

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035259.D
 Acq On : 29 Jul 2020 23:33
 Operator : SY/AP
 Sample : L3463-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:53:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1100204	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2646504	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2509536	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2032175	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

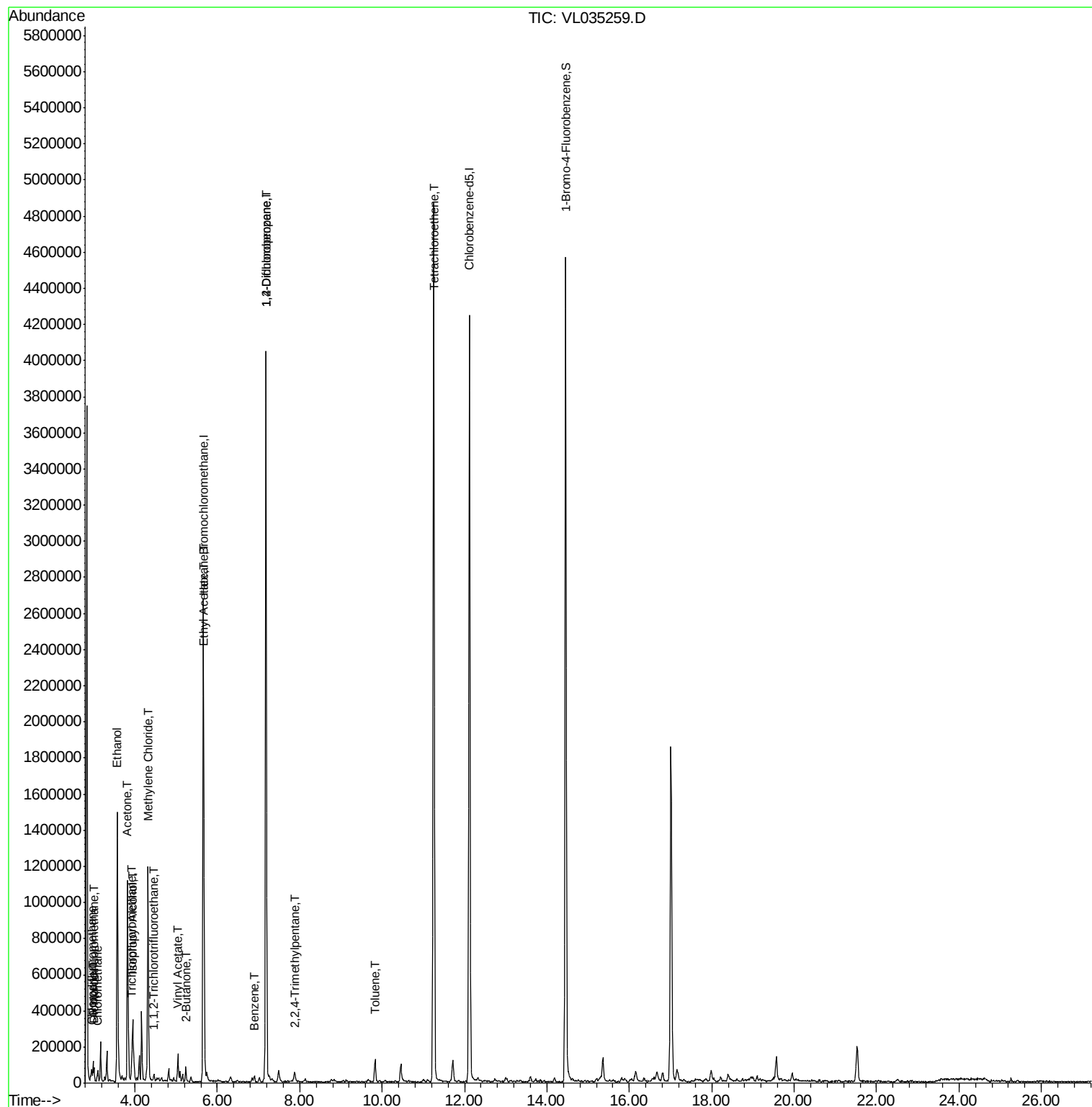
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	41448	0.315	ppbv 99
3) Chlorodifluoromethane	2.95	51	68012	0.558	ppbv # 89
4) Chloromethane	3.10	50	43419	0.634	ppbv 92
9) Propene	2.98	41	23420	0.552	ppbv 91
11) Trichlorofluoromethane	3.92	101	48835	0.276	ppbv # 82
12) 1,1,2-Trichlorotrifluoroet	4.46	101	9540	0.076	ppbv 90
13) Ethanol	3.57	45	1496873	86.634	ppbv 95
15) Acetone	3.82	43	1073448	7.315	ppbv 100
19) Isopropyl Alcohol	3.94	45	327419	3.383	ppbv # 95
20) Methylene Chloride	4.32	84	388339	5.813	ppbv 97
23) Vinyl Acetate	5.04	43	80240	0.544	ppbv # 84
25) Ethyl Acetate	5.68	43	113311	0.494	ppbv # 82
26) Hexane	5.67	57	149939	1.450	ppbv # 43
34) 2-Butanone	5.23	43	70006	0.520	ppbv 98
36) Benzene	6.90	78	14683	0.080	ppbv # 86
39) 1,2-Dichloropropane	7.18	63	706863	9.632	ppbv # 23
44) 2,2,4-Trimethylpentane	7.88	57	14029	0.043	ppbv # 42
52) Tetrachloroethene	11.25	164	1147480	16.351	ppbv 96
53) Toluene	9.83	91	50262	0.257	ppbv # 20

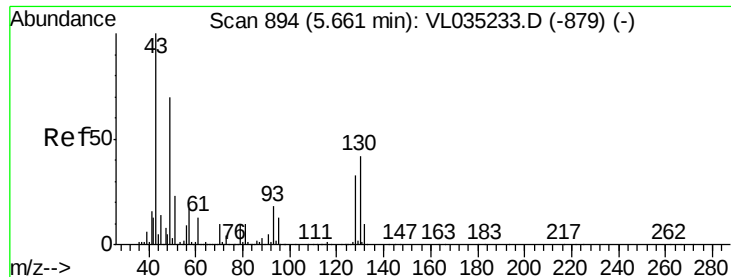
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072920\
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 07:14:29 2020
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

ClientSampleId :

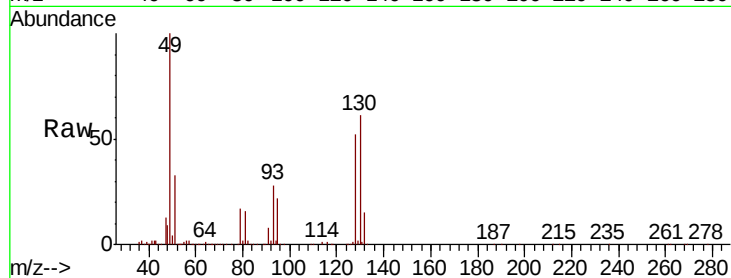
Tot Ion: 49 Resp: 1100204

Ion Ratio Lower Upper

49 100

128 49.8 24.0 72.0

130 63.3 30.7 92.1



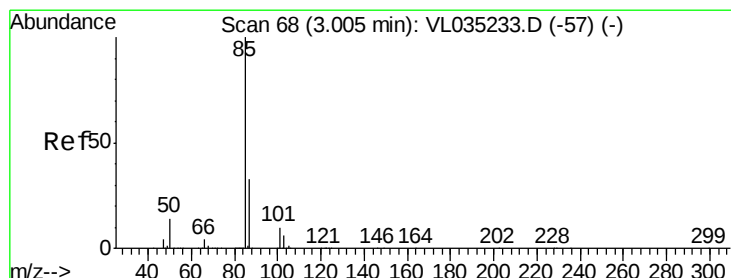
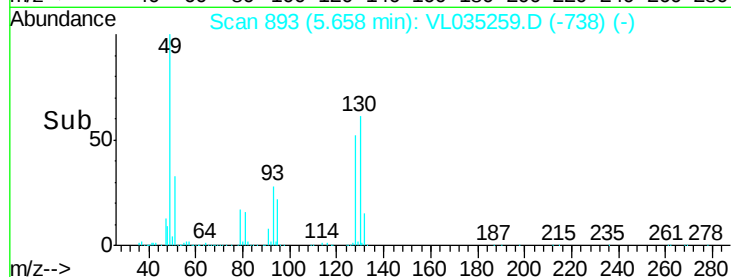
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 0.315 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035259.D

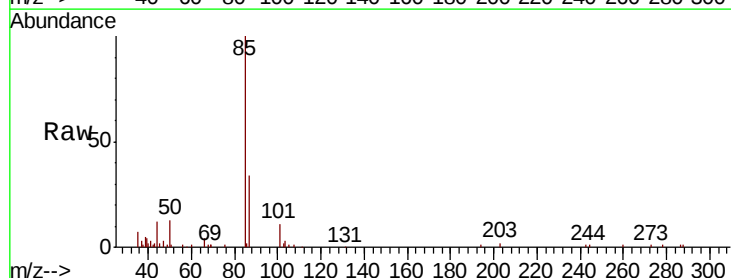
Acq: 29 Jul 2020 23:33

Tgt Ion: 85 Resp: 41448

Ion Ratio Lower Upper

85 100

87 33.9 26.7 40.1

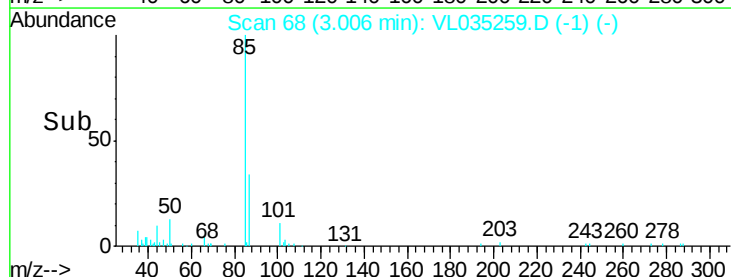


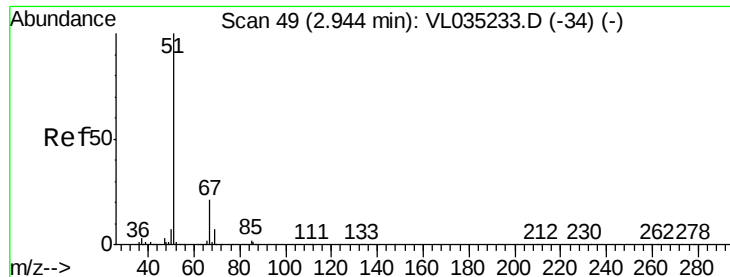
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->

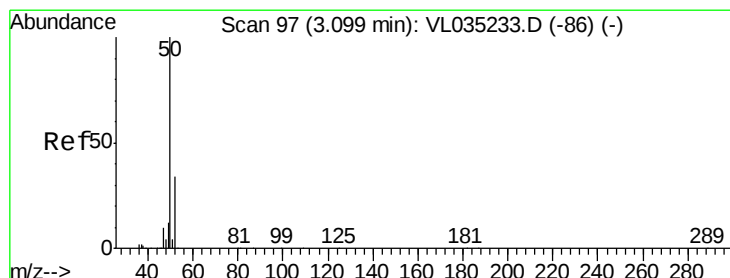
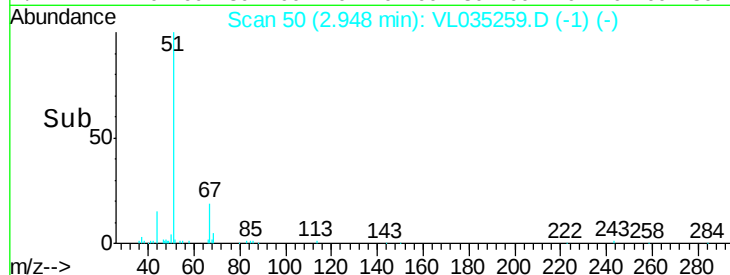
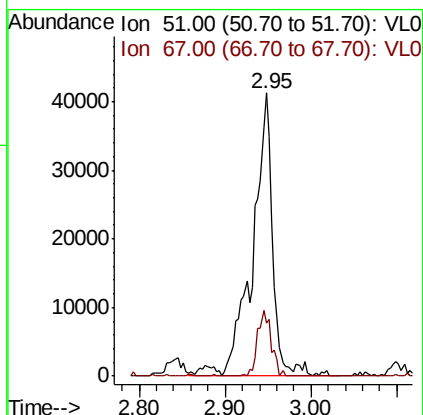
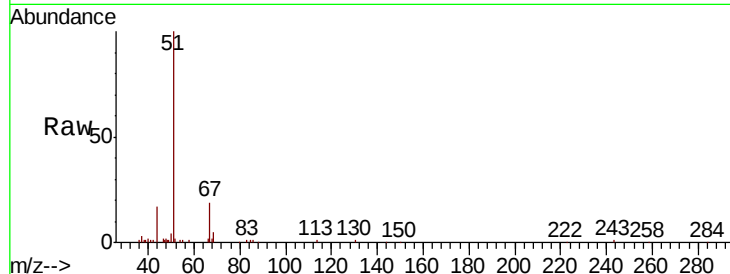




#3
 Chlorodifluoromethane
 Concen: 0.558 ppbv
 RT: 2.95 min Scan# 50
 Delta R.T. 0.00 min
 Lab File: VL035259.D
 Acq: 29 Jul 2020 23:33

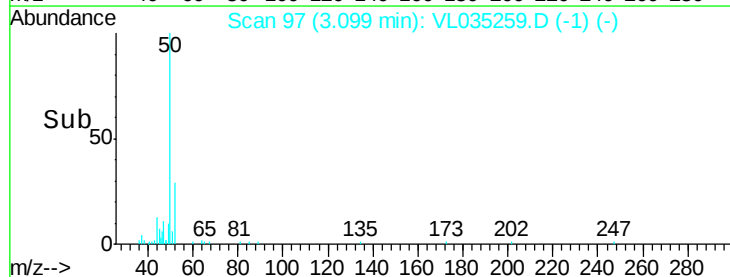
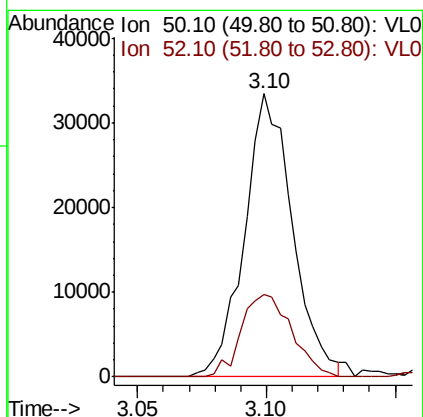
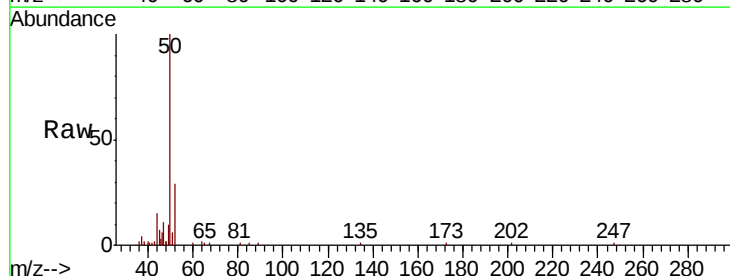
Instrument :
 MSVOA_L
 ClientSampleId :

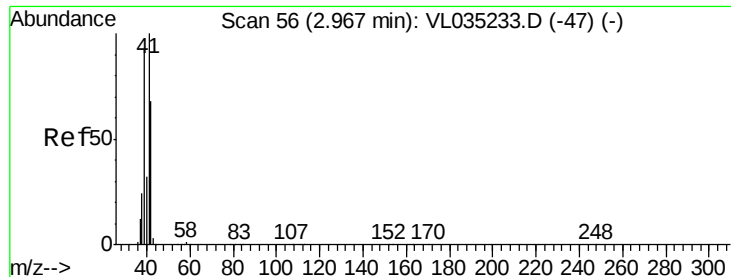
Tot Ion: 51 Resp: 68012
 Ion Ratio Lower Upper
 51 100
 67 15.6 16.6 25.0#



#4
 Chloromethane
 Concen: 0.634 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL035259.D
 Acq: 29 Jul 2020 23:33

Tgt Ion: 50 Resp: 43419
 Ion Ratio Lower Upper
 50 100
 52 29.2 27.1 40.7





#9

Propene

Concen: 0.552 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

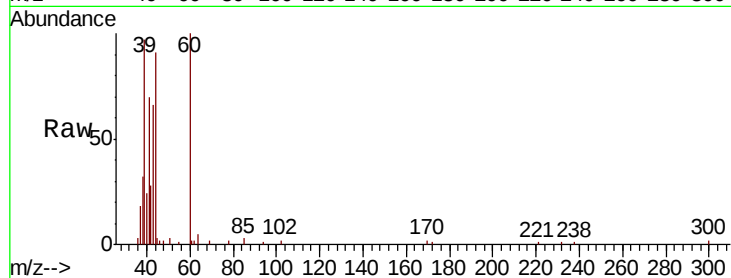
ClientSampleId :

Tot Ion: 41 Resp: 23420

Ion Ratio Lower Upper

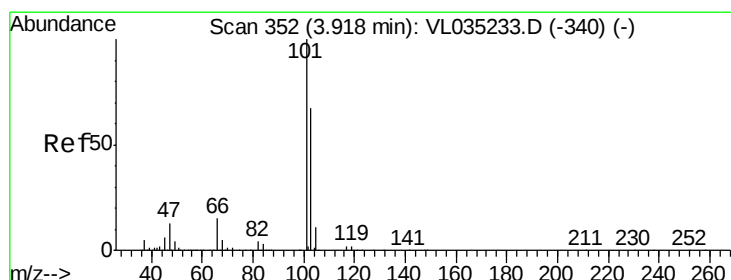
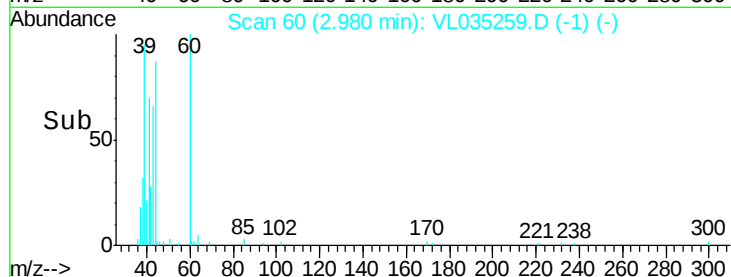
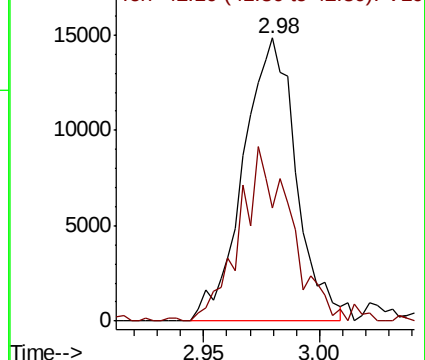
41 100

42 61.2 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.276 ppbv

RT: 3.92 min Scan# 353

Delta R.T. 0.00 min

Lab File: VL035259.D

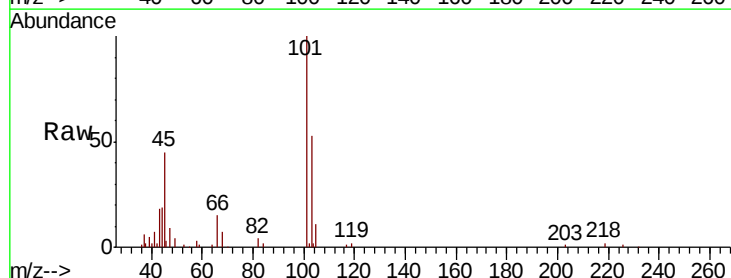
Acq: 29 Jul 2020 23:33

Tgt Ion: 101 Resp: 48835

Ion Ratio Lower Upper

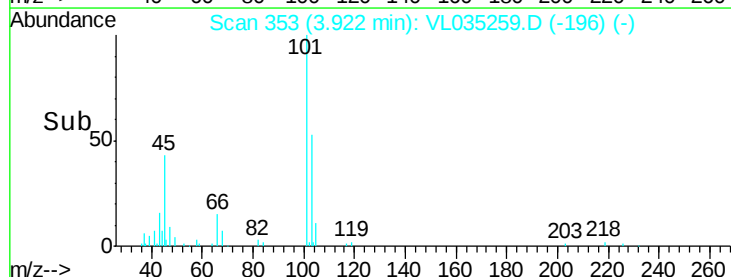
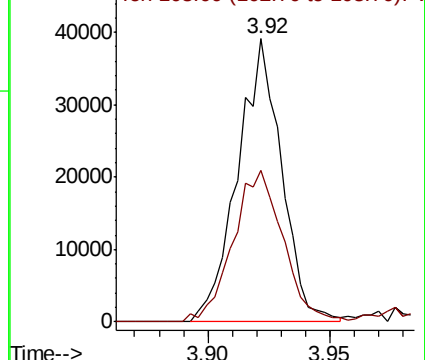
101 100

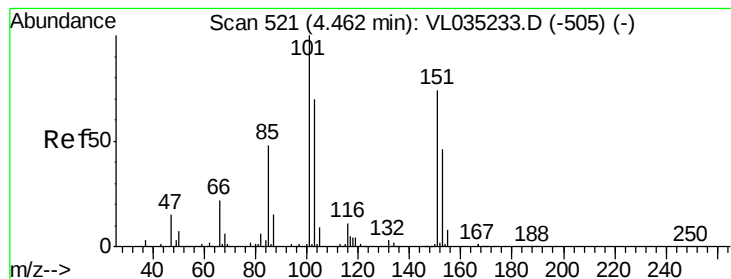
103 52.1 53.4 80.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.076 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

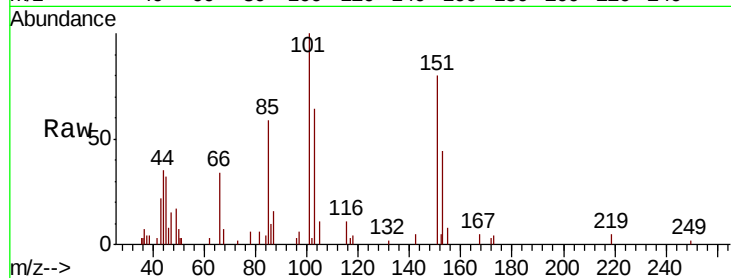
ClientSampleId :

Tot Ion:101 Resp: 9540

Ion Ratio Lower Upper

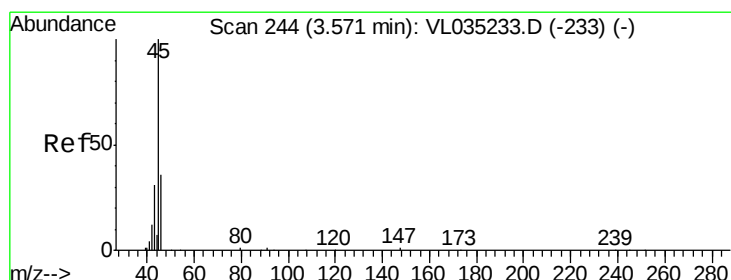
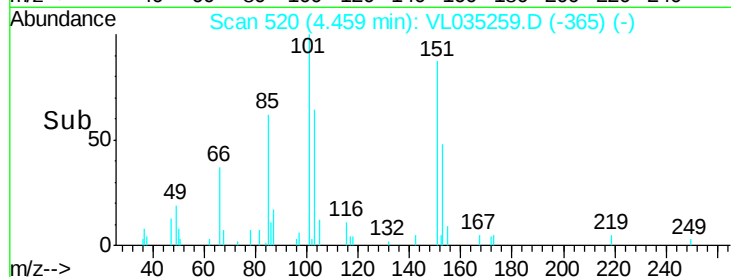
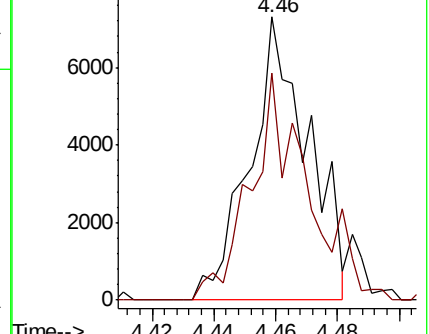
101 100

151 79.3 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 86.634 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL035259.D

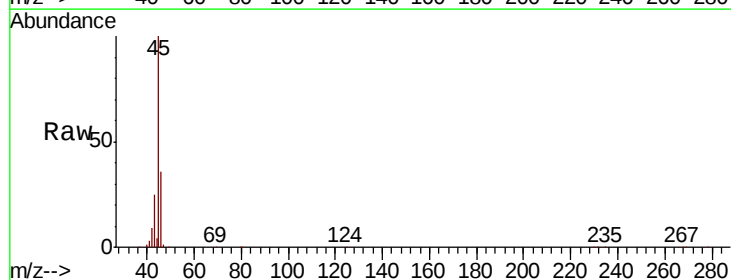
Acq: 29 Jul 2020 23:33

Tgt Ion: 45 Resp: 1496873

Ion Ratio Lower Upper

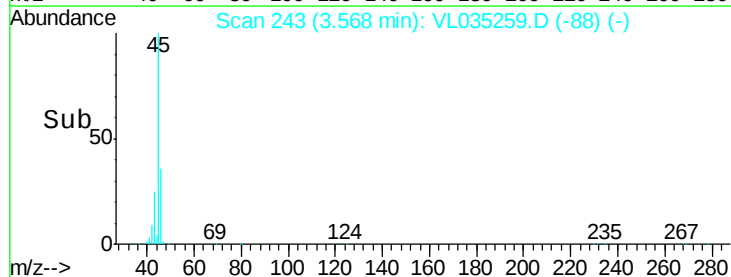
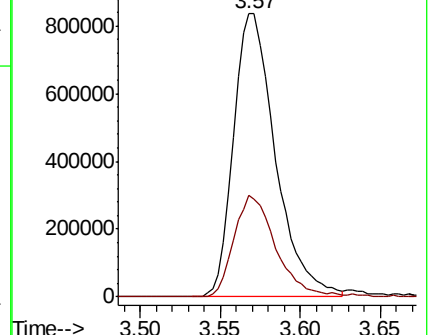
45 100

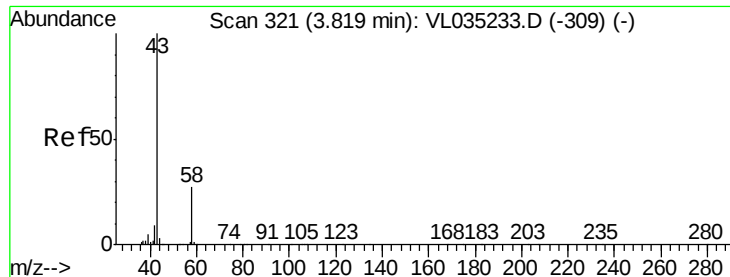
46 36.5 15.8 63.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.315 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

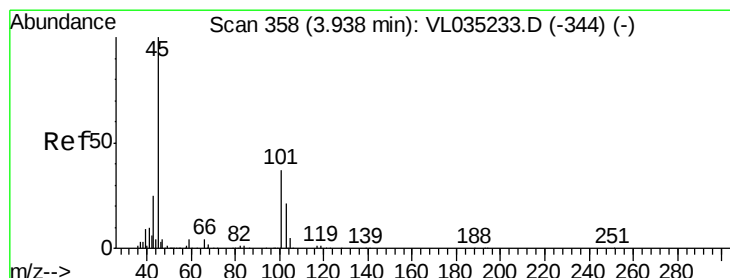
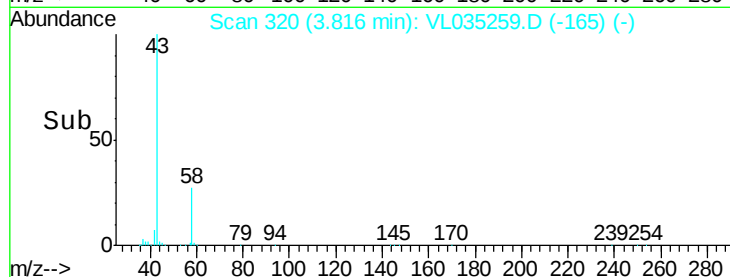
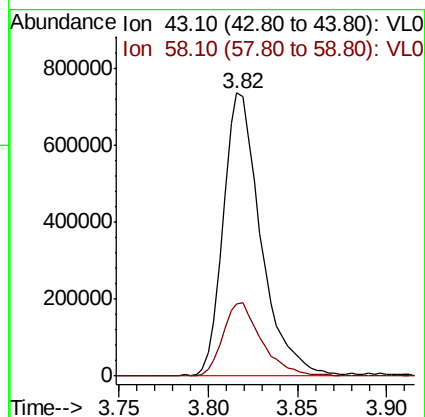
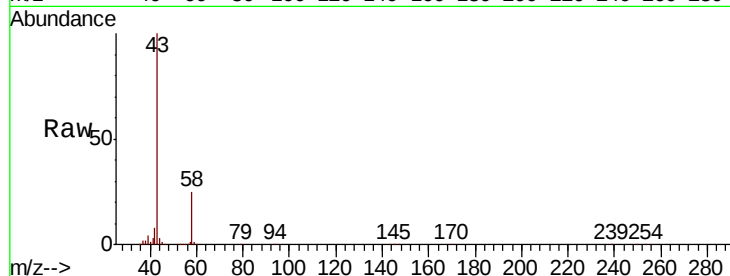
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1073448

Ion Ratio Lower Upper

43 100

58 27.1 21.8 32.6



#19

Isopropyl Alcohol

Concen: 3.383 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.01 min

Lab File: VL035259.D

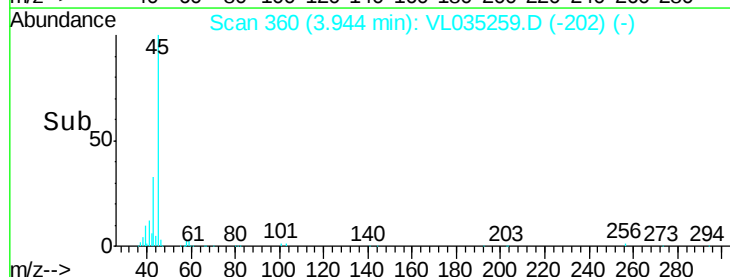
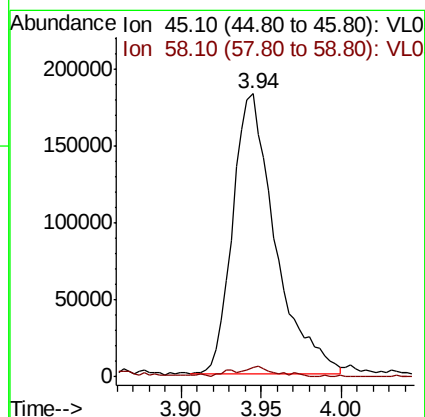
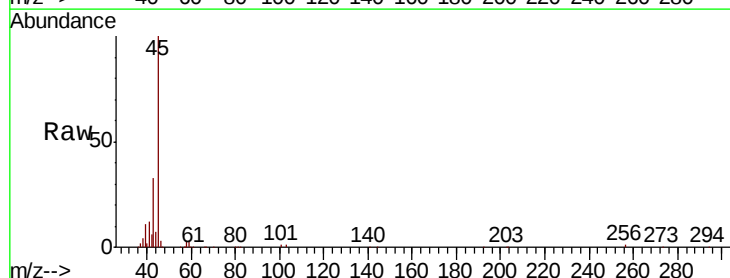
Acq: 29 Jul 2020 23:33

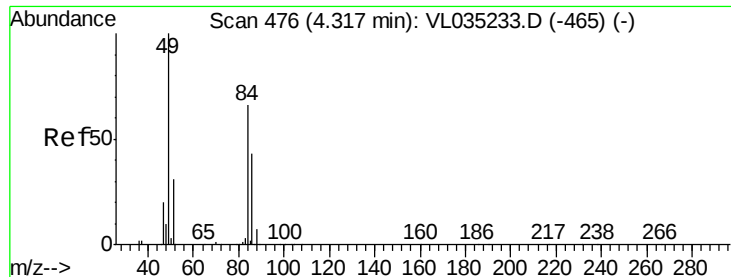
Tgt Ion: 45 Resp: 327419

Ion Ratio Lower Upper

45 100

58 4.0 1.9 2.9#

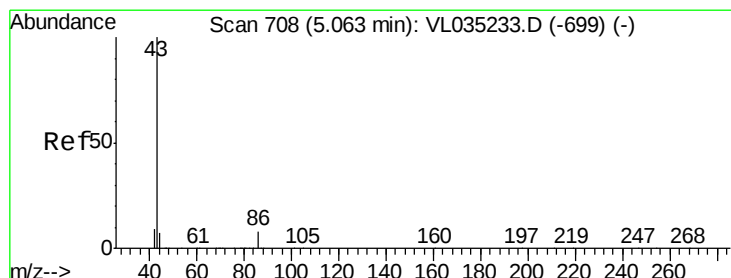
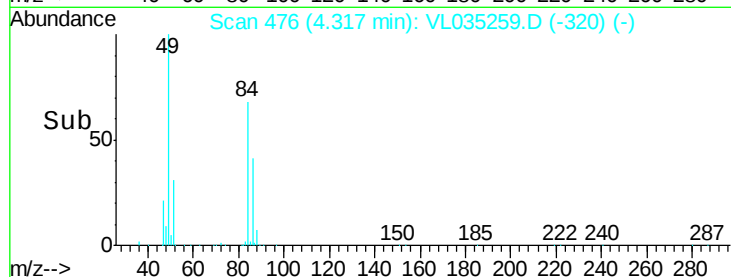
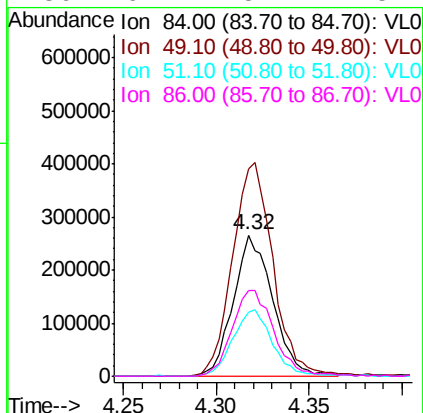
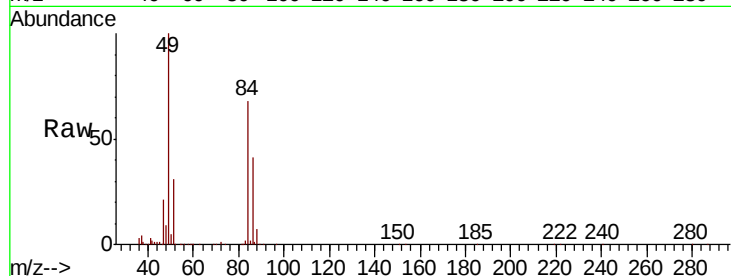




#20
Methvlene Chloride
Concen: 5.813 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

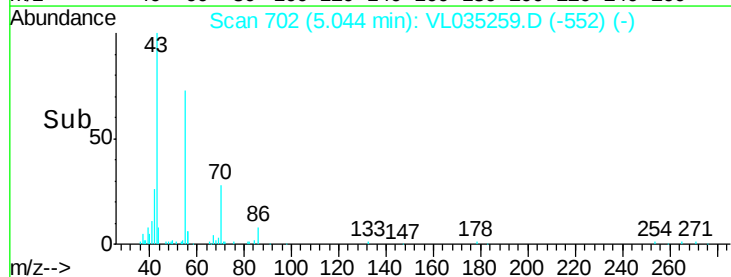
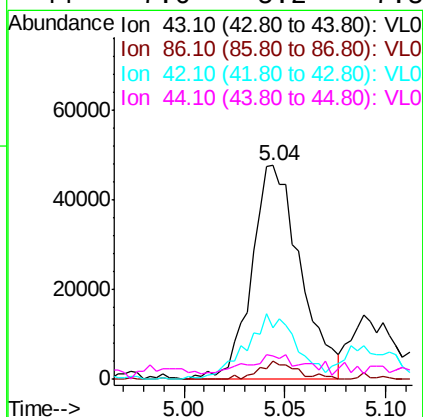
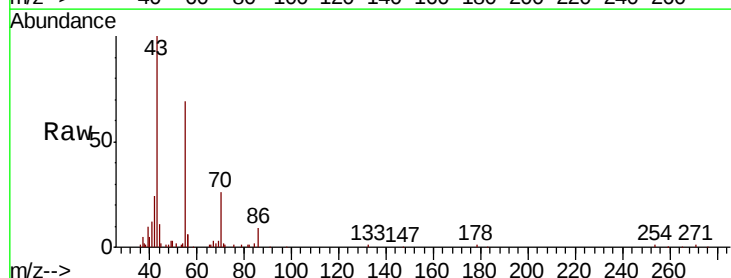
Instrument :
MSVOA_L
ClientSampleId :

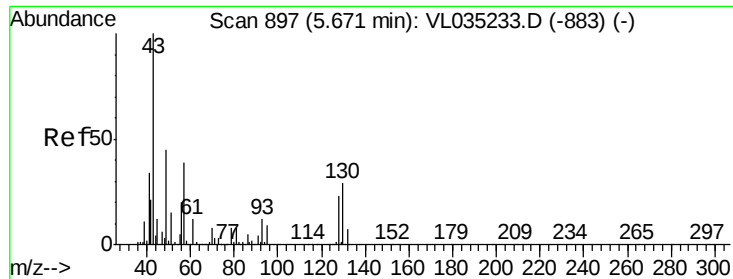
Tot Ion: 84 Resp: 388339
Ion Ratio Lower Upper
84 100
49 147.7 121.0 181.4
51 45.5 37.7 56.5
86 61.1 52.2 78.4



#23
Vinyl Acetate
Concen: 0.544 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.02 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Tgt Ion: 43 Resp: 80240
Ion Ratio Lower Upper
43 100
86 8.7 6.2 9.2
42 22.7 8.0 12.0#
44 7.6 5.2 7.8

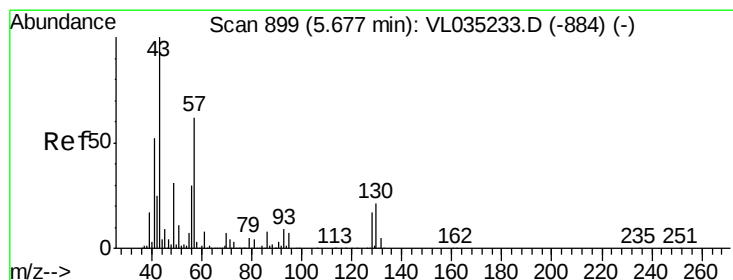
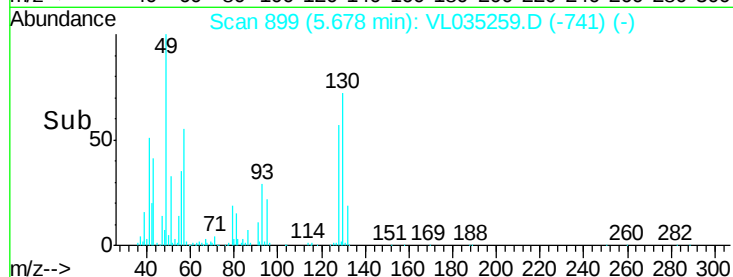
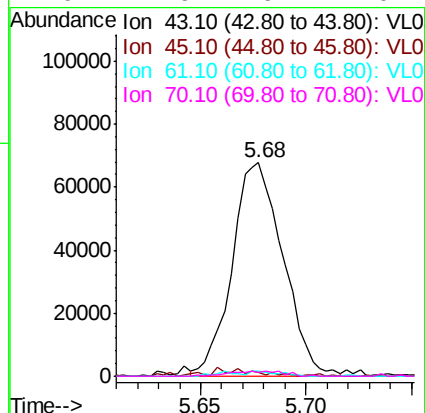
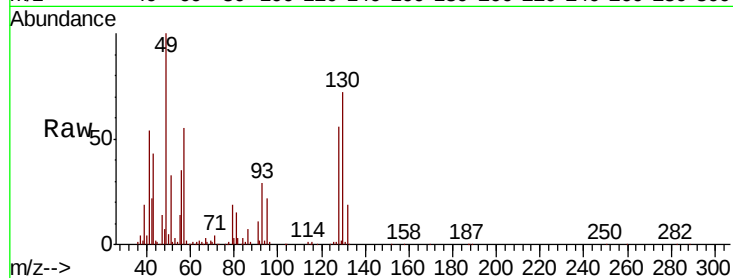




#25
Ethyl Acetate
Concen: 0.494 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

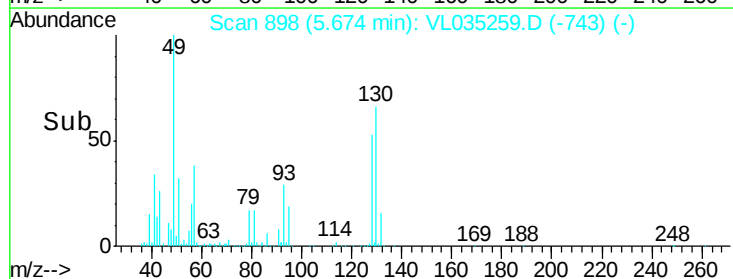
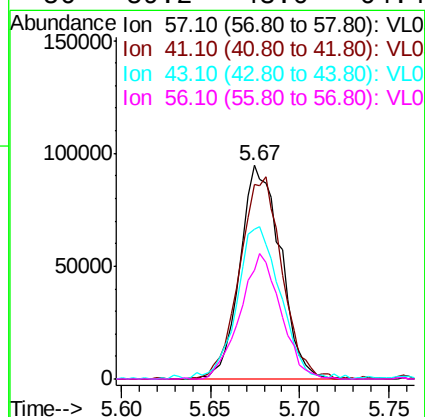
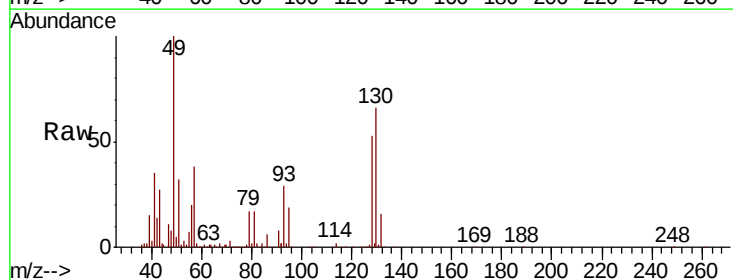
Instrument :
MSVOA_L
ClientSampled :

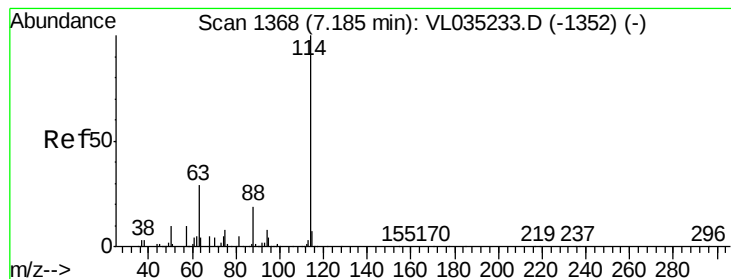
Tot Ion:	43	Resp:	113311
Ion	Ratio	Lower	Upper
43	100		
45	3.8	8.5	12.7#
61	2.2	8.1	12.1#
70	2.6	6.2	9.4#



#26
Hexane
Concen: 1.450 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL035259.D
Acq: 29 Jul 2020 23:33

Tgt Ion:	57	Resp:	149939
Ion	Ratio	Lower	Upper
57	100		
41	100.6	73.9	110.9
43	77.0	177.6	266.4#
56	59.2	43.0	64.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

ClientSampleId :

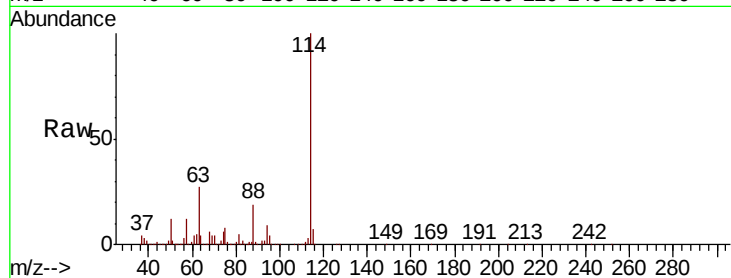
Tot Ion:114 Resp: 2646504

Ion Ratio Lower Upper

114 100

63 26.9 22.2 33.2

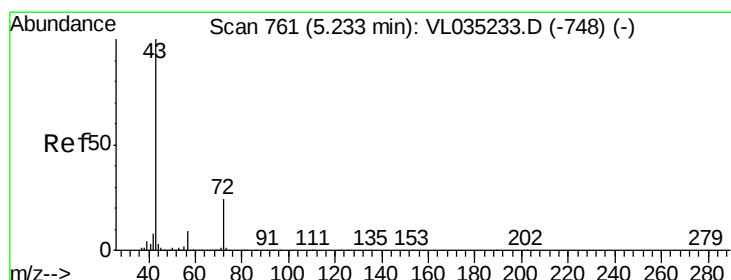
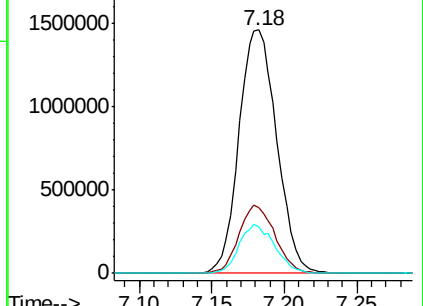
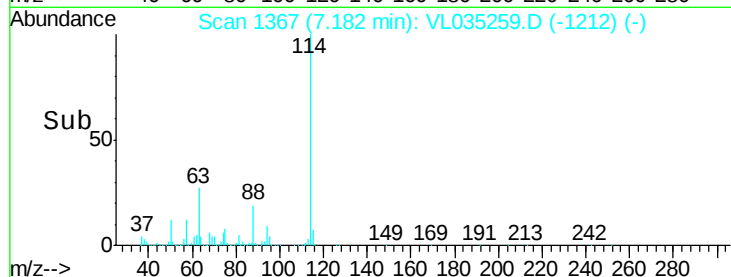
88 19.1 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.520 ppbv

RT: 5.23 min Scan# 761

Delta R.T. 0.00 min

Lab File: VL035259.D

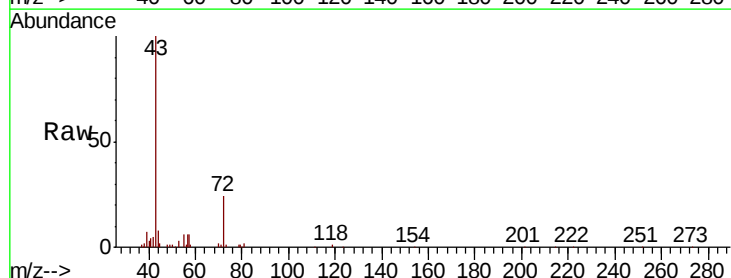
Acq: 29 Jul 2020 23:33

Tgt Ion: 43 Resp: 70006

Ion Ratio Lower Upper

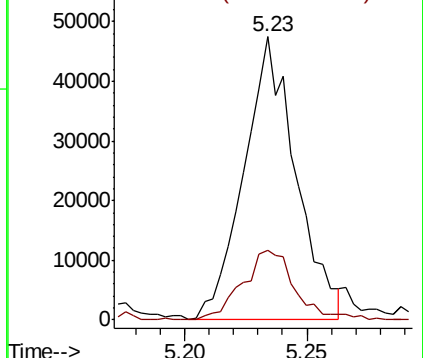
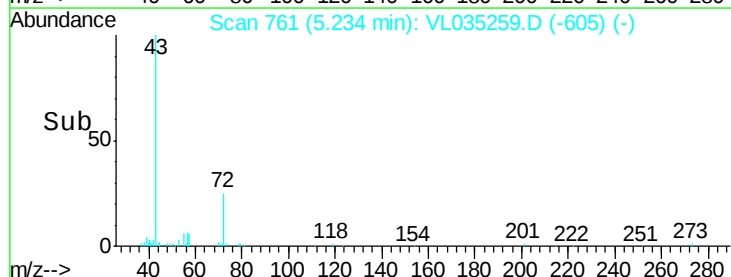
43 100

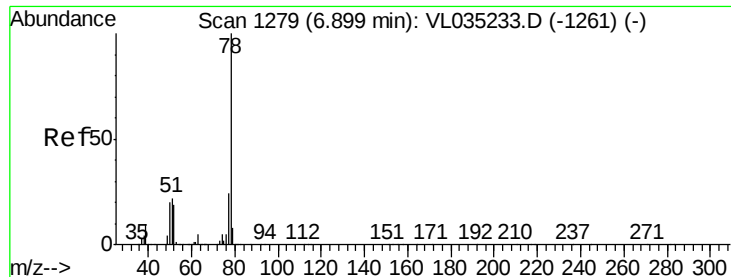
72 24.9 19.2 28.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.080 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

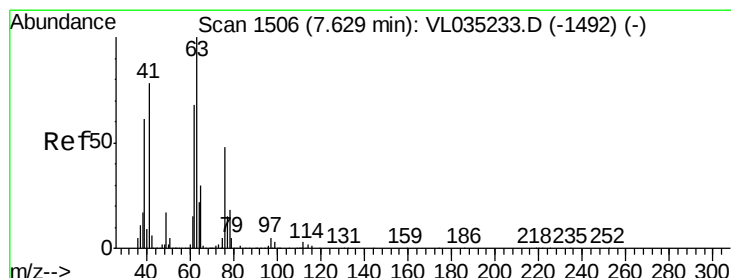
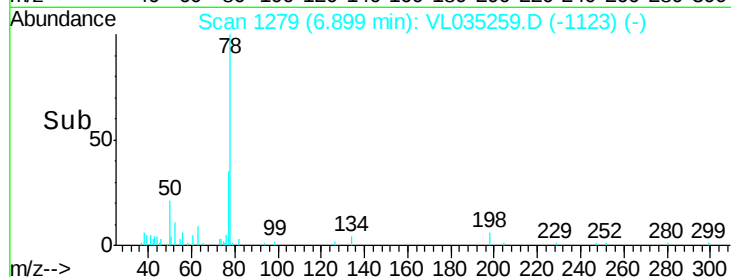
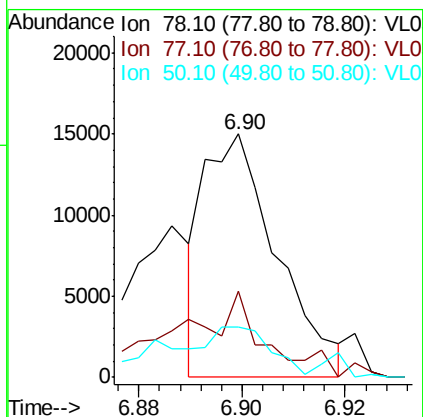
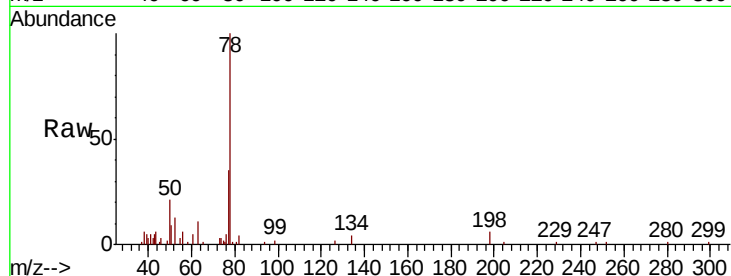
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 14683

Ion	Ratio	Lower	Upper
78	100		
77	34.1	18.9	28.3#
50	22.2	16.1	24.1



#39

1,2-Dichloropropane

Concen: 9.632 ppbv

RT: 7.18 min Scan# 1366

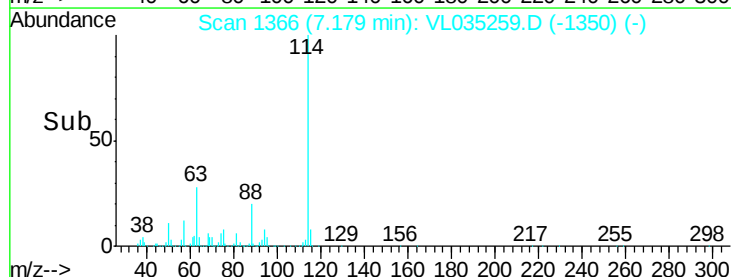
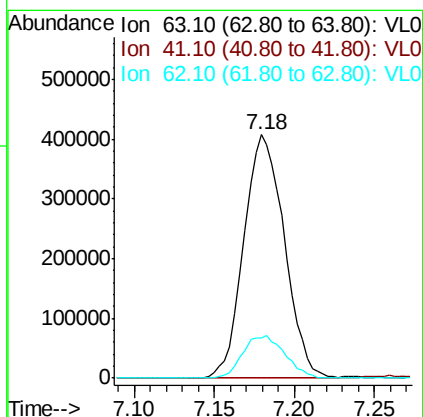
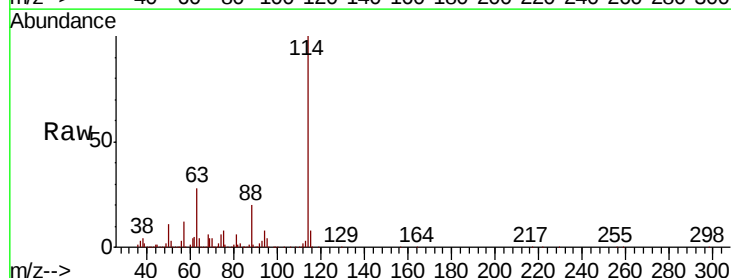
Delta R.T. -0.45 min

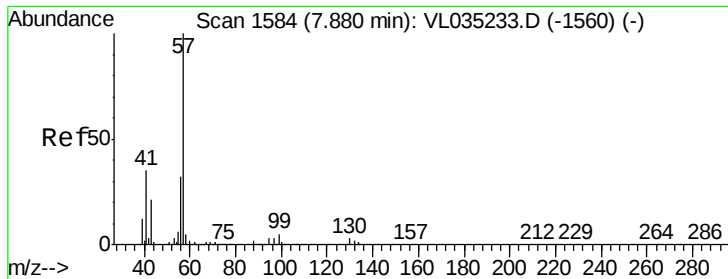
Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Tgt Ion: 63 Resp: 706863

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.2	93.4#
62	16.6	54.2	81.2#





#44

2,2,4-Trimethylpentane

Concen: 0.043 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

ClientSampleId :

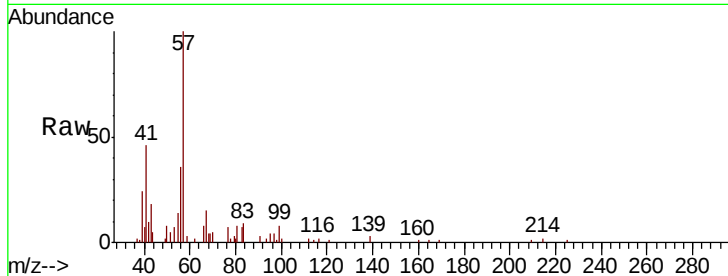
Tot Ion: 57 Resp: 14029

Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.4#

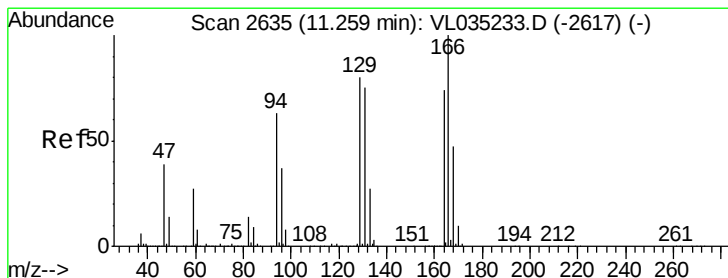
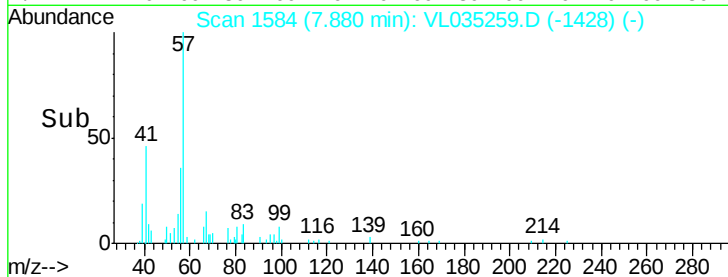
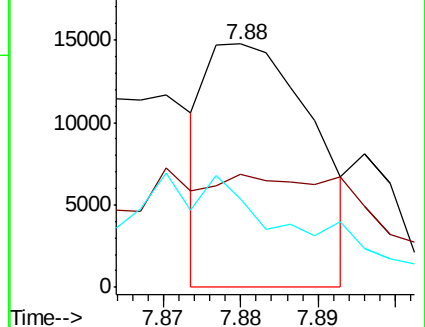
56 0.0 25.6 38.4#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 16.351 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. -0.01 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Tgt Ion:164 Resp: 1147480

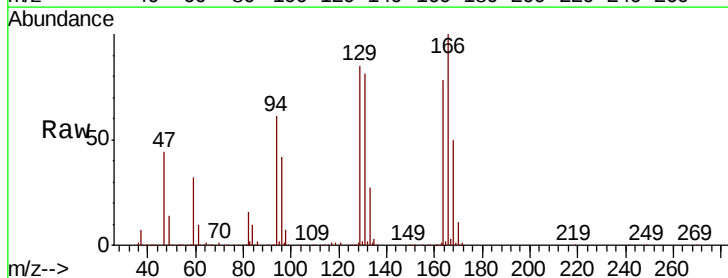
Ion Ratio Lower Upper

164 100

166 128.4 107.5 161.3

129 109.4 86.0 129.0

131 104.6 80.3 120.5

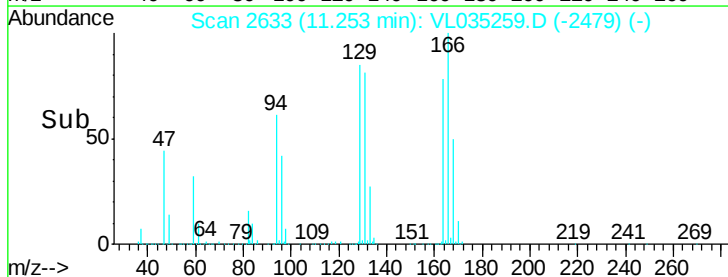
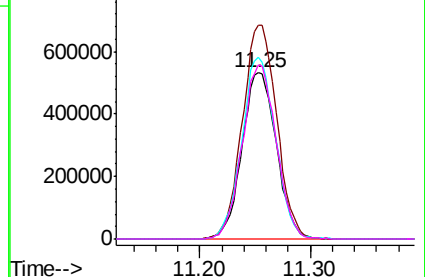


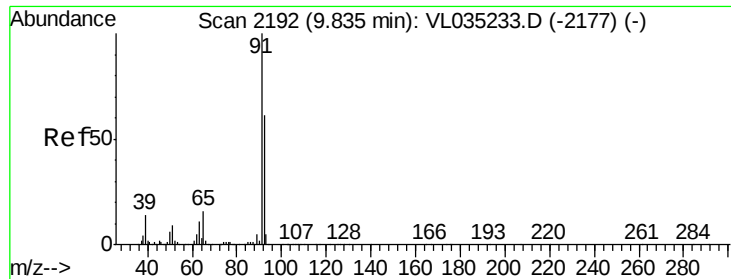
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.257 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.01 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

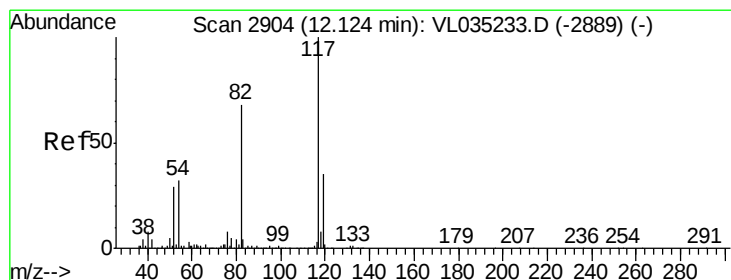
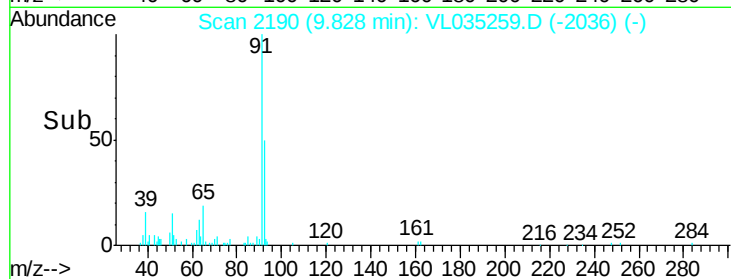
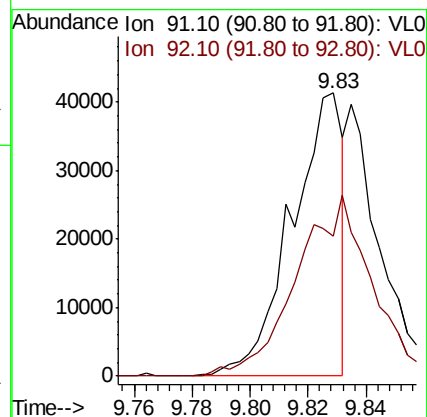
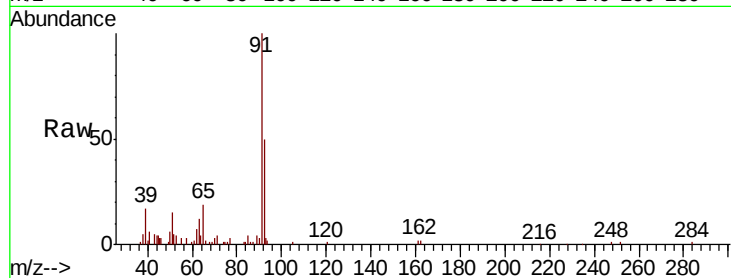
ClientSampleId :

Tot Ion: 91 Resp: 50262

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.01 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

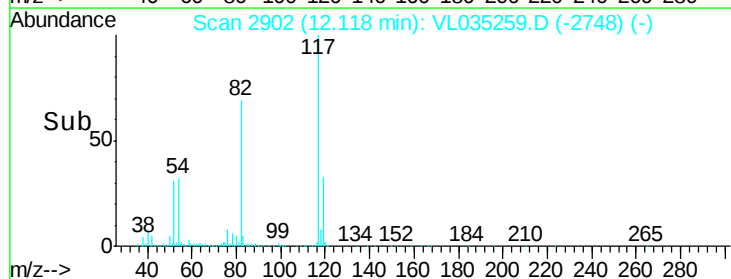
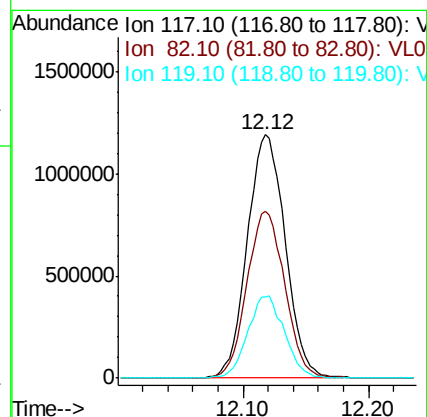
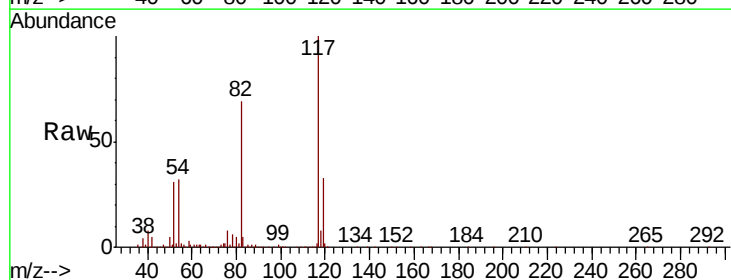
Tgt Ion: 117 Resp: 2509536

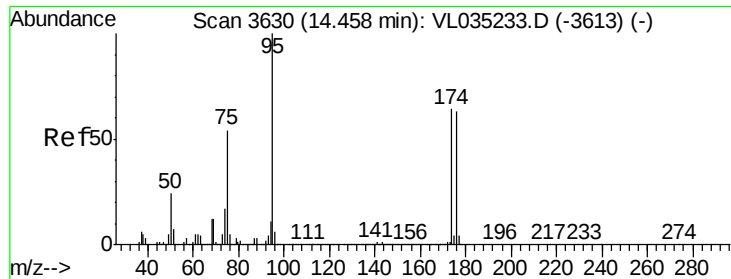
Ion Ratio Lower Upper

117 100

82 68.5 52.4 78.6

119 32.9 24.6 36.8





#68

1-Bromo-4-Fluorobenzene

Concen: 10.134 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. -0.00 min

Lab File: VL035259.D

Acq: 29 Jul 2020 23:33

Instrument :

MSVOA_L

ClientSampleId :

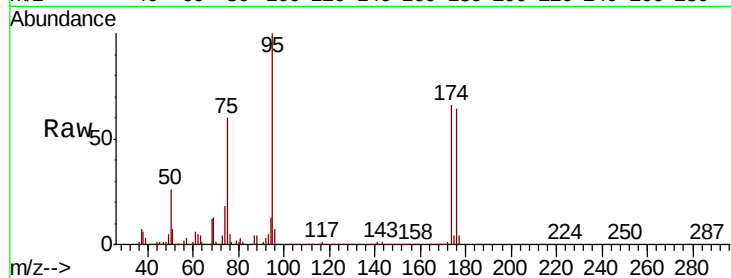
Tot Ion: 95 Resp: 2032175

Ion Ratio Lower Upper

95 100

174 65.6 52.7 79.1

175 4.6 3.9 5.9



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

