

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030221\
 Data File : VL036429.D
 Acq On : 2 Mar 2021 14:50
 Operator : SY/AP
 Sample : M1458-15 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2021

Quant Time: Mar 03 03:12:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1598195	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3450098	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3090541	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2494660	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	13226	0.055 ppbv	96
3) Chlorodifluoromethane	2.98	51	24852	0.125 ppbv	100
4) Chloromethane	3.13	50	10121	0.105 ppbv #	41
5) Vinyl Chloride	3.26	62	7757	0.087 ppbv #	52
6) Bromomethane	3.46	94	2246	0.042 ppbv #	69
7) Chloroethane	3.54	64	1719	0.054 ppbv	93
8) Dichlorotetrafluoroethane	3.18	85	24987	0.115 ppbv	95
9) Propene	3.01	41	13368	0.181 ppbv	84
10) Heptane	8.11	43	10077	0.046 ppbv #	35
11) Trichlorofluoromethane	3.94	101	26735	0.114 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	4440	0.031 ppbv #	13
14) Bromoethene	3.73	108	4016	0.066 ppbv #	53
18) 1,1-Dichloroethene	4.28	96	3982	0.061 ppbv	78
20) Methylene Chloride	4.34	84	9786	0.155 ppbv #	70
21) Allyl Chloride	4.40	41	9951	0.091 ppbv #	83
24) 1,1-Dichloroethane	5.00	63	12000	0.071 ppbv #	92
25) Ethyl Acetate	5.67	43	19447	0.052 ppbv #	73
26) Hexane	5.68	57	14252	0.092 ppbv #	75
27) Carbon Disulfide	4.54	76	7110	0.050 ppbv #	59
28) Methyl tert-Butyl Ether	5.05	73	18683	0.092 ppbv	97
29) Chloroform	5.73	83	14976	0.060 ppbv	88
32) 1,1,1-Trichloroethane	6.49	97	24280	0.104 ppbv	95
35) Carbon Tetrachloride	7.00	117	9863	0.043 ppbv	94
37) 1,2-Dichloroethane	6.29	62	9062	0.050 ppbv #	83
38) Trichloroethene	7.82	130	10378	0.099 ppbv #	76
39) 1,2-Dichloropropane	7.16	63	1006901	8.458 ppbv #	24
42) Bromodichloromethane	7.77	83	23049	0.095 ppbv #	94
46) cis-1,3-Dichloropropene	8.69	75	5936	0.039 ppbv #	67
47) 1,1,2-Trichloroethane	9.46	97	4378	0.036 ppbv #	44
48) Dibromochloromethane	10.29	129	13290	0.073 ppbv	78
53) Toluene	9.79	91	12517	0.039 ppbv #	20
54) 1,2-Dibromoethane	10.59	107	12191	0.069 ppbv	93
57) Chlorobenzene	12.14	112	9770	0.041 ppbv #	37
58) Ethyl Benzene	12.70	91	13853	0.033 ppbv	93
60) o-Xylene	13.67	91	17980	0.051 ppbv #	32
61) Styrene	13.51	104	6641	0.030 ppbv #	23
63) 1,1,2,2-Tetrachloroethane	13.67	83	17267	0.062 ppbv #	24
71) 2-Chlorotoluene	15.45	91	28235	0.069 ppbv	91
72) 4-Ethyltoluene	15.83	105	13470	0.034 ppbv #	61
76) 1,4-Dichlorobenzene	17.13	146	6942	0.031 ppbv #	1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration

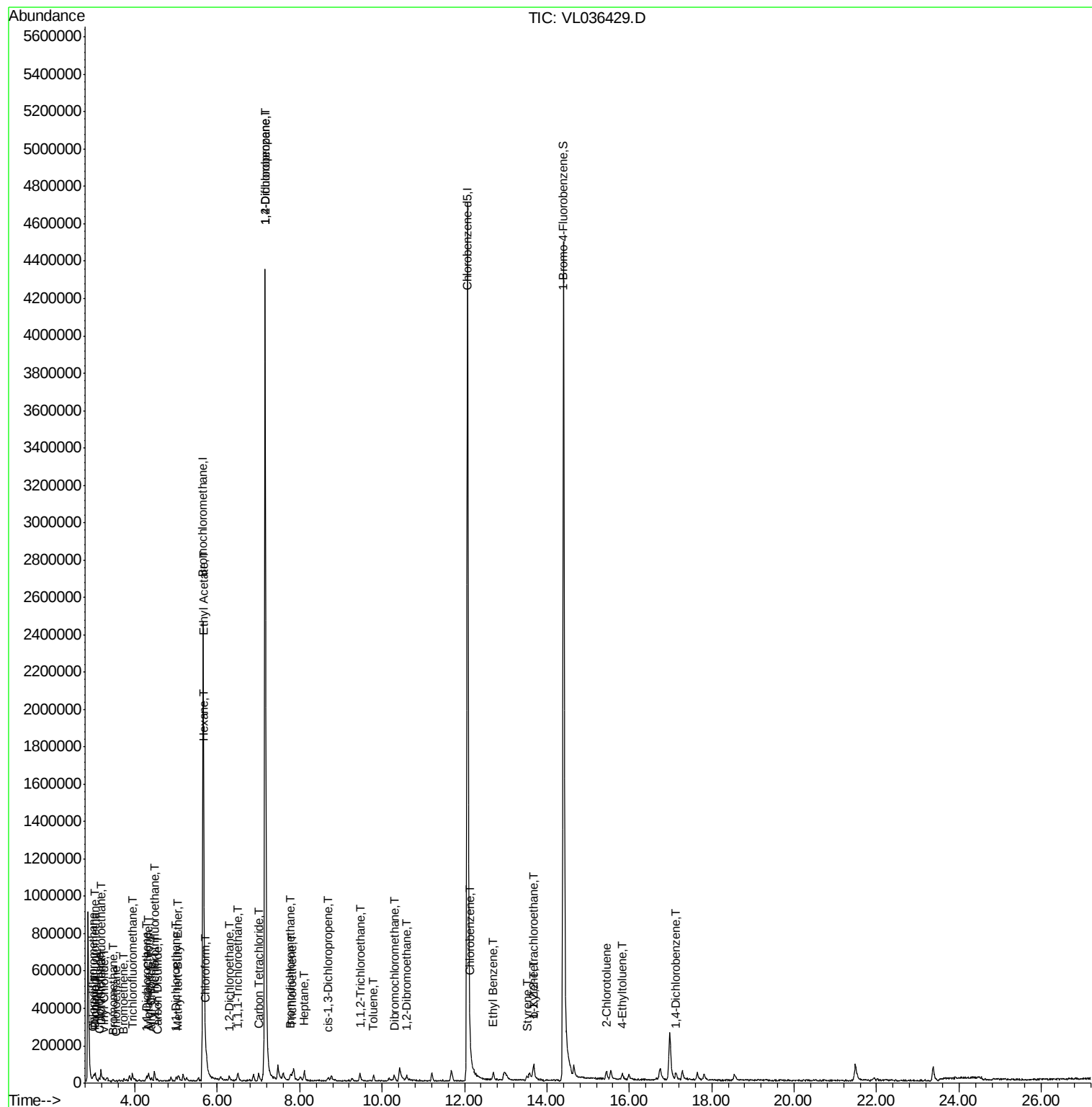
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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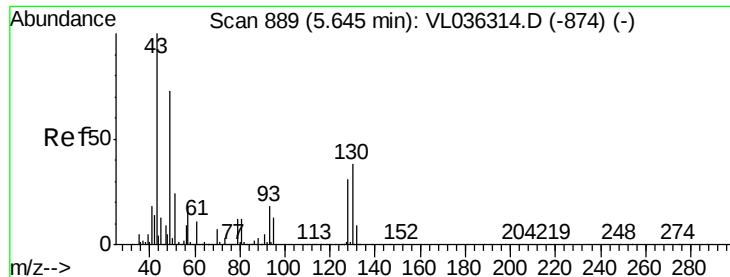
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

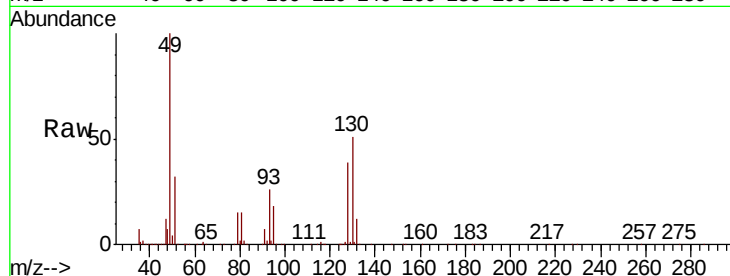
Tot Ion: 49 Resp: 1598195

Ion Ratio Lower Upper

49 100

128 42.5 20.8 62.5

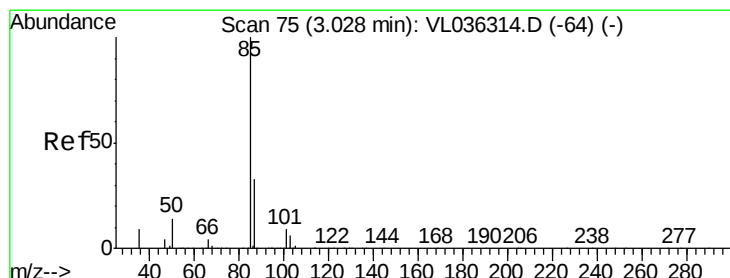
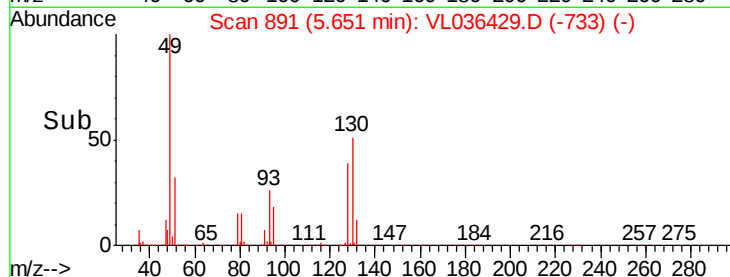
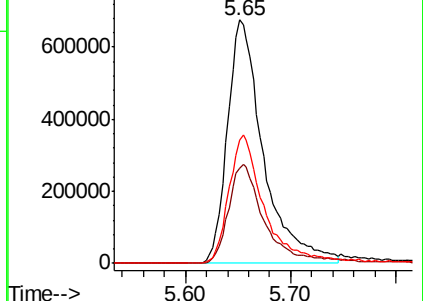
130 53.3 26.7 80.1



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: 0.055 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL036429.D

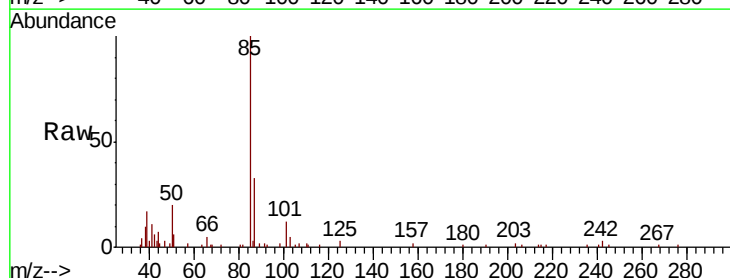
Acq: 2 Mar 2021 14:50

Tgt Ion: 85 Resp: 13226

Ion Ratio Lower Upper

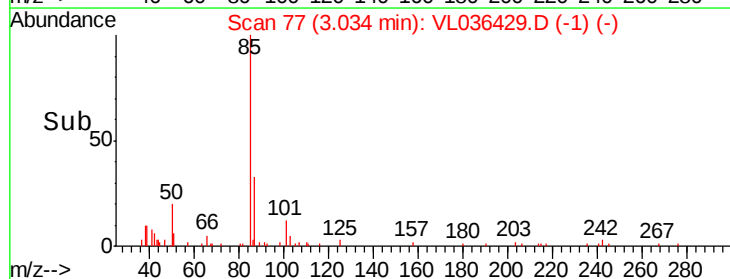
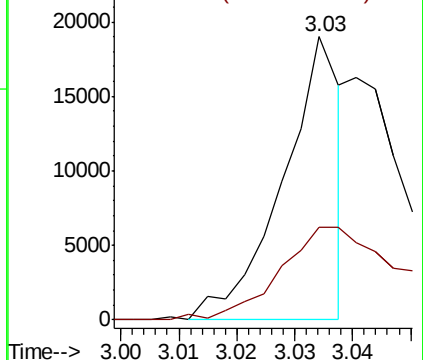
85 100

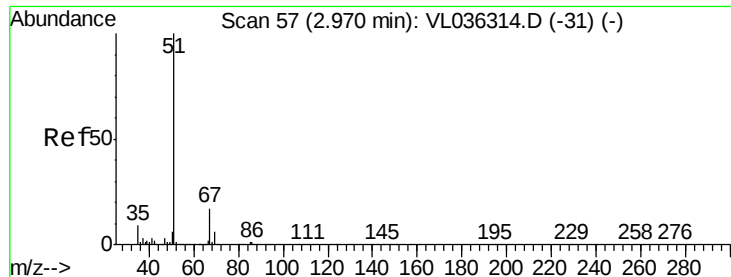
87 31.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.125 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

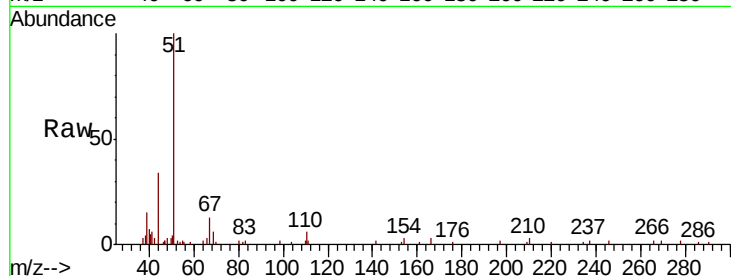
MDL-AIR-01-QT1-2021

Tot Ion: 51 Resp: 24852

Ion Ratio Lower Upper

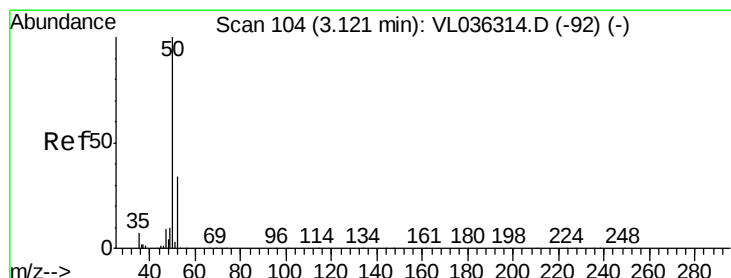
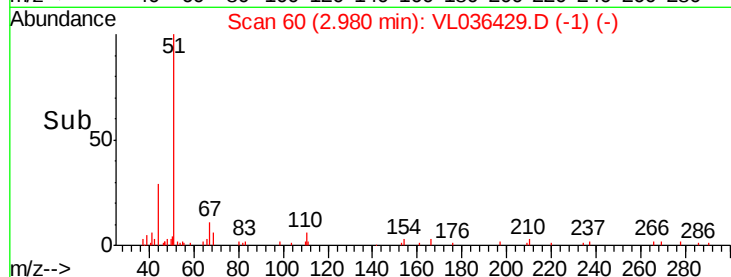
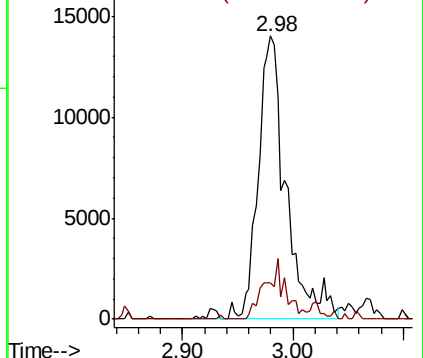
51 100

67 18.3 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.105 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.01 min

Lab File: VL036429.D

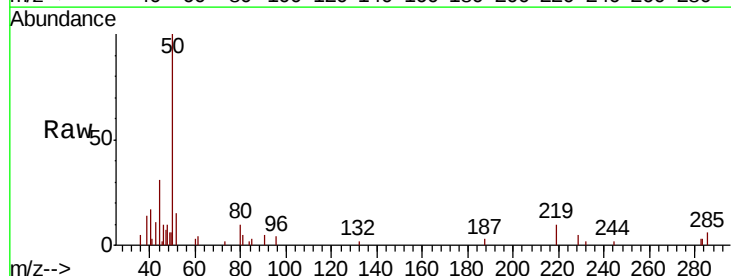
Acq: 2 Mar 2021 14:50

Tgt Ion: 50 Resp: 10121

Ion Ratio Lower Upper

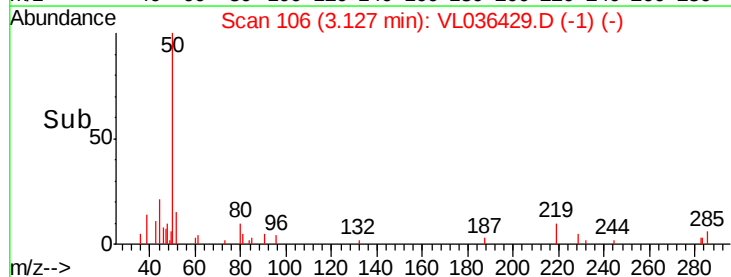
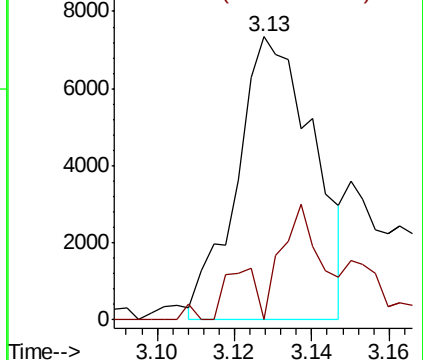
50 100

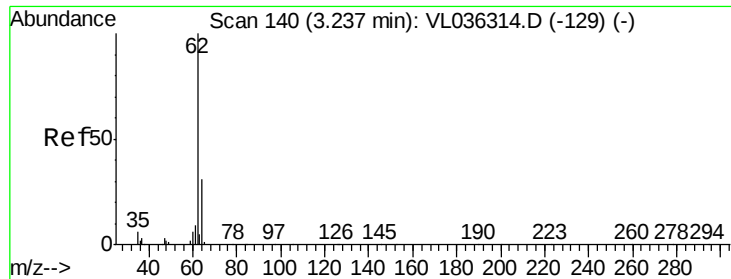
52 0.0 27.0 40.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.087 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.02 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

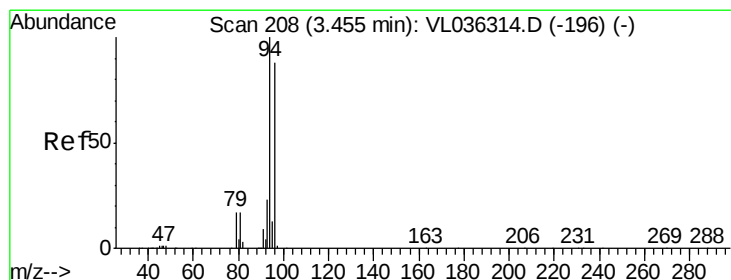
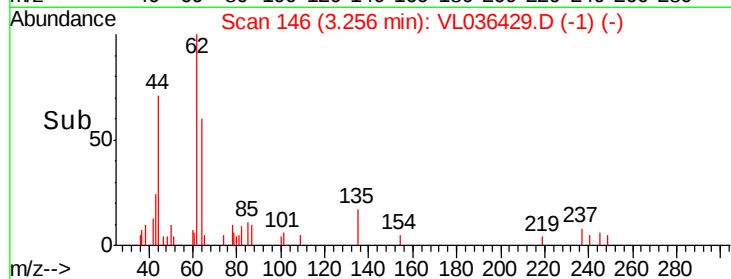
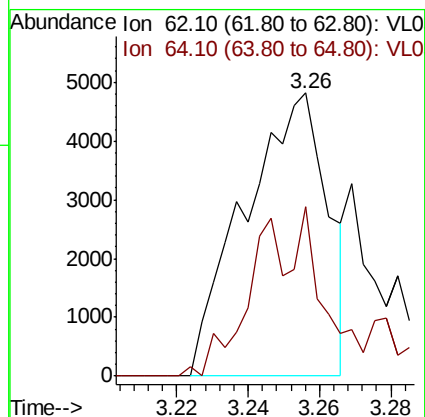
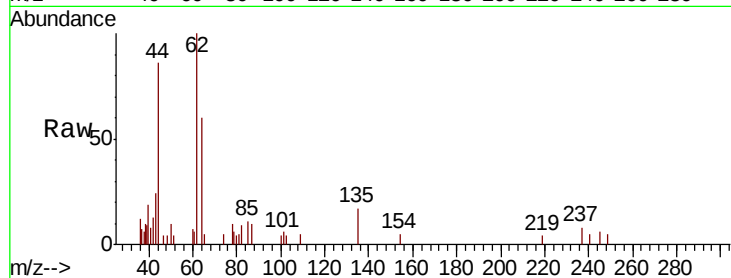
MDL-AIR-01-QT1-2021

Tot Ion: 62 Resp: 7757

Ion Ratio Lower Upper

62 100

64 56.5 24.4 36.6#



#6

Bromomethane

Concen: 0.042 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.01 min

Lab File: VL036429.D

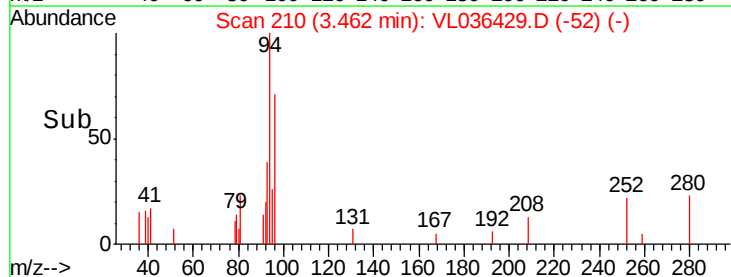
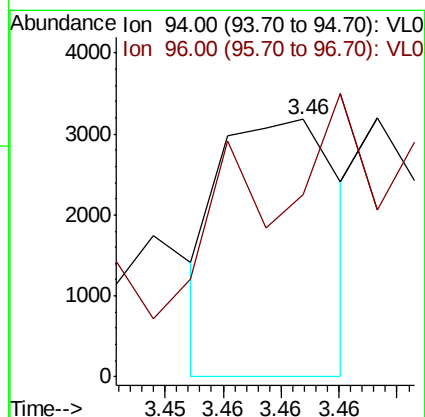
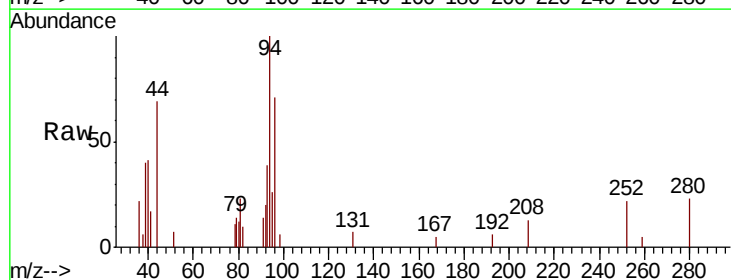
Acq: 2 Mar 2021 14:50

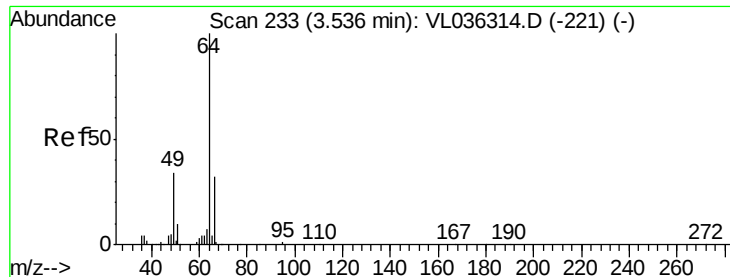
Tgt Ion: 94 Resp: 2246

Ion Ratio Lower Upper

94 100

96 59.1 70.8 106.2#





#7

Chloroethane

Concen: 0.054 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

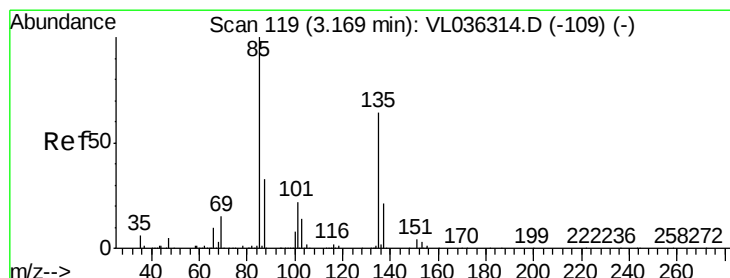
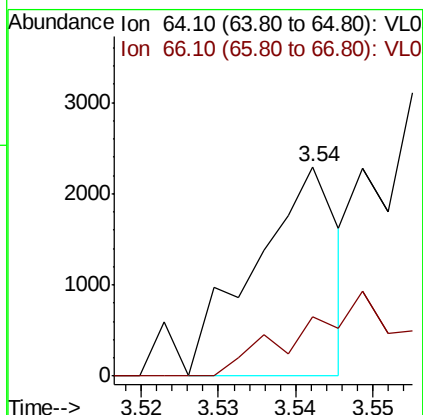
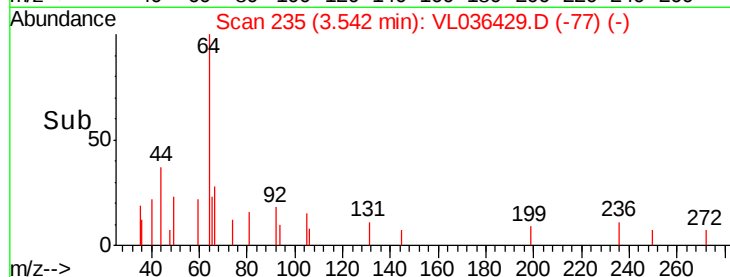
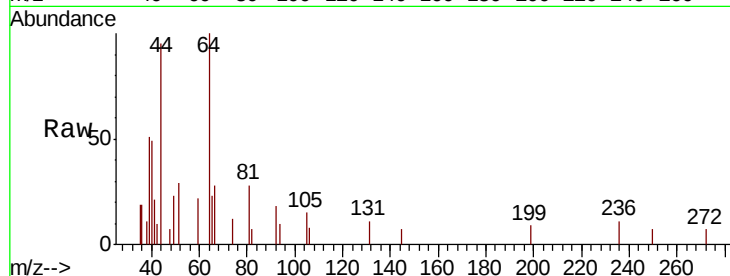
MDL-AIR-01-QT1-2021

Tot Ion: 64 Resp: 1719

Ion Ratio Lower Upper

64 100

66 28.3 25.6 38.4



#8

Dichlorotetrafluoroethane

Concen: 0.115 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.01 min

Lab File: VL036429.D

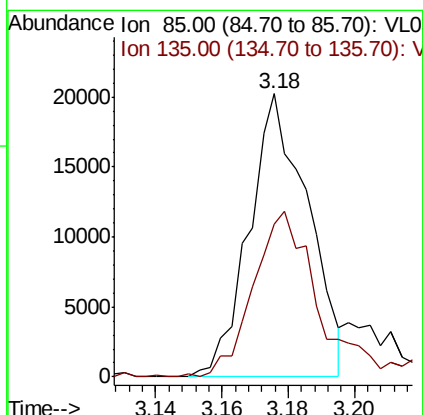
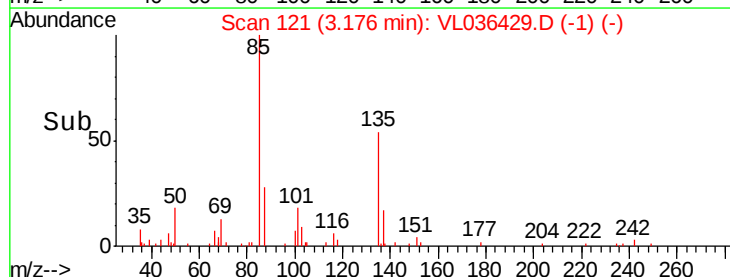
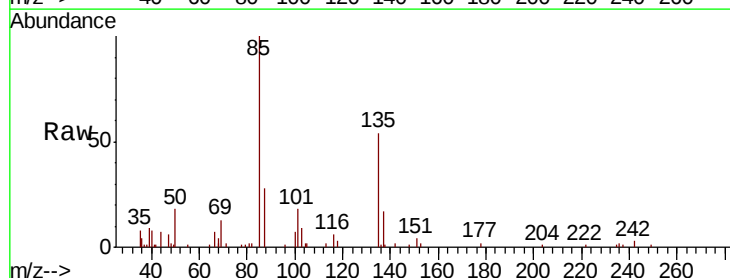
Acq: 2 Mar 2021 14:50

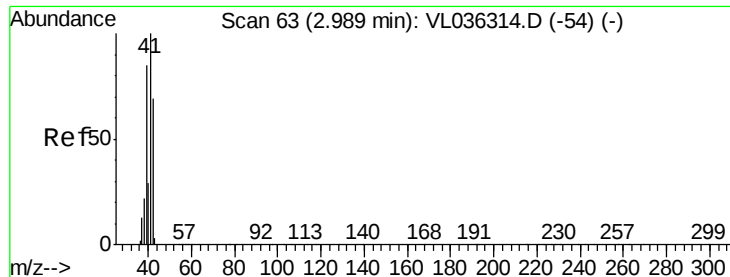
Tgt Ion: 85 Resp: 24987

Ion Ratio Lower Upper

85 100

135 68.0 51.1 76.7





#9

Propene

Concen: 0.181 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.02 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

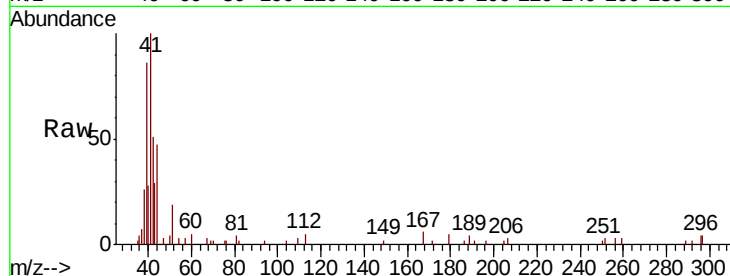
MDL-AIR-01-QT1-2021

Tot Ion: 41 Resp: 13368

Ion Ratio Lower Upper

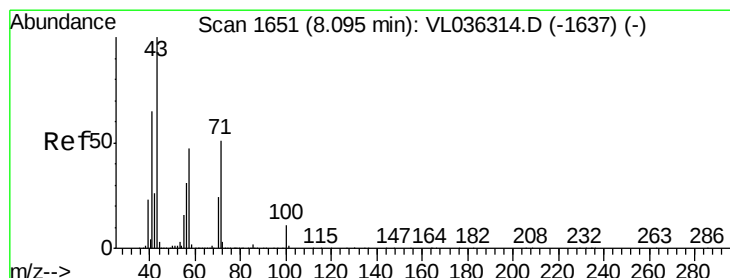
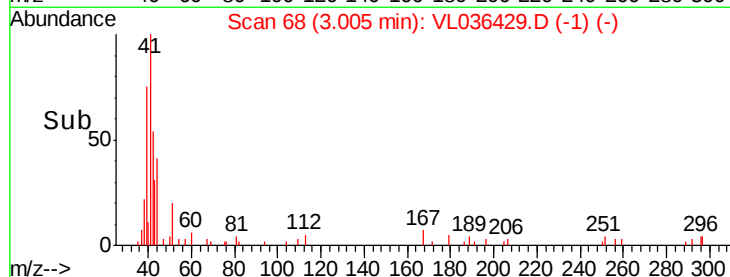
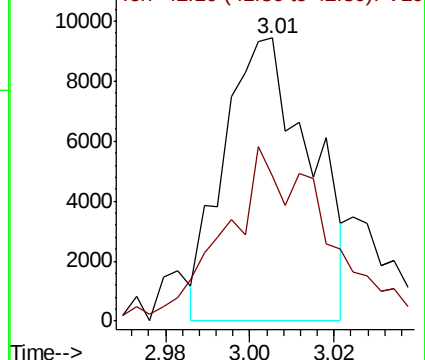
41 100

42 83.2 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.046 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. 0.02 min

Lab File: VL036429.D

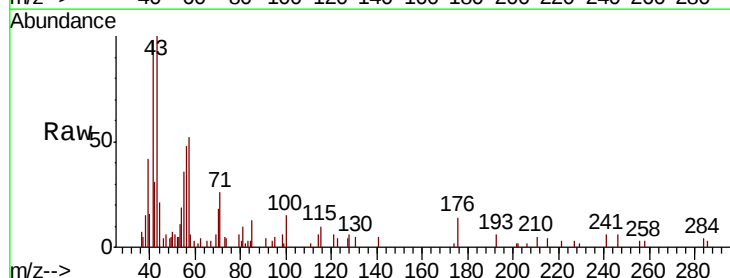
Acq: 2 Mar 2021 14:50

Tgt Ion: 43 Resp: 10077

Ion Ratio Lower Upper

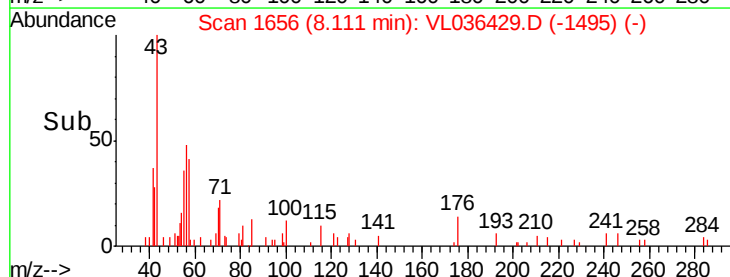
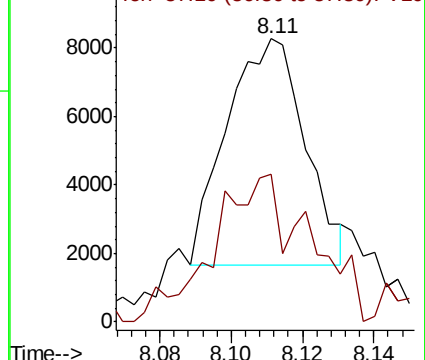
43 100

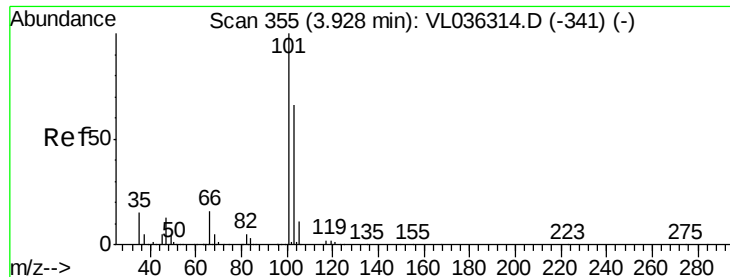
57 94.0 39.4 59.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

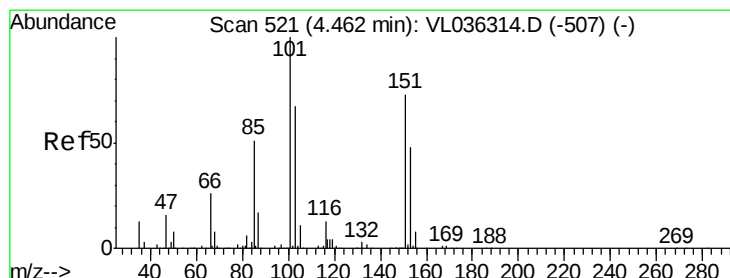
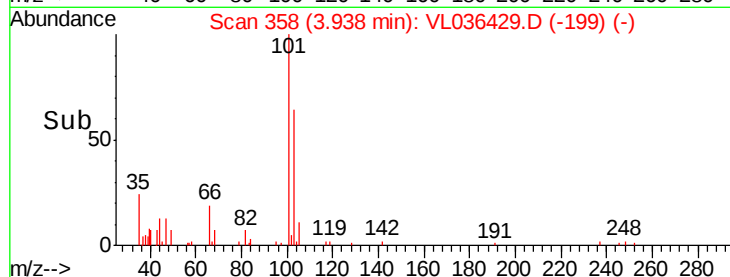
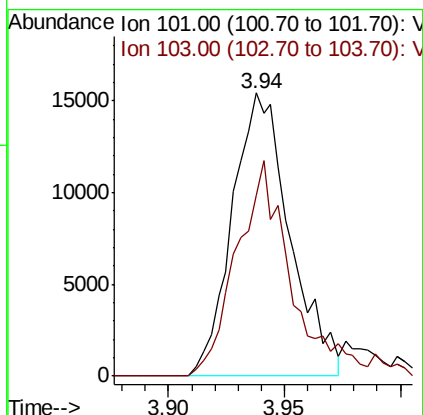
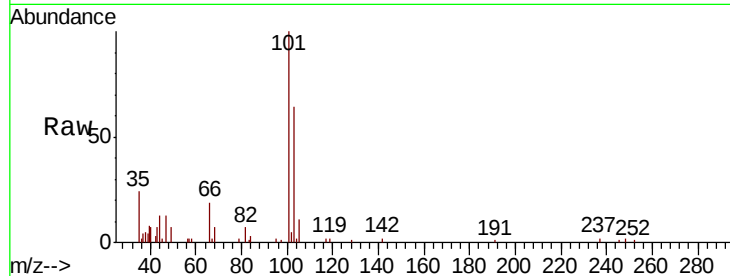




#11
 Trichlorofluoromethane
 Concen: 0.114 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.01 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

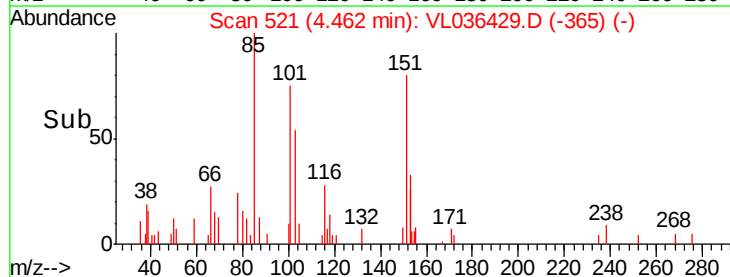
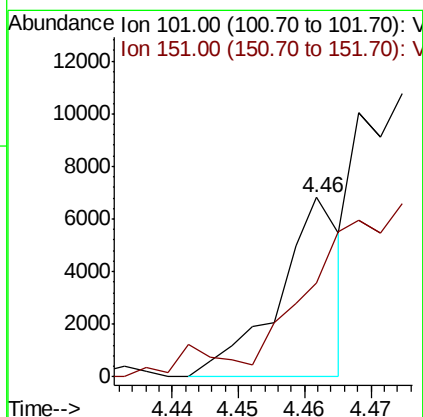
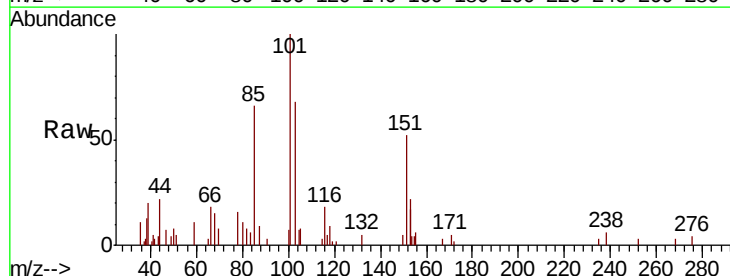
Instrument :
 MSVOA_L
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 MDL-AIR-01-QT1-2021

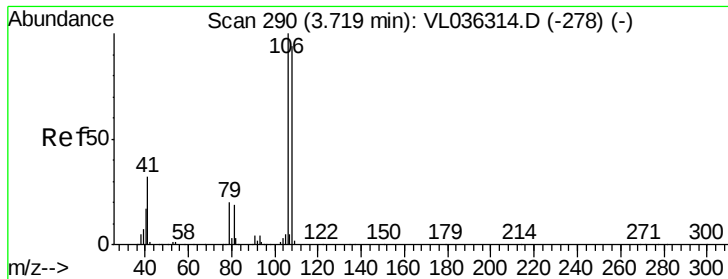
Tot Ion:101 Resp: 26735
 Ion Ratio Lower Upper
 101 100
 103 65.2 52.9 79.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.031 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

Tgt Ion:101 Resp: 4440
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.2 87.4#





#14

Bromoethene

Concen: 0.066 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

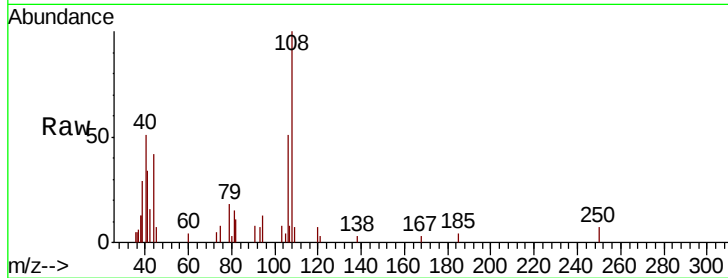
Tot Ion:108 Resp: 4016

Ion Ratio Lower Upper

108 100

106 171.9 89.8 134.8#

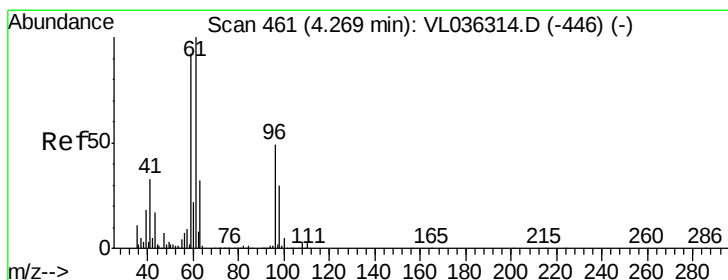
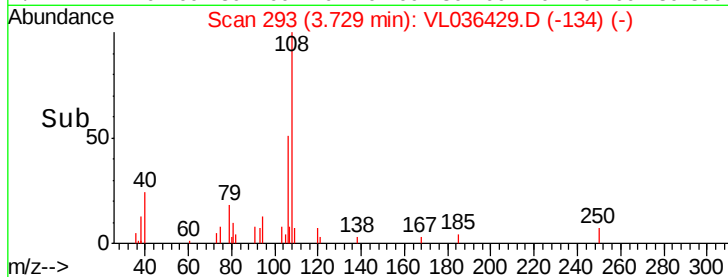
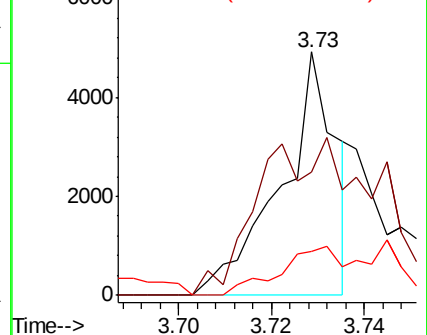
79 20.2 17.1 25.7



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): VLO



#18

1,1-Dichloroethene

Concen: 0.061 ppbv

RT: 4.28 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

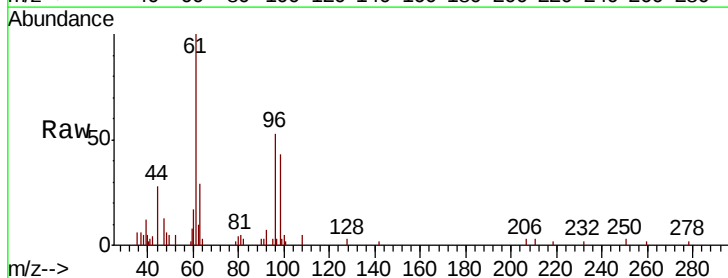
Tgt Ion: 96 Resp: 3982

Ion Ratio Lower Upper

96 100

61 164.1 162.5 243.7

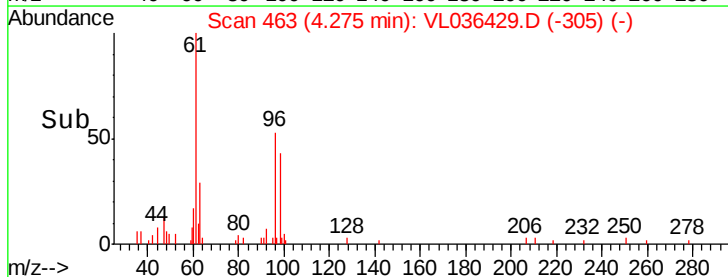
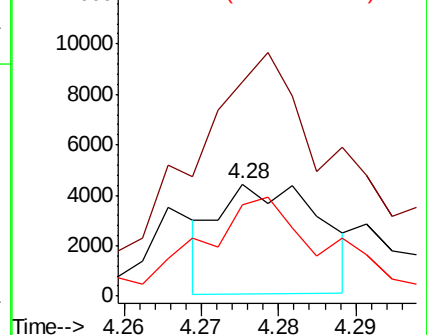
98 67.3 48.5 72.7

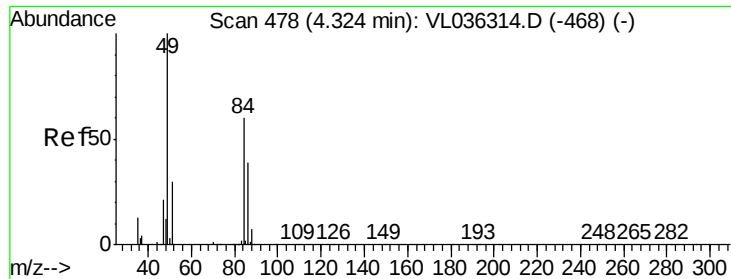


Abundance Ion 96.00 (95.70 to 96.70): VLO

Ion 61.10 (60.80 to 61.80): VLO

Ion 98.00 (97.70 to 98.70): VLO

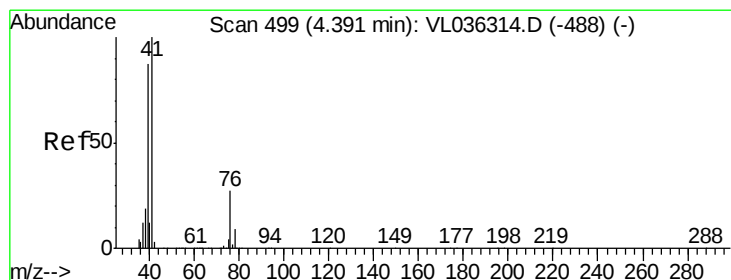
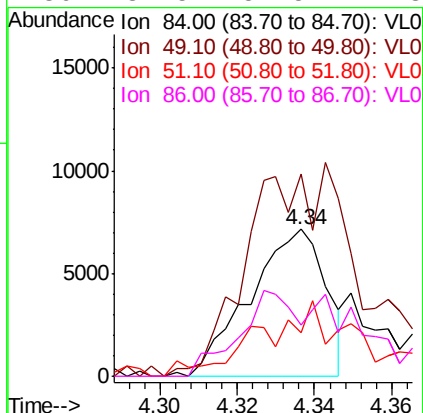
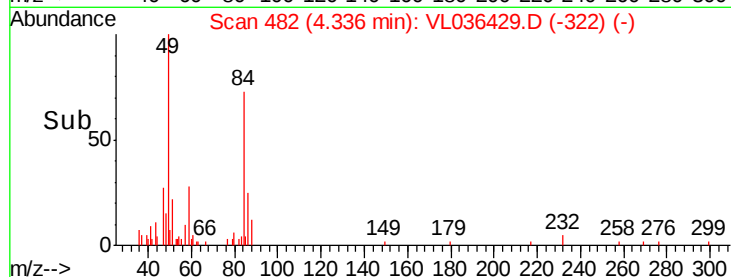
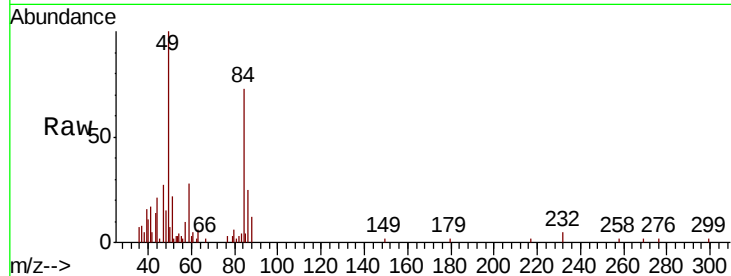




#20
Methylene Chloride
Concen: 0.155 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL036429.D
Acq: 2 Mar 2021 14:50

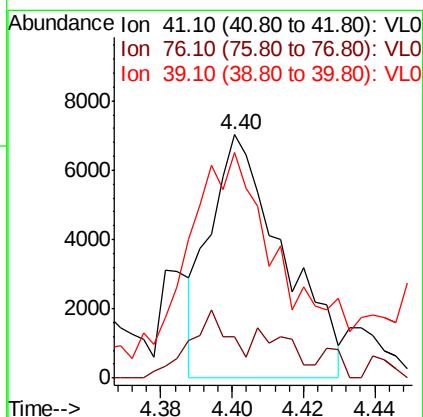
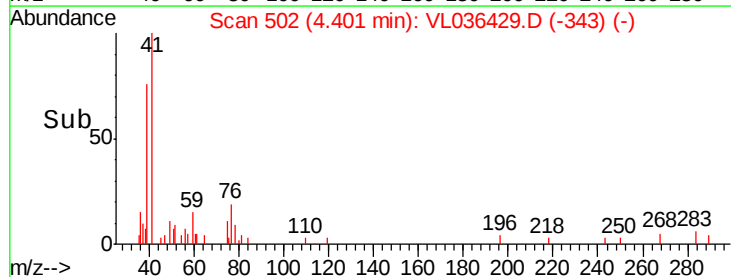
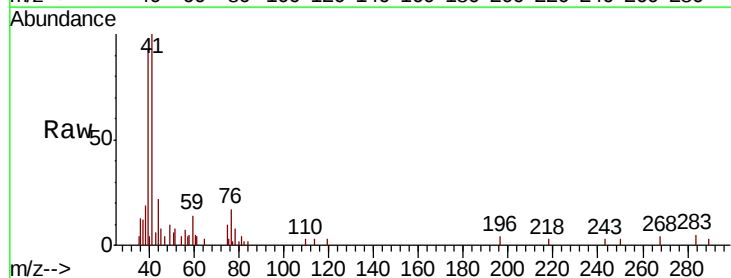
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2021

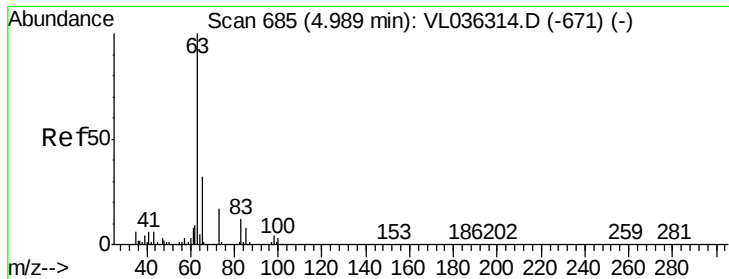
Tot Ion: 84 Resp: 9786
Ion Ratio Lower Upper
84 100
49 132.3 133.8 200.8#
51 27.0 41.4 62.0#
86 34.5 51.5 77.3#



#21
Allyl Chloride
Concen: 0.091 ppbv
RT: 4.40 min Scan# 502
Delta R.T. 0.01 min
Lab File: VL036429.D
Acq: 2 Mar 2021 14:50

Tgt Ion: 41 Resp: 9951
Ion Ratio Lower Upper
41 100
76 33.0 22.0 33.0#
39 105.8 70.2 105.2#





#24

1,1-Dichloroethane

Concen: 0.071 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

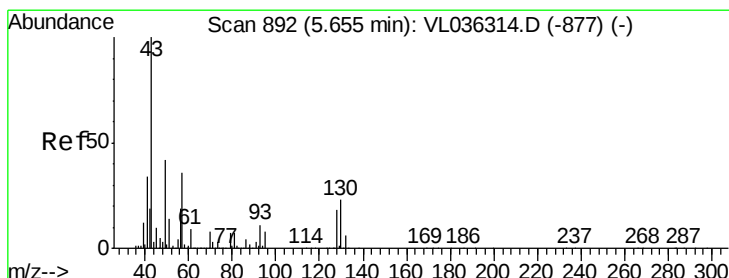
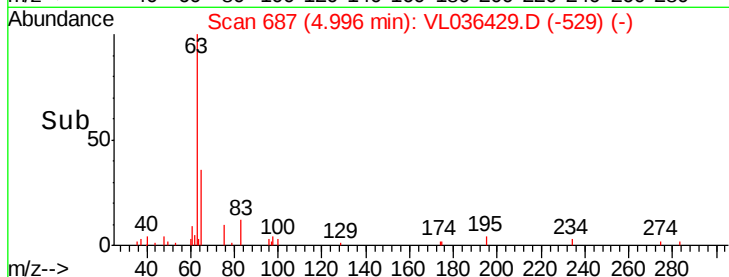
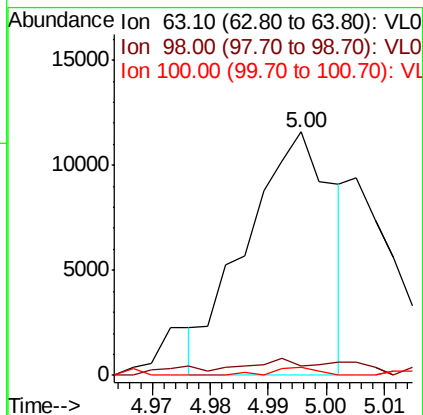
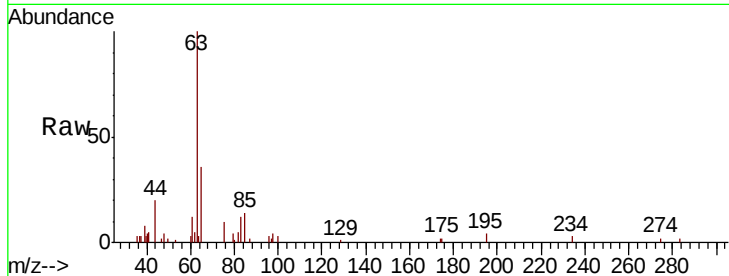
Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

Tot Ion:	63	Resp:	12000
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	6.0#
100	3.8	1.5	4.4



#25

Ethyl Acetate

Concen: 0.052 ppbv

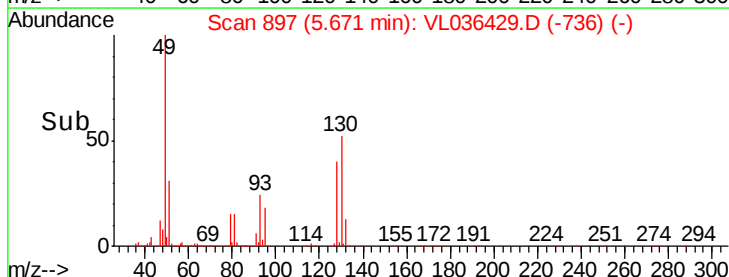
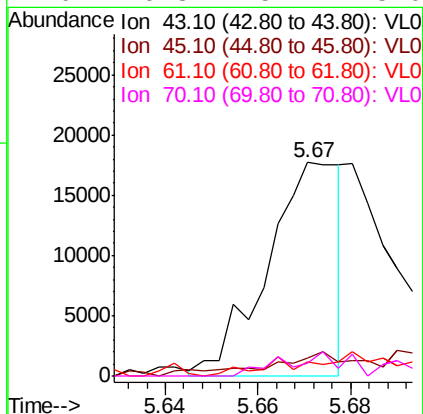
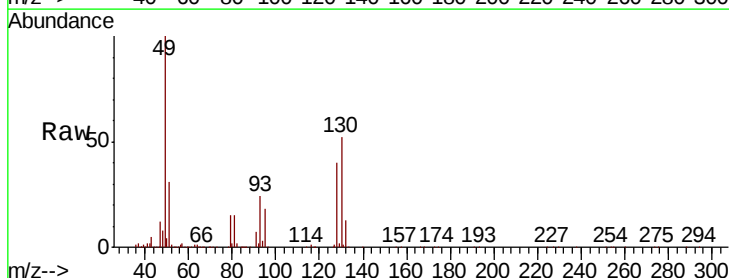
RT: 5.67 min Scan# 897

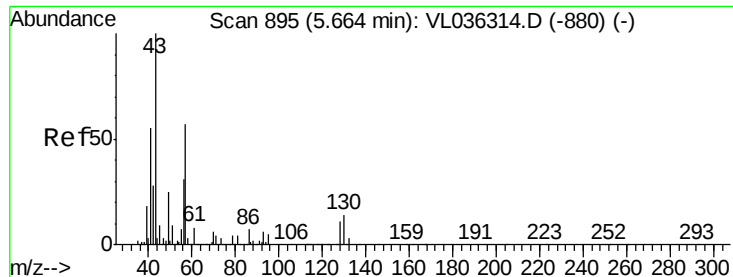
Delta R.T. 0.02 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Tgt Ion:	43	Resp:	19447
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.3	12.5#
61	0.0	7.3	10.9#
70	16.3	5.4	8.0#

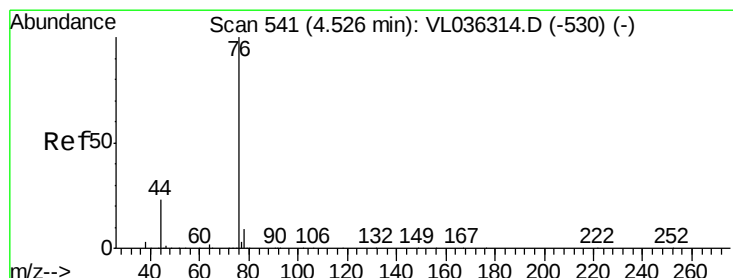
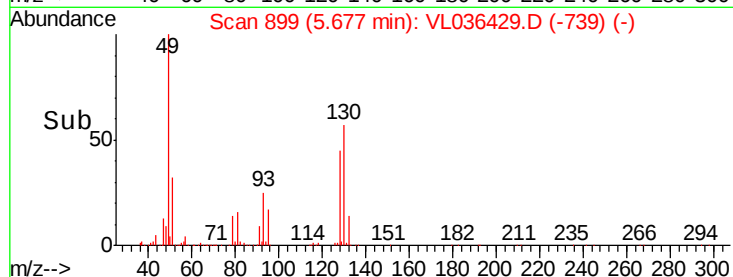
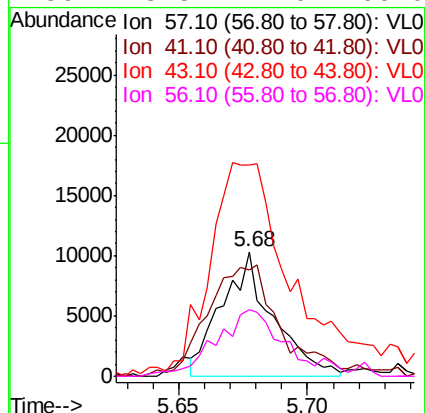
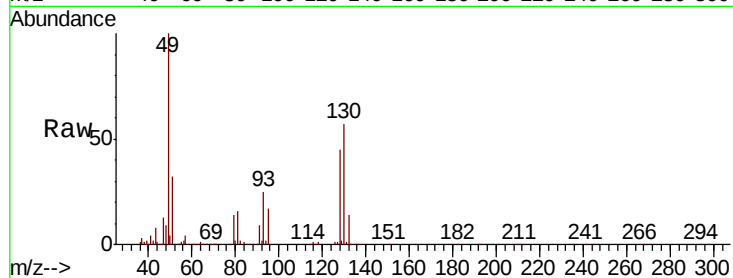




#26
Hexane
Concen: 0.092 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL036429.D
Acq: 2 Mar 2021 14:50

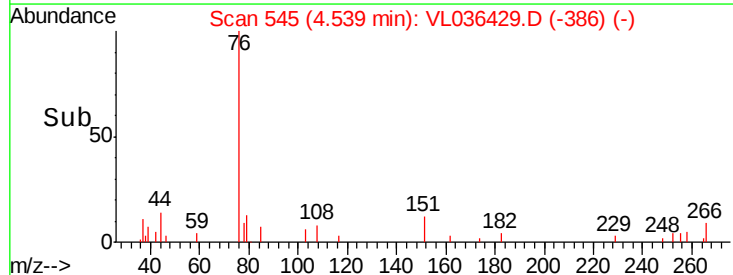
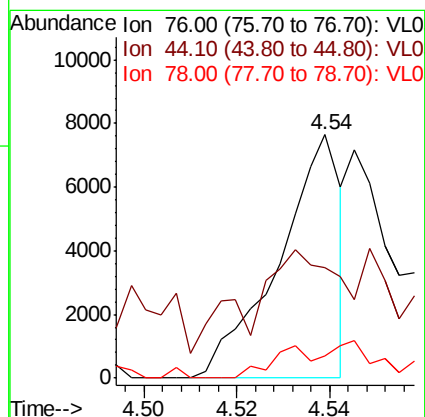
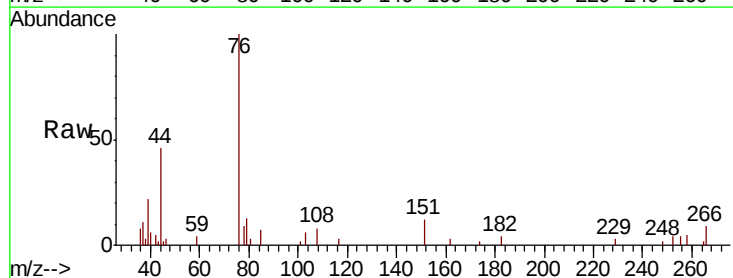
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2021

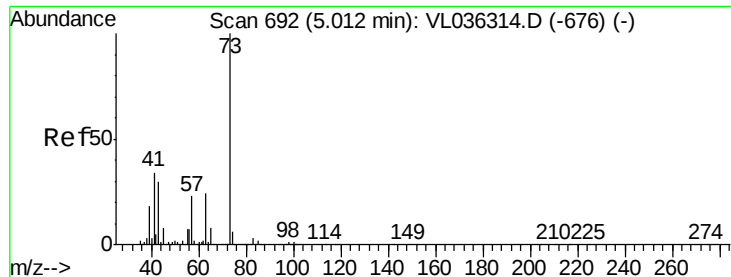
Tot Ion: 57 Resp: 14252
Ion Ratio Lower Upper
57 100
41 131.1 81.7 122.5#
43 287.3 199.1 298.7
56 75.5 44.0 66.0#



#27
Carbon Disulfide
Concen: 0.050 ppbv
RT: 4.54 min Scan# 545
Delta R.T. 0.01 min
Lab File: VL036429.D
Acq: 2 Mar 2021 14:50

Tgt Ion: 76 Resp: 7110
Ion Ratio Lower Upper
76 100
44 0.0 18.4 27.6#
78 0.0 8.0 12.0#



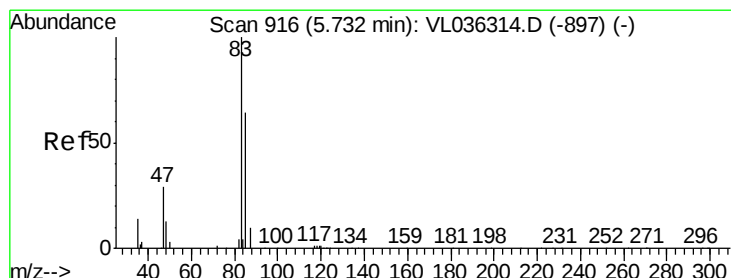
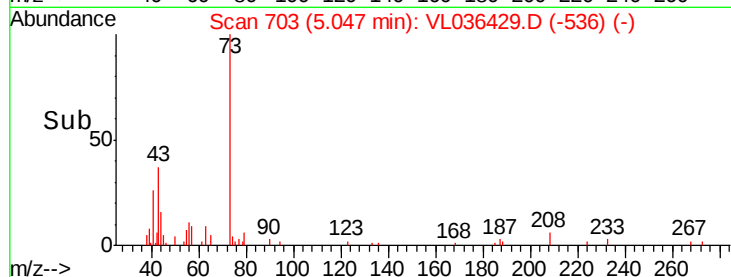
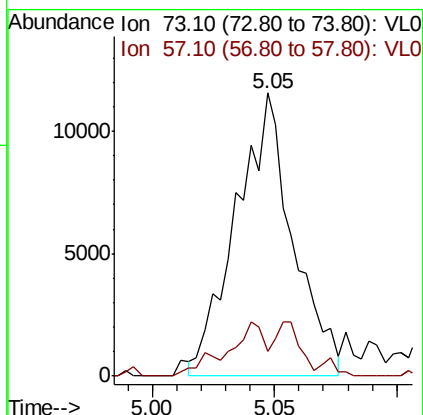
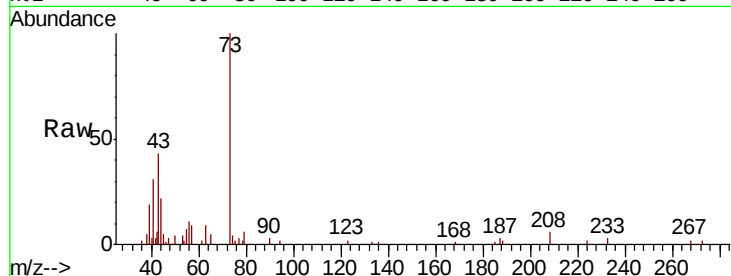


#28

Methvl tert-Butvl Ether
 Concen: 0.092 ppbv
 RT: 5.05 min Scan# 703
 Delta R.T. 0.04 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2021

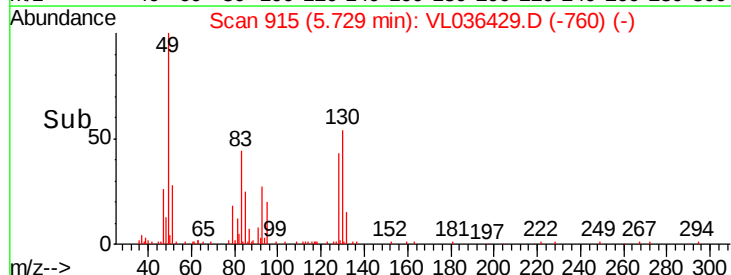
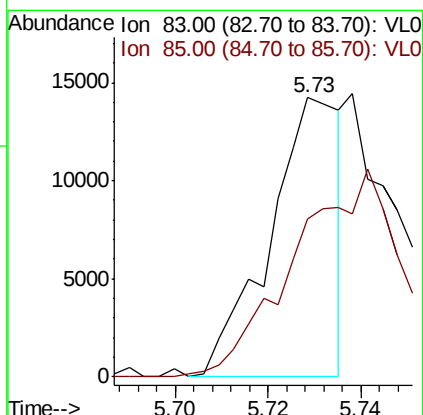
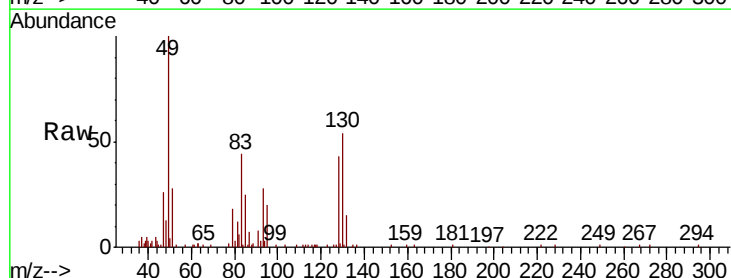
Tot Ion: 73 Resp: 18683
 Ion Ratio Lower Upper
 73 100
 57 22.6 19.2 28.8

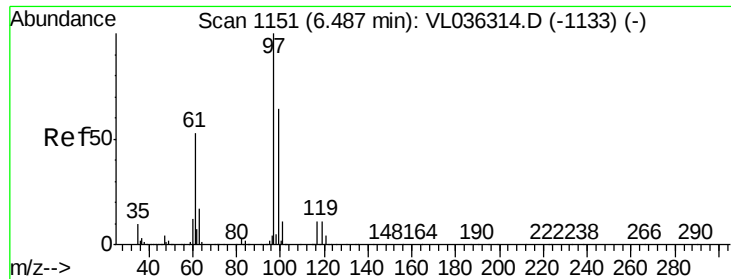


#29

Chloroform
 Concen: 0.060 ppbv
 RT: 5.73 min Scan# 915
 Delta R.T. -0.00 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

Tgt Ion: 83 Resp: 14976
 Ion Ratio Lower Upper
 83 100
 85 55.1 51.4 77.2

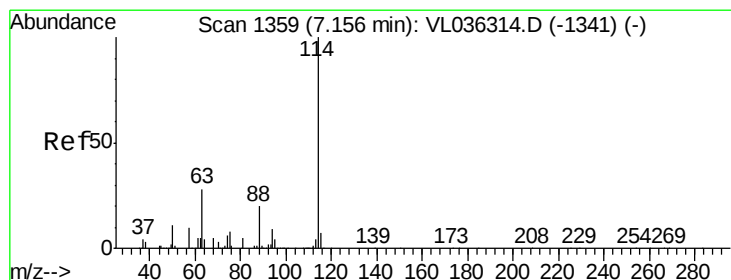
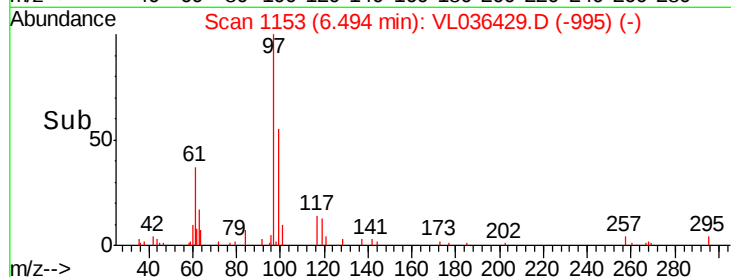
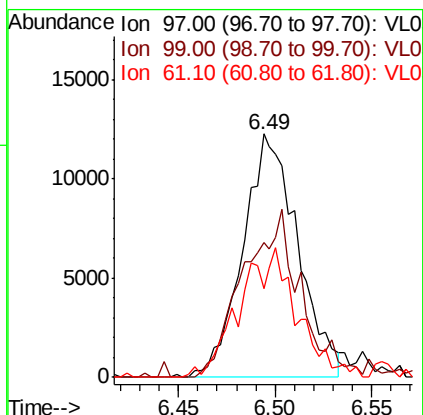
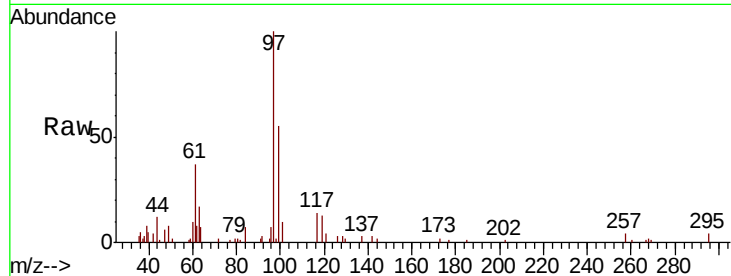




#32
 1,1,1-Trichloroethane
 Concen: 0.104 ppbv
 RT: 6.49 min Scan# 1153
 Delta R.T. 0.01 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

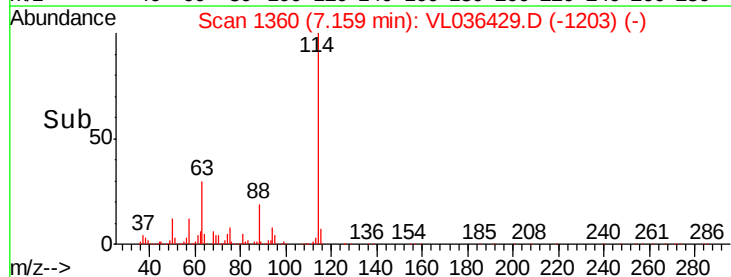
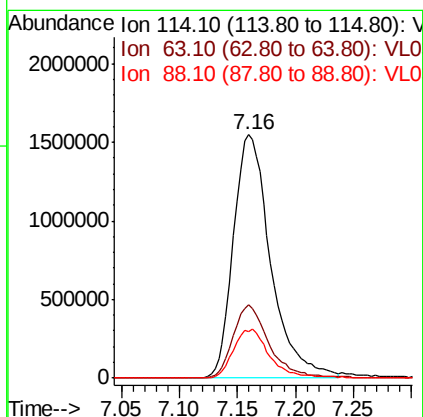
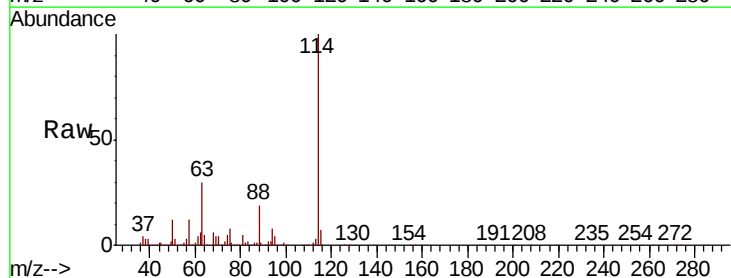
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2021

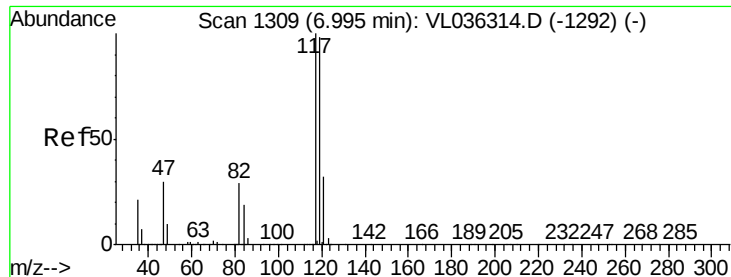
Tot Ion: 97 Resp: 24280
 Ion Ratio Lower Upper
 97 100
 99 71.6 52.2 78.4
 61 55.7 43.3 64.9



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

Tgt Ion: 114 Resp: 3450098
 Ion Ratio Lower Upper
 114 100
 63 29.5 24.1 36.1
 88 19.7 16.0 24.0





#35

Carbon Tetrachloride

Concen: 0.043 ppbv

RT: 7.00 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

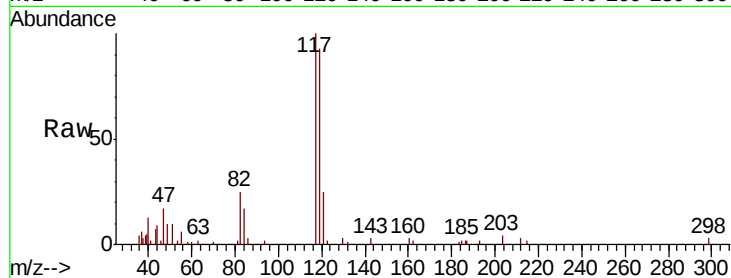
Tot Ion:117 Resp: 9863

Ion Ratio Lower Upper

117 100

119 93.7 78.1 117.1

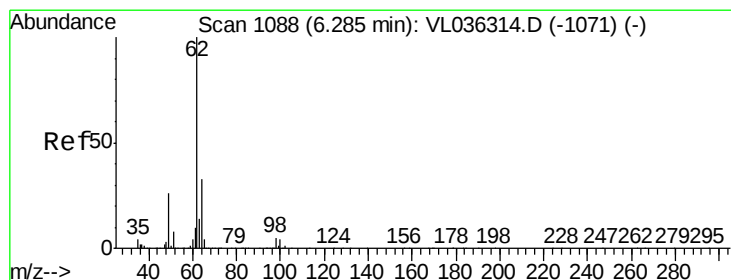
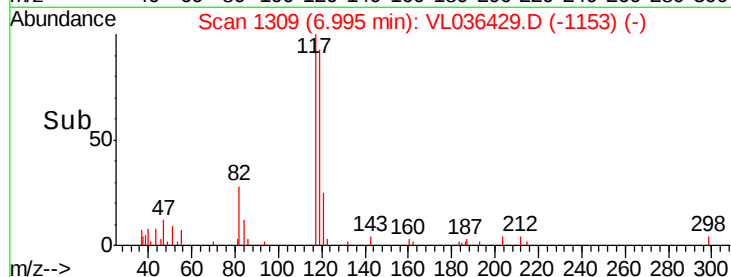
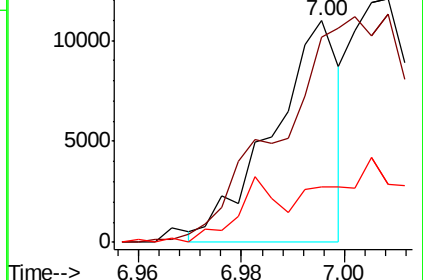
121 26.3 25.8 38.8



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



#37

1,2-Dichloroethane

Concen: 0.050 ppbv

RT: 6.29 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VL036429.D

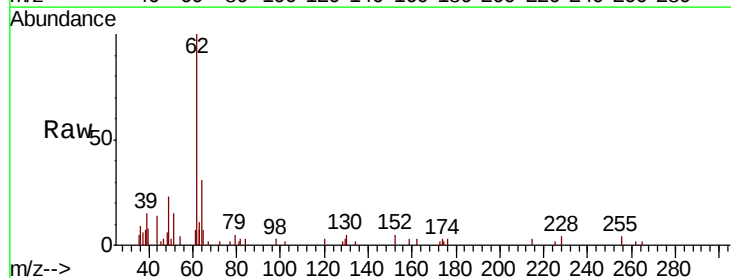
Acq: 2 Mar 2021 14:50

Tgt Ion: 62 Resp: 9062

Ion Ratio Lower Upper

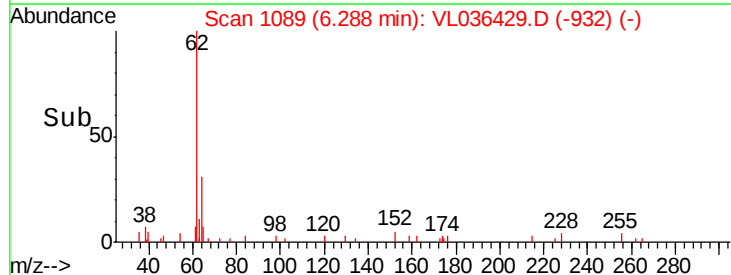
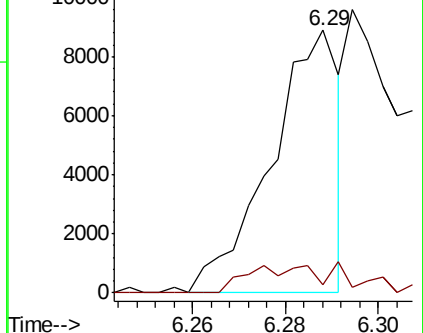
62 100

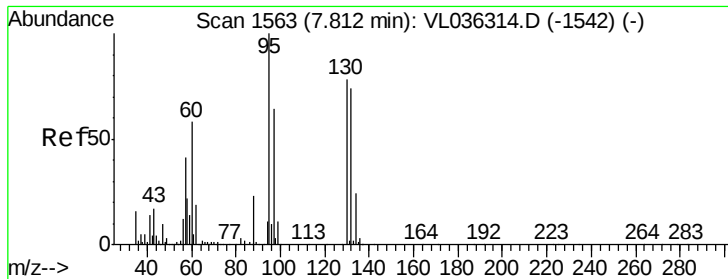
98 0.0 4.5 6.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.099 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

Tot Ion:130 Resp: 10378

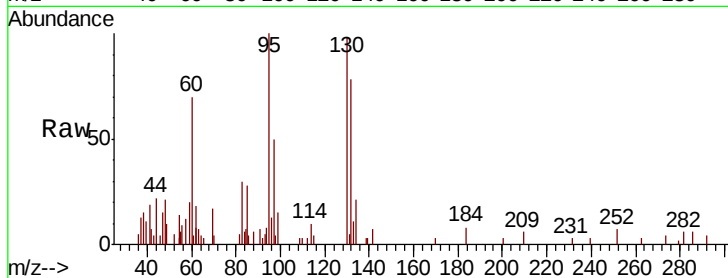
Ion Ratio Lower Upper

130 100

95 99.2 102.8 154.2#

132 81.4 75.7 113.5

97 52.3 66.2 99.2#

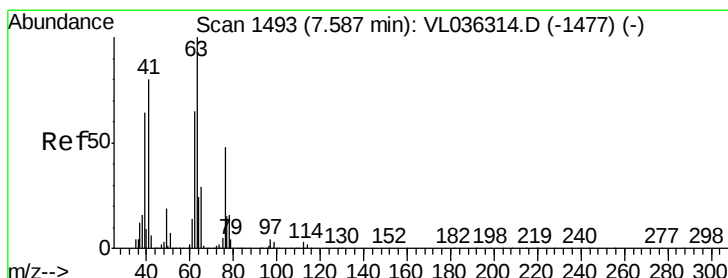
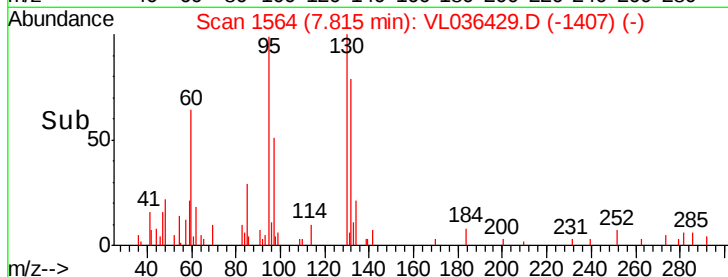
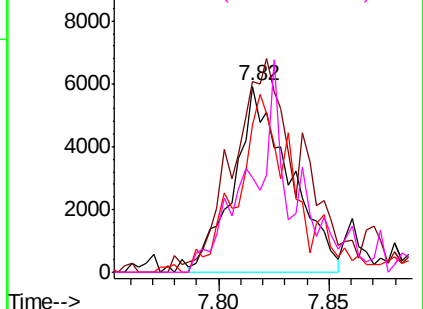


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.458 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.43 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

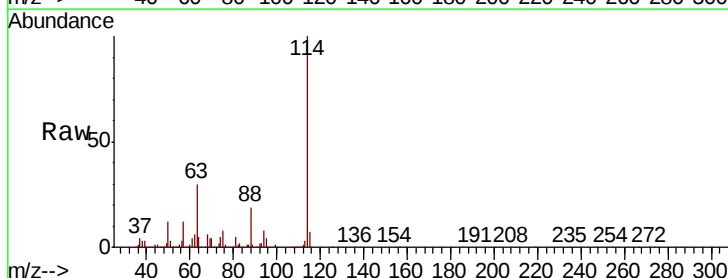
Tgt Ion: 63 Resp: 1006901

Ion Ratio Lower Upper

63 100

41 0.0 63.8 95.6#

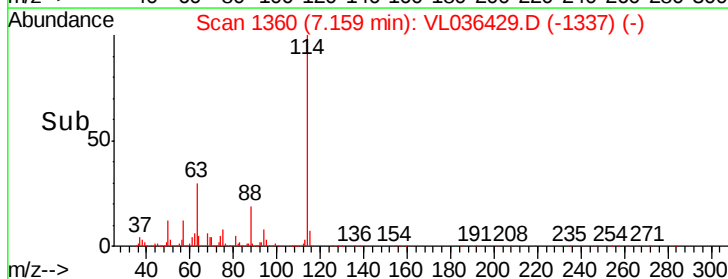
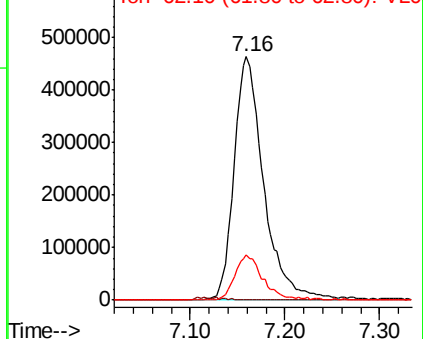
62 18.6 52.3 78.5#

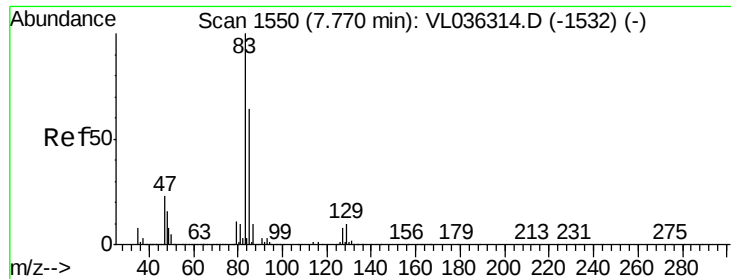


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.095 ppbv

RT: 7.77 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

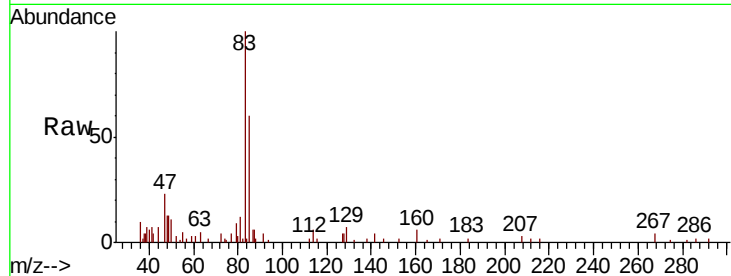
Tot Ion: 83 Resp: 23049

Ion Ratio Lower Upper

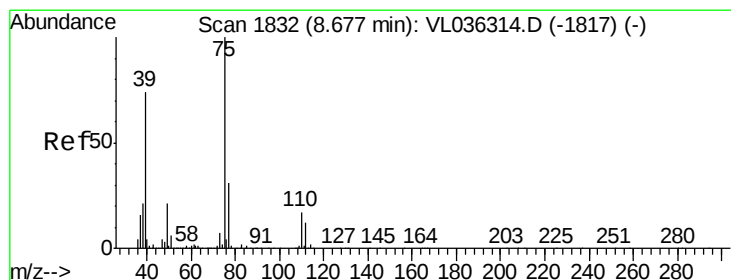
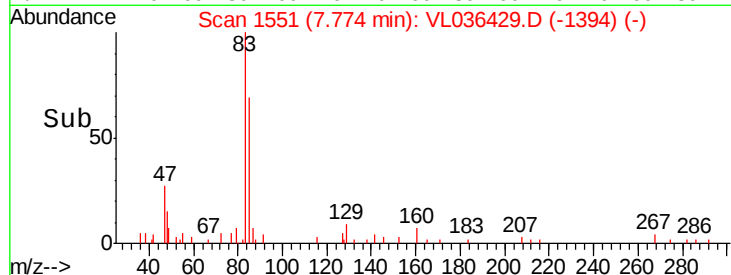
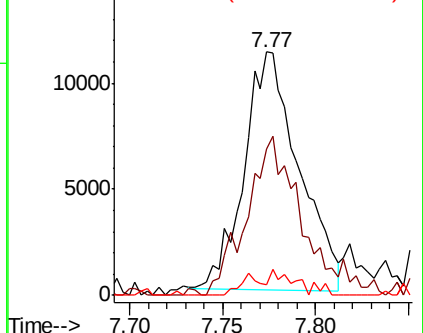
83 100

85 59.4 51.1 76.7

127 4.4 6.3 9.5#



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



#46

cis-1,3-Dichloropropene

Concen: 0.039 ppbv

RT: 8.69 min Scan# 1836

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

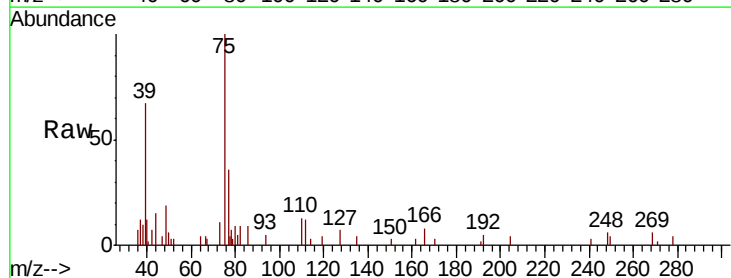
Tgt Ion: 75 Resp: 5936

Ion Ratio Lower Upper

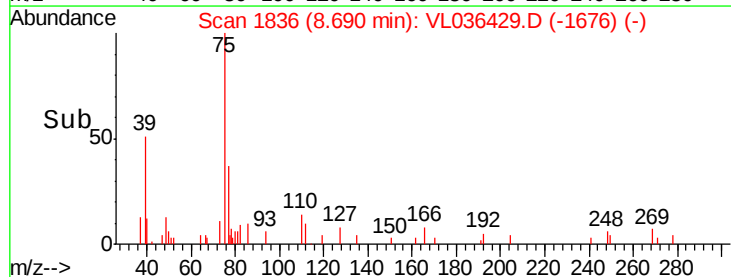
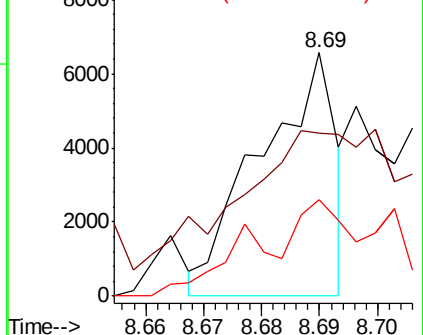
75 100

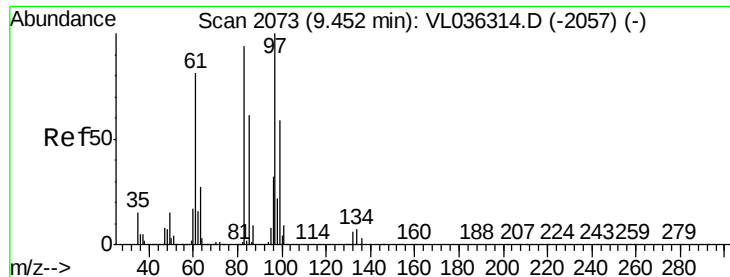
39 38.2 59.2 88.8#

77 38.0 25.0 37.6#



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: 0.036 ppbv

RT: 9.46 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

Tot Ion: 97 Resp: 4378

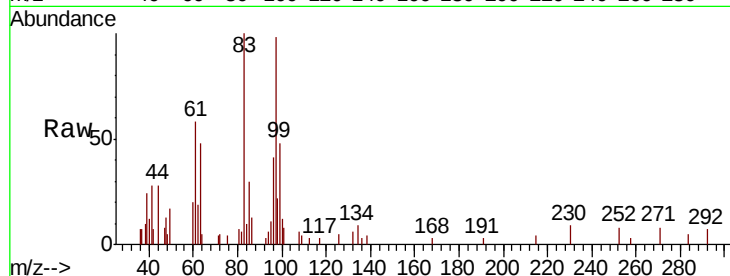
Ion Ratio Lower Upper

97 100

83 49.6 75.4 113.0#

85 0.0 48.9 73.3#

99 24.7 46.9 70.3#

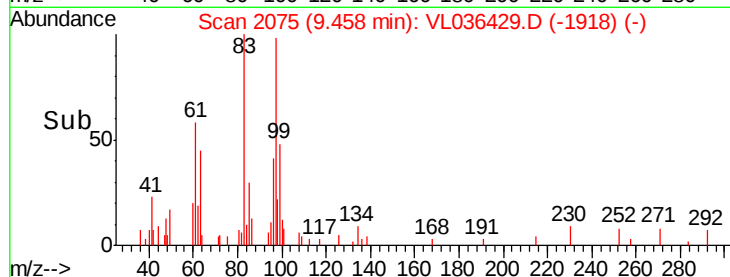


Abundance Ion 97.00 (96.70 to 97.70): VL0

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



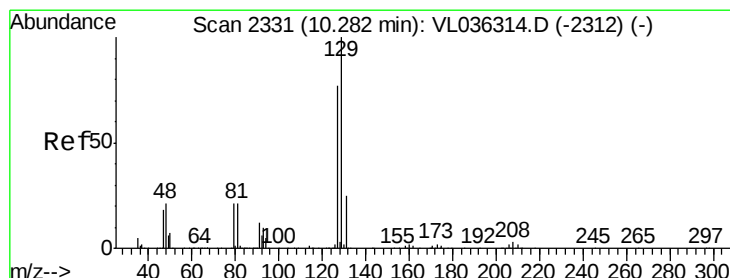
Abundance Ion 97.00 (96.70 to 97.70): VL0

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

Time-->



#48

Dibromochloromethane

Concen: 0.073 ppbv

RT: 10.29 min Scan# 2335

Delta R.T. 0.01 min

Lab File: VL036429.D

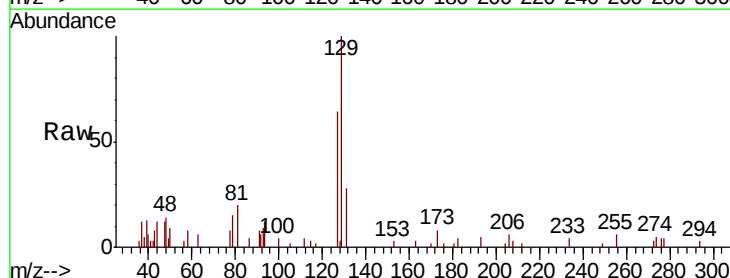
Acq: 2 Mar 2021 14:50

Tgt Ion: 129 Resp: 13290

Ion Ratio Lower Upper

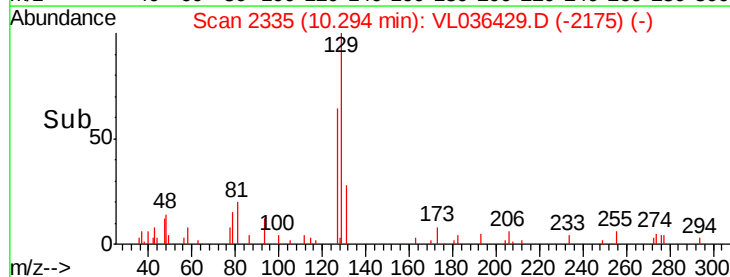
129 100

127 97.1 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V

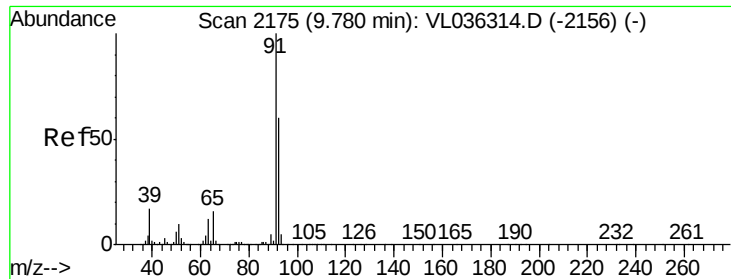
Ion 127.00 (126.70 to 127.70): V



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

Time-->



#53

Toluene

Concen: 0.039 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

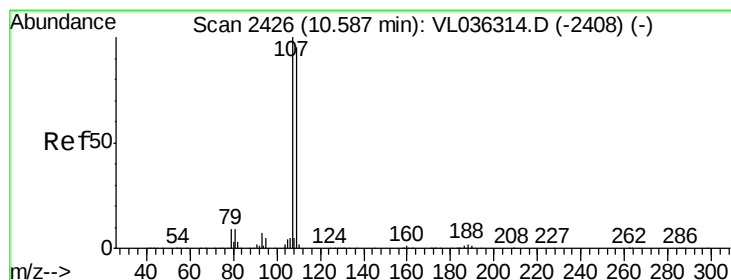
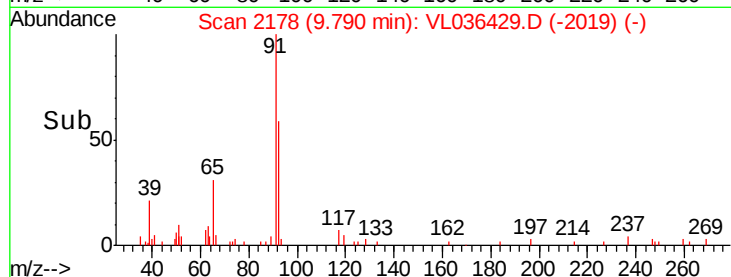
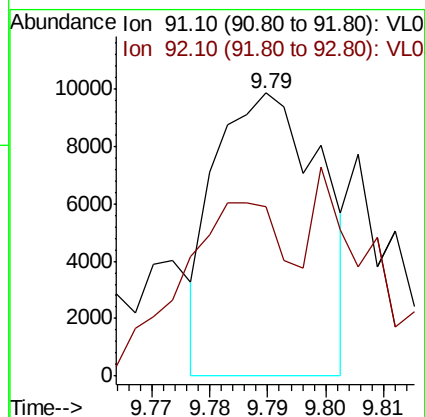
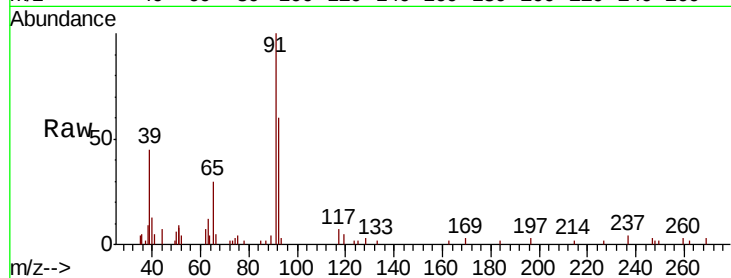
MDL-AIR-01-QT1-2021

Tot Ion: 91 Resp: 12517

Ion Ratio Lower Upper

91 100

92 0.0 48.6 72.8#



#54

1,2-Dibromoethane

Concen: 0.069 ppbv

RT: 10.59 min Scan# 2428

Delta R.T. 0.01 min

Lab File: VL036429.D

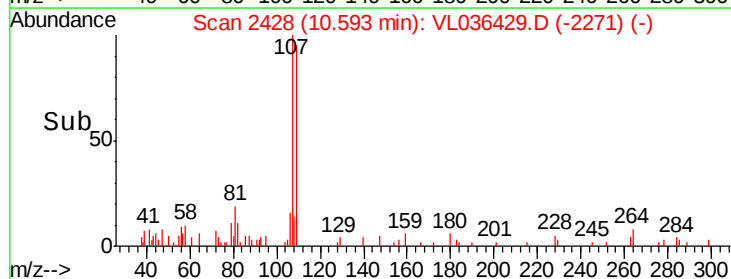
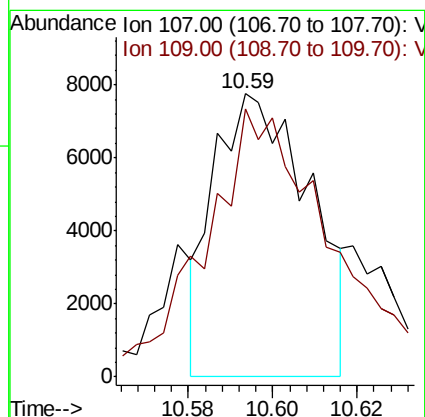
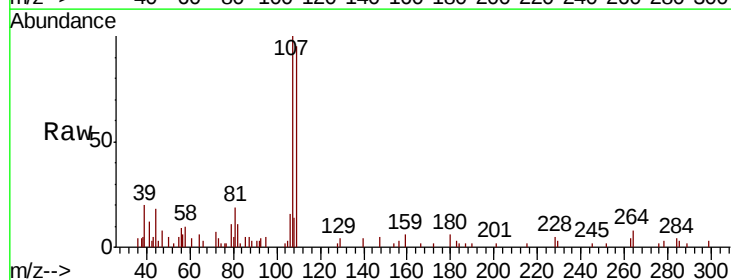
Acq: 2 Mar 2021 14:50

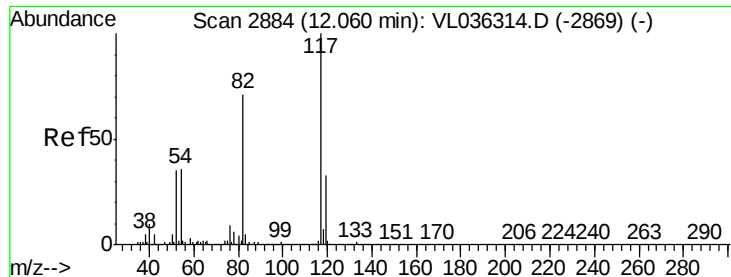
Tgt Ion: 107 Resp: 12191

Ion Ratio Lower Upper

107 100

109 88.0 76.0 114.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

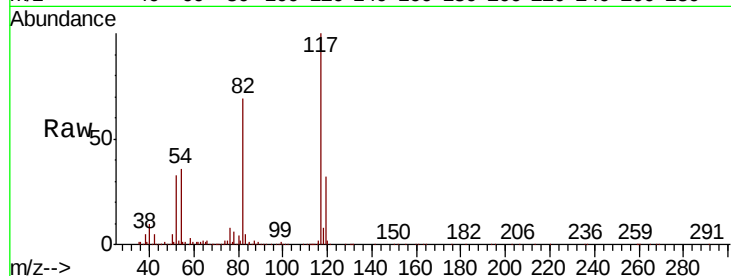
Tot Ion:117 Resp: 3090541

Ion Ratio Lower Upper

117 100

82 72.9 59.1 88.7

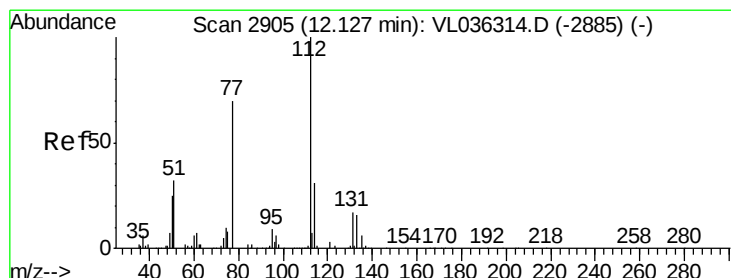
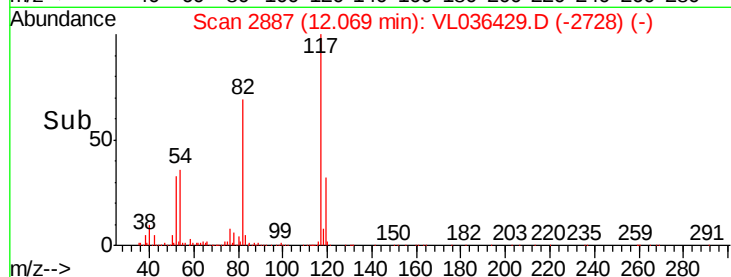
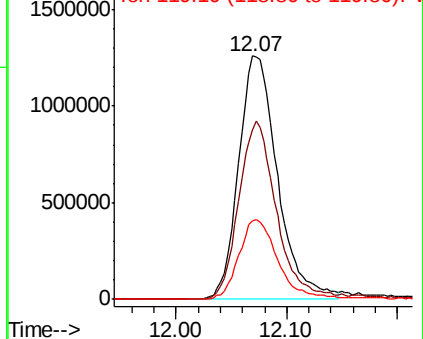
119 33.2 46.3 69.5#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#57

Chlorobenzene

Concen: 0.041 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

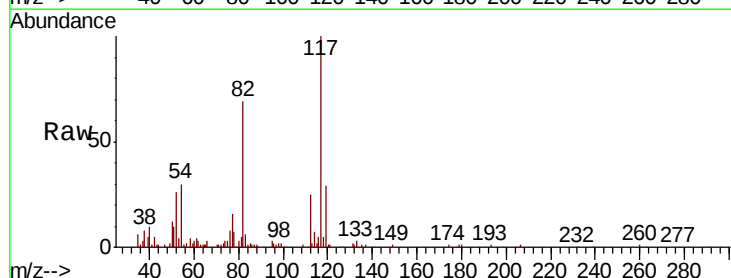
Tgt Ion:112 Resp: 9770

Ion Ratio Lower Upper

112 100

77 3.3 56.1 84.1#

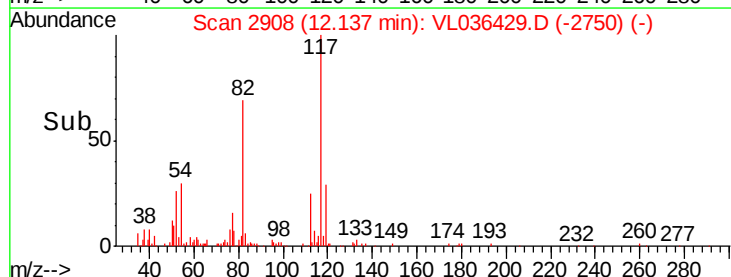
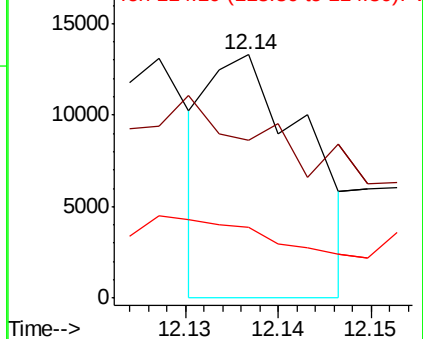
114 19.6 28.3 34.5#

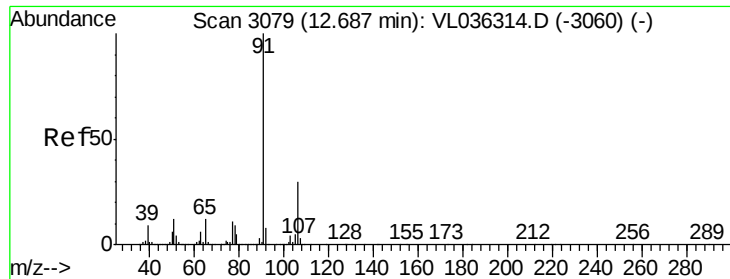


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.033 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

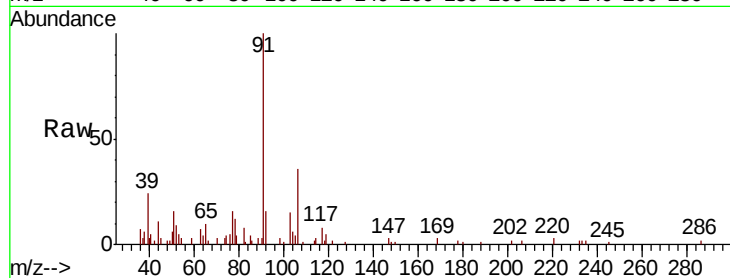
MDL-AIR-01-QT1-2021

Tot Ion: 91 Resp: 13853

Ion Ratio Lower Upper

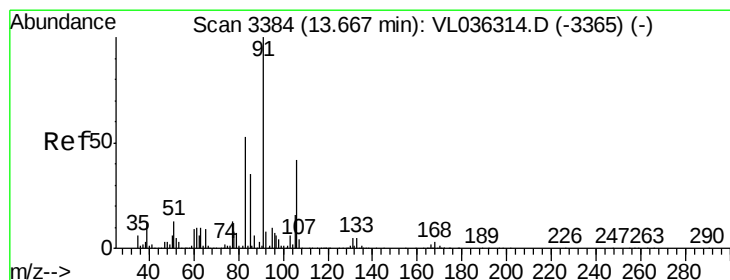
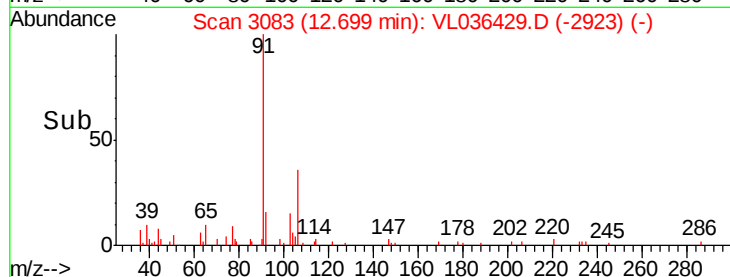
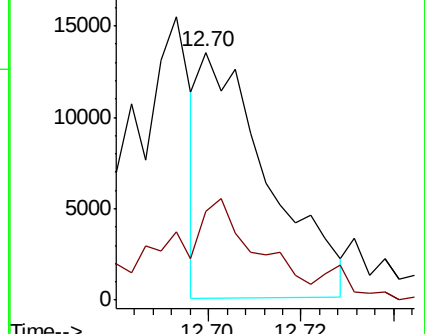
91 100

106 25.9 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.051 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. 0.01 min

Lab File: VL036429.D

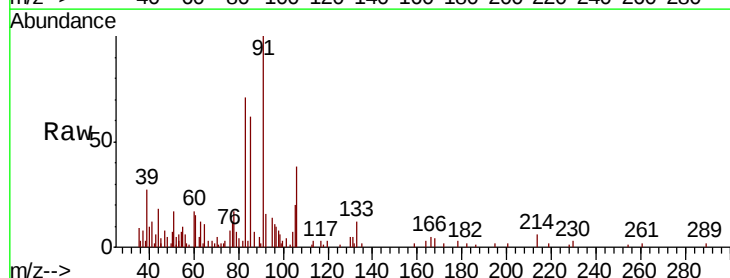
Acq: 2 Mar 2021 14:50

Tgt Ion: 91 Resp: 17980

Ion Ratio Lower Upper

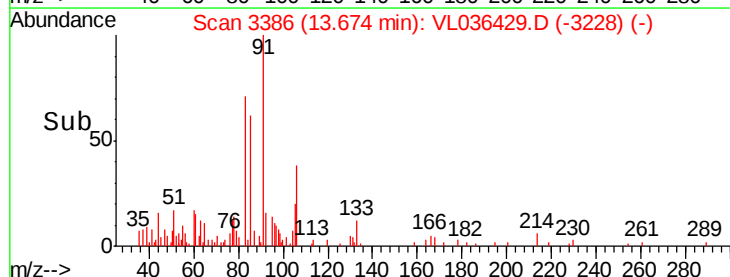
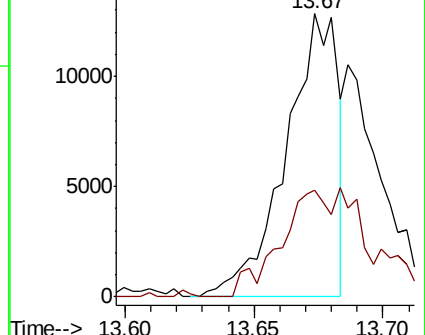
91 100

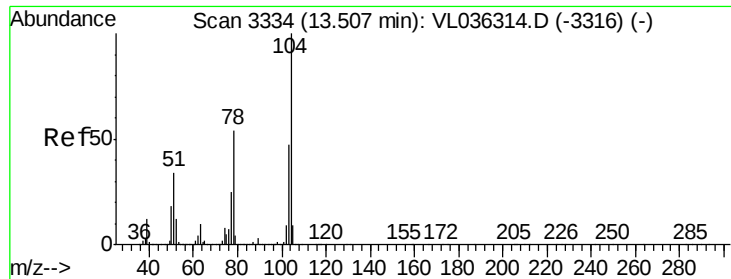
106 0.0 22.0 66.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

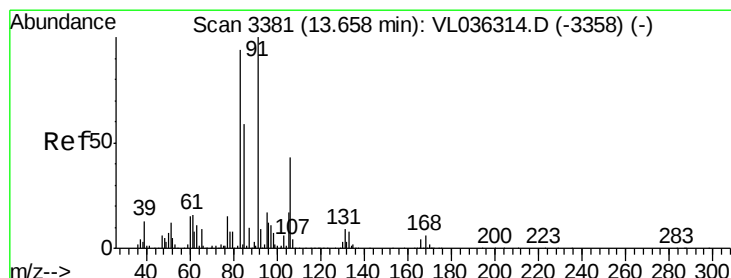
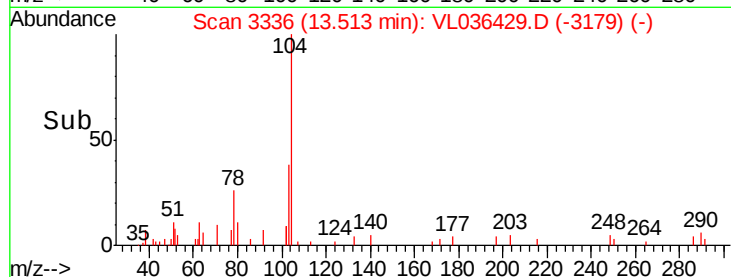
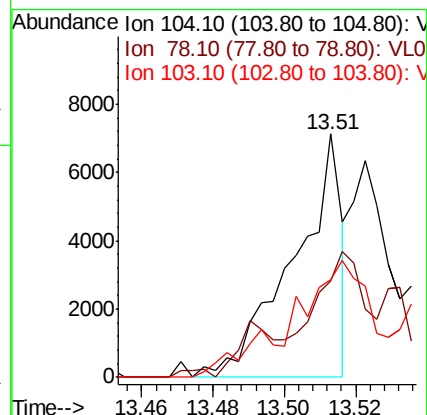
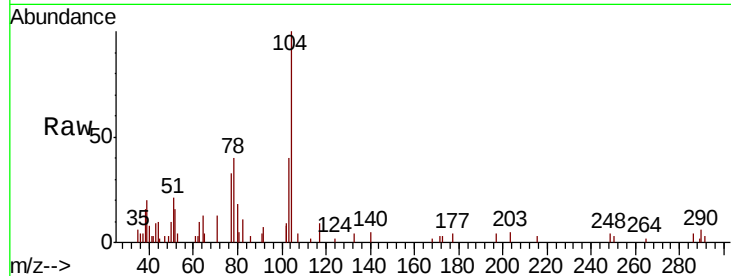




#61
Stvrene
Concen: 0.030 ppbv
RT: 13.51 min Scan# 3336
Delta R.T. 0.01 min
Lab File: VL036429.D
Acq: 2 Mar 2021 14:50

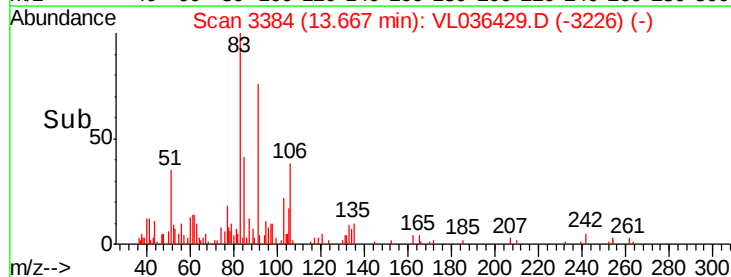
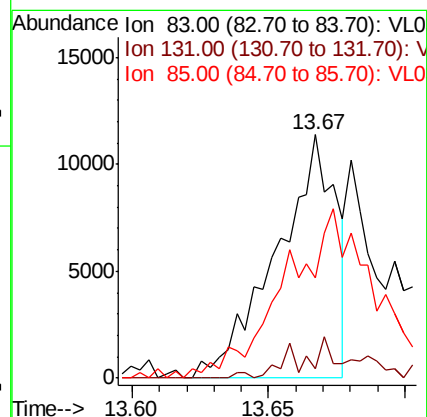
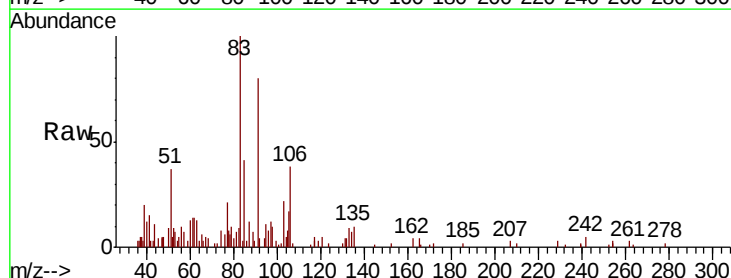
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT1-2021

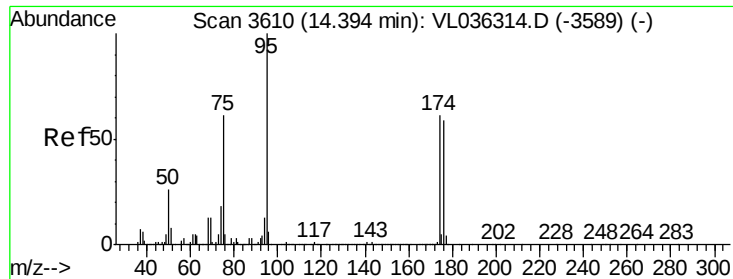
Tot Ion:104 Resp: 6641
Ion Ratio Lower Upper
104 100
78 118.1 46.2 69.2#
103 96.1 38.3 57.5#



#63
1,1,2,2-Tetrachloroethane
Concen: 0.062 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. 0.01 min
Lab File: VL036429.D
Acq: 2 Mar 2021 14:50

Tgt Ion: 83 Resp: 17267
Ion Ratio Lower Upper
83 100
131 15.5 4.7 14.0#
85 132.6 33.0 98.9#

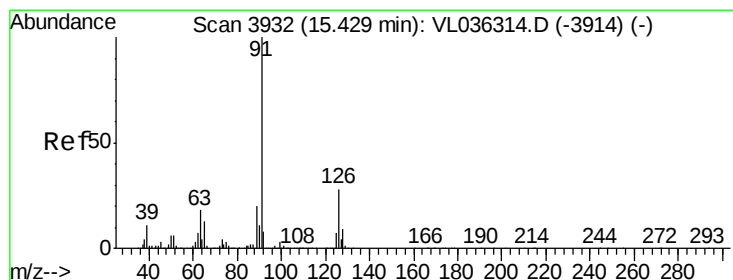
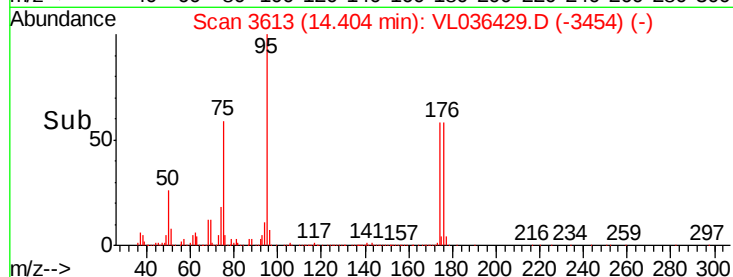
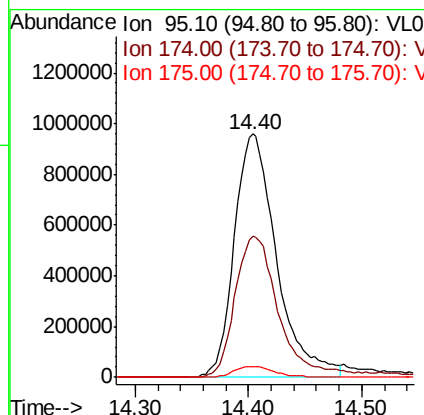
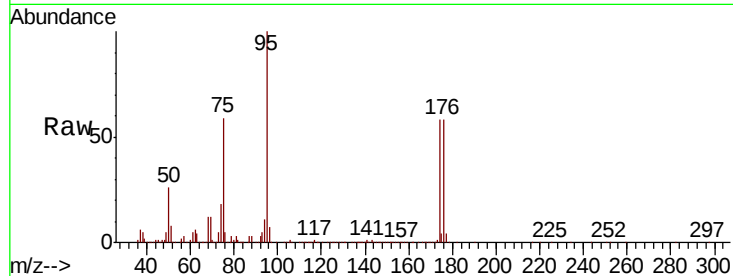




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.811 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. 0.01 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

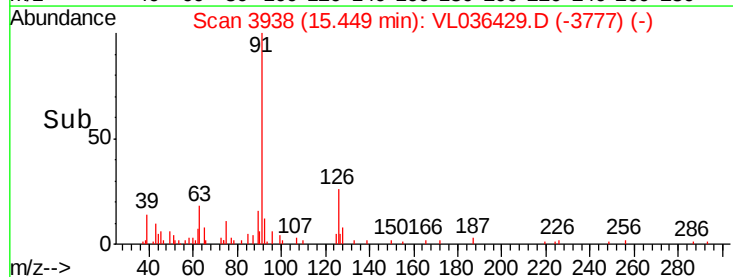
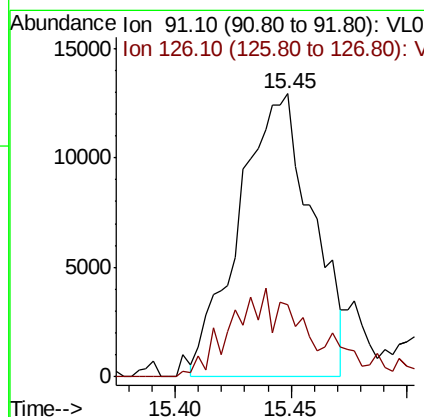
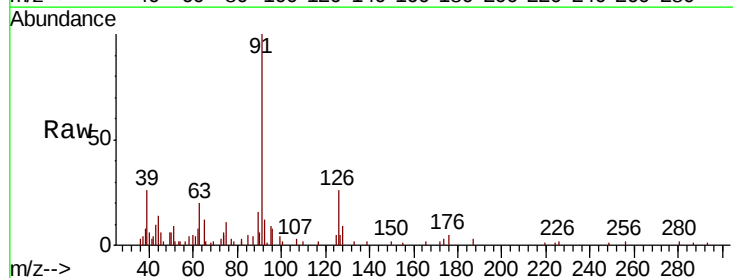
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2021

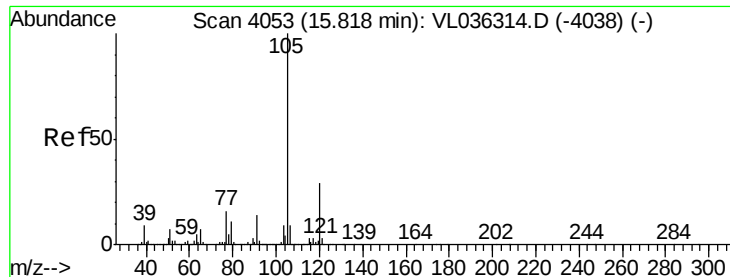
Tot Ion: 95 Resp: 2494660
 Ion Ratio Lower Upper
 95 100
 174 62.9 49.8 74.6
 175 4.6 3.7 5.5



#71
 2-Chlorotoluene
 Concen: 0.069 ppbv
 RT: 15.45 min Scan# 3938
 Delta R.T. 0.02 min
 Lab File: VL036429.D
 Acq: 2 Mar 2021 14:50

Tgt Ion: 91 Resp: 28235
 Ion Ratio Lower Upper
 91 100
 126 33.7 11.5 46.1





#72

4-Ethyltoluene

Concen: 0.034 ppbv

RT: 15.83 min Scan# 4058

Delta R.T. 0.02 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT1-2021

Tot Ion:105 Resp: 13470

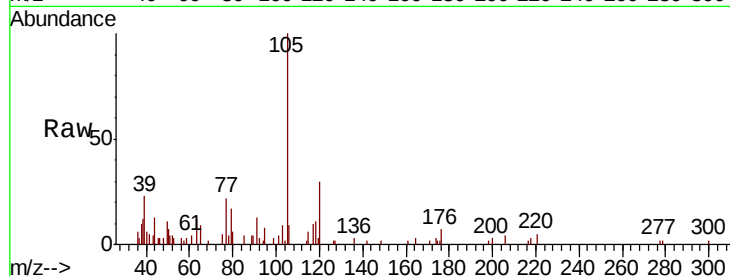
Ion Ratio Lower Upper

105 100

120 51.5 23.2 34.8#

91 0.0 11.0 16.4#

77 0.0 12.2 18.4#

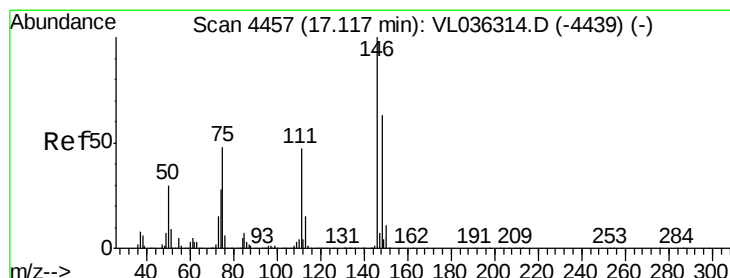
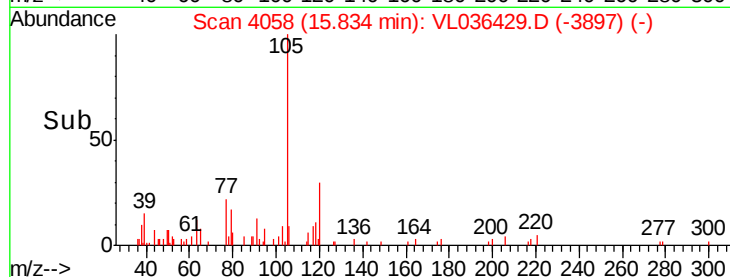
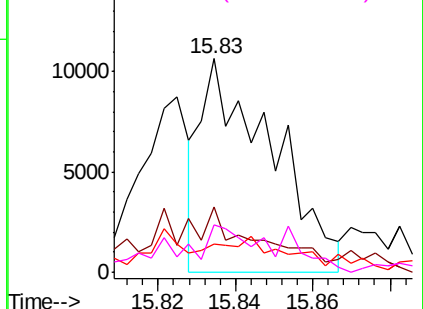


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO



#76

1,4-Dichlorobenzene

Concen: 0.031 ppbv

RT: 17.13 min Scan# 4460

Delta R.T. 0.01 min

Lab File: VL036429.D

Acq: 2 Mar 2021 14:50

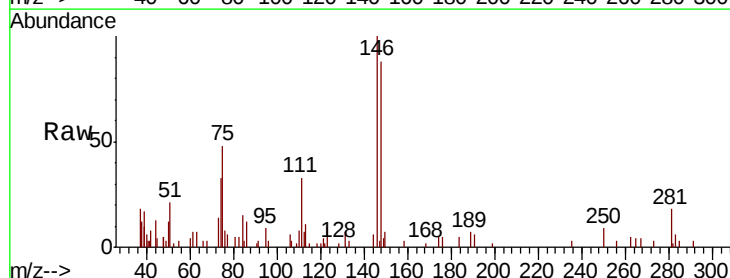
Tgt Ion:146 Resp: 6942

Ion Ratio Lower Upper

146 100

111 0.0 23.6 71.0#

148 210.4 31.6 95.0#



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

