

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035810.D
 Acq On : 3 Nov 2020 19:23
 Operator : SY/AP
 Sample : L4604-05DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 04 05:15:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1116560	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	5092417	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4656736	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3248373	9.82	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

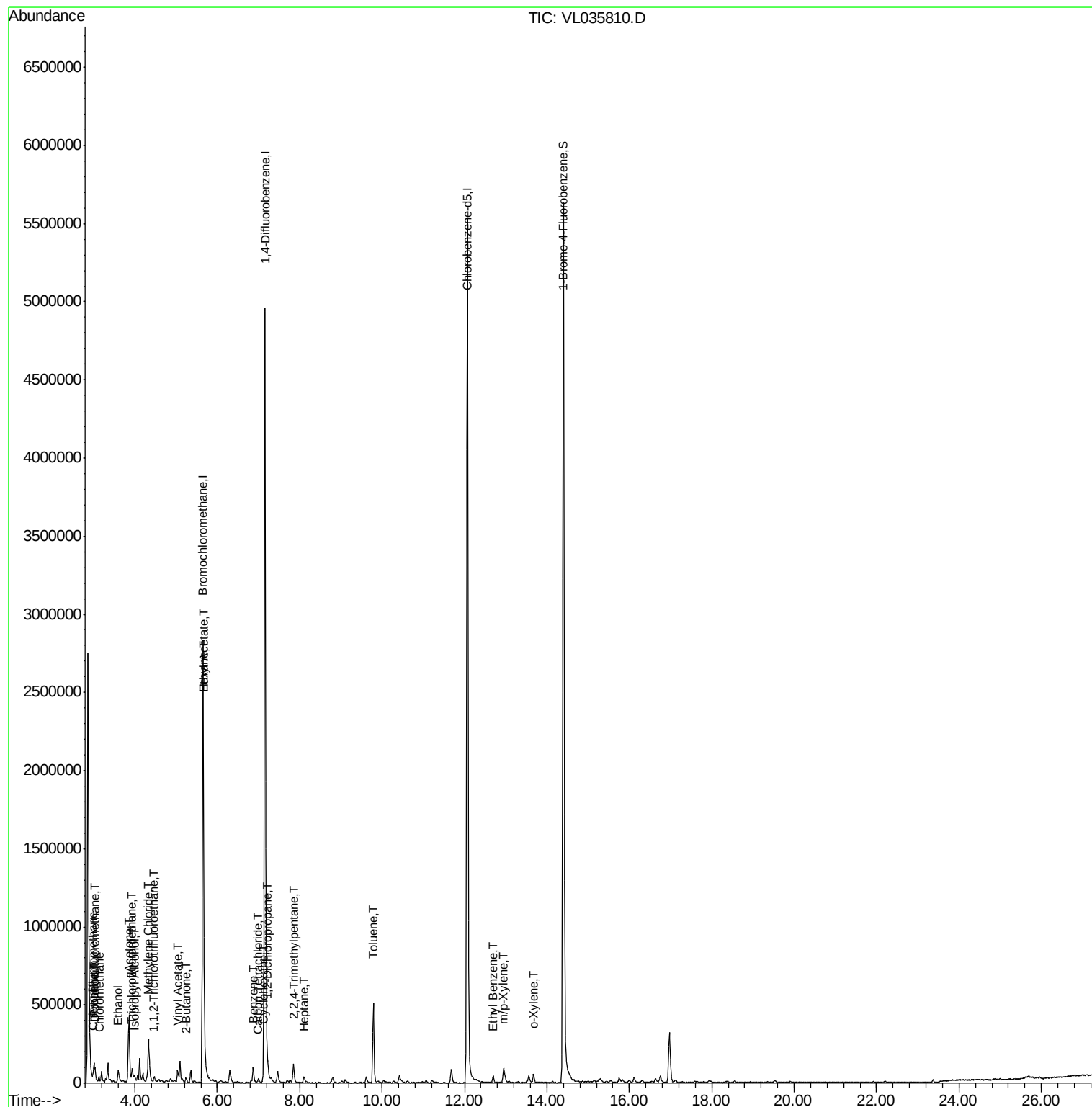
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	62685	0.298	ppbv 98
3) Chlorodifluoromethane	2.97	51	47760	0.357	ppbv 92
4) Chloromethane	3.13	50	30825	0.475	ppbv 97
9) Propene	3.01	41	34589	0.707	ppbv 83
10) Heptane	8.10	43	14927	0.110	ppbv 93
11) Trichlorofluoromethane	3.93	101	60897	0.231	ppbv 91
12) 1,1,2-Trichlorotrifluoroet	4.47	101	13794	0.070	ppbv 97
13) Ethanol	3.59	45	110267	10.386	ppbv 97
15) Acetone	3.84	43	400787	3.358	ppbv # 88
19) Isopropyl Alcohol	3.98	45	6120	0.083	ppbv # 90
20) Methylene Chloride	4.33	84	141005	1.678	ppbv 97
23) Vinyl Acetate	5.04	43	35053	0.209	ppbv # 14
25) Ethyl Acetate	5.67	43	73877	0.314	ppbv # 78
26) Hexane	5.67	57	123457	0.952	ppbv # 46
30) Cyclohexane	7.11	84	14389	0.102	ppbv # 22
34) 2-Butanone	5.24	43	35363	0.214	ppbv # 87
35) Carbon Tetrachloride	7.00	117	18810	0.069	ppbv # 95
36) Benzene	6.87	78	91326	0.241	ppbv 95
39) 1,2-Dichloropropane	7.21	63	9492	0.074	ppbv # 33
44) 2,2,4-Trimethylpentane	7.85	57	119559	0.239	ppbv 91
53) Toluene	9.79	91	461060	1.009	ppbv 98
58) Ethyl Benzene	12.69	91	41622	0.073	ppbv 97
59) m/p-Xylene	12.95	91	103949	0.217	ppbv 94
60) o-Xylene	13.68	91	42899	0.092	ppbv 99

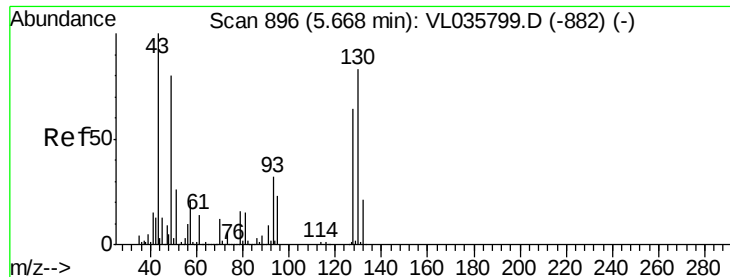
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 04 02:40:06 2020
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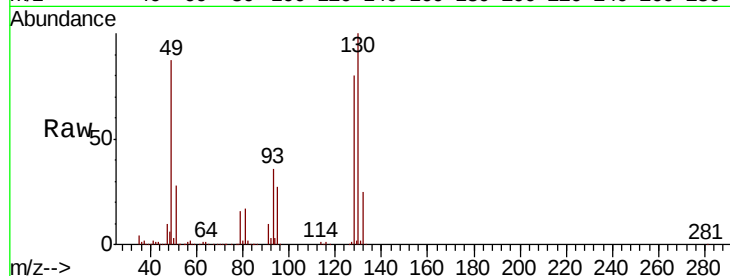




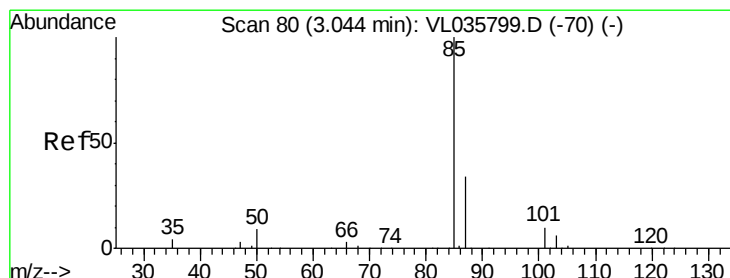
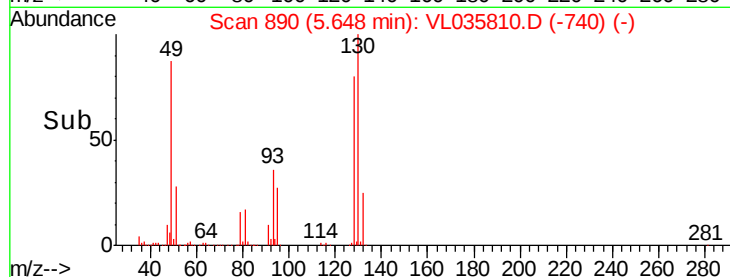
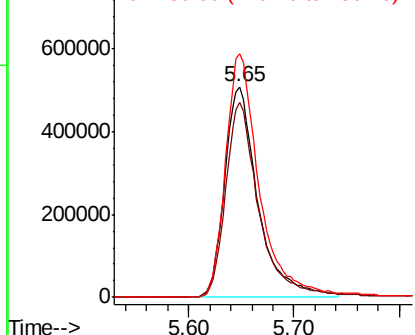
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1116560
Ion Ratio Lower Upper
49 100
128 93.1 41.5 124.6
130 120.1 53.7 161.1

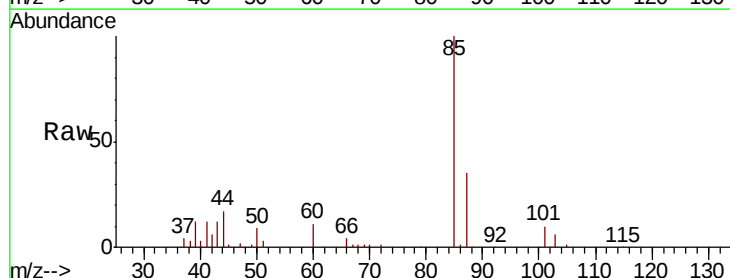


Abundance Ion 49.10 (48.80 to 49.80): VL0
800000
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V

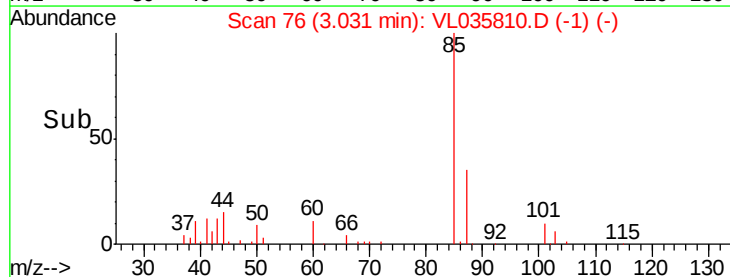
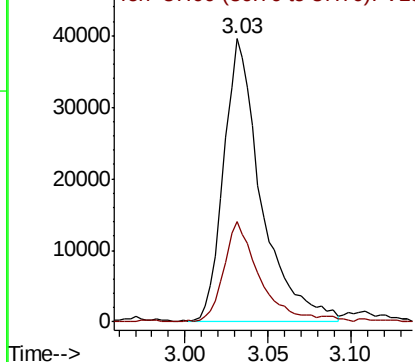


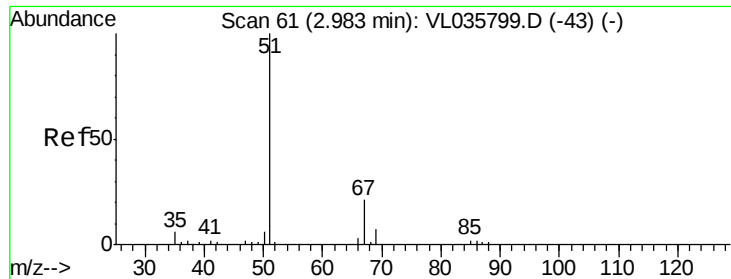
#2
Dichlorodifluoromethane
Concen: 0.298 ppbv
RT: 3.03 min Scan# 76
Delta R.T. -0.01 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion: 85 Resp: 62685
Ion Ratio Lower Upper
85 100
87 34.8 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0
40000
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.357 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

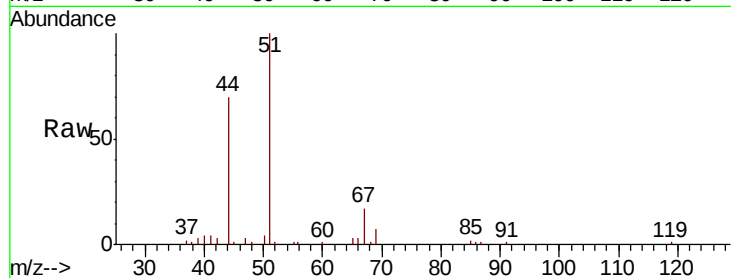
ClientSampled :

Tot Ion: 51 Resp: 47760

Ion Ratio Lower Upper

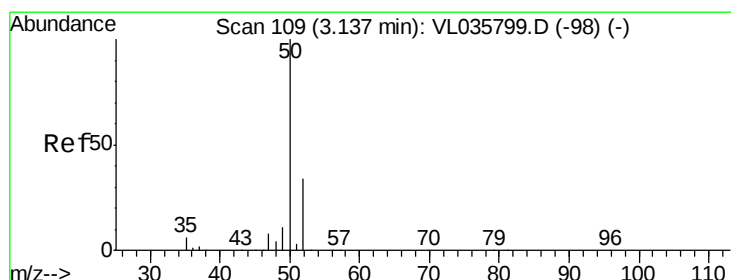
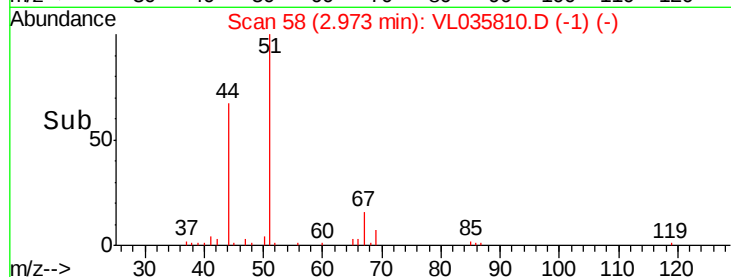
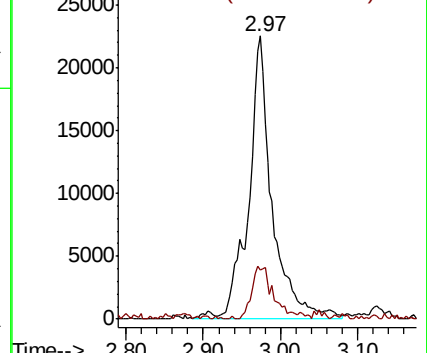
51 100

67 17.7 17.0 25.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.475 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035810.D

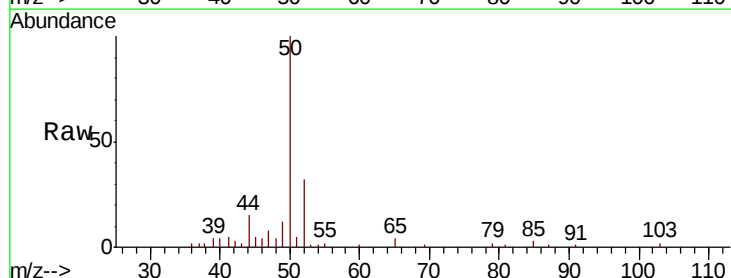
Acq: 3 Nov 2020 19:23

Tgt Ion: 50 Resp: 30825

Ion Ratio Lower Upper

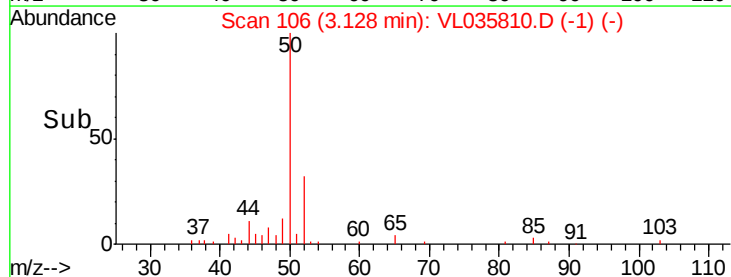
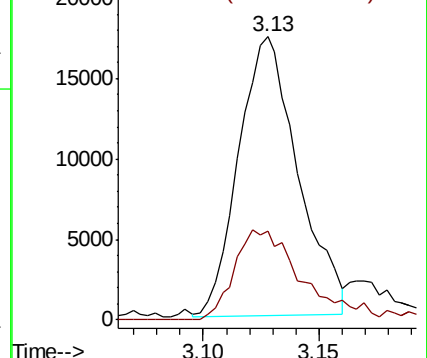
50 100

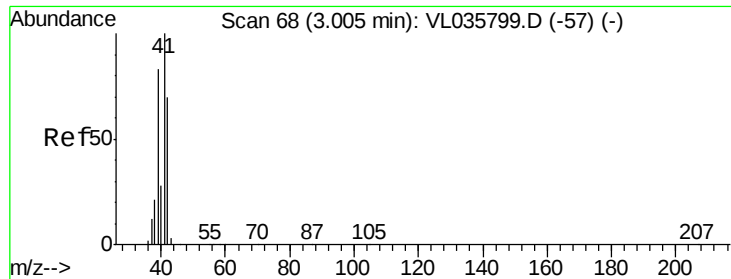
52 32.3 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.707 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

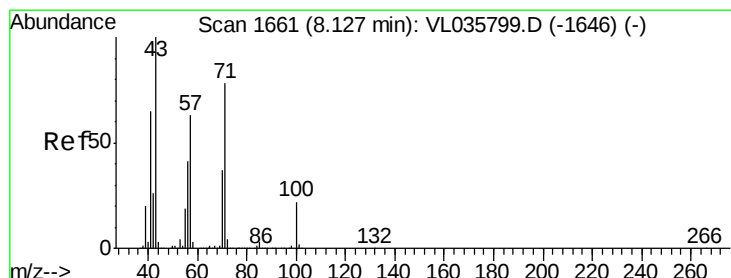
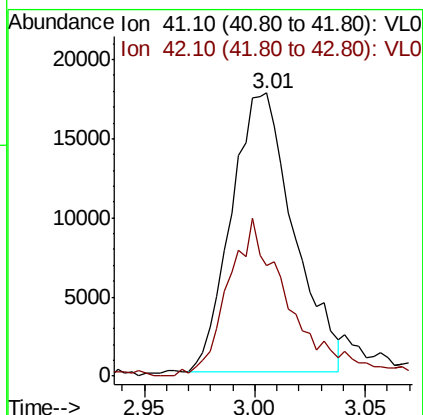
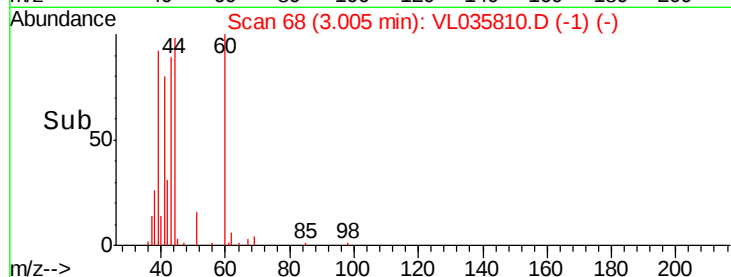
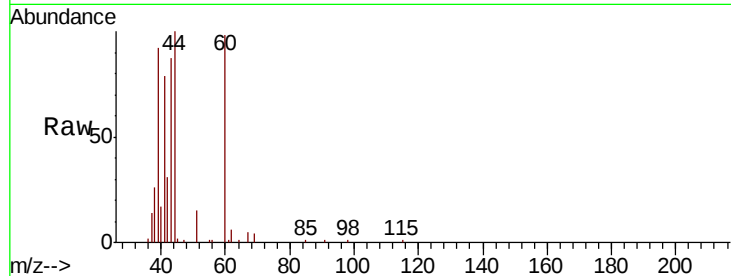
ClientSampleId :

Tot Ion: 41 Resp: 34589

Ion Ratio Lower Upper

41 100

42 56.6 56.2 84.4



#10

Heptane

Concen: 0.110 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL035810.D

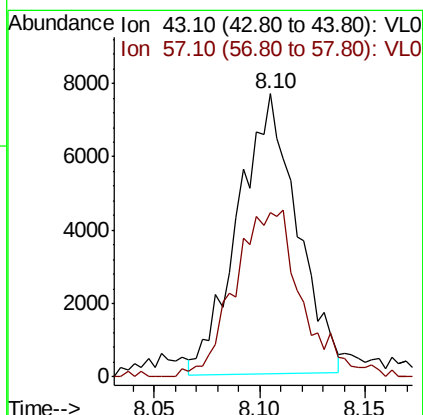
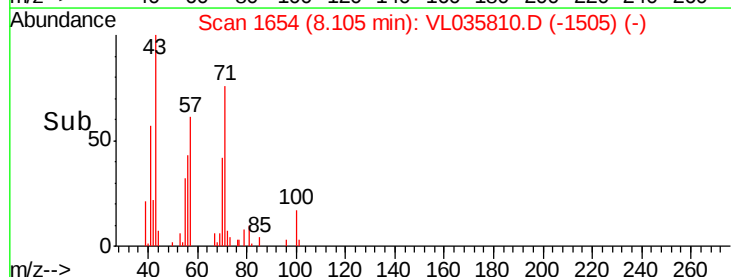
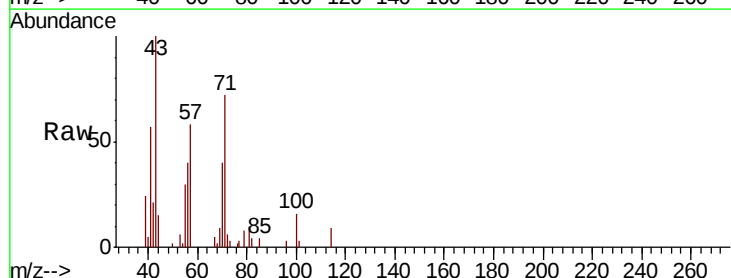
Acq: 3 Nov 2020 19:23

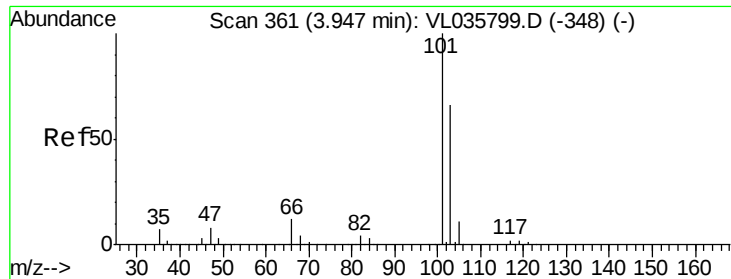
Tgt Ion: 43 Resp: 14927

Ion Ratio Lower Upper

43 100

57 68.0 50.0 75.0

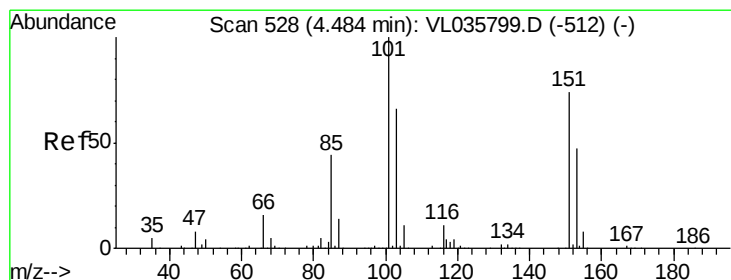
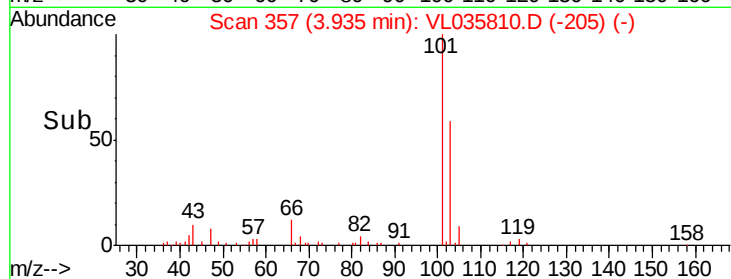
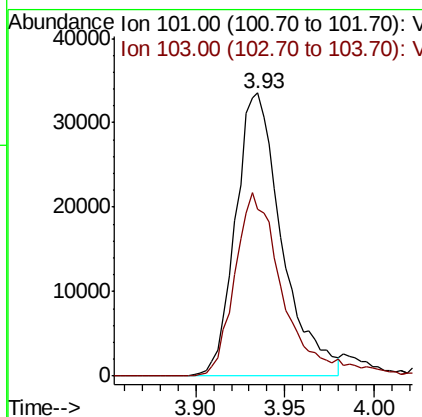
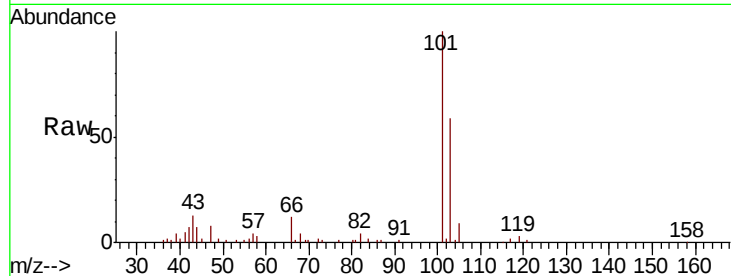




#11
 Trichlorofluoromethane
 Concen: 0.231 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.01 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

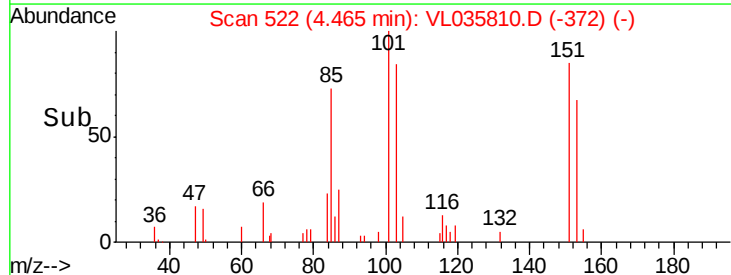
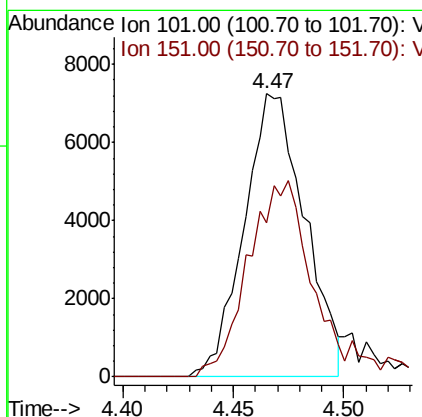
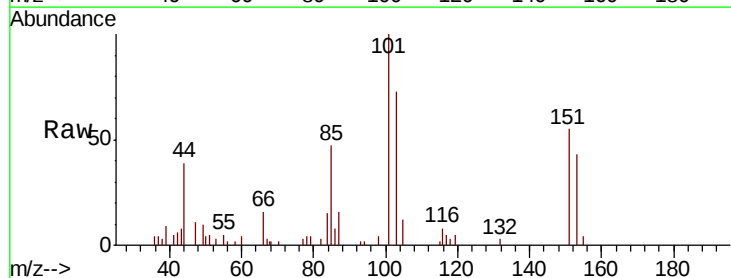
Instrument :
 MSVOA_L
 ClientSampleId :

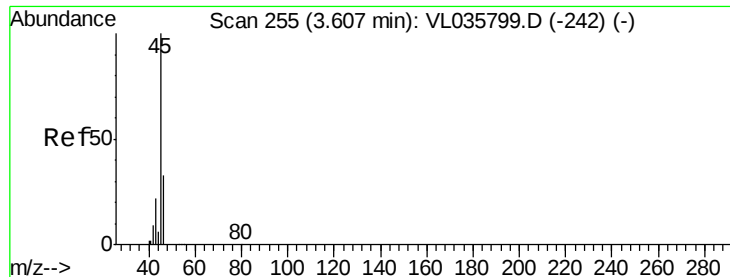
Tot Ion:101 Resp: 60897
 Ion Ratio Lower Upper
 101 100
 103 58.9 53.0 79.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.070 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.02 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

Tgt Ion:101 Resp: 13794
 Ion Ratio Lower Upper
 101 100
 151 76.2 58.9 88.3





#13

Ethanol

Concen: 10.386 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

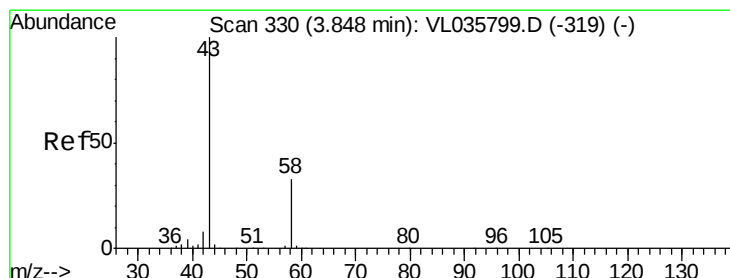
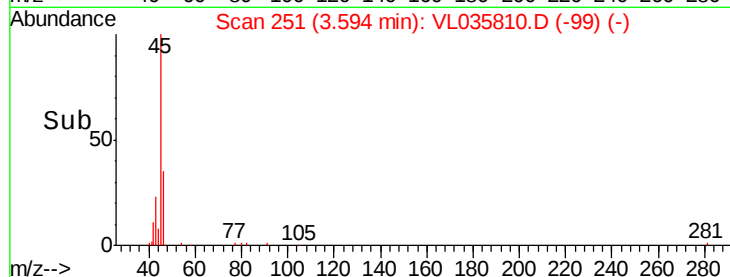
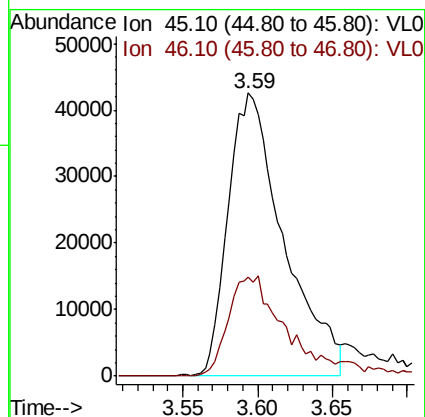
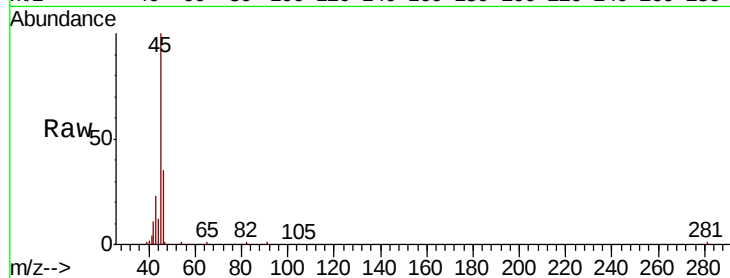
ClientSampleId :

Tot Ion: 45 Resp: 110267

Ion Ratio Lower Upper

45 100

46 38.4 16.1 64.5



#15

Acetone

Concen: 3.358 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035810.D

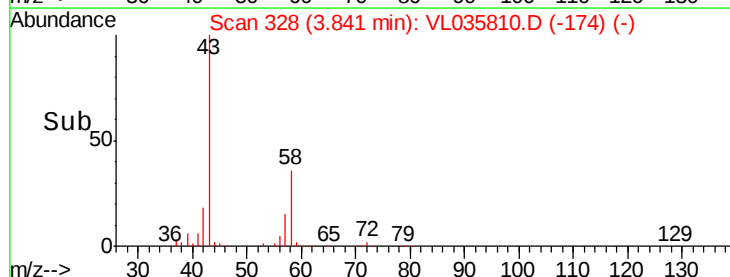
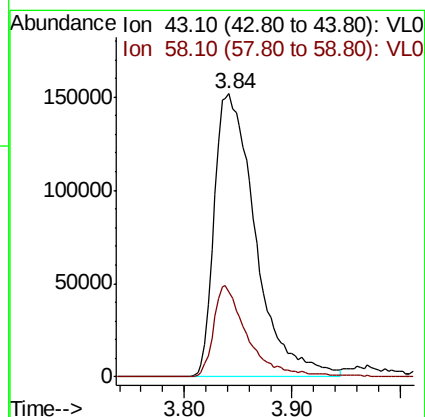
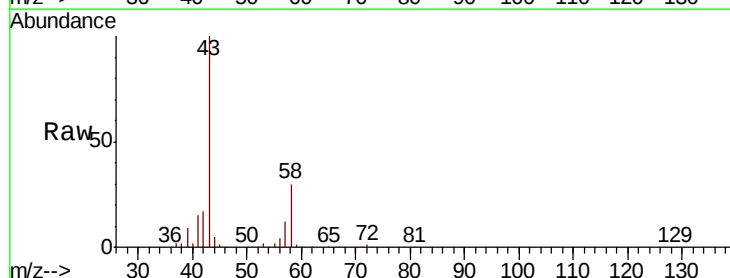
Acq: 3 Nov 2020 19:23

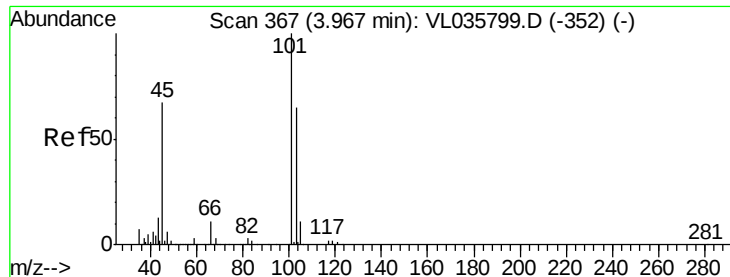
Tgt Ion: 43 Resp: 400787

Ion Ratio Lower Upper

43 100

58 27.5 27.5 41.3#





#19

Isopropyl Alcohol

Concen: 0.083 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

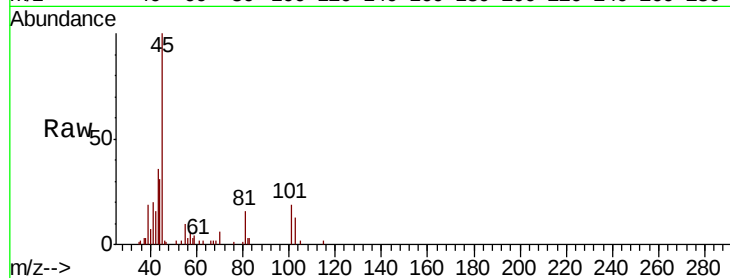
ClientSampled :

Tot Ion: 45 Resp: 6120

Ion Ratio Lower Upper

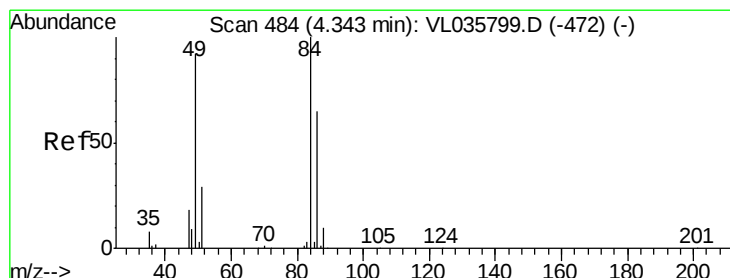
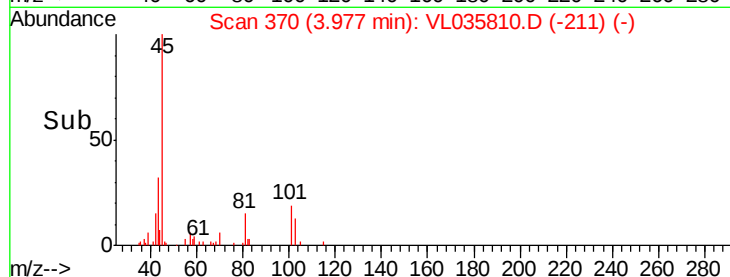
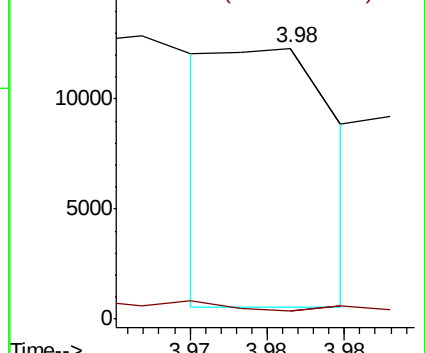
45 100

58 0.0 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.678 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Tgt Ion: 84 Resp: 141005

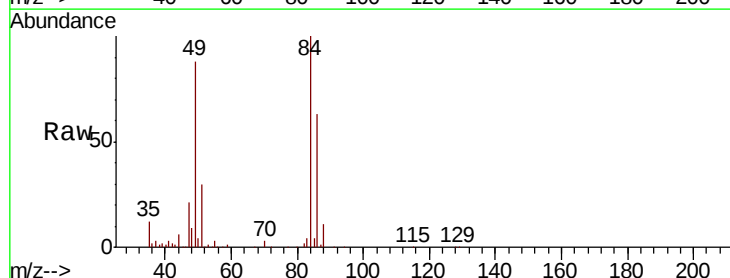
Ion Ratio Lower Upper

84 100

49 88.5 73.8 110.8

51 29.1 23.0 34.4

86 63.0 52.1 78.1

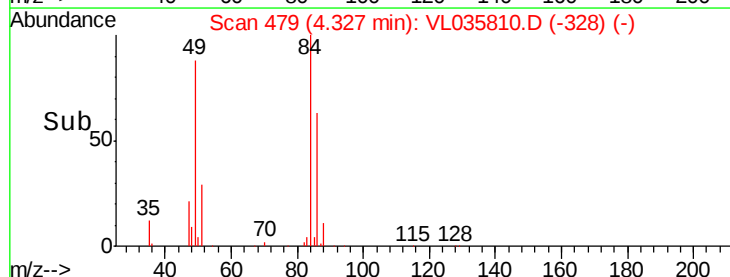
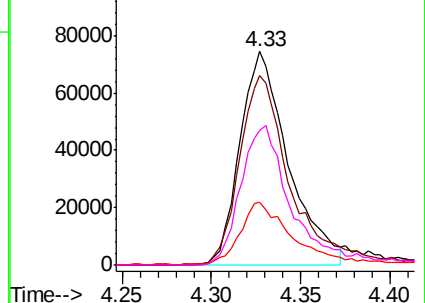


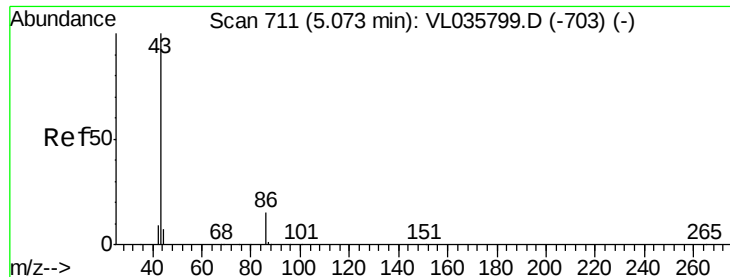
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

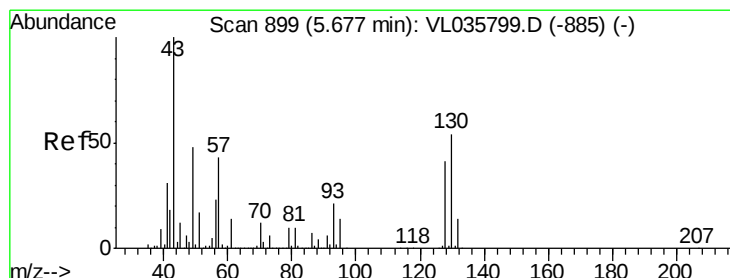
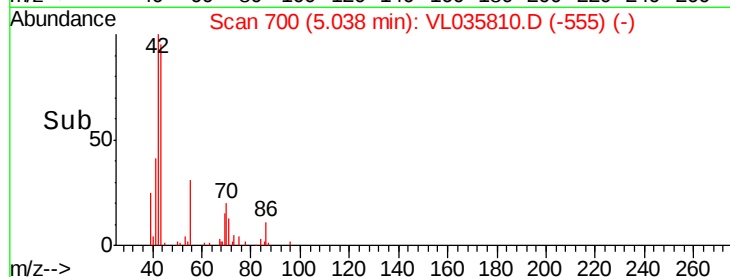
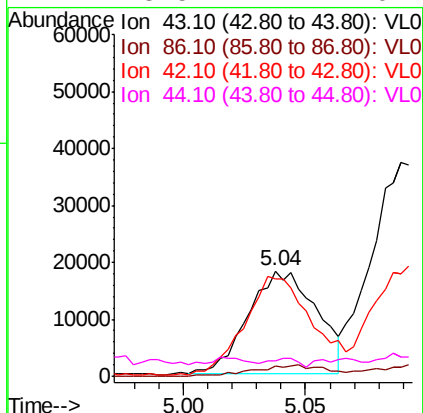
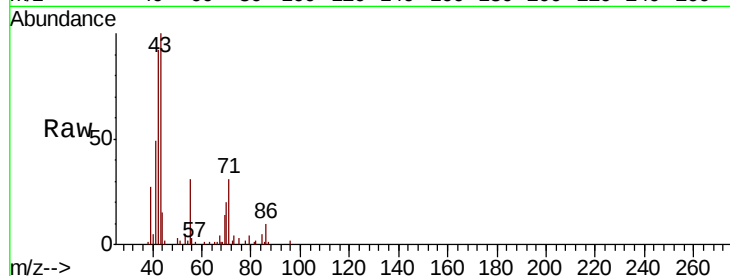




#23
 Vinyl Acetate
 Concen: 0.209 ppbv
 RT: 5.04 min Scan# 700
 Delta R.T. -0.04 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

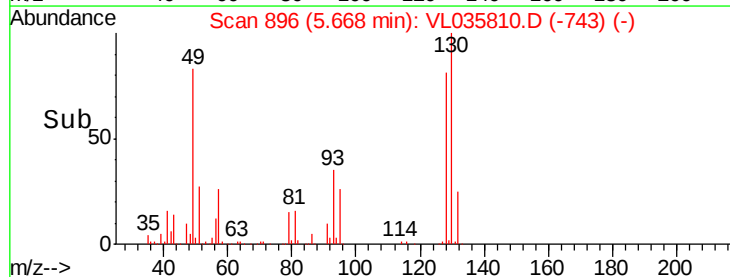
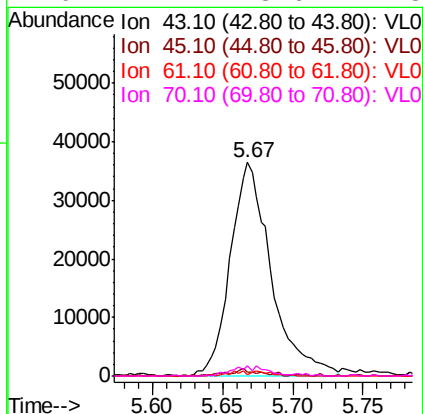
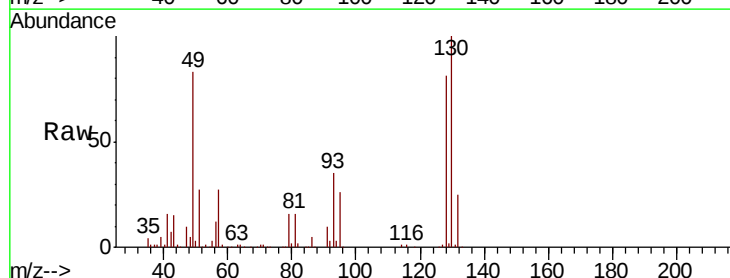
Instrument :
 MSVOA_L
 ClientSampled :

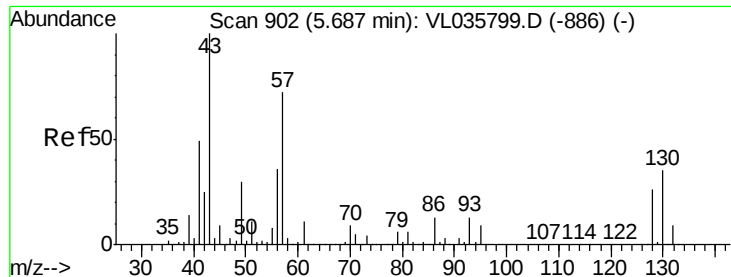
Tot Ion:	43	Resp:	35053
Ion	Ratio	Lower	Upper
43	100		
86	9.9	9.8	14.6
42	93.2	8.1	12.1#
44	3.5	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 0.314 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

Tgt Ion:	43	Resp:	73877
Ion	Ratio	Lower	Upper
43	100		
45	3.2	8.5	12.7#
61	2.1	10.7	16.1#
70	4.4	8.6	12.8#

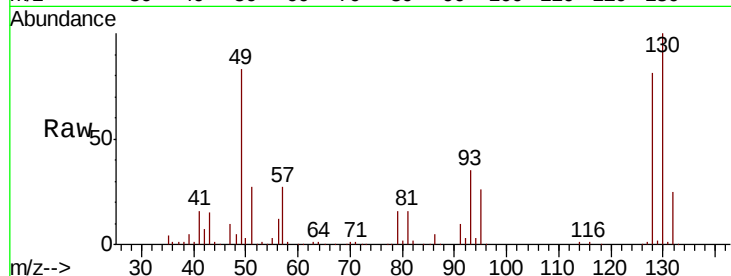




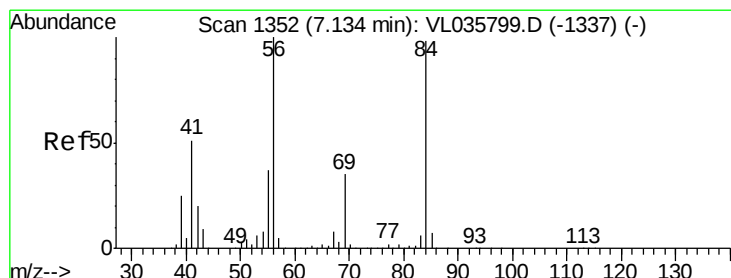
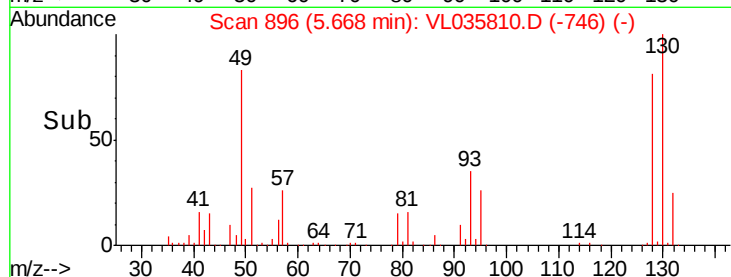
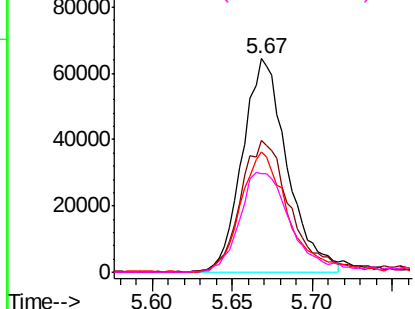
#26
Hexane
Concen: 0.952 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 123457
Ion Ratio Lower Upper
57 100
41 69.5 58.9 88.3
43 61.5 150.2 225.2#
56 56.2 42.4 63.6

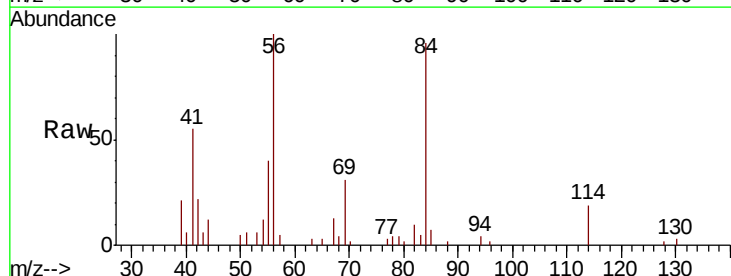


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

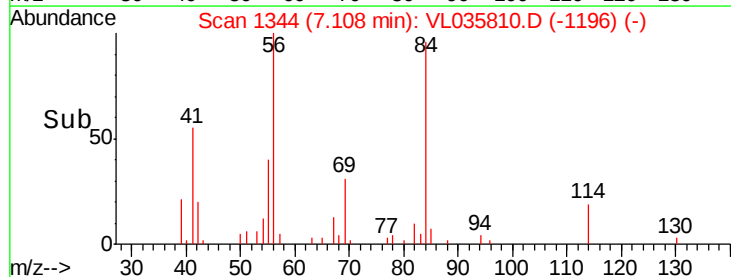
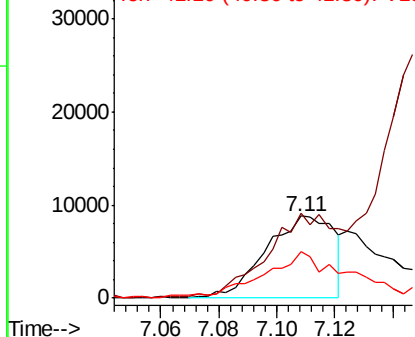


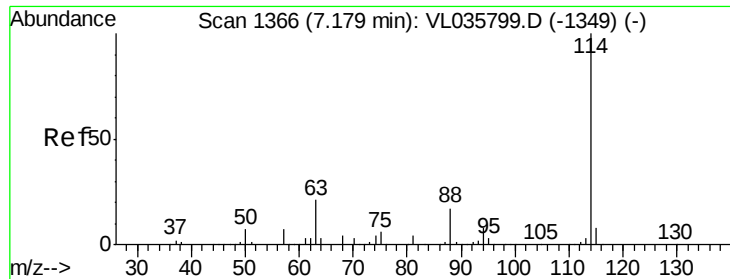
#30
Cyclohexane
Concen: 0.102 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion: 84 Resp: 14389
Ion Ratio Lower Upper
84 100
56 0.0 86.4 129.6#
41 70.5 42.1 63.1#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

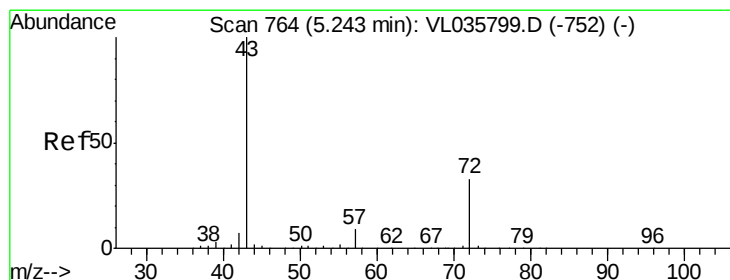
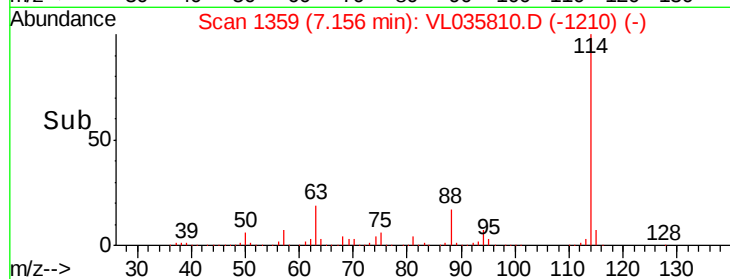
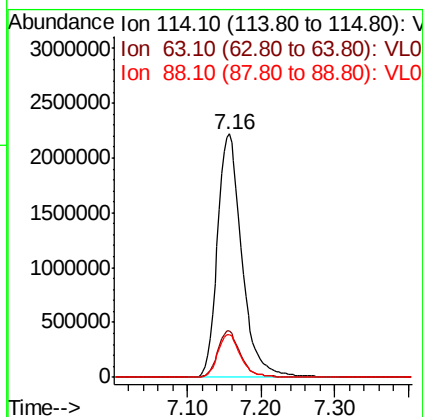
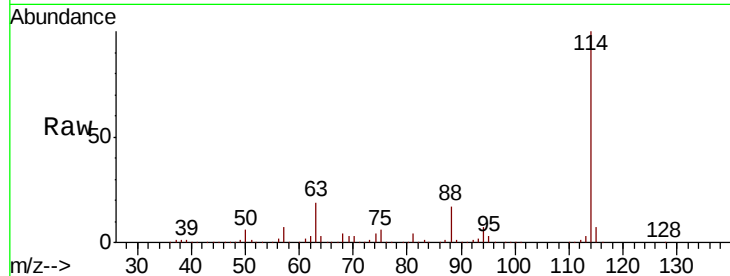




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

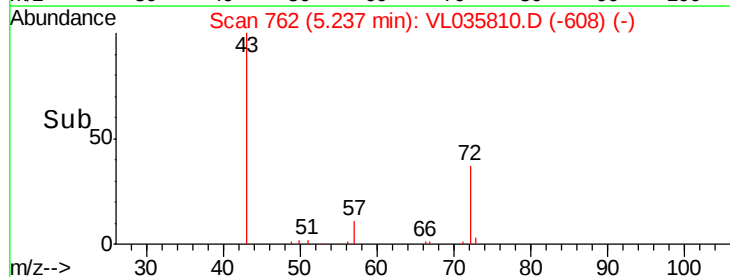
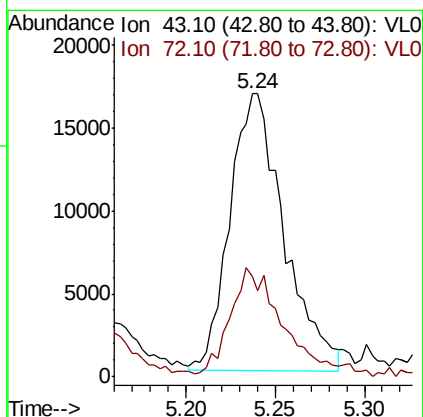
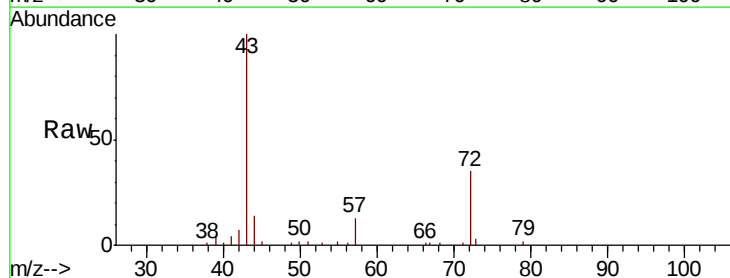
Instrument :
 MSVOA_L
 ClientSampled :

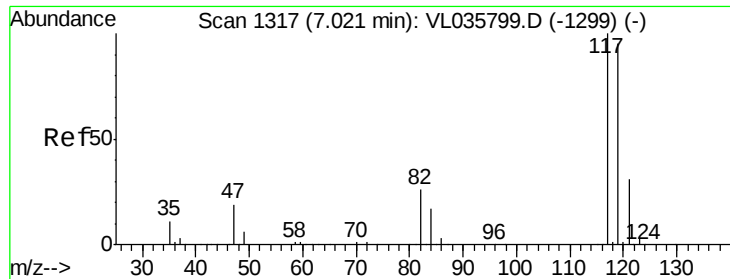
Tot Ion:114 Resp: 5092417
 Ion Ratio Lower Upper
 114 100
 63 18.1 16.1 24.1
 88 16.8 13.7 20.5



#34
 2-Butanone
 Concen: 0.214 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

Tgt Ion: 43 Resp: 35363
 Ion Ratio Lower Upper
 43 100
 72 40.6 26.5 39.7#

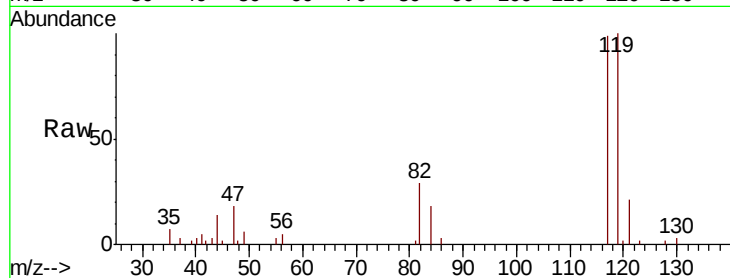




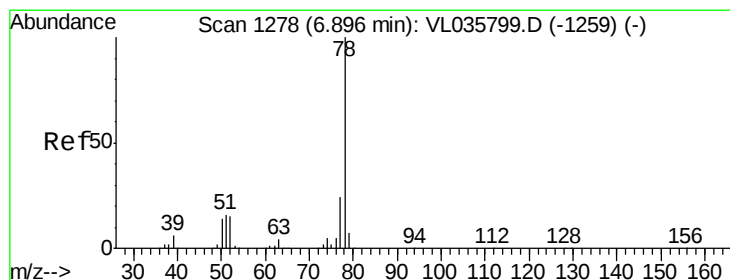
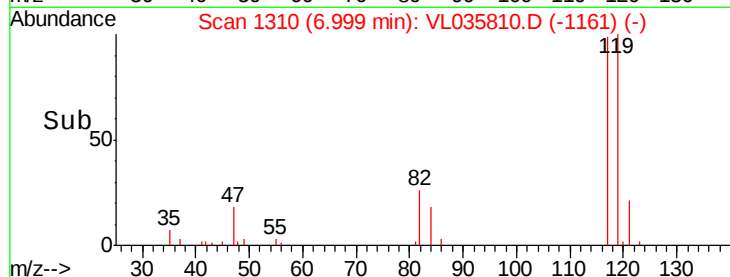
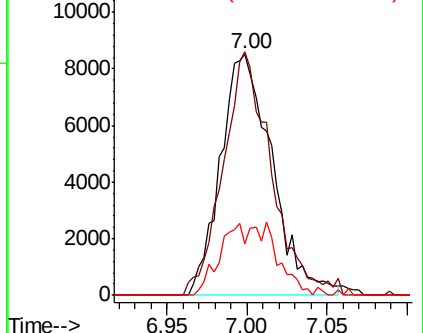
#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 18810
Ion Ratio Lower Upper
117 100
119 95.1 75.6 113.4
121 21.5 25.1 37.7#

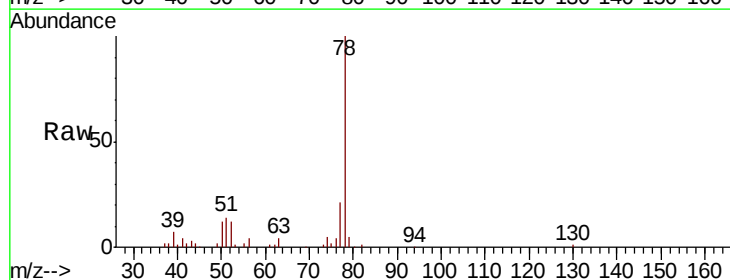


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

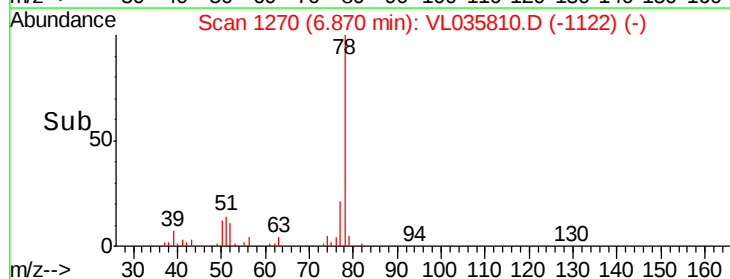
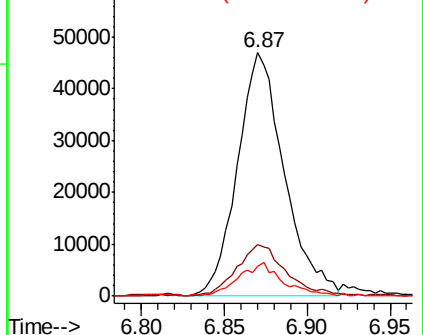


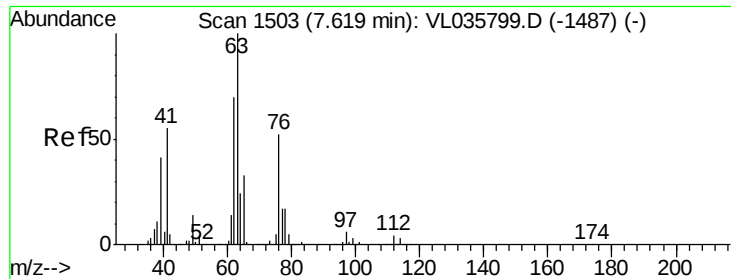
#36
Benzene
Concen: 0.241 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion: 78 Resp: 91326
Ion Ratio Lower Upper
78 100
77 21.3 19.3 28.9
50 12.6 11.4 17.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

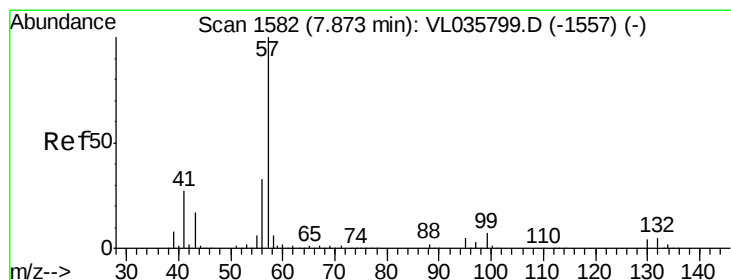
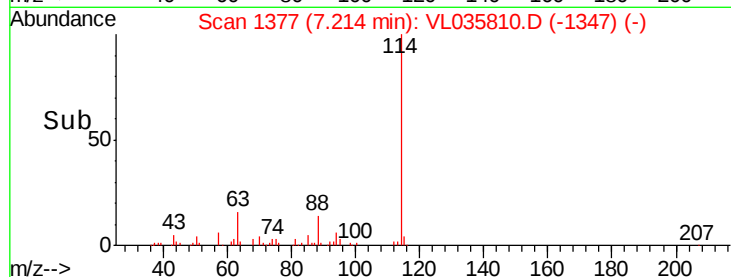
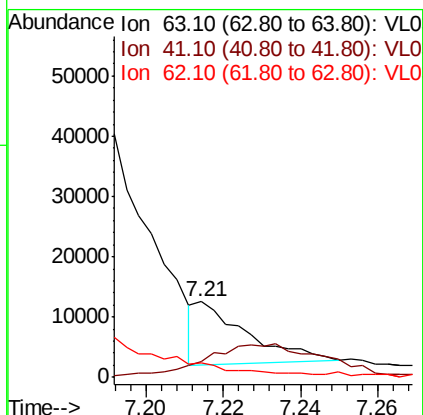
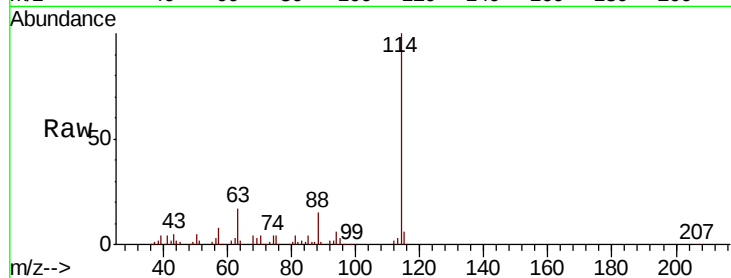




#39
 1,2-Dichloropropane
 Concen: 0.074 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.41 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

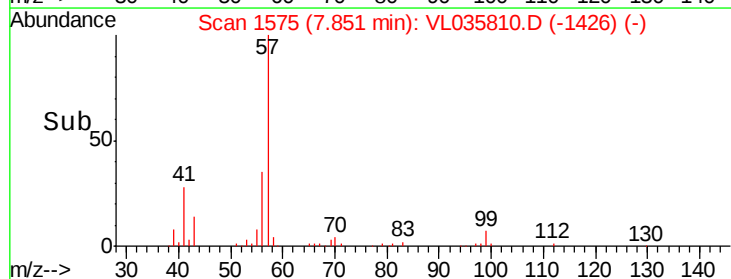
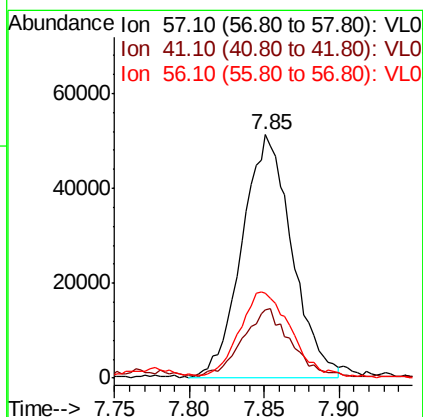
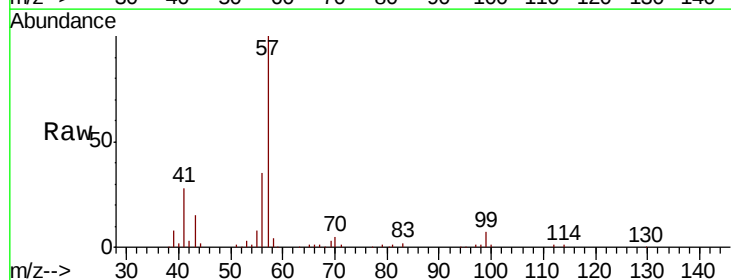
Instrument :
 MSVOA_L
 ClientSampled :

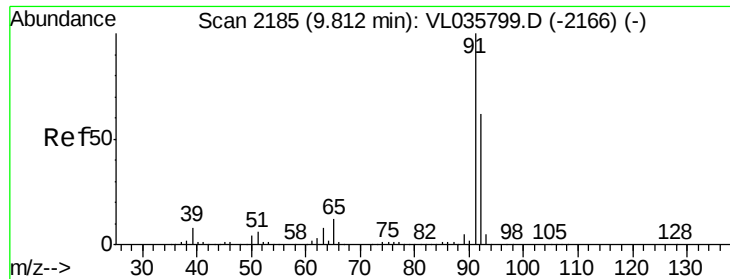
Tot Ion: 63 Resp: 9492
 Ion Ratio Lower Upper
 63 100
 41 6.5 43.8 65.6#
 62 14.5 56.2 84.2#



#44
 2,2,4-Trimethylpentane
 Concen: 0.239 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.02 min
 Lab File: VL035810.D
 Acq: 3 Nov 2020 19:23

Tgt Ion: 57 Resp: 119559
 Ion Ratio Lower Upper
 57 100
 41 29.2 21.0 31.4
 56 37.8 25.4 38.0





#53

Toluene

Concen: 1.009 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

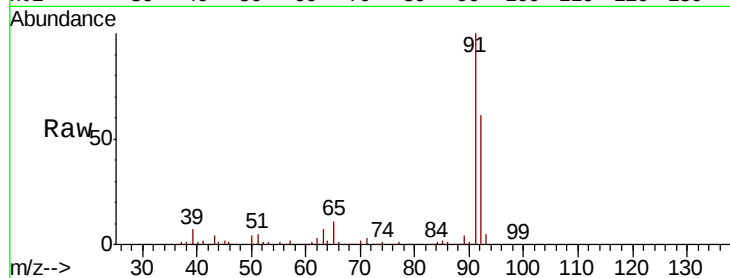
ClientSampleId :

Tot Ion: 91 Resp: 461060

Ion Ratio Lower Upper

91 100

92 60.5 49.8 74.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.79

200000

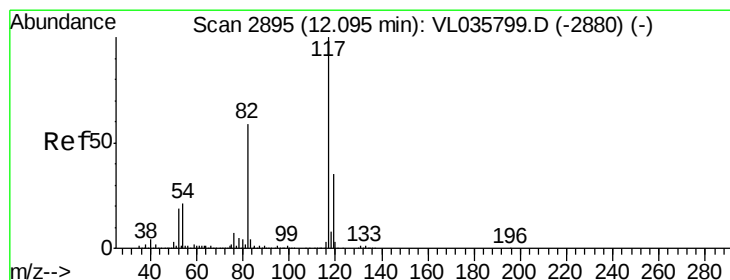
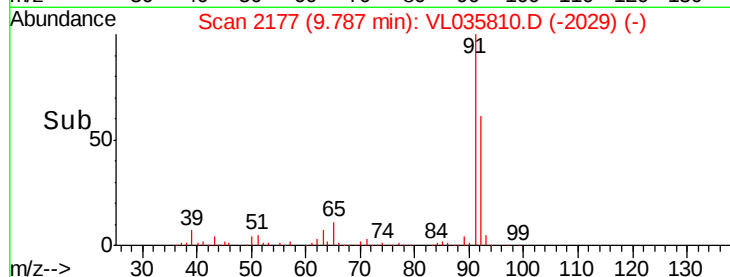
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.03 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

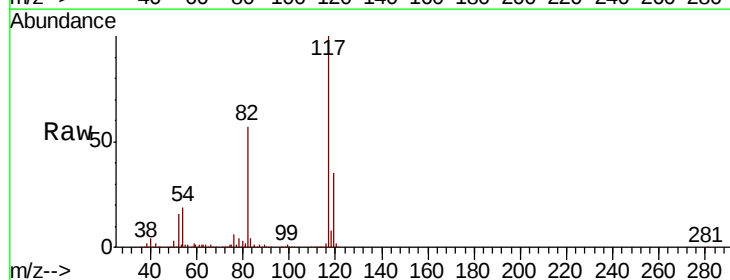
Tgt Ion: 117 Resp: 4656736

Ion Ratio Lower Upper

117 100

82 55.4 50.6 76.0

119 34.4 52.6 78.8#



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

12.07

2000000

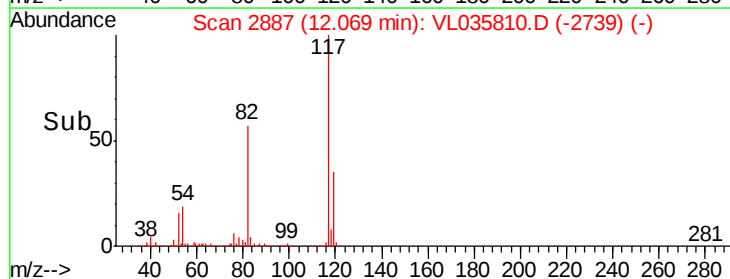
1500000

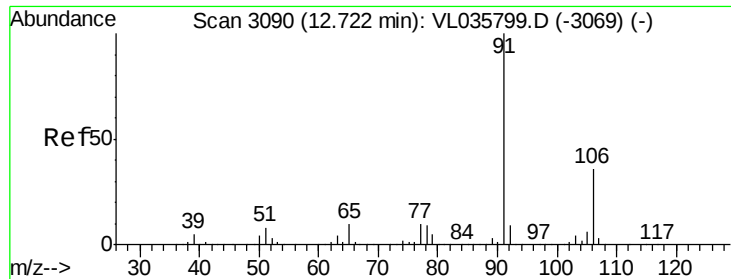
1000000

500000

0

Time-->





#58

Ethyl Benzene

Concen: 0.073 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. -0.03 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

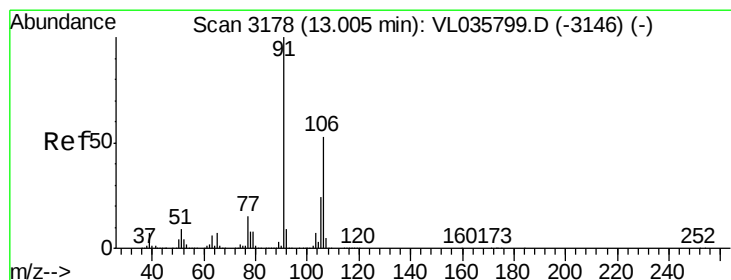
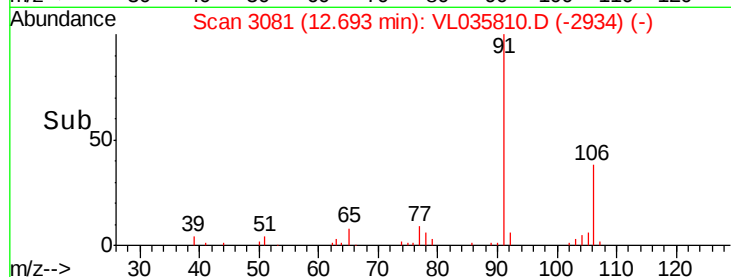
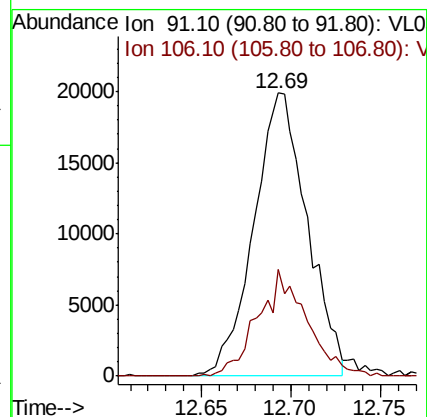
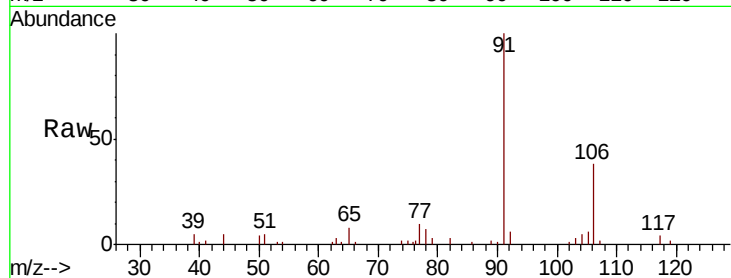
ClientSampleId :

Tot Ion: 91 Resp: 41622

Ion Ratio Lower Upper

91 100

106 37.6 28.6 43.0



#59

m/p-Xylene

Concen: 0.217 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.05 min

Lab File: VL035810.D

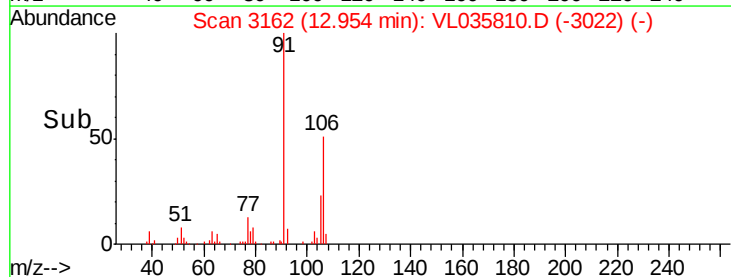
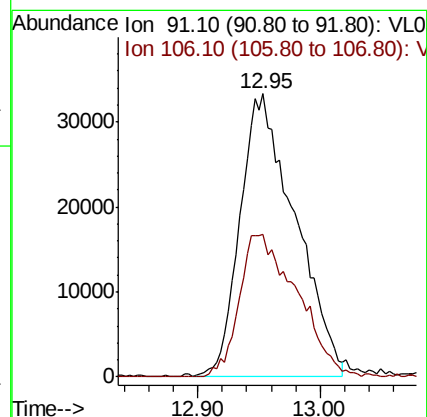
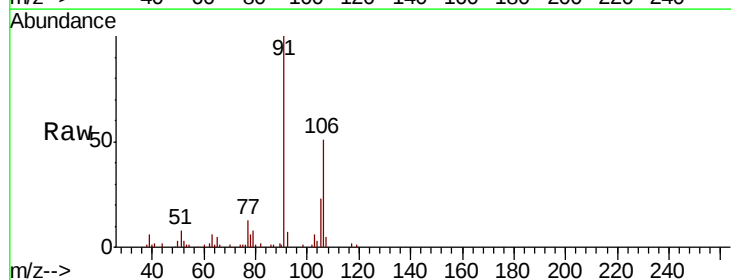
Acq: 3 Nov 2020 19:23

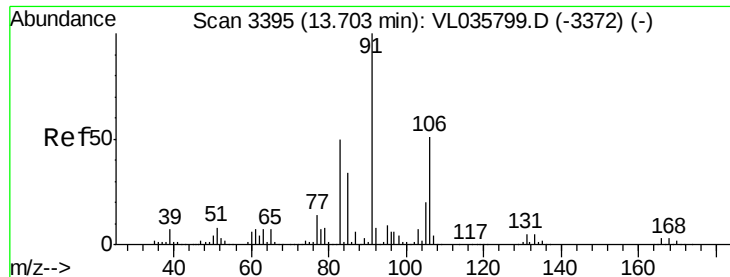
Tgt Ion: 91 Resp: 103949

Ion Ratio Lower Upper

91 100

106 53.2 39.5 59.3

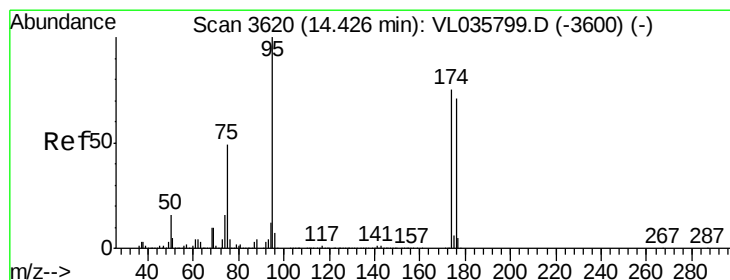
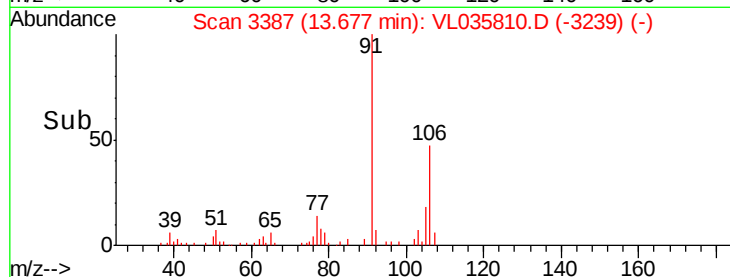
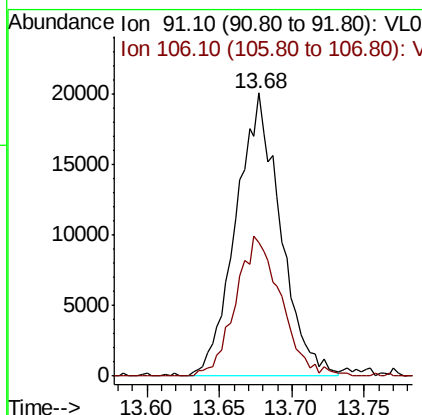
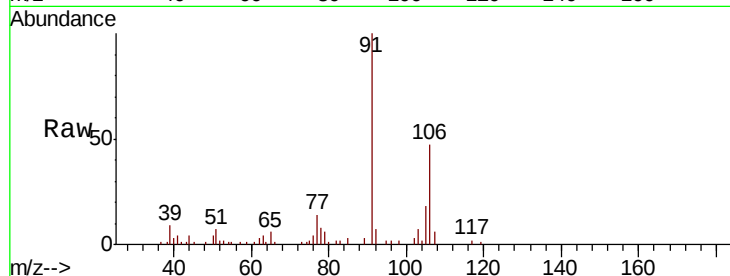




#60
o-Xylene
Concen: 0.092 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 42899
Ion Ratio Lower Upper
91 100
106 50.4 24.8 74.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.818 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion: 95 Resp: 3248373
Ion Ratio Lower Upper
95 100
174 76.9 59.8 89.6
175 5.3 4.3 6.5

