

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040521\
 Data File : VL036685.D
 Acq On : 5 Apr 2021 23:11
 Operator : SY/AP
 Sample : M1945-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 06 02:01:35 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	1281859	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3217410	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3005108	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2364898	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

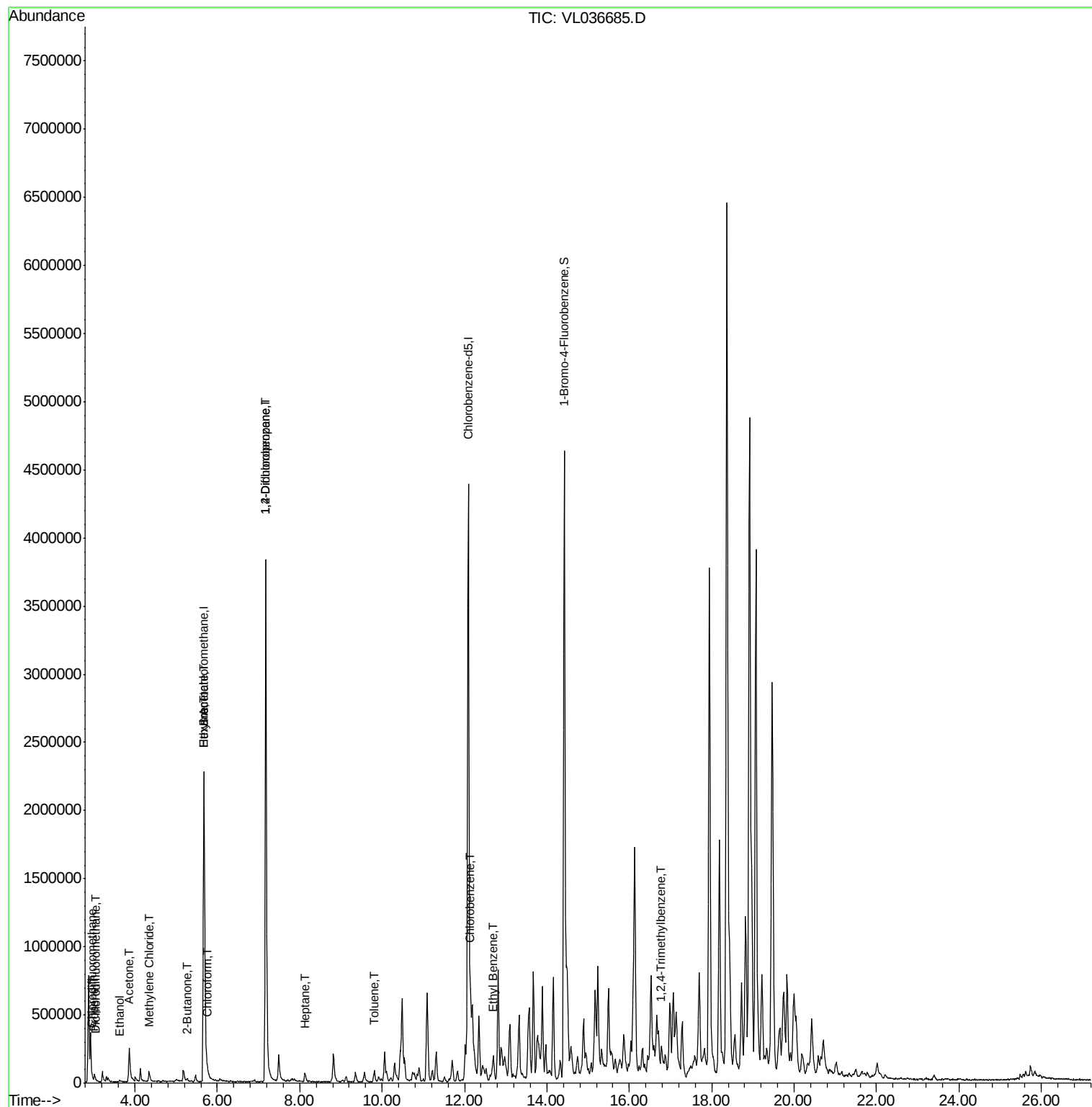
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	10727	0.051 ppbv	99
3) Chlorodifluoromethane	2.96	51	29524	0.123 ppbv #	67
9) Propene	3.00	41	2401	0.031 ppbv #	14
10) Heptane	8.12	43	6998	0.036 ppbv #	1
13) Ethanol	3.61	45	2245	0.247 ppbv #	34
15) Acetone	3.86	43	387814	3.074 ppbv	94
20) Methylene Chloride	4.35	84	30301	0.513 ppbv #	86
25) Ethyl Acetate	5.69	43	214114	0.714 ppbv #	77
26) Hexane	5.69	57	289822	2.082 ppbv #	48
29) Chloroform	5.75	83	20758	0.093 ppbv	92
34) 2-Butanone	5.27	43	15430	0.098 ppbv #	52
39) 1,2-Dichloropropane	7.17	63	827059	6.871 ppbv #	23
53) Toluene	9.81	91	67015	0.212 ppbv	95
57) Chlorobenzene	12.15	112	12878	0.050 ppbv #	25
58) Ethyl Benzene	12.71	91	20361	0.047 ppbv	94
74) 1,2,4-Trimethylbenzene	16.76	105	20216	0.050 ppbv #	58

(#) = 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# 896

Delta R.T. -0.00 min

Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

Instrument :

MSVOA_L

ClientSampleId :

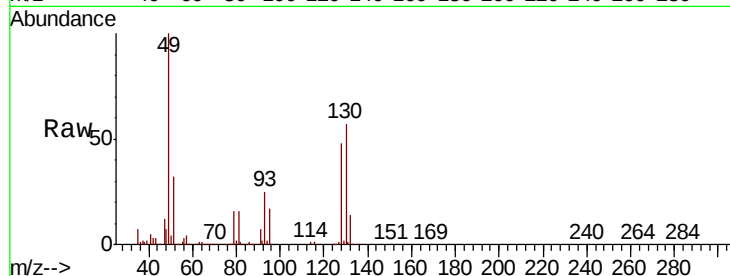
Tot Ion: 49 Resp: 1281859

Ion Ratio Lower Upper

49 100

128 48.2 23.5 70.6

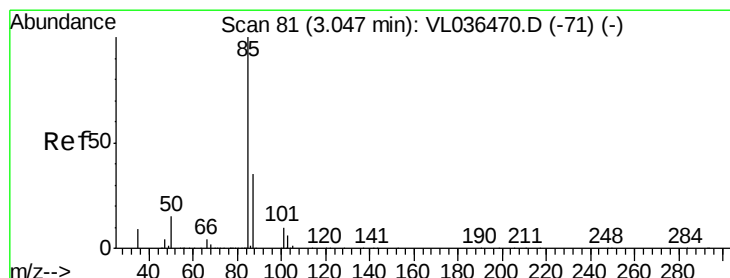
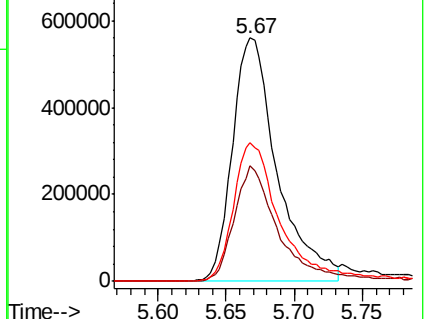
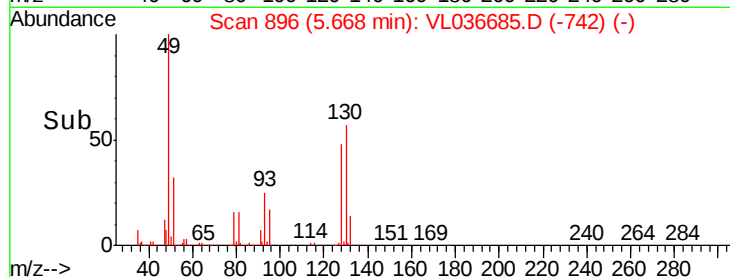
130 61.1 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.051 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL036685.D

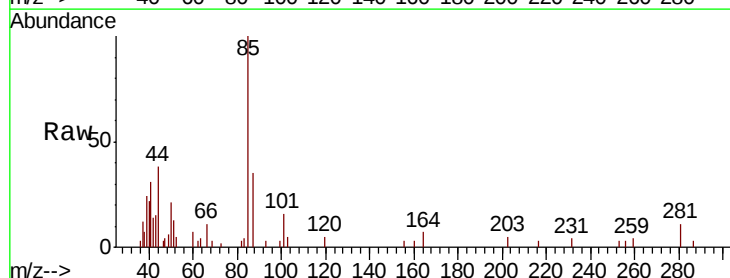
Acq: 5 Apr 2021 23:11

Tgt Ion: 85 Resp: 10727

Ion Ratio Lower Upper

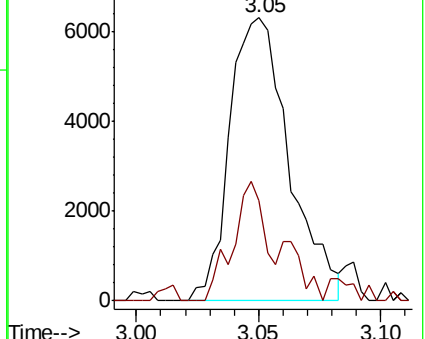
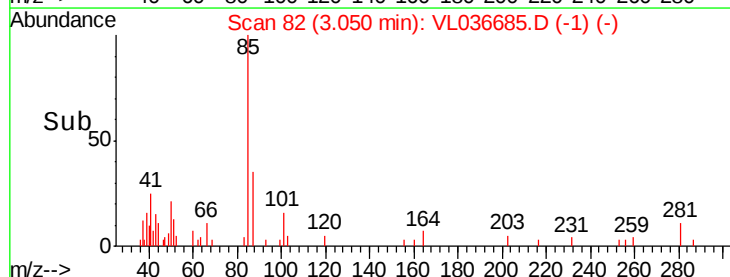
85 100

87 35.3 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: 0.123 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

Instrument :

MSVOA_L

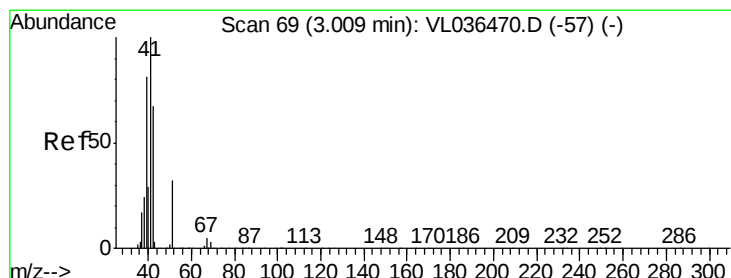
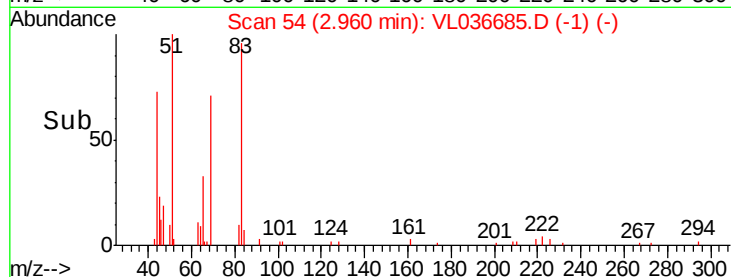
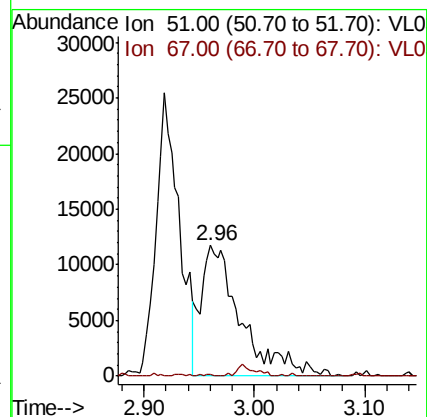
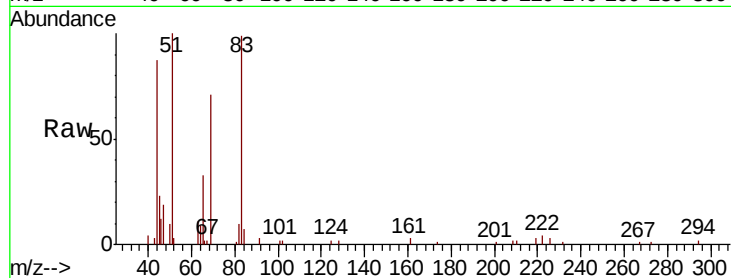
ClientSampleId :

Tot Ion: 51 Resp: 29524

Ion Ratio Lower Upper

51 100

67 3.9 14.7 22.1#



#9

Propene

Concen: 0.031 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036685.D

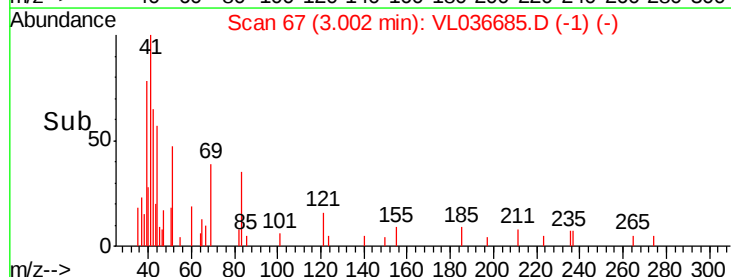
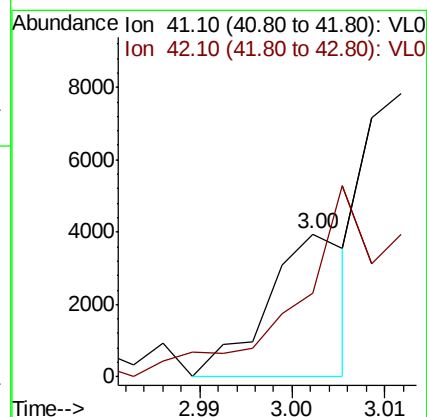
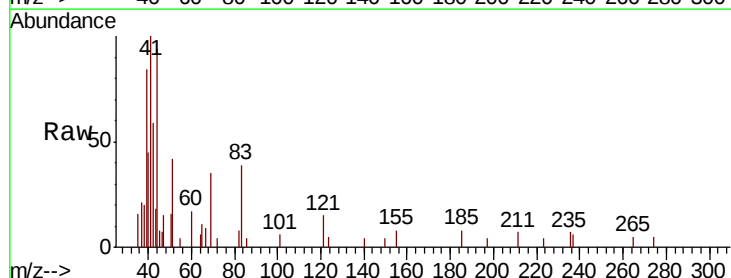
Acq: 5 Apr 2021 23:11

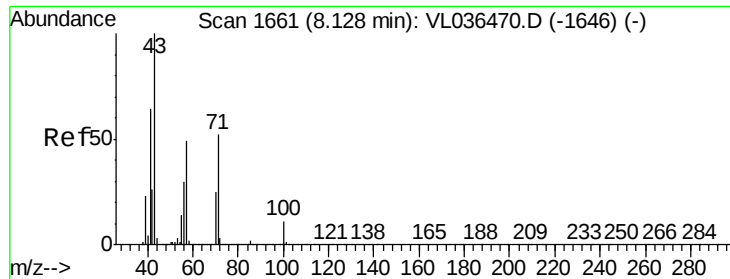
Tgt Ion: 41 Resp: 2401

Ion Ratio Lower Upper

41 100

42 0.0 57.0 85.4#

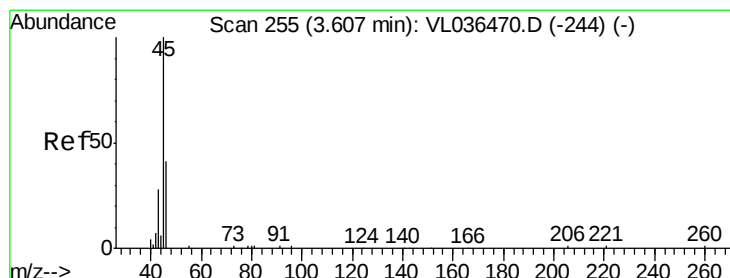
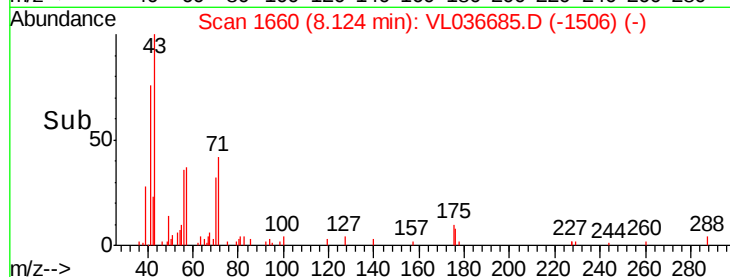
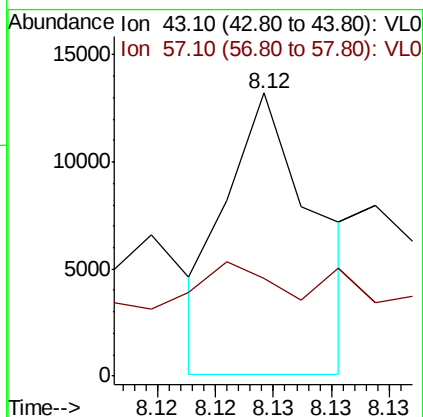
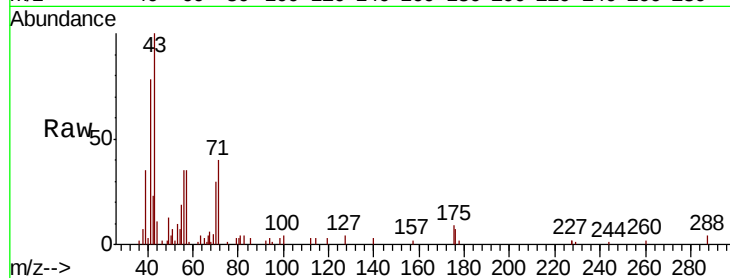




#10
Heptane
Concen: 0.036 ppbv
RT: 8.12 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

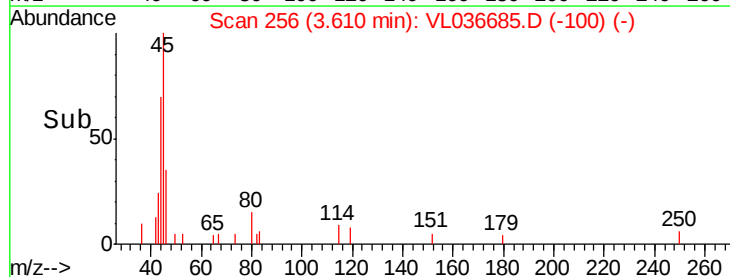
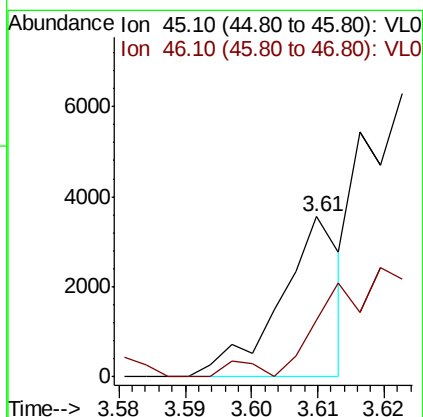
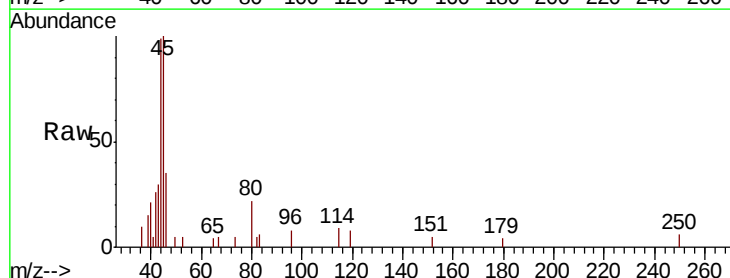
Instrument :
MSVOA_L
ClientSampled :

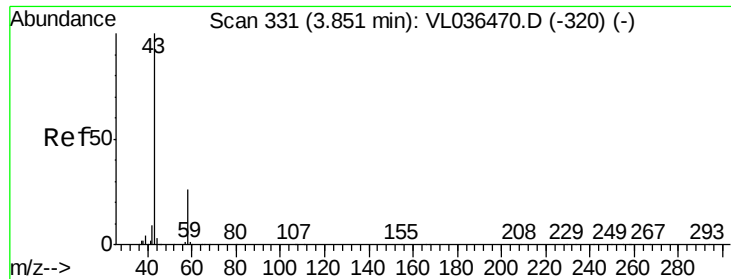
Tot Ion: 43 Resp: 6998
Ion Ratio Lower Upper
43 100
57 177.8 39.0 58.6#



#13
Ethanol
Concen: 0.247 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

Tgt Ion: 45 Resp: 2245
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#

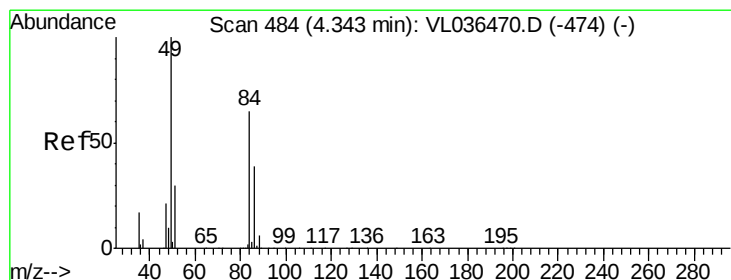
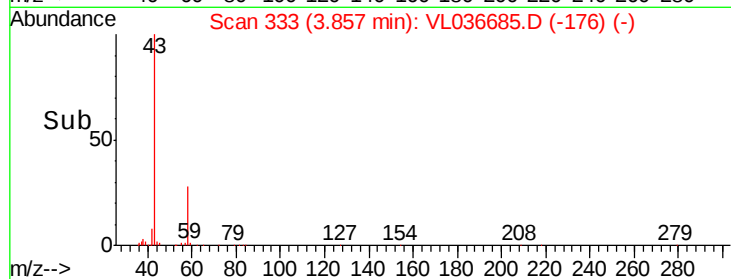
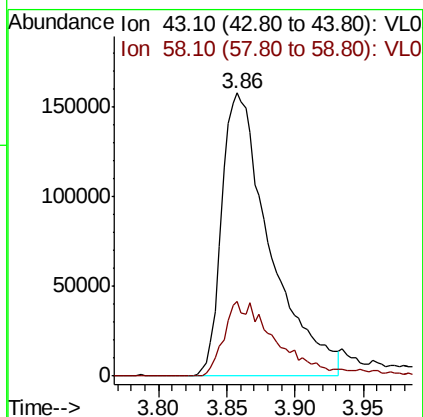
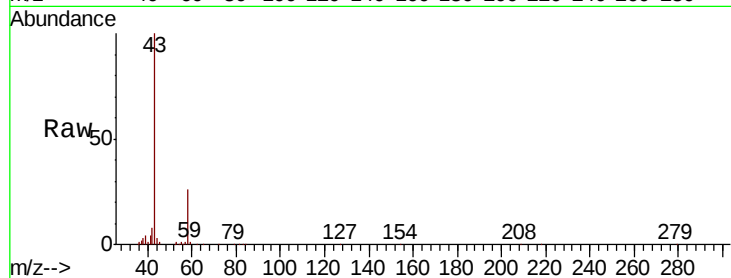




#15
Acetone
Concen: 3.074 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

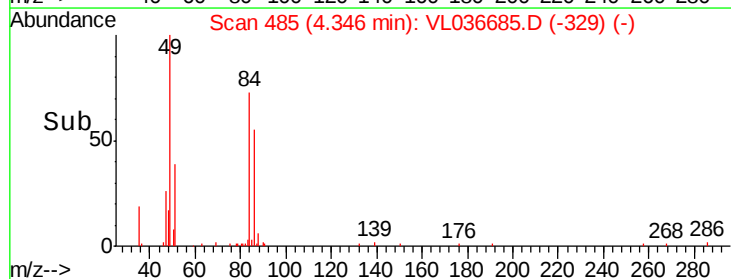
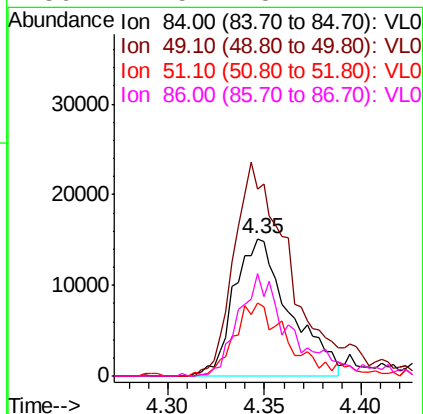
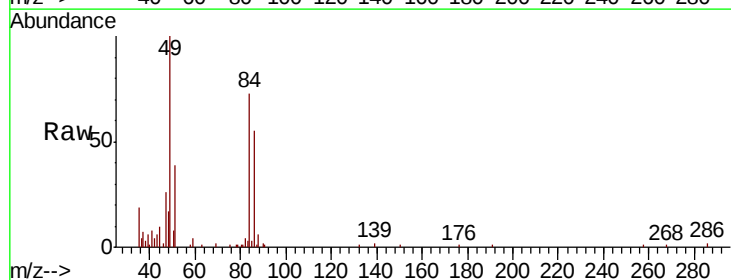
Instrument :
MSVOA_L
ClientSampleId :

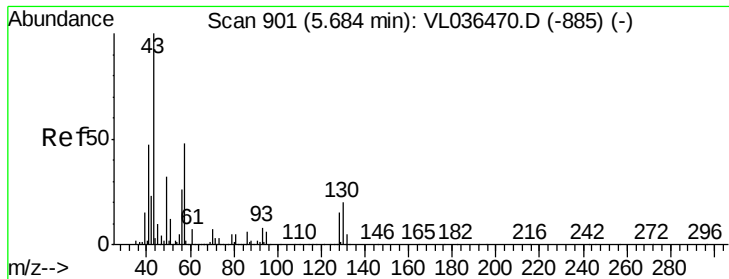
Tot Ion: 43 Resp: 387814
Ion Ratio Lower Upper
43 100
58 29.7 21.2 31.8



#20
Methylene Chloride
Concen: 0.513 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

Tgt Ion: 84 Resp: 30301
Ion Ratio Lower Upper
84 100
49 136.5 122.9 184.3
51 53.3 36.9 55.3
86 74.5 48.2 72.4#





#25

Ethyl Acetate

Concen: 0.714 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

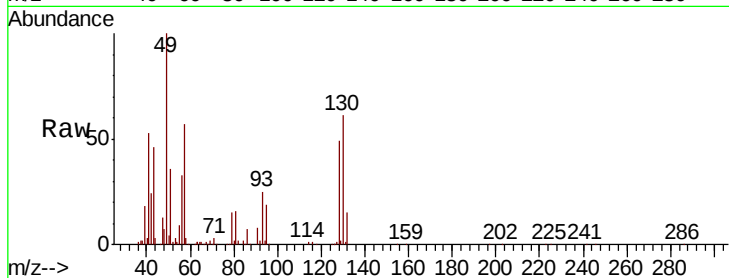
Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 214114

Ion	Ratio	Lower	Upper
43	100		
45	0.1	7.9	11.9#
61	0.3	7.4	11.2#
70	1.5	5.1	7.7#



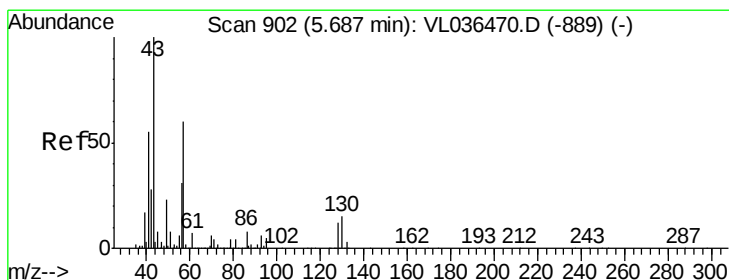
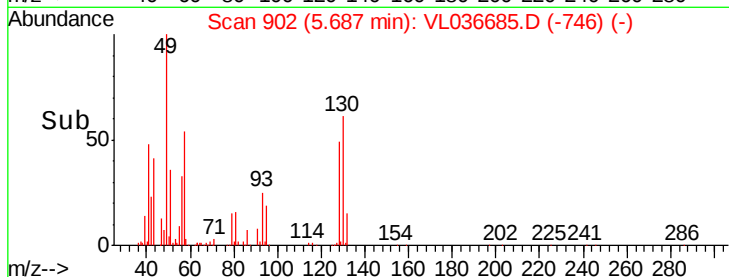
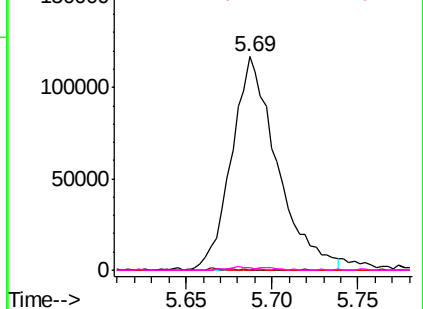
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 2.082 ppbv

RT: 5.69 min Scan# 902

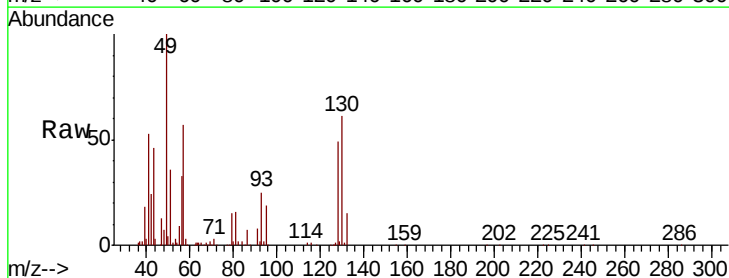
Delta R.T. -0.00 min

Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

Tgt Ion: 57 Resp: 289822

Ion	Ratio	Lower	Upper
57	100		
41	98.4	77.2	115.8
43	78.5	173.8	260.6#
56	57.7	43.8	65.6



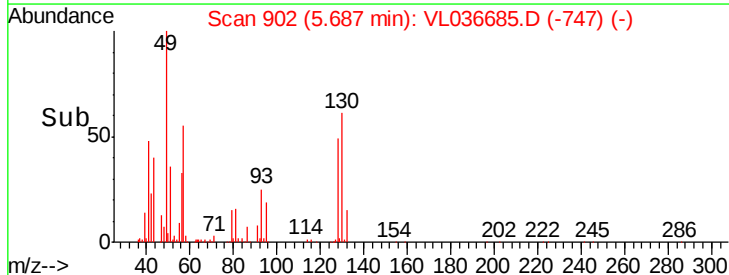
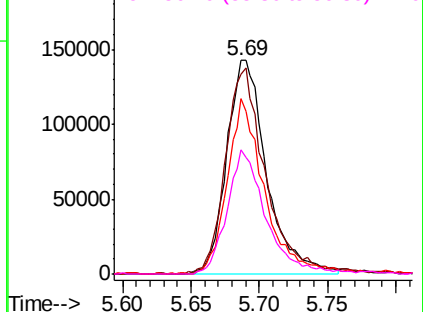
Abundance

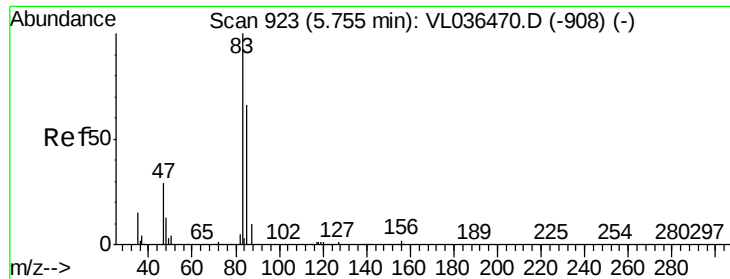
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#29

Chloroform

Concen: 0.093 ppbv

RT: 5.75 min Scan# 923

Delta R.T. -0.00 min

Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

Instrument :

MSVOA_L

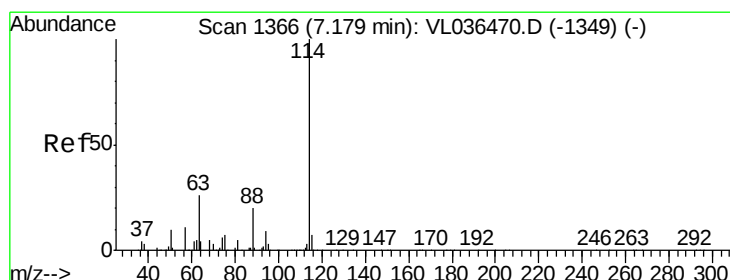
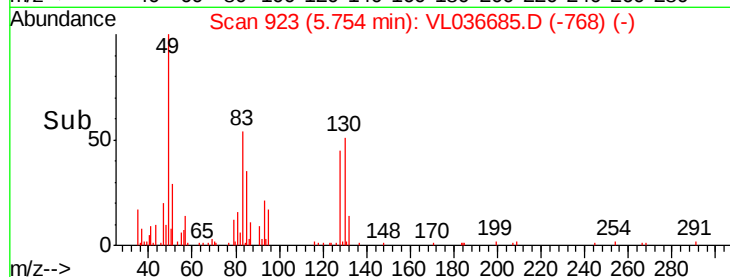
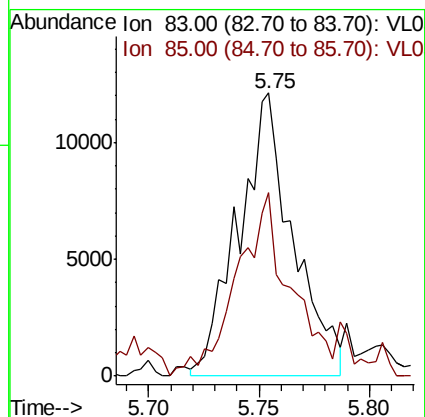
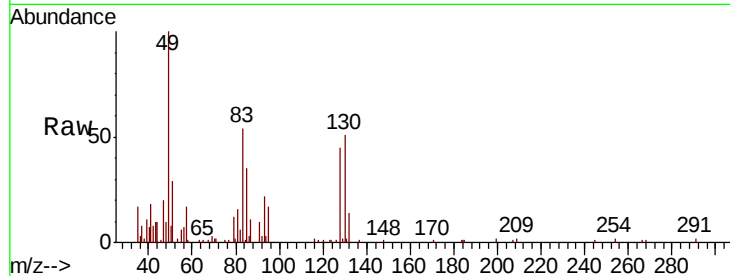
ClientSampleId :

Tot Ion: 83 Resp: 20758

Ion Ratio Lower Upper

83 100

85 59.5 52.6 78.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

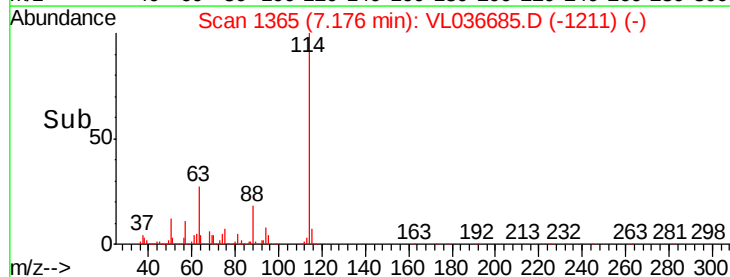
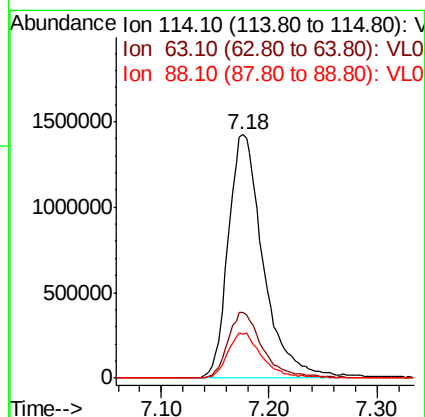
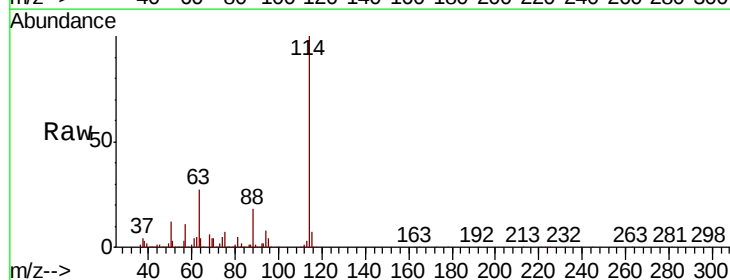
Tgt Ion: 114 Resp: 3217410

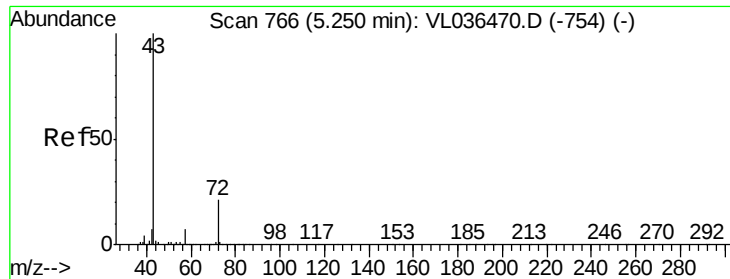
Ion Ratio Lower Upper

114 100

63 27.2 22.4 33.6

88 18.6 15.4 23.0

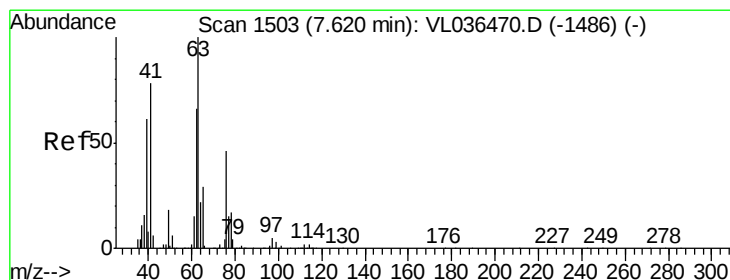
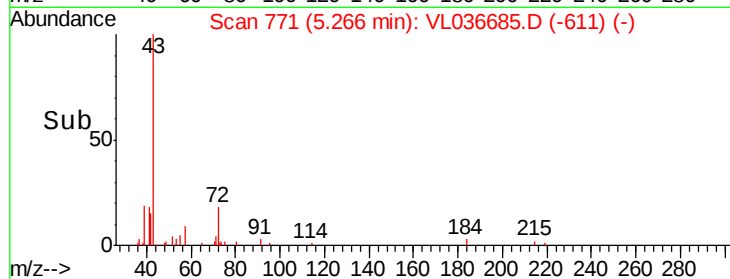
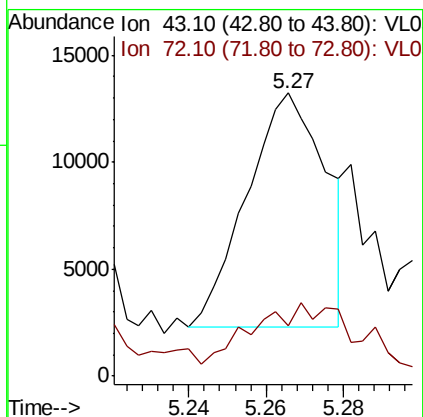
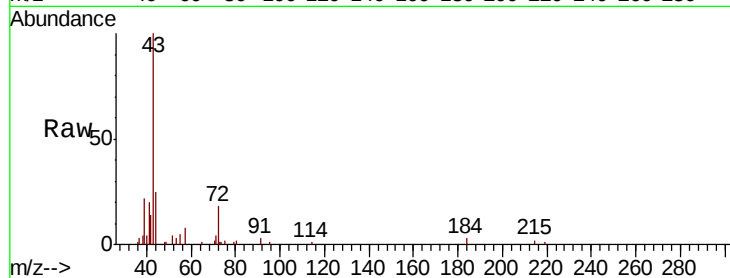




#34
2-Butanone
Concen: 0.098 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.02 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

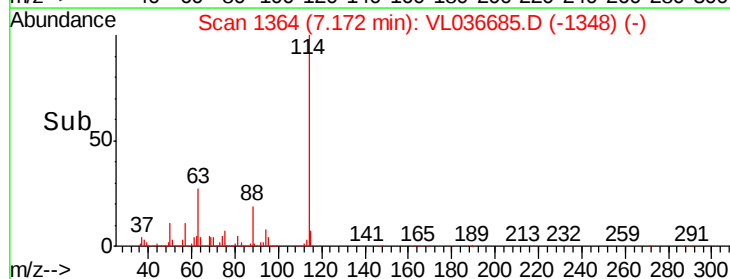
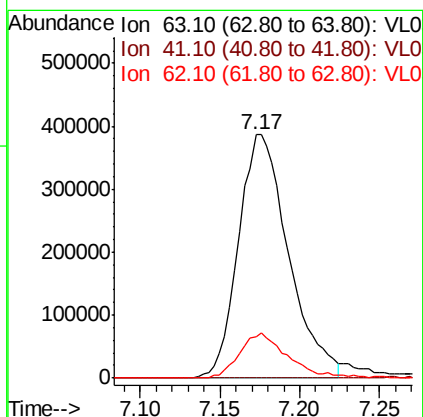
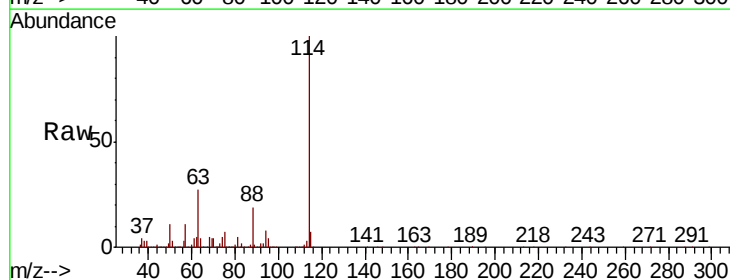
Instrument :
MSVOA_L
ClientSampleId :

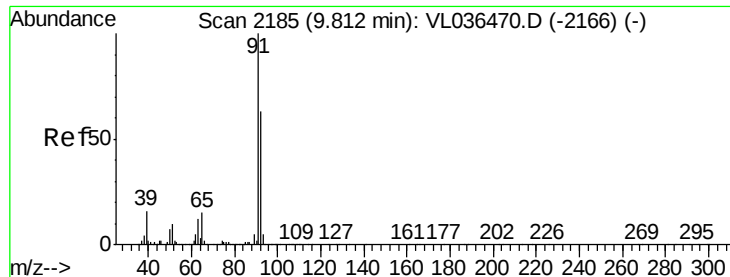
Tot Ion: 43 Resp: 15430
Ion Ratio Lower Upper
43 100
72 44.1 17.0 25.6#



#39
1,2-Dichloropropane
Concen: 6.871 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.45 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

Tgt Ion: 63 Resp: 827059
Ion Ratio Lower Upper
63 100
41 0.0 62.4 93.6#
62 17.1 52.8 79.2#





#53

Toluene

Concen: 0.212 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

Instrument :

MSVOA_L

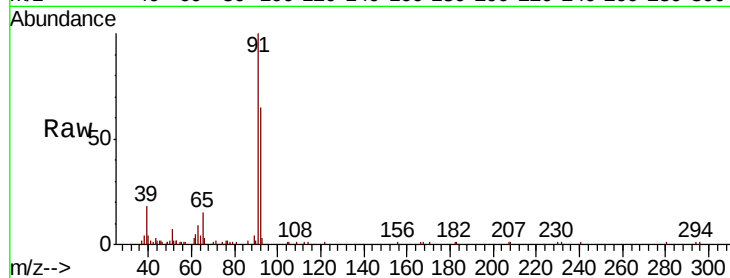
ClientSampleId :

Tot Ion: 91 Resp: 67015

Ion Ratio Lower Upper

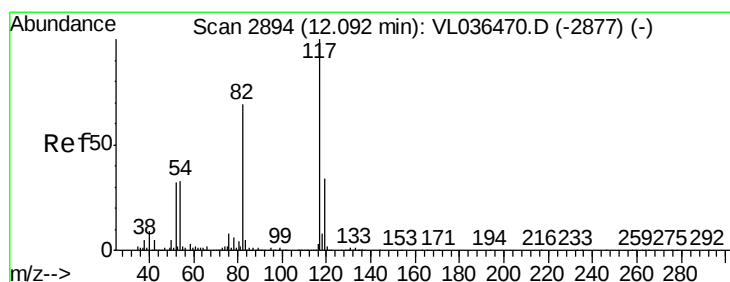
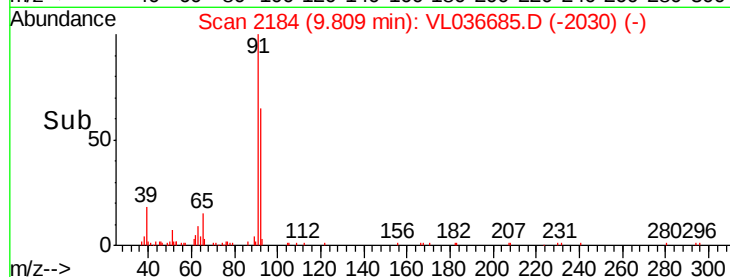
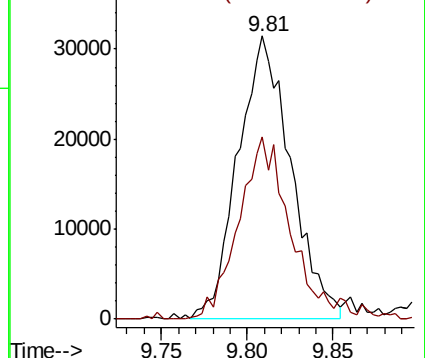
91 100

92 64.9 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: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL036685.D

Acq: 5 Apr 2021 23:11

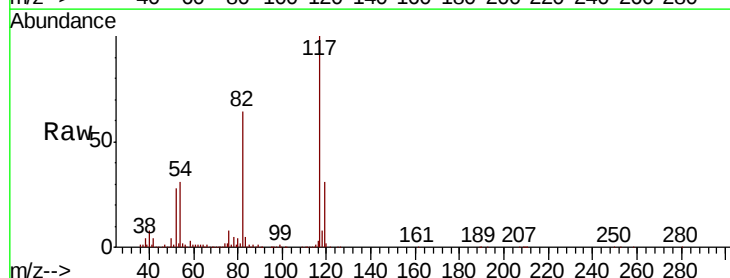
Tgt Ion: 117 Resp: 3005108

Ion Ratio Lower Upper

117 100

82 66.7 57.4 86.0

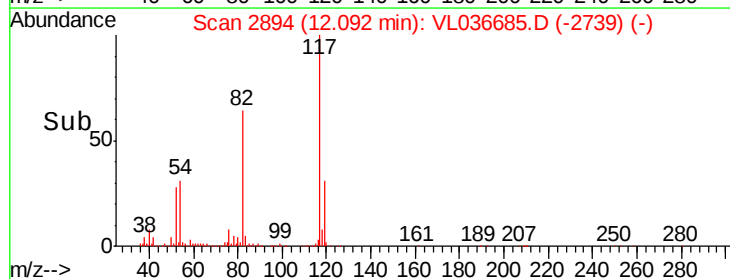
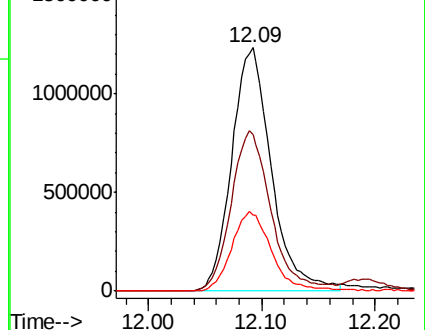
119 33.2 47.4 71.0#

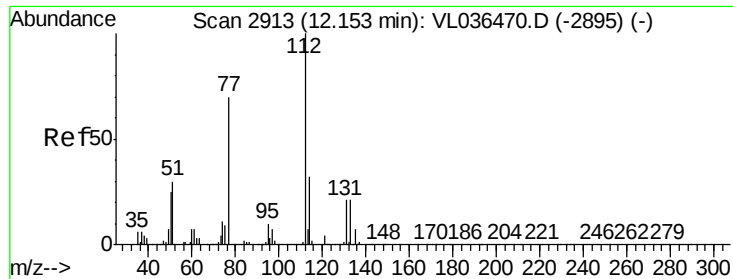


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

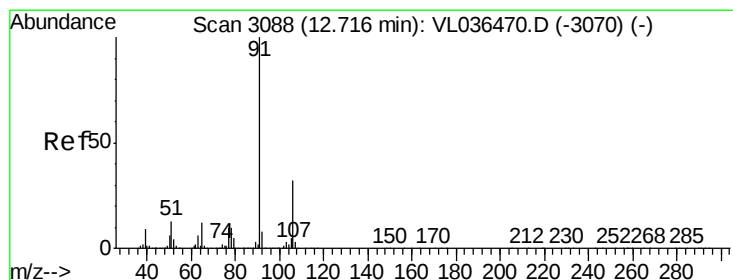
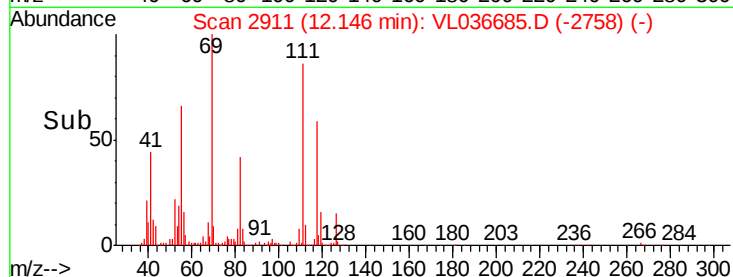
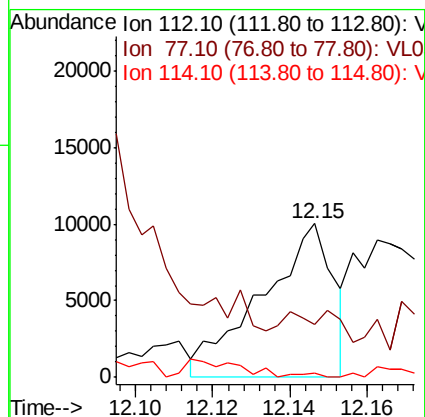
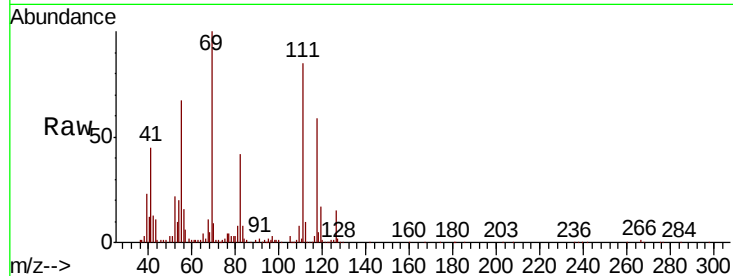




#57
Chlorobenzene
Concen: 0.050 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

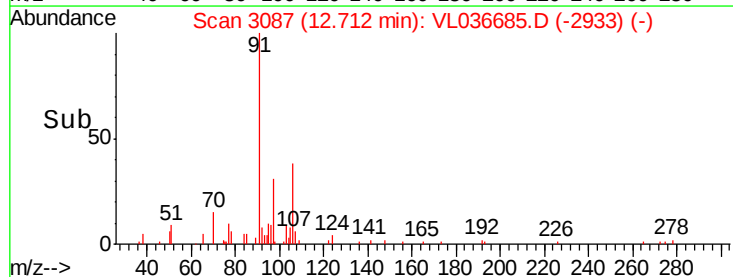
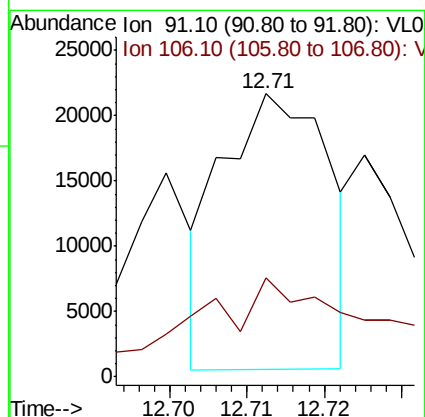
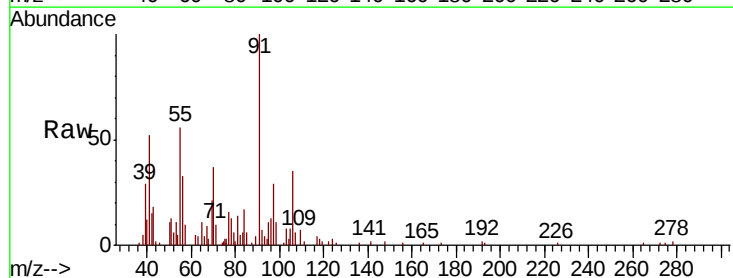
Instrument :
MSVOA_L
ClientSampleId :

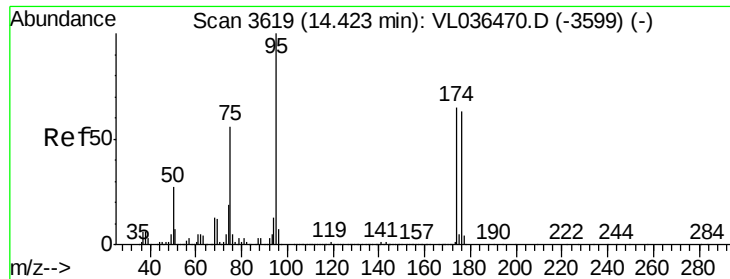
Tot Ion: 112 Resp: 12878
Ion Ratio Lower Upper
112 100
77 0.0 56.0 84.0#
114 3.0 29.0 35.4#



#58
Ethyl Benzene
Concen: 0.047 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL036685.D
Acq: 5 Apr 2021 23:11

Tgt Ion: 91 Resp: 20361
Ion Ratio Lower Upper
91 100
106 28.2 25.3 37.9

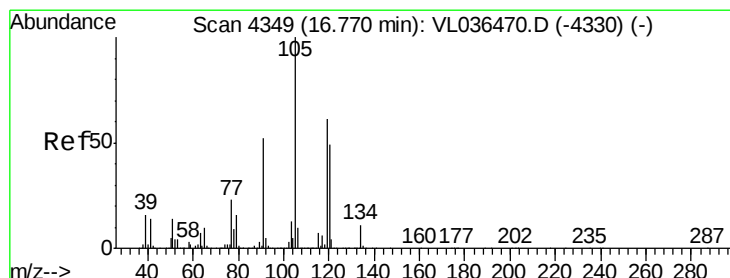
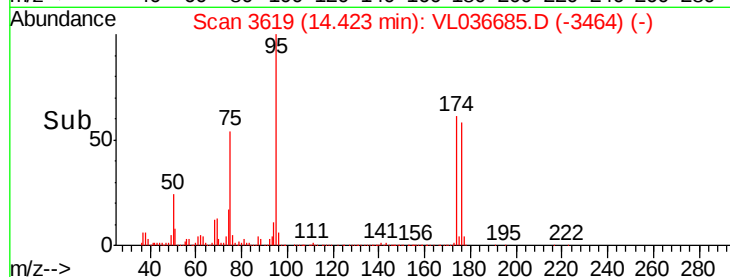
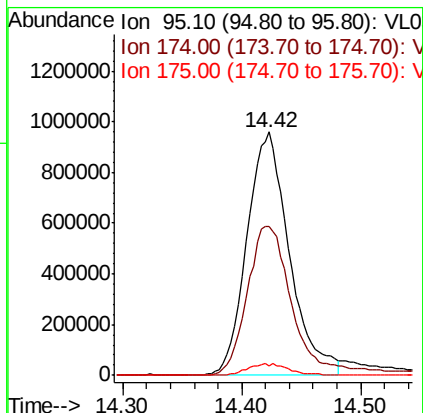
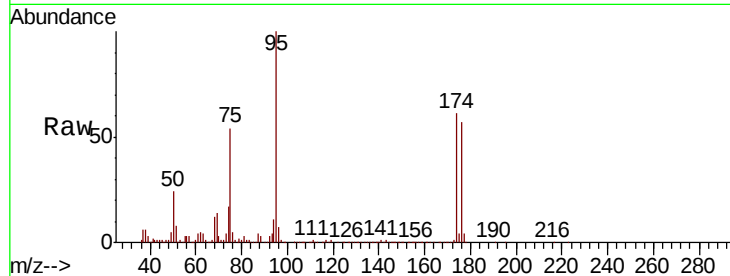




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.874 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL036685.D
 Acq: 5 Apr 2021 23:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2364898
 Ion Ratio Lower Upper
 95 100
 174 68.4 51.0 76.6
 175 4.9 3.9 5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.050 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL036685.D
 Acq: 5 Apr 2021 23:11

Tgt Ion:105 Resp: 20216
 Ion Ratio Lower Upper
 105 100
 120 33.5 39.2 58.8#
 91 5.4 42.6 64.0#
 77 11.4 18.6 28.0#

