

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032222\
 Data File : VL038712.D
 Acq On : 23 Mar 2022 10:29
 Operator : SY/AP
 Sample : N1961-16DL2 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P79DL2

Quant Time: Mar 24 02:53:23 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	651426	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	1718977	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1472320	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1126482	9.98	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

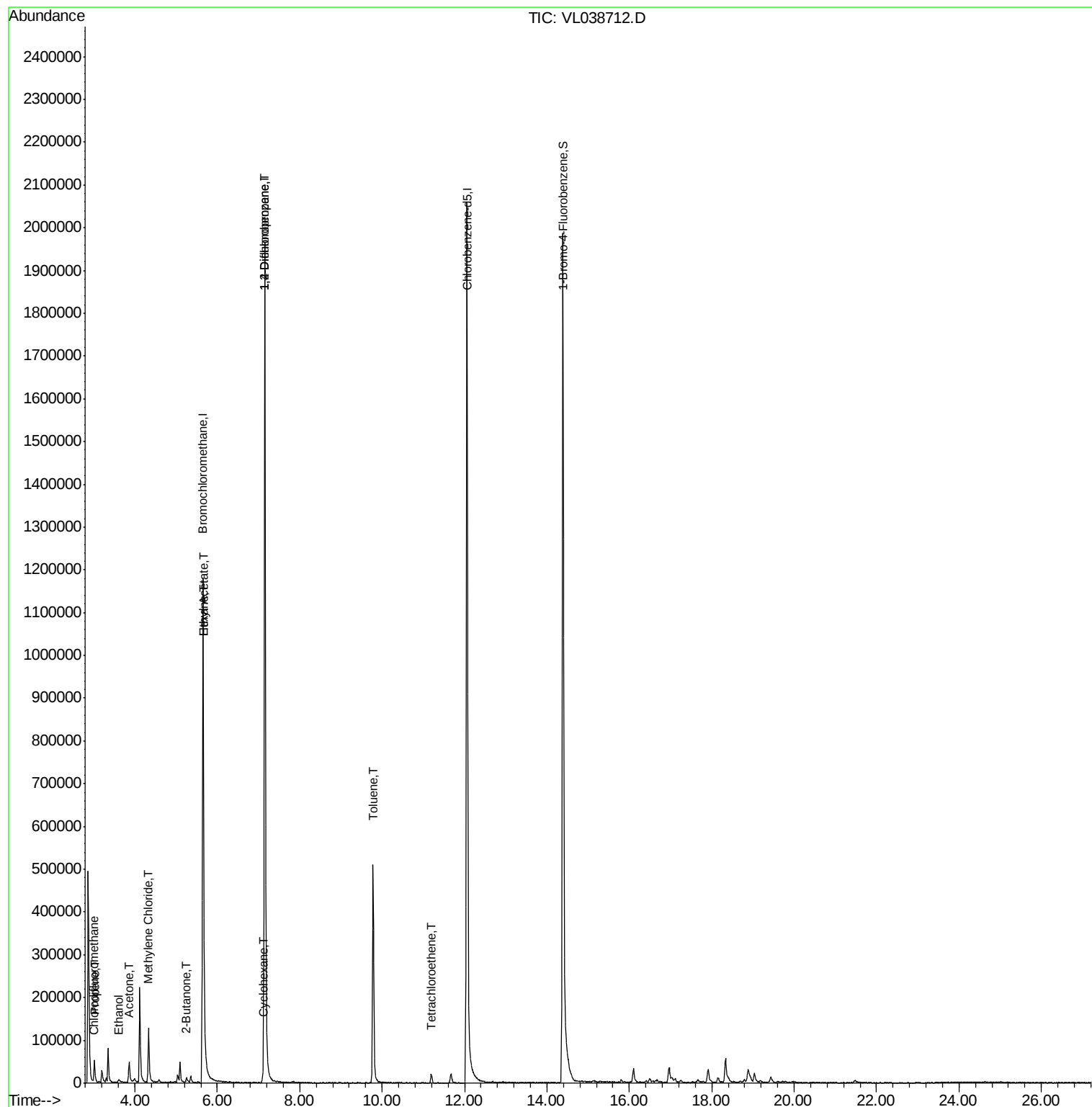
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	6093	0.089	ppbv	97
9) Propene	3.02	41	14792	0.445	ppbv #	76
13) Ethanol	3.61	45	7367	2.011	ppbv	73
15) Acetone	3.85	43	41049	0.730	ppbv	92
20) Methylene Chloride	4.33	84	53691	2.268	ppbv	96
25) Ethyl Acetate	5.67	43	22336	0.158	ppbv #	86
26) Hexane	5.67	57	25991	0.410	ppbv #	44
30) Cyclohexane	7.11	84	4369	0.079	ppbv #	1
34) 2-Butanone	5.24	43	5020	0.074	ppbv #	1
39) 1,2-Dichloropropane	7.15	63	408577	7.878	ppbv #	30
52) Tetrachloroethene	11.19	164	2215	0.046	ppbv #	78
53) Toluene	9.78	91	436876	3.065	ppbv	99

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

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Quant Time: Mar 24 02:53:23 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 10:29

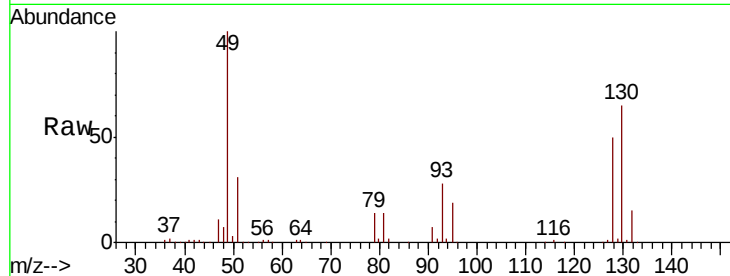
Tot Ion: 49 Resp: 651426

Ion Ratio Lower Upper

49 100

128 55.5 26.2 78.6

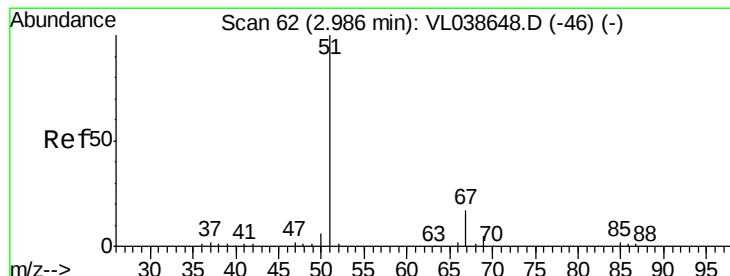
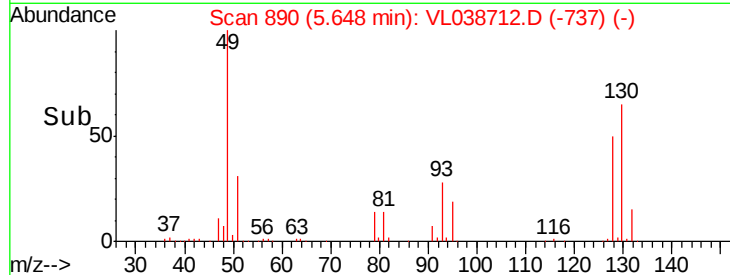
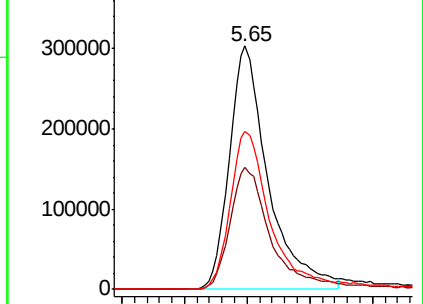
130 71.0 33.7 101.1



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



#3

Chlorodifluoromethane

Concen: 0.089 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL038712.D

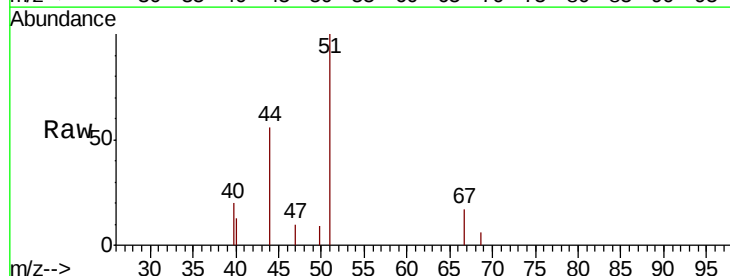
Acq: 23 Mar 2022 10:29

Tgt Ion: 51 Resp: 6093

Ion Ratio Lower Upper

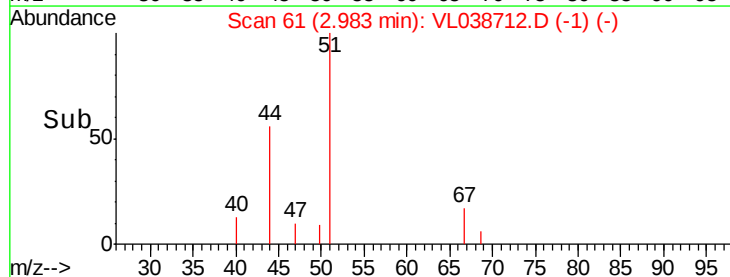
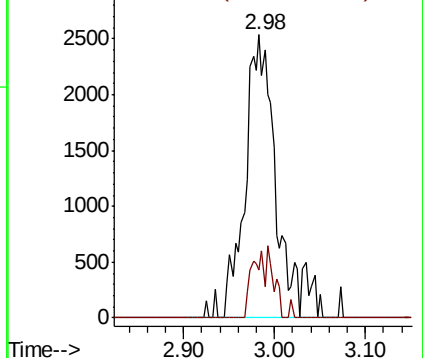
51 100

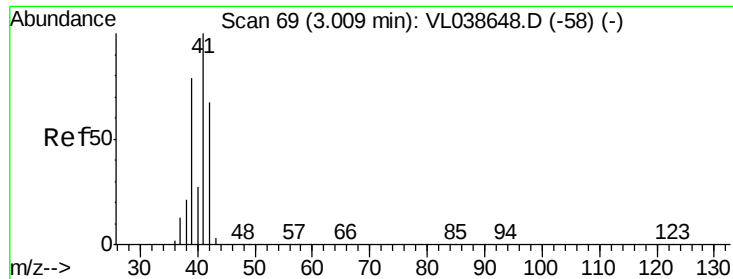
67 16.3 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.445 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P79DL2

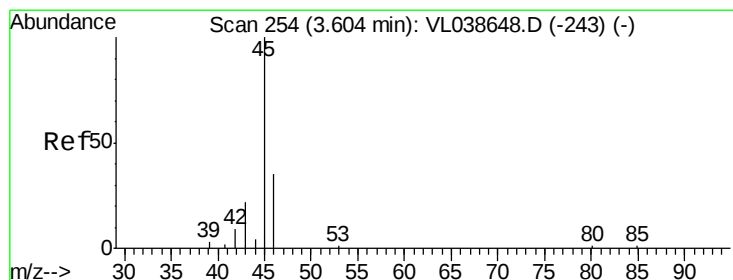
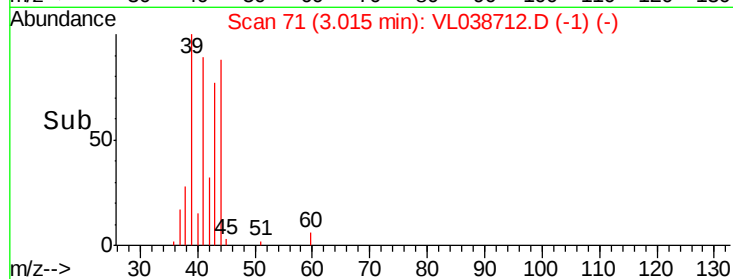
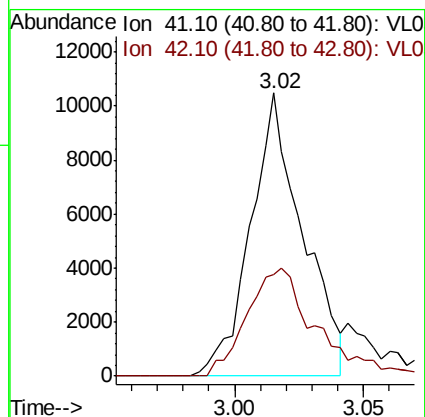
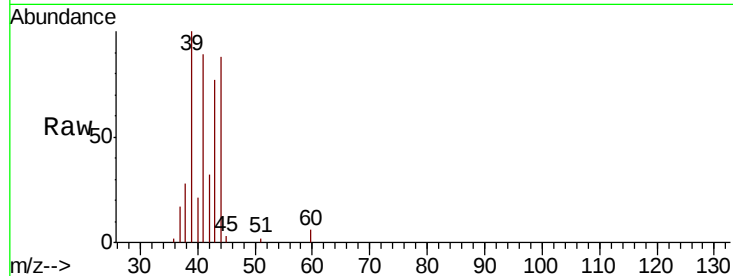
Acq: 23 Mar 2022 10:29

Tot Ion: 41 Resp: 14792

Ion Ratio Lower Upper

41 100

42 50.6 56.2 84.4#



#13

Ethanol

Concen: 2.011 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL038712.D

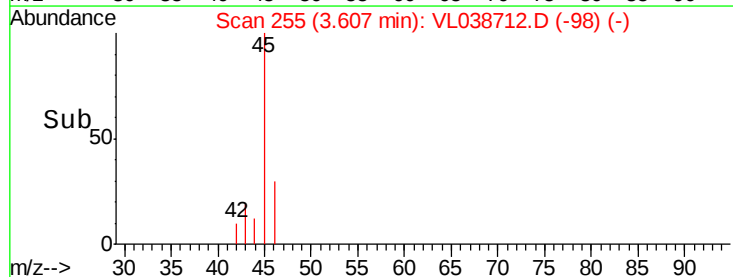
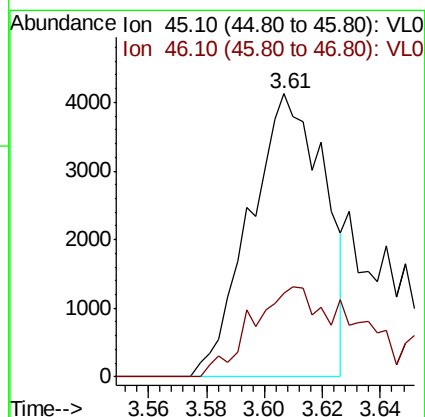
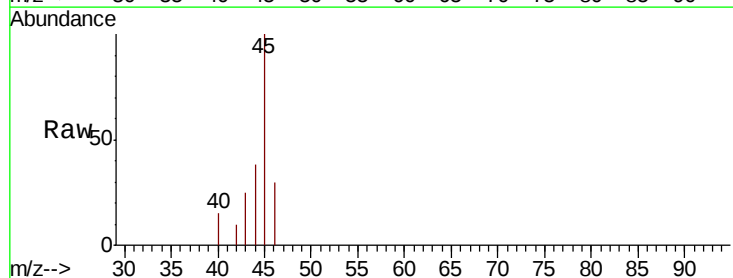
Acq: 23 Mar 2022 10:29

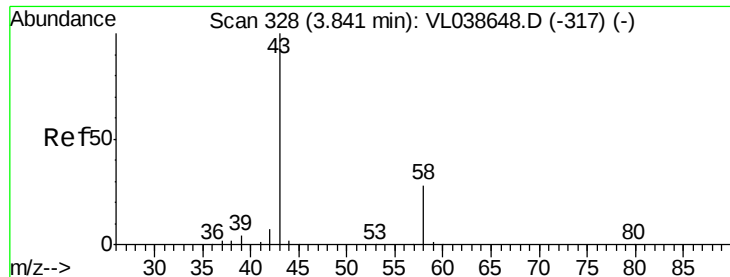
Tgt Ion: 45 Resp: 7367

Ion Ratio Lower Upper

45 100

46 53.8 15.1 60.5





#15

Acetone

Concen: 0.730 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

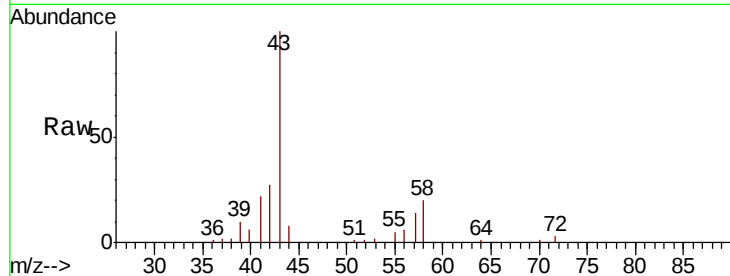
Acq: 23 Mar 2022 10:29

Tot Ion: 43 Resp: 41049

Ion Ratio Lower Upper

43 100

58 25.0 23.3 34.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

20000

15000

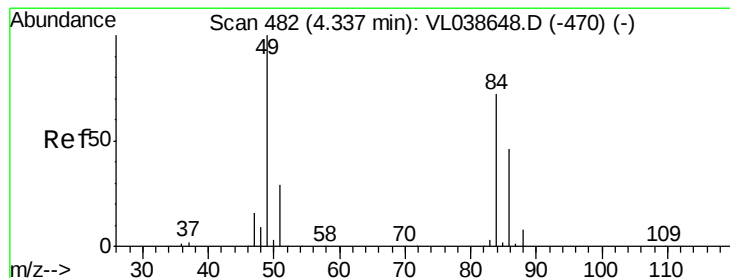
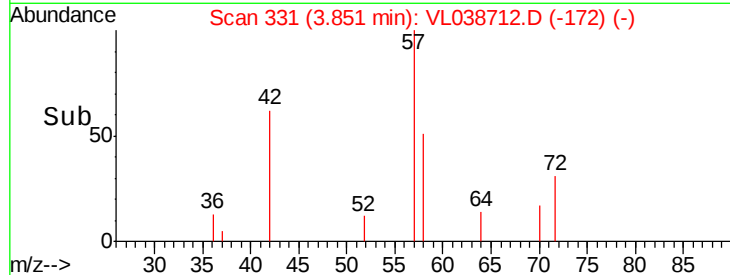
10000

5000

0

Time-->

3.80 3.85 3.90 3.95



#20

Methylene Chloride

Concen: 2.268 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL038712.D

Acq: 23 Mar 2022 10:29

Tgt Ion: 84 Resp: 53691

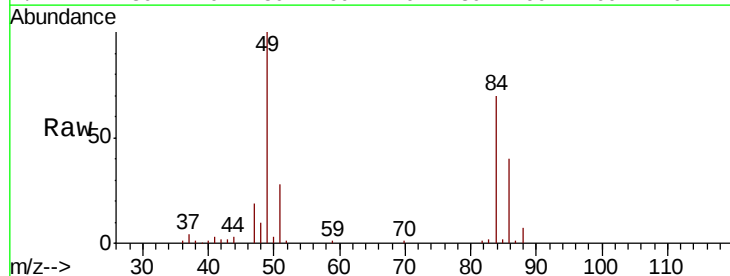
Ion Ratio Lower Upper

84 100

49 142.2 111.2 166.8

51 39.9 32.8 49.2

86 57.9 51.4 77.0



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

60000

50000

40000

30000

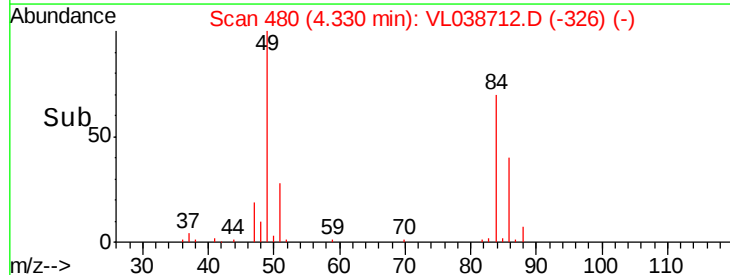
20000

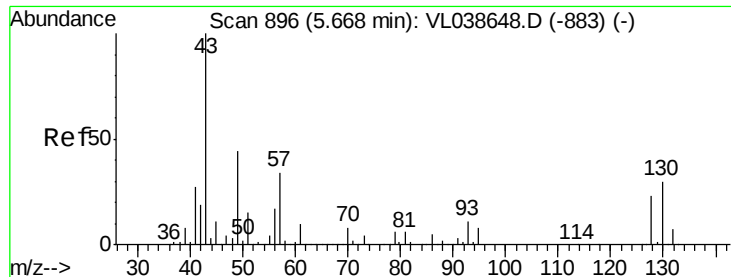
10000

0

Time-->

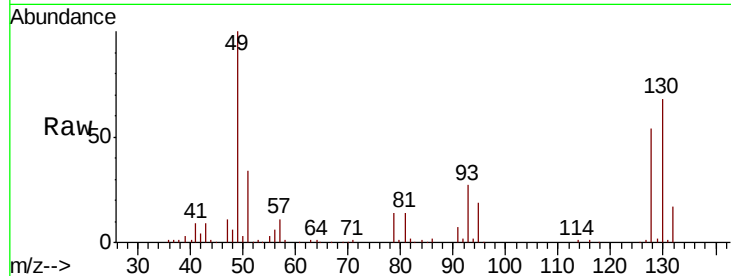
4.30 4.35





#25
Ethyl Acetate
Concen: 0.158 ppbv
RT: 5.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP79DL2
Acq: 23 Mar 2022 10:29

Tot Ion:	43	Resp:	22336
Ion	Ratio	Lower	Upper
43	100		
45	5.0	8.2	12.4#
61	3.8	8.3	12.5#
70	3.5	5.6	8.4#



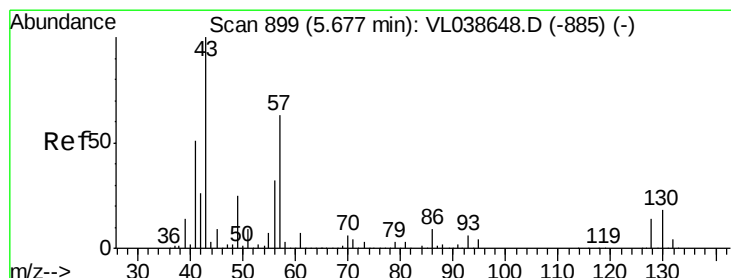
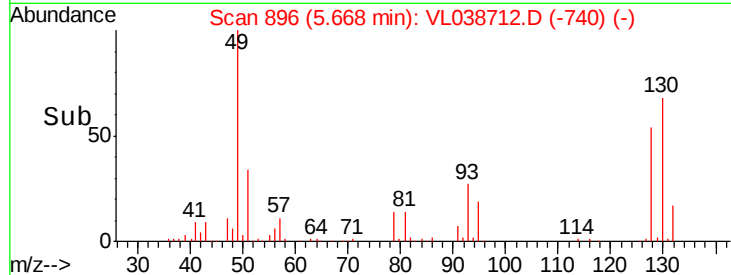
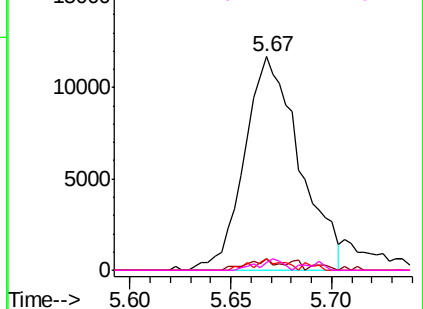
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

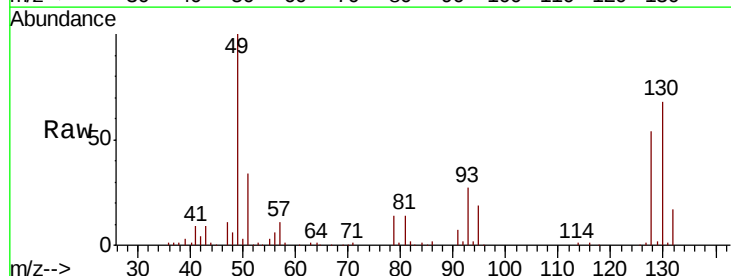
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.410 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL038712.D
Acq: 23 Mar 2022 10:29

Tgt Ion:	57	Resp:	25991
Ion	Ratio	Lower	Upper
57	100		
41	98.2	67.0	100.4
43	95.5	184.2	276.2#
56	60.4	42.6	64.0



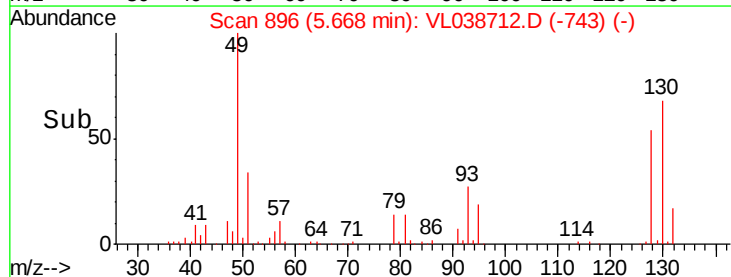
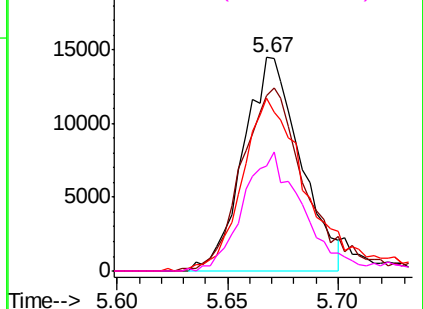
Abundance

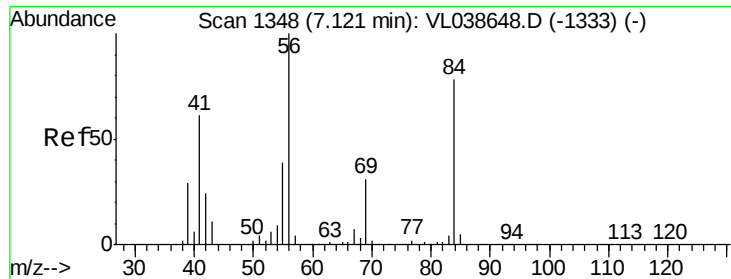
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

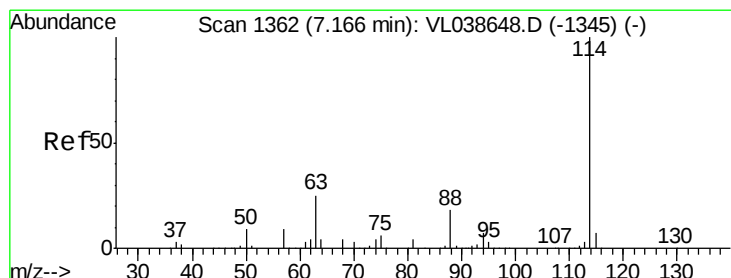
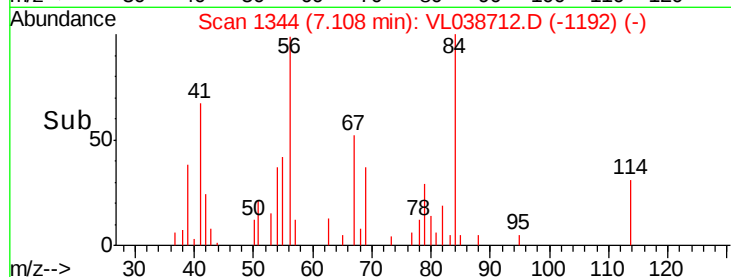
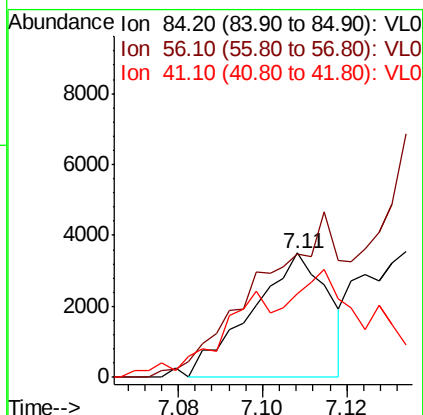
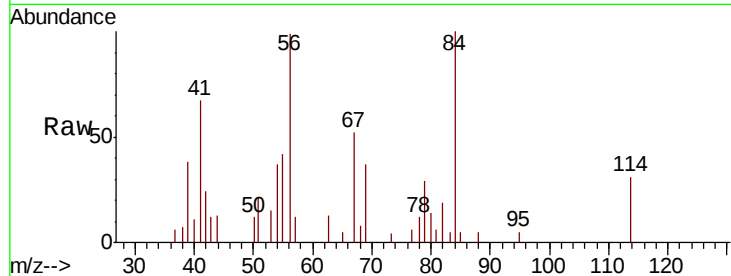
Ion 56.10 (55.80 to 56.80): VL0





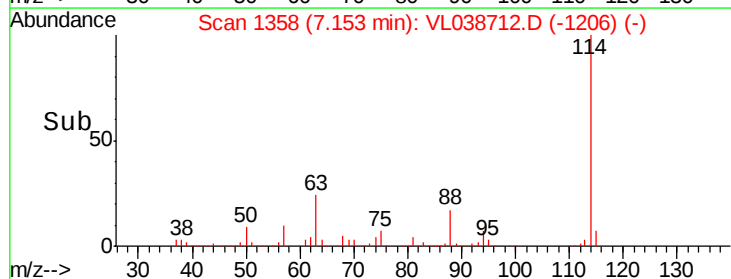
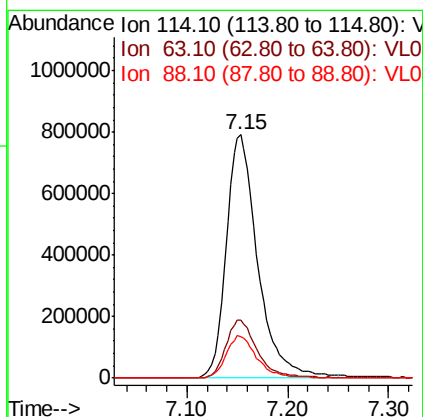
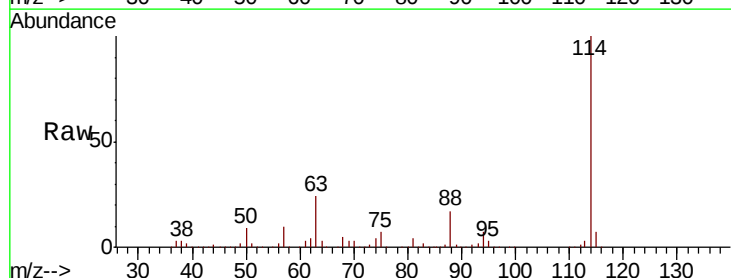
#30
Cvclohexane
Concen: 0.079 ppbv
RT: 7.11 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 10:29

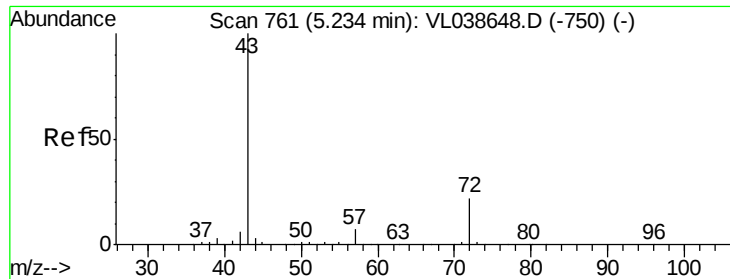
Tot Ion: 84 Resp: 4369
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4#
41 161.4 61.8 92.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL038712.D
Acq: 23 Mar 2022 10:29

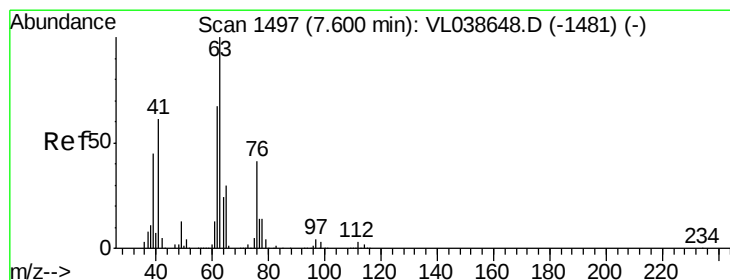
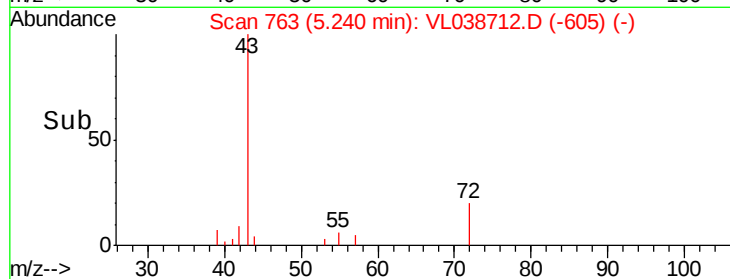
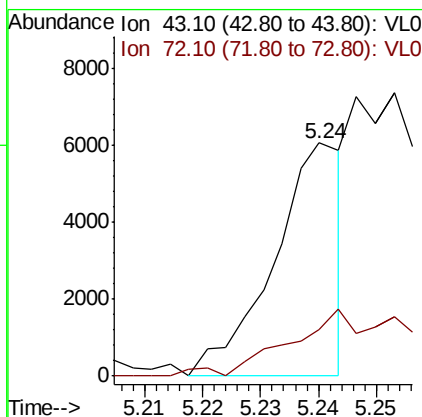
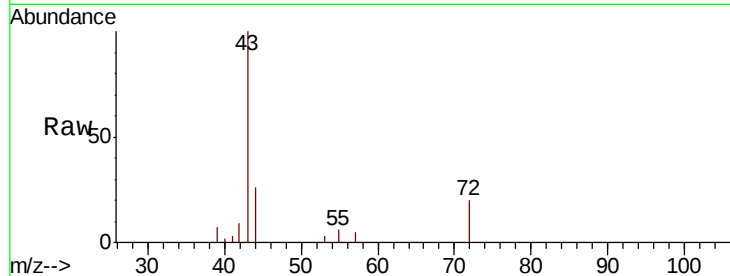
Tgt Ion: 114 Resp: 1718977
Ion Ratio Lower Upper
114 100
63 24.2 19.4 29.0
88 17.4 13.9 20.9





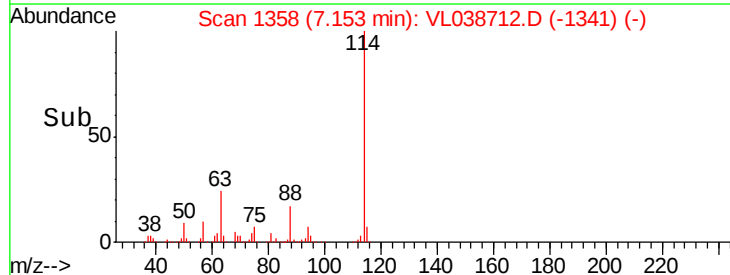
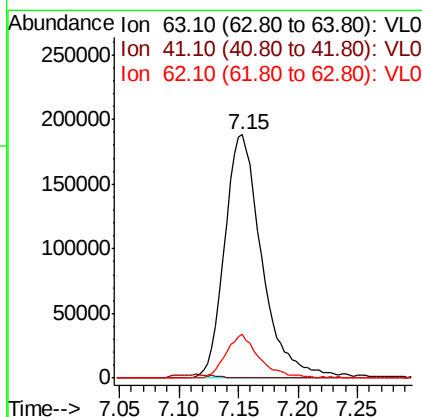
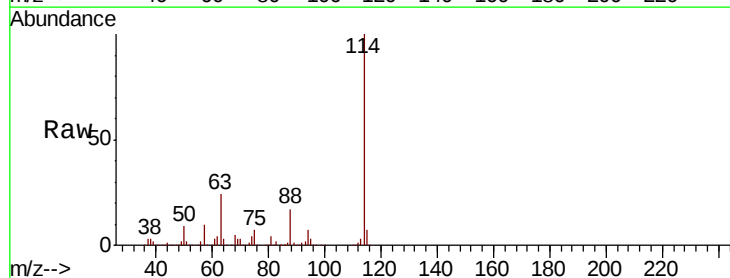
#34
2-Butanone
Concen: 0.074 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP79DL2
Acq: 23 Mar 2022 10:29

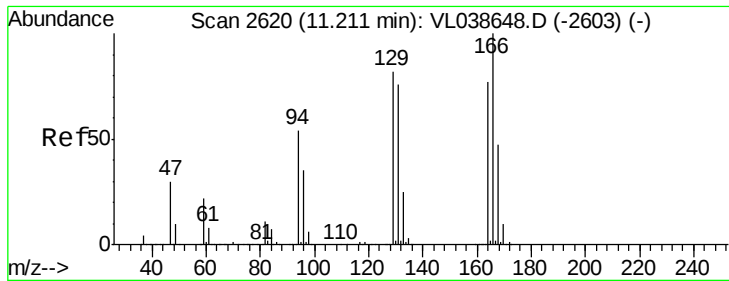
Tot Ion: 43 Resp: 5020
Ion Ratio Lower Upper
43 100
72 71.9 17.8 26.8#



#39
1,2-Dichloropropane
Concen: 7.878 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.45 min
Lab File: VL038712.D
Acq: 23 Mar 2022 10:29

Tgt Ion: 63 Resp: 408577
Ion Ratio Lower Upper
63 100
41 0.2 49.0 73.6#
62 18.0 53.9 80.9#





#52

Tetrachloroethene

Concen: 0.046 ppbv

RT: 11.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 10:29

Tot Ion: 164 Resp: 2215

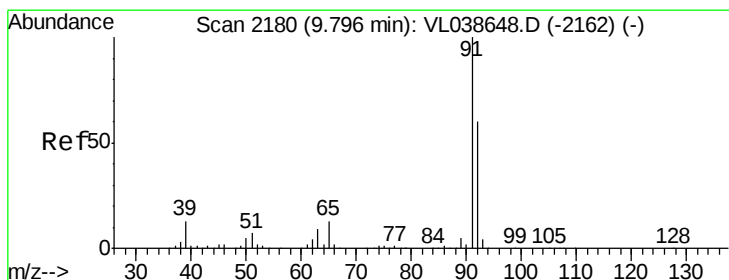
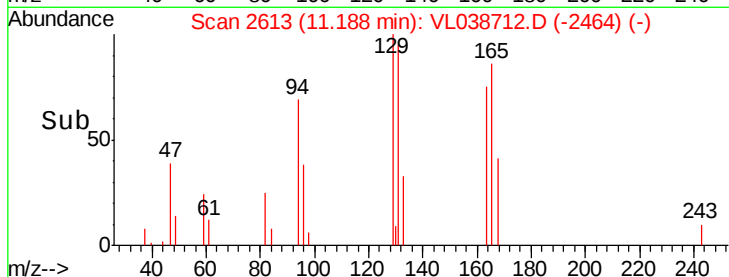
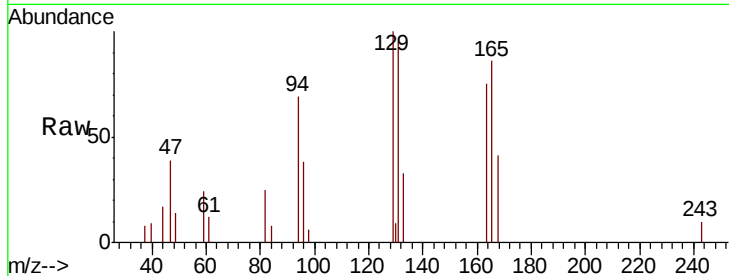
Ion Ratio Lower Upper

164 100

166 114.2 103.3 154.9

129 133.2 85.2 127.8#

131 126.0 78.3 117.5#



#53

Toluene

Concen: 3.065 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VL038712.D

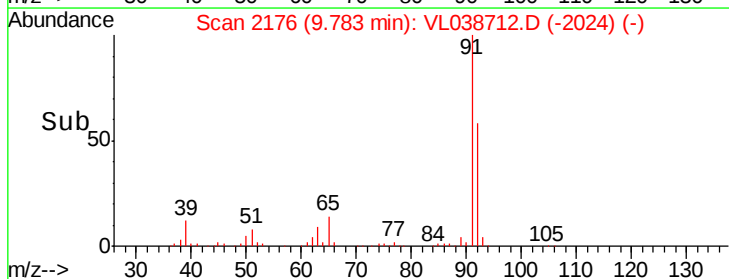
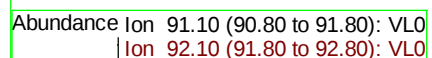
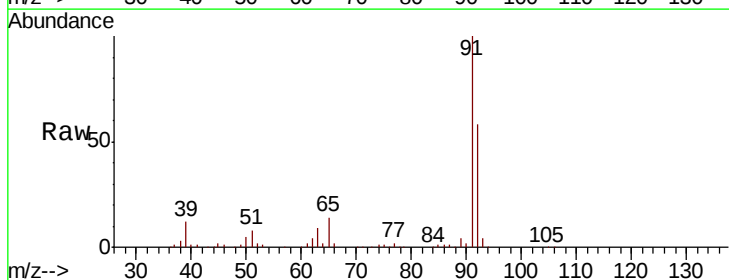
Acq: 23 Mar 2022 10:29

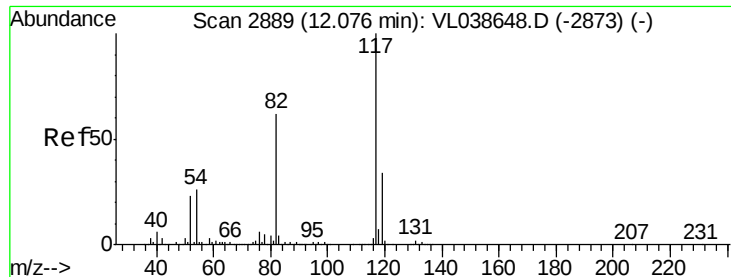
Tgt Ion: 91 Resp: 436876

Ion Ratio Lower Upper

91 100

92 59.8 48.7 73.1

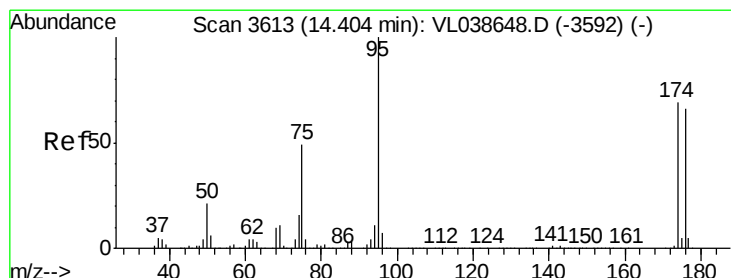
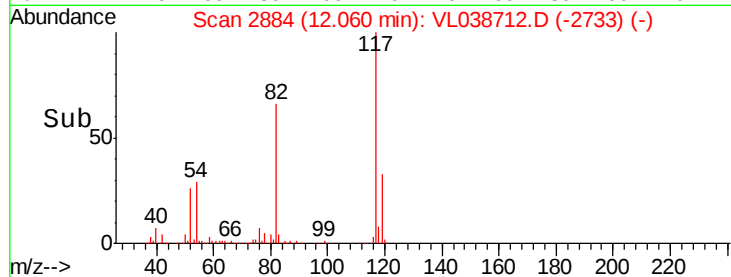
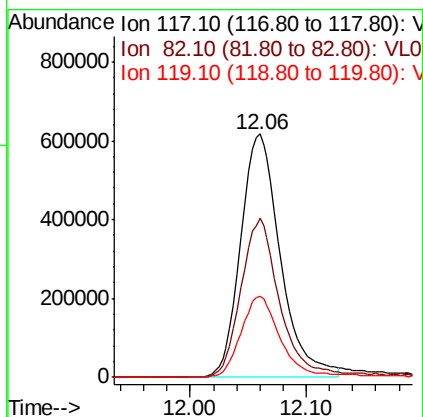
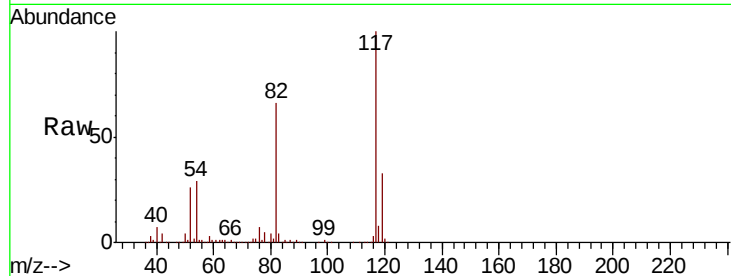




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 COP79DL2
 Acq: 23 Mar 2022 10:29

Tot Ion: 117 Resp: 1472320

Ion	Ratio	Lower	Upper
117	100		
82	66.5	51.6	77.4
119	34.8	26.9	40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.979 ppbv
 RT: 14.39 min Scan# 3608
 Delta R.T.: -0.02 min
 Lab File: VL038712.D
 Acq: 23 Mar 2022 10:29

Tgt Ion: 95 Resp: 1126482

Ion	Ratio	Lower	Upper
95	100		
174	70.2	56.1	84.1
175	4.9	4.2	6.2

