

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072320\
 Data File : VL035227.D
 Acq On : 23 Jul 2020 13:57
 Operator : SY/AP
 Sample : L3216-14 0.03 PPB LOQ
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 24 05:54:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1210072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2903672	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2719729	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2244277	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

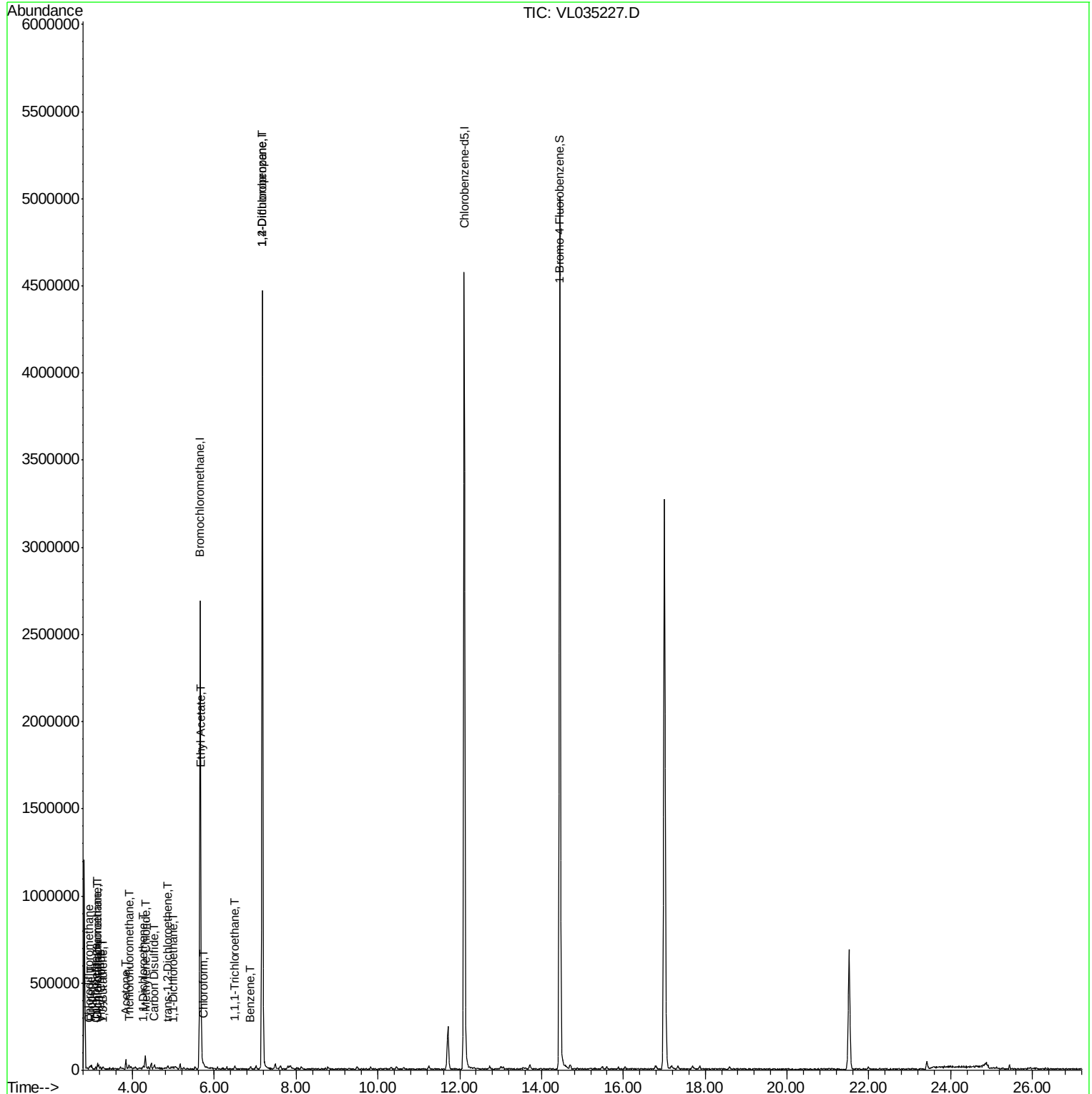
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.14	85	10798	0.064	ppbv 92
3) Chlorodifluoromethane	2.94	51	8305	0.062	ppbv 92
4) Chloromethane	3.09	50	2301	0.031	ppbv # 78
5) Vinyl Chloride	3.21	62	4766	0.059	ppbv # 87
8) Dichlorotetrafluoroethane	3.14	85	10798	0.058	ppbv 92
9) Propene	2.96	41	2457	0.049	ppbv # 16
11) Trichlorofluoromethane	3.92	101	12268	0.064	ppbv # 58
15) Acetone	3.83	43	45857	0.280	ppbv # 71
16) 1,3-Butadiene	3.28	39	3441	0.055	ppbv 88
18) 1,1-Dichloroethene	4.26	96	2055	0.035	ppbv # 59
20) Methylene Chloride	4.31	84	16010	0.225	ppbv # 73
22) trans-1,2-Dichloroethene	4.86	96	3115	0.052	ppbv # 63
24) 1,1-Dichloroethane	4.98	63	7898	0.052	ppbv # 88
25) Ethyl Acetate	5.67	43	7662	0.030	ppbv # 79
27) Carbon Disulfide	4.52	76	4767	0.030	ppbv # 1
29) Chloroform	5.74	83	5716	0.030	ppbv 95
32) 1,1,1-Trichloroethane	6.50	97	6327	0.034	ppbv # 67
36) Benzene	6.88	78	9155	0.044	ppbv # 72
39) 1,2-Dichloropropane	7.17	63	798150	9.550	ppbv # 22

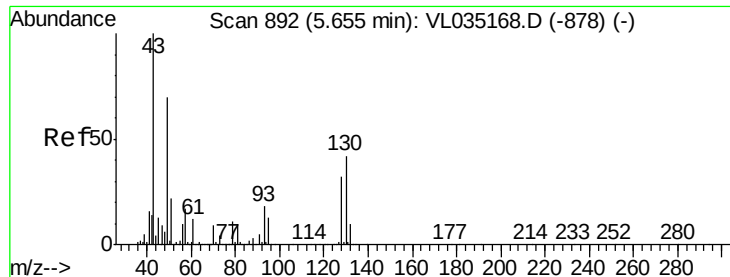
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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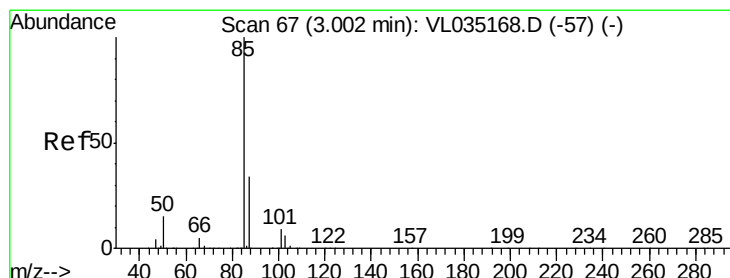
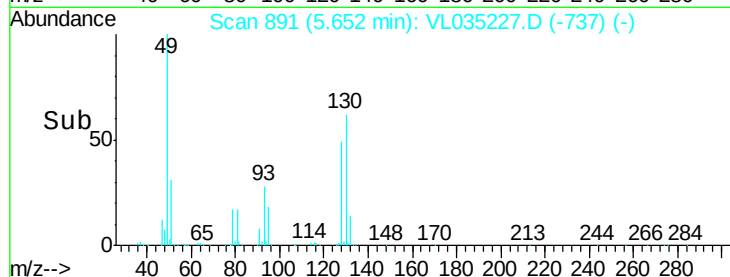
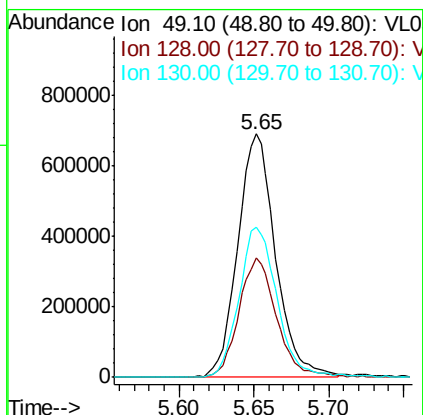
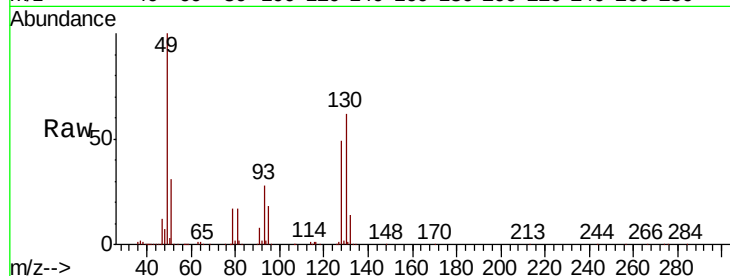




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.00 min
Lab File: VL035227.D
Acq: 23 Jul 2020 13:57

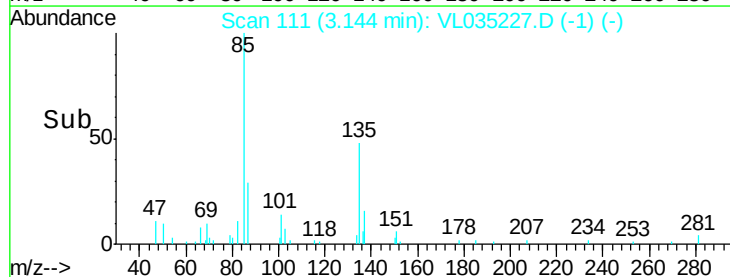
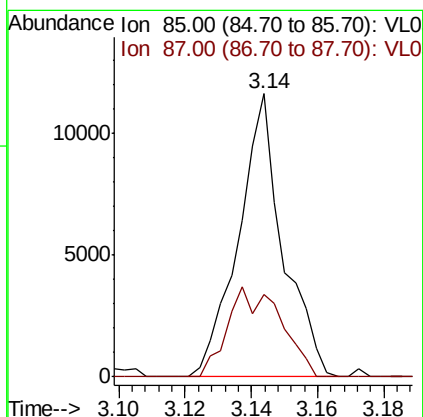
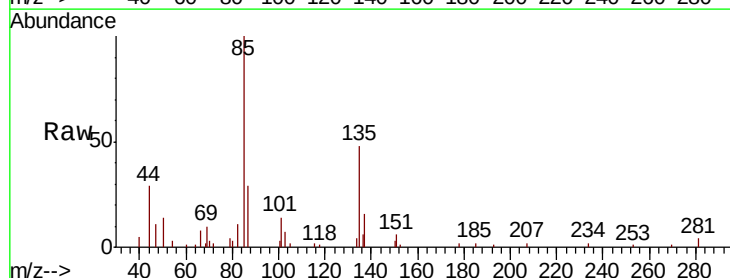
Instrument :
MSVOA_L
ClientSampleId :

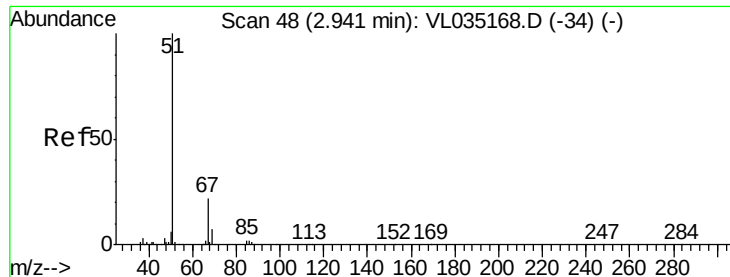
Tot Ion: 49 Resp: 1210072
Ion Ratio Lower Upper
49 100
128 49.2 23.8 71.4
130 63.0 29.9 89.8



#2
Dichlorodifluoromethane
Concen: 0.064 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.14 min
Lab File: VL035227.D
Acq: 23 Jul 2020 13:57

Tgt Ion: 85 Resp: 10798
Ion Ratio Lower Upper
85 100
87 29.0 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.062 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Instrument :

MSVOA_L

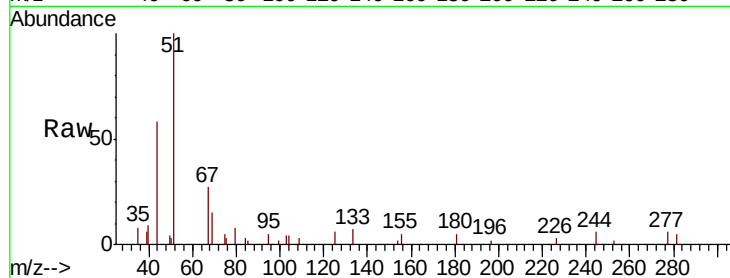
ClientSampleId :

Tot Ion: 51 Resp: 8305

Ion Ratio Lower Upper

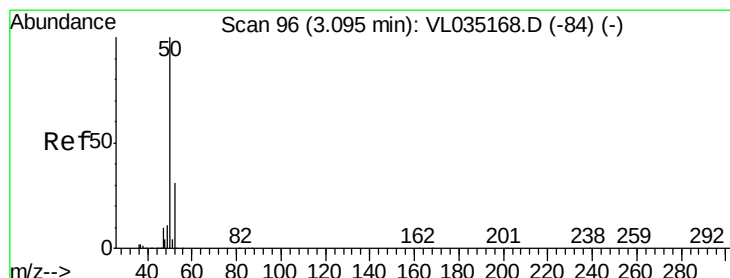
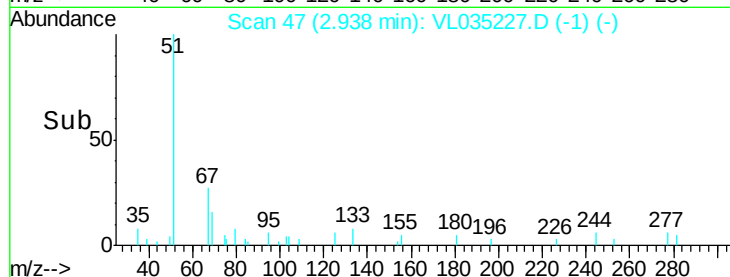
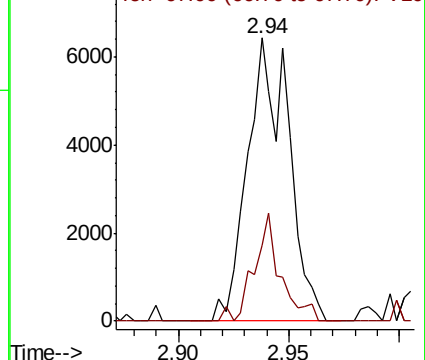
51 100

67 24.4 16.6 24.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.031 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.00 min

Lab File: VL035227.D

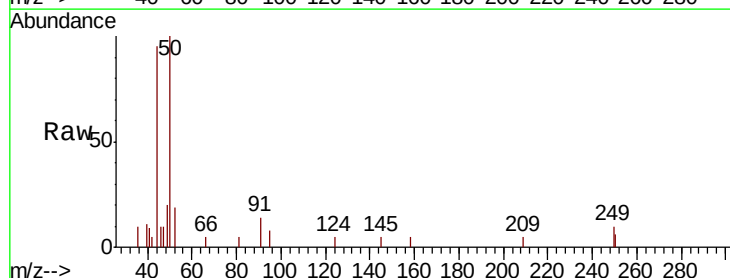
Acq: 23 Jul 2020 13:57

Tgt Ion: 50 Resp: 2301

Ion Ratio Lower Upper

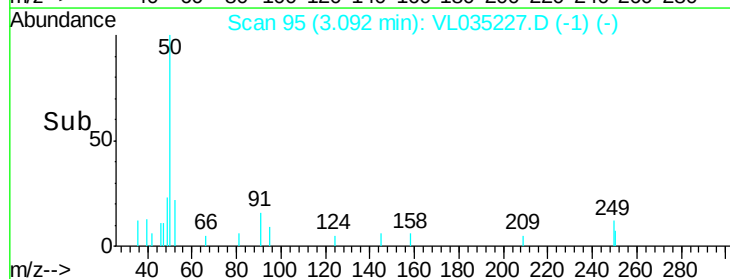
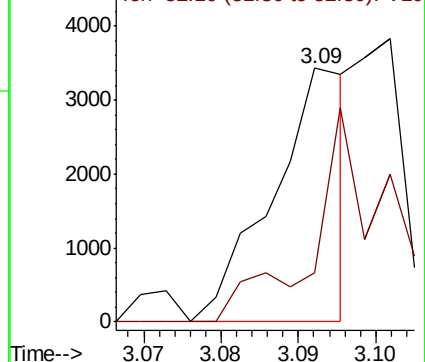
50 100

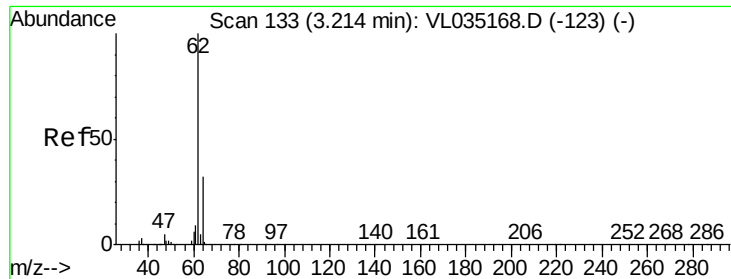
52 19.1 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.059 ppbv

RT: 3.21 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

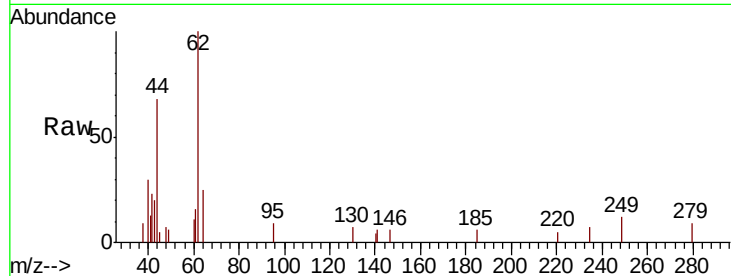
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 62 Resp: 4766

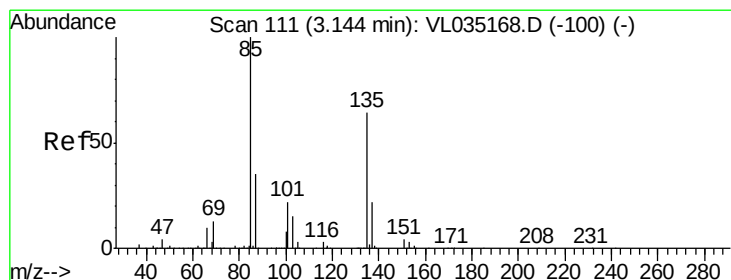
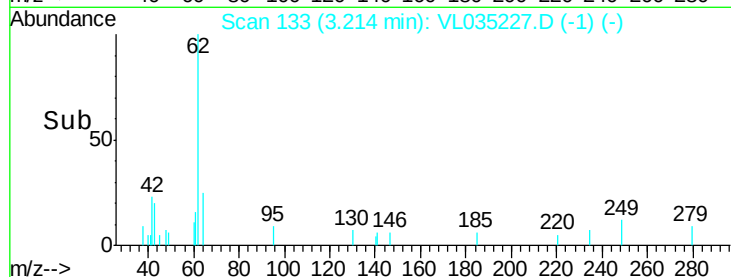
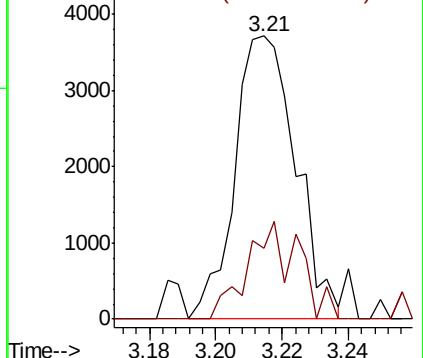
Ion Ratio Lower Upper

62 100

64 25.2 25.9 38.9#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 64.10 (63.80 to 64.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.058 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL035227.D

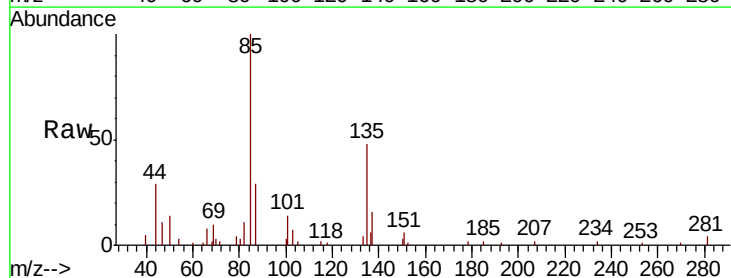
Acq: 23 Jul 2020 13:57

Tgt Ion: 85 Resp: 10798

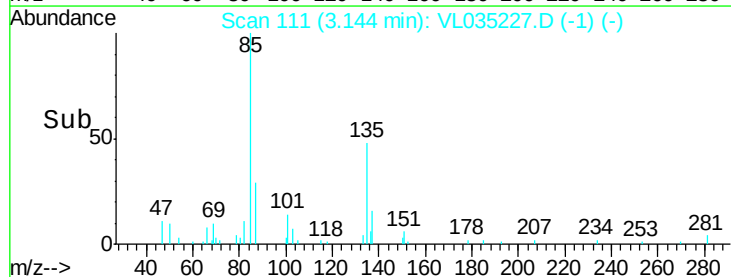
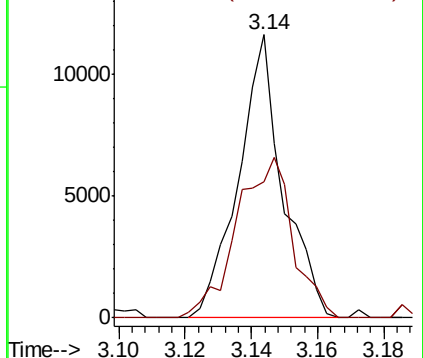
Ion Ratio Lower Upper

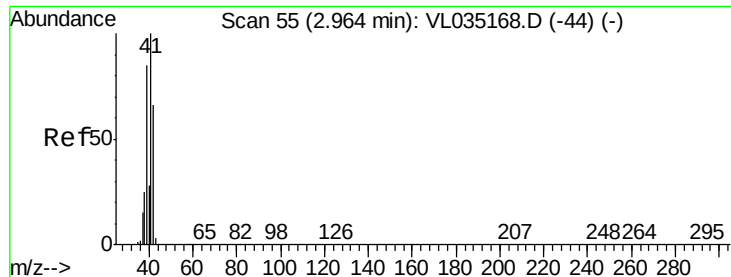
85 100

135 71.7 52.1 78.1



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.049 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Instrument :

MSVOA_L

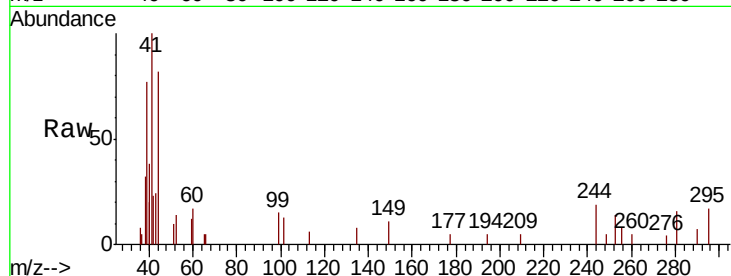
ClientSampled :

Tot Ion: 41 Resp: 2457

Ion Ratio Lower Upper

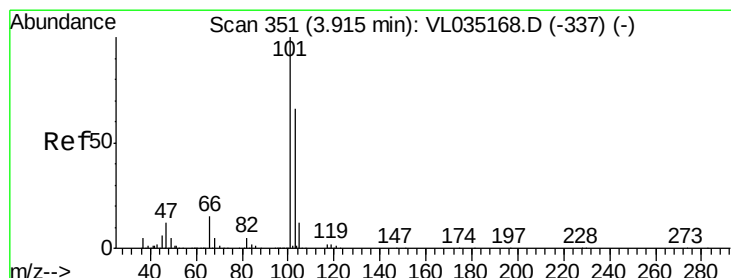
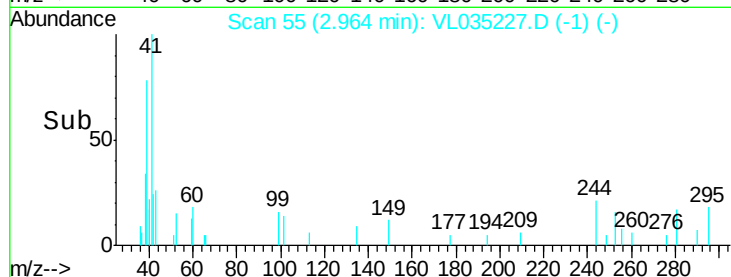
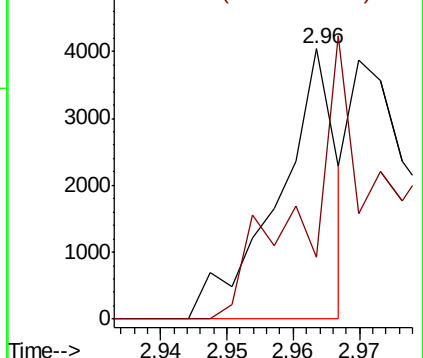
41 100

42 0.0 54.6 81.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.064 ppbv

RT: 3.92 min Scan# 353

Delta R.T. 0.01 min

Lab File: VL035227.D

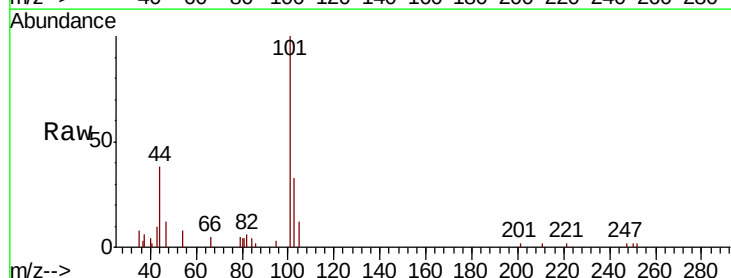
Acq: 23 Jul 2020 13:57

Tgt Ion: 101 Resp: 12268

Ion Ratio Lower Upper

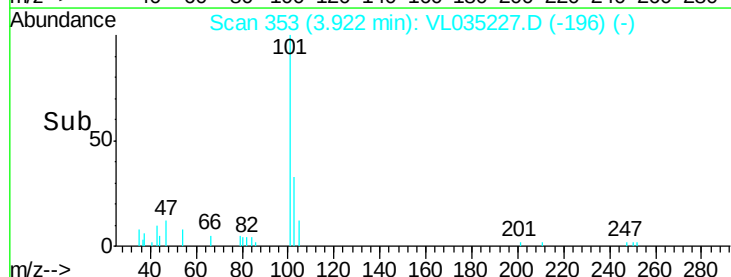
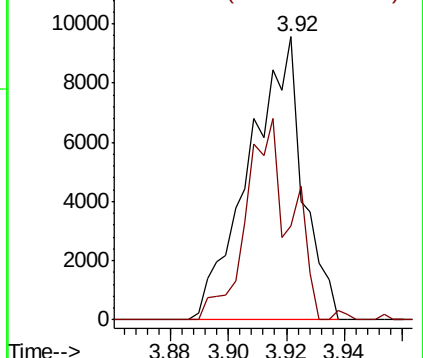
101 100

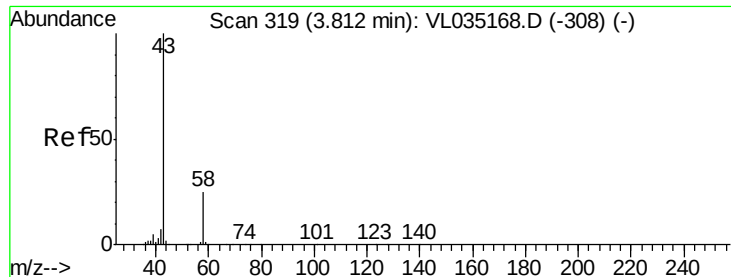
103 33.1 53.1 79.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#15

Acetone

Concen: 0.280 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.02 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Instrument :

MSVOA_L

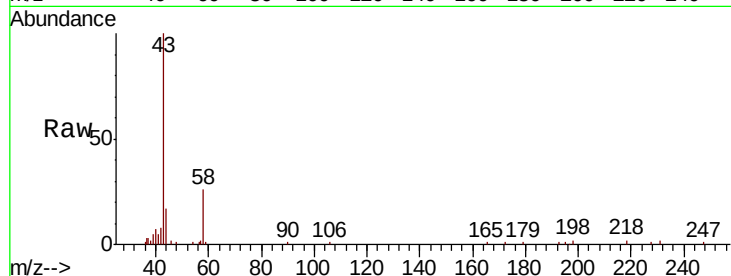
ClientSampleId :

Tot Ion: 43 Resp: 45857

Ion Ratio Lower Upper

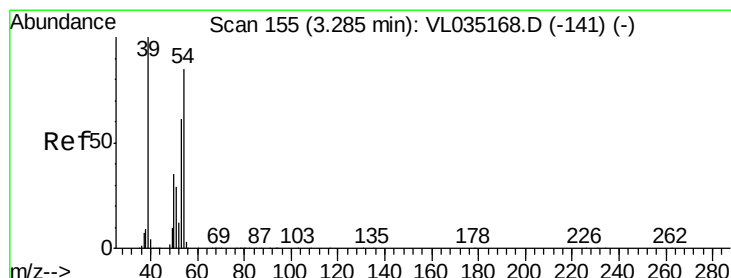
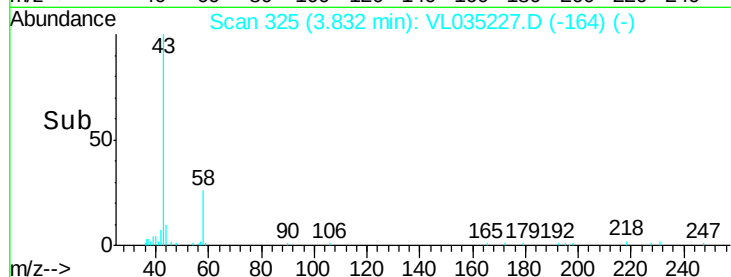
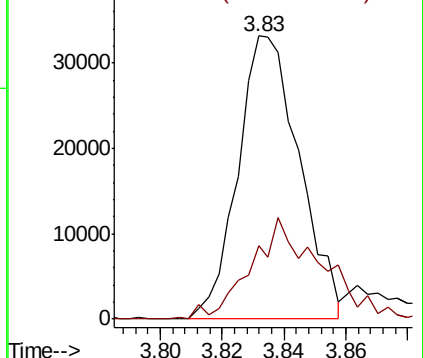
43 100

58 41.7 21.3 31.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.055 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.01 min

Lab File: VL035227.D

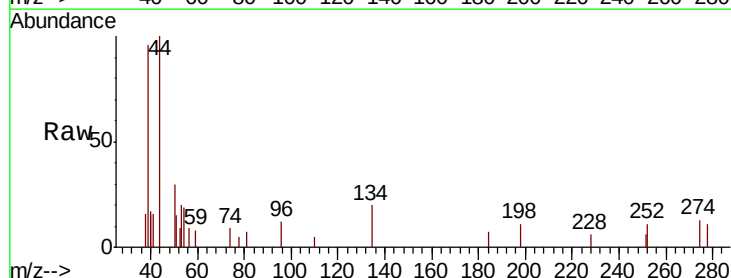
Acq: 23 Jul 2020 13:57

Tgt Ion: 39 Resp: 3441

Ion Ratio Lower Upper

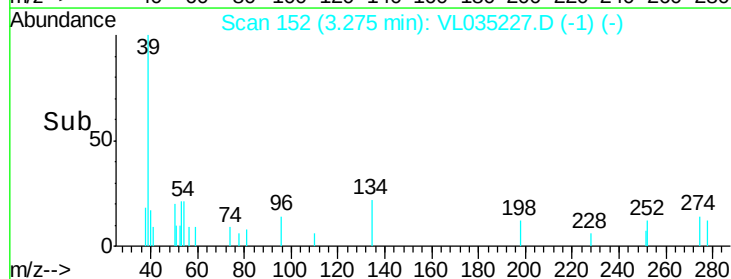
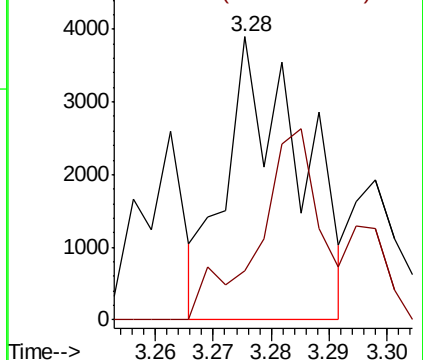
39 100

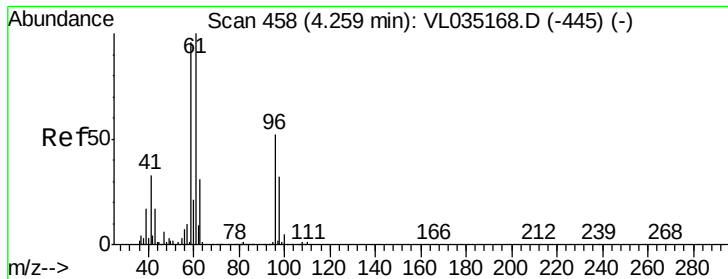
54 72.9 67.2 100.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#18

1,1-Dichloroethene

Concen: 0.035 ppbv

RT: 4.26 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Instrument :

MSVOA_L

ClientSampled :

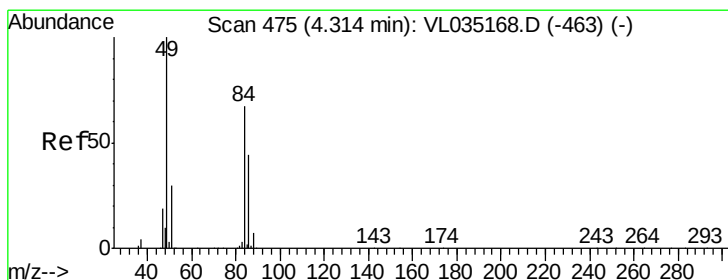
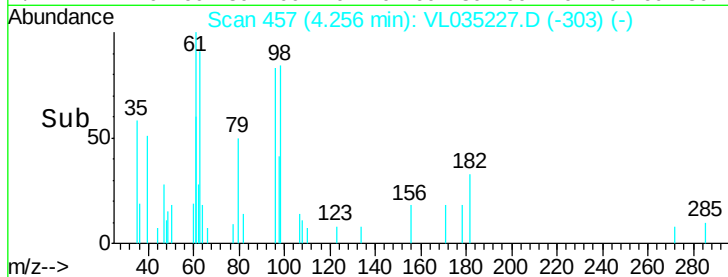
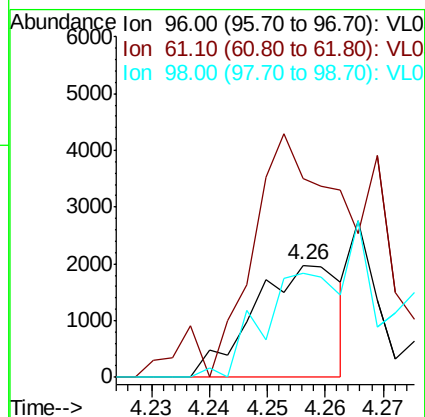
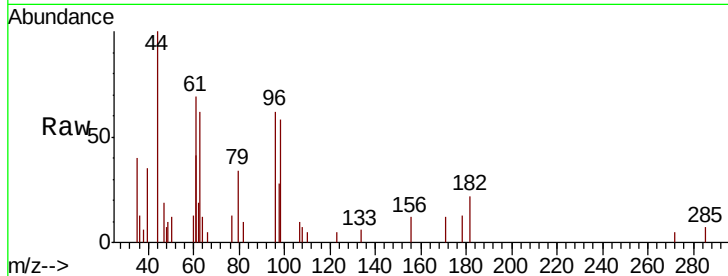
Tot Ion: 96 Resp: 2055

Ion Ratio Lower Upper

96 100

61 131.8 152.9 229.3#

98 93.1 48.7 73.1#



#20

Methylene Chloride

Concen: 0.225 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Tgt Ion: 84 Resp: 16010

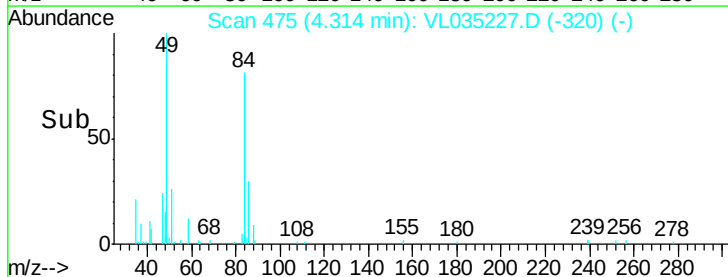
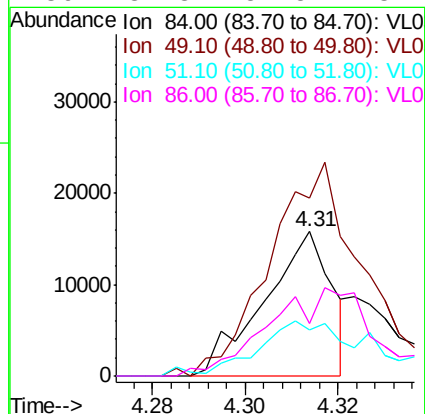
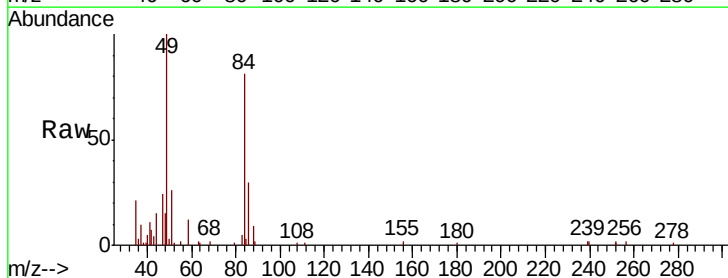
Ion Ratio Lower Upper

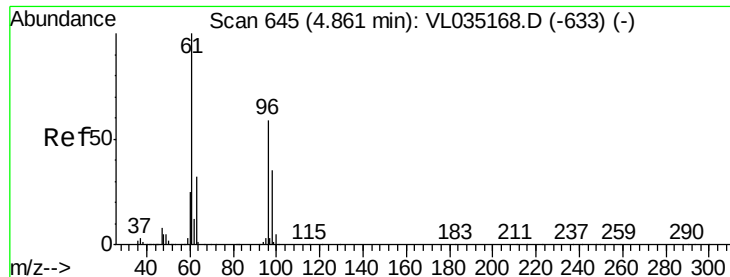
84 100

49 123.6 119.4 179.0

51 29.1 36.6 55.0#

86 31.3 52.5 78.7#





#22

trans-1,2-Dichloroethene

Concen: 0.052 ppbv

RT: 4.86 min Scan# 645

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Instrument :

MSVOA_L

ClientSampled :

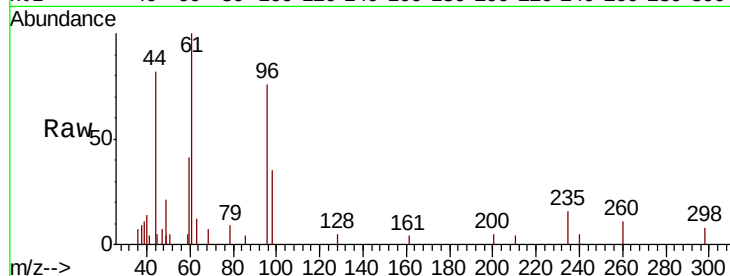
Tot Ion: 96 Resp: 3115

Ion Ratio Lower Upper

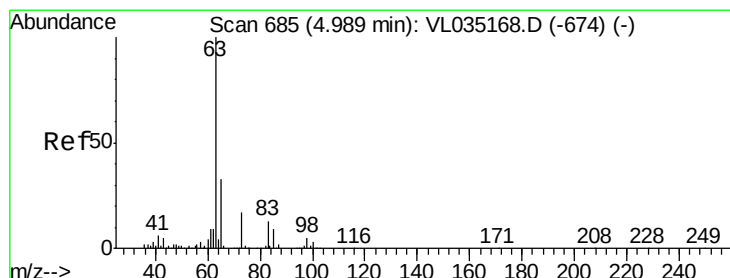
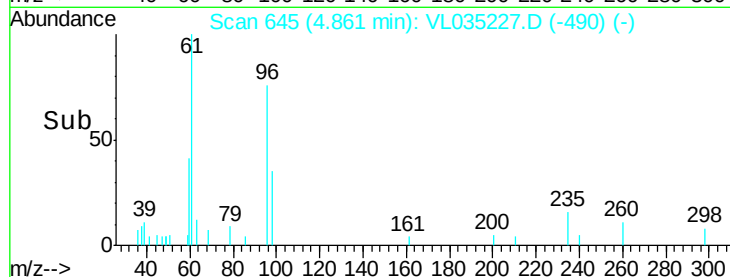
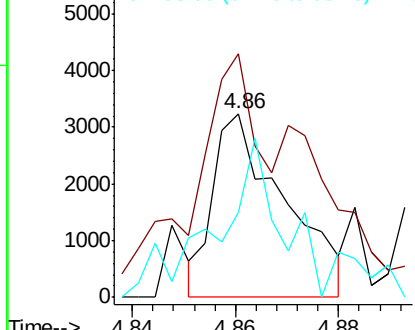
96 100

61 123.0 136.5 204.7#

98 26.6 47.5 71.3#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#24

1,1-Dichloroethane

Concen: 0.052 ppbv

RT: 4.98 min Scan# 683

Delta R.T. -0.01 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

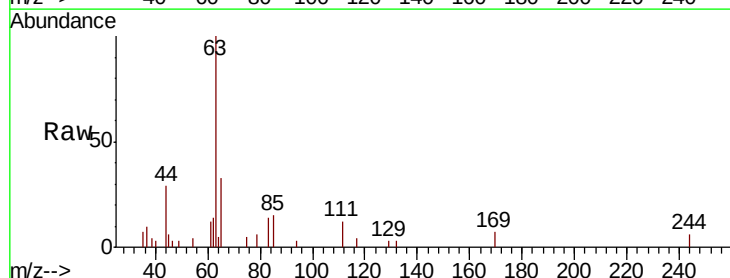
Tgt Ion: 63 Resp: 7898

Ion Ratio Lower Upper

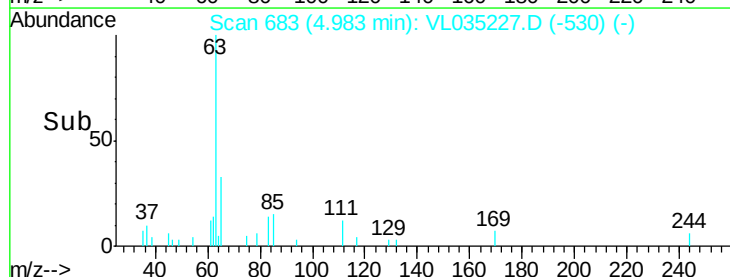
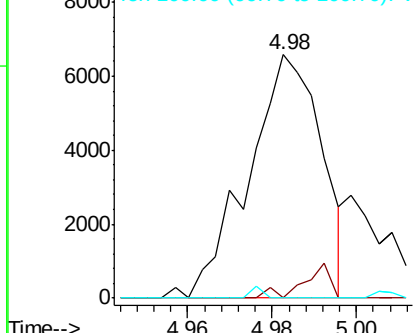
63 100

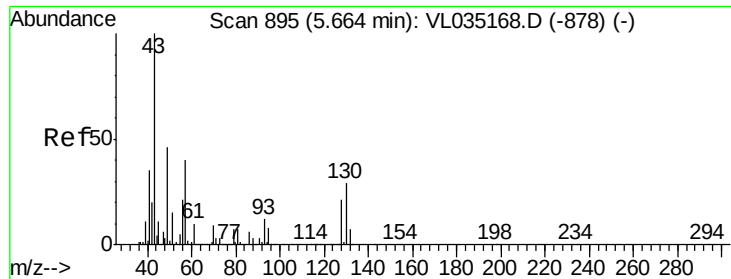
98 0.0 2.4 7.1#

100 0.0 1.4 4.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0

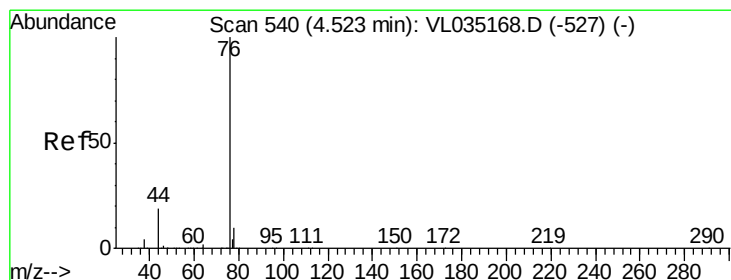
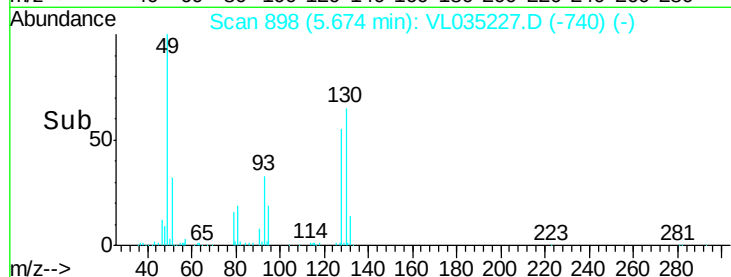
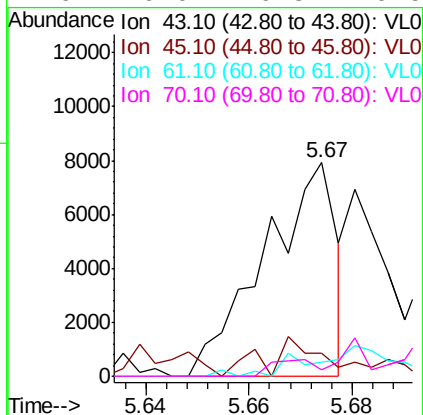
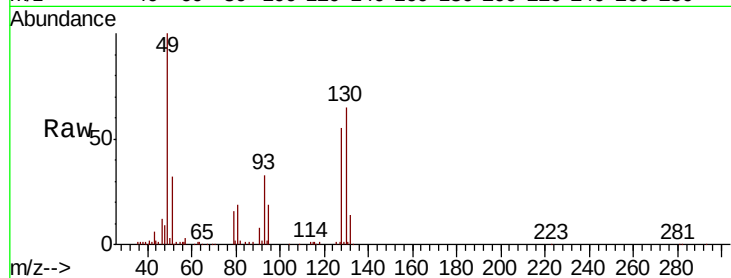




#25
Ethyl Acetate
Concen: 0.030 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL035227.D
Acq: 23 Jul 2020 13:57

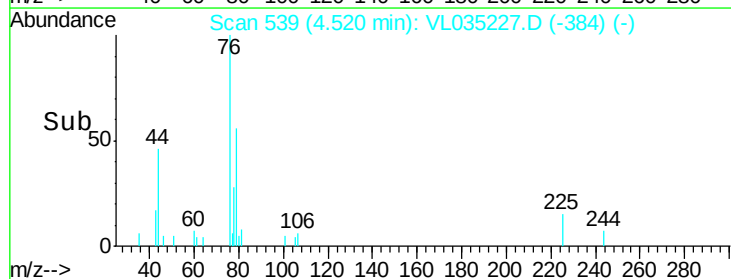
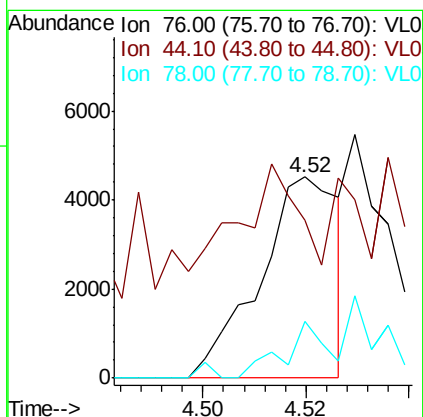
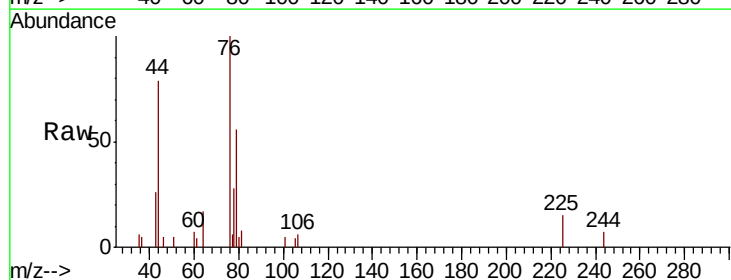
Instrument :
MSVOA_L
ClientSampleId :

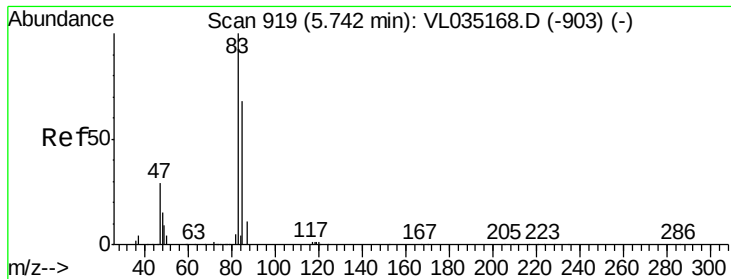
Tot Ion:	43	Resp:	7662
Ion	Ratio	Lower	Upper
43	100		
45	15.6	8.5	12.7#
61	0.0	8.1	12.1#
70	0.0	6.3	9.5#



#27
Carbon Disulfide
Concen: 0.030 ppbv
RT: 4.52 min Scan# 539
Delta R.T. -0.00 min
Lab File: VL035227.D
Acq: 23 Jul 2020 13:57

Tgt Ion:	76	Resp:	4767
Ion	Ratio	Lower	Upper
76	100		
44	98.9	14.9	22.3#
78	0.0	7.5	11.3#

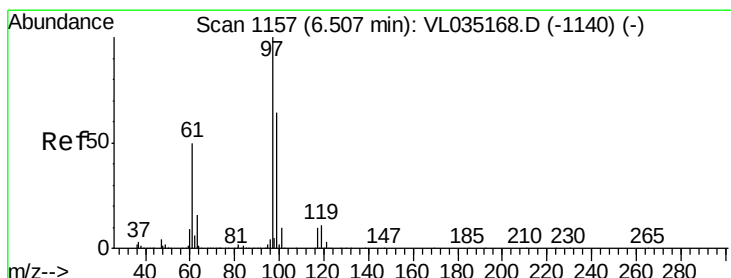
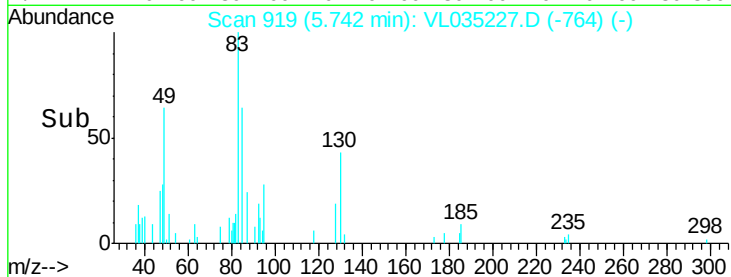
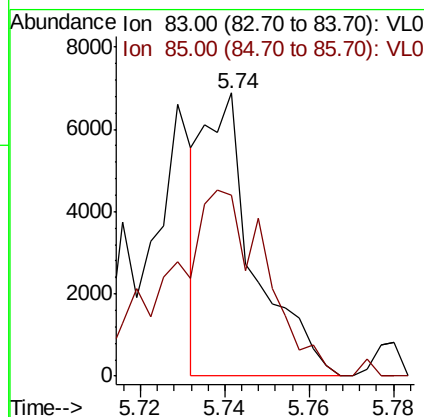
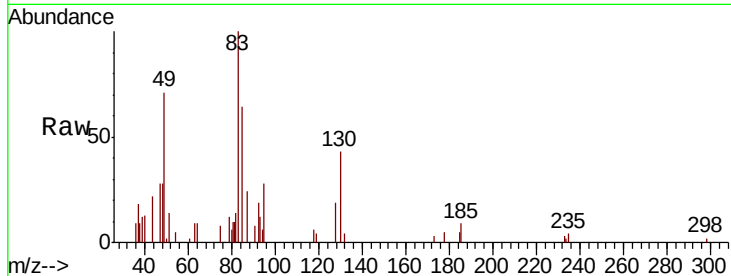




#29
Chloroform
Concen: 0.030 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.00 min
Lab File: VL035227.D
Acq: 23 Jul 2020 13:57

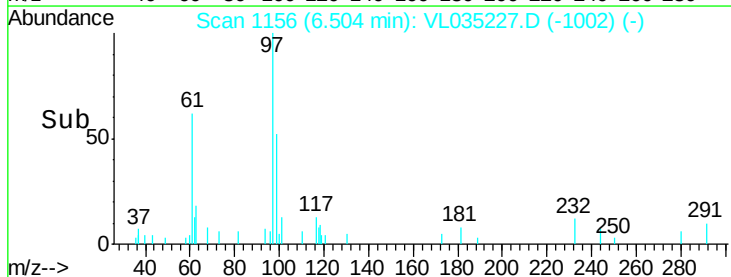
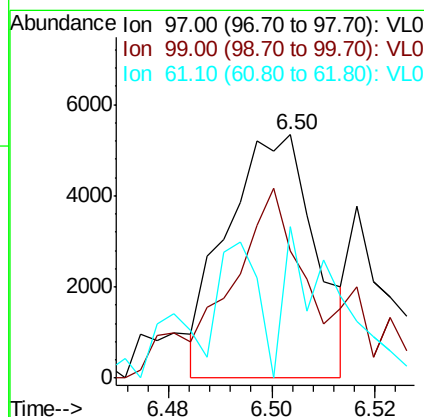
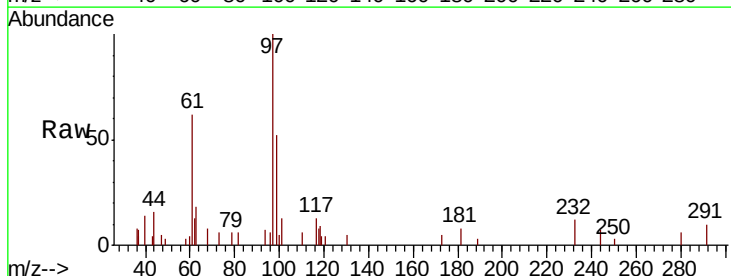
Instrument :
MSVOA_L
ClientSampleId :

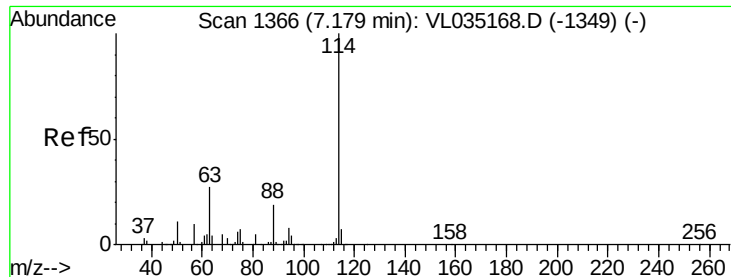
Tot Ion: 83 Resp: 5716
Ion Ratio Lower Upper
83 100
85 64.0 54.3 81.5



#32
1,1,1-Trichloroethane
Concen: 0.034 ppbv
RT: 6.50 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VL035227.D
Acq: 23 Jul 2020 13:57

Tgt Ion: 97 Resp: 6327
Ion Ratio Lower Upper
97 100
99 86.8 51.2 76.8#
61 76.8 40.9 61.3#

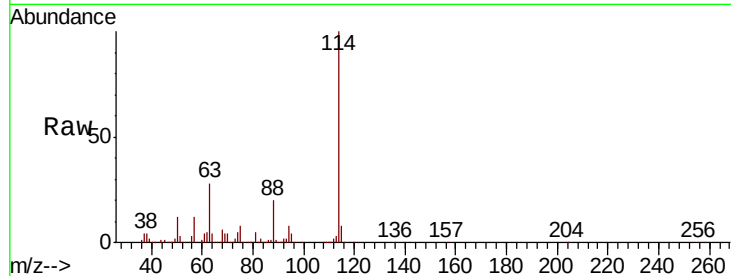




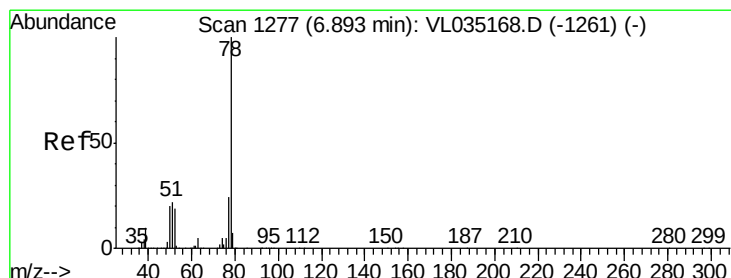
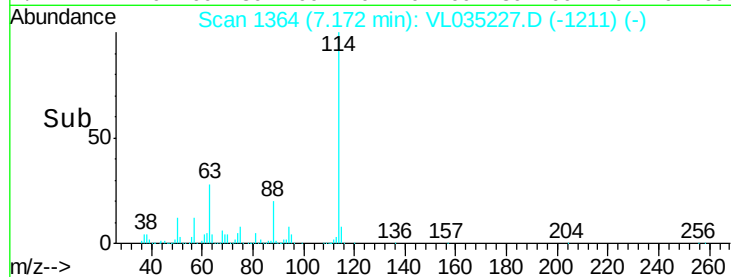
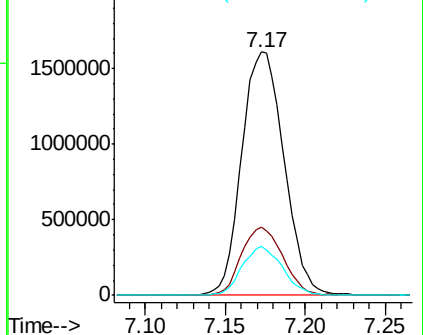
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL035227.D
 Acq: 23 Jul 2020 13:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2903672
 Ion Ratio Lower Upper
 114 100
 63 27.8 22.0 33.0
 88 19.3 15.4 23.0

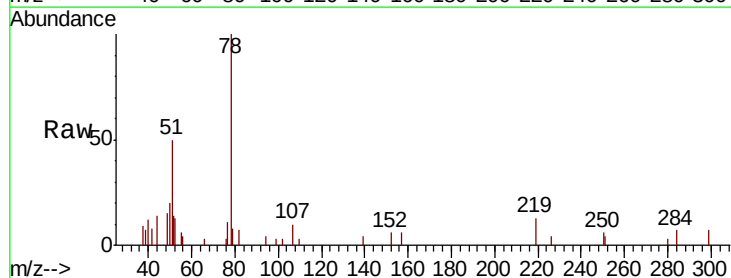


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

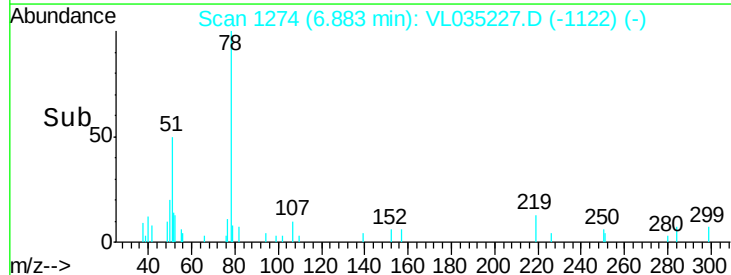
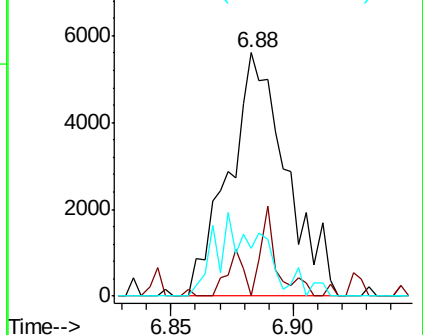


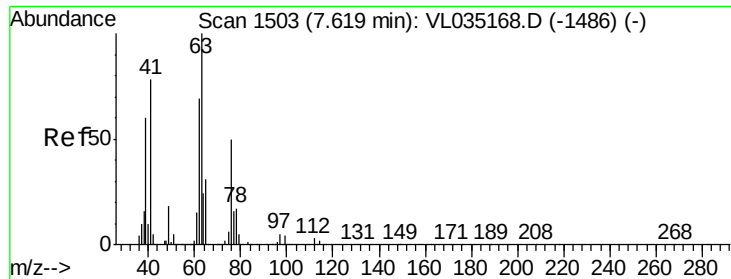
#36
 Benzene
 Concen: 0.044 ppbv
 RT: 6.88 min Scan# 1274
 Delta R.T. -0.01 min
 Lab File: VL035227.D
 Acq: 23 Jul 2020 13:57

Tgt Ion: 78 Resp: 9155
 Ion Ratio Lower Upper
 78 100
 77 0.0 19.3 28.9#
 50 18.4 16.0 24.0



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: 9.550 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Instrument :

MSVOA_L

ClientSampleId :

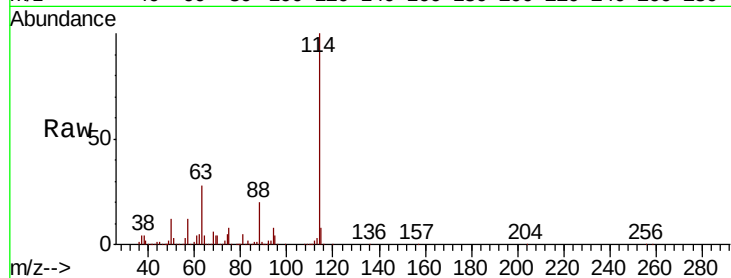
Tot Ion: 63 Resp: 798150

Ion Ratio Lower Upper

63 100

41 0.2 62.6 94.0#

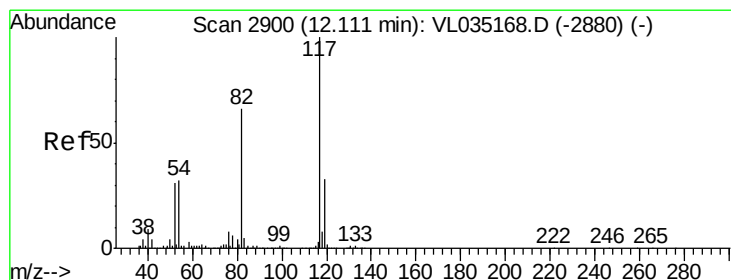
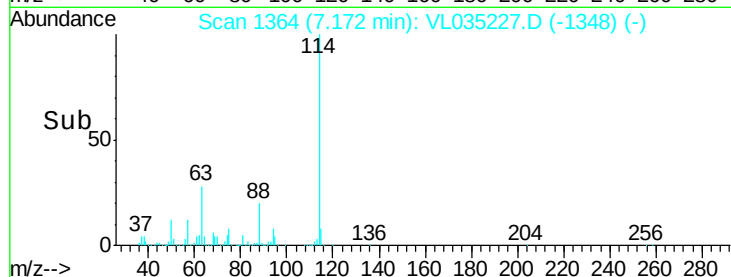
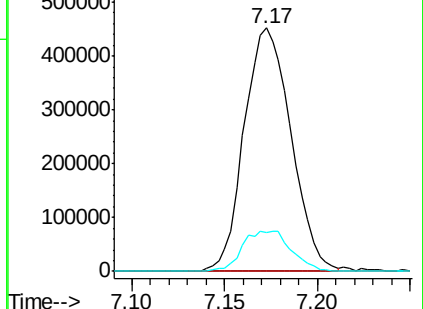
62 16.1 55.0 82.6#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

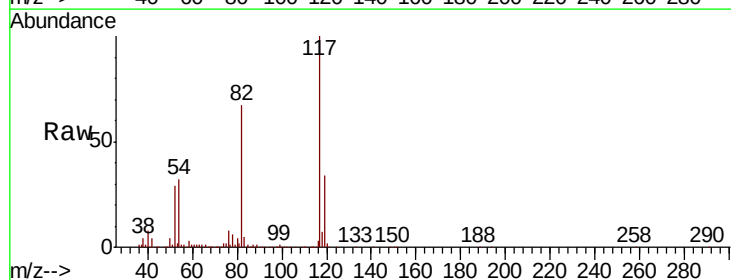
Tgt Ion: 117 Resp: 2719729

Ion Ratio Lower Upper

117 100

82 68.4 52.3 78.5

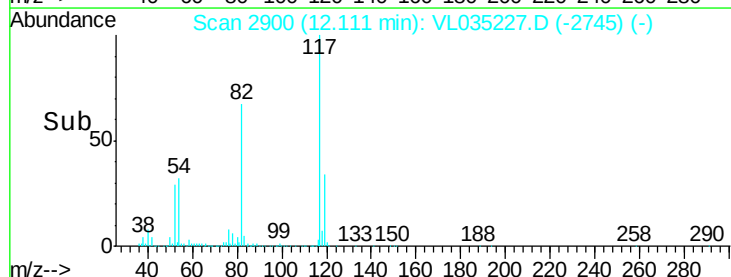
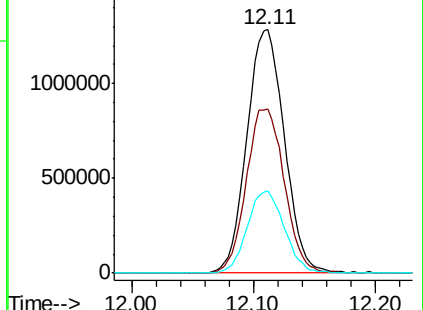
119 33.6 24.9 37.3

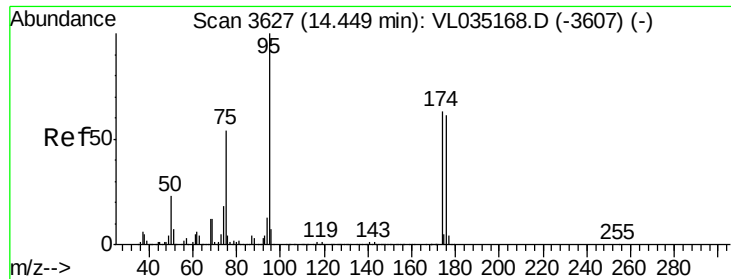


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.158 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.00 min

Lab File: VL035227.D

Acq: 23 Jul 2020 13:57

Instrument :

MSVOA_L

ClientSampleId :

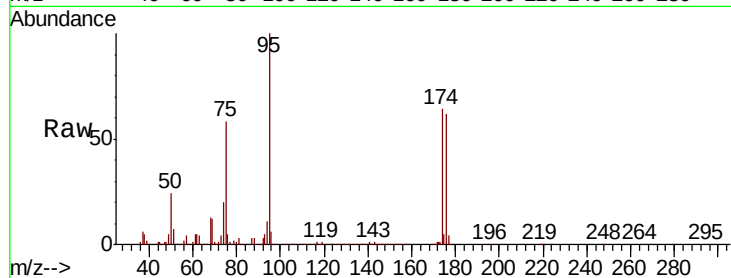
Tot Ion: 95 Resp: 2244277

Ion Ratio Lower Upper

95 100

174 64.7 52.2 78.2

175 4.9 4.0 6.0



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

