

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
 Data File : VL032221.D
 Acq On : 6 Jul 2018 2:30
 Operator : SY/AP
 Sample : J3762-15 0.1 PPB LOD
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Quant Time: Jul 06 04:32:32 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	1632491	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4096111	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3910062	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3032576	10.15	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.13	85	39061	0.182	ppbv #	80
3) Chlorodifluoromethane	3.07	51	24209	0.121	ppbv	95
4) Chloromethane	3.23	50	14124	0.133	ppbv	89
5) Vinyl Chloride	3.35	62	6670	0.062	ppbv	99
6) Bromomethane	3.58	94	7022	0.115	ppbv	94
7) Chloroethane	3.67	64	4712	0.124	ppbv #	78
8) Dichlorotetrafluoroethane	3.28	85	31513	0.131	ppbv	86
9) Propene	3.09	41	9811	0.106	ppbv	95
11) Trichlorofluoromethane	4.07	101	29784	0.128	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.62	101	10332	0.067	ppbv #	13
14) Bromoethene	3.86	108	5951	0.081	ppbv #	58
15) Acetone	3.99	43	33873	0.177	ppbv	98
16) 1,3-Butadiene	3.42	39	3042	0.033	ppbv #	2
18) 1,1-Dichloroethene	4.42	96	7105	0.096	ppbv #	85
19) Isopropyl Alcohol	4.13	45	16601	0.105	ppbv #	53
20) Methylene Chloride	4.48	84	11304	0.162	ppbv #	75
21) Allyl Chloride	4.55	41	10968	0.084	ppbv #	81
22) trans-1,2-Dichloroethene	5.04	96	3701	0.048	ppbv #	70
23) Vinyl Acetate	5.24	43	28993	0.084	ppbv #	93
25) Ethyl Acetate	5.86	43	41269	0.104	ppbv	97
26) Hexane	5.86	57	7563	0.042	ppbv #	1
27) Carbon Disulfide	4.69	76	7174	0.040	ppbv #	9
29) Chloroform	5.93	83	32706	0.124	ppbv	89
31) cis-1,2-Dichloroethene	5.72	61	16275	0.090	ppbv #	78
32) 1,1,1-Trichloroethane	6.71	97	11384	0.041	ppbv #	1
35) Carbon Tetrachloride	7.22	117	21974	0.078	ppbv	100
36) Benzene	7.09	78	38088	0.096	ppbv #	91
37) 1,2-Dichloroethane	6.50	62	9930	0.050	ppbv #	58
38) Trichloroethene	8.05	130	14761	0.095	ppbv	86
39) 1,2-Dichloropropane	7.38	63	1153258	7.376	ppbv #	27
42) Bromodichloromethane	8.01	83	30865	0.100	ppbv #	97
44) 2,2,4-Trimethylpentane	8.08	57	29223	0.042	ppbv #	32
47) 1,1,2-Trichloroethane	9.71	97	18833	0.116	ppbv #	79
52) Tetrachloroethene	11.46	164	6266	0.043	ppbv #	74
53) Toluene	10.04	91	27453	0.057	ppbv #	75
54) 1,2-Dibromoethane	10.85	107	16277	0.067	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.38	131	5584	0.032	ppbv #	1
57) Chlorobenzene	12.40	112	15942	0.047	ppbv #	92
58) Ethyl Benzene	12.96	91	25849	0.041	ppbv	93
59) m/p-Xylene	13.24	91	43548	0.086	ppbv #	38
62) Isopropylbenzene	14.92	105	41664	0.054	ppbv #	49

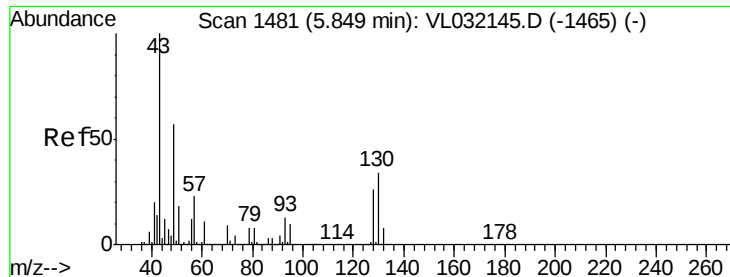
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
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 MDL-AIR-03-QT3-2018

Quant Time: Jul 06 04:32:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)
63) 1,1,2,2-Tetrachloroethane	13.94	83	43075	0.110	ppbv	88
65) tert-Butylbenzene	17.01	119	29743	0.044	ppbv #	22
66) Benzyl Chloride	17.25	91	12927	0.031	ppbv #	67
67) sec-Butylbenzene	17.55	105	47040	0.047	ppbv #	83
70) n-Butylbenzene	18.81	91	33114	0.040	ppbv #	53
71) 2-Chlorotoluene	15.72	91	23040	0.039	ppbv #	44
72) 4-Ethyltoluene	16.10	105	38883	0.060	ppbv #	90
74) 1,2,4-Trimethylbenzene	17.02	105	24195	0.039	ppbv #	72
75) 1,3-Dichlorobenzene	17.26	146	34926	0.099	ppbv	69
76) 1,4-Dichlorobenzene	17.40	146	31972	0.090	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	20136	0.057	ppbv #	24
78) Hexachloro-1,3-Butadiene	23.63	225	8853	0.072	ppbv #	26

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

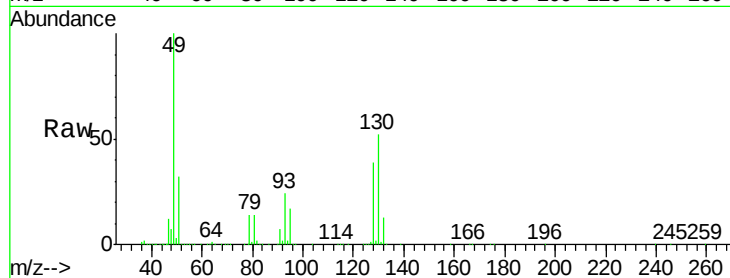
Tgt Ion: 49 Resp: 1632491

Ion Ratio Lower Upper

49 100

128 42.5 23.4 70.0

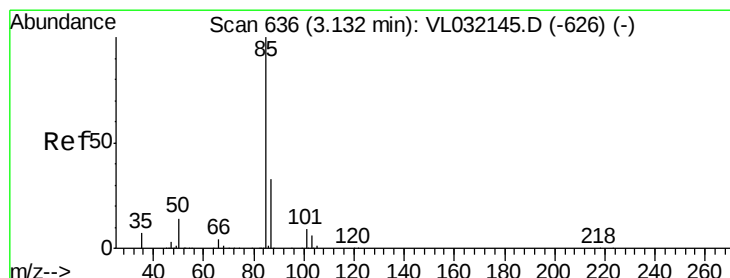
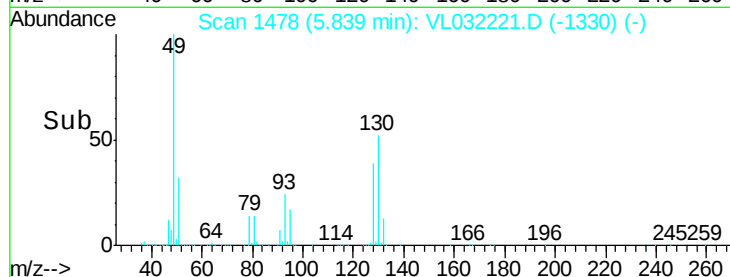
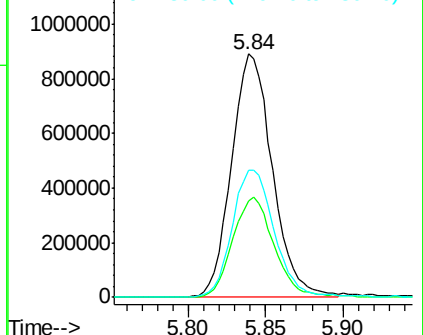
130 54.6 30.3 90.9



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



#2

Dichlorodifluoromethane

Concen: 0.182 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032221.D

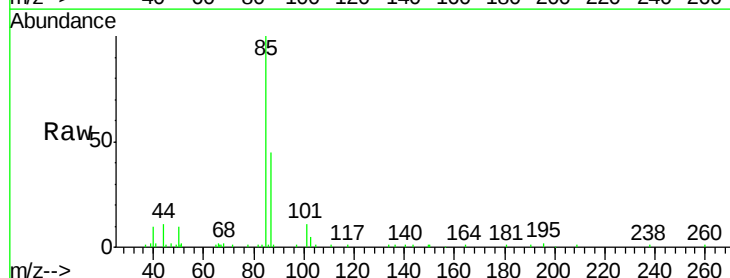
Acq: 6 Jul 2018 2:30

Tgt Ion: 85 Resp: 39061

Ion Ratio Lower Upper

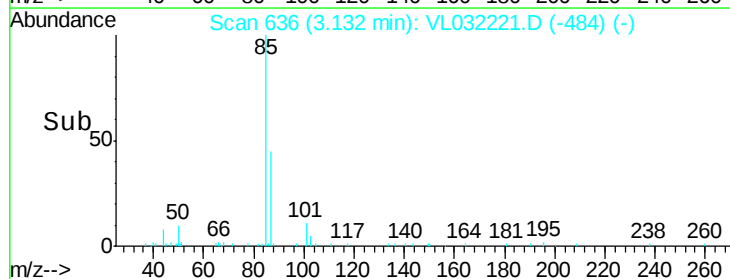
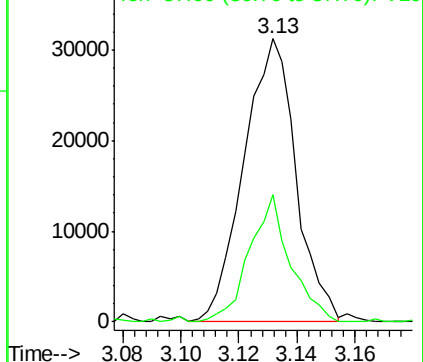
85 100

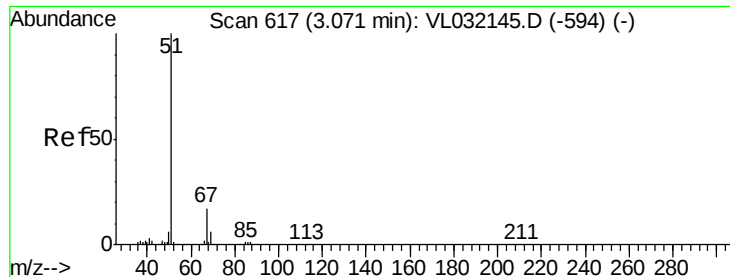
87 44.8 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.121 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

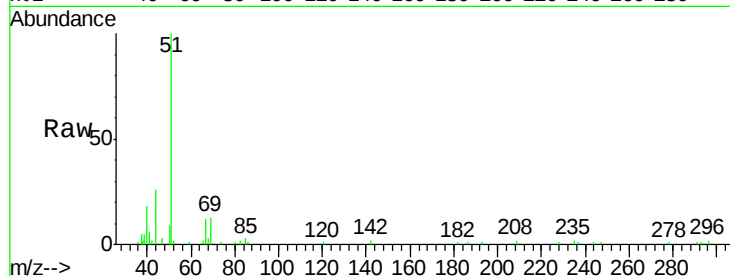
MDL-AIR-03-QT3-2018

Tgt Ion: 51 Resp: 24209

Ion Ratio Lower Upper

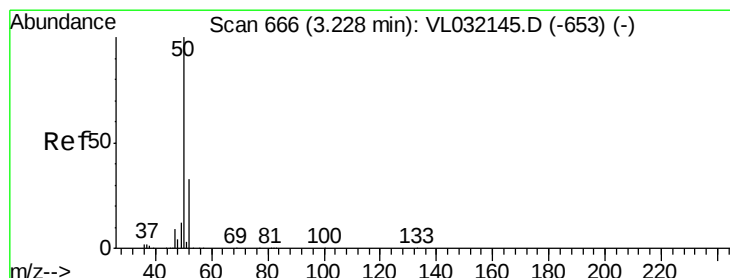
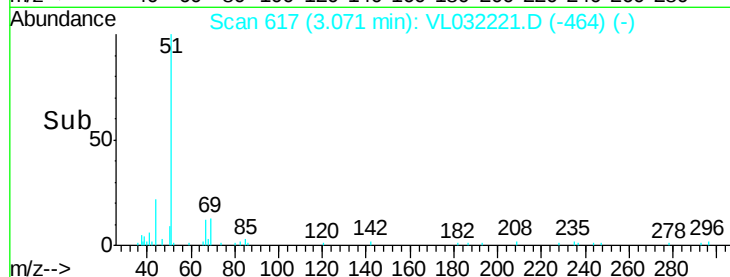
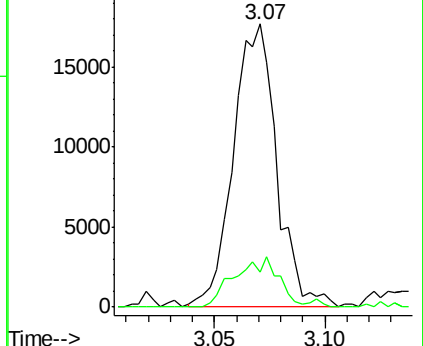
51 100

67 18.5 13.2 19.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.133 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032221.D

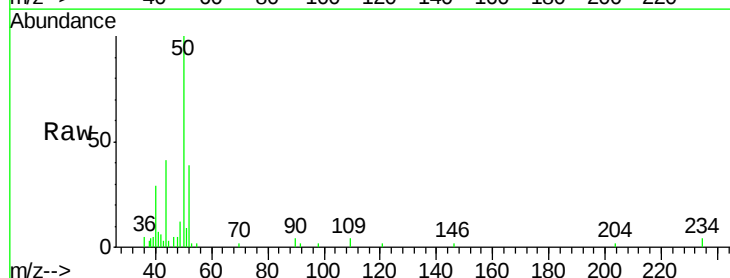
Acq: 6 Jul 2018 2:30

Tgt Ion: 50 Resp: 14124

Ion Ratio Lower Upper

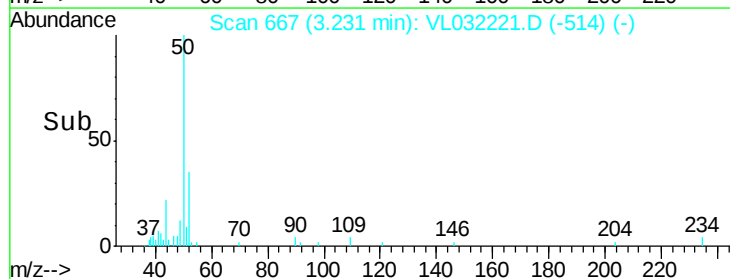
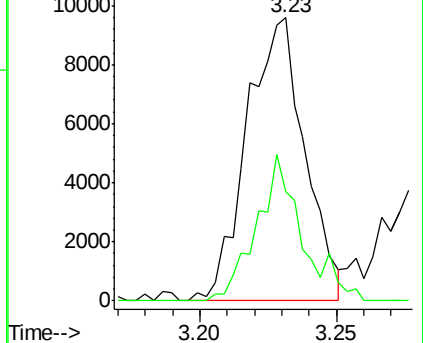
50 100

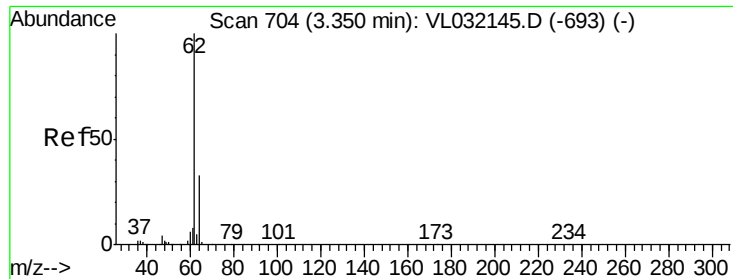
52 38.6 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.062 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

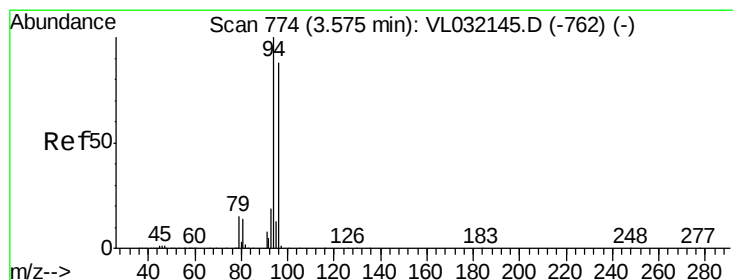
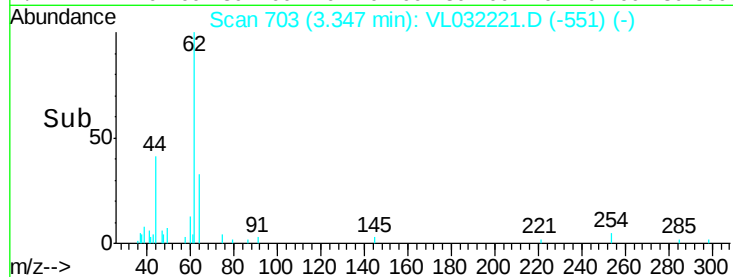
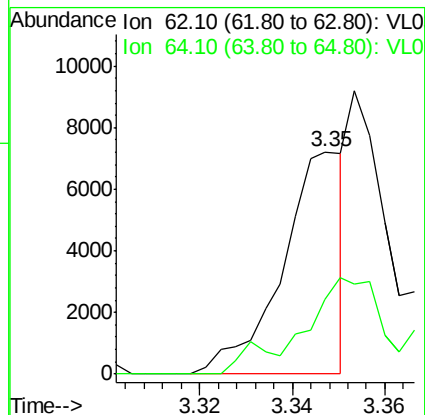
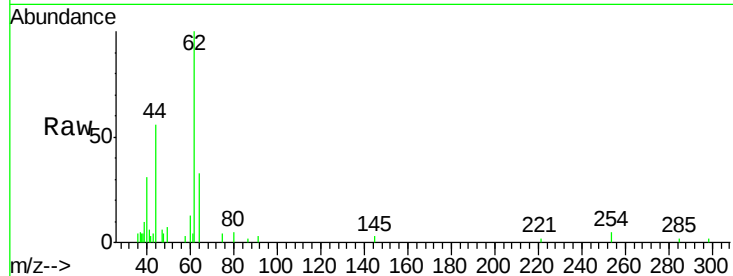
MDL-AIR-03-QT3-2018

Tgt Ion: 62 Resp: 6670

Ion Ratio Lower Upper

62 100

64 33.4 26.1 39.1



#6

Bromomethane

Concen: 0.115 ppbv

RT: 3.58 min Scan# 776

Delta R.T. -0.00 min

Lab File: VL032221.D

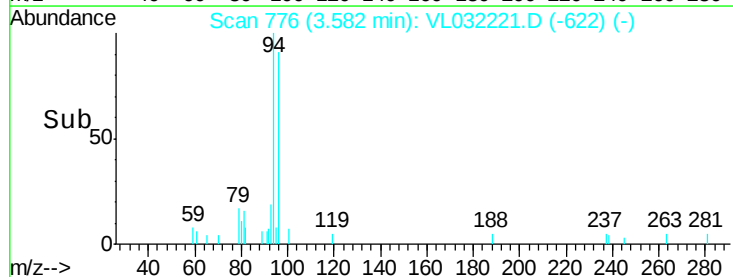
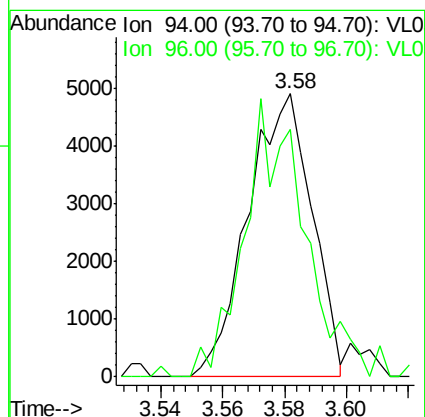
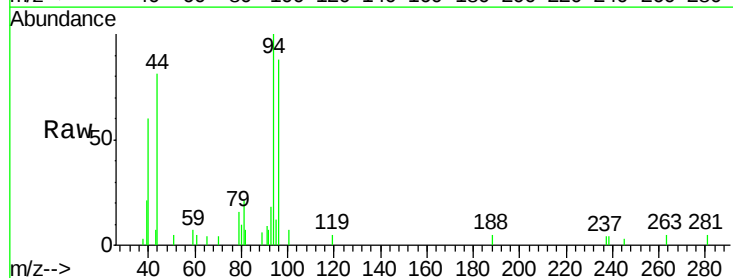
Acq: 6 Jul 2018 2:30

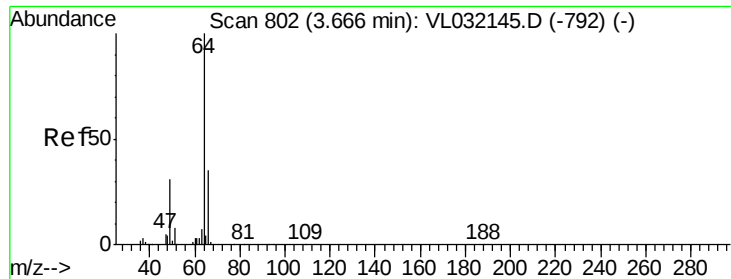
Tgt Ion: 94 Resp: 7022

Ion Ratio Lower Upper

94 100

96 87.7 74.7 112.1





#7

Chloroethane

Concen: 0.124 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

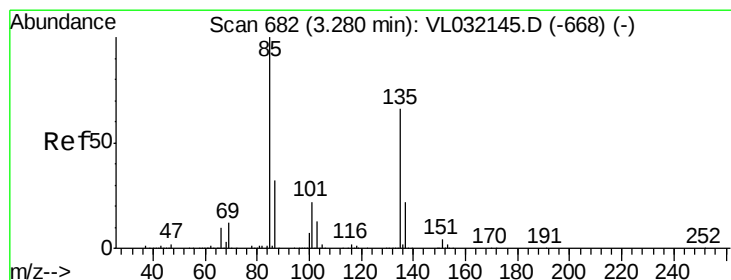
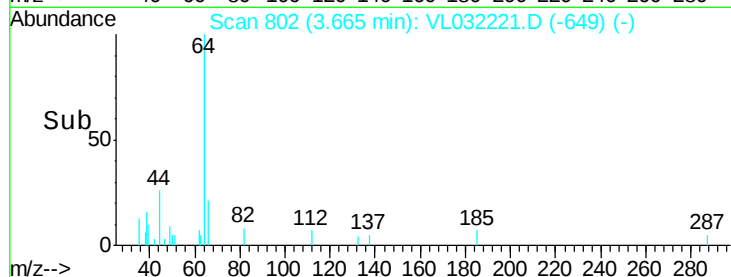
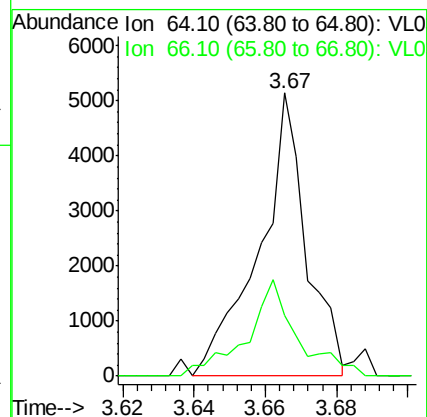
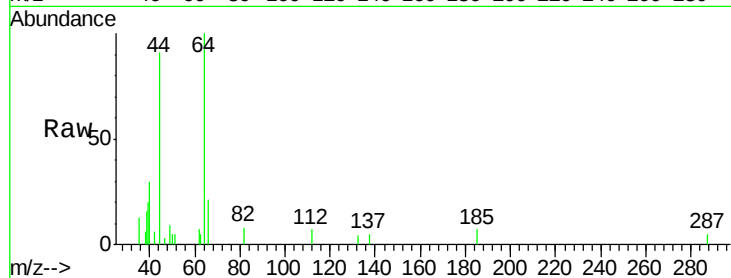
MDL-AIR-03-QT3-2018

Tgt Ion: 64 Resp: 4712

Ion Ratio Lower Upper

64 100

66 21.2 26.9 40.3#



#8

Dichlorotetrafluoroethane

Concen: 0.131 ppbv

RT: 3.28 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL032221.D

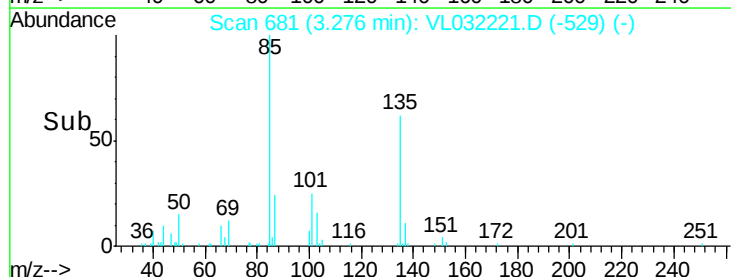
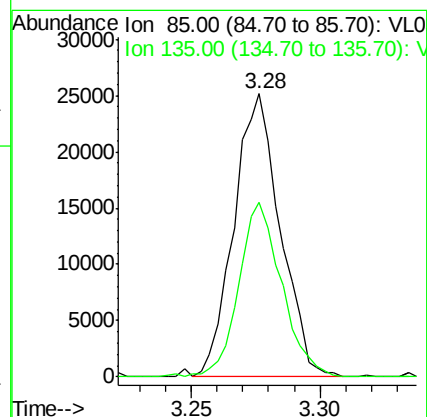
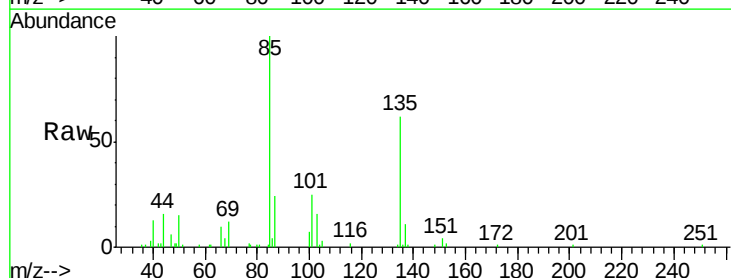
Acq: 6 Jul 2018 2:30

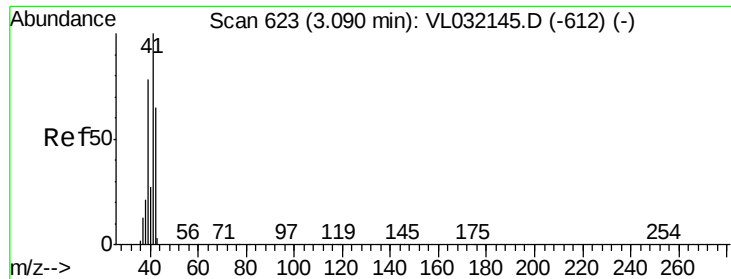
Tgt Ion: 85 Resp: 31513

Ion Ratio Lower Upper

85 100

135 57.3 54.6 82.0





#9

Propene

Concen: 0.106 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

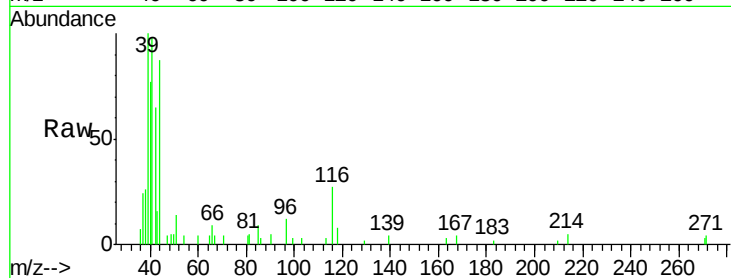
MDL-AIR-03-QT3-2018

Tgt Ion: 41 Resp: 9811

Ion Ratio Lower Upper

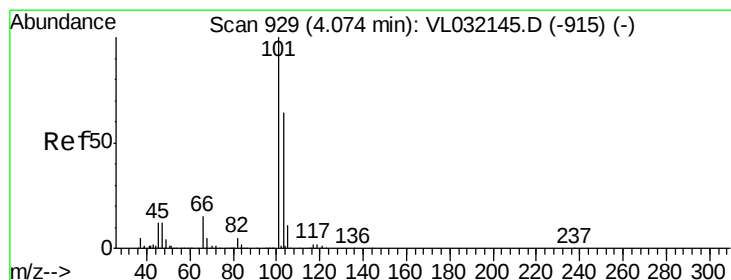
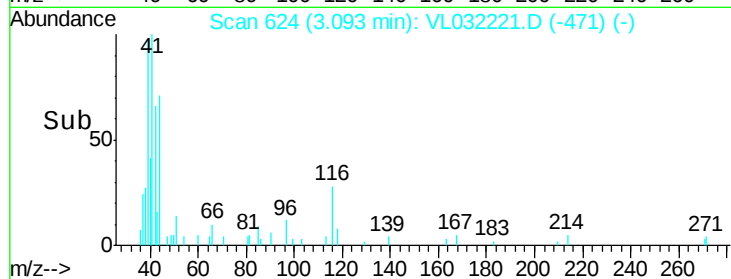
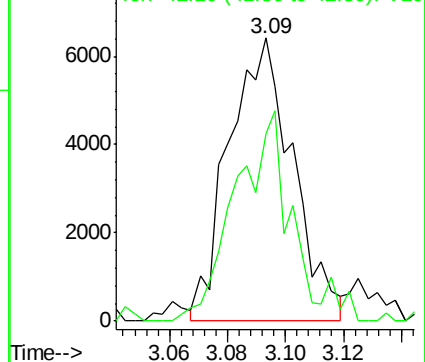
41 100

42 66.1 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.128 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032221.D

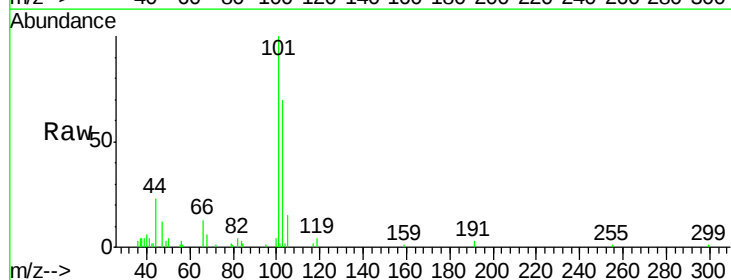
Acq: 6 Jul 2018 2:30

Tgt Ion: 101 Resp: 29784

Ion Ratio Lower Upper

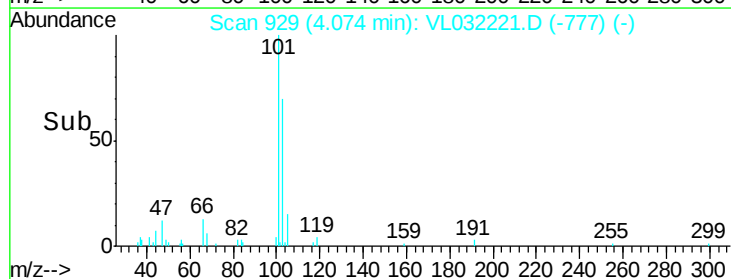
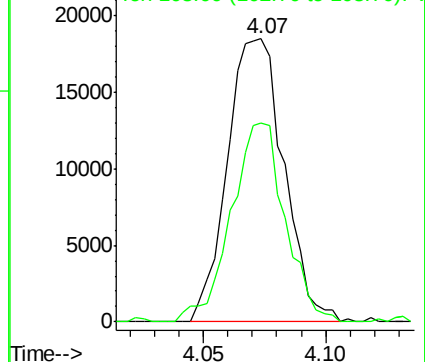
101 100

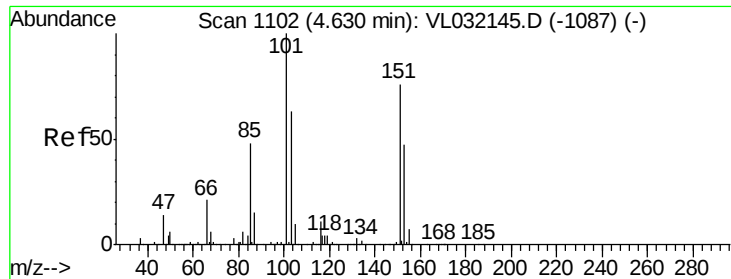
103 69.1 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.067 ppbv

RT: 4.62 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

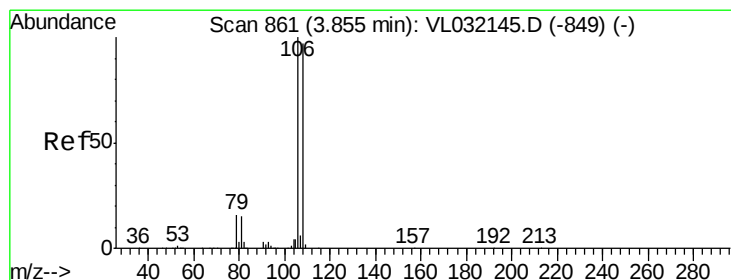
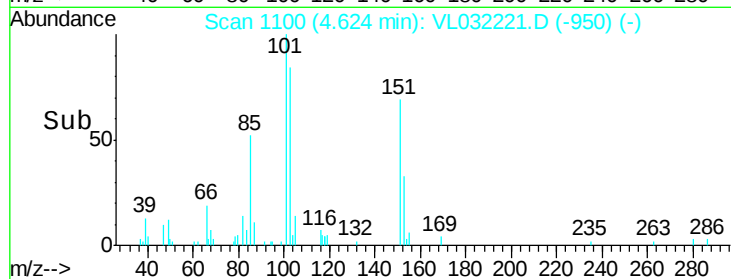
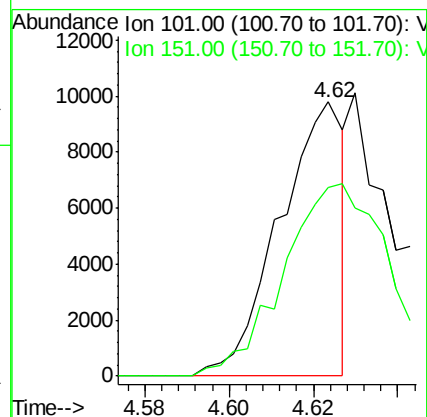
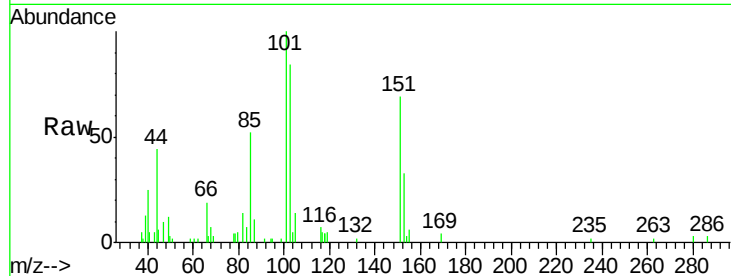
MDL-AIR-03-QT3-2018

Tgt Ion:101 Resp: 10332

Ion Ratio Lower Upper

101 100

151 0.0 58.8 88.2#



#14

Bromoethene

Concen: 0.081 ppbv

RT: 3.86 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

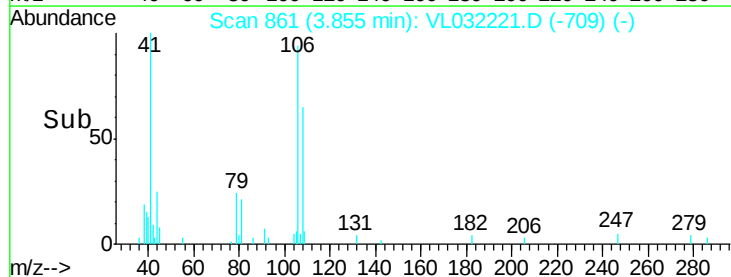
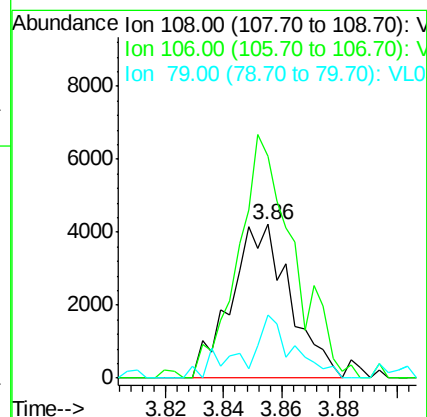
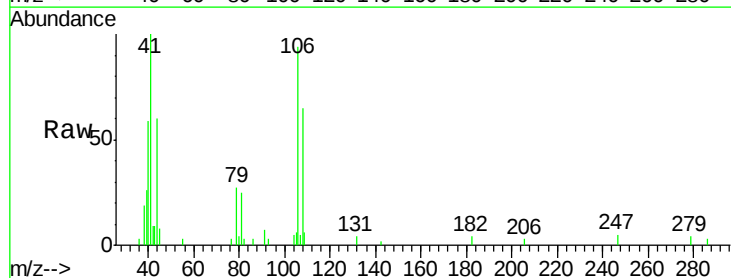
Tgt Ion:108 Resp: 5951

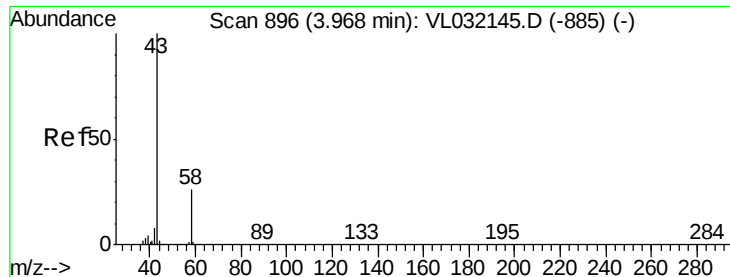
Ion Ratio Lower Upper

108 100

106 152.0 86.3 129.5#

79 33.0 12.7 19.1#





#15

Acetone

Concen: 0.177 ppbv

RT: 3.99 min Scan# 904

Delta R.T. 0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

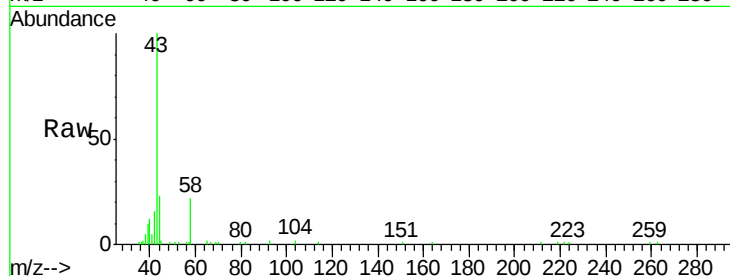
MDL-AIR-03-QT3-2018

Tgt Ion: 43 Resp: 33873

Ion Ratio Lower Upper

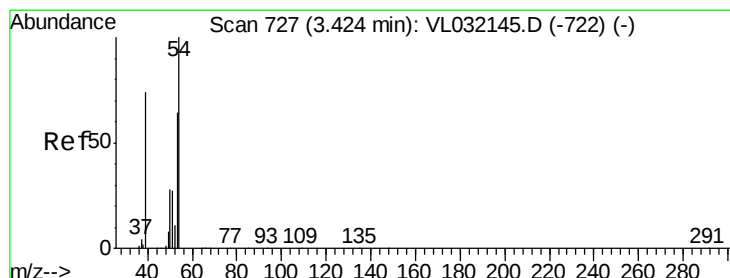
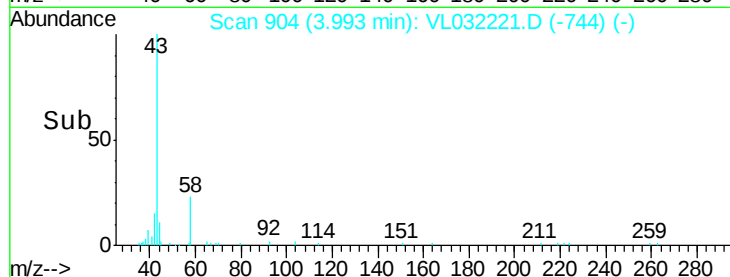
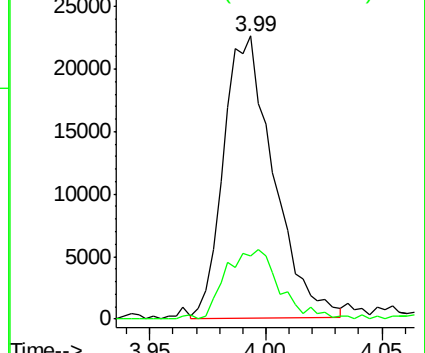
43 100

58 27.9 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: 0.033 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.01 min

Lab File: VL032221.D

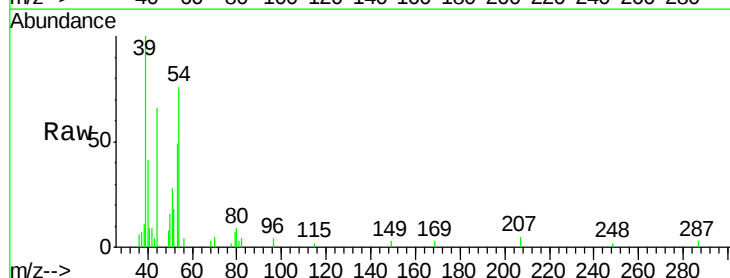
Acq: 6 Jul 2018 2:30

Tgt Ion: 39 Resp: 3042

Ion Ratio Lower Upper

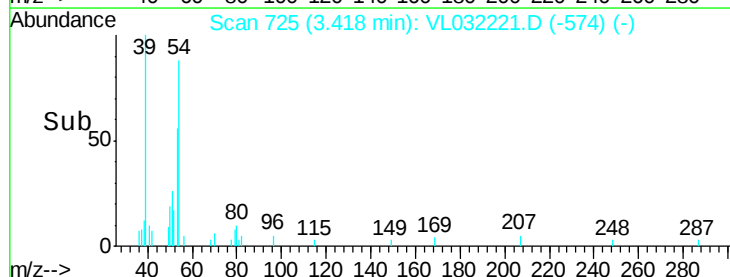
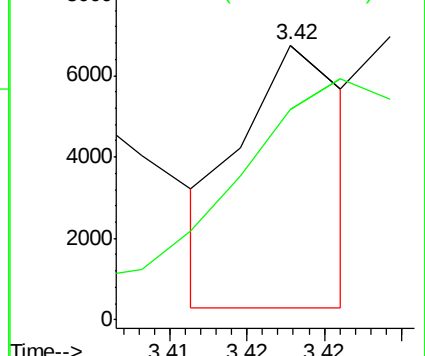
39 100

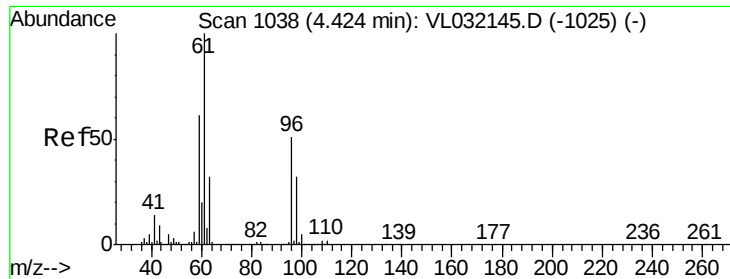
54 0.0 75.8 113.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

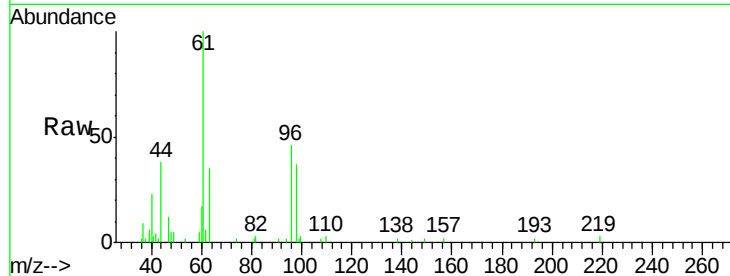




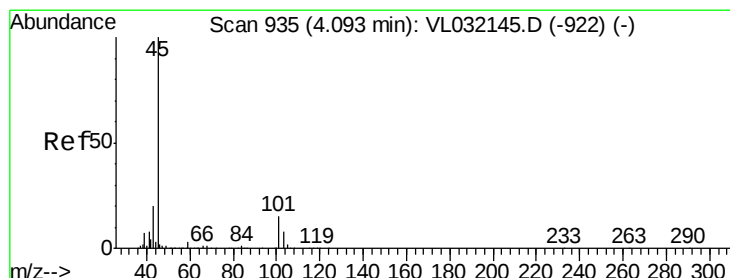
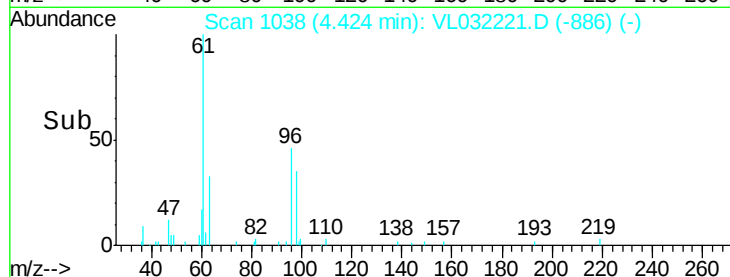
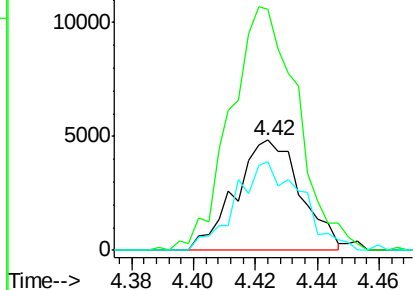
#18
 1,1-Dichloroethene
 Concen: 0.096 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tgt Ion: 96 Resp: 7105
 Ion Ratio Lower Upper
 96 100
 61 211.8 154.1 231.1
 98 80.8 50.3 75.5#

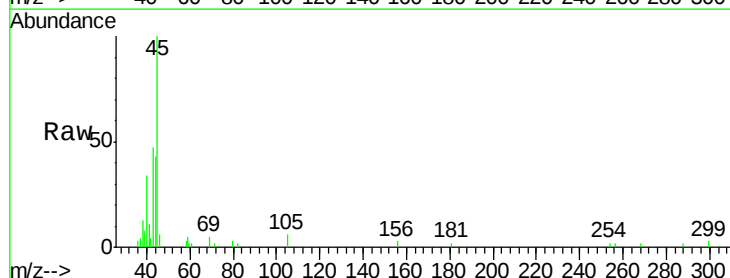


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

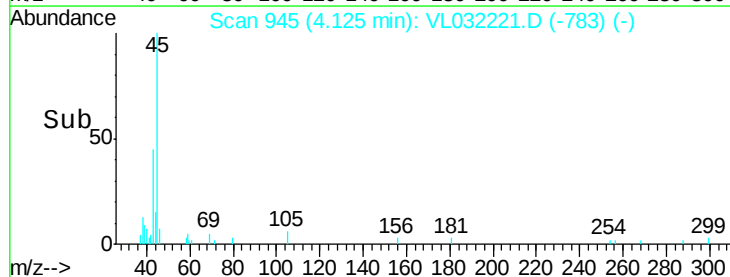
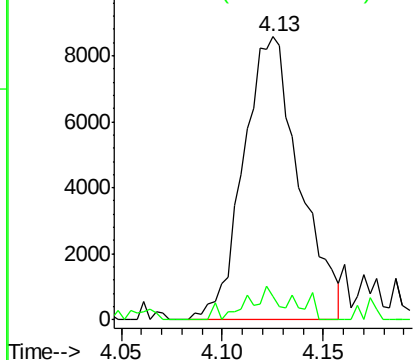


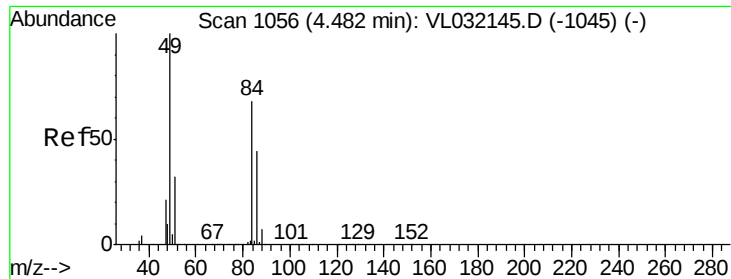
#19
 Isopropyl Alcohol
 Concen: 0.105 ppbv
 RT: 4.13 min Scan# 945
 Delta R.T. 0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion: 45 Resp: 16601
 Ion Ratio Lower Upper
 45 100
 58 8.9 29.4 44.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0

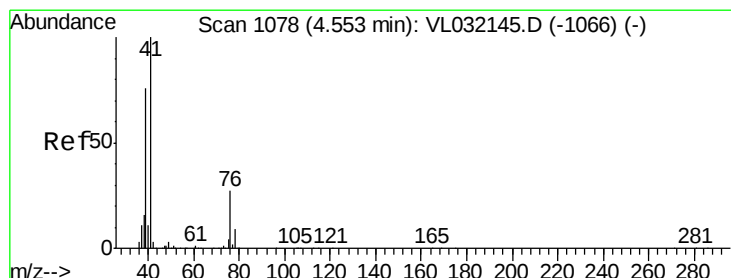
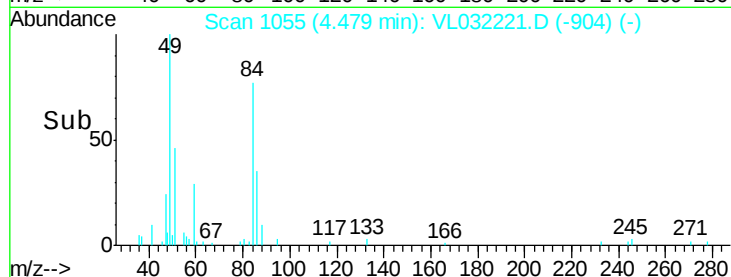
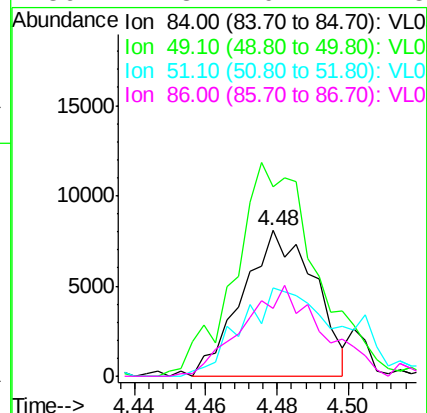
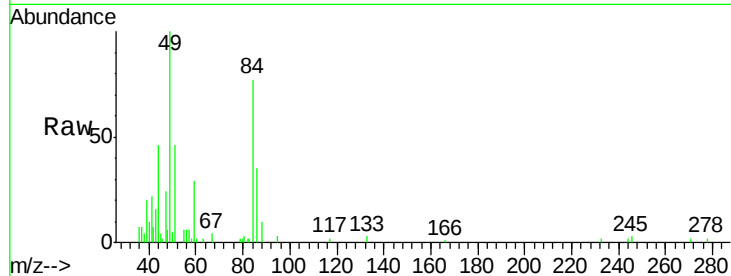




#20
Methylene Chloride
Concen: 0.162 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

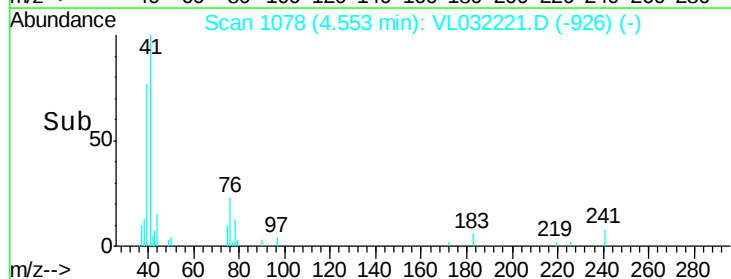
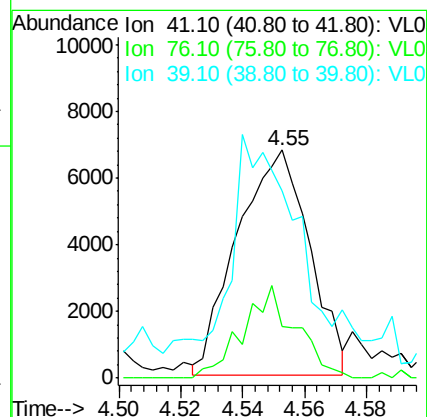
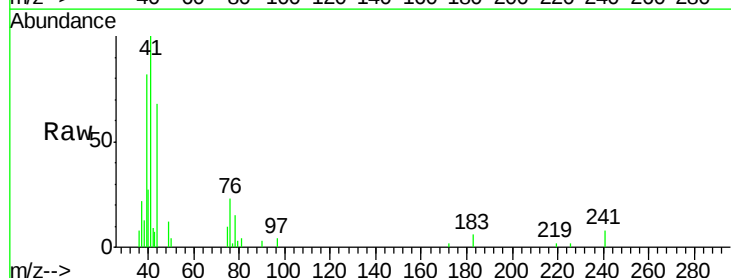
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

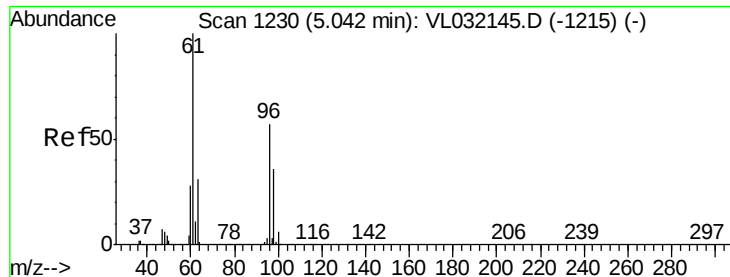
Tgt Ion: 84 Resp: 11304
Ion Ratio Lower Upper
84 100
49 113.6 119.6 179.4#
51 56.5 36.3 54.5#
86 44.3 49.7 74.5#



#21
Allyl Chloride
Concen: 0.084 ppbv
RT: 4.55 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 41 Resp: 10968
Ion Ratio Lower Upper
41 100
76 30.4 22.5 33.7
39 96.5 60.5 90.7#





#22

trans-1,2-Dichloroethene

Concen: 0.048 ppbv

RT: 5.04 min Scan# 1228

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

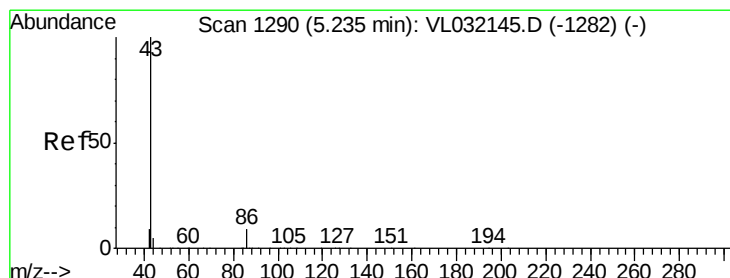
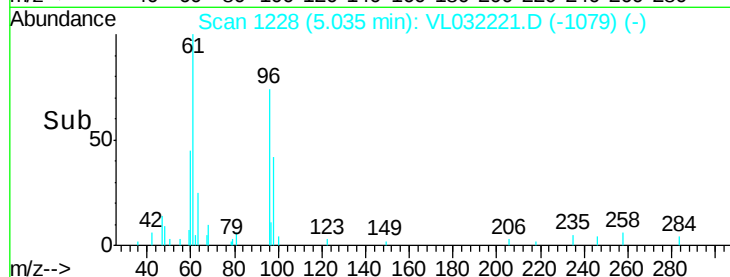
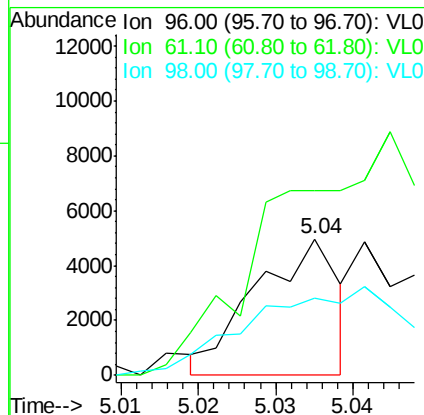
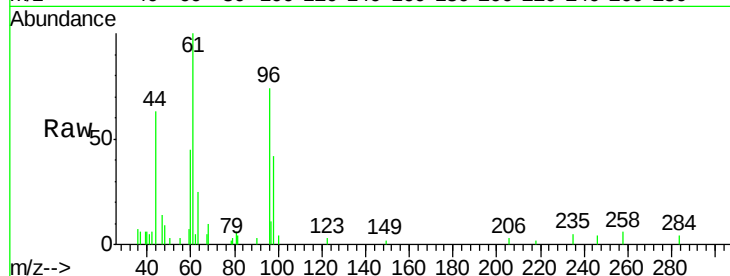
Tgt Ion: 96 Resp: 3701

Ion Ratio Lower Upper

96 100

61 121.4 135.2 202.8#

98 47.8 49.7 74.5#



#23

Vinyl Acetate

Concen: 0.084 ppbv

RT: 5.24 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion: 43 Resp: 28993

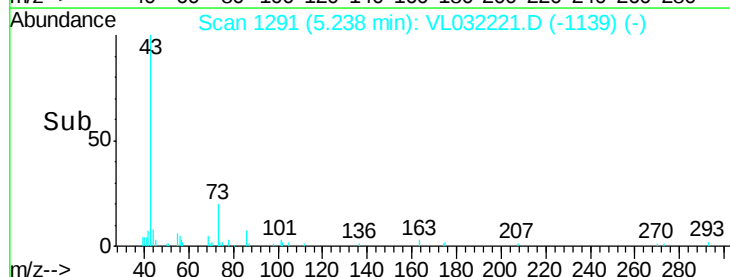
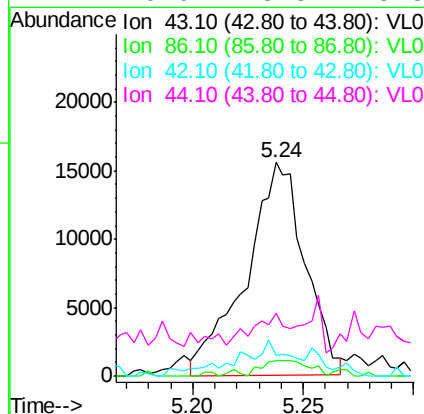
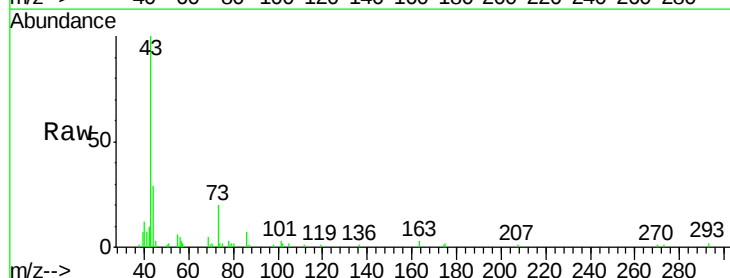
Ion Ratio Lower Upper

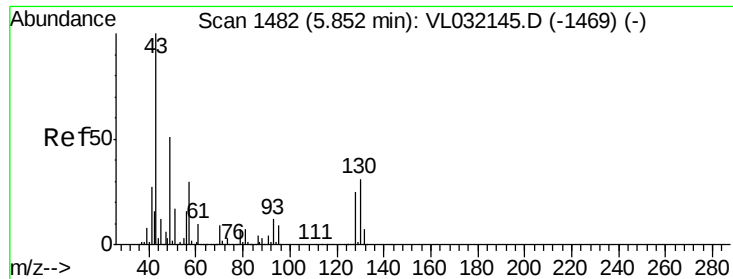
43 100

86 7.5 6.2 9.4

42 6.2 6.9 10.3#

44 9.9 3.8 5.8#

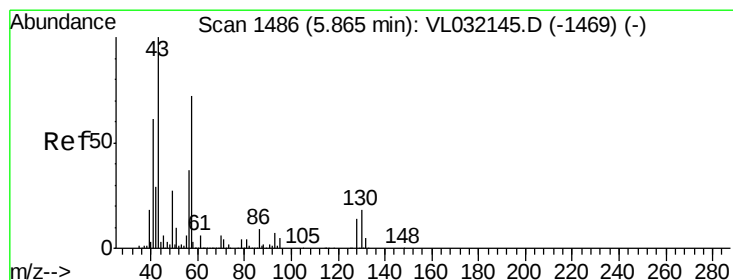
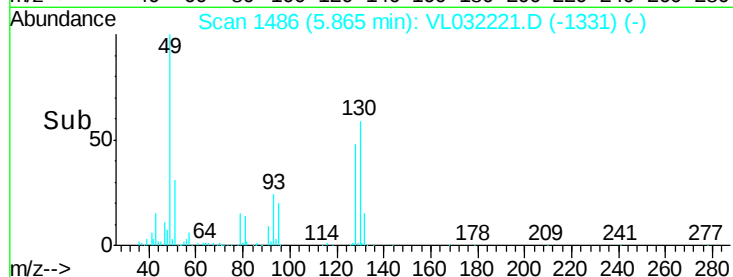
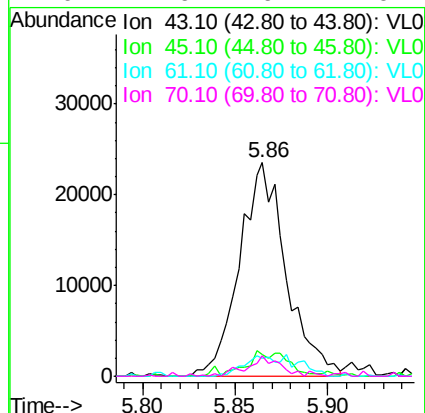
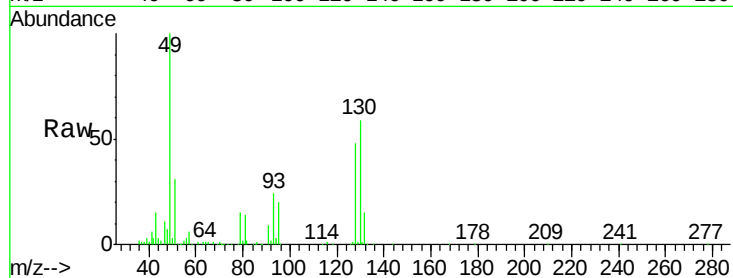




#25
Ethyl Acetate
Concen: 0.104 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

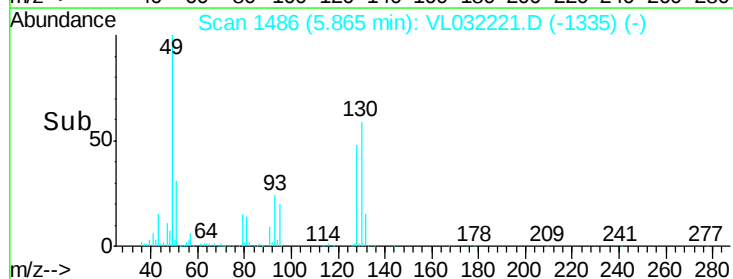
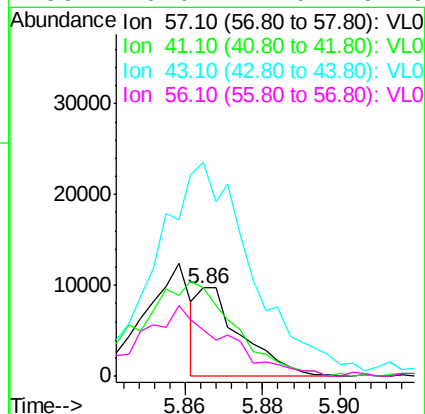
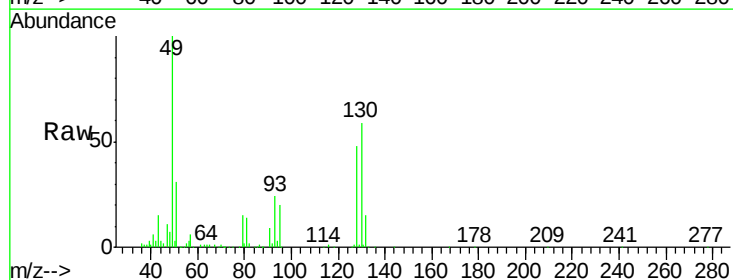
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

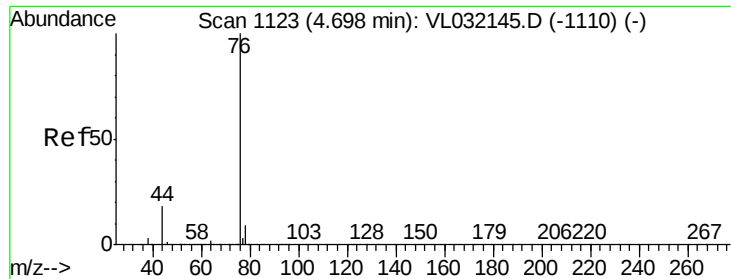
Tgt Ion:	43	Resp:	41269
Ion	Ratio	Lower	Upper
43	100		
45	11.6	7.8	11.8
61	10.9	7.4	11.0
70	7.6	6.1	9.1



#26
Hexane
Concen: 0.042 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion:	57	Resp:	7563
Ion	Ratio	Lower	Upper
57	100		
41	238.3	68.6	103.0#
43	569.8	168.6	252.8#
56	0.0	41.0	61.6#





#27

Carbon Disulfide

Concen: 0.040 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

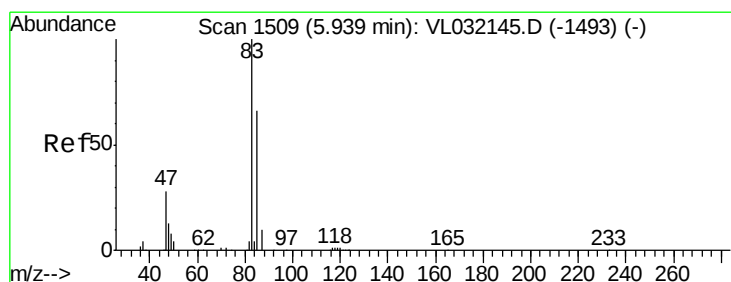
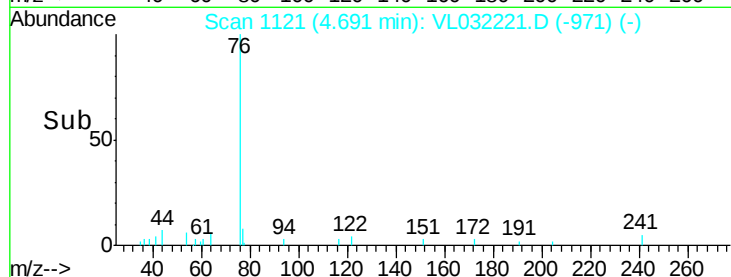
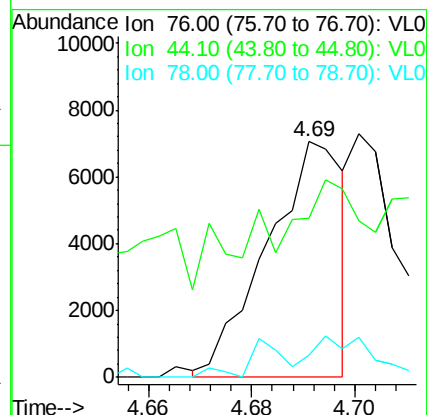
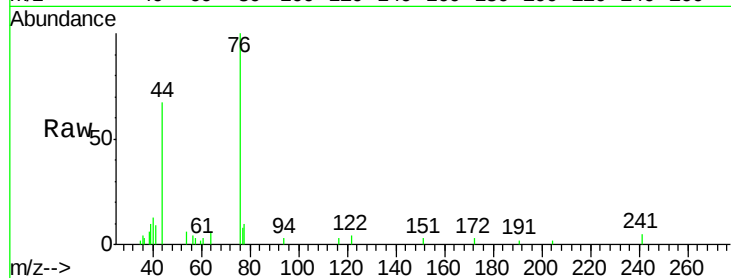
Tgt Ion: 76 Resp: 7174

Ion Ratio Lower Upper

76 100

44 66.4 15.1 22.7#

78 30.4 7.2 10.8#



#29

Chloroform

Concen: 0.124 ppbv

RT: 5.93 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VL032221.D

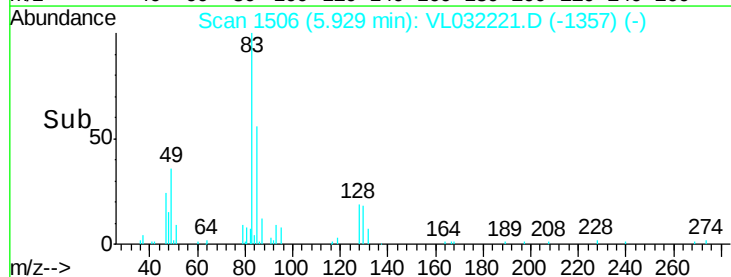
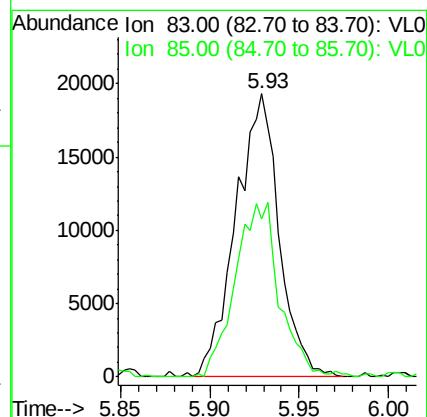
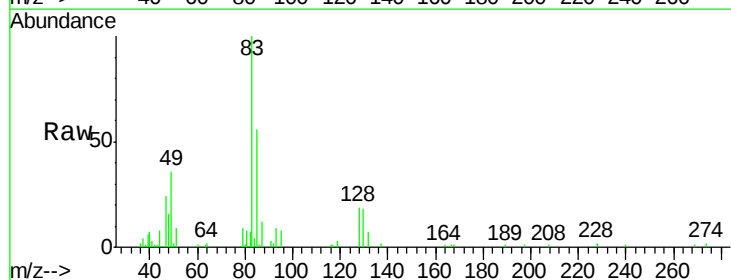
Acq: 6 Jul 2018 2:30

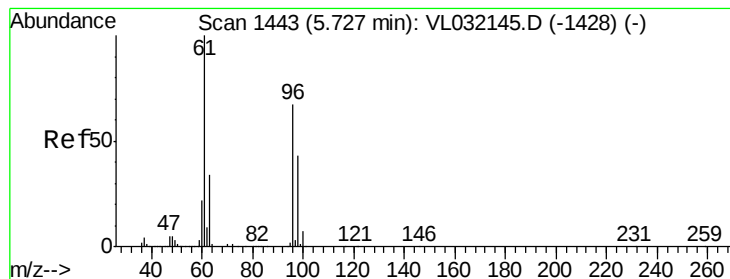
Tgt Ion: 83 Resp: 32706

Ion Ratio Lower Upper

83 100

85 55.8 51.6 77.4





#31

cis-1,2-Dichloroethene

Concen: 0.090 ppbv

RT: 5.72 min Scan# 1442

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

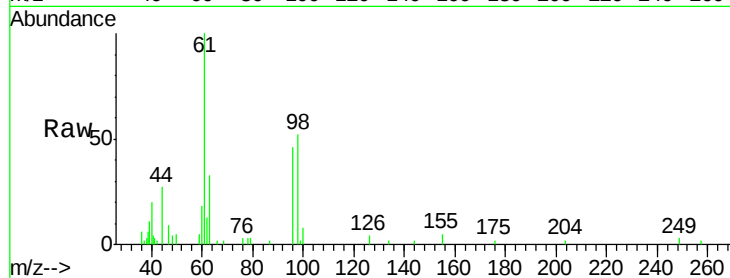
Tgt Ion: 61 Resp: 16275

Ion Ratio Lower Upper

61 100

96 46.0 54.2 81.4#

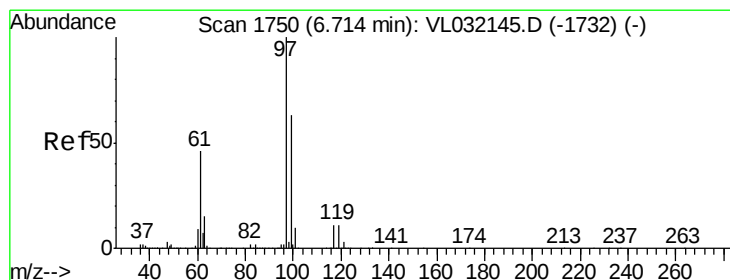
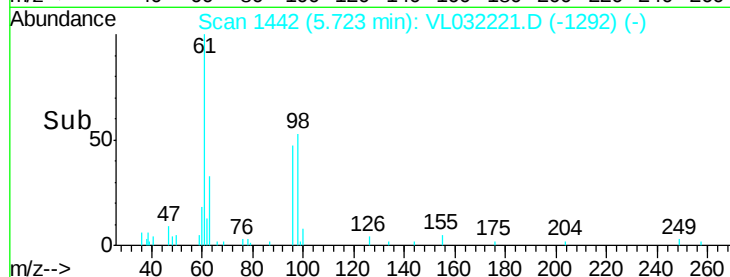
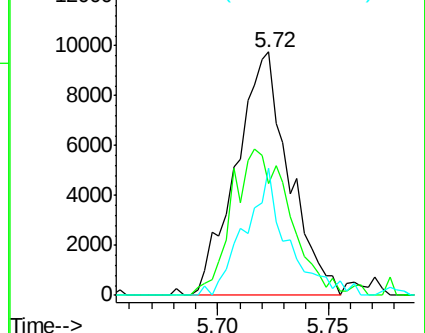
98 52.2 34.6 52.0#



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: 0.041 ppbv

RT: 6.71 min Scan# 1748

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

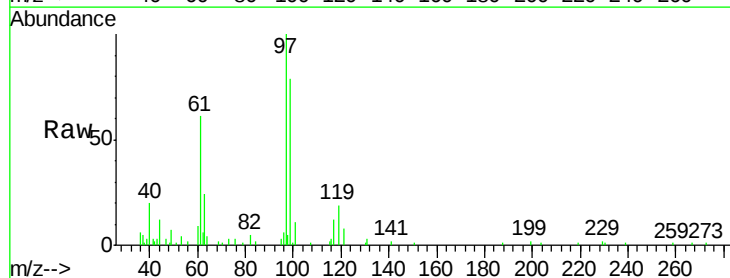
Tgt Ion: 97 Resp: 11384

Ion Ratio Lower Upper

97 100

99 179.6 51.3 76.9#

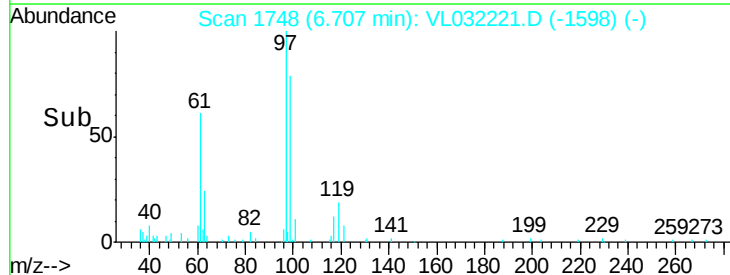
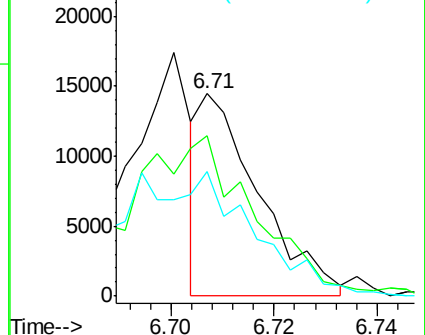
61 146.5 38.4 57.6#

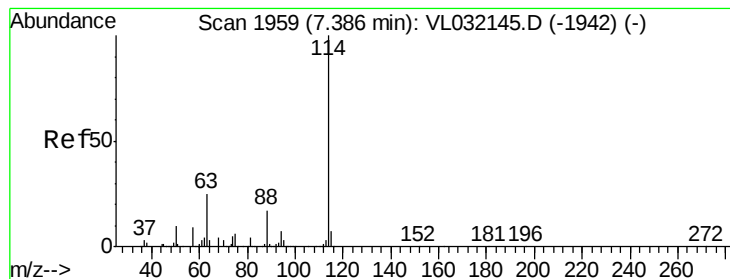


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

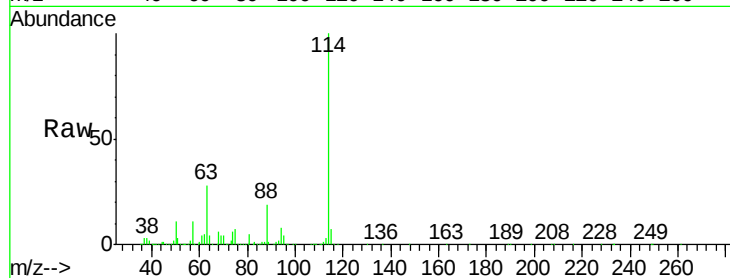
Tgt Ion:114 Resp: 4096111

Ion Ratio Lower Upper

114 100

63 28.5 19.1 28.7

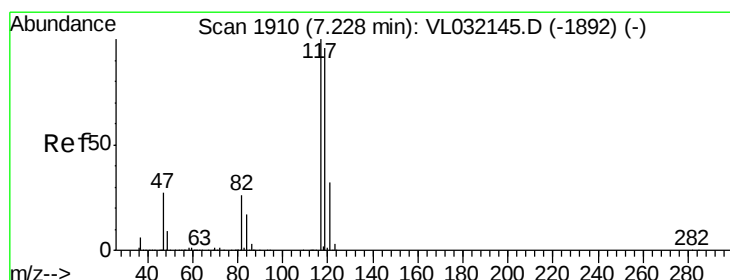
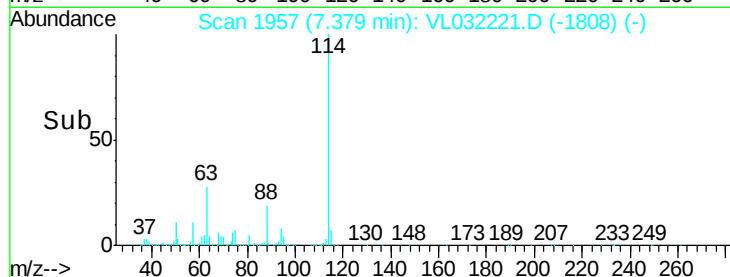
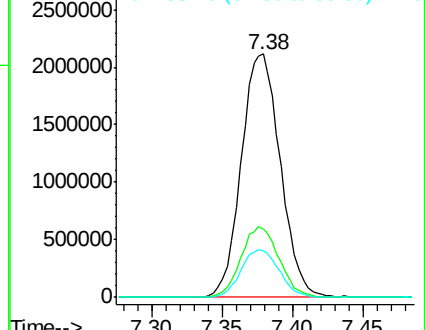
88 19.4 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35

Carbon Tetrachloride

Concen: 0.078 ppbv

RT: 7.22 min Scan# 1907

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

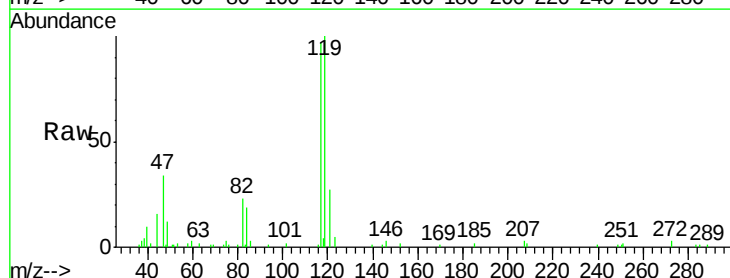
Tgt Ion:117 Resp: 21974

Ion Ratio Lower Upper

117 100

119 93.5 74.8 112.2

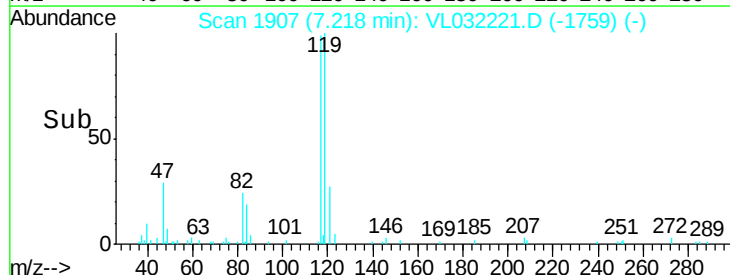
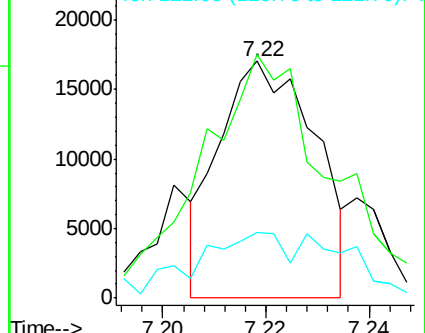
121 29.1 24.0 36.0

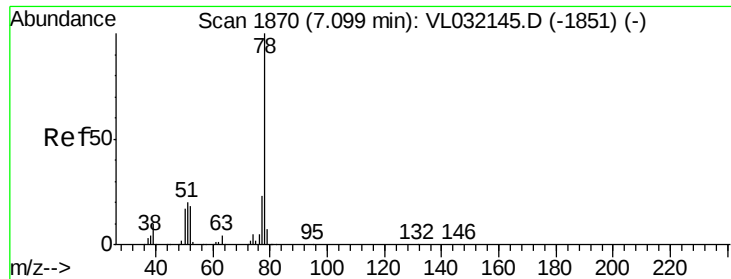


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.096 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

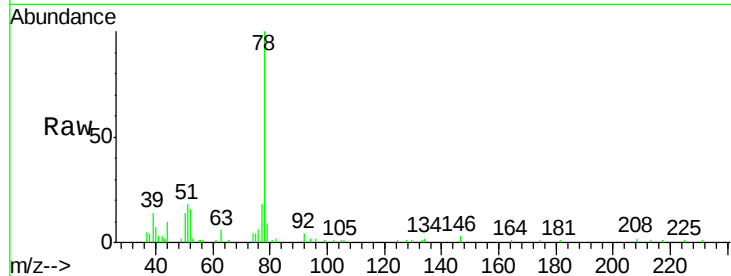
Tgt Ion: 78 Resp: 38088

Ion Ratio Lower Upper

78 100

77 19.0 17.7 26.5

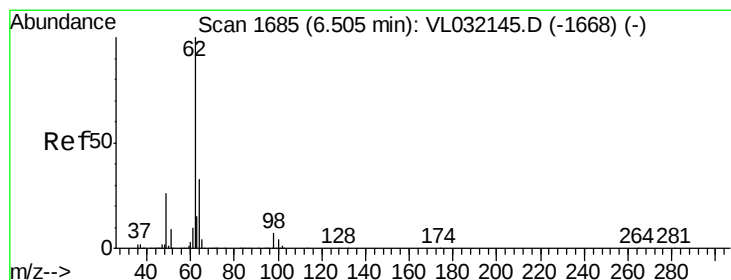
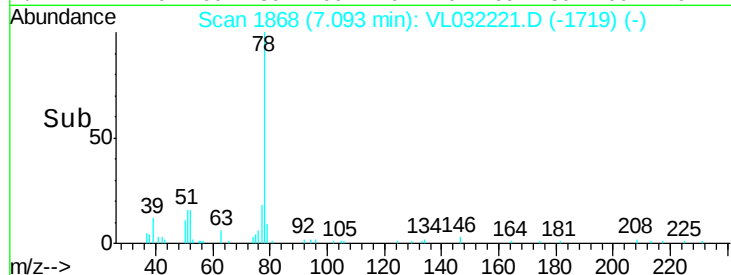
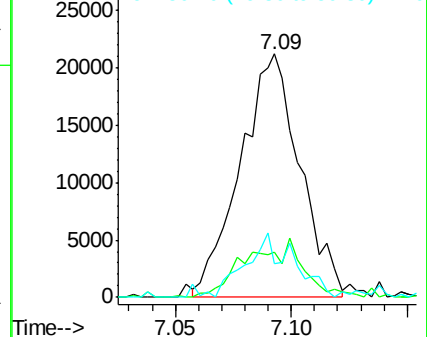
50 12.0 14.0 21.0#



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: 0.050 ppbv

RT: 6.50 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VL032221.D

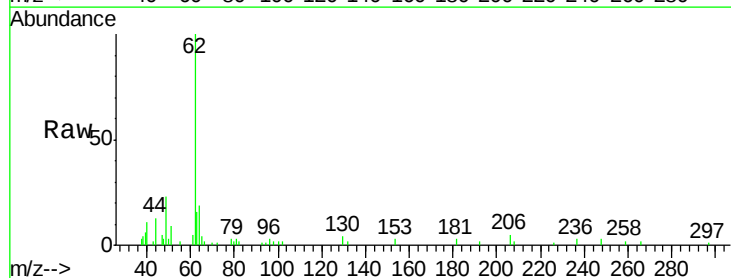
Acq: 6 Jul 2018 2:30

Tgt Ion: 62 Resp: 9930

Ion Ratio Lower Upper

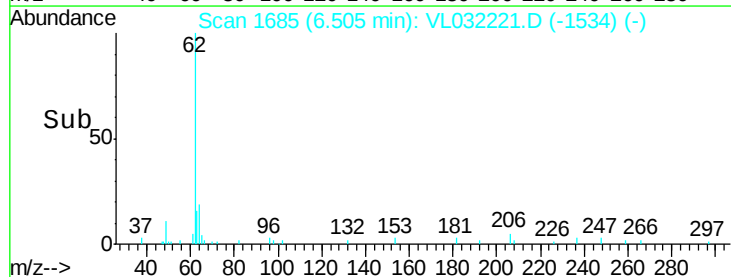
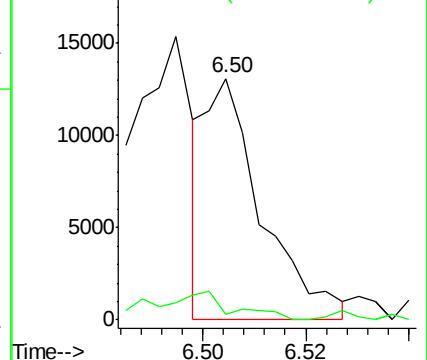
62 100

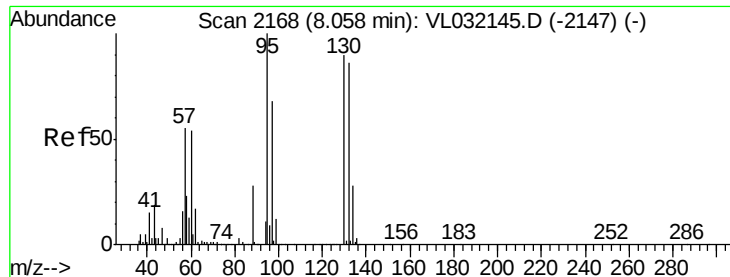
98 21.7 5.8 8.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.095 ppbv

RT: 8.05 min Scan# 2165

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tgt Ion:130 Resp: 14761

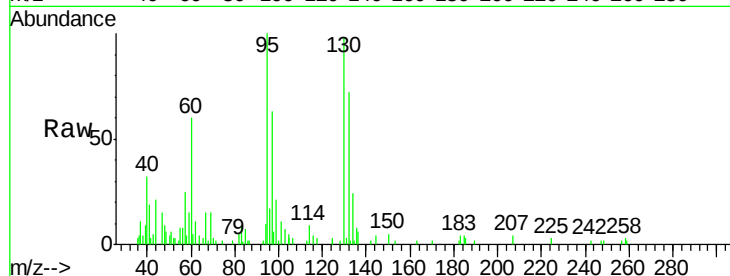
Ion Ratio Lower Upper

130 100

95 101.7 88.1 132.1

132 75.1 74.6 112.0

97 60.7 58.6 88.0

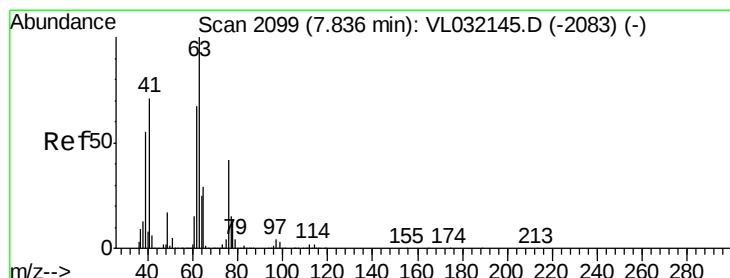
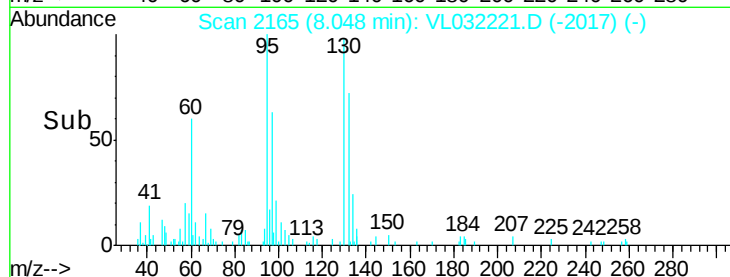
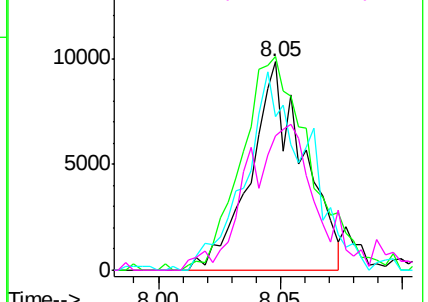


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.376 ppbv

RT: 7.38 min Scan# 1956

Delta R.T. -0.47 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

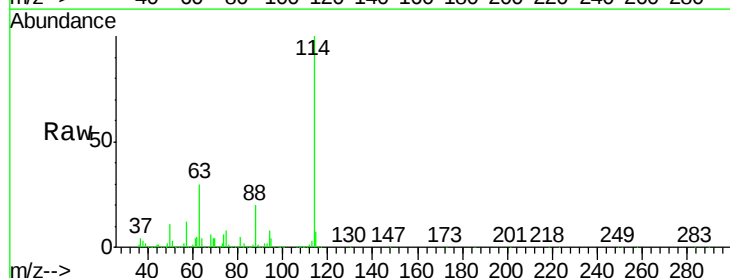
Tgt Ion: 63 Resp: 1153258

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

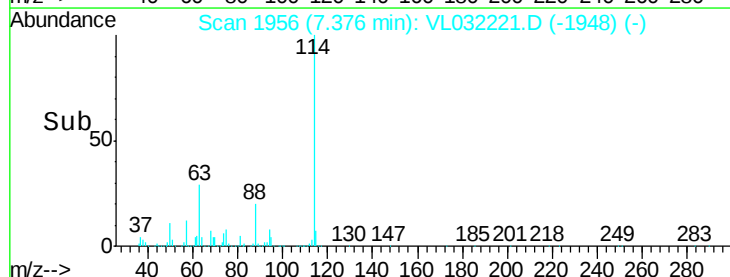
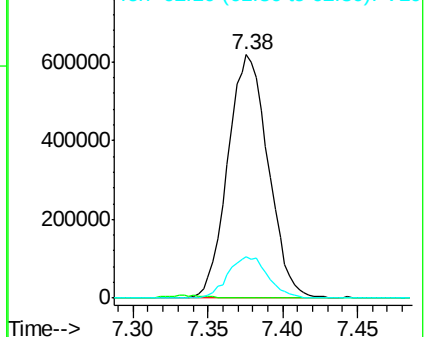
62 17.1 54.8 82.2#

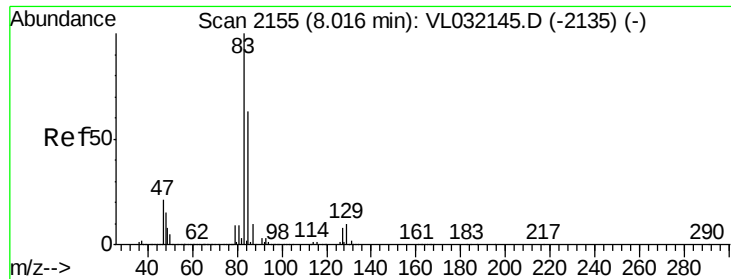


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.100 ppbv

RT: 8.01 min Scan# 2152

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

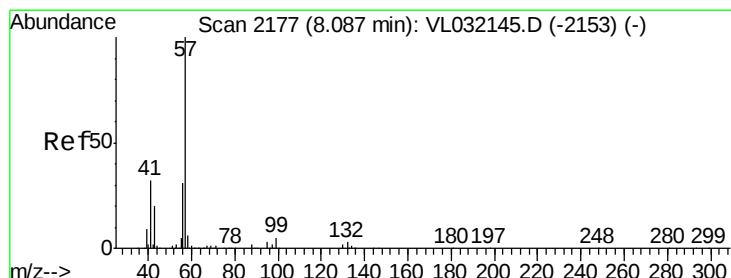
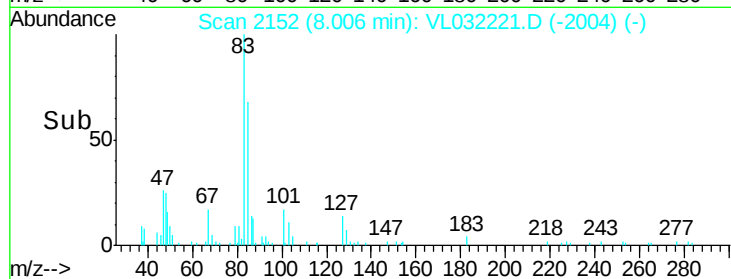
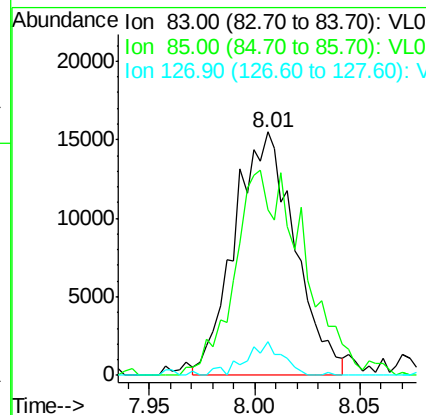
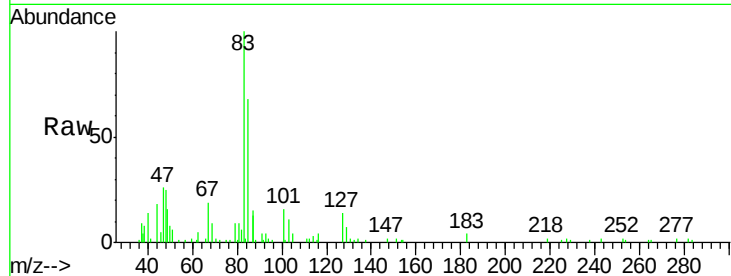
Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

Tgt Ion:	83	Resp:	30865
Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.6	79.0
127	14.1	6.5	9.7#



#44

2,2,4-Trimethylpentane

Concen: 0.042 ppbv

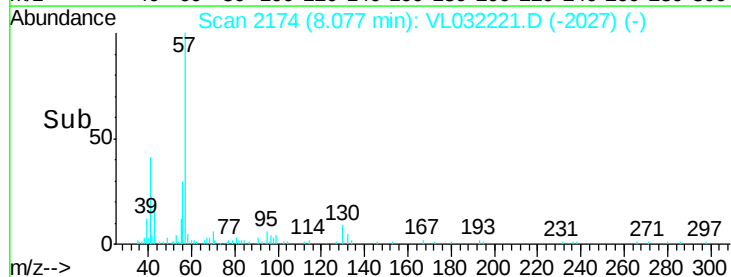
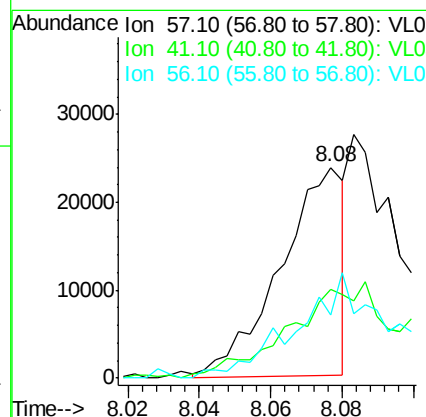
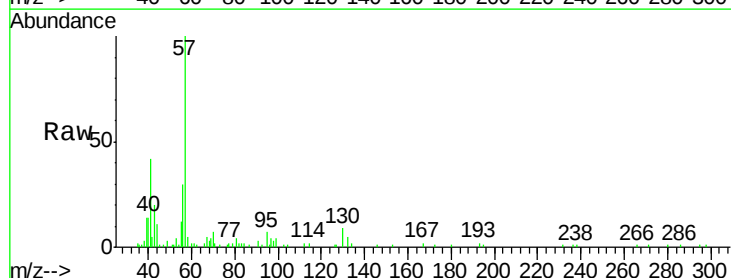
RT: 8.08 min Scan# 2174

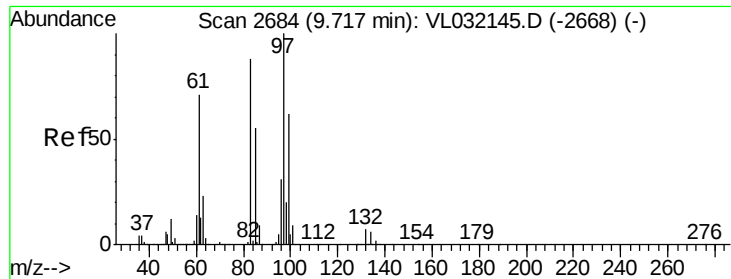
Delta R.T. -0.03 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Tgt Ion:	57	Resp:	29223
Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.3	36.5#
56	75.3	25.1	37.7#

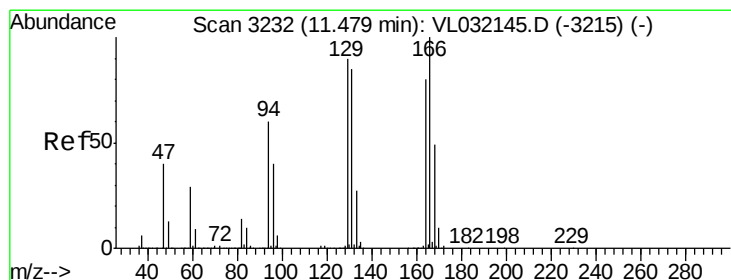
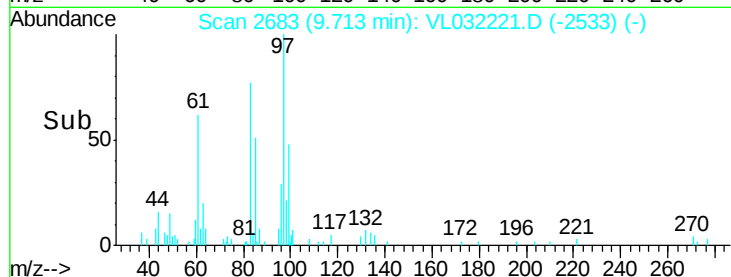
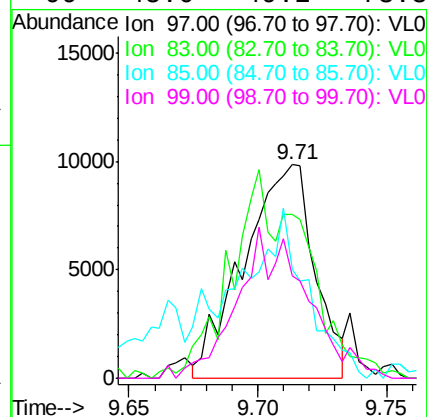
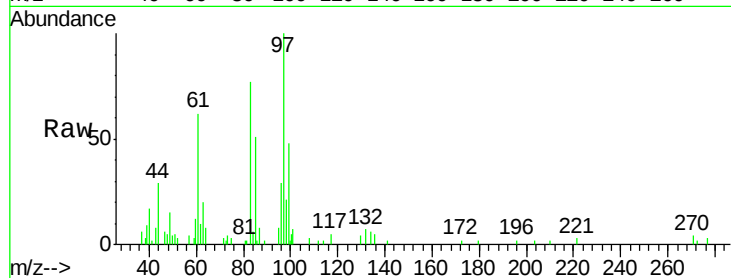




#47
 1,1,2-Trichloroethane
 Concen: 0.116 ppbv
 RT: 9.71 min Scan# 2683
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

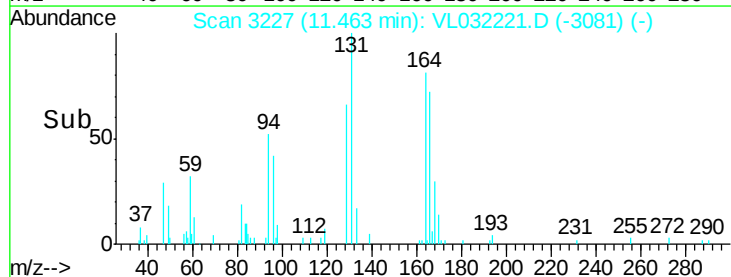
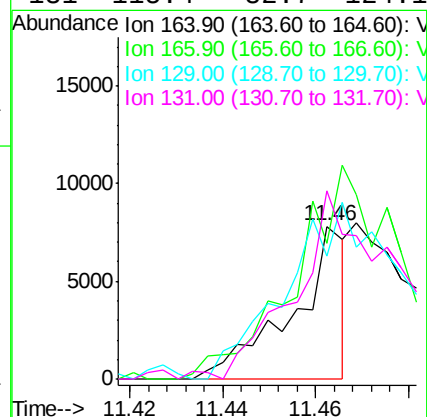
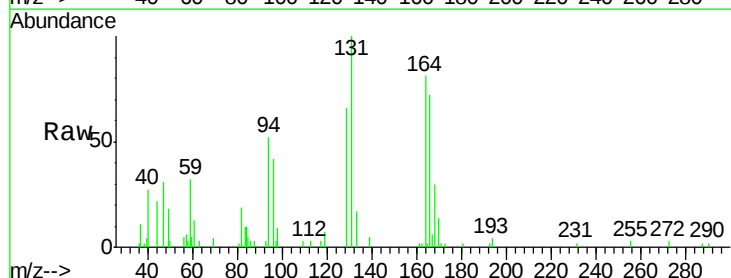
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

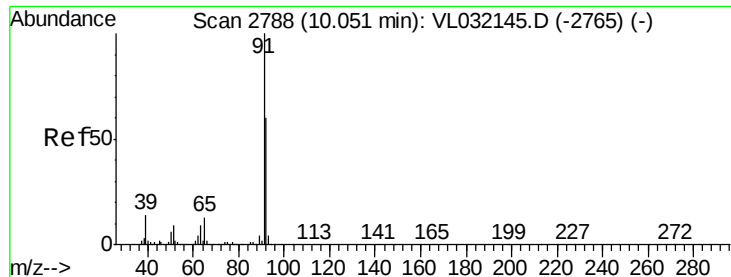
Tgt Ion: 97 Resp: 18833
 Ion Ratio Lower Upper
 97 100
 83 68.8 71.0 106.4#
 85 41.8 44.2 66.4#
 99 45.0 49.2 73.8#



#52
 Tetrachloroethene
 Concen: 0.043 ppbv
 RT: 11.46 min Scan# 3227
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion: 164 Resp: 6266
 Ion Ratio Lower Upper
 164 100
 166 83.4 100.6 151.0#
 129 79.0 84.0 126.0#
 131 115.4 82.7 124.1





#53

Toluene

Concen: 0.057 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

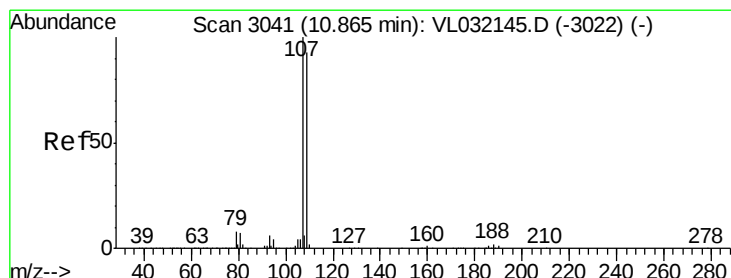
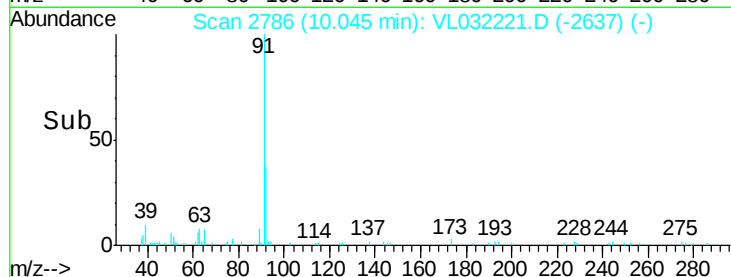
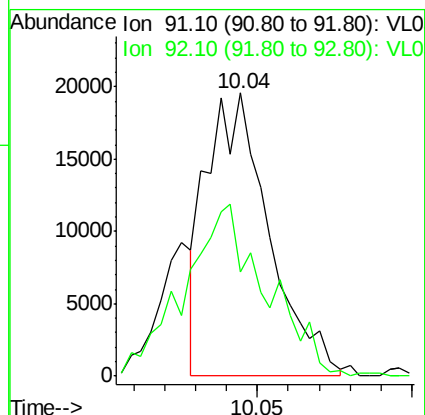
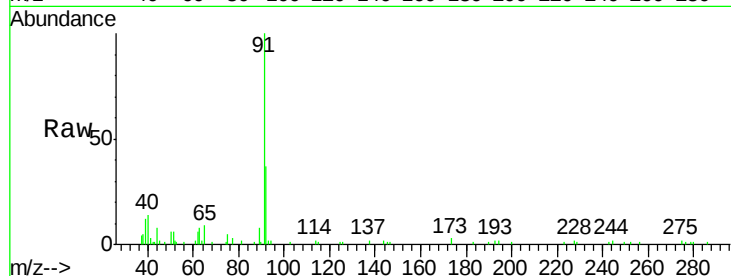
MDL-AIR-03-QT3-2018

Tgt Ion: 91 Resp: 27453

Ion Ratio Lower Upper

91 100

92 80.9 49.2 73.8#



#54

1,2-Dibromoethane

Concen: 0.067 ppbv

RT: 10.85 min Scan# 3038

Delta R.T. -0.02 min

Lab File: VL032221.D

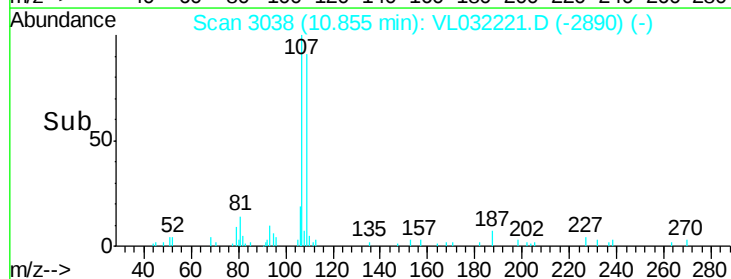
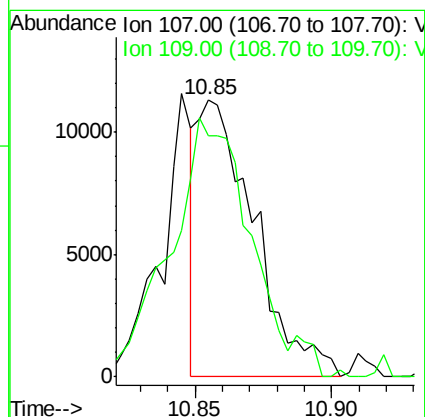
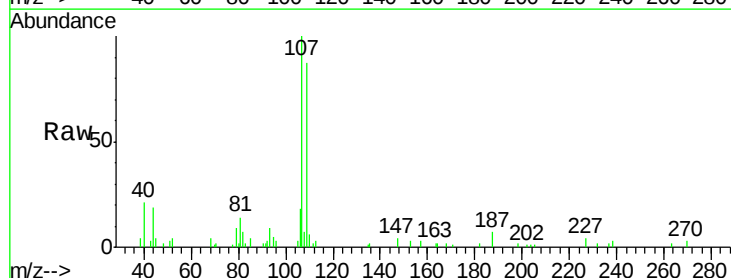
Acq: 6 Jul 2018 2:30

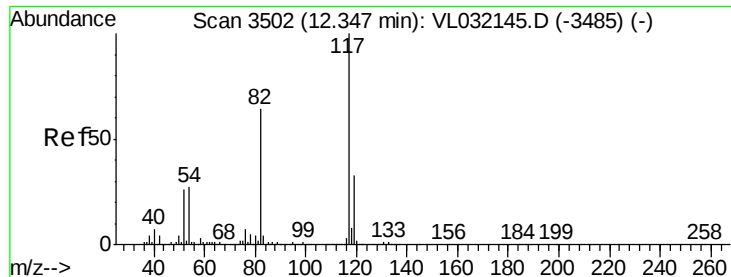
Tgt Ion: 107 Resp: 16277

Ion Ratio Lower Upper

107 100

109 84.5 75.0 112.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3499

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT3-2018

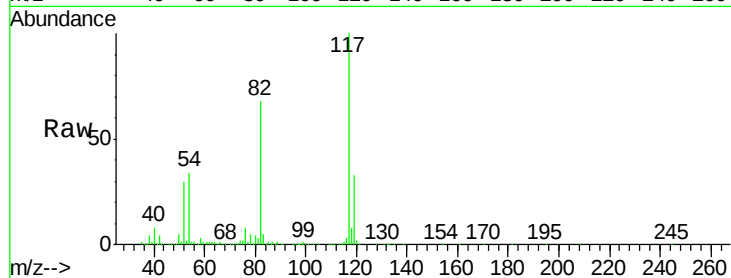
Tgt Ion:117 Resp: 3910062

Ion Ratio Lower Upper

117 100

82 70.7 47.8 71.8

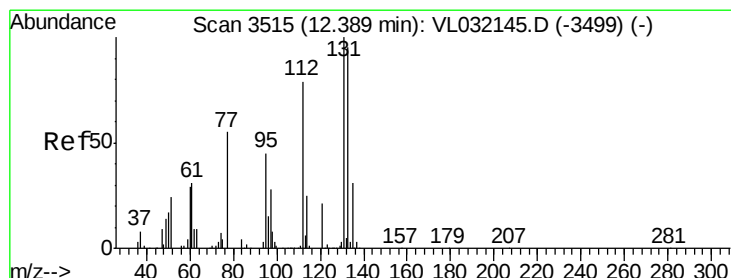
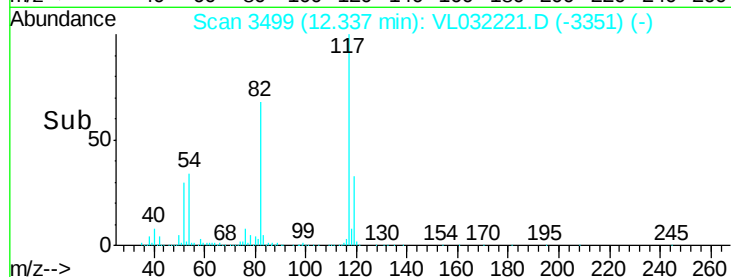
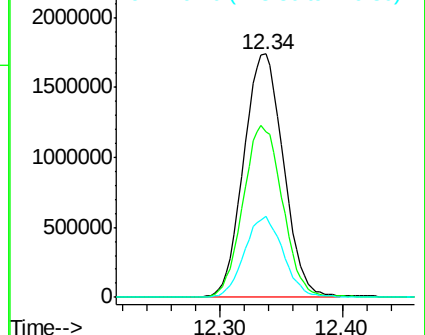
119 32.7 43.3 64.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.032 ppbv

RT: 12.38 min Scan# 3512

Delta R.T. -0.02 min

Lab File: VL032221.D

Acq: 6 Jul 2018 2:30

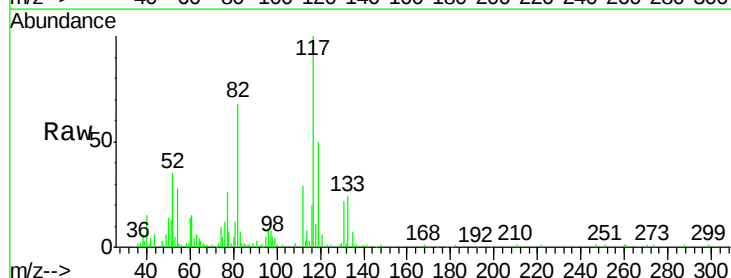
Tgt Ion:131 Resp: 5584

Ion Ratio Lower Upper

131 100

133 344.2 75.5 113.3#

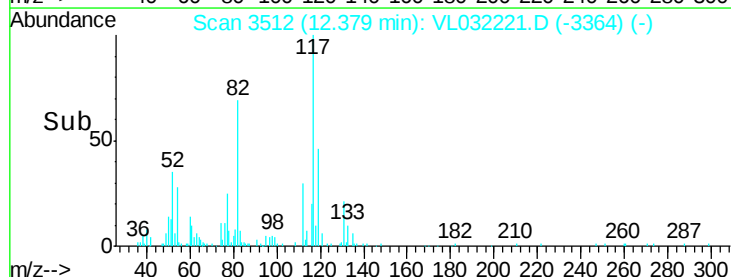
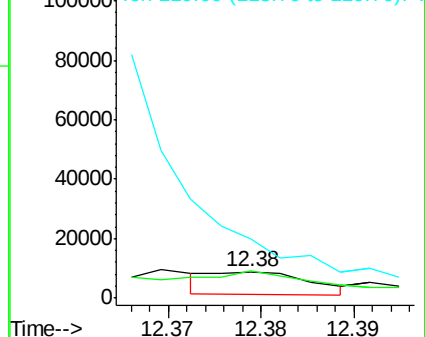
119 0.0 118.4 177.6#

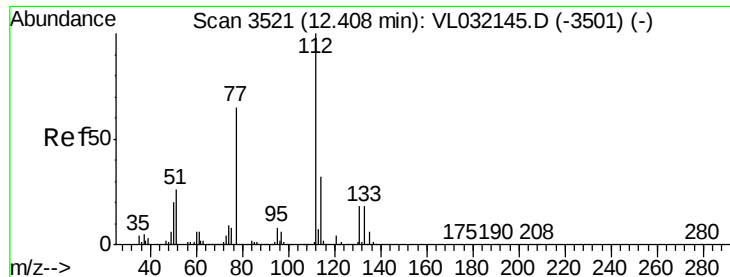


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

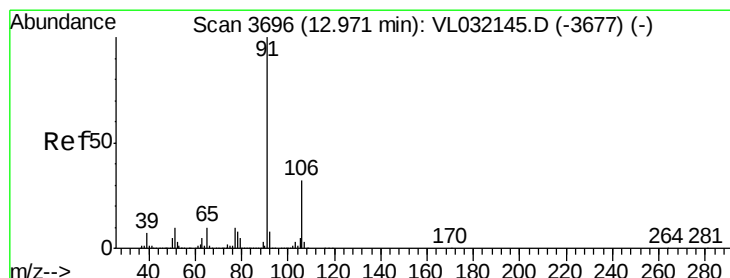
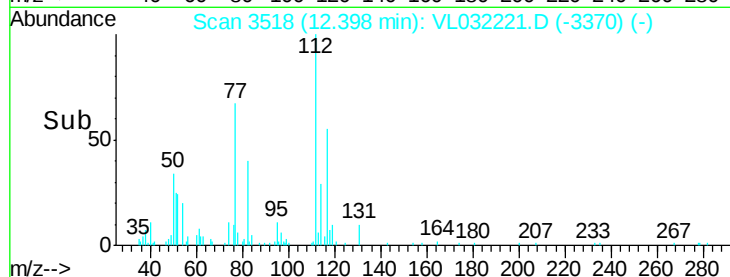
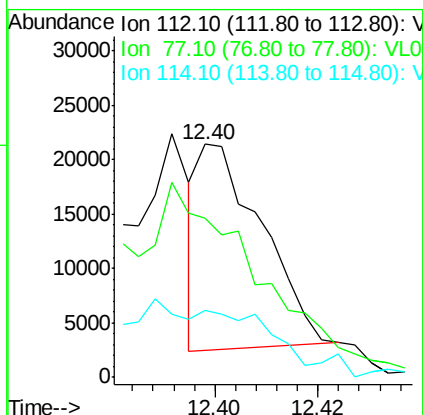
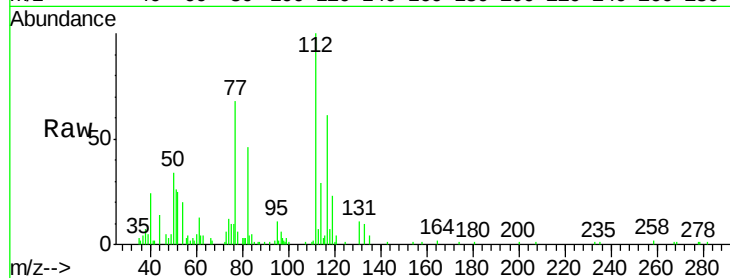




#57
Chlorobenzene
Concen: 0.047 ppbv
RT: 12.40 min Scan# 3518
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

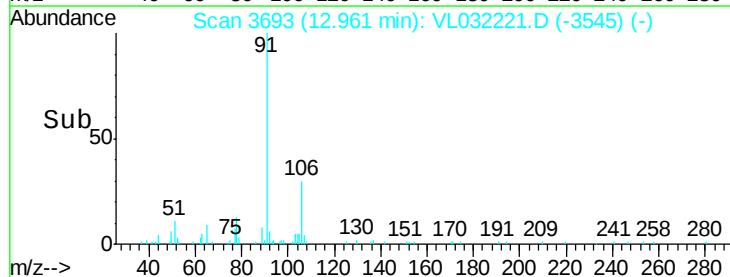
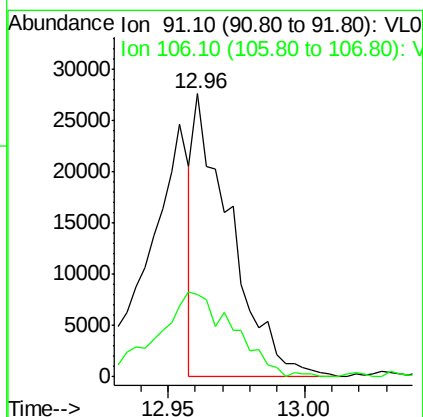
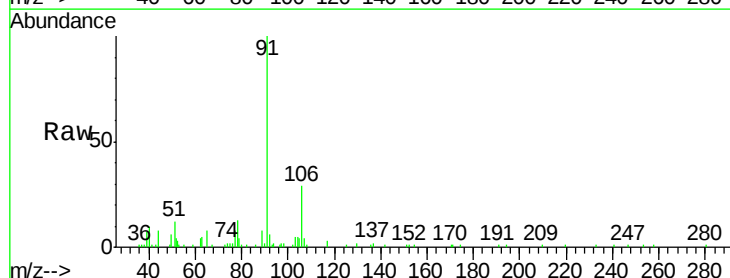
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

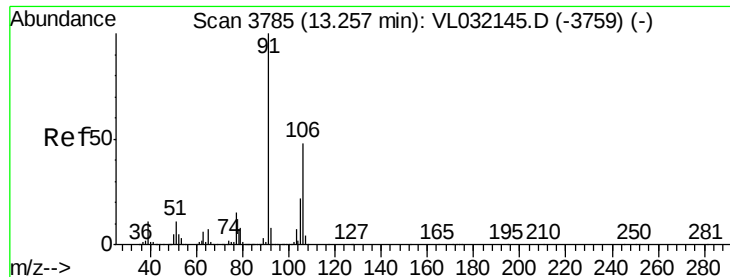
Tgt Ion: 112 Resp: 15942
Ion Ratio Lower Upper
112 100
77 61.9 52.6 78.8
114 22.5 27.9 34.1#



#58
Ethyl Benzene
Concen: 0.041 ppbv
RT: 12.96 min Scan# 3693
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 91 Resp: 25849
Ion Ratio Lower Upper
91 100
106 29.3 26.5 39.7

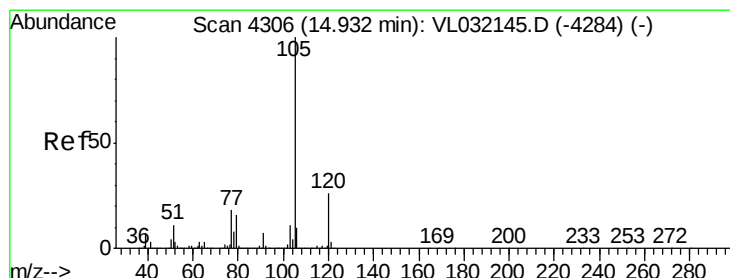
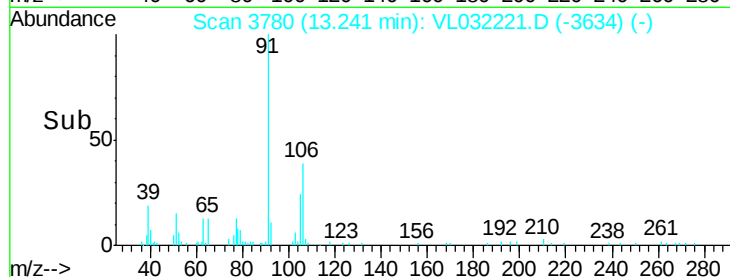
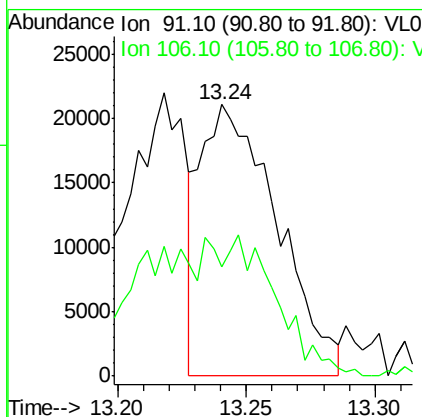
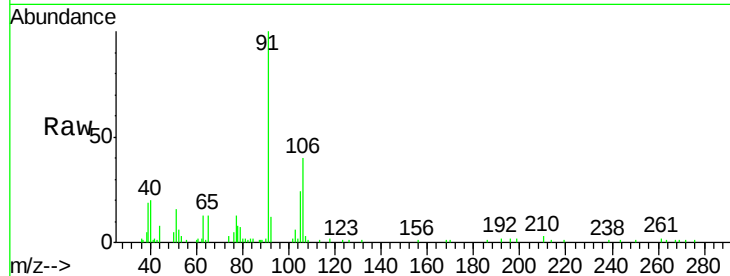




#59
m/p-Xylene
Concen: 0.086 ppbv
RT: 13.24 min Scan# 3780
Delta R.T. -0.03 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

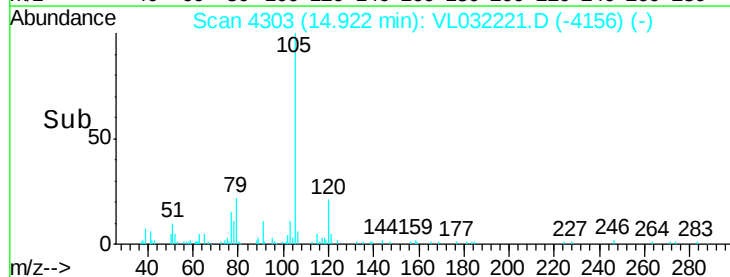
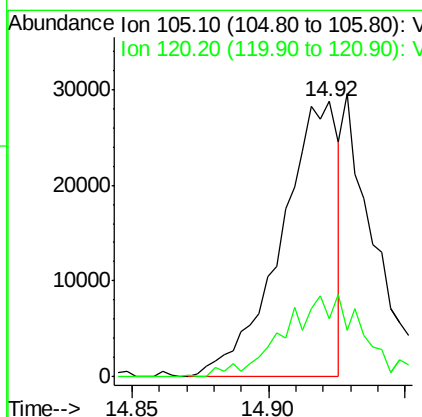
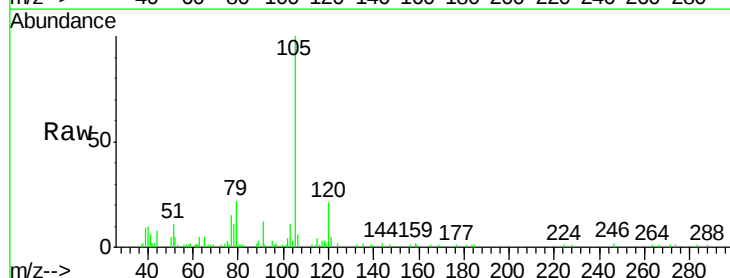
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

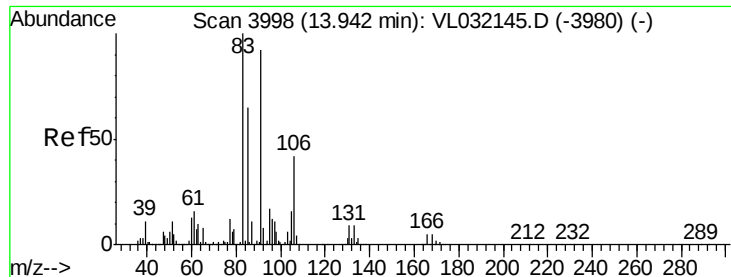
Tgt Ion: 91 Resp: 43548
Ion Ratio Lower Upper
91 100
106 90.4 38.6 58.0#



#62
Isopropylbenzene
Concen: 0.054 ppbv
RT: 14.92 min Scan# 4303
Delta R.T. -0.03 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 105 Resp: 41664
Ion Ratio Lower Upper
105 100
120 0.0 21.0 31.4#

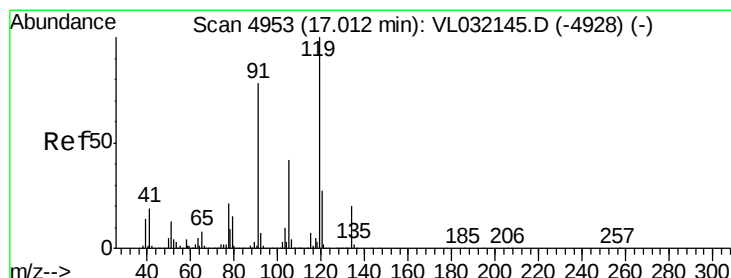
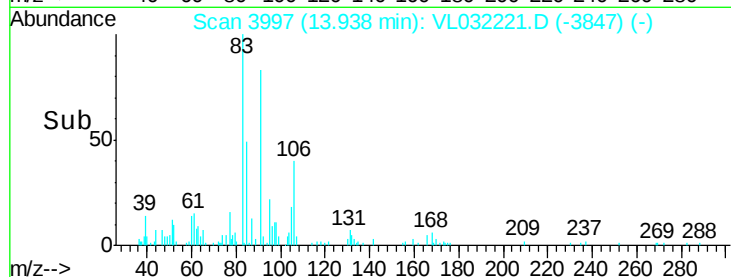
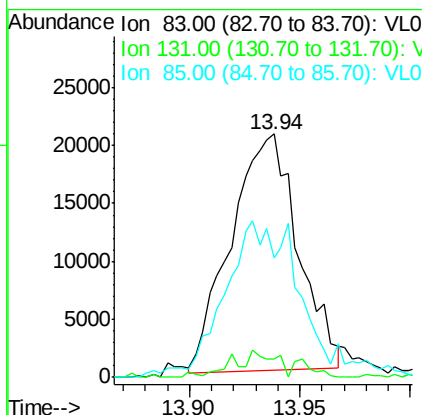
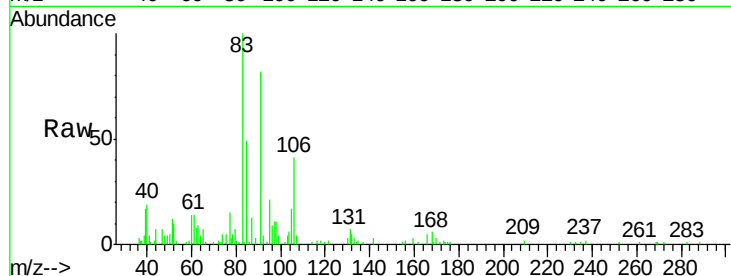




#63
1,1,2,2-Tetrachloroethane
Concen: 0.110 ppbv
RT: 13.94 min Scan# 3997
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

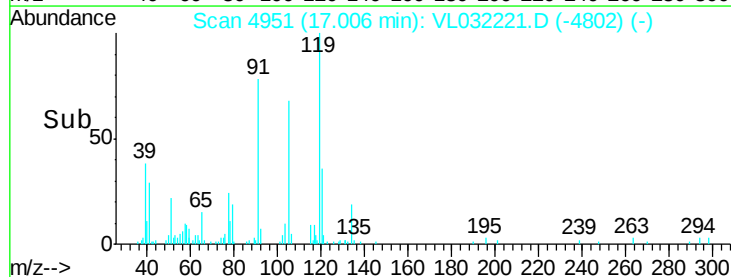
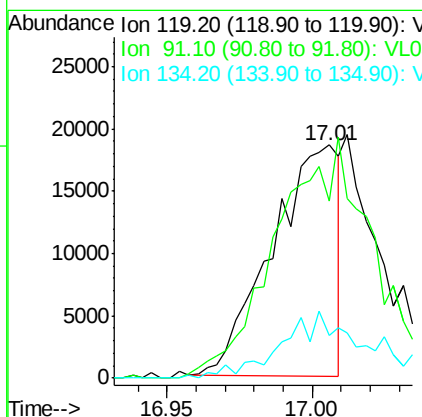
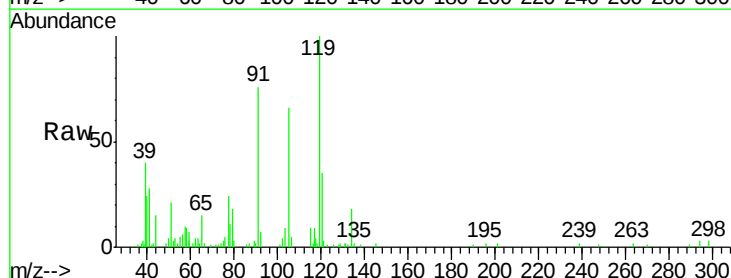
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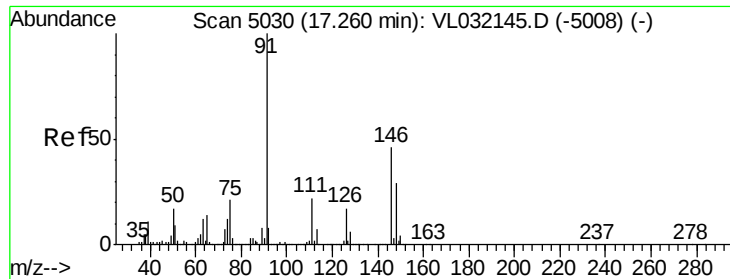
Tgt Ion: 83 Resp: 43075
Ion Ratio Lower Upper
83 100
131 9.5 4.6 13.8
85 75.9 32.4 97.2



#65
tert-Butylbenzene
Concen: 0.044 ppbv
RT: 17.01 min Scan# 4951
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 119 Resp: 29743
Ion Ratio Lower Upper
119 100
91 0.0 62.2 93.2#
134 36.2 16.2 24.2#

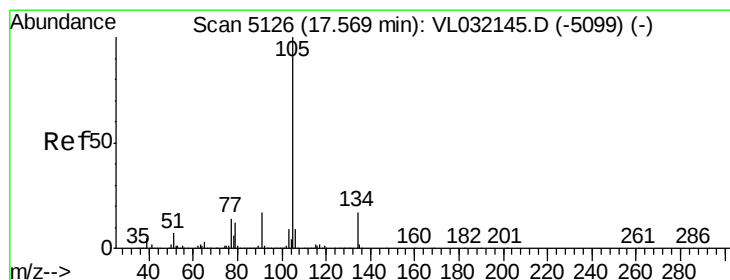
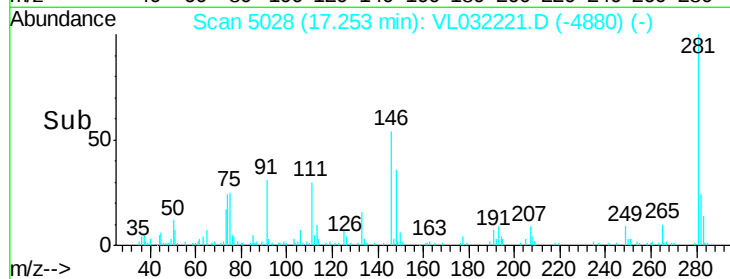
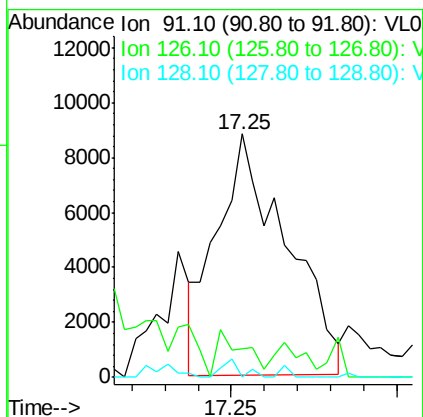
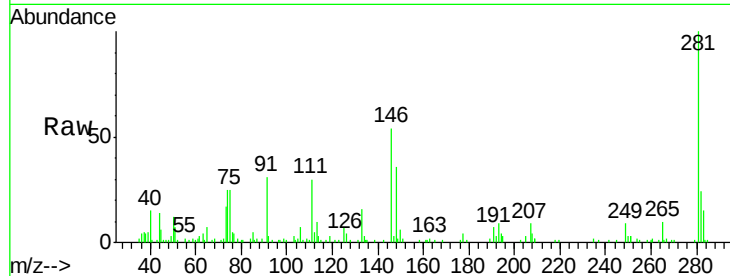




#66
Benzyl Chloride
Concen: 0.031 ppbv
RT: 17.25 min Scan# 5028
Delta R.T. -0.02 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

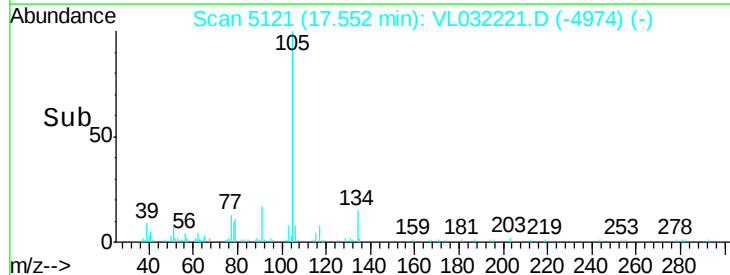
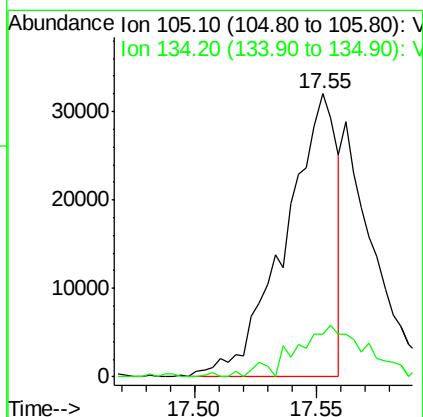
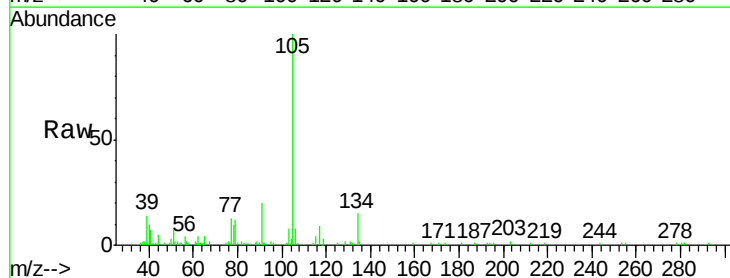
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

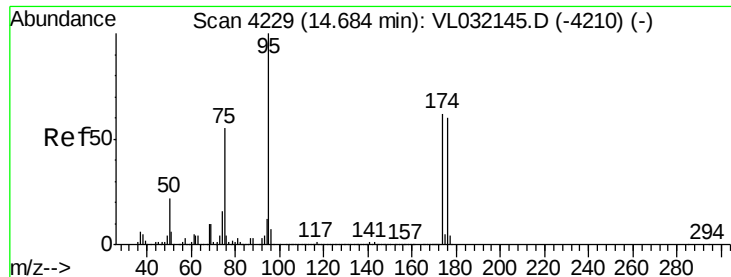
Tgt Ion: 91 Resp: 12927
Ion Ratio Lower Upper
91 100
126 0.0 15.7 23.5#
128 5.0 5.2 7.8#



#67
sec-Butylbenzene
Concen: 0.047 ppbv
RT: 17.55 min Scan# 5121
Delta R.T. -0.03 min
Lab File: VL032221.D
Acq: 6 Jul 2018 2:30

Tgt Ion: 105 Resp: 47040
Ion Ratio Lower Upper
105 100
134 26.1 14.7 22.1#

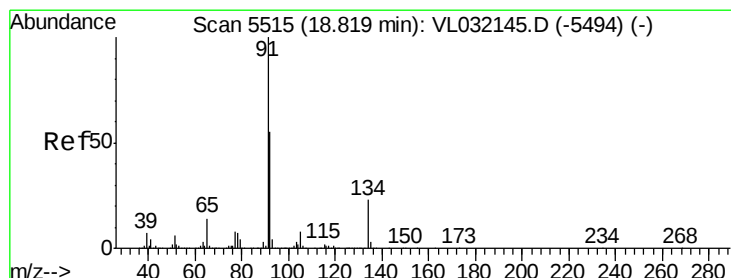
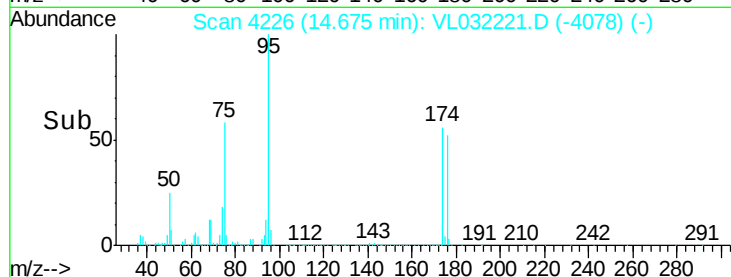
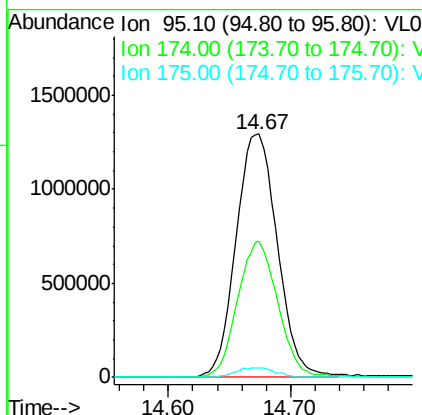
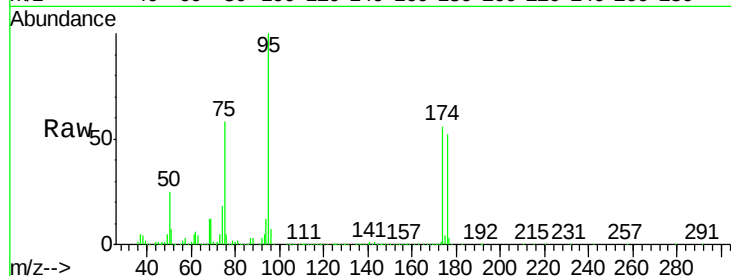




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.146 ppbv
 RT: 14.67 min Scan# 4226
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

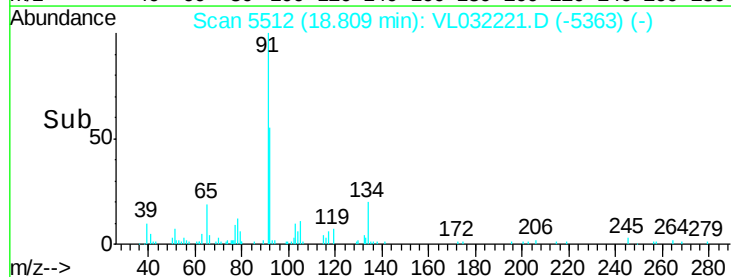
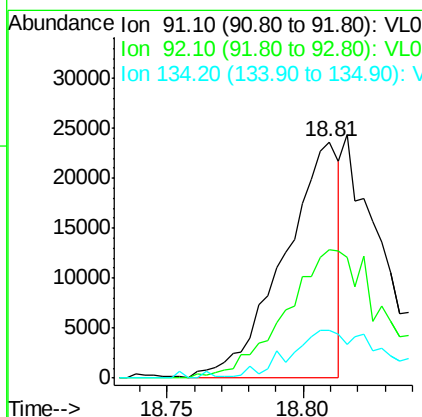
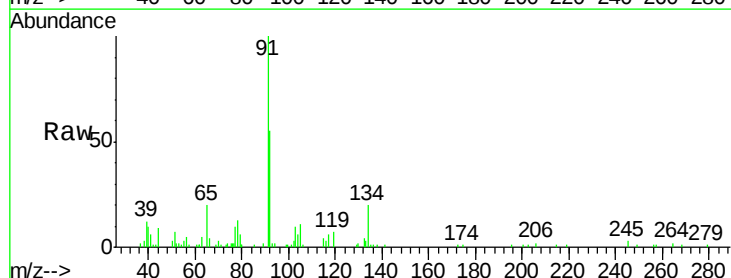
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

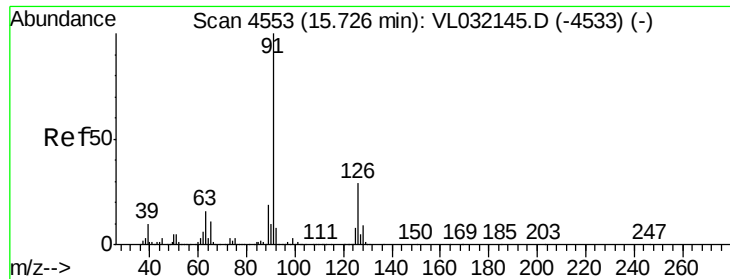
Tgt Ion: 95 Resp: 3032576
 Ion Ratio Lower Upper
 95 100
 174 54.5 52.1 78.1
 175 3.9 4.0 6.0#



#70
 n-Butylbenzene
 Concen: 0.040 ppbv
 RT: 18.81 min Scan# 5512
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion: 91 Resp: 33114
 Ion Ratio Lower Upper
 91 100
 92 95.7 43.7 65.5#
 134 34.7 18.9 28.3#

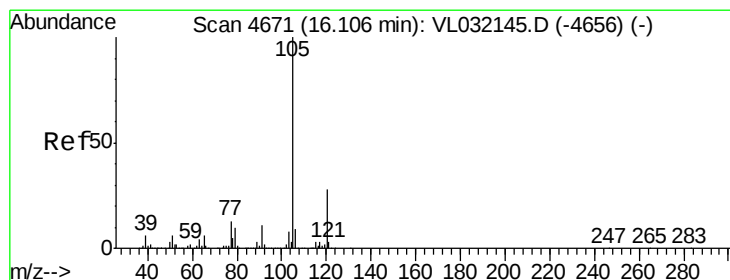
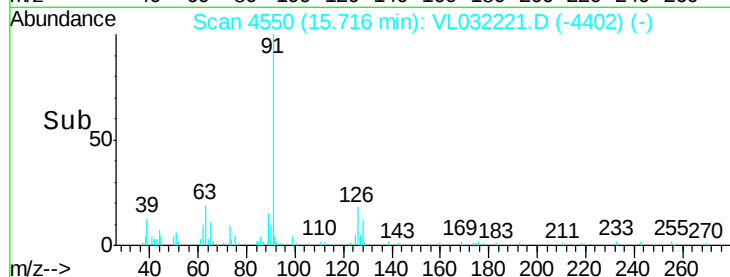
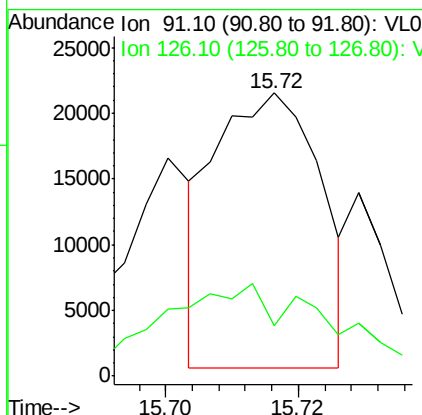
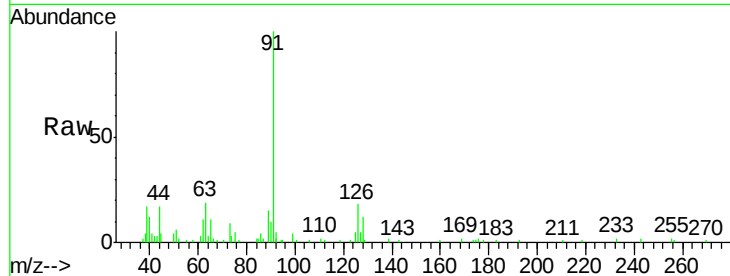




#71
 2-Chlorotoluene
 Concen: 0.039 ppbv
 RT: 15.72 min Scan# 4550
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

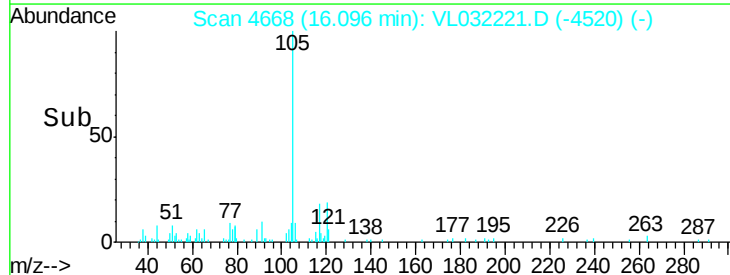
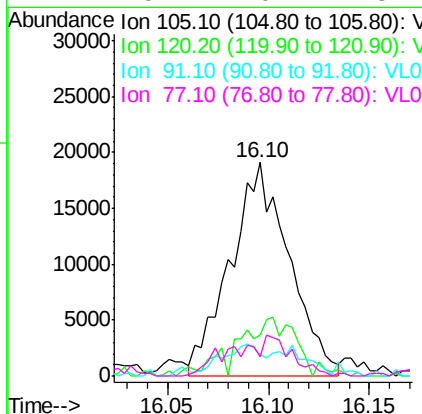
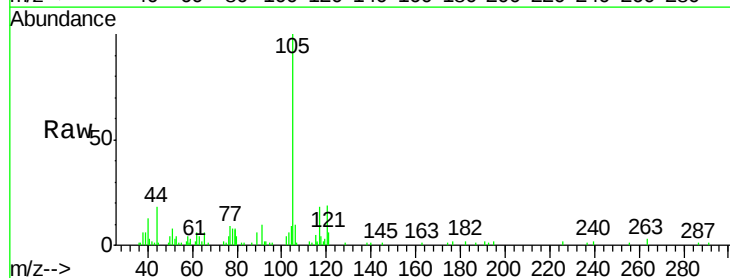
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

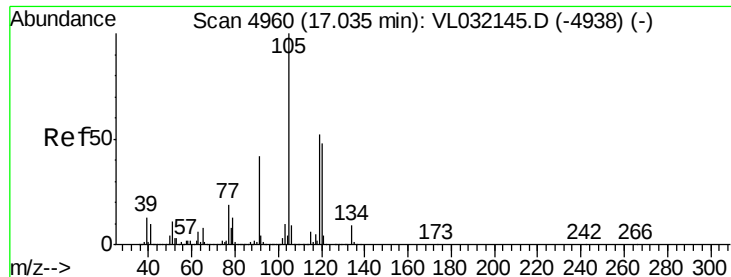
Tgt Ion: 91 Resp: 23040
 Ion Ratio Lower Upper
 91 100
 126 63.2 12.8 51.0#



#72
 4-Ethyltoluene
 Concen: 0.060 ppbv
 RT: 16.10 min Scan# 4668
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion: 105 Resp: 38883
 Ion Ratio Lower Upper
 105 100
 120 28.5 24.3 36.5
 91 19.8 9.4 14.0#
 77 19.2 10.2 15.2#

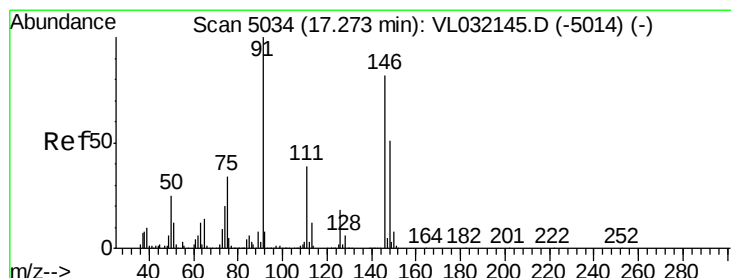
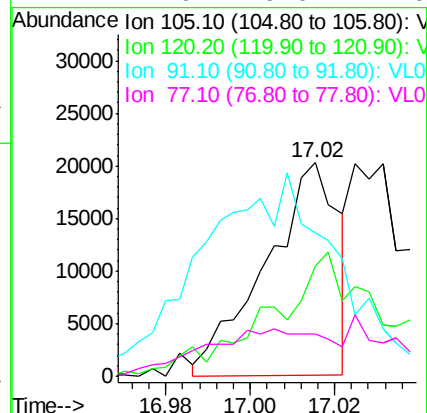
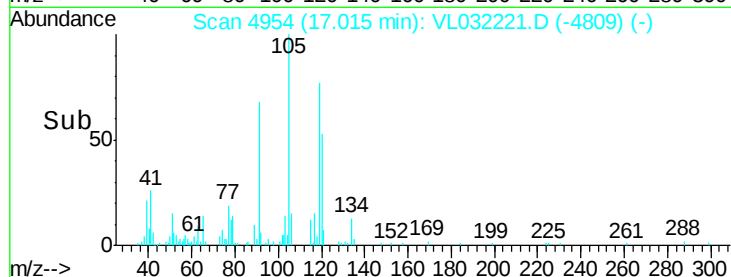
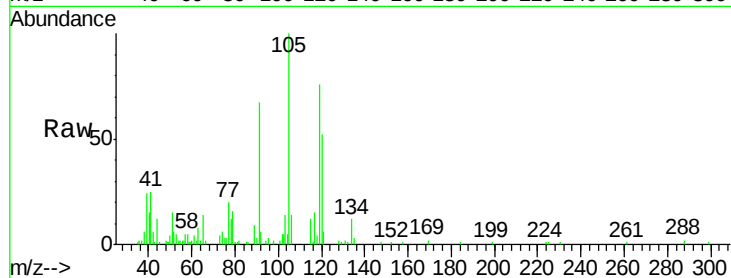




#74
 1,2,4-Trimethylbenzene
 Concen: 0.039 ppbv
 RT: 17.02 min Scan# 4954
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

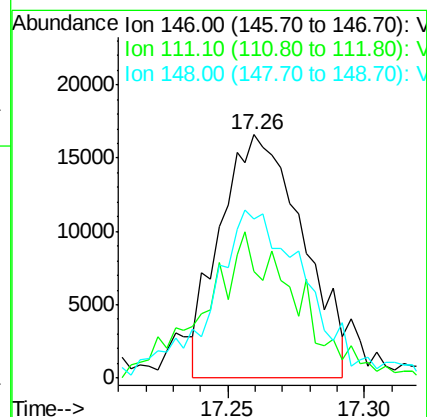
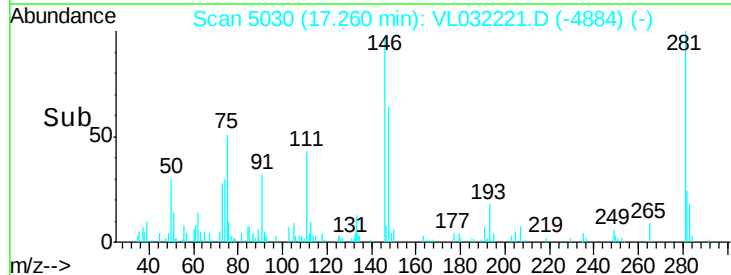
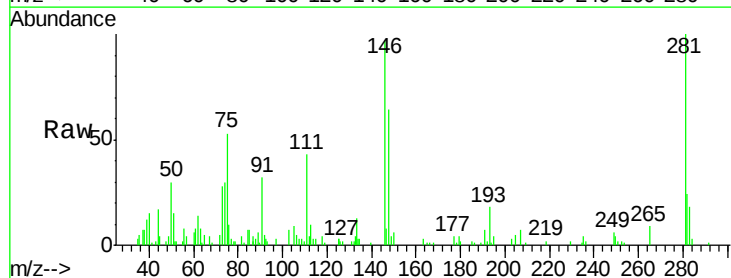
Instrument :
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 ClientSampleId :
 MDL-AIR-03-QT3-2018

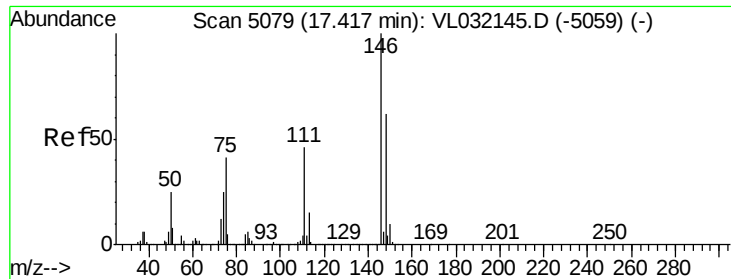
Tgt Ion:	105	Resp:	24195
Ion	Ratio	Lower	Upper
105	100		
120	40.0	38.8	58.2
91	12.6	33.6	50.4#
77	7.9	16.0	24.0#



#75
 1,3-Dichlorobenzene
 Concen: 0.099 ppbv
 RT: 17.26 min Scan# 5030
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion:	146	Resp:	34926
Ion	Ratio	Lower	Upper
146	100		
111	67.3	22.9	68.8
148	87.1	31.7	95.1

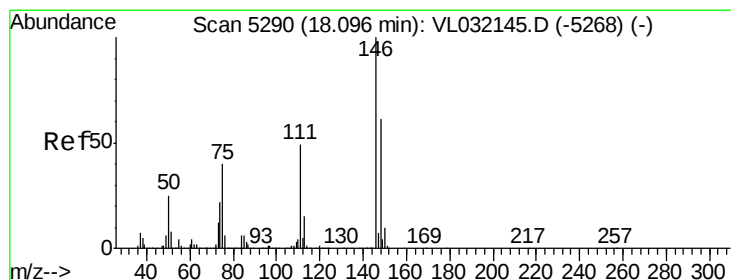
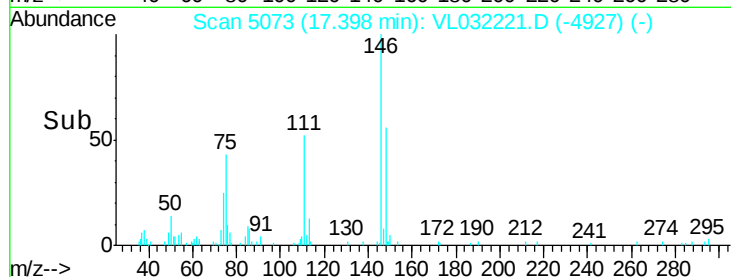
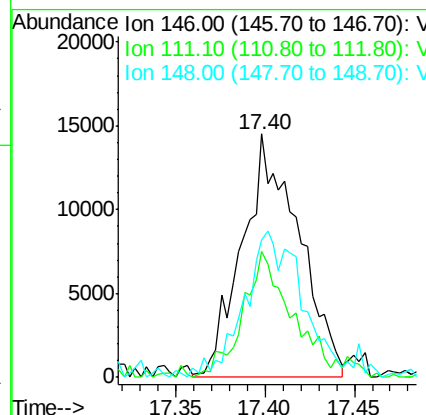
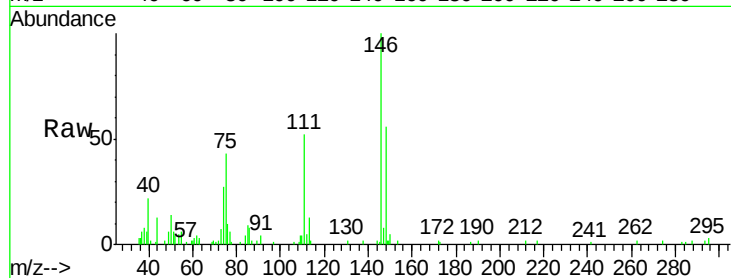




#76
 1,4-Dichlorobenzene
 Concen: 0.090 ppbv
 RT: 17.40 min Scan# 5073
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

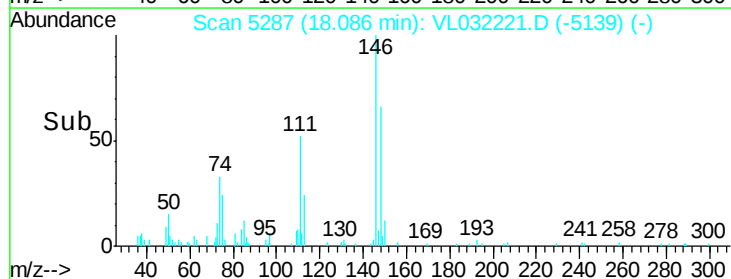
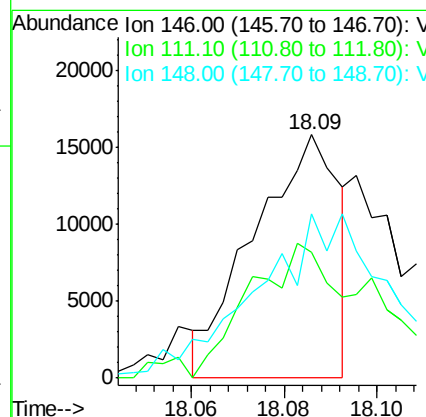
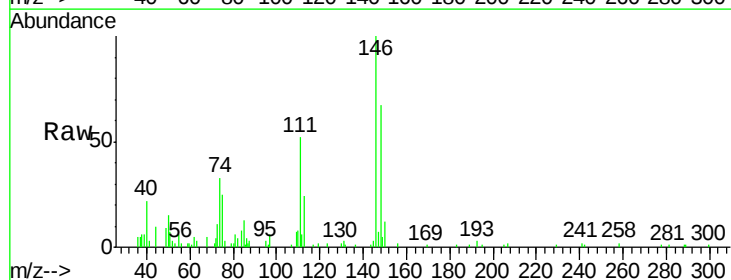
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

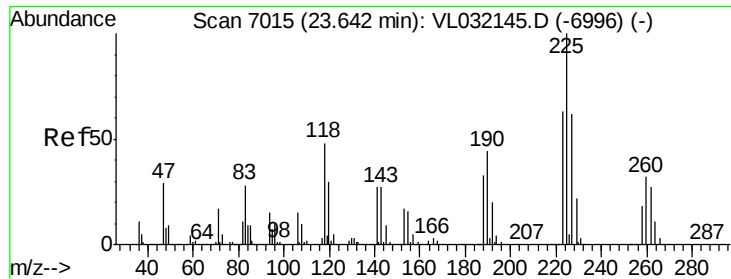
Tgt Ion:146 Resp: 31972
 Ion Ratio Lower Upper
 146 100
 111 47.7 21.9 65.8
 148 65.3 32.1 96.5



#77
 1,2-Dichlorobenzene
 Concen: 0.057 ppbv
 RT: 18.09 min Scan# 5287
 Delta R.T. -0.02 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Tgt Ion:146 Resp: 20136
 Ion Ratio Lower Upper
 146 100
 111 92.1 23.4 70.3#
 148 0.0 32.0 96.0#





#78
 Hexachloro-1,3-Butadiene
 Concen: 0.072 ppbv
 RT: 23.63 min Scan# 7010
 Delta R.T. -0.03 min
 Lab File: VL032221.D
 Acq: 6 Jul 2018 2:30

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tgt Ion: 225 Resp: 8853
 Ion Ratio Lower Upper
 225 100
 223 114.6 51.0 76.4#
 227 0.0 51.4 77.0#

