

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037480.D
 Acq On : 17 Aug 2021 3:11
 Operator : SY/AP
 Sample : M2940-13 0.1LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 17 07:46:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1345166	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4043899	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3449135	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2483550	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	33038	0.153 ppbv	90
3) Chlorodifluoromethane	2.99	51	36779	0.143 ppbv	100
4) Chloromethane	3.14	50	5040	0.055 ppbv #	51
5) Vinyl Chloride	3.25	62	8406	0.089 ppbv	94
6) Bromomethane	3.47	94	2099	0.041 ppbv #	64
7) Chloroethane	3.55	64	2661	0.083 ppbv #	85
8) Dichlorotetrafluoroethane	3.18	85	28900	0.130 ppbv	97
9) Propene	3.00	41	10259	0.111 ppbv #	63
11) Trichlorofluoromethane	3.94	101	23732	0.117 ppbv #	78
12) 1,1,2-Trichlorotrifluoroet	4.48	101	6720	0.045 ppbv #	1
15) Acetone	3.87	43	34839	0.254 ppbv #	1
16) 1,3-Butadiene	3.31	39	8644	0.098 ppbv	84
18) 1,1-Dichloroethene	4.28	96	3287	0.049 ppbv #	11
20) Methylene Chloride	4.33	84	15279	0.223 ppbv #	78
21) Allyl Chloride	4.40	41	4432	0.040 ppbv #	5
22) trans-1,2-Dichloroethene	4.88	96	2026	0.030 ppbv #	8
23) Vinyl Acetate	5.07	43	7742	0.038 ppbv #	88
24) 1,1-Dichloroethane	5.00	63	10479	0.072 ppbv	97
25) Ethyl Acetate	5.67	43	12338	0.036 ppbv #	75
26) Hexane	5.67	57	17248	0.102 ppbv #	89
27) Carbon Disulfide	4.55	76	5760	0.038 ppbv #	27
29) Chloroform	5.73	83	8436	0.035 ppbv	84
32) 1,1,1-Trichloroethane	6.50	97	9012	0.038 ppbv #	1
35) Carbon Tetrachloride	7.00	117	10050	0.042 ppbv #	62
36) Benzene	6.87	78	14743	0.043 ppbv #	90
37) 1,2-Dichloroethane	6.29	62	13546	0.080 ppbv	97
38) Trichloroethene	7.82	130	8274	0.059 ppbv #	42
39) 1,2-Dichloropropane	7.16	63	942654	7.216 ppbv #	27
42) Bromodichloromethane	7.78	83	10065	0.041 ppbv #	49
44) 2,2,4-Trimethylpentane	7.85	57	35631	0.062 ppbv	54
52) Tetrachloroethene	11.21	164	5893	0.042 ppbv #	51
53) Toluene	9.79	91	13546	0.035 ppbv #	30
54) 1,2-Dibromoethane	10.59	107	10673	0.054 ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.11	131	4377	0.030 ppbv #	6
57) Chlorobenzene	12.13	112	17209	0.060 ppbv #	82
58) Ethyl Benzene	12.70	91	15949	0.033 ppbv	100
59) m/p-Xylene	12.98	91	17118	0.041 ppbv #	1
63) 1,1,2,2-Tetrachloroethane	13.66	83	14534	0.050 ppbv #	21
65) tert-Butylbenzene	16.73	119	17753	0.036 ppbv #	1
66) Benzyl Chloride	16.98	91	695	0.031 ppbv #	6
69) p-Isopropyltoluene	17.64	119	19249	0.034 ppbv #	48

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration

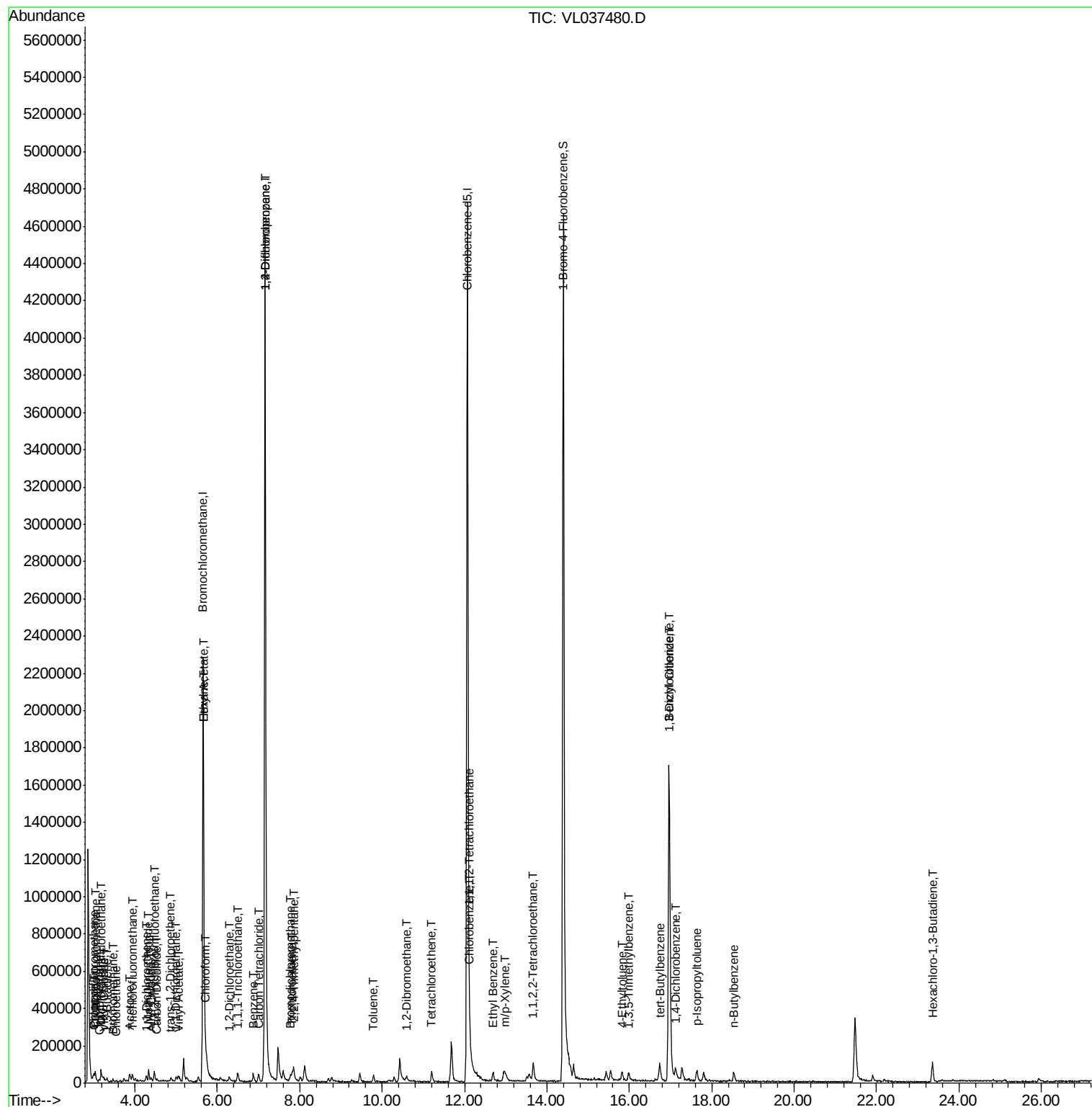
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.54	91	19144	0.035	ppbv #	32
72) 4-Ethyltoluene	15.82	105	19615	0.043	ppbv #	56
73) 1,3,5-Trimethylbenzene	15.98	105	15100	0.035	ppbv	94
75) 1,3-Dichlorobenzene	16.98	146	12228	0.045	ppbv #	1
76) 1,4-Dichlorobenzene	17.12	146	12328	0.045	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	12527	0.056	ppbv #	6

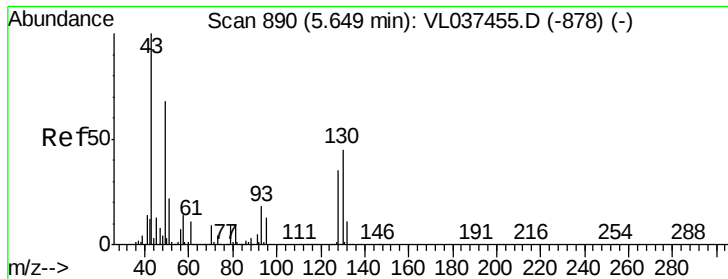
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081621\
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

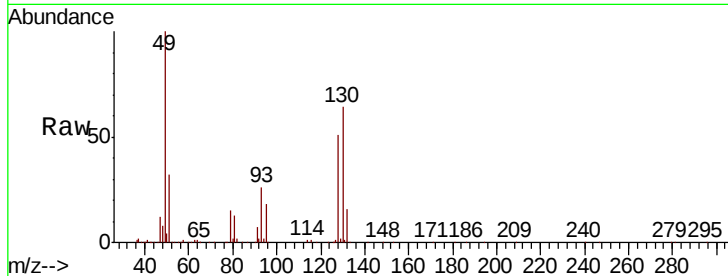
Tot Ion: 49 Resp: 1345166

Ion Ratio Lower Upper

49 100

128 54.6 27.5 82.4

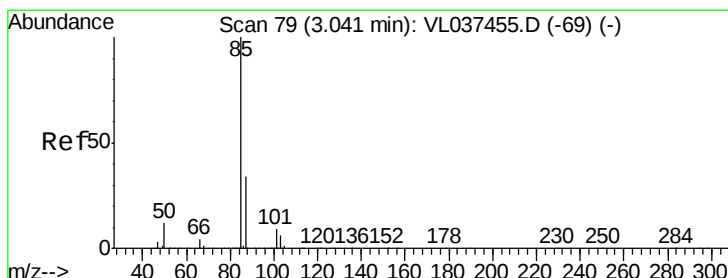
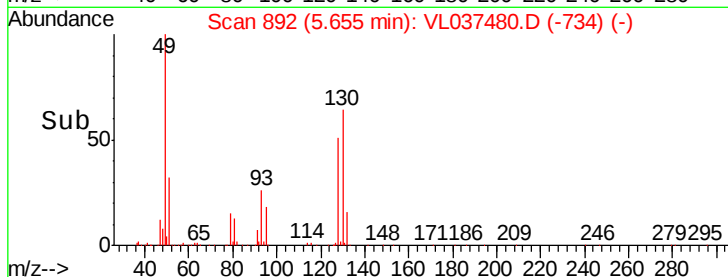
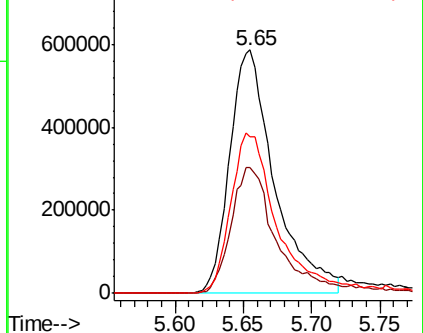
130 70.2 34.0 101.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.153 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL037480.D

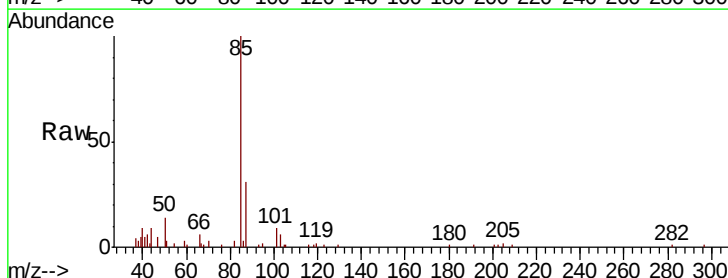
Acq: 17 Aug 2021 3:11

Tgt Ion: 85 Resp: 33038

Ion Ratio Lower Upper

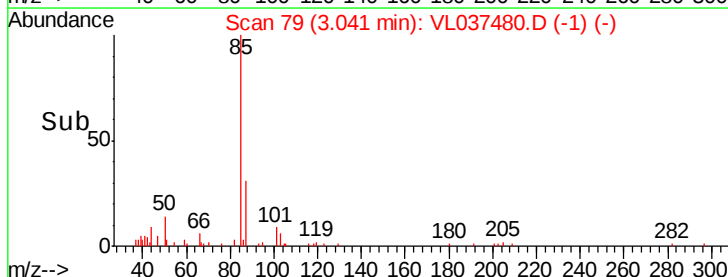
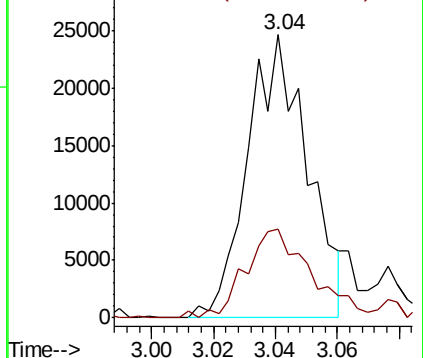
85 100

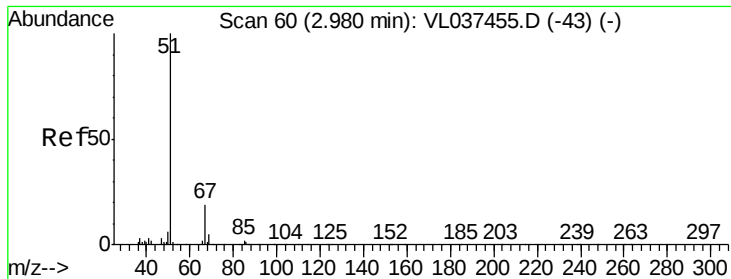
87 28.9 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

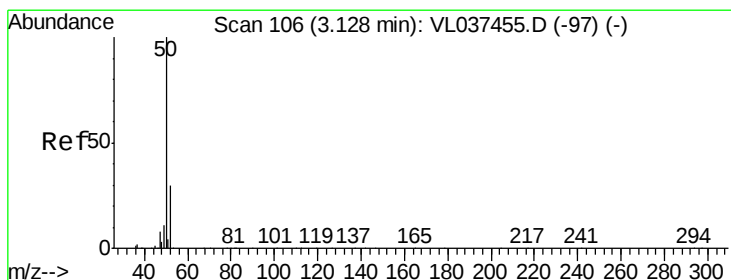
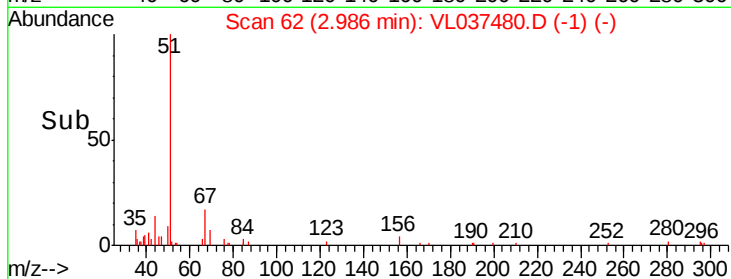
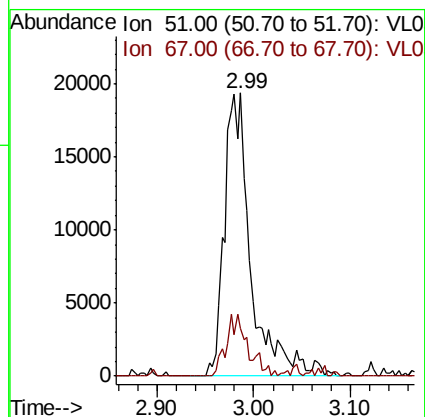
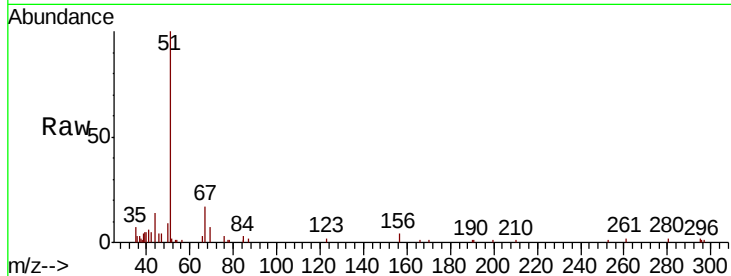




#3
Chlorodifluoromethane
Concen: 0.143 ppbv
RT: 2.99 min Scan# 62
Delta R.T. 0.01 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

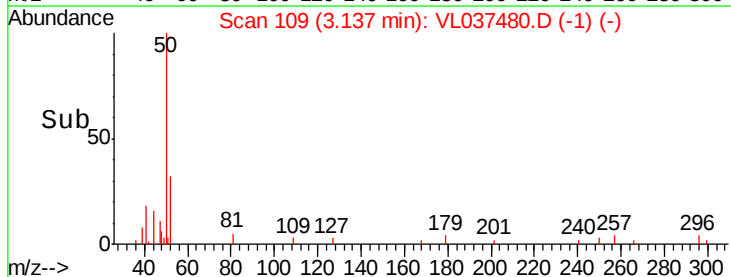
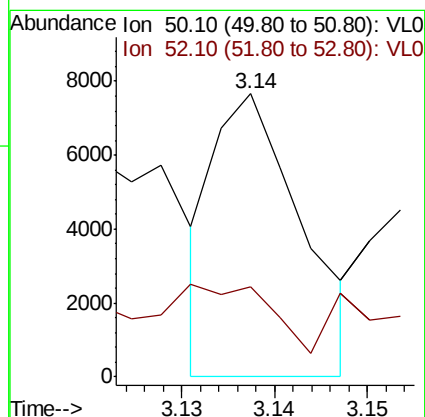
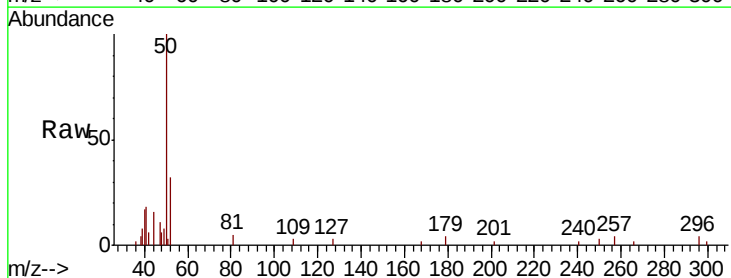
Instrument :
MSVOA_L
ClientSampleId :

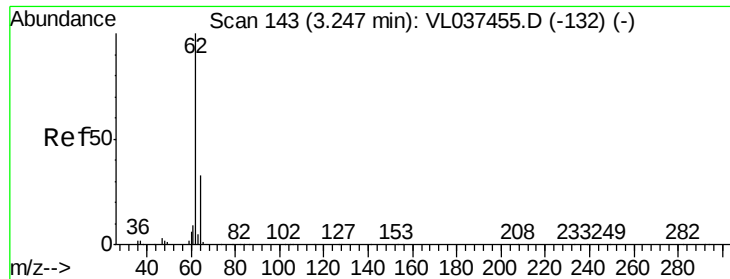
Tot Ion: 51 Resp: 36779
Ion Ratio Lower Upper
51 100
67 17.9 14.2 21.2



#4
Chloromethane
Concen: 0.055 ppbv
RT: 3.14 min Scan# 109
Delta R.T. 0.01 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Tgt Ion: 50 Resp: 5040
Ion Ratio Lower Upper
50 100
52 3.5 24.0 36.0#





#5

Vinyl Chloride

Concen: 0.089 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

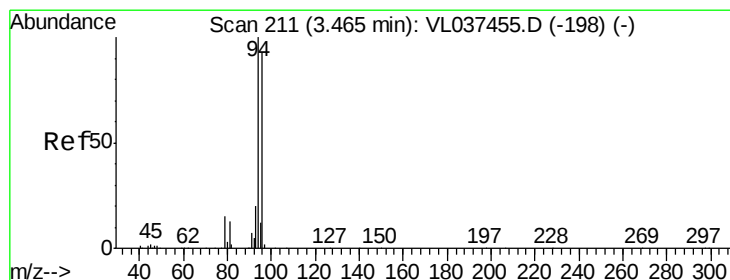
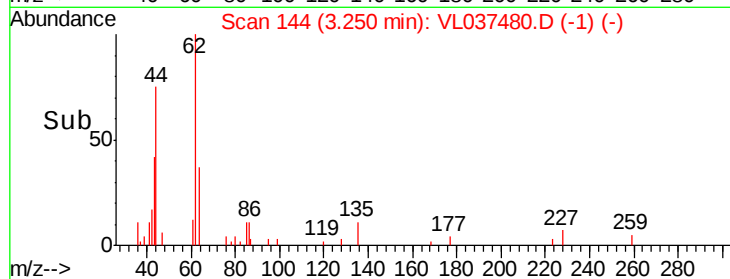
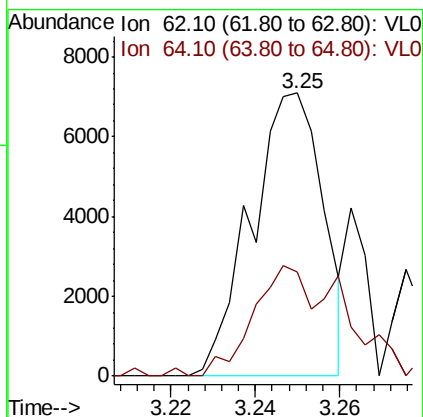
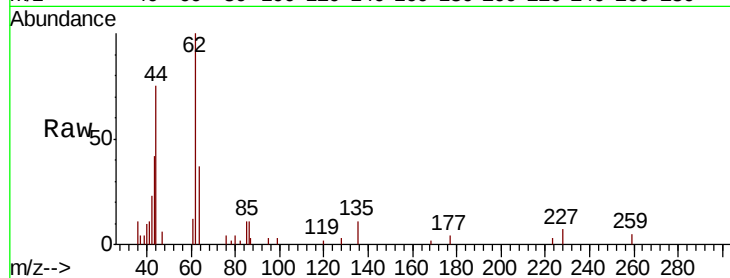
ClientSampled :

Tot Ion: 62 Resp: 8406

Ion Ratio Lower Upper

62 100

64 36.7 26.5 39.7



#6

Bromomethane

Concen: 0.041 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL037480.D

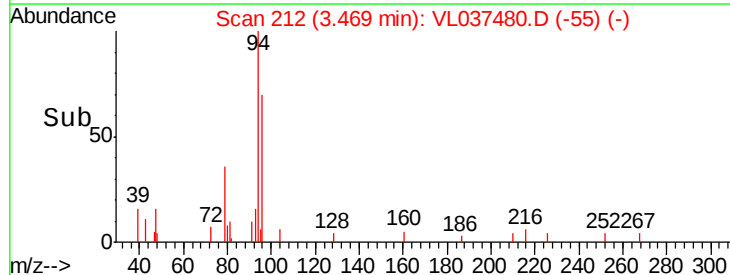
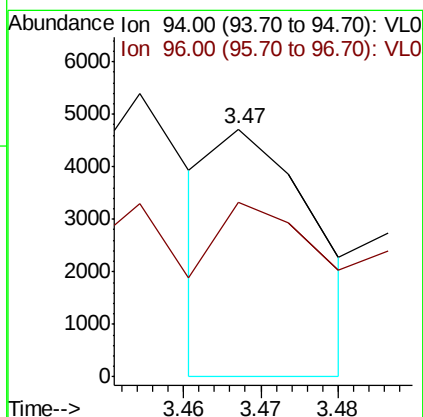
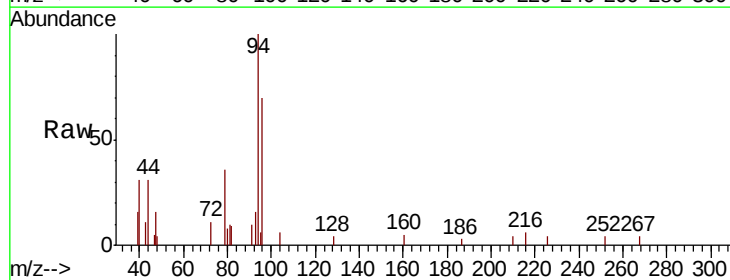
Acq: 17 Aug 2021 3:11

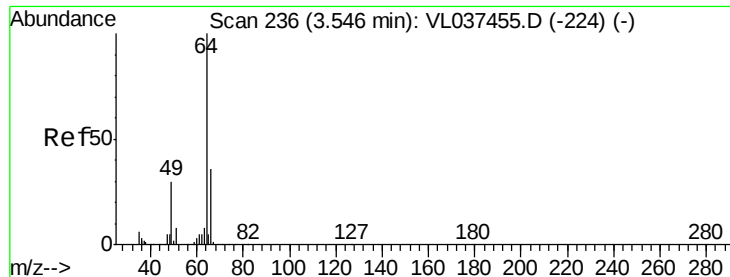
Tgt Ion: 94 Resp: 2099

Ion Ratio Lower Upper

94 100

96 58.4 74.5 111.7#





#7

Chloroethane

Concen: 0.083 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

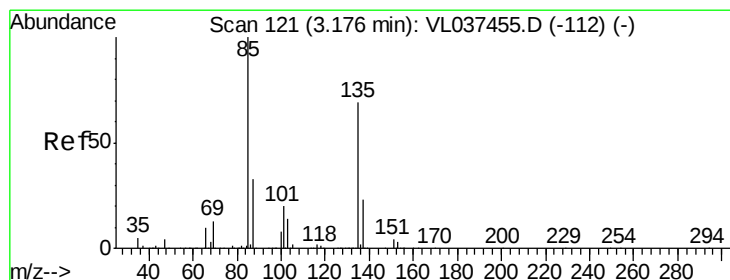
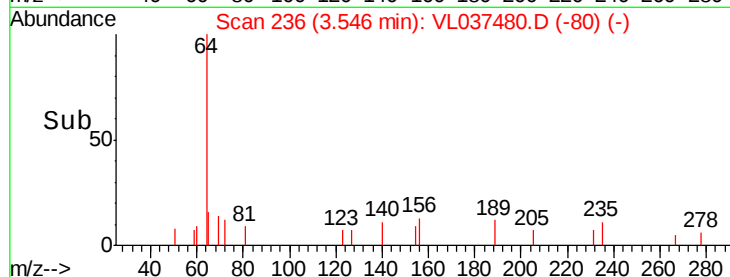
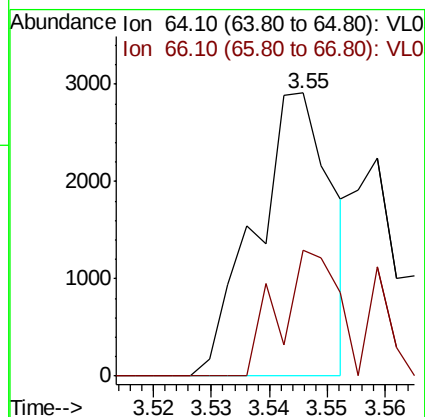
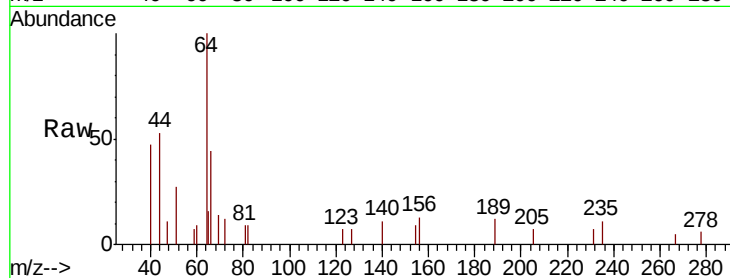
ClientSampleId :

Tot Ion: 64 Resp: 2661

Ion Ratio Lower Upper

64 100

66 44.4 28.6 43.0#



#8

Dichlorotetrafluoroethane

Concen: 0.130 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.00 min

Lab File: VL037480.D

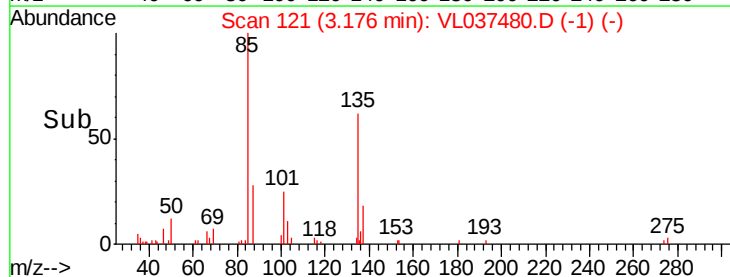
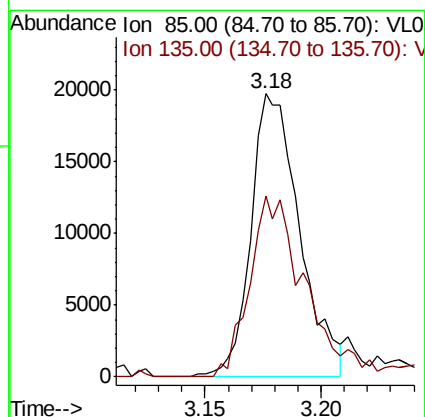
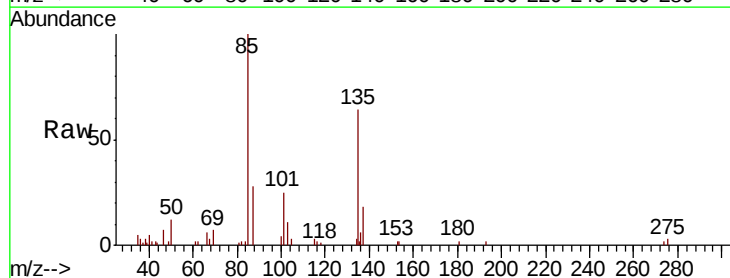
Acq: 17 Aug 2021 3:11

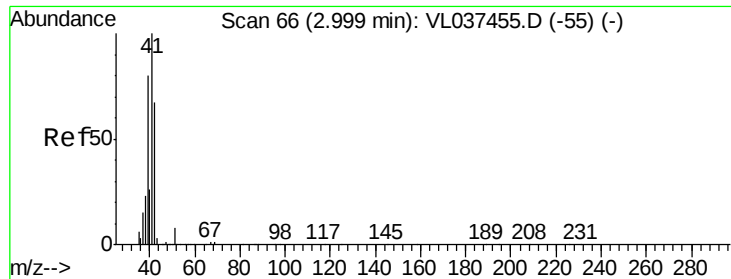
Tgt Ion: 85 Resp: 28900

Ion Ratio Lower Upper

85 100

135 76.1 58.8 88.2





#9

Propene

Concen: 0.111 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

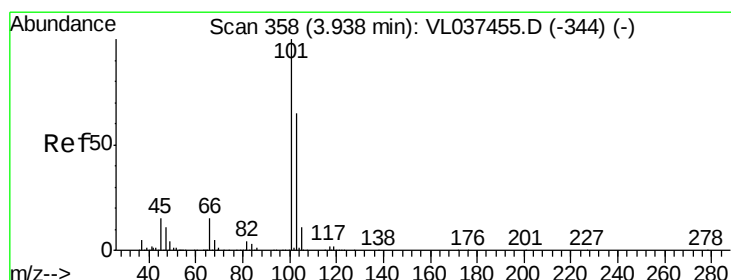
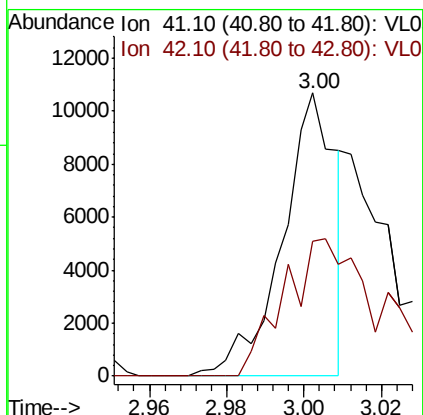
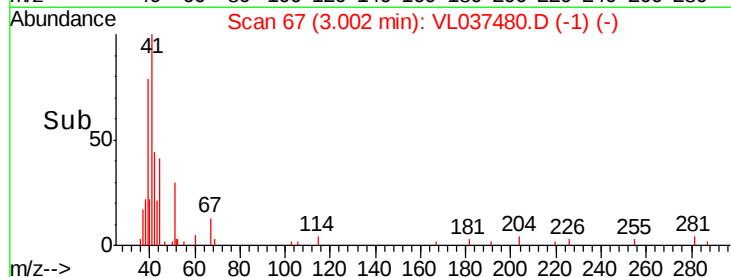
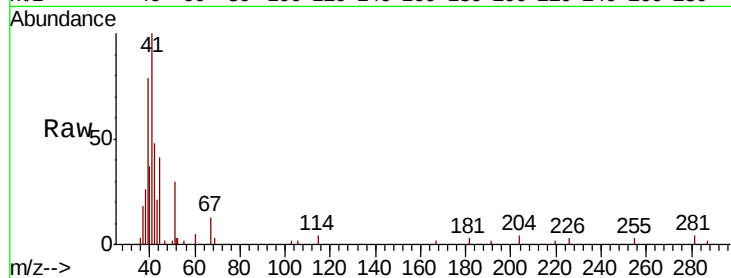
ClientSampleId :

Tot Ion: 41 Resp: 10259

Ion Ratio Lower Upper

41 100

42 96.8 53.7 80.5#



#11

Trichlorofluoromethane

Concen: 0.117 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL037480.D

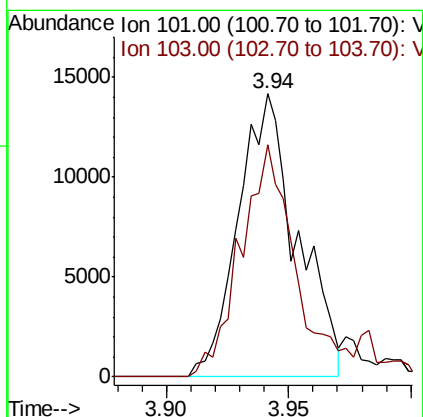
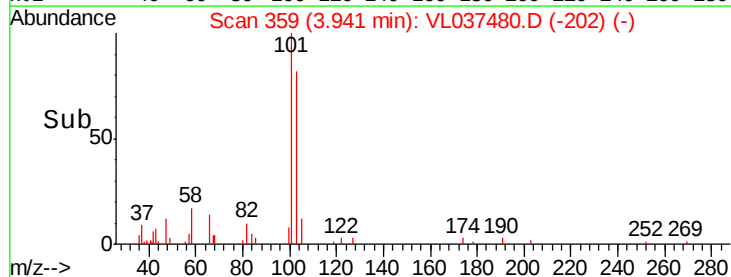
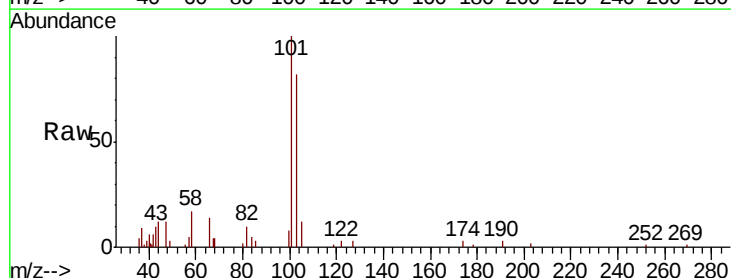
Acq: 17 Aug 2021 3:11

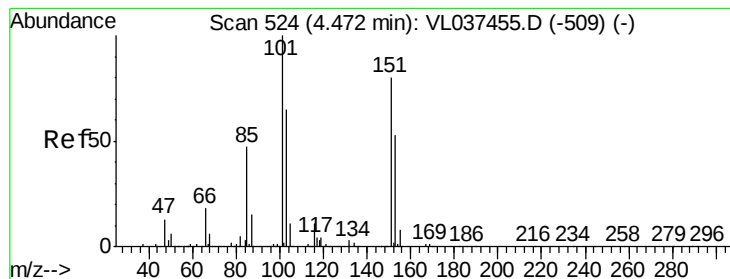
Tgt Ion: 101 Resp: 23732

Ion Ratio Lower Upper

101 100

103 82.1 51.8 77.6#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.045 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

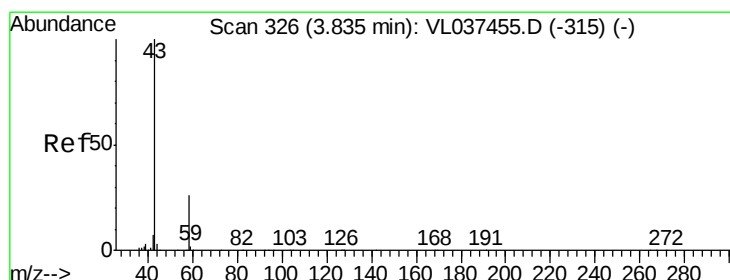
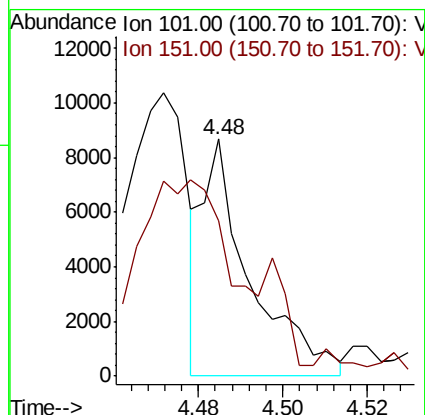
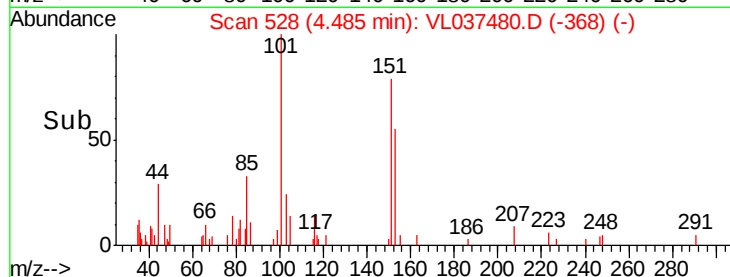
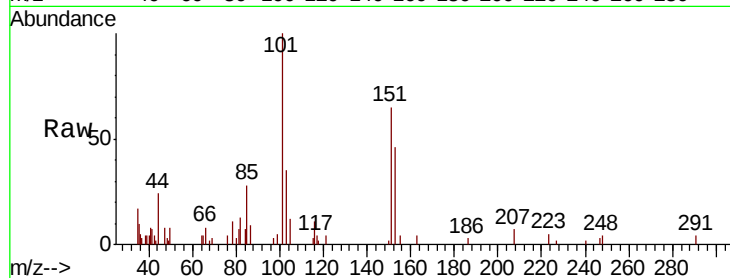
ClientSampleId :

Tot Ion:101 Resp: 6720

Ion Ratio Lower Upper

101 100

151 223.2 63.7 95.5#



#15

Acetone

Concen: 0.254 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.04 min

Lab File: VL037480.D

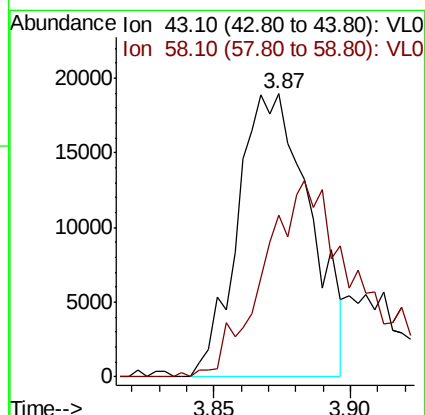
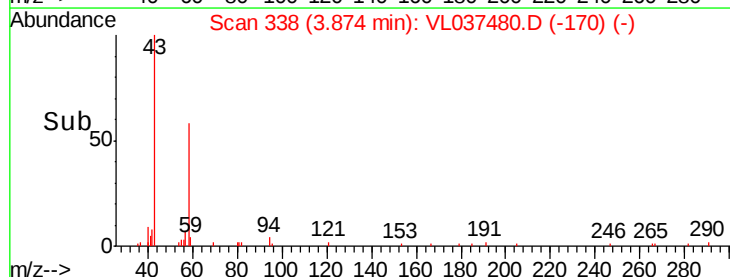
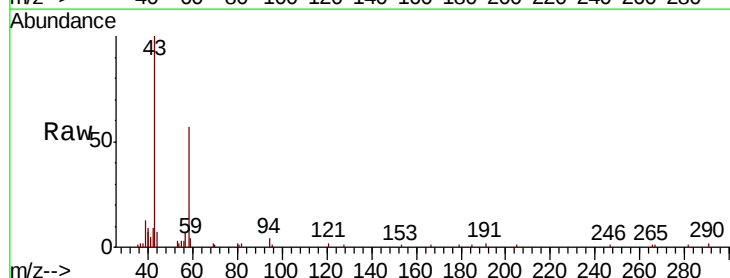
Acq: 17 Aug 2021 3:11

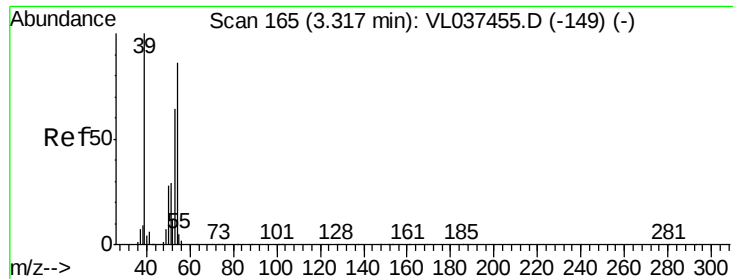
Tgt Ion: 43 Resp: 34839

Ion Ratio Lower Upper

43 100

58 100.8 24.8 37.2#

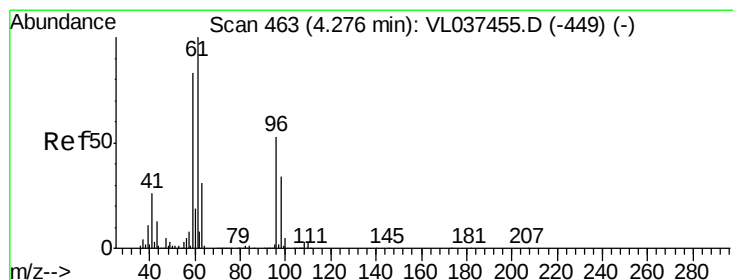
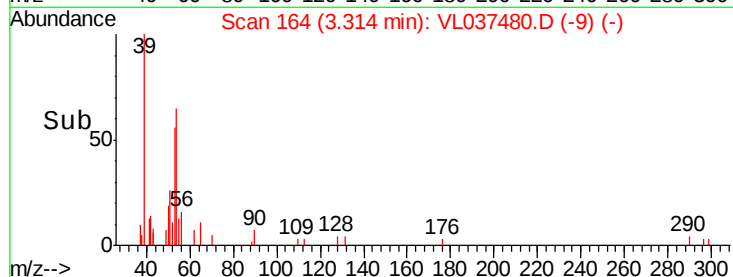
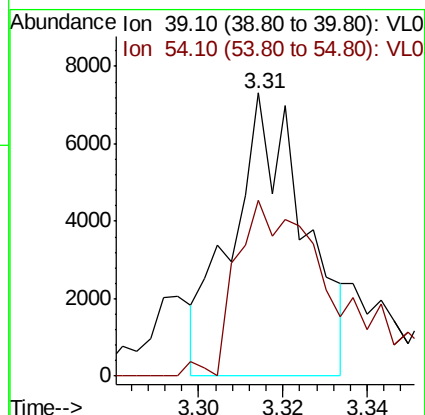
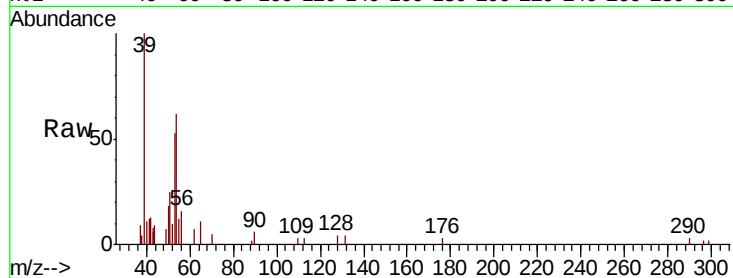




#16
 1,3-Butadiene
 Concen: 0.098 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. -0.00 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

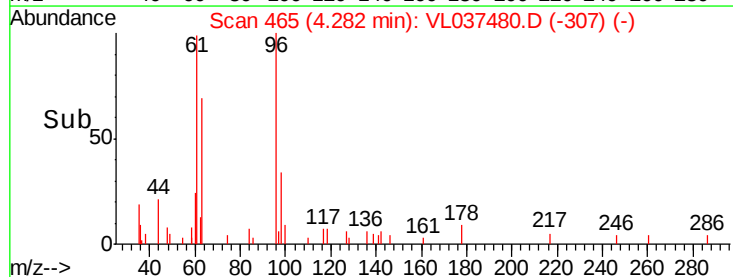
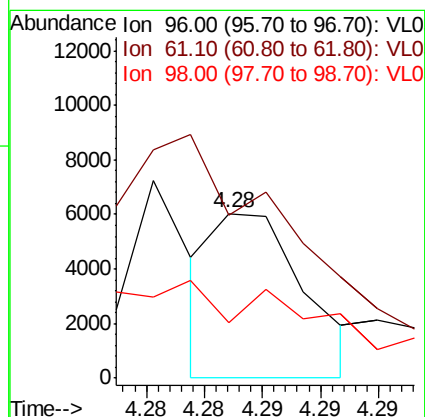
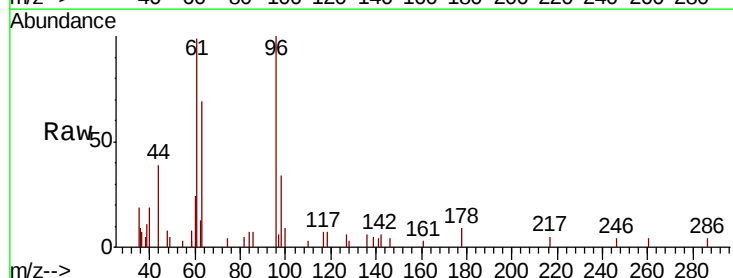
Instrument :
 MSVOA_L
 ClientSampled :

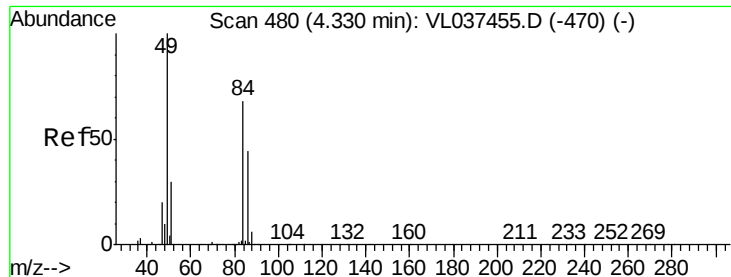
Tot Ion: 39 Resp: 8644
 Ion Ratio Lower Upper
 39 100
 54 93.2 63.7 95.5



#18
 1,1-Dichloroethene
 Concen: 0.049 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. 0.01 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

Tgt Ion: 96 Resp: 3287
 Ion Ratio Lower Upper
 96 100
 61 55.2 151.1 226.7#
 98 0.0 51.8 77.8#

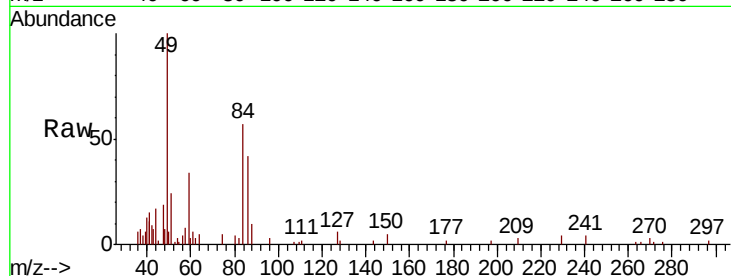




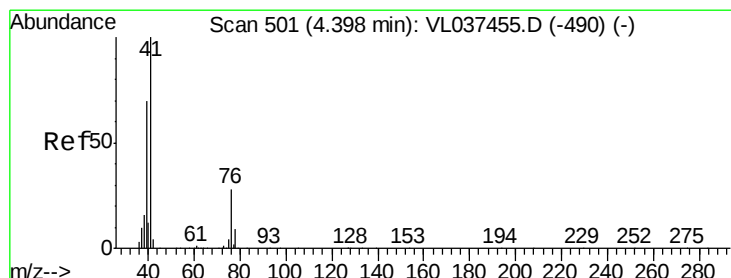
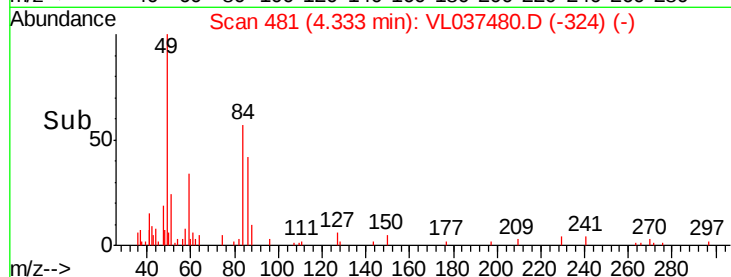
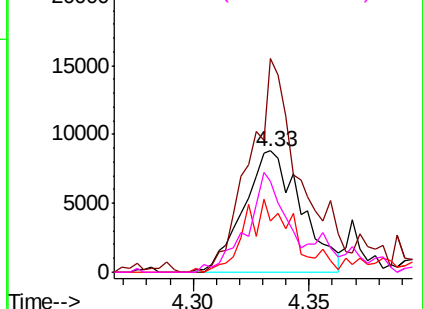
#20
Methvlene Chloride
Concen: 0.223 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 15279
Ion Ratio Lower Upper
84 100
49 187.0 118.2 177.2#
51 42.3 36.6 55.0
86 74.3 51.8 77.6

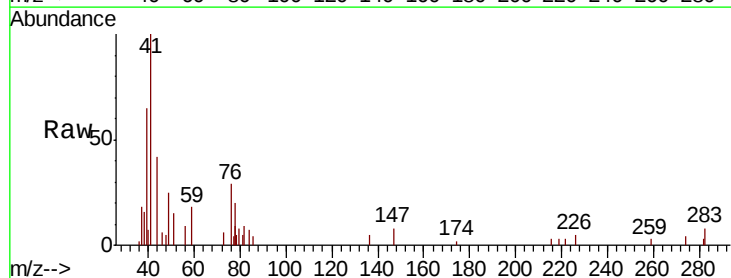


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

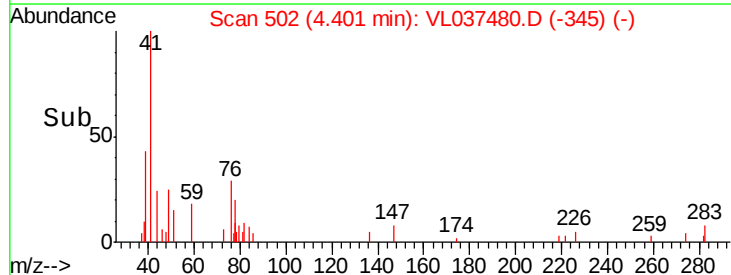
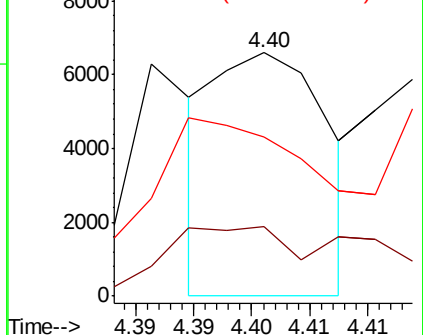


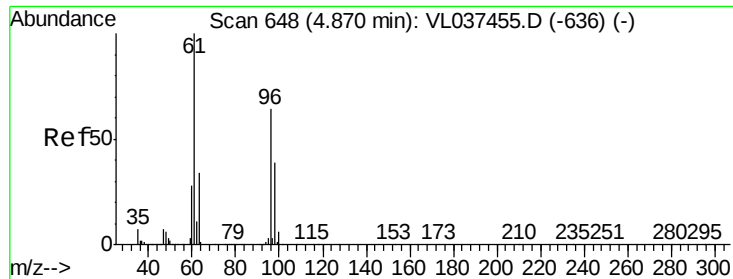
#21
Allyl Chloride
Concen: 0.040 ppbv
RT: 4.40 min Scan# 502
Delta R.T. 0.00 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Tgt Ion: 41 Resp: 4432
Ion Ratio Lower Upper
41 100
76 89.6 21.8 32.6#
39 0.0 56.8 85.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.030 ppbv

RT: 4.88 min Scan# 650

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

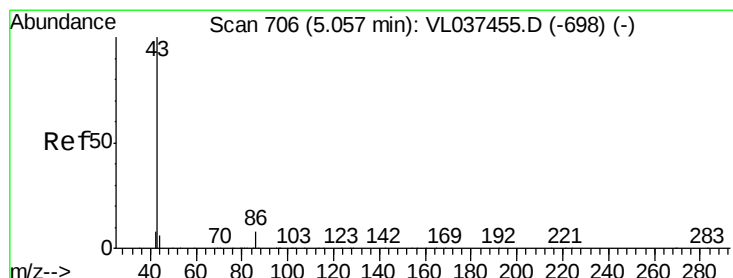
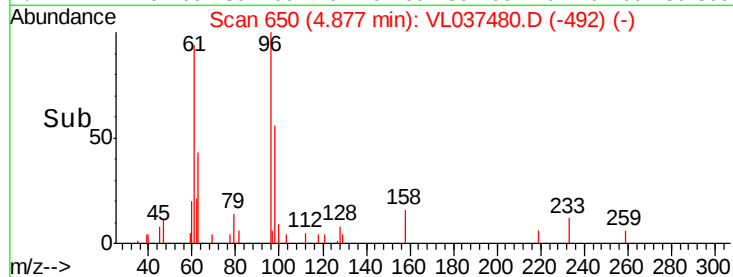
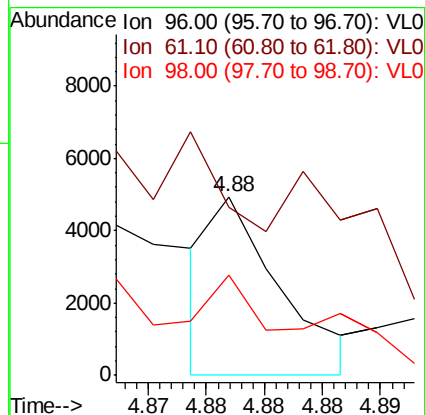
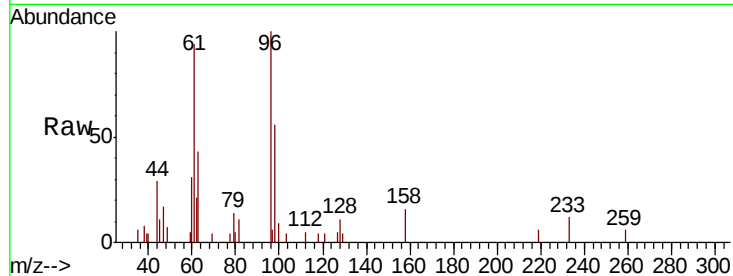
Tot Ion: 96 Resp: 2026

Ion Ratio Lower Upper

96 100

61 9.0 125.5 188.3#

98 33.1 49.0 73.4#



#23

Vinyl Acetate

Concen: 0.038 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Tgt Ion: 43 Resp: 7742

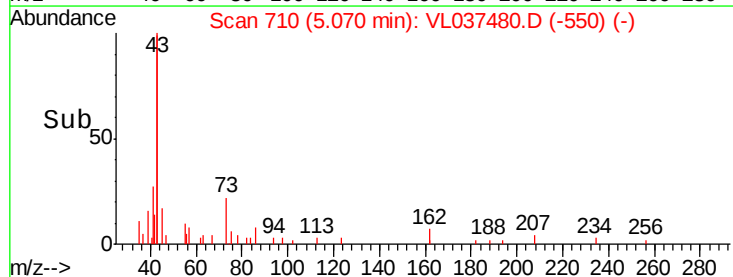
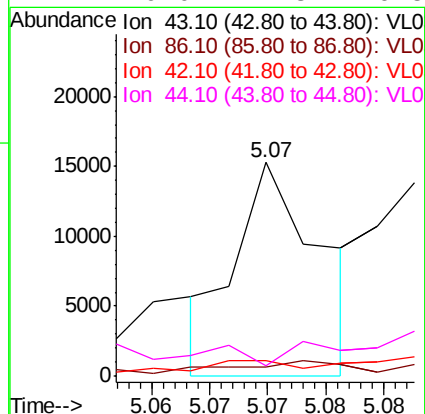
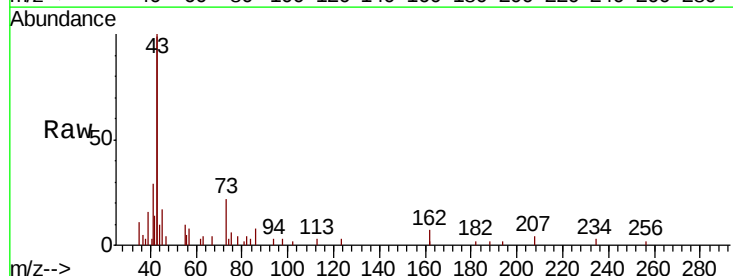
Ion Ratio Lower Upper

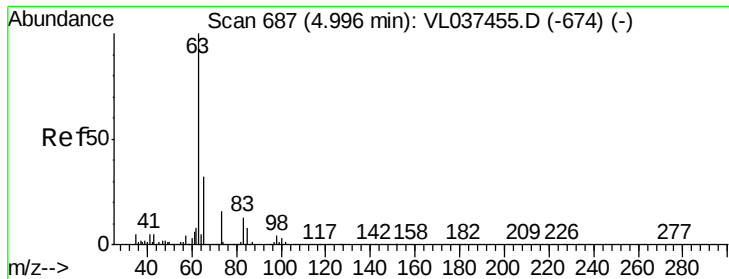
43 100

86 0.1 5.7 8.5#

42 7.9 7.4 11.2

44 0.0 4.3 6.5#





#24

1,1-Dichloroethane

Concen: 0.072 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL037480.D

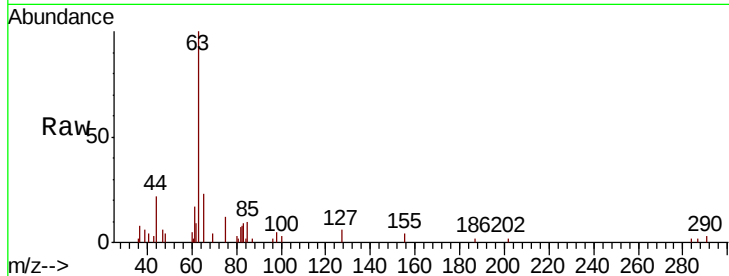
Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

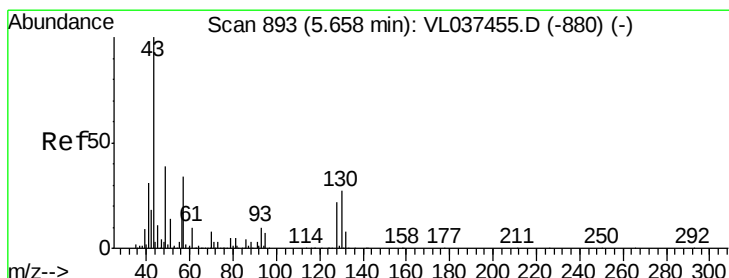
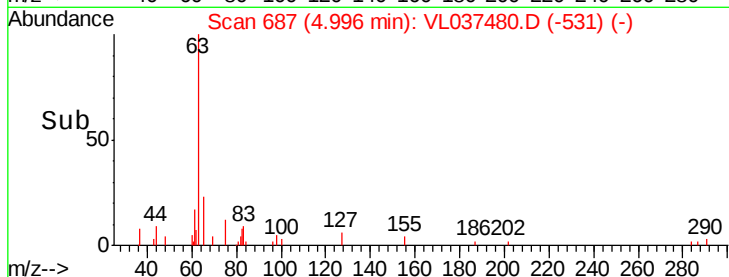
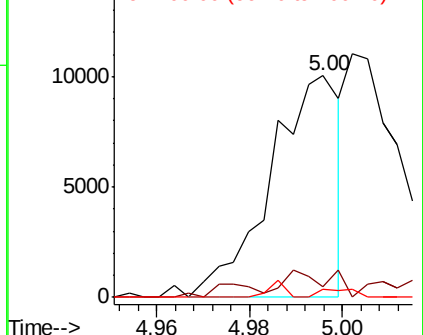
Tot Ion:	63	Resp:	10479
Ion	Ratio	Lower	Upper
63	100		
98	3.0	2.1	6.3
100	3.5	1.6	4.7



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.036 ppbv

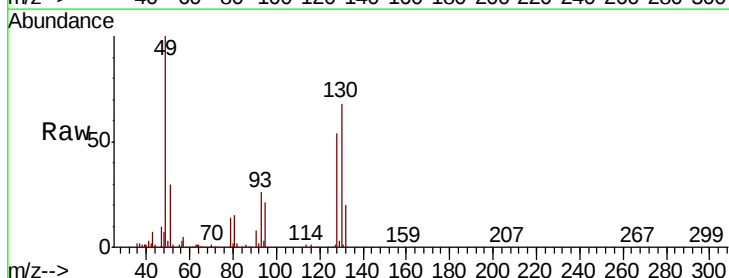
RT: 5.67 min Scan# 898

Delta R.T. 0.02 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Tgt Ion:	43	Resp:	12338
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.0	8.0	12.0#
70	0.0	5.6	8.4#

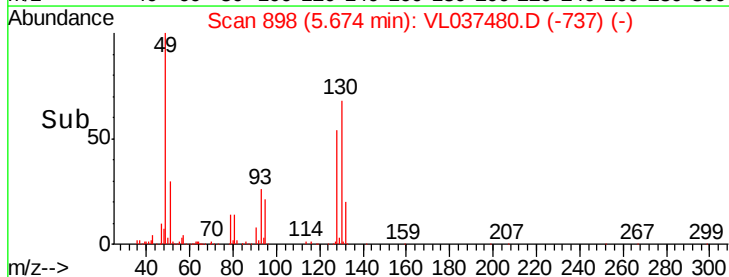
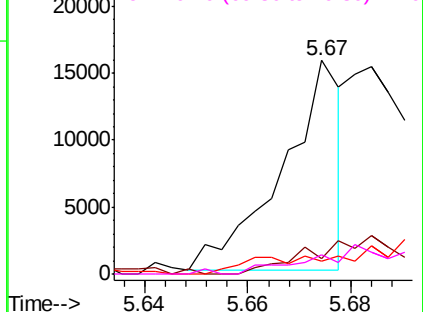


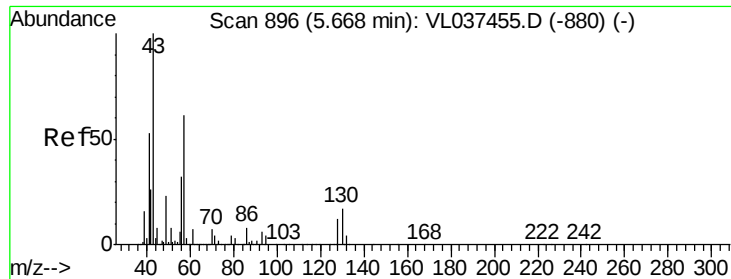
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

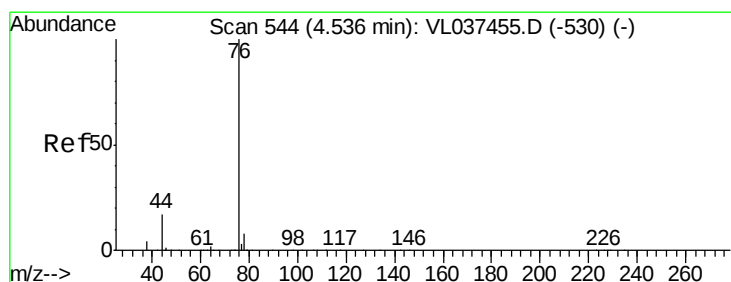
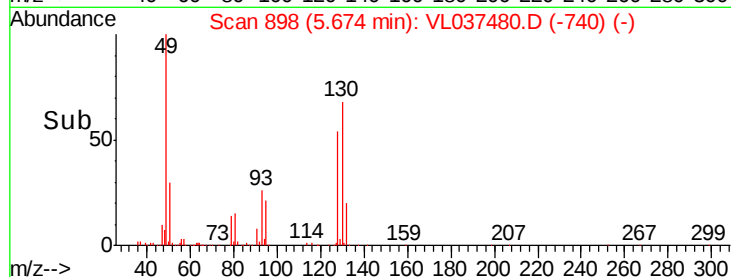
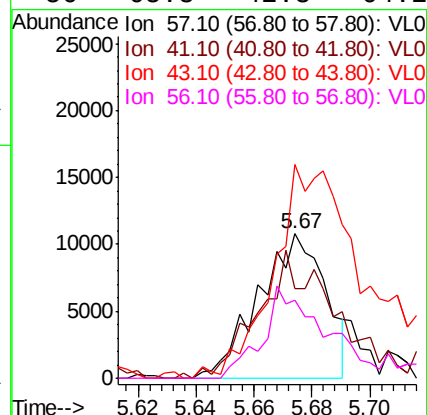
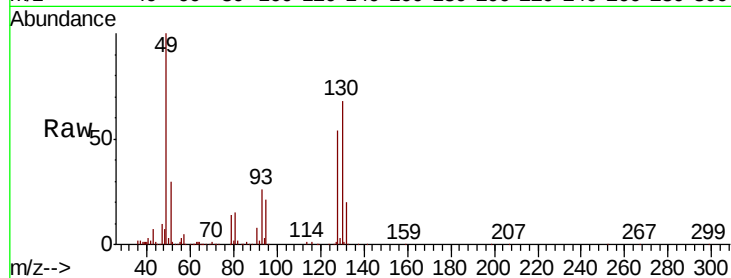




#26
Hexane
Concen: 0.102 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

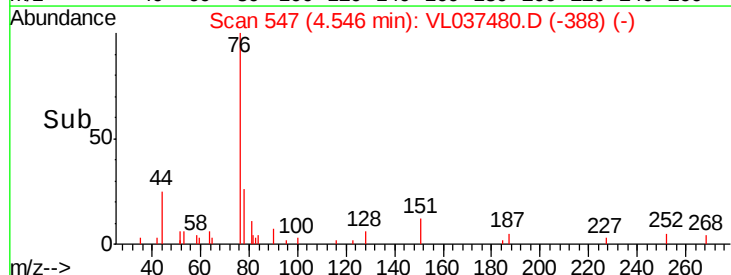
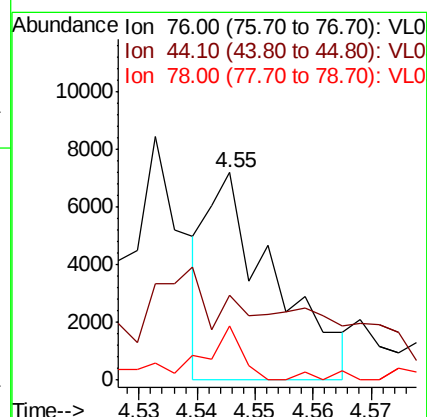
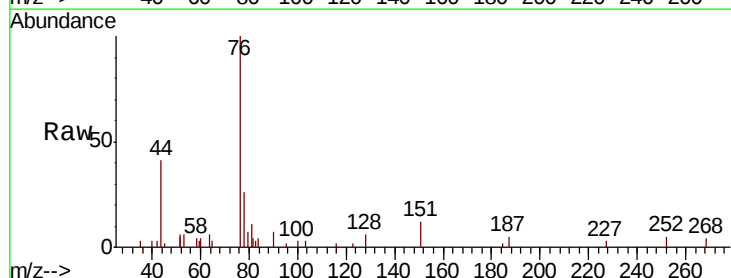
Instrument :
MSVOA_L
ClientSampled :

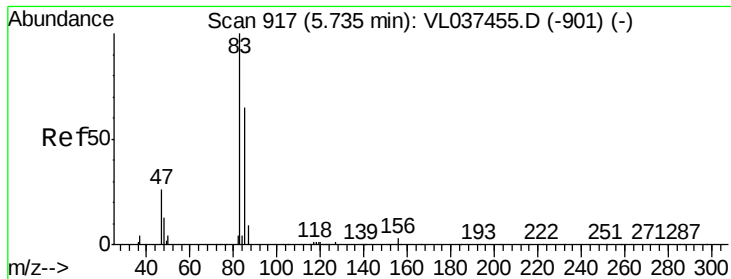
Tot Ion: 57 Resp: 17248
Ion Ratio Lower Upper
57 100
41 100.2 72.3 108.5
43 231.1 172.3 258.5
56 65.8 42.8 64.2#



#27
Carbon Disulfide
Concen: 0.038 ppbv
RT: 4.55 min Scan# 547
Delta R.T. 0.01 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Tgt Ion: 76 Resp: 5760
Ion Ratio Lower Upper
76 100
44 58.0 13.9 20.9#
78 23.6 7.9 11.9#

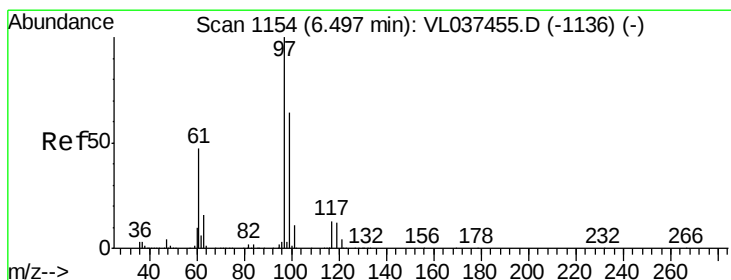
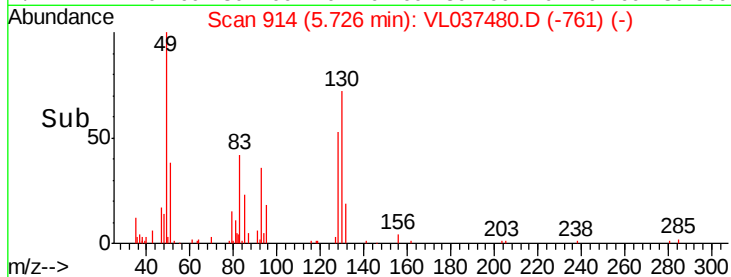
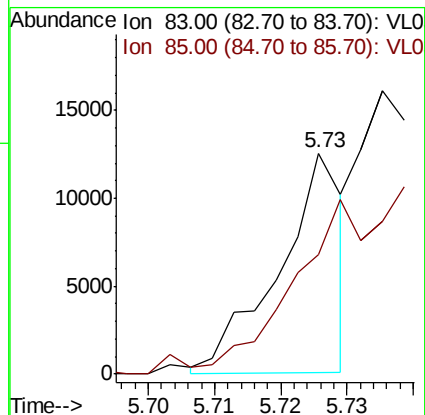
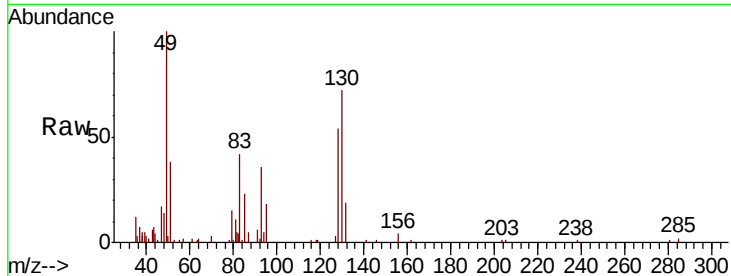




#29
Chloroform
Concen: 0.035 ppbv
RT: 5.73 min Scan# 914
Delta R.T. -0.01 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

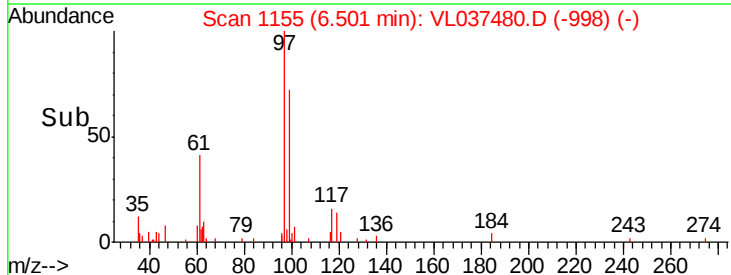
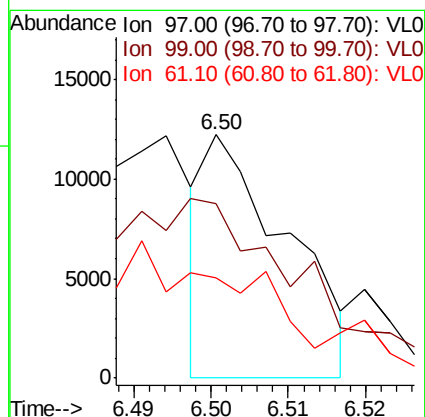
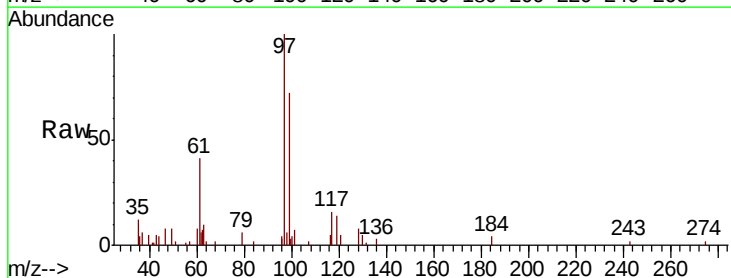
Instrument :
MSVOA_L
ClientSampled :

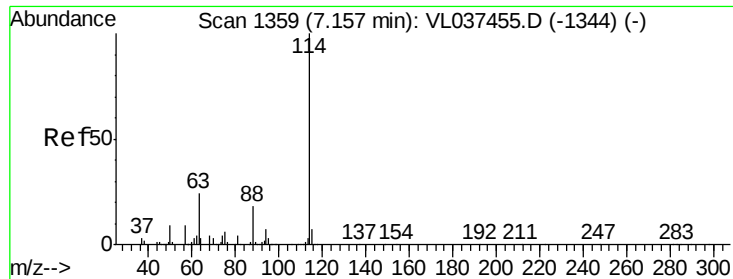
Tot Ion: 83 Resp: 8436
Ion Ratio Lower Upper
83 100
85 52.7 52.3 78.5



#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv
RT: 6.50 min Scan# 1155
Delta R.T. 0.00 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Tgt Ion: 97 Resp: 9012
Ion Ratio Lower Upper
97 100
99 215.7 51.8 77.6#
61 0.0 39.6 59.4#

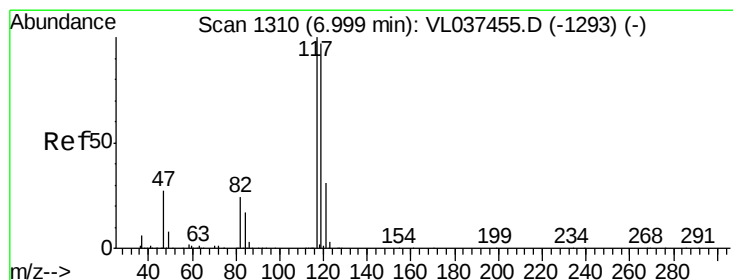
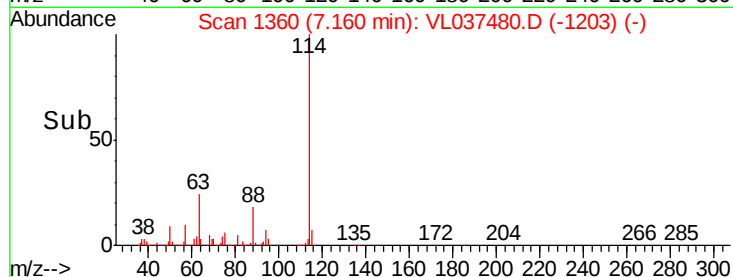
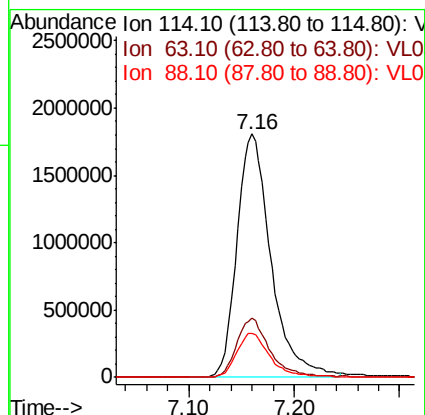
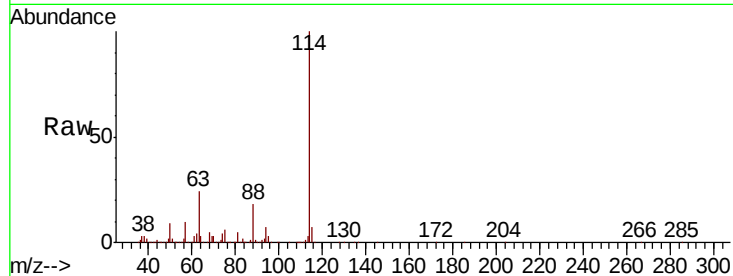




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

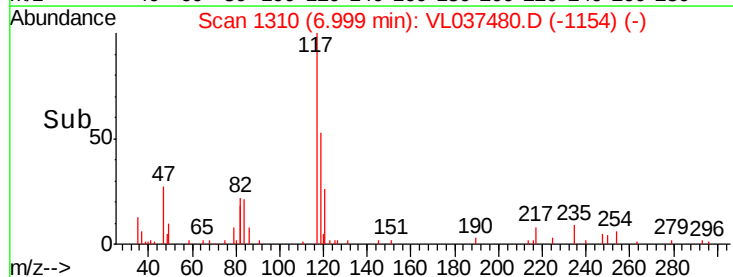
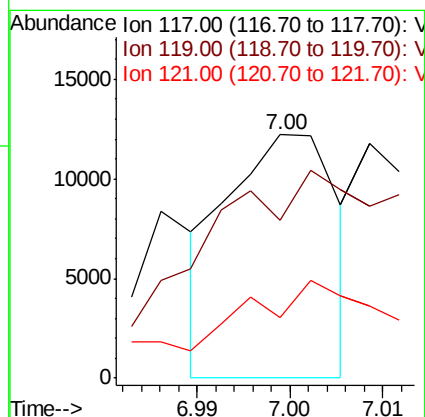
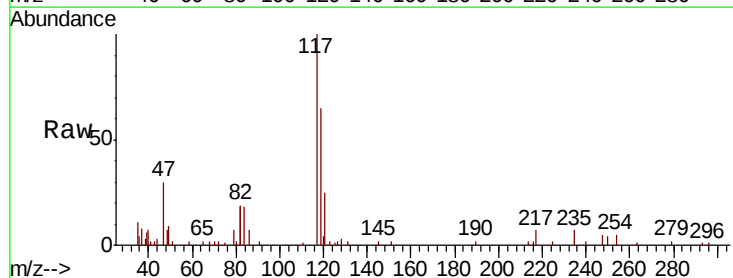
Instrument :
 MSVOA_L
 ClientSampleId :

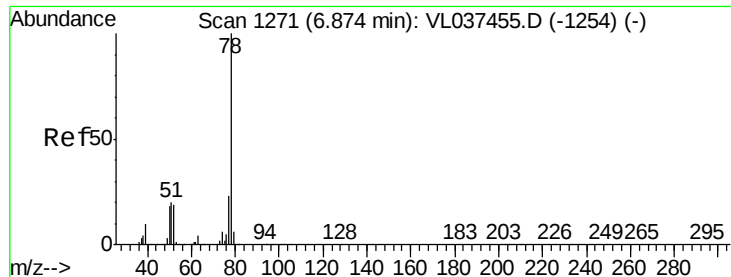
Tot Ion:114 Resp: 4043899
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.3 28.9
 88 18.2 14.2 21.4



#35
 Carbon Tetrachloride
 Concen: 0.042 ppbv
 RT: 7.00 min Scan# 1310
 Delta R.T. 0.00 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

Tgt Ion:117 Resp: 10050
 Ion Ratio Lower Upper
 117 100
 119 49.4 77.3 115.9#
 121 34.6 25.2 37.8





#36

Benzene

Concen: 0.043 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

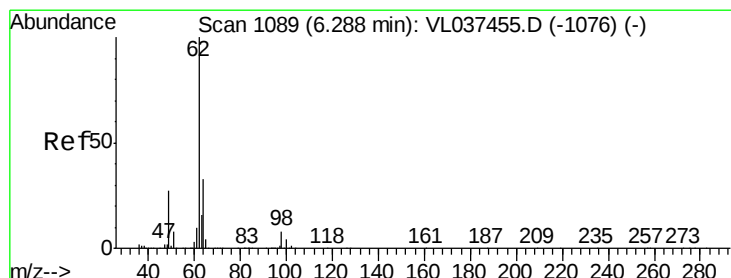
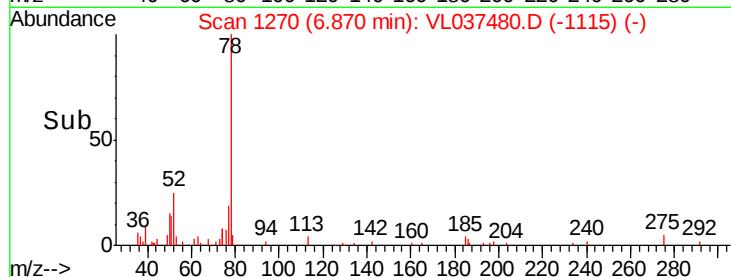
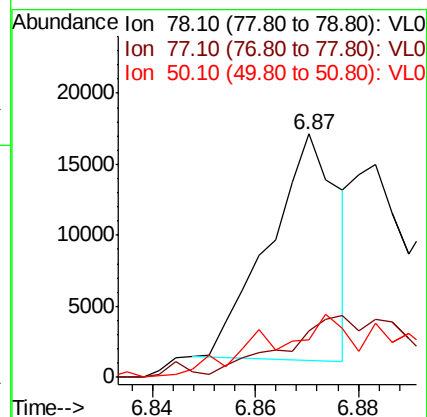
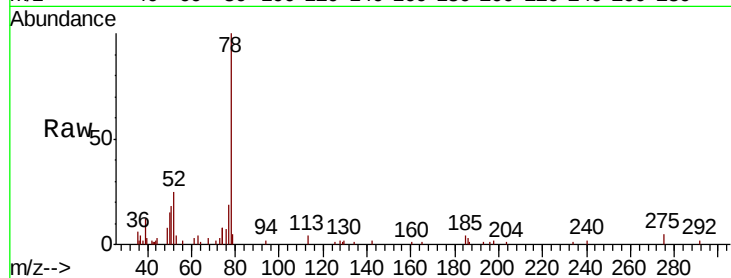
Tot Ion: 78 Resp: 14743

Ion Ratio Lower Upper

78 100

77 18.6 18.2 27.4

50 13.2 14.6 21.8#



#37

1,2-Dichloroethane

Concen: 0.080 ppbv

RT: 6.29 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VL037480.D

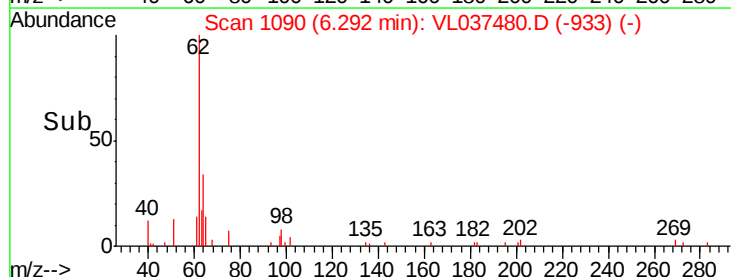
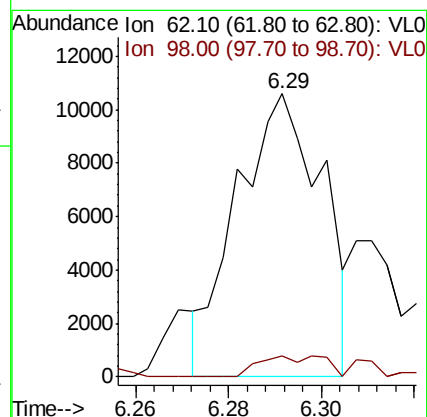
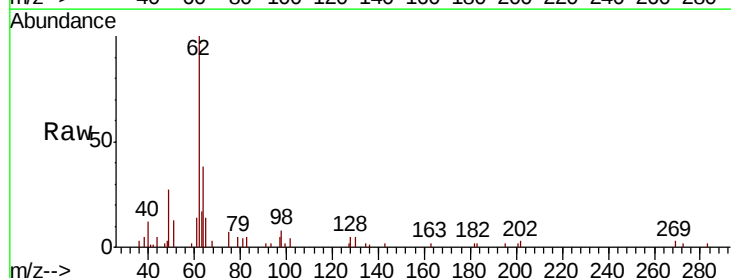
Acq: 17 Aug 2021 3:11

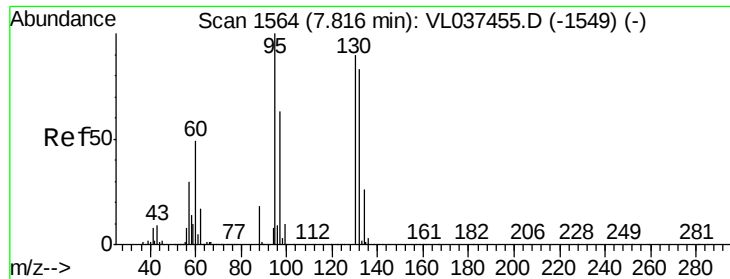
Tgt Ion: 62 Resp: 13546

Ion Ratio Lower Upper

62 100

98 8.6 6.0 9.0

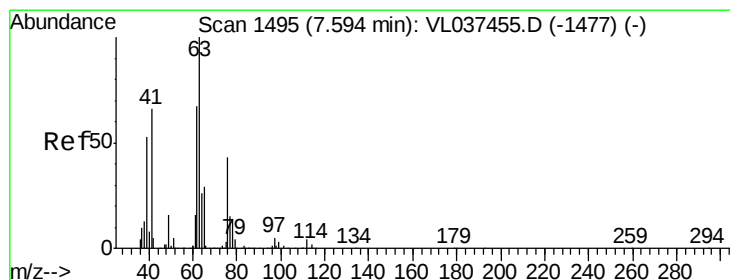
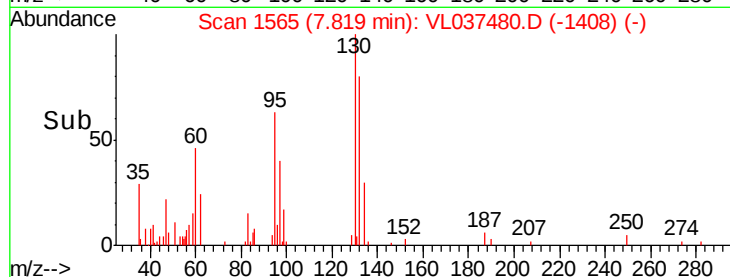
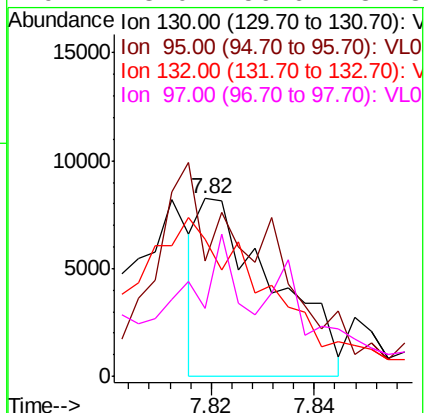
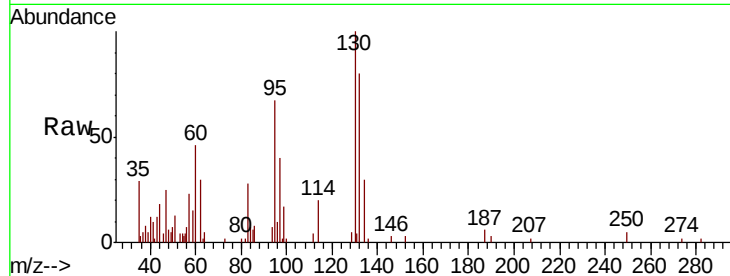




#38
 Trichloroethene
 Concen: 0.059 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

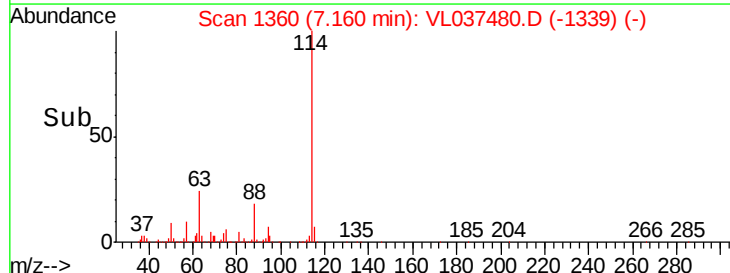
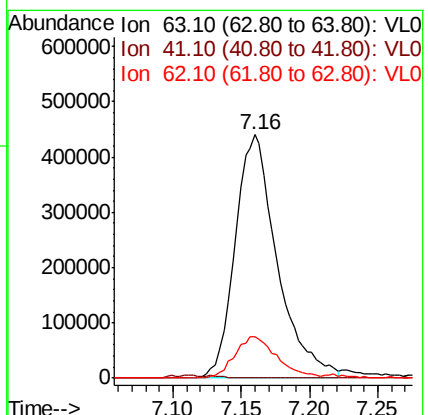
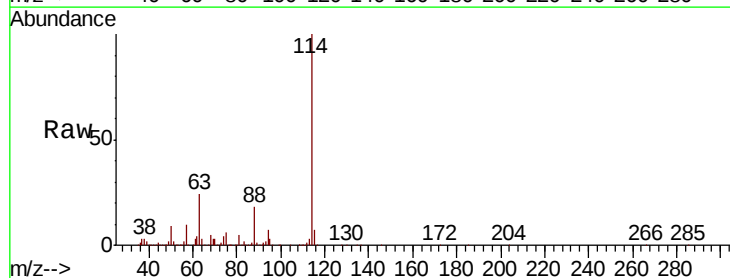
Instrument :
 MSVOA_L
 ClientSampleId :

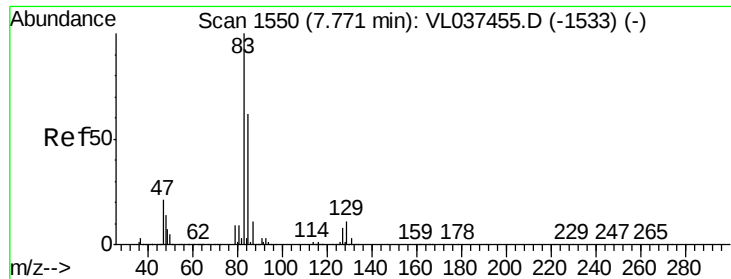
Tot Ion:130 Resp: 8274
 Ion Ratio Lower Upper
 130 100
 95 32.0 89.2 133.8#
 132 63.8 74.0 111.0#
 97 13.0 56.6 84.8#



#39
 1,2-Dichloropropane
 Concen: 7.216 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

Tgt Ion: 63 Resp: 942654
 Ion Ratio Lower Upper
 63 100
 41 0.1 52.4 78.6#
 62 16.8 53.6 80.4#





#42

Bromodichloromethane

Concen: 0.041 ppbv

RT: 7.78 min Scan# 1552

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

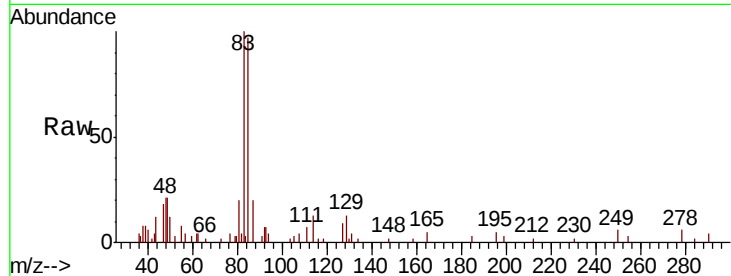
Tot Ion: 83 Resp: 10065

Ion Ratio Lower Upper

83 100

85 106.2 49.5 74.3#

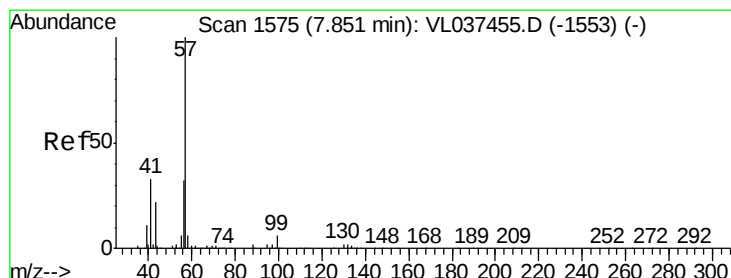
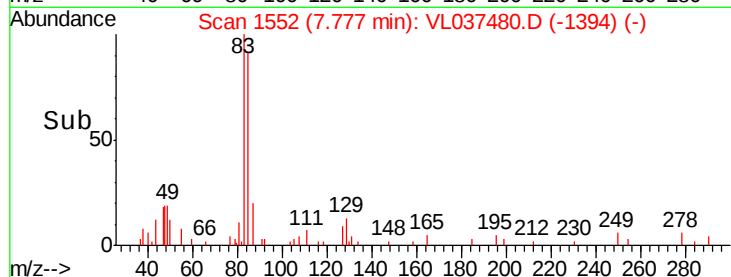
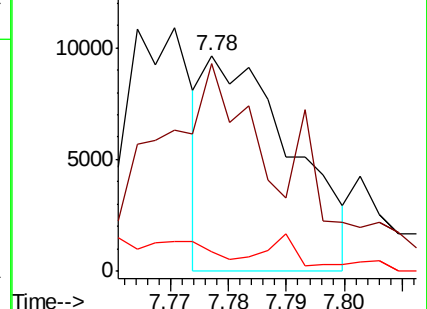
127 8.7 6.3 9.5



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): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.062 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

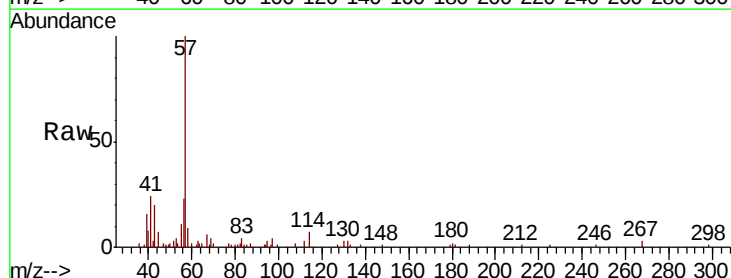
Tgt Ion: 57 Resp: 35631

Ion Ratio Lower Upper

57 100

41 57.3 26.2 39.4#

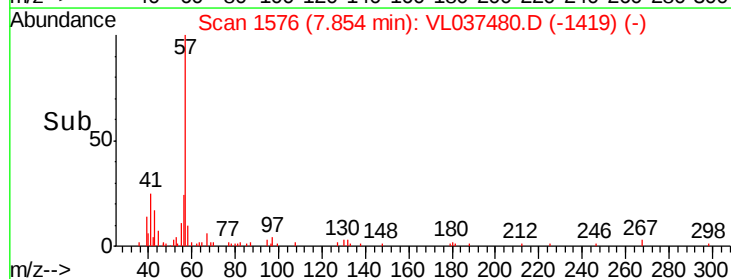
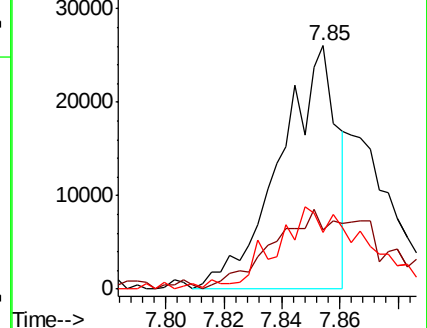
56 58.6 25.4 38.2#

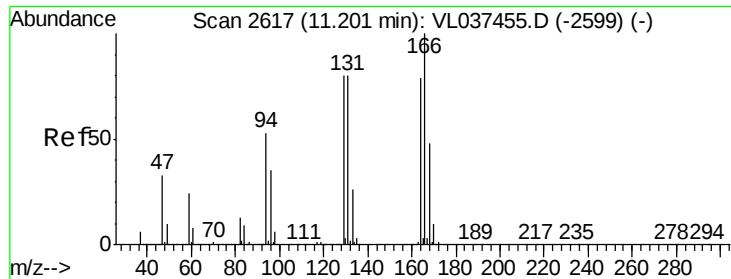


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 5893

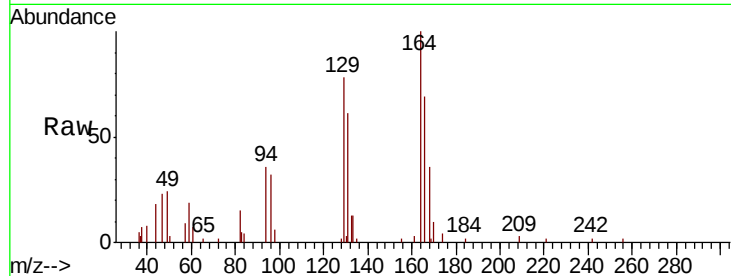
Ion Ratio Lower Upper

164 100

166 41.6 100.7 151.1#

129 73.9 80.9 121.3#

131 61.3 80.2 120.4#

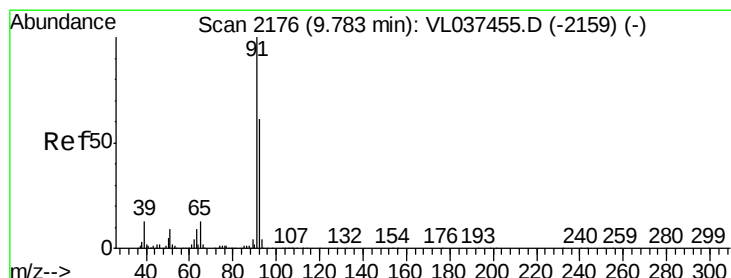
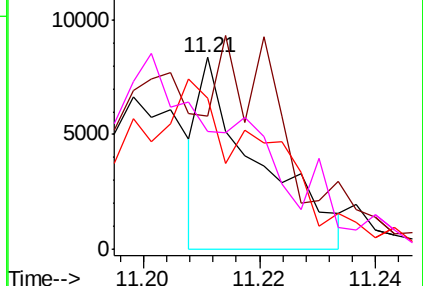
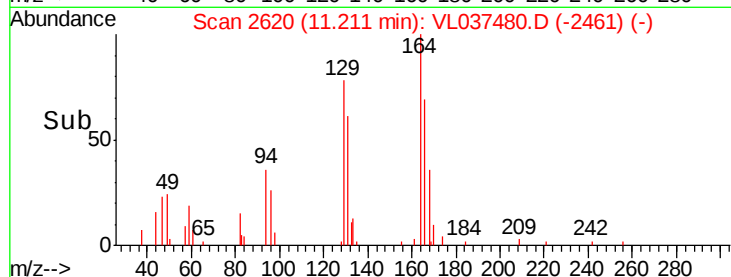


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.035 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037480.D

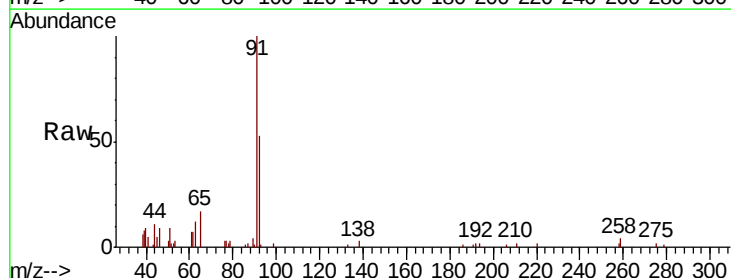
Acq: 17 Aug 2021 3:11

Tgt Ion: 91 Resp: 13546

Ion Ratio Lower Upper

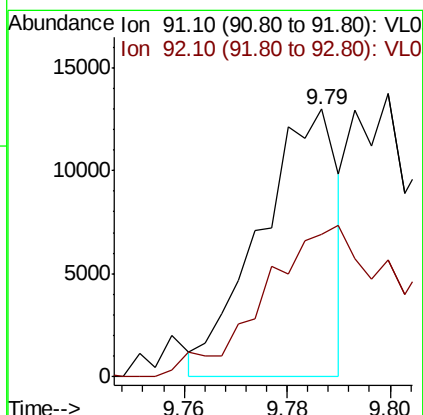
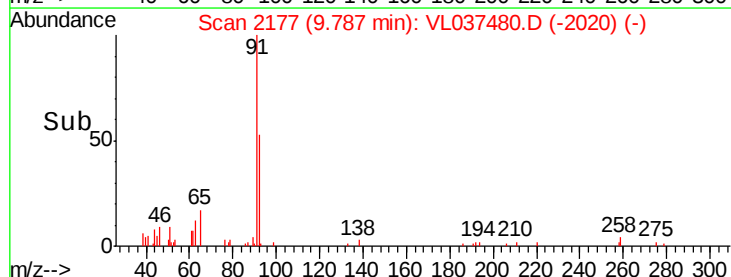
91 100

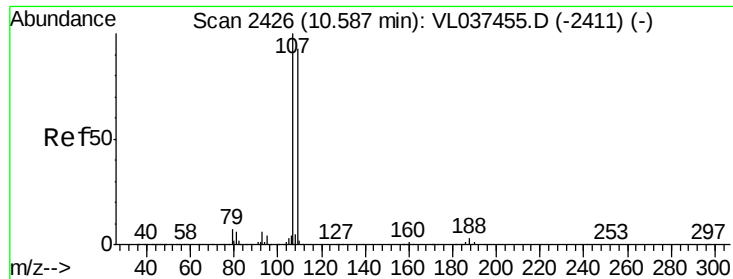
92 114.0 48.8 73.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

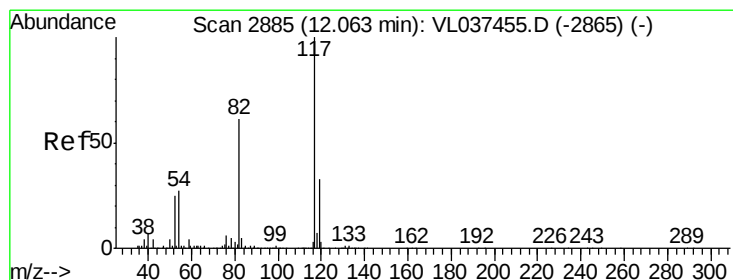
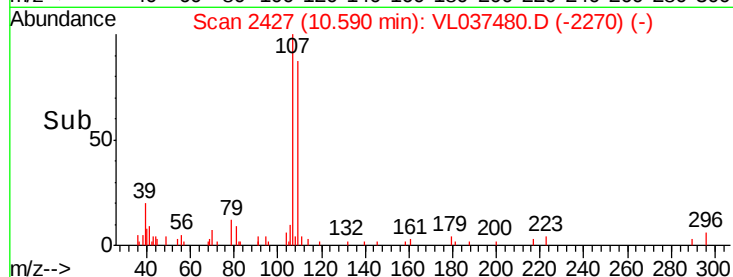
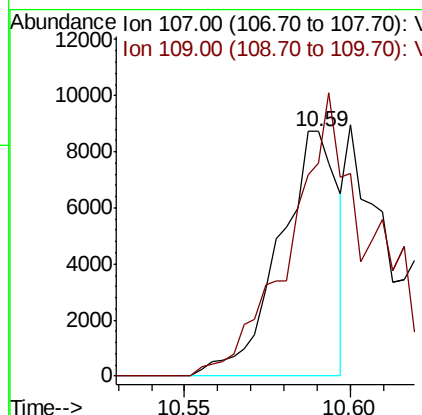
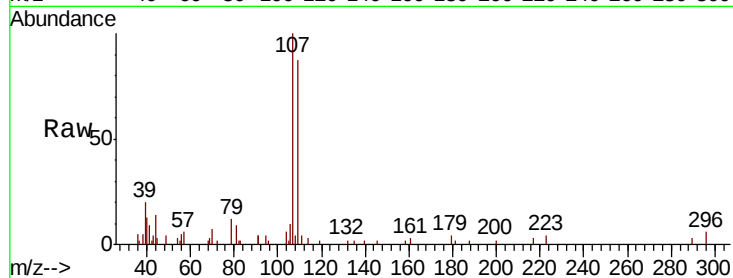




#54
 1,2-Dibromoethane
 Concen: 0.054 ppbv
 RT: 10.59 min Scan# 2427
 Delta R.T. 0.00 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

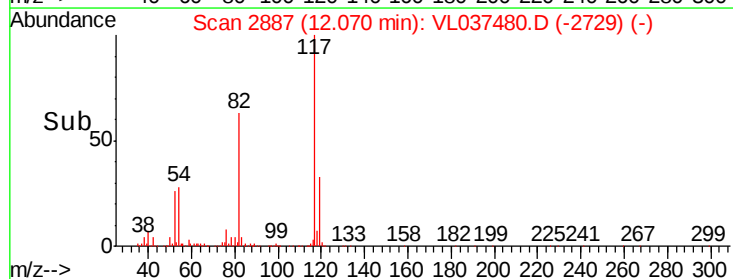
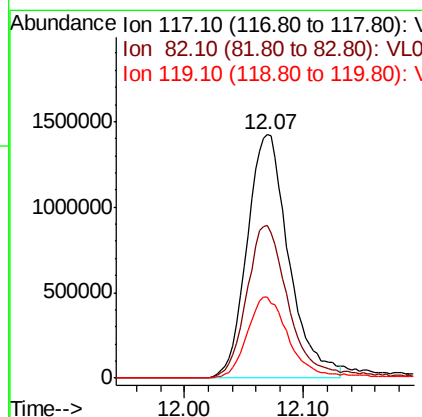
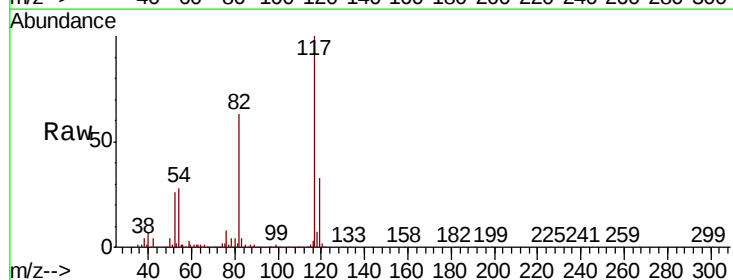
Instrument :
 MSVOA_L
 ClientSampled :

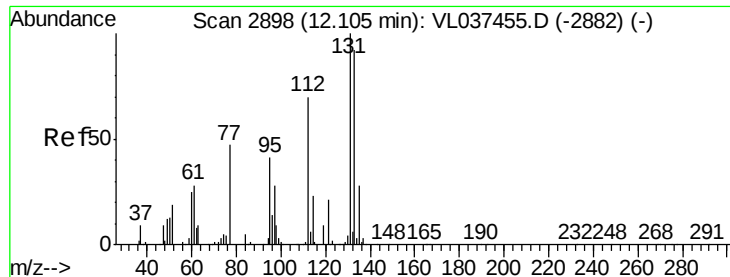
Tot Ion:107 Resp: 10673
 Ion Ratio Lower Upper
 107 100
 109 86.9 74.2 111.4



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2887
 Delta R.T. 0.01 min
 Lab File: VL037480.D
 Acq: 17 Aug 2021 3:11

Tgt Ion:117 Resp: 3449135
 Ion Ratio Lower Upper
 117 100
 82 66.1 52.9 79.3
 119 35.0 24.8 37.2





#56

1,1,1,2-Tetrachloroethane

Concen: 0.030 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampled :

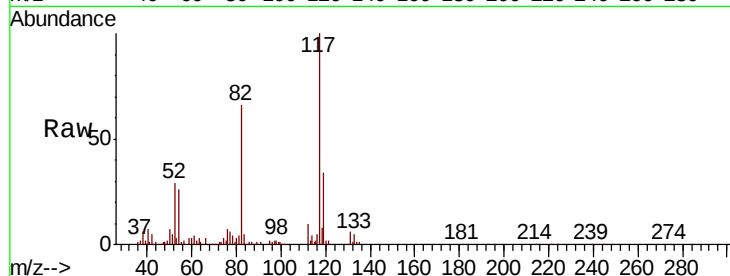
Tot Ion:131 Resp: 4377

Ion Ratio Lower Upper

131 100

133 0.0 78.7 118.1#

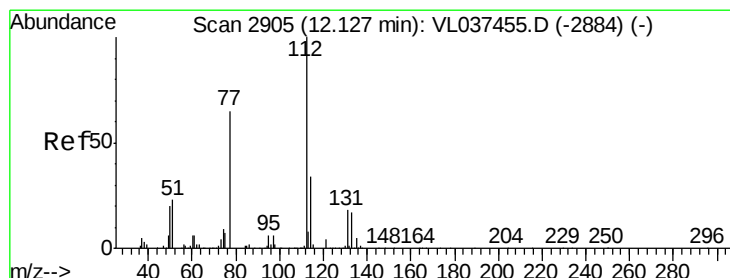
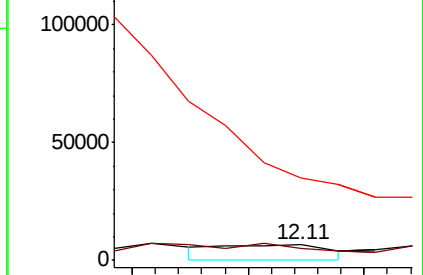
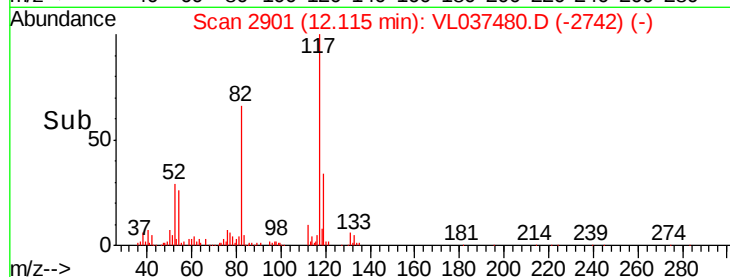
119 0.0 56.6 85.0#



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: 0.060 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

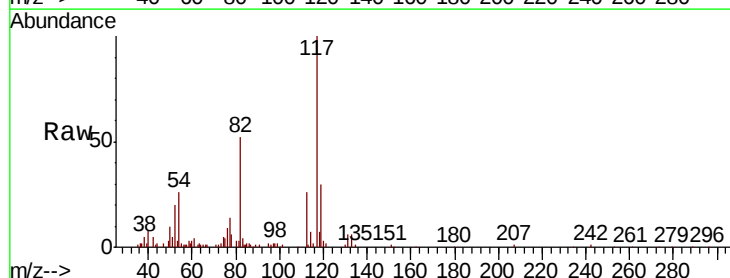
Tgt Ion:112 Resp: 17209

Ion Ratio Lower Upper

112 100

77 50.1 51.6 77.4#

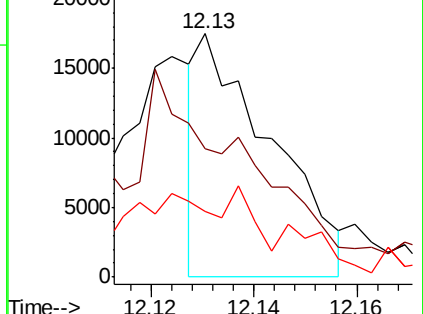
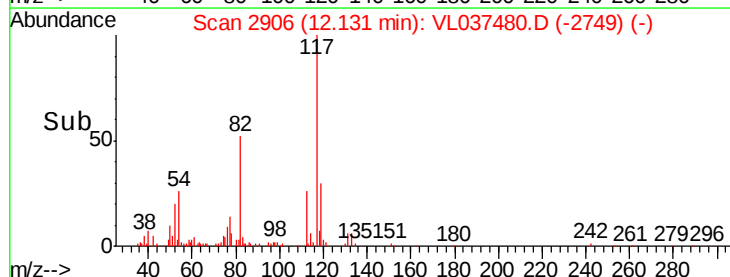
114 24.2 30.7 37.5#

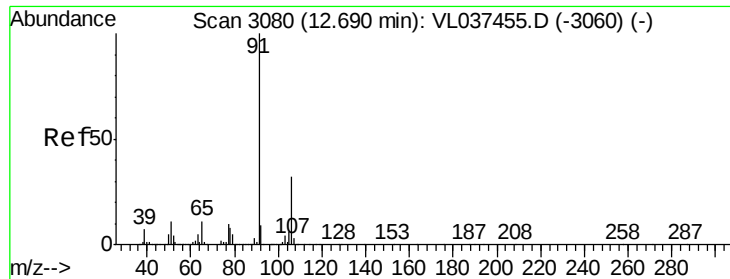


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VLO

Ion 114.10 (113.80 to 114.80): V





#58

Ethyl Benzene

Concen: 0.033 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

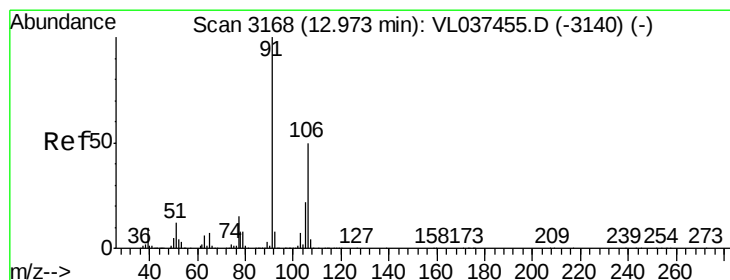
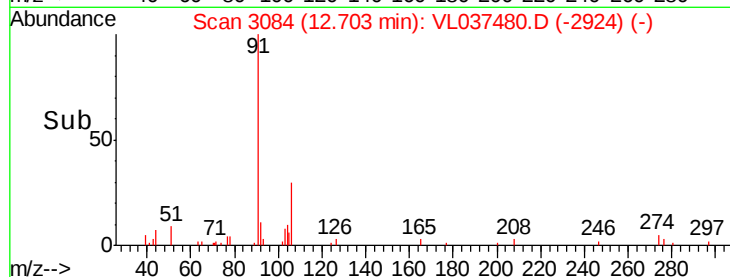
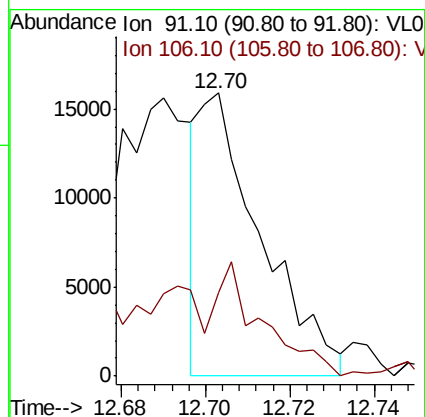
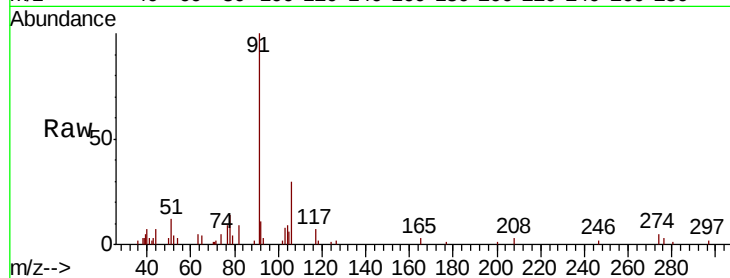
ClientSampleId :

Tot Ion: 91 Resp: 15949

Ion Ratio Lower Upper

91 100

106 32.3 25.7 38.5



#59

m/p-Xylene

Concen: 0.041 ppbv

RT: 12.98 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VL037480.D

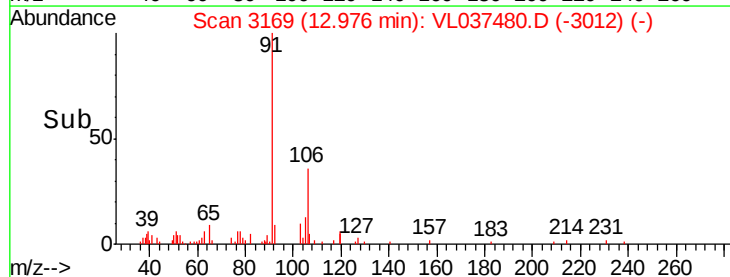
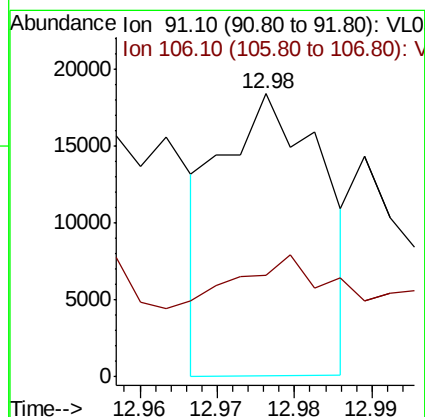
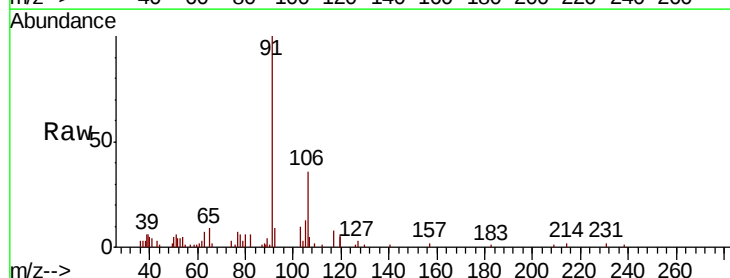
Acq: 17 Aug 2021 3:11

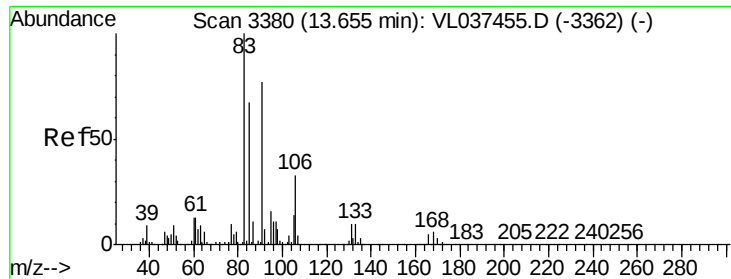
Tgt Ion: 91 Resp: 17118

Ion Ratio Lower Upper

91 100

106 171.9 36.9 55.3#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.050 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. 0.00 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

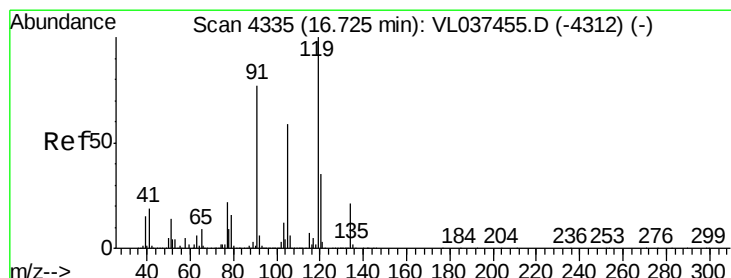
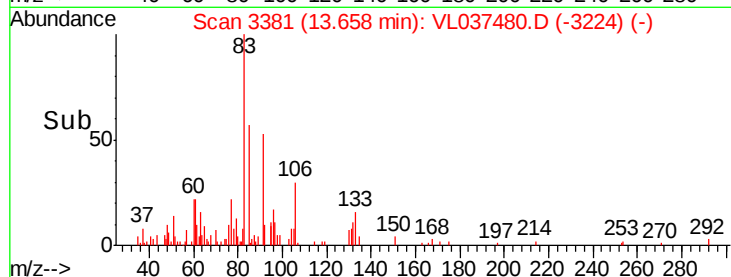
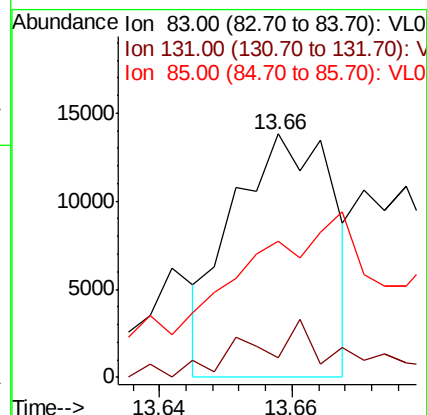
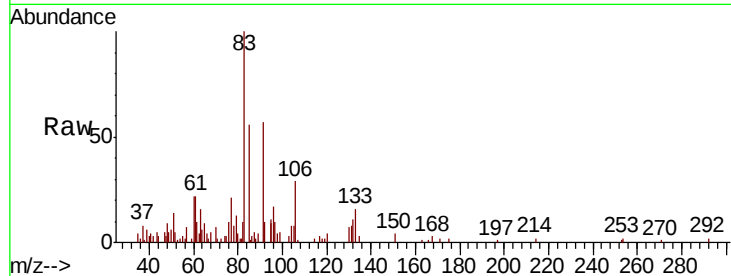
Tot Ion: 83 Resp: 14534

Ion Ratio Lower Upper

83 100

131 27.7 5.0 15.0#

85 0.0 33.8 101.3#



#65

tert-Butylbenzene

Concen: 0.036 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

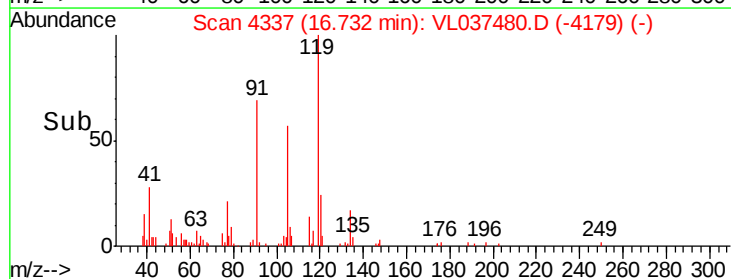
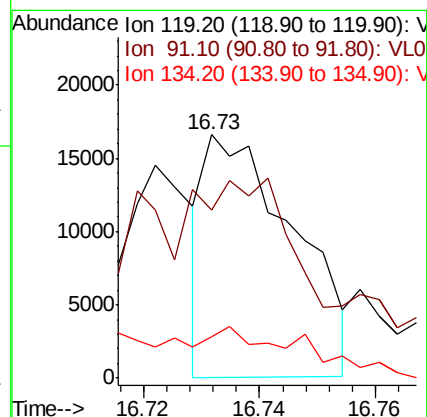
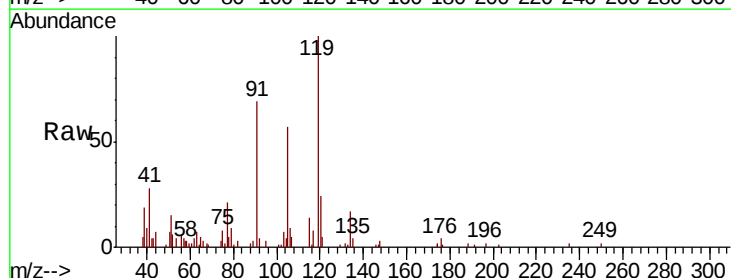
Tgt Ion: 119 Resp: 17753

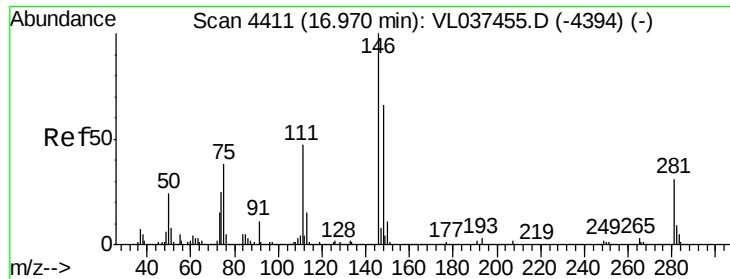
Ion Ratio Lower Upper

119 100

91 223.7 62.9 94.3#

134 48.4 16.4 24.6#

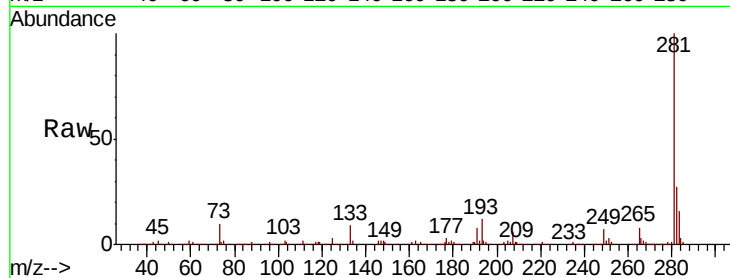




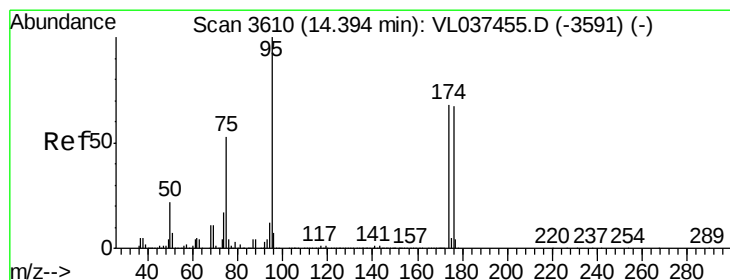
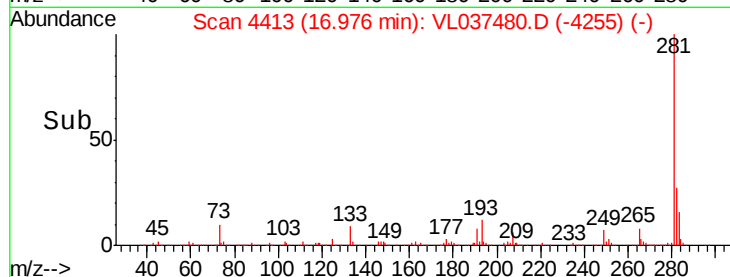
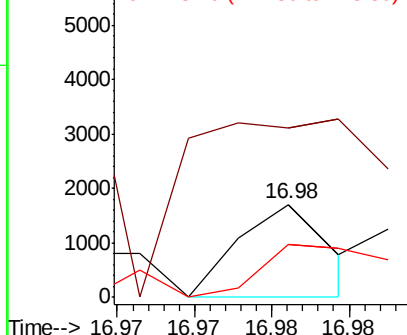
#66
Benzvl Chloride
Concen: 0.031 ppbv
RT: 16.98 min Scan# 4413
Delta R.T. 0.01 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 695
Ion Ratio Lower Upper
91 100
126 0.0 15.9 23.9#
128 90.4 5.4 8.0#

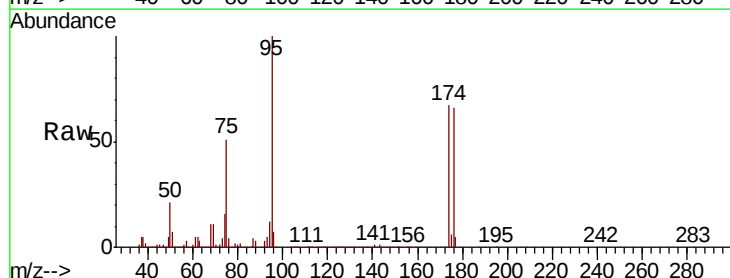


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

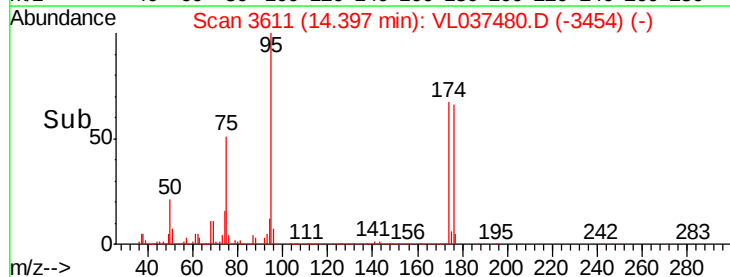
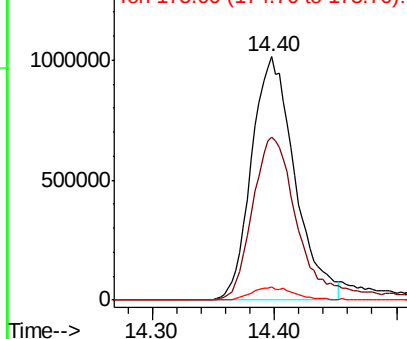


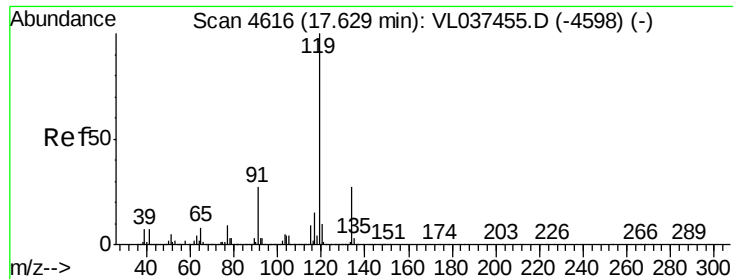
#68
1-Bromo-4-Fluorobenzene
Concen: 10.135 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Tgt Ion: 95 Resp: 2483550
Ion Ratio Lower Upper
95 100
174 75.1 59.6 89.4
175 5.3 4.6 7.0



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

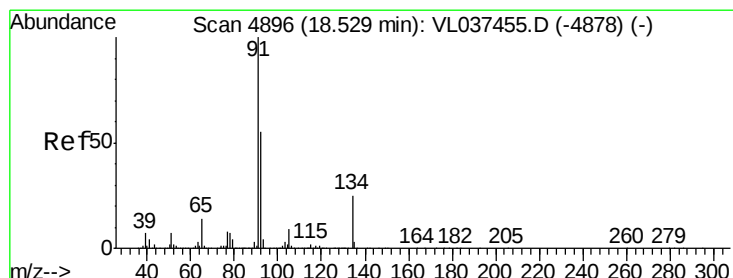
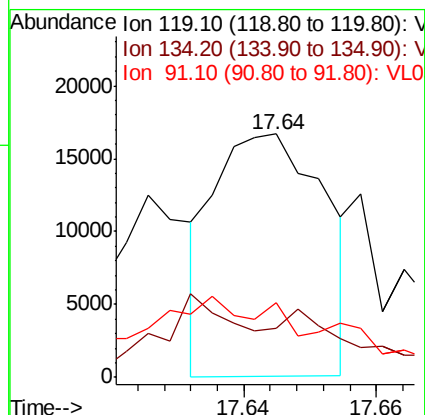
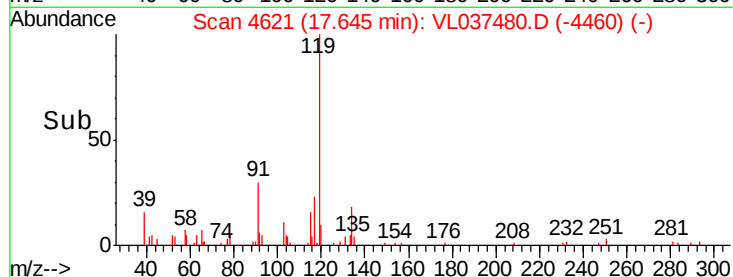
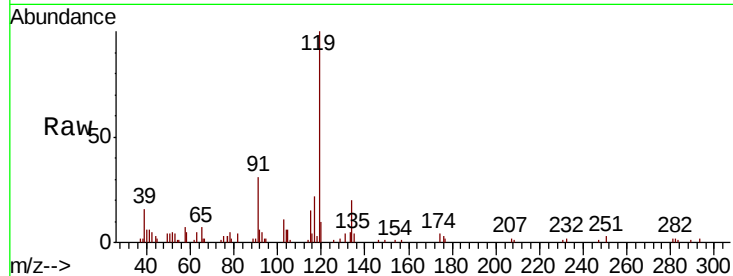




#69
p-Isopropyltoluene
Concen: 0.034 ppbv
RT: 17.64 min Scan# 4621
Delta R.T. 0.02 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

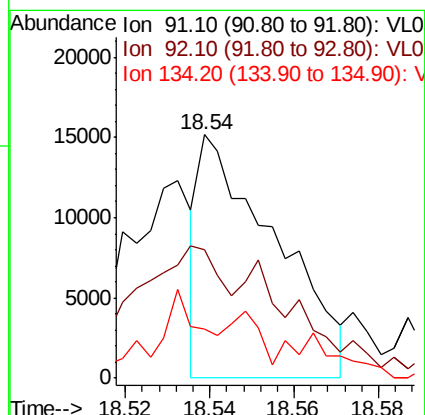
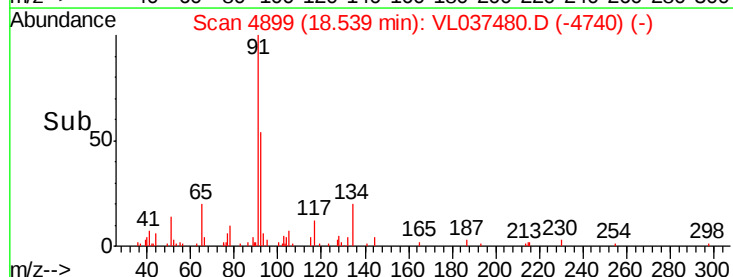
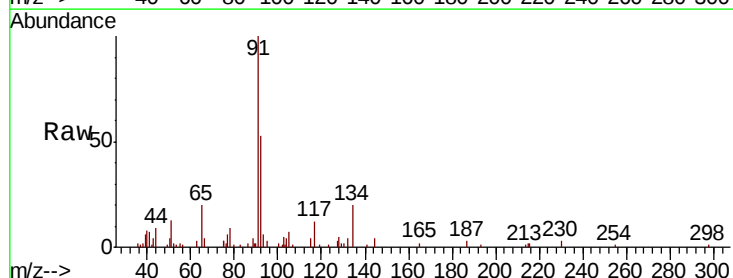
Instrument :
MSVOA_L
ClientSampleId :

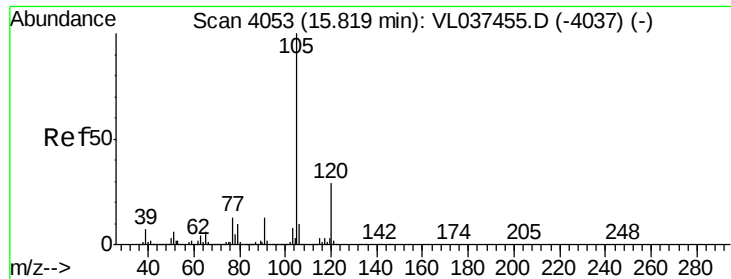
Tot Ion: 119 Resp: 19249
Ion Ratio Lower Upper
119 100
134 0.0 21.1 31.7#
91 0.0 22.4 33.6#



#70
n-Butylbenzene
Concen: 0.035 ppbv
RT: 18.54 min Scan# 4899
Delta R.T. 0.01 min
Lab File: VL037480.D
Acq: 17 Aug 2021 3:11

Tgt Ion: 91 Resp: 19144
Ion Ratio Lower Upper
91 100
92 0.0 44.0 66.0#
134 0.0 19.5 29.3#





#72

4-Ethyltoluene

Concen: 0.043 ppbv

RT: 15.82 min Scan# 4055

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 19615

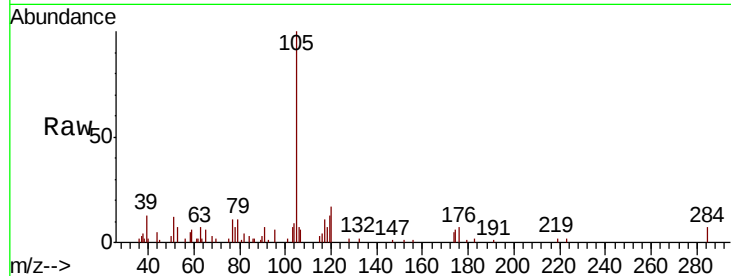
Ion Ratio Lower Upper

105 100

120 56.3 24.7 37.1#

91 0.0 9.8 14.8#

77 33.2 10.6 15.8#

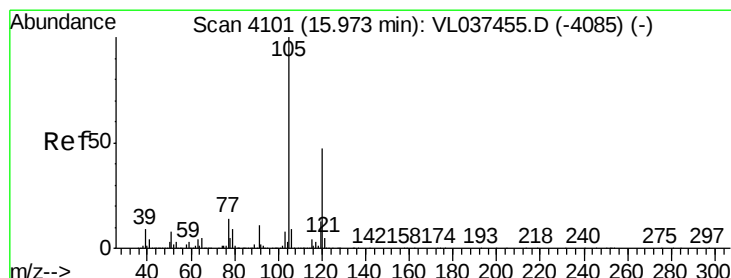
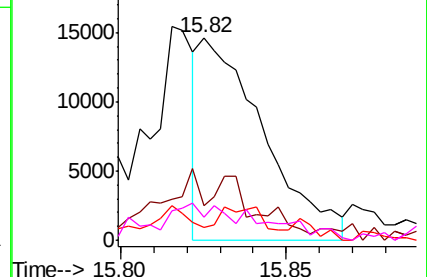
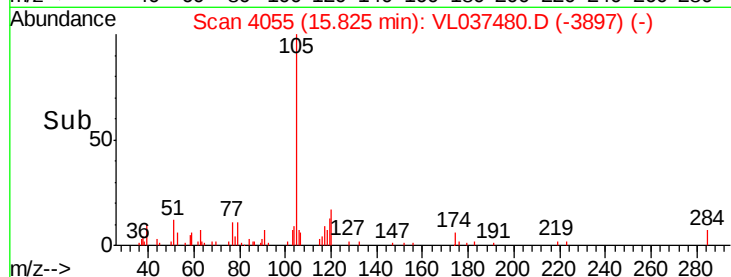


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.035 ppbv

RT: 15.98 min Scan# 4103

Delta R.T. 0.01 min

Lab File: VL037480.D

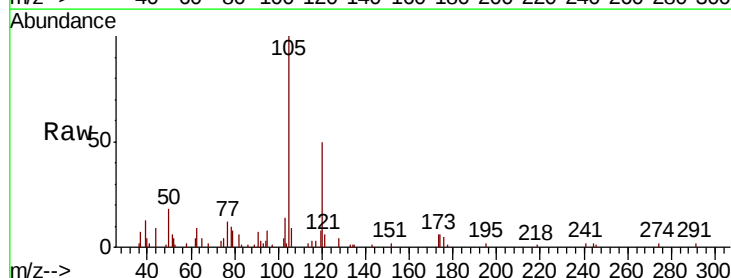
Acq: 17 Aug 2021 3:11

Tgt Ion:105 Resp: 15100

Ion Ratio Lower Upper

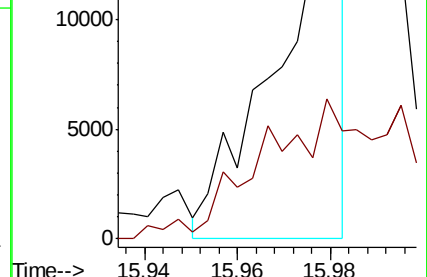
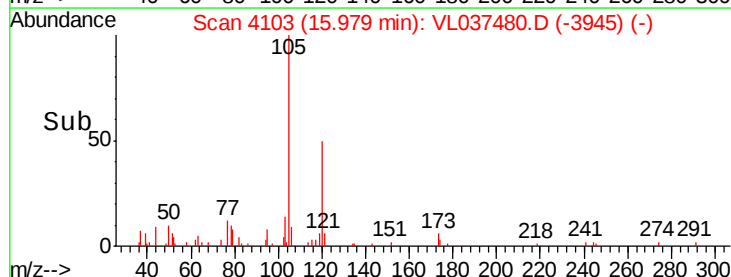
105 100

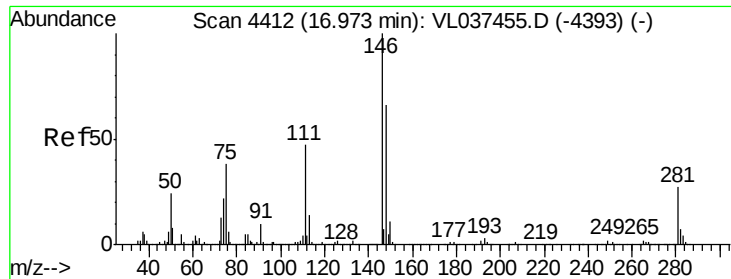
120 50.9 37.6 56.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#75

1,3-Dichlorobenzene

Concen: 0.045 ppbv

RT: 16.98 min Scan# 4415

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampled :

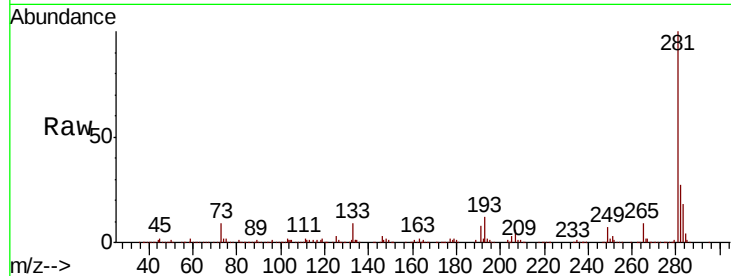
Tot Ion:146 Resp: 12228

Ion Ratio Lower Upper

146 100

111 0.0 23.4 70.0#

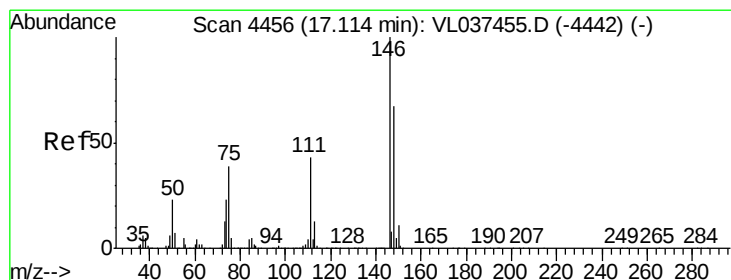
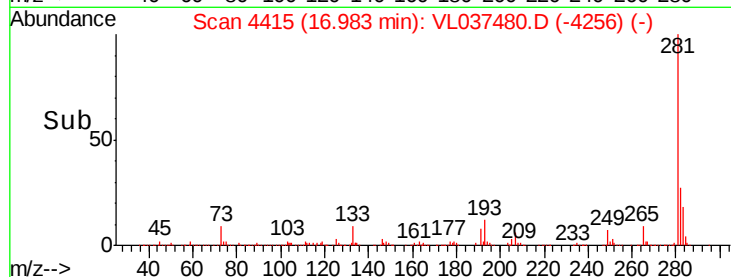
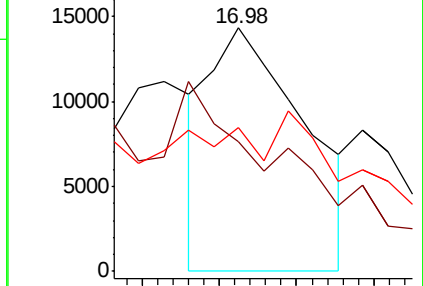
148 220.4 33.1 99.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.045 ppbv

RT: 17.12 min Scan# 4459

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

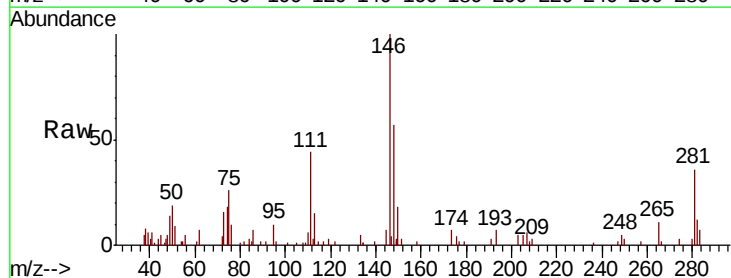
Tgt Ion:146 Resp: 12328

Ion Ratio Lower Upper

146 100

111 113.9 22.1 66.5#

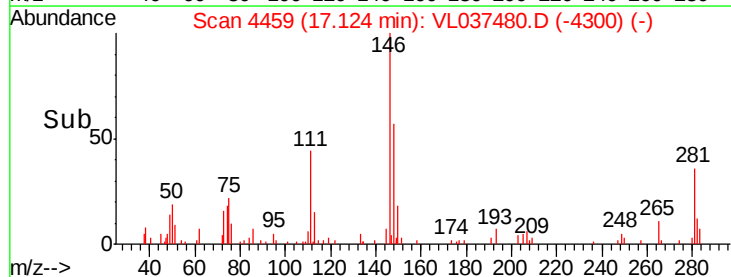
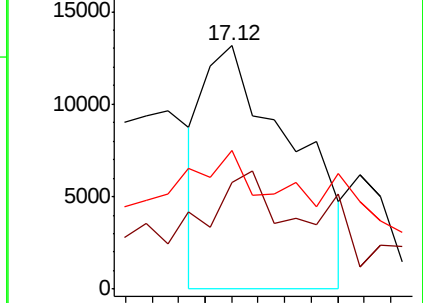
148 153.9 32.4 97.0#

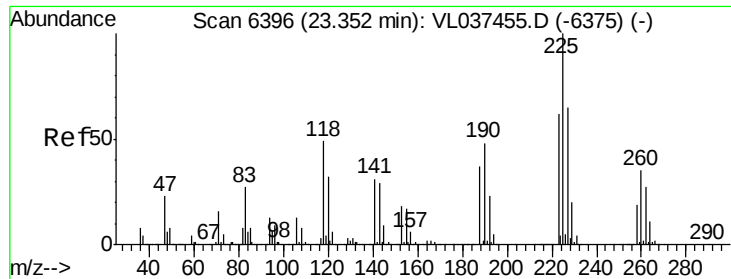


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.056 ppbv

RT: 23.36 min Scan# 6398

Delta R.T. 0.01 min

Lab File: VL037480.D

Acq: 17 Aug 2021 3:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:225 Resp: 12527

Ion Ratio Lower Upper

225 100

223 147.2 51.4 77.0#

227 0.0 52.9 79.3#

