

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036609.D
 Acq On : 31 Mar 2021 19:48
 Operator : SY/AP
 Sample : M1808-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:29:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1511623	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3455585	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3055154	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2244106	9.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

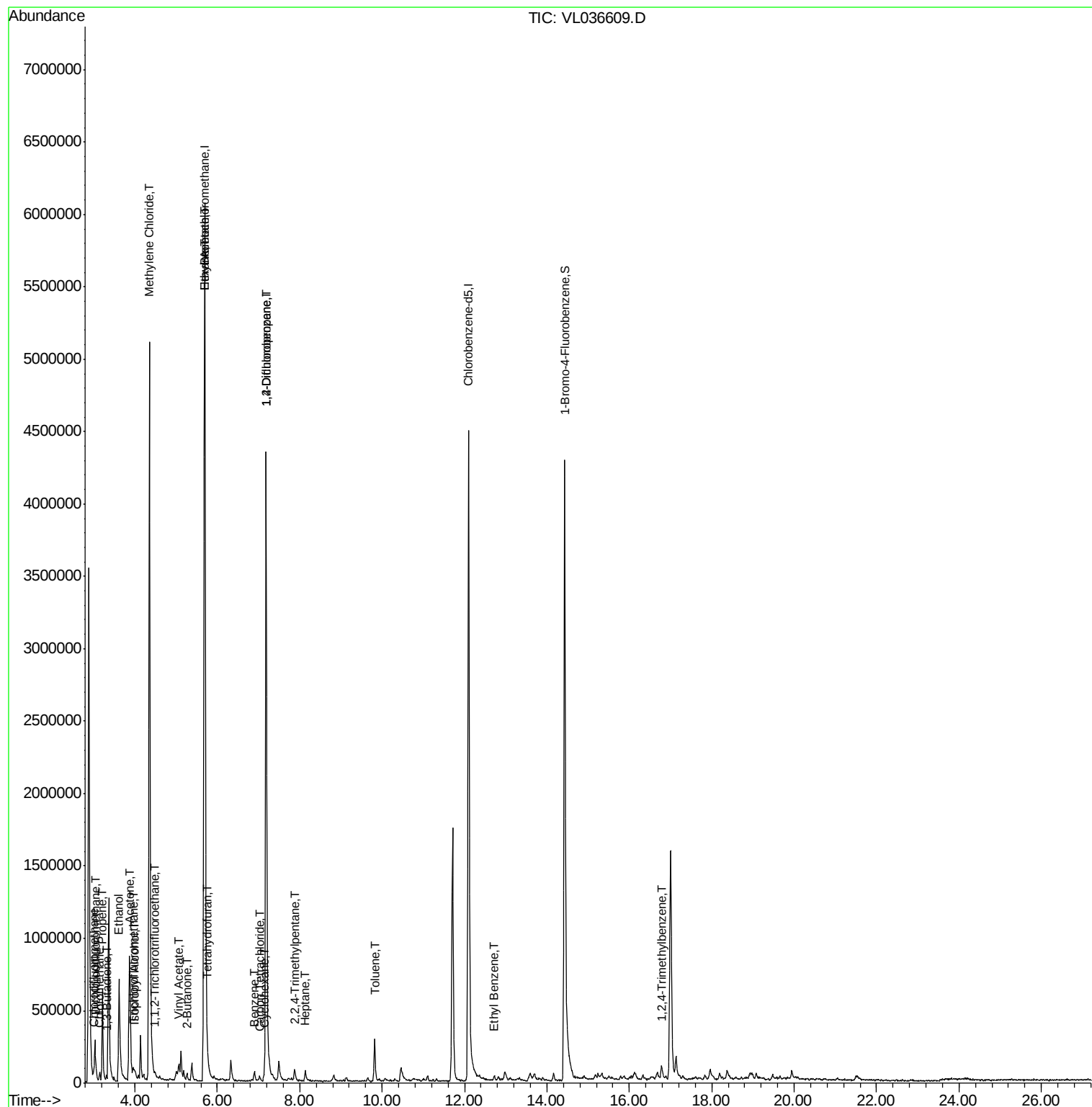
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	49101	0.199	ppbv 99
3) Chlorodifluoromethane	2.99	51	64284	0.228	ppbv 94
4) Chloromethane	3.15	50	53317	0.534	ppbv 92
9) Propene	3.21	41	201228	2.235	ppbv 97
10) Heptane	8.14	43	7066	0.031	ppbv # 1
11) Trichlorofluoromethane	3.96	101	43643	0.174	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	7013	0.044	ppbv # 54
13) Ethanol	3.61	45	938825	87.562	ppbv 98
15) Acetone	3.86	43	1131775	7.607	ppbv 94
16) 1,3-Butadiene	3.31	39	4511	0.044	ppbv # 13
19) Isopropyl Alcohol	4.00	45	11064	0.135	ppbv # 89
20) Methylene Chloride	4.35	84	2006040	28.798	ppbv 90
23) Vinyl Acetate	5.07	43	21052	0.083	ppbv # 24
25) Ethyl Acetate	5.69	43	1723608	4.873	ppbv # 77
26) Hexane	5.69	57	2259585	13.766	ppbv # 47
30) Cyclohexane	7.13	84	5033	0.038	ppbv # 1
34) 2-Butanone	5.26	43	43950	0.261	ppbv # 81
35) Carbon Tetrachloride	7.02	117	7596	0.029	ppbv # 90
36) Benzene	6.90	78	51600	0.162	ppbv 97
39) 1,2-Dichloropropane	7.19	63	935494	7.236	ppbv # 23
41) Tetrahydrofuran	5.75	42	13271	0.171	ppbv # 41
44) 2,2,4-Trimethylpentane	7.88	57	52091	0.093	ppbv # 70
53) Toluene	9.82	91	212810	0.627	ppbv 98
58) Ethyl Benzene	12.72	91	8911	0.020	ppbv 95
74) 1,2,4-Trimethylbenzene	16.78	105	8216	0.020	ppbv # 46

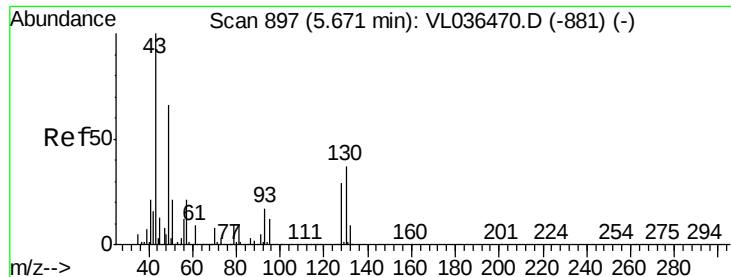
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

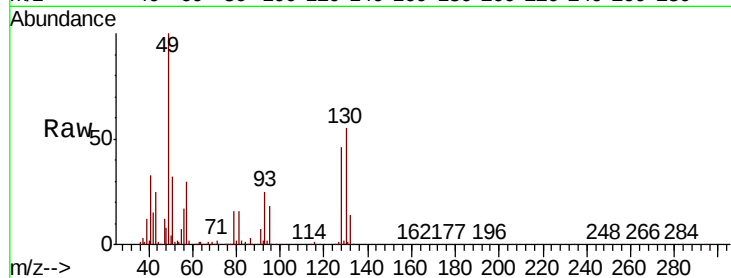
Tot Ion: 49 Resp: 1511623

Ion Ratio Lower Upper

49 100

128 44.5 23.5 70.6

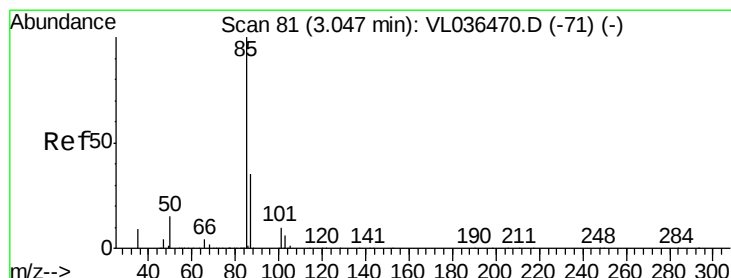
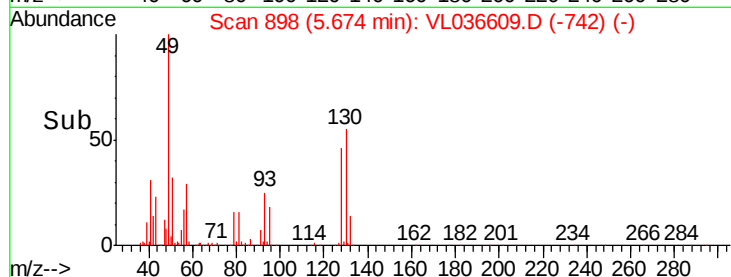
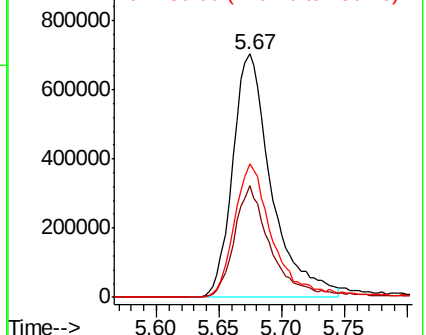
130 56.8 29.1 87.4



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



#2

Dichlorodifluoromethane

Concen: 0.199 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036609.D

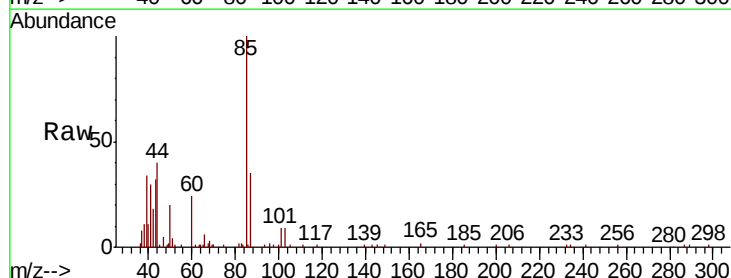
Acq: 31 Mar 2021 19:48

Tgt Ion: 85 Resp: 49101

Ion Ratio Lower Upper

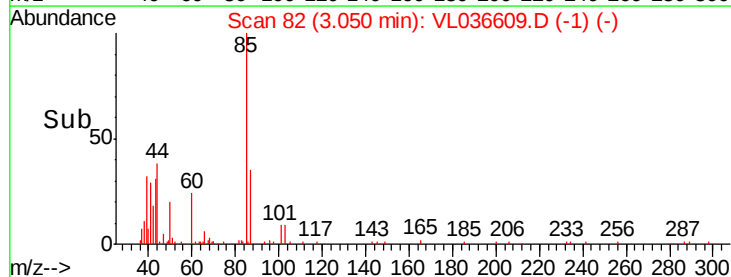
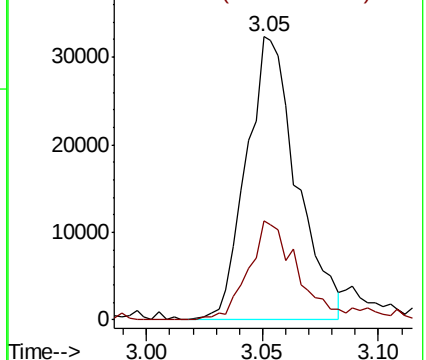
85 100

87 35.1 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.228 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

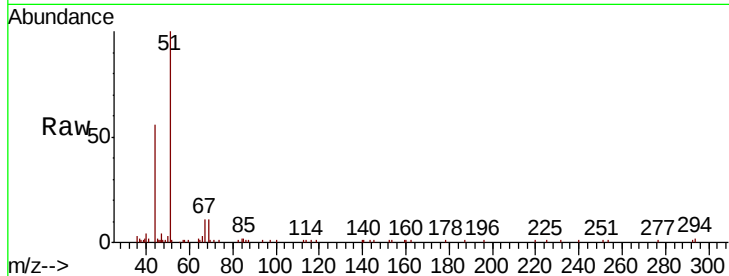
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 64284

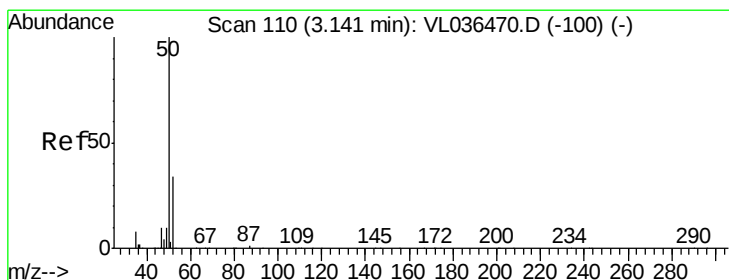
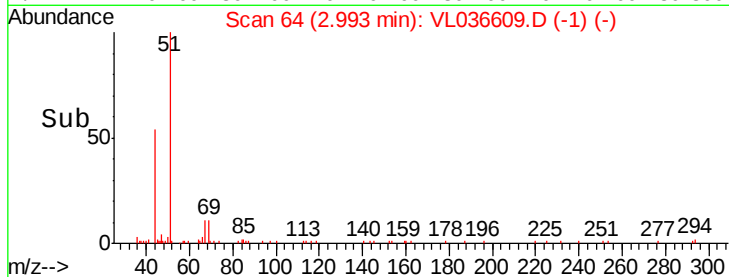
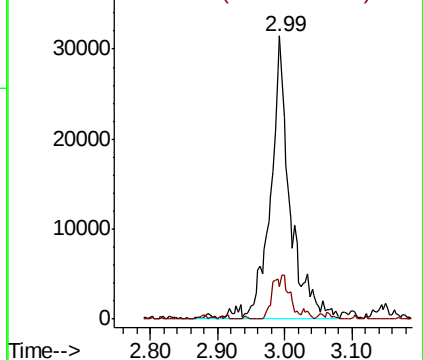
Ion Ratio Lower Upper

51 100

67 15.8 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.534 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036609.D

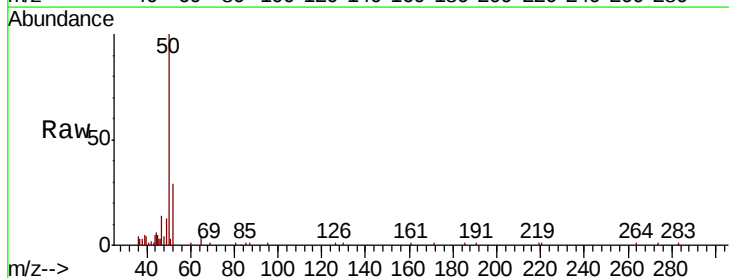
Acq: 31 Mar 2021 19:48

Tgt Ion: 50 Resp: 53317

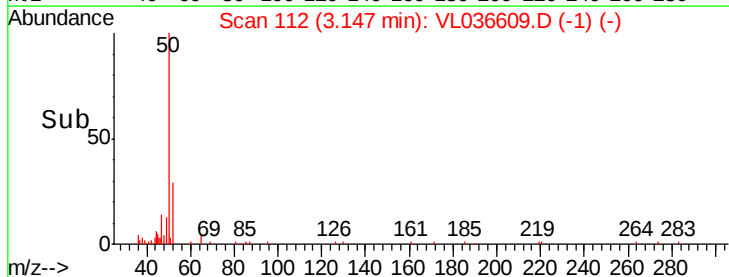
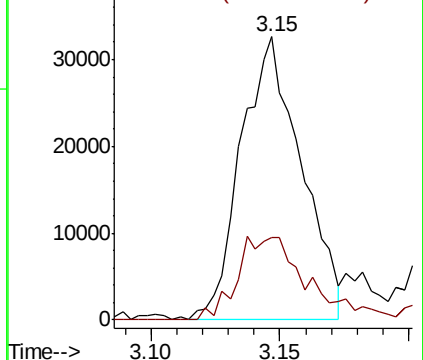
Ion Ratio Lower Upper

50 100

52 29.2 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.235 ppbv

RT: 3.21 min Scan# 131

Delta R.T. 0.20 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

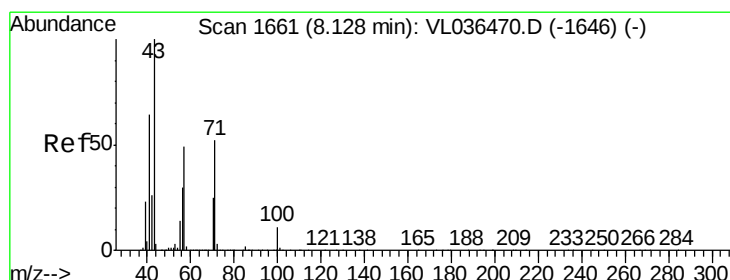
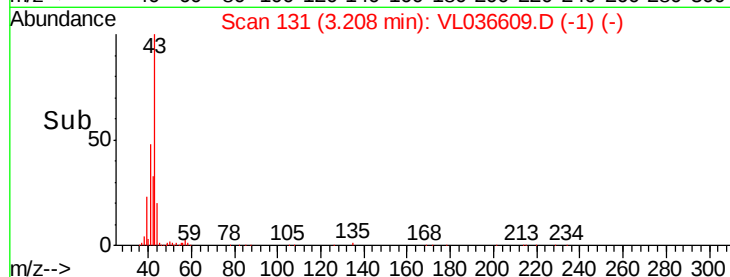
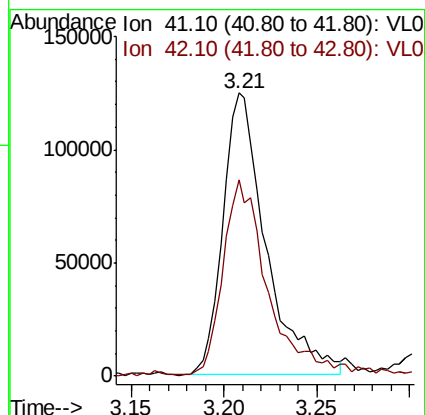
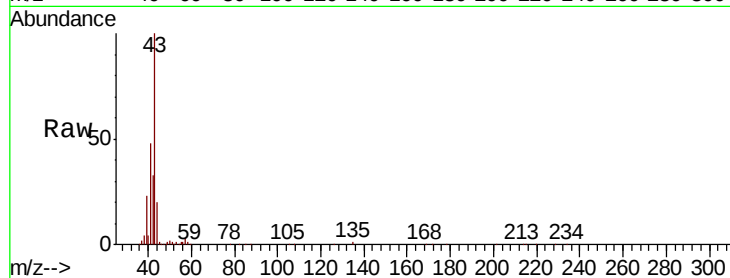
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 201228

Ion Ratio Lower Upper

41 100

42 74.0 57.0 85.4



#10

Heptane

Concen: 0.031 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL036609.D

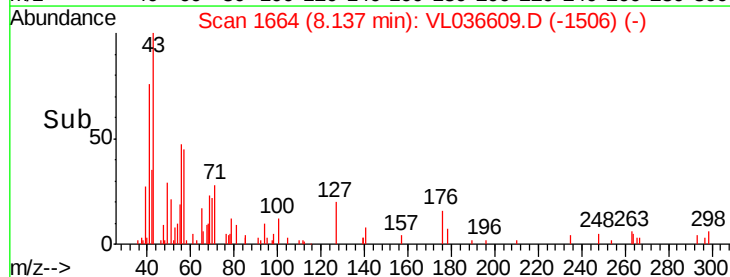
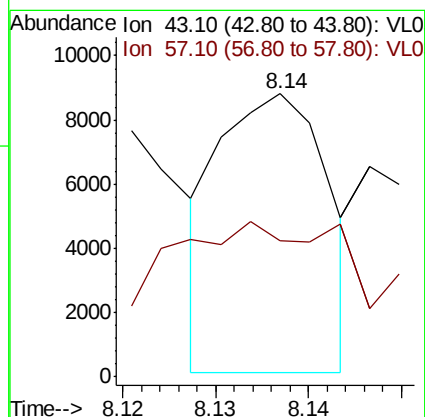
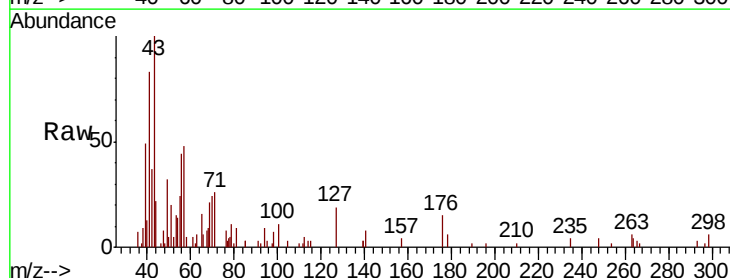
Acq: 31 Mar 2021 19:48

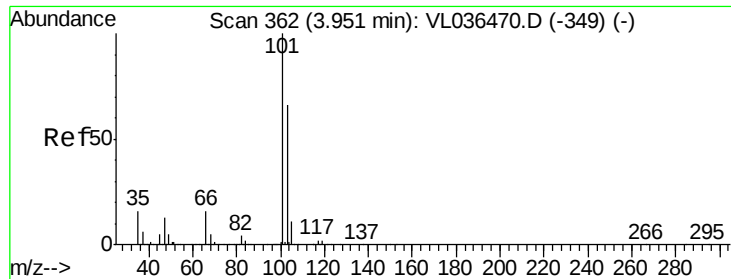
Tgt Ion: 43 Resp: 7066

Ion Ratio Lower Upper

43 100

57 155.0 39.0 58.6#

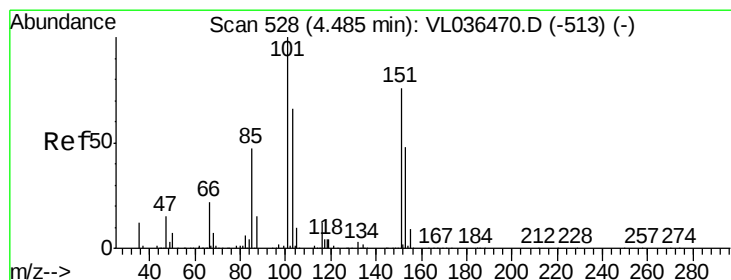
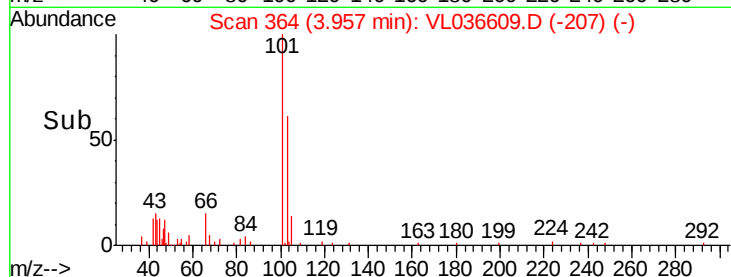
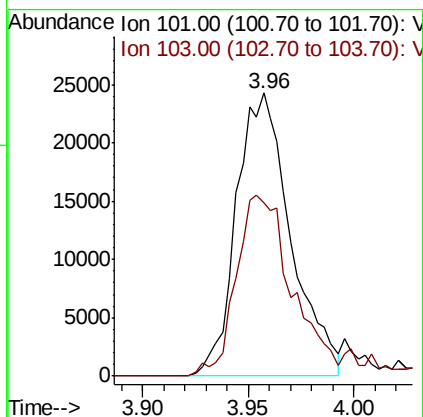
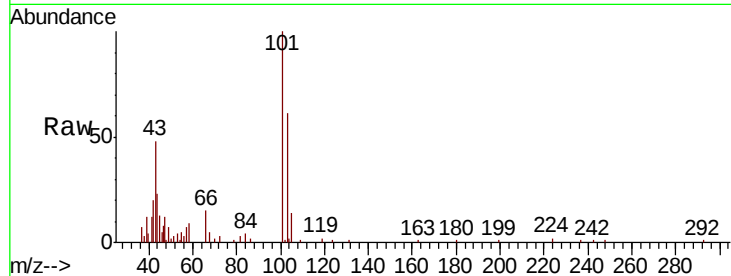




#11
 Trichlorofluoromethane
 Concen: 0.174 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VL036609.D
 Acq: 31 Mar 2021 19:48

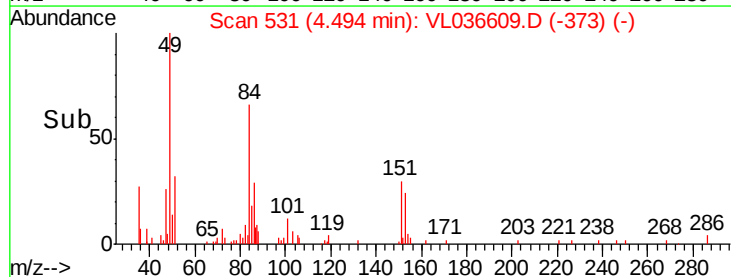
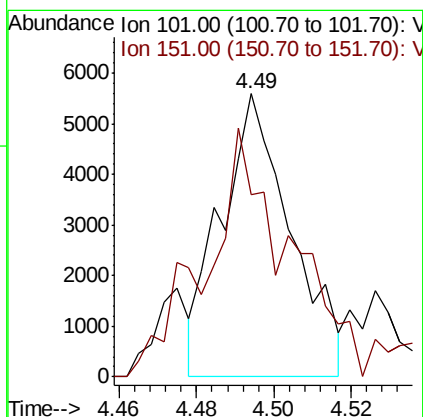
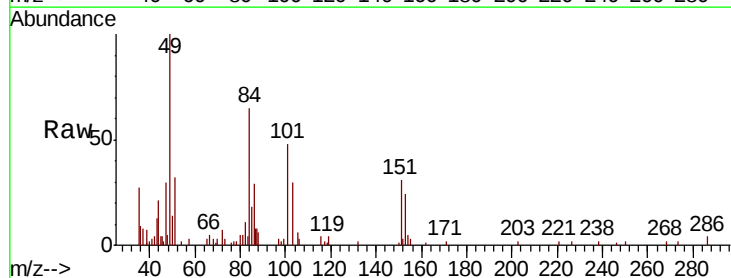
Instrument :
 MSVOA_L
 ClientSampleId :

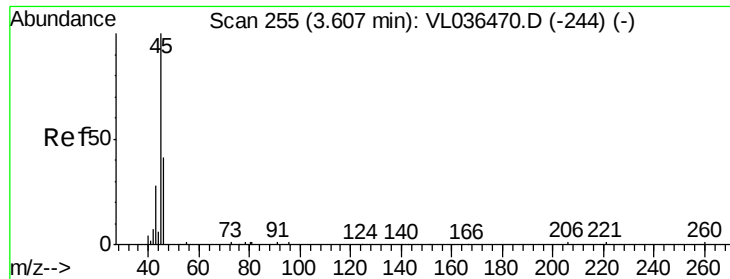
Tot Ion:101 Resp: 43643
 Ion Ratio Lower Upper
 101 100
 103 61.3 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.044 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VL036609.D
 Acq: 31 Mar 2021 19:48

Tgt Ion:101 Resp: 7013
 Ion Ratio Lower Upper
 101 100
 151 115.6 60.9 91.3#

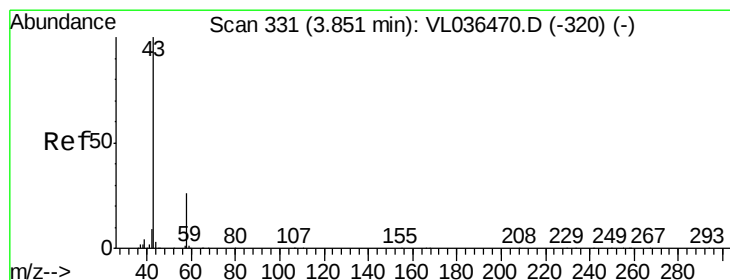
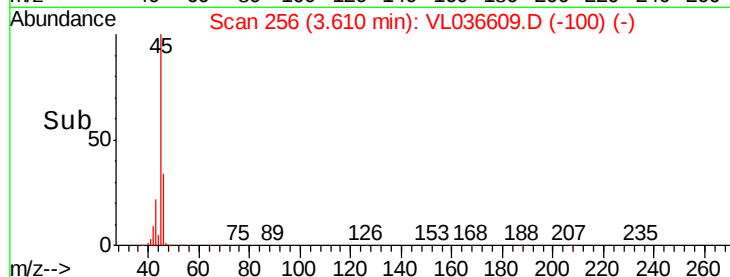
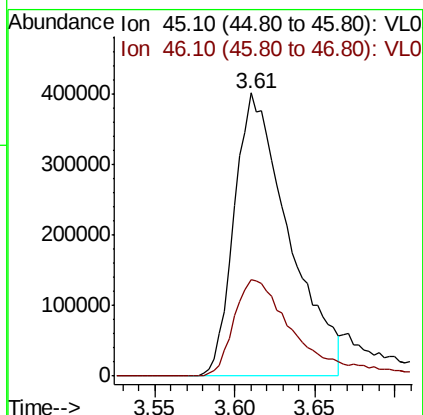
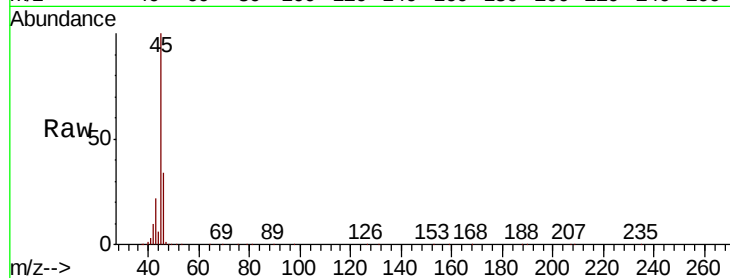




#13
Ethanol
Concen: 87.562 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

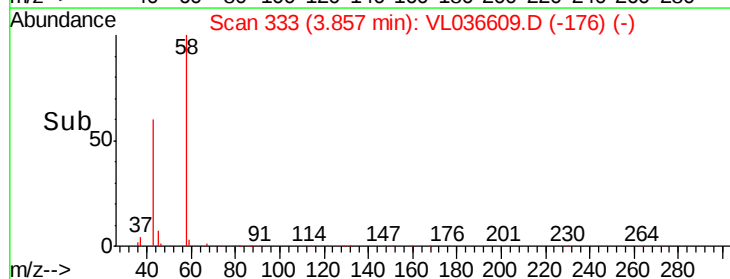
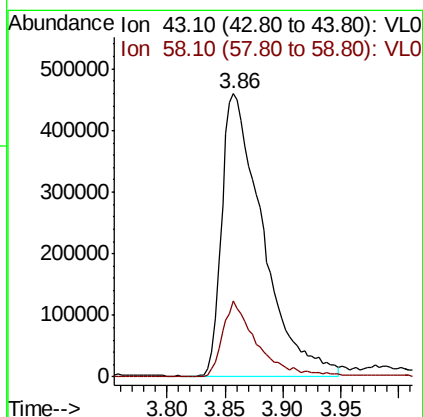
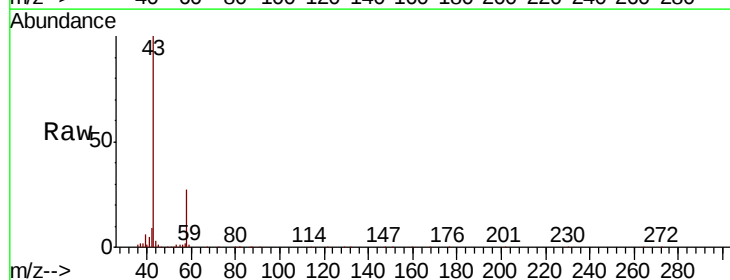
Instrument :
MSVOA_L
ClientSampleId :

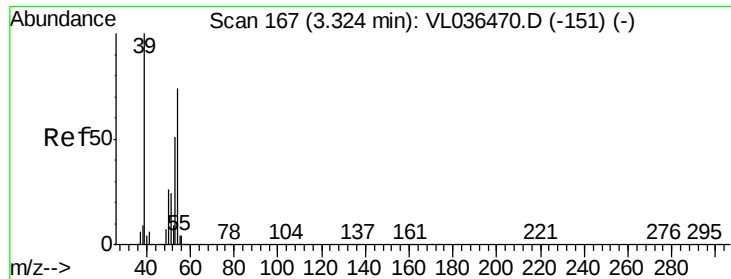
Tot Ion: 45 Resp: 938825
Ion Ratio Lower Upper
45 100
46 40.4 16.6 66.2



#15
Acetone
Concen: 7.607 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion: 43 Resp: 1131775
Ion Ratio Lower Upper
43 100
58 23.6 21.2 31.8





#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

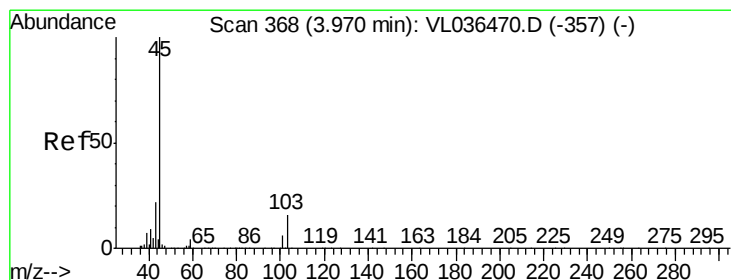
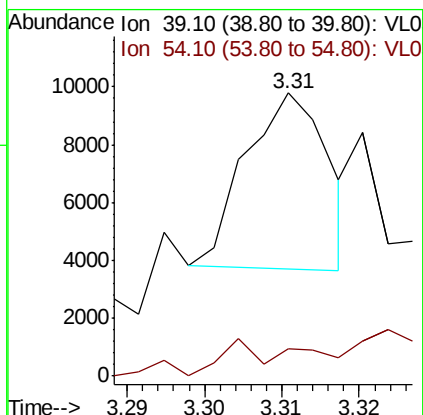
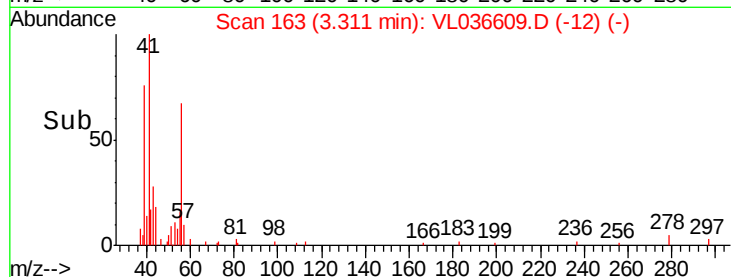
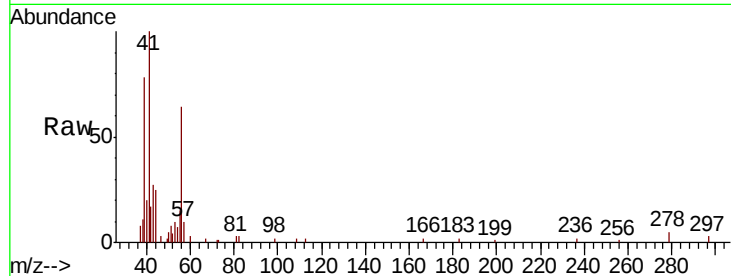
ClientSampleId :

Tot Ion: 39 Resp: 4511

Ion Ratio Lower Upper

39 100

54 0.0 58.8 88.2#



#19

Isopropyl Alcohol

Concen: 0.135 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.03 min

Lab File: VL036609.D

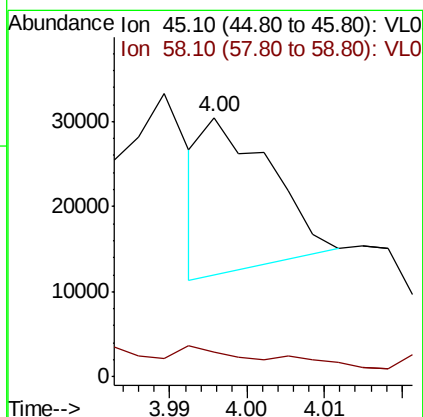
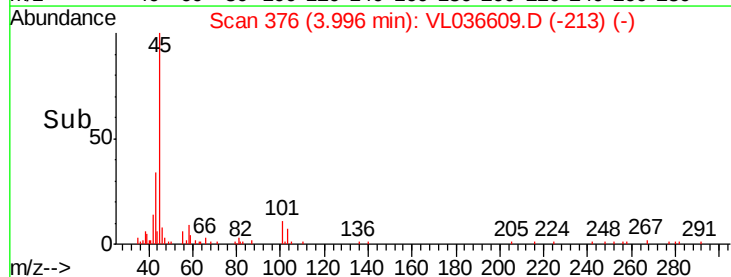
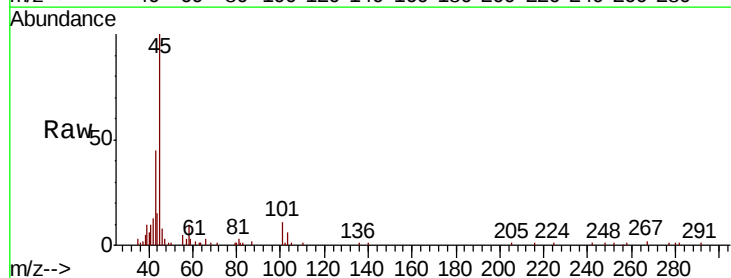
Acq: 31 Mar 2021 19:48

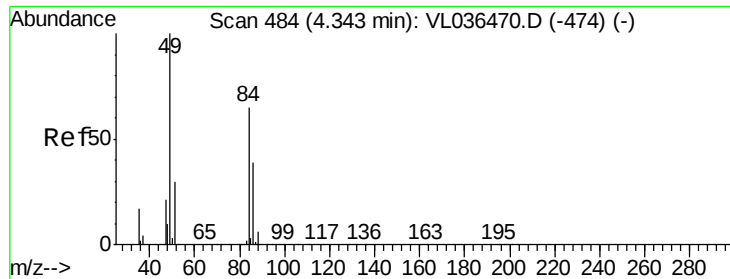
Tgt Ion: 45 Resp: 11064

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#

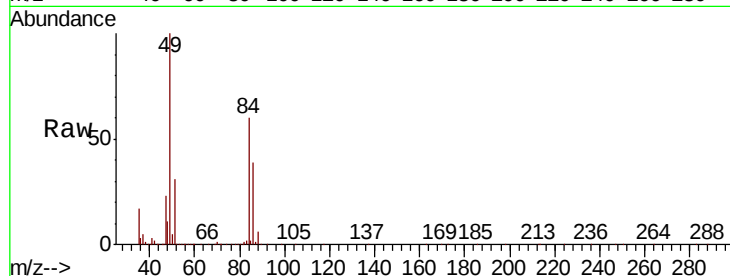




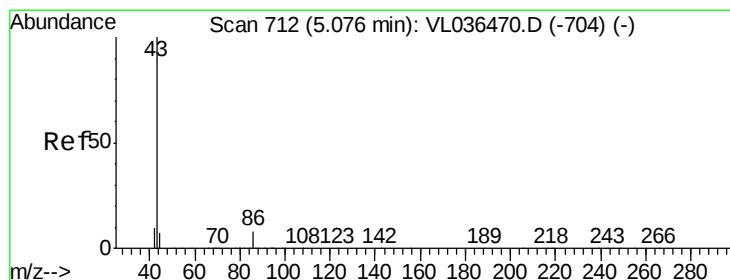
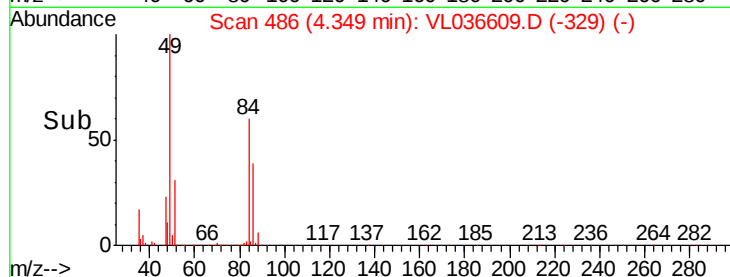
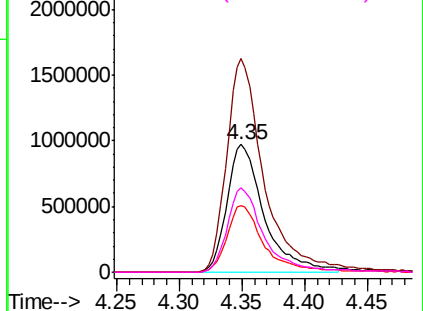
#20
Methvlene Chloride
Concen: 28.798 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 2006040
Ion Ratio Lower Upper
84 100
49 167.1 122.9 184.3
51 52.4 36.9 55.3
86 65.9 48.2 72.4

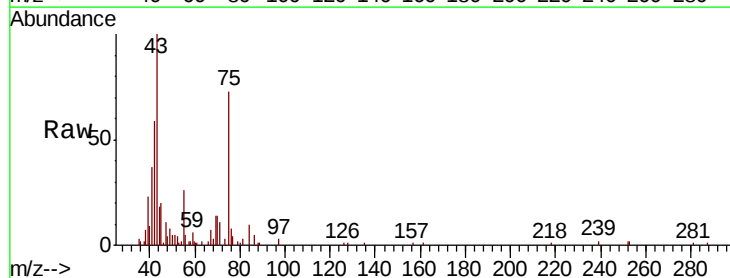


Abundance Ion 84.00 (83.70 to 84.70): VL0
2500000 Ion 49.10 (48.80 to 49.80): VL0
2000000 Ion 51.10 (50.80 to 51.80): VL0
1500000 Ion 86.00 (85.70 to 86.70): VL0
1000000
500000
0

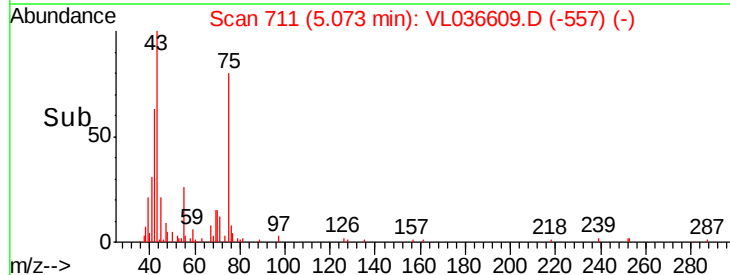
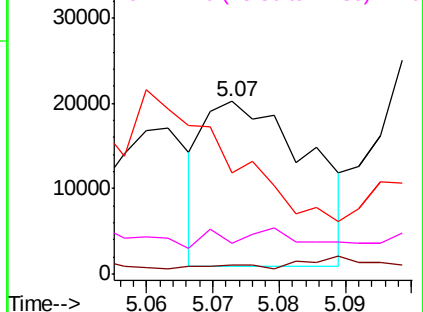


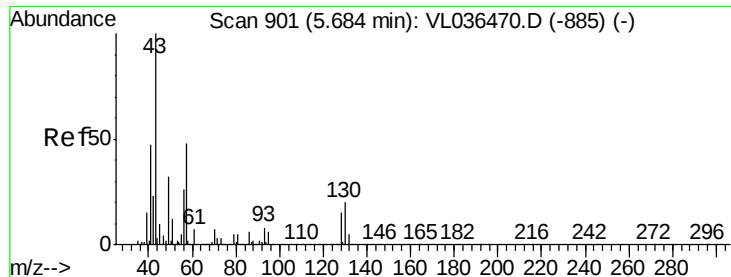
#23
Vinyl Acetate
Concen: 0.083 ppbv
RT: 5.07 min Scan# 711
Delta R.T. -0.00 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion: 43 Resp: 21052
Ion Ratio Lower Upper
43 100
86 1.7 5.4 8.0#
42 68.3 8.5 12.7#
44 7.2 4.6 7.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
40000 Ion 86.10 (85.80 to 86.80): VL0
30000 Ion 42.10 (41.80 to 42.80): VL0
20000 Ion 44.10 (43.80 to 44.80): VL0
10000
0



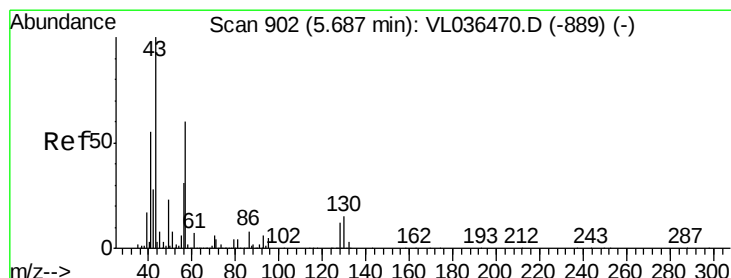
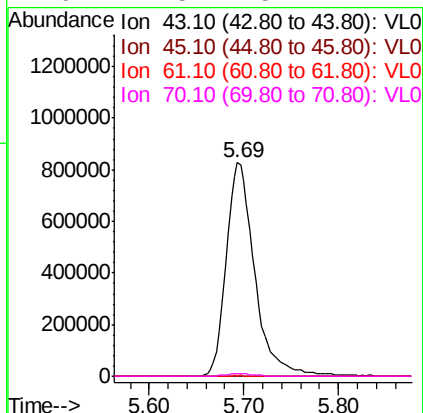
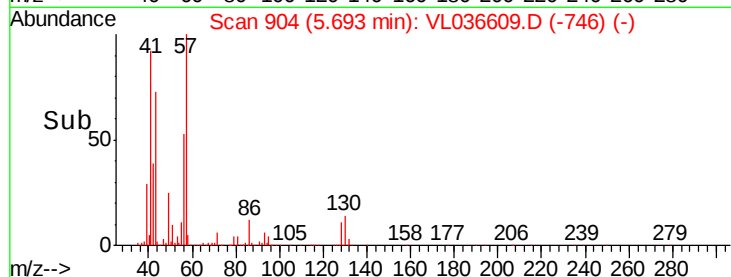
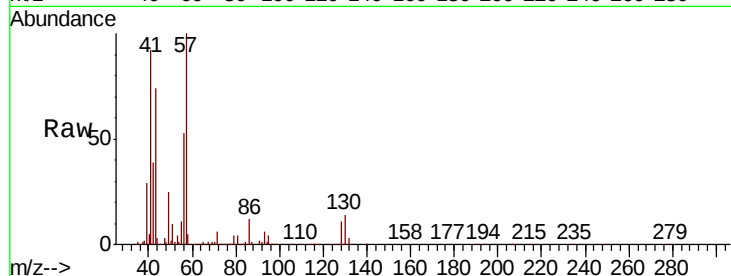


#25
Ethyl Acetate
Concen: 4.873 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1723608

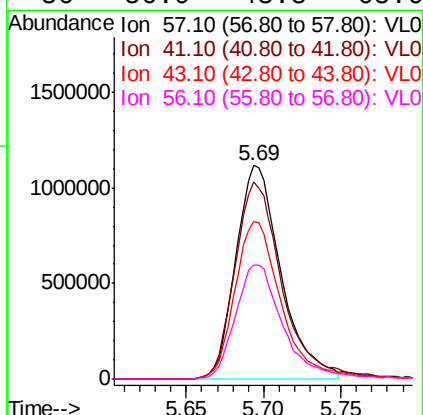
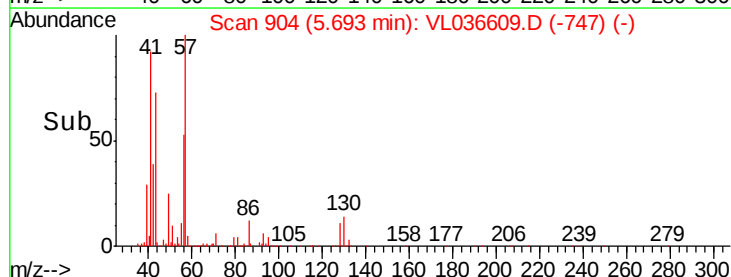
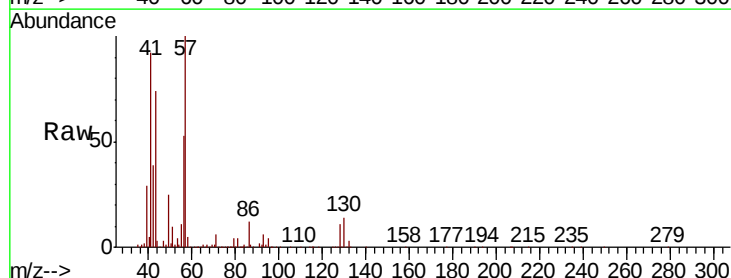
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.9	11.9#
61	0.3	7.4	11.2#
70	1.5	5.1	7.7#

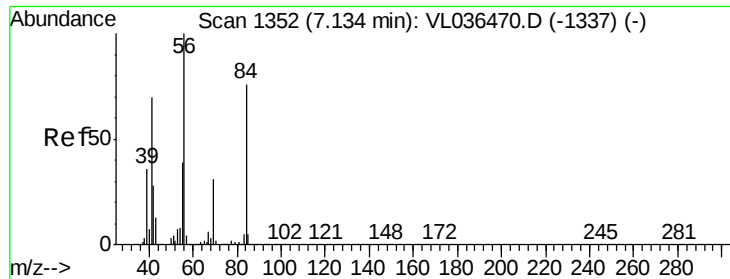


#26
Hexane
Concen: 13.766 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion: 57 Resp: 2259585

Ion	Ratio	Lower	Upper
57	100		
41	98.0	77.2	115.8
43	76.6	173.8	260.6#
56	56.9	43.8	65.6

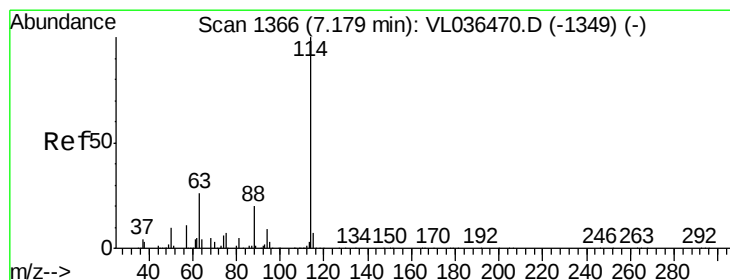
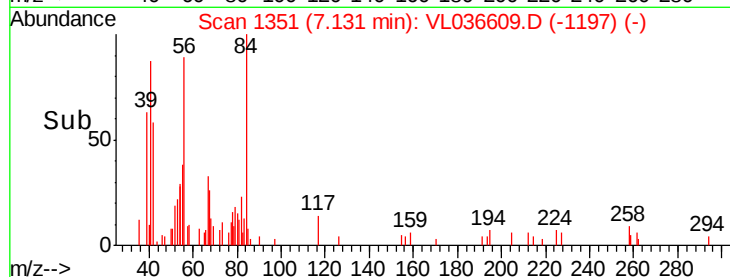
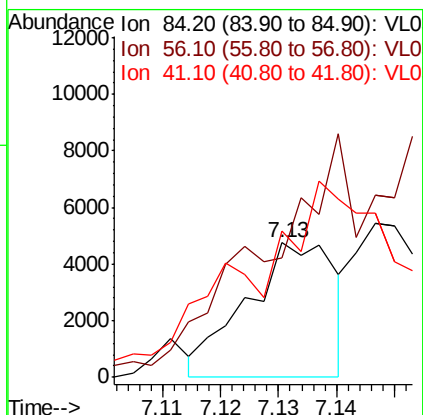
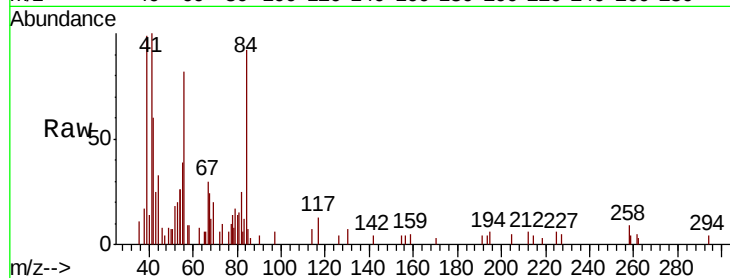




#30
Cvclohexane
Concen: 0.038 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

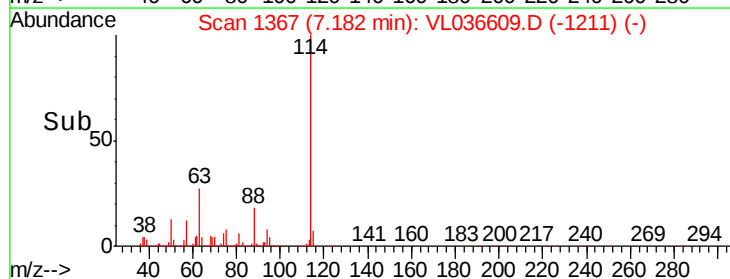
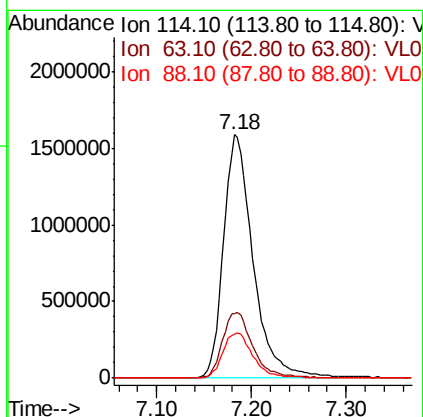
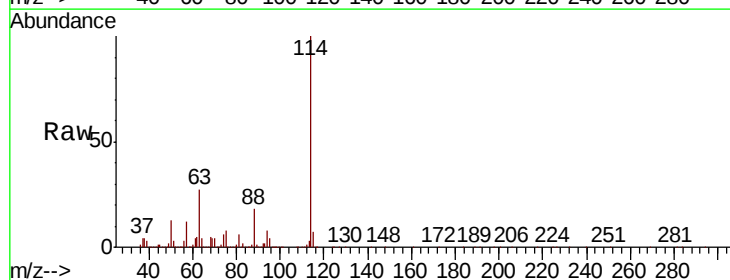
Instrument :
MSVOA_L
ClientSampled :

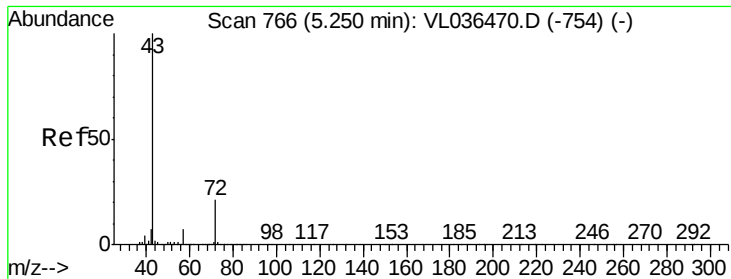
Tot Ion: 84 Resp: 5033
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 346.0 75.3 112.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion: 114 Resp: 3455585
Ion Ratio Lower Upper
114 100
63 28.0 22.4 33.6
88 19.3 15.4 23.0

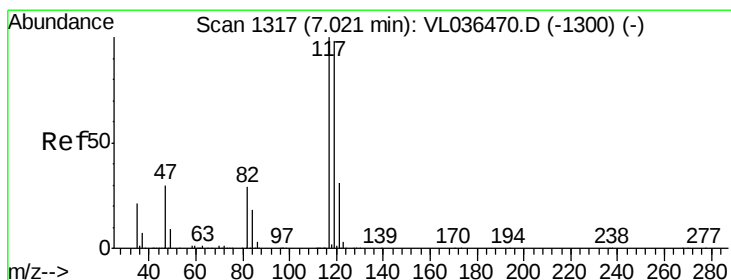
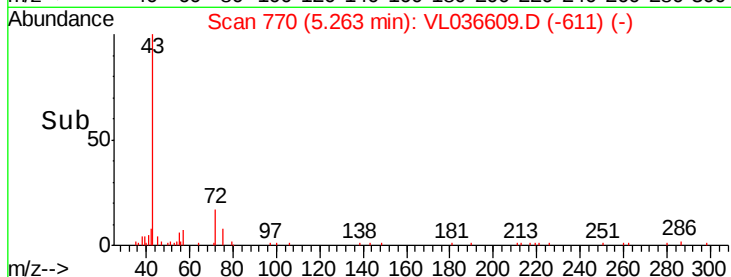
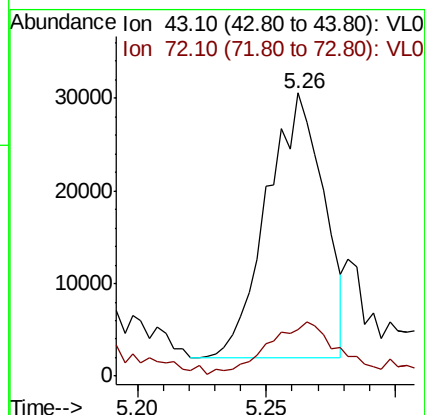
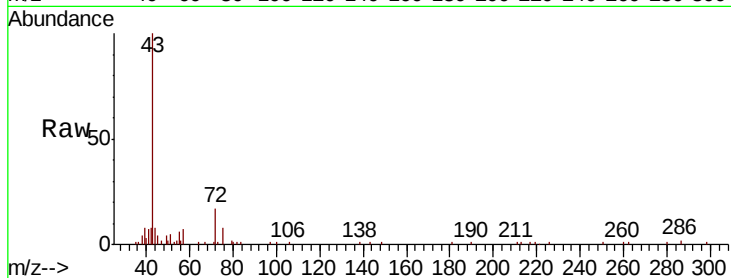




#34
2-Butanone
Concen: 0.261 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

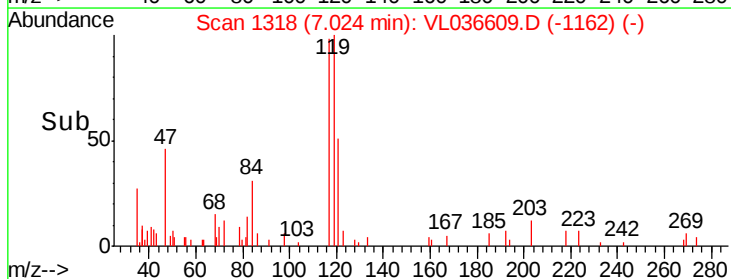
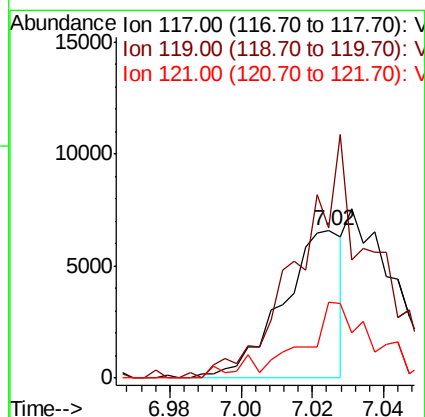
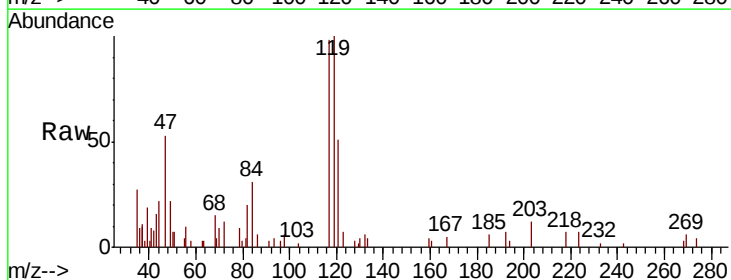
Instrument :
MSVOA_L
ClientSampleId :

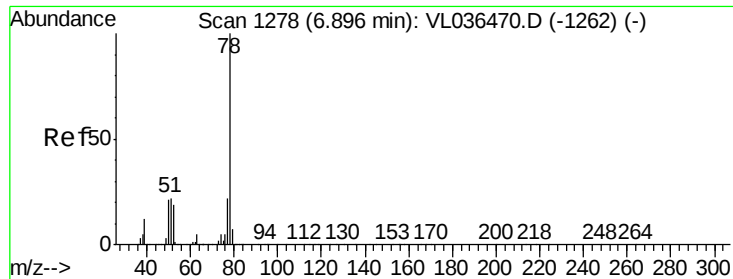
Tot Ion: 43 Resp: 43950
Ion Ratio Lower Upper
43 100
72 30.5 17.0 25.6#



#35
Carbon Tetrachloride
Concen: 0.029 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion: 117 Resp: 7596
Ion Ratio Lower Upper
117 100
119 98.6 78.2 117.2
121 51.7 24.5 36.7#

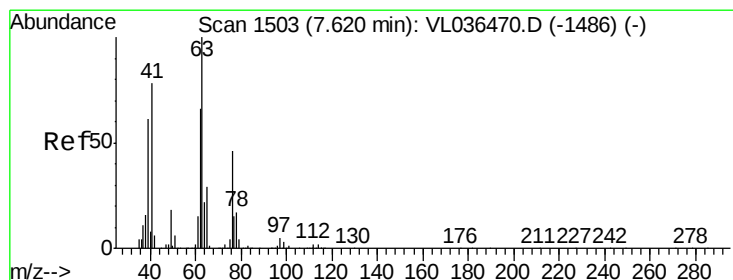
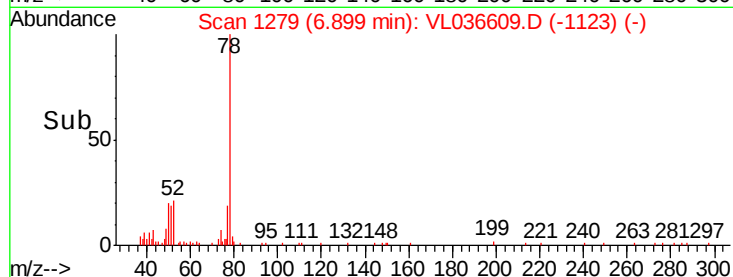
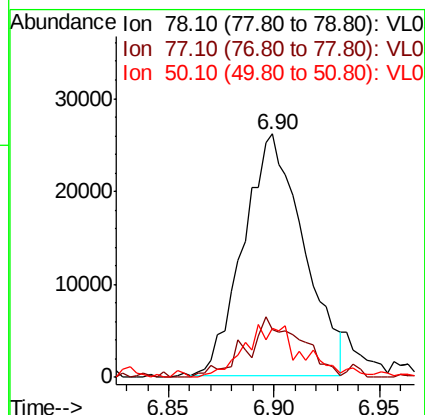
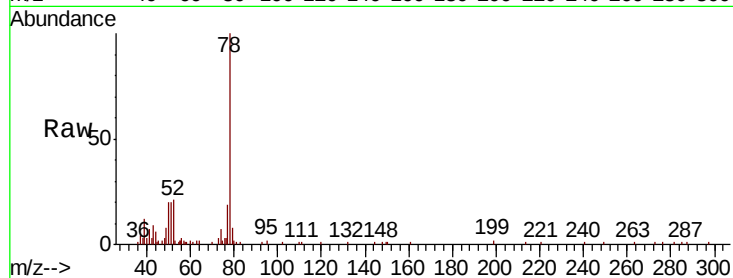




#36
Benzene
Concen: 0.162 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.00 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

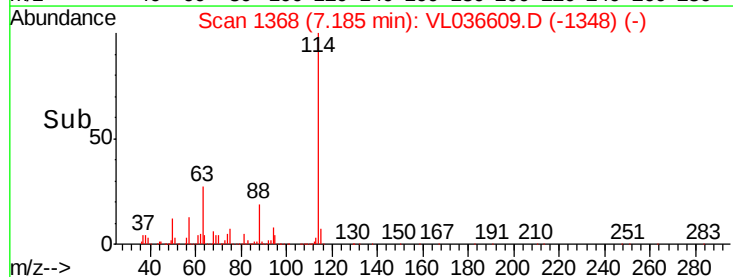
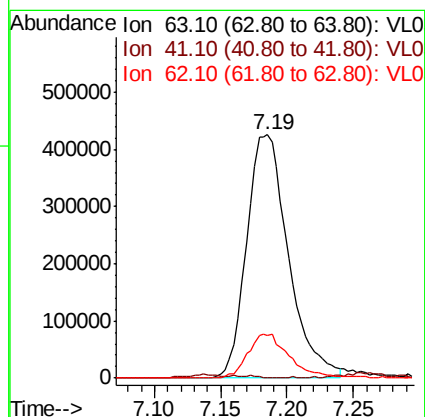
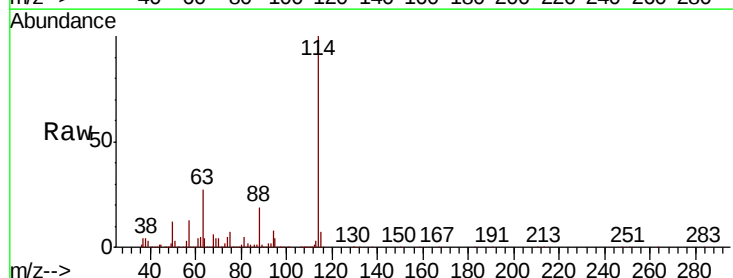
Instrument :
MSVOA_L
ClientSampleId :

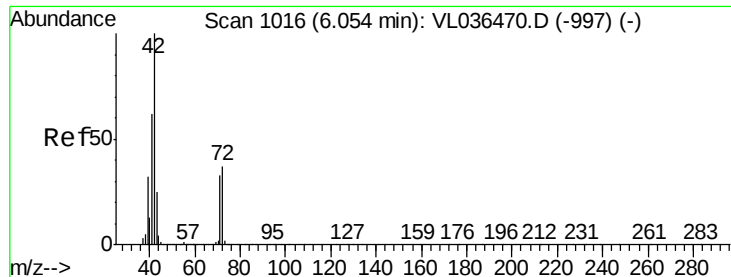
Tot Ion: 78 Resp: 51600
Ion Ratio Lower Upper
78 100
77 19.6 18.0 27.0
50 20.5 16.5 24.7



#39
1,2-Dichloropropane
Concen: 7.236 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.43 min
Lab File: VL036609.D
Acq: 31 Mar 2021 19:48

Tgt Ion: 63 Resp: 935494
Ion Ratio Lower Upper
63 100
41 0.0 62.4 93.6#
62 17.3 52.8 79.2#





#41

Tetrahydrofuran

Concen: 0.171 ppbv

RT: 5.75 min Scan# 923

Delta R.T. -0.30 min

Lab File: VL036609.D

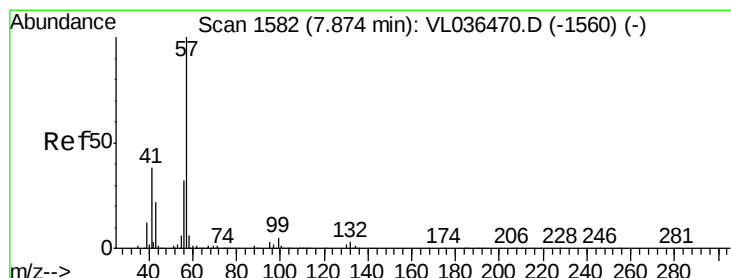
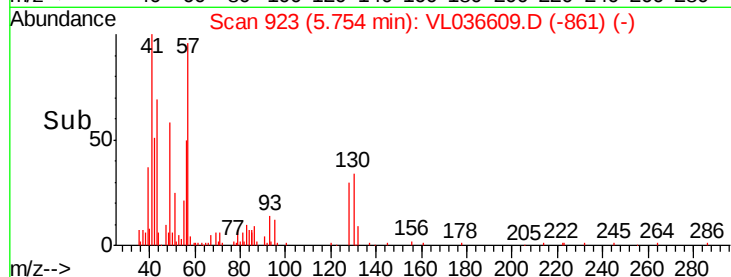
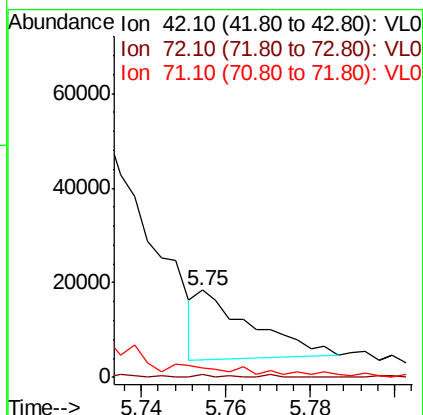
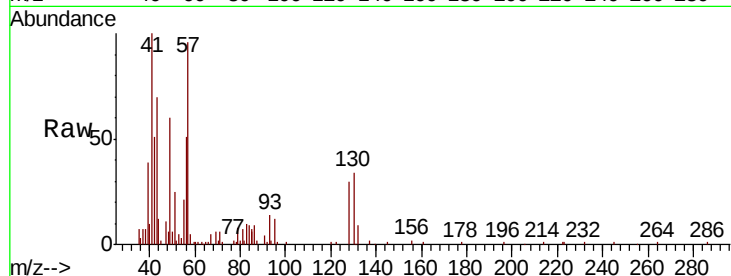
Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	42	Resp:	13271
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.6	41.4#
71	0.0	27.0	40.4#



#44

2,2,4-Trimethylpentane

Concen: 0.093 ppbv

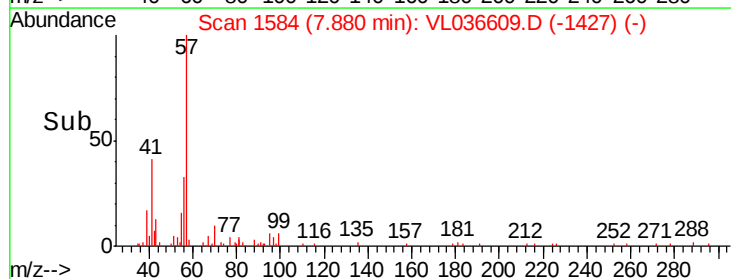
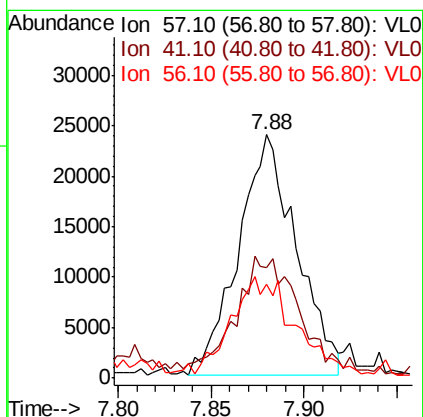
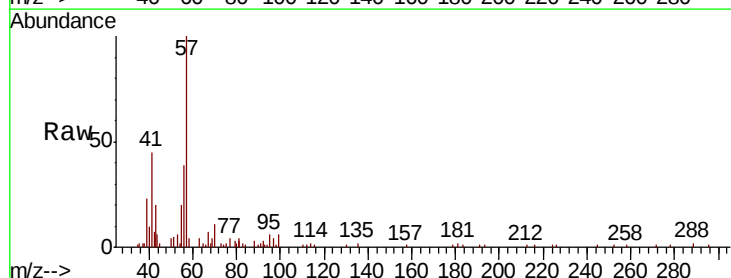
RT: 7.88 min Scan# 1584

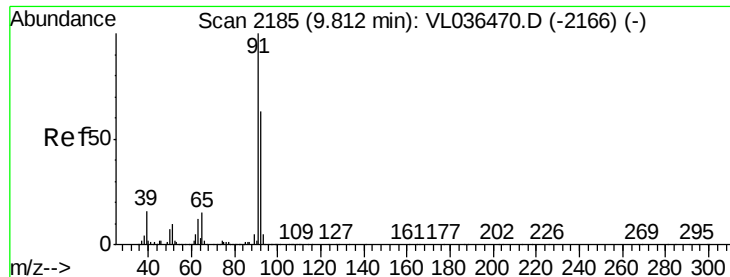
Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Tgt Ion:	57	Resp:	52091
Ion	Ratio	Lower	Upper
57	100		
41	53.8	28.8	43.2#
56	49.0	26.1	39.1#





#53

Toluene

Concen: 0.627 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

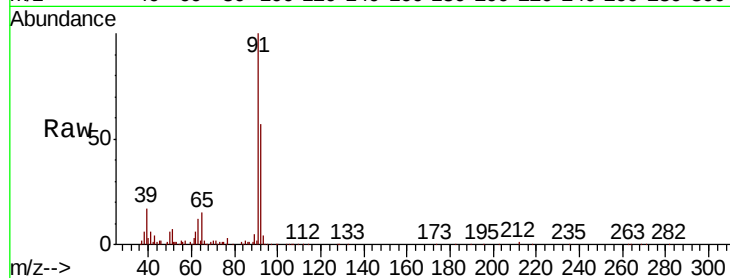
ClientSampleId :

Tot Ion: 91 Resp: 212810

Ion Ratio Lower Upper

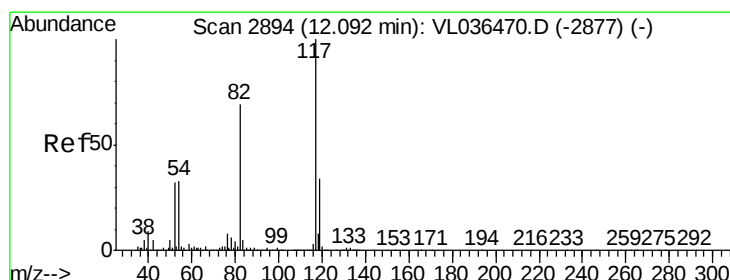
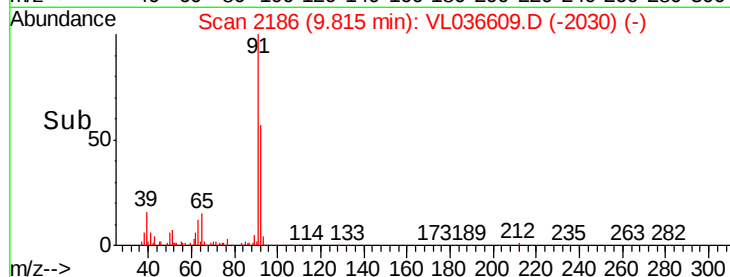
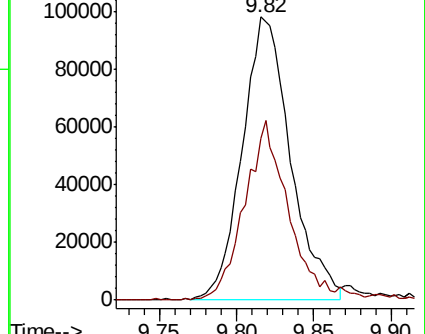
91 100

92 59.8 48.8 73.2



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# 2896

Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

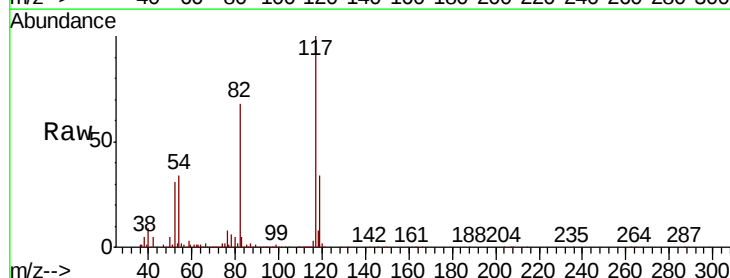
Tgt Ion: 117 Resp: 3055154

Ion Ratio Lower Upper

117 100

82 70.6 57.4 86.0

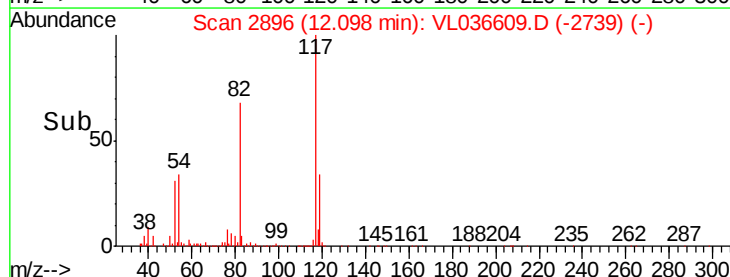
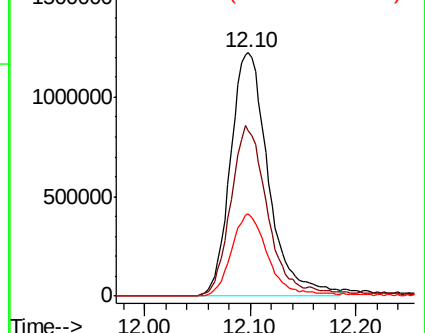
119 32.9 47.4 71.0#

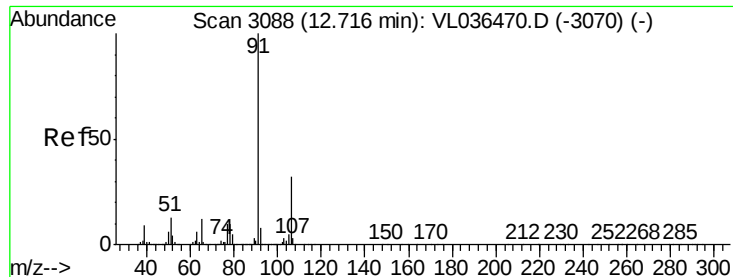


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.020 ppbv

RT: 12.72 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

Instrument :

MSVOA_L

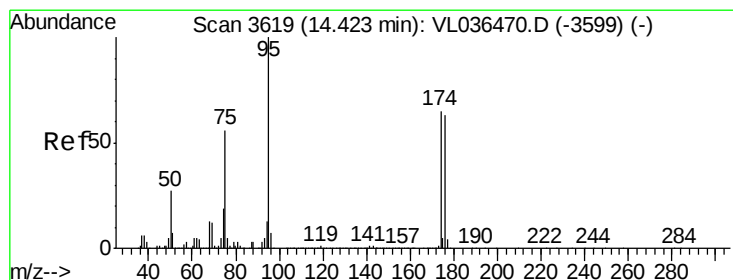
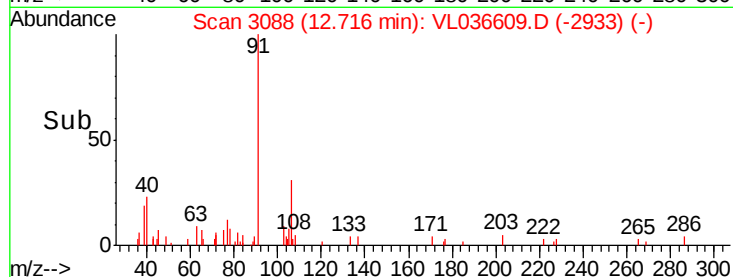
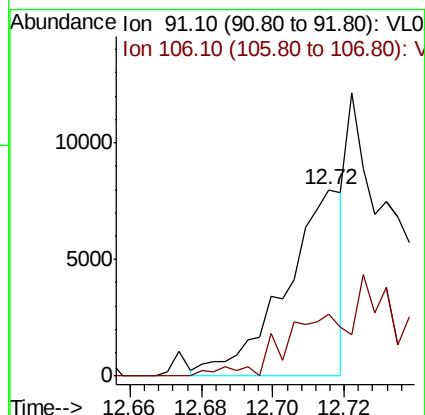
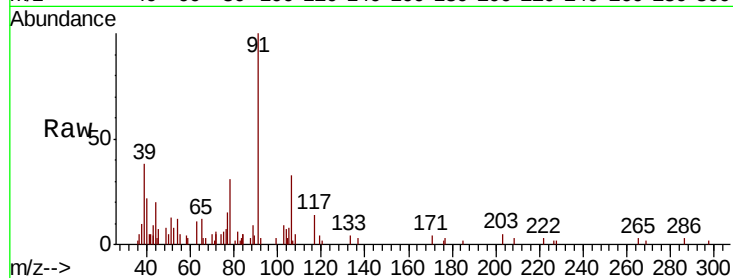
ClientSampled :

Tot Ion: 91 Resp: 8911

Ion Ratio Lower Upper

91 100

106 34.5 25.3 37.9



#68

1-Bromo-4-Fluorobenzene

Concen: 9.216 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.01 min

Lab File: VL036609.D

Acq: 31 Mar 2021 19:48

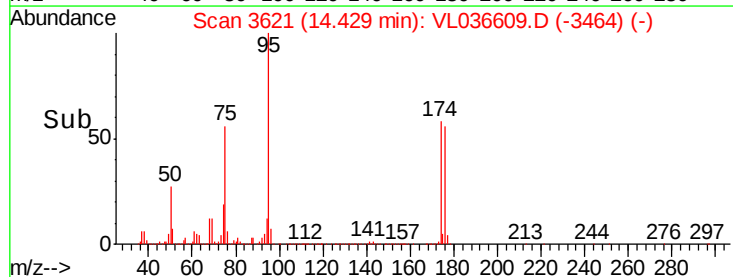
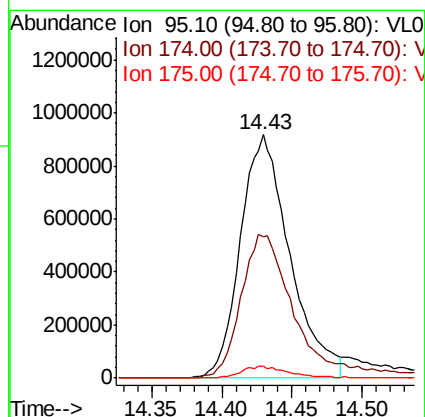
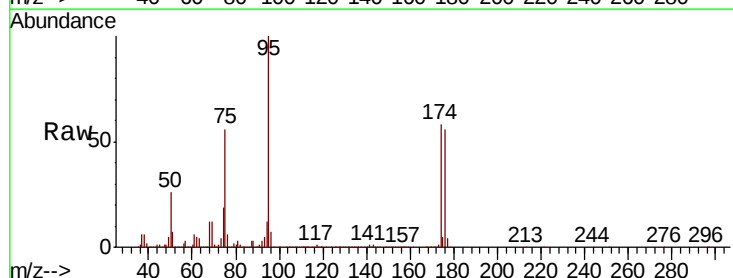
Tgt Ion: 95 Resp: 2244106

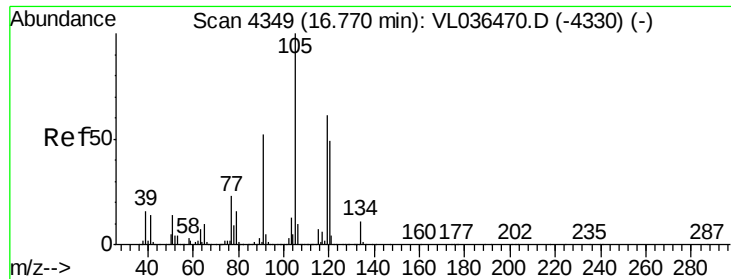
Ion Ratio Lower Upper

95 100

174 67.7 51.0 76.6

175 5.0 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.020 ppbv
 RT: 16.78 min Scan# 4353
 Delta R.T. 0.01 min
 Lab File: VL036609.D
 Acq: 31 Mar 2021 19:48

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	8216
Ion	Ratio	Lower	Upper
105	100		
120	25.5	39.2	58.8#
91	0.0	42.6	64.0#
77	0.0	18.6	28.0#

