

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
 Data File : VL038693.D
 Acq On : 22 Mar 2022 21:03
 Operator : SY/AP
 Sample : N1961-13DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P76DL

Quant Time: Mar 23 04:15:26 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	837441	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2269918	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	1980998	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1453935	9.57	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

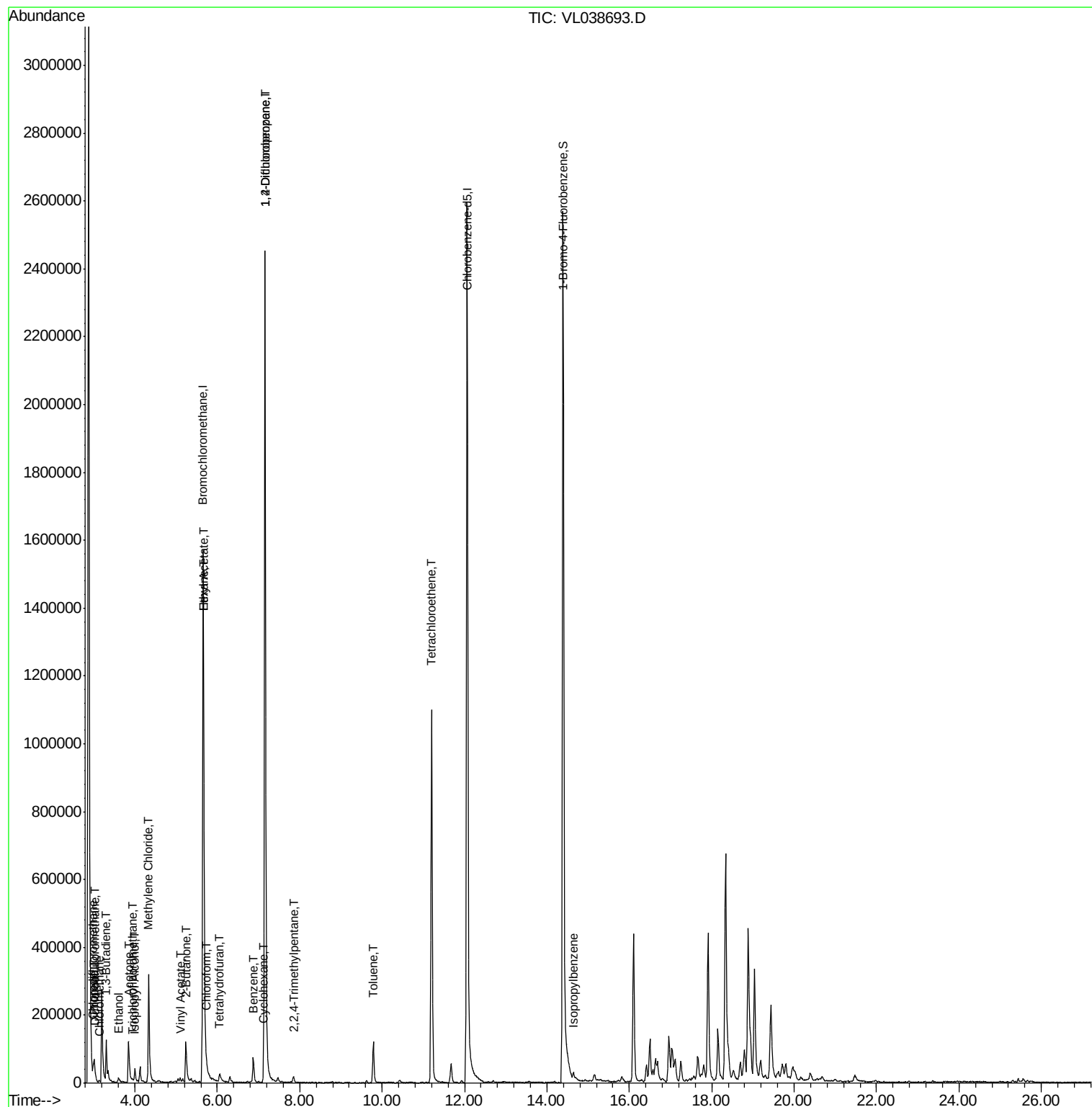
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	5158	0.05	ppbv	97
3) Chlorodifluoromethane	2.98	51	50924	0.58	ppbv	97
4) Chloromethane	3.13	50	3303	0.07	ppbv	96
9) Propene	3.01	41	29519	0.69	ppbv	97
11) Trichlorofluoromethane	3.94	101	2487	0.03	ppbv	92
13) Ethanol	3.60	45	10199	2.17	ppbv #	36
15) Acetone	3.84	43	154266	2.13	ppbv #	79
16) 1,3-Butadiene	3.30	39	33663	0.82	ppbv #	14
19) Isopropyl Alcohol	3.97	45	2392	0.06	ppbv #	91
20) Methylene Chloride	4.34	84	138983	4.57	ppbv	99
23) Vinyl Acetate	5.10	43	6685	0.10	ppbv #	24
25) Ethyl Acetate	5.67	43	118556	0.65	ppbv #	76
26) Hexane	5.67	57	166833	2.05	ppbv #	41
29) Chloroform	5.74	83	4453	0.03	ppbv	99
30) Cyclohexane	7.11	84	1551	0.02	ppbv #	1
34) 2-Butanone	5.23	43	186892	2.08	ppbv	96
36) Benzene	6.87	78	69846	0.40	ppbv	94
39) 1,2-Dichloropropane	7.16	63	510113	7.45	ppbv #	28
41) Tetrahydrofuran	6.06	42	11839	0.18	ppbv #	70
44) 2,2,4-Trimethylpentane	7.85	57	8893	0.03	ppbv #	37
52) Tetrachloroethene	11.20	164	313687	4.89	ppbv	98
53) Toluene	9.79	91	93386	0.50	ppbv	100
62) Isopropylbenzene	14.64	105	18326	0.06	ppbv	93

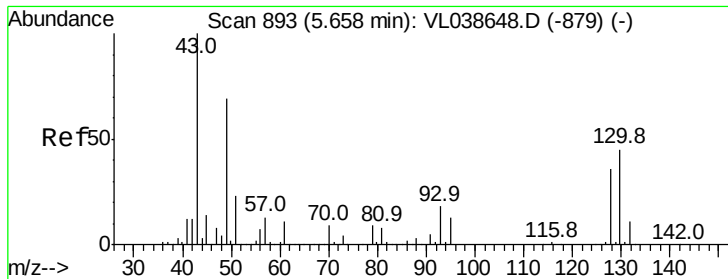
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Mar 2022 21:03 C0P76DL

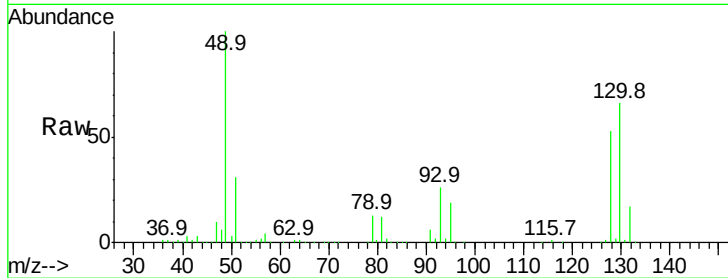
Tgt Ion: 49 Resp: 837441

Ion Ratio Lower Upper

49 100

128 54.5 26.2 78.6

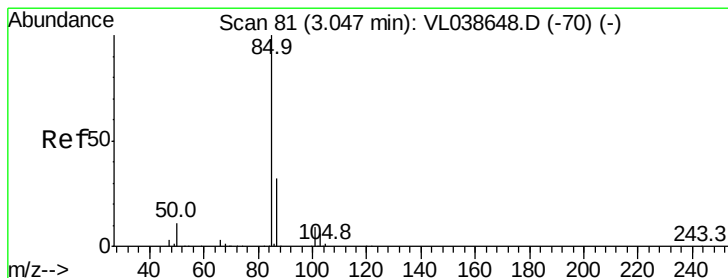
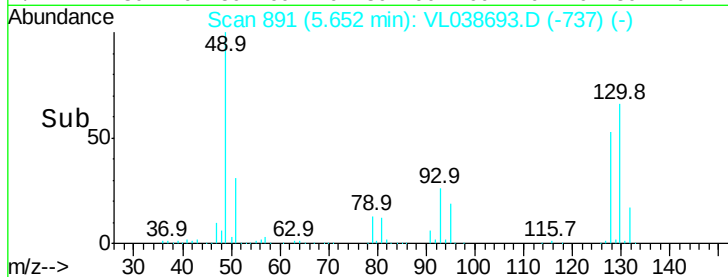
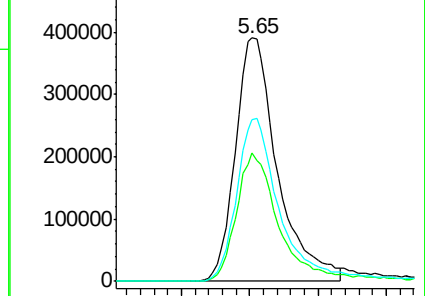
130 70.9 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038693.D

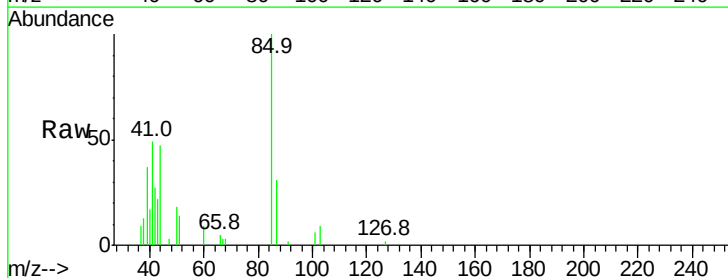
Acq: 22 Mar 2022 21:03

Tgt Ion: 85 Resp: 5158

Ion Ratio Lower Upper

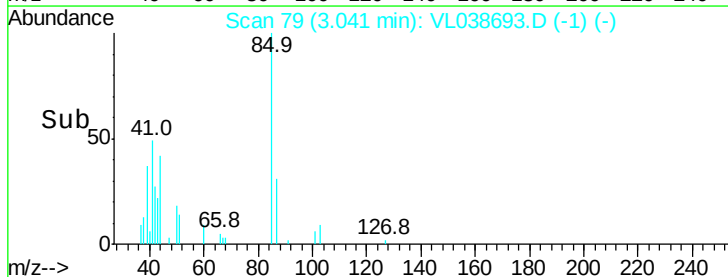
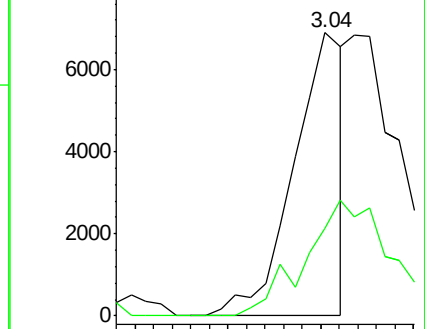
85 100

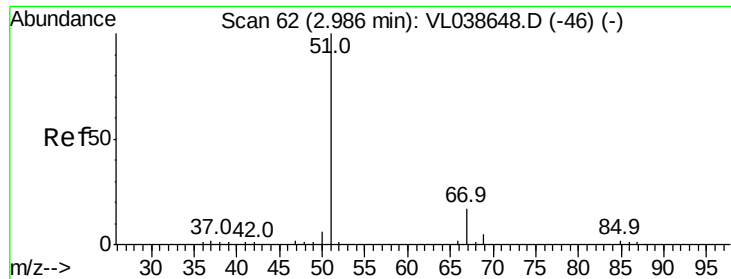
87 30.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.58 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

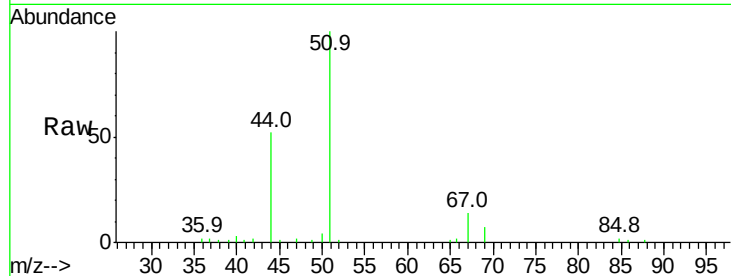
Acq: 22 Mar 2022 21:03

Tgt Ion: 51 Resp: 50924

Ion Ratio Lower Upper

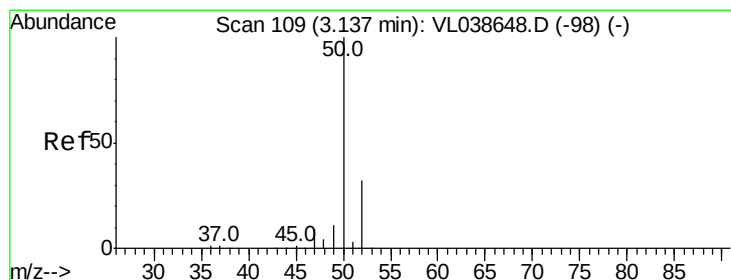
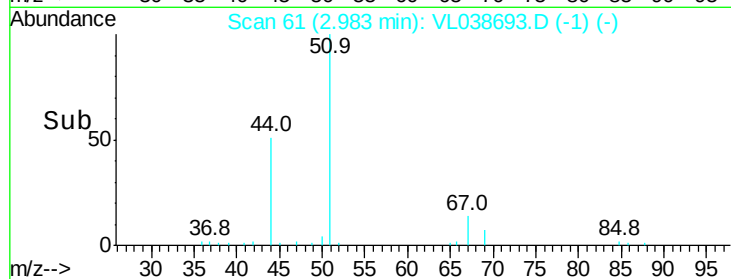
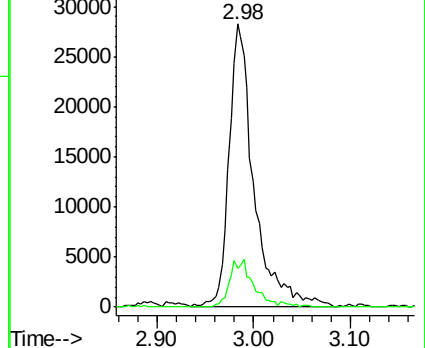
51 100

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



#4

Chloromethane

Concen: 0.07 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL038693.D

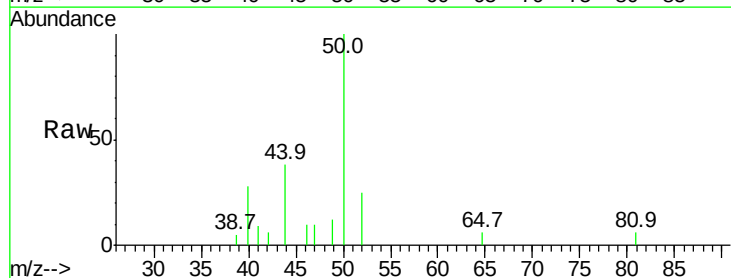
Acq: 22 Mar 2022 21:03

Tgt Ion: 50 Resp: 3303

Ion Ratio Lower Upper

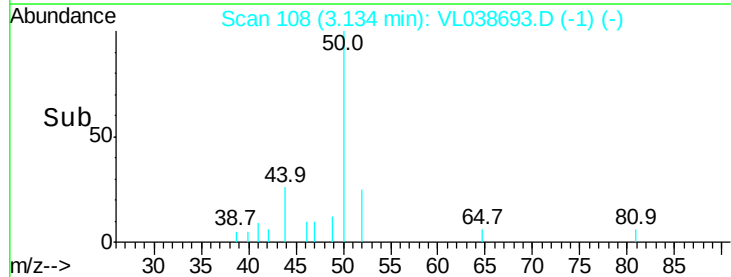
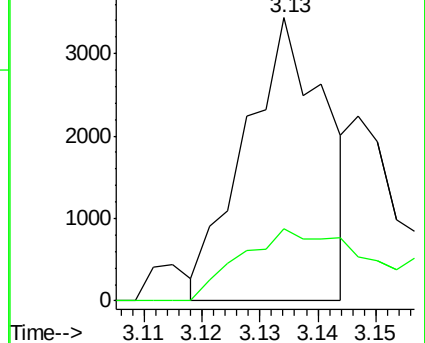
50 100

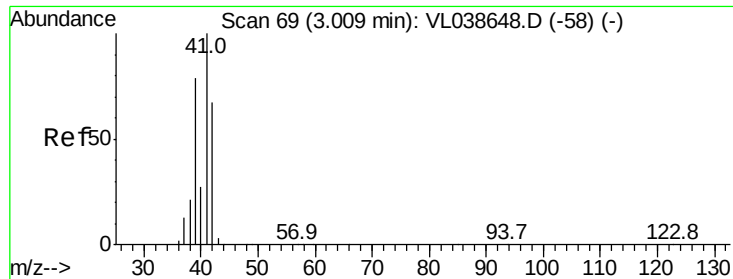
52 29.7 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.69 ppbv

RT: 3.01 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P76DL

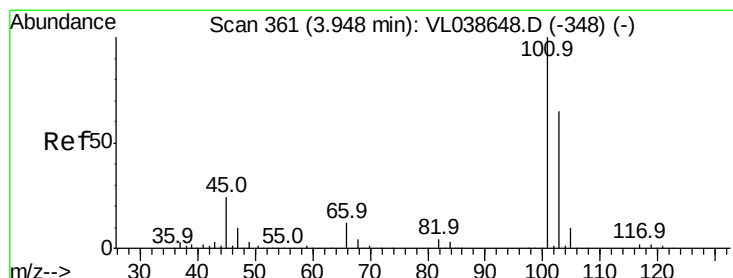
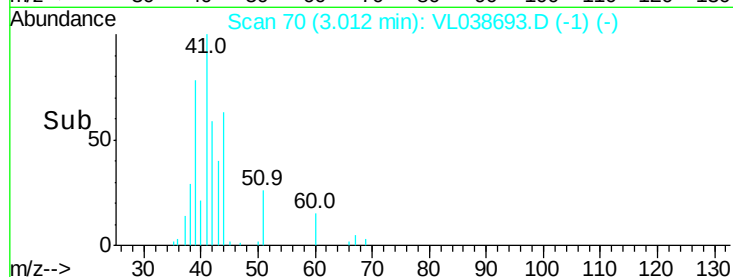
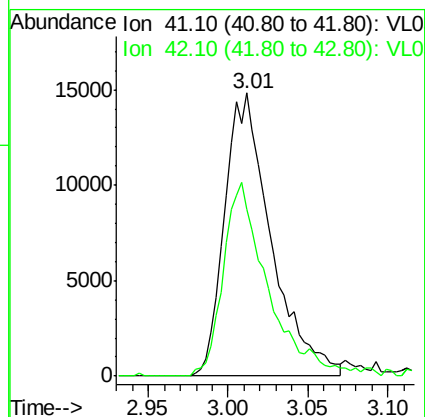
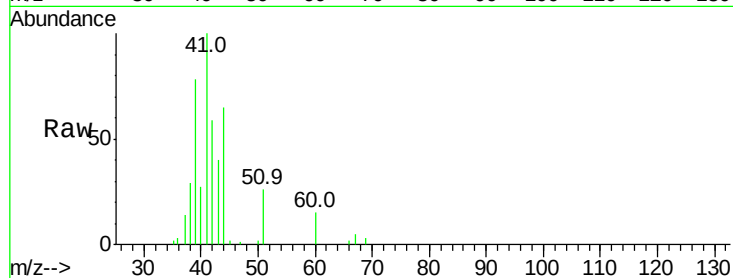
Acq: 22 Mar 2022 21:03

Tgt Ion: 41 Resp: 29519

Ion Ratio Lower Upper

41 100

42 67.5 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.03 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL038693.D

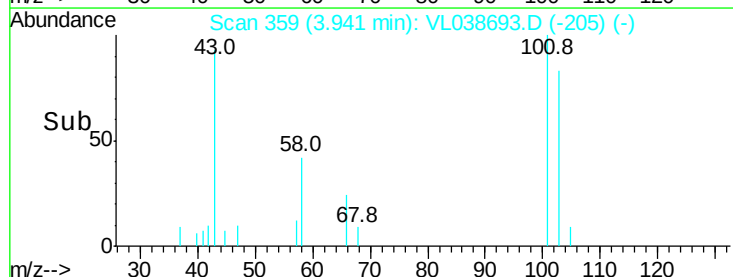
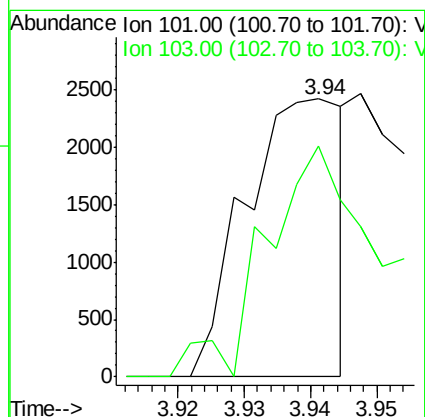
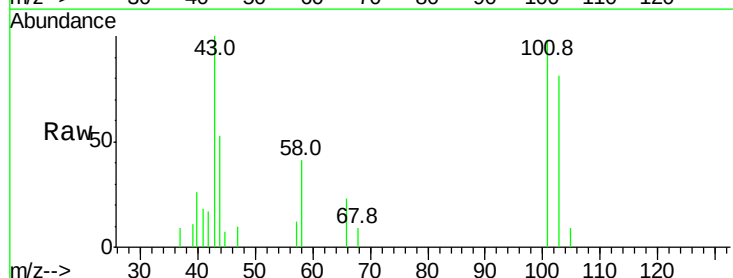
Acq: 22 Mar 2022 21:03

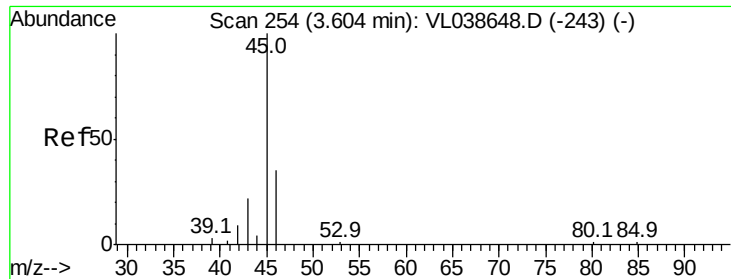
Tgt Ion: 101 Resp: 2487

Ion Ratio Lower Upper

101 100

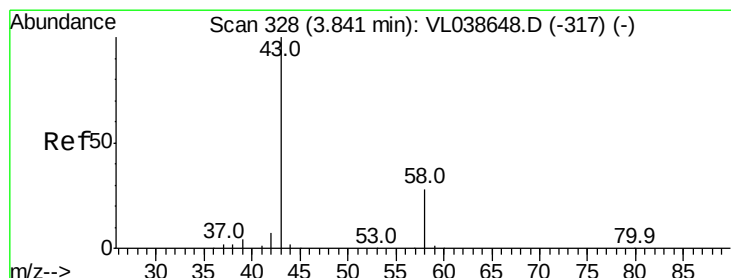
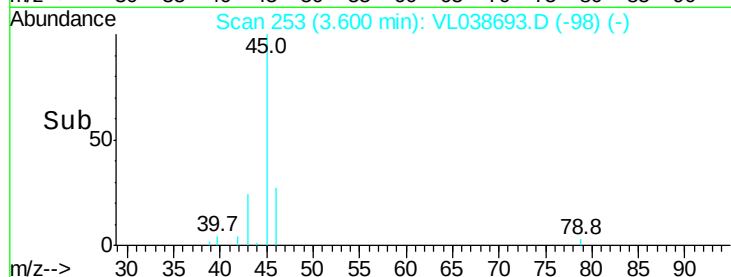
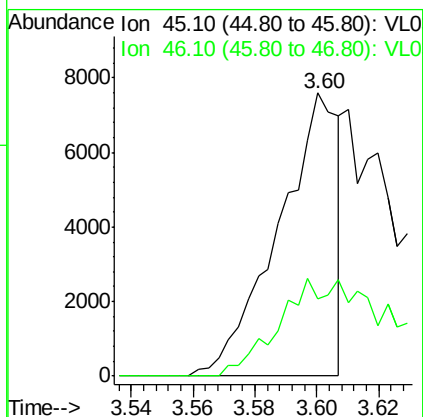
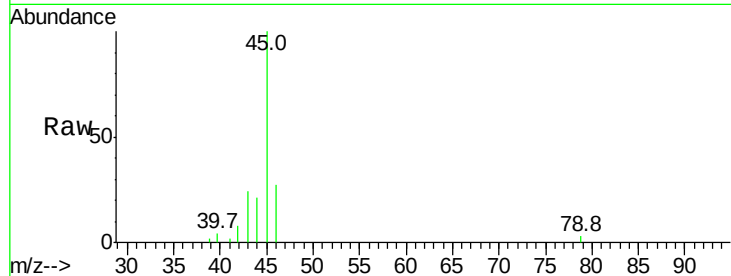
103 70.8 51.9 77.9





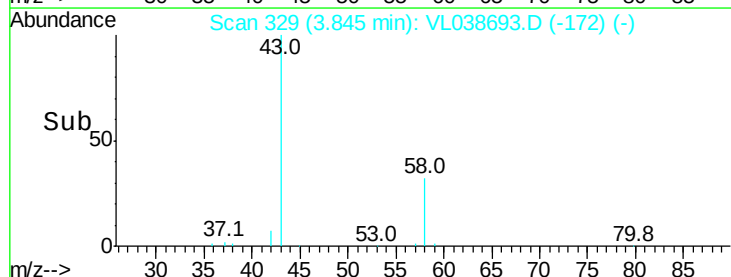
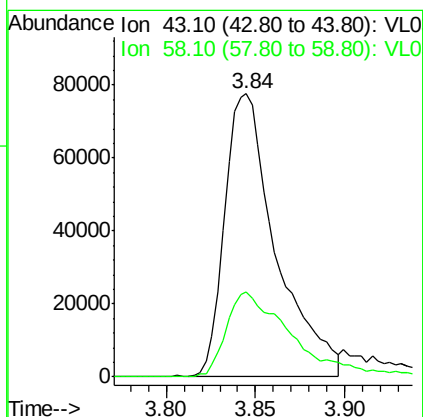
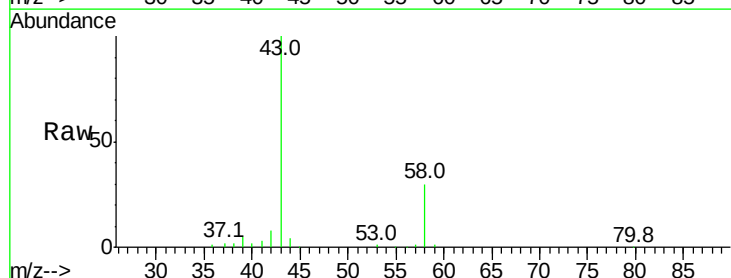
#13
 Ethanol
 Concen: 2.17 ppbv
 RT: 3.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P76DL
 Acq: 22 Mar 2022 21:03

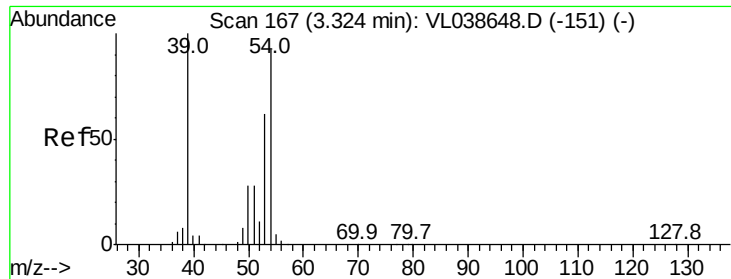
Tgt Ion: 45 Resp: 10199
 Ion Ratio Lower Upper
 45 100
 46 76.6 15.1 60.5#



#15
 Acetone
 Concen: 2.13 ppbv
 RT: 3.84 min Scan# 329
 Delta R.T. 0.00 min
 Lab File: VL038693.D
 Acq: 22 Mar 2022 21:03

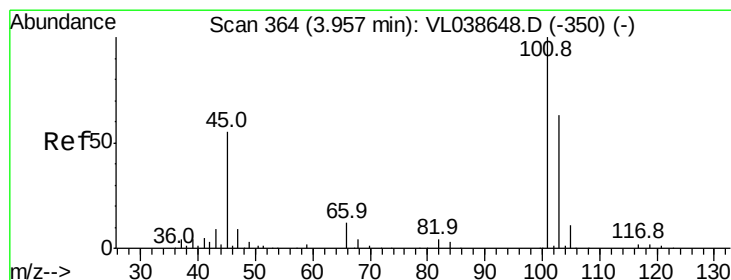
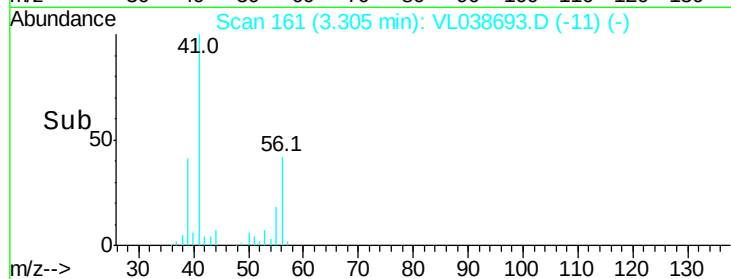
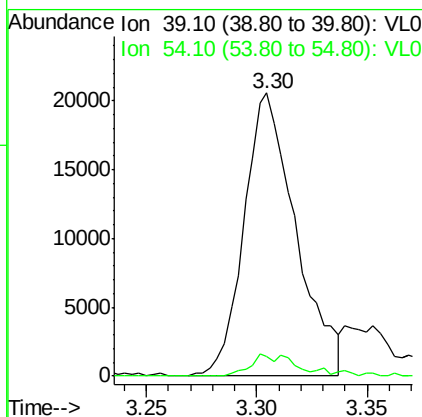
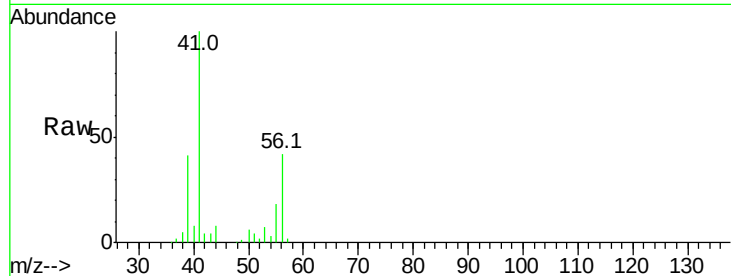
Tgt Ion: 43 Resp: 154266
 Ion Ratio Lower Upper
 43 100
 58 40.3 23.3 34.9#





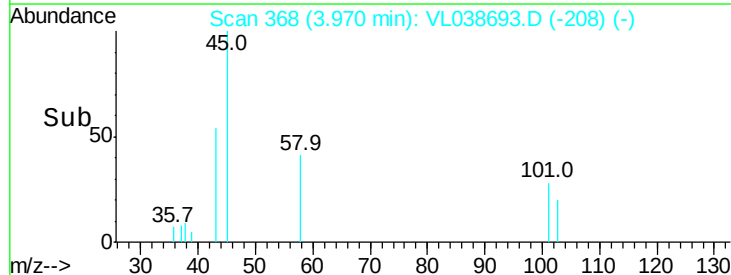
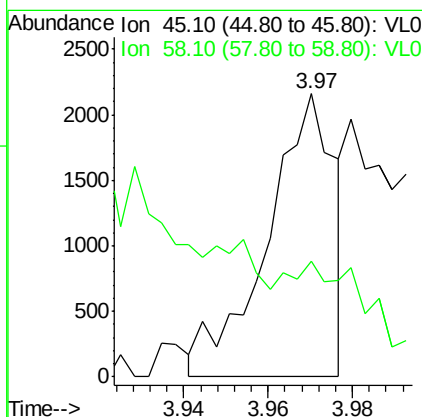
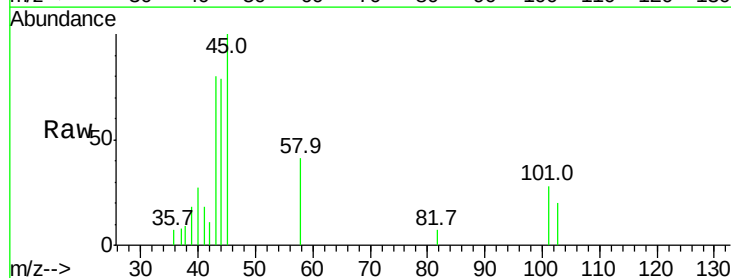
#16
 1,3-Butadiene
 Concen: 0.82 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P76DL
 Acq: 22 Mar 2022 21:03

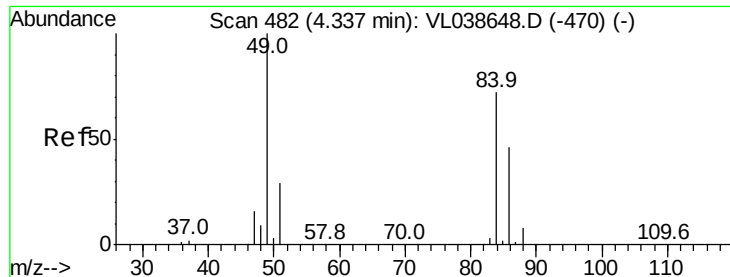
Tgt Ion: 39 Resp: 33663
 Ion Ratio Lower Upper
 39 100
 54 7.6 69.1 103.7#



#19
 Isopropyl Alcohol
 Concen: 0.06 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL038693.D
 Acq: 22 Mar 2022 21:03

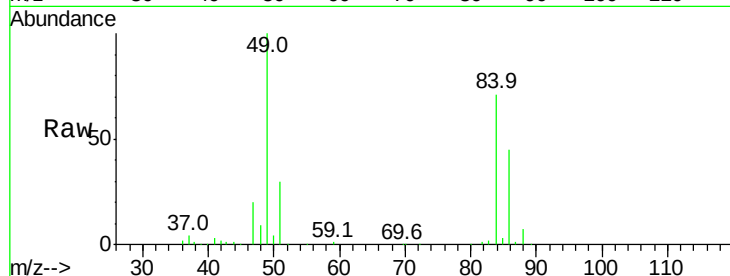
Tgt Ion: 45 Resp: 2392
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.3 3.5#





#20
Methylene Chloride
Concen: 4.57 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Mar 2022 21:03

Tgt Ion:	84	Resp:	138983
Ion	Ratio	Lower	Upper
84	100		
49	140.5	111.2	166.8
51	42.5	32.8	49.2
86	63.6	51.4	77.0



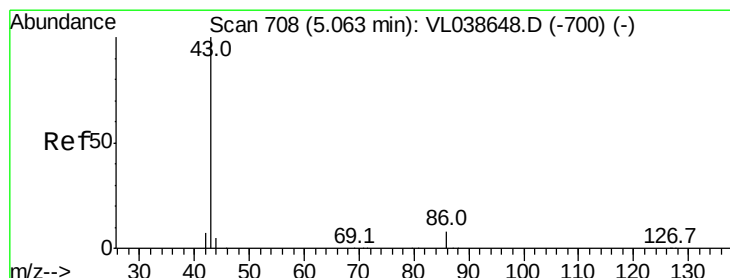
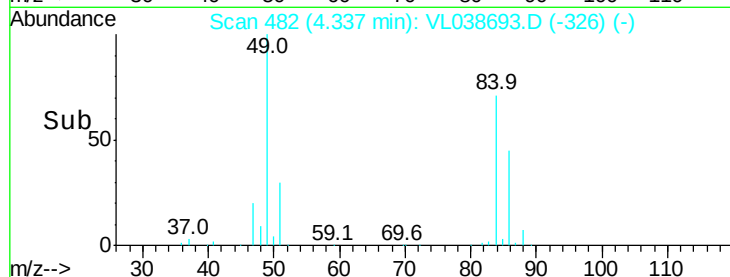
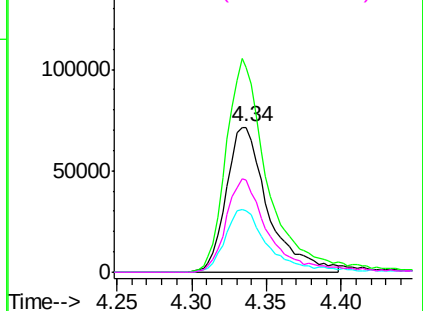
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

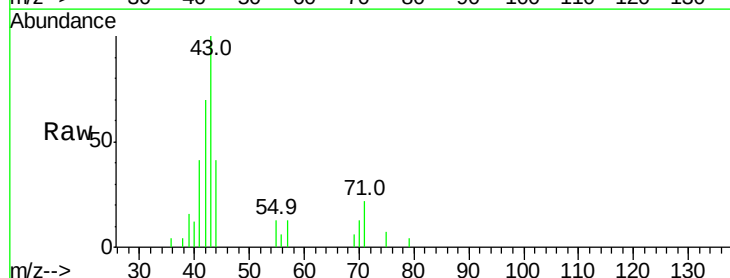
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.10 ppbv
RT: 5.10 min Scan# 720
Delta R.T. 0.04 min
Lab File: VL038693.D
Acq: 22 Mar 2022 21:03

Tgt Ion:	43	Resp:	6685
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#
42	64.8	6.8	10.2#
44	10.8	4.2	6.2#



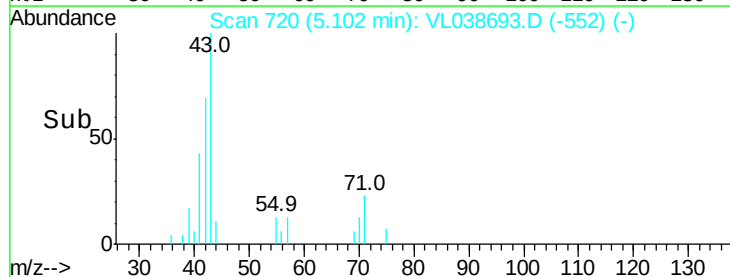
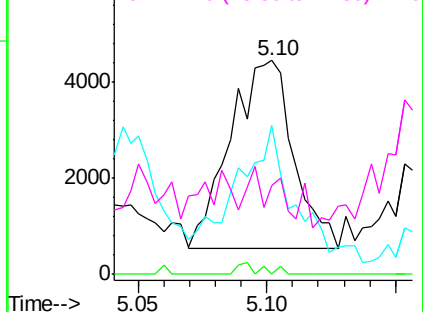
Abundance

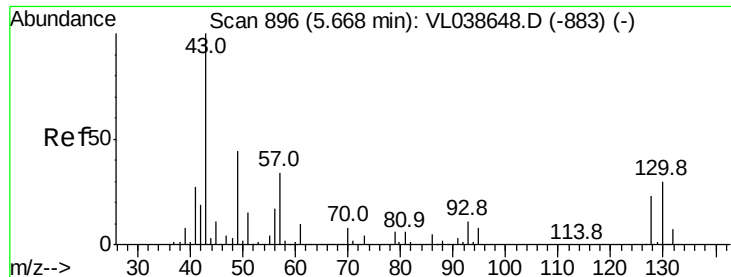
Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

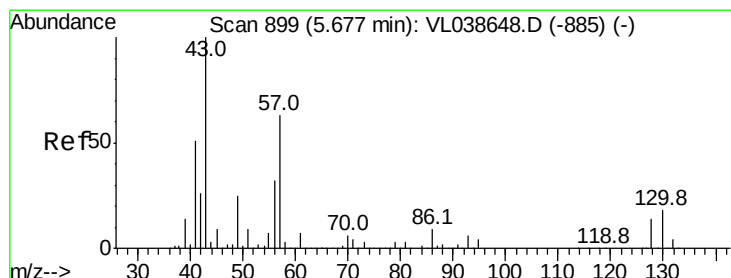
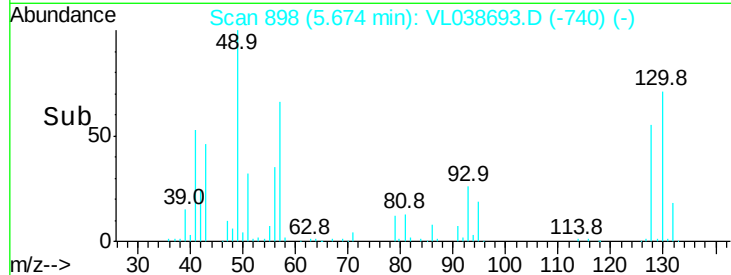
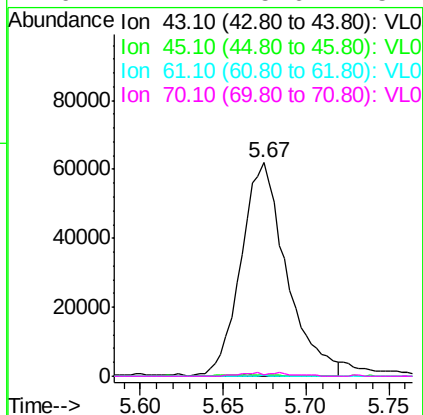
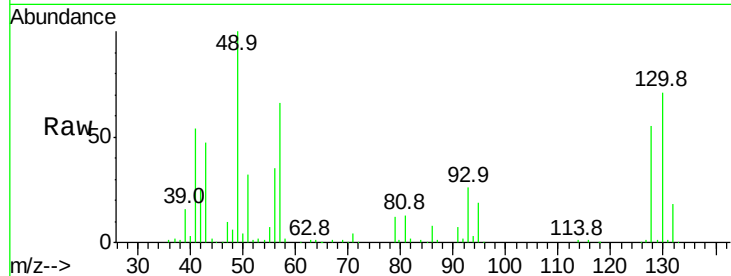
Ion 44.10 (43.80 to 44.80): VL0





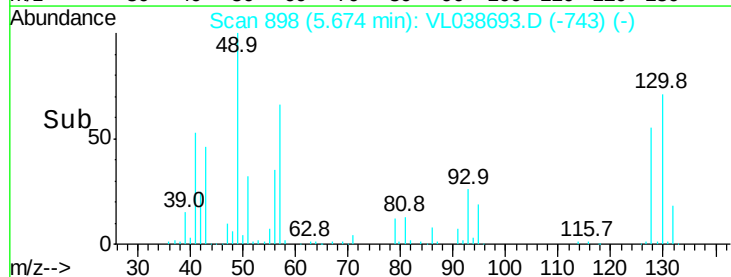
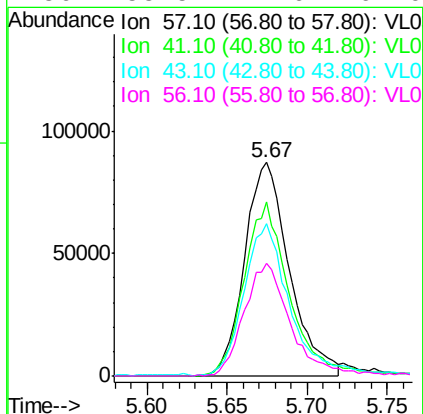
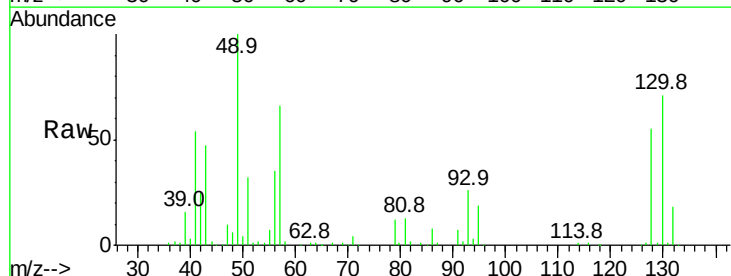
#25
Ethyl Acetate
Concen: 0.65 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COP76DL
Acq: 22 Mar 2022 21:03

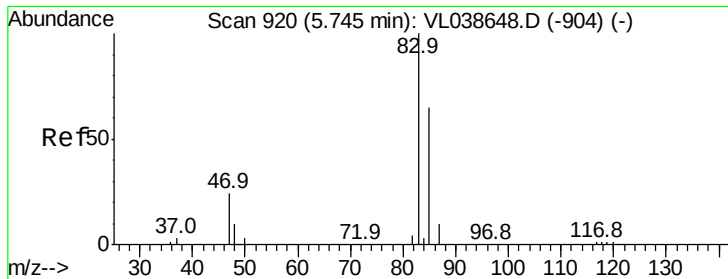
Tgt Ion:	43	Resp:	118556
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.2	12.4#
61	0.2	8.3	12.5#
70	1.7	5.6	8.4#



#26
Hexane
Concen: 2.05 ppbv
RT: 5.67 min Scan# 898
Delta R.T.: -0.00 min
Lab File: VL038693.D
Acq: 22 Mar 2022 21:03

Tgt Ion:	57	Resp:	166833
Ion	Ratio	Lower	Upper
57	100		
41	85.3	67.0	100.4
43	75.9	184.2	276.2#
56	55.5	42.6	64.0





#29

Chloroform

Concen: 0.03 ppbv

RT: 5.74 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: COP76DL

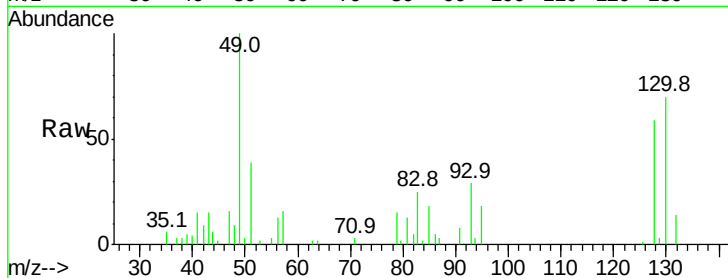
Acq: 22 Mar 2022 21:03

Tgt Ion: 83 Resp: 4453

Ion Ratio Lower Upper

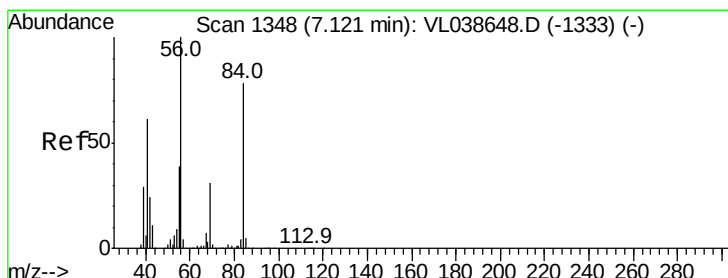
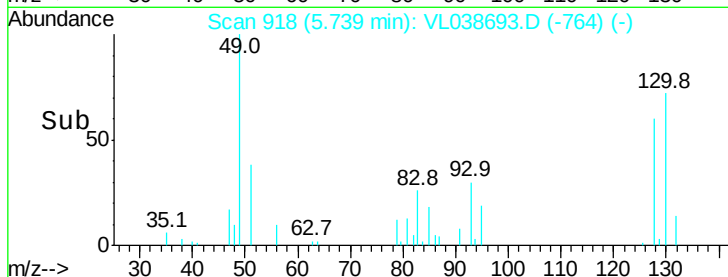
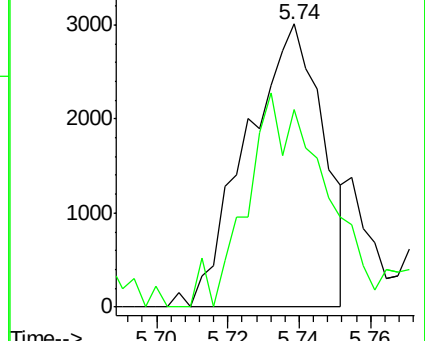
83 100

85 65.3 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.02 ppbv

RT: 7.11 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VL038693.D

Acq: 22 Mar 2022 21:03

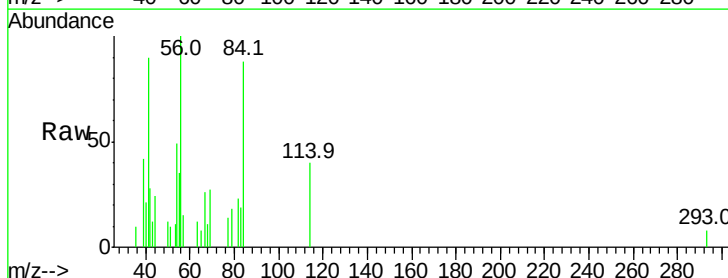
Tgt Ion: 84 Resp: 1551

Ion Ratio Lower Upper

84 100

56 0.0 108.2 162.4#

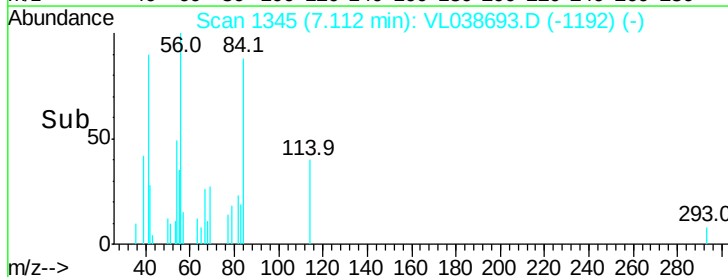
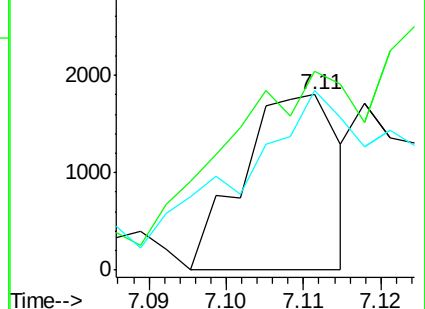
41 289.7 61.8 92.6#

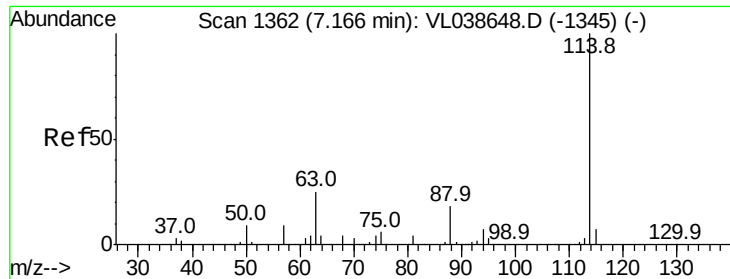


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

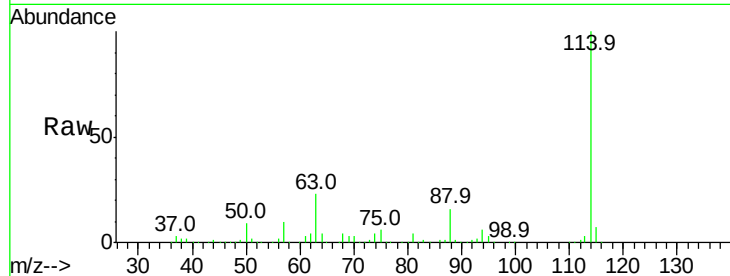
Ion 41.10 (40.80 to 41.80): VL0



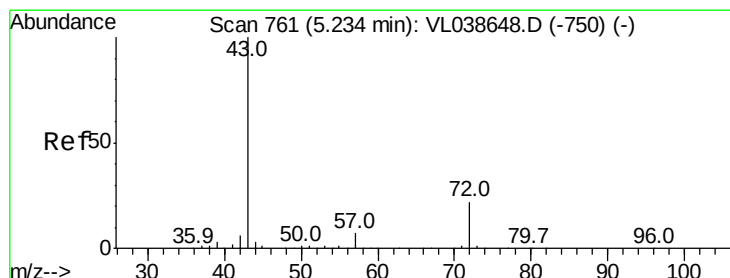
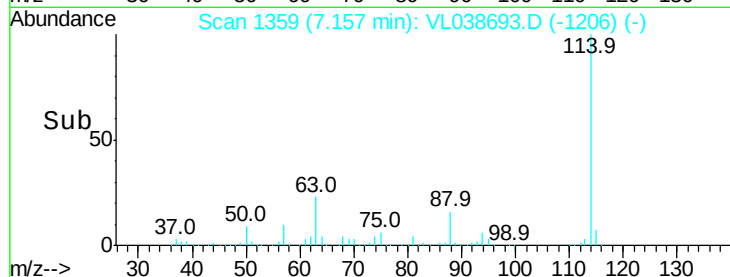
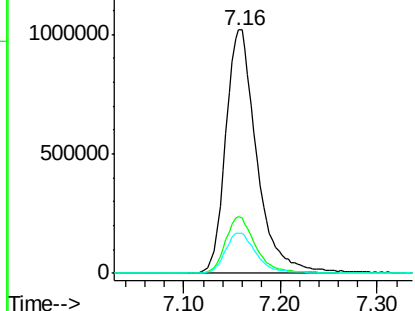


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.16
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 C0P76DL
 Acq: 22 Mar 2022 21:03

Tgt Ion: 114 Resp: 2269918
 Ion Ratio Lower Upper
 114 100
 63 23.1 19.4 29.0
 88 16.8 13.9 20.9

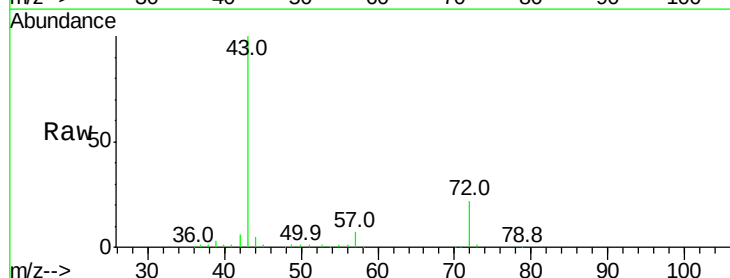


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

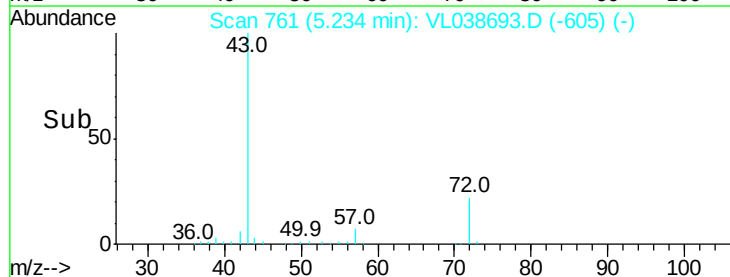
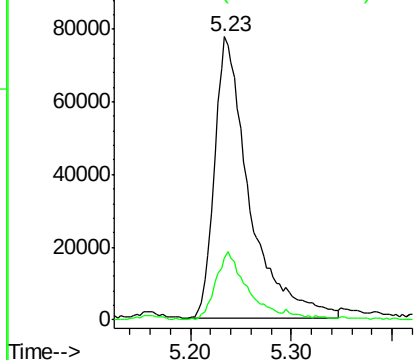


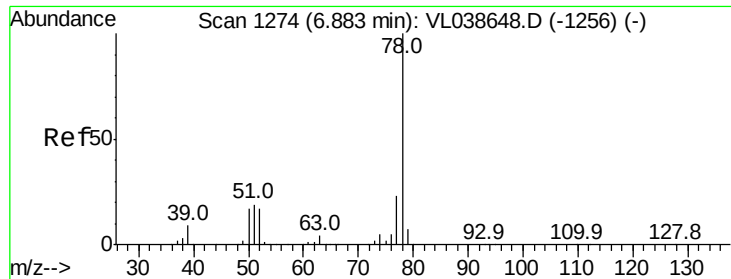
#34
 2-Butanone
 Concen: 2.08 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T.: 0.00 min
 Lab File: VL038693.D
 Acq: 22 Mar 2022 21:03

Tgt Ion: 43 Resp: 186892
 Ion Ratio Lower Upper
 43 100
 72 24.0 17.8 26.8



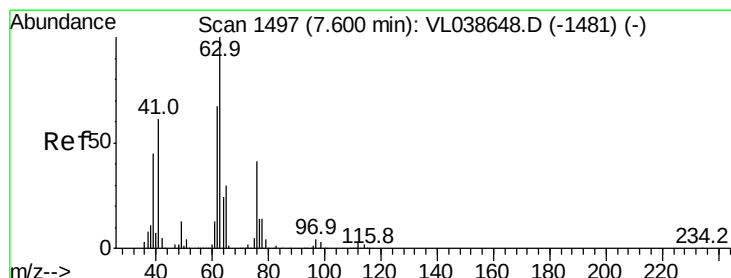
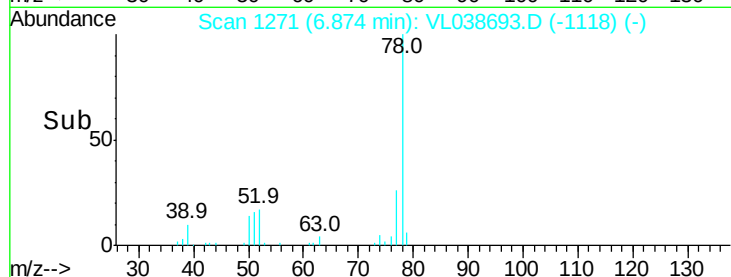
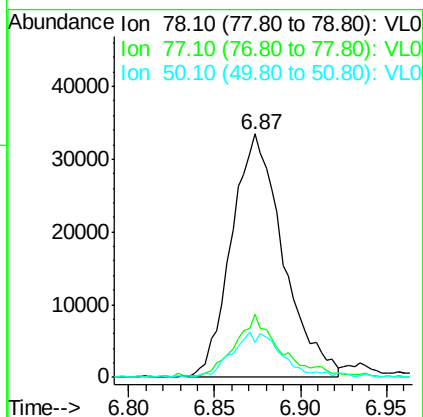
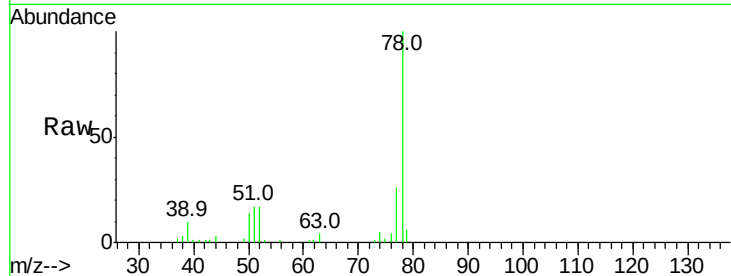
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





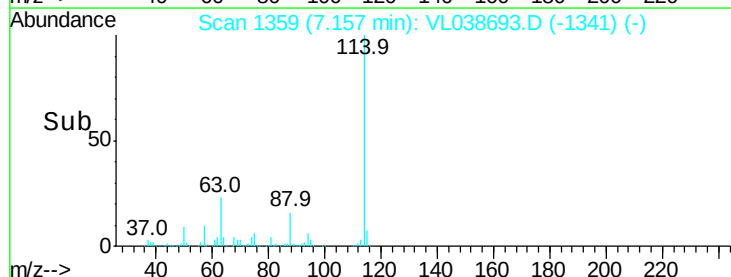
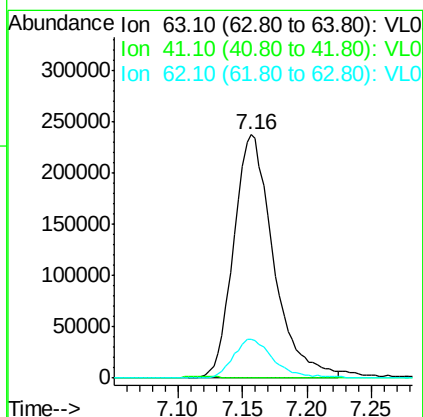
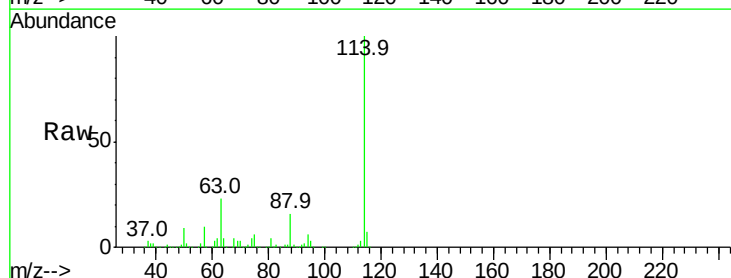
#36
Benzene
Concen: 0.40 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP76DL
Acq: 22 Mar 2022 21:03

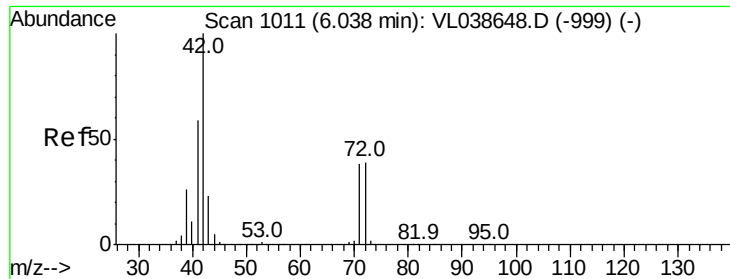
Tgt Ion: 78 Resp: 69846
Ion Ratio Lower Upper
78 100
77 25.2 18.1 27.1
50 14.4 13.6 20.4



#39
1,2-Dichloropropane
Concen: 7.45 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.44 min
Lab File: VL038693.D
Acq: 22 Mar 2022 21:03

Tgt Ion: 63 Resp: 510113
Ion Ratio Lower Upper
63 100
41 0.0 49.0 73.6#
62 15.9 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.18 ppbv

RT: 6.06 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P76DL

Acq: 22 Mar 2022 21:03

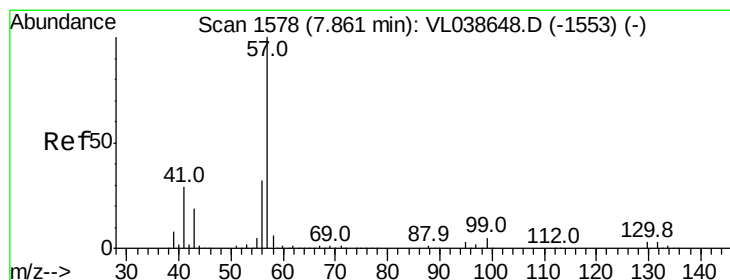
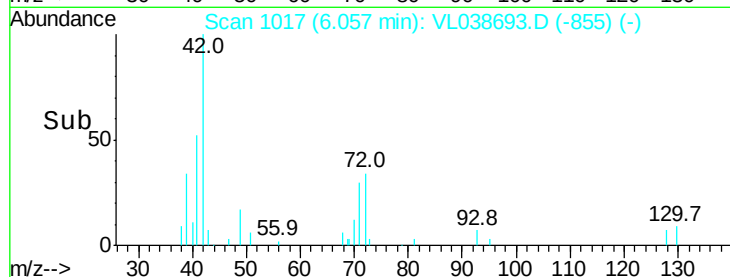
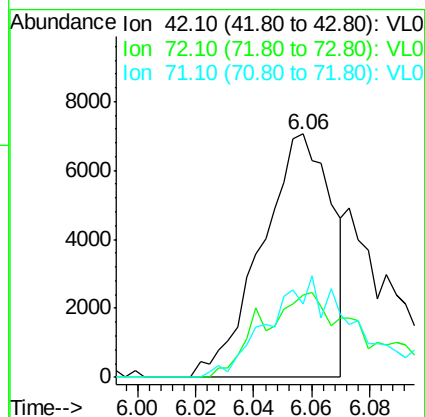
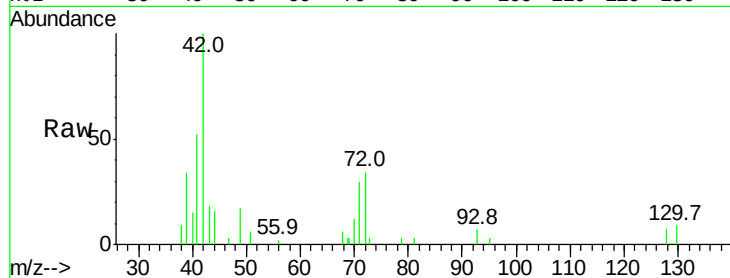
Tgt Ion: 42 Resp: 11839

Ion Ratio Lower Upper

42 100

72 56.6 32.5 48.7#

71 60.1 31.4 47.2#



#44

2,2,4-Trimethylpentane

Concen: 0.03 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. -0.01 min

Lab File: VL038693.D

Acq: 22 Mar 2022 21:03

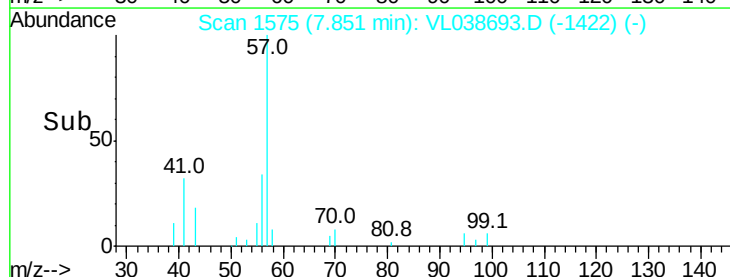
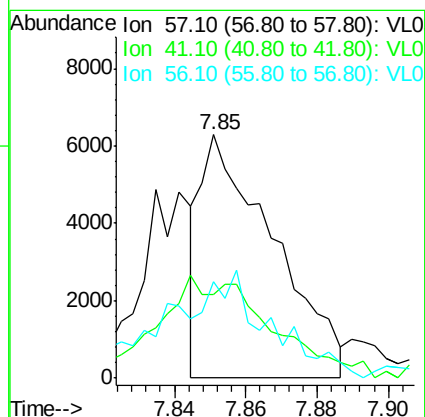
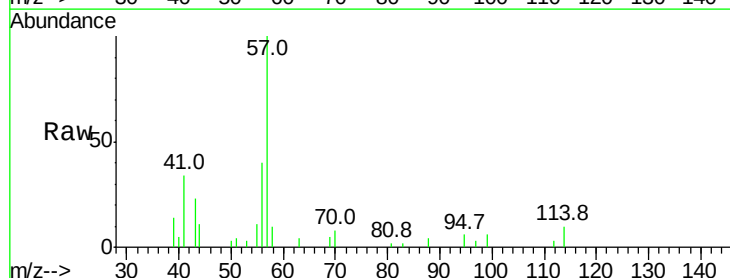
Tgt Ion: 57 Resp: 8893

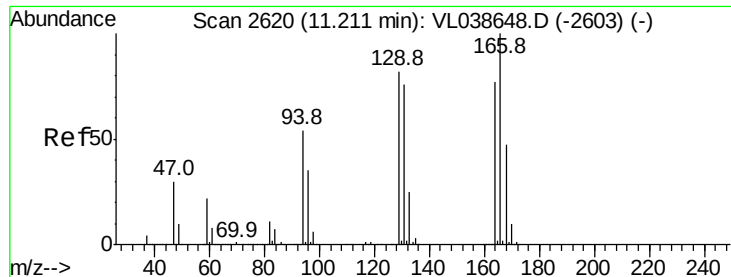
Ion Ratio Lower Upper

57 100

41 0.0 23.0 34.4#

56 71.1 25.3 37.9#





#52

Tetrachloroethene

Concen: 4.89 ppbv

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Mar 2022 21:03

Tgt Ion: 164 Resp: 313687

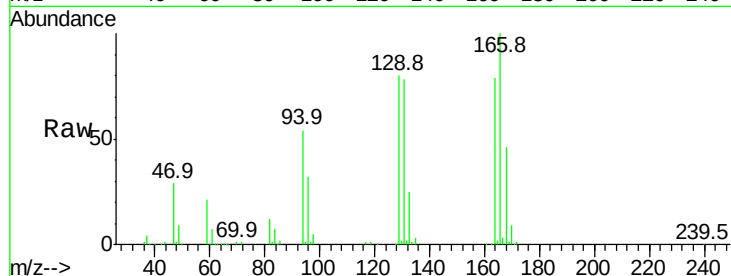
Ion Ratio Lower Upper

164 100

166 126.2 103.3 154.9

129 103.3 85.2 127.8

131 98.9 78.3 117.5

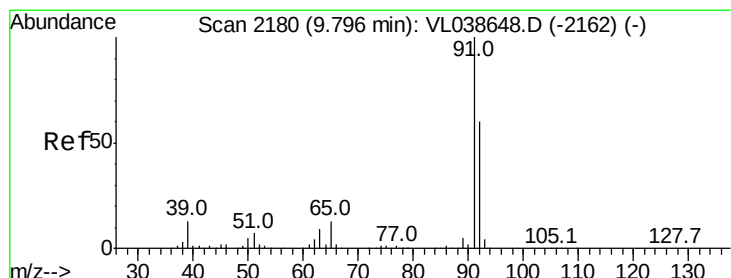
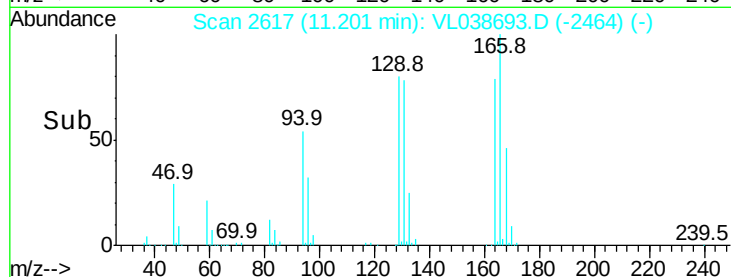
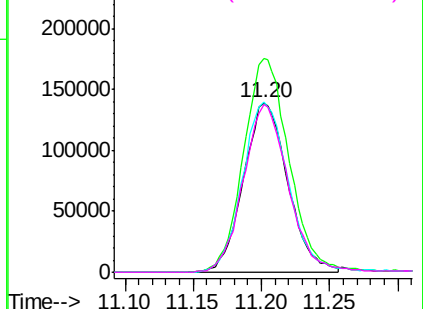


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.50 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL038693.D

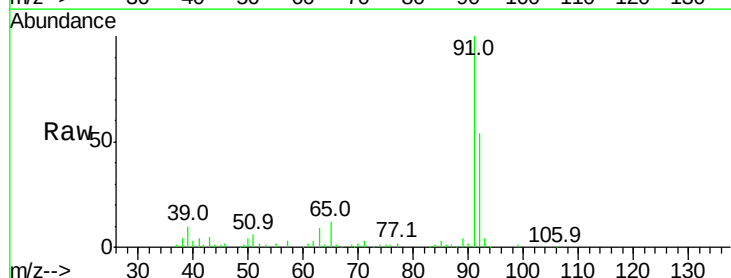
Acq: 22 Mar 2022 21:03

Tgt Ion: 91 Resp: 93386

Ion Ratio Lower Upper

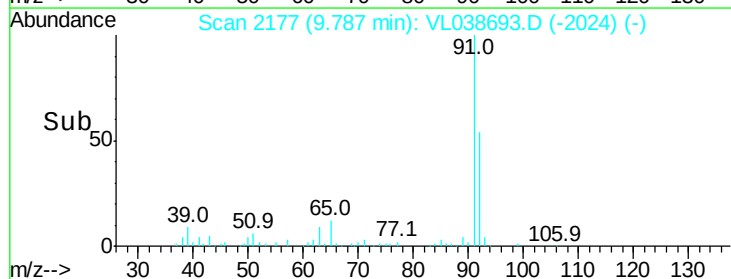
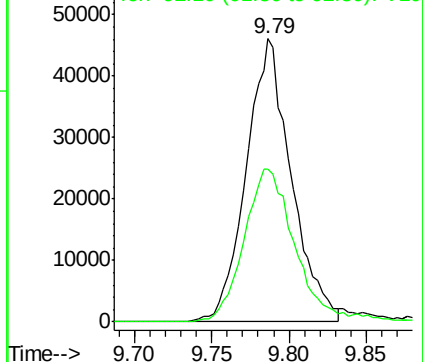
91 100

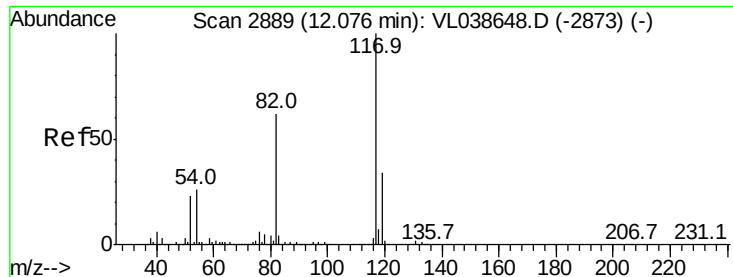
92 61.2 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

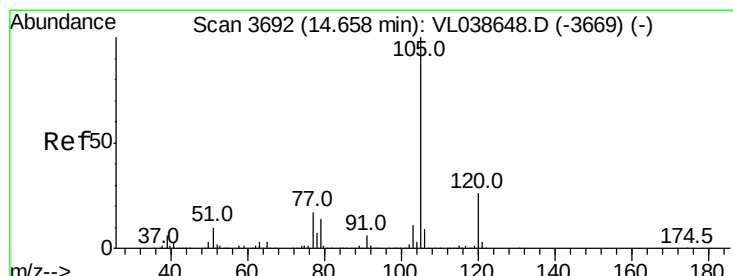
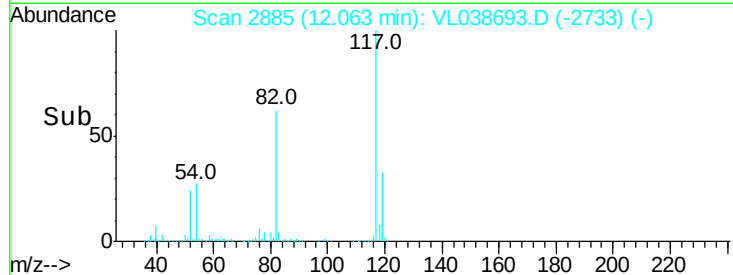
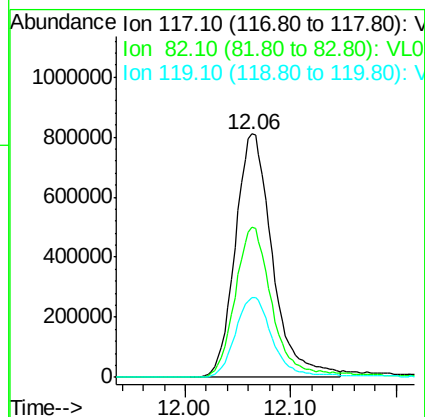
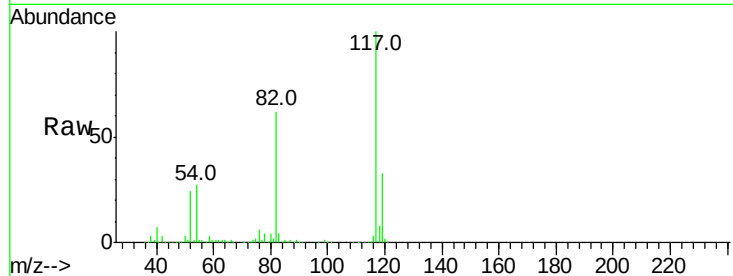
Ion 92.10 (91.80 to 92.80): VL0





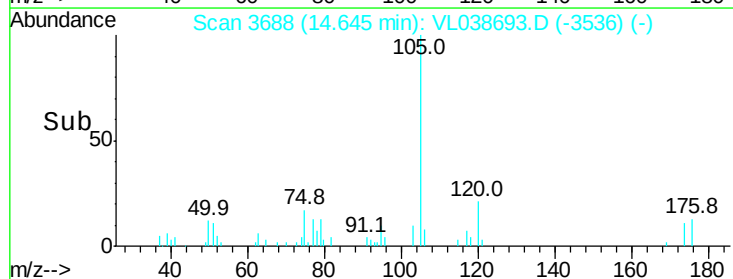
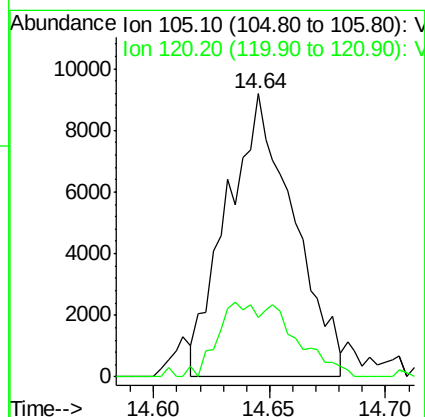
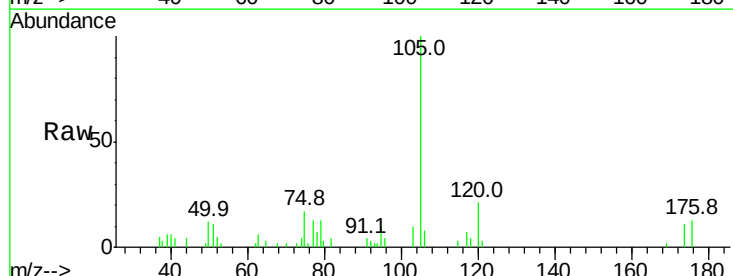
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.06
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COP76DL
Acq: 22 Mar 2022 21:03

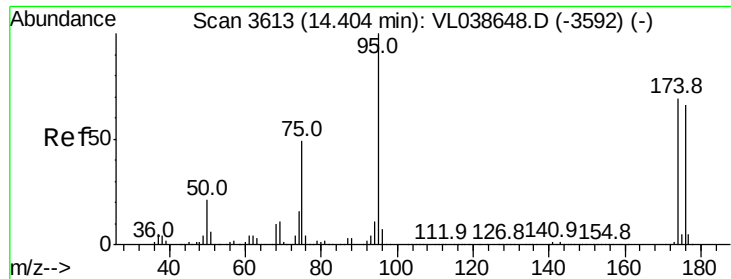
Tgt Ion:117 Resp: 1980998
Ion Ratio Lower Upper
117 100
82 64.5 51.6 77.4
119 34.3 26.9 40.3



#62
Isopropylbenzene
Concen: 0.06 ppbv
RT: 14.64 min Scan# 3688
Delta R.T. -0.01 min
Lab File: VL038693.D
Acq: 22 Mar 2022 21:03

Tgt Ion:105 Resp: 18326
Ion Ratio Lower Upper
105 100
120 30.1 21.2 31.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.57 ppbv

RT: 14.39

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

COP76DL

Acq: 22 Mar 2022 21:05

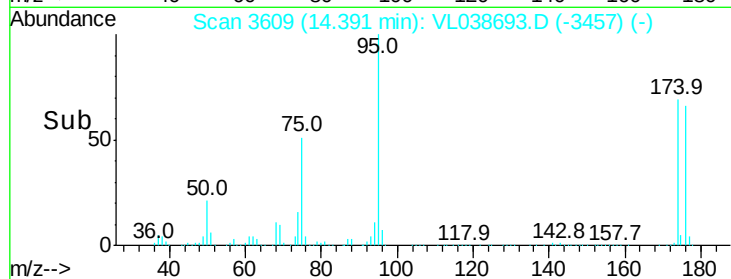
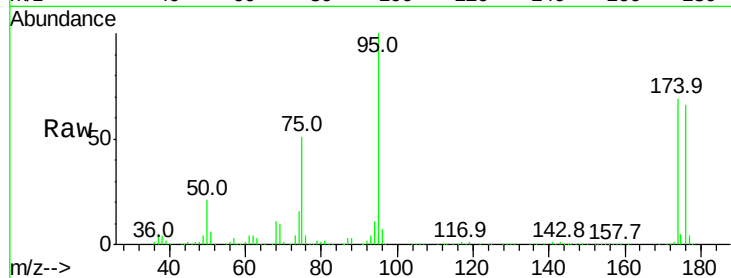
Tgt Ion: 95 Resp: 1453935

Ion Ratio Lower Upper

95 100

174 73.9 56.1 84.1

175 5.3 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

