

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035473.D
 Acq On : 20 Aug 2020 13:47
 Operator : SY/AP
 Sample : L3743-01 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-1DL

Quant Time: Aug 21 05:57:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1039618	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4586999	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	4576549	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3233638	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

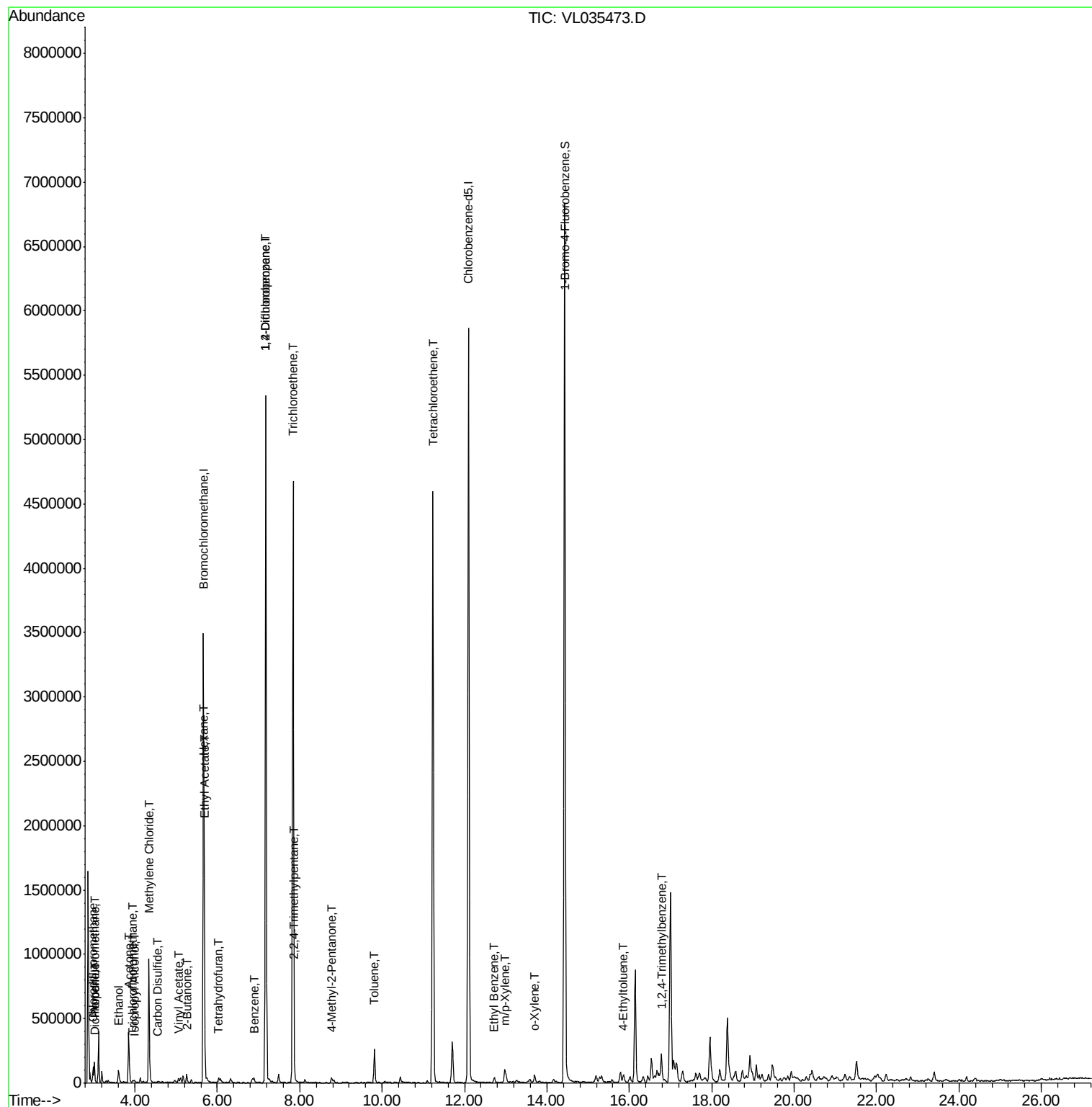
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	12054	0.063 ppbv	92
3) Chlorodifluoromethane	2.98	51	106628	0.818 ppbv	99
9) Propene	3.02	41	36775	0.702 ppbv #	80
11) Trichlorofluoromethane	3.95	101	11031	0.036 ppbv #	80
13) Ethanol	3.60	45	101252	5.275 ppbv	100
15) Acetone	3.85	43	361059	3.017 ppbv #	81
19) Isopropyl Alcohol	3.98	45	15646	0.190 ppbv #	1
20) Methylene Chloride	4.34	84	426112	4.414 ppbv #	63
23) Vinyl Acetate	5.06	43	19729	0.115 ppbv #	69
25) Ethyl Acetate	5.69	43	77007	0.331 ppbv #	78
26) Hexane	5.69	57	133144	1.013 ppbv #	31
27) Carbon Disulfide	4.55	76	7832	0.041 ppbv #	97
34) 2-Butanone	5.26	43	66042	0.431 ppbv #	74
36) Benzene	6.89	78	25322	0.075 ppbv #	88
38) Trichloroethene	7.84	130	1715174	9.159 ppbv #	83
39) 1,2-Dichloropropane	7.18	63	816408	7.358 ppbv #	23
41) Tetrahydrofuran	6.04	42	5700	0.067 ppbv #	38
44) 2,2,4-Trimethylpentane	7.87	57	16178	0.037 ppbv #	58
50) 4-Methyl-2-Pentanone	8.77	43	12885	0.059 ppbv #	39
52) Tetrachloroethene	11.23	164	1396480	6.800 ppbv #	83
53) Toluene	9.81	91	217321	0.501 ppbv	98
58) Ethyl Benzene	12.72	91	36989	0.067 ppbv	97
59) m/p-Xylene	13.00	91	40884	0.088 ppbv #	33
60) o-Xylene	13.70	91	46397	0.102 ppbv	89
72) 4-Ethyltoluene	15.85	105	17899	0.030 ppbv #	37
74) 1,2,4-Trimethylbenzene	16.78	105	170949	0.284 ppbv #	71

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

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DL

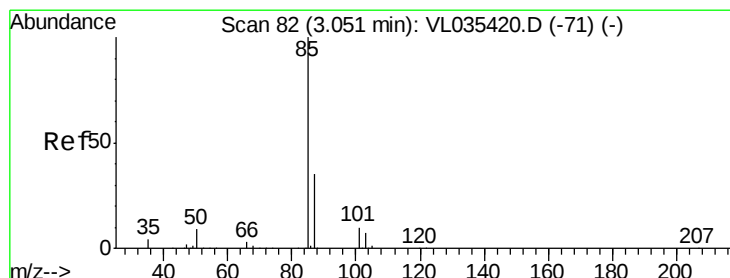
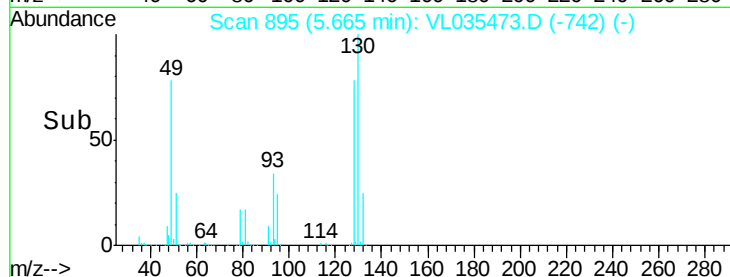
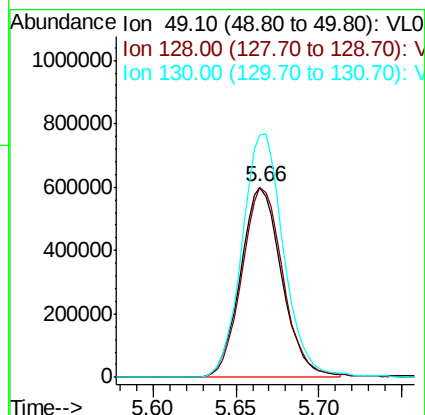
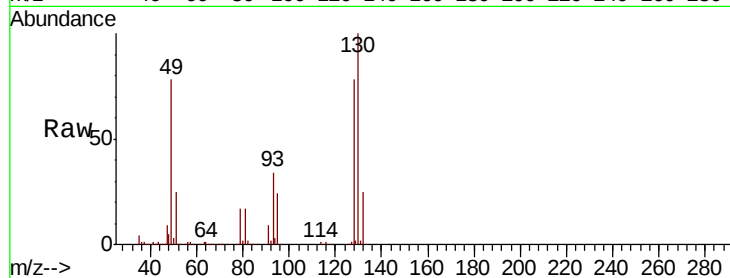
Tot Ion: 49 Resp: 1039618

Ion Ratio Lower Upper

49 100

128 101.0 20.9 62.7#

130 130.3 26.7 80.1#



#2

Dichlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035473.D

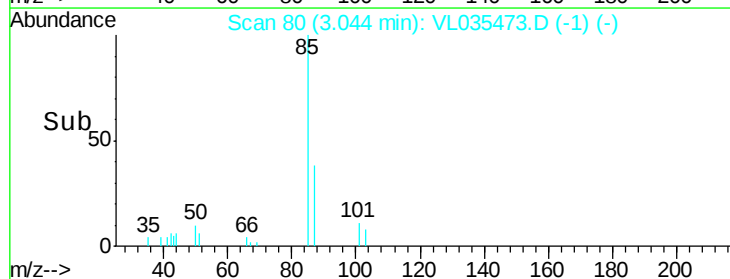
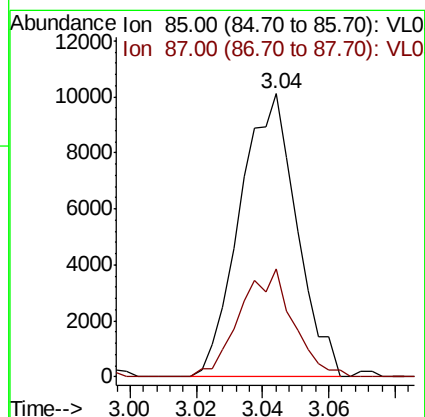
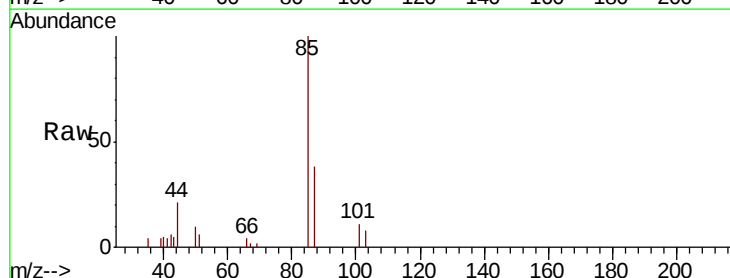
Acq: 20 Aug 2020 13:47

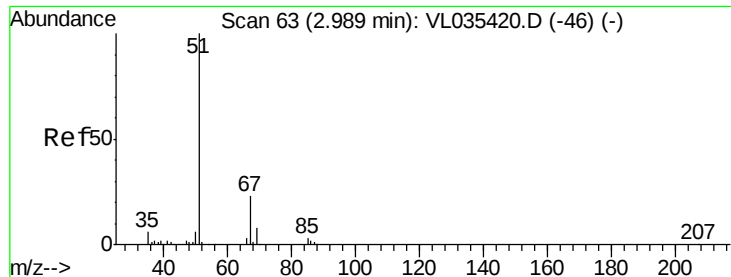
Tgt Ion: 85 Resp: 12054

Ion Ratio Lower Upper

85 100

87 38.4 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.818 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

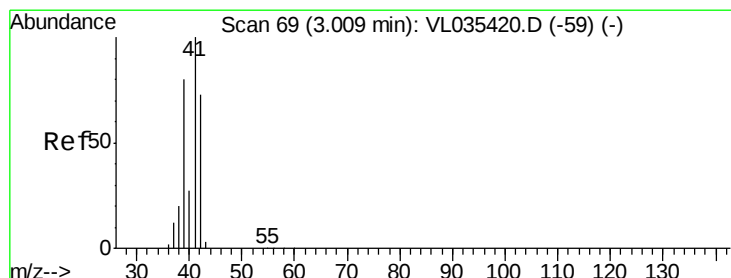
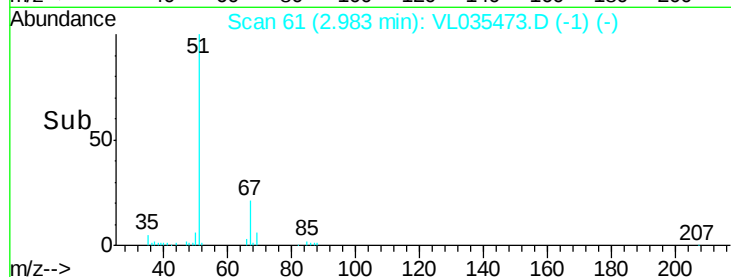
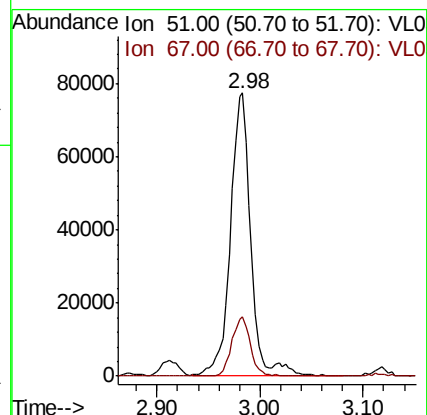
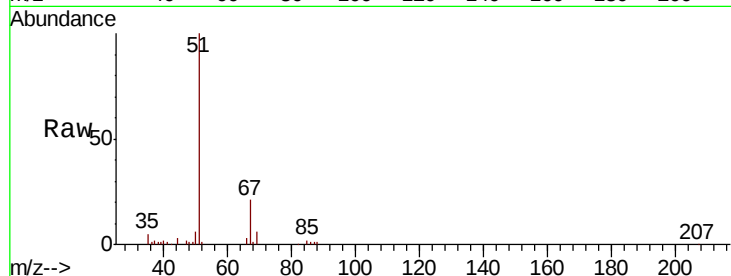
SSMP-1DL

Tot Ion: 51 Resp: 106628

Ion Ratio Lower Upper

51 100

67 19.2 15.0 22.6



#9

Propene

Concen: 0.702 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035473.D

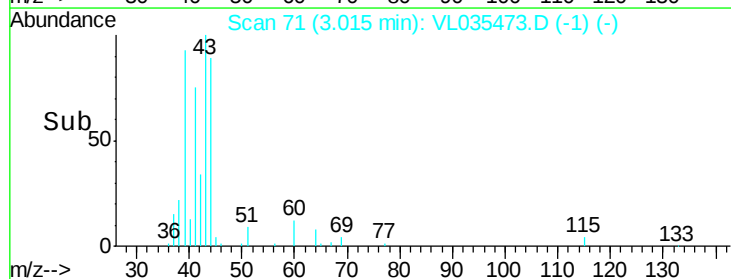
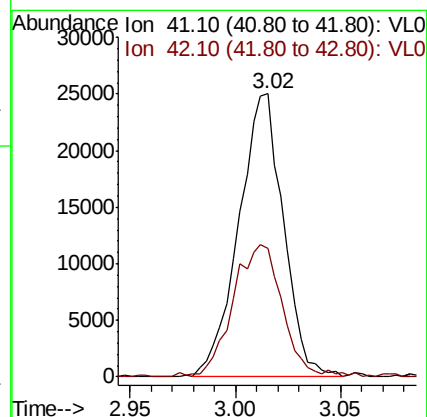
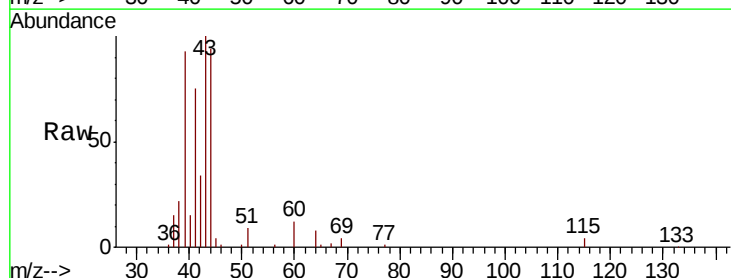
Acq: 20 Aug 2020 13:47

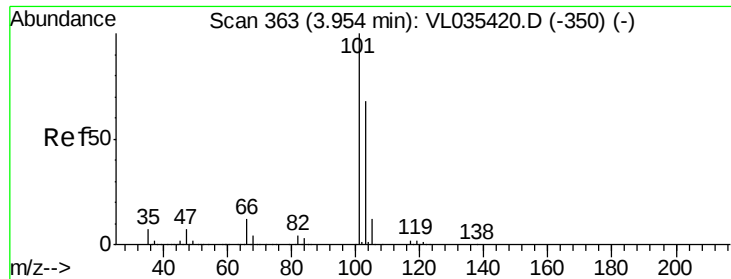
Tgt Ion: 41 Resp: 36775

Ion Ratio Lower Upper

41 100

42 53.0 55.5 83.3#

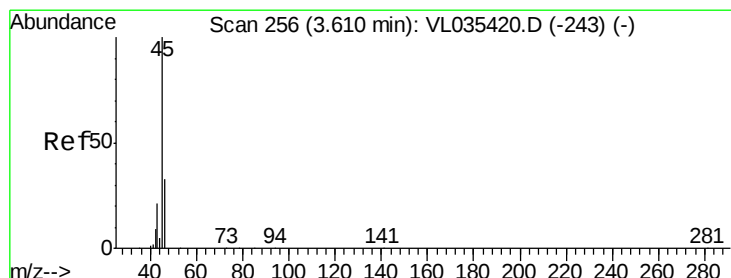
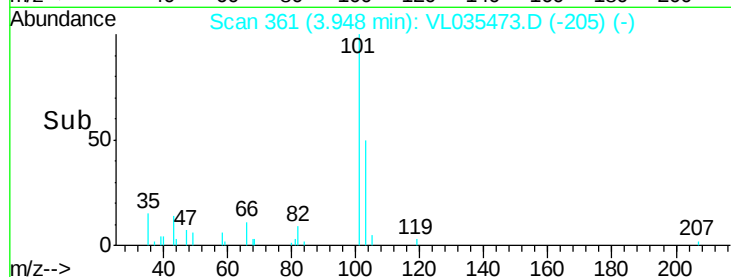
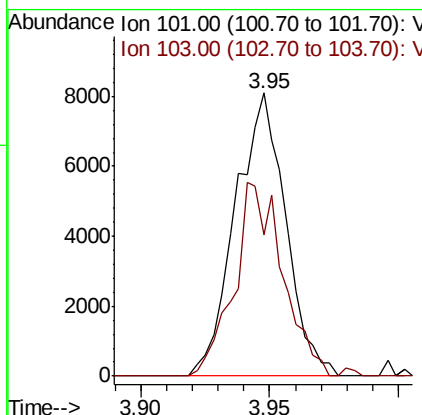
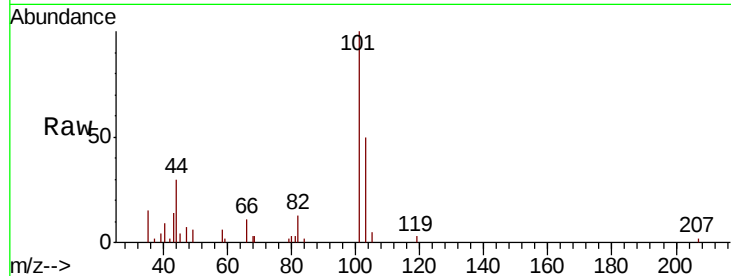




#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL035473.D
 Acq: 20 Aug 2020 13:47

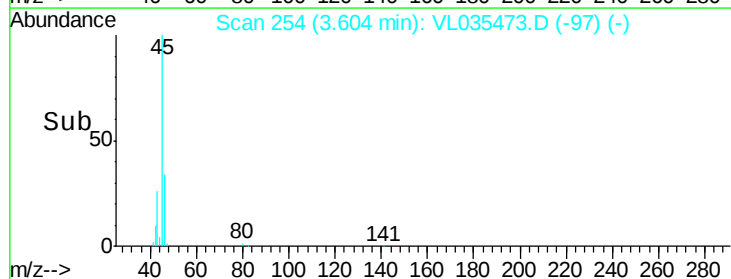
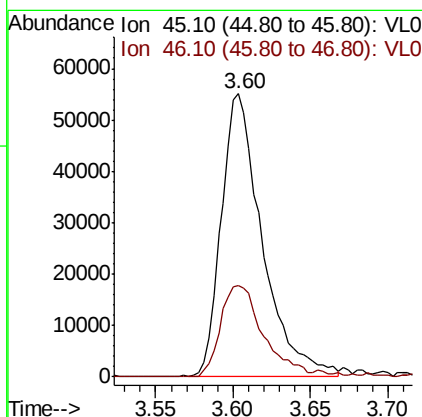
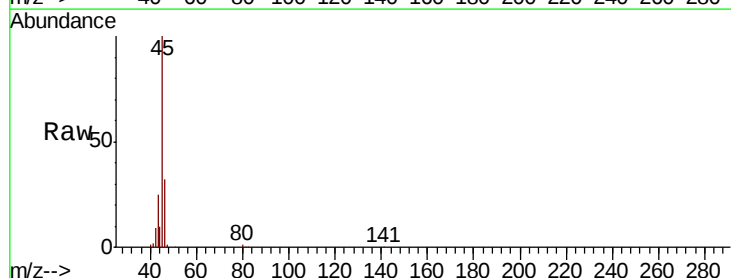
Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-1DL

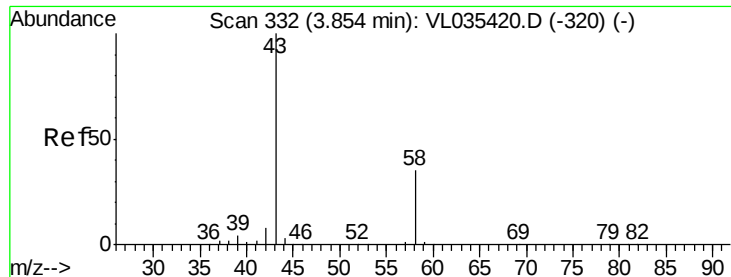
Tot Ion:101 Resp: 11031
 Ion Ratio Lower Upper
 101 100
 103 50.1 52.6 78.8#



#13
 Ethanol
 Concen: 5.275 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. 0.00 min
 Lab File: VL035473.D
 Acq: 20 Aug 2020 13:47

Tgt Ion: 45 Resp: 101252
 Ion Ratio Lower Upper
 45 100
 46 35.6 14.2 56.6





#15

Acetone

Concen: 3.017 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

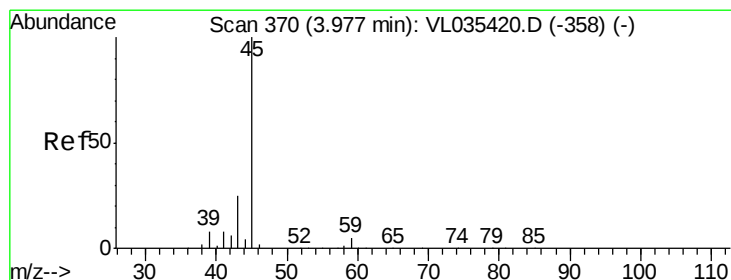
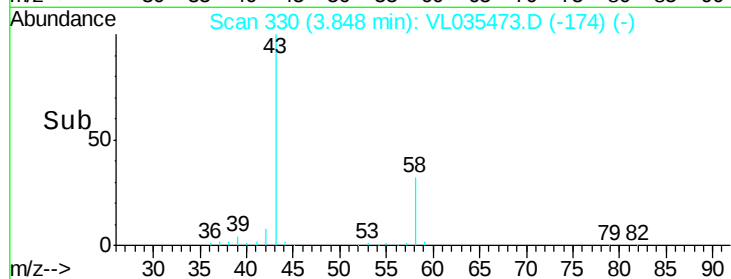
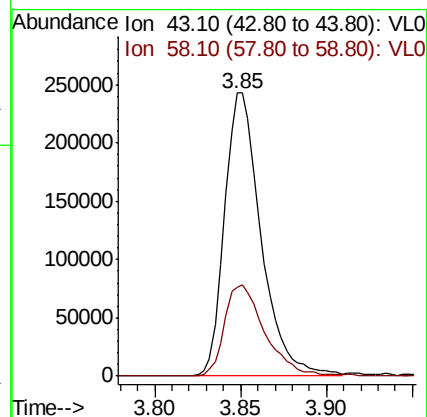
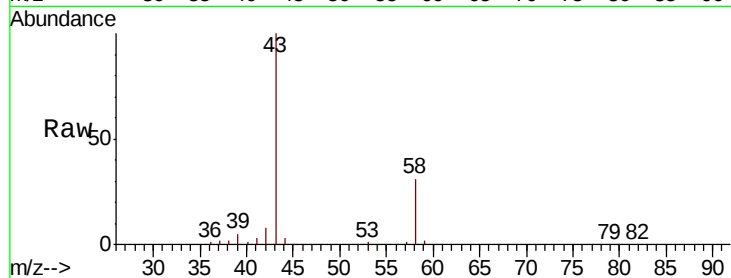
SSMP-1DL

Tot Ion: 43 Resp: 361059

Ion Ratio Lower Upper

43 100

58 36.2 21.0 31.6#



#19

Isopropyl Alcohol

Concen: 0.190 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL035473.D

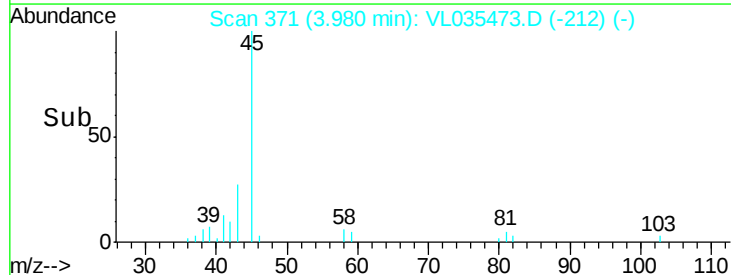
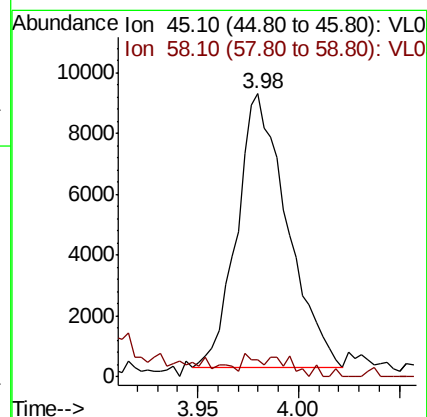
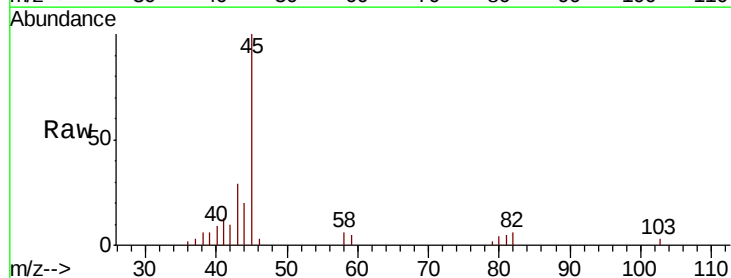
Acq: 20 Aug 2020 13:47

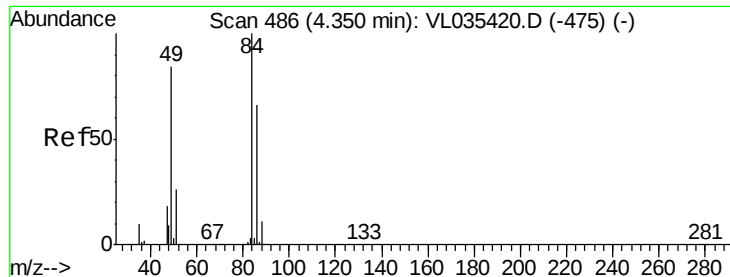
Tgt Ion: 45 Resp: 15646

Ion Ratio Lower Upper

45 100

58 833.0 1.0 1.6#

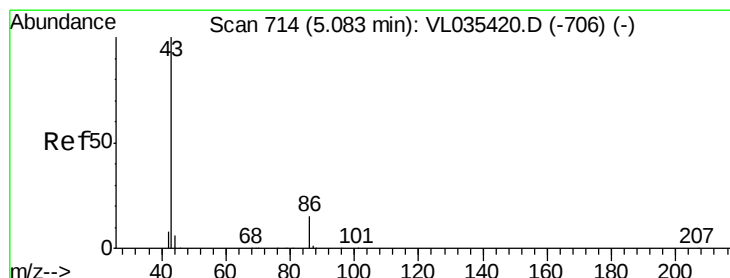
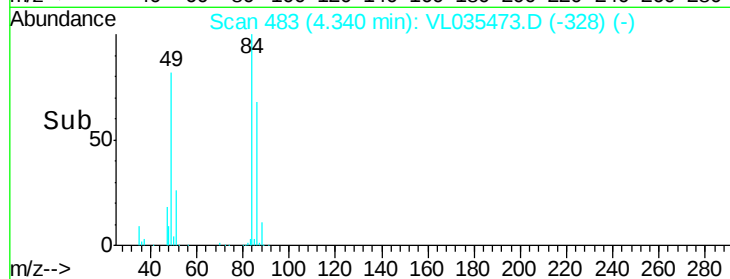
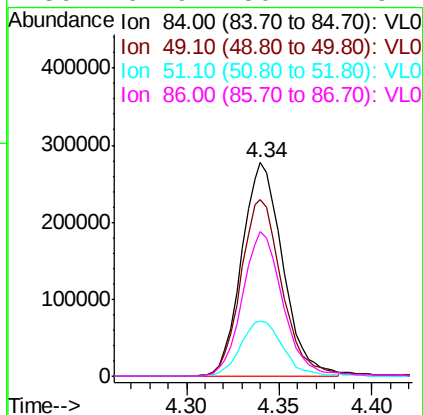
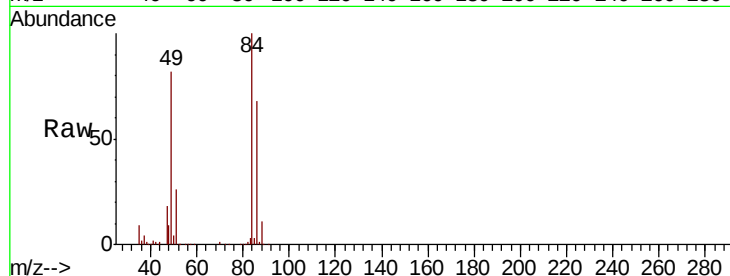




#20
Methvlene Chloride
Concen: 4.414 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL035473.D
Acq: 20 Aug 2020 13:47

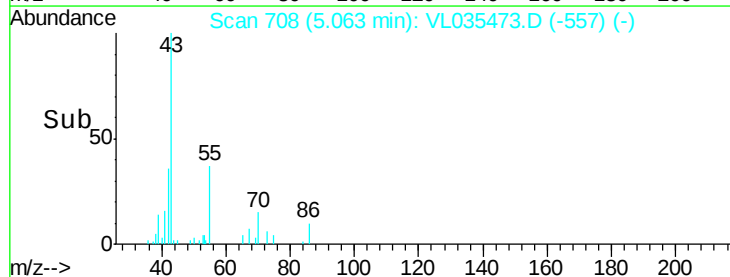
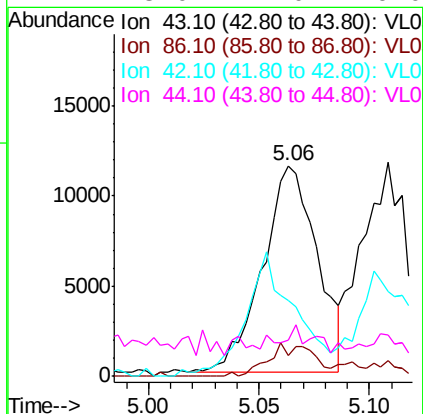
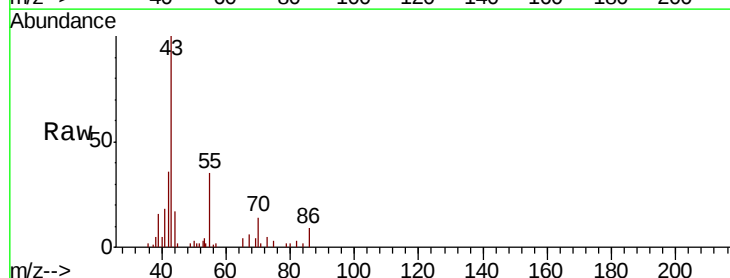
Instrument :
MSVOA_L
ClientSampleId :
SSMP-1DL

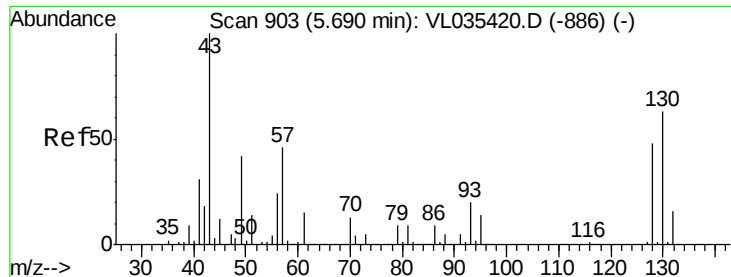
Tot Ion:	84	Resp:	426112
Ion	Ratio	Lower	Upper
84	100		
49	82.5	118.6	177.8#
51	25.7	36.4	54.6#
86	67.9	50.2	75.4



#23
Vinyl Acetate
Concen: 0.115 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.02 min
Lab File: VL035473.D
Acq: 20 Aug 2020 13:47

Tgt Ion:	43	Resp:	19729
Ion	Ratio	Lower	Upper
43	100		
86	9.6	6.5	9.7
42	34.7	8.3	12.5#
44	3.0	4.0	6.0#





#25

Ethyl Acetate

Concen: 0.331 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DL

Tot Ion: 43 Resp: 77007

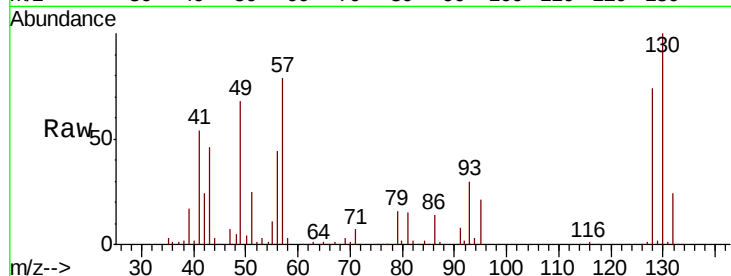
Ion Ratio Lower Upper

43 100

45 1.0 8.3 12.5#

61 0.4 7.6 11.4#

70 2.4 6.0 9.0#

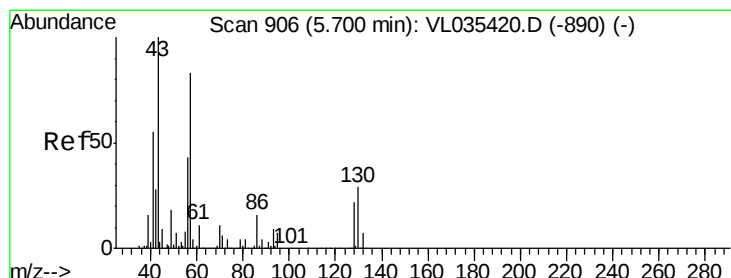
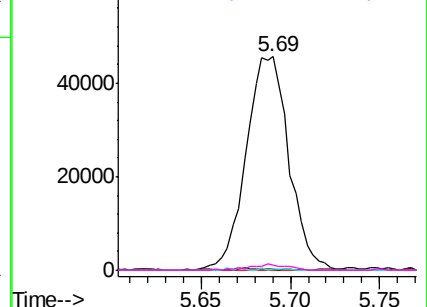
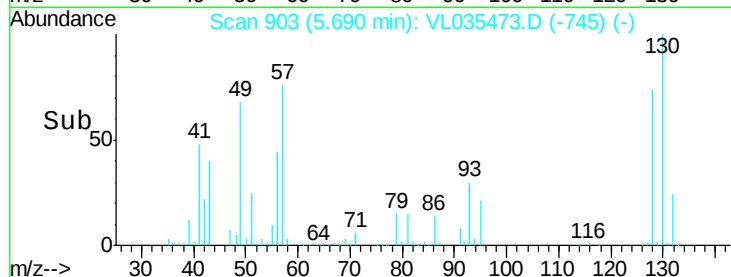


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.013 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Tgt Ion: 57 Resp: 133144

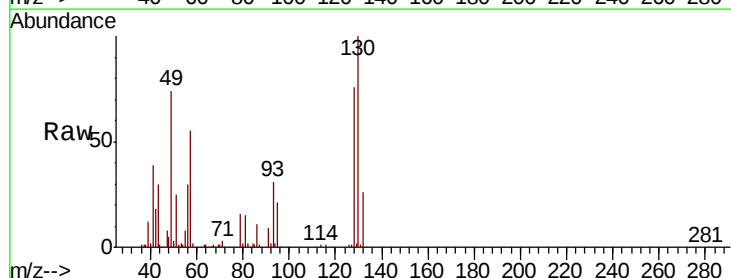
Ion Ratio Lower Upper

57 100

41 73.1 75.5 113.3#

43 58.5 181.7 272.5#

56 56.4 42.4 63.6

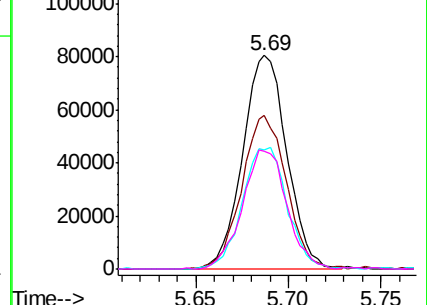
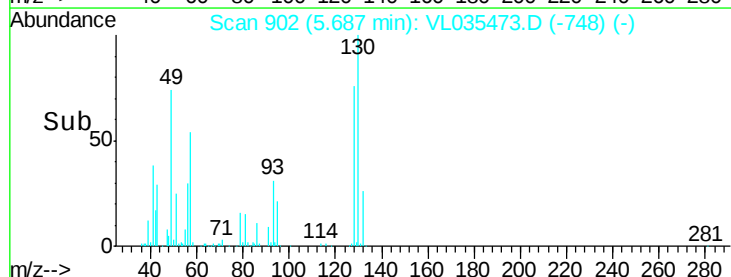


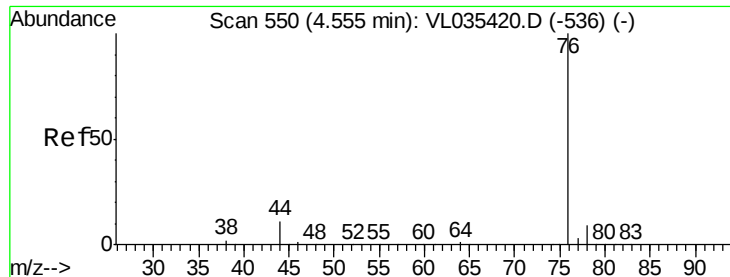
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

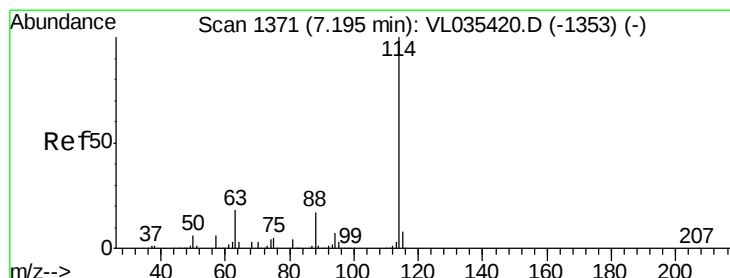
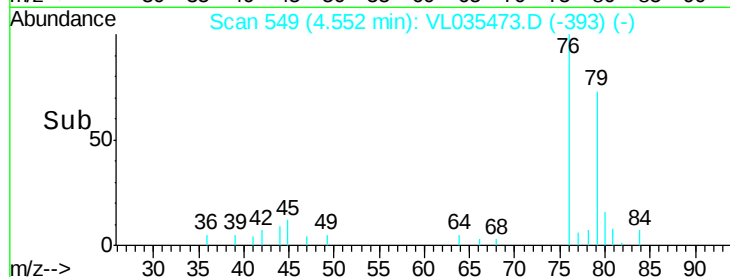
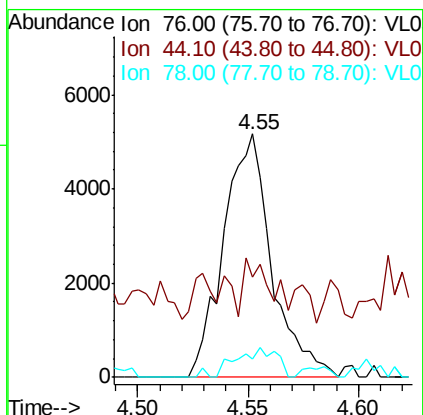
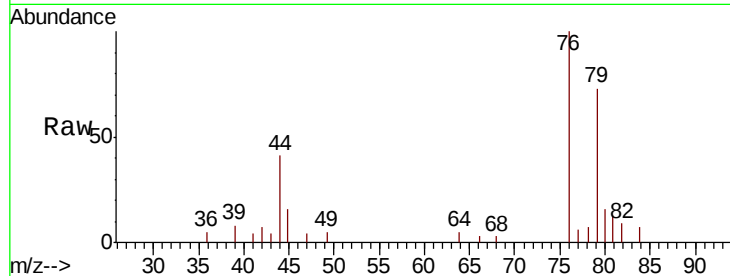




#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 4.55 min Scan# 549
Delta R.T. 0.00 min
Lab File: VL035473.D
Acq: 20 Aug 2020 13:47

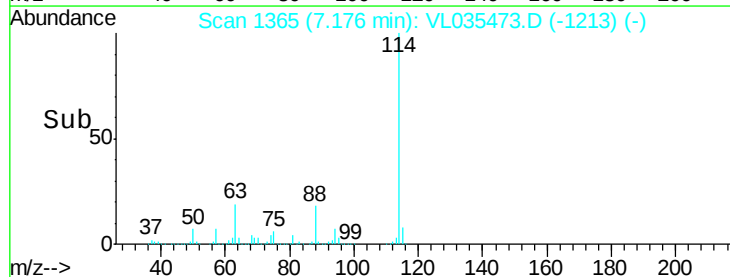
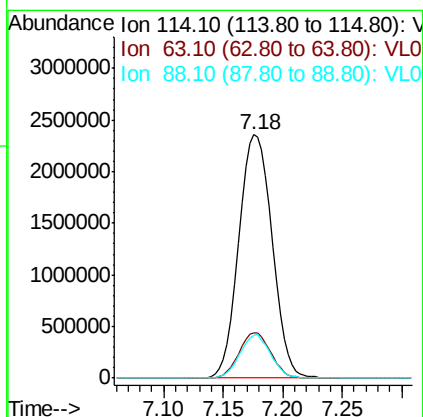
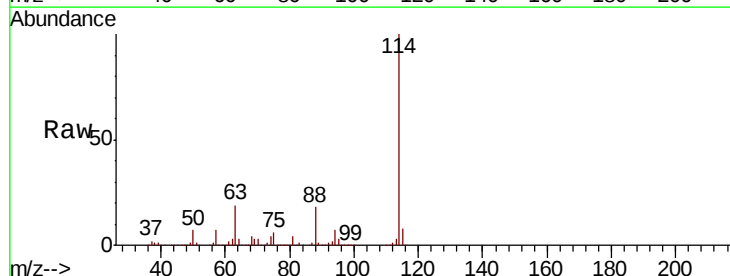
Instrument :
MSVOA_L
ClientSampleId :
SSMP-1DL

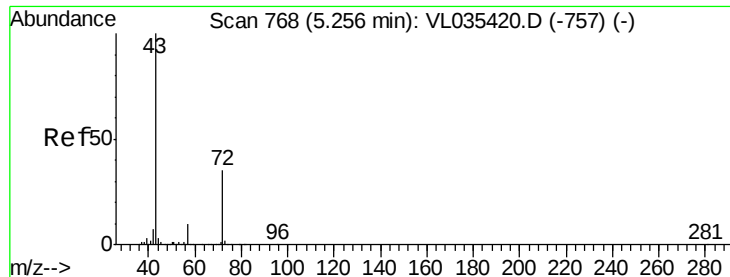
Tot Ion: 76 Resp: 7832
Ion Ratio Lower Upper
76 100
44 20.8 16.8 25.2
78 12.9 7.3 10.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL035473.D
Acq: 20 Aug 2020 13:47

Tgt Ion: 114 Resp: 4586999
Ion Ratio Lower Upper
114 100
63 17.8 23.1 34.7#
88 16.5 15.9 23.9

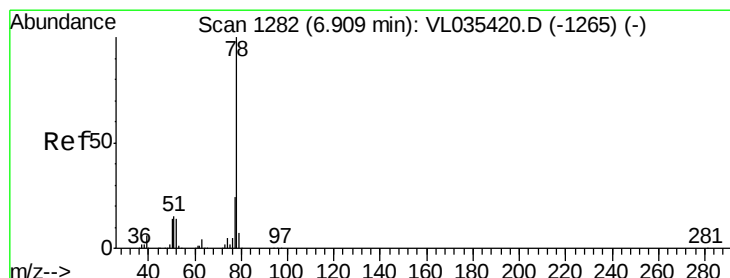
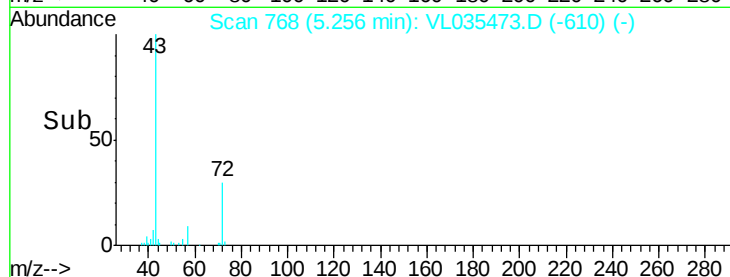
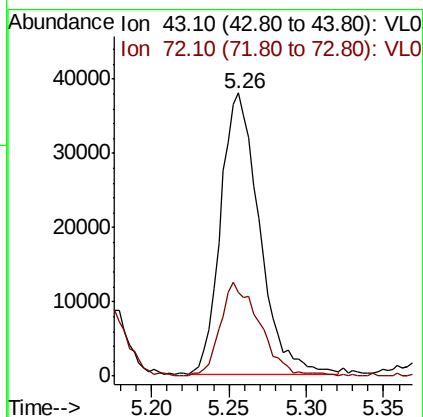
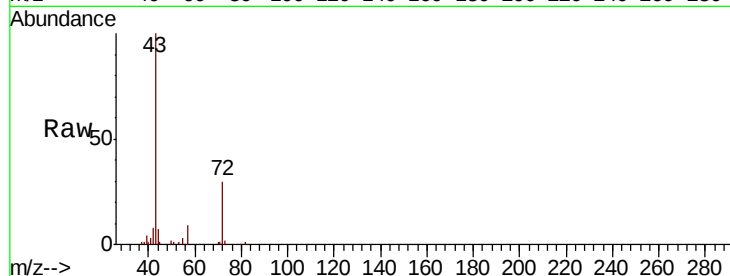




#34
 2-Butanone
 Concen: 0.431 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL035473.D
 Acq: 20 Aug 2020 13:47

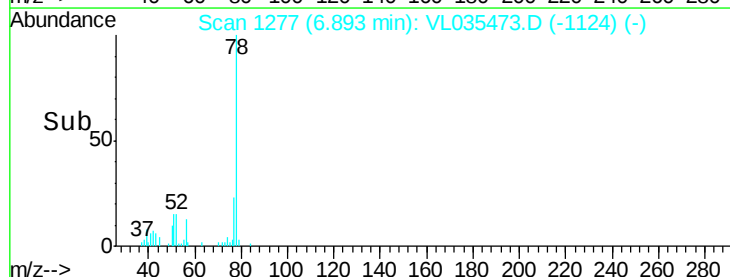
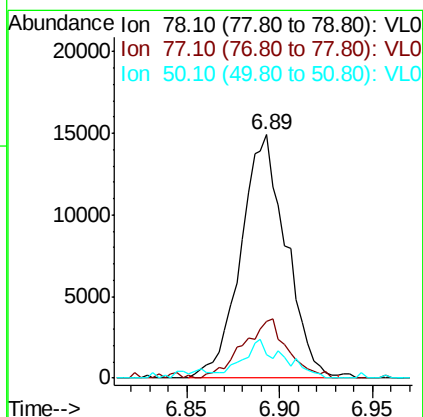
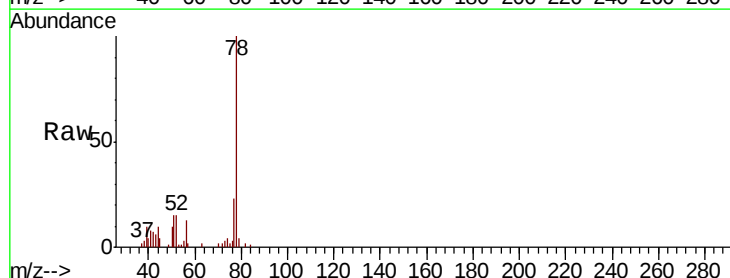
Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-1DL

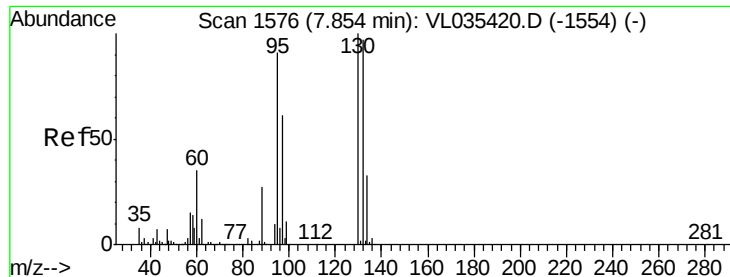
Tot Ion: 43 Resp: 66042
 Ion Ratio Lower Upper
 43 100
 72 34.4 17.6 26.4#



#36
 Benzene
 Concen: 0.075 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VL035473.D
 Acq: 20 Aug 2020 13:47

Tgt Ion: 78 Resp: 25322
 Ion Ratio Lower Upper
 78 100
 77 23.1 19.6 29.4
 50 9.9 16.3 24.5#





#38

Trichloroethene

Concen: 9.159 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DL

Tot Ion:130 Resp: 1715174

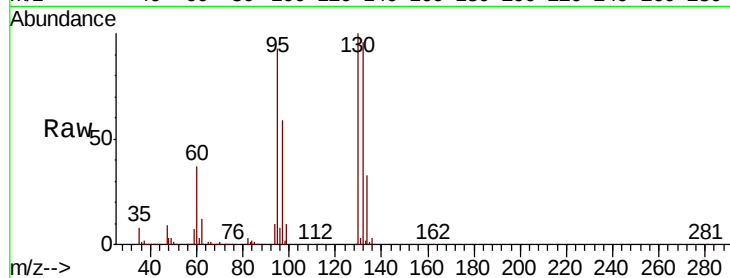
Ion Ratio Lower Upper

130 100

95 93.4 95.8 143.8#

132 96.3 74.3 111.5

97 59.4 62.6 94.0#

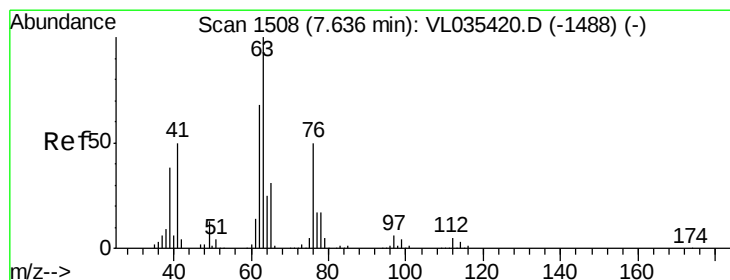
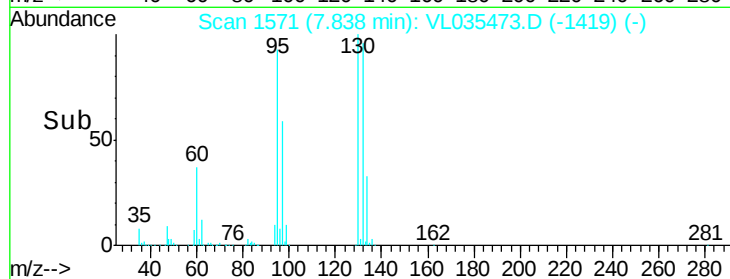
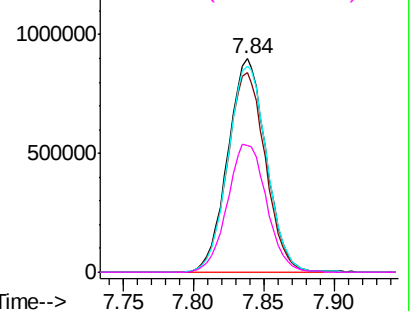


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.358 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

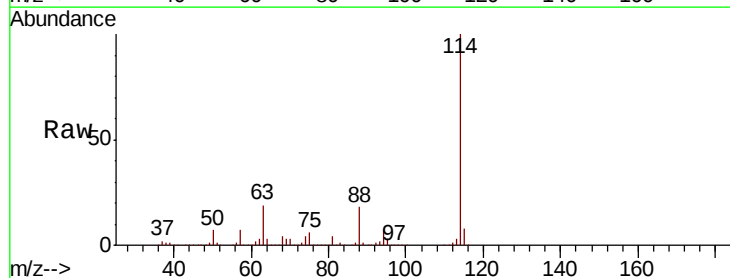
Tgt Ion: 63 Resp: 816408

Ion Ratio Lower Upper

63 100

41 0.0 61.1 91.7#

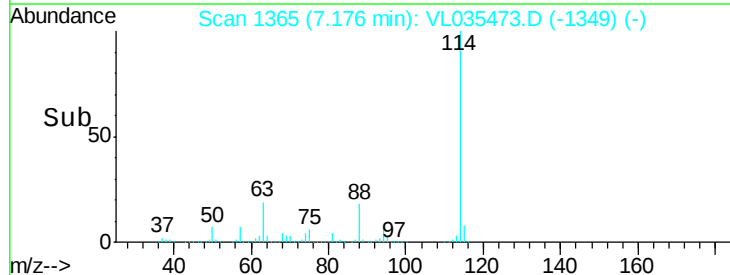
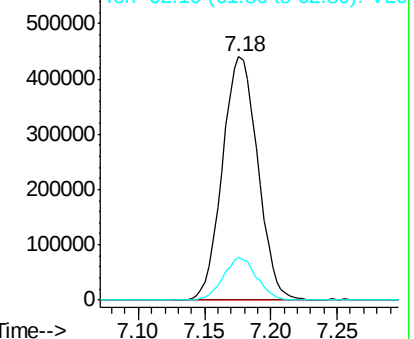
62 17.4 55.3 82.9#

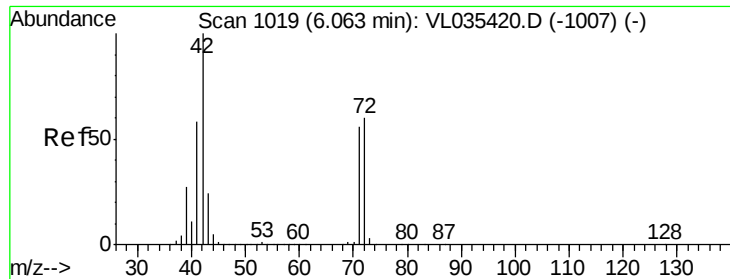


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.067 ppbv

RT: 6.04 min Scan# 1011

Delta R.T. -0.02 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DL

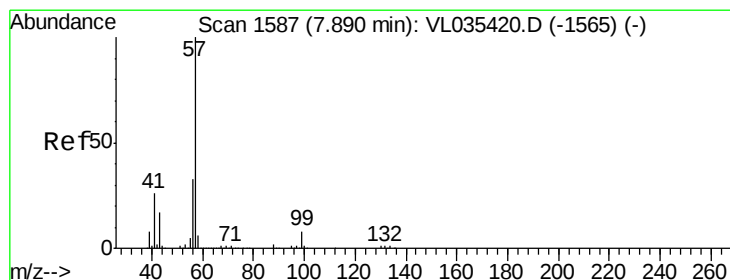
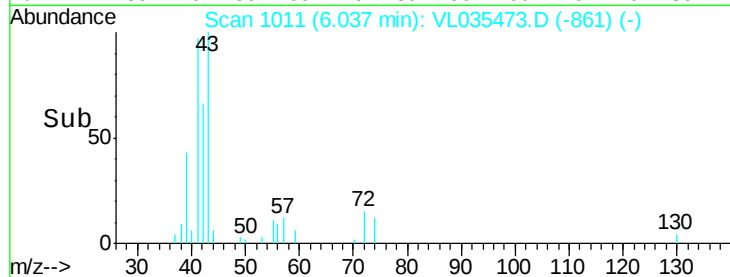
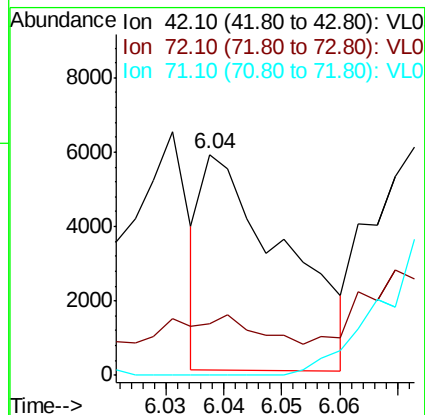
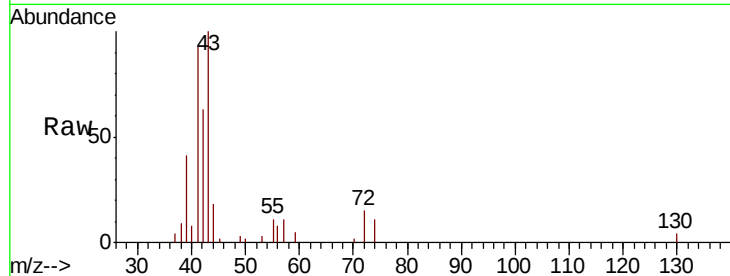
Tot Ion: 42 Resp: 5700

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.2#

71 0.0 28.9 43.3#



#44

2,2,4-Trimethylpentane

Concen: 0.037 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

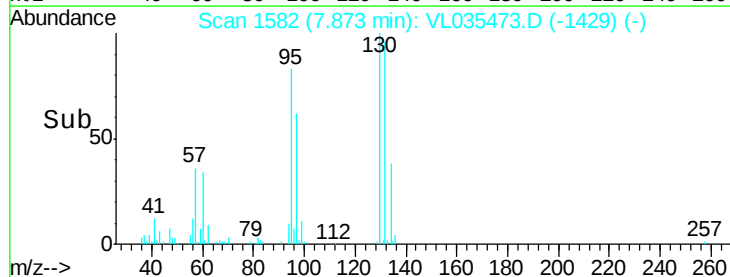
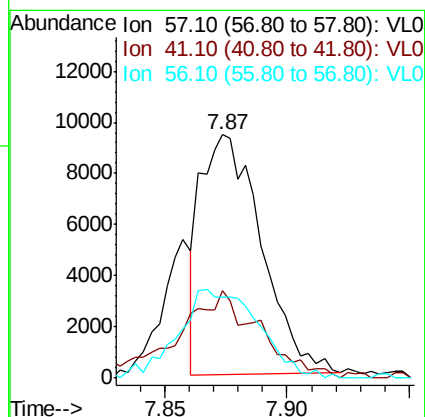
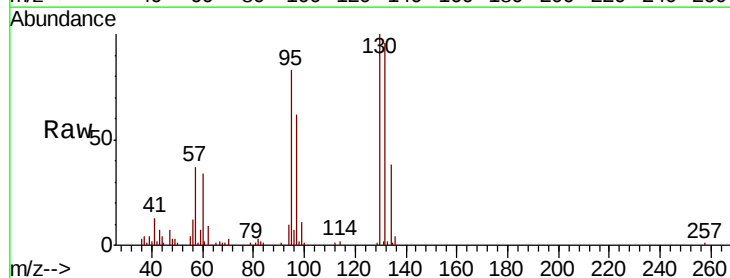
Tgt Ion: 57 Resp: 16178

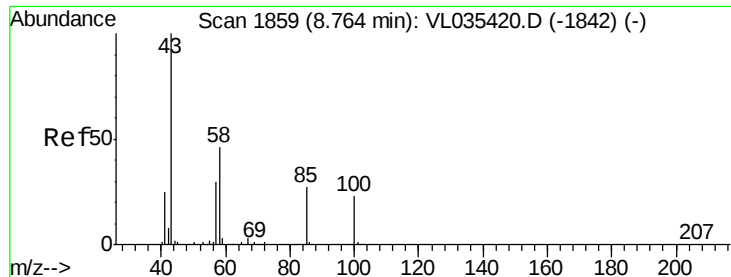
Ion Ratio Lower Upper

57 100

41 63.3 27.2 40.8#

56 50.1 25.4 38.0#





#50

4-Methyl-2-Pentanone

Concen: 0.059 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

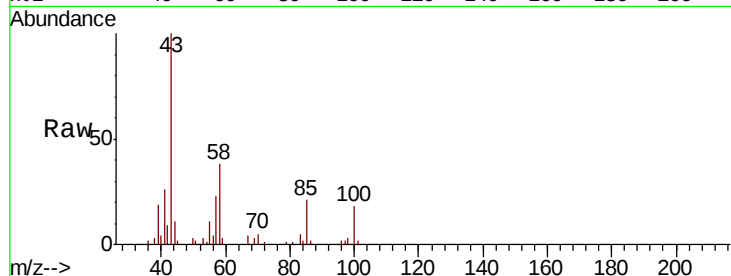
SSMP-1DL

Tot Ion: 43 Resp: 12885

Ion Ratio Lower Upper

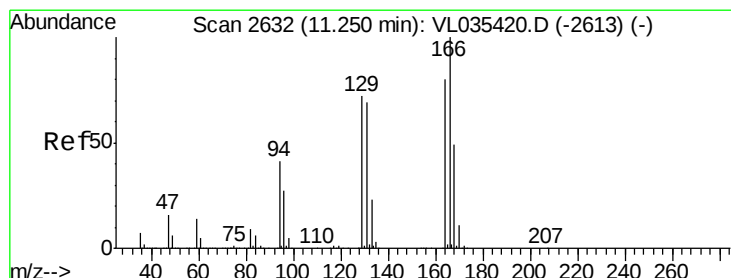
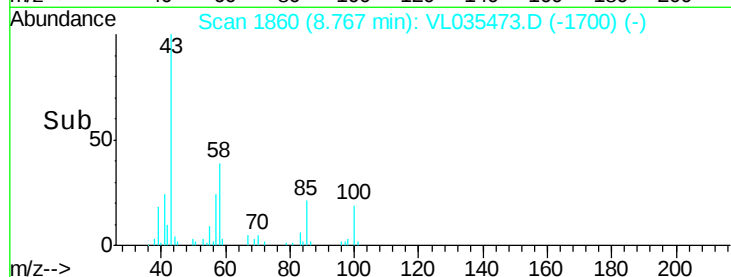
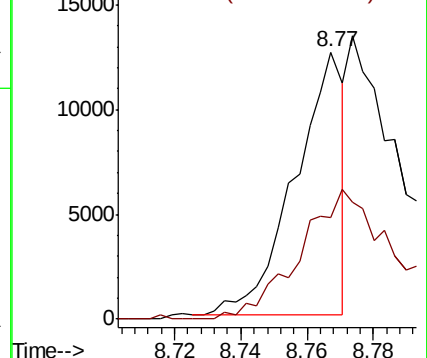
43 100

58 0.0 28.7 43.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#52

Tetrachloroethene

Concen: 6.800 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Tgt Ion: 164 Resp: 1396480

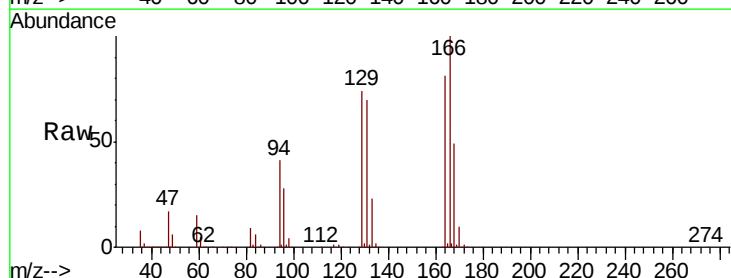
Ion Ratio Lower Upper

164 100

166 123.1 103.4 155.0

129 90.5 90.2 135.4

131 86.0 91.7 137.5#

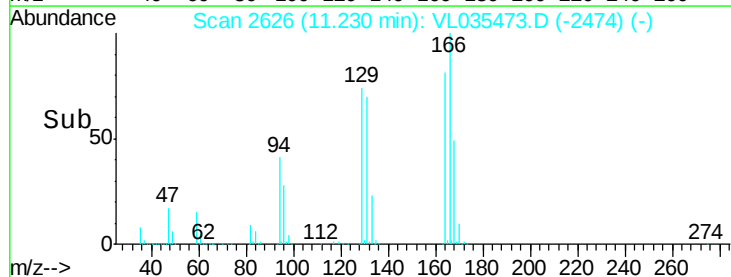
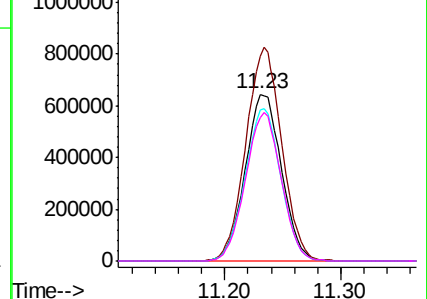


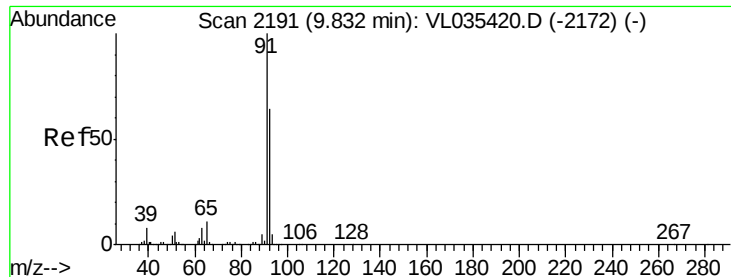
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.501 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

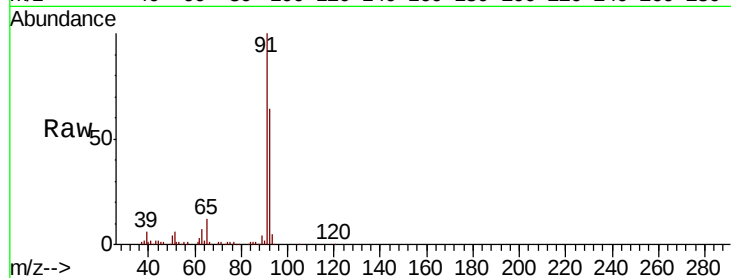
SSMP-1DL

Tot Ion: 91 Resp: 217321

Ion Ratio Lower Upper

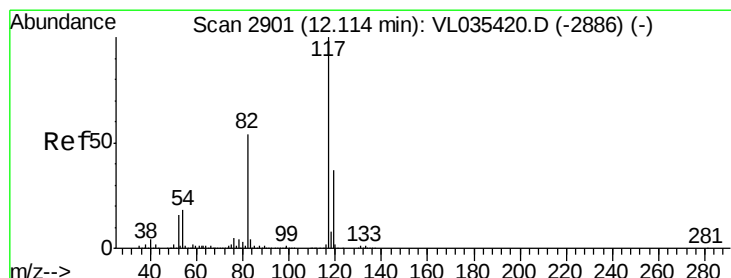
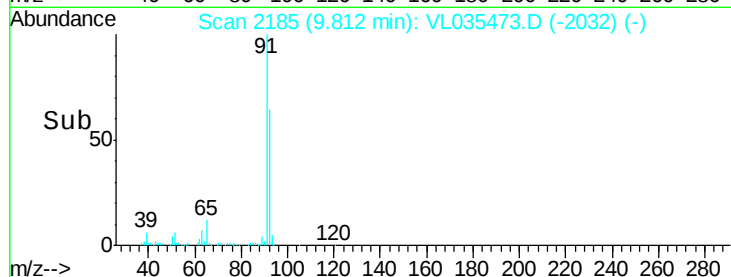
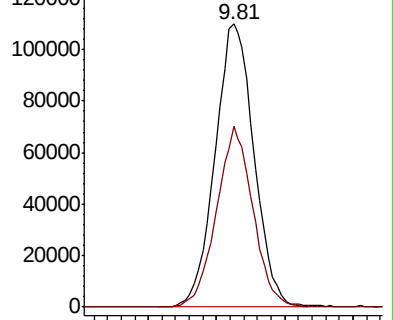
91 100

92 59.8 49.1 73.7



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: 12.10 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

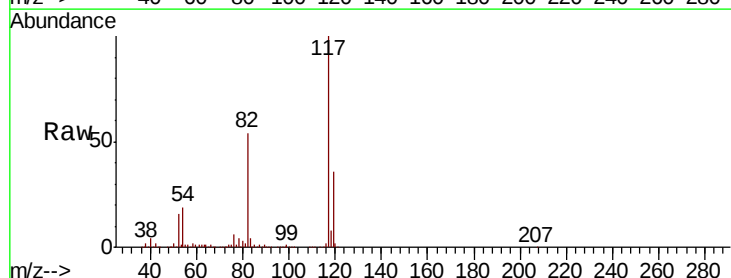
Tgt Ion: 117 Resp: 4576549

Ion Ratio Lower Upper

117 100

82 53.4 57.4 86.0#

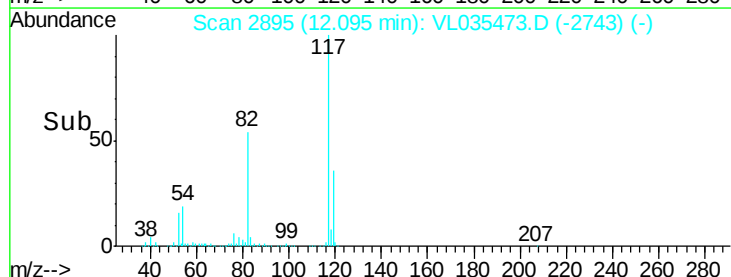
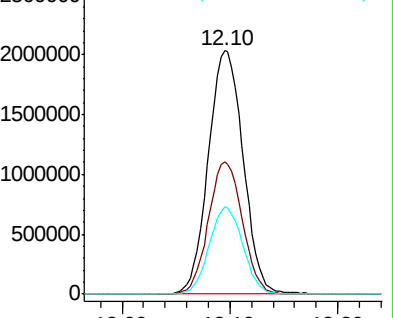
119 34.7 28.4 42.6

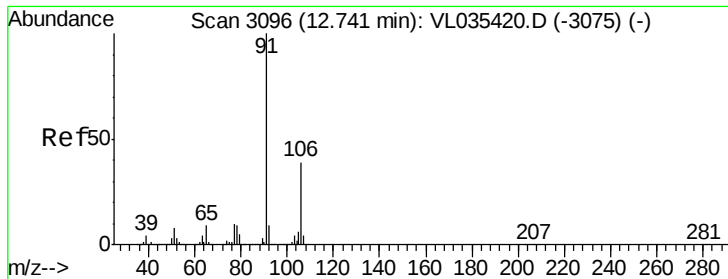


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.067 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

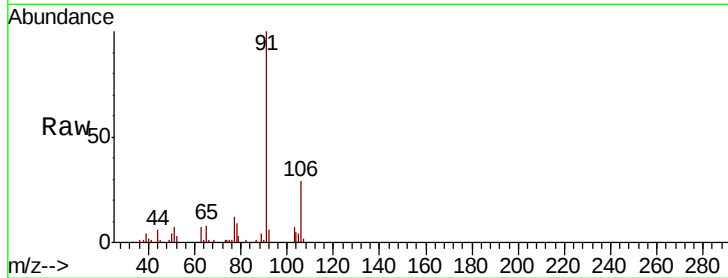
SSMP-1DL

Tot Ion: 91 Resp: 36989

Ion Ratio Lower Upper

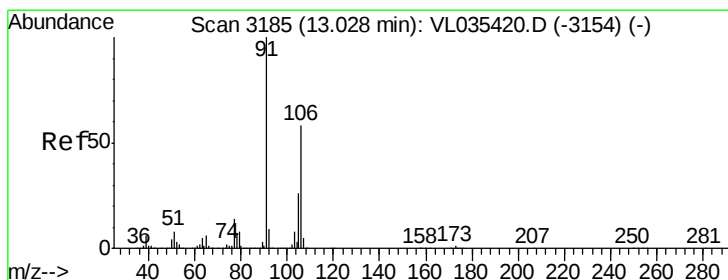
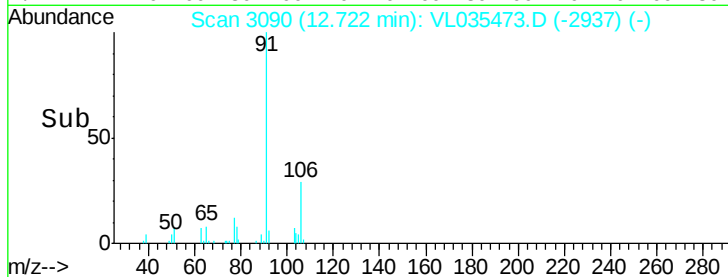
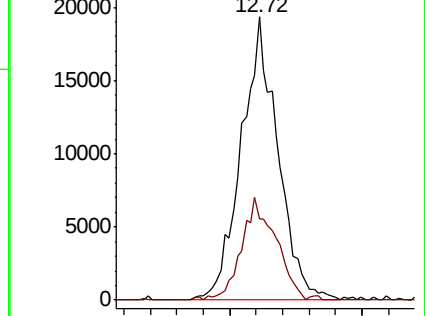
91 100

106 28.7 24.1 36.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.088 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. -0.02 min

Lab File: VL035473.D

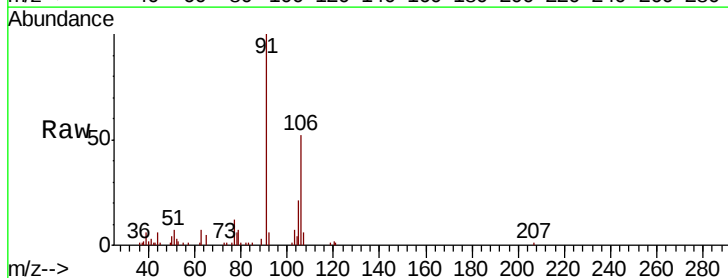
Acq: 20 Aug 2020 13:47

Tgt Ion: 91 Resp: 40884

Ion Ratio Lower Upper

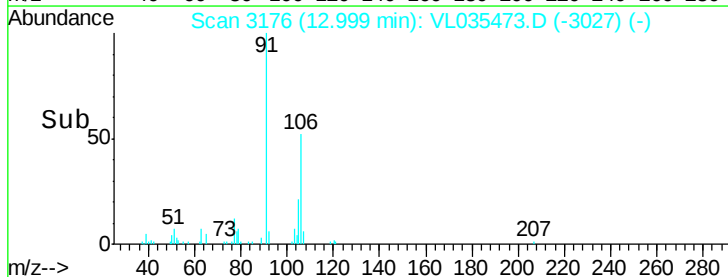
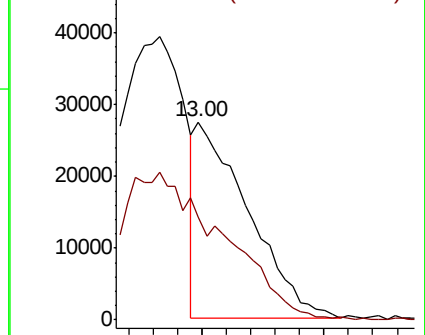
91 100

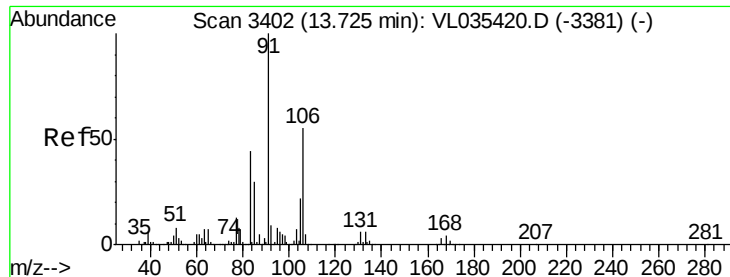
106 0.0 34.0 51.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

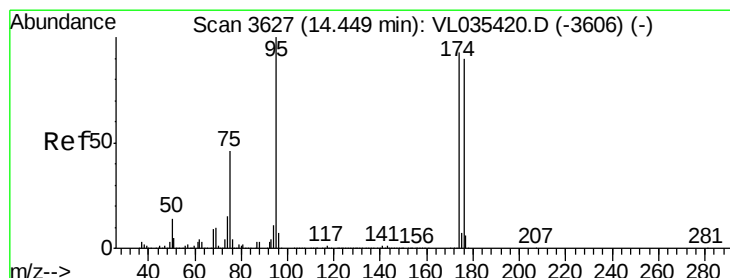
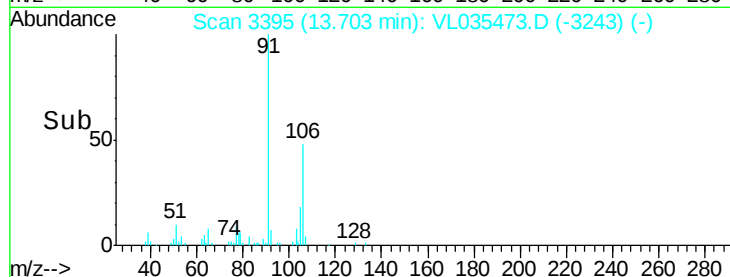
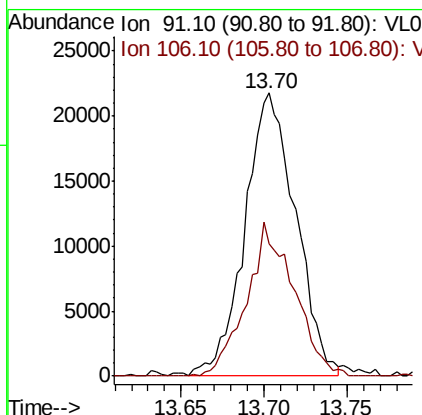
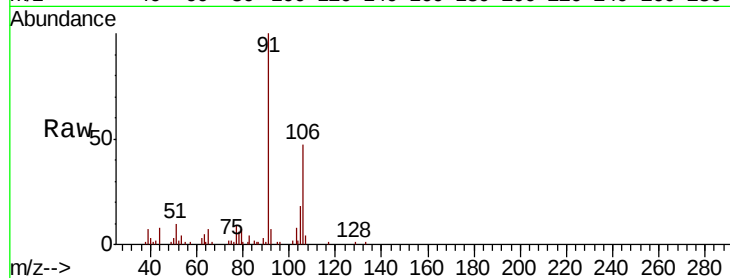




#60
o-Xylene
Concen: 0.102 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL035473.D
Acq: 20 Aug 2020 13:47

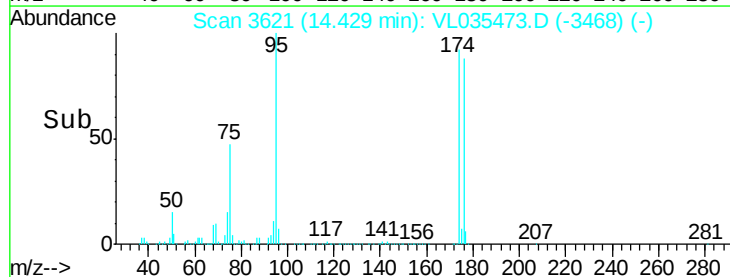
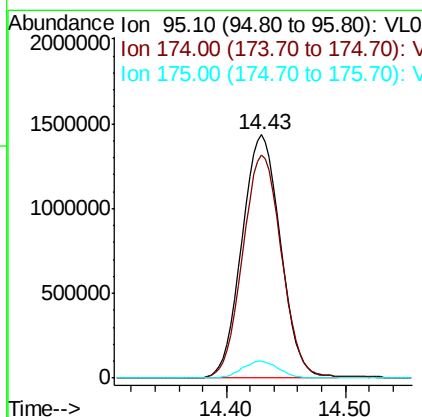
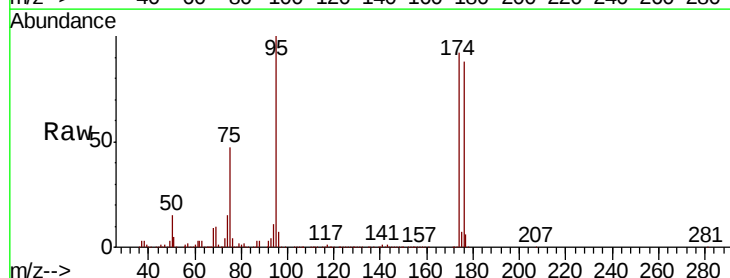
Instrument :
MSVOA_L
ClientSampled :
SSMP-1DL

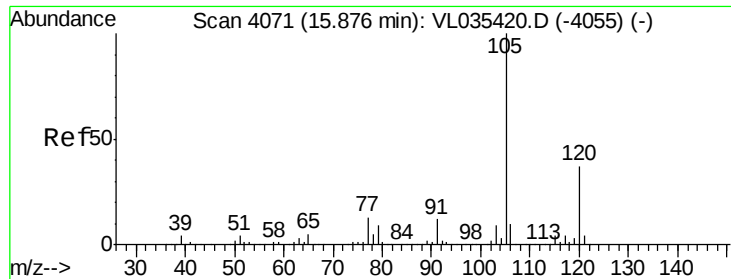
Tot Ion: 91 Resp: 46397
Ion Ratio Lower Upper
91 100
106 50.5 21.8 65.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.093 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL035473.D
Acq: 20 Aug 2020 13:47

Tgt Ion: 95 Resp: 3233638
Ion Ratio Lower Upper
95 100
174 93.2 44.0 66.0#
175 6.8 3.2 4.8#





#72

4-Ethyltoluene

Concen: 0.030 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Instrument :

MSVOA_L

ClientSampleId :

SSMP-1DL

Tot Ion:105 Resp: 17899

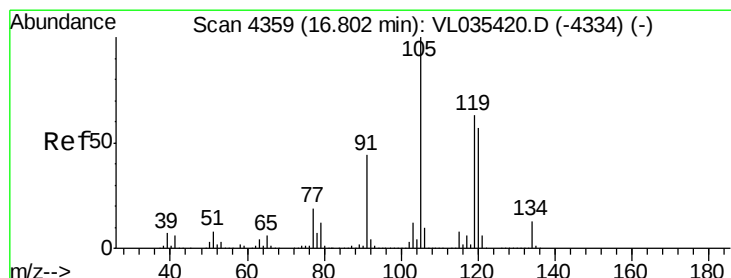
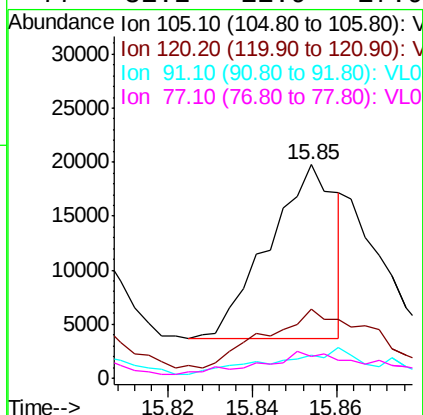
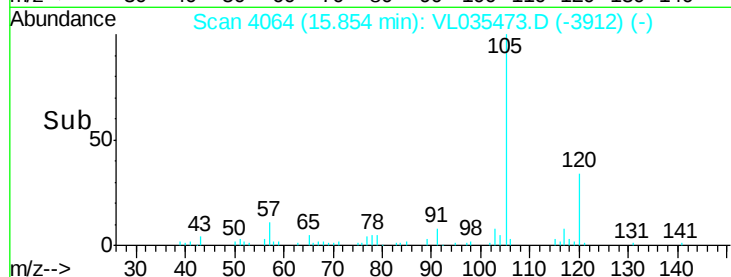
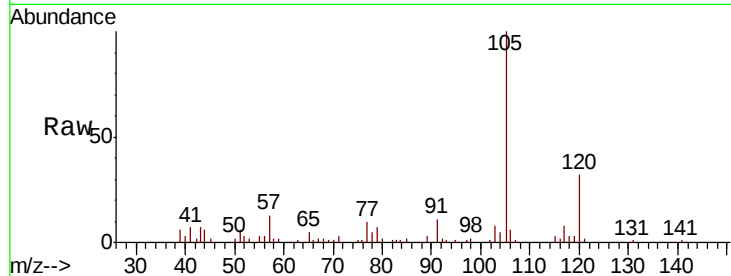
Ion Ratio Lower Upper

105 100

120 74.3 22.7 34.1#

91 28.9 10.8 16.2#

77 31.2 11.9 17.9#



#74

1,2,4-Trimethylbenzene

Concen: 0.284 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL035473.D

Acq: 20 Aug 2020 13:47

Tgt Ion:105 Resp: 170949

Ion Ratio Lower Upper

105 100

120 45.5 37.8 56.8

91 11.0 40.0 60.0#

77 13.1 18.8 28.2#

