

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037121.D
 Acq On : 3 Jun 2021 4:12
 Operator : SY/AP
 Sample : M2548-17DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 03 07:40:52 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1313374	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4067511	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3621837	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2605535	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

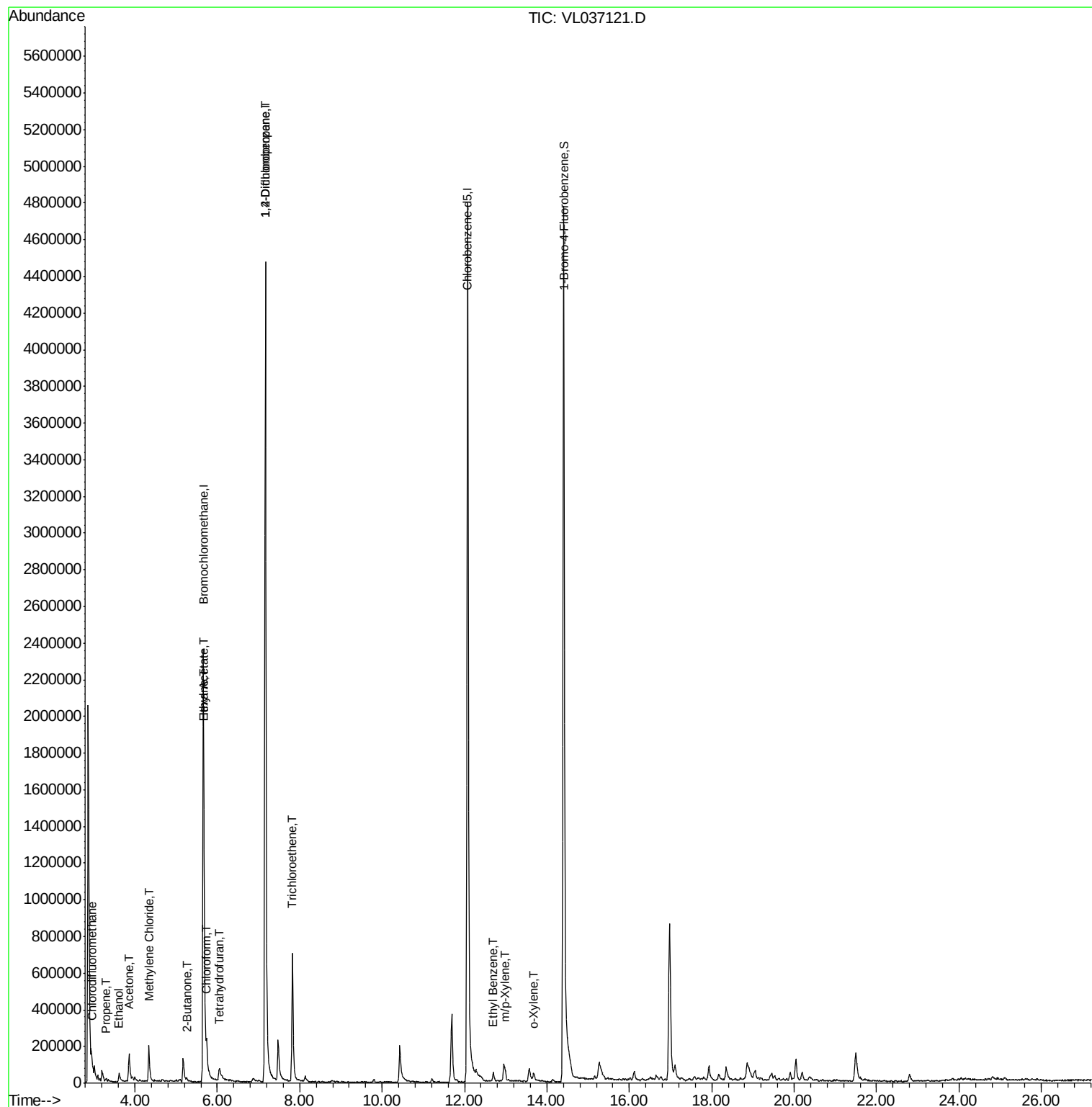
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	30348	0.126	ppbv #	70
9) Propene	3.29	41	2764	0.032	ppbv	99
13) Ethanol	3.62	45	24952	2.171	ppbv #	35
15) Acetone	3.86	43	206442	1.535	ppbv #	73
20) Methylene Chloride	4.34	84	80923	1.122	ppbv	96
25) Ethyl Acetate	5.68	43	35599	0.110	ppbv #	83
26) Hexane	5.68	57	53155	0.322	ppbv #	44
29) Chloroform	5.74	83	100444	0.431	ppbv	91
34) 2-Butanone	5.26	43	22492	0.152	ppbv #	48
38) Trichloroethene	7.83	130	259168	1.729	ppbv	98
39) 1,2-Dichloropropane	7.17	63	975889	7.231	ppbv #	26
41) Tetrahydrofuran	6.04	42	9233	0.109	ppbv #	36
58) Ethyl Benzene	12.70	91	42634	0.083	ppbv	94
59) m/p-Xylene	12.98	91	43582	0.103	ppbv #	30
60) o-Xylene	13.69	91	17147	0.043	ppbv #	41

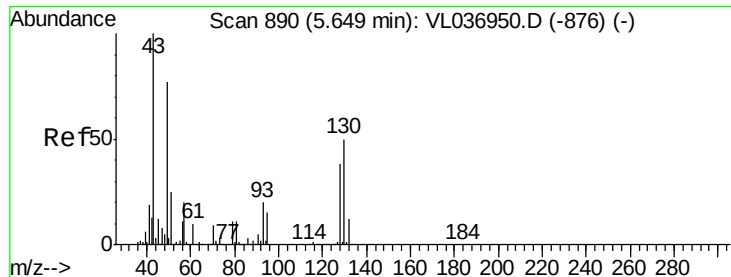
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 03 07:40:52 2021
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration

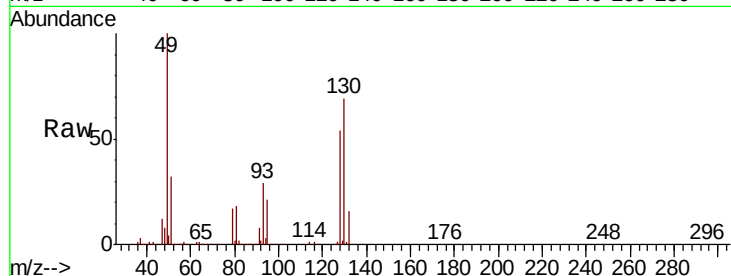




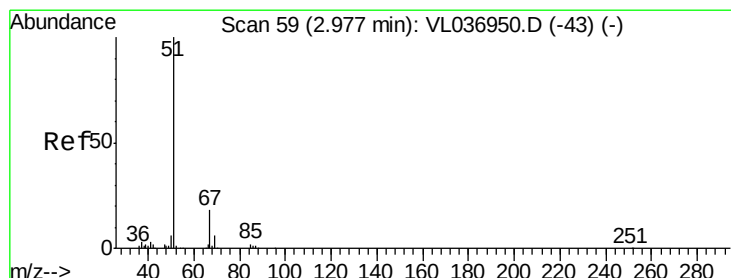
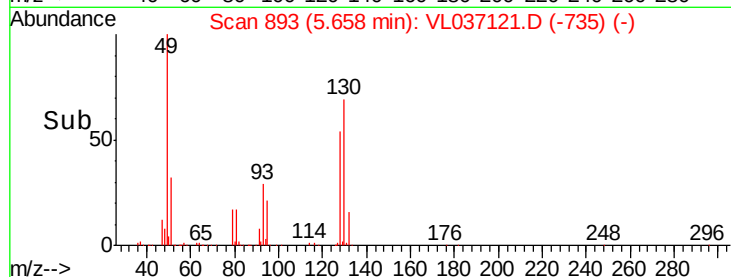
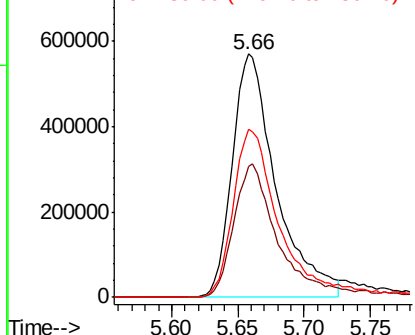
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. 0.01 min
 Lab File: VL037121.D
 Acq: 3 Jun 2021 4:12

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 49 Resp: 1313374
 Ion Ratio Lower Upper
 49 100
 128 58.4 26.9 80.7
 130 76.3 33.8 101.4

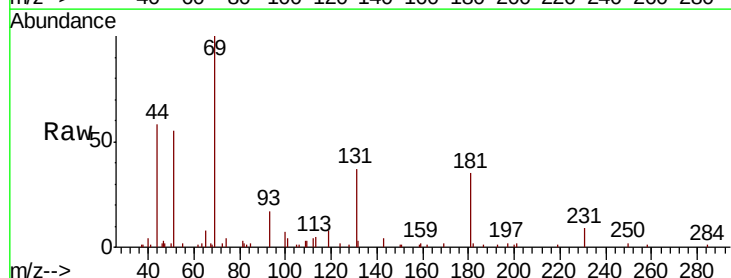


Abundance Ion 49.10 (48.80 to 49.80): VL0
 Ion 128.00 (127.70 to 128.70): V
 Ion 130.00 (129.70 to 130.70): V

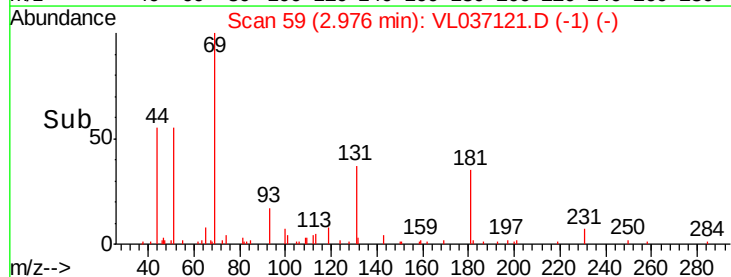
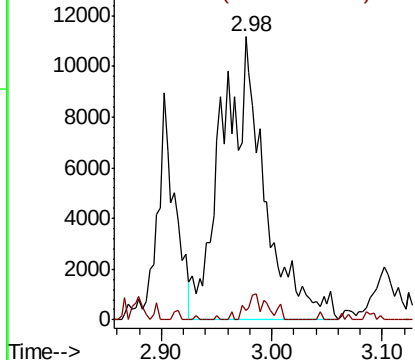


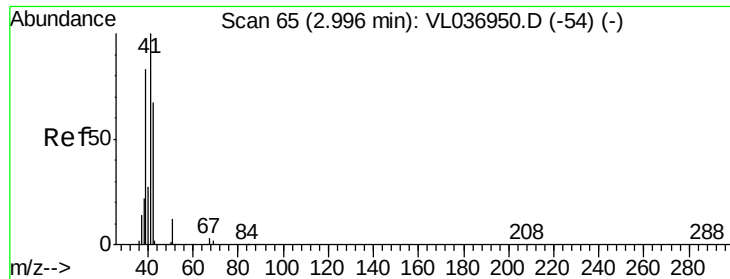
#3
 Chlorodifluoromethane
 Concen: 0.126 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. -0.00 min
 Lab File: VL037121.D
 Acq: 3 Jun 2021 4:12

Tgt Ion: 51 Resp: 30348
 Ion Ratio Lower Upper
 51 100
 67 4.7 14.6 21.8#



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





#9

Propene

Concen: 0.032 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.30 min

Lab File: VL037121.D

Acq: 3 Jun 2021 4:12

Instrument :

MSVOA_L

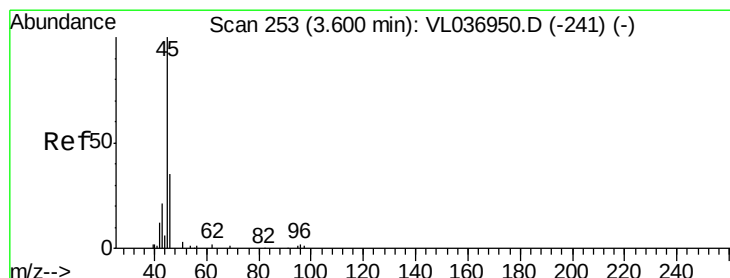
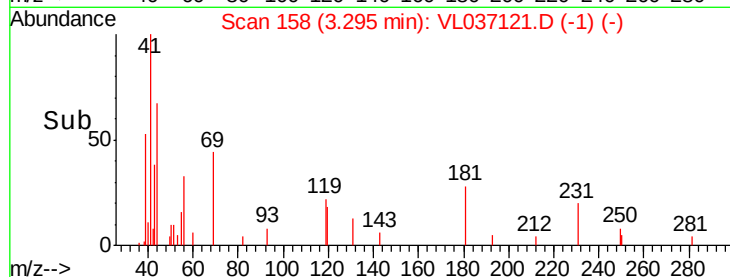
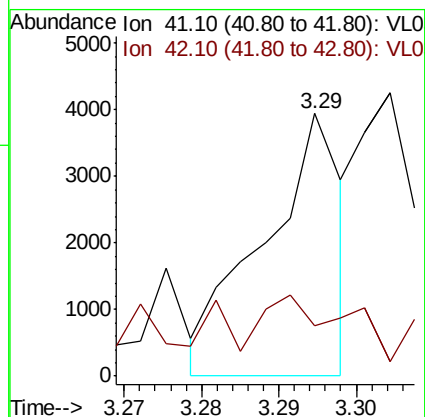
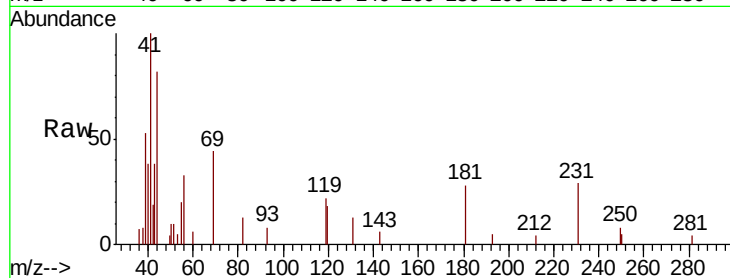
ClientSampleId :

Tot Ion: 41 Resp: 2764

Ion Ratio Lower Upper

41 100

42 68.5 53.9 80.9



#13

Ethanol

Concen: 2.171 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL037121.D

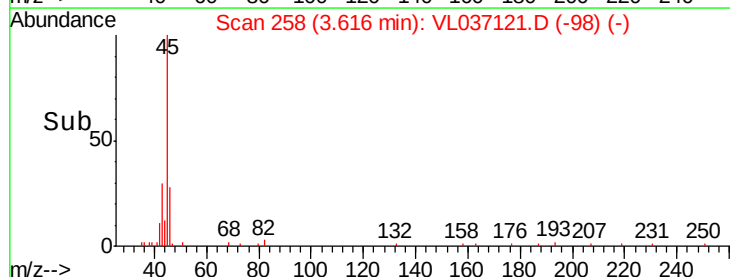
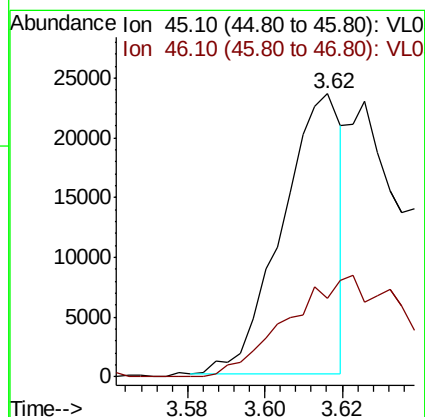
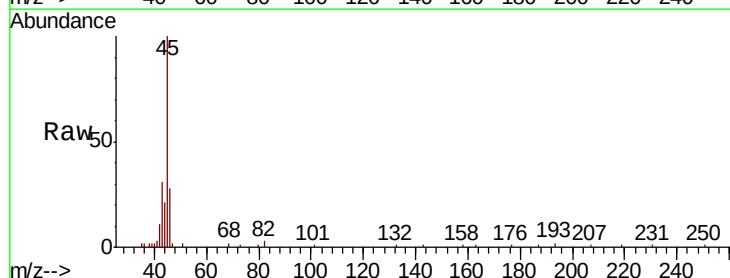
Acq: 3 Jun 2021 4:12

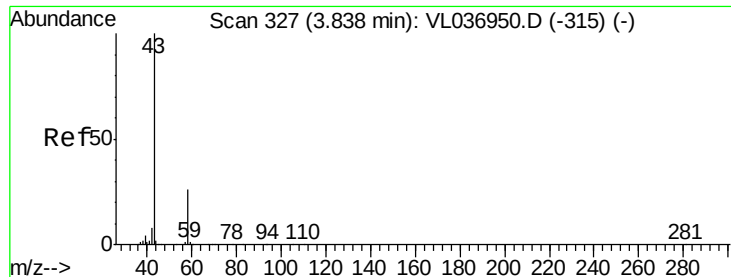
Tgt Ion: 45 Resp: 24952

Ion Ratio Lower Upper

45 100

46 0.0 16.3 65.3#





#15

Acetone

Concen: 1.535 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL037121.D

Acq: 3 Jun 2021 4:12

Instrument :

MSVOA_L

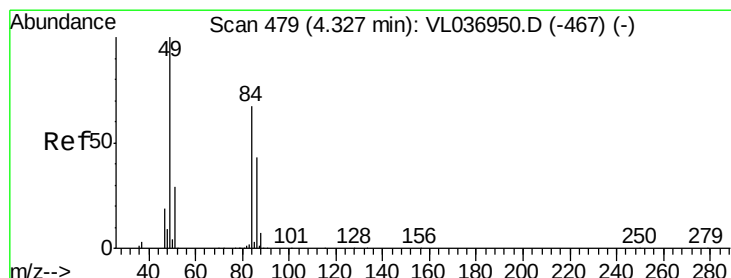
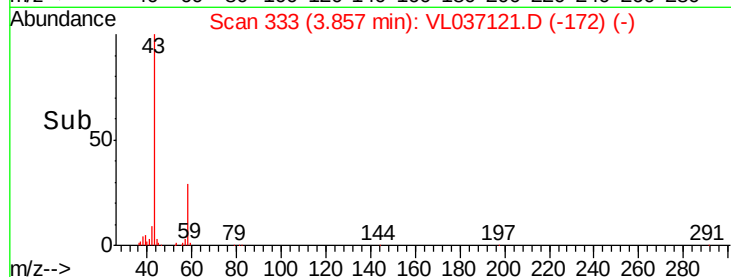
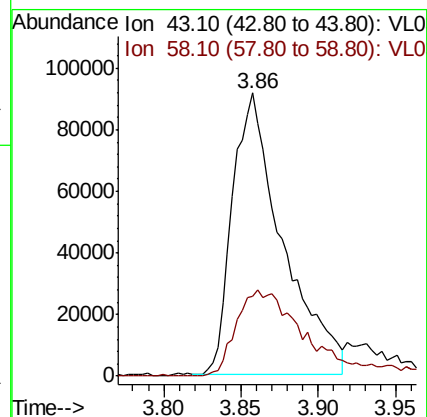
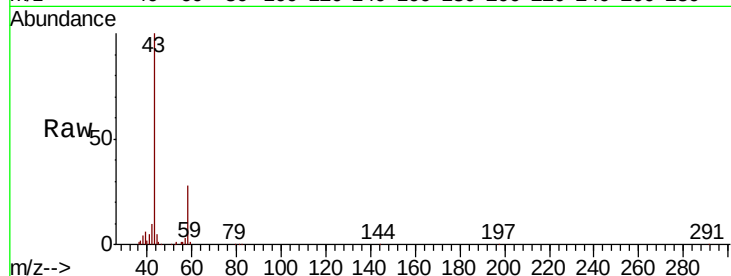
ClientSampled :

Tot Ion: 43 Resp: 206442

Ion Ratio Lower Upper

43 100

58 44.8 24.0 36.0#



#20

Methylene Chloride

Concen: 1.122 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.01 min

Lab File: VL037121.D

Acq: 3 Jun 2021 4:12

Tgt Ion: 84 Resp: 80923

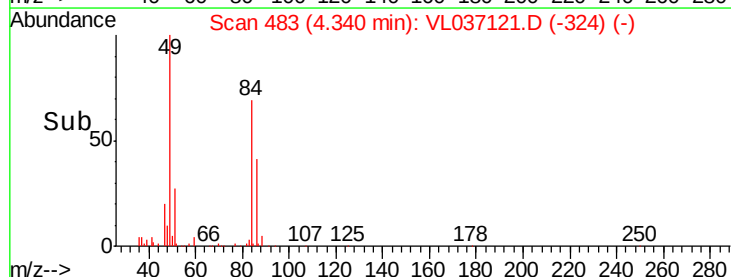
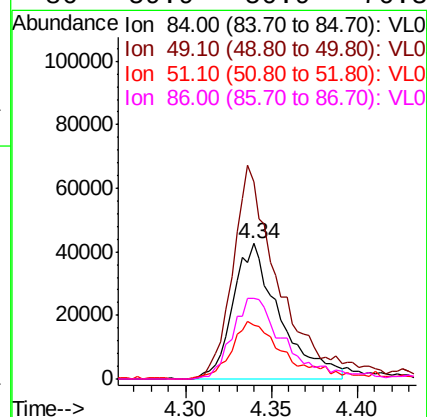
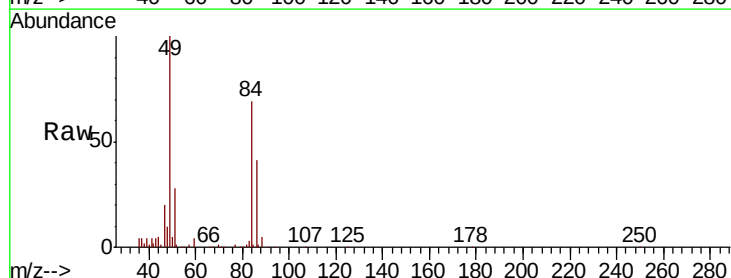
Ion Ratio Lower Upper

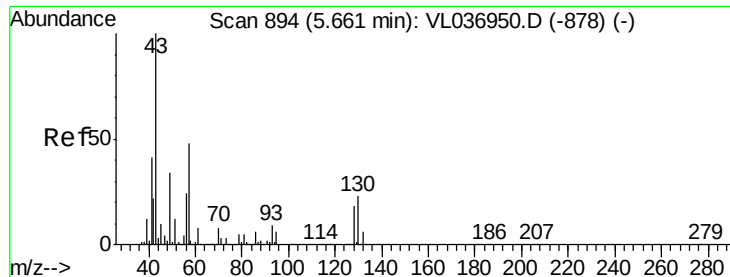
84 100

49 145.8 119.8 179.6

51 38.7 35.1 52.7

86 59.9 50.9 76.3

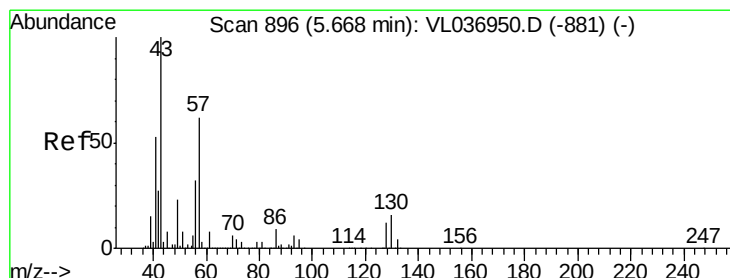
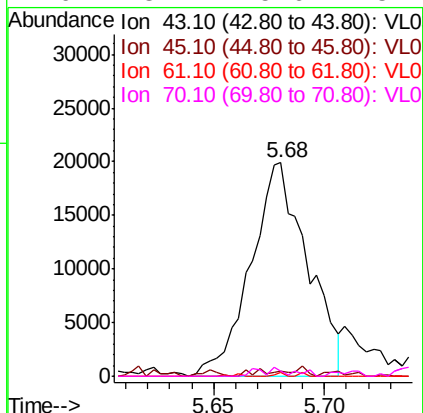
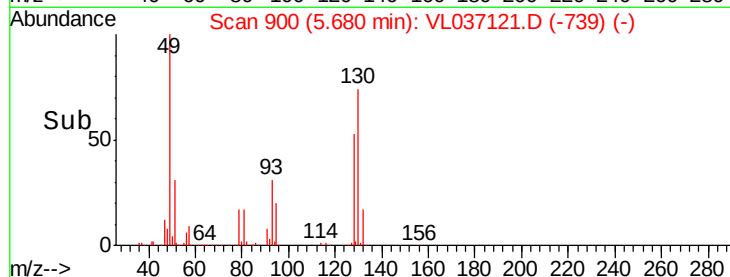
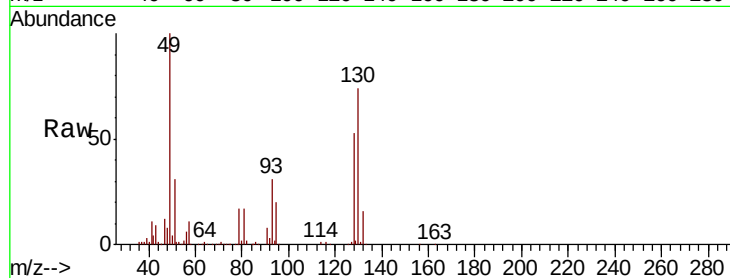




#25
Ethyl Acetate
Concen: 0.110 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.02 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

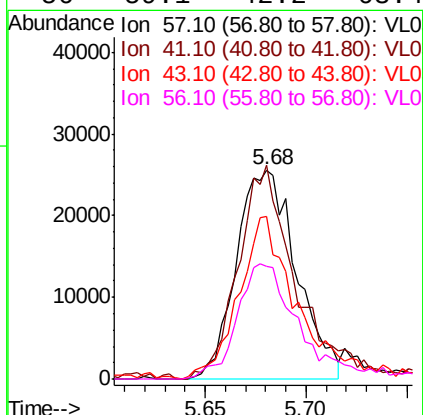
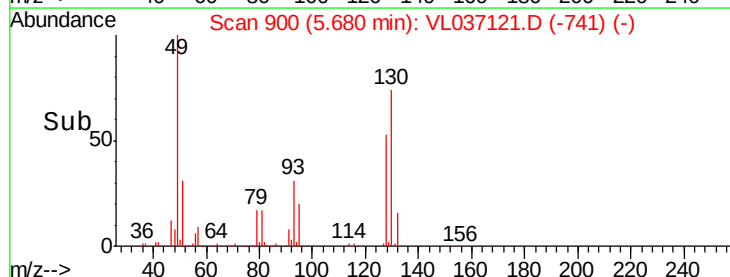
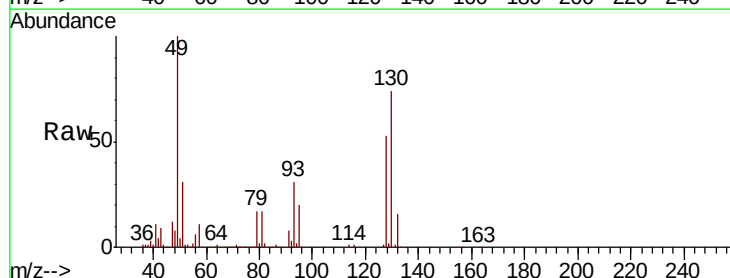
Instrument :
MSVOA_L
ClientSampleId :

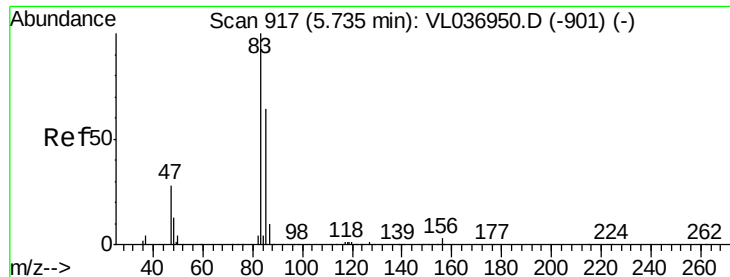
Tot Ion:	43	Resp:	35599
Ion	Ratio	Lower	Upper
43	100		
45	4.3	7.8	11.8#
61	0.7	7.8	11.8#
70	3.4	5.6	8.4#



#26
Hexane
Concen: 0.322 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

Tgt Ion:	57	Resp:	53155
Ion	Ratio	Lower	Upper
57	100		
41	103.3	70.5	105.7
43	76.2	165.8	248.8#
56	59.1	42.2	63.4





#29

Chloroform

Concen: 0.431 ppbv

RT: 5.74 min Scan# 919

Delta R.T. 0.01 min

Lab File: VL037121.D

Acq: 3 Jun 2021 4:12

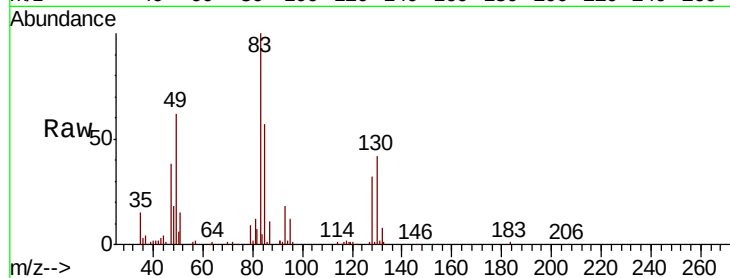
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 83 Resp: 100444

Ion Ratio Lower Upper

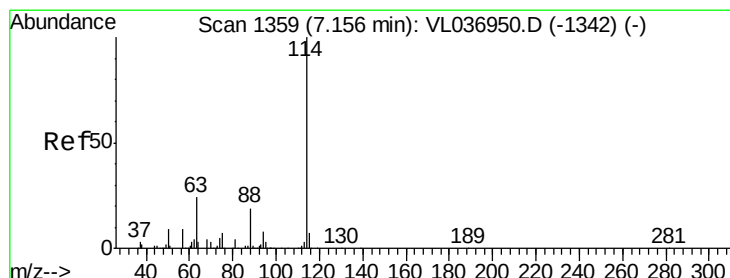
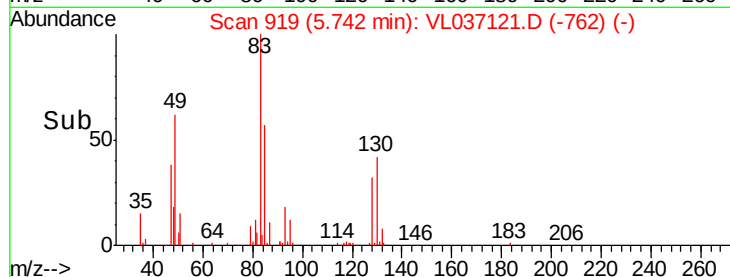
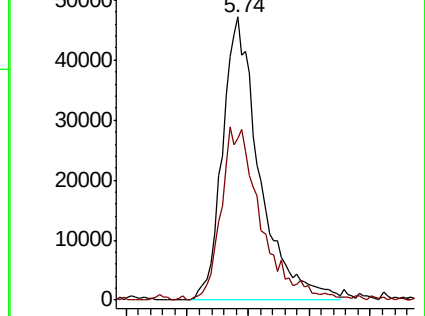
83 100

85 57.1 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VL037121.D

Acq: 3 Jun 2021 4:12

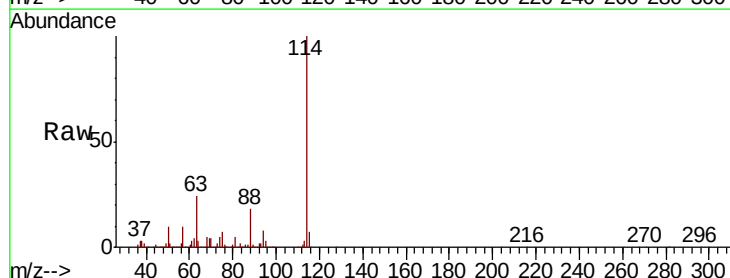
Tgt Ion: 114 Resp: 4067511

Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

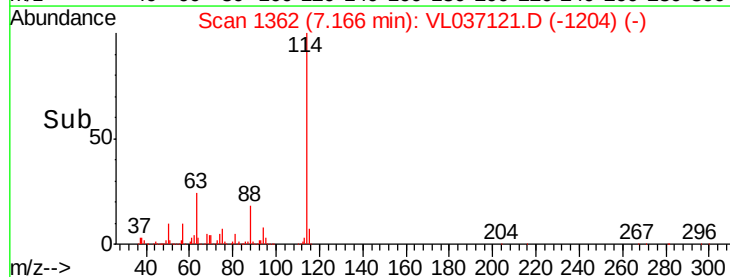
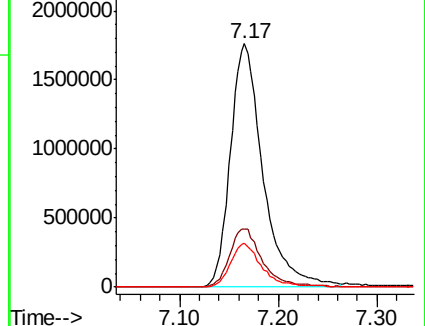
88 17.7 14.6 21.8

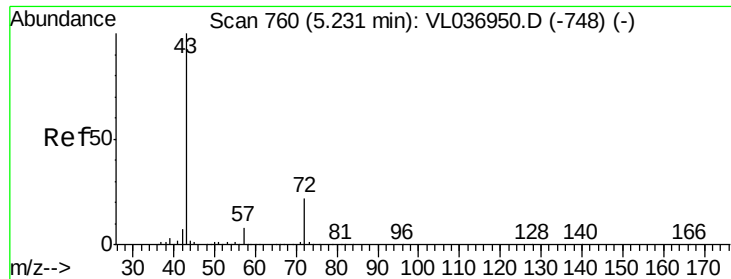


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

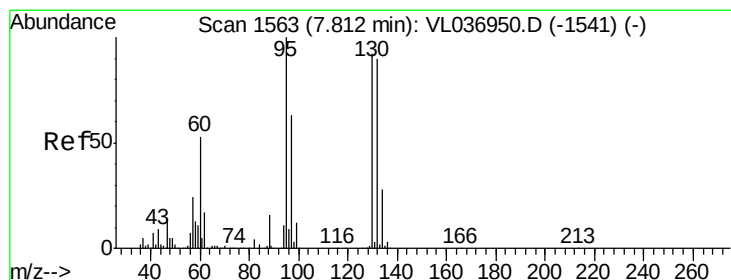
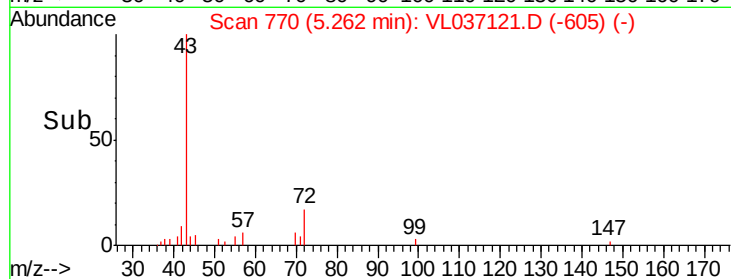
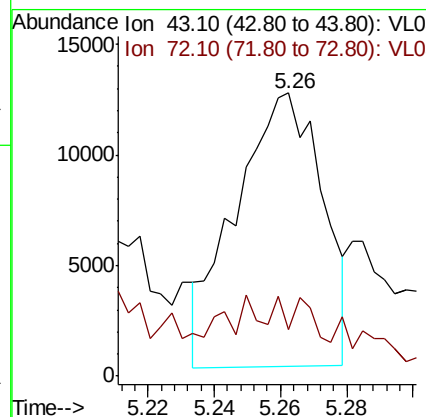
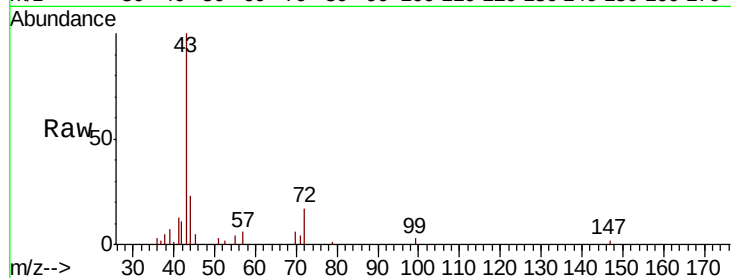




#34
2-Butanone
Concen: 0.152 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.03 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

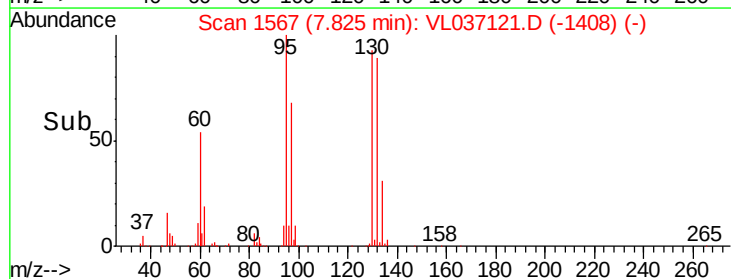
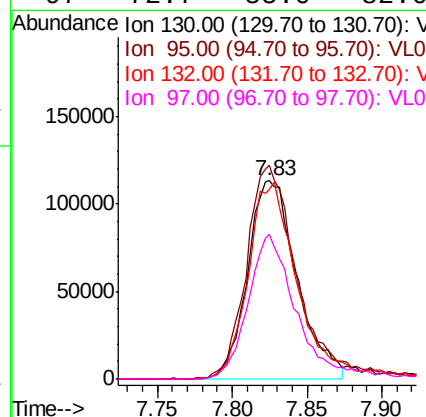
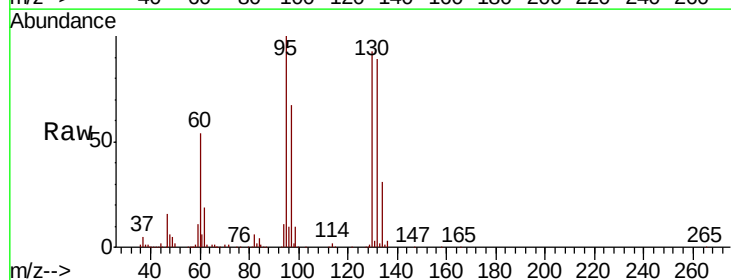
Instrument :
MSVOA_L
ClientSampled :

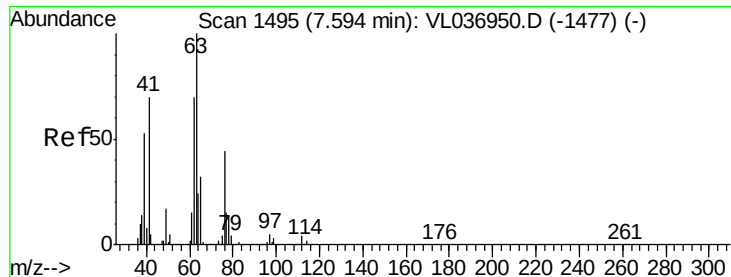
Tot Ion: 43 Resp: 22492
Ion Ratio Lower Upper
43 100
72 49.1 19.0 28.4#



#38
Trichloroethene
Concen: 1.729 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

Tgt Ion:130 Resp: 259168
Ion Ratio Lower Upper
130 100
95 107.5 86.9 130.3
132 95.8 78.4 117.6
97 72.7 55.0 82.6

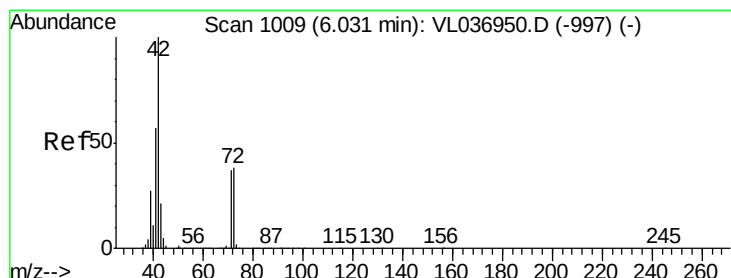
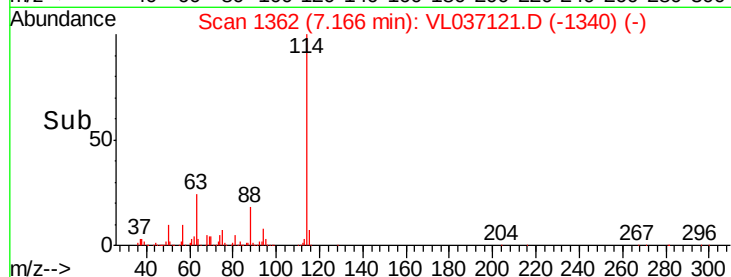
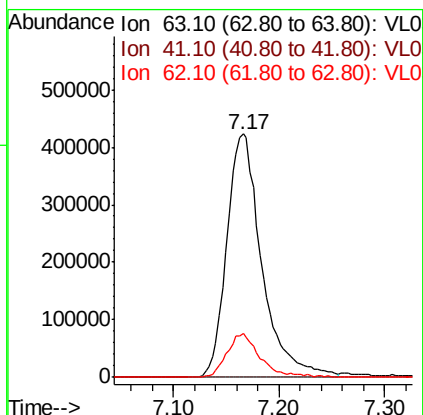
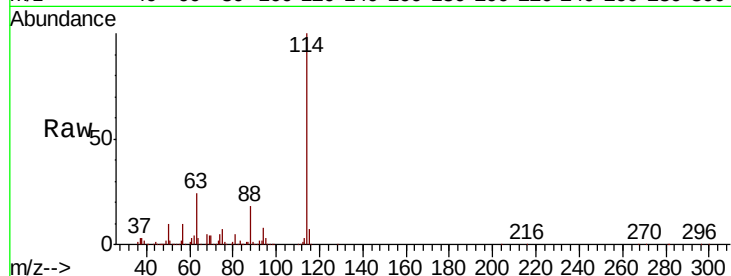




#39
 1,2-Dichloropropane
 Concen: 7.231 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.43 min
 Lab File: VL037121.D
 Acq: 3 Jun 2021 4:12

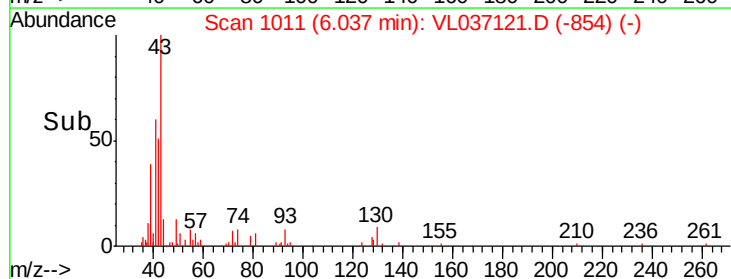
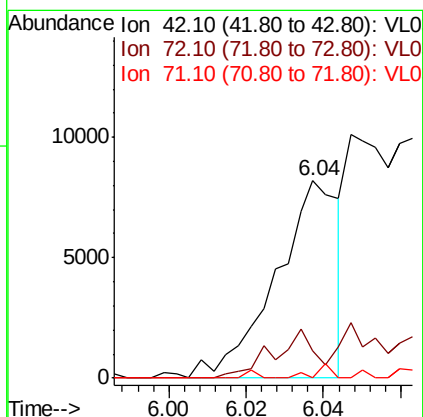
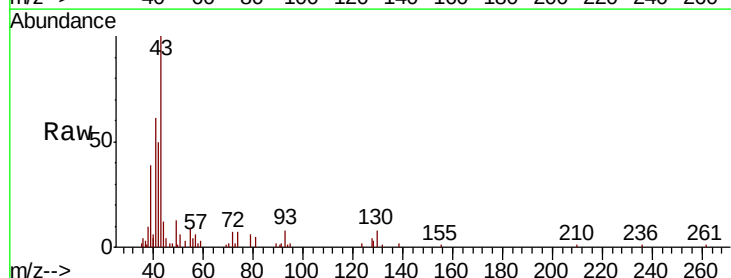
Instrument :
 MSVOA_L
 ClientSampled :

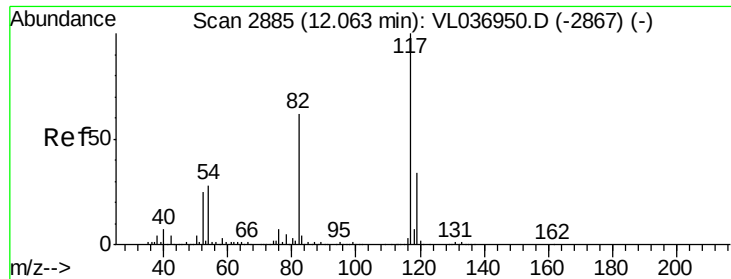
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.2	55.7	83.5#
62	17.9	56.2	84.4#



#41
 Tetrahydrofuran
 Concen: 0.109 ppbv
 RT: 6.04 min Scan# 1011
 Delta R.T. 0.01 min
 Lab File: VL037121.D
 Acq: 3 Jun 2021 4:12

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.2#
71	0.0	30.4	45.6#

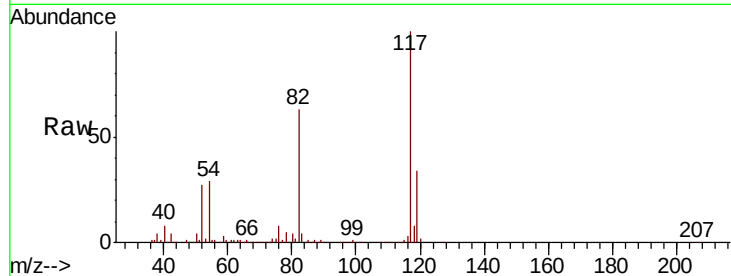




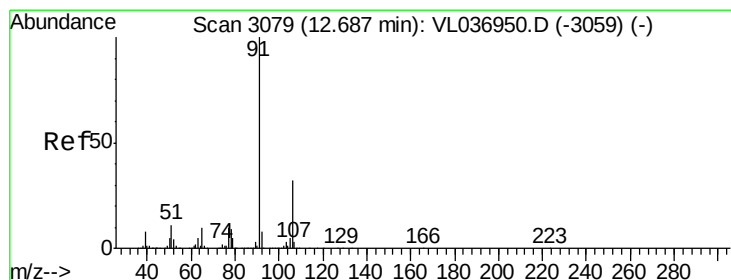
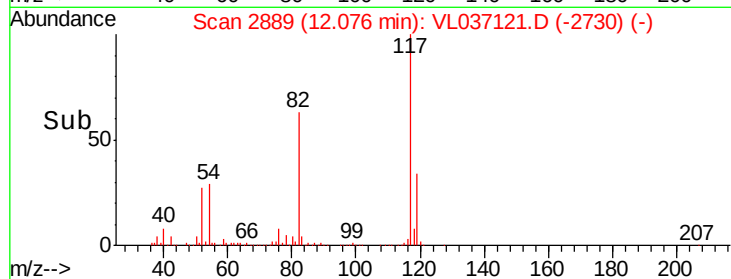
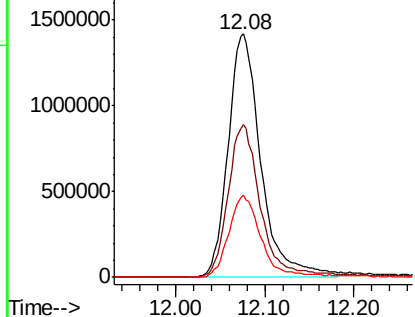
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. 0.01 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3621837
Ion Ratio Lower Upper
117 100
82 63.9 52.6 79.0
119 34.2 46.6 70.0#

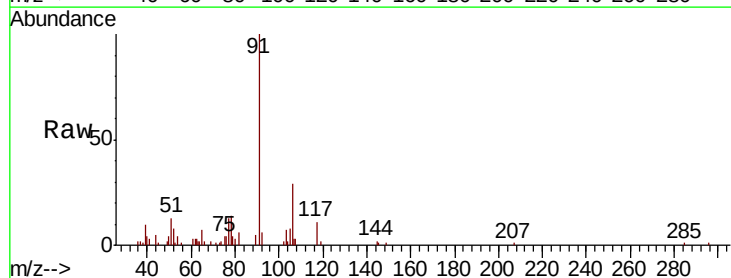


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

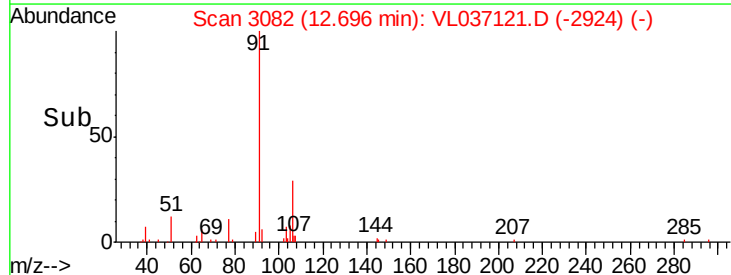
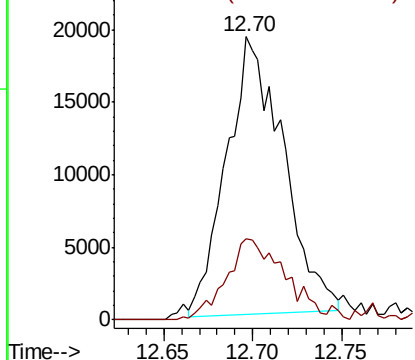


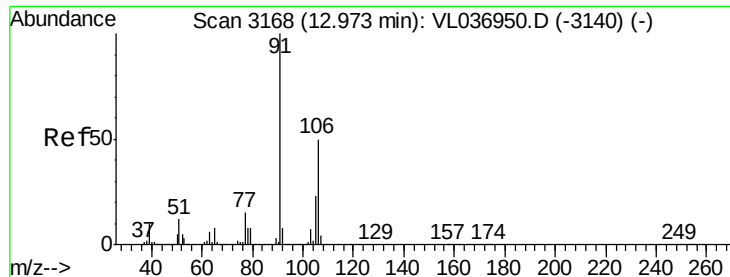
#58
Ethyl Benzene
Concen: 0.083 ppbv
RT: 12.70 min Scan# 3082
Delta R.T. 0.01 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

Tgt Ion: 91 Resp: 42634
Ion Ratio Lower Upper
91 100
106 28.7 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

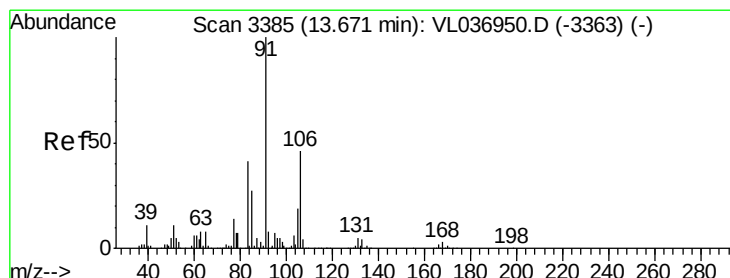
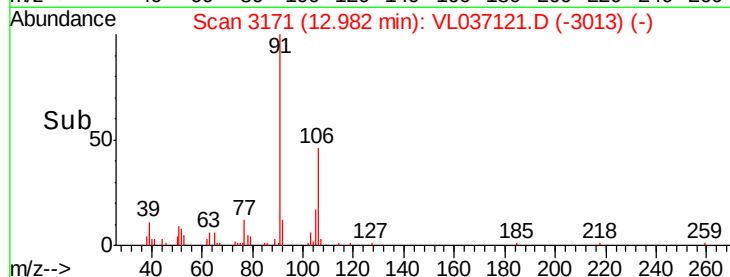
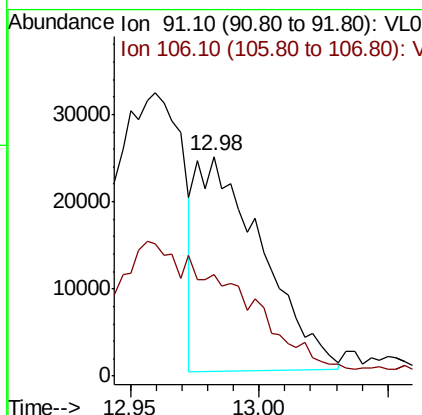
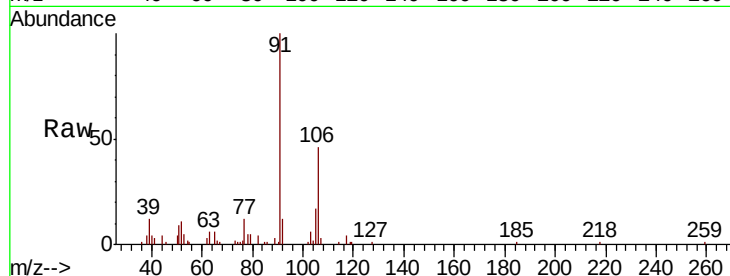




#59
m/p-Xylene
Concen: 0.103 ppbv
RT: 12.98 min Scan# 3171
Delta R.T. 0.01 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

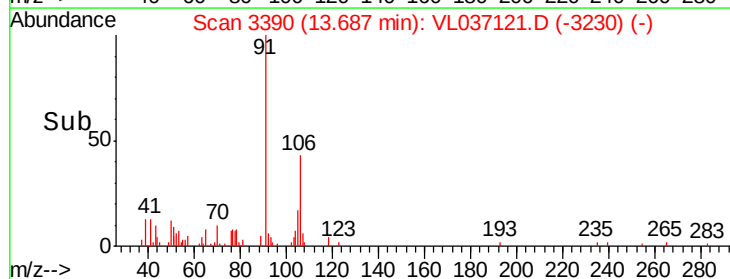
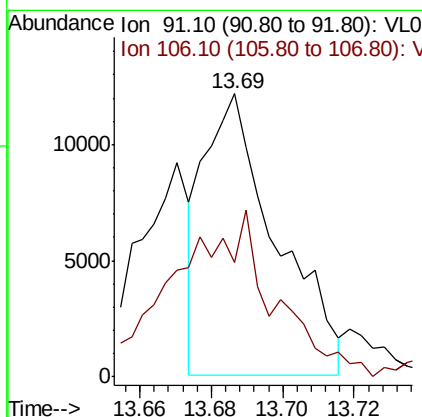
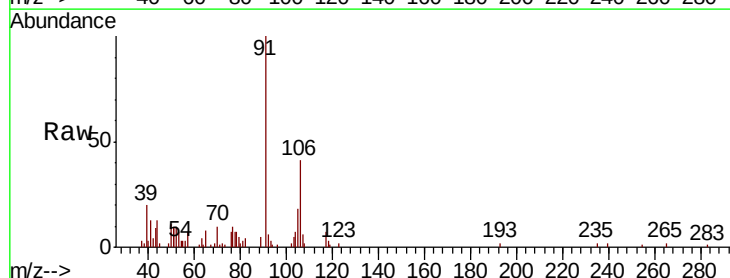
Instrument :
MSVOA_L
ClientSampled :

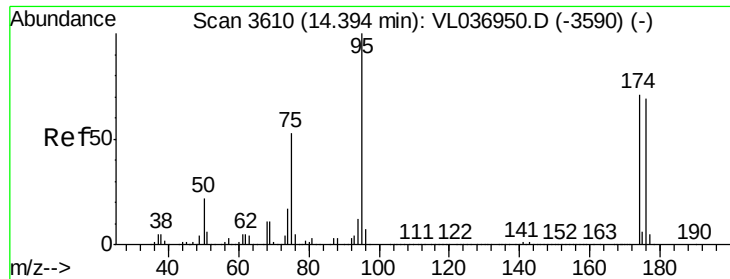
Tot Ion: 91 Resp: 43582
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#



#60
o-Xylene
Concen: 0.043 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. 0.02 min
Lab File: VL037121.D
Acq: 3 Jun 2021 4:12

Tgt Ion: 91 Resp: 17147
Ion Ratio Lower Upper
91 100
106 86.5 23.4 70.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.576 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. 0.01 min

Lab File: VL037121.D

Acq: 3 Jun 2021 4:12

Instrument :

MSVOA_L

ClientSampleId :

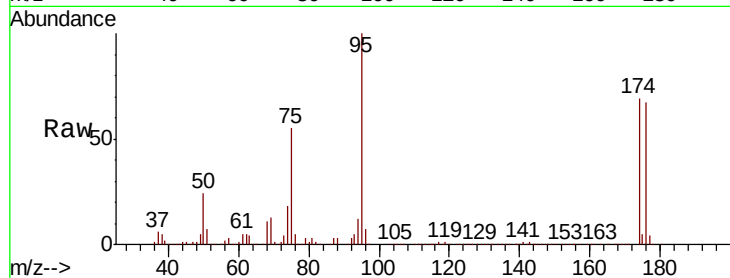
Tot Ion: 95 Resp: 2605535

Ion Ratio Lower Upper

95 100

174 77.0 58.4 87.6

175 5.9 4.4 6.6



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

