

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036883.D
 Acq On : 28 Apr 2021 17:21
 Operator : SY/AP
 Sample : M2201-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 29 03:10:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1451360	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3344118	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3012293	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2284531	9.45	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

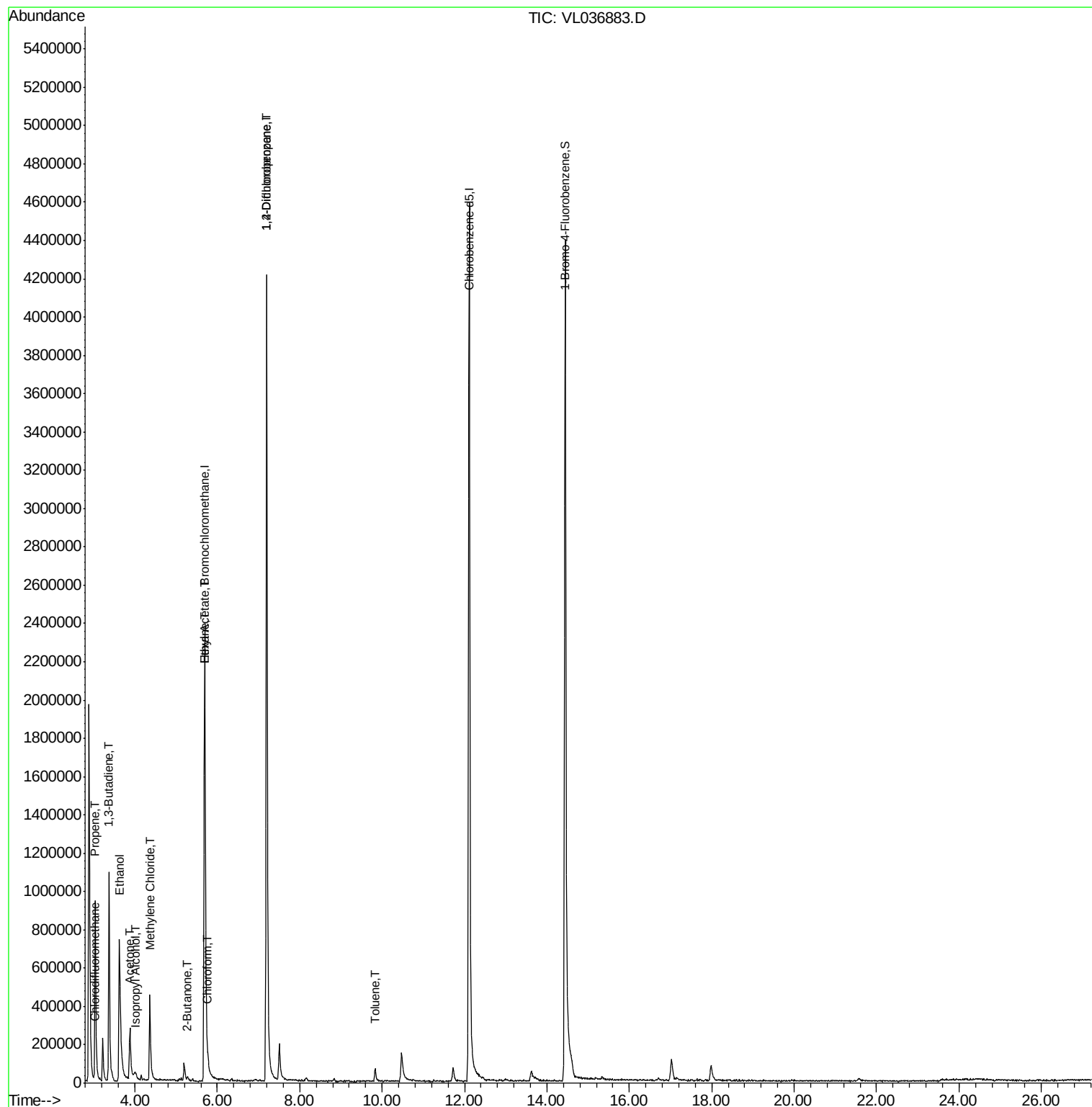
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	13208	0.050	ppbv	96
9) Propene	3.03	41	242574	3.011	ppbv #	66
13) Ethanol	3.62	45	1242481	120.941	ppbv	92
15) Acetone	3.88	43	355046	2.596	ppbv	92
16) 1,3-Butadiene	3.37	39	188117	2.151	ppbv #	15
19) Isopropyl Alcohol	3.99	45	16898	0.249	ppbv #	1
20) Methylene Chloride	4.36	84	181905	2.781	ppbv	97
25) Ethyl Acetate	5.71	43	82781	0.248	ppbv #	83
26) Hexane	5.71	57	105618	0.676	ppbv #	41
29) Chloroform	5.77	83	16357	0.067	ppbv	90
34) 2-Butanone	5.27	43	19869	0.136	ppbv #	61
39) 1,2-Dichloropropane	7.20	63	887297	7.860	ppbv #	24
53) Toluene	9.83	91	43228	0.147	ppbv #	76

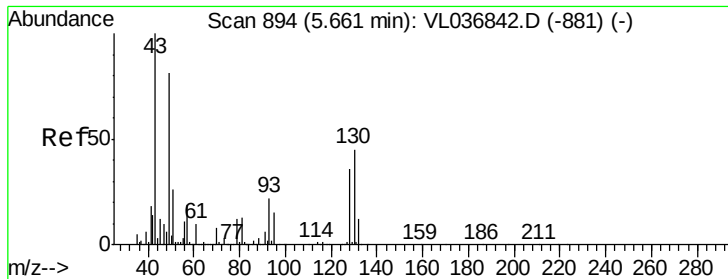
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 29 03:10:18 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.03 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

Instrument :
MSVOA_L
ClientSampleId :

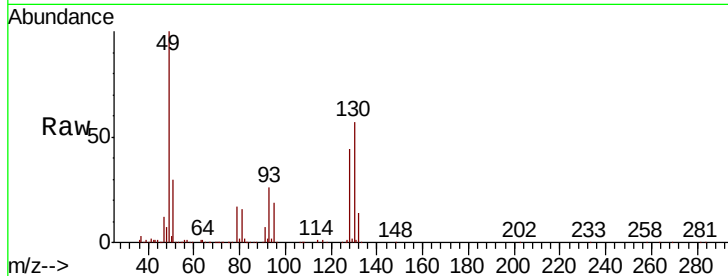
Tot Ion: 49 Resp: 1451360

Ion Ratio Lower Upper

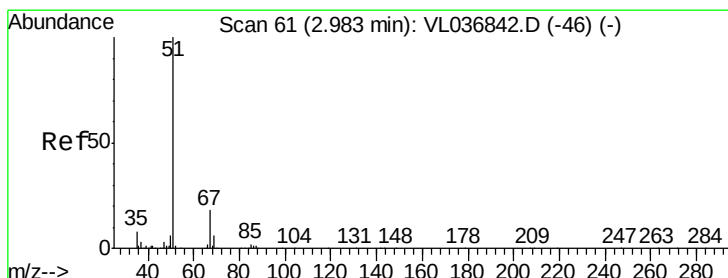
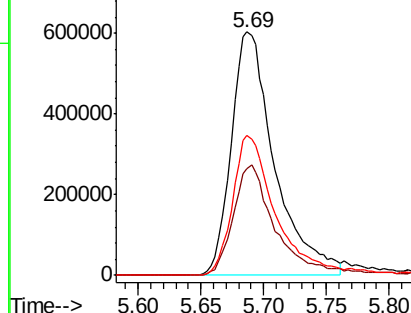
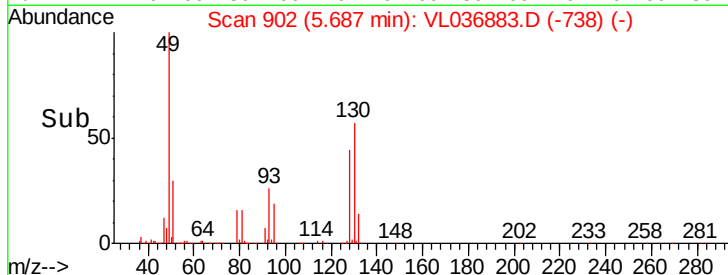
49 100

128 46.0 24.4 73.2

130 58.6 30.3 90.8



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



#3

Chlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.02 min

Lab File: VL036883.D

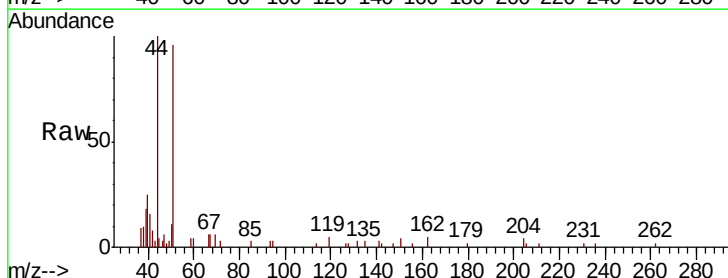
Acq: 28 Apr 2021 17:21

Tgt Ion: 51 Resp: 13208

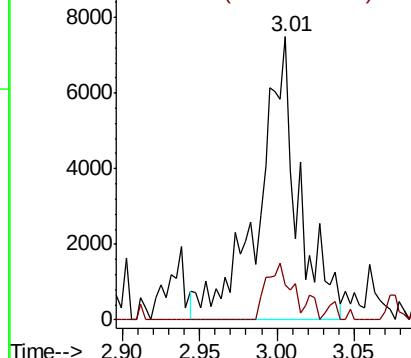
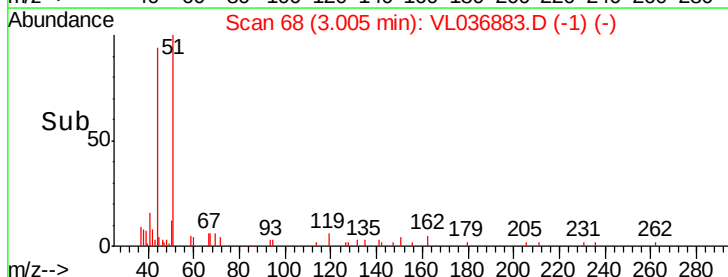
Ion Ratio Lower Upper

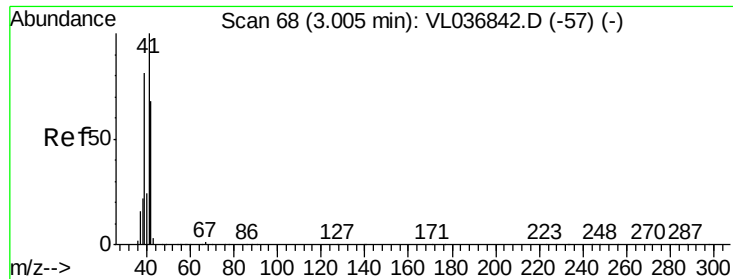
51 100

67 16.6 14.8 22.2



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

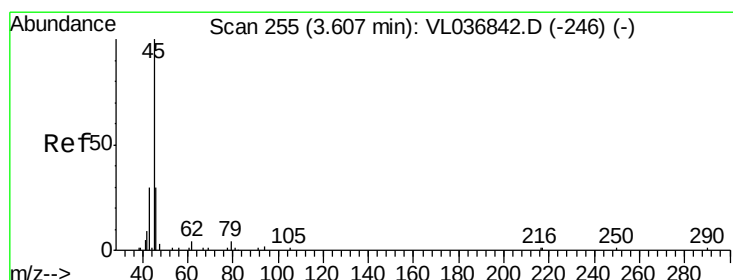
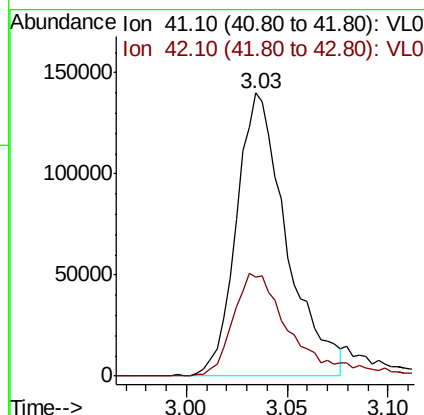
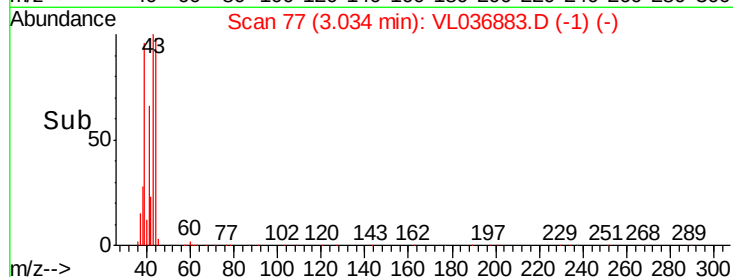
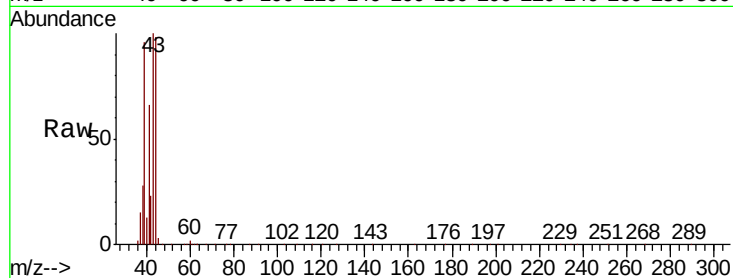




#9
Propene
Concen: 3.011 ppbv
RT: 3.03 min Scan# 77
Delta R.T. 0.03 min
Lab File: VL036883.D
Acq: 28 Apr 2021 17:21

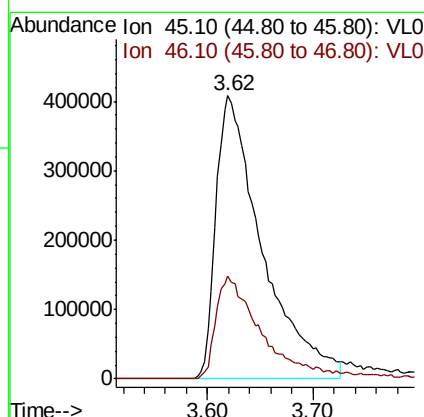
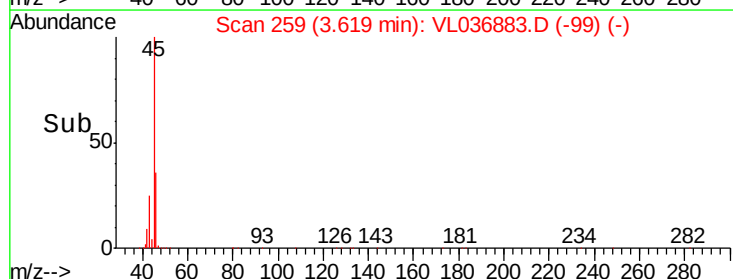
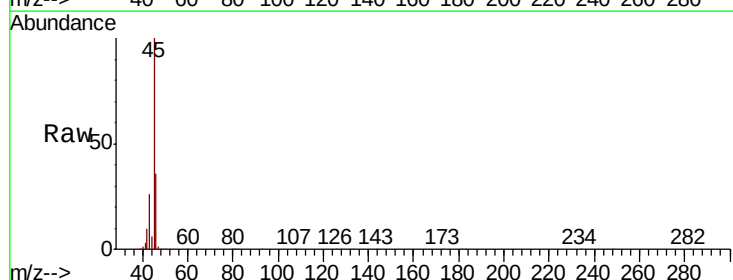
Instrument :
MSVOA_L
ClientSampleId :

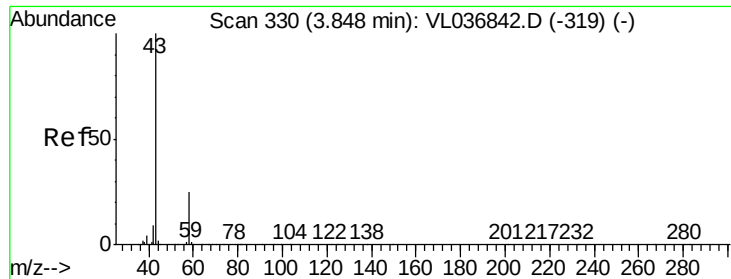
Tot Ion: 41 Resp: 242574
Ion Ratio Lower Upper
41 100
42 42.2 56.0 84.0#



#13
Ethanol
Concen: 120.941 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.01 min
Lab File: VL036883.D
Acq: 28 Apr 2021 17:21

Tgt Ion: 45 Resp: 1242481
Ion Ratio Lower Upper
45 100
46 37.1 16.8 67.4

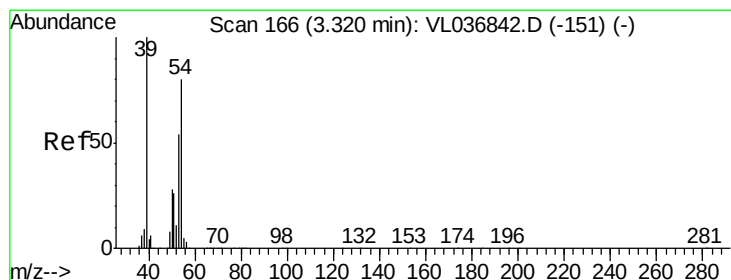
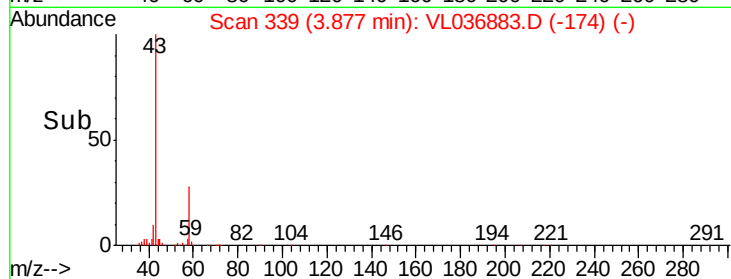
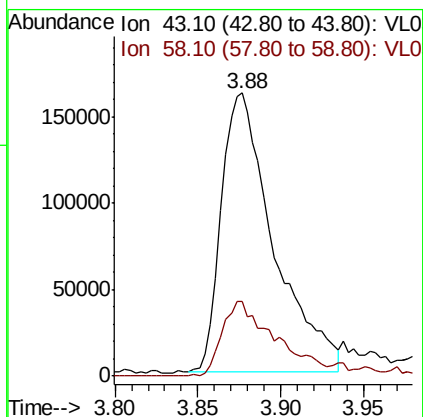
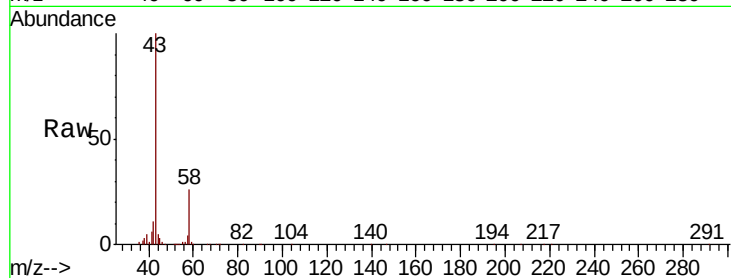




#15
Acetone
Concen: 2.596 ppbv
RT: 3.88 min Scan# 339
Delta R.T. 0.03 min
Lab File: VL036883.D
Acq: 28 Apr 2021 17:21

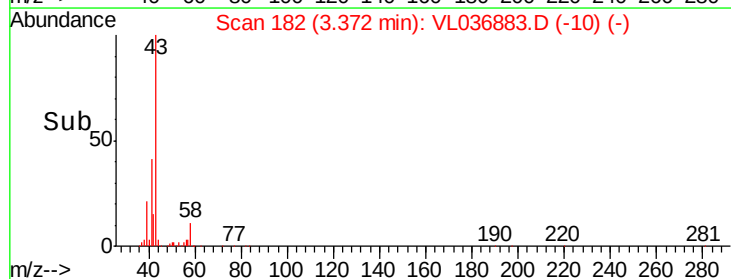
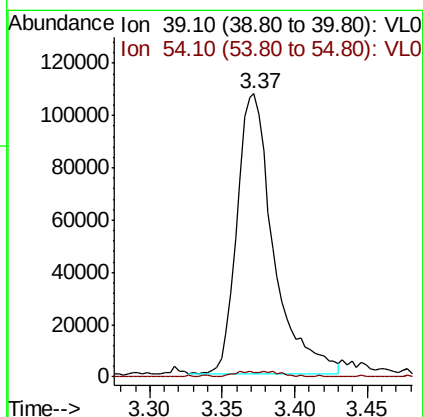
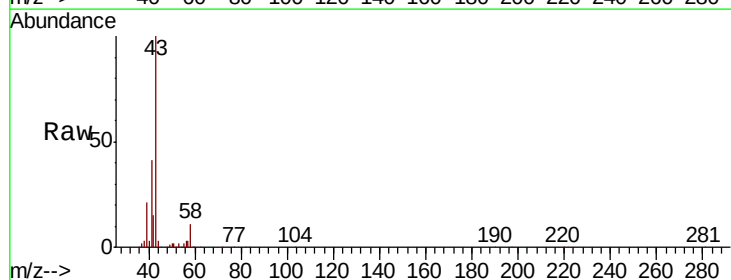
Instrument :
MSVOA_L
ClientSampleId :

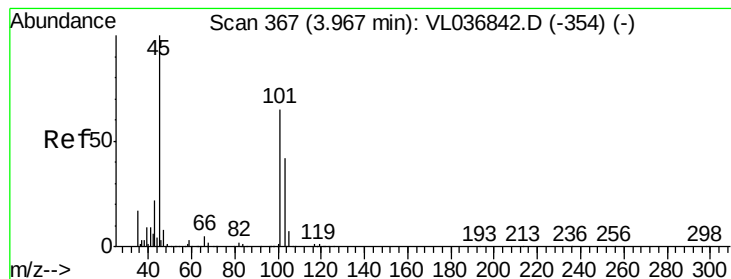
Tot Ion: 43 Resp: 355046
Ion Ratio Lower Upper
43 100
58 31.3 21.7 32.5



#16
1,3-Butadiene
Concen: 2.151 ppbv
RT: 3.37 min Scan# 182
Delta R.T. 0.05 min
Lab File: VL036883.D
Acq: 28 Apr 2021 17:21

Tgt Ion: 39 Resp: 188117
Ion Ratio Lower Upper
39 100
54 2.7 59.6 89.4#





#19

Isopropyl Alcohol

Concen: 0.249 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.03 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

Instrument :

MSVOA_L

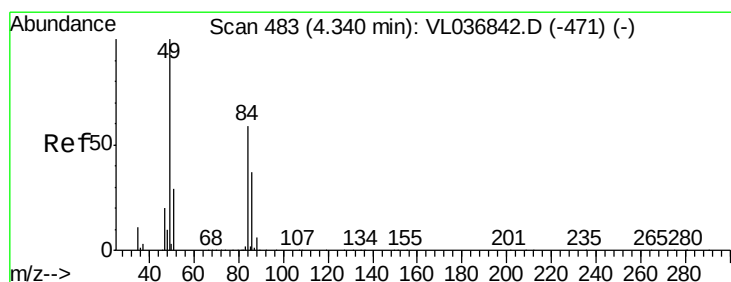
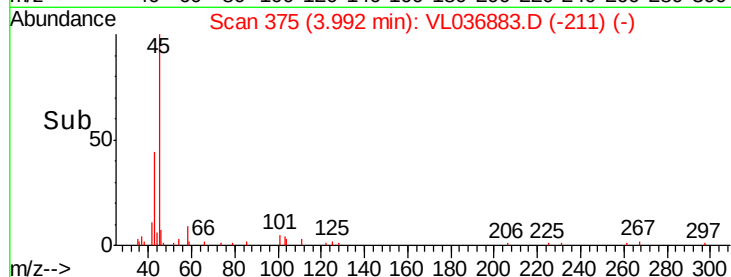
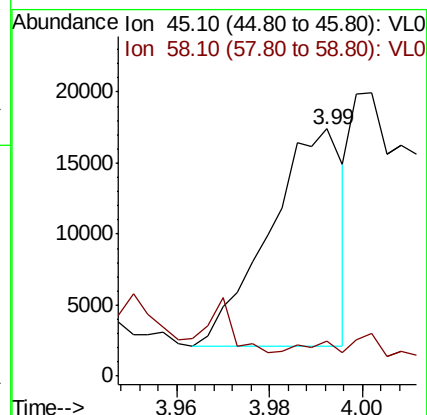
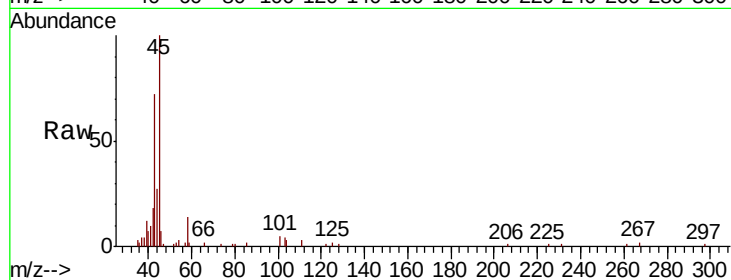
ClientSampleId :

Tot Ion: 45 Resp: 16898

Ion Ratio Lower Upper

45 100

58 652.4 2.8 4.2#



#20

Methylene Chloride

Concen: 2.781 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

Tgt Ion: 84 Resp: 181905

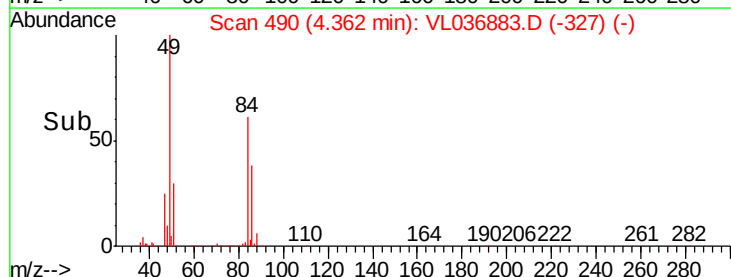
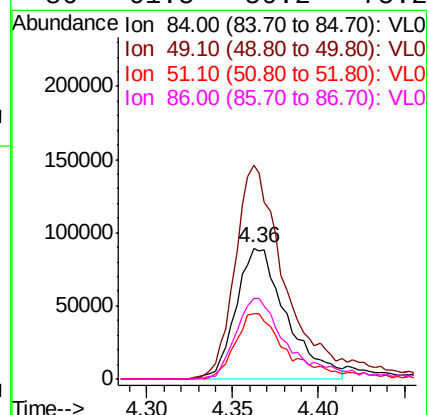
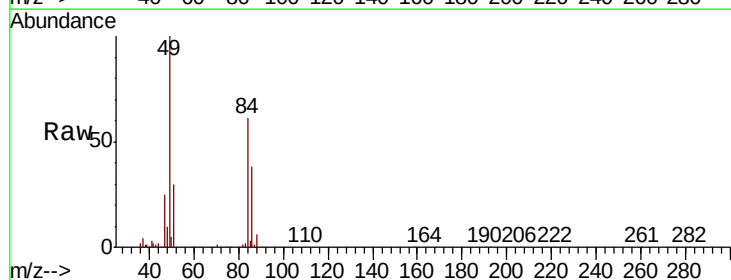
Ion Ratio Lower Upper

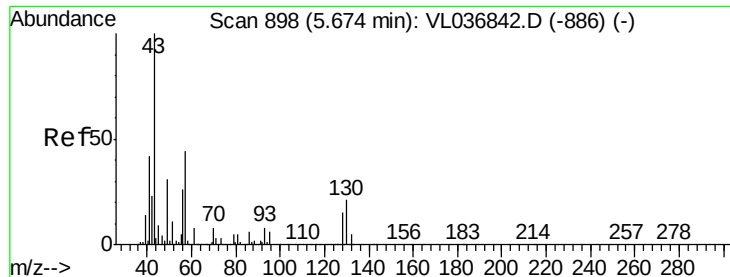
84 100

49 162.7 135.4 203.0

51 49.7 39.3 58.9

86 61.5 50.2 75.2

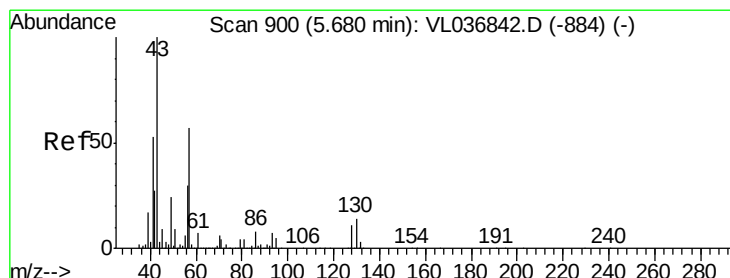
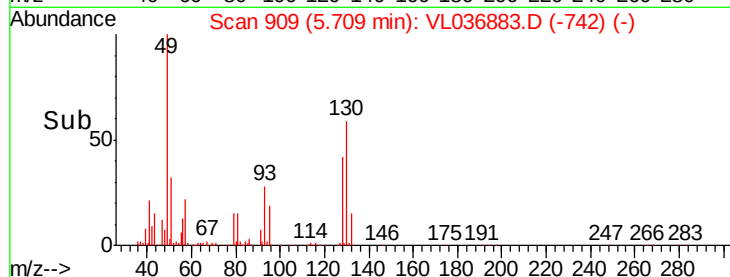
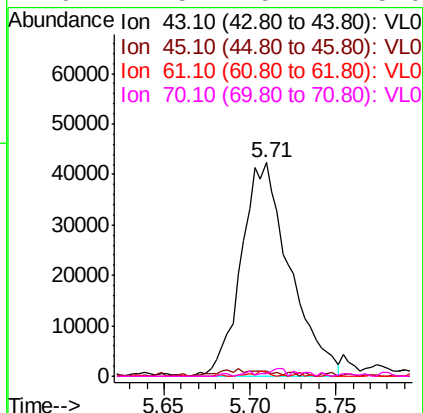
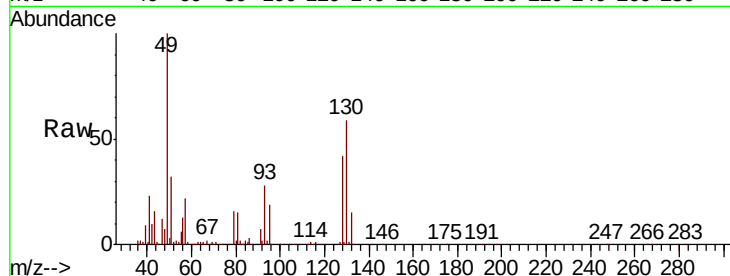




#25
Ethyl Acetate
Concen: 0.248 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.04 min
Lab File: VL036883.D
Acq: 28 Apr 2021 17:21

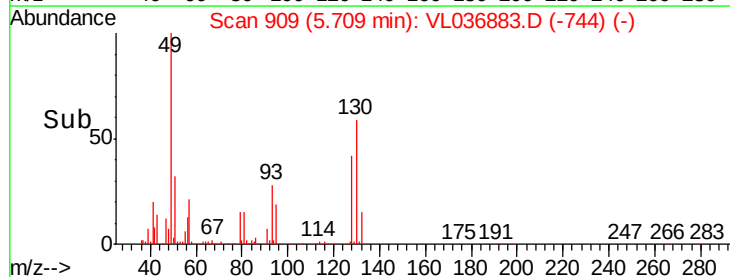
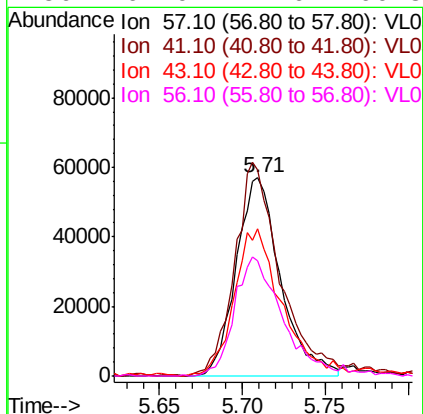
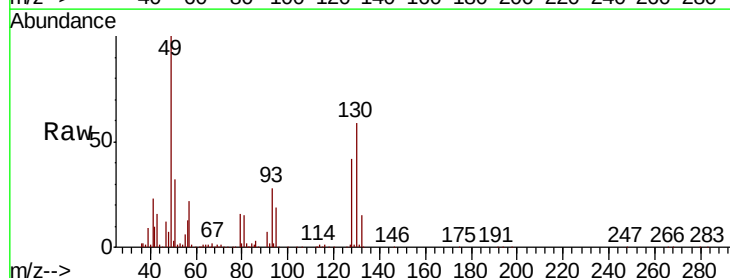
Instrument :
MSVOA_L
ClientSampleId :

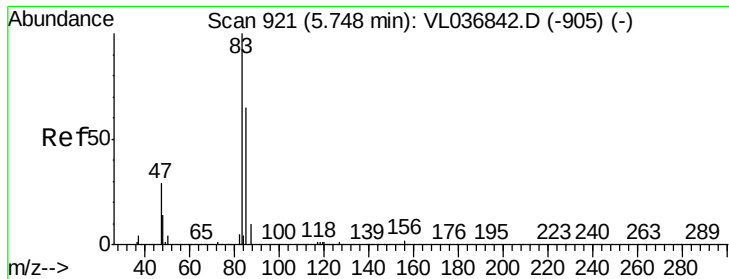
Tot Ion:	43	Resp:	82781
Ion	Ratio	Lower	Upper
43	100		
45	3.9	7.8	11.8#
61	1.4	7.4	11.0#
70	2.5	5.4	8.0#



#26
Hexane
Concen: 0.676 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL036883.D
Acq: 28 Apr 2021 17:21

Tgt Ion:	57	Resp:	105618
Ion	Ratio	Lower	Upper
57	100		
41	115.0	77.7	116.5
43	82.0	180.5	270.7#
56	67.0	44.6	66.8#





#29

Chloroform

Concen: 0.067 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.02 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

Instrument :

MSVOA_L

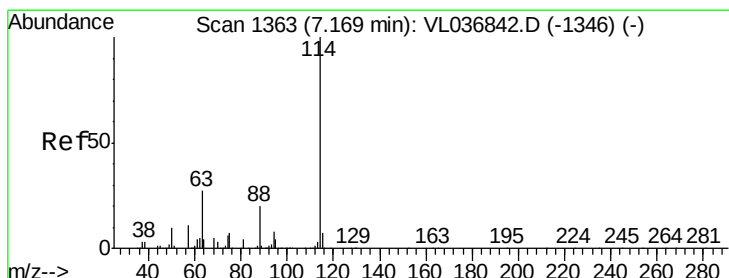
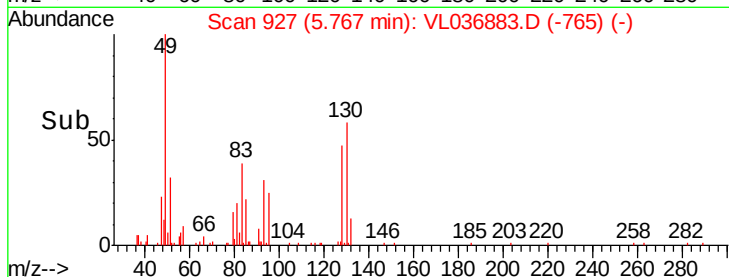
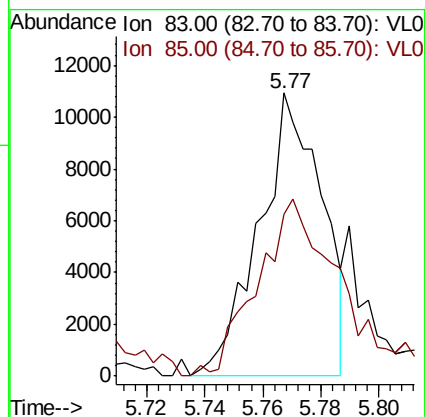
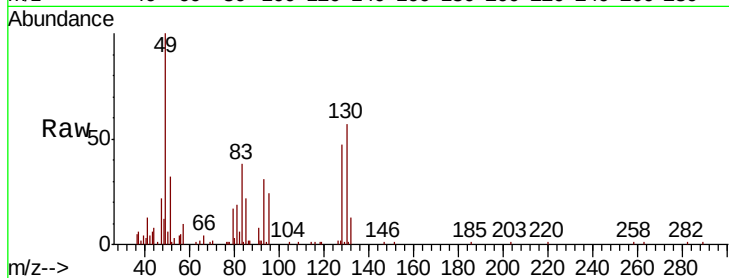
ClientSampleId :

Tot Ion: 83 Resp: 16357

Ion Ratio Lower Upper

83 100

85 57.2 52.2 78.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. 0.03 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

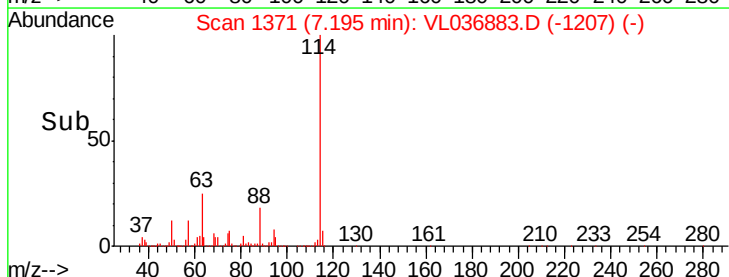
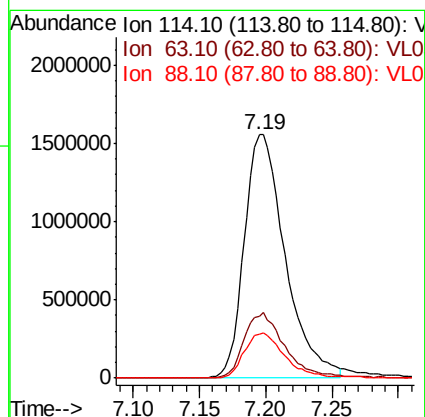
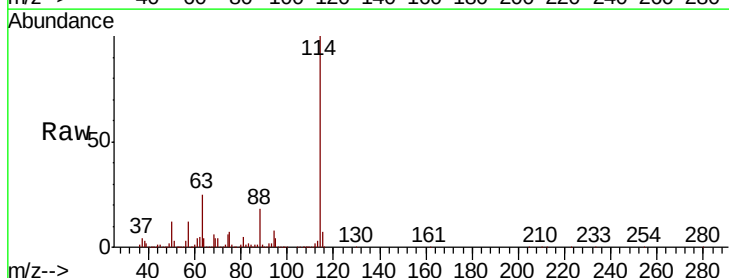
Tgt Ion: 114 Resp: 3344118

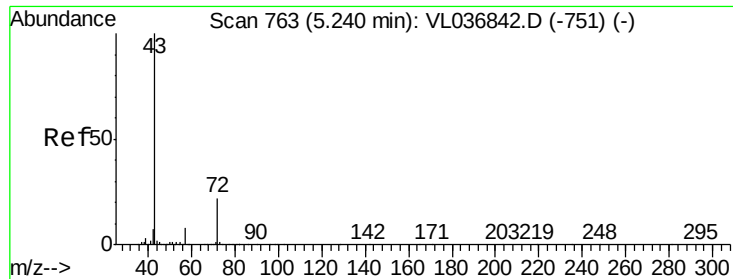
Ion Ratio Lower Upper

114 100

63 27.6 21.9 32.9

88 18.9 15.1 22.7

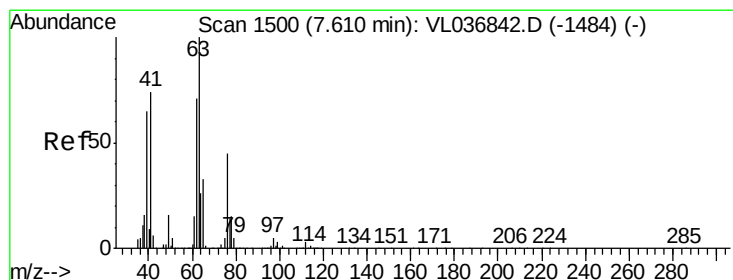
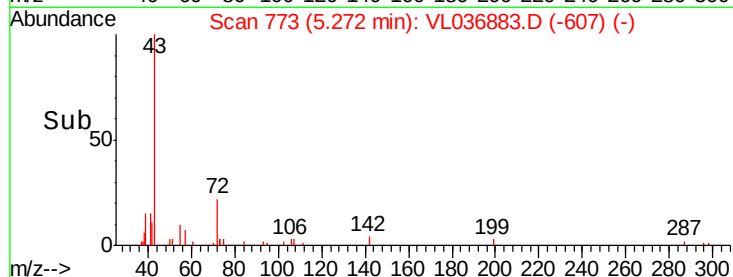
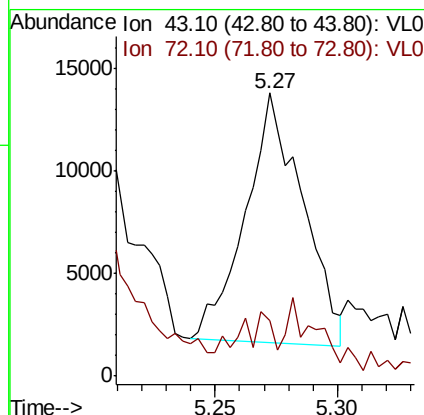
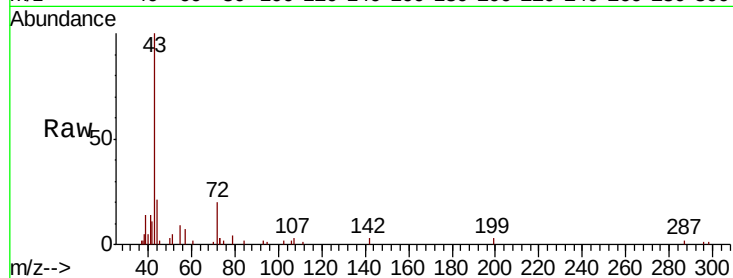




#34
 2-Butanone
 Concen: 0.136 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.03 min
 Lab File: VL036883.D
 Acq: 28 Apr 2021 17:21

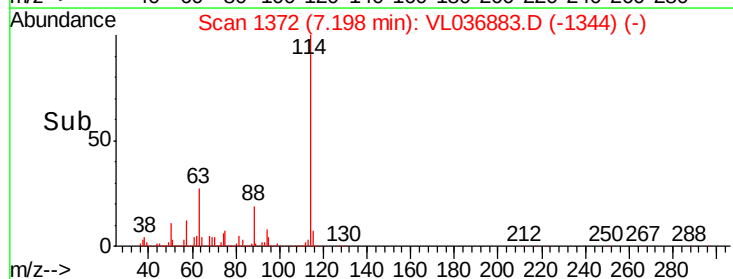
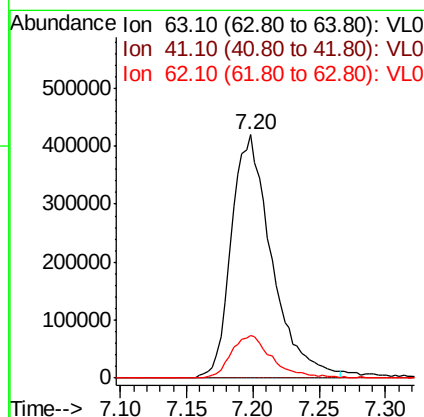
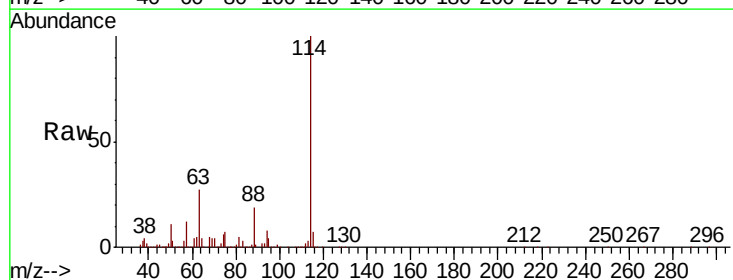
Instrument :
 MSVOA_L
 ClientSampleId :

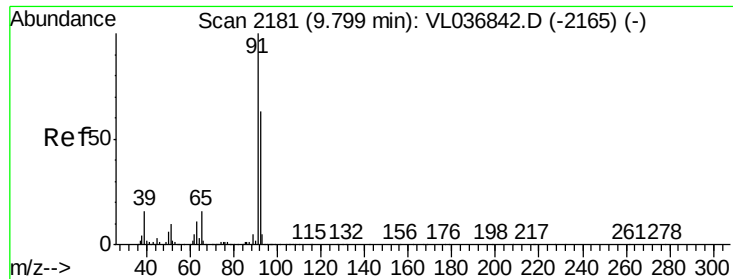
Tot Ion: 43 Resp: 19869
 Ion Ratio Lower Upper
 43 100
 72 40.5 17.6 26.4#



#39
 1,2-Dichloropropane
 Concen: 7.860 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.41 min
 Lab File: VL036883.D
 Acq: 28 Apr 2021 17:21

Tgt Ion: 63 Resp: 887297
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.1 88.7#
 62 17.6 56.9 85.3#





#53

Toluene

Concen: 0.147 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. 0.03 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

Instrument :

MSVOA_L

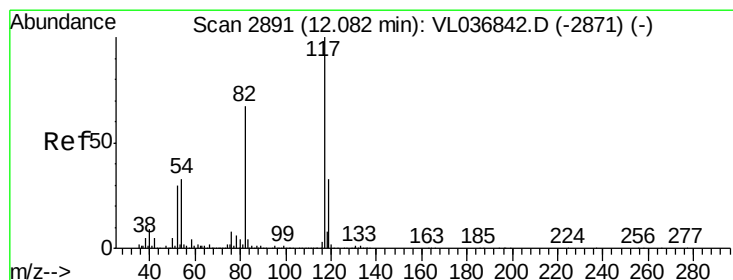
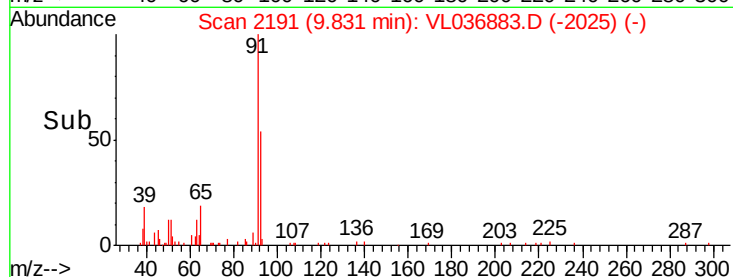
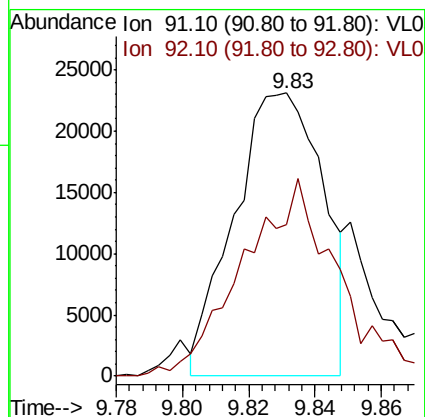
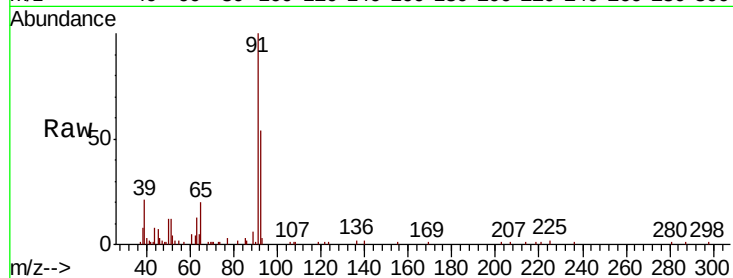
ClientSampleId :

Tot Ion: 91 Resp: 43228

Ion Ratio Lower Upper

91 100

92 79.6 49.0 73.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.03 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

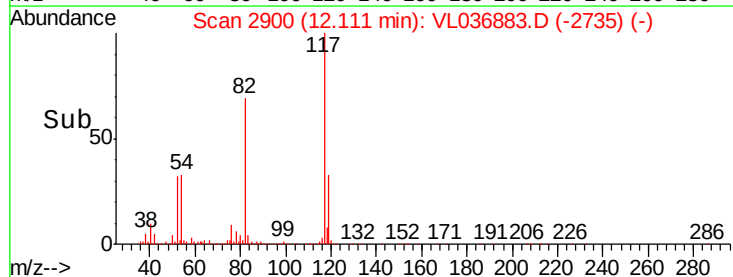
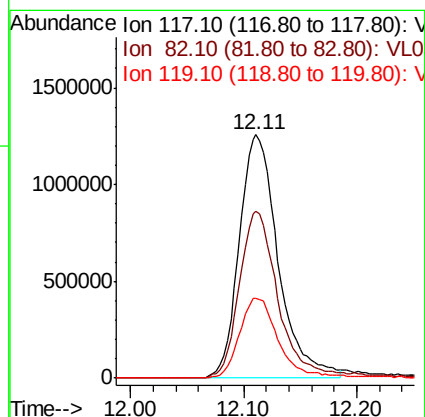
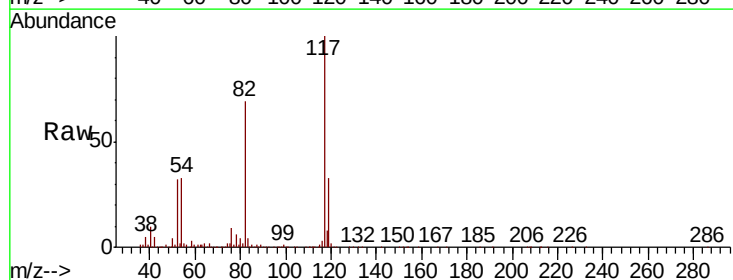
Tgt Ion: 117 Resp: 3012293

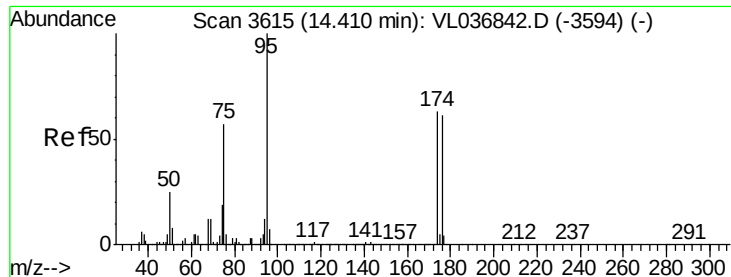
Ion Ratio Lower Upper

117 100

82 71.0 53.5 80.3

119 33.9 25.6 38.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.448 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.03 min

Lab File: VL036883.D

Acq: 28 Apr 2021 17:21

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2284531

Ion Ratio Lower Upper

95 100

174 69.3 52.2 78.2

175 4.8 4.0 6.0

