

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
 Data File : VL032565.D
 Acq On : 28 Sep 2018 1:25
 Operator : SY/AP
 Sample : J5094-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LIA-1

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:48 AM

Quant Time: Sep 28 04:33:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 28 04:33:06 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1225124	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2753499	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2952717	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2126818	9.55	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	56223	0.496	ppbv	97
3) Chlorodifluoromethane	3.03	51	167542	1.644	ppbv	98
4) Chloromethane	3.19	50	33949	0.571	ppbv	99
9) Propene	3.06	41	62499	1.414	ppbv #	69
11) Trichlorofluoromethane	4.03	101	38037	0.282	ppbv	91
13) Ethanol	3.67	45	1691571	127.310	ppbv	98
15) Acetone	3.92	43	832775	7.744	ppbv	100
19) Isopropyl Alcohol	4.05	45	408496	5.453	ppbv #	96
20) Methylene Chloride	4.43	84	114430	2.197	ppbv	98
26) Hexane	5.80	57	192544	1.634	ppbv #	48
29) Chloroform	5.87	83	180240	0.997	ppbv	97
34) 2-Butanone	5.36	43	30507	0.186	ppbv #	89
35) Carbon Tetrachloride	7.16	117	34388	0.180	ppbv #	92
36) Benzene	7.04	78	48622m	0.219	ppbv	
52) Tetrachloroethene	11.41	164	40309m	0.520	ppbv	
53) Toluene	9.98	91	1134266	4.183	ppbv	98
74) 1,2,4-Trimethylbenzene	16.97	105	111053	0.315	ppbv #	68
76) 1,4-Dichlorobenzene	17.33	146	33528m	0.168	ppbv	

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

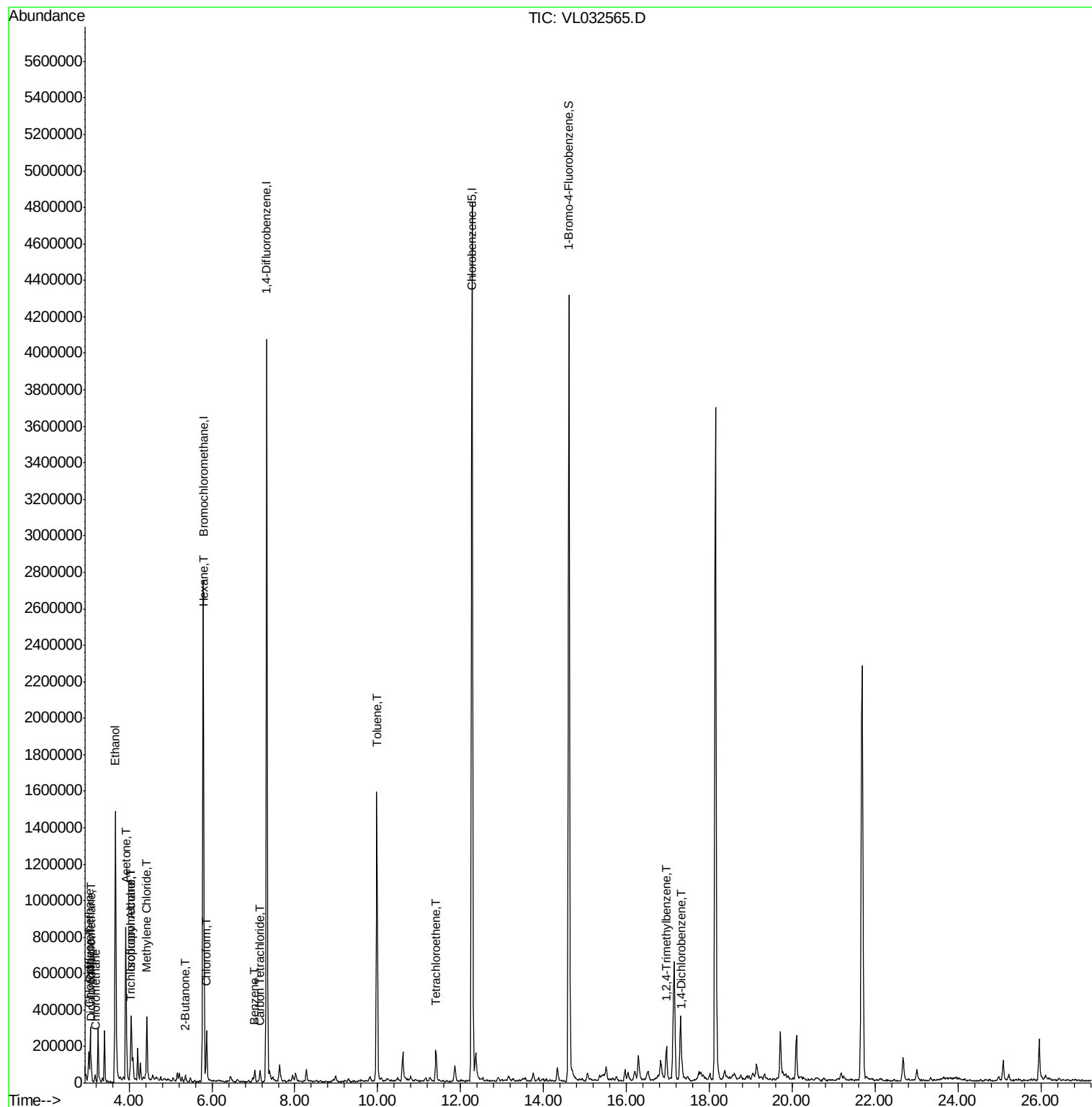
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
Data File : VL032565.D
Acq On : 28 Sep 2018 1:25
Operator : SY/AP
Sample : J5094-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

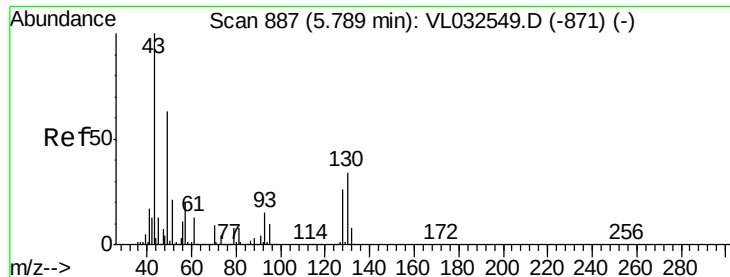
Instrument :
MSVOA_L
ClientSampleId :
LIA-1

Manual Integrations
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10/1/2018 11:57:48 AM

Quant Time: Sep 28 04:33:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





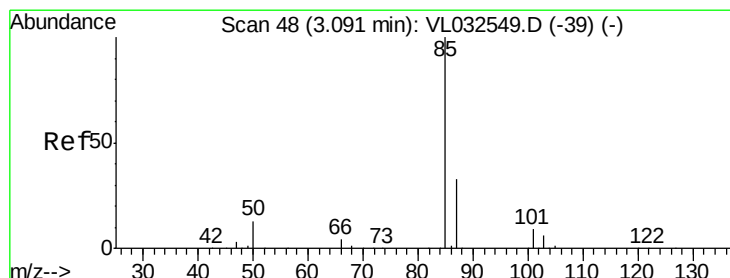
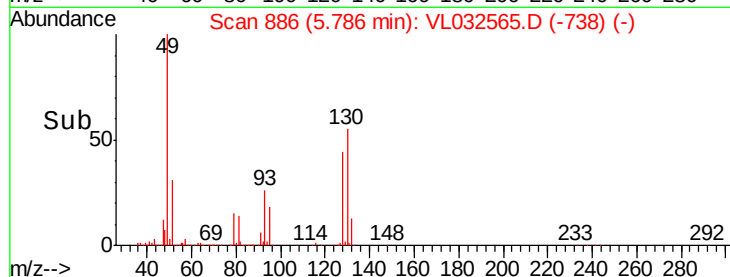
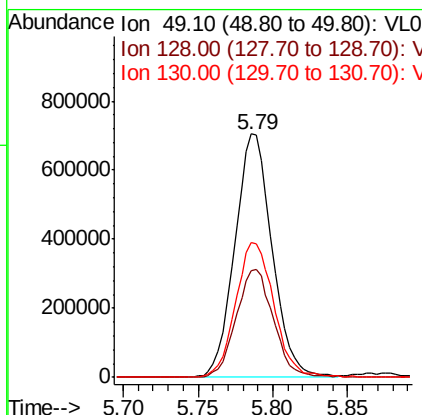
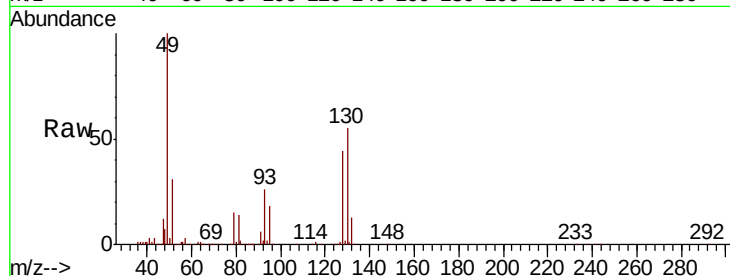
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.79 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Instrument :
 MSVOA_L
 ClientSampleId :
 LIA-1

Tgt Ion: 49 Resp: 1225124
 Ion Ratio Lower Upper
 49 100
 128 44.8 20.7 62.1
 130 56.9 26.6 79.7

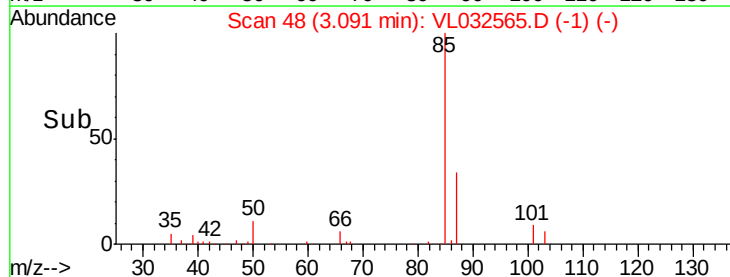
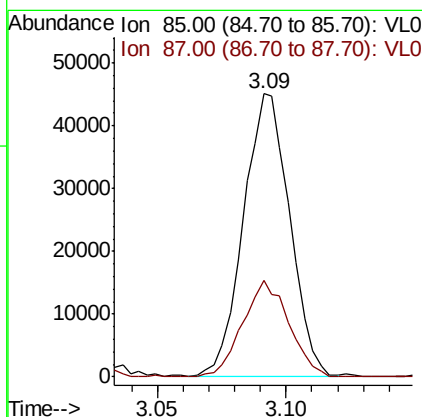
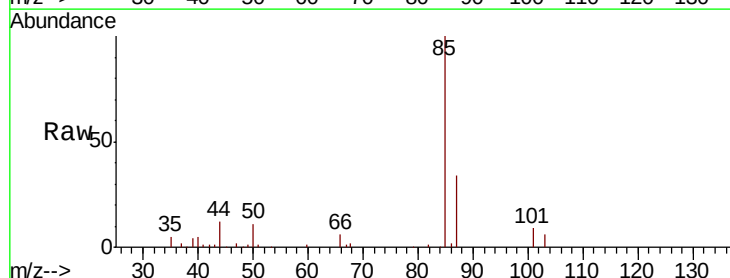
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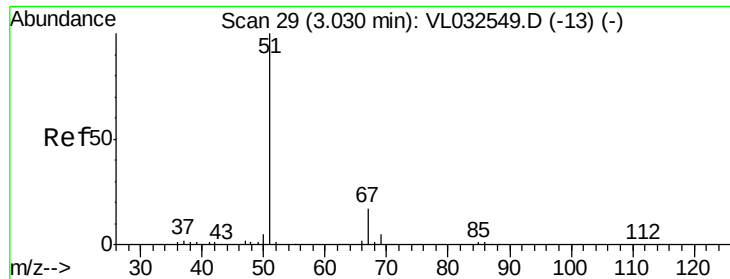
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#2
 Dichlorodifluoromethane
 Concen: 0.496 ppbv
 RT: 3.09 min Scan# 48
 Delta R.T. -0.02 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Tgt Ion: 85 Resp: 56223
 Ion Ratio Lower Upper
 85 100
 87 34.4 26.2 39.4





#3

Chlorodifluoromethane

Concen: 1.644 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

LIA-1

Tgt Ion: 51 Resp: 167542

Ion Ratio Lower Upper

51 100

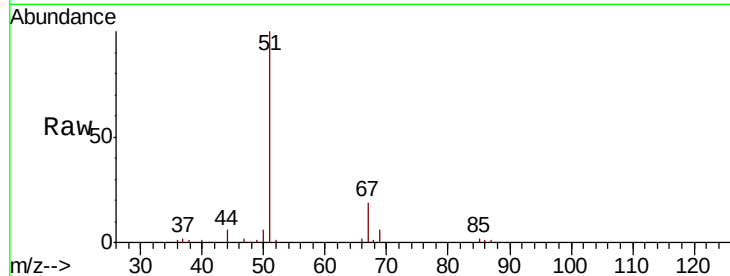
67 16.4 13.8 20.8

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.03

120000

100000

80000

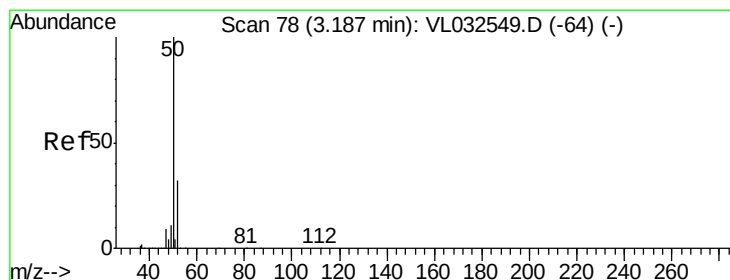
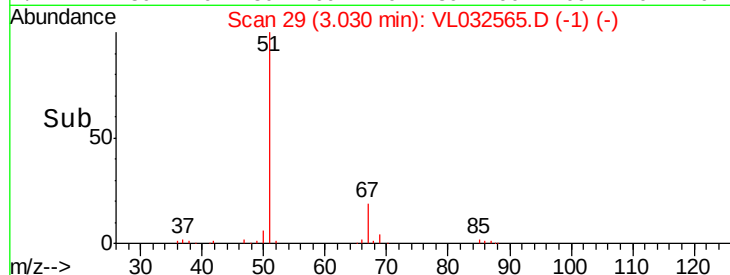
60000

40000

20000

0

Time-->



#4

Chloromethane

Concen: 0.571 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032565.D

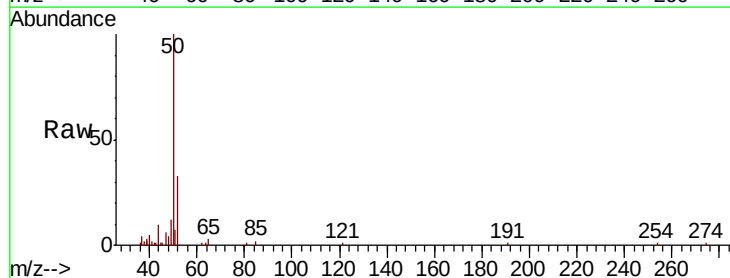
Acq: 28 Sep 2018 1:25

Tgt Ion: 50 Resp: 33949

Ion Ratio Lower Upper

50 100

52 32.6 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.19

25000

20000

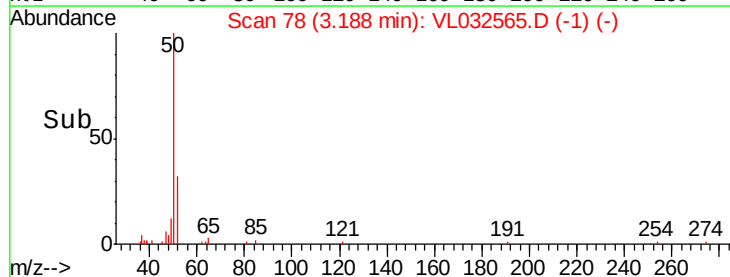
15000

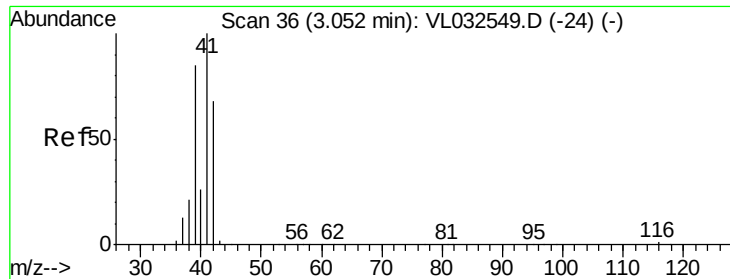
10000

5000

0

Time-->





#9

Propene

Concen: 1.414 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

LIA-1

Tgt Ion: 41 Resp: 62499

Ion Ratio Lower Upper

41 100

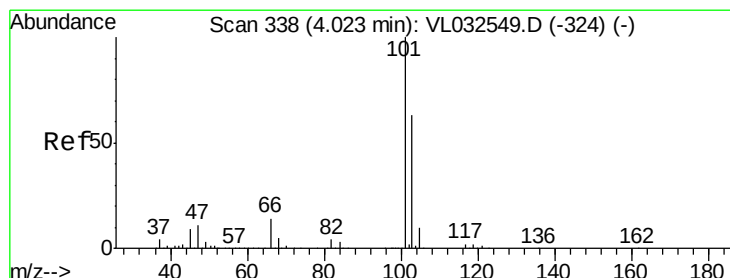
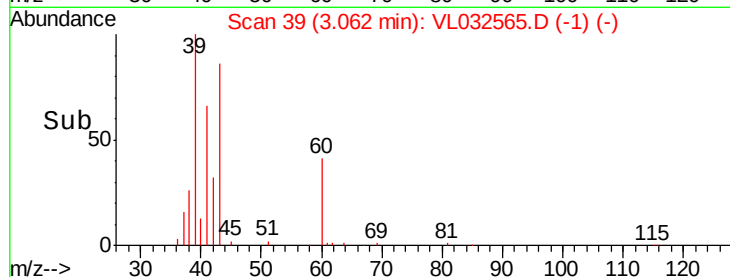
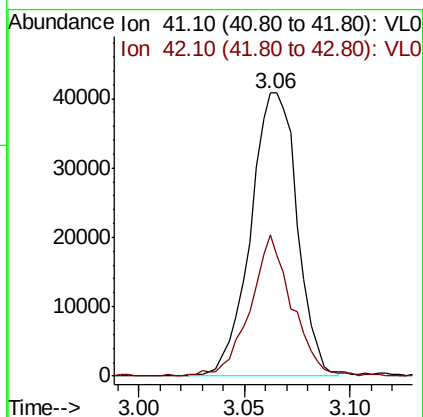
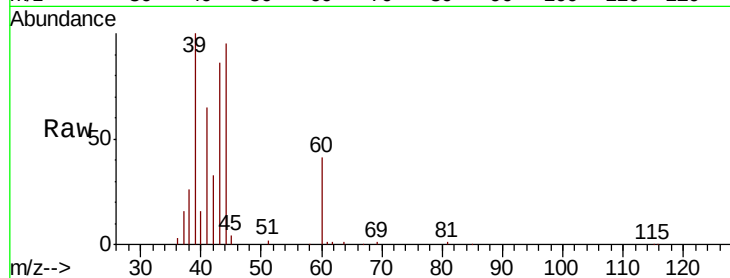
42 45.2 56.6 84.8#

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#11

Trichlorofluoromethane

Concen: 0.282 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL032565.D

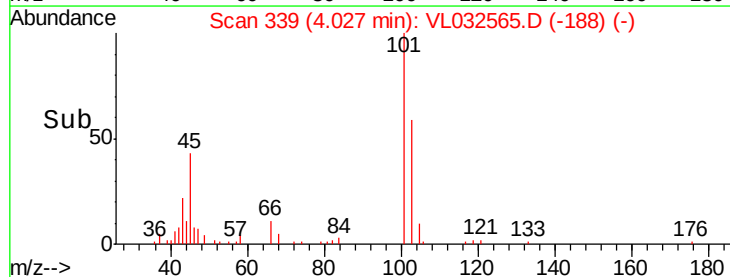
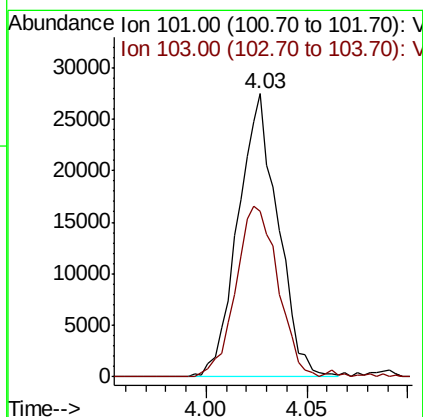
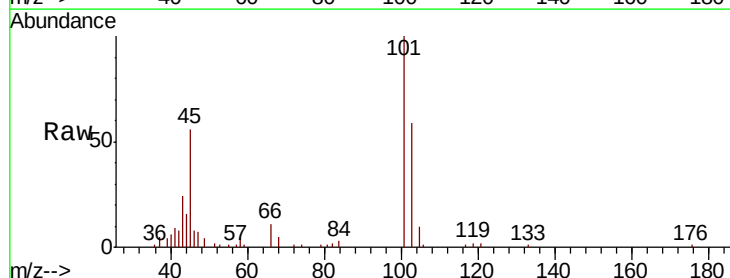
Acq: 28 Sep 2018 1:25

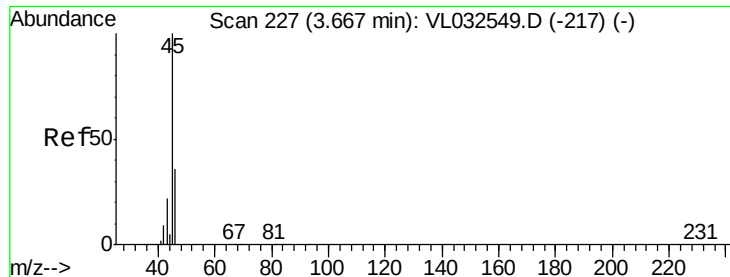
Tgt Ion: 101 Resp: 38037

Ion Ratio Lower Upper

101 100

103 58.5 52.8 79.2





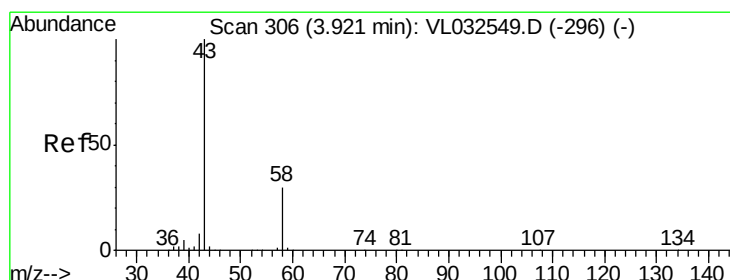
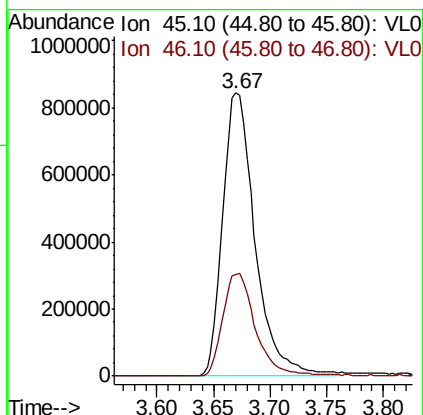
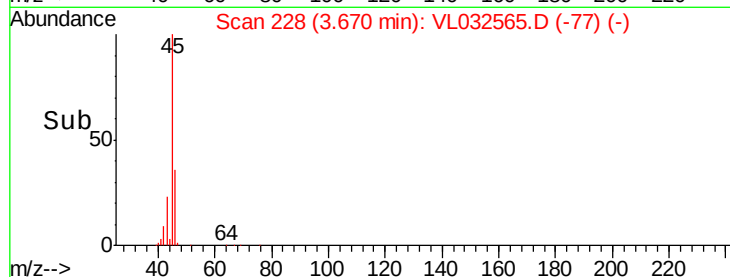
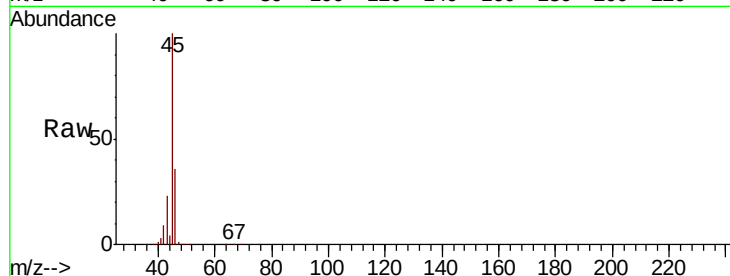
#13
Ethanol
Concen: 127.310 ppbv
RT: 3.67 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Instrument :
MSVOA_L
ClientSampleId :
LIA-1

Tgt Ion: 45 Resp: 1691571
Ion Ratio Lower Upper
45 100
46 36.8 14.2 56.8

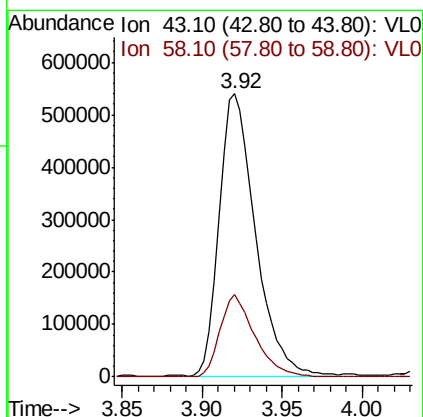
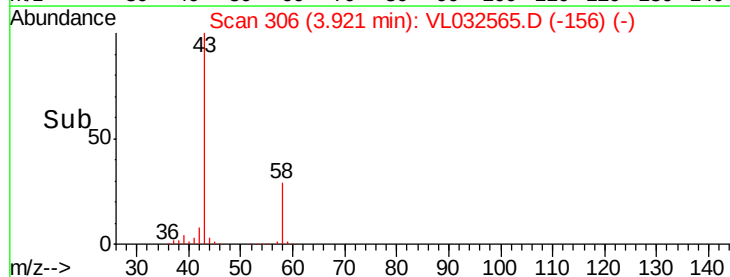
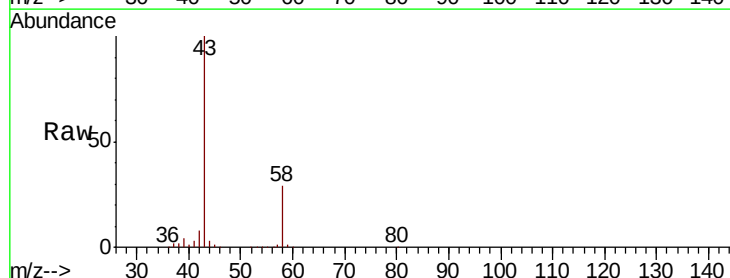
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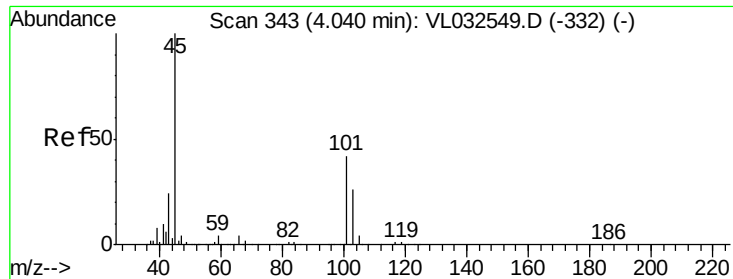
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#15
Acetone
Concen: 7.744 ppbv
RT: 3.92 min Scan# 306
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion: 43 Resp: 832775
Ion Ratio Lower Upper
43 100
58 28.3 22.6 33.8





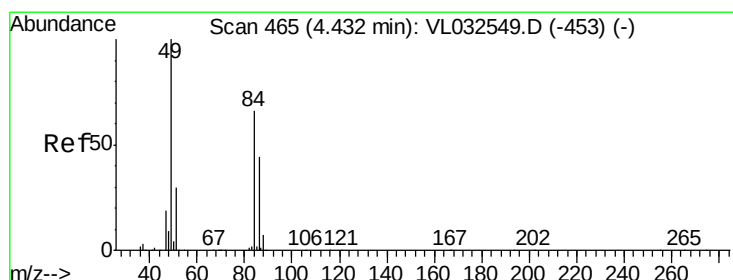
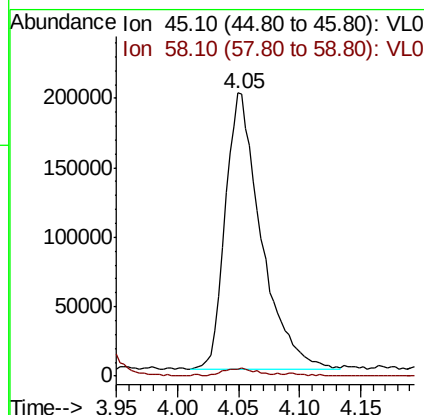
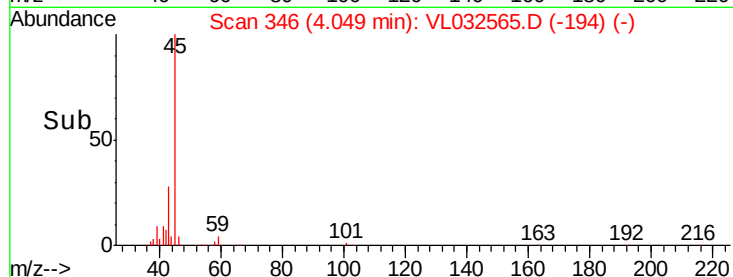
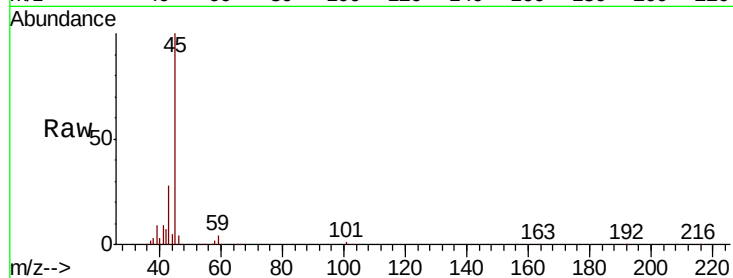
#19
Isopropyl Alcohol
Concen: 5.453 ppbv
RT: 4.05 min Scan# 346
Delta R.T. -0.01 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Instrument :
MSVOA_L
ClientSampleId :
LIA-1

Tgt Ion: 45 Resp: 408496
Ion Ratio Lower Upper
45 100
58 3.8 2.0 3.0#

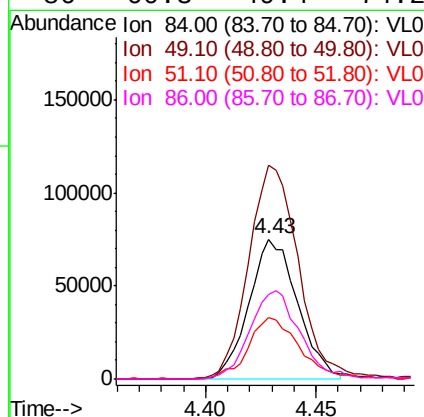
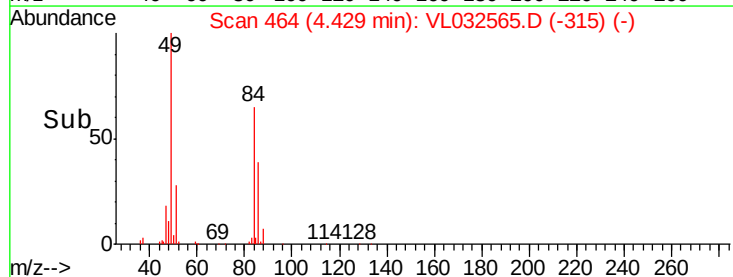
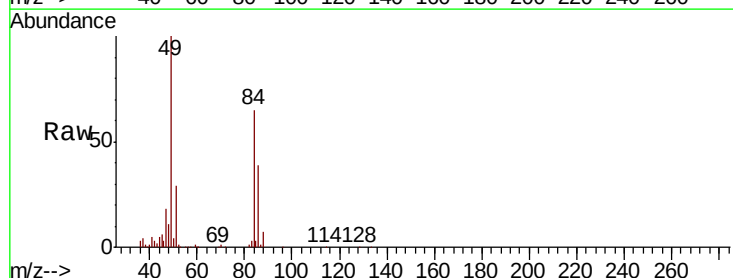
Manual Integrations
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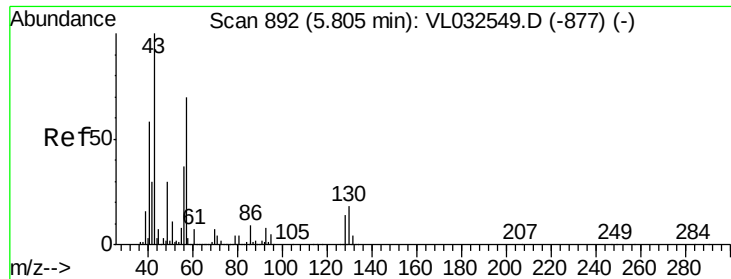
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#20
Methylene Chloride
Concen: 2.197 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion: 84 Resp: 114430
Ion Ratio Lower Upper
84 100
49 152.5 119.1 178.7
51 43.6 35.2 52.8
86 60.3 49.4 74.2





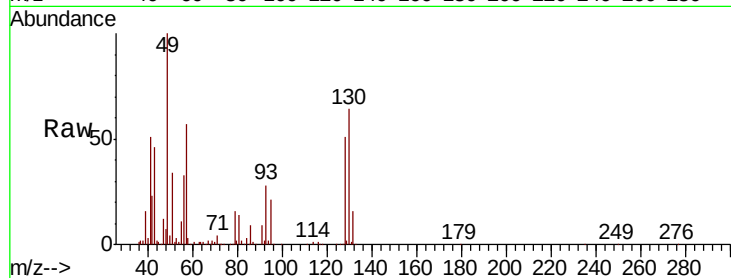
#26
Hexane
Concen: 1.634 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Instrument :
MSVOA_L
ClientSampled :
LIA-1

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.4	69.0	103.4
43	85.9	172.1	258.1#
56	58.3	42.2	63.2

Manual Integrations
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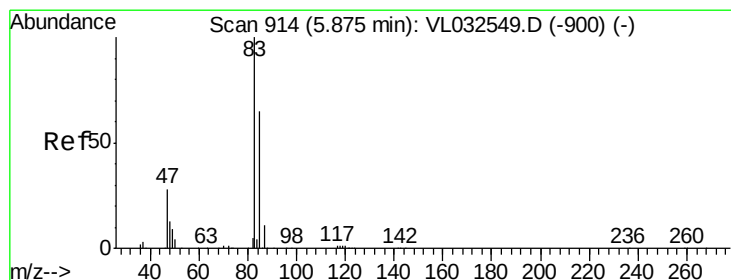
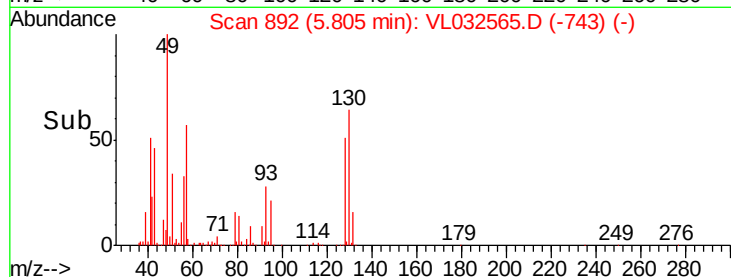
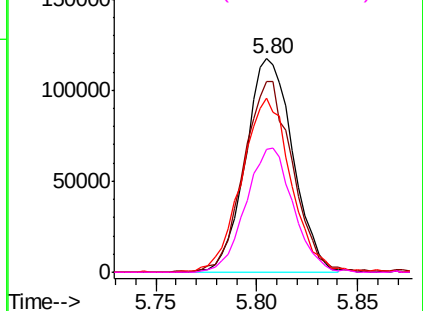
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

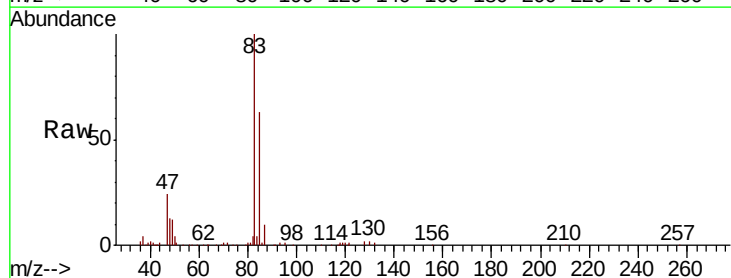
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.997 ppbv
RT: 5.87 min Scan# 913
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

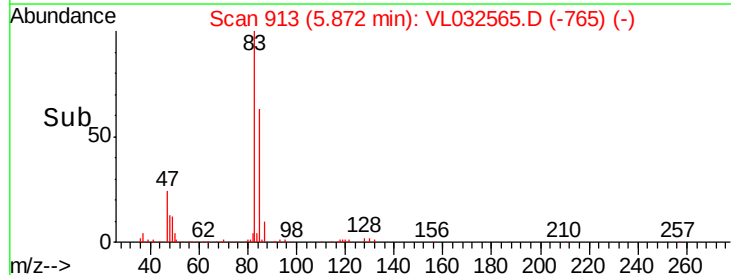
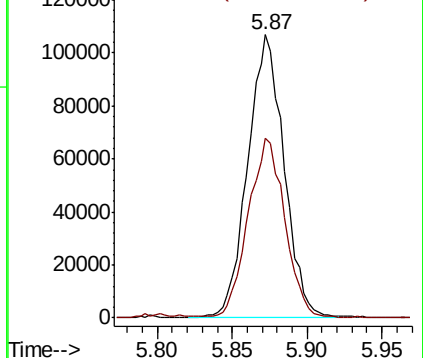
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.5	78.7

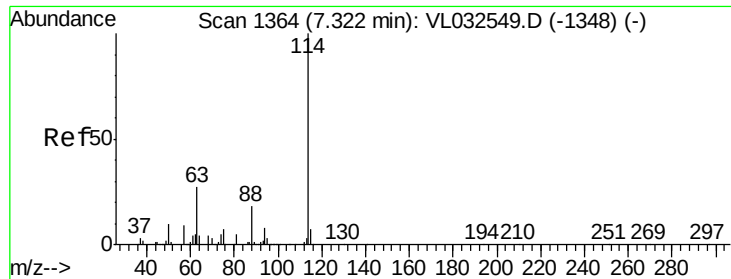


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





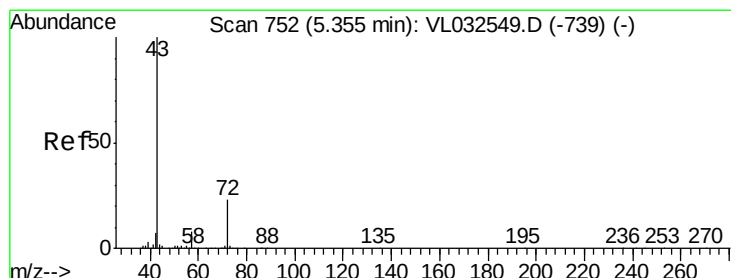
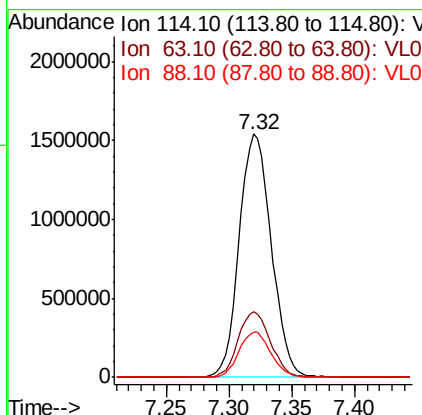
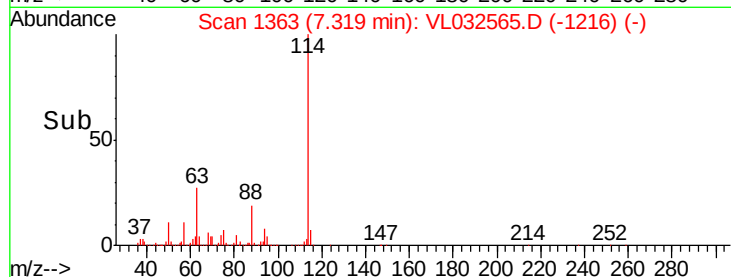
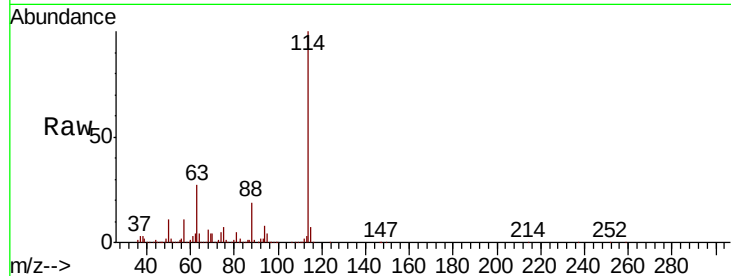
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Instrument :
 MSVOA_L
 ClientSampleId :
 LIA-1

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.2	33.4
88	18.6	15.0	22.4

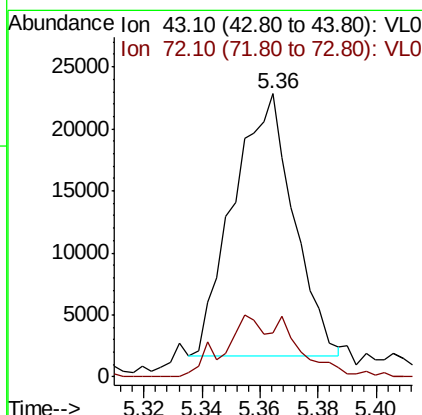
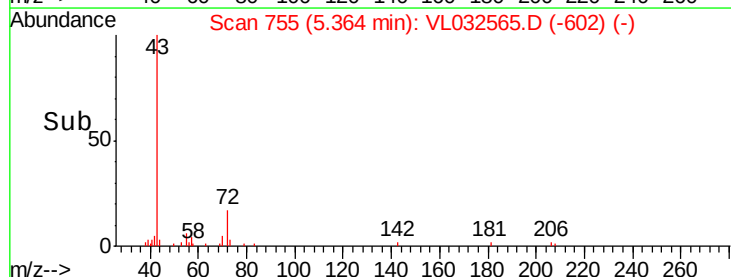
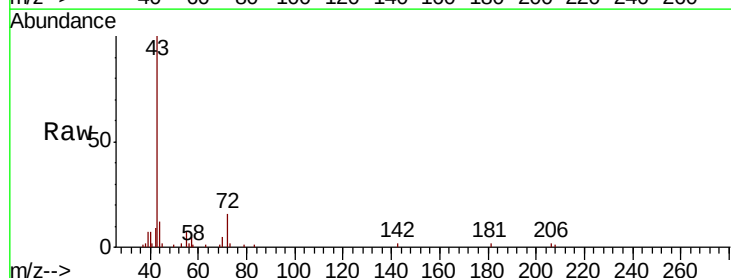
Manual Integrations
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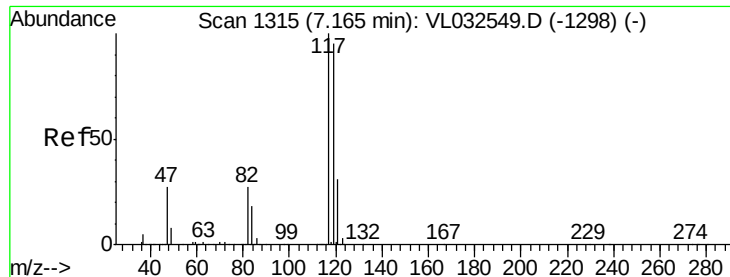
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 10/1/2018 11:57:48 AM



#34
 2-Butanone
 Concen: 0.186 ppbv
 RT: 5.36 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.5	17.8	26.6





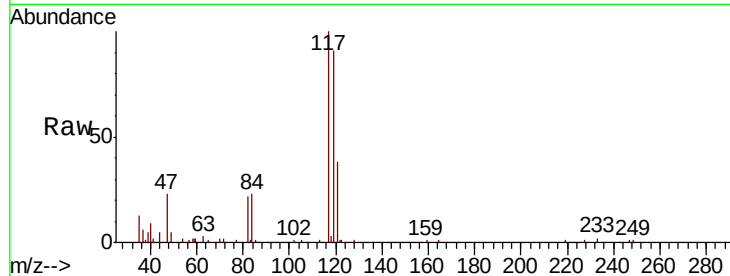
#35
Carbon Tetrachloride
Concen: 0.180 ppbv
RT: 7.16 min Scan# 1314
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Instrument :
MSVOA_L
ClientSampled :
LIA-1

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	34388		
119	90.2	76.6	115.0	
121	37.9	24.6	36.8#	

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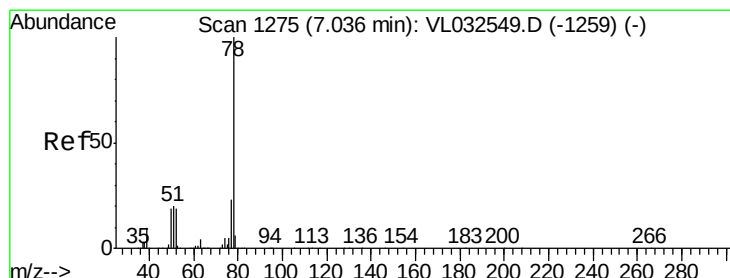
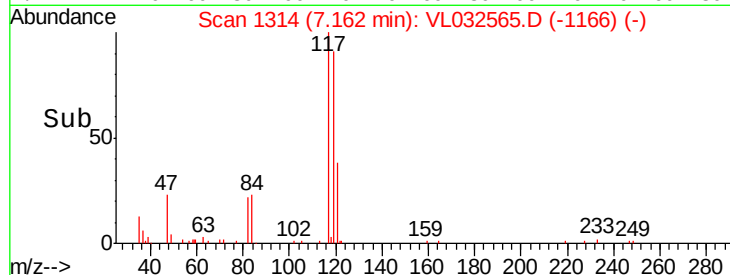
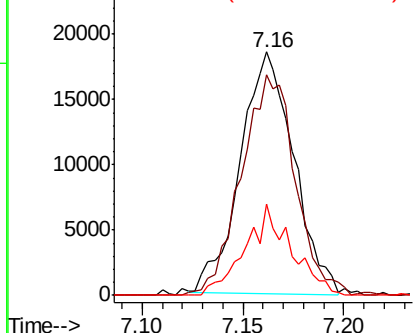


Abundance

Ion 117.00 (116.70 to 117.70): V

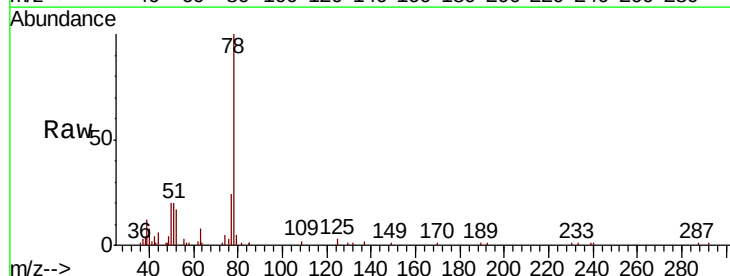
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 0.219 ppbv m
RT: 7.04 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	48622		
77	23.6	18.4	27.6	
50	20.5	14.4	21.6	

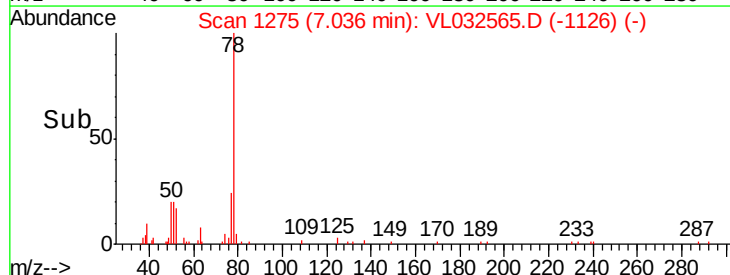
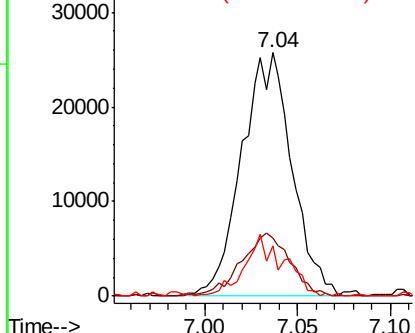


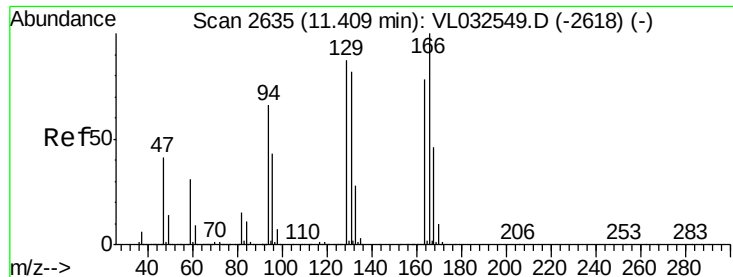
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





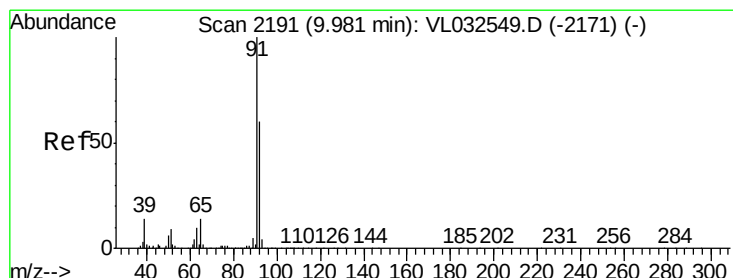
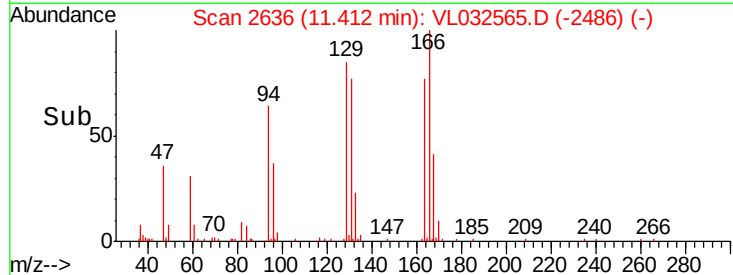
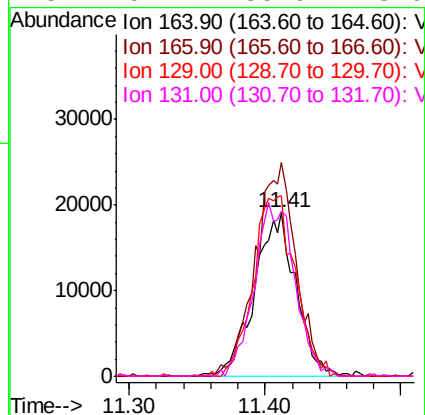
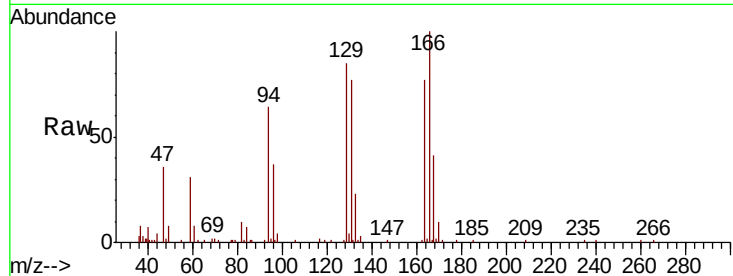
#52
Tetrachloroethene
Concen: 0.520 ppbv m
RT: 11.41 min Scan# 2636
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Instrument :
MSVOA_L
ClientSampled :
LIA-1

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.7	100.6	150.8
129	110.6	89.9	134.9
131	101.1	85.9	128.9

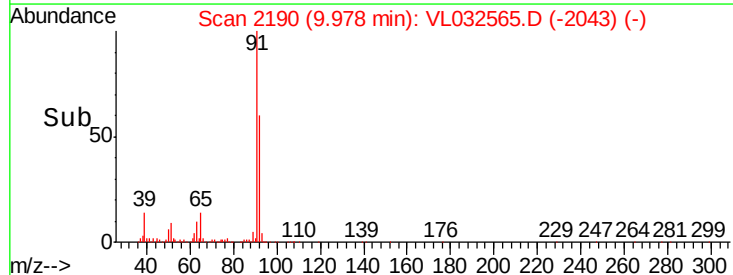
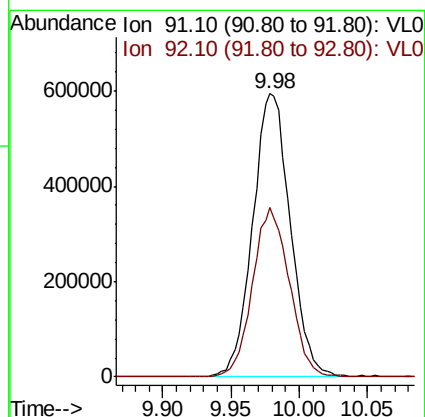
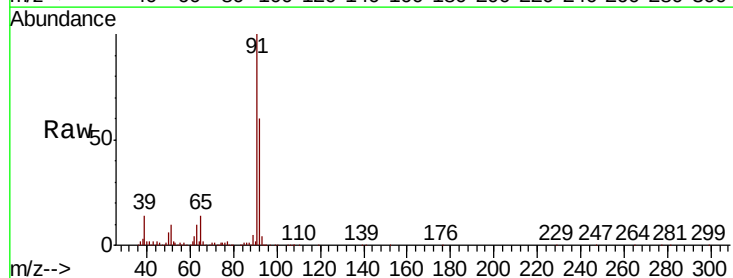
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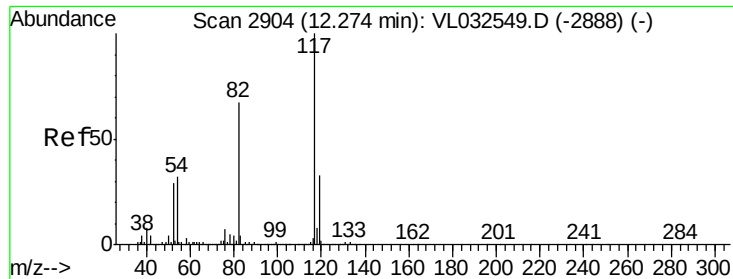
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#53
Toluene
Concen: 4.183 ppbv
RT: 9.98 min Scan# 2190
Delta R.T. -0.03 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.1	72.1





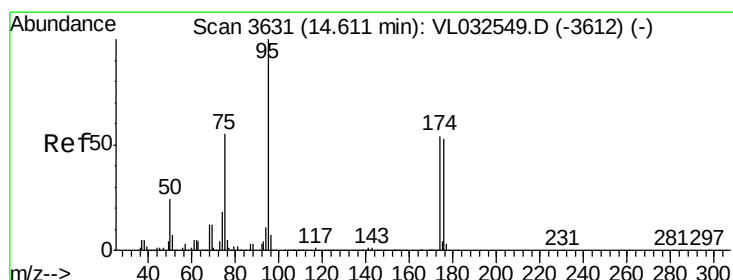
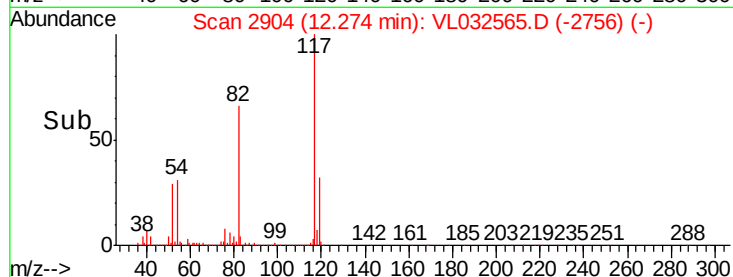
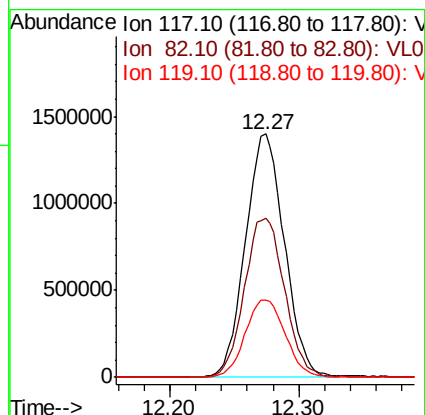
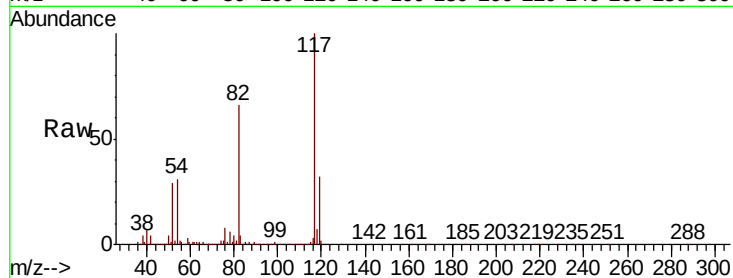
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Instrument :
MSVOA_L
ClientSampled :
LIA-1

Tgt Ion: 117 Resp: 2952717
Ion Ratio Lower Upper
117 100
82 67.2 53.0 79.6
119 32.6 45.9 68.9#

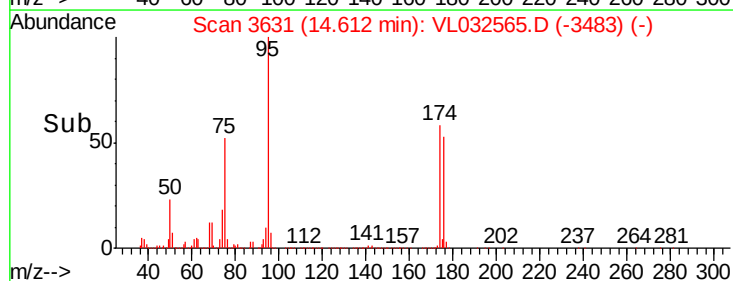
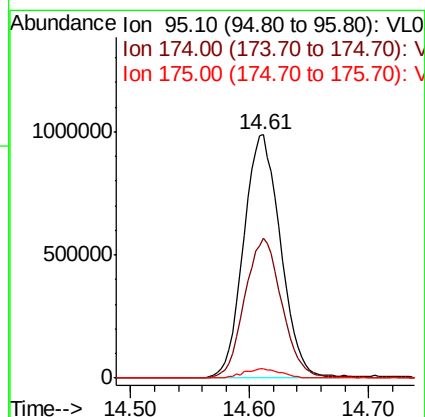
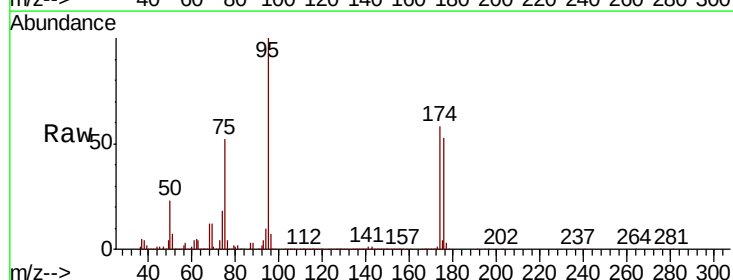
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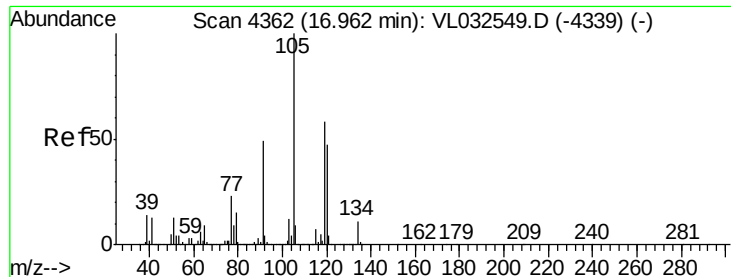
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.551 ppbv
RT: 14.61 min Scan# 3631
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion: 95 Resp: 2126818
Ion Ratio Lower Upper
95 100
174 58.5 46.3 69.5
175 3.9 3.4 5.0





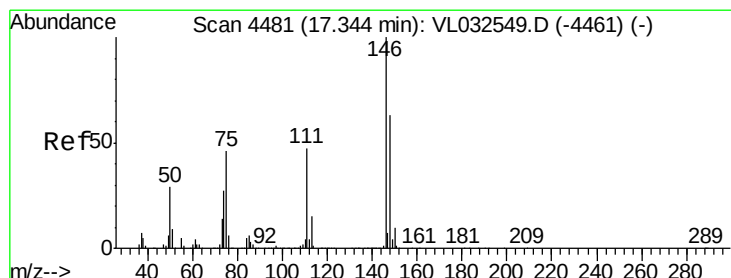
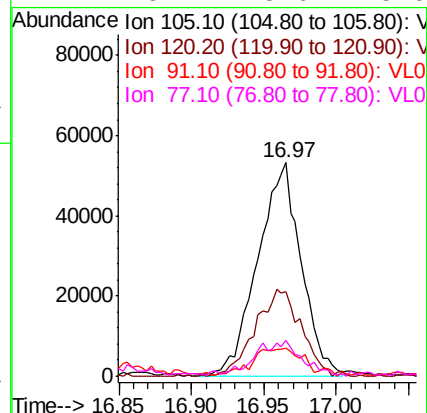
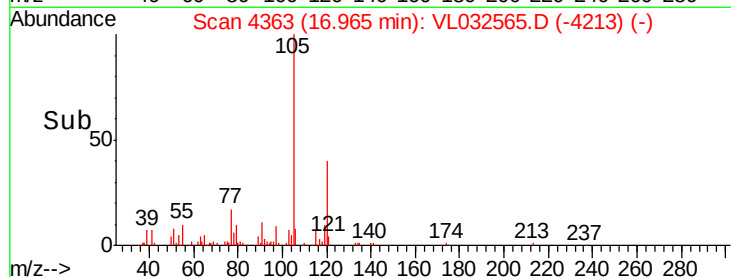
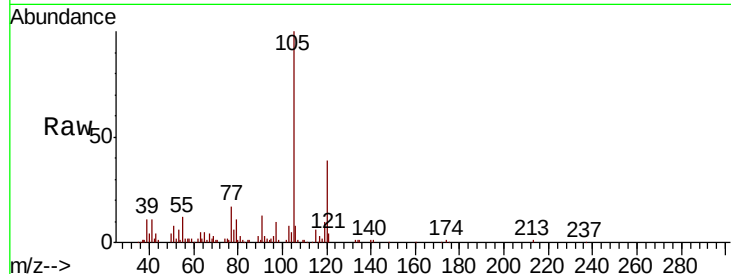
#74
 1,2,4-Trimethylbenzene
 Concen: 0.315 ppbv
 RT: 16.97 min Scan# 4363
 Delta R.T. -0.02 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Instrument :
 MSVOA_L
 ClientSampled :
 LIA-1

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	111053		
120	39.3	37.8	56.8	
91	11.9	41.4	62.0	
77	15.7	18.6	28.0	

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#76
 1,4-Dichlorobenzene
 Concen: 0.168 ppbv m
 RT: 17.33 min Scan# 4478
 Delta R.T. -0.03 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	33528		
111	58.5	23.4	70.2	
148	0.0	32.0	96.2	

