

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
 Data File : VL032218.D
 Acq On : 6 Jul 2018 00:38
 Operator : SY/AP
 Sample : J3762-13 0.1 PPB LOD
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2018

Quant Time: Jul 06 04:31:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1541366	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3572799	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.33	117	3805331	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	2924637	10.05	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	30943	0.152	ppbv	91
3) Chlorodifluoromethane	3.07	51	20907	0.111	ppbv	93
4) Chloromethane	3.23	50	11699	0.116	ppbv	91
5) Vinyl Chloride	3.35	62	10116	0.100	ppbv #	76
6) Bromomethane	3.57	94	2841	0.049	ppbv #	57
7) Chloroethane	3.66	64	1248	0.035	ppbv #	67
8) Dichlorotetrafluoroethane	3.27	85	26846	0.119	ppbv	88
9) Propene	3.09	41	7146	0.081	ppbv	90
10) Heptane	8.33	43	13399	0.052	ppbv #	39
11) Trichlorofluoromethane	4.07	101	25567	0.116	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.62	101	9905	0.068	ppbv #	62
14) Bromoethene	3.85	108	5694	0.082	ppbv #	90
15) Acetone	3.99	43	29640	0.164	ppbv	93
16) 1,3-Butadiene	3.42	39	7884	0.092	ppbv	96
18) 1,1-Dichloroethene	4.43	96	3865	0.055	ppbv	80
20) Methylene Chloride	4.48	84	7643	0.116	ppbv #	85
21) Allyl Chloride	4.55	41	6887	0.056	ppbv #	35
22) trans-1,2-Dichloroethene	5.04	96	5140	0.070	ppbv #	73
23) Vinyl Acetate	5.24	43	11234	0.034	ppbv #	81
24) 1,1-Dichloroethane	5.17	63	21978	0.105	ppbv	98
26) Hexane	5.86	57	18154	0.106	ppbv #	94
27) Carbon Disulfide	4.70	76	8336	0.049	ppbv #	1
28) Methyl tert-Butyl Ether	5.22	73	23522	0.078	ppbv	95
29) Chloroform	5.93	83	29504	0.118	ppbv	94
30) Cyclohexane	7.33	84	6273	0.039	ppbv #	1
31) cis-1,2-Dichloroethene	5.72	61	10153	0.059	ppbv	97
32) 1,1,1-Trichloroethane	6.71	97	27202	0.104	ppbv #	88
34) 2-Butanone	5.43	43	12101	0.053	ppbv #	54
35) Carbon Tetrachloride	7.23	117	10021	0.041	ppbv	91
36) Benzene	7.09	78	20171	0.058	ppbv #	95
37) 1,2-Dichloroethane	6.50	62	15017	0.087	ppbv #	81
38) Trichloroethene	8.04	130	9716	0.072	ppbv #	81
39) 1,2-Dichloropropane	7.38	63	987468	7.240	ppbv #	26
42) Bromodichloromethane	8.00	83	16866	0.062	ppbv #	98
43) Methyl Methacrylate	8.23	69	7526	0.053	ppbv #	1
44) 2,2,4-Trimethylpentane	8.08	57	46974	0.078	ppbv #	88
46) cis-1,3-Dichloropropene	8.93	75	8374	0.039	ppbv #	83
47) 1,1,2-Trichloroethane	9.71	97	9685	0.068	ppbv #	82
51) 2-Hexanone	10.40	43	10532	0.034	ppbv #	27
53) Toluene	10.04	91	37258	0.089	ppbv	99
54) 1,2-Dibromoethane	10.86	107	16311	0.077	ppbv	91

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 Misc : 400ml/MSVOA_L
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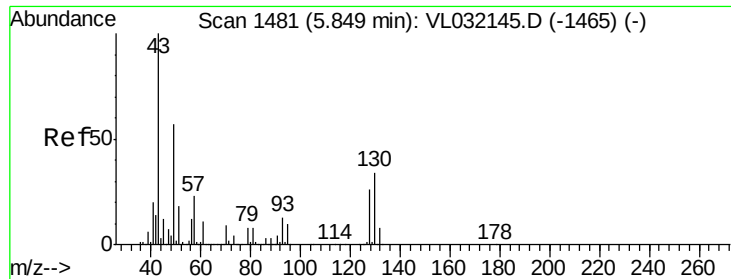
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2018

Quant Time: Jul 06 04:31:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) Ethyl Benzene	12.95	91	26033	0.042	ppbv	90
60) o-Xylene	13.94	91	26774	0.055	ppbv #	30
61) Styrene	13.78	104	16329	0.041	ppbv #	27
62) Isopropylbenzene	14.92	105	60253	0.080	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.93	83	37084	0.098	ppbv	79
65) tert-Butylbenzene	17.00	119	22381	0.034	ppbv #	17
67) sec-Butylbenzene	17.56	105	73623	0.076	ppbv	97
70) n-Butylbenzene	18.81	91	52952	0.065	ppbv	98
71) 2-Chlorotoluene	15.71	91	27851	0.048	ppbv	73
73) 1,3,5-Trimethylbenzene	16.26	105	36311	0.061	ppbv #	63
74) 1,2,4-Trimethylbenzene	17.02	105	44554	0.074	ppbv #	78
75) 1,3-Dichlorobenzene	17.25	146	14065	0.041	ppbv #	24
76) 1,4-Dichlorobenzene	17.40	146	12292	0.035	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

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MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

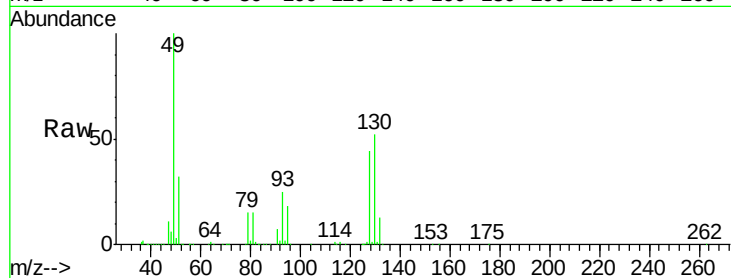
Tgt Ion: 49 Resp: 1541366

Ion Ratio Lower Upper

49 100

128 42.7 23.4 70.0

130 54.1 30.3 90.9



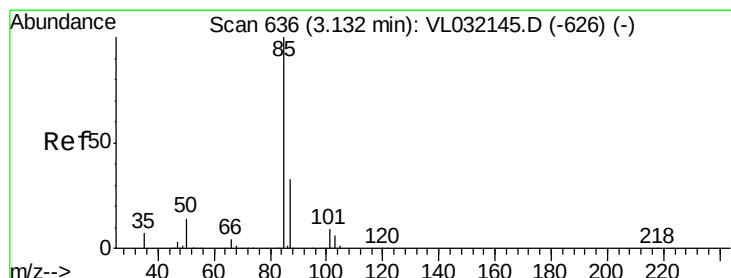
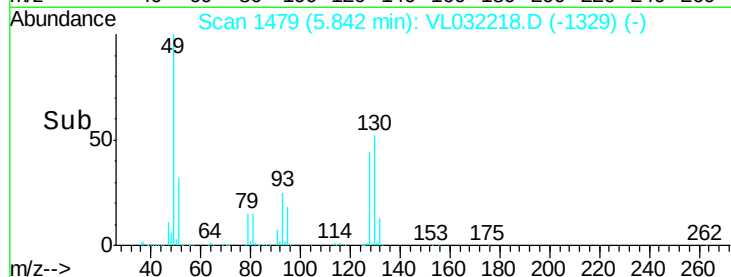
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.84

Time-->



#2

Dichlorodifluoromethane

Concen: 0.152 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032218.D

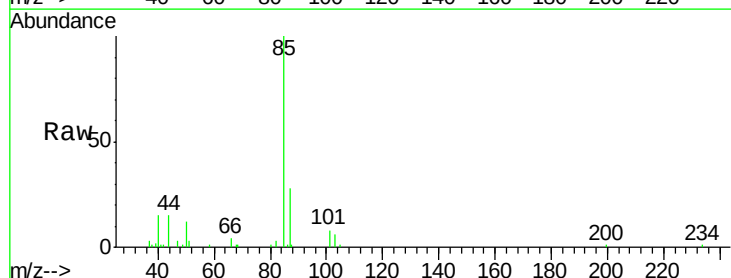
Acq: 6 Jul 2018 00:38

Tgt Ion: 85 Resp: 30943

Ion Ratio Lower Upper

85 100

87 28.4 26.7 40.1

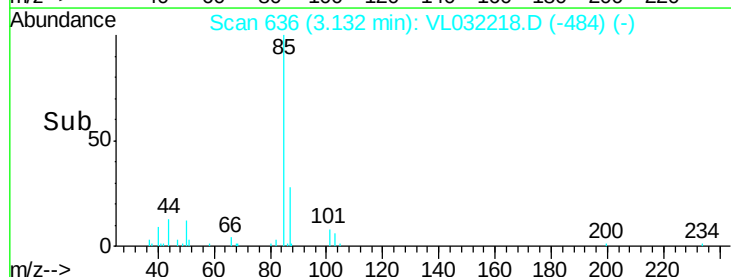


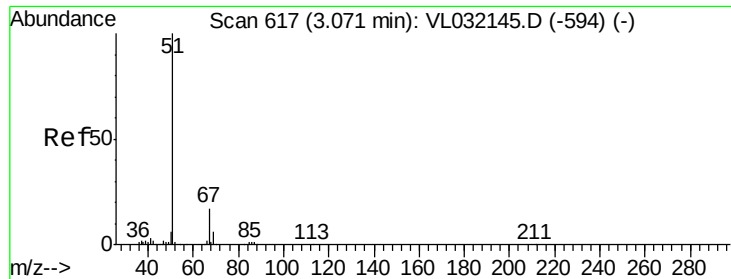
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

Time-->

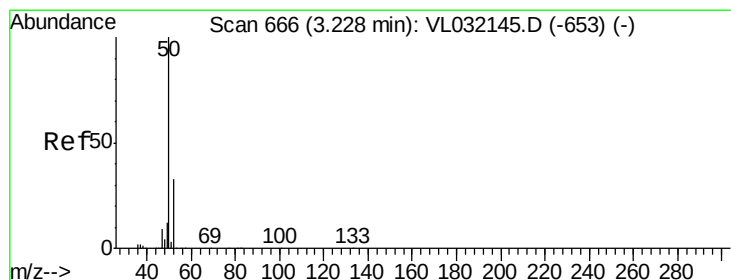
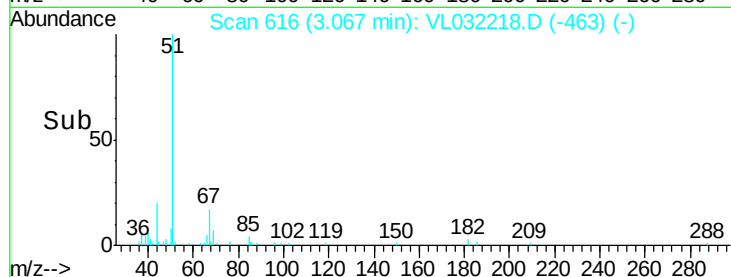
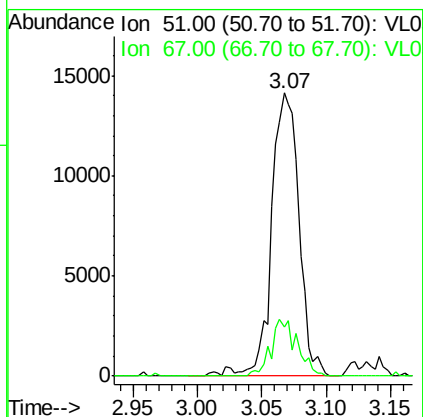
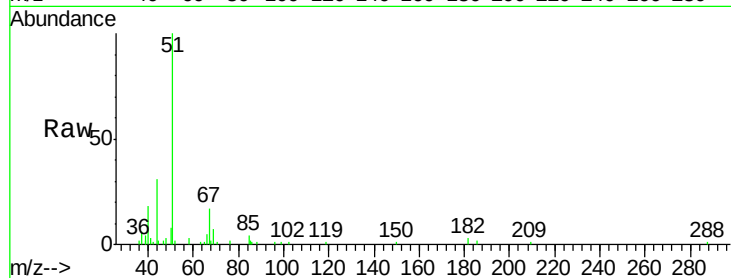




#3
Chlorodifluoromethane
Concen: 0.111 ppbv
RT: 3.07 min Scan# 616
Delta R.T. -0.01 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

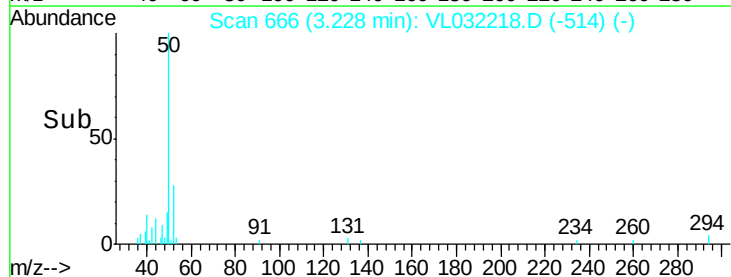
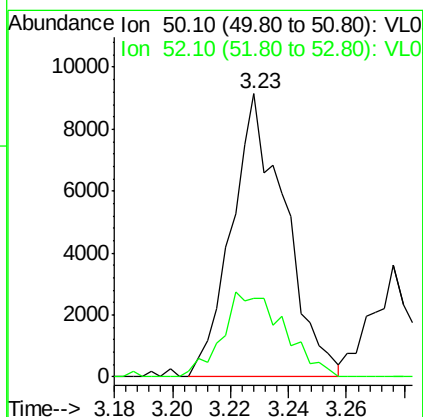
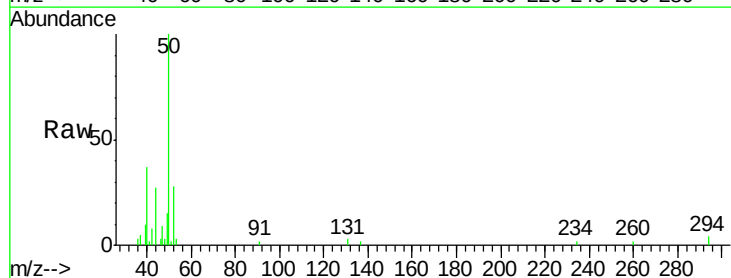
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2018

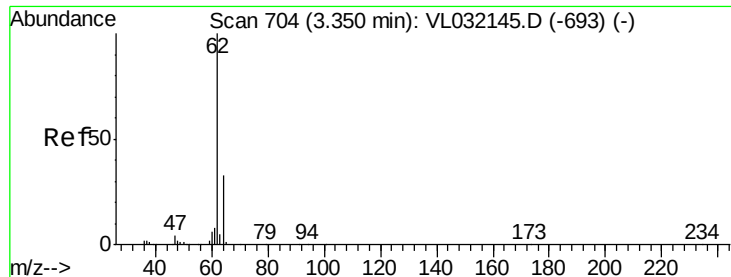
Tgt Ion: 51 Resp: 20907
Ion Ratio Lower Upper
51 100
67 19.3 13.2 19.8



#4
Chloromethane
Concen: 0.116 ppbv
RT: 3.23 min Scan# 666
Delta R.T. -0.01 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

Tgt Ion: 50 Resp: 11699
Ion Ratio Lower Upper
50 100
52 27.6 26.0 39.0





#5

Vinyl Chloride

Concen: 0.100 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

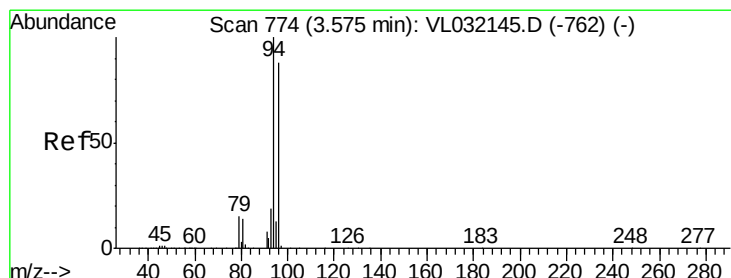
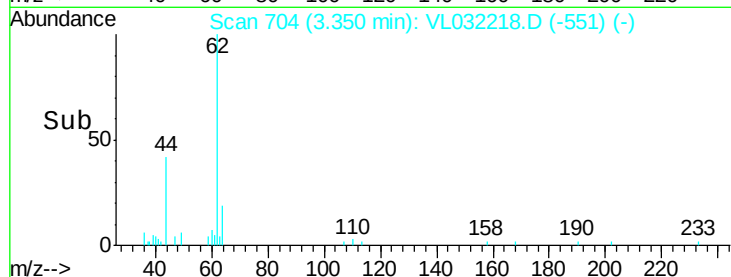
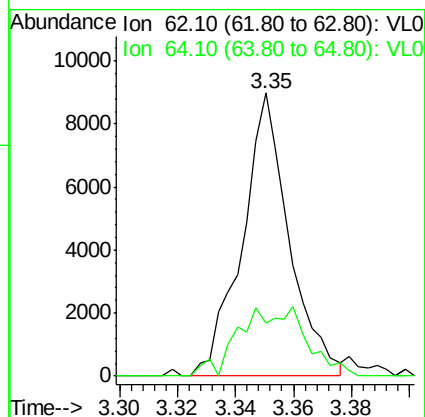
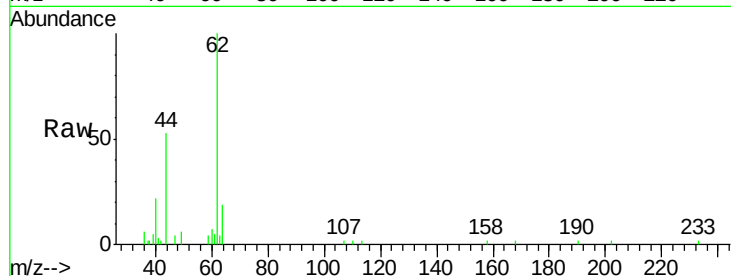
LOD-MDL-AIR-01-QT3-2018

Tgt Ion: 62 Resp: 10116

Ion Ratio Lower Upper

62 100

64 18.9 26.1 39.1#



#6

Bromomethane

Concen: 0.049 ppbv

RT: 3.57 min Scan# 772

Delta R.T. -0.02 min

Lab File: VL032218.D

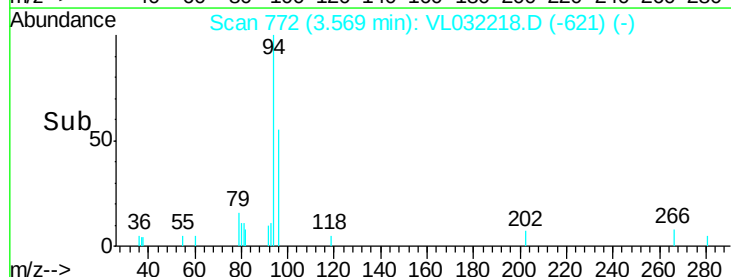
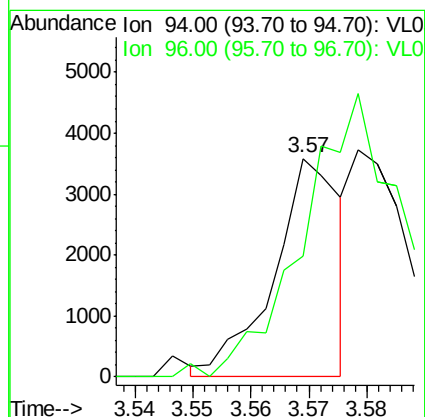
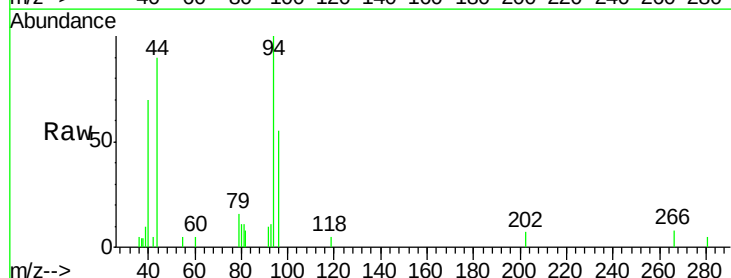
Acq: 6 Jul 2018 00:38

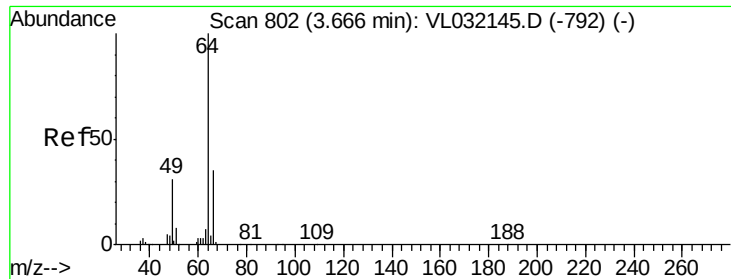
Tgt Ion: 94 Resp: 2841

Ion Ratio Lower Upper

94 100

96 51.9 74.7 112.1#





#7

Chloroethane

Concen: 0.035 ppbv

RT: 3.66 min Scan# 801

Delta R.T. -0.01 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

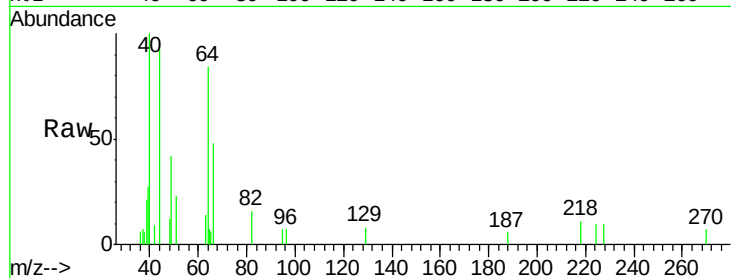
LOD-MDL-AIR-01-QT3-2018

Tgt Ion: 64 Resp: 1248

Ion Ratio Lower Upper

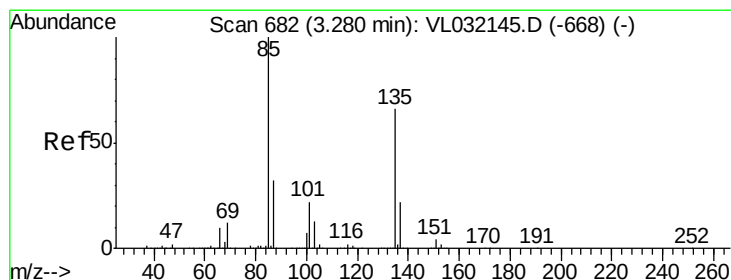
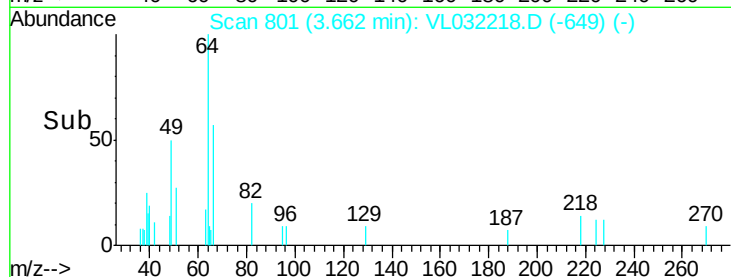
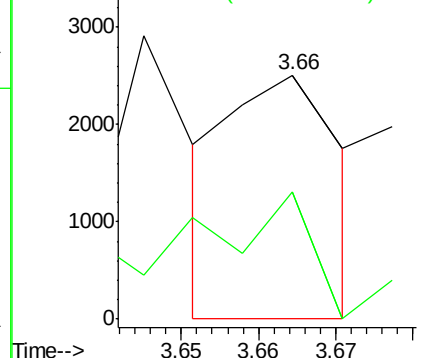
64 100

66 52.4 26.9 40.3#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.119 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL032218.D

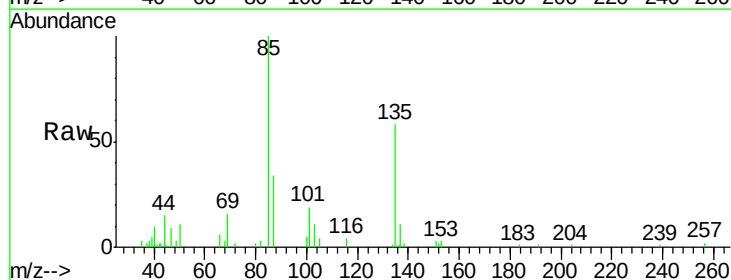
Acq: 6 Jul 2018 00:38

Tgt Ion: 85 Resp: 26846

Ion Ratio Lower Upper

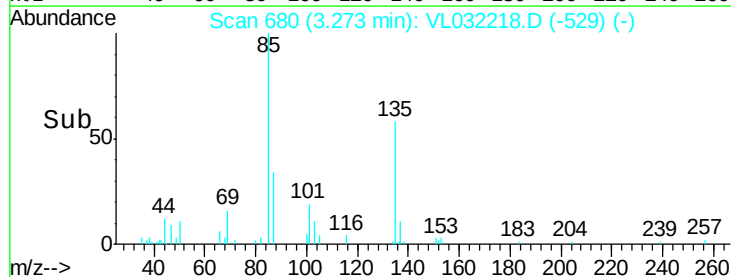
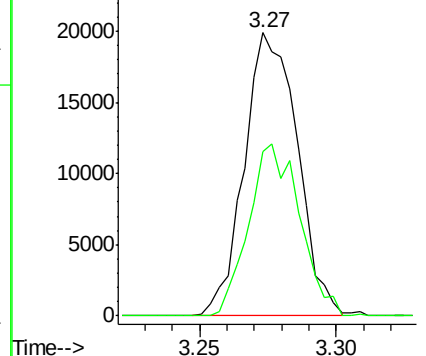
85 100

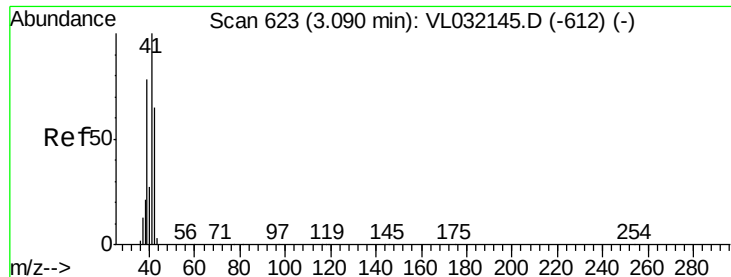
135 58.4 54.6 82.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.081 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.01 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

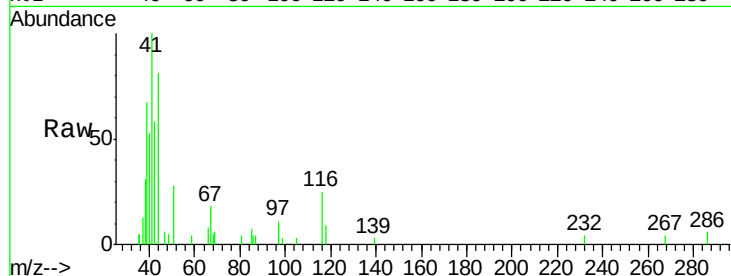
LOD-MDL-AIR-01-QT3-2018

Tgt Ion: 41 Resp: 7146

Ion Ratio Lower Upper

41 100

42 78.8 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.09

6000

5000

4000

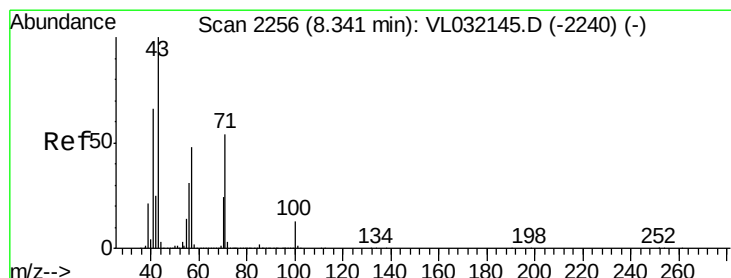
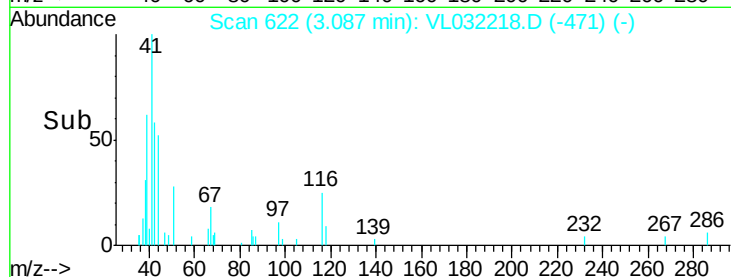
3000

2000

1000

0

Time-->



#10

Heptane

Concen: 0.052 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.02 min

Lab File: VL032218.D

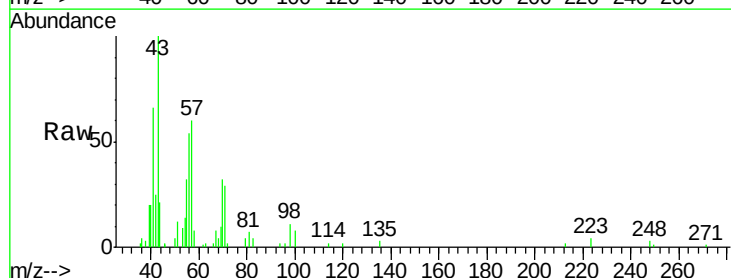
Acq: 6 Jul 2018 00:38

Tgt Ion: 43 Resp: 13399

Ion Ratio Lower Upper

43 100

57 91.5 39.8 59.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

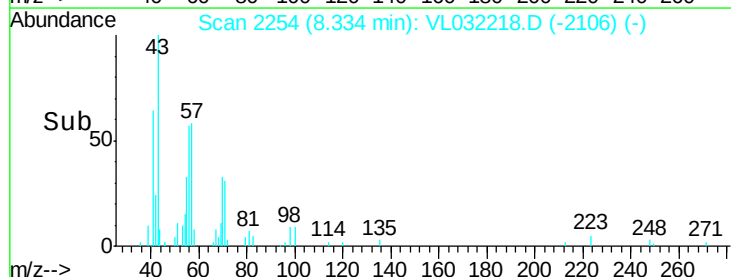
8.33

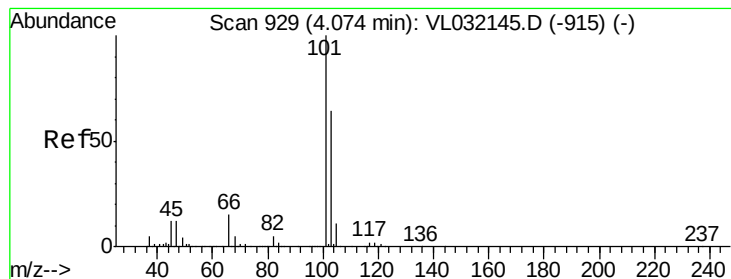
10000

5000

0

Time-->





#11

Trichlorofluoromethane

Concen: 0.116 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032218.D

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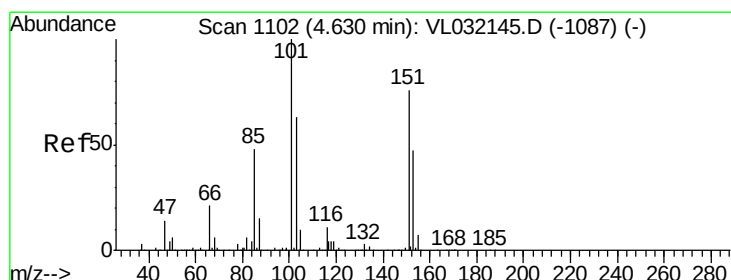
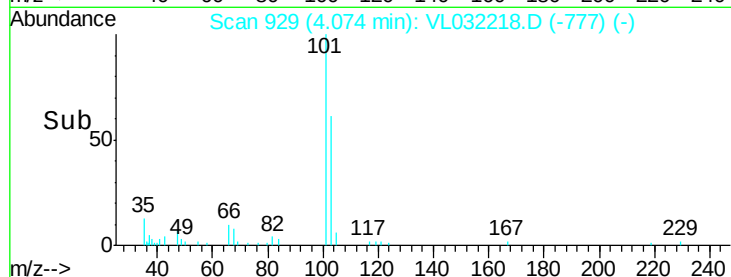
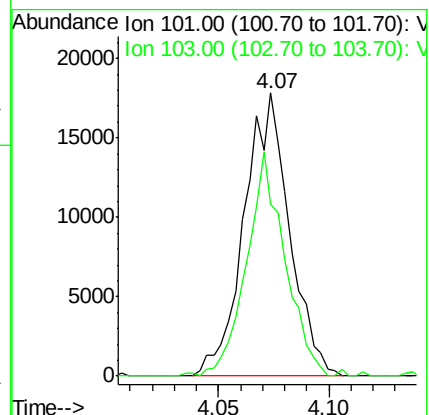
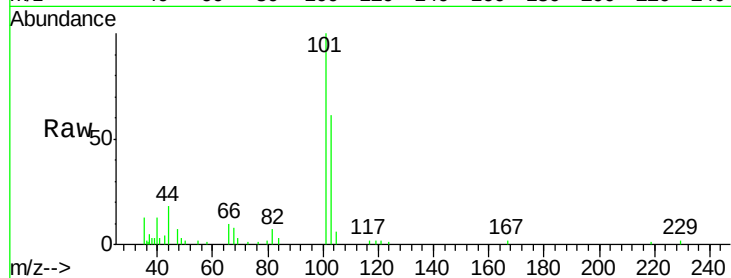
LOD-MDL-AIR-01-QT3-2018

Tgt Ion:101 Resp: 25567

Ion Ratio Lower Upper

101 100

103 59.5 51.4 77.0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.068 ppbv

RT: 4.62 min Scan# 1099

Delta R.T. -0.02 min

Lab File: VL032218.D

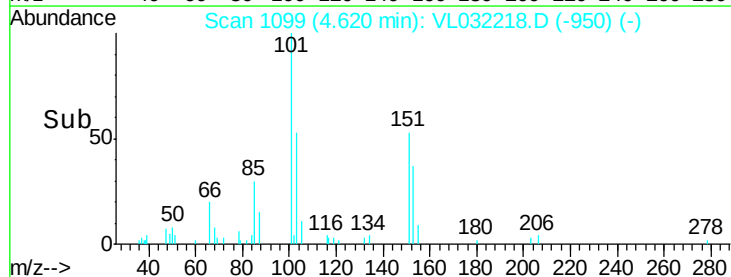
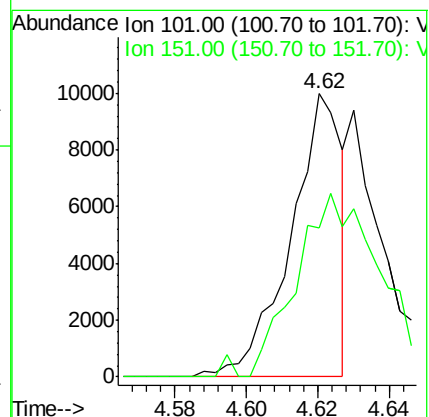
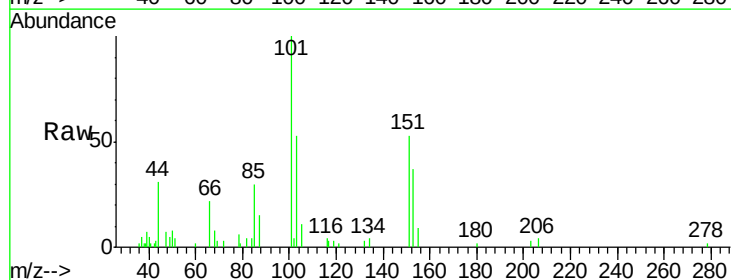
Acq: 6 Jul 2018 00:38

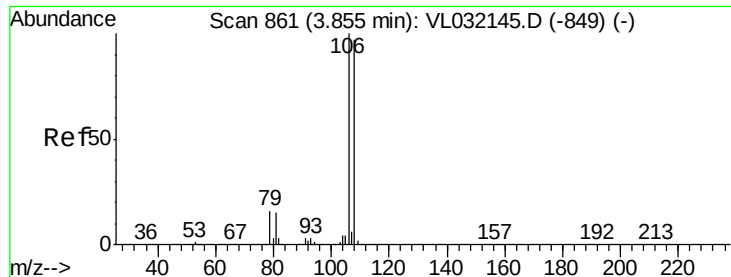
Tgt Ion:101 Resp: 9905

Ion Ratio Lower Upper

101 100

151 105.4 58.8 88.2#





#14

Bromoethene

Concen: 0.082 ppbv

RT: 3.85 min Scan# 859

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

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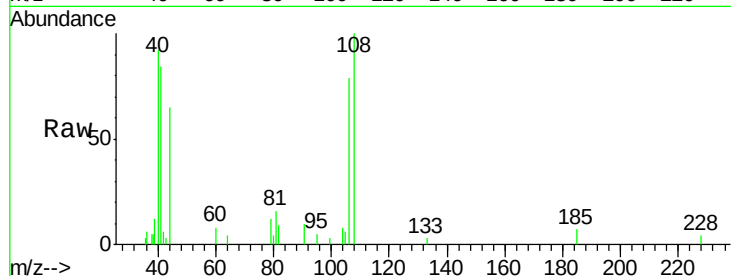
Tgt Ion:108 Resp: 5694

Ion Ratio Lower Upper

108 100

106 112.2 86.3 129.5

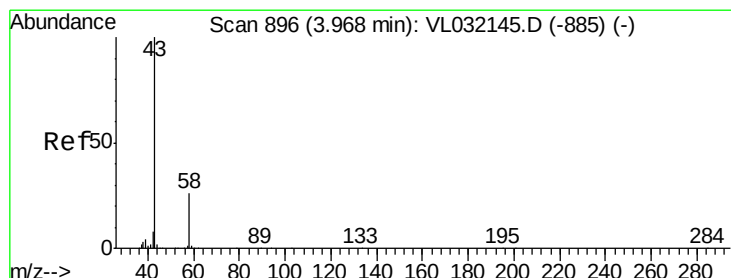
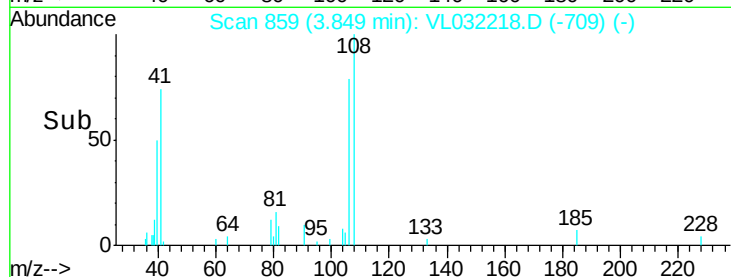
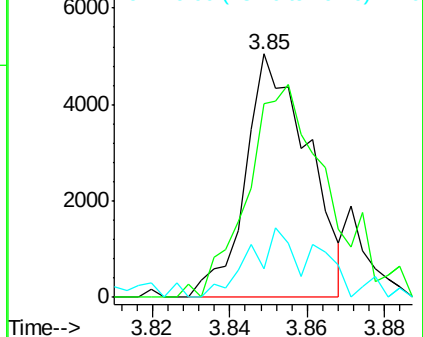
79 37.2 12.7 19.1#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 0.164 ppbv

RT: 3.99 min Scan# 904

Delta R.T. 0.02 min

Lab File: VL032218.D

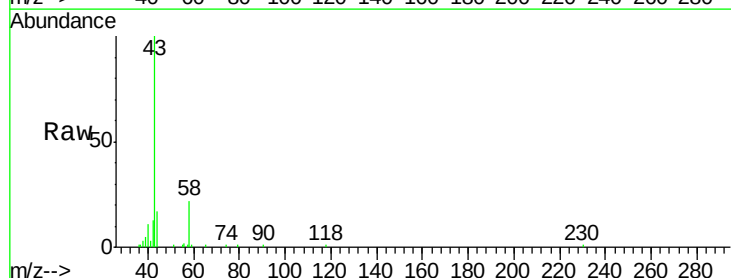
Acq: 6 Jul 2018 00:38

Tgt Ion: 43 Resp: 29640

Ion Ratio Lower Upper

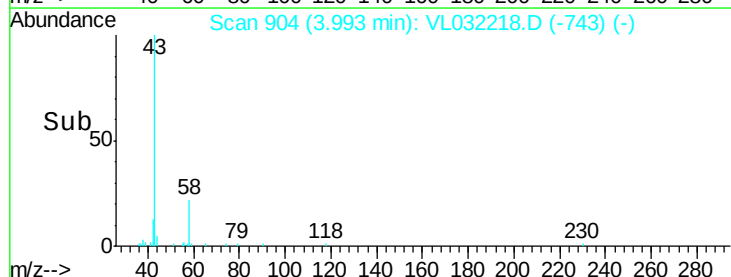
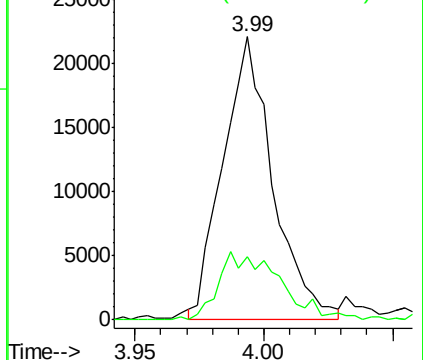
43 100

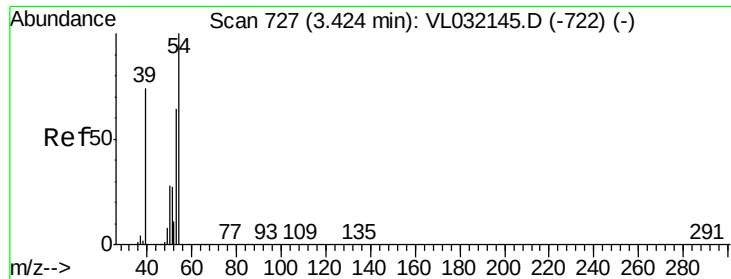
58 30.3 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

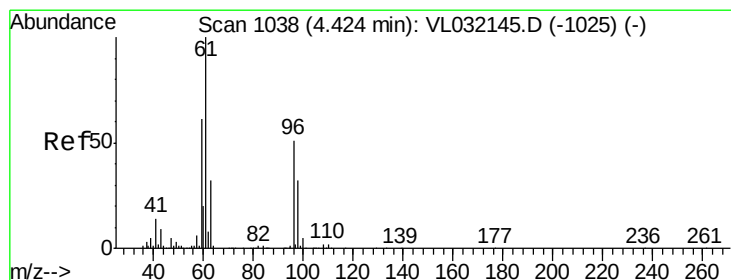
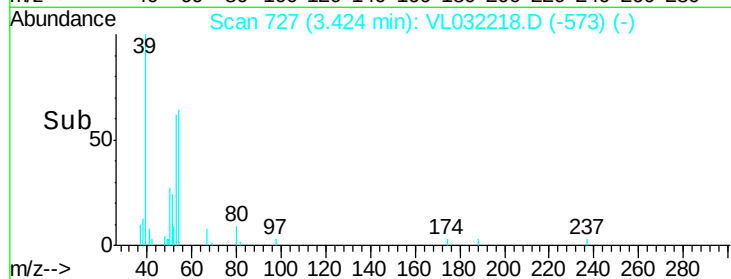
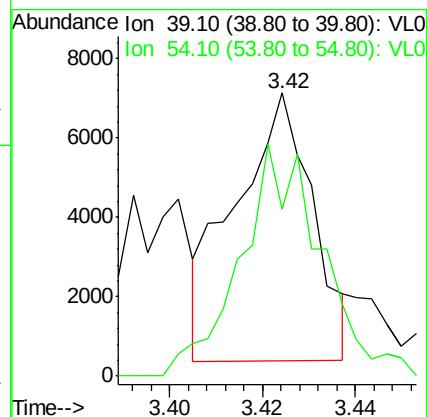
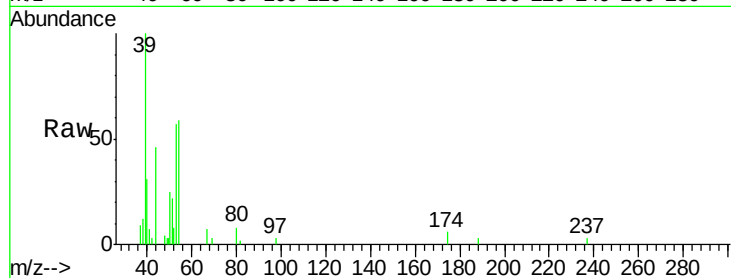




#16
 1,3-Butadiene
 Concen: 0.092 ppbv
 RT: 3.42 min Scan# 727
 Delta R.T. -0.01 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

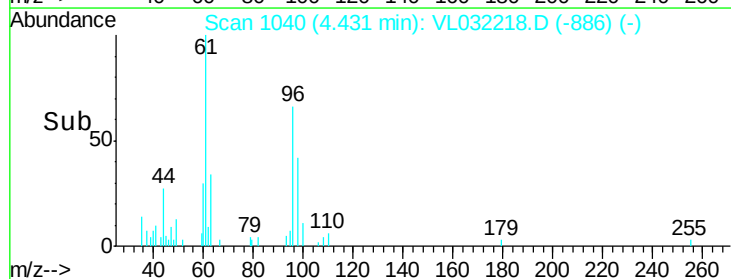
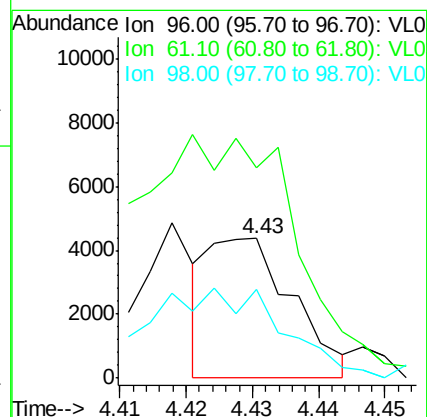
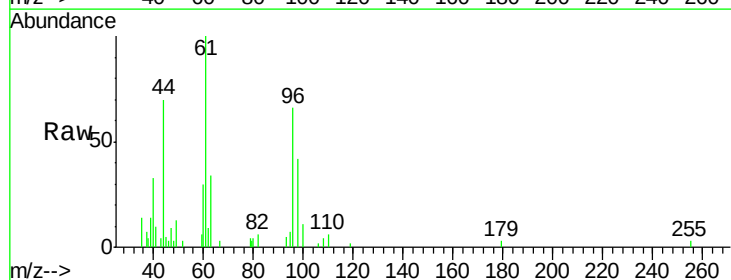
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2018

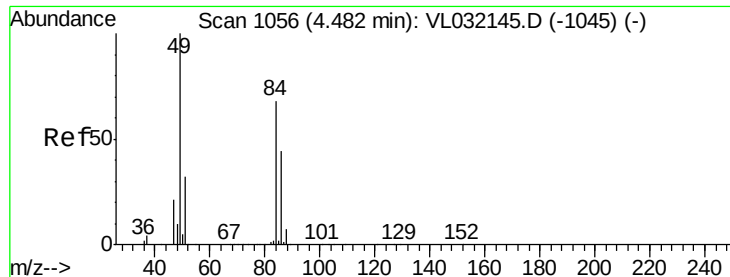
Tgt Ion: 39 Resp: 7884
 Ion Ratio Lower Upper
 39 100
 54 91.1 75.8 113.6



#18
 1,1-Dichloroethene
 Concen: 0.055 ppbv
 RT: 4.43 min Scan# 1040
 Delta R.T. -0.00 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

Tgt Ion: 96 Resp: 3865
 Ion Ratio Lower Upper
 96 100
 61 156.2 154.1 231.1
 98 67.7 50.3 75.5

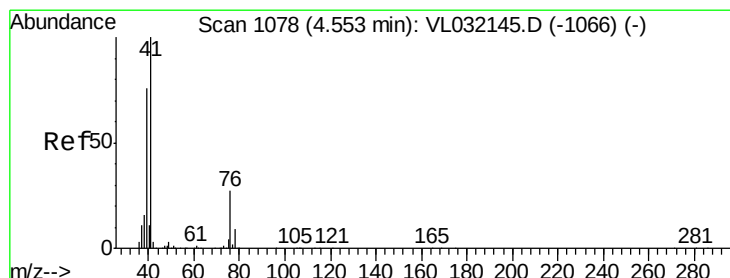
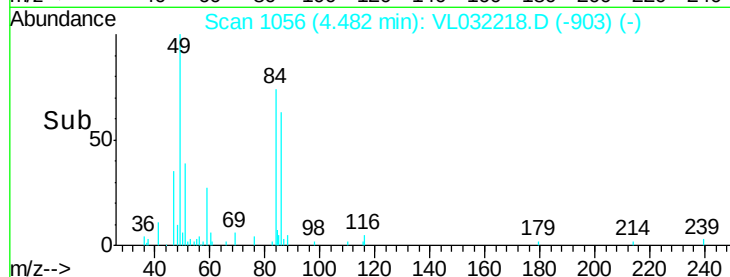
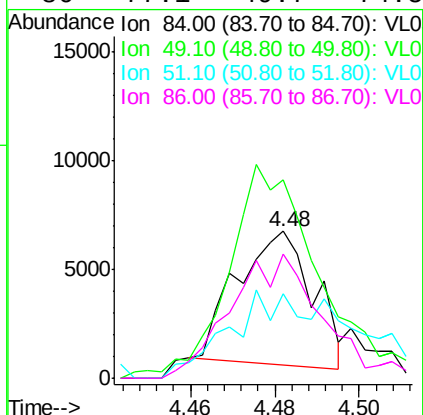
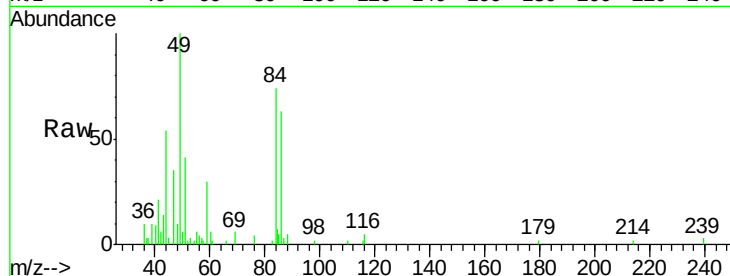




#20
Methylene Chloride
Concen: 0.116 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

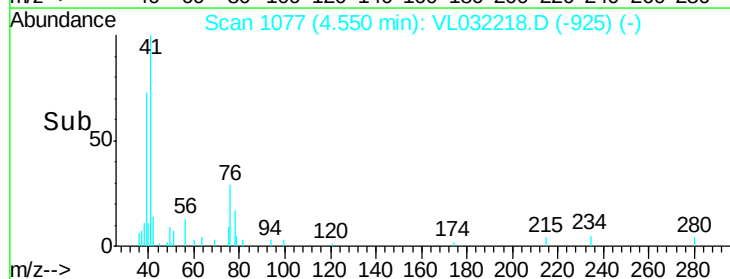
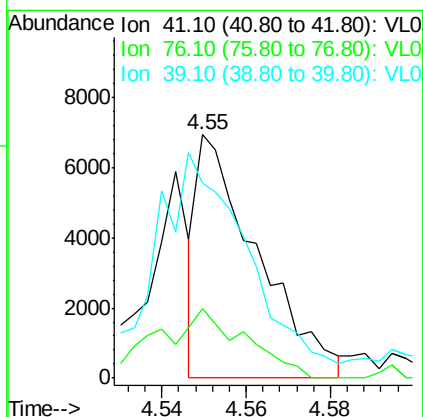
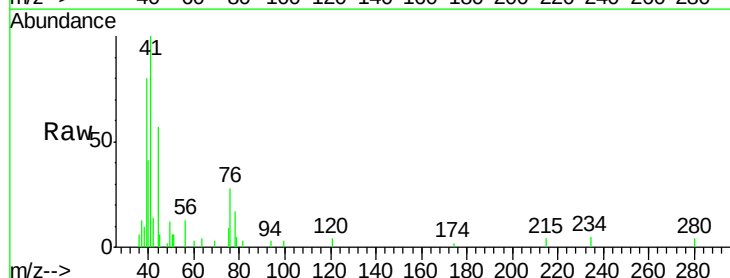
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2018

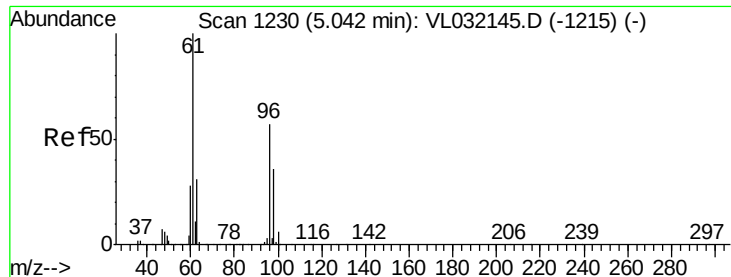
Tgt Ion: 84 Resp: 7643
Ion Ratio Lower Upper
84 100
49 128.8 119.6 179.4
51 49.3 36.3 54.5
86 77.1 49.7 74.5#



#21
Allyl Chloride
Concen: 0.056 ppbv
RT: 4.55 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

Tgt Ion: 41 Resp: 6887
Ion Ratio Lower Upper
41 100
76 41.7 22.5 33.7#
39 144.0 60.5 90.7#





#22

trans-1,2-Dichloroethene

Concen: 0.070 ppbv

RT: 5.04 min Scan# 1229

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

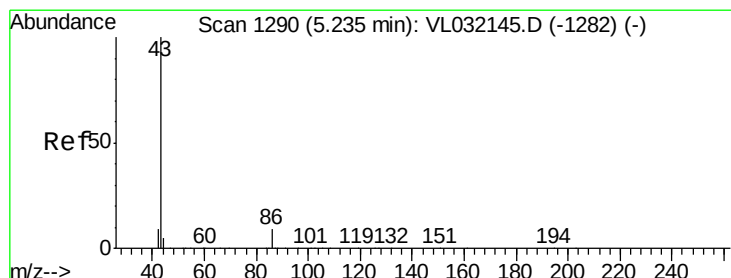
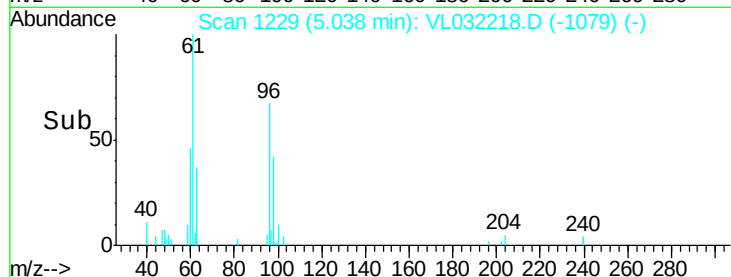
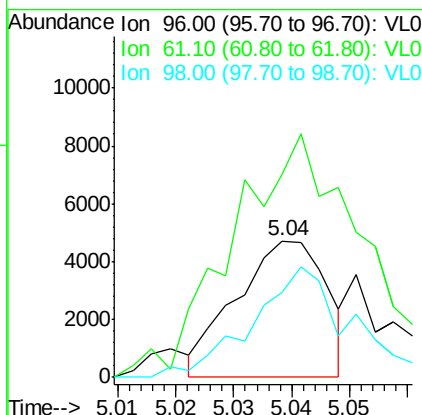
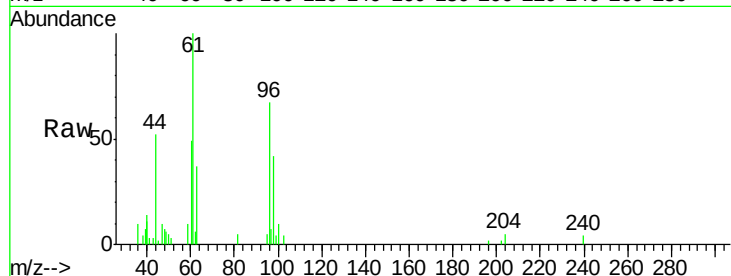
Tgt Ion: 96 Resp: 5140

Ion Ratio Lower Upper

96 100

61 118.4 135.2 202.8#

98 63.0 49.7 74.5



#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 5.24 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Tgt Ion: 43 Resp: 11234

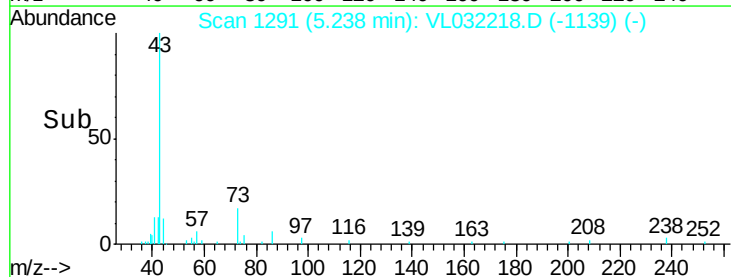
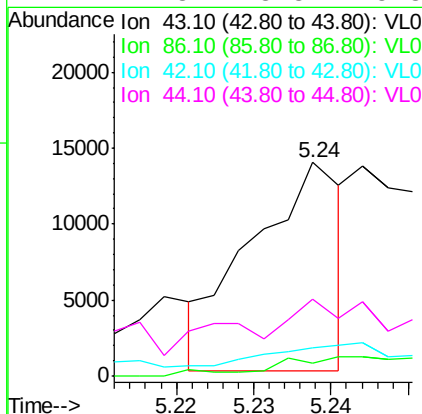
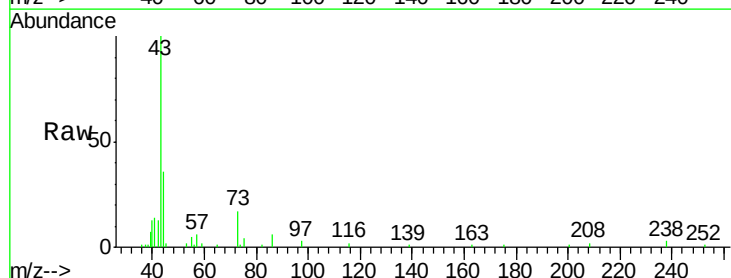
Ion Ratio Lower Upper

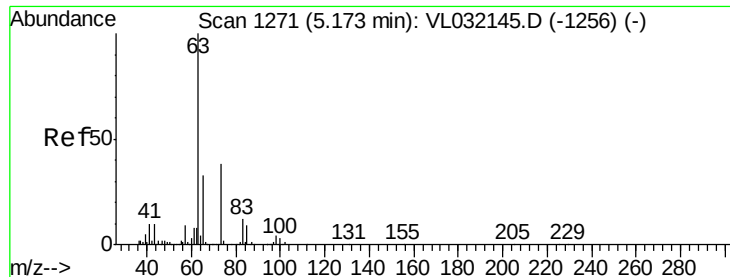
43 100

86 5.1 6.2 9.4#

42 12.4 6.9 10.3#

44 22.8 3.8 5.8#





#24

1,1-Dichloroethane

Concen: 0.105 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

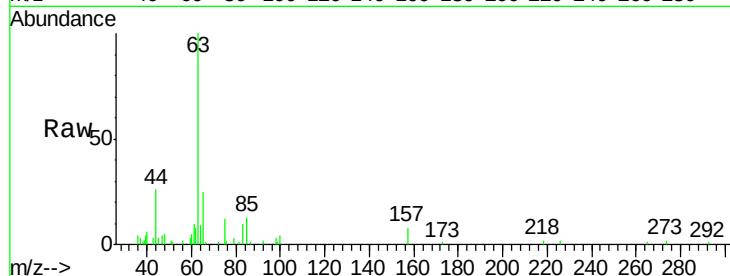
Tgt Ion: 63 Resp: 21978

Ion Ratio Lower Upper

63 100

98 3.9 2.4 7.2

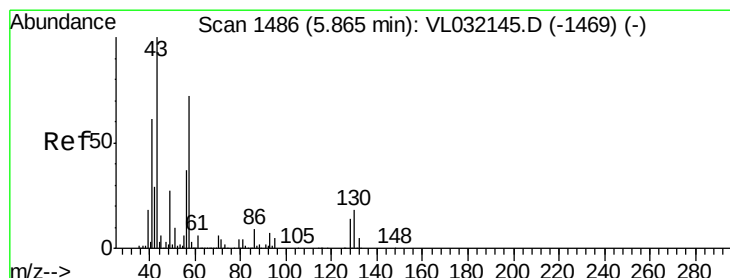
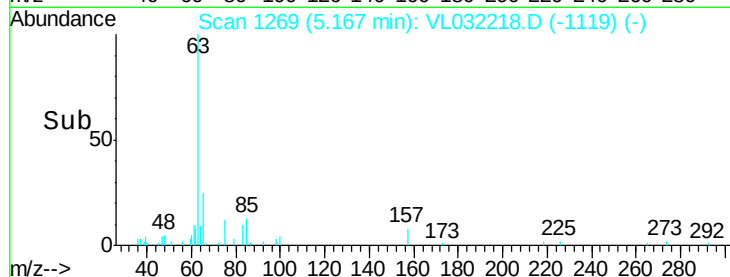
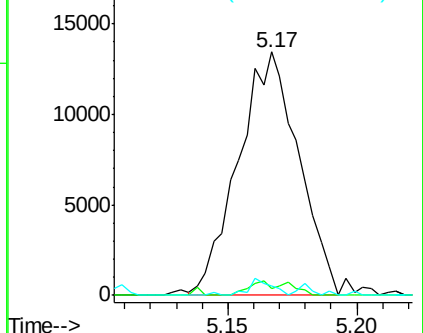
100 4.0 1.7 5.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#26

Hexane

Concen: 0.106 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Tgt Ion: 57 Resp: 18154

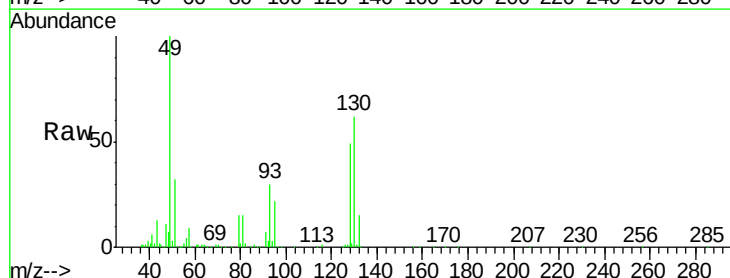
Ion Ratio Lower Upper

57 100

41 89.8 68.6 103.0

43 218.4 168.6 252.8

56 62.9 41.0 61.6#

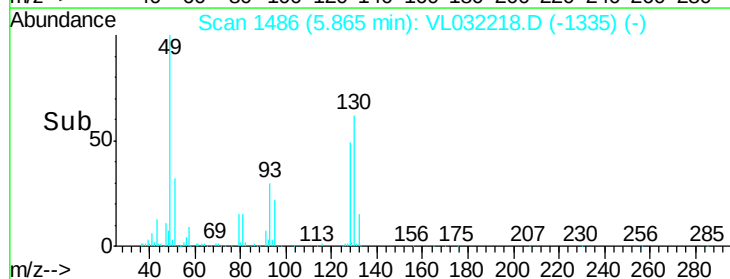
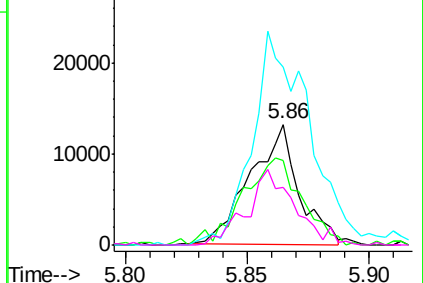


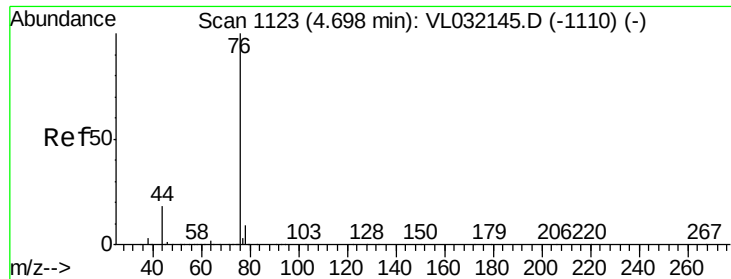
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

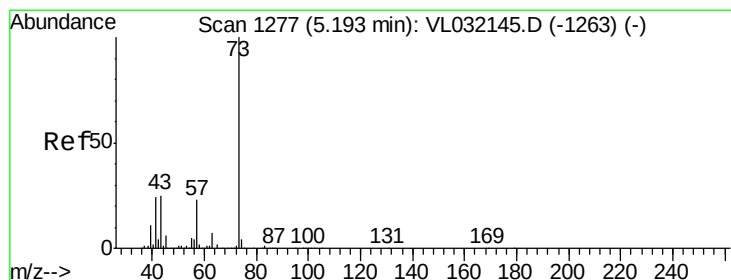
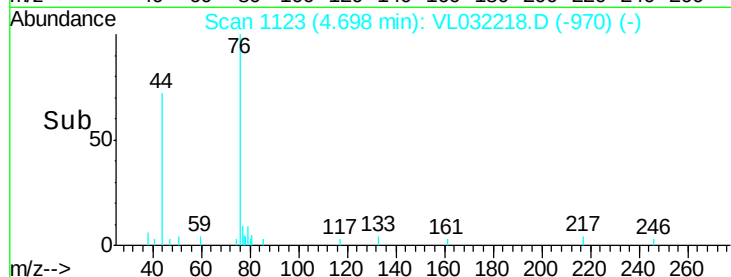
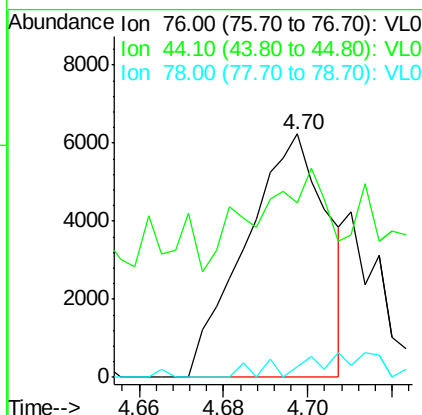
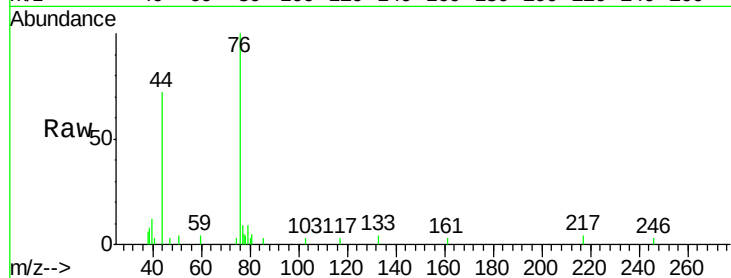




#27
Carbon Disulfide
Concen: 0.049 ppbv
RT: 4.70 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

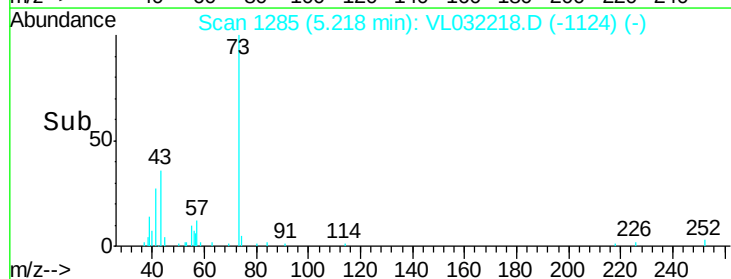
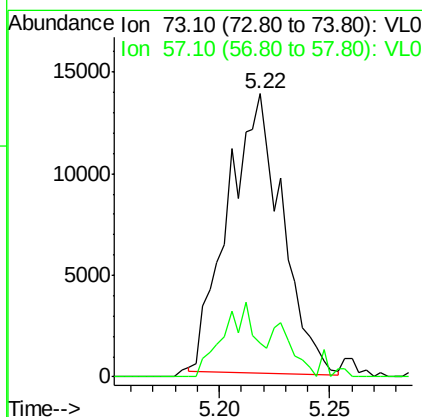
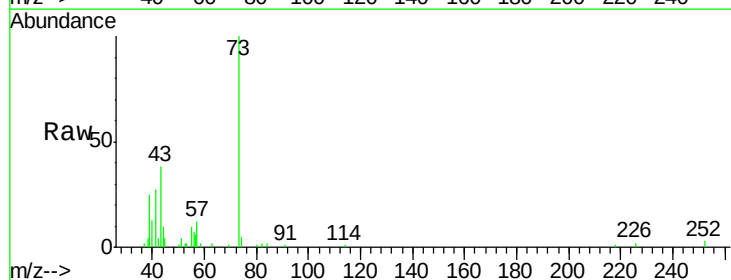
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2018

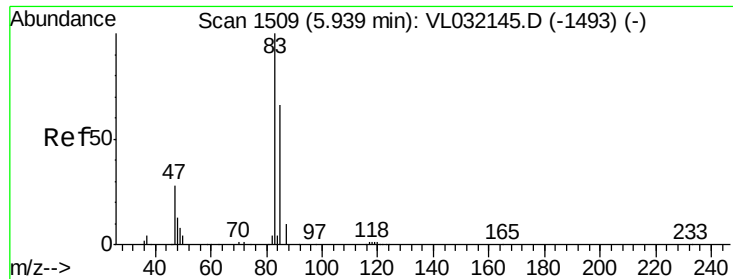
Tgt Ion: 76 Resp: 8336
Ion Ratio Lower Upper
76 100
44 95.6 15.1 22.7#
78 0.0 7.2 10.8#



#28
Methyl tert-Butyl Ether
Concen: 0.078 ppbv
RT: 5.22 min Scan# 1285
Delta R.T. 0.02 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

Tgt Ion: 73 Resp: 23522
Ion Ratio Lower Upper
73 100
57 25.7 18.6 27.8

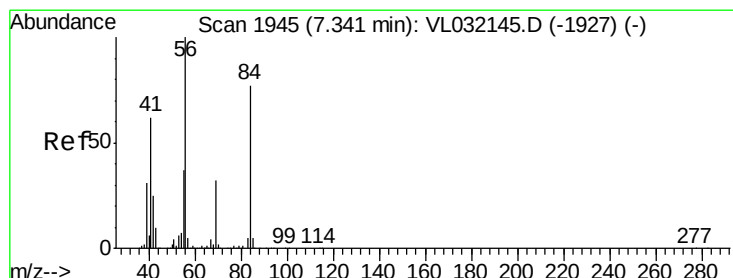
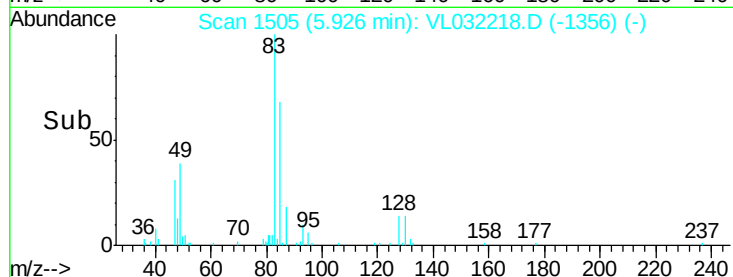
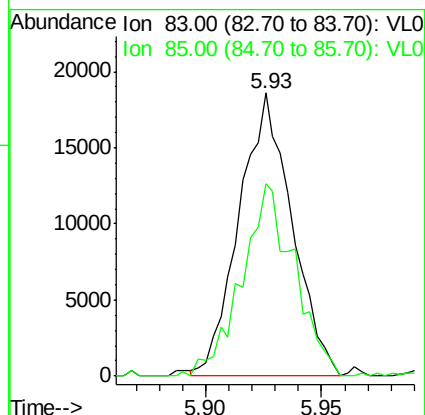
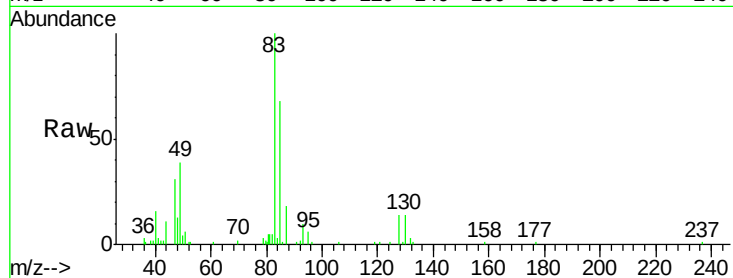




#29
Chloroform
Concen: 0.118 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. -0.02 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

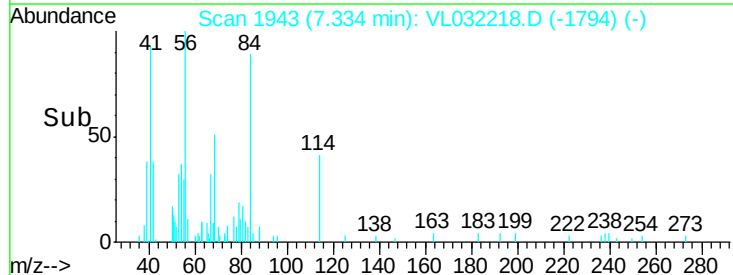
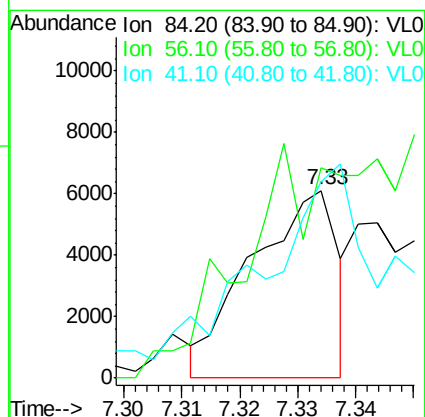
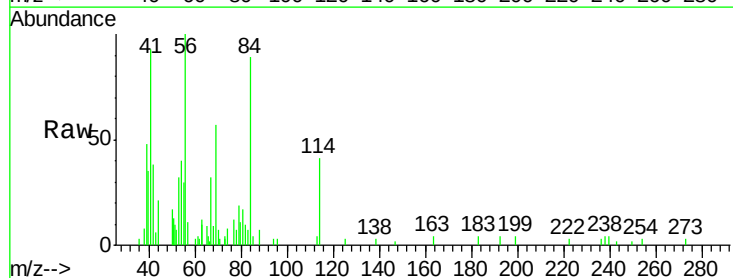
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2018

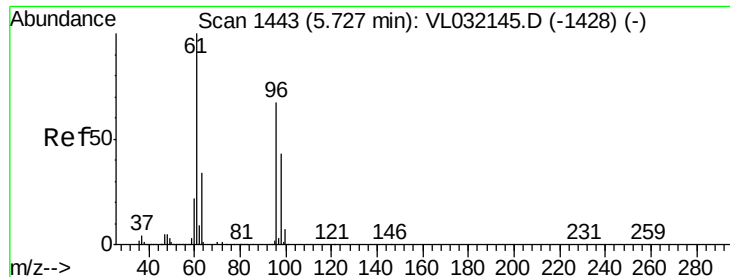
Tgt Ion: 83 Resp: 29504
Ion Ratio Lower Upper
83 100
85 69.3 51.6 77.4



#30
Cyclohexane
Concen: 0.039 ppbv
RT: 7.33 min Scan# 1943
Delta R.T. -0.02 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

Tgt Ion: 84 Resp: 6273
Ion Ratio Lower Upper
84 100
56 0.0 109.1 163.7#
41 208.6 64.6 96.8#





#31

cis-1,2-Dichloroethene

Concen: 0.059 ppbv

RT: 5.72 min Scan# 1441

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

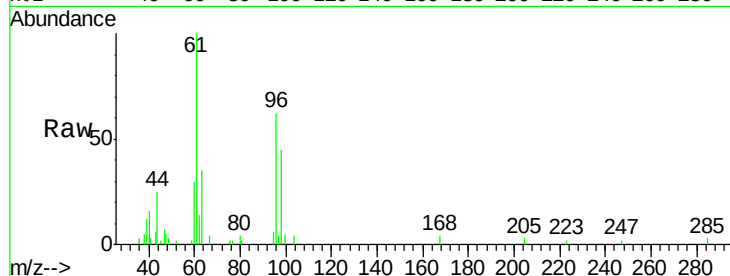
Tgt Ion: 61 Resp: 10153

Ion Ratio Lower Upper

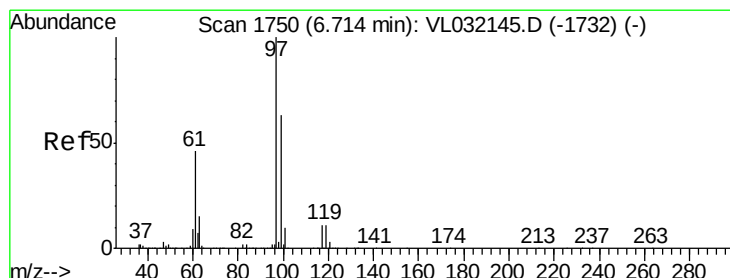
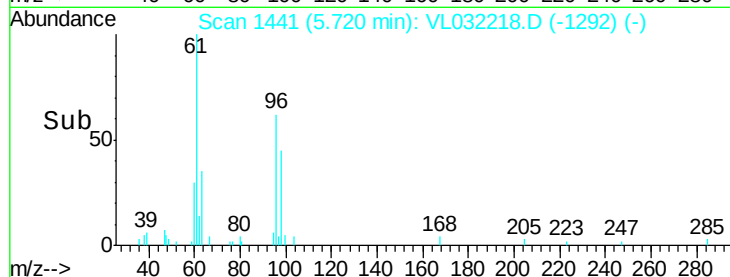
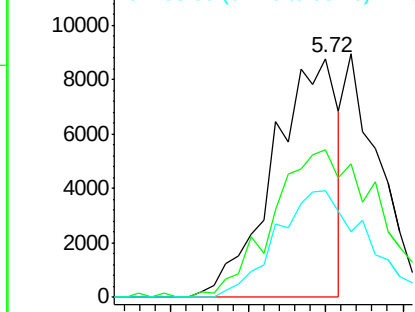
61 100

96 65.5 54.2 81.4

98 44.9 34.6 52.0



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.104 ppbv

RT: 6.71 min Scan# 1748

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

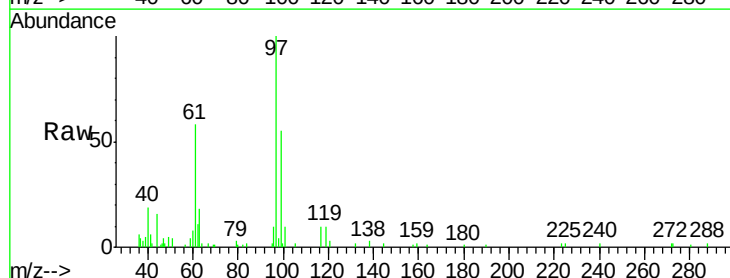
Tgt Ion: 97 Resp: 27202

Ion Ratio Lower Upper

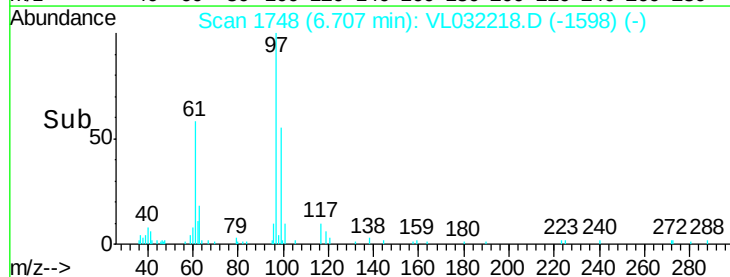
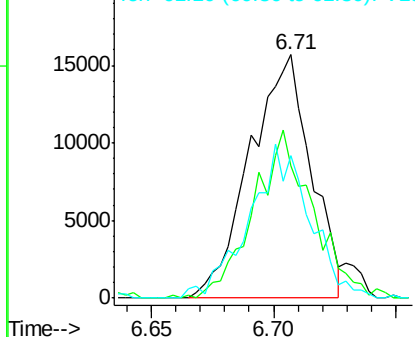
97 100

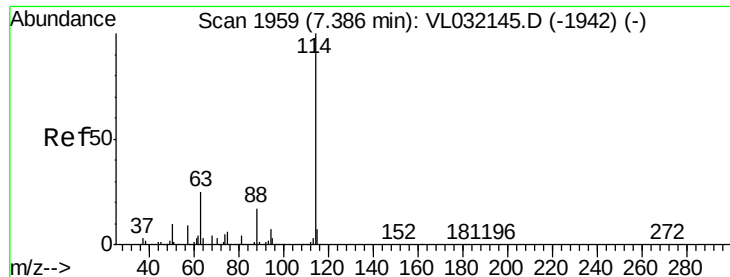
99 67.2 51.3 76.9

61 63.1 38.4 57.6#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

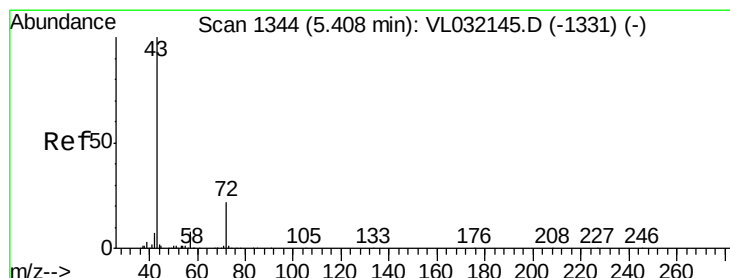
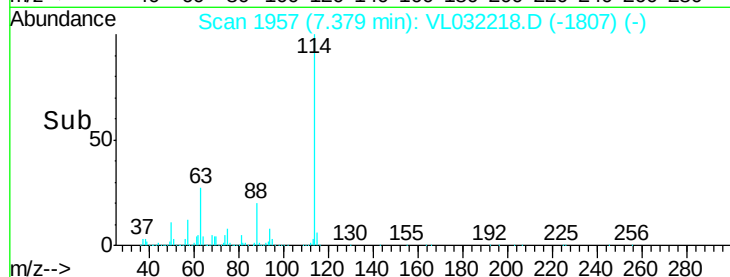
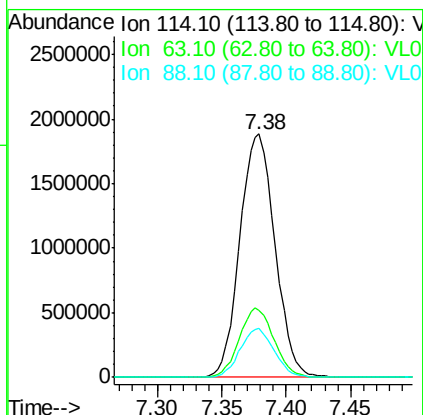
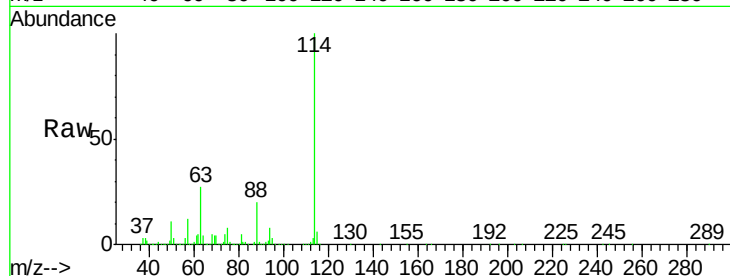




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.02 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

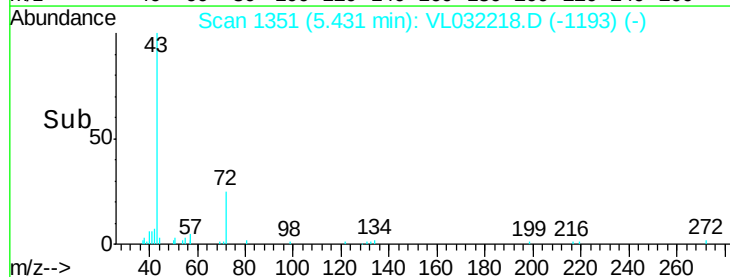
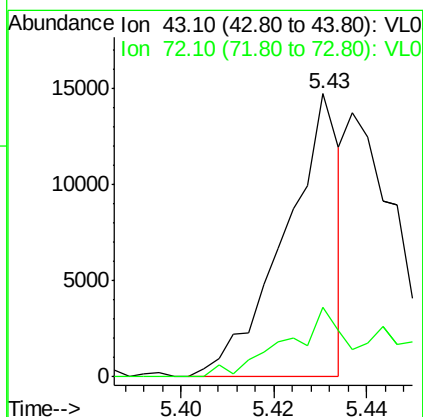
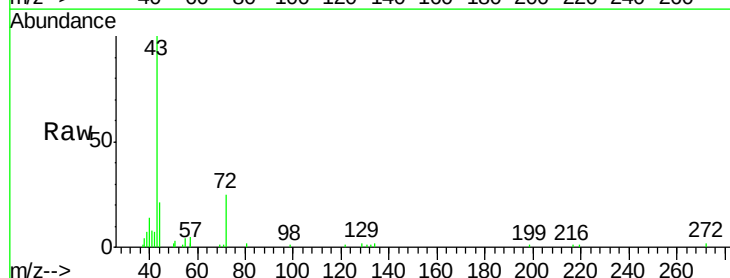
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2018

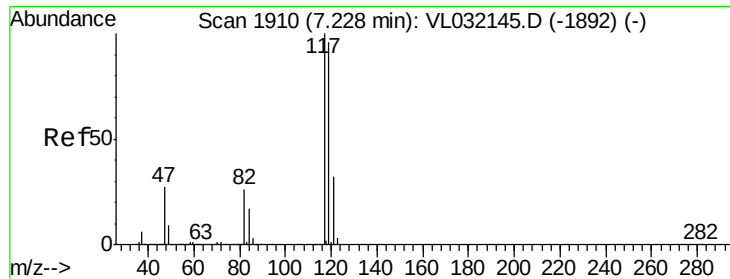
Tgt Ion:114 Resp: 3572799
 Ion Ratio Lower Upper
 114 100
 63 28.1 19.1 28.7
 88 19.5 13.9 20.9



#34
 2-Butanone
 Concen: 0.053 ppbv
 RT: 5.43 min Scan# 1351
 Delta R.T. 0.01 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

Tgt Ion: 43 Resp: 12101
 Ion Ratio Lower Upper
 43 100
 72 45.2 18.4 27.6#





#35

Carbon Tetrachloride

Concen: 0.041 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

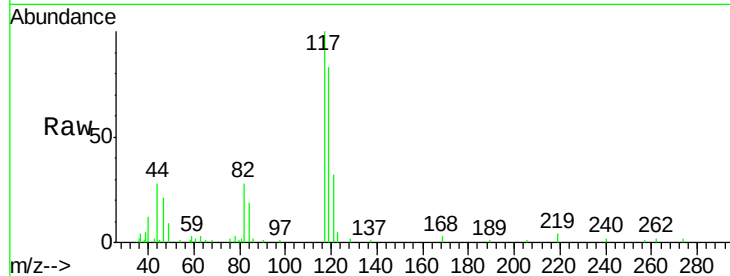
Tgt Ion:117 Resp: 10021

Ion Ratio Lower Upper

117 100

119 82.9 74.8 112.2

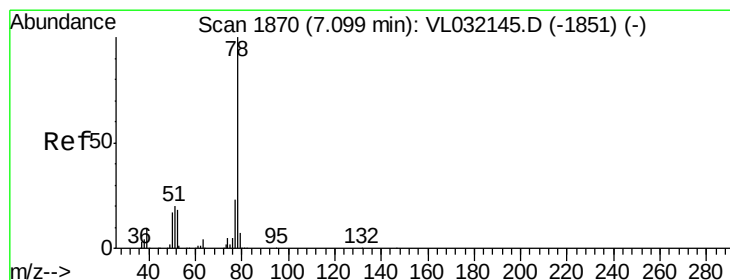
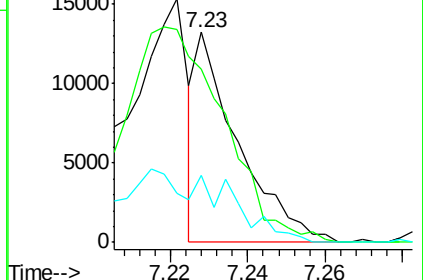
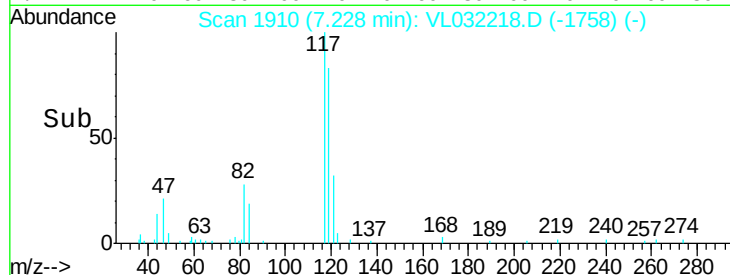
121 32.0 24.0 36.0



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: 0.058 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

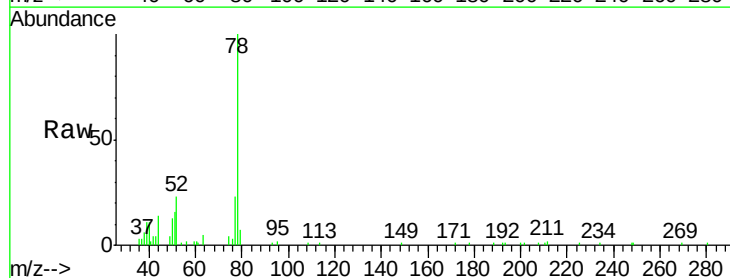
Tgt Ion: 78 Resp: 20171

Ion Ratio Lower Upper

78 100

77 21.4 17.7 26.5

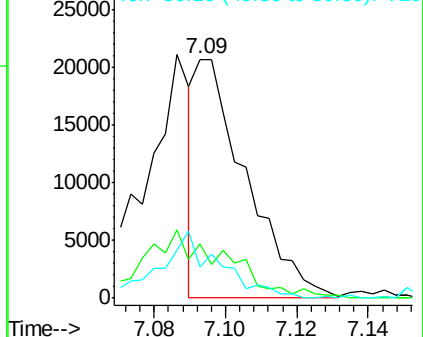
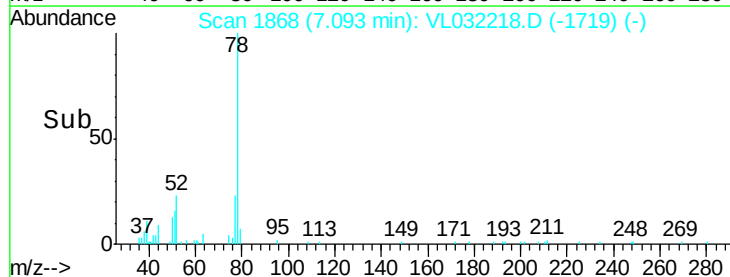
50 12.9 14.0 21.0#

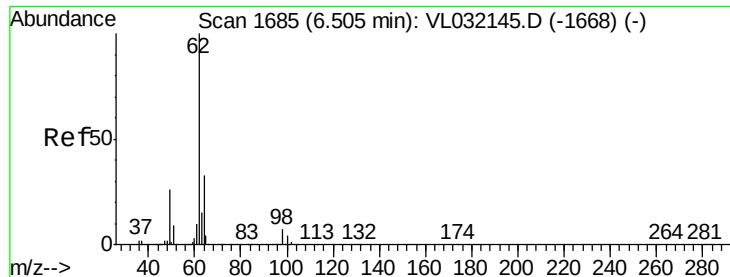


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

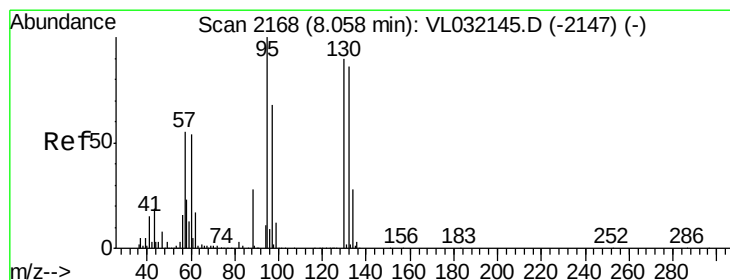
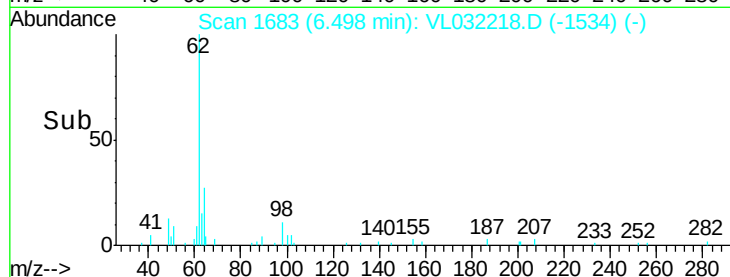
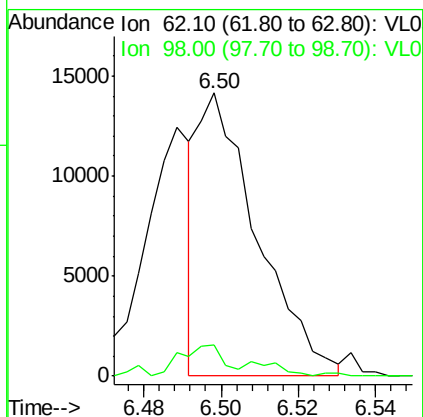
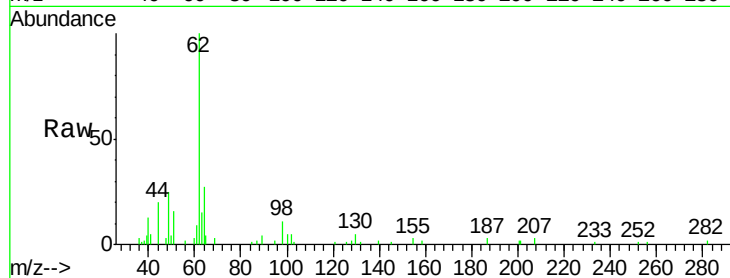




#37
 1,2-Dichloroethane
 Concen: 0.087 ppbv
 RT: 6.50 min Scan# 1683
 Delta R.T. -0.02 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

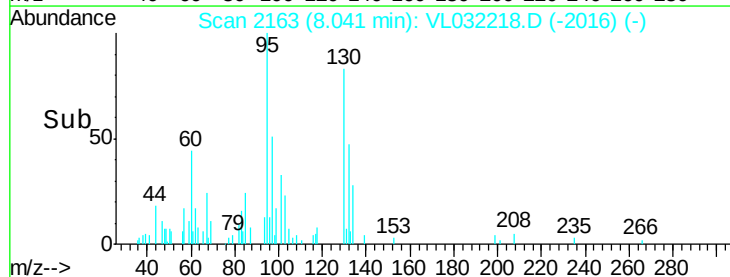
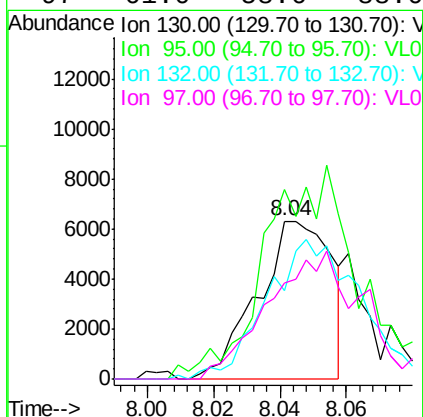
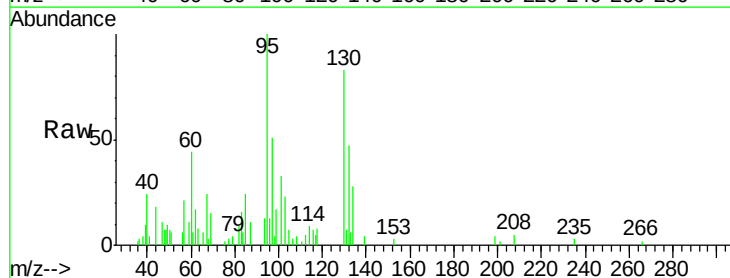
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2018

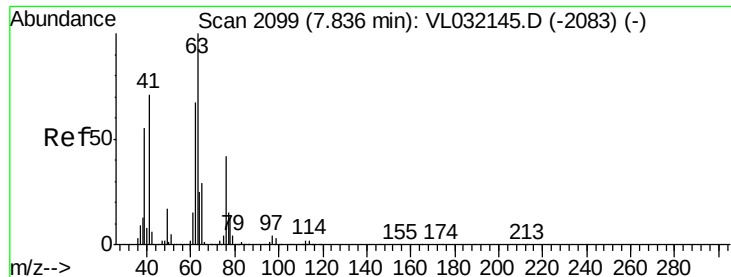
Tgt Ion: 62 Resp: 15017
 Ion Ratio Lower Upper
 62 100
 98 13.8 5.8 8.6#



#38
 Trichloroethene
 Concen: 0.072 ppbv
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.03 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

Tgt Ion: 130 Resp: 9716
 Ion Ratio Lower Upper
 130 100
 95 115.4 88.1 132.1
 132 56.1 74.6 112.0#
 97 61.0 58.6 88.0





#39

1,2-Dichloropropane

Concen: 7.240 ppbv

RT: 7.38 min Scan# 1956

Delta R.T. -0.47 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

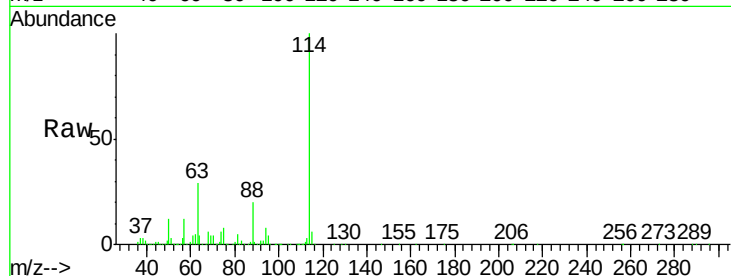
Tgt Ion: 63 Resp: 987468

Ion Ratio Lower Upper

63 100

41 0.1 53.3 79.9#

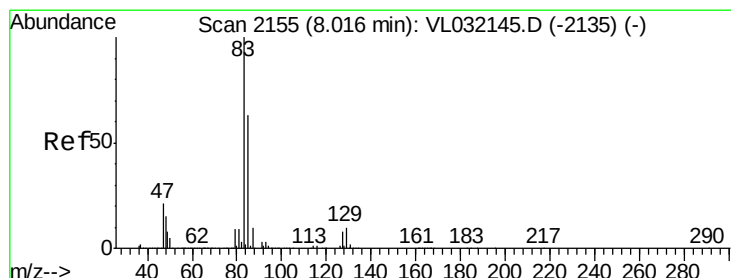
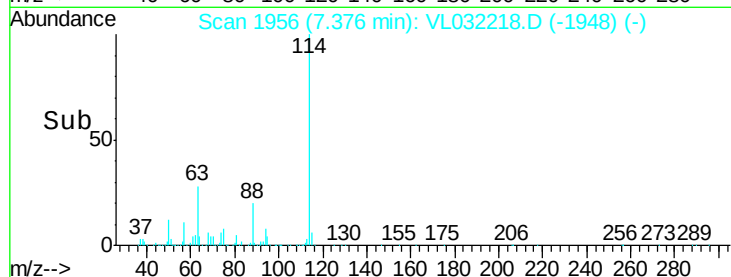
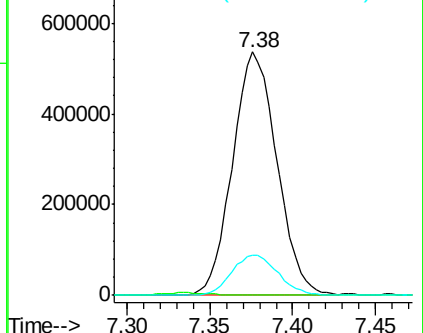
62 16.5 54.8 82.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#42

Bromodichloromethane

Concen: 0.062 ppbv

RT: 8.00 min Scan# 2151

Delta R.T. -0.03 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

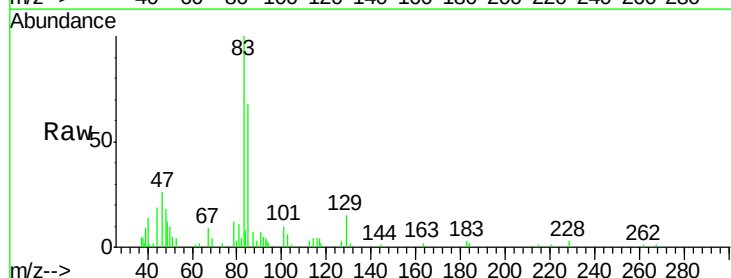
Tgt Ion: 83 Resp: 16866

Ion Ratio Lower Upper

83 100

85 65.1 52.6 79.0

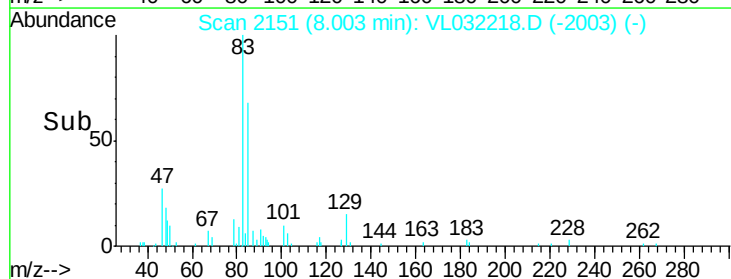
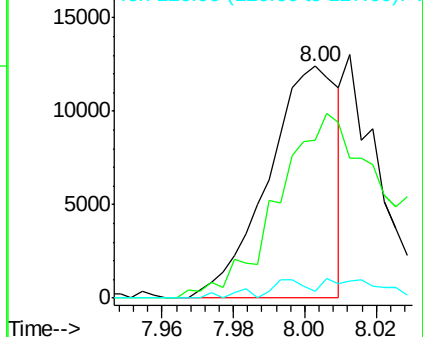
127 3.2 6.5 9.7#

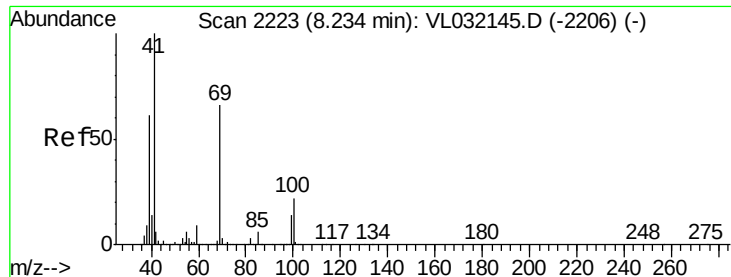


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

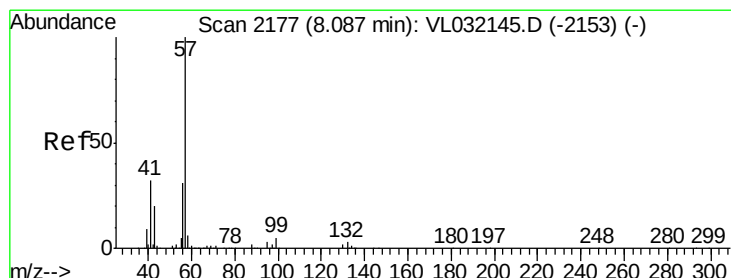
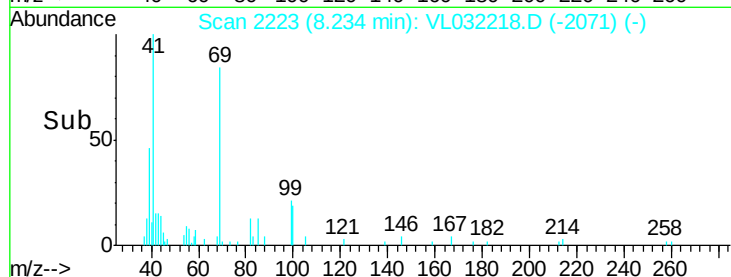
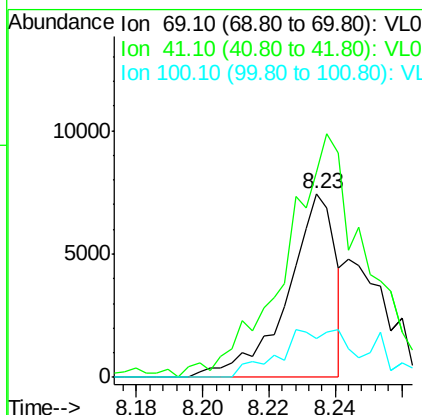
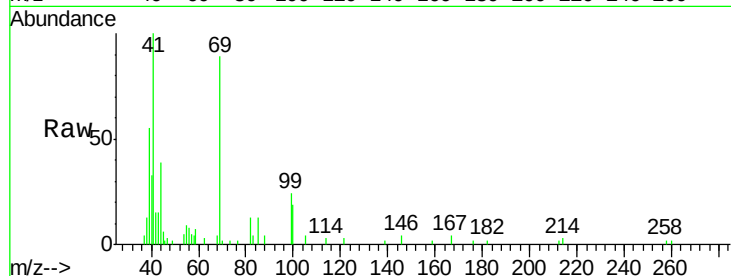




#43
Methyl Methacrylate
Concen: 0.053 ppbv
RT: 8.23 min Scan# 2223
Delta R.T. -0.01 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

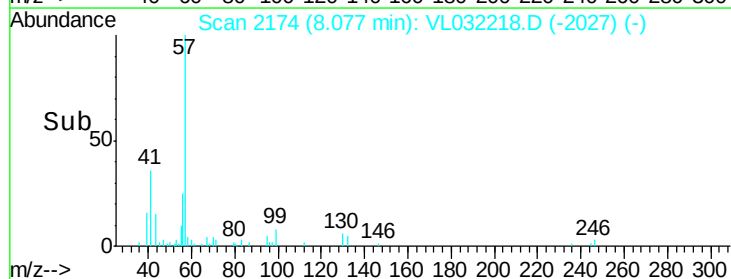
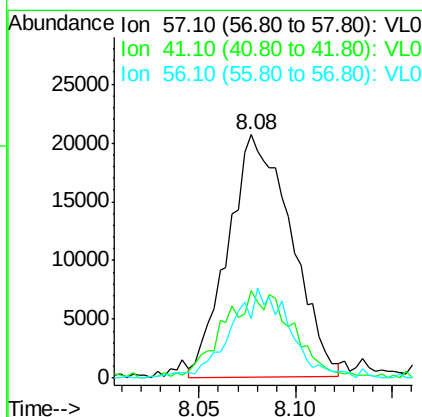
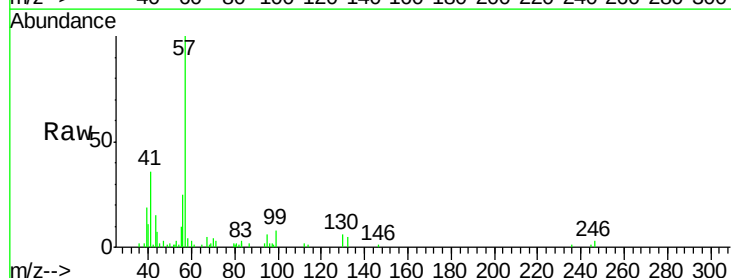
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2018

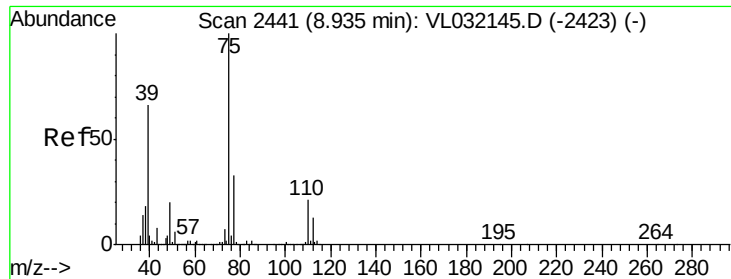
Tgt Ion: 69 Resp: 7526
Ion Ratio Lower Upper
69 100
41 0.0 118.2 177.4#
100 0.0 27.4 41.2#



#44
2,2,4-Trimethylpentane
Concen: 0.078 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. -0.03 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

Tgt Ion: 57 Resp: 46974
Ion Ratio Lower Upper
57 100
41 39.5 24.3 36.5#
56 35.1 25.1 37.7





#46

cis-1,3-Dichloropropene

Concen: 0.039 ppbv

RT: 8.93 min Scan# 2438

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

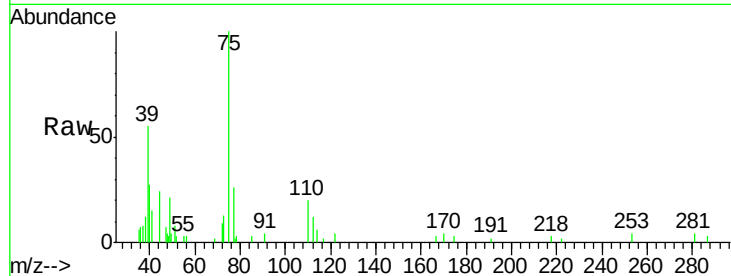
Tgt Ion: 75 Resp: 8374

Ion Ratio Lower Upper

75 100

39 48.4 51.9 77.9#

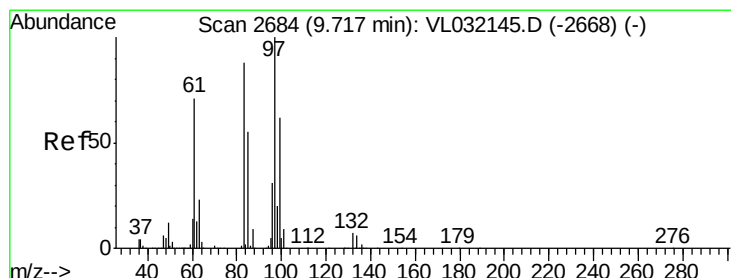
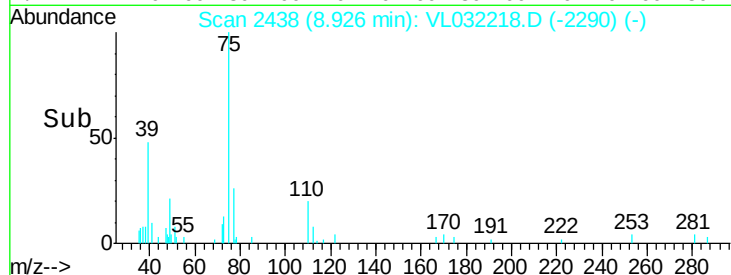
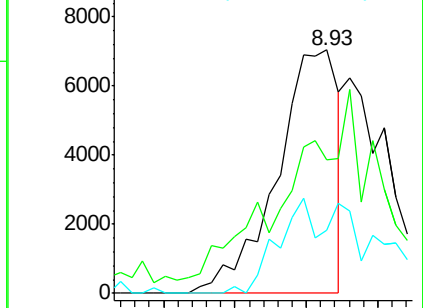
77 25.7 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



#47

1,1,2-Trichloroethane

Concen: 0.068 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Tgt Ion: 97 Resp: 9685

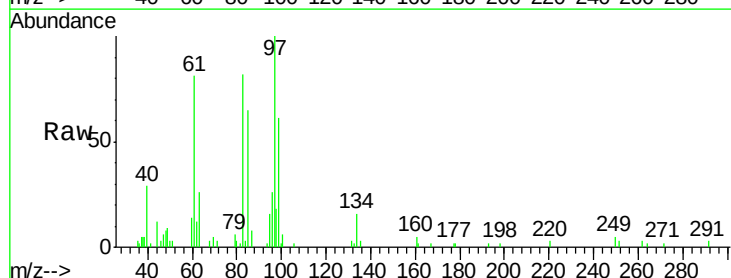
Ion Ratio Lower Upper

97 100

83 59.6 71.0 106.4#

85 64.6 44.2 66.4

99 63.4 49.2 73.8

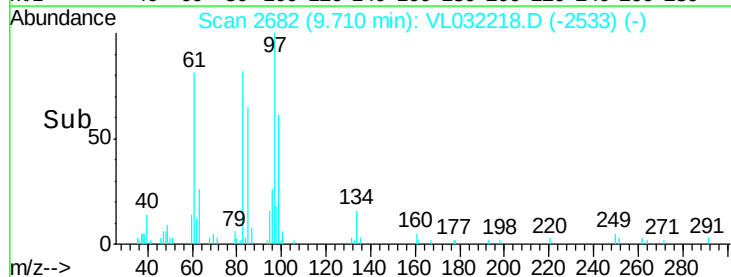
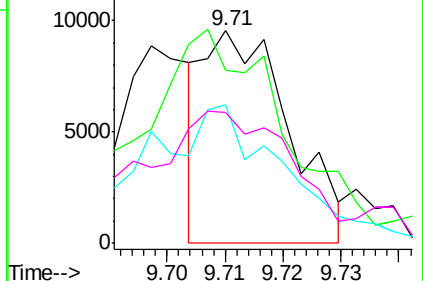


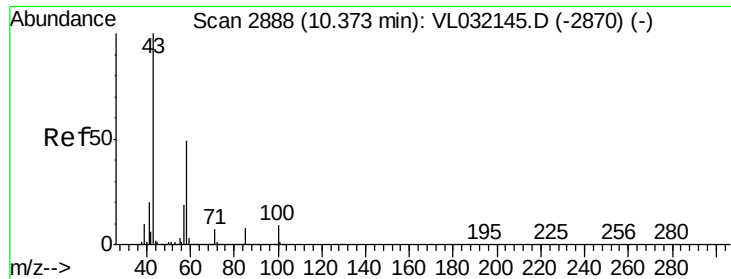
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

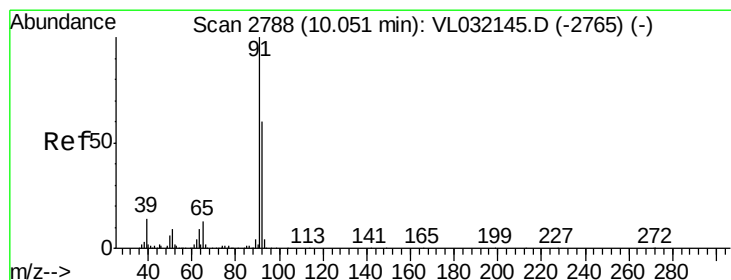
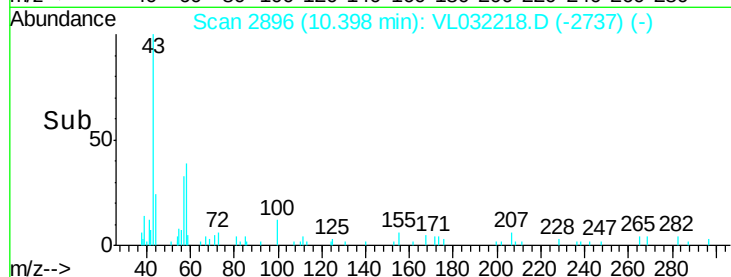
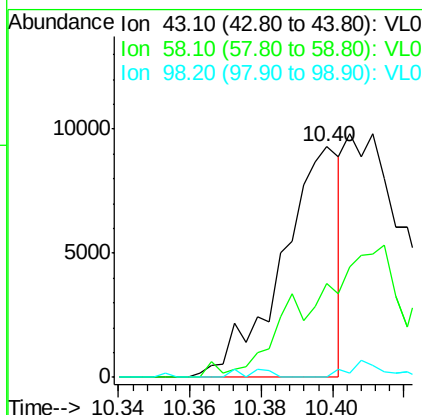
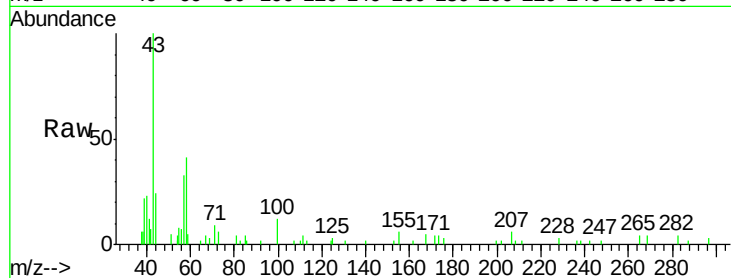




#51
2-Hexanone
Concen: 0.034 ppbv
RT: 10.40 min Scan# 2896
Delta R.T. 0.01 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

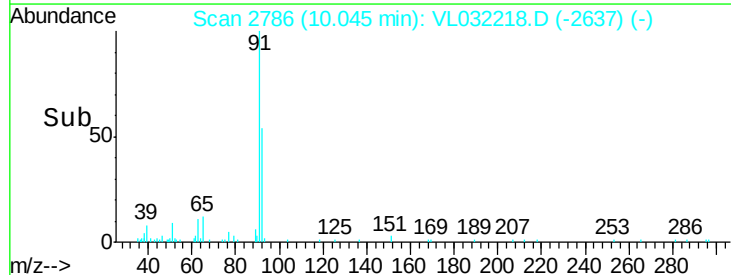
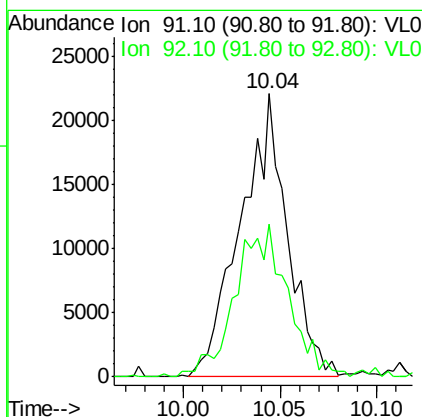
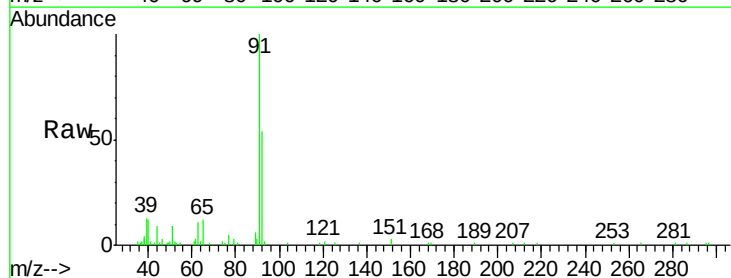
Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT3-2018

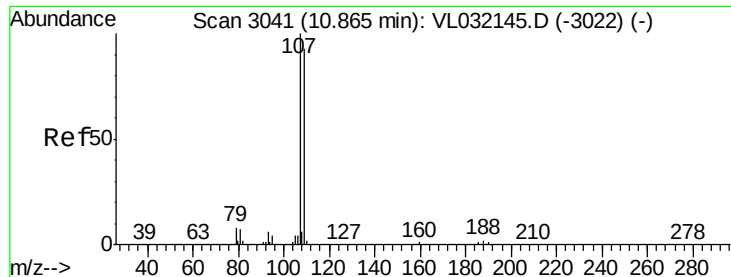
Tgt Ion: 43 Resp: 10532
Ion Ratio Lower Upper
43 100
58 0.0 40.6 60.8#
98 1.7 0.1 0.1#



#53
Toluene
Concen: 0.089 ppbv
RT: 10.04 min Scan# 2786
Delta R.T. -0.02 min
Lab File: VL032218.D
Acq: 6 Jul 2018 00:38

Tgt Ion: 91 Resp: 37258
Ion Ratio Lower Upper
91 100
92 61.9 49.2 73.8

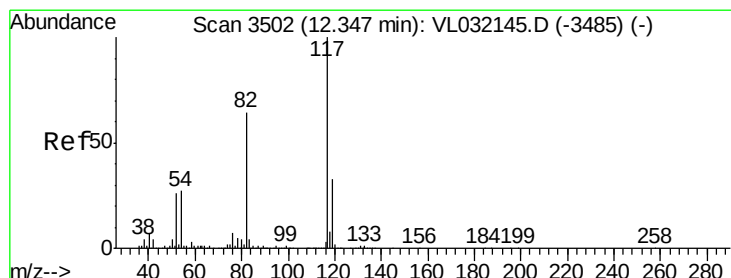
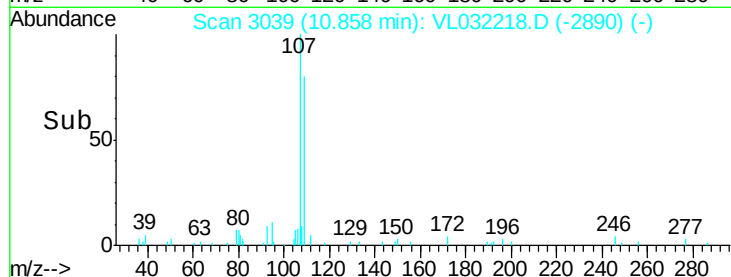
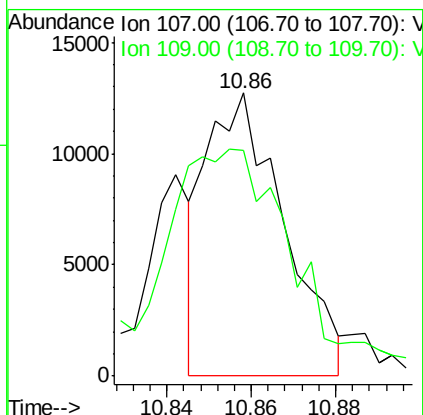
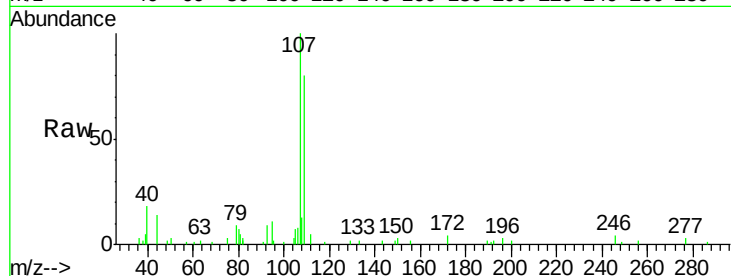




#54
 1,2-Dibromoethane
 Concen: 0.077 ppbv
 RT: 10.86 min Scan# 3039
 Delta R.T. -0.02 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

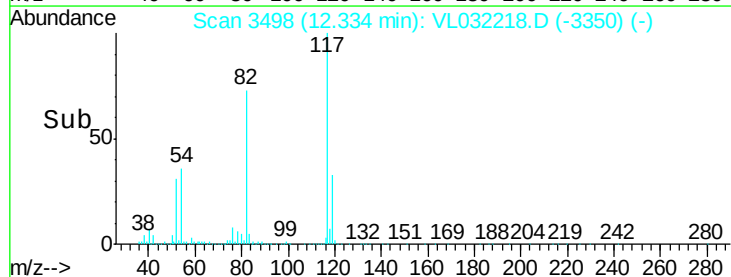
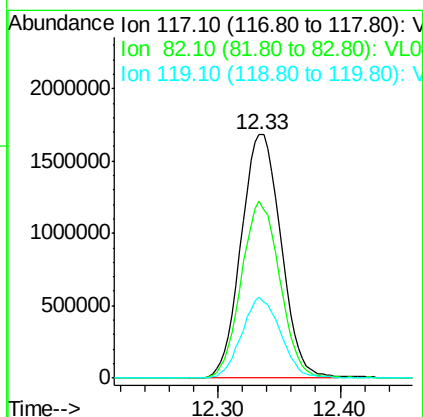
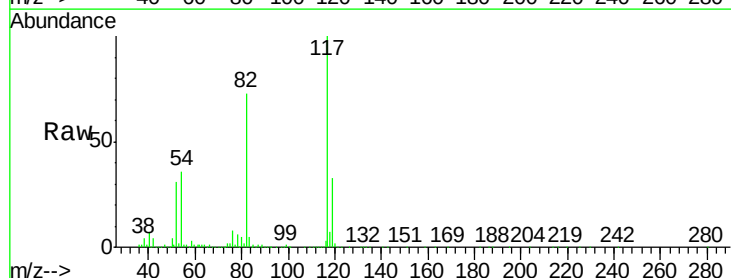
Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2018

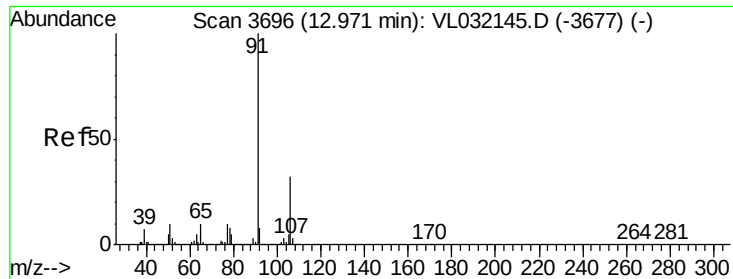
Tgt Ion:107 Resp: 16311
 Ion Ratio Lower Upper
 107 100
 109 84.9 75.0 112.4



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.33 min Scan# 3498
 Delta R.T. -0.03 min
 Lab File: VL032218.D
 Acq: 6 Jul 2018 00:38

Tgt Ion:117 Resp: 3805331
 Ion Ratio Lower Upper
 117 100
 82 70.8 47.8 71.8
 119 32.4 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.042 ppbv

RT: 12.95 min Scan# 3691

Delta R.T. -0.03 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

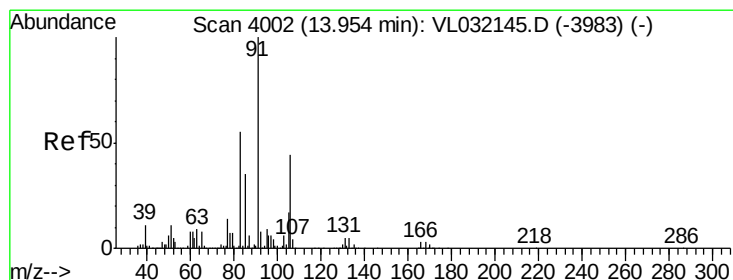
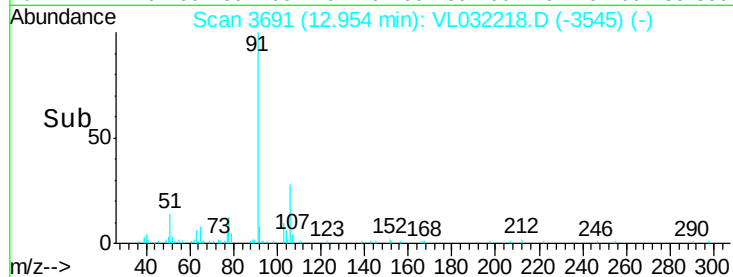
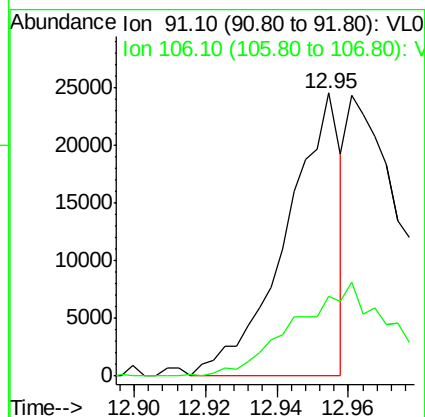
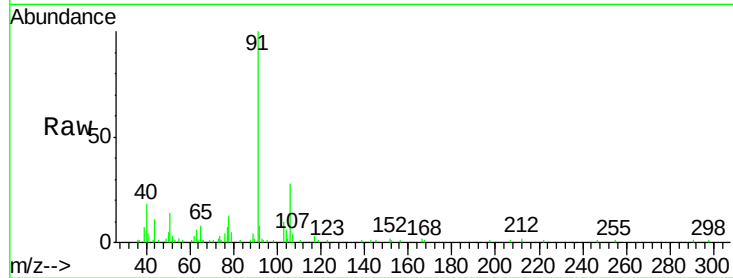
LOD-MDL-AIR-01-QT3-2018

Tgt Ion: 91 Resp: 26033

Ion Ratio Lower Upper

91 100

106 27.4 26.5 39.7



#60

o-Xylene

Concen: 0.055 ppbv

RT: 13.94 min Scan# 3997

Delta R.T. -0.03 min

Lab File: VL032218.D

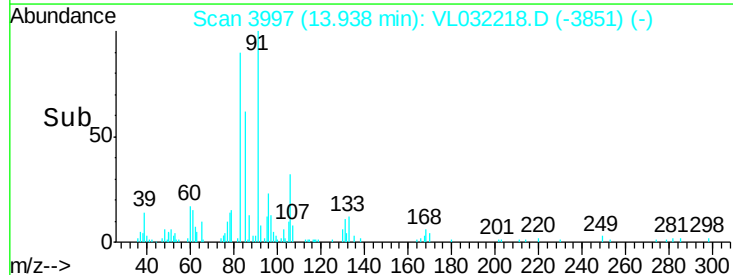
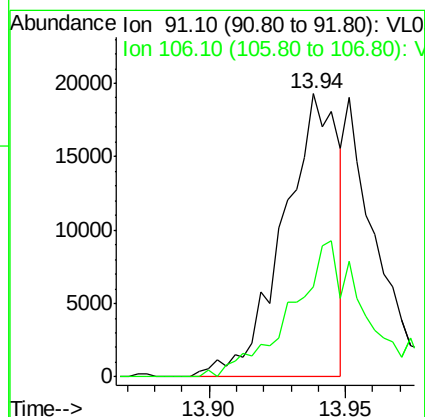
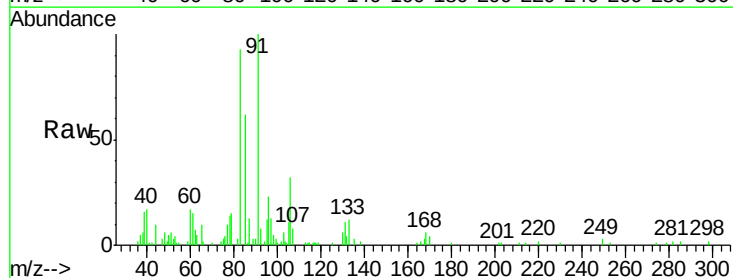
Acq: 6 Jul 2018 00:38

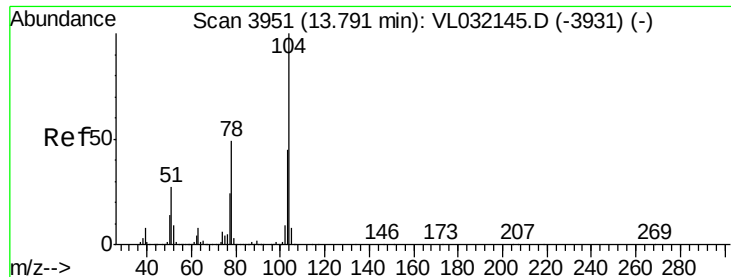
Tgt Ion: 91 Resp: 26774

Ion Ratio Lower Upper

91 100

106 0.0 23.3 69.8#





#61

Styrene

Concen: 0.041 ppbv

RT: 13.78 min Scan# 3947

Delta R.T. -0.03 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

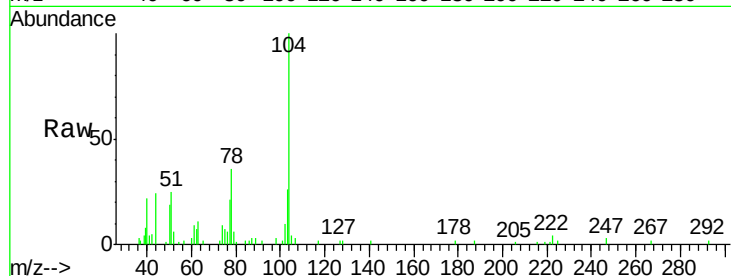
Tgt Ion:104 Resp: 16329

Ion Ratio Lower Upper

104 100

78 98.7 37.9 56.9#

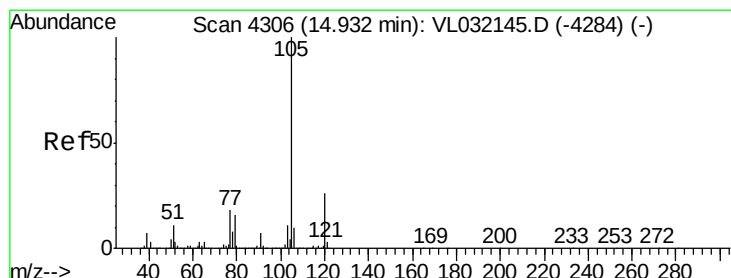
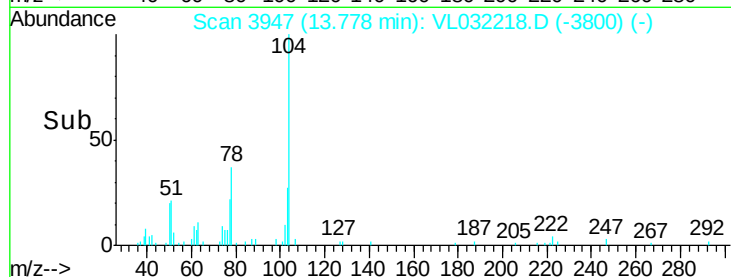
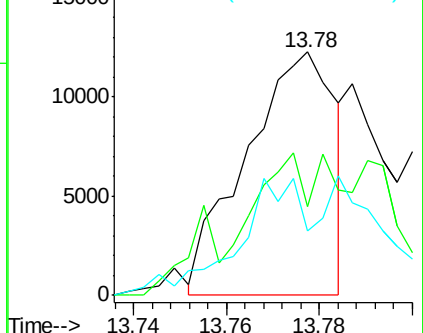
103 0.0 36.6 55.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.080 ppbv

RT: 14.92 min Scan# 4303

Delta R.T. -0.03 min

Lab File: VL032218.D

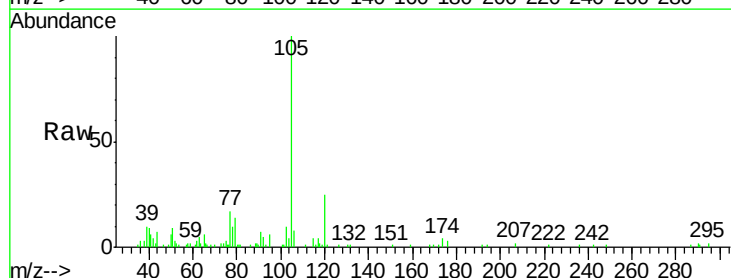
Acq: 6 Jul 2018 00:38

Tgt Ion:105 Resp: 60253

Ion Ratio Lower Upper

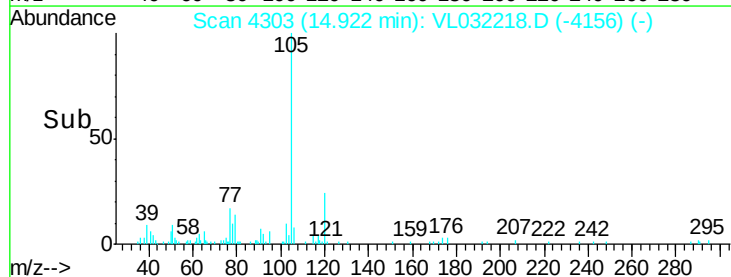
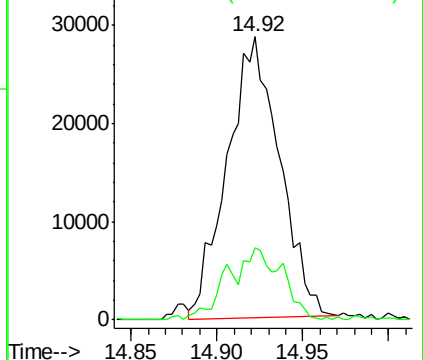
105 100

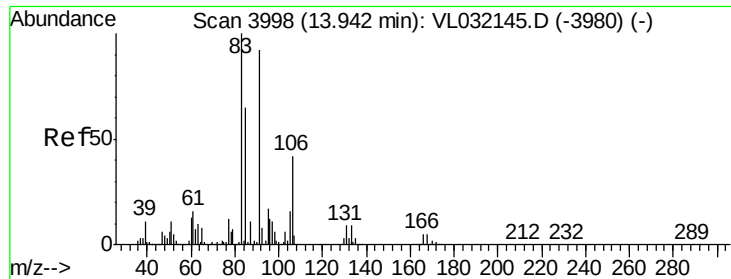
120 26.7 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.098 ppbv

RT: 13.93 min Scan# 3995

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

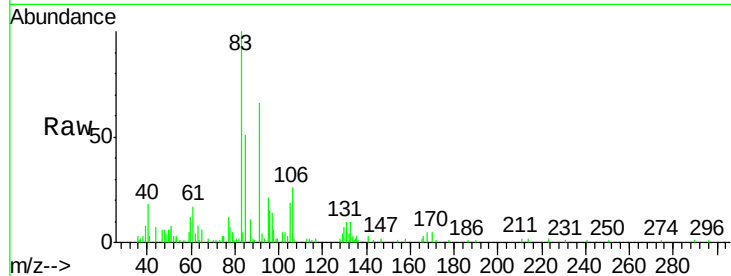
Tgt Ion: 83 Resp: 37084

Ion Ratio Lower Upper

83 100

131 13.8 4.6 13.8

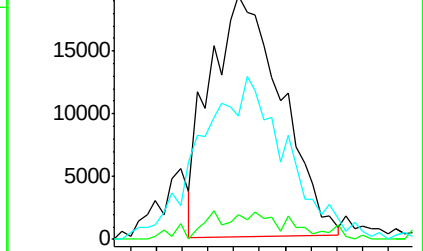
85 82.3 32.4 97.2



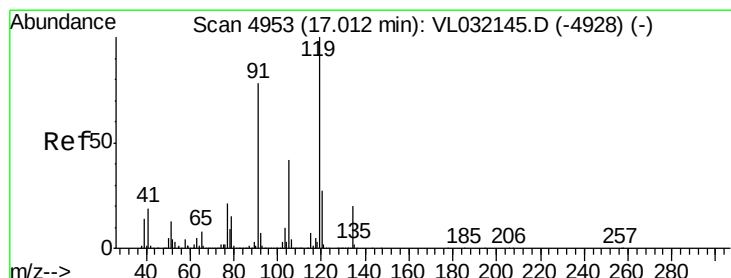
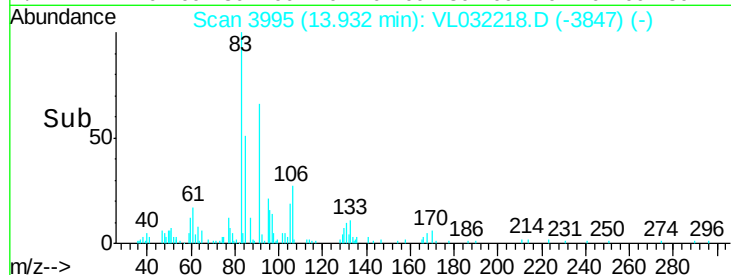
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



Time-->



#65

tert-Butylbenzene

Concen: 0.034 ppbv

RT: 17.00 min Scan# 4949

Delta R.T. -0.03 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

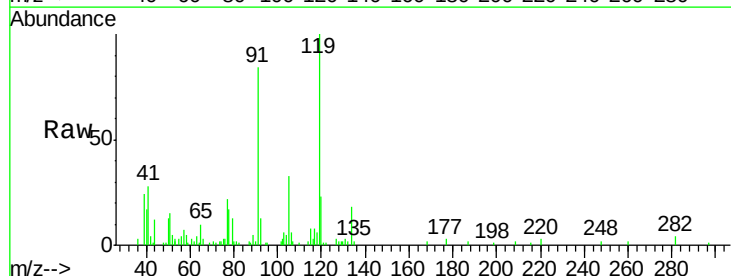
Tgt Ion: 119 Resp: 22381

Ion Ratio Lower Upper

119 100

91 0.0 62.2 93.2#

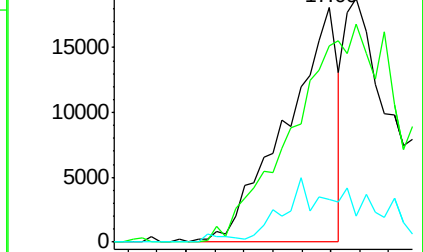
134 46.3 16.2 24.2#



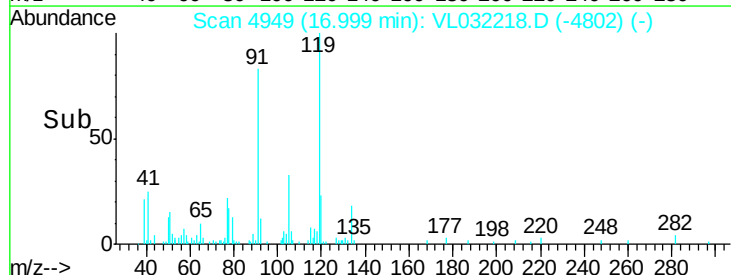
Abundance Ion 119.20 (118.90 to 119.90): V

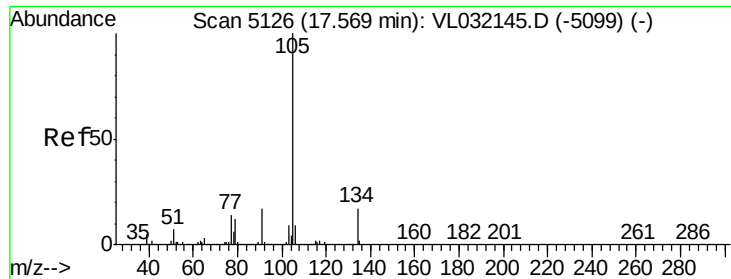
Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



Time-->





#67

sec-Butylbenzene

Concen: 0.076 ppbv

RT: 17.56 min Scan# 5122

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

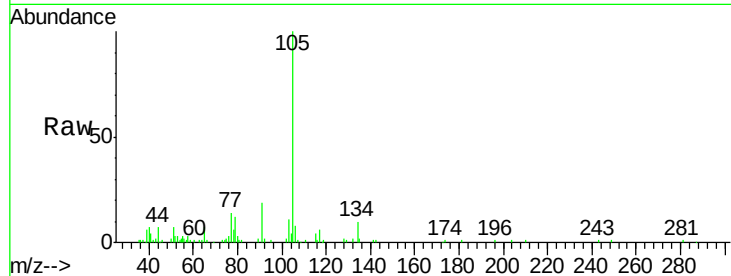
LOD-MDL-AIR-01-QT3-2018

Tgt Ion:105 Resp: 73623

Ion Ratio Lower Upper

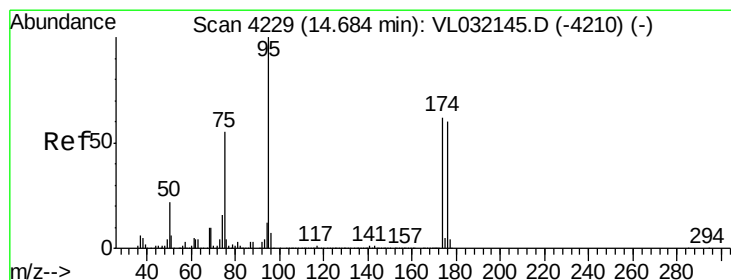
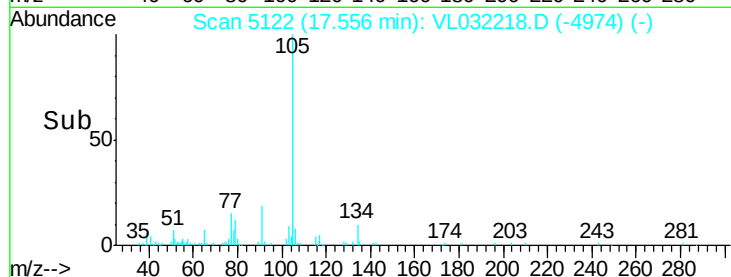
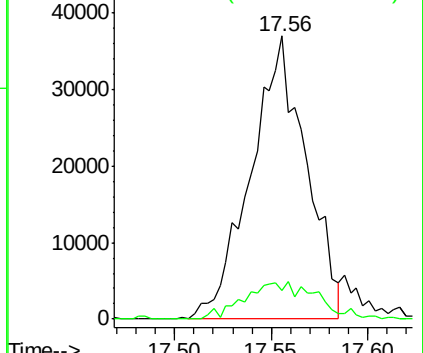
105 100

134 17.3 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.055 ppbv

RT: 14.67 min Scan# 4224

Delta R.T. -0.03 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

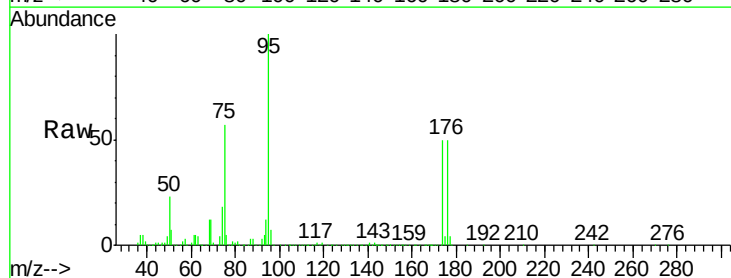
Tgt Ion: 95 Resp: 2924637

Ion Ratio Lower Upper

95 100

174 55.0 52.1 78.1

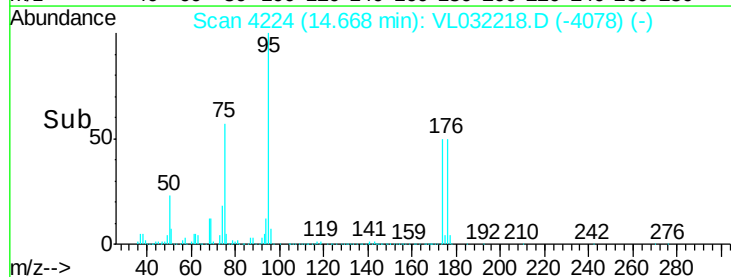
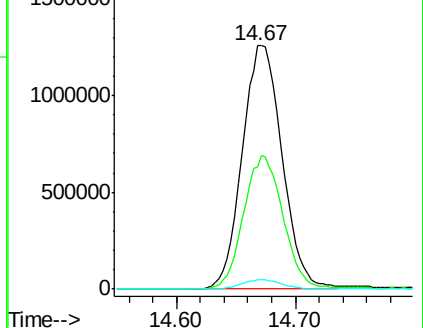
175 3.9 4.0 6.0#

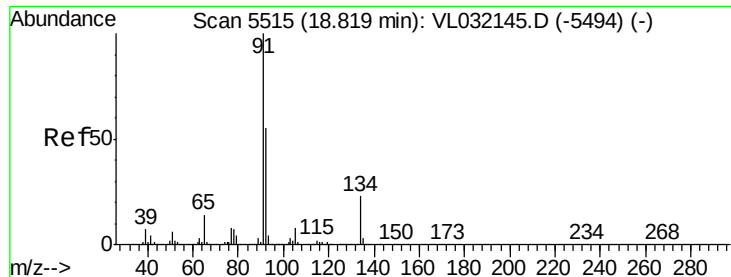


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#70

n-Butylbenzene

Concen: 0.065 ppbv

RT: 18.81 min Scan# 5512

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

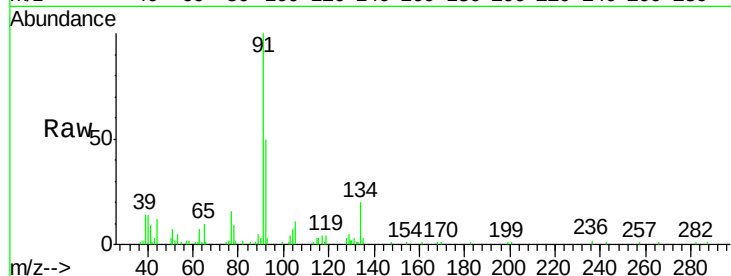
Tgt Ion: 91 Resp: 52952

Ion Ratio Lower Upper

91 100

92 55.7 43.7 65.5

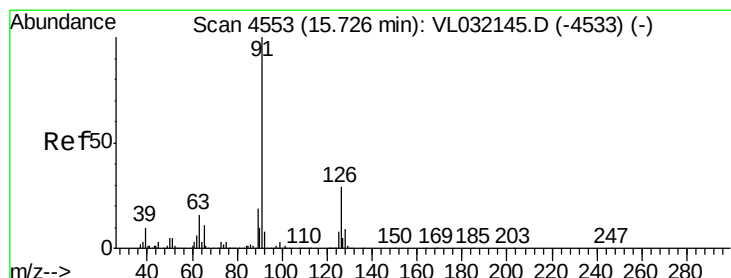
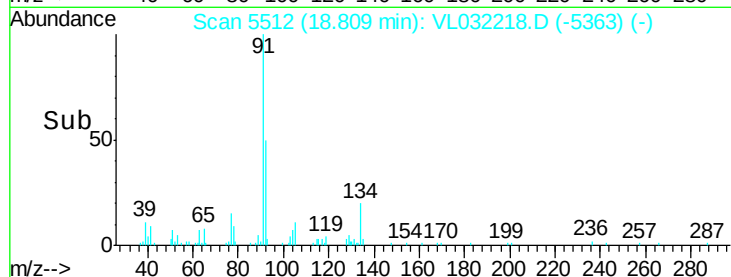
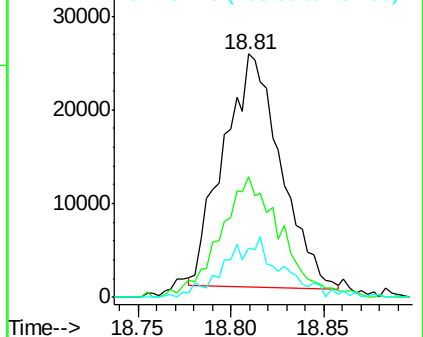
134 25.8 18.9 28.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.048 ppbv

RT: 15.71 min Scan# 4549

Delta R.T. -0.03 min

Lab File: VL032218.D

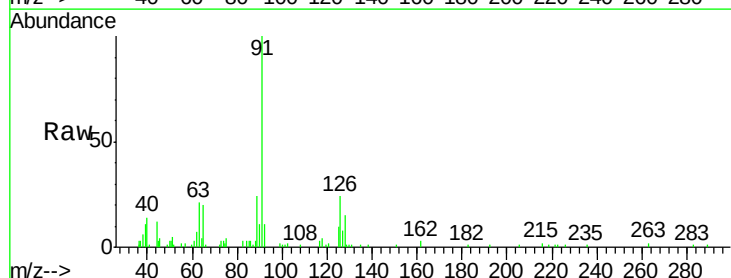
Acq: 6 Jul 2018 00:38

Tgt Ion: 91 Resp: 27851

Ion Ratio Lower Upper

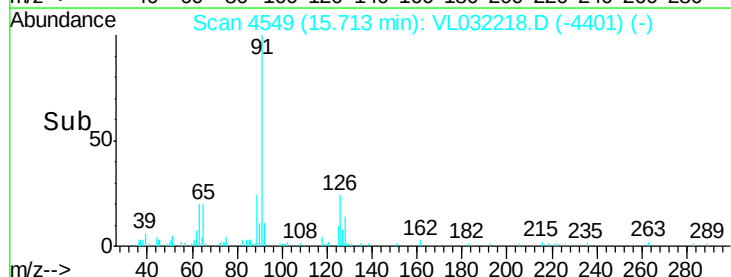
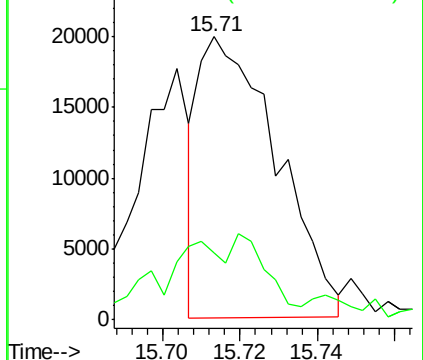
91 100

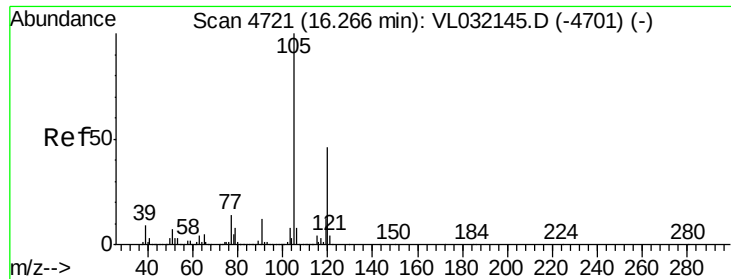
126 46.8 12.8 51.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#73

1,3,5-Trimethylbenzene

Concen: 0.061 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

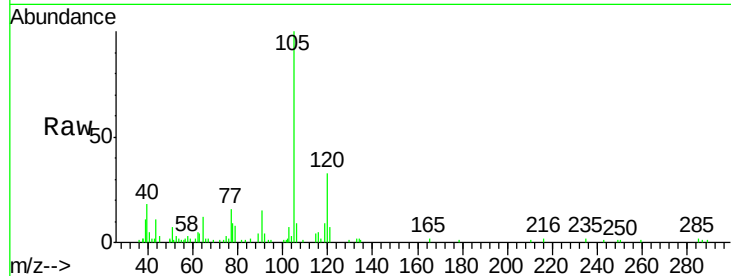
LOD-MDL-AIR-01-QT3-2018

Tgt Ion:105 Resp: 36311

Ion Ratio Lower Upper

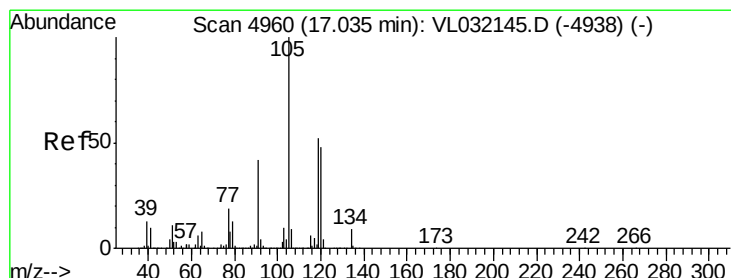
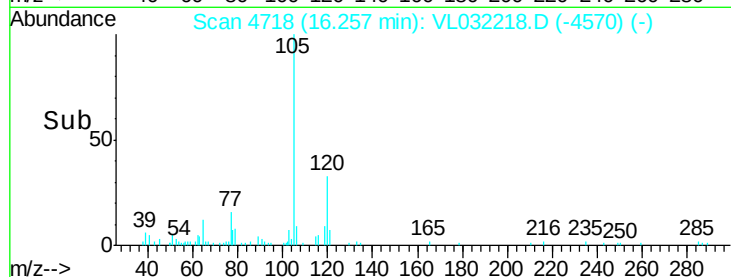
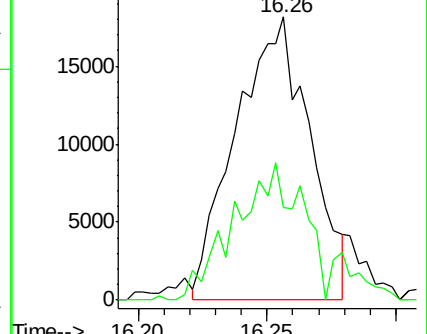
105 100

120 23.4 38.6 57.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.074 ppbv

RT: 17.02 min Scan# 4955

Delta R.T. -0.03 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Tgt Ion:105 Resp: 44554

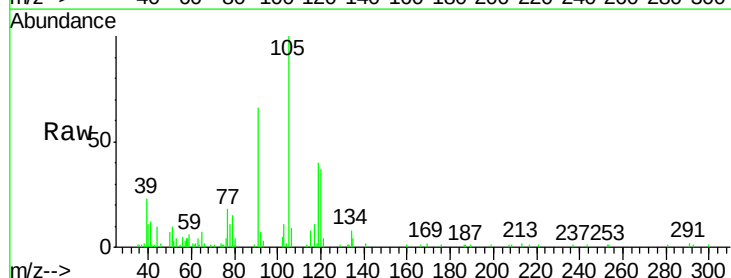
Ion Ratio Lower Upper

105 100

120 34.4 38.8 58.2#

91 61.5 33.6 50.4#

77 16.7 16.0 24.0

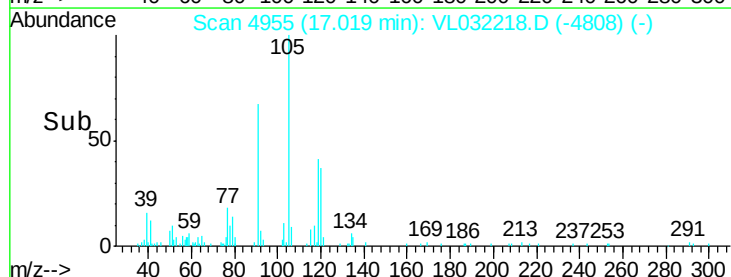
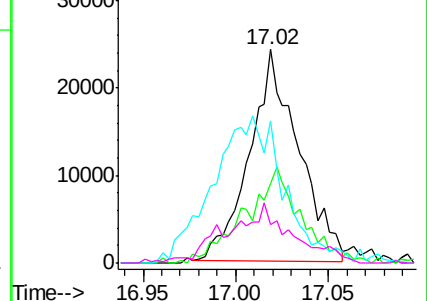


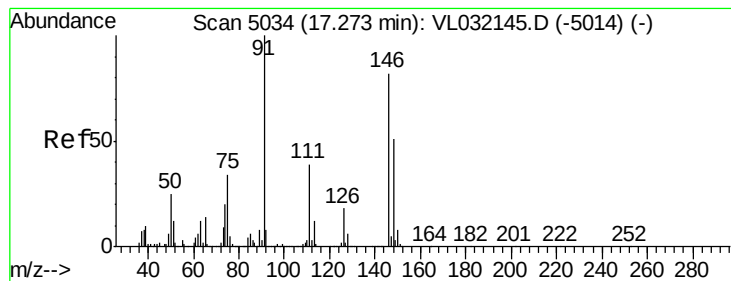
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.041 ppbv

RT: 17.25 min Scan# 5028

Delta R.T. -0.04 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2018

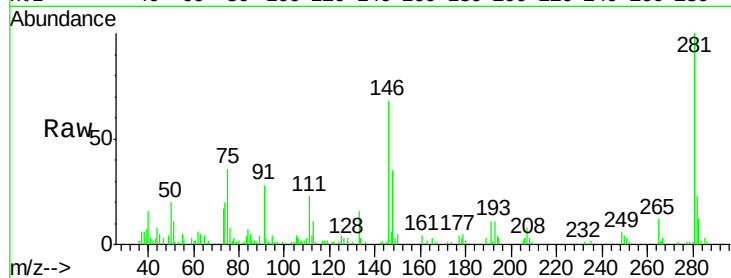
Tgt Ion:146 Resp: 14065

Ion Ratio Lower Upper

146 100

111 0.0 22.9 68.8#

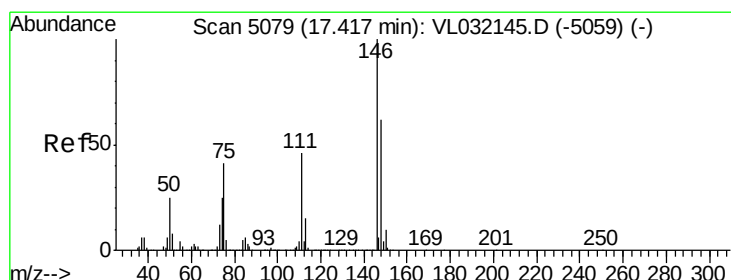
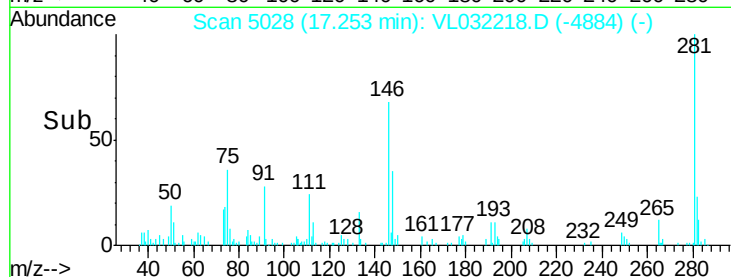
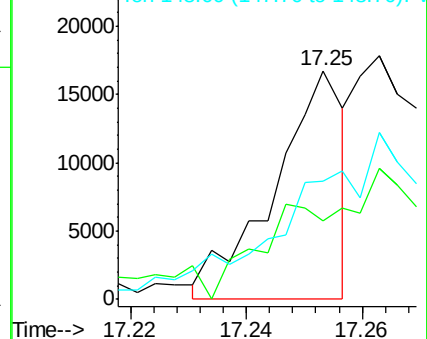
148 0.0 31.7 95.1#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.035 ppbv

RT: 17.40 min Scan# 5073

Delta R.T. -0.03 min

Lab File: VL032218.D

Acq: 6 Jul 2018 00:38

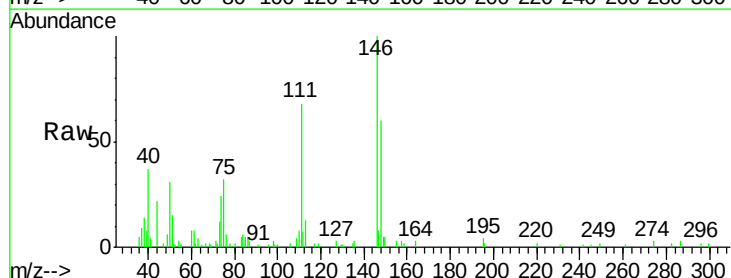
Tgt Ion:146 Resp: 12292

Ion Ratio Lower Upper

146 100

111 141.6 21.9 65.8#

148 0.0 32.1 96.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

