:	10/10/18
Standard Type:	Calibration Star	Prepared:	09/10/18
Solvent:	Scientific Air	Prepared By:	Mitch Howell
Final Volume (mls):	6000	Department:	Air Toxics
Vials:	1	Last Edit:	09/10/18 12:24 by MH

canister# 3238

Analyte	CAS Number	Concentration	Units
Acrolein	107-02-8	0.00238	ppmv
cis-1,2-Dichloroethylene	156-59-2	0.00253	ppmv
Chloroprene	126-99-8	0.00246	ppmv
Chloromethane	74-87-3	0.0025	ppmv
Chloroform	67-66-3	0.00251	ppmv
Chloroethane	75-00-3	0.00251	ppmv
Chlorobenzene	108-90-7	0.00248	ppmv
Carbon Tetrachloride	56-23-5	0.00248	ppmv
Carbon Disulfide	75-15-0	0.00249	ppmv
Bromomethane	74-83-9	0.00248	ppmv
Bromoform	75-25-2	0.00256	ppmv
Bromodichloromethane	75-27-4	0.00258	ppmv
Bromochloromethane	74-97-5	0.00247	ppmv
1,1,1-Trichloroethane	71-55-6	0.0025	ppmv
Acrylonitrile	107-13-1	0.00245	ppmv
Dichlorodifluoromethane	75-71-8	0.00242	ppmv
Acetylene	74-86-2	0.00246	ppmv
Acetonitrile	75-05-8	0.00252	ppmv
1,3-Butadiene	106-99-0	0.00248	ppmv
1,3,5-Trimethylbenzene	108-67-8	0.0025	ppmv
1,2-Dichloropropane	78-87-5	0.00253	ppmv
1,2-Dichloroethane	107-06-2	0.0025	ppmv
1,2-Dibromoethane	106-93-4	0.0025	ppmv
1,2,4-Trimethylbenzene	95-63-6	0.00237	ppmv
1,2,4-Trichlorobenzene	120-82-1	0.00251	ppmv
1,1-Dichloroethene	75-35-4	0.00246	ppmv
1,1-Dichloroethane	75-34-3	0.00246	ppmv
1,1,2-Trichloroethane	79-00-5	0.0025	ppmv
1,1,2,2-Tetrachloroethane	79-34-5	0.00254	ppmv
Benzene	71-43-2	0.00252	ppmv

Reviewed By Date

Analytical Standard Record

Eastern Research Group

8I10007

n-Hexane	110-54-3	0.00248	ppmv
Trichlorotrifluoroethane	76-13-1	0.00246	ppmv
Trichlorofluoromethane	75-69-4	0.00248	ppmv
Trichloroethylene	79-01-6	0.00252	ppmv
trans-1,3-Dichloropropene	10061-02-6	0.00248	ppmv
trans-1,2-Dichloroethylene	156-60-5	0.0025	ppmv
Toluene	108-88-3	0.00244	ppmv
Tetrachloroethylene	127-18-4	0.00248	ppmv
tert-Amyl Methyl Ether	994-05-8	0.0026	ppmv
Styrene	100-42-5	0.0025	ppmv
Propylene	115-07-1	0.00246	ppmv
p-Dichlorobenzene	106-46-7	0.00261	ppmv
o-Xylene	95-47-6	0.00246	ppmv
o-Dichlorobenzene	95-50-1	0.00253	ppmv
cis-1,3-Dichloropropene	10061-01-5	0.00256	ppmv
Hexachloro-1,3-butadiene	87-68-3	0.00255	ppmv
Vinyl chloride	75-01-4	0.00252	ppmv
Dichloromethane	75-09-2	0.0025	ppmv
Dichlorotetrafluoroethane	76-14-2	0.00246	ppmv
Ethyl Acrylate	140-88-5	0.00254	ppmv
Ethyl tert-Butyl Ether	637-92-3	0.0026	ppmv
Naphthalene	91-20-3	0.0025	ppmv
Ethylene oxide	75-21-8	0.00255	ppmv
n-Octane	111-65-9	0.00248	ppmv
m,p-Xylene	108-38-3, 106-42-3	0.005	ppmv
m-Dichlorobenzene	541-73-1	0.0024	ppmv
Methyl Isobutyl Ketone	108-10-1	0.00254	ppmv
Methyl Methacrylate	80-62-6	0.00254	ppmv
Methyl tert-Butyl Ether	1634-04-4	0.0025	ppmv
Dibromochloromethane	124-48-1	0.00257	ppmv
Ethylbenzene	100-41-4	0.00252	ppmv

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
7J04001	TO-15 Secondary Stock Standard	10/04/17	Mitch Howell	09/25/18	10/04/17 09:52 by MH	30
8B27011	Ethylene Oxide Stock Standard	11/29/17	** Vendor **	11/29/18	02/27/18 11:23 by MH	15

Reviewed By Date

Evaluate Continuing Calibration Report

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU002.D
Acq On : 21 May 2018 3:31 pm
Operator : MAH
Sample : 1805056-CCV1
Misc : 80ML IS 7L07001,8E10007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 15:20:08 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 ISS	IS-Hexane-d14	1.000	1.000	0.0	104	0.00
2	Ethylene Oxide	0.228	0.232	-1.8	95	0.00
3 ISS	IS-1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
4 ISS	IS-Chlorobenzene-d5	1.000	1.000	0.0	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU002.D
Acq On : 21 May 2018 3:31 pm
Operator : MAH
Sample : 1805056-CCV1
Misc : 80ML IS 7L07001,8E10007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 15:20:08 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	37571	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	93507	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	61924	4.7000 ppbv	0.00

System Monitoring Compounds

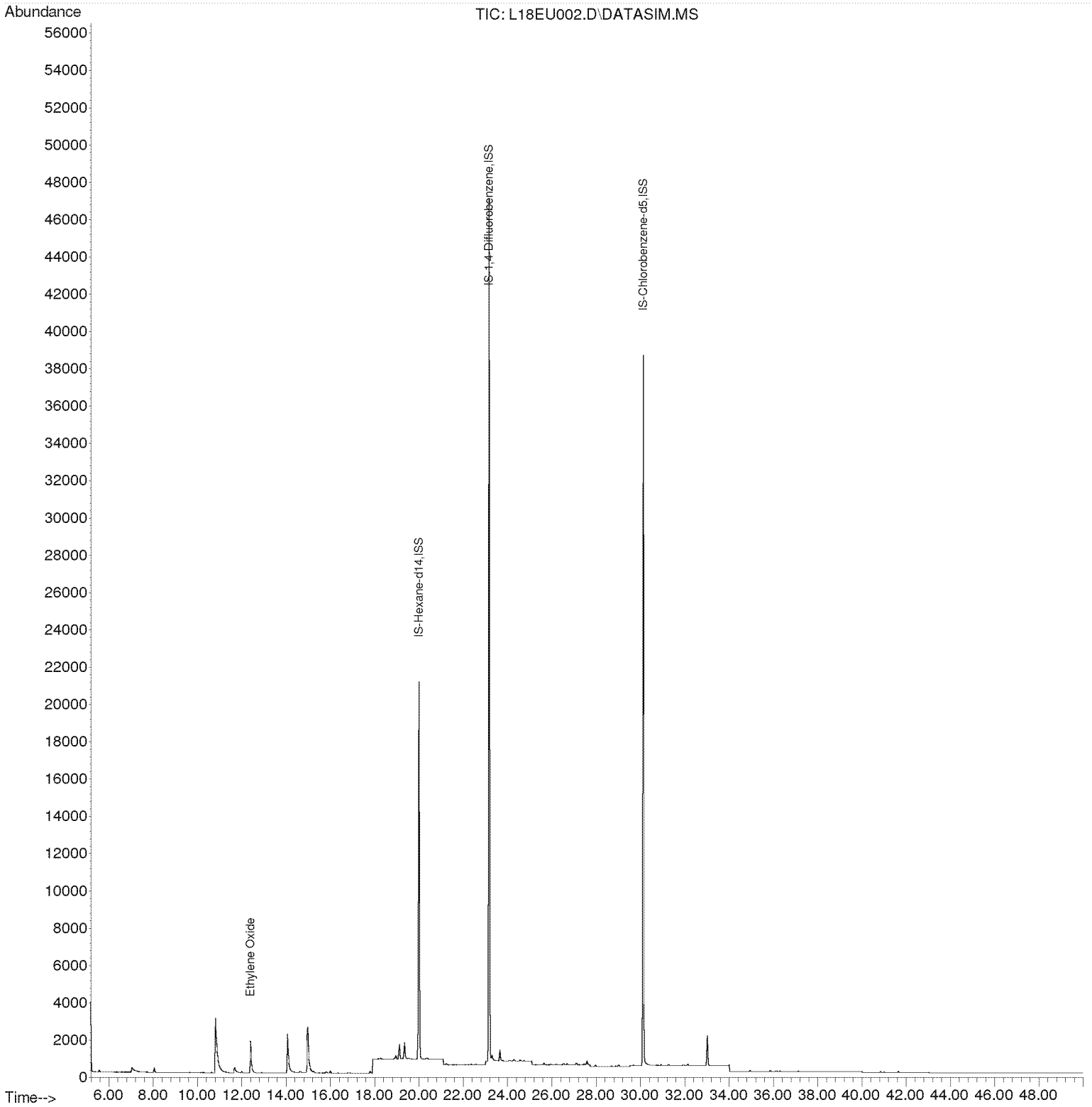
Target Compounds					Qvalue
2) Ethylene Oxide	12.391	29	4537m	2.5386 ppbv	

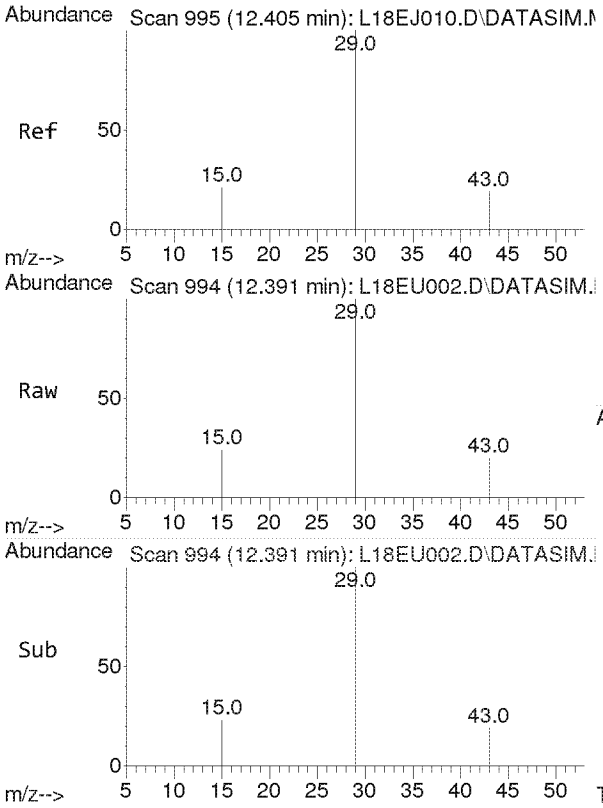
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU002.D
Acq On : 21 May 2018 3:31 pm
Operator : MAH
Sample : 1805056-CCV1
Misc : 80ML IS 7L07001,8E10007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 22 15:20:08 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

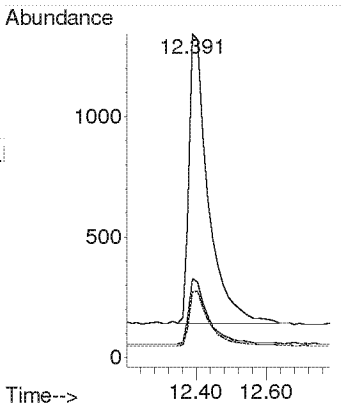




#2
Ethylene Oxide
Concen: 2.539 ppbv m
RT: 12.391 min Scan# 994
Delta R.T. -0.086 min
Lab File: L18EU002.D
Acq: 21 May 2018 3:31 pm

Tgt Ion: 29 Resp: 4537

Ion	Ratio	Lower	Upper
29	100		
15	23.1	20.4	30.6
43	19.7	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU003.D
Acq On : 21 May 2018 4:33 pm (#1); 21 May 2018 4:28 pm (#2)
Operator : MAH
Sample : B8E2105-BLK1
Misc : 80ML IS 7L07001 (Sig #1); (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 15:20:43 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	37288	4.8000	ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	91618	4.9300	ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	60098	4.7000	ppbv	0.00

System Monitoring Compounds

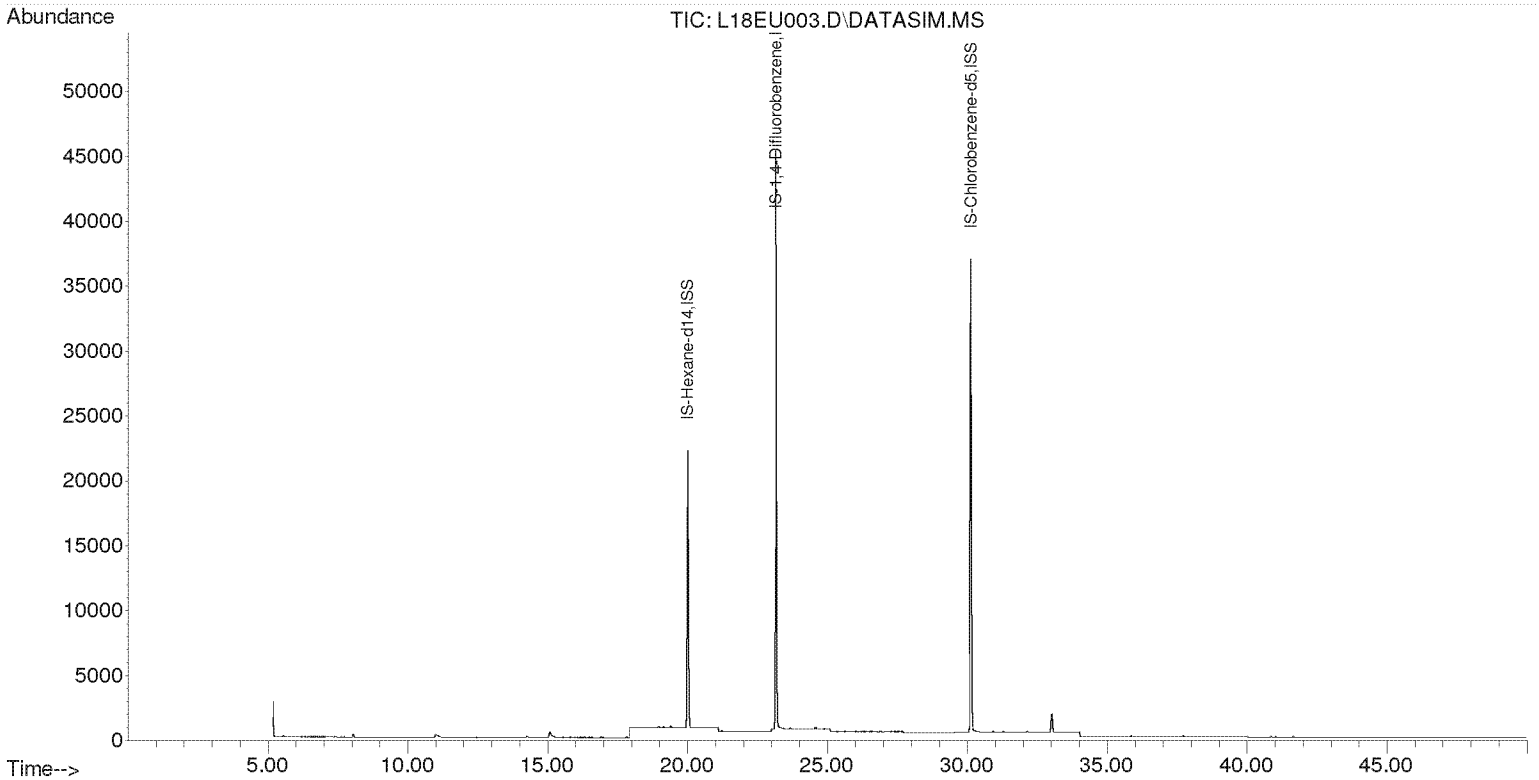
Target Compounds						Qvalue
2) Ethylene Oxide	0.000	29	0	N.D.	d	

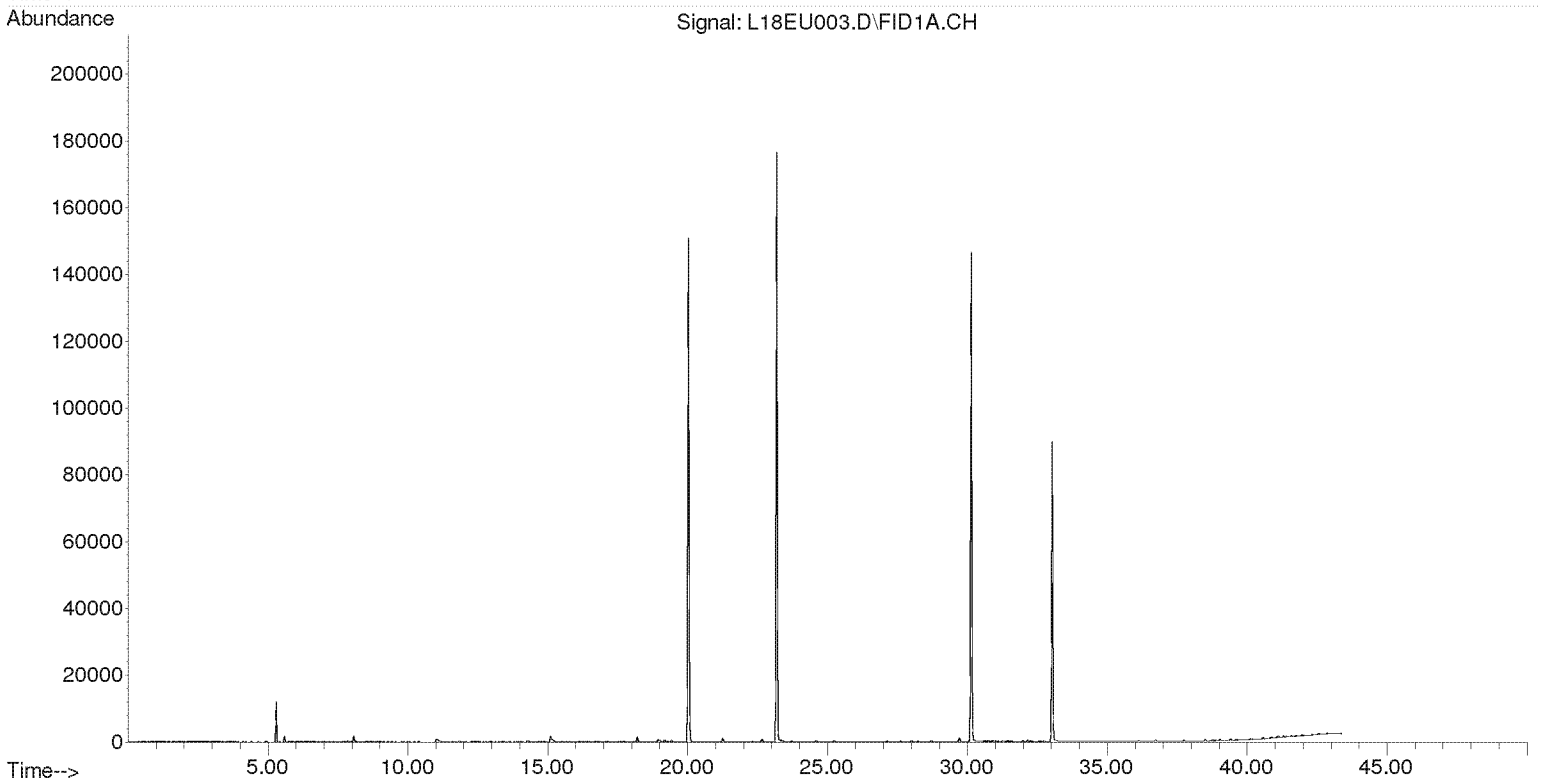
(#) = qualifier out of range (m) = manual integration (+) = signals summed

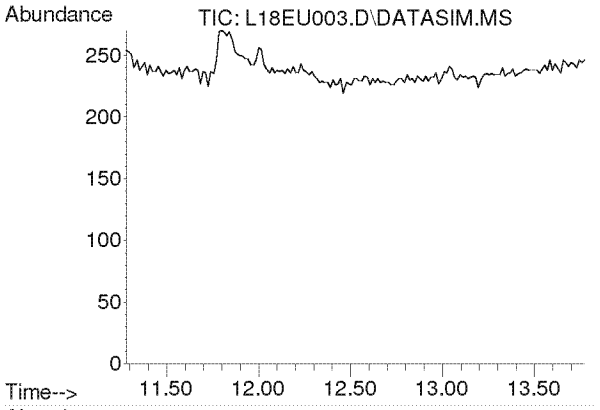
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU003.D
Acq On : 21 May 2018 4:33 pm (#1); 21 May 2018 4:28 pm (#2)
Operator : MAH
Sample : B8E2105-BLK1
Misc : 80ML IS 7L07001 (Sig #1); (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 22 15:20:43 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration





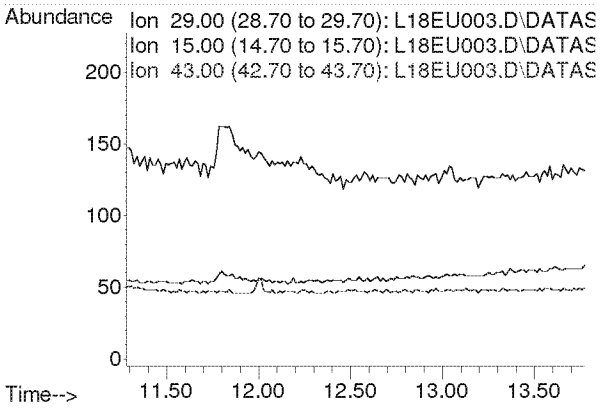


#2
Ethylene Oxide
Concen: N.D.
Expected RT: 12.48 min

Lab File: L18EU003.D
Acq: 21 May 2018 4:33 pm

Tgt Ion: 29

Sig	Exp Ratio
29	100
15	25.5
43	20.3



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU004.D
Acq On : 21 May 2018 5:35 pm
Operator : MAH
Sample : 8051813-03
Misc : WBIL C1 5/16/18
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 15:20:47 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	36101	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	88107	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	57498	4.7000 ppbv	0.00

System Monitoring Compounds

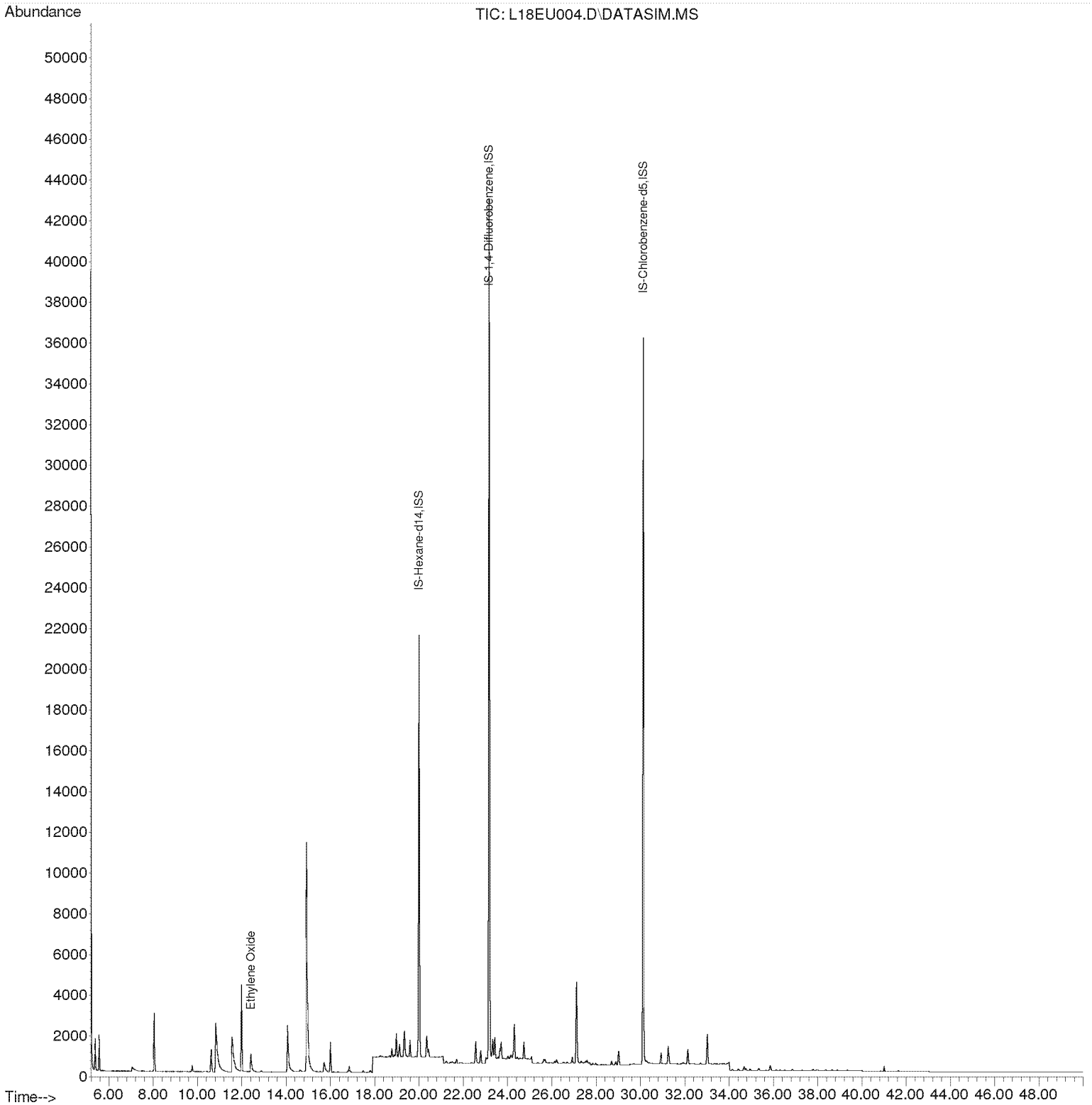
Target Compounds					Qvalue
2) Ethylene Oxide	12.419	29	2163m	1.2596 ppbv	

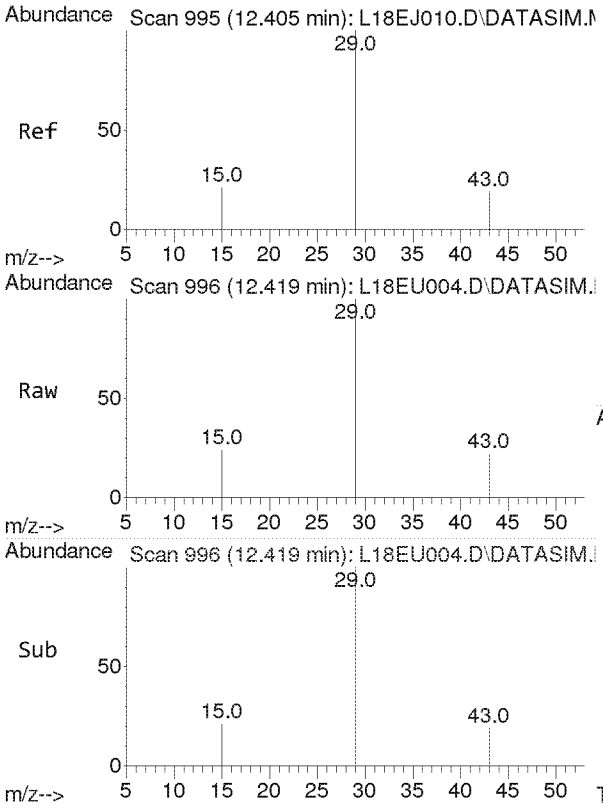
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU004.D
Acq On : 21 May 2018 5:35 pm
Operator : MAH
Sample : 8051813-03
Misc : WBIL C1 5/16/18
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 15:20:47 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

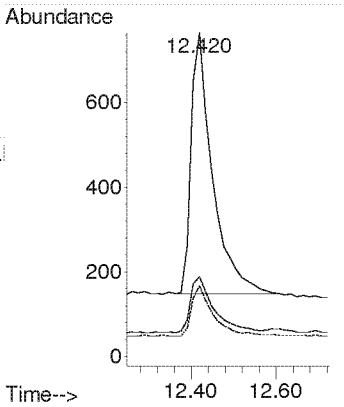




#2
Ethylene Oxide
Concen: 1.260 ppbv m
RT: 12.419 min Scan# 996
Delta R.T. -0.058 min
Lab File: L18EU004.D
Acq: 21 May 2018 5:35 pm

Tgt Ion: 29 Resp: 2163

Ion	Ratio	Lower	Upper
29	100		
15	24.8	20.4	30.6
43	19.6	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU005.D
Acq On : 21 May 2018 6:37 pm
Operator : MAH
Sample : 8051813-04
Misc : WBIL C2 5/16/18
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 15:20:50 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	35333	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	87505	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	56921	4.7000 ppbv	0.00

System Monitoring Compounds

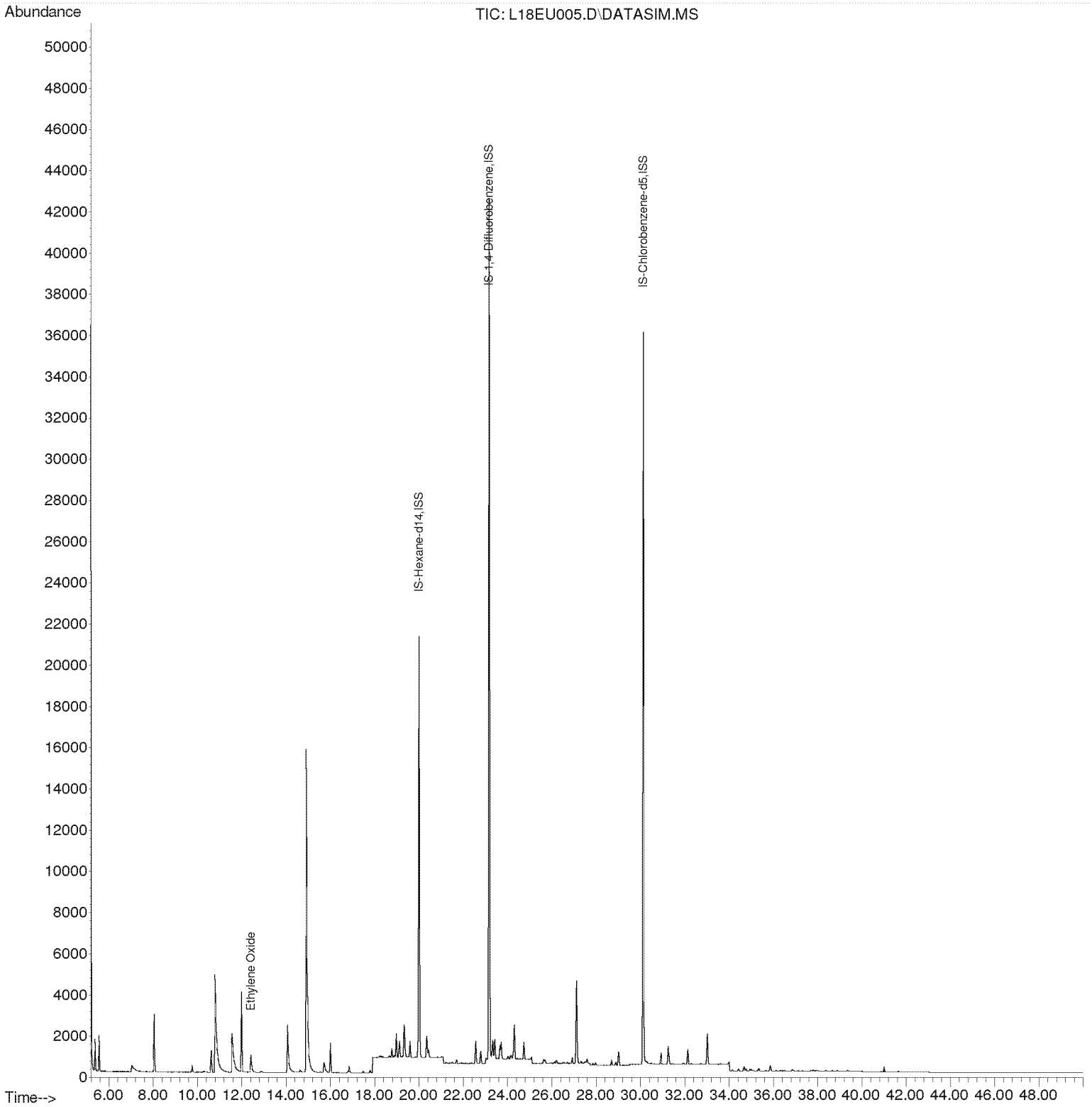
Target Compounds					Qvalue
2) Ethylene Oxide	12.419	29	2011m	1.1965 ppbv	

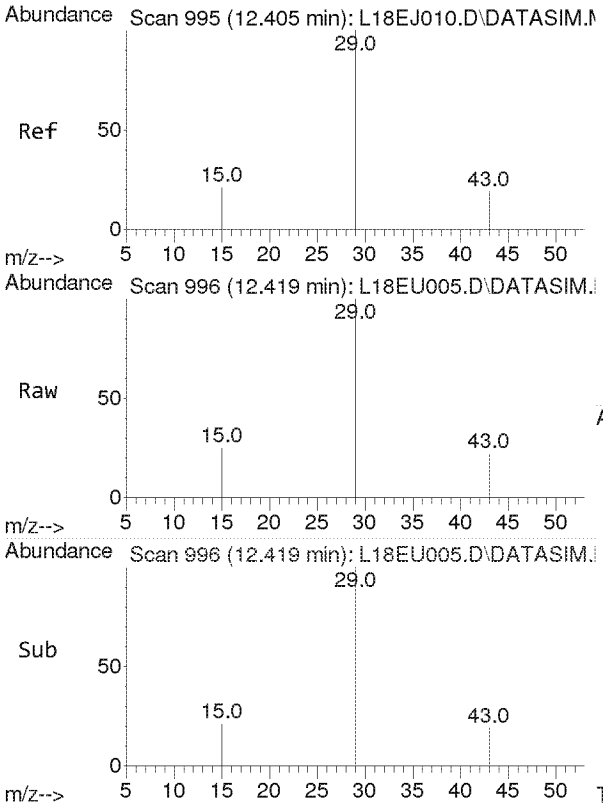
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU005.D
Acq On : 21 May 2018 6:37 pm
Operator : MAH
Sample : 8051813-04
Misc : WBIL C2 5/16/18
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 22 15:20:50 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

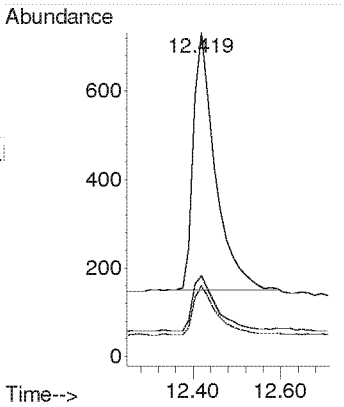




#2
Ethylene Oxide
Concen: 1.197 ppbv m
RT: 12.419 min Scan# 996
Delta R.T. -0.058 min
Lab File: L18EU005.D
Acq: 21 May 2018 6:37 pm

Tgt Ion: 29 Resp: 2011

Ion	Ratio	Lower	Upper
29	100		
15	23.4	20.4	30.6
43	20.5	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU006.D
Acq On : 21 May 2018 7:40 pm
Operator : MAH
Sample : B8E2105-DUP1
Misc : WBIL R1 5/16/18
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:21:14 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	33625	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	81402	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	51217	4.7000 ppbv	0.00

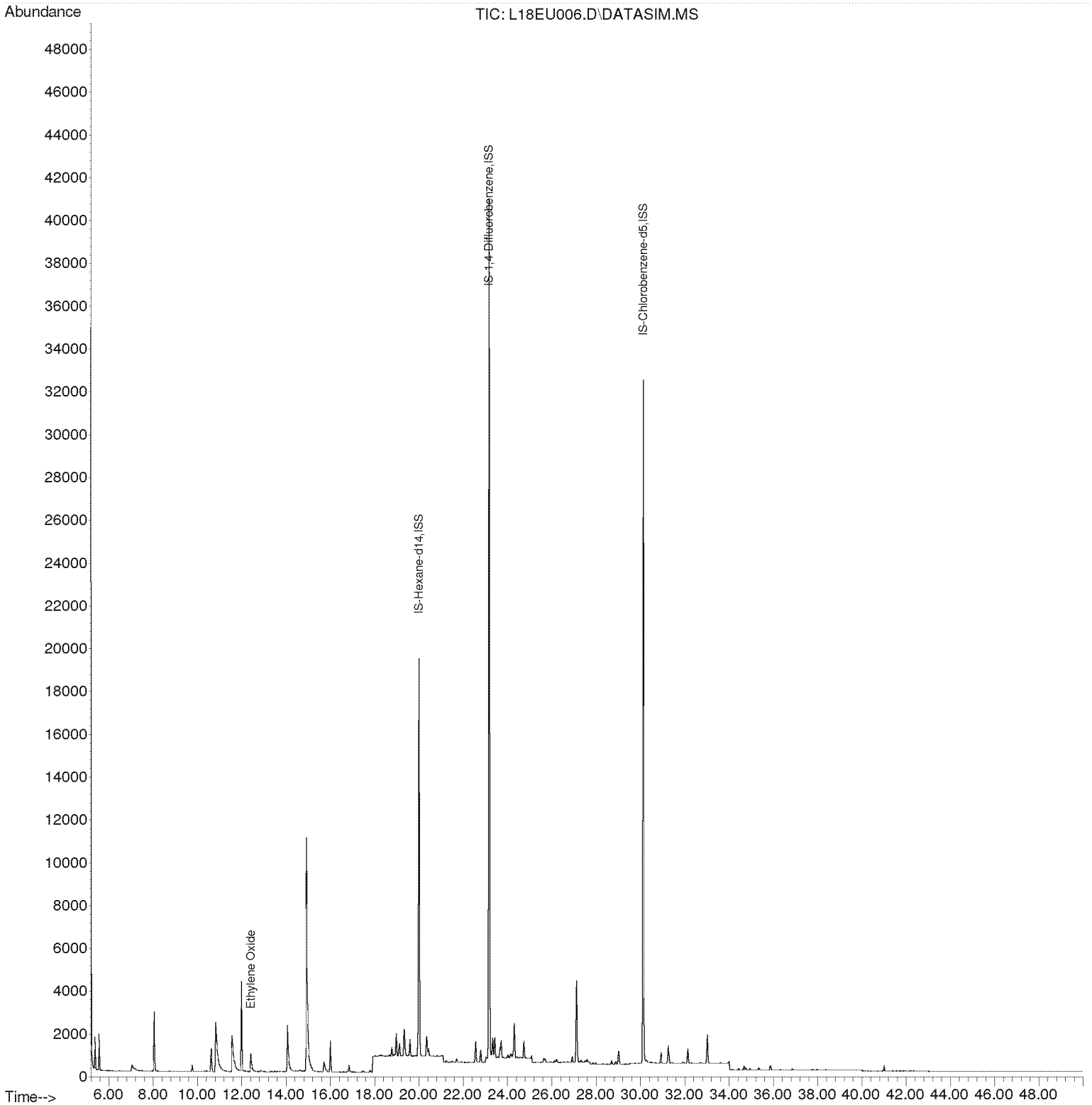
System Monitoring Compounds

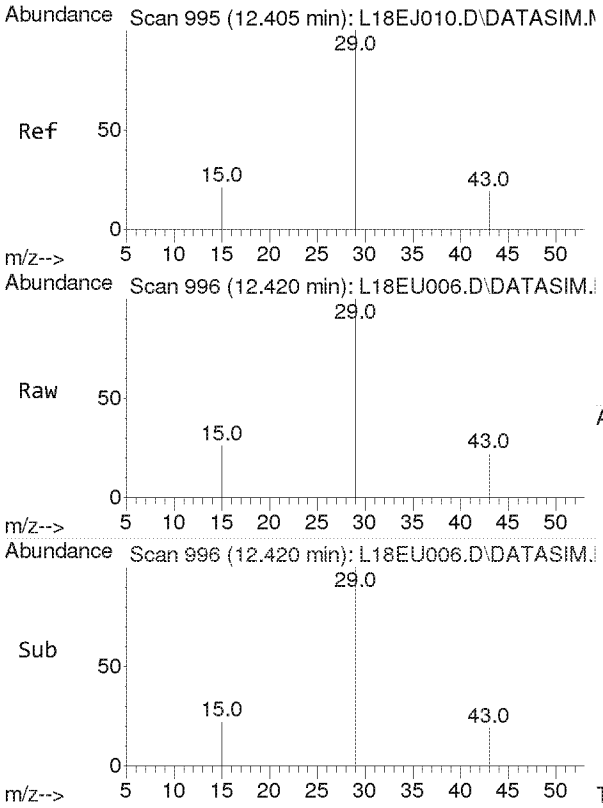
Target Compounds					Qvalue
2) Ethylene Oxide	12.420	29	2221m	1.3886 ppbv	

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

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU006.D
Acq On : 21 May 2018 7:40 pm
Operator : MAH
Sample : B8E2105-DUP1
Misc : WBIL R1 5/16/18
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 22 15:21:14 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

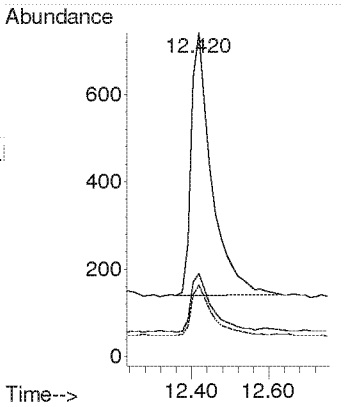




#2
Ethylene Oxide
Concen: 1.389 ppbv m
RT: 12.420 min Scan# 996
Delta R.T. -0.057 min
Lab File: L18EU006.D
Acq: 21 May 2018 7:40 pm

Tgt Ion: 29 Resp: 2221

Ion	Ratio	Lower	Upper
29	100		
15	24.2	20.4	30.6
43	19.7	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU007.D
Acq On : 21 May 2018 8:42 pm
Operator : MAH
Sample : B8E2105-DUP2
Misc : WBIL R2 5/16/18
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 22 15:21:25 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) IS-Hexane-d14	20.000	66	33025	4.8000	ppbv	0.00
3) IS-1,4-Difluorobenzene	23.157	114	81694	4.9300	ppbv	0.00
4) IS-Chlorobenzene-d5	30.130	117	52107	4.7000	ppbv	0.00

System Monitoring Compounds

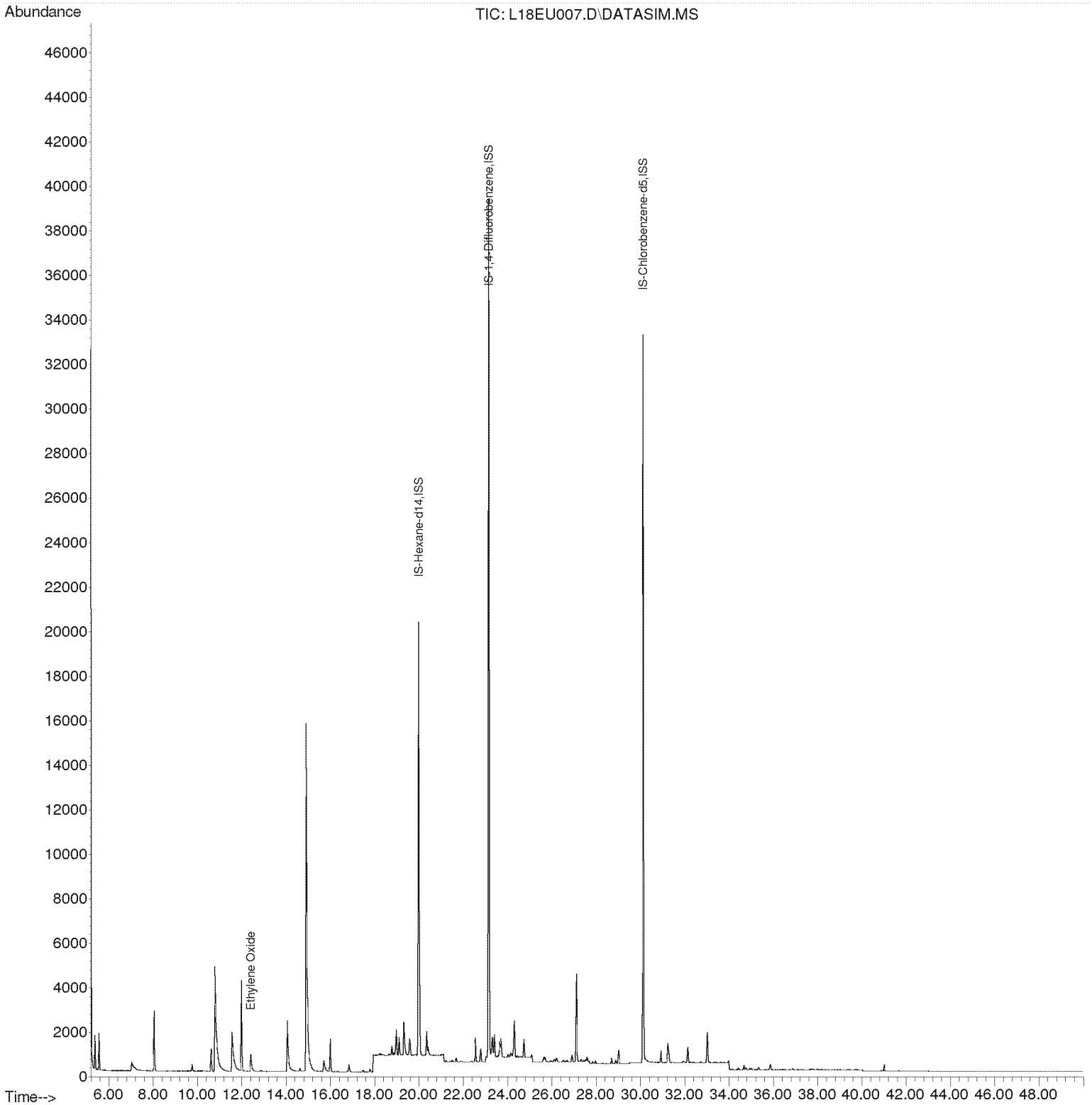
Target Compounds						Qvalue
2) Ethylene Oxide	12.419	29	1990m	1.2668	ppbv	

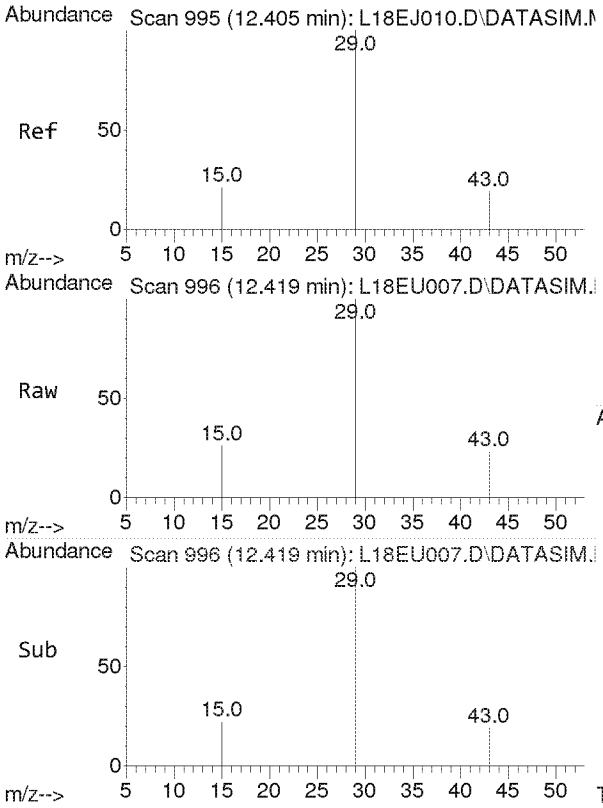
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU007.D
Acq On : 21 May 2018 8:42 pm
Operator : MAH
Sample : B8E2105-DUP2
Misc : WBIL R2 5/16/18
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 22 15:21:25 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

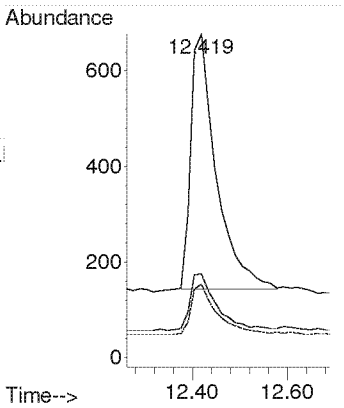




#2
Ethylene Oxide
Concen: 1.267 ppbv m
RT: 12.419 min Scan# 996
Delta R.T. -0.058 min
Lab File: L18EU007.D
Acq: 21 May 2018 8:42 pm

Tgt Ion: 29 Resp: 1990

Ion	Ratio	Lower	Upper
29	100		
15	24.2	20.4	30.6
43	20.8	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU008.D
Acq On : 21 May 2018 9:44 pm
Operator : MAH
Sample : 8051813-08
Misc : WBIL C1 5/16/18
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 22 15:21:34 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32061	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	78125	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	50019	4.7000 ppbv	0.00

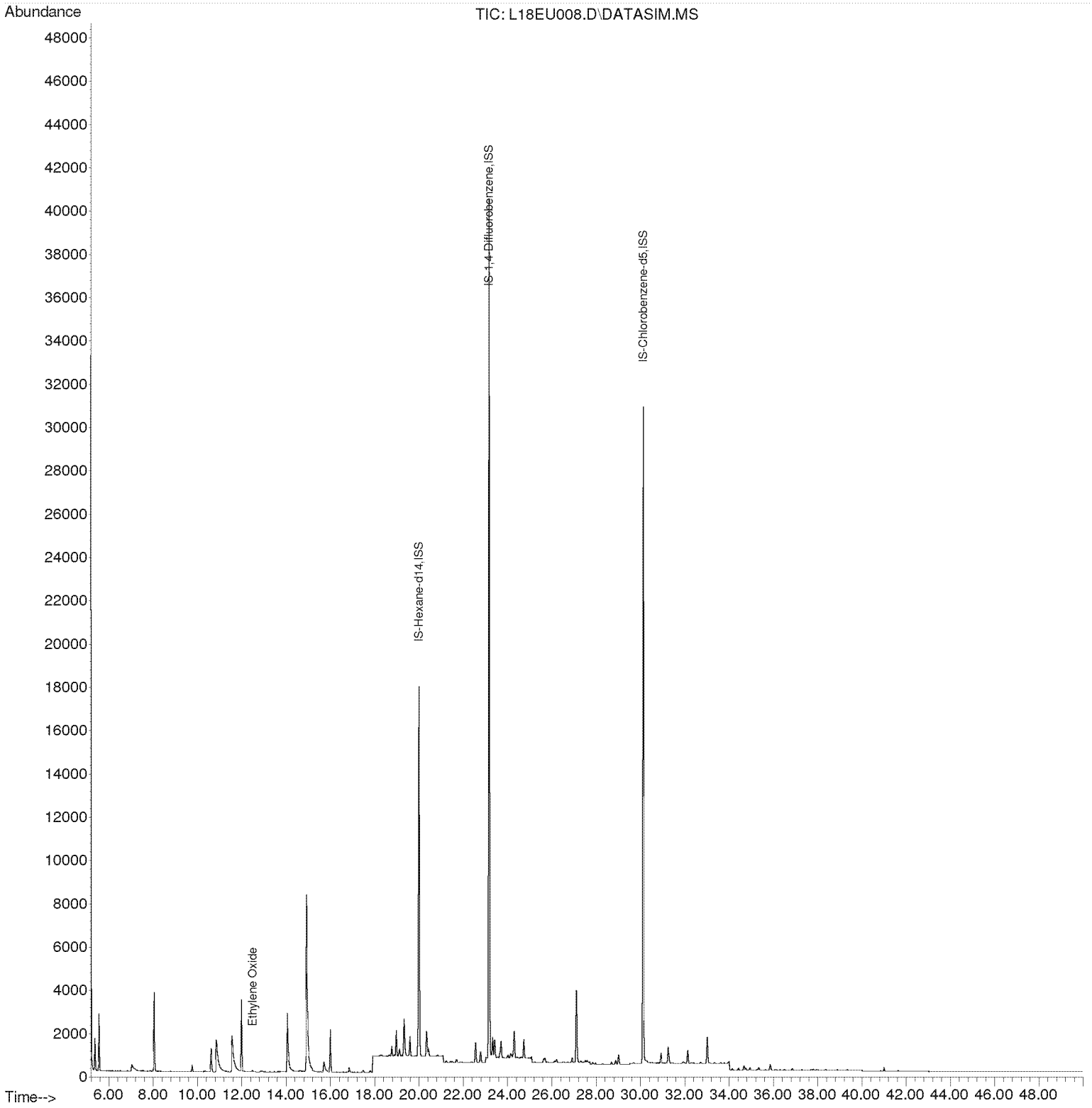
System Monitoring Compounds

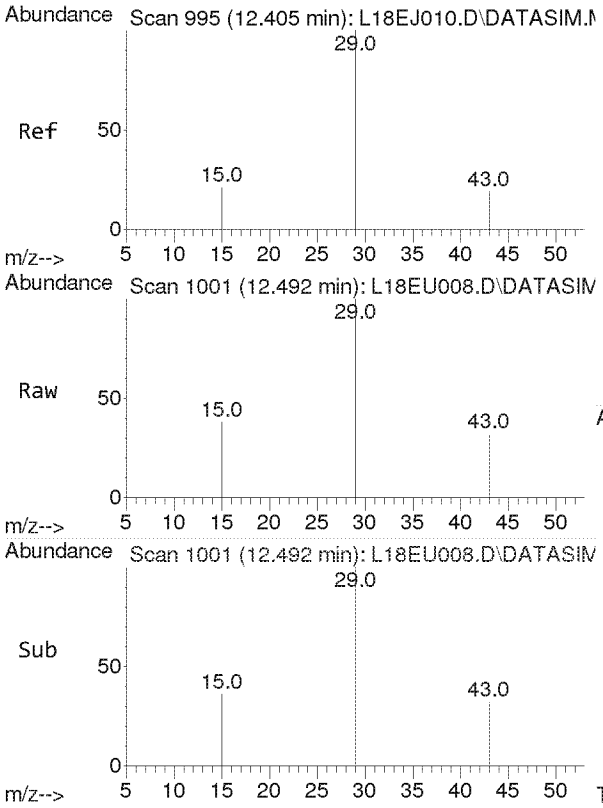
Target Compounds					Qvalue
2) Ethylene Oxide	12.492	29	133m	0.0872 ppbv	

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

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU008.D
Acq On : 21 May 2018 9:44 pm
Operator : MAH
Sample : 8051813-08
Misc : WBIL C1 5/16/18
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 22 15:21:34 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

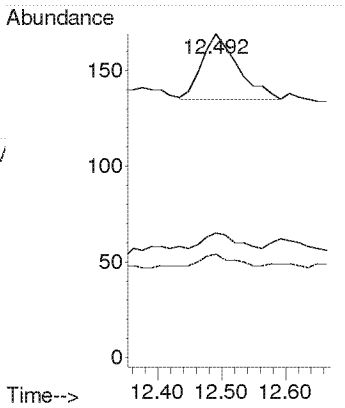




#2
Ethylene Oxide
Concen: 0.087 ppbv m
RT: 12.492 min Scan# 1001
Delta R.T. 0.014 min
Lab File: L18EU008.D
Acq: 21 May 2018 9:44 pm

Tgt Ion: 29 Resp: 133

Ion	Ratio	Lower	Upper
29	100		
15	0.0	20.4	30.6#
43	0.0	16.2	24.4#



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU009.D
Acq On : 21 May 2018 10:47 pm
Operator : MAH
Sample : 8051813-09
Misc : WBIL C2 5/16/18
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 22 15:21:43 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31888	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	80884	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	50496	4.7000 ppbv	0.00

System Monitoring Compounds

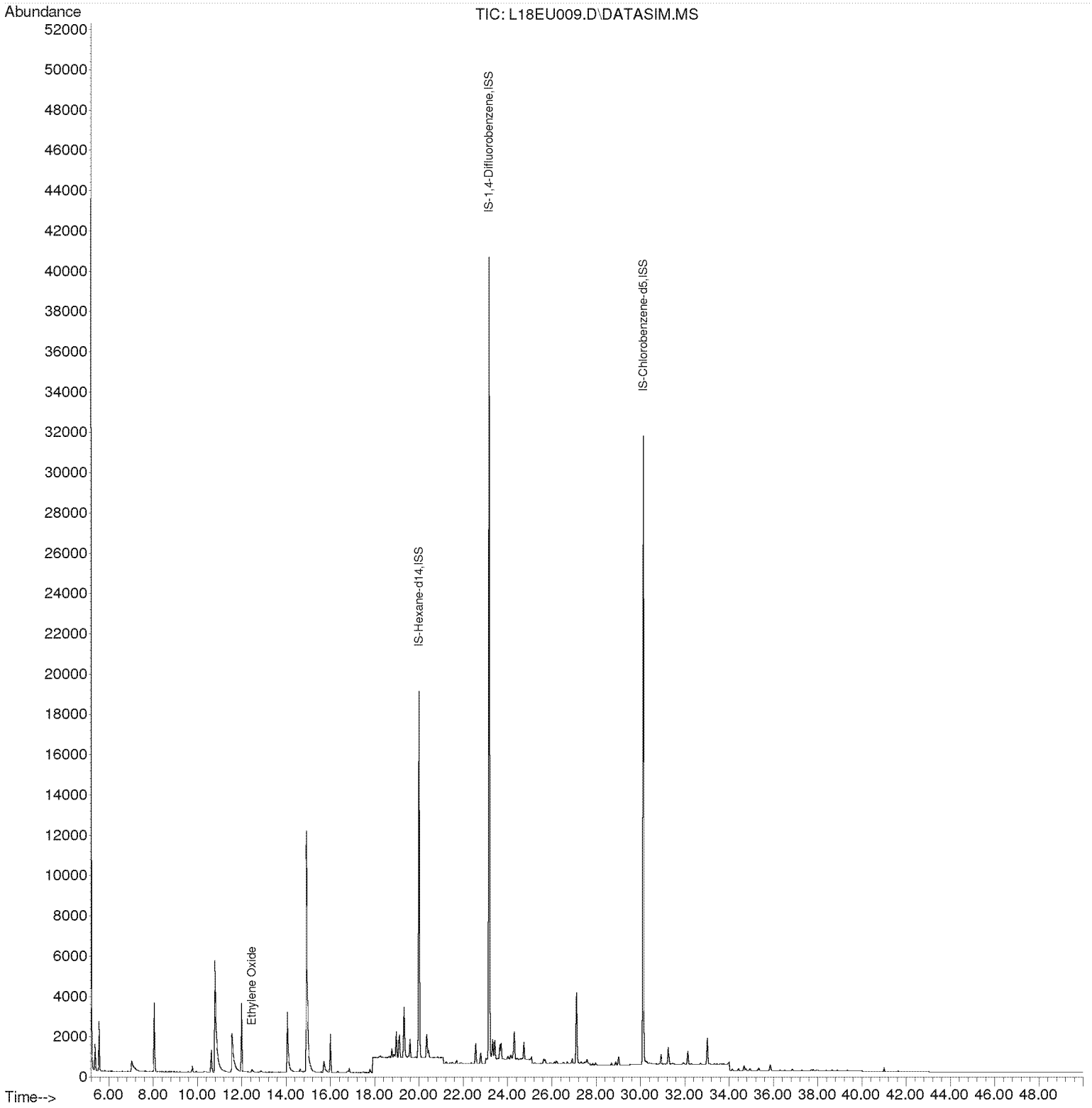
Target Compounds					Qvalue
2) Ethylene Oxide	12.463	29	339m	0.2235 ppbv	

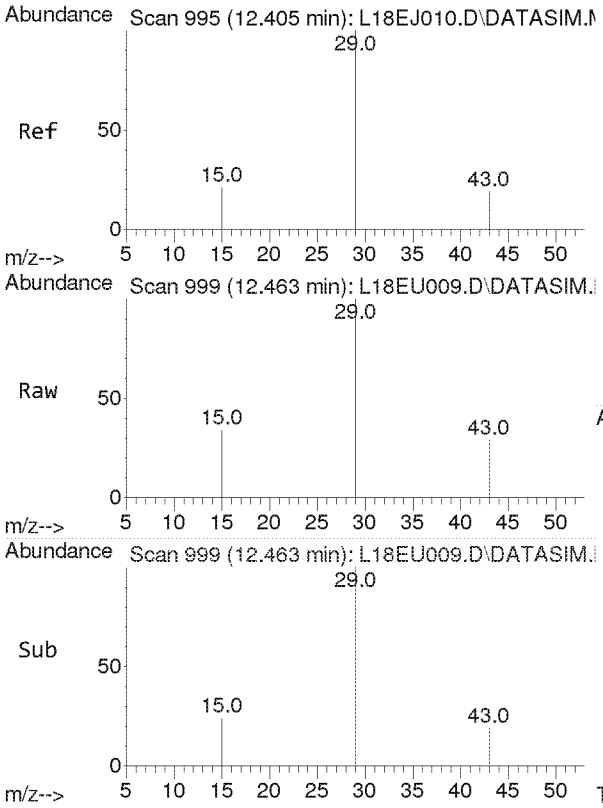
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU009.D
Acq On : 21 May 2018 10:47 pm
Operator : MAH
Sample : 8051813-09
Misc : WBIL C2 5/16/18
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 22 15:21:43 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

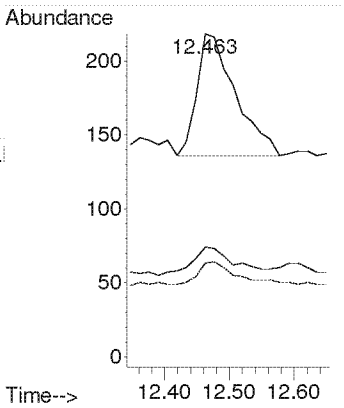




#2
Ethylene Oxide
Concen: 0.223 ppbv m
RT: 12.463 min Scan# 999
Delta R.T. -0.014 min
Lab File: L18EU009.D
Acq: 21 May 2018 10:47 pm

Tgt Ion: 29 Resp: 339

Ion	Ratio	Lower	Upper
29	100		
15	25.4	20.4	30.6
43	21.8	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU010.D
Acq On : 21 May 2018 11:49 pm
Operator : MAH
Sample : B8E2105-DUP3
Misc : WBIL R1 5/16/18
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 22 15:21:52 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	34082	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	84402	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	52255	4.7000 ppbv	0.00

System Monitoring Compounds

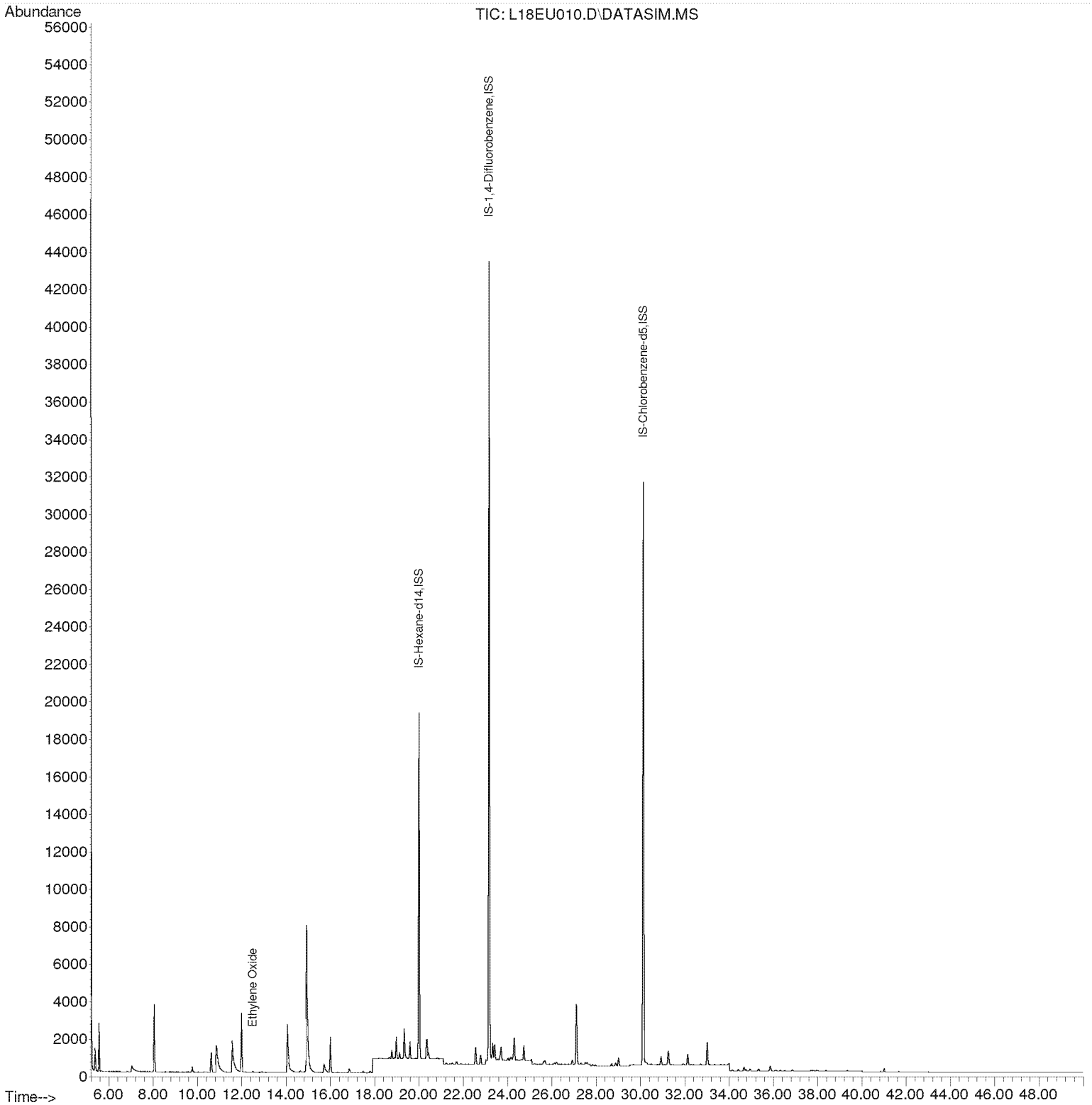
Target Compounds					Qvalue
2) Ethylene Oxide	12.491	29	107m	0.0660 ppbv	

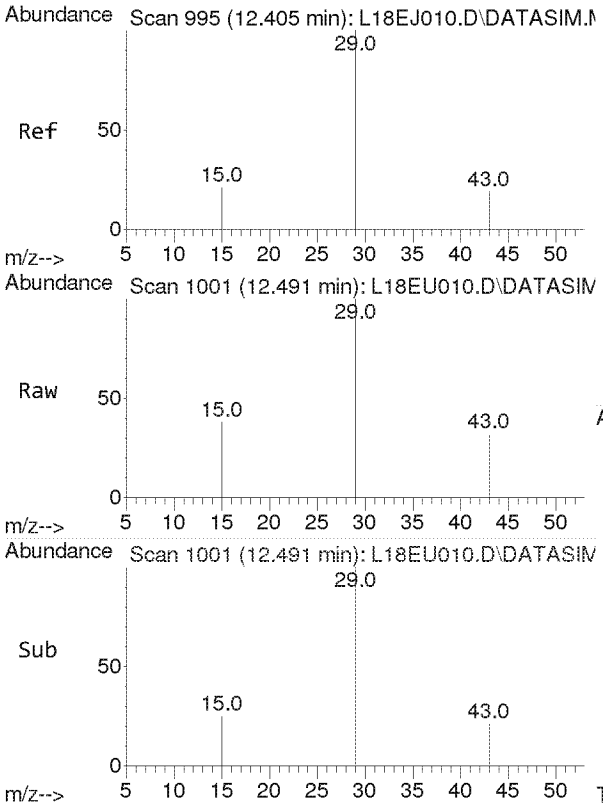
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU010.D
Acq On : 21 May 2018 11:49 pm
Operator : MAH
Sample : B8E2105-DUP3
Misc : WBIL R1 5/16/18
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 22 15:21:52 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

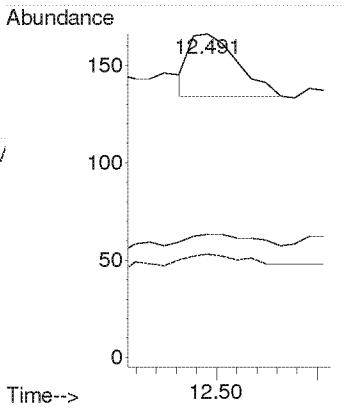




#2
Ethylene Oxide
Concen: 0.066 ppbv m
RT: 12.491 min Scan# 1001
Delta R.T. 0.014 min
Lab File: L18EU010.D
Acq: 21 May 2018 11:49 pm

Tgt Ion: 29 Resp: 107

Ion	Ratio	Lower	Upper
29	100		
15	47.7	20.4	30.6#
43	29.0	16.2	24.4#



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU011.D
Acq On : 22 May 2018 12:52 am
Operator : MAH
Sample : B8E2105-DUP4
Misc : WBIL R2 5/16/18
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 22 15:21:55 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32693	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	82707	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	51494	4.7000 ppbv	0.00

System Monitoring Compounds

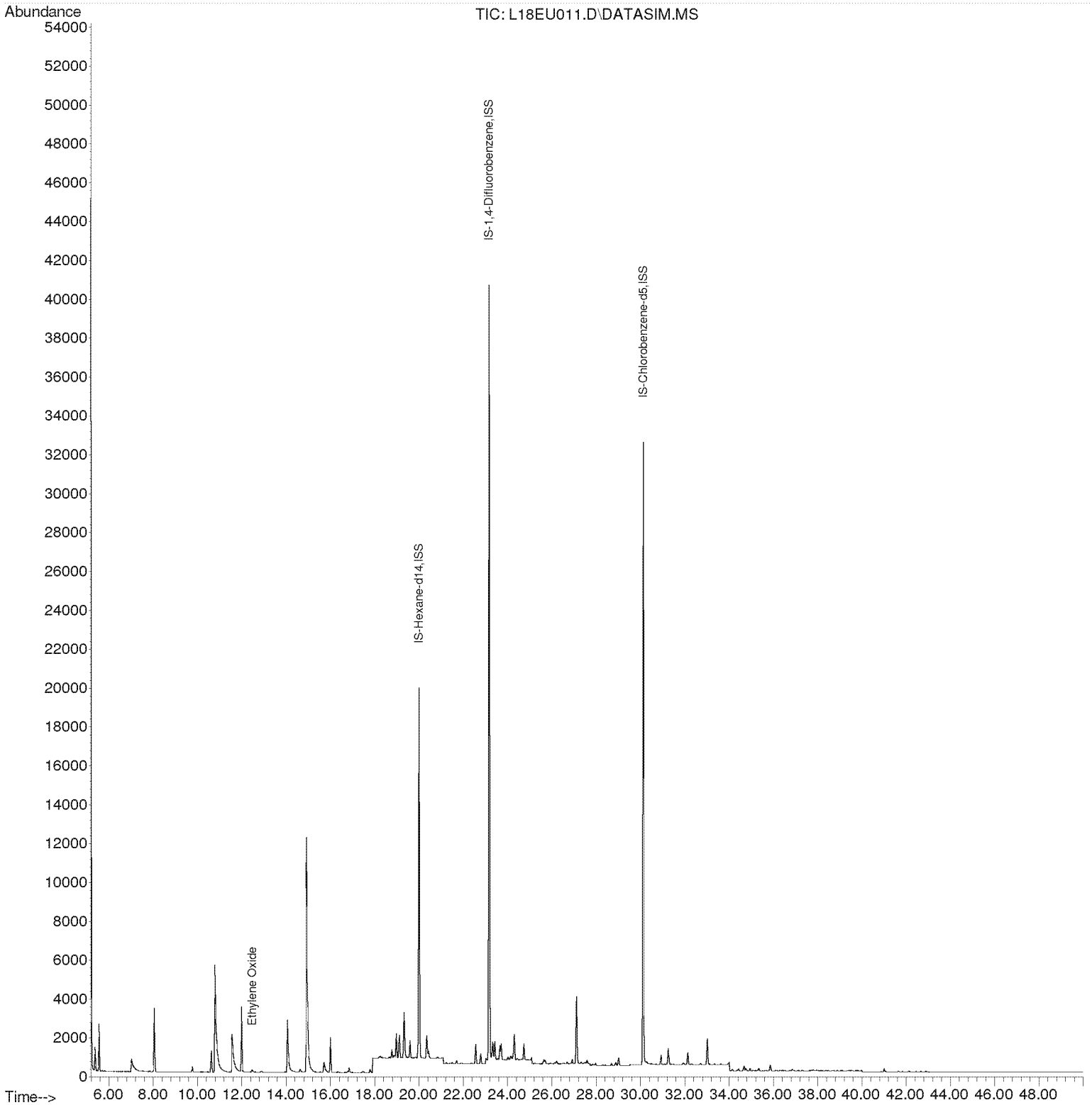
Target Compounds					Qvalue
2) Ethylene Oxide	12.477	29	293m	0.1884 ppbv	

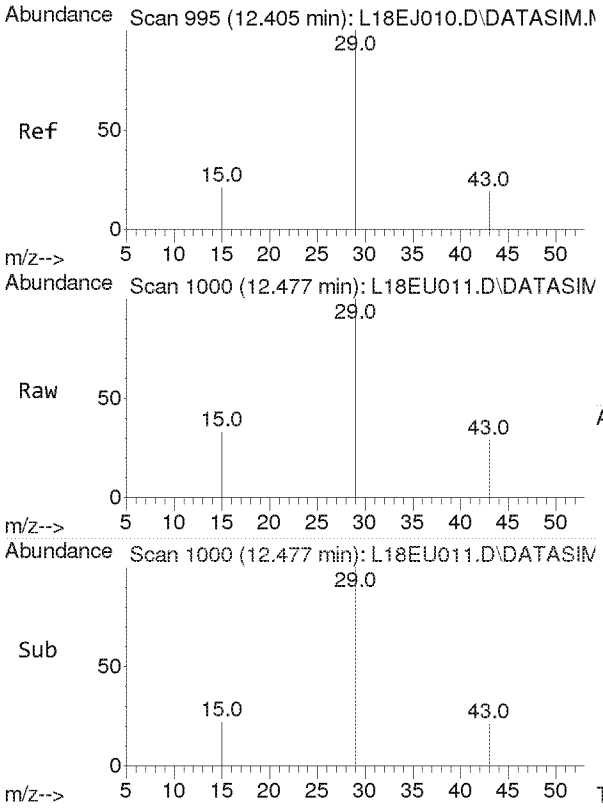
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU011.D
Acq On : 22 May 2018 12:52 am
Operator : MAH
Sample : B8E2105-DUP4
Misc : WBIL R2 5/16/18
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 22 15:21:55 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

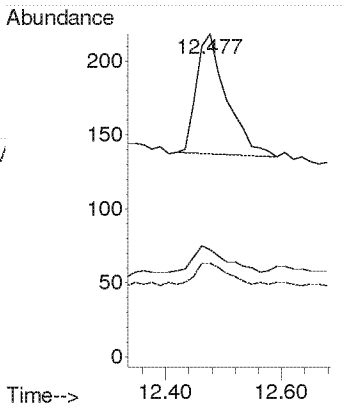




#2
Ethylene Oxide
Concen: 0.188 ppbv m
RT: 12.477 min Scan# 1000
Delta R.T. -0.000 min
Lab File: L18EU011.D
Acq: 22 May 2018 12:52 am

Tgt Ion: 29 Resp: 293

Ion	Ratio	Lower	Upper
29	100		
15	22.9	20.4	30.6
43	23.2	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU012.D
Acq On : 22 May 2018 1:54 am
Operator : MAH
Sample : 8051813-11
Misc : WBIL C1 5/16/18
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 22 15:22:00 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32775	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	80380	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	50191	4.7000 ppbv	0.00

System Monitoring Compounds

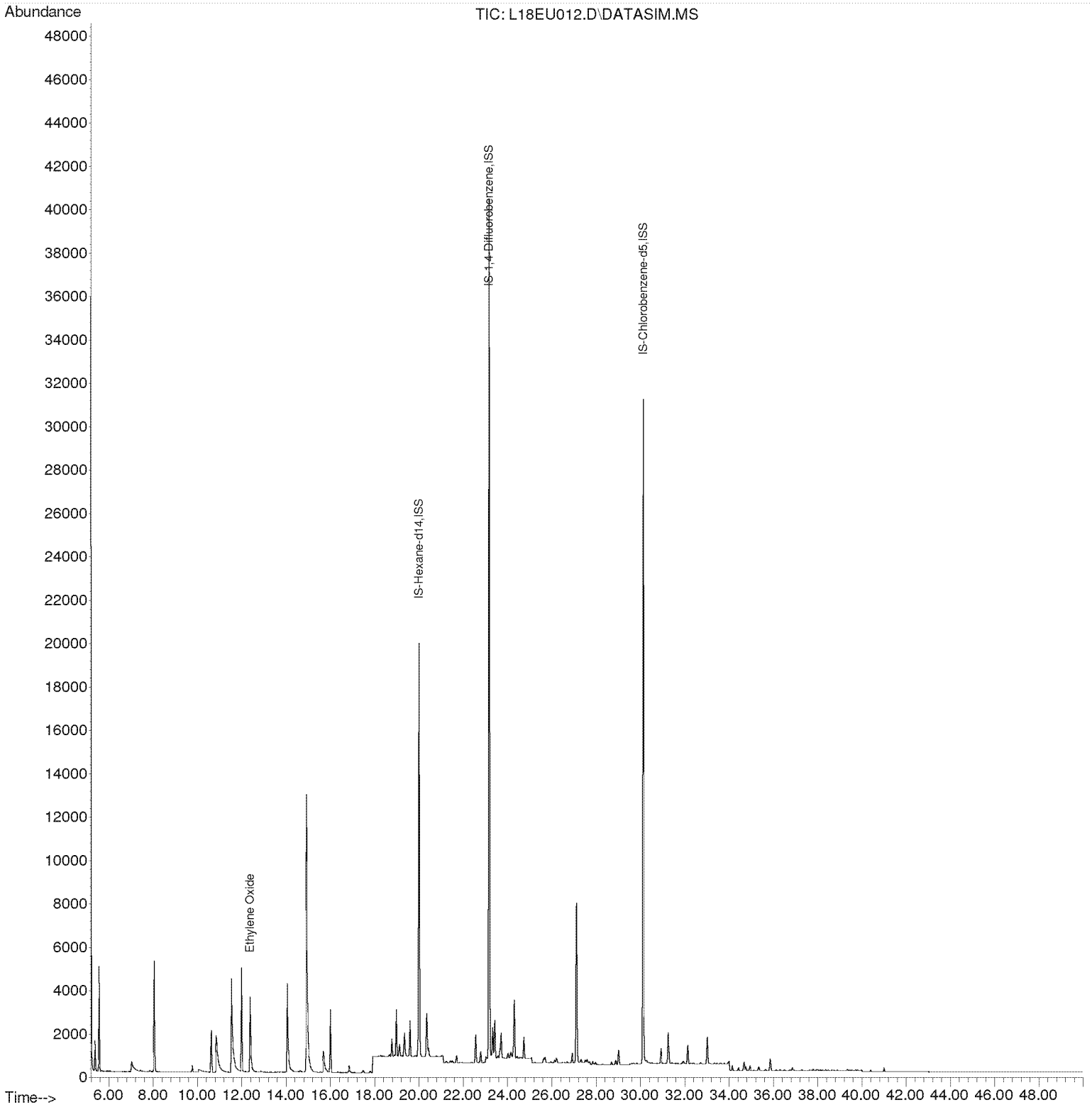
Target Compounds					Qvalue
2) Ethylene Oxide	12.376	29	8201m	5.2603 ppbv	

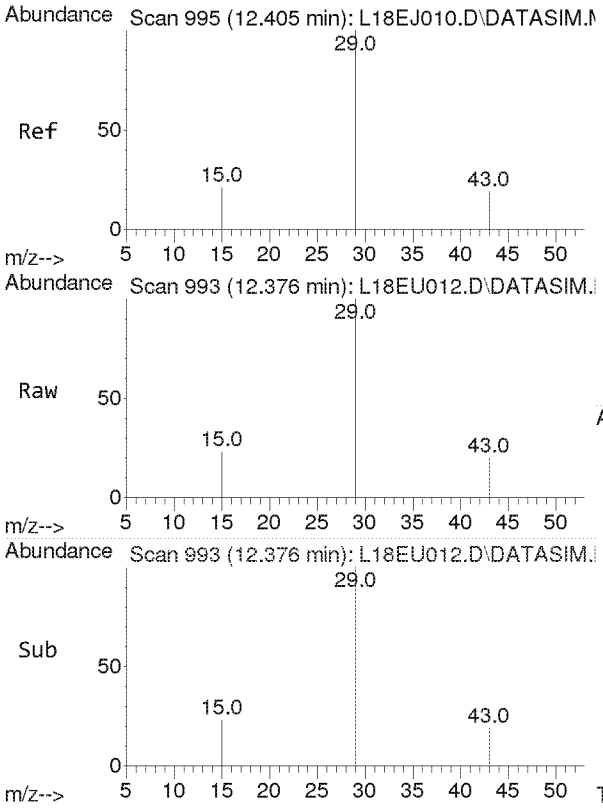
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU012.D
Acq On : 22 May 2018 1:54 am
Operator : MAH
Sample : 8051813-11
Misc : WBIL C1 5/16/18
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 22 15:22:00 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

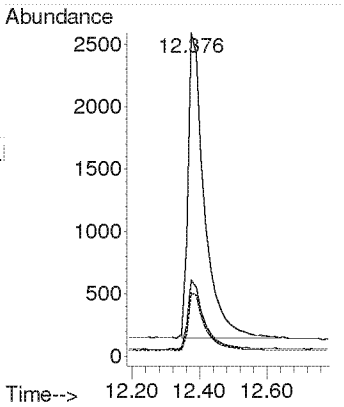




#2
Ethylene Oxide
Concen: 5.260 ppbv m
RT: 12.376 min Scan# 993
Delta R.T. -0.101 min
Lab File: L18EU012.D
Acq: 22 May 2018 1:54 am

Tgt Ion: 29 Resp: 8201

Ion	Ratio	Lower	Upper
29	100		
15	22.8	20.4	30.6
43	19.2	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU013.D
Acq On : 22 May 2018 2:56 am
Operator : MAH
Sample : 8051813-12
Misc : WBIL C2 5/16/18
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 22 15:22:52 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	33231	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	82961	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	50969	4.7000 ppbv	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Ethylene Oxide	12.391	29	8145	5.1527 ppbv	96

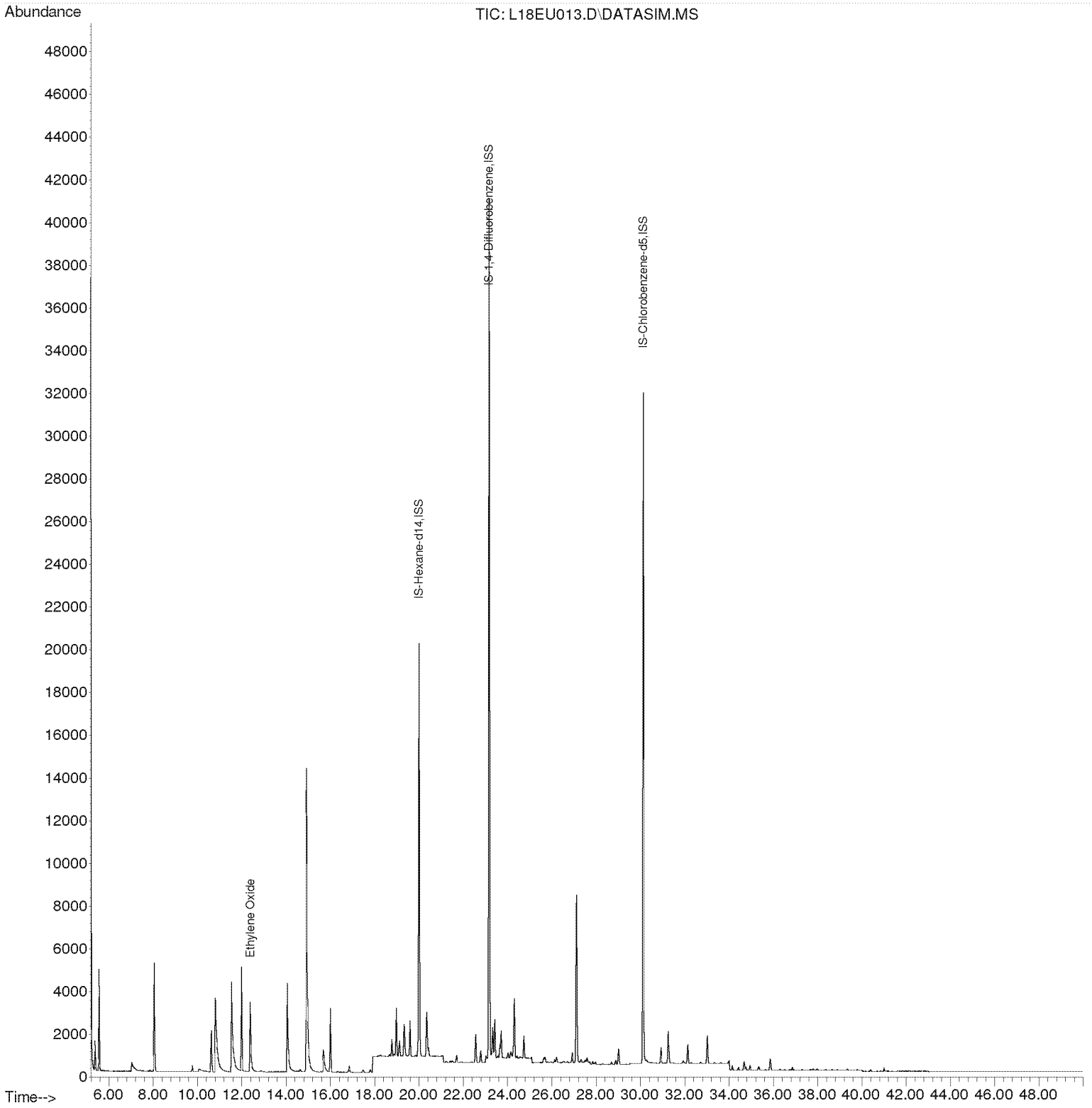
(#) = qualifier out of range (m) = manual integration (+) = signals summed

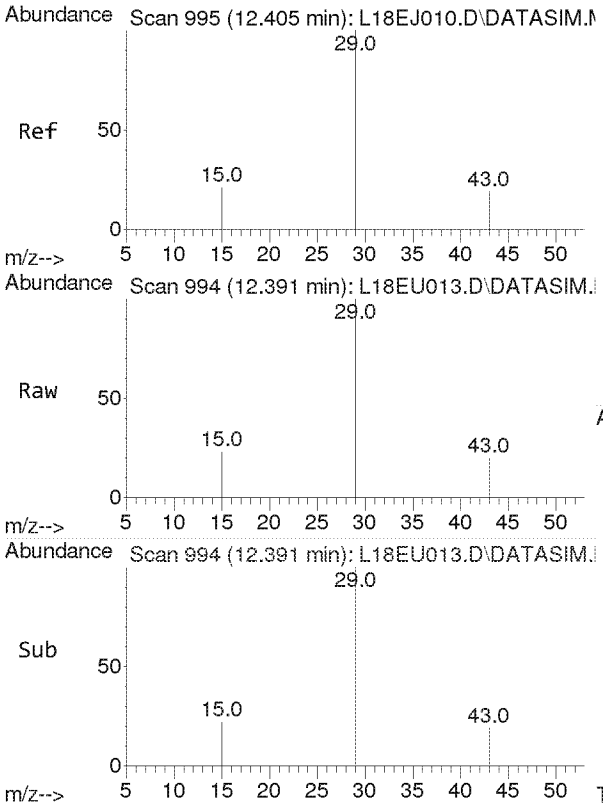
ED_002475_00000165-00042

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU013.D
Acq On : 22 May 2018 2:56 am
Operator : MAH
Sample : 8051813-12
Misc : WBIL C2 5/16/18
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 22 15:22:52 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

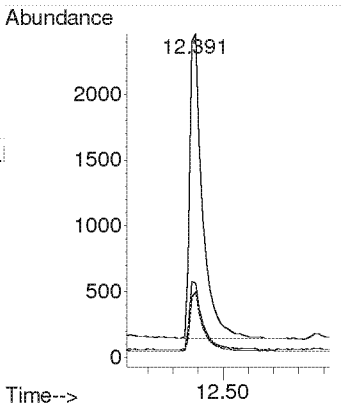




#2
Ethylene Oxide
Concen: 5.153 ppbv
RT: 12.391 min Scan# 994
Delta R.T. -0.086 min
Lab File: L18EU013.D
Acq: 22 May 2018 2:56 am

Tgt Ion: 29 Resp: 8145

Ion	Ratio	Lower	Upper
29	100		
15	23.0	20.4	30.6
43	19.1	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU014.D
Acq On : 22 May 2018 3:59 am
Operator : MAH
Sample : B8E2105-DUP5
Misc : WBIL R1 5/16/18
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 22 15:22:34 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	29722	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	72873	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	43672	4.7000 ppbv	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Ethylene Oxide	12.376	29	8076m	5.7122 ppbv	

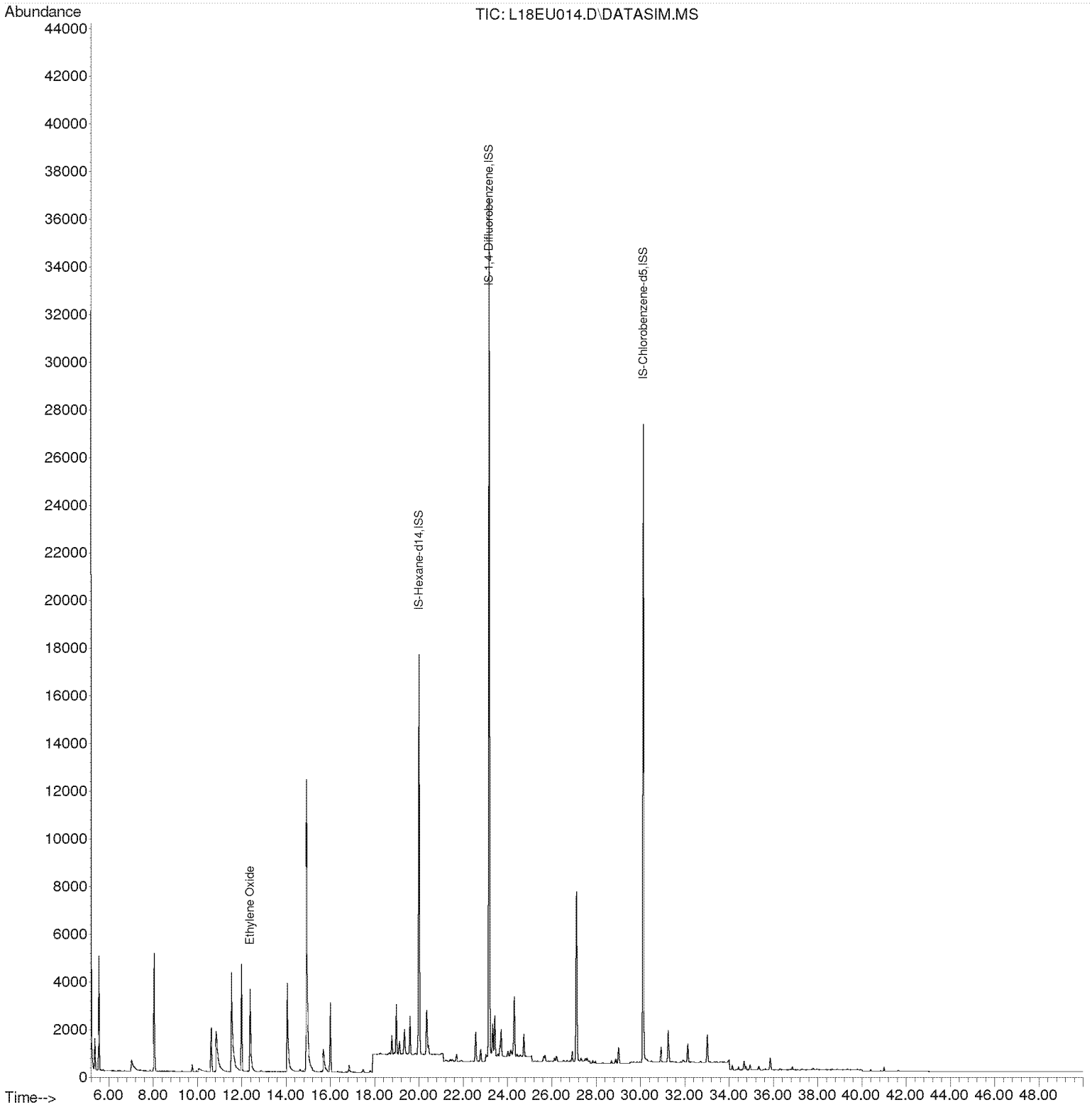
(#) = qualifier out of range (m) = manual integration (+) = signals summed

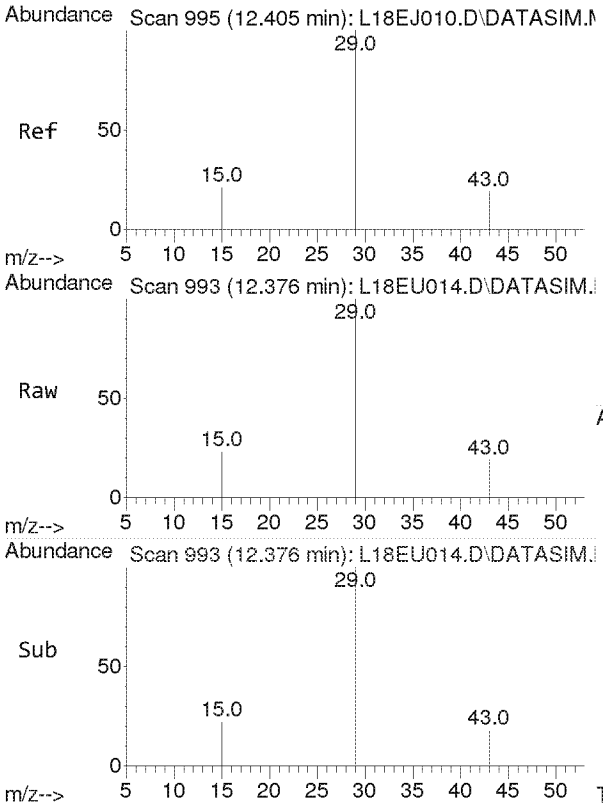
ED_002475_00000165-00045

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU014.D
Acq On : 22 May 2018 3:59 am
Operator : MAH
Sample : B8E2105-DUP5
Misc : WBIL R1 5/16/18
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 22 15:22:34 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

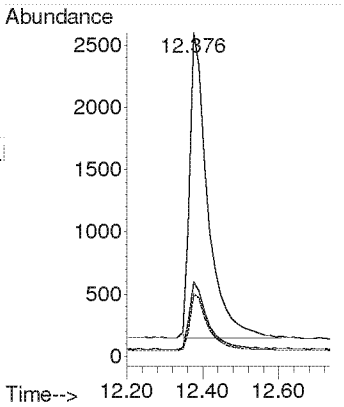




#2
Ethylene Oxide
Concen: 5.712 ppbv m
RT: 12.376 min Scan# 993
Delta R.T. -0.101 min
Lab File: L18EU014.D
Acq: 22 May 2018 3:59 am

Tgt Ion: 29 Resp: 8076

Ion	Ratio	Lower	Upper
29	100		
15	22.5	20.4	30.6
43	19.0	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU015.D
Acq On : 22 May 2018 5:01 am
Operator : MAH
Sample : B8E2105-DUP6
Misc : WBIL R2 5/16/18
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 15:22:56 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31409	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	79434	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	48314	4.7000 ppbv	0.00

System Monitoring Compounds

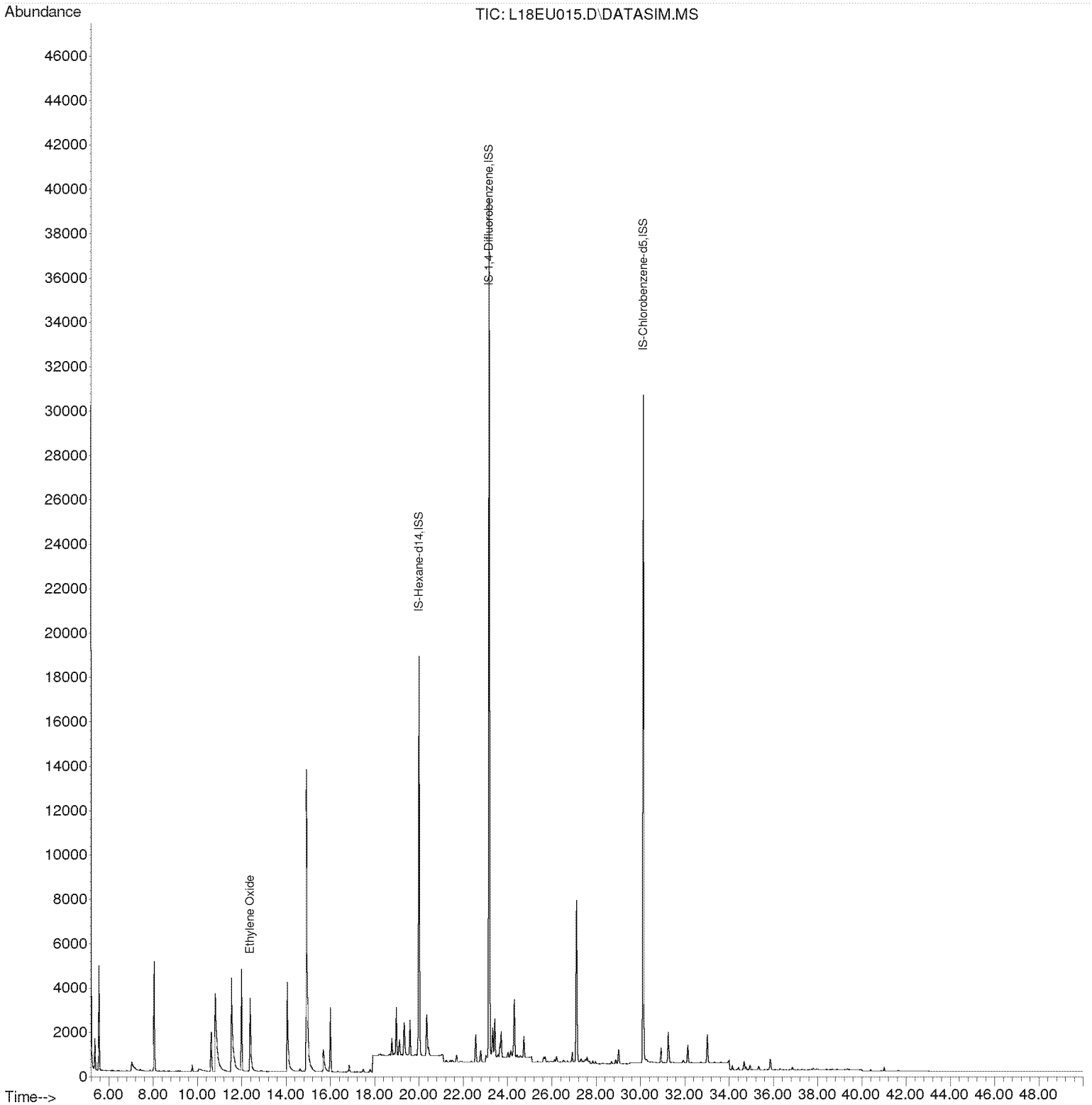
Target Compounds					Qvalue
2) Ethylene Oxide	12.376	29	7830m	5.2407 ppbv	

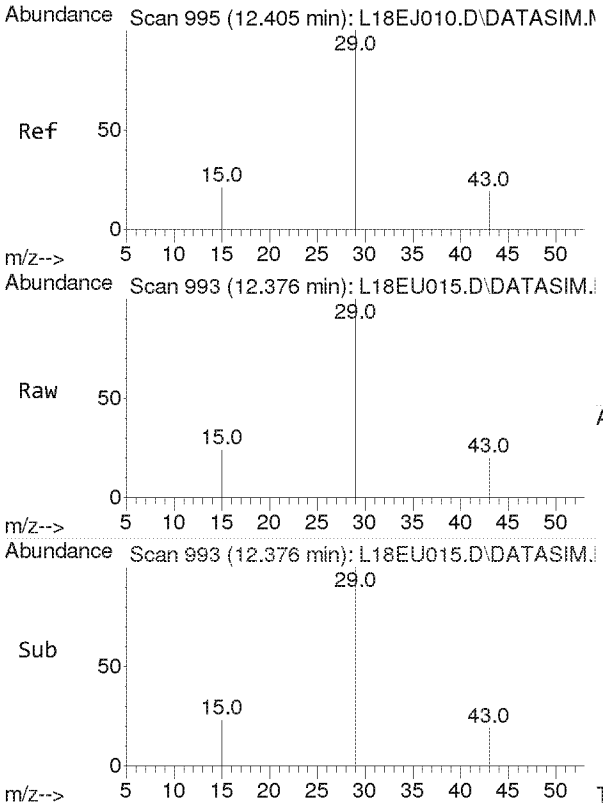
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU015.D
Acq On : 22 May 2018 5:01 am
Operator : MAH
Sample : B8E2105-DUP6
Misc : WBIL R2 5/16/18
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 15:22:56 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

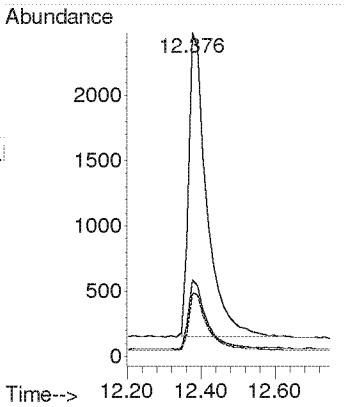




#2
Ethylene Oxide
Concen: 5.241 ppbv m
RT: 12.376 min Scan# 993
Delta R.T. -0.101 min
Lab File: L18EU015.D
Acq: 22 May 2018 5:01 am

Tgt Ion: 29 Resp: 7830

Ion	Ratio	Lower	Upper
29	100		
15	23.2	20.4	30.6
43	19.8	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU016.D
Acq On : 22 May 2018 6:03 am
Operator : MAH
Sample : 8051813-01
Misc : WBIL 5/16/18
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 15:23:07 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32135	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	77196	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	49068	4.7000 ppbv	0.00

System Monitoring Compounds

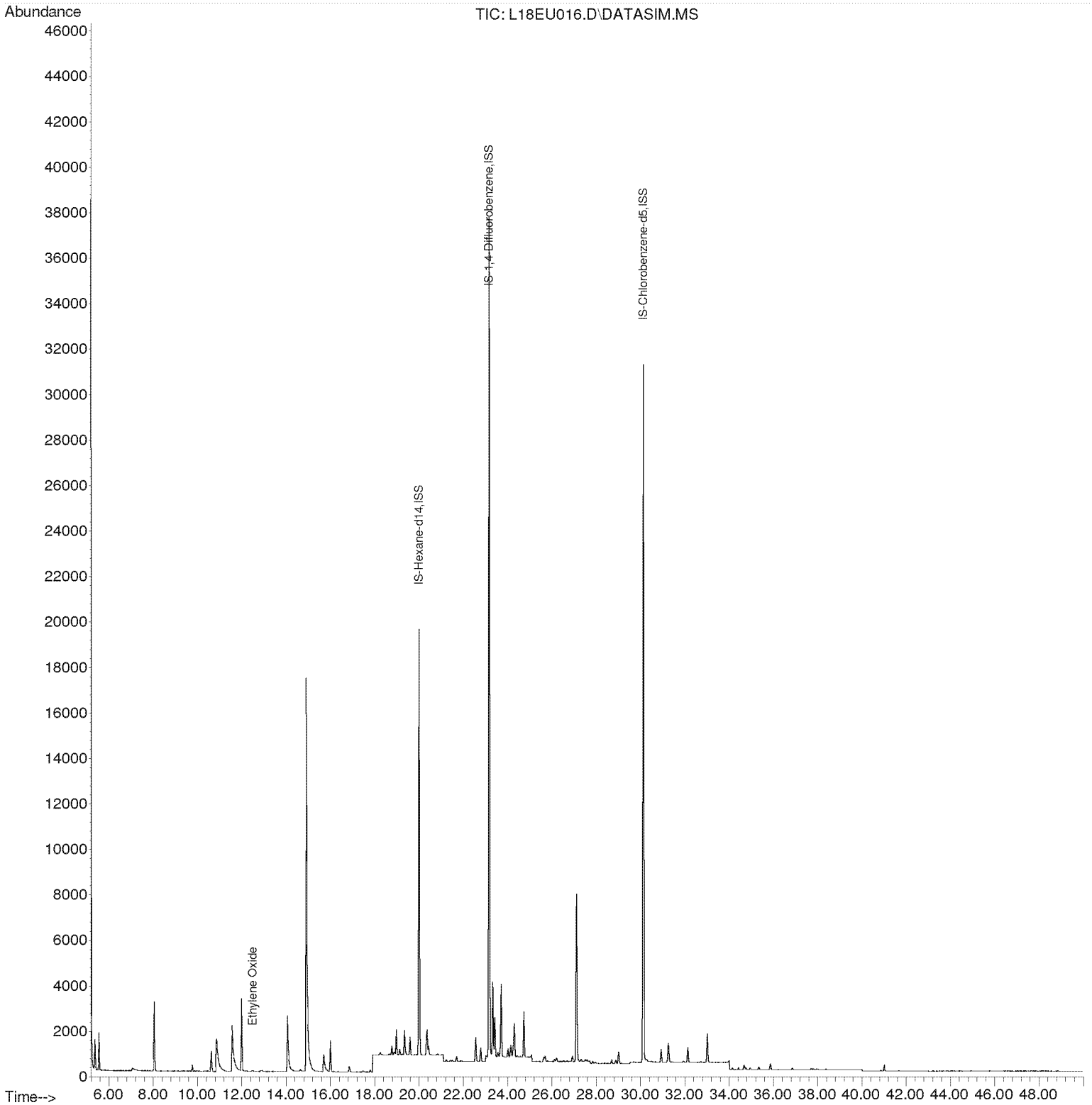
Target Compounds					Qvalue
2) Ethylene Oxide	12.492	29	186	0.1217 ppbv #	90

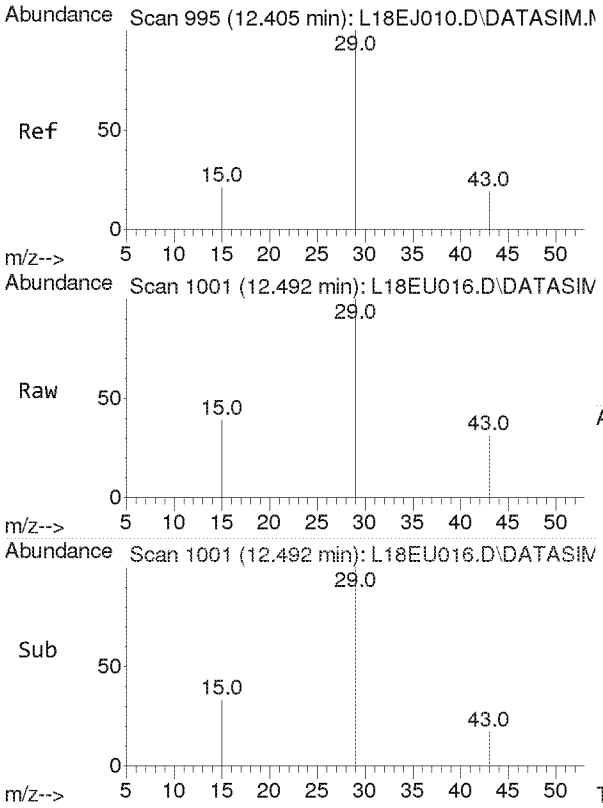
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU016.D
Acq On : 22 May 2018 6:03 am
Operator : MAH
Sample : 8051813-01
Misc : WBIL 5/16/18
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 15:23:07 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

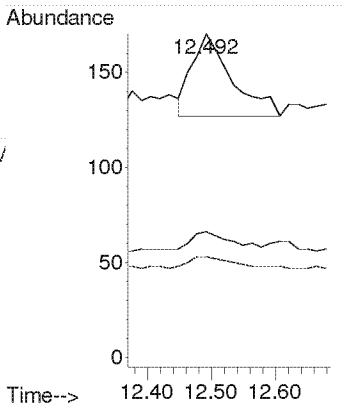




#2
Ethylene Oxide
Concen: 0.122 ppbv
RT: 12.492 min Scan# 1001
Delta R.T. 0.015 min
Lab File: L18EU016.D
Acq: 22 May 2018 6:03 am

Tgt Ion: 29 Resp: 186

Ion	Ratio	Lower	Upper
29	100		
15	31.7	20.4	30.6#
43	16.7	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU017.D
Acq On : 22 May 2018 7:05 am
Operator : MAH
Sample : 8051813-02
Misc : WBIL 5/16/18
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 22 15:23:19 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	33279	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	83016	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	52995	4.7000 ppbv	0.00

System Monitoring Compounds

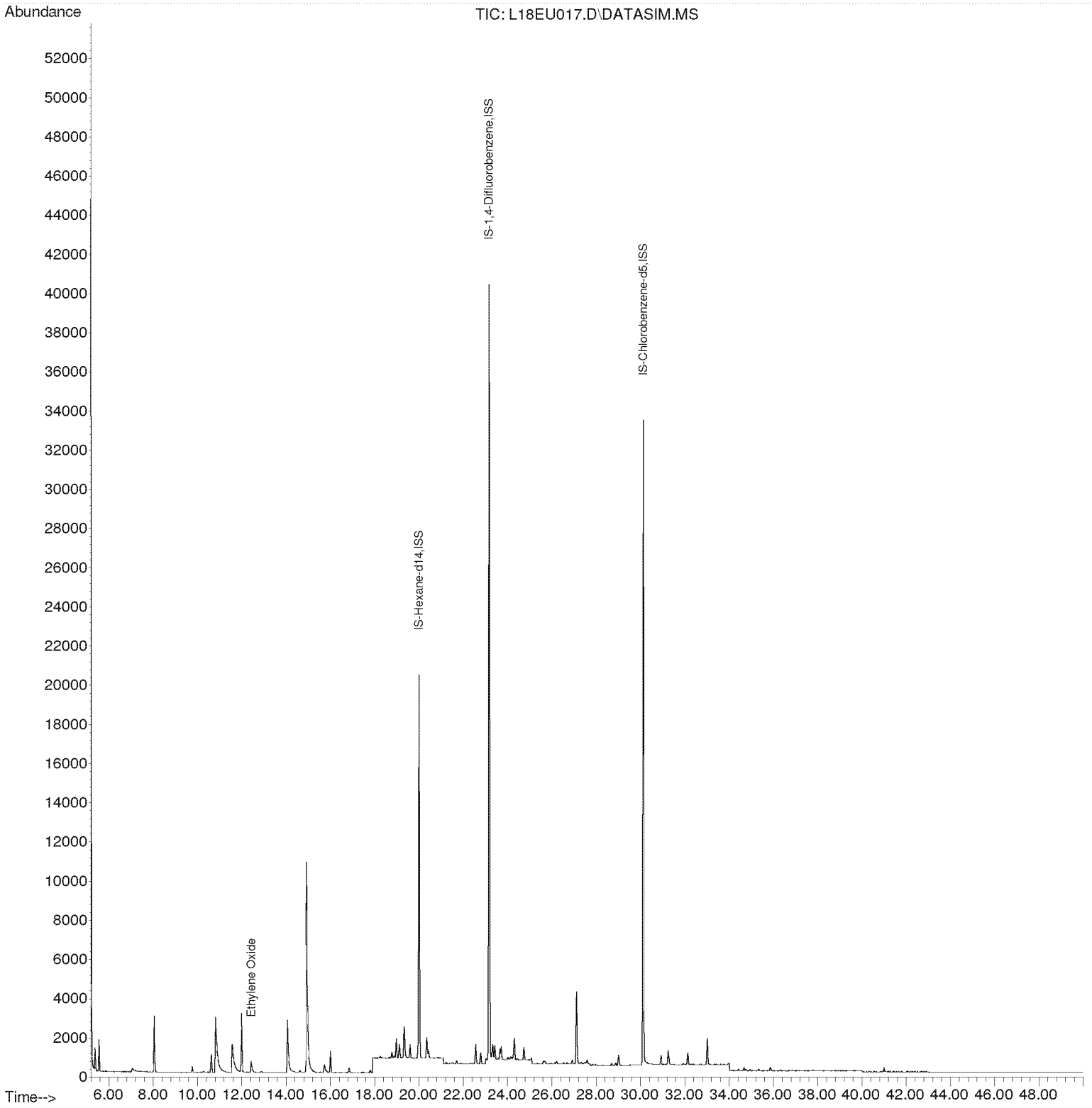
Target Compounds					Qvalue
2) Ethylene Oxide	12.434	29	1373m	0.8673 ppbv	

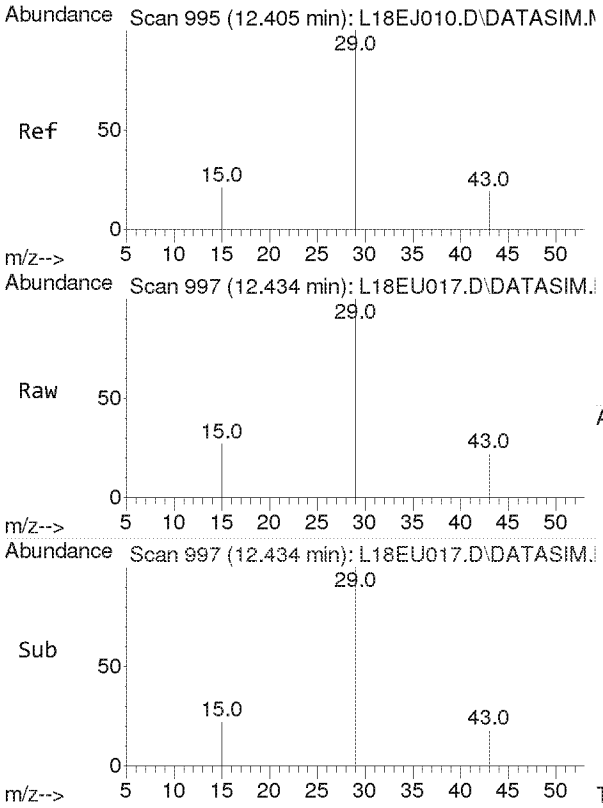
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU017.D
Acq On : 22 May 2018 7:05 am
Operator : MAH
Sample : 8051813-02
Misc : WBIL 5/16/18
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 22 15:23:19 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

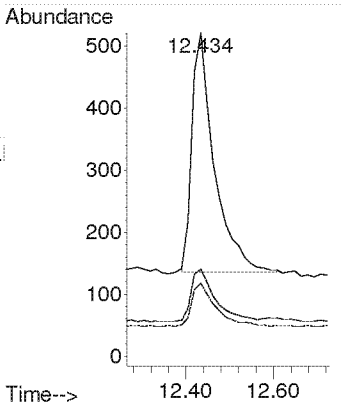




#2
Ethylene Oxide
Concen: 0.867 ppbv m
RT: 12.434 min Scan# 997
Delta R.T. -0.043 min
Lab File: L18EU017.D
Acq: 22 May 2018 7:05 am

Tgt Ion: 29 Resp: 1373

Ion	Ratio	Lower	Upper
29	100		
15	26.3	20.4	30.6
43	19.2	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU018.D
Acq On : 22 May 2018 8:08 am (#1); 22 May 2018 8:03 am (#2)
Operator : MAH
Sample : 8051813-05
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 22 15:23:26 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31243	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	73329	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	47110	4.7000 ppbv	0.00

System Monitoring Compounds

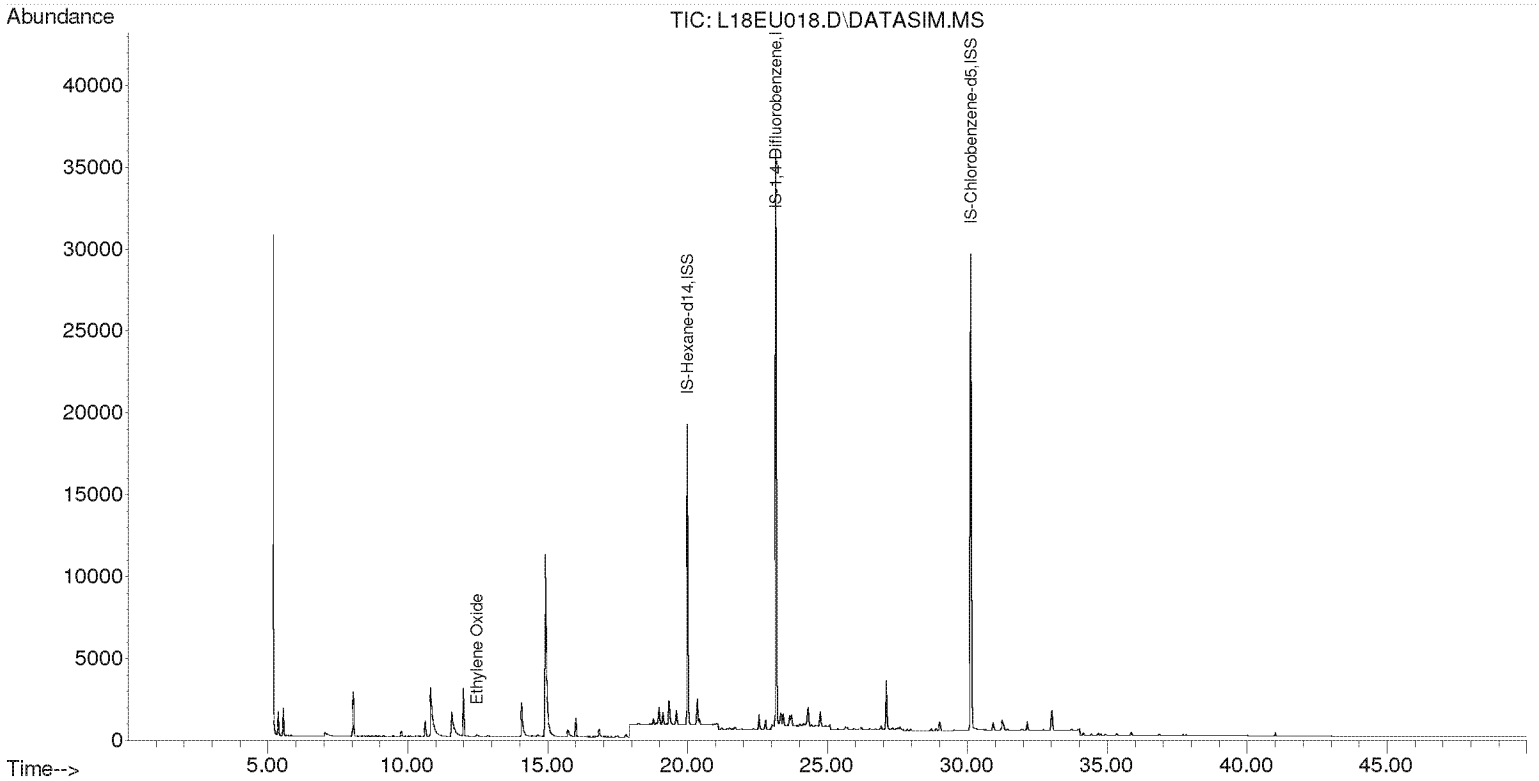
Target Compounds					Qvalue
2) Ethylene Oxide	12.477	29	291m	0.1958 ppbv	

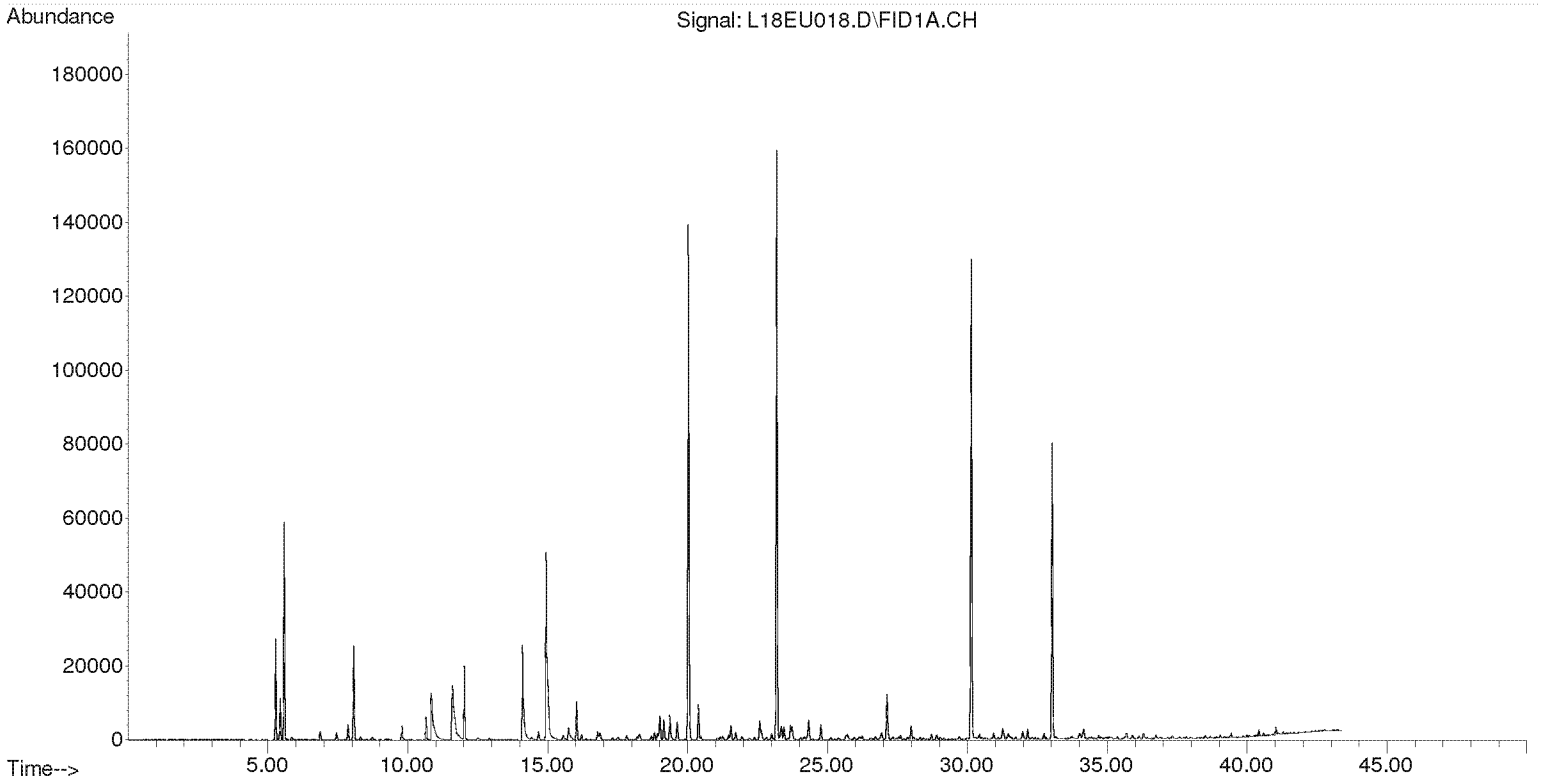
(#) = qualifier out of range (m) = manual integration (+) = signals summed

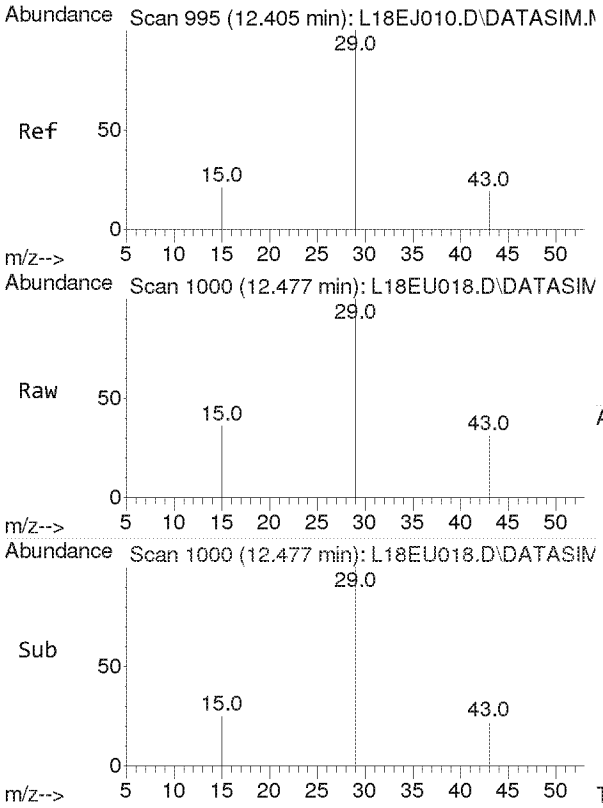
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU018.D
Acq On : 22 May 2018 8:08 am (#1); 22 May 2018 8:03 am (#2)
Operator : MAH
Sample : 8051813-05
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 22 15:23:26 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration



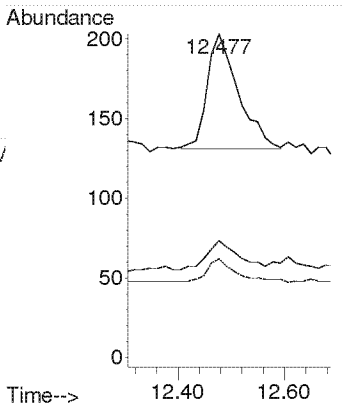




#2
Ethylene Oxide
Concen: 0.196 ppbv m
RT: 12.477 min Scan# 1000
Delta R.T. 0.000 min
Lab File: L18EU018.D
Acq: 22 May 2018 8:08 am

Tgt Ion: 29 Resp: 291

Ion	Ratio	Lower	Upper
29	100		
15	25.4	20.4	30.6
43	19.9	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU019.D
Acq On : 22 May 2018 9:10 am (#1); 22 May 2018 9:05 am (#2)
Operator : MAH
Sample : 8051813-06
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 22 15:23:38 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32779	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	79309	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	49598	4.7000 ppbv	0.00

System Monitoring Compounds

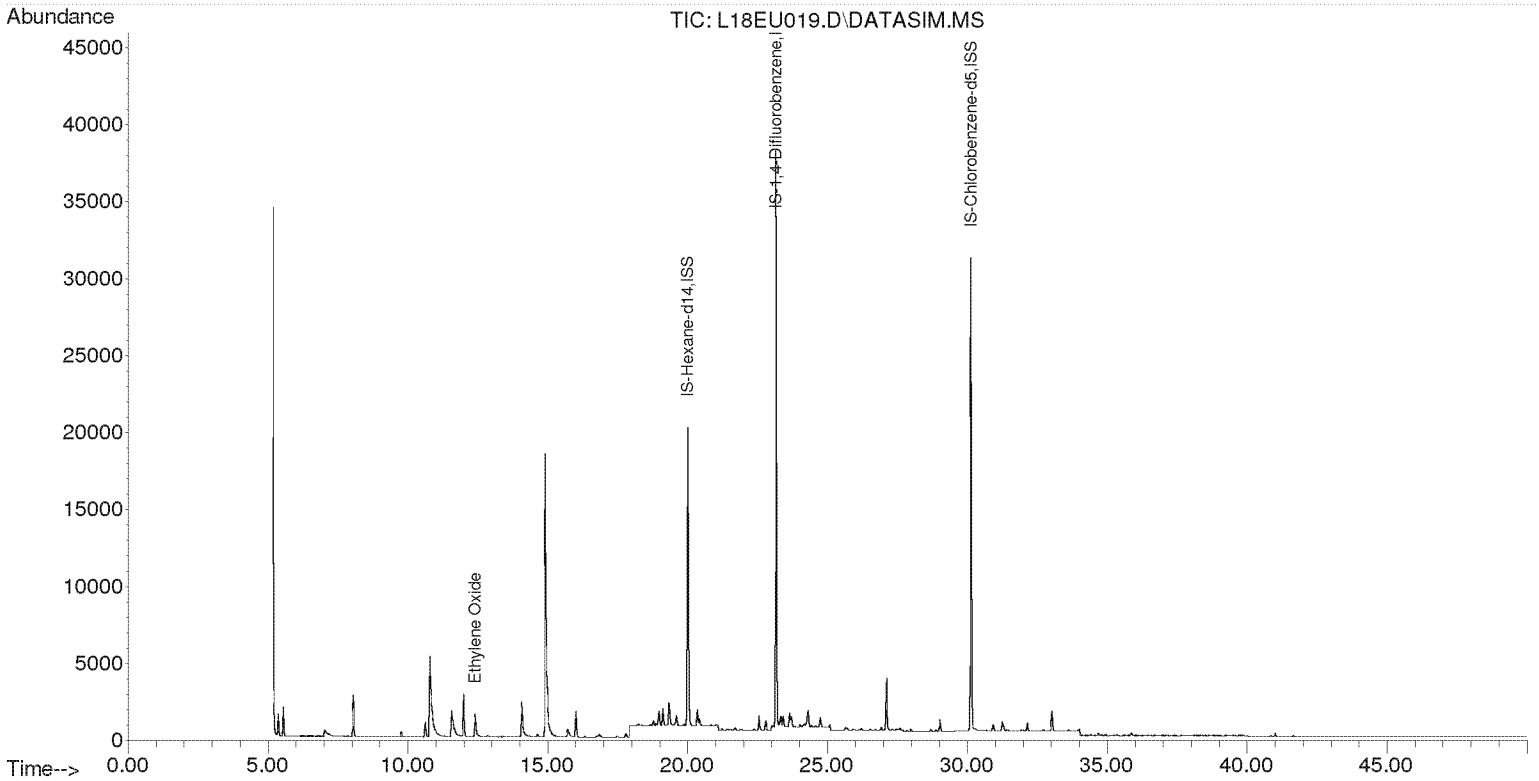
Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	3684m	2.3627 ppbv	

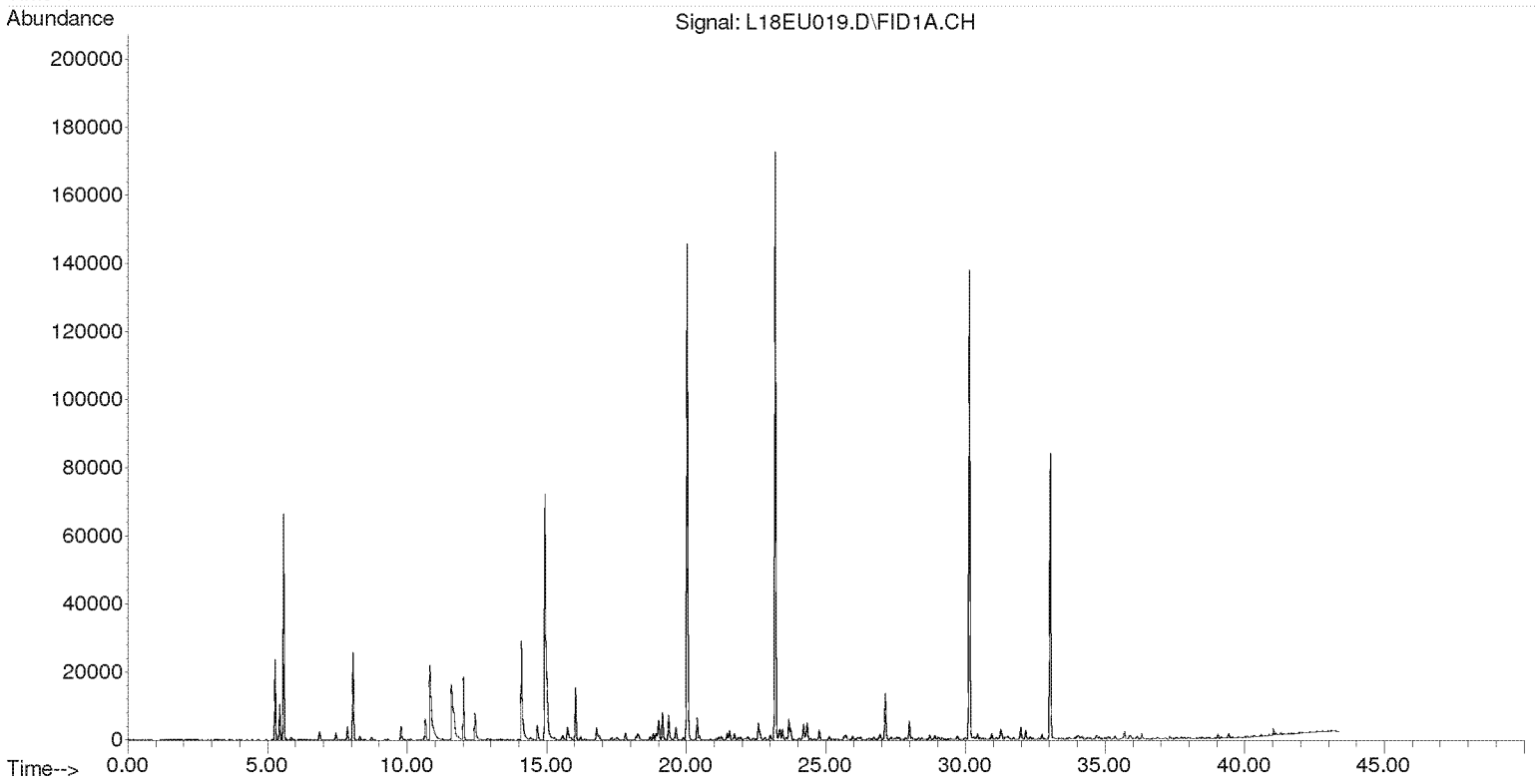
(#) = qualifier out of range (m) = manual integration (+) = signals summed

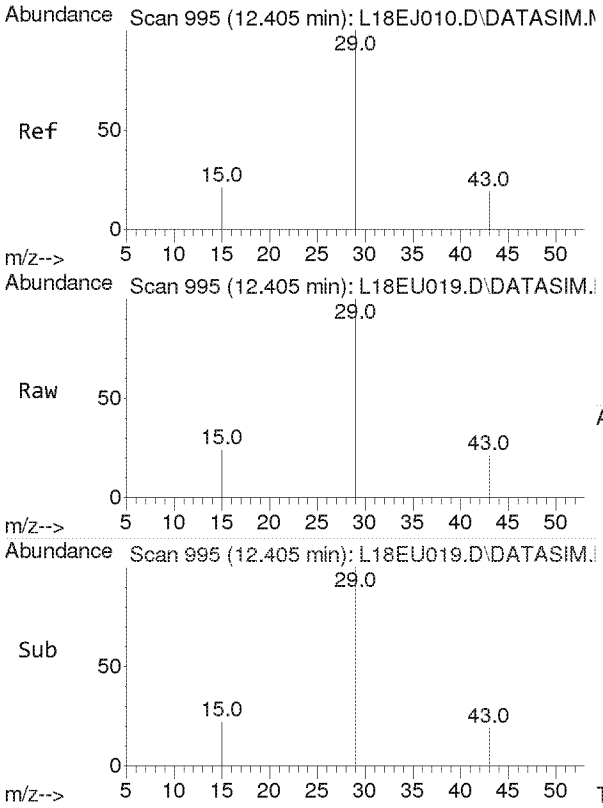
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU019.D
Acq On : 22 May 2018 9:10 am (#1); 22 May 2018 9:05 am (#2)
Operator : MAH
Sample : 8051813-06
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 22 15:23:38 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration



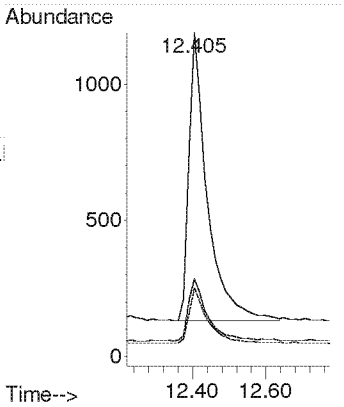




#2
Ethylene Oxide
Concen: 2.363 ppbv m
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EU019.D
Acq: 22 May 2018 9:10 am

Tgt Ion: 29 Resp: 3684

Ion	Ratio	Lower	Upper
29	100		
15	22.5	20.4	30.6
43	19.1	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU020.D
Acq On : 22 May 2018 10:12 am (#1); 22 May 2018 10:07 am (#2)
Operator : MAH
Sample : 8051813-07
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 22 15:23:49 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32748	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	79450	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	47426	4.7000 ppbv	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	3745	2.4041 ppbv	95

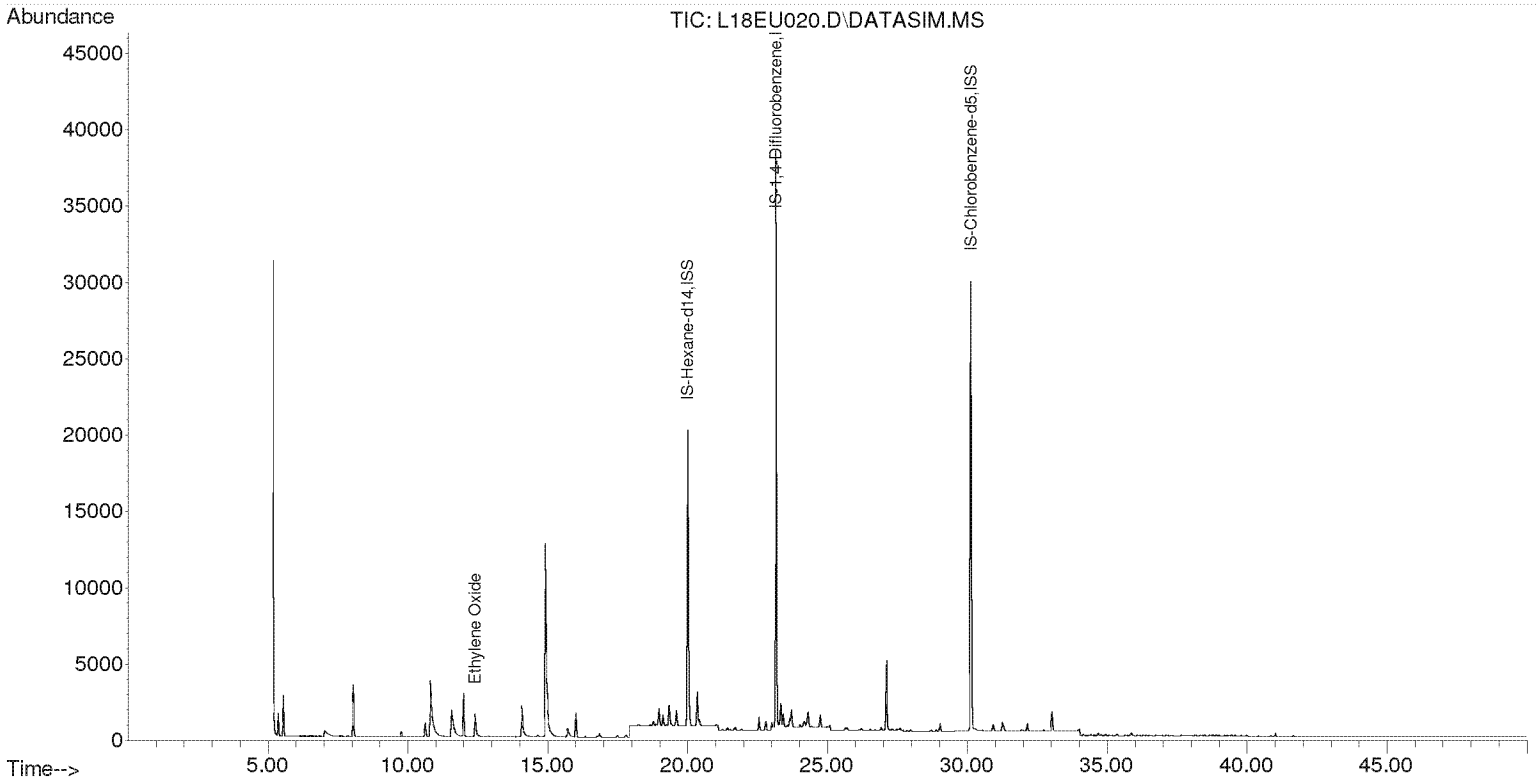
(#) = qualifier out of range (m) = manual integration (+) = signals summed

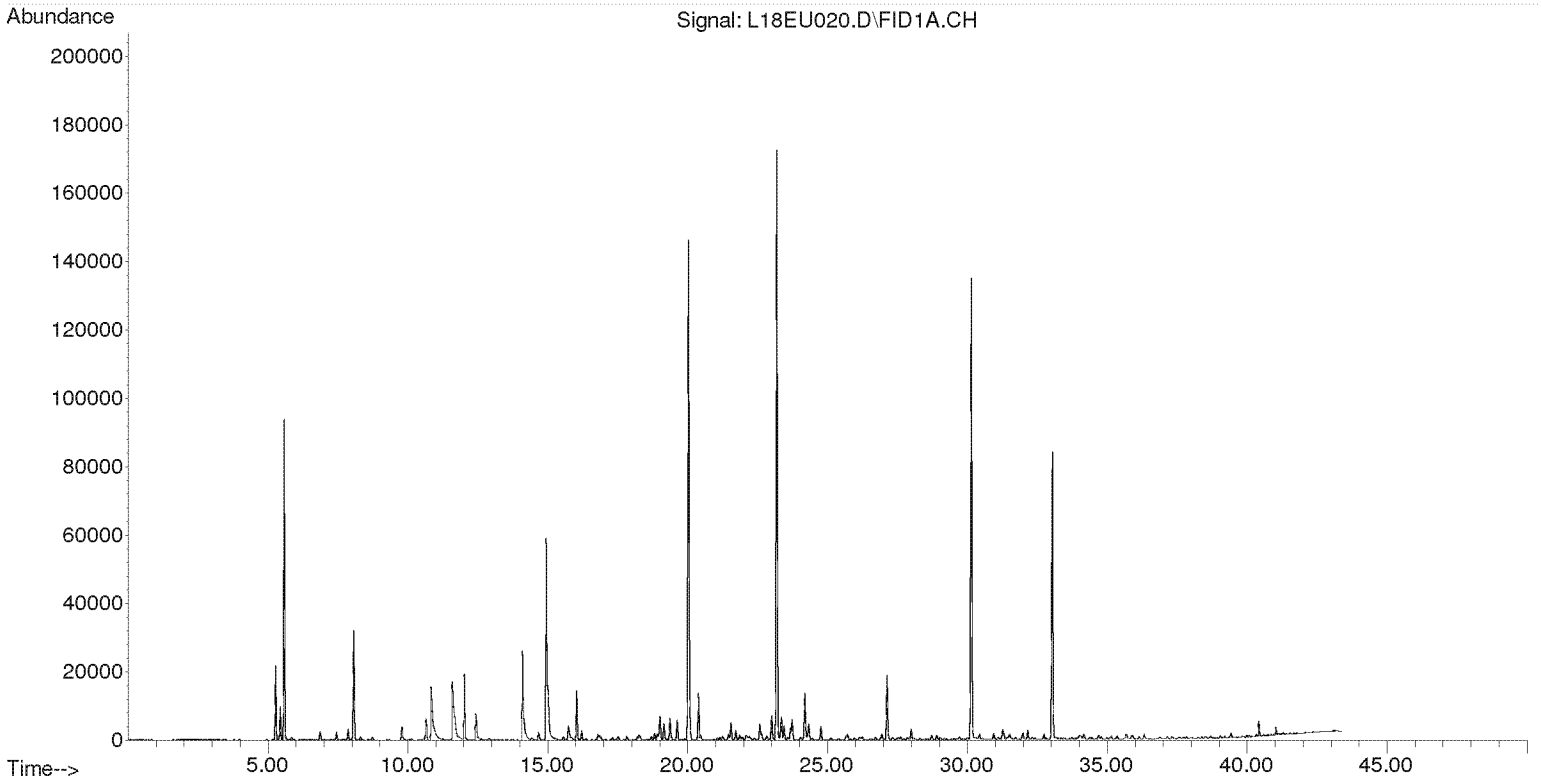
ED_002475_00000165-00063

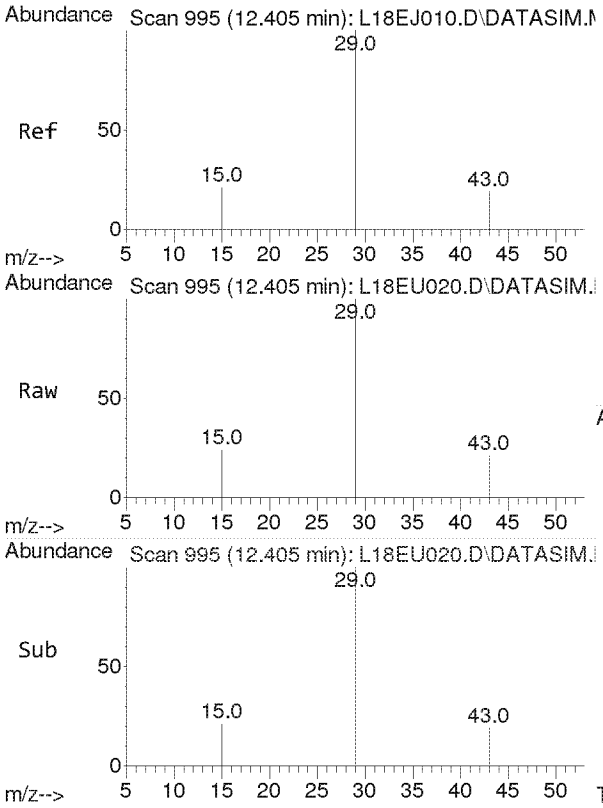
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU020.D
Acq On : 22 May 2018 10:12 am (#1); 22 May 2018 10:07 am (#2)
Operator : MAH
Sample : 8051813-07
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 22 15:23:49 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration



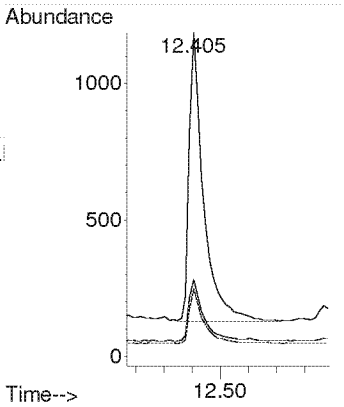




#2
Ethylene Oxide
Concen: 2.404 ppbv
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EU020.D
Acq: 22 May 2018 10:12 am

Tgt Ion: 29 Resp: 3745

Ion	Ratio	Lower	Upper
29	100		
15	22.5	20.4	30.6
43	18.8	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU021.D
Acq On : 22 May 2018 11:15 am (#1); 22 May 2018 11:09 am (#2)
Operator : MAH
Sample : 8051813-10
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 22 15:24:04 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31044	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	73639	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	46088	4.7000 ppbv	0.00

System Monitoring Compounds

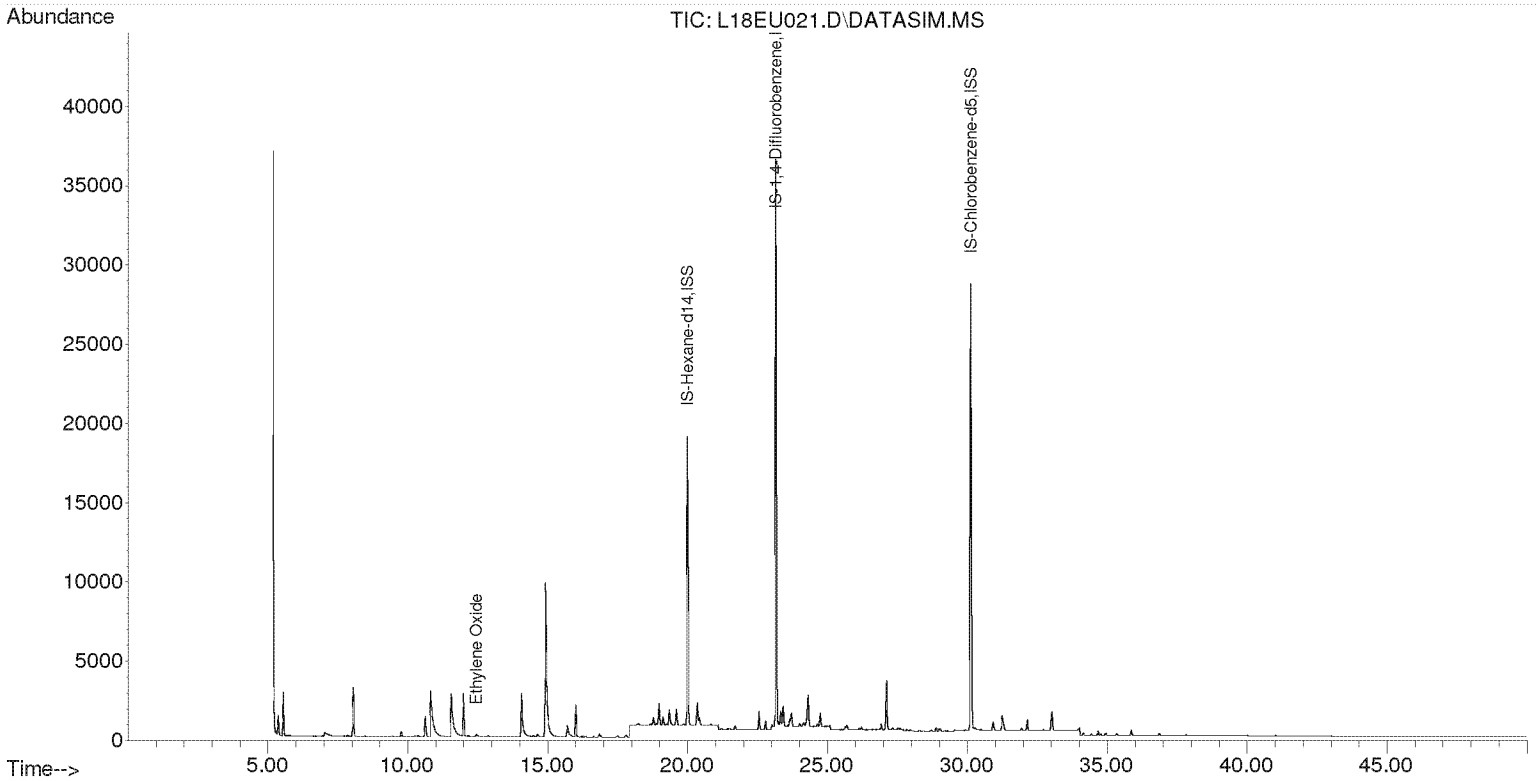
Target Compounds					Qvalue
2) Ethylene Oxide	12.463	29	422	0.2858 ppbv	92

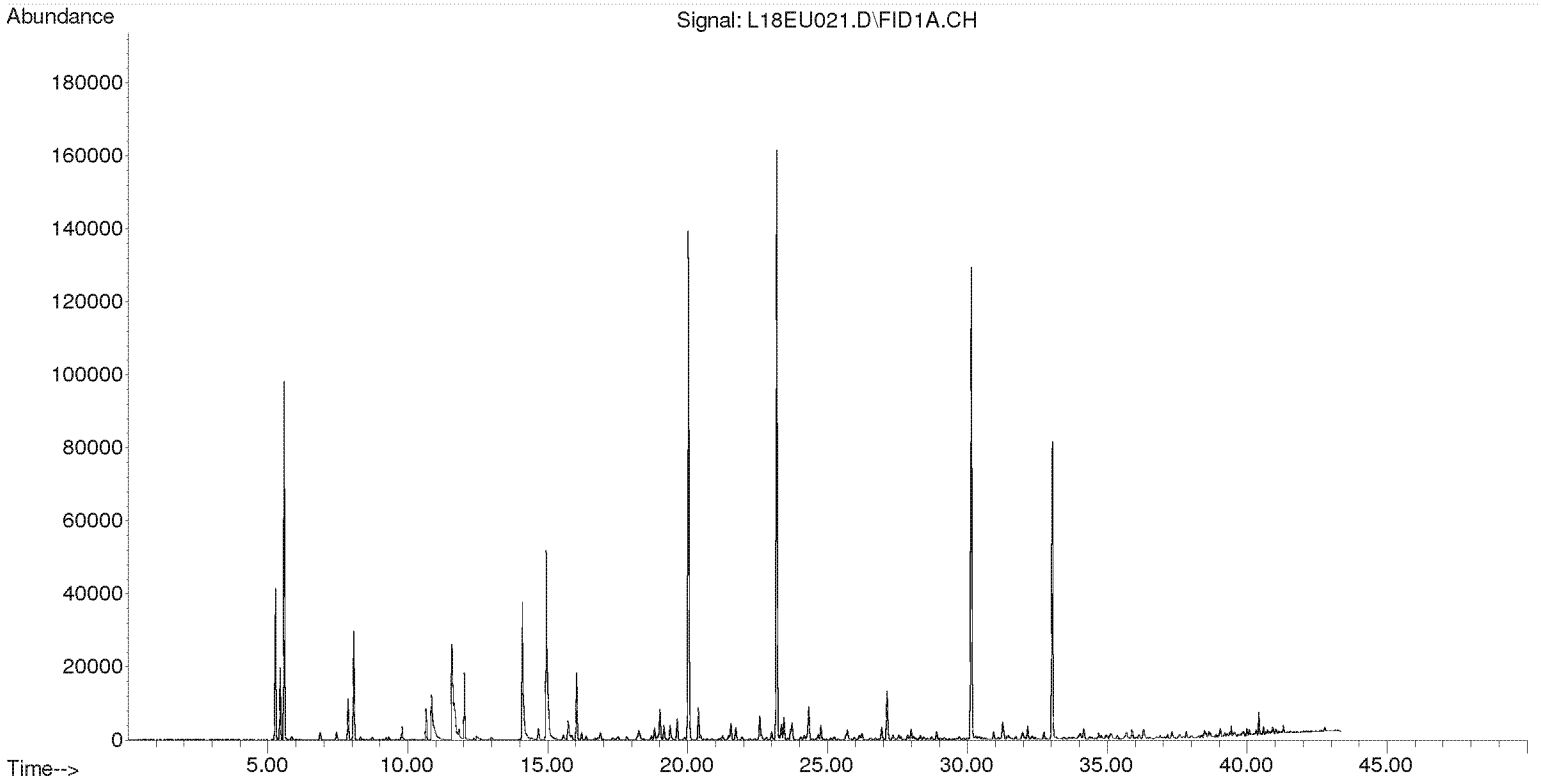
(#) = qualifier out of range (m) = manual integration (+) = signals summed

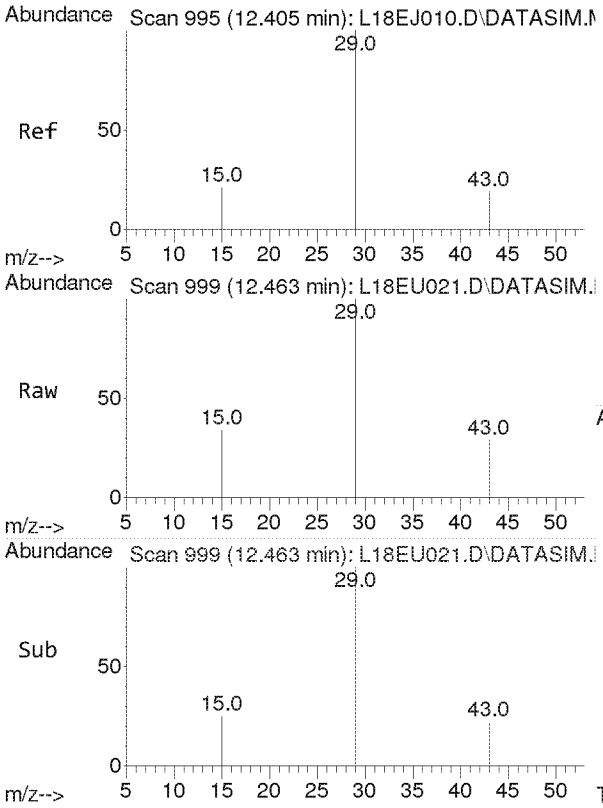
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU021.D
Acq On : 22 May 2018 11:15 am (#1); 22 May 2018 11:09 am (#2)
Operator : MAH
Sample : 8051813-10
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 22 15:24:04 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration



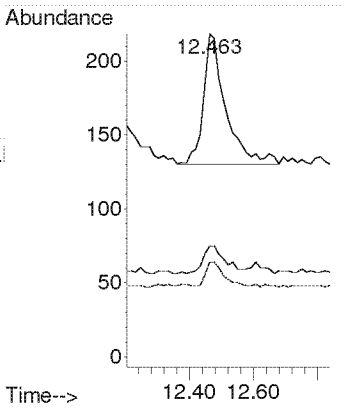




#2
Ethylene Oxide
Concen: 0.286 ppbv
RT: 12.463 min Scan# 999
Delta R.T. -0.014 min
Lab File: L18EU021.D
Acq: 22 May 2018 11:15 am

Tgt Ion: 29 Resp: 422

Ion	Ratio	Lower	Upper
29	100		
15	21.8	20.4	30.6
43	16.6	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU022.D
Acq On : 22 May 2018 12:17 pm (#1); 22 May 2018 12:12 pm (#2)
Operator : MAH
Sample : 8051813-13
Misc : WBIL 5/17/18 (Sig #1); (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 22 15:24:15 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31488	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	75075	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	46189	4.7000 ppbv	0.00

System Monitoring Compounds

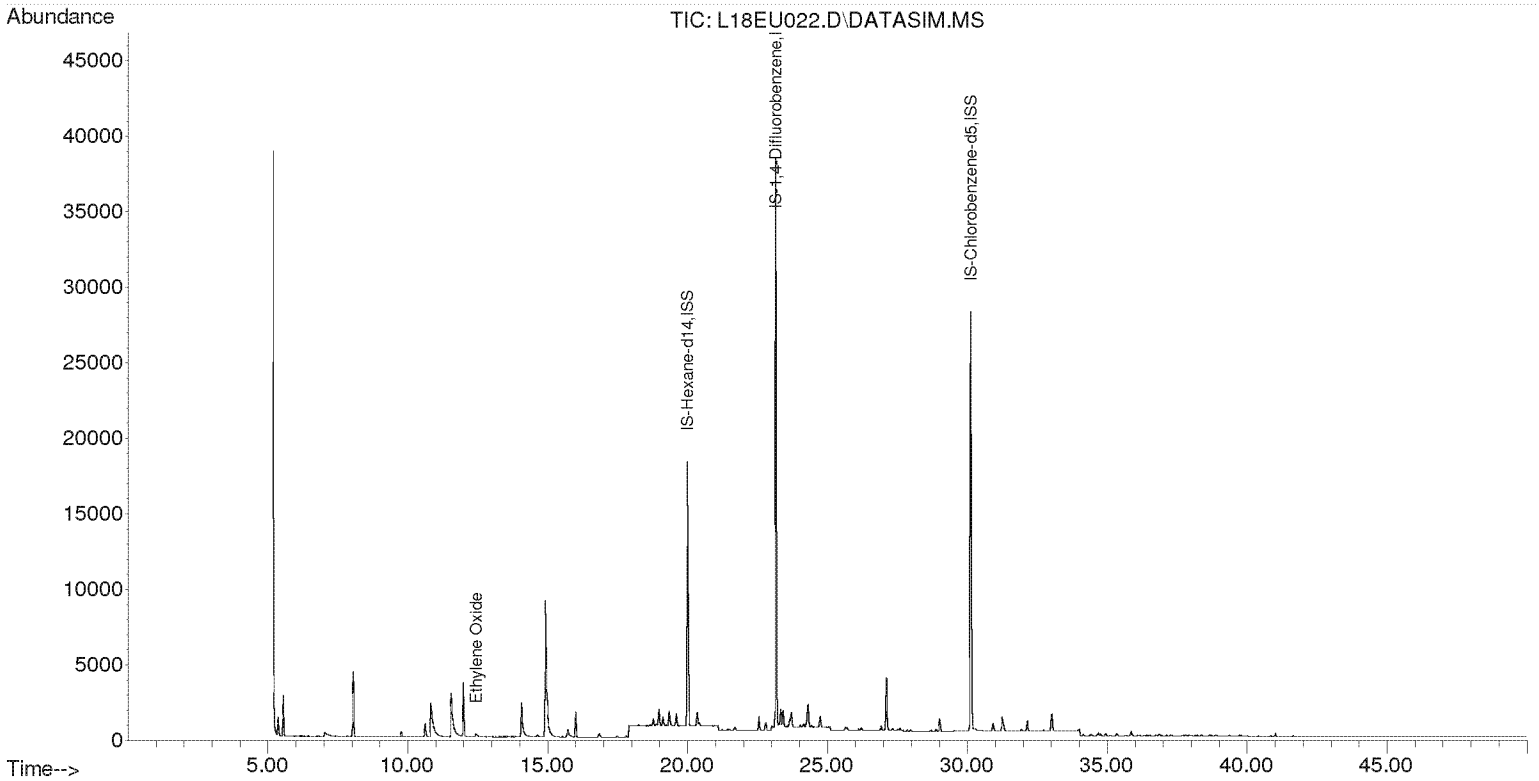
Target Compounds					Qvalue
2) Ethylene Oxide	12.448	29	545m	0.3639 ppbv	

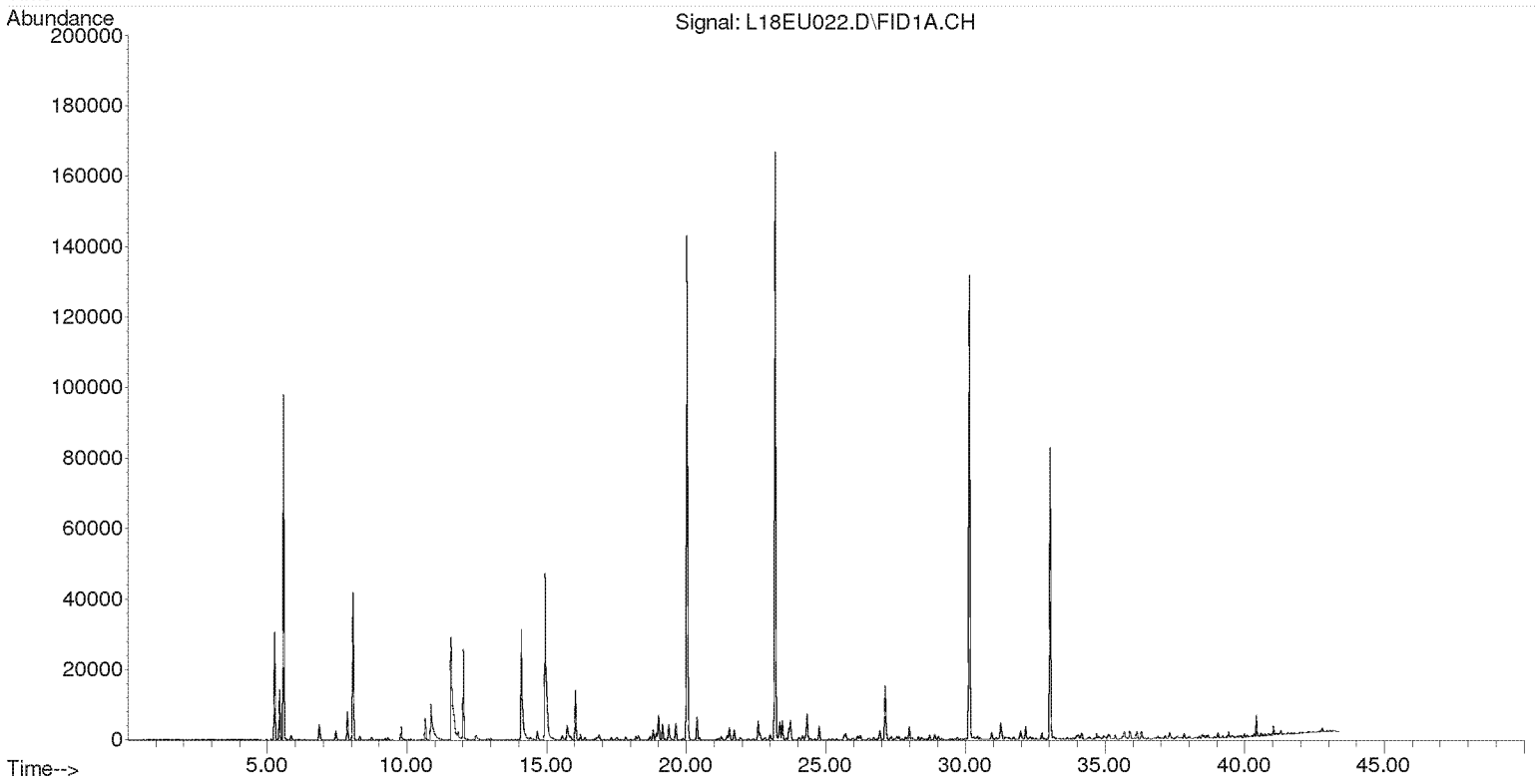
(#) = qualifier out of range (m) = manual integration (+) = signals summed

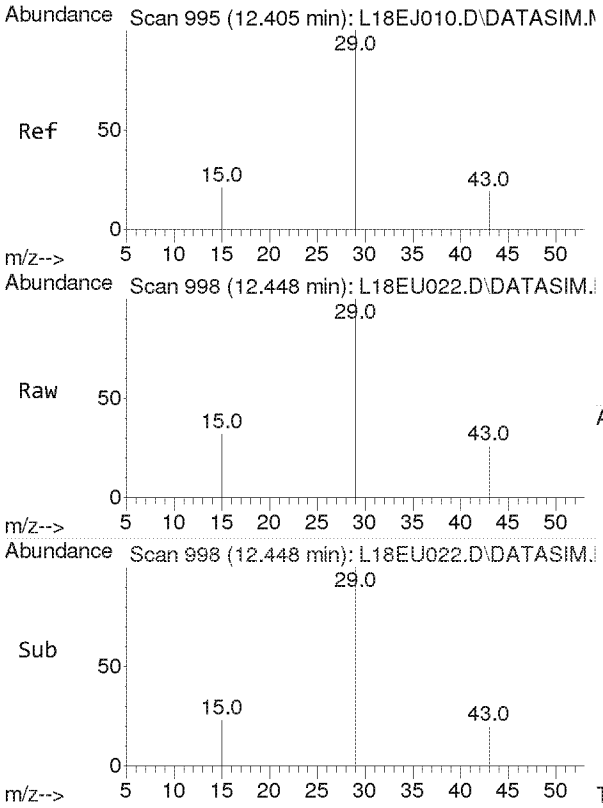
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU022.D
Acq On : 22 May 2018 12:17 pm (#1); 22 May 2018 12:12 pm (#2)
Operator : MAH
Sample : 8051813-13
Misc : WBIL 5/17/18 (Sig #1); (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 22 15:24:15 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration



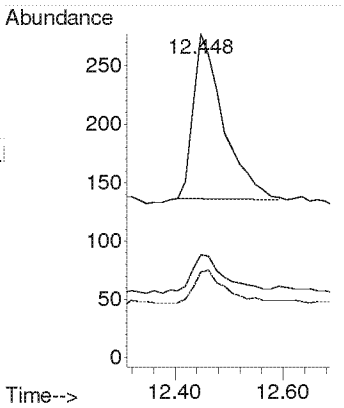




#2
Ethylene Oxide
Concen: 0.364 ppbv m
RT: 12.448 min Scan# 998
Delta R.T. -0.029 min
Lab File: L18EU022.D
Acq: 22 May 2018 12:17 pm

Tgt Ion: 29 Resp: 545

Ion	Ratio	Lower	Upper
29	100		
15	32.1	20.4	30.6#
43	21.1	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU023.D
Acq On : 22 May 2018 1:19 pm (#1); 22 May 2018 1:14 pm (#2)
Operator : MAH
Sample : 8051813-14
Misc : WBIL 5/17/18 (Sig #1); (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 22 15:24:27 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	30545	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	75553	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	46670	4.7000 ppbv	0.00

System Monitoring Compounds

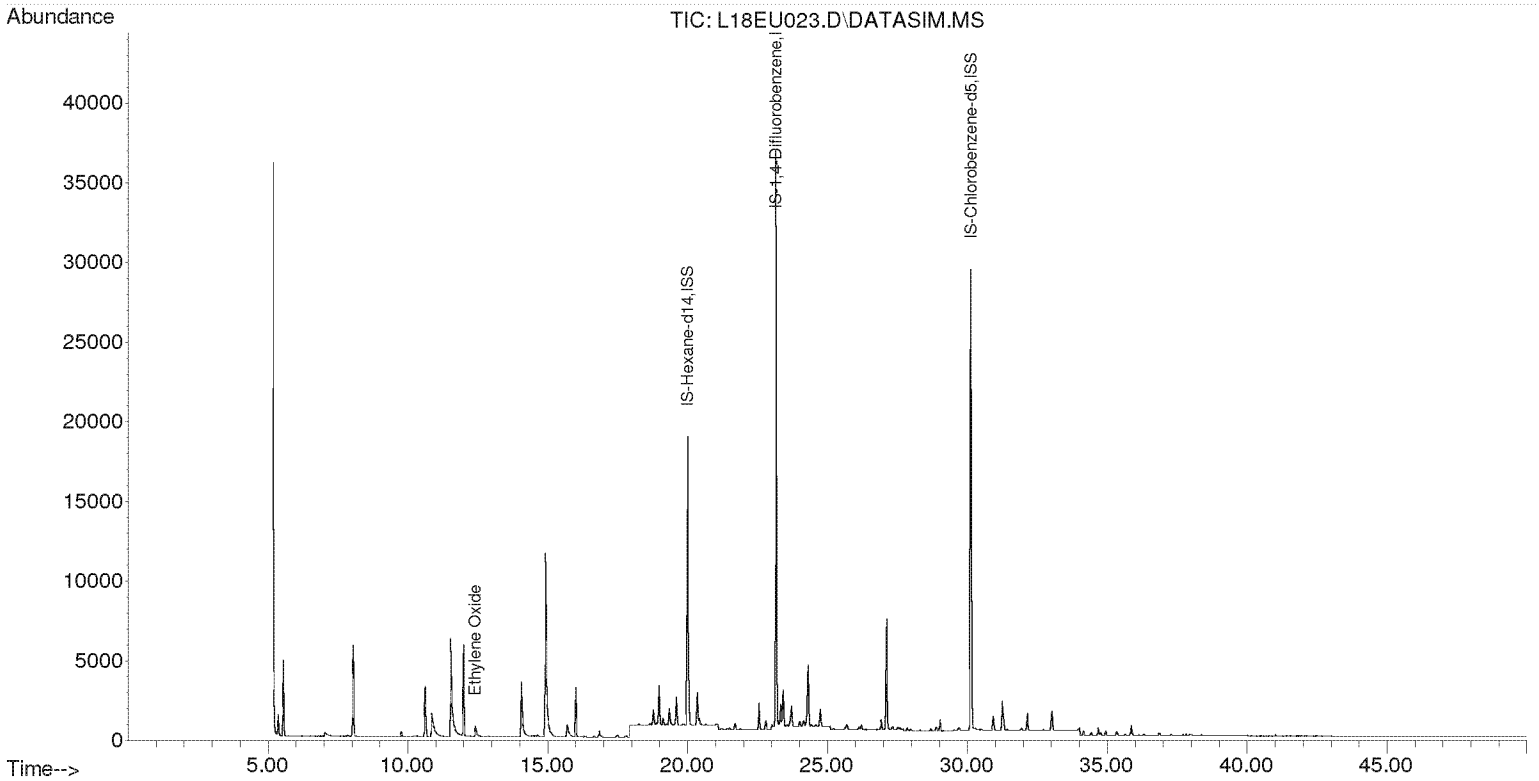
Target Compounds					Qvalue
2) Ethylene Oxide	12.419	29	1697m	1.1680 ppbv	

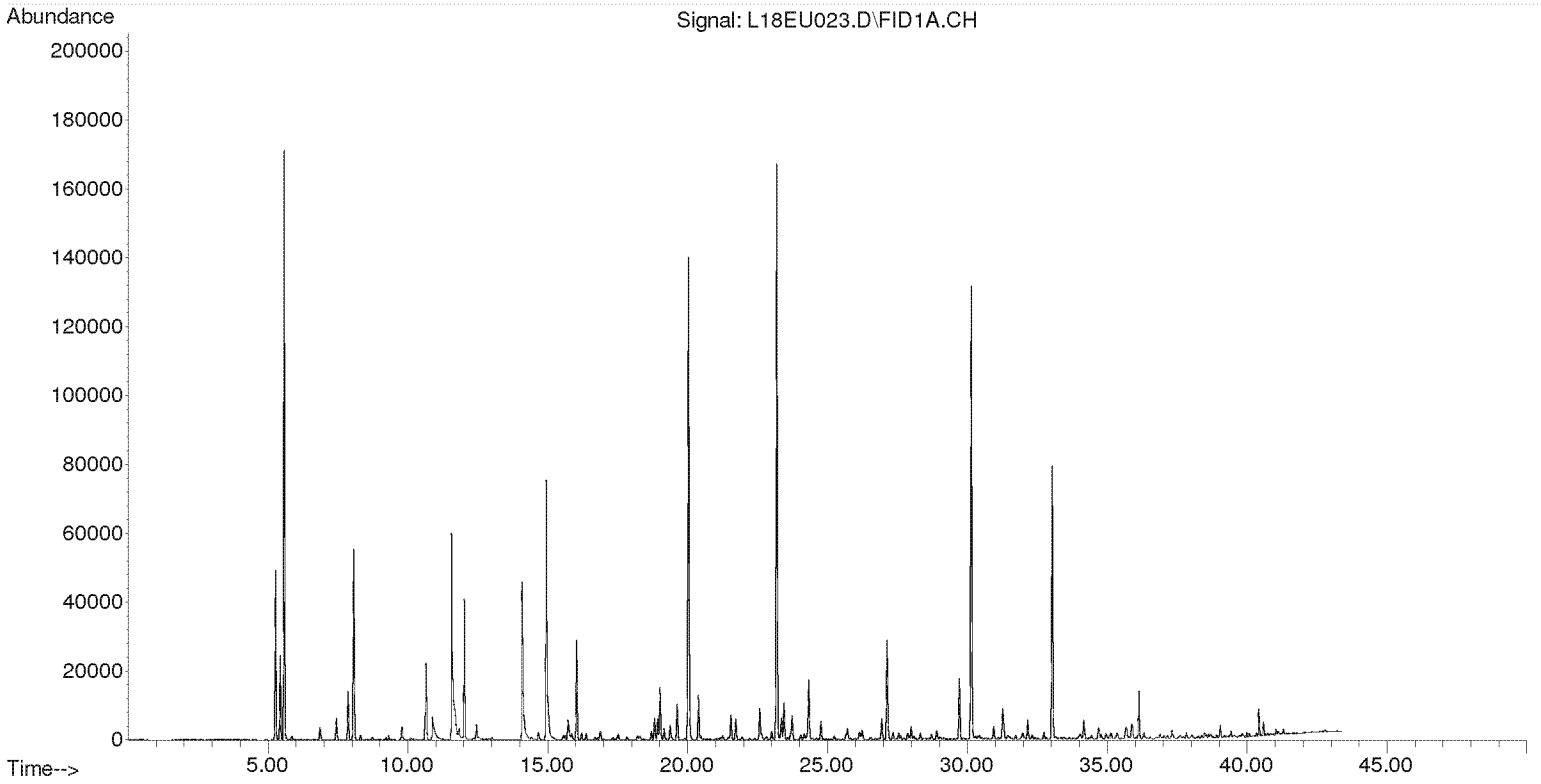
(#) = qualifier out of range (m) = manual integration (+) = signals summed

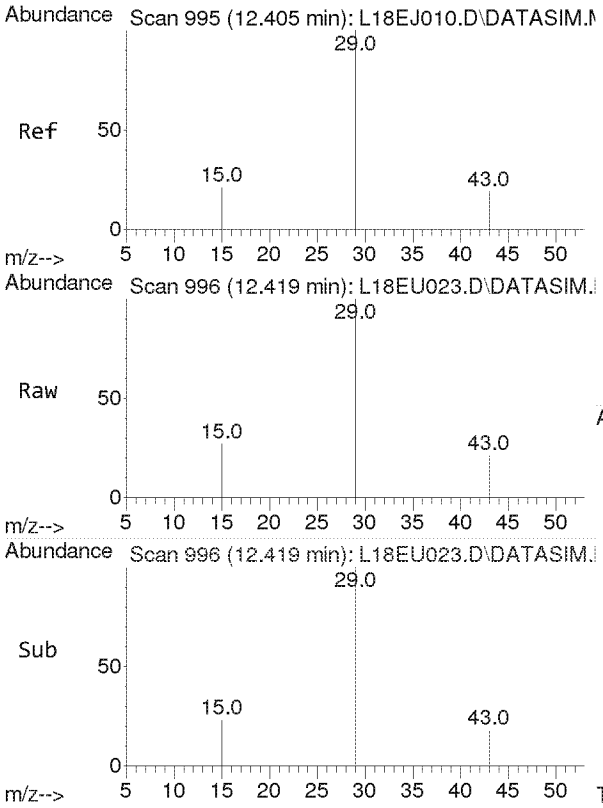
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU023.D
Acq On : 22 May 2018 1:19 pm (#1); 22 May 2018 1:14 pm (#2)
Operator : MAH
Sample : 8051813-14
Misc : WBIL 5/17/18 (Sig #1); (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 22 15:24:27 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration



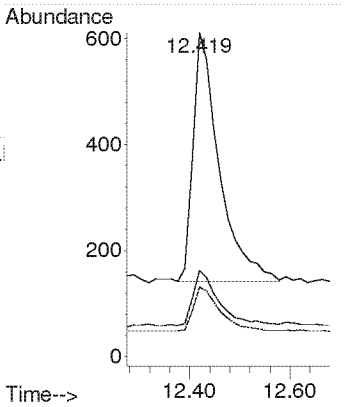




#2
Ethylene Oxide
Concen: 1.168 ppbv m
RT: 12.419 min Scan# 996
Delta R.T. -0.058 min
Lab File: L18EU023.D
Acq: 22 May 2018 1:19 pm

Tgt Ion: 29 Resp: 1697

Ion	Ratio	Lower	Upper
29	100		
15	23.0	20.4	30.6
43	19.0	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU024.D
Acq On : 22 May 2018 2:22 pm (#1); 22 May 2018 2:17 pm (#2)
Operator : MAH
Sample : 8051813-15
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 22 15:24:38 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31344	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	76516	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	47321	4.7000 ppbv	0.00

System Monitoring Compounds

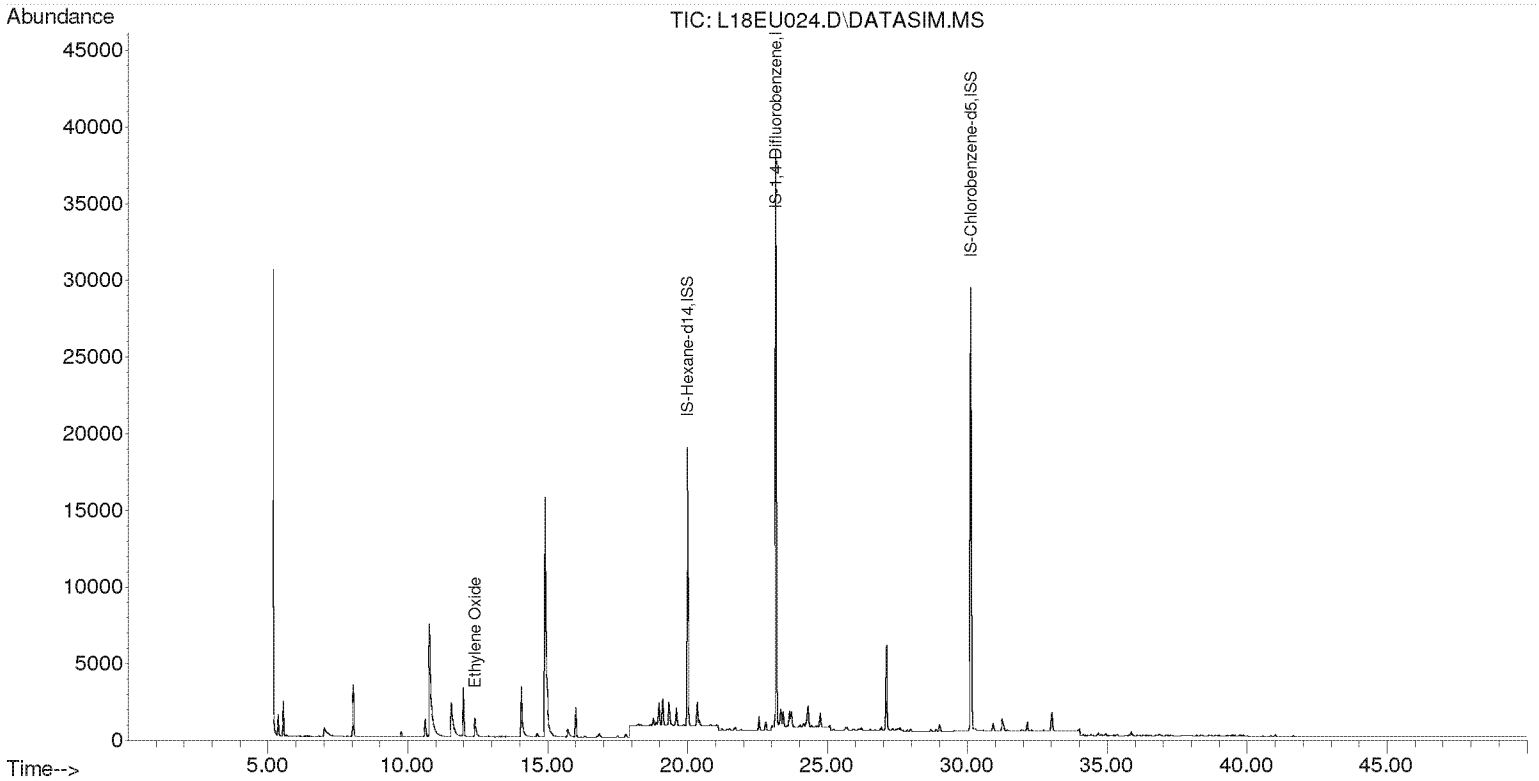
Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	2925m	1.9618 ppbv	

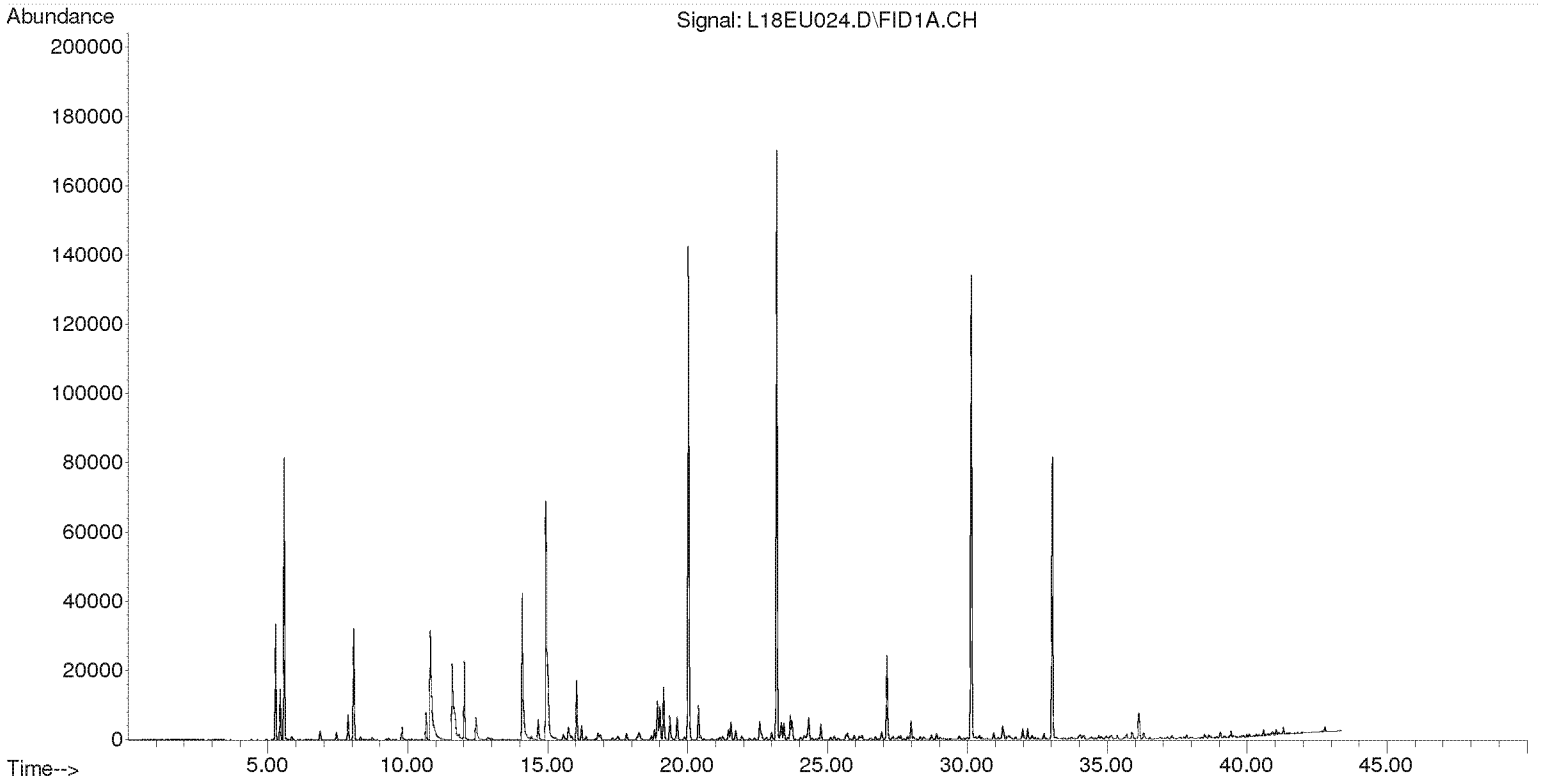
(#) = qualifier out of range (m) = manual integration (+) = signals summed

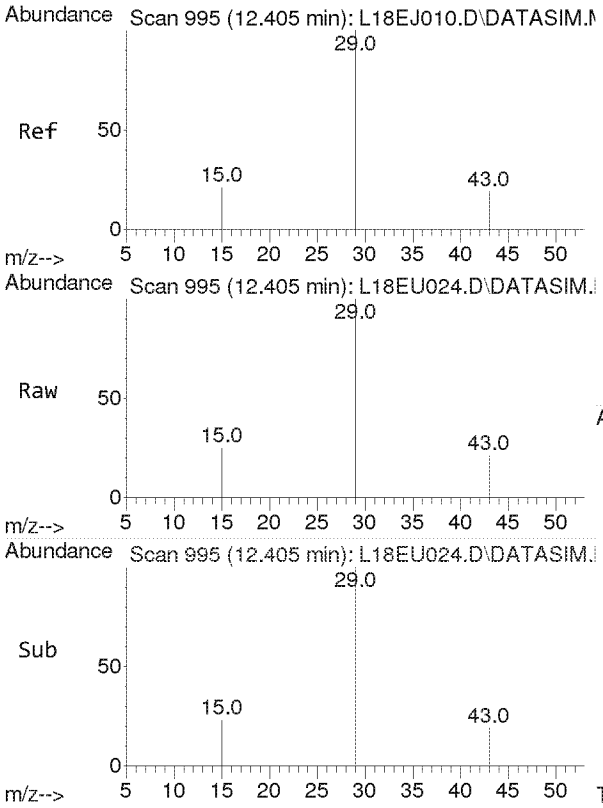
Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EU\
Data File : L18EU024.D
Acq On : 22 May 2018 2:22 pm (#1); 22 May 2018 2:17 pm (#2)
Operator : MAH
Sample : 8051813-15
Misc : WBIL 5/16/18 (Sig #1); (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 22 15:24:38 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Tue May 22 15:19:41 2018
Response via : Initial Calibration



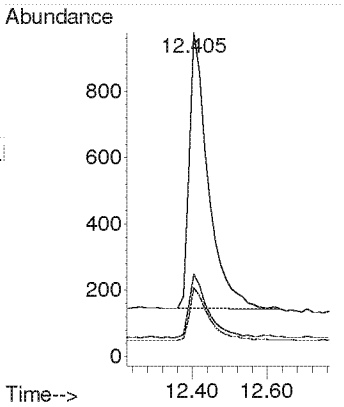




#2
Ethylene Oxide
Concen: 1.962 ppbv m
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EU024.D
Acq: 22 May 2018 2:22 pm

Tgt Ion: 29 Resp: 2925

Ion	Ratio	Lower	Upper
29	100		
15	22.8	20.4	30.6
43	19.8	16.2	24.4



ERG Lab ID # 8C51813-C1

ERG
Eastern Research Group, Inc
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 19644
City/State: WILLOWBROOK, IL Lab Initial Can. Press. ("Hg): 29.7
AQS Code: _____ Cleaning Batch # : H2403
Collection Date: _____ Date Can. Cleaned: 5/3/18
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): N
TOXICS (Y/N): _____ Duplicate Can # : _____
METHANE (Y/N): _____
Relinquished by: RWB Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18
Operator: J. NWIA MFC Setting: _____
System #: _____ Elapsed Timer Reset (Y/N): N
Setup Date: 5/16/18 Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: -29.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 Sample Duration (3 or 24 hr): GRAB
Operator: J. NWIA Elapsed Time: 4 min
Field Final Can. Press.: _____ psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: J. NWIA Date: 5/16/18

Lab Recovery

Received by: M Date: 05/18/2018
Lab Final Can. Press.: 20 psig "Hg (Circle one) Converted to psia: _____
Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7429; LONG: -87.9353; GRAB SAMPLE @ 12:29 P.M
AMBIENT TEMP = 78°

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Eastern Research Group, Inc.

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 8051813-02

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: SAT094

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-403

Collection Date: _____ Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J.NUIA Date: 5/15/18

Operator: J.NUIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): N

Setup Date: 5/16/18 Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 Sample Duration (3 or 24 hr): Grab

Operator: J.NUIA Elapsed Time: 4 min

Field Final Can. Press.: 0 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: J.NUIA Date: 5/16/18

Lab Recovery

Received by: AT Date: 05/18/2018

Lab Final Can. Press.: 2.0 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7471; LONG: -87.9420; GRAB SAMPLE @ 12:37pm
AMBIENT TEMP = 78°

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813.03

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____
City/State: WILLOWBROOK, IL
AQS Code: _____
Collection Date: 5/16/18
Options:
SNMOC (Y/N): _____
TOXICS (Y/N): _____
METHANE (Y/N): _____
Relinquished by: RMB
Date: 5/11/18

Canister Number: SAT169
Lab Initial Can. Press. ("Hg): 29.7
Cleaning Batch # : H2403
Date Can. Cleaned: 5/3/18
Duplicate Event (Y/N): Y
Duplicate Can # : A21056

Field Setup

Received by: J. NWIA
Date: 5/15/18
Operator: J. NWIA
System #: _____
Setup Date: 5/16/18
Field Initial Can. Press.: -29 psig psia "Hg (Circle one)

MFC Setting: _____
Elapsed Timer Reset (Y/N): N
Canister Valve Opened (Y/N): Y

Field Recovery

Recovery Date: 5/16/18
Operator: NWIA
Field Final Can. Press.: Ø psig psia "Hg (Circle one)
Status: VALID VOID (Circle one)
Relinquished by: J. NWIA
Date: 5/16/18

Sample Duration (3 or 24 hr): GRAB
Elapsed Time: 1 min
Canister Valve Closed (Y/N): Y

Lab Recovery

Received by: AT
Date: 05/18/2018
Lab Final Can. Press.: 2.5 psig "Hg (Circle one)
Converted to psia: _____
Status: VALID VOID (Circle one)
Gauge: 1 2 (Circle one)
If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7450; LONG: -87.9454; GRAB SAMPLE @ 12:57PM
AMBIENT TEMP = 78°; DUPLICATE TO A21056

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813 C4

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: A21056
City/State: _____ Lab Initial Can. Press. ("Hg): 24.7
AQS Code: _____ Cleaning Batch # : H2403
Collection Date: _____ Date Can. Cleaned: 5/3/18
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): Y
TOXICS (Y/N): _____ Duplicate Can # : SAT 169
METHANE (Y/N): _____
Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18
Operator: J. NWIA MFC Setting: _____
System #: _____ Elapsed Timer Reset (Y/N): N
Setup Date: 5/16/18 Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: 29.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 Sample Duration (3 or 24 hr): GRAB
Operator: J NWIA Elapsed Time: <1 min
Field Final Can. Press.: Ø psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: J. NWIA Date: 5/16/18

Lab Recovery

Received by: M Date: 05/18/2018
Lab Final Can. Press.: 2.5 psig "Hg (Circle one) Converted to psia: _____
Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7450; LONG: -87.9454; GRAB SAMPLE @ 12:50 PM
AMBIENT TEMP = 78°; DUPLICATE TO SAT 169

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813-05

ERG
Eastern Research Group, Inc
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: SATC61

City/State: WILLOWBROOK, IL Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-403

Collection Date: 5/16/18 Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18

Operator: J. NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): N

Setup Date: 5/16/18 Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 Sample Duration (3 or 24 hr): GRAB

Operator: J. NWIA Elapsed Time: 1 min

Field Final Can. Press.: 0 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: J. NWIA Date: 5/16/18

Lab Recovery

Received by: [illegible] Date: 05/18/2018

Lab Final Can. Press.: 25 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7426; LONG: -87.9461; ~~LAT 41.7456, LONG -87.9454~~; GRAB SAMPLE @ 1:04PM AMBIENT TEMP = 79°;

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813-06

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5132
City/State: _____ Lab Initial Can. Press. ("Hg): 29.7
AQS Code: _____ Cleaning Batch # : H2-463
Collection Date: _____ Date Can. Cleaned: 5/3/18
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): N
TOXICS (Y/N): _____ Duplicate Can # : _____
METHANE (Y/N): _____
Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: JNWIA Date: 5/15/18
Operator: J.NWIA MFC Setting: _____
System #: _____ Elapsed Timer Reset (Y/N): N
Setup Date: 5/14/18 Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: ~~[illegible]~~ -28 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/14/18 Sample Duration (3 or 24 hr): GRAB
Operator: J.NWIA Elapsed Time: 4 min
Field Final Can. Press.: Ø psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: J.NWIA Date: 5/14/18

Lab Recovery

Received by: [illegible] Date: 05/18/2018
Lab Final Can. Press.: 7.0 psig "Hg (Circle one) Converted to psia: _____
Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7490; LONG: -87.9423; GRAB SAMPLE @ 1:12PM; AMBIENT TEMP = 78°
* PRESSURE GAUGE NOT SECURE/SNUG WHEN RECORDING INITIAL PRESSURE.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Eastern Research Group, Inc.

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 805813-07

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: SAT085

City/State: WILLOWBROOK, IL Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-403

Collection Date: 5/16/18 Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: [illegible] Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18

Operator: J. NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): N

Setup Date: 5/16/18 Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 Sample Duration (3 or 24 hr): GRAB

Operator: J. NWIA Elapsed Time: <1 min

Field Final Can. Press.: Ø psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: J. NWIA Date: 5/16/18

Lab Recovery

Received by: [illegible] Date: 05/18/2018

Lab Final Can. Press.: 26 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7483; LONG: -87.9459; GRAB SAMPLE @ 1:26PM
AMBIENT TEMP = 78°

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 8051813-08

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 19277
City/State: WILLOWBROOK, IL Lab Initial Can. Press. ("Hg): 29.7
AQS Code: _____ Cleaning Batch # : H2-403
Collection Date: 5/16/18 Date Can. Cleaned: 5/3/18
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): Y
TOXICS (Y/N): _____ Duplicate Can # : SAT 166
METHANE (Y/N): _____
Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18
Operator: Justin Cauthen / Margaret Sieffert MFC Setting: _____
System #: _____ Elapsed Timer Reset (Y/N): _____
Setup Date: 5/16/18 6:56 AM Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: -29½ psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 5:09 PM Sample Duration (3 or 24 hr): _____
Operator: Margaret Sieffert Elapsed Time: 10 hr. 13 min
Field Final Can. Press.: -9 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: M Sieffert Date: 5/16/18

Lab Recovery

Received by: A1 Date: 05/18/2018
Lab Final Can. Press.: 10.00 psig "Hg (Circle one) Converted to psia: _____
Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7474; LONG: -87.9385; DUPLICATE ON ROOF w/ SAT 166

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813 09

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: SAT166

City/State: WILLOWBROOK, IL Lab Initial Can. Press. ("Hg): 29.7

AQS Code: – Cleaning Batch # : H2403

Collection Date: 5/16/18 Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): Y

TOXICS (Y/N): _____ Duplicate Can # : 19277

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J. MWIA Date: 5/15/18

Operator: Justin Coyle / Margaret Suffert MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/16/18 6:58 am Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 5:12 pm Sample Duration (3 or 24 hr): _____

Operator: M Suffert Elapsed Time: 10hr 16min

Field Final Can. Press.: -9 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: M Suffert Date: 5/16/18

Lab Recovery

Received by: AJ Date: 05/18/2018

Lab Final Can. Press.: 10.00 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7474; LONG: -87.9385; DUPLICATE ON ROOF
W/ 19277

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Eastern Research Group, Inc.

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 8C51813 1C

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5C9C

City/State: WILLOWBROOK, IL Lab Initial Can. Press. ("Hg): 29.7

AQS Code: — Cleaning Batch # : H1-4C3

Collection Date: 5/16/18 Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18

Operator: J. NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): N

Setup Date: 5/16/18 @ 7:37AM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -28.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 @ 5:50PM Sample Duration (3 or 24 hr): _____

Operator: SIEFFERT/NWIA Elapsed Time: 10 hrs 13 min

Field Final Can. Press.: Ø psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: SIEFFERT/NWIA Date: 5/16/18

Lab Recovery

Received by: [illegible] Date: 05/18/2018

Lab Final Can. Press.: 2.0 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7483; LONG: -87.9459; NO PRESSURE IN CANISTER @ end of Day Ø

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813 11

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: A21042

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-405

Collection Date: _____ Date Can. Cleaned: 5/7/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): Y

TOXICS (Y/N): _____ Duplicate Can # : SAT027

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/14/18

Field Setup

Received by: J. NWIA Date: 5/14/18

Operator: M Sieffert MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): N

Setup Date: 5/16/18 6:41 pm Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 6:20 AM Sample Duration (3 or 24 hr): _____

Operator: M. SIEFFERT -8 Elapsed Time: 11 HRS 31 MIN

Field Final Can. Press.: ~~5/17/18 [illegible]~~ psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: J NWIA Date: 5/17/18

Lab Recovery

Received by: AI Date: 05/18/2018

Lab Final Can. Press.: 7.50 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7474; LONG: -87.9385; ON ROOF; DUPLICATE W/SAT027
AMBIENT TEMP = 78° @ start and 53° @ end

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813 12

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: SATC27

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H1-406

Collection Date: _____ Date Can. Cleaned: 5/8/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): Y

TOXICS (Y/N): _____ Duplicate Can # : A21042

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/14/18

Field Setup

Received by: J. NWIA Date: 5/14/18

Operator: M Sieffert MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): N

Setup Date: 5/16/18 6:41 AM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 6:20 AM Sample Duration (3 or 24 hr): _____

Operator: ~~M. SIEFFERT~~ -7.5 MS Elapsed Time: 11 HRS 31 MIN

Field Final Can. Press.: ~~5/17/18 6:20 AM~~ psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): _____

Relinquished by: J. NWIA Date: 5/17/18

Lab Recovery

Received by: A1 Date: 05/18/2018

Lab Final Can. Press.: 7.00 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7474; LONG: -87.9385; ON ROOF; DUPLICATE W/ A21042
AMBIENT TEMP = 78°; END TEMP = 53°

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8C51813.13

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: SATC74

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H1-4C3

Collection Date: _____ Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J.NWIA Date: 5/15/18

Operator: J.NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/16/18 7:13PM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18@7:01AM Sample Duration (3 or 24 hr): _____

Operator: Suffert Elapsed Time: 11Hrs 53min

Field Final Can. Press.: Ø psig psia "Hg (Circle one)

Status: **VALID** **VOID** (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: J.NWIA Date: 5/17/18

Lab Recovery

Received by: A Date: 05/18/2018

Lab Final Can. Press.: 0.7 psig "Hg (Circle one) Converted to psia: _____

Status: **VALID** **VOID** (Circle one) Gauge: **1** **2** (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: ~~LAT: 41.7483; LONG: -87.9458; @ 11:00~~
LAT: 41.7505; LONG: -87.9371; UPWIND 12 hr COMPOSITE;
NOTE Ø END PRESSURE; FLOW REGULATOR WAS LOOSE @ COLLECTION.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813-14

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 19652

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-405

Collection Date: _____ Date Can. Cleaned: 5/7/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMG Date: 5/14/18

Field Setup

Received by: J.NWIA Date: 5/16/18

Operator: JNWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/16/18 7:22PM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.3 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 @ 7:12AM Sample Duration (3 or 24 hr): _____

Operator: J.NWIA Elapsed Time: 11 HRS 50 MIN

Field Final Can. Press.: -10 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: J. NWIA Date: 5/17/18

Lab Recovery

Received by: [illegible] Date: 05/18/2018

Lab Final Can. Press.: 9.50 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7483 ; LONG: -87.9459 ; TEMP @ start 76° + end @ 55°.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8051813-15

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5142

City/State: WILLOWBROOK, IL Lab Initial Can. Press. ("Hg): 29.7

AQS Code: — Cleaning Batch # : H1-403

Collection Date: 5/16/18 Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): _____

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RJB Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18

Operator: J COUGHLIN MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/16/18 @ 7:21AM Canister Valve Opened (Y/N): Y

Field Initial Can Press.: -29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/16/18 @ 5:37PM Sample Duration (3 or 24 hr): _____

Operator: M SUTTON Elapsed Time: 10 hrs 16 min

Field Final Can. Press.: -12 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: J. NWIA Date: 5/16/18

Lab Recovery

Received by: [illegible] Date: 05/18/2018

Lab Final Can. Press.: 12.50 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7453 ; LONG: -87.9439

White: Sample Traveler Canary: Lab Copy Pink: Field Copy