

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032222\
 Data File : VL038710.D
 Acq On : 23 Mar 2022 9:13
 Operator : SY/AP
 Sample : N1961-11DL2 44X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 02:53:06 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	700486	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	1781318	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1541266	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1140374	9.65	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

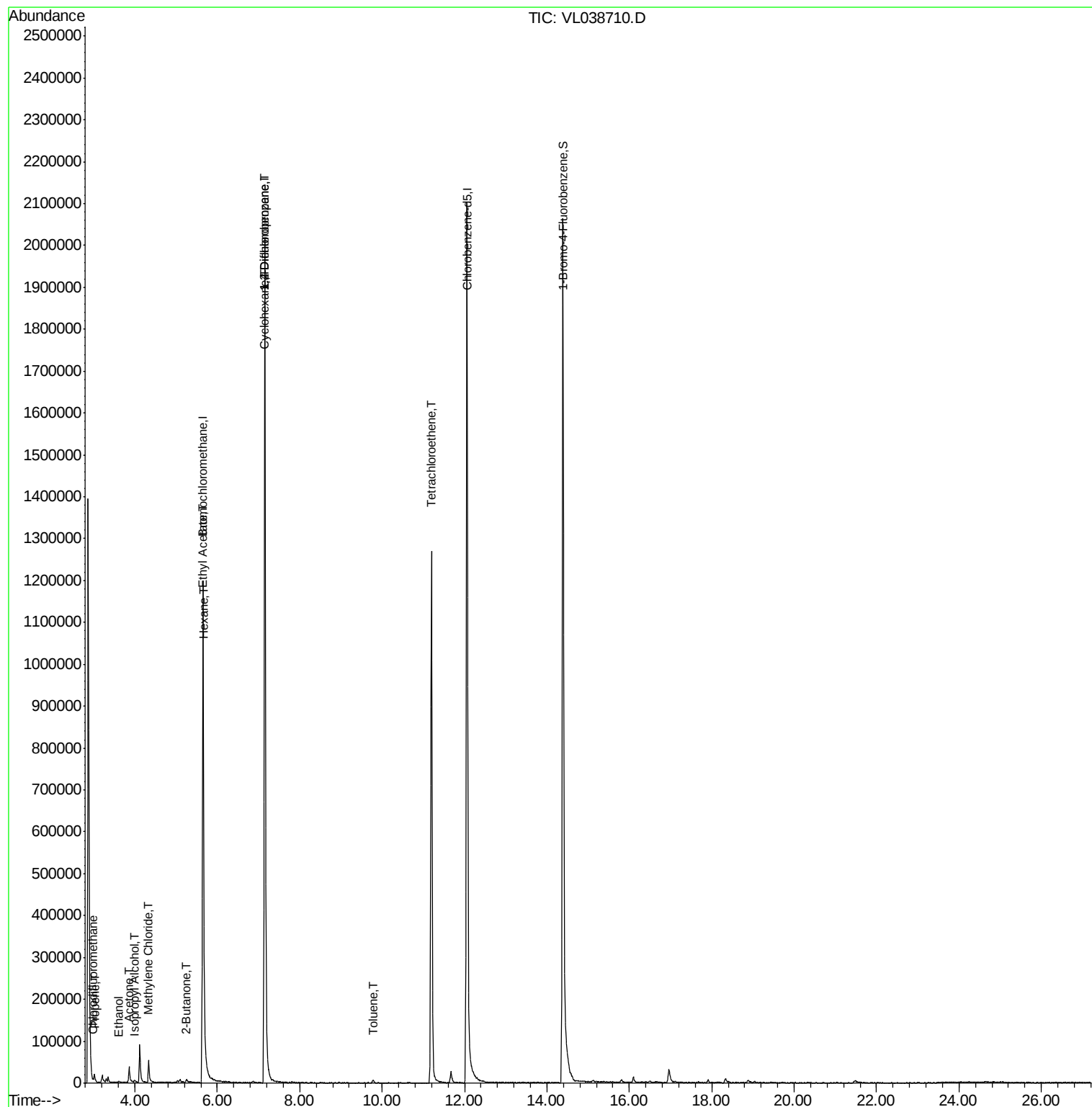
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	5873	0.079	ppbv #	92
9) Propene	3.01	41	4661	0.130	ppbv	97
13) Ethanol	3.60	45	2040	0.518	ppbv #	37
15) Acetone	3.86	43	23897	0.395	ppbv	99
19) Isopropyl Alcohol	3.98	45	1186	0.035	ppbv #	91
20) Methylene Chloride	4.33	84	20671	0.812	ppbv	90
25) Ethyl Acetate	5.66	43	5051	0.033	ppbv #	78
26) Hexane	5.67	57	8166	0.120	ppbv #	43
30) Cyclohexane	7.13	84	2098	0.035	ppbv #	1
34) 2-Butanone	5.25	43	4777	0.068	ppbv #	53
39) 1,2-Dichloropropane	7.15	63	430062	8.002	ppbv #	29
52) Tetrachloroethene	11.20	164	342868	6.815	ppbv	97
53) Toluene	9.78	91	5879	0.040	ppbv	97

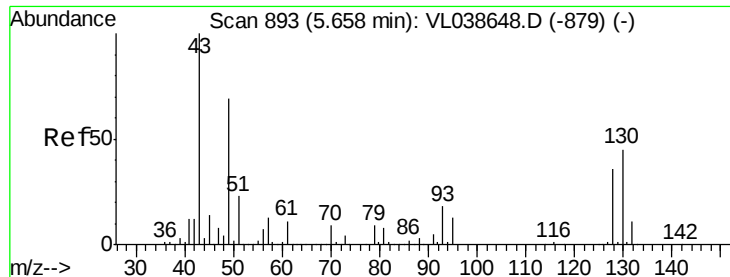
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032222\
Data File : VL038710.D
Acq On : 23 Mar 2022 9:13
Operator : SY/AP
Sample : N1961-11DL2 44X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 24 02:53:06 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 9:13

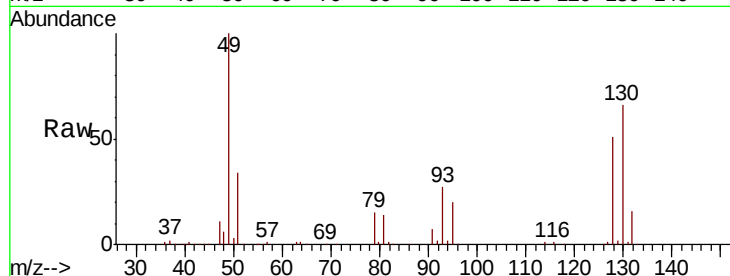
Tot Ion: 49 Resp: 700486

Ion Ratio Lower Upper

49 100

128 52.7 26.2 78.6

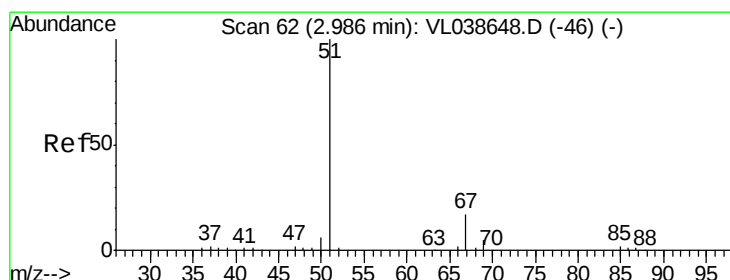
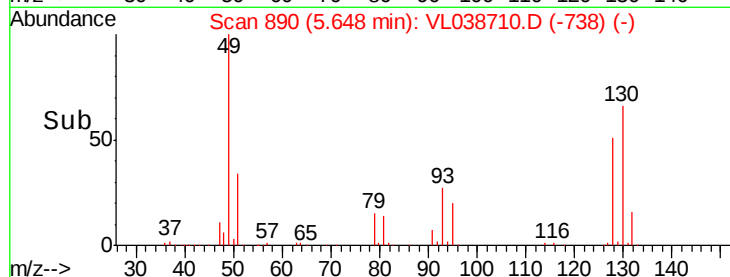
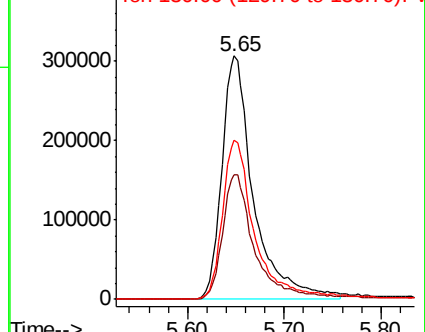
130 69.0 33.7 101.1



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: 0.079 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL038710.D

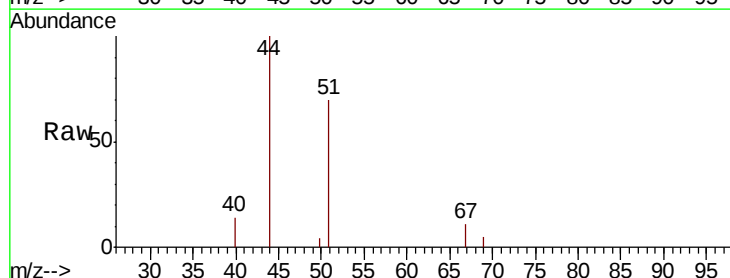
Acq: 23 Mar 2022 9:13

Tgt Ion: 51 Resp: 5873

Ion Ratio Lower Upper

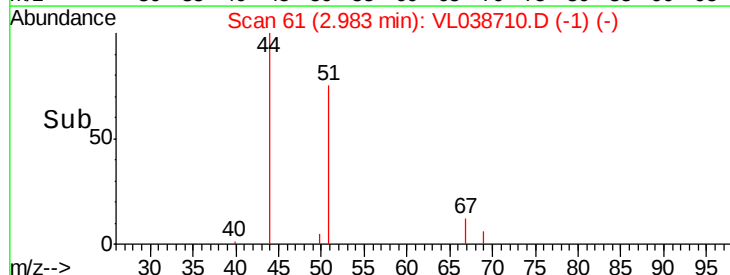
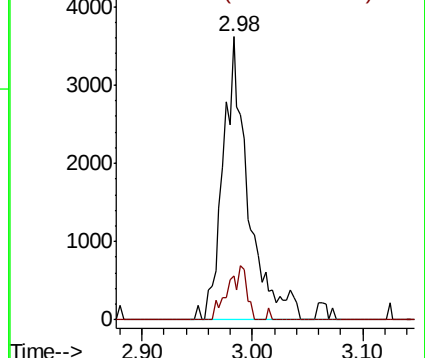
51 100

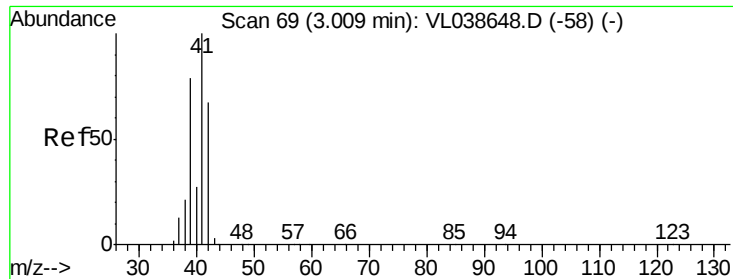
67 13.9 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

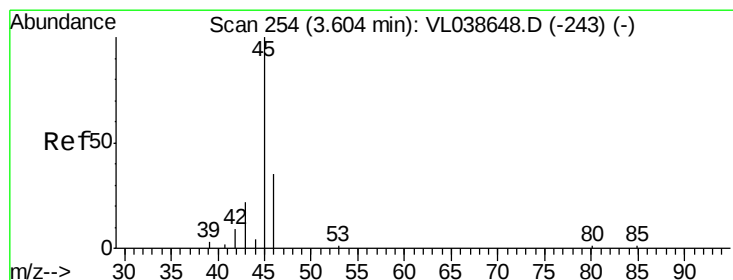
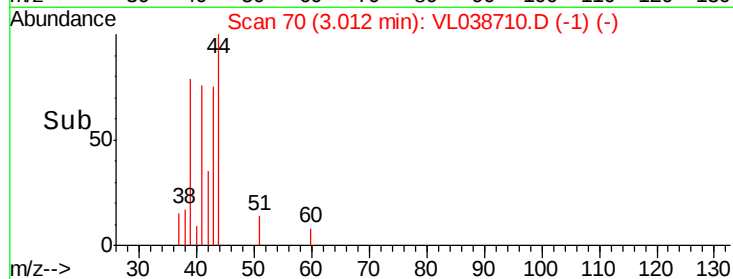
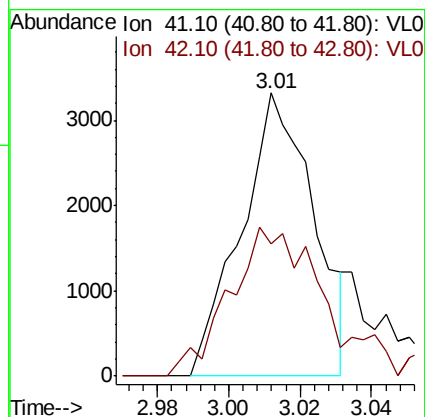
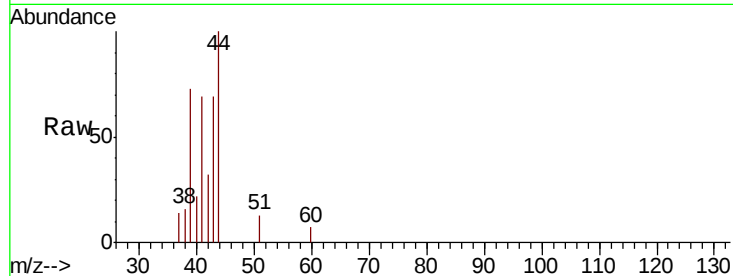
Ion 67.00 (66.70 to 67.70): VL0





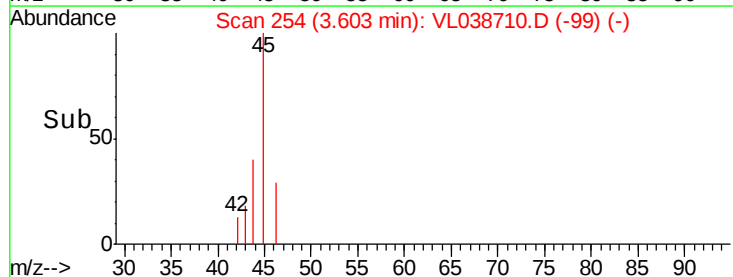
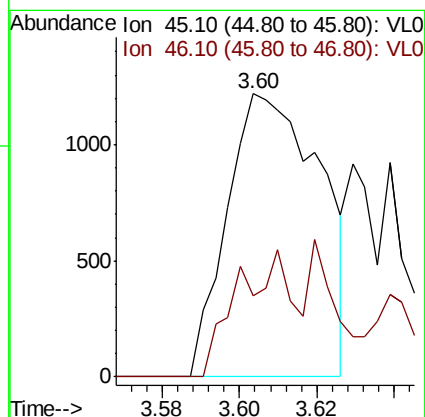
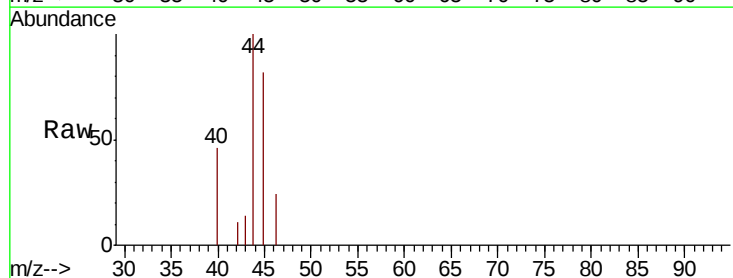
#9
 Propene
 Concen: 0.130 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 9:13

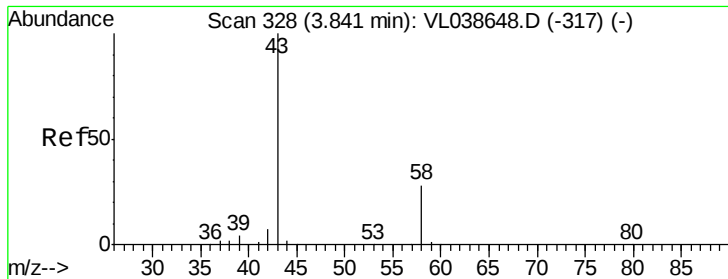
Tot Ion: 41 Resp: 4661
 Ion Ratio Lower Upper
 41 100
 42 72.7 56.2 84.4



#13
 Ethanol
 Concen: 0.518 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VL038710.D
 Acq: 23 Mar 2022 9:13

Tgt Ion: 45 Resp: 2040
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.1 60.5#





#15

Acetone

Concen: 0.395 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

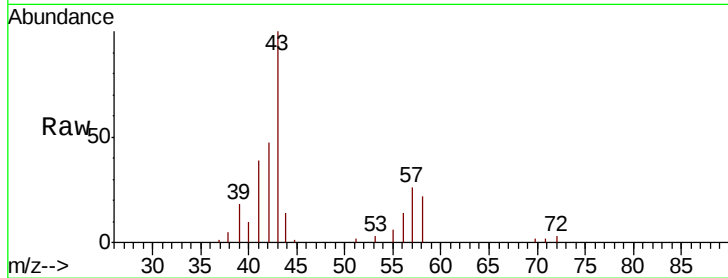
Acq: 23 Mar 2022 9:13

Tot Ion: 43 Resp: 23897

Ion Ratio Lower Upper

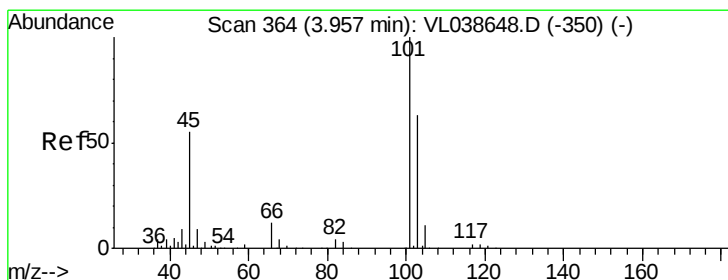
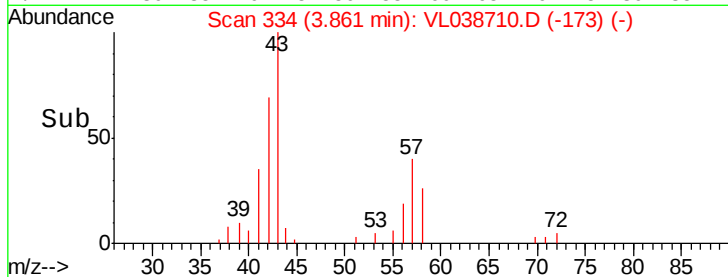
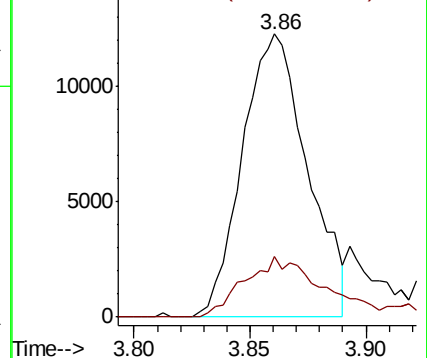
43 100

58 29.6 23.3 34.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.035 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL038710.D

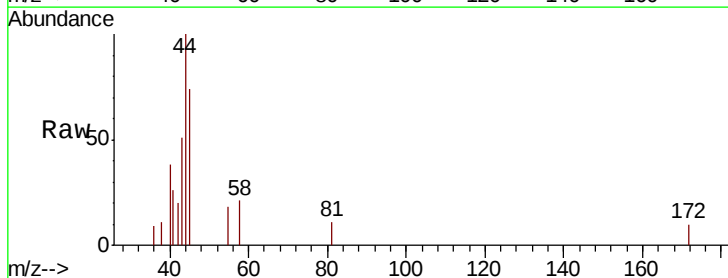
Acq: 23 Mar 2022 9:13

Tgt Ion: 45 Resp: 1186

Ion Ratio Lower Upper

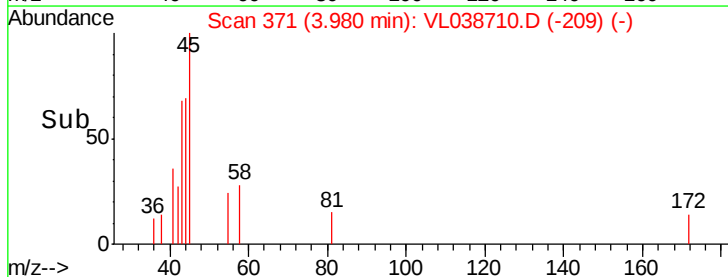
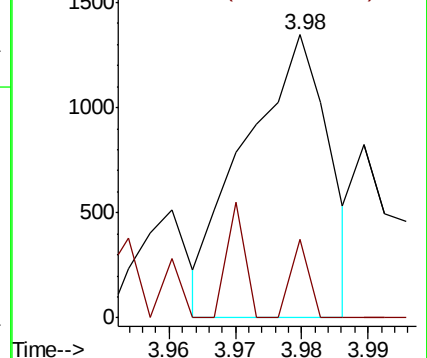
45 100

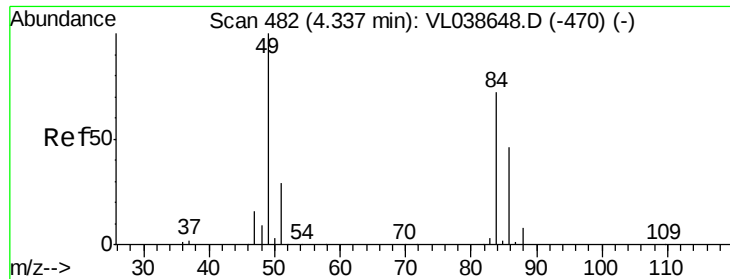
58 0.0 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

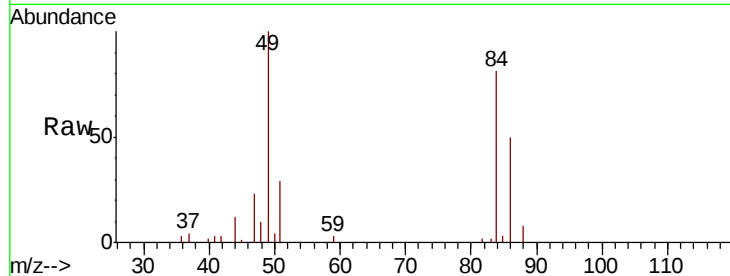
Ion 58.10 (57.80 to 58.80): VL0



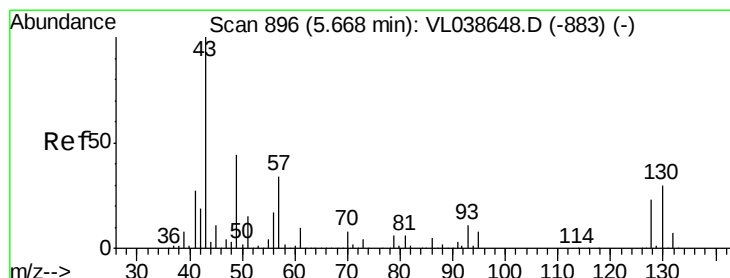
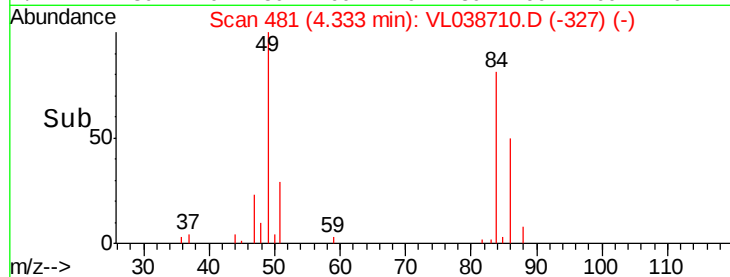
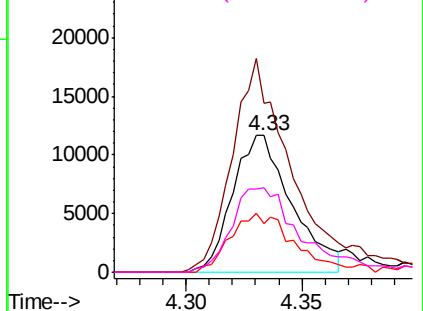


#20
Methylene Chloride
Concen: 0.812 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 9:13

Tot Ion:	84	Resp:	20671
Ion	Ratio	Lower	Upper
84	100		
49	122.0	111.2	166.8
51	35.5	32.8	49.2
86	61.4	51.4	77.0

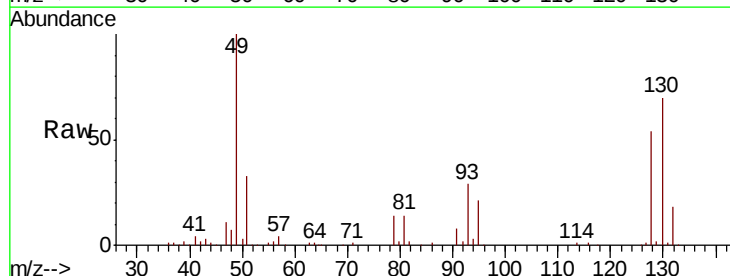


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

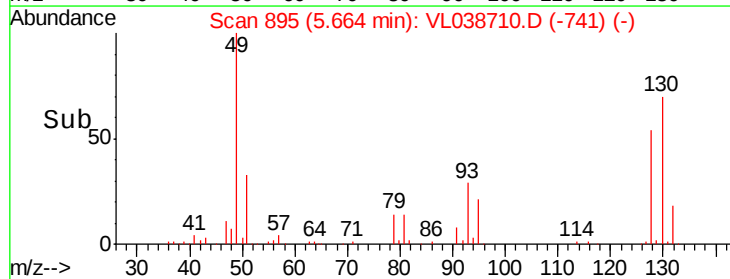
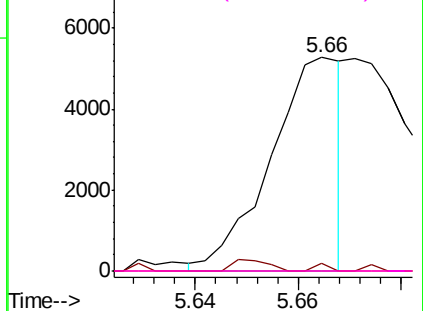


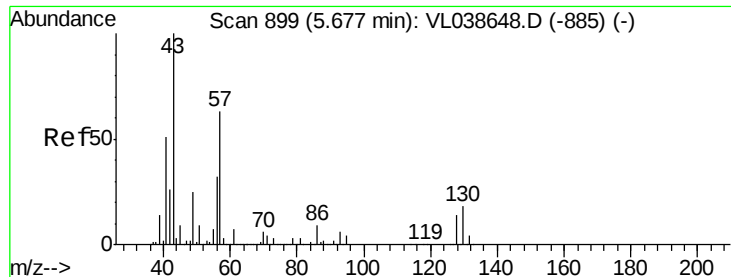
#25
Ethyl Acetate
Concen: 0.033 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL038710.D
Acq: 23 Mar 2022 9:13

Tgt Ion:	43	Resp:	5051
Ion	Ratio	Lower	Upper
43	100		
45	3.4	8.2	12.4#
61	0.0	8.3	12.5#
70	0.0	5.6	8.4#



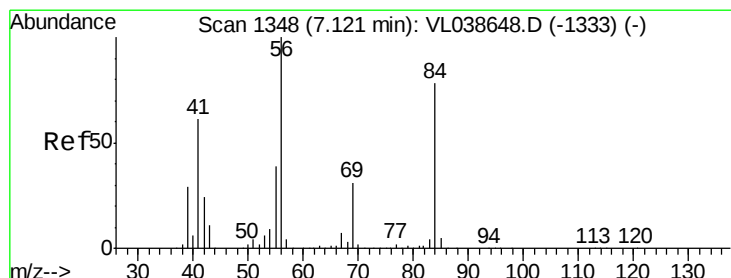
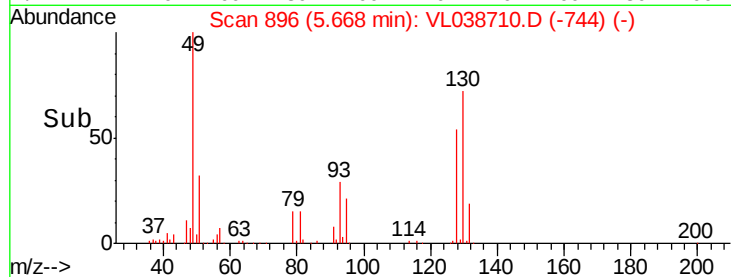
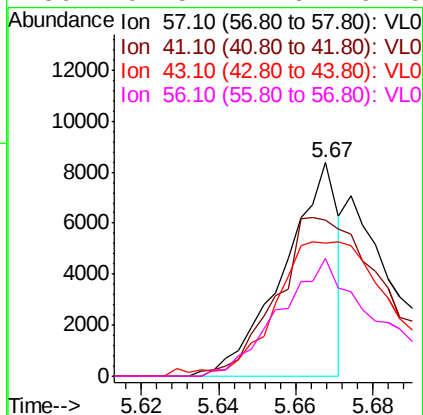
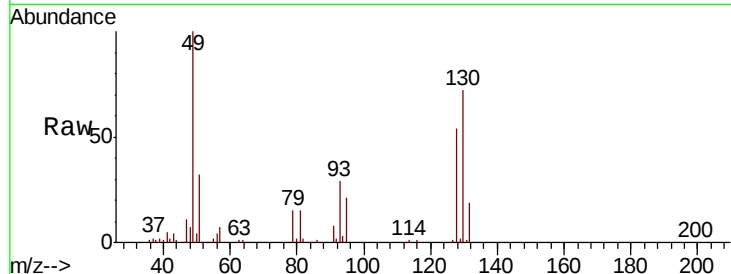
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





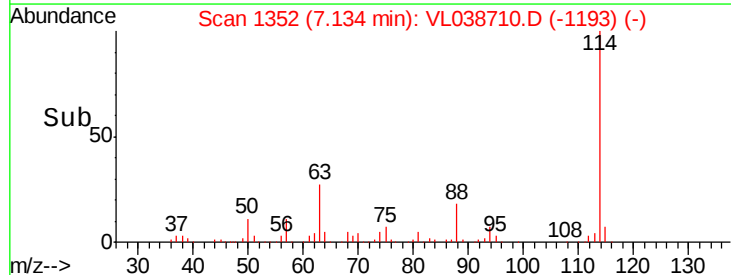
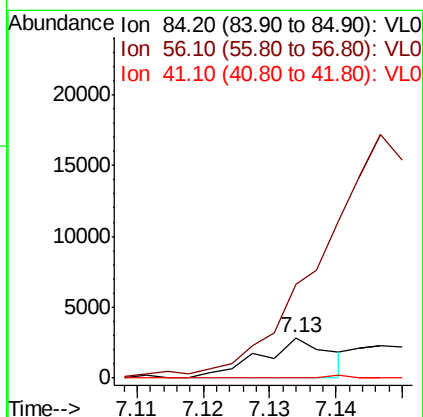
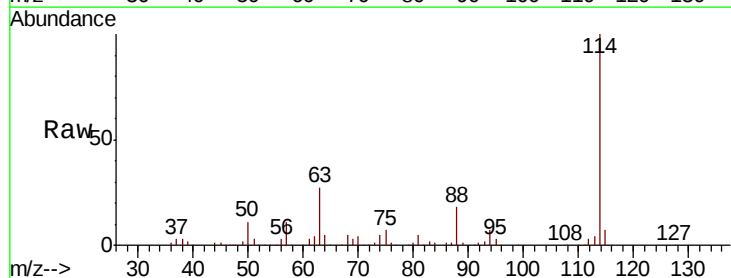
#26
Hexane
Concen: 0.120 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 9:13

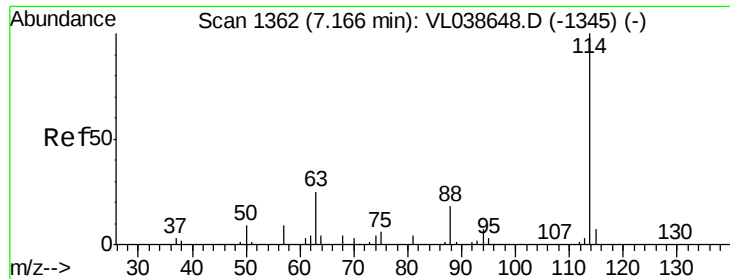
Tot Ion:	57	Resp:	8166
Ion	Ratio	Lower	Upper
57	100		
41	158.7	67.0	100.4#
43	155.0	184.2	276.2#
56	101.5	42.6	64.0#



#30
Cyclohexane
Concen: 0.035 ppbv
RT: 7.13 min Scan# 1352
Delta R.T.: 0.01 min
Lab File: VL038710.D
Acq: 23 Mar 2022 9:13

Tgt Ion:	84	Resp:	2098
Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.2	162.4#
41	3.1	61.8	92.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 9:13

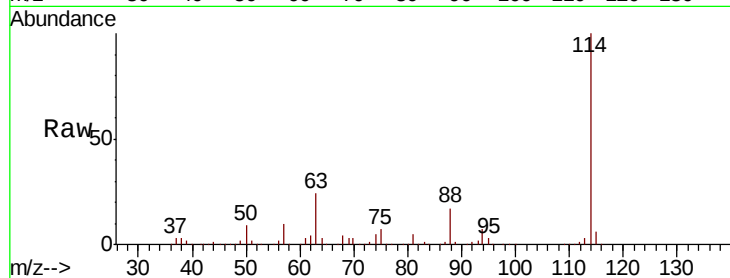
Tot Ion:114 Resp: 1781318

Ion Ratio Lower Upper

114 100

63 24.5 19.4 29.0

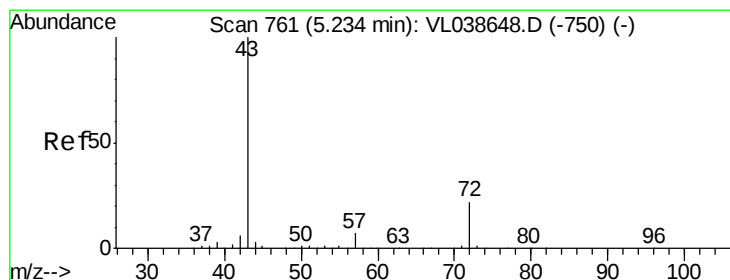
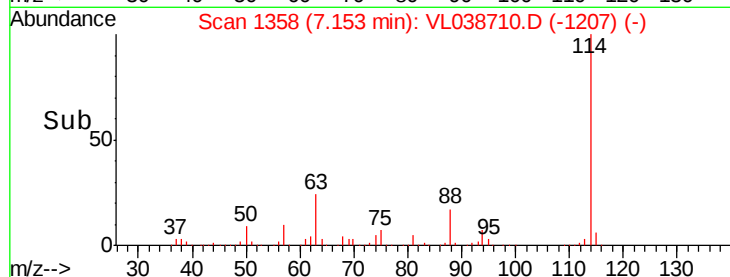
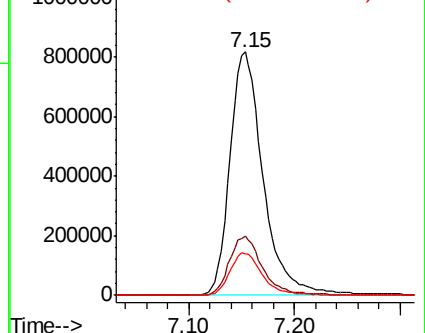
88 17.5 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.068 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL038710.D

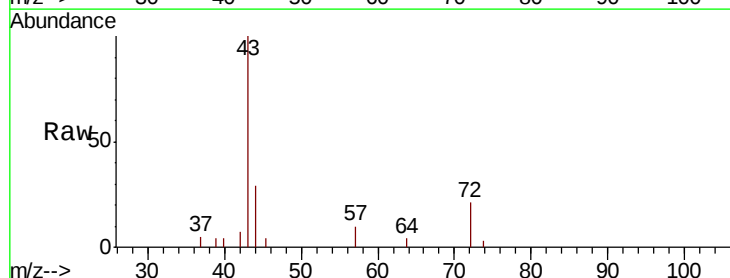
Acq: 23 Mar 2022 9:13

Tgt Ion: 43 Resp: 4777

Ion Ratio Lower Upper

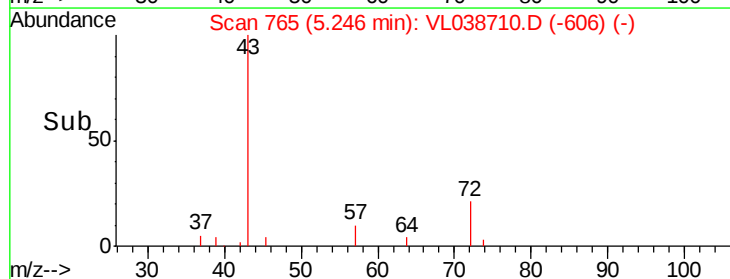
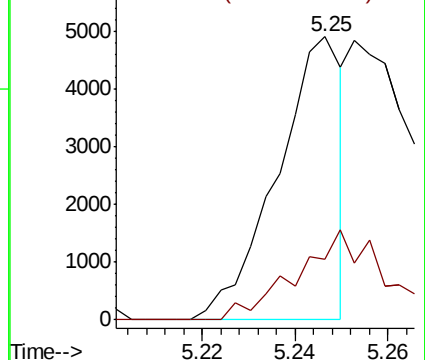
43 100

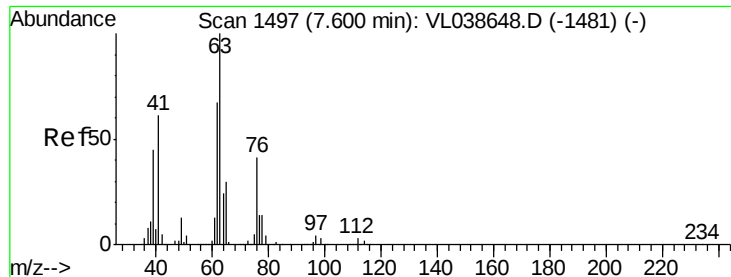
72 0.0 17.8 26.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

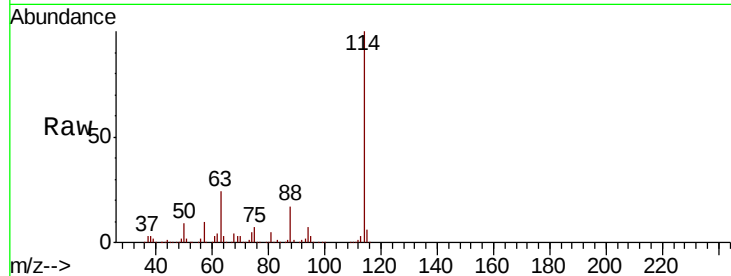
Ion 72.10 (71.80 to 72.80): VL0



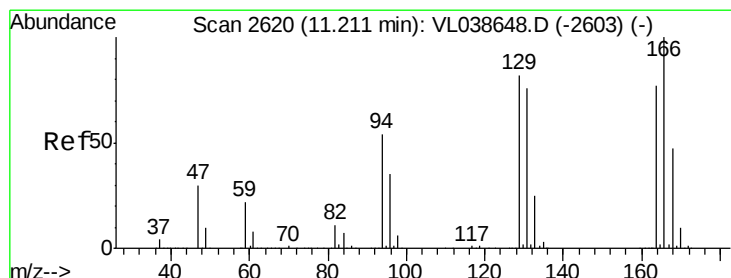
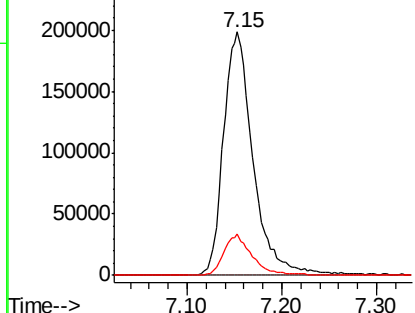
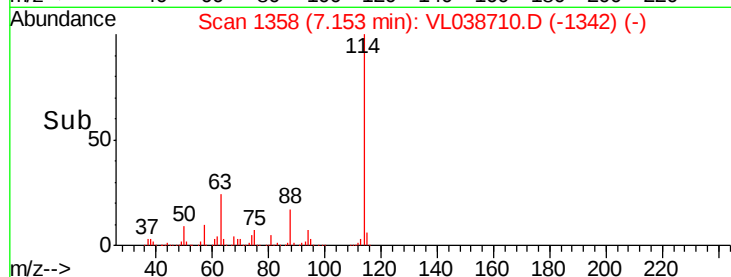


#39
 1,2-Dichloropropane
 Concen: 8.002 ppbv
 RT: 7.15
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 9:13

Tot Ion	63	Resp	430062
Ion	Ratio	Lower	Upper
63	100		
41	0.1	49.0	73.6#
62	16.9	53.9	80.9#

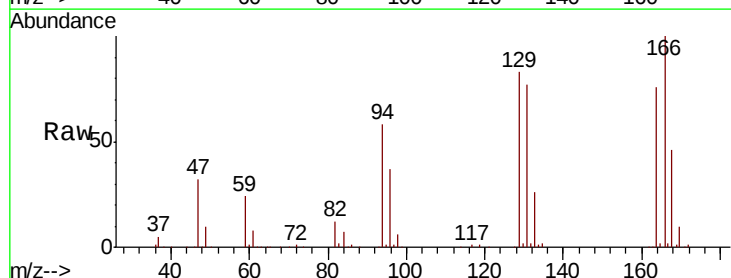


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

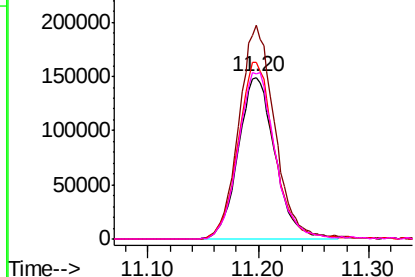
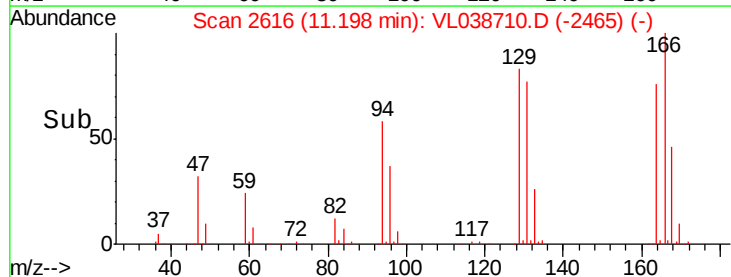


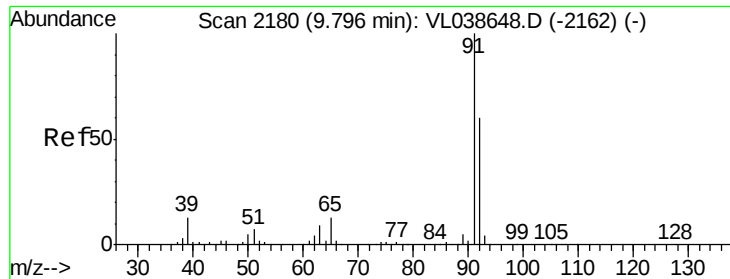
#52
 Tetrachloroethene
 Concen: 6.815 ppbv
 RT: 11.20 min Scan# 2616
 Delta R.T. -0.01 min
 Lab File: VL038710.D
 Acq: 23 Mar 2022 9:13

Tgt Ion	164	Resp	342868
Ion	Ratio	Lower	Upper
164	100		
166	132.0	103.3	154.9
129	109.3	85.2	127.8
131	102.3	78.3	117.5



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 165.90 (165.60 to 166.60): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.040 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

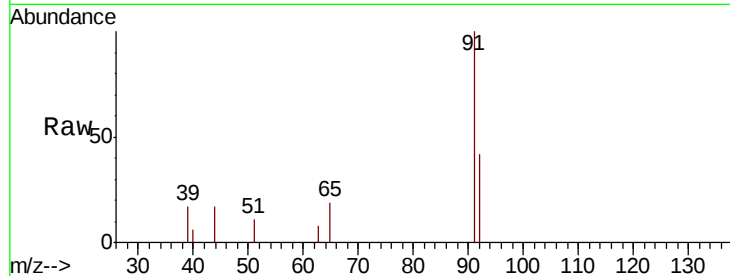
Acq: 23 Mar 2022 9:13

Tot Ion: 91 Resp: 5879

Ion Ratio Lower Upper

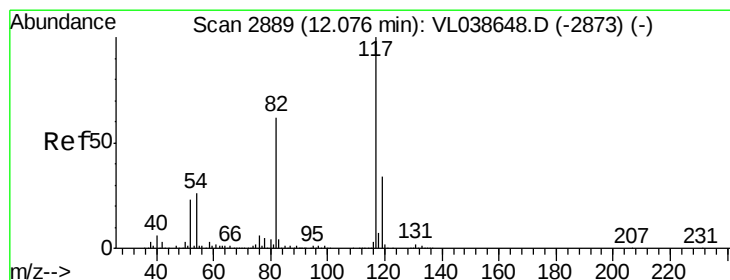
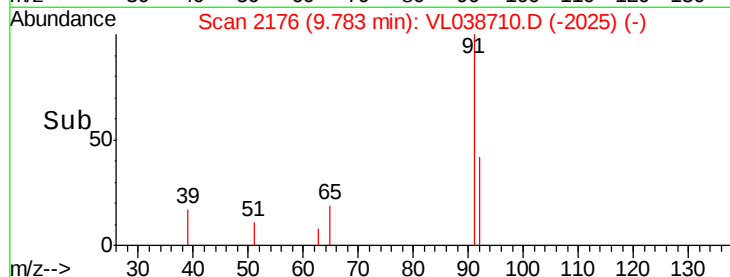
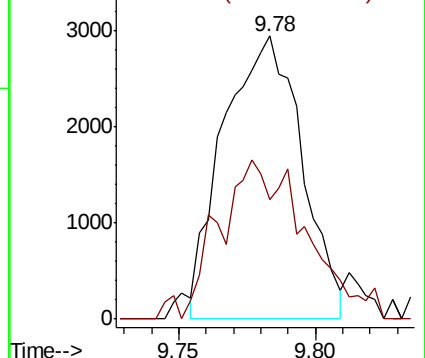
91 100

92 63.3 48.7 73.1



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: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL038710.D

Acq: 23 Mar 2022 9:13

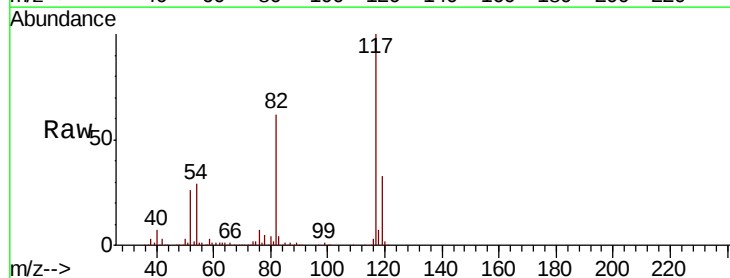
Tgt Ion: 117 Resp: 1541266

Ion Ratio Lower Upper

117 100

82 66.3 51.6 77.4

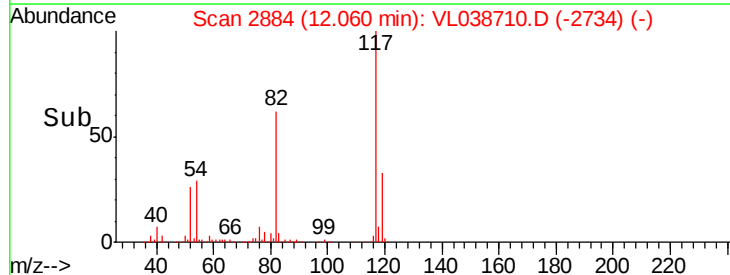
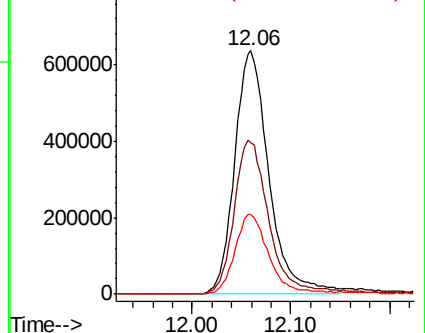
119 33.3 26.9 40.3

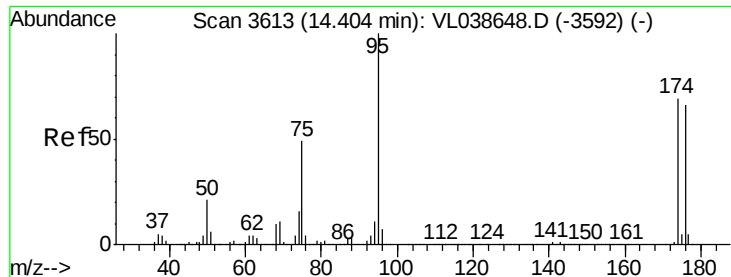


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.651 ppbv

RT: 14.39 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 9:15

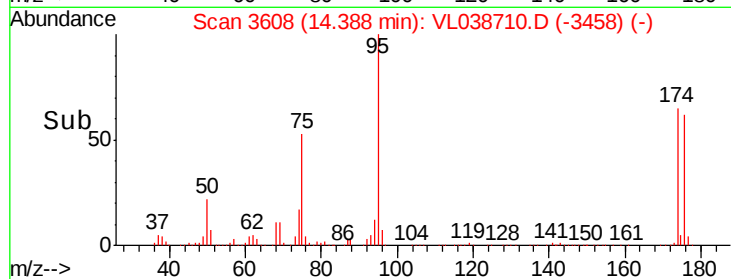
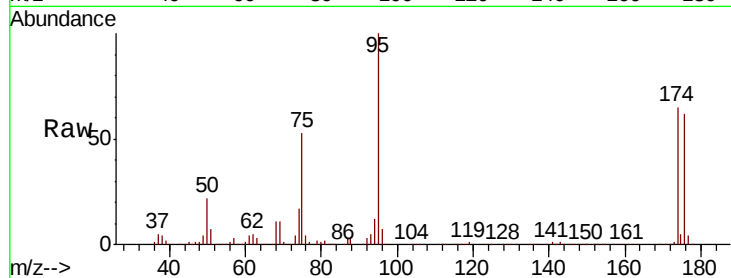
Tot Ion: 95 Resp: 1140374

Ion Ratio Lower Upper

95 100

174 71.9 56.1 84.1

175 5.1 4.2 6.2



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

