

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037793.D
 Acq On : 6 Oct 2021 3:45
 Operator : SY/AP
 Sample : M4012-16DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P11DL

Quant Time: Oct 06 04:50:34 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1169426	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3489439	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2979758	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	2022050	9.70	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%	

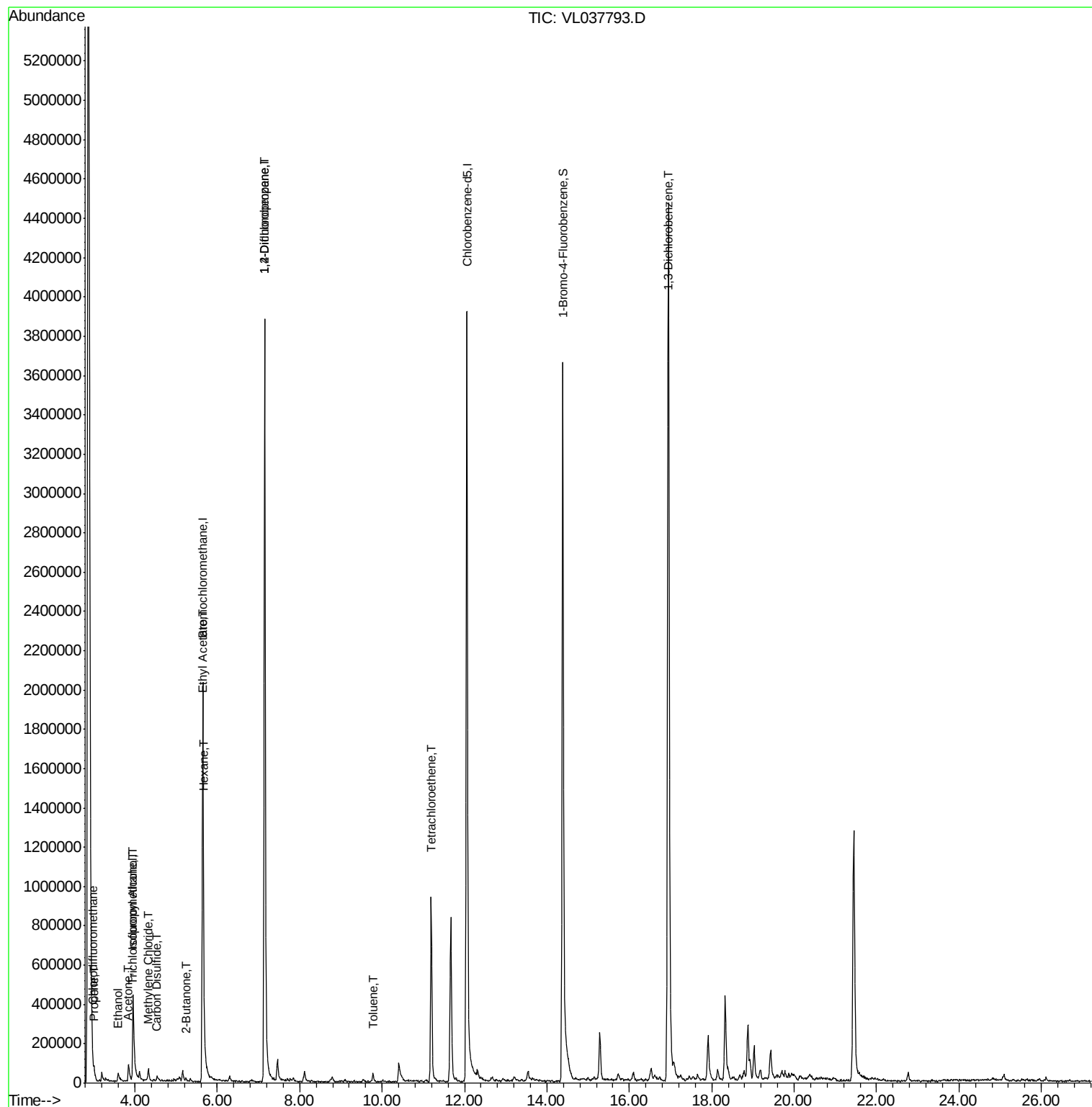
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.98	51	7882	0.035	ppbv #	68
9) Propene	3.00	41	4708	0.057	ppbv #	16
11) Trichlorofluoromethane	3.93	101	4063	0.024	ppbv #	72
13) Ethanol	3.59	45	43940	6.499	ppbv	97
15) Acetone	3.84	43	39389	0.375	ppbv #	1
19) Isopropyl Alcohol	3.95	45	643457	9.852	ppbv #	96
20) Methylene Chloride	4.33	84	23195	0.437	ppbv #	74
25) Ethyl Acetate	5.66	43	12430	0.042	ppbv #	67
26) Hexane	5.67	57	11899	0.082	ppbv #	44
27) Carbon Disulfide	4.54	76	18944	0.147	ppbv #	64
34) 2-Butanone	5.23	43	6265	0.044	ppbv #	53
39) 1,2-Dichloropropane	7.15	63	829897	7.403	ppbv #	27
52) Tetrachloroethene	11.19	164	247967	2.138	ppbv	94
53) Toluene	9.78	91	17570	0.053	ppbv #	28
75) 1,3-Dichlorobenzene	16.95	146	9809	0.044	ppbv #	23

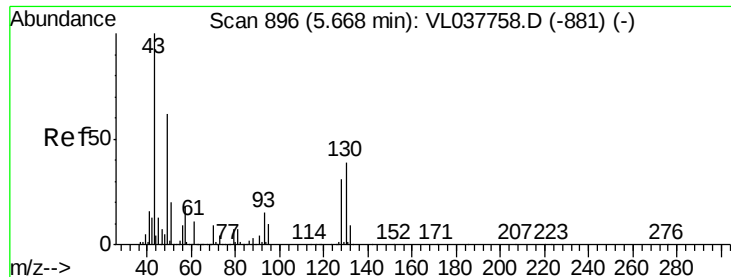
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL037793.D

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Instrument :

MSVOA_L

ClientSampleId :

C0P11DL

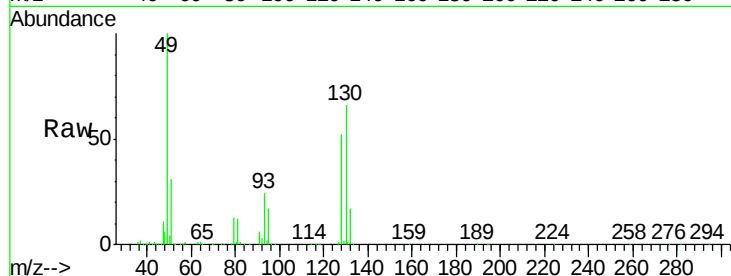
Tgt Ion: 49 Resp: 1169426

Ion Ratio Lower Upper

49 100

128 54.0 27.1 81.3

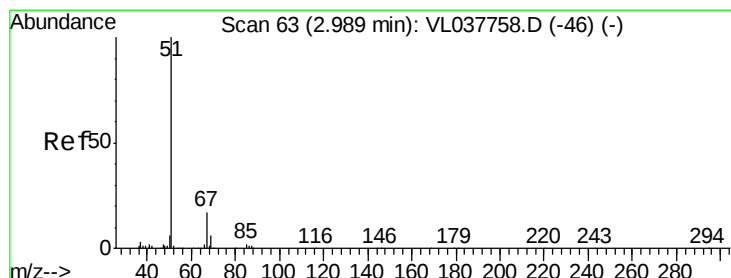
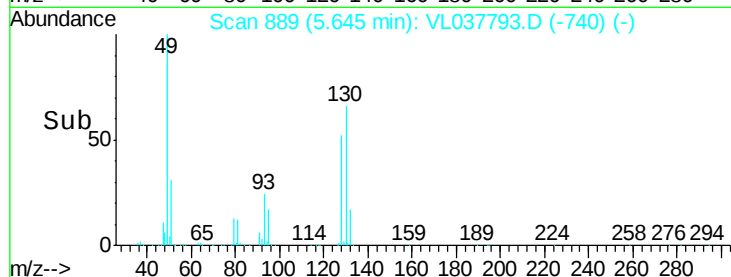
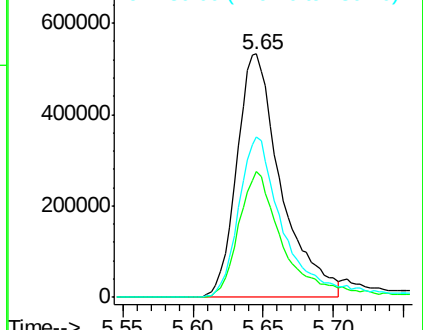
130 69.3 33.2 99.6



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



#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037793.D

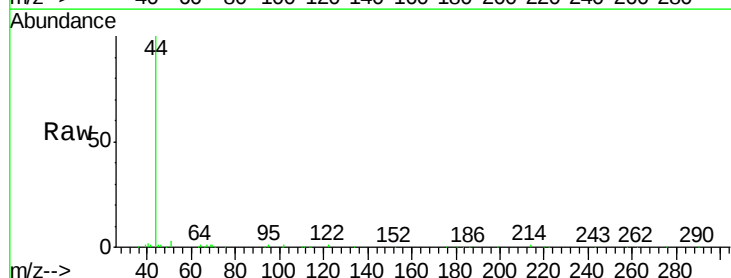
Acq: 6 Oct 2021 3:45

Tgt Ion: 51 Resp: 7882

Ion Ratio Lower Upper

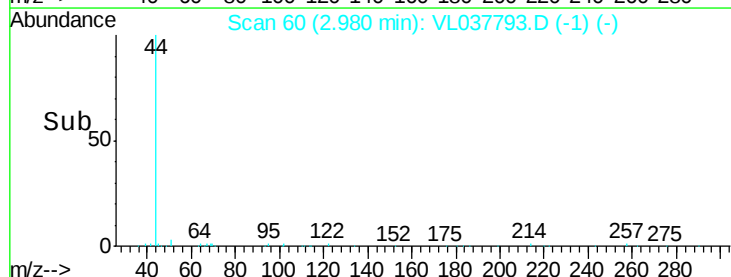
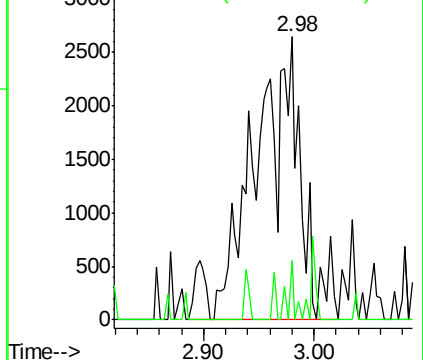
51 100

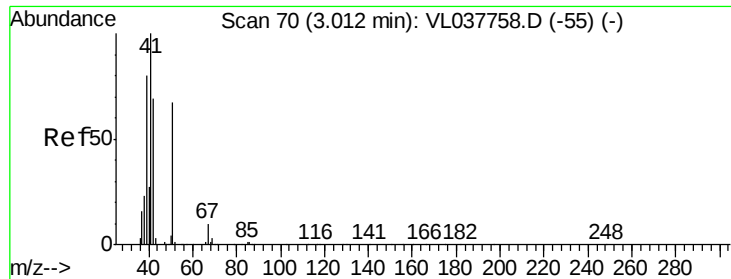
67 3.2 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.057 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Instrument :

MSVOA_L

ClientSampleId :

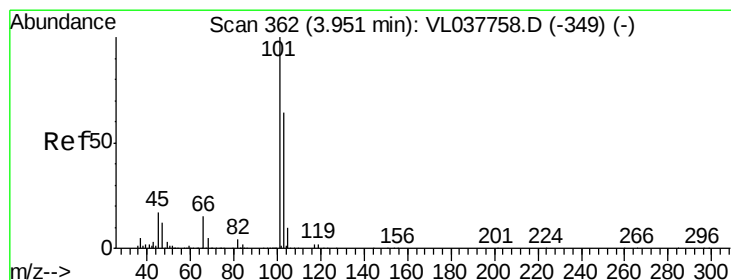
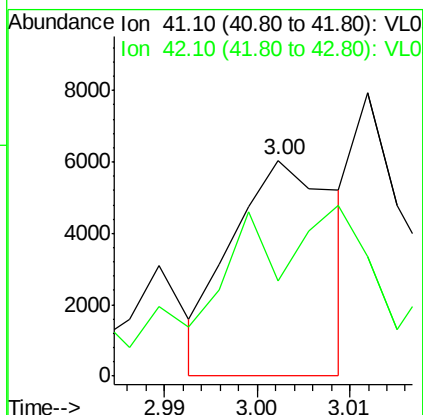
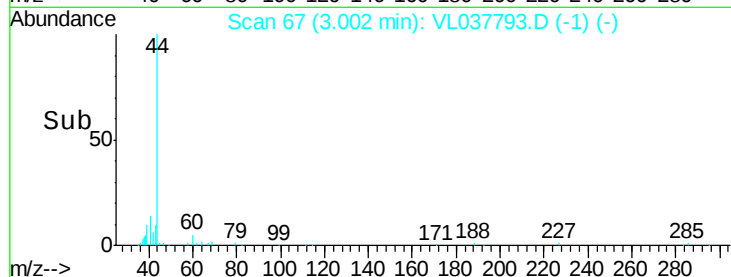
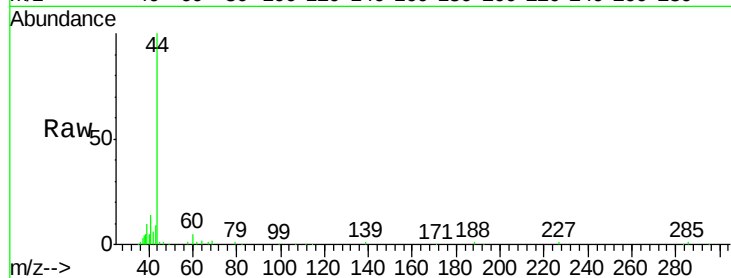
C0P11DL

Tgt Ion: 41 Resp: 4708

Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.2#



#11

Trichlorofluoromethane

Concen: 0.024 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.02 min

Lab File: VL037793.D

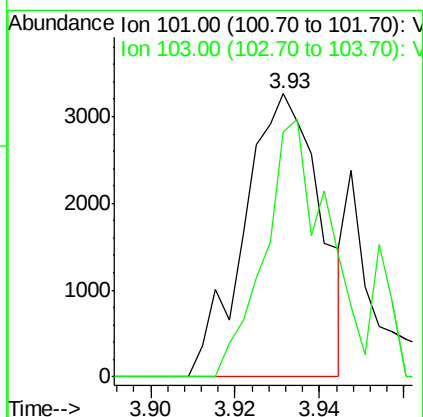
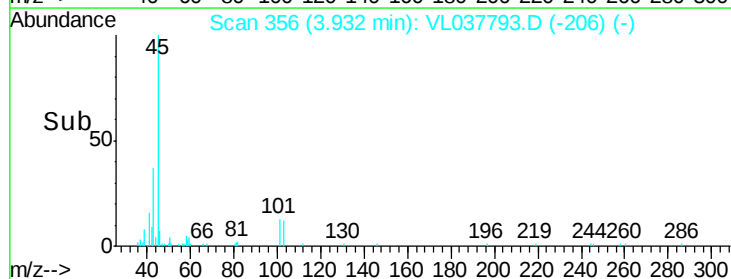
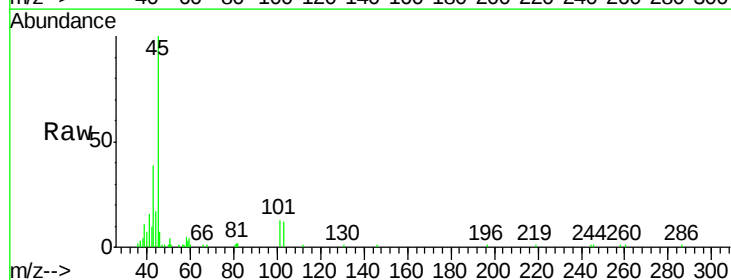
Acq: 6 Oct 2021 3:45

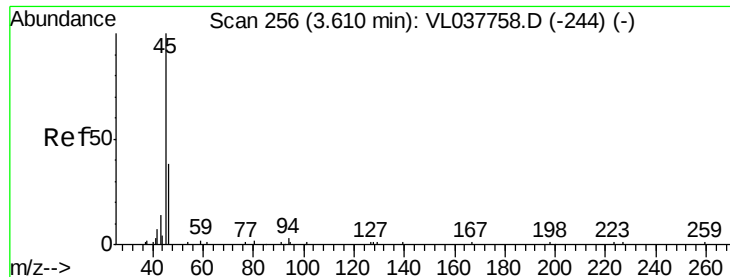
Tgt Ion: 101 Resp: 4063

Ion Ratio Lower Upper

101 100

103 86.8 51.5 77.3#





#13

Ethanol

Concen: 6.499 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.02 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Instrument :

MSVOA_L

ClientSampleId :

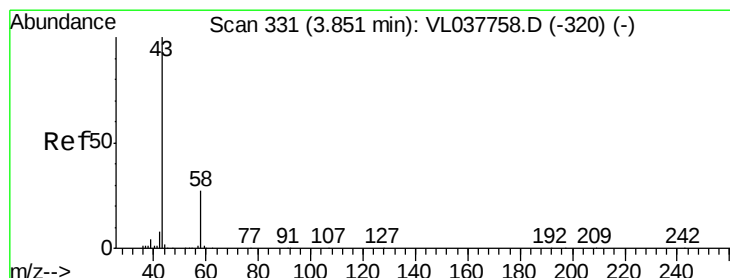
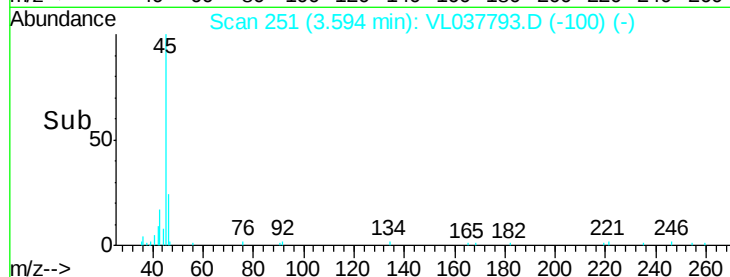
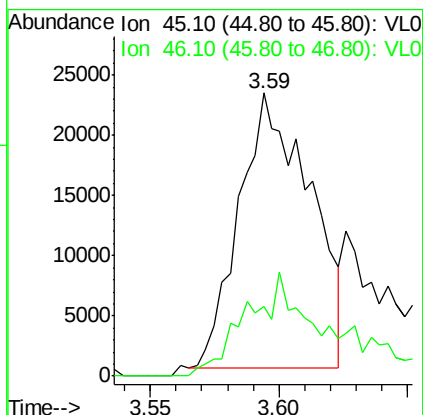
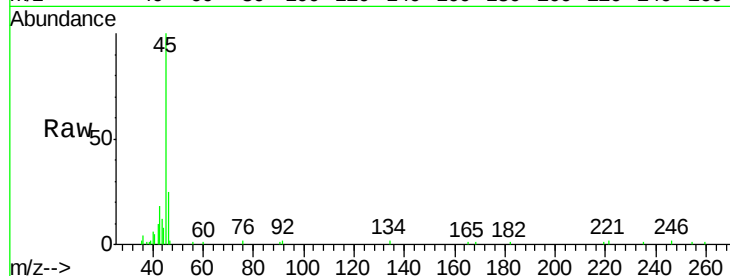
C0P11DL

Tgt Ion: 45 Resp: 43940

Ion Ratio Lower Upper

45 100

46 48.6 20.2 81.0



#15

Acetone

Concen: 0.375 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL037793.D

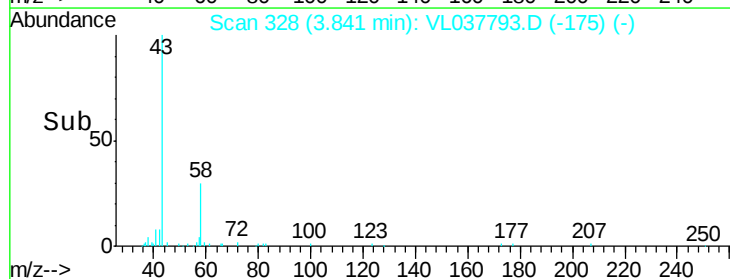
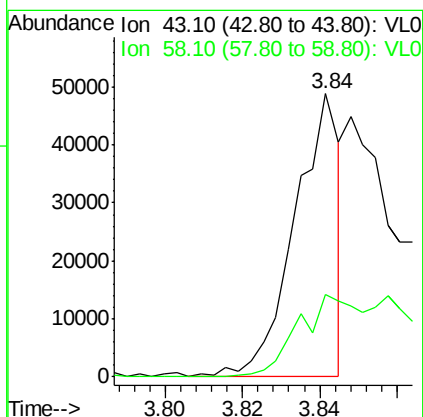
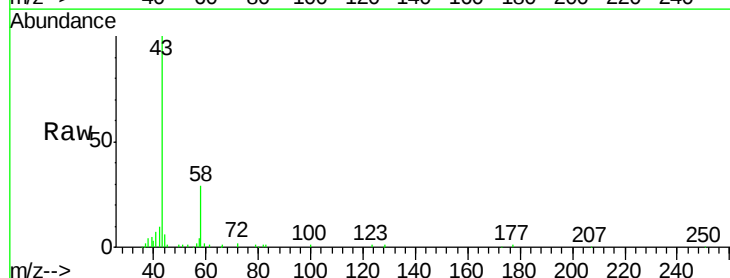
Acq: 6 Oct 2021 3:45

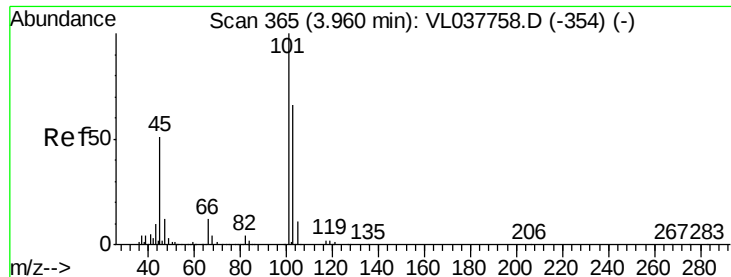
Tgt Ion: 43 Resp: 39389

Ion Ratio Lower Upper

43 100

58 95.3 23.0 34.6#





#19

Isopropyl Alcohol

Concen: 9.852 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Instrument :

MSVOA_L

ClientSampleId :

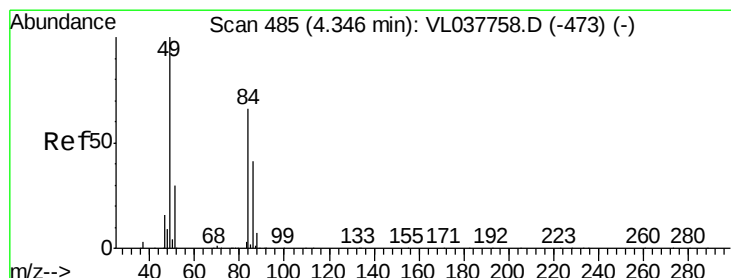
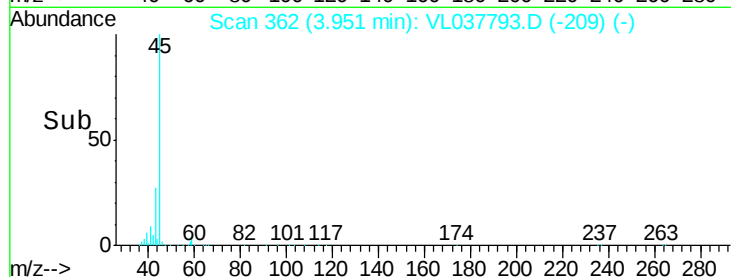
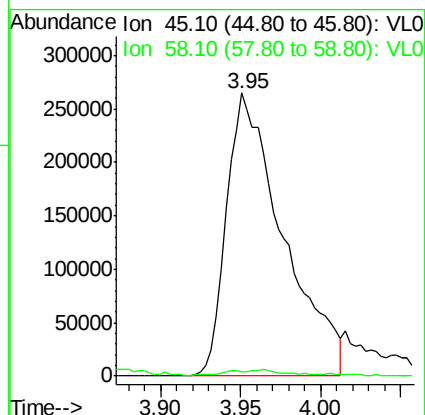
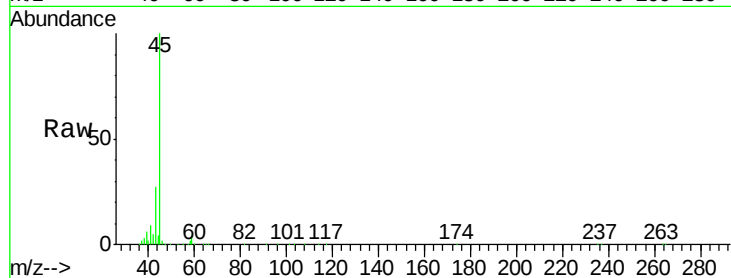
C0P11DL

Tgt Ion: 45 Resp: 643457

Ion Ratio Lower Upper

45 100

58 3.0 1.1 1.7#



#20

Methylene Chloride

Concen: 0.437 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Tgt Ion: 84 Resp: 23195

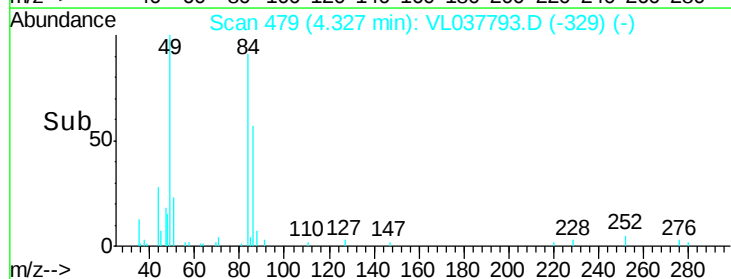
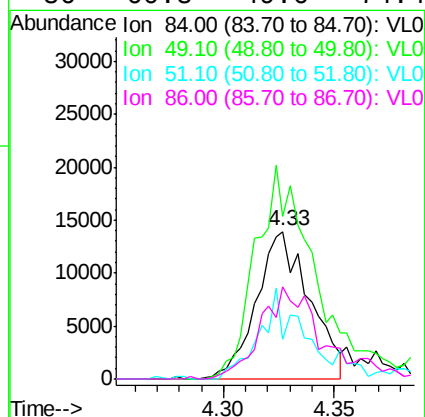
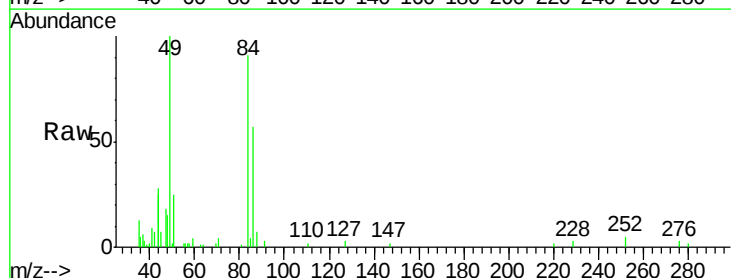
Ion Ratio Lower Upper

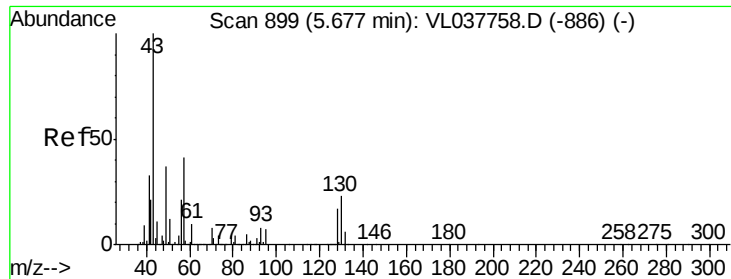
84 100

49 106.2 120.7 181.1#

51 27.3 36.2 54.4#

86 60.8 49.6 74.4





#25

Ethyl Acetate

Concen: 0.042 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Instrument :

MSVOA_L

ClientSampleId :

C0P11DL

Tgt Ion: 43 Resp: 12430

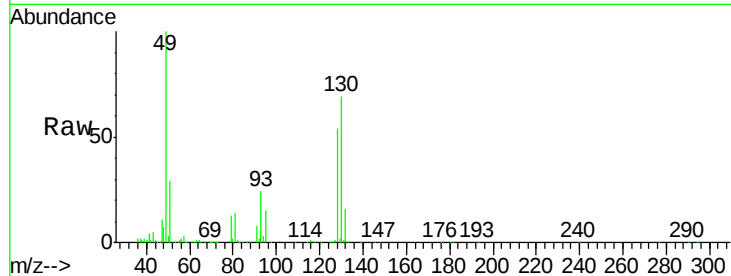
Ion Ratio Lower Upper

43 100

45 27.8 8.1 12.1#

61 0.0 7.5 11.3#

70 0.0 5.9 8.9#

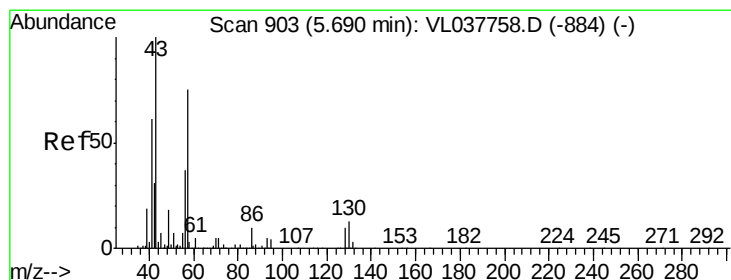
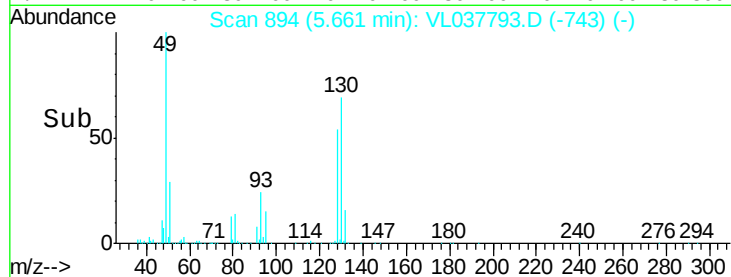
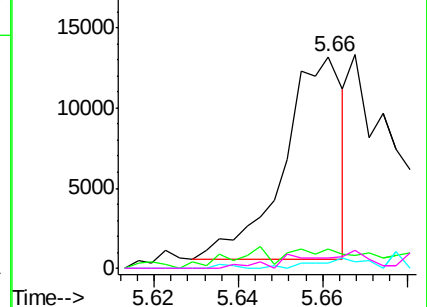


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.082 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Tgt Ion: 57 Resp: 11899

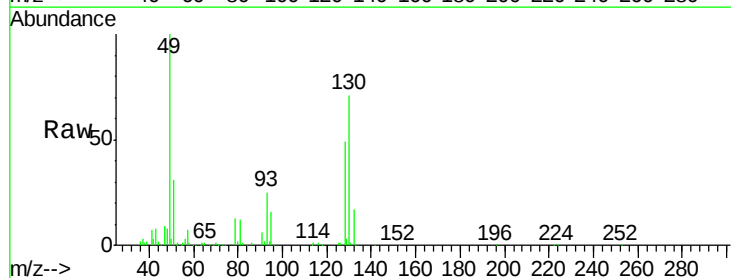
Ion Ratio Lower Upper

57 100

41 191.2 69.6 104.4#

43 254.7 171.4 257.0

56 112.2 42.0 63.0#

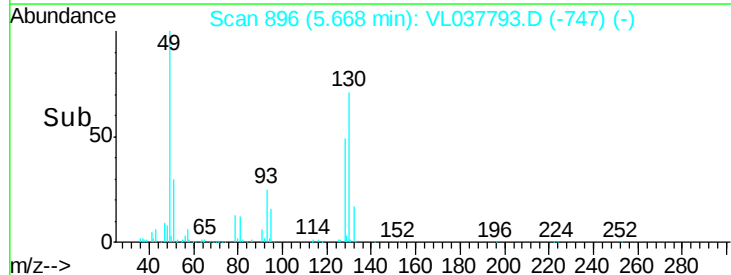
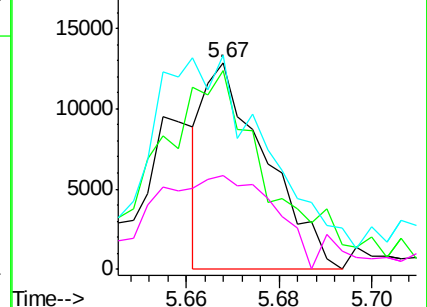


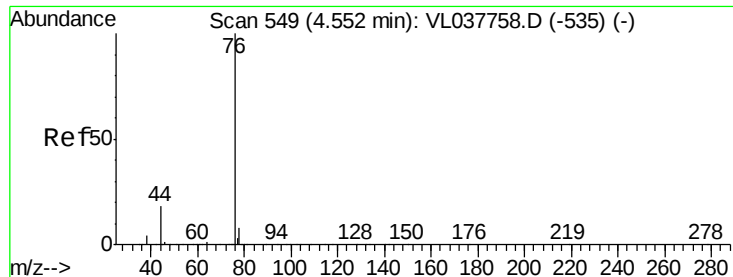
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.147 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.02 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Instrument :

MSVOA_L

ClientSampleId :

C0P11DL

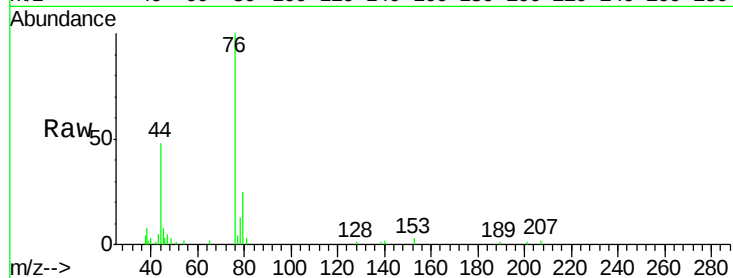
Tgt Ion: 76 Resp: 18944

Ion Ratio Lower Upper

76 100

44 0.0 14.3 21.5#

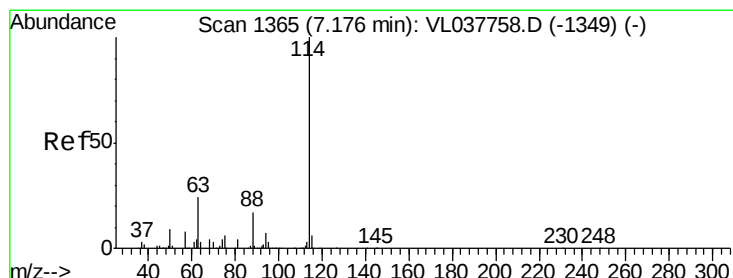
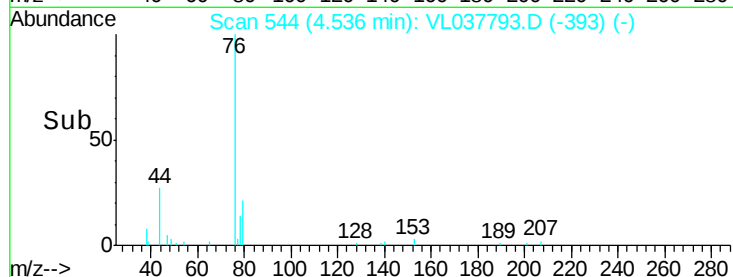
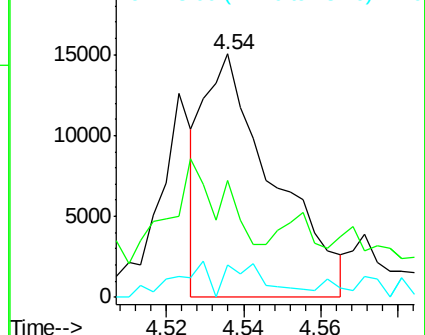
78 0.0 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.03 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

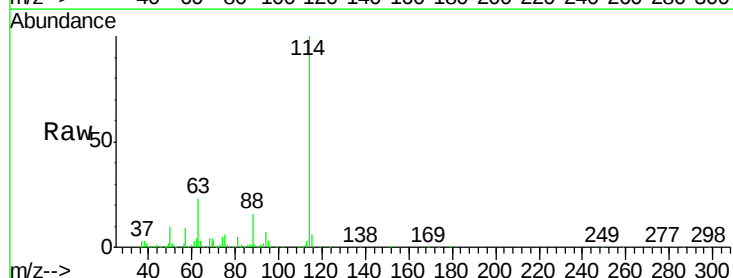
Tgt Ion: 114 Resp: 3489439

Ion Ratio Lower Upper

114 100

63 24.4 19.4 29.2

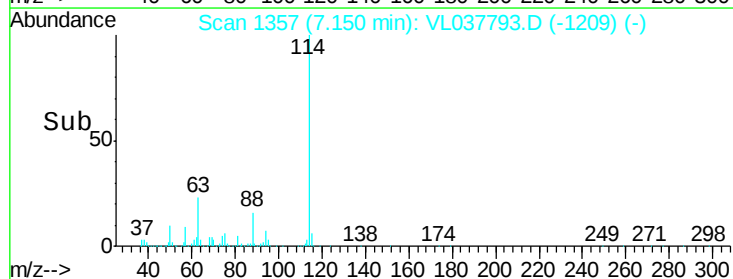
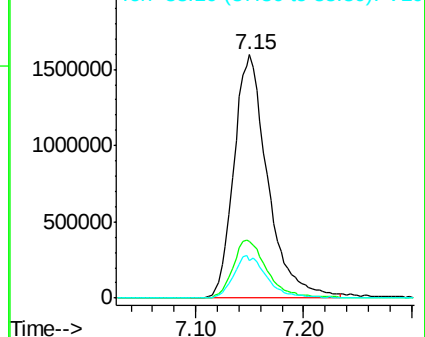
88 17.4 14.4 21.6

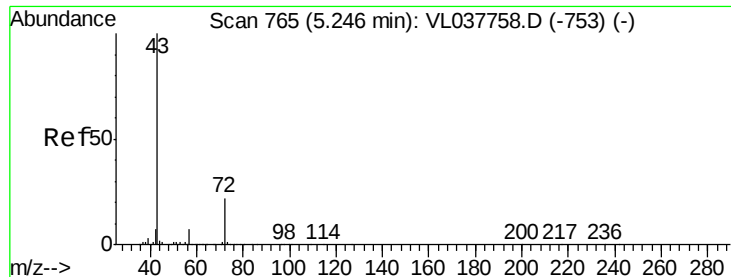


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

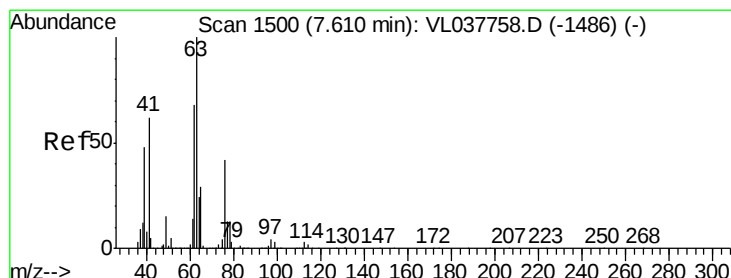
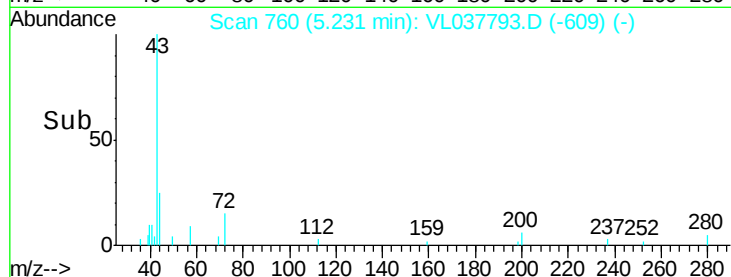
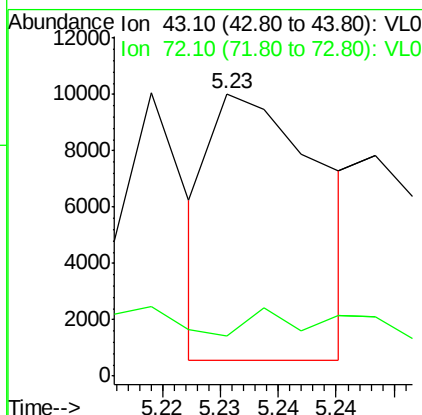
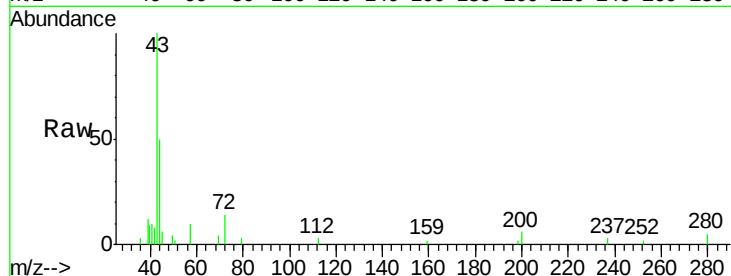




#34
2-Butanone
Concen: 0.044 ppbv
RT: 5.23 min Scan# 760
Delta R.T. -0.02 min
Lab File: VL037793.D
Acq: 6 Oct 2021 3:45

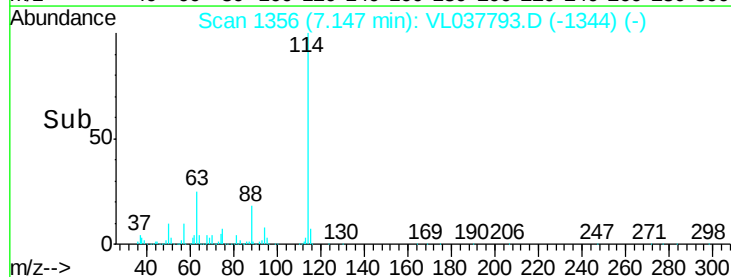
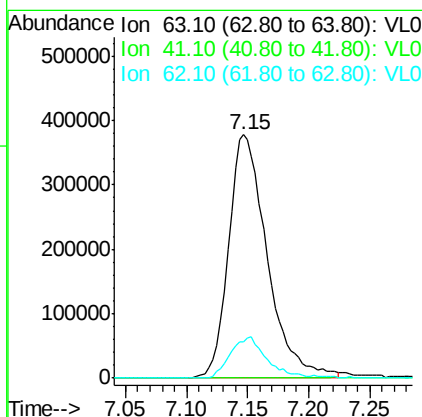
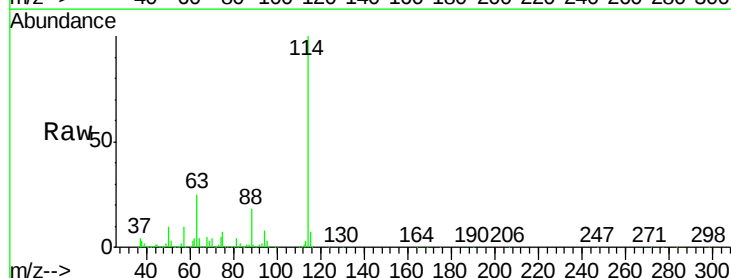
Instrument :
MSVOA_L
ClientSampleId :
C0P11DL

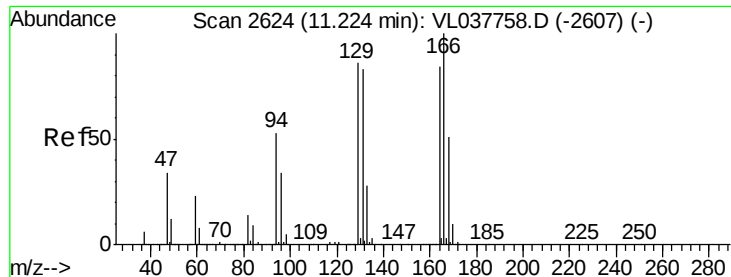
Tgt Ion: 43 Resp: 6265
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#39
1,2-Dichloropropane
Concen: 7.403 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.46 min
Lab File: VL037793.D
Acq: 6 Oct 2021 3:45

Tgt Ion: 63 Resp: 829897
Ion Ratio Lower Upper
63 100
41 0.0 49.8 74.6#
62 14.9 54.6 82.0#





#52

Tetrachloroethene

Concen: 2.138 ppbv

RT: 11.19 min Scan# 2614

Delta R.T. -0.03 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Instrument :

MSVOA_L

ClientSampleId :

C0P11DL

Tgt Ion:164 Resp: 247967

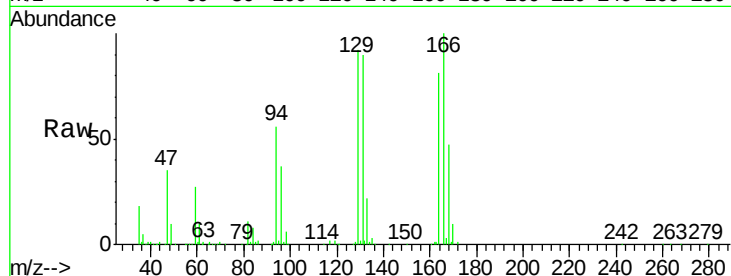
Ion Ratio Lower Upper

164 100

166 120.3 95.4 143.2

129 111.6 82.2 123.4

131 109.1 79.4 119.2

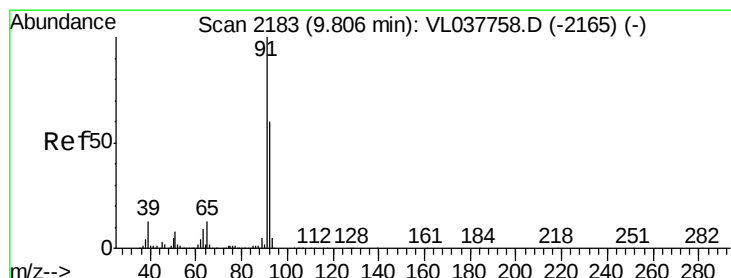
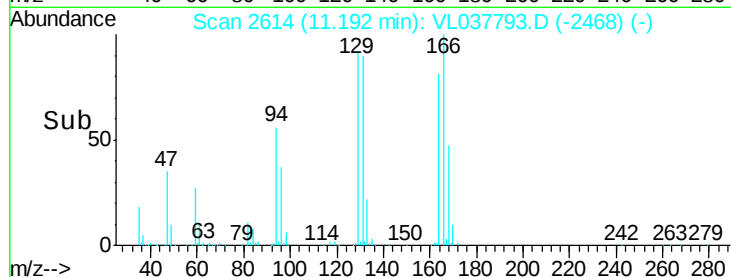
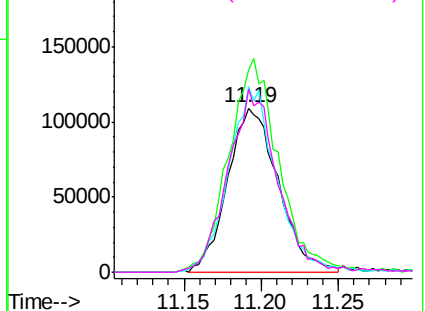


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.053 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.03 min

Lab File: VL037793.D

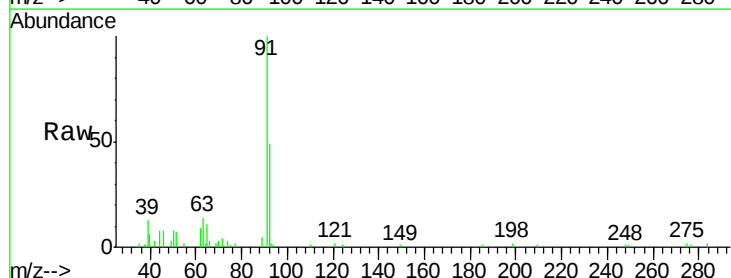
Acq: 6 Oct 2021 3:45

Tgt Ion: 91 Resp: 17570

Ion Ratio Lower Upper

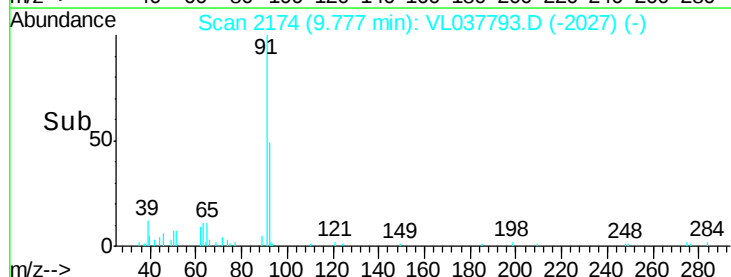
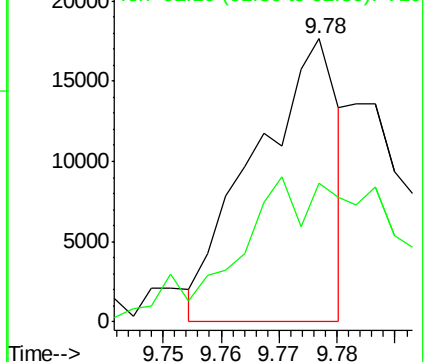
91 100

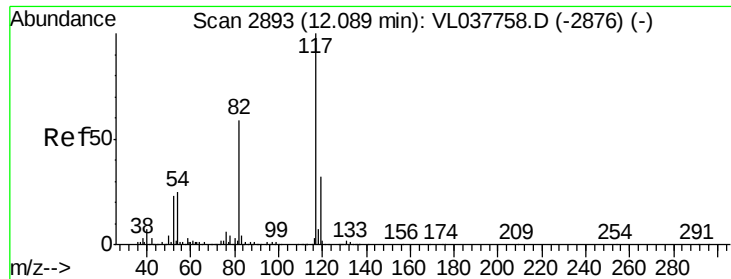
92 115.4 48.4 72.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

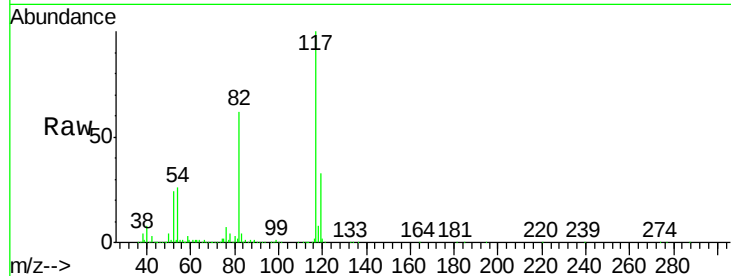




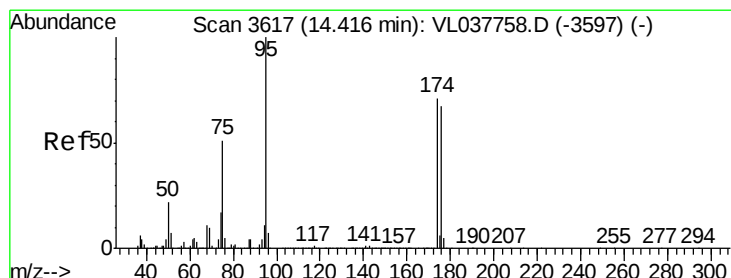
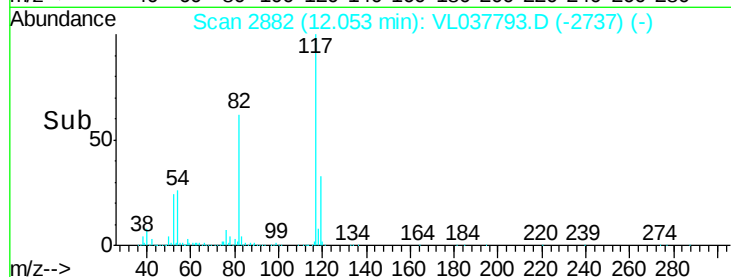
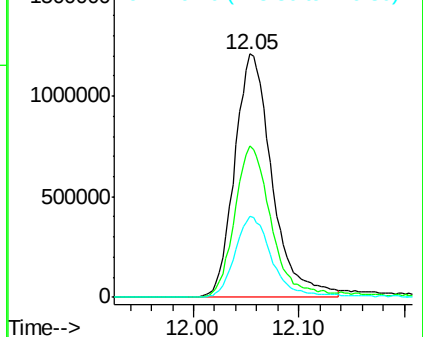
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2882
Delta R.T. -0.04 min
Lab File: VL037793.D
Acq: 6 Oct 2021 3:45

Instrument :
MSVOA_L
ClientSampleId :
C0P11DL

Tgt Ion: 117 Resp: 2979758
Ion Ratio Lower Upper
117 100
82 64.1 52.2 78.2
119 34.1 26.0 39.0

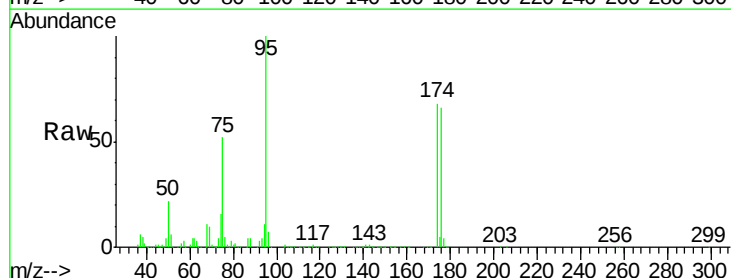


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

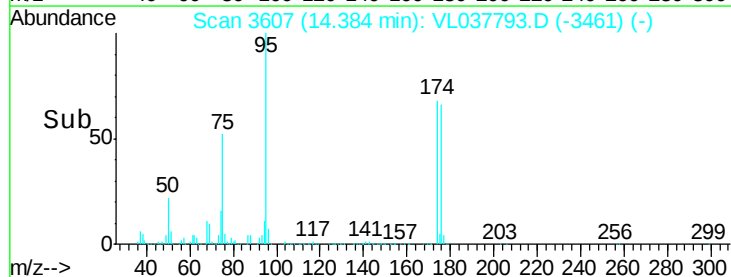
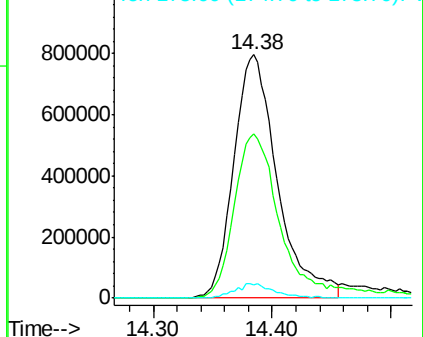


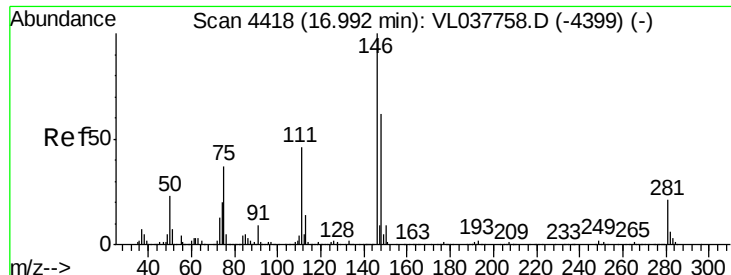
#68
1-Bromo-4-Fluorobenzene
Concen: 9.704 ppbv
RT: 14.38 min Scan# 3607
Delta R.T. -0.03 min
Lab File: VL037793.D
Acq: 6 Oct 2021 3:45

Tgt Ion: 95 Resp: 2022050
Ion Ratio Lower Upper
95 100
174 75.5 57.8 86.6
175 5.5 4.7 7.1



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





#75

1,3-Dichlorobenzene

Concen: 0.044 ppbv

RT: 16.95 min Scan# 4405

Delta R.T. -0.04 min

Lab File: VL037793.D

Acq: 6 Oct 2021 3:45

Instrument :

MSVOA_L

ClientSampleId :

C0P11DL

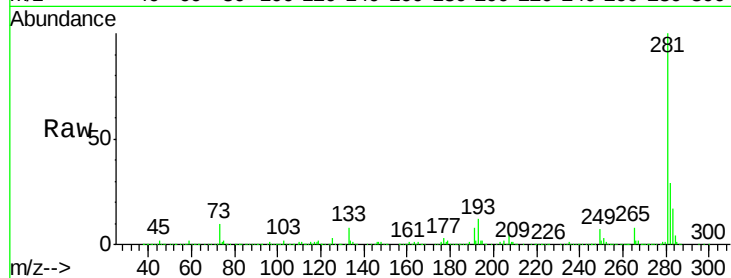
Tgt Ion:146 Resp: 9809

Ion Ratio Lower Upper

146 100

111 0.0 22.8 68.4#

148 0.0 32.8 98.3#



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

