

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035482.D
 Acq On : 20 Aug 2020 19:46
 Operator : SY/AP
 Sample : L3743-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-4DL

Quant Time: Aug 21 06:01:55 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	5.67	49	1091102	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5025777	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4920810	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3514484	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

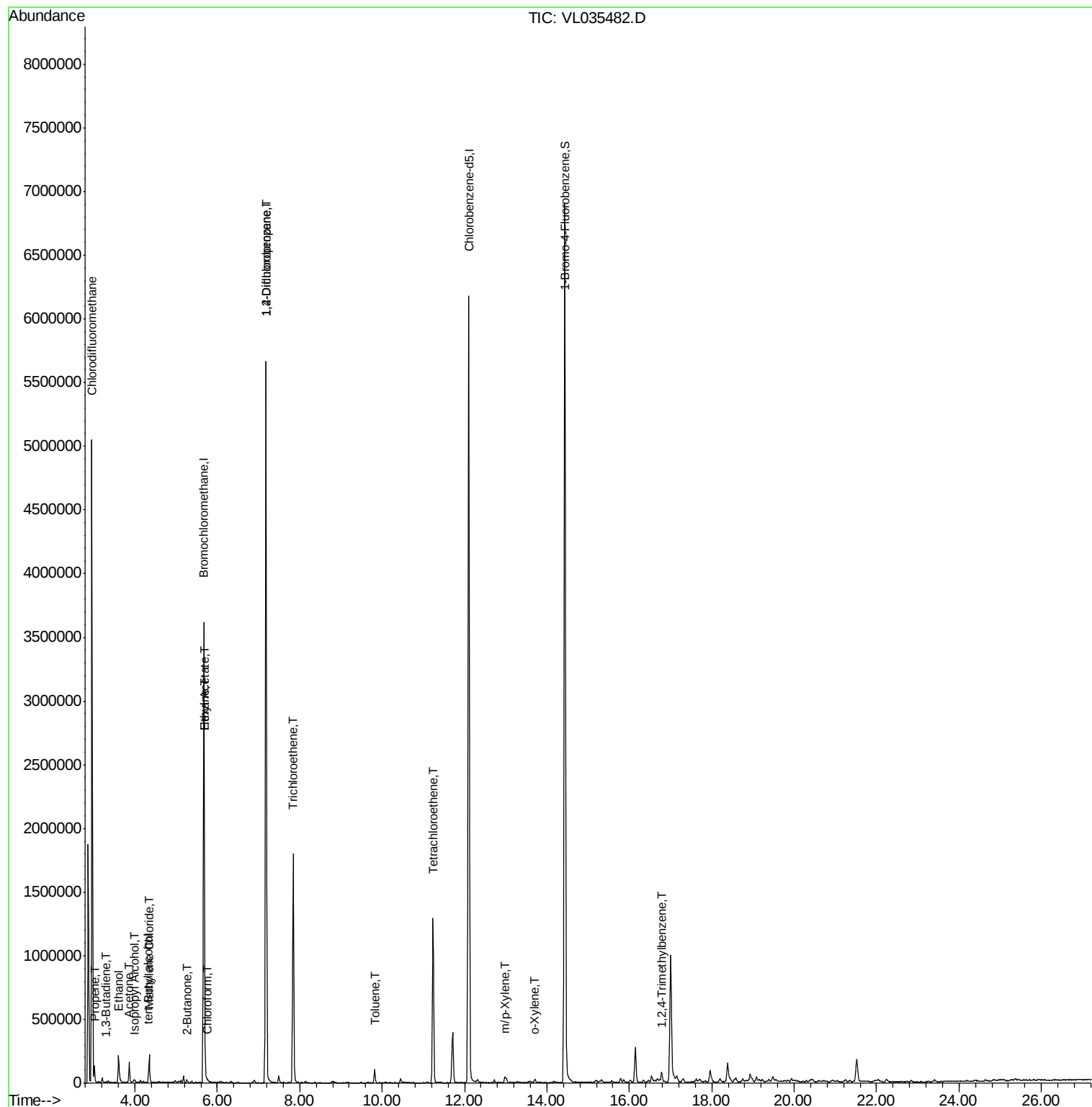
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	2783035	20.343	ppbv #	58
9) Propene	3.02	41	30880	0.562	ppbv #	72
13) Ethanol	3.60	45	224622	11.149	ppbv	100
15) Acetone	3.86	43	143171	1.140	ppbv #	74
16) 1,3-Butadiene	3.30	39	1826	0.036	ppbv #	32
17) tert-Butyl alcohol	4.32	59	6319	0.039	ppbv #	86
19) Isopropyl Alcohol	3.98	45	22728	0.263	ppbv #	1
20) Methylene Chloride	4.35	84	96417	0.952	ppbv #	67
25) Ethyl Acetate	5.69	43	20981	0.086	ppbv #	83
26) Hexane	5.69	57	33625	0.244	ppbv #	34
29) Chloroform	5.75	83	9309	0.034	ppbv	87
34) 2-Butanone	5.26	43	12627	0.075	ppbv #	54
38) Trichloroethene	7.84	130	670329	3.267	ppbv #	83
39) 1,2-Dichloropropane	7.18	63	874053	7.190	ppbv #	24
52) Tetrachloroethene	11.24	164	399283	1.775	ppbv #	82
53) Toluene	9.82	91	85910	0.181	ppbv	99
59) m/p-Xylene	13.01	91	20011	0.040	ppbv #	33
60) o-Xylene	13.71	91	21209	0.043	ppbv	86
74) 1,2,4-Trimethylbenzene	16.79	105	61335	0.095	ppbv #	71

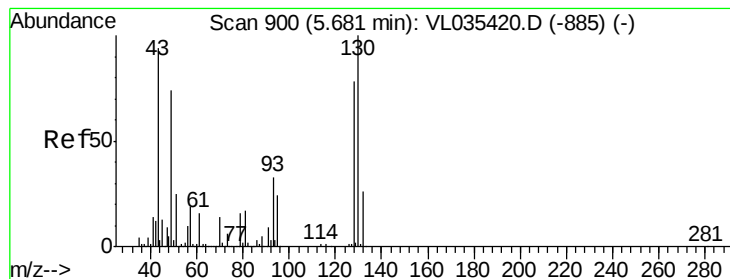
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL035482.D

Acq: 20 Aug 2020 19:46

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

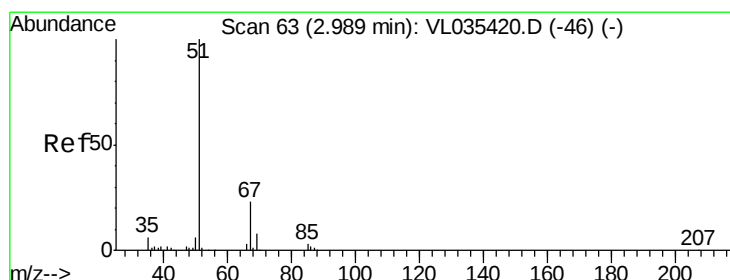
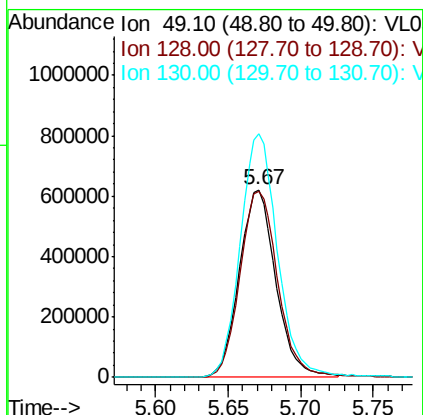
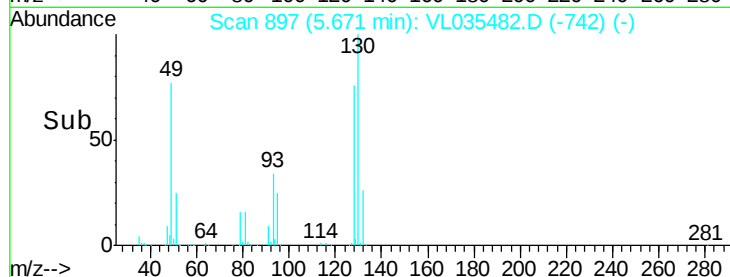
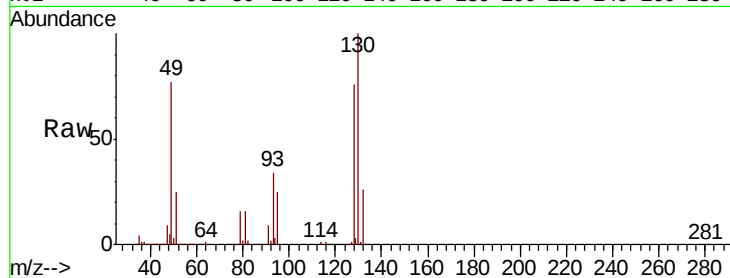
Tot Ion: 49 Resp: 1091102

Ion Ratio Lower Upper

49 100

128 103.3 20.9 62.7#

130 133.3 26.7 80.1#



#3

Chlorodifluoromethane

Concen: 20.343 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL035482.D

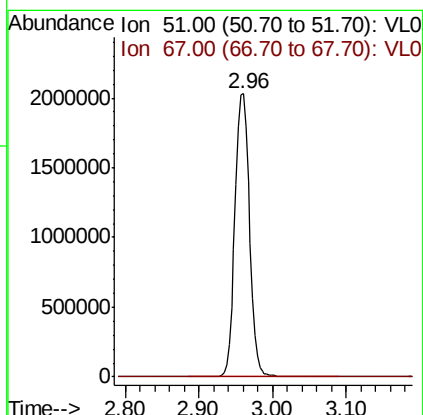
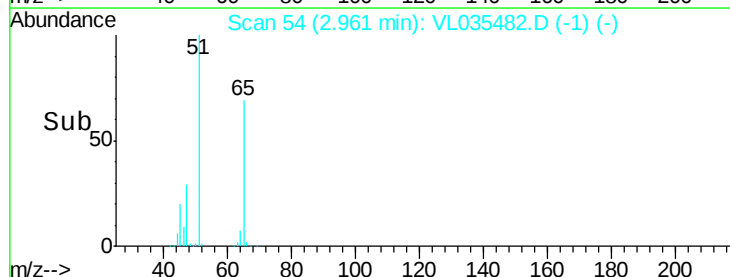
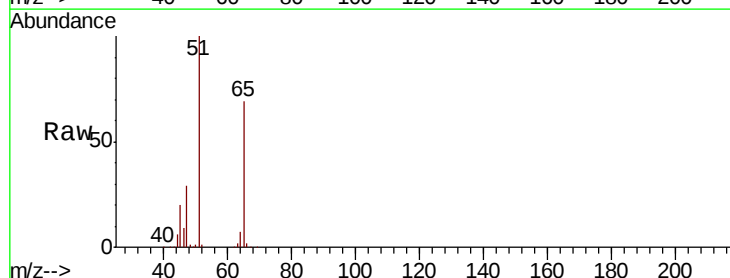
Acq: 20 Aug 2020 19:46

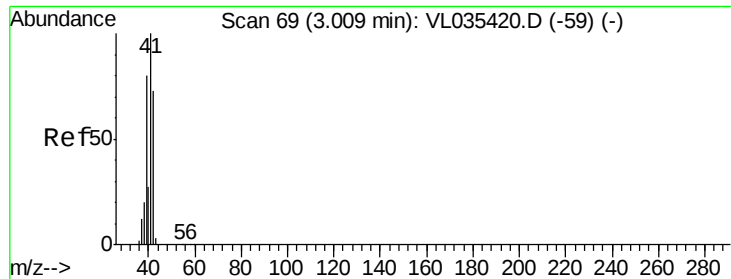
Tgt Ion: 51 Resp: 2783035

Ion Ratio Lower Upper

51 100

67 0.1 15.0 22.6#





#9

Propene

Concen: 0.562 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035482.D

Acq: 20 Aug 2020 19:46

Instrument :

MSVOA_L

ClientSampleId :

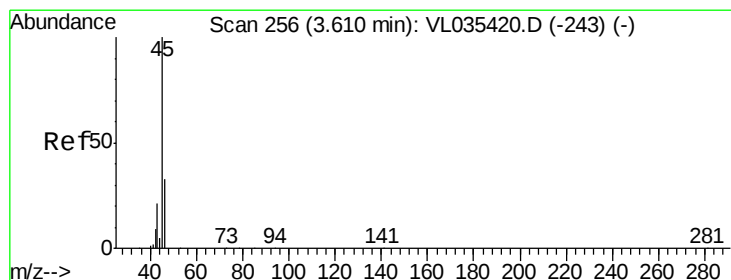
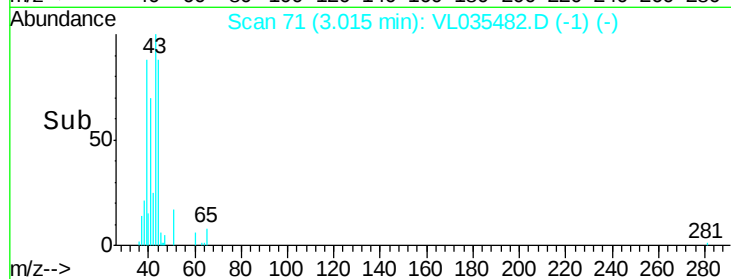
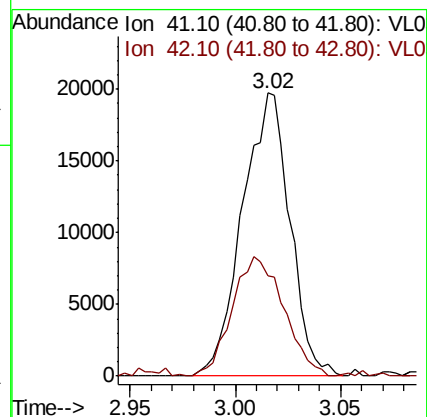
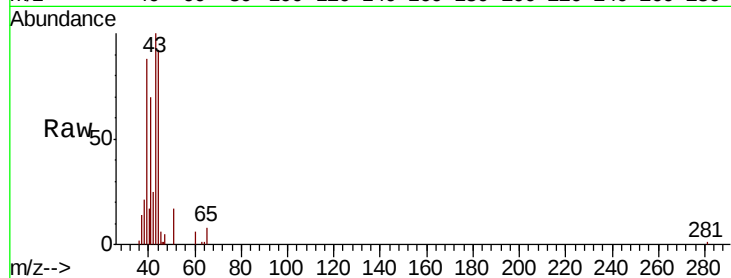
SSMP-4DL

Tot Ion: 41 Resp: 30880

Ion Ratio Lower Upper

41 100

42 46.8 55.5 83.3#



#13

Ethanol

Concen: 11.149 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL035482.D

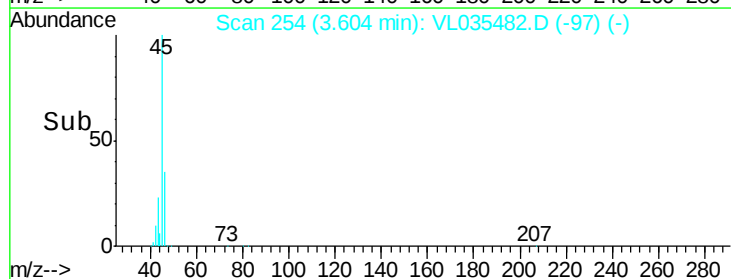
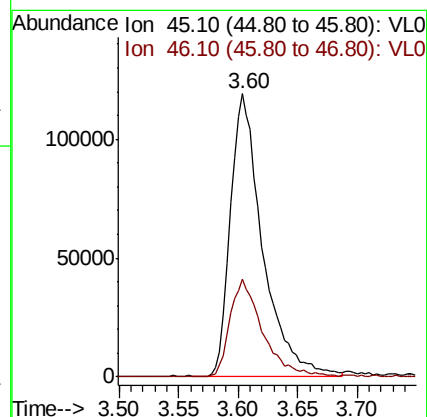
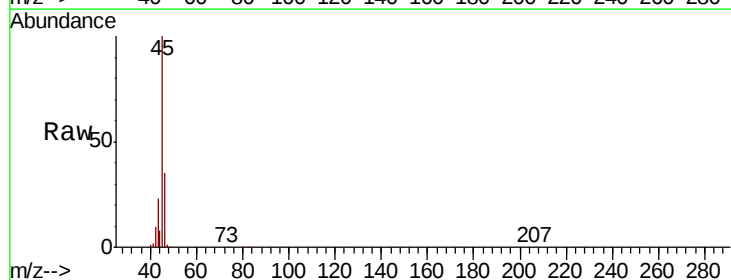
Acq: 20 Aug 2020 19:46

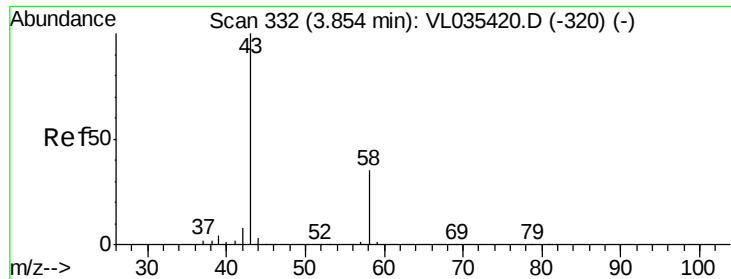
Tgt Ion: 45 Resp: 224622

Ion Ratio Lower Upper

45 100

46 35.5 14.2 56.6





#15

Acetone

Concen: 1.140 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035482.D

Acq: 20 Aug 2020 19:46

Instrument :

MSVOA_L

ClientSampleId :

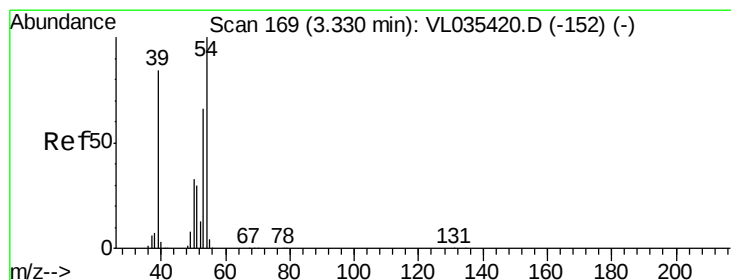
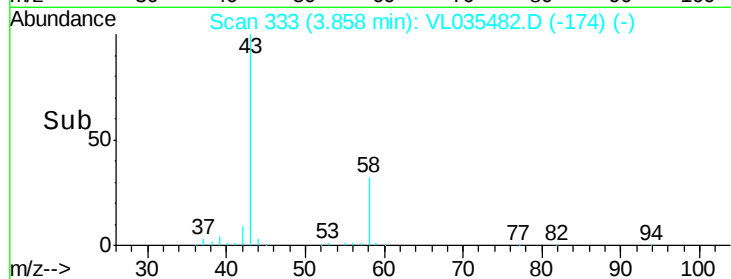
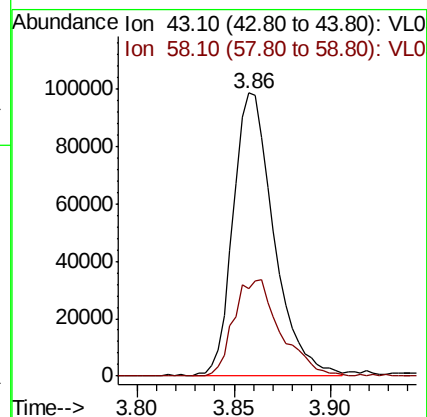
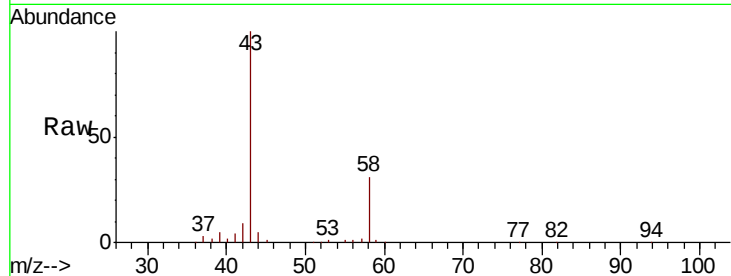
SSMP-4DL

Tot Ion: 43 Resp: 143171

Ion Ratio Lower Upper

43 100

58 39.5 21.0 31.6#



#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL035482.D

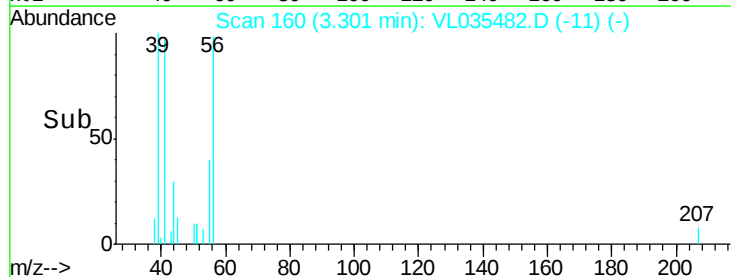
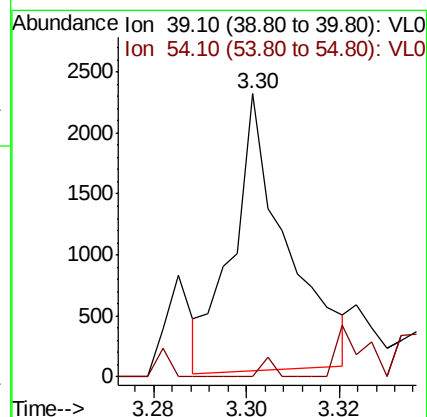
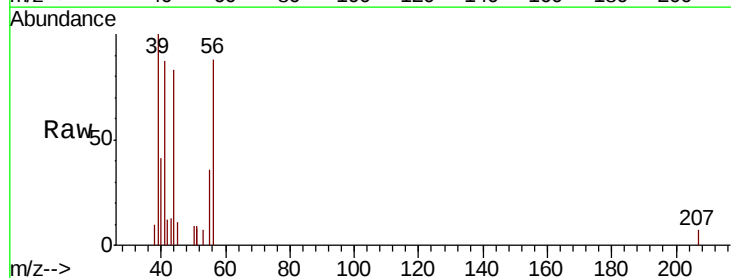
Acq: 20 Aug 2020 19:46

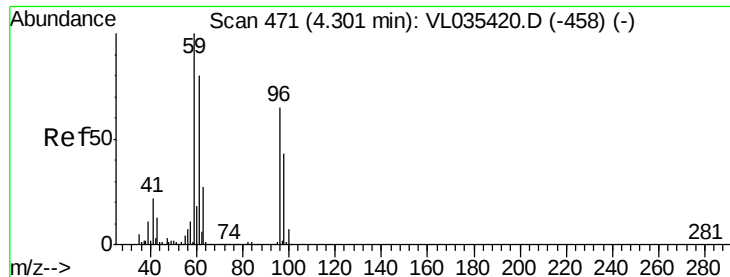
Tgt Ion: 39 Resp: 1826

Ion Ratio Lower Upper

39 100

54 20.4 64.4 96.6#





#17

tert-Butyl alcohol

Concen: 0.039 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.03 min

Lab File: VL035482.D

Acq: 20 Aug 2020 19:46

Instrument :

MSVOA_L

ClientSampleId :

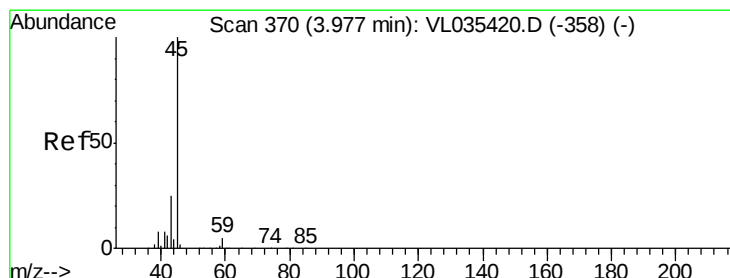
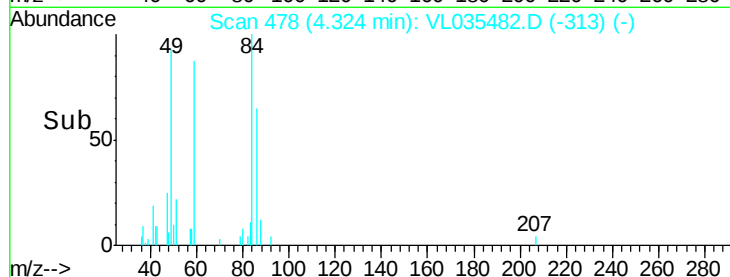
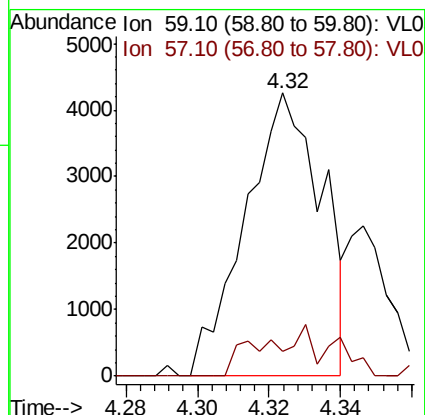
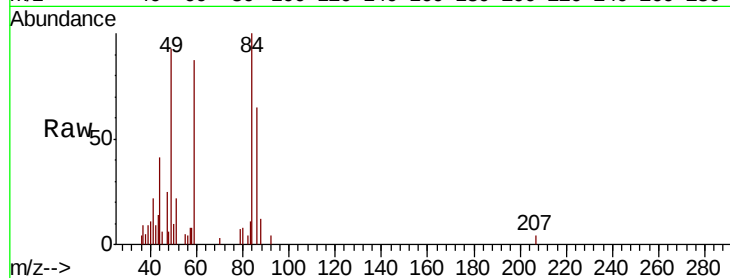
SSMP-4DL

Tot Ion: 59 Resp: 6319

Ion Ratio Lower Upper

59 100

57 16.3 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 0.263 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL035482.D

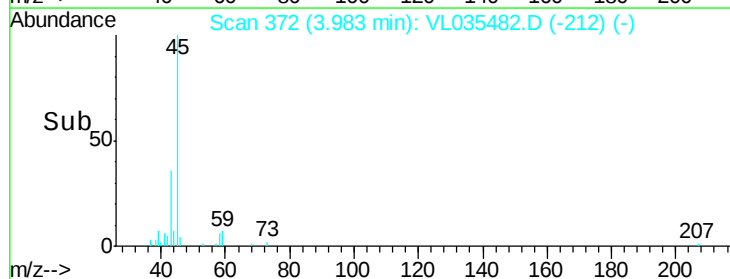
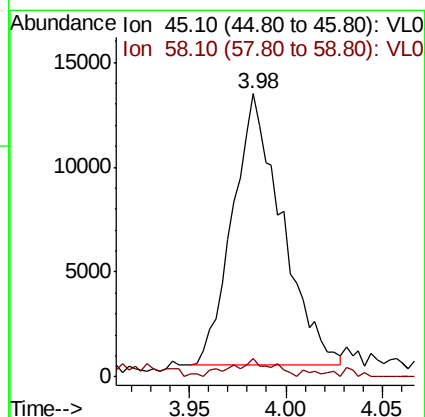
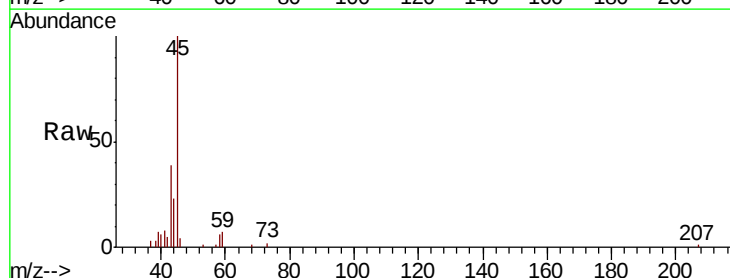
Acq: 20 Aug 2020 19:46

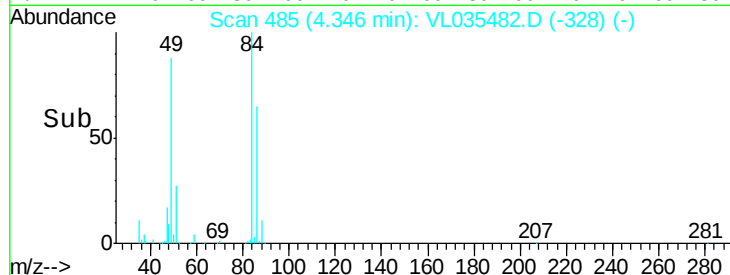
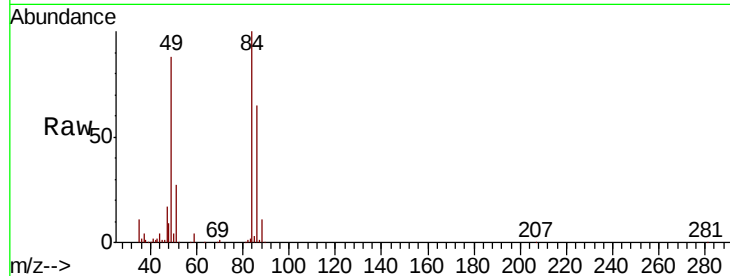
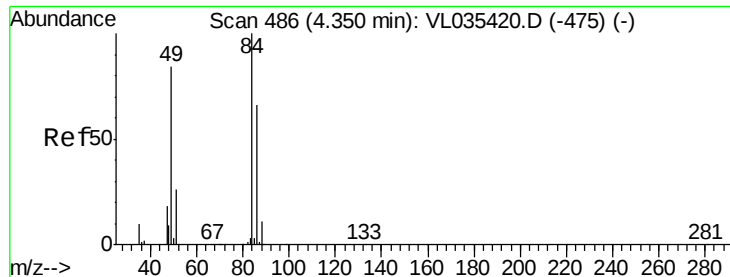
Tgt Ion: 45 Resp: 22728

Ion Ratio Lower Upper

45 100

58 250.2 1.0 1.6#

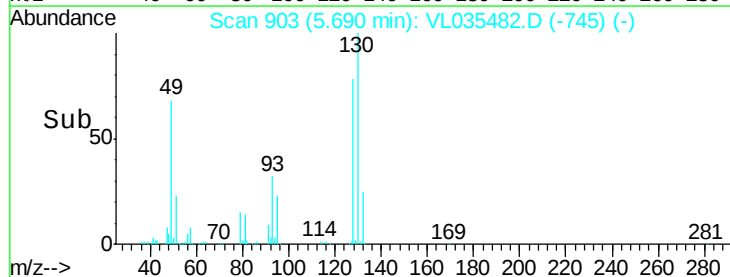
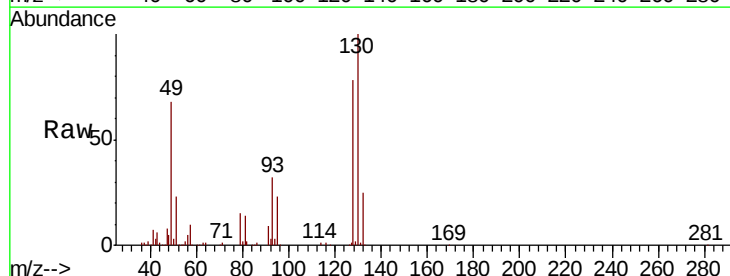
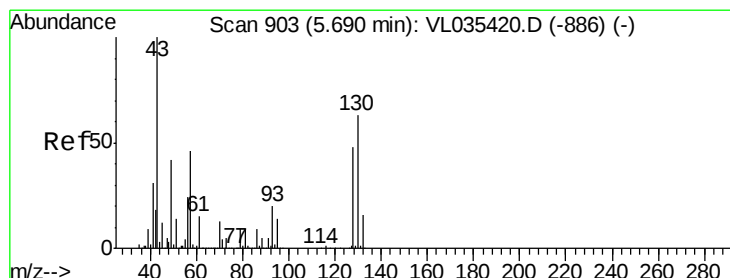
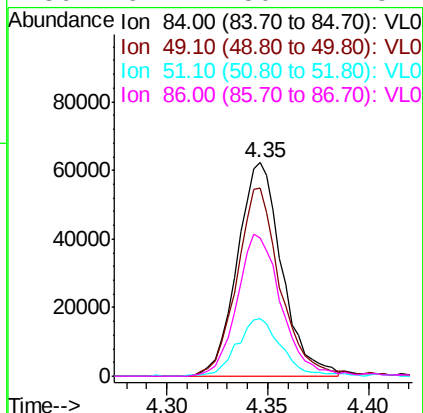




#20
Methvlene Chloride
Concen: 0.952 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

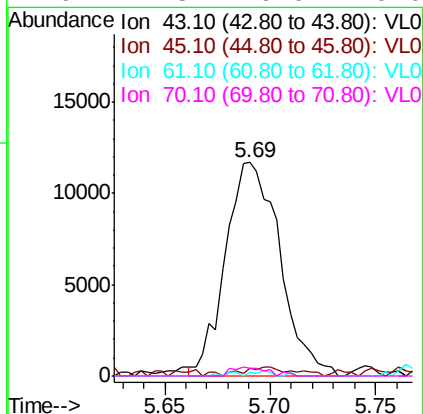
Instrument :
MSVOA_L
ClientSampleId :
SSMP-4DL

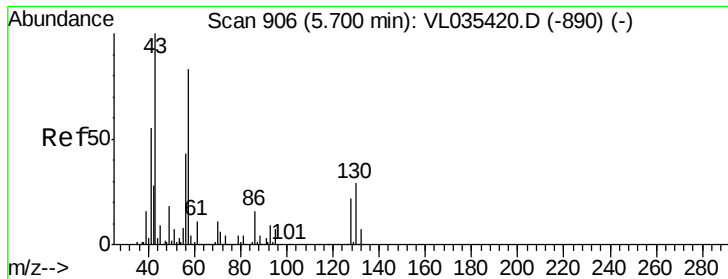
Tot Ion:	84	Resp:	96417
Ion	Ratio	Lower	Upper
84	100		
49	88.0	118.6	177.8#
51	26.8	36.4	54.6#
86	64.7	50.2	75.4



#25
Ethyl Acetate
Concen: 0.086 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

Tgt Ion:	43	Resp:	20981
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.3	12.5#
61	1.5	7.6	11.4#
70	2.8	6.0	9.0#

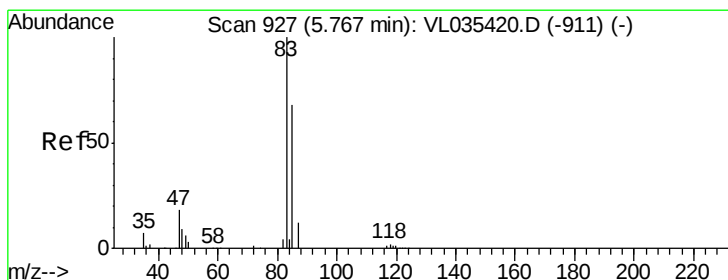
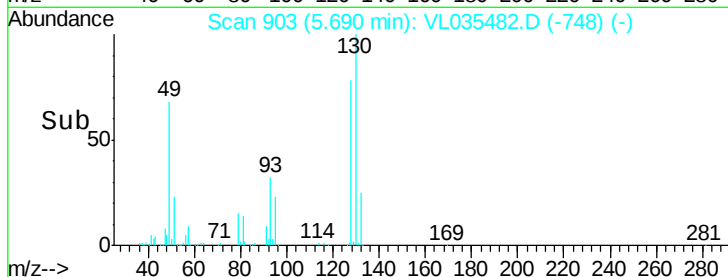
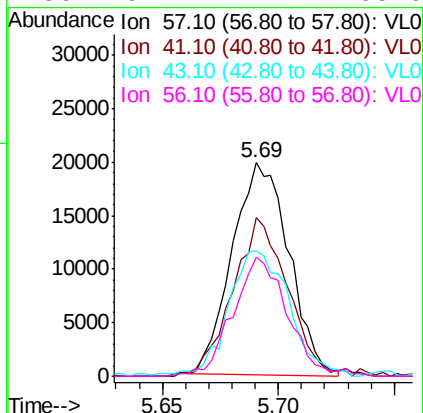
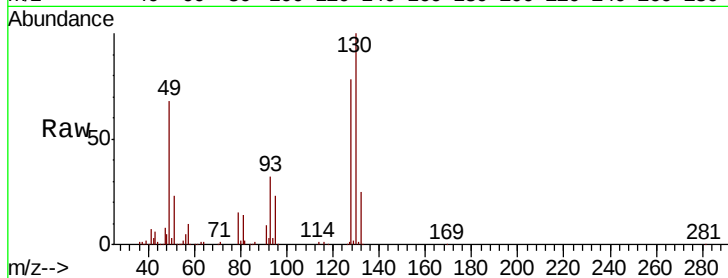




#26
Hexane
Concen: 0.244 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

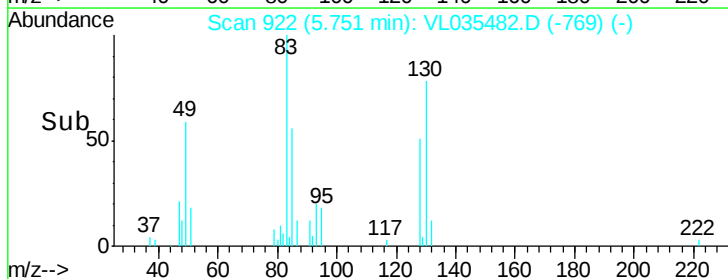
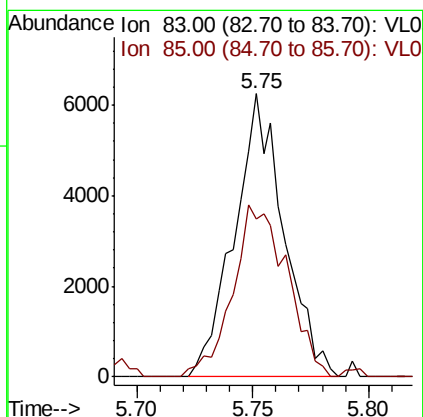
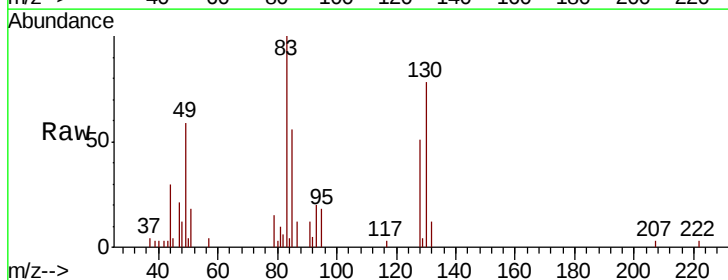
Instrument :
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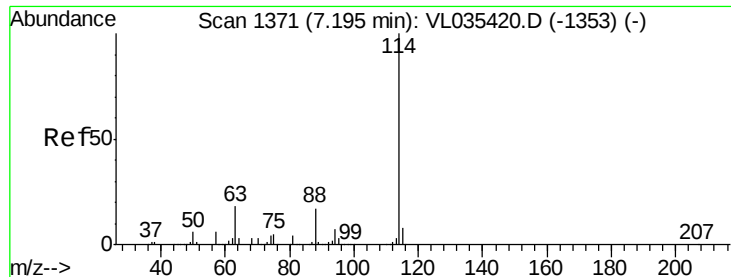
Tot Ion: 57 Resp: 33625
Ion Ratio Lower Upper
57 100
41 73.8 75.5 113.3#
43 63.8 181.7 272.5#
56 54.4 42.4 63.6



#29
Chloroform
Concen: 0.034 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

Tgt Ion: 83 Resp: 9309
Ion Ratio Lower Upper
83 100
85 55.8 52.7 79.1

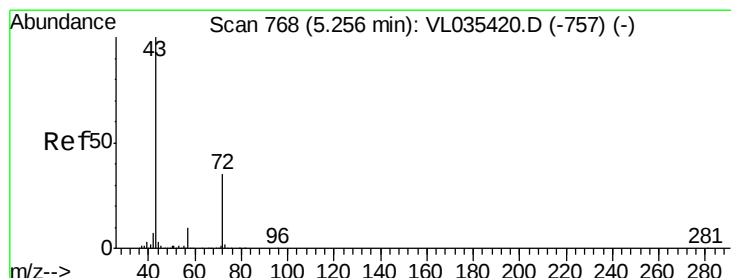
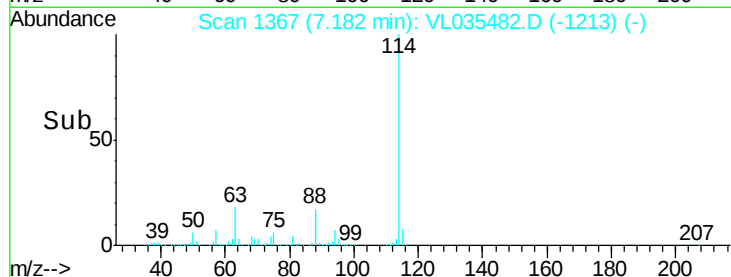
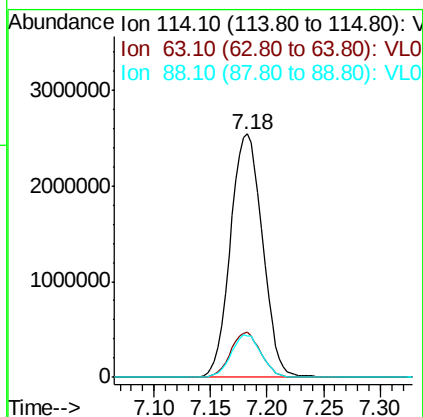
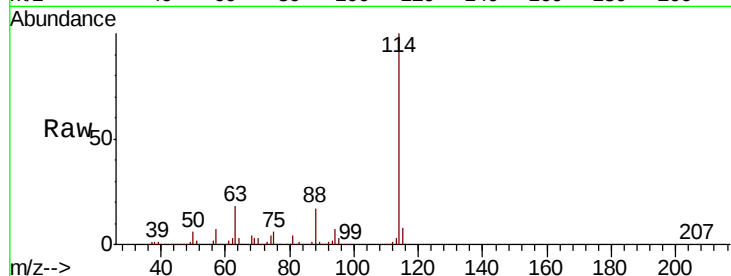




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: VL035482.D
 Acq: 20 Aug 2020 19:46

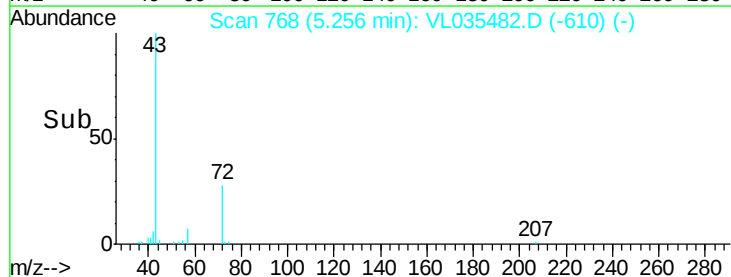
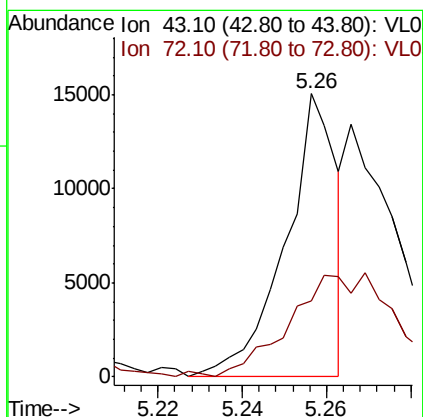
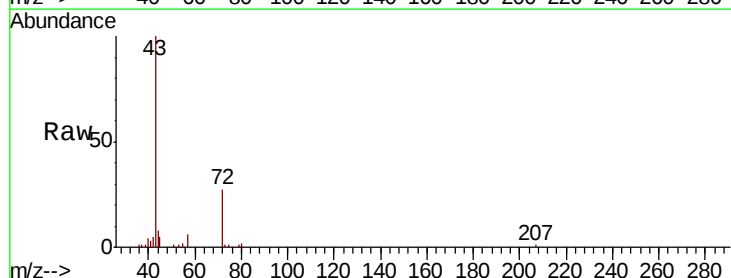
Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-4DL

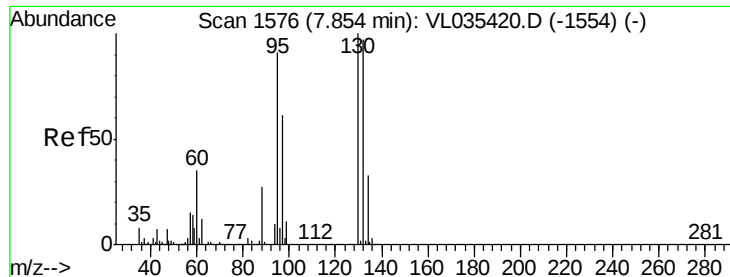
Tot Ion:114 Resp: 5025777
 Ion Ratio Lower Upper
 114 100
 63 17.5 23.1 34.7#
 88 16.5 15.9 23.9



#34
 2-Butanone
 Concen: 0.075 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL035482.D
 Acq: 20 Aug 2020 19:46

Tgt Ion: 43 Resp: 12627
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.6 26.4#





#38

Trichloroethene

Concen: 3.267 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL035482.D

Acq: 20 Aug 2020 19:46

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

Tot Ion:130 Resp: 670329

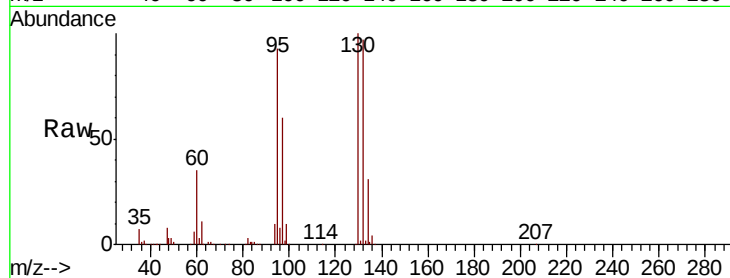
Ion Ratio Lower Upper

130 100

95 93.4 95.8 143.8#

132 97.3 74.3 111.5

97 60.4 62.6 94.0#

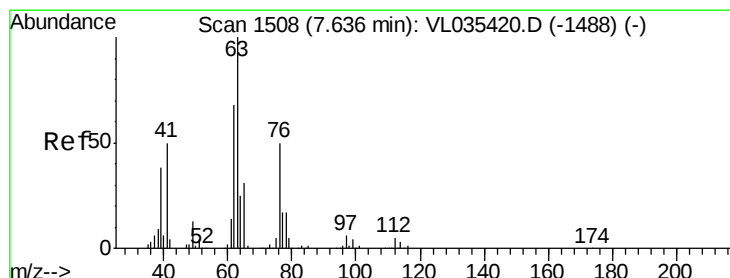
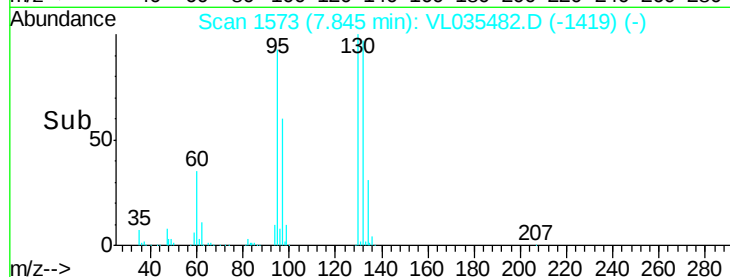
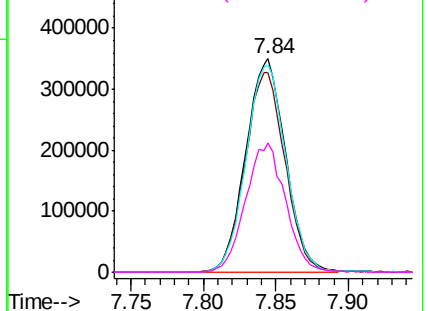


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.190 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.44 min

Lab File: VL035482.D

Acq: 20 Aug 2020 19:46

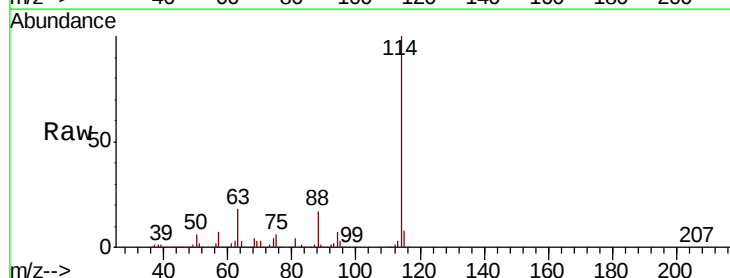
Tgt Ion: 63 Resp: 874053

Ion Ratio Lower Upper

63 100

41 0.0 61.1 91.7#

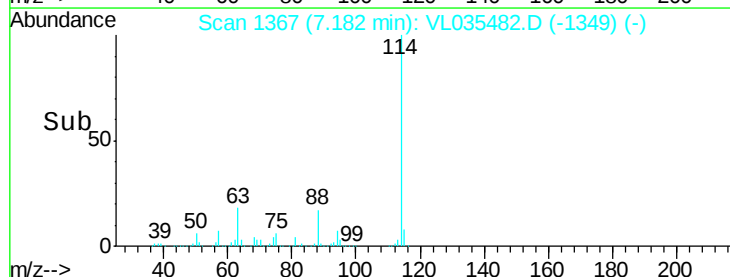
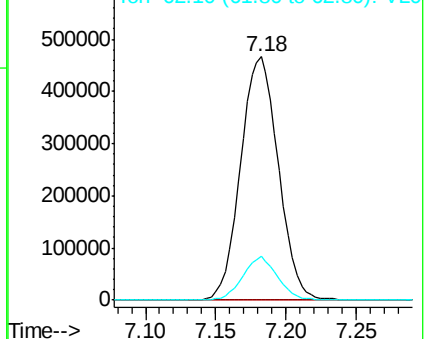
62 18.2 55.3 82.9#

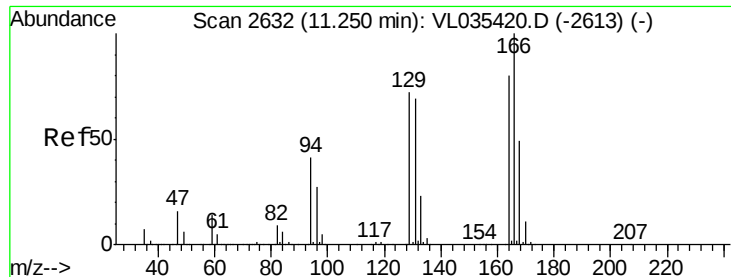


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 1.775 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL035482.D

Acq: 20 Aug 2020 19:46

Instrument :

MSVOA_L

ClientSampleId :

SSMP-4DL

Tot Ion:164 Resp: 399283

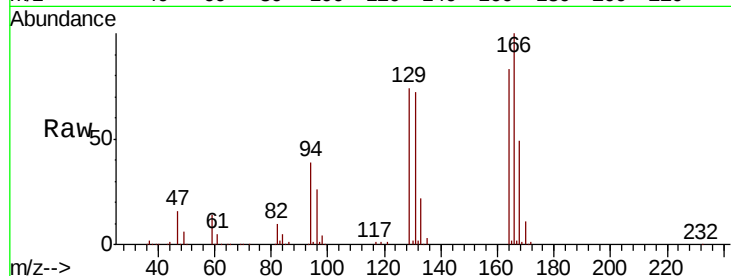
Ion Ratio Lower Upper

164 100

166 119.9 103.4 155.0

129 88.6 90.2 135.4#

131 86.8 91.7 137.5#

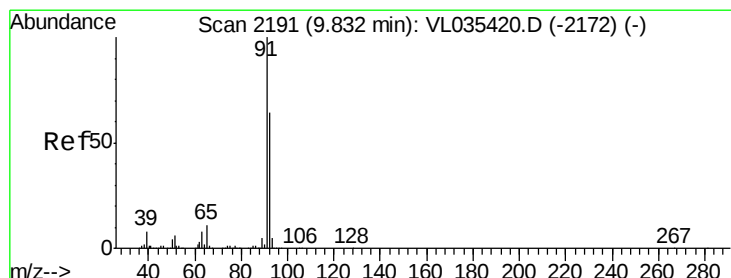
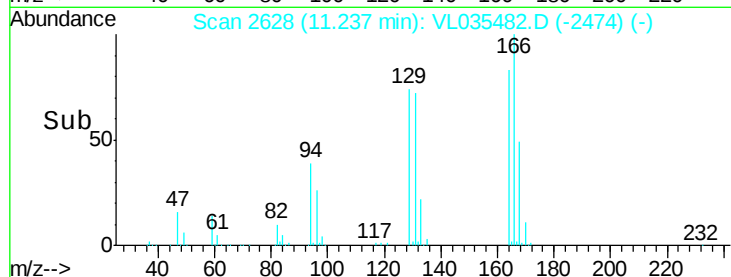
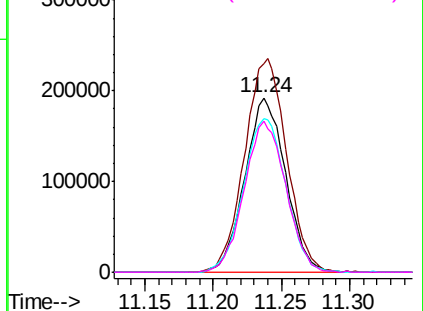


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.181 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035482.D

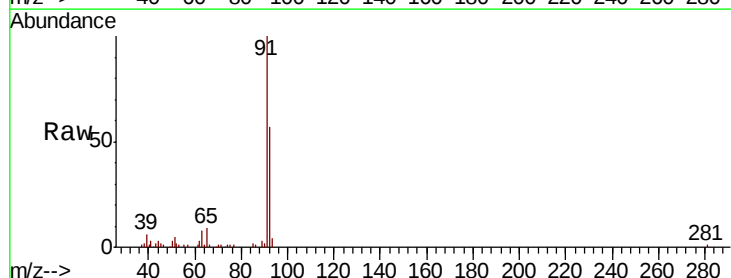
Acq: 20 Aug 2020 19:46

Tgt Ion: 91 Resp: 85910

Ion Ratio Lower Upper

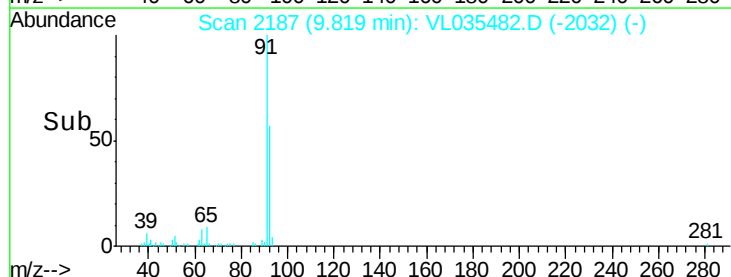
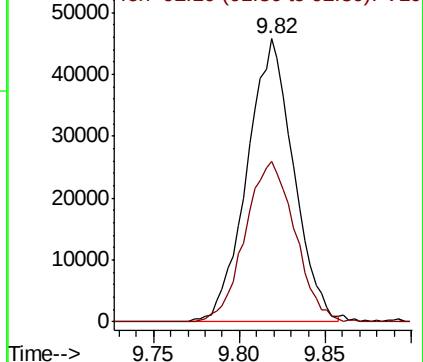
91 100

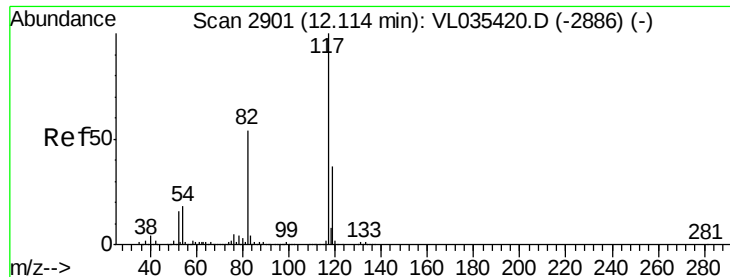
92 60.6 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

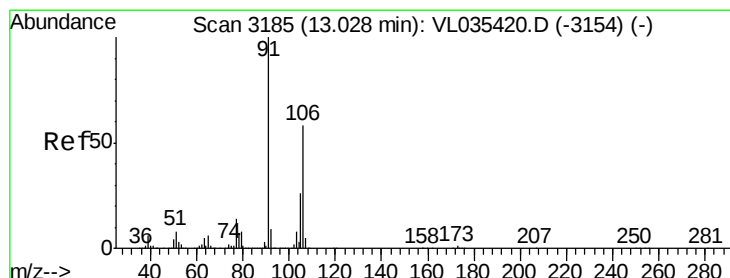
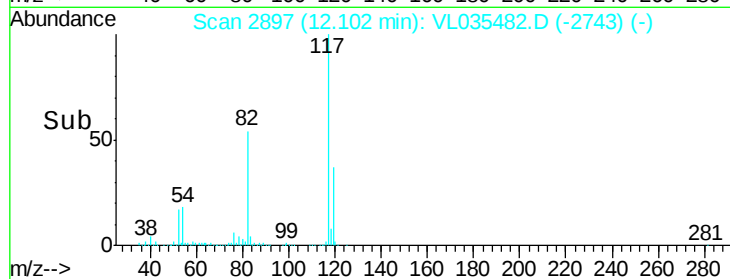
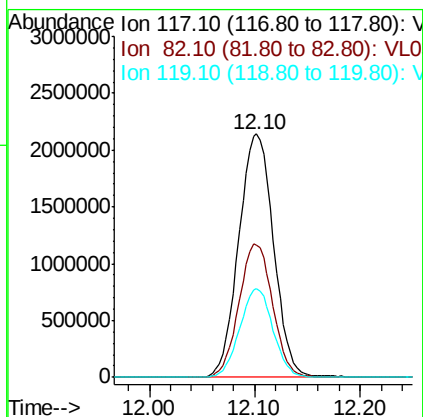
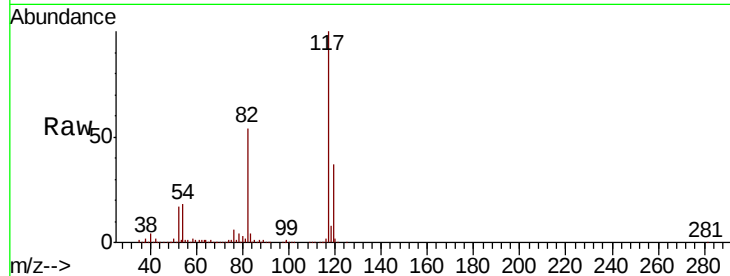




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

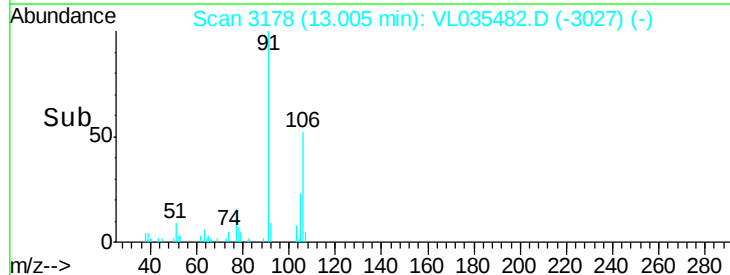
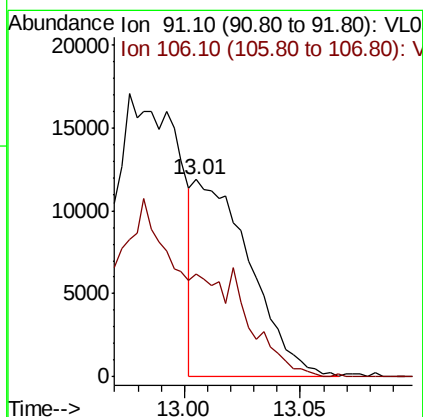
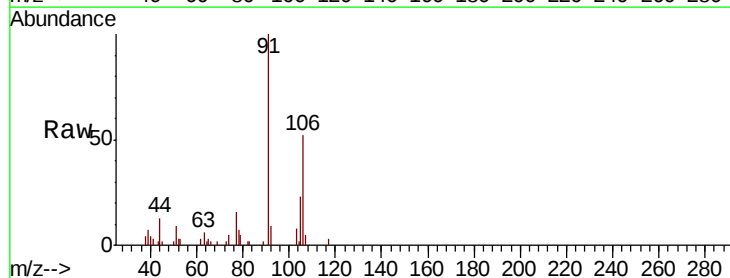
Instrument :
MSVOA_L
ClientSampleId :
SSMP-4DL

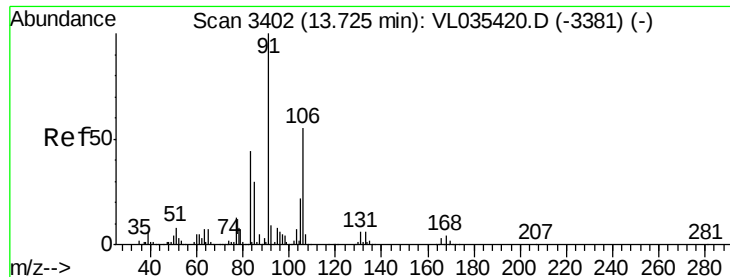
Tot Ion:117 Resp: 4920810
Ion Ratio Lower Upper
117 100
82 53.4 57.4 86.0#
119 35.1 28.4 42.6



#59
m/p-Xylene
Concen: 0.040 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. -0.02 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

Tgt Ion: 91 Resp: 20011
Ion Ratio Lower Upper
91 100
106 0.0 34.0 51.0#

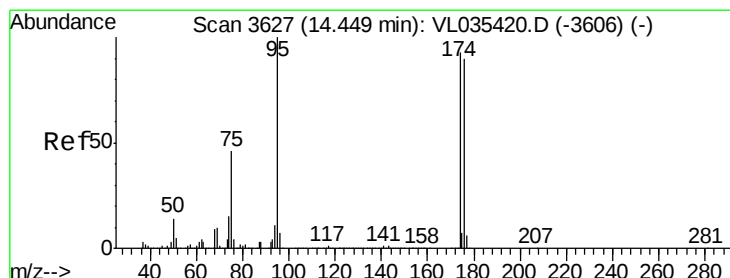
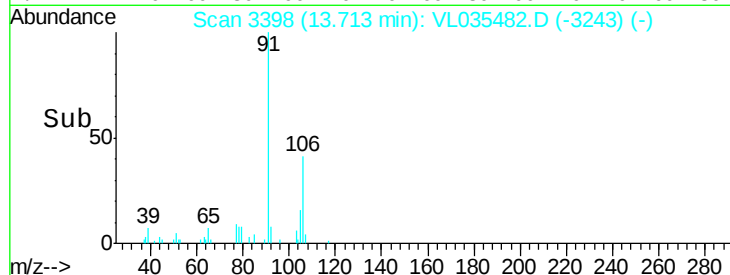
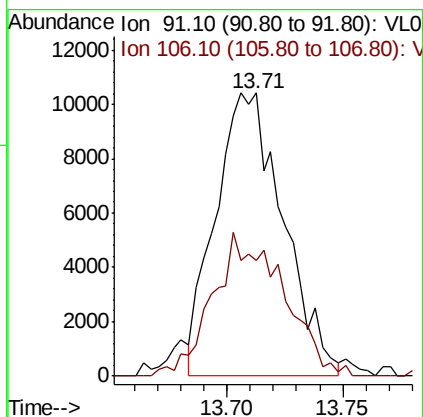
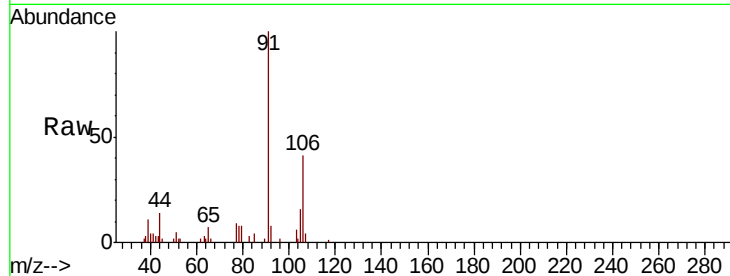




#60
o-Xylene
Concen: 0.043 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

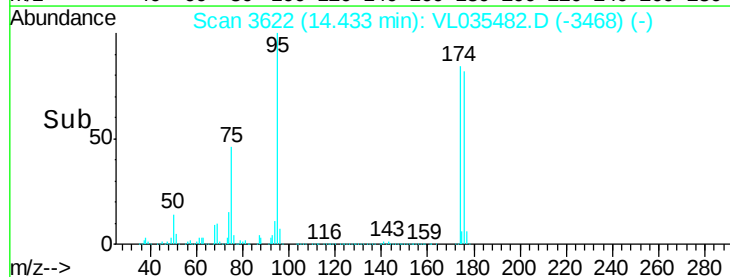
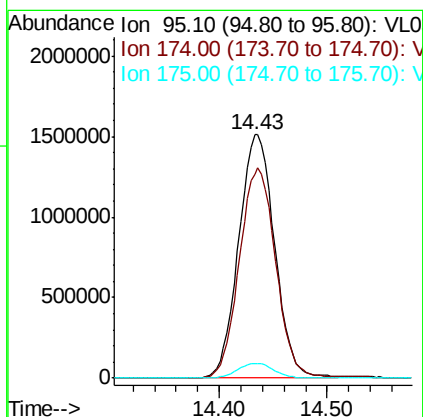
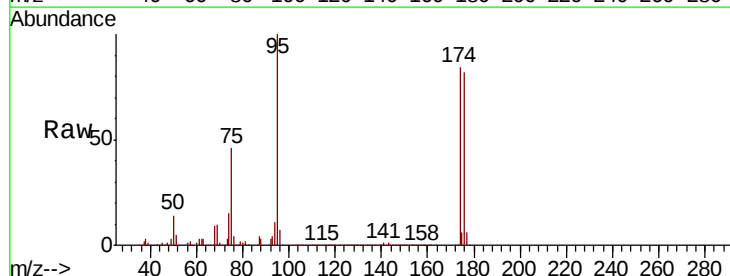
Instrument :
MSVOA_L
ClientSampleId :
SSMP-4DL

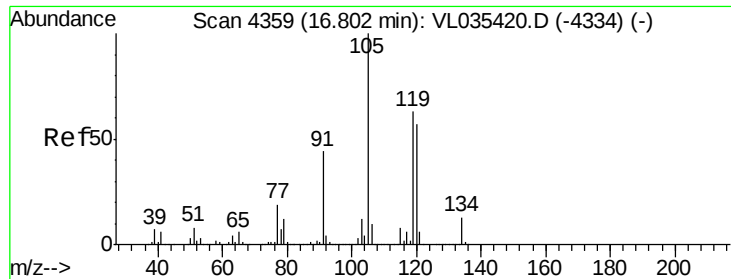
Tot Ion: 91 Resp: 21209
Ion Ratio Lower Upper
91 100
106 52.6 21.8 65.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.202 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL035482.D
Acq: 20 Aug 2020 19:46

Tgt Ion: 95 Resp: 3514484
Ion Ratio Lower Upper
95 100
174 88.0 44.0 66.0#
175 6.3 3.2 4.8#

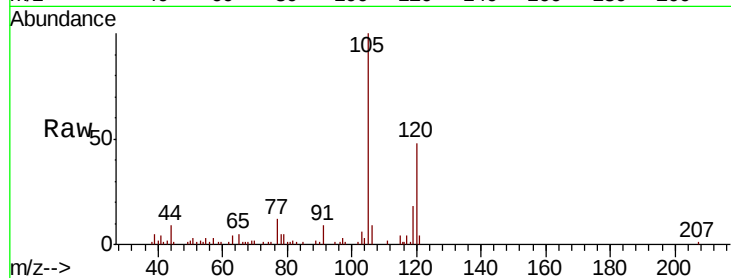




#74
 1,2,4-Trimethylbenzene
 Concen: 0.095 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.00 min
 Lab File: VL035482.D
 Acq: 20 Aug 2020 19:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-4DL

Tot Ion:	105	Resp:	61335
Ion	Ratio	Lower	Upper
105	100		
120	48.2	37.8	56.8
91	9.5	40.0	60.0#
77	12.2	18.8	28.2#



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

