

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032122\
 Data File : VL038668.D
 Acq On : 22 Mar 2022 2:37
 Operator : SY/AP
 Sample : N1964-11DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P81DL

Quant Time: Mar 22 04:01:58 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	5.66	49	970422	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2503917	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2165553	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1611297	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

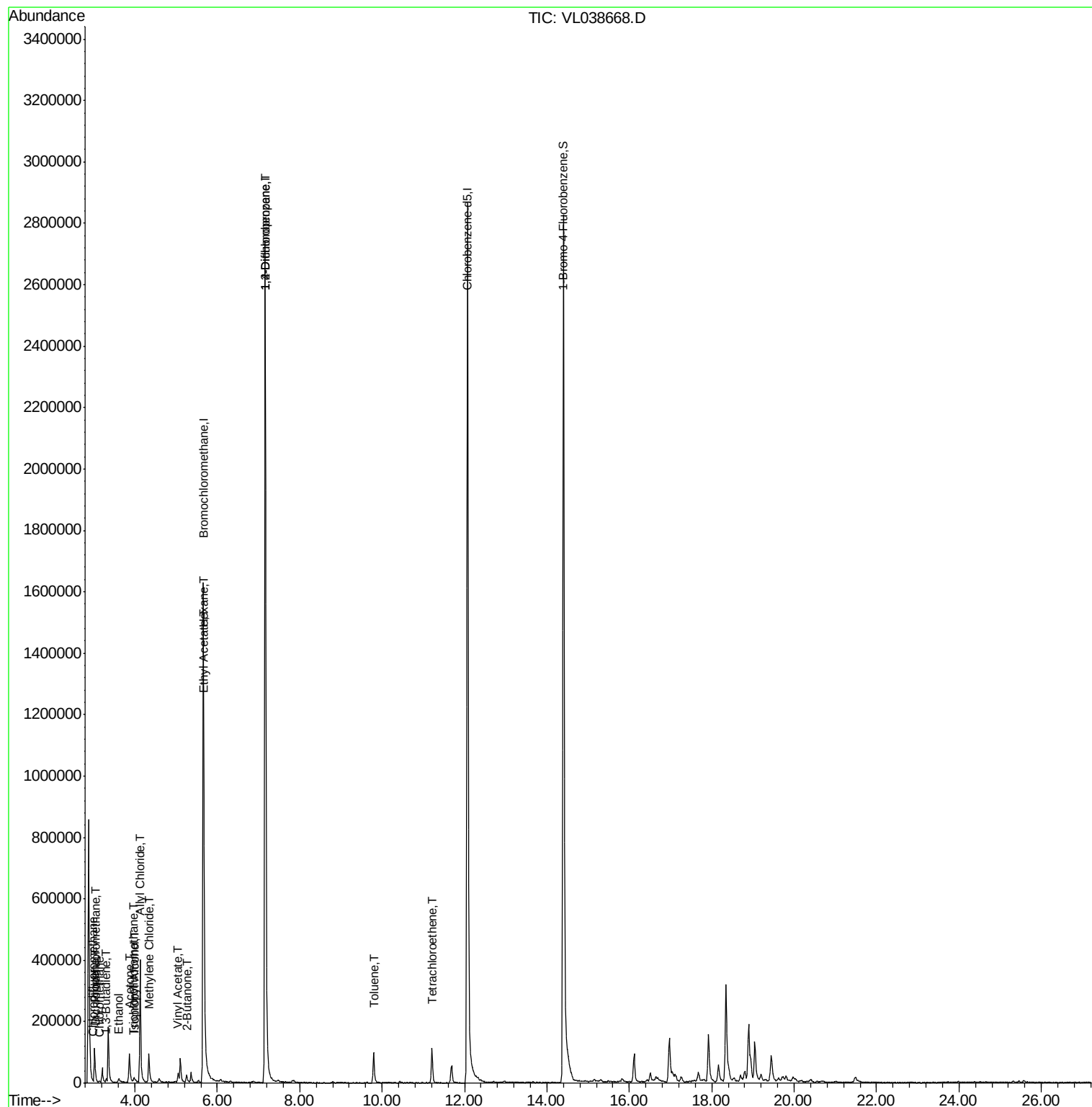
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	5456	0.04	ppbv #	87
3) Chlorodifluoromethane	2.99	51	5175	0.05	ppbv #	73
4) Chloromethane	3.14	50	2158	0.04	ppbv #	85
9) Propene	3.02	41	31212	0.63	ppbv #	70
11) Trichlorofluoromethane	3.95	101	2402	0.02	ppbv #	73
13) Ethanol	3.61	45	12864	2.36	ppbv	64
15) Acetone	3.86	43	70822	0.85	ppbv #	87
16) 1,3-Butadiene	3.30	39	2507	0.05	ppbv #	11
19) Isopropyl Alcohol	3.98	45	10244	0.22	ppbv #	91
20) Methylene Chloride	4.34	84	37437	1.06	ppbv	91
21) Allyl Chloride	4.12	41	134421	2.23	ppbv #	53
23) Vinyl Acetate	5.05	43	11533	0.14	ppbv #	1
25) Ethyl Acetate	5.68	43	25176	0.12	ppbv #	95
26) Hexane	5.68	57	11108	0.12	ppbv #	1
34) 2-Butanone	5.25	43	29533	0.30	ppbv #	88
39) 1,2-Dichloropropane	7.16	63	572609	7.58	ppbv #	28
52) Tetrachloroethene	11.21	164	31511	0.45	ppbv	94
53) Toluene	9.80	91	86935	0.42	ppbv	99

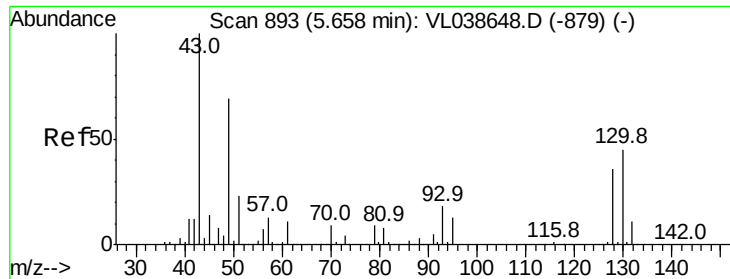
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P81DL

Acq: 22 Mar 2022 2:37

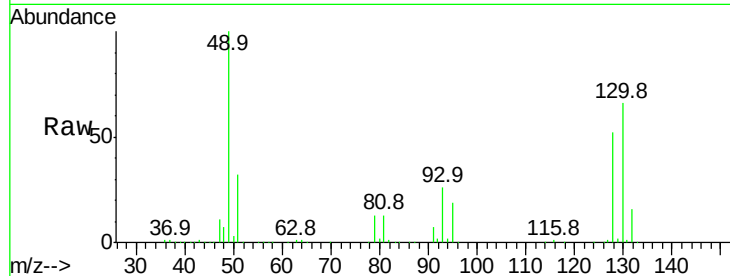
Tgt Ion: 49 Resp: 970422

Ion Ratio Lower Upper

49 100

128 53.9 26.2 78.6

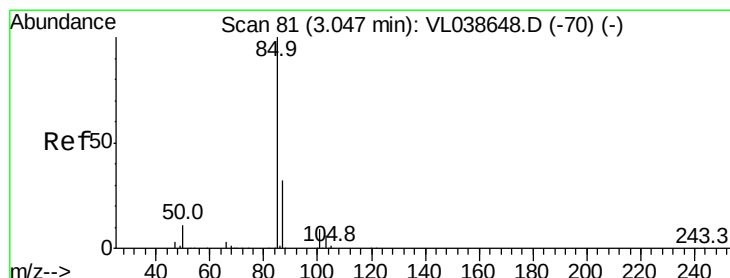
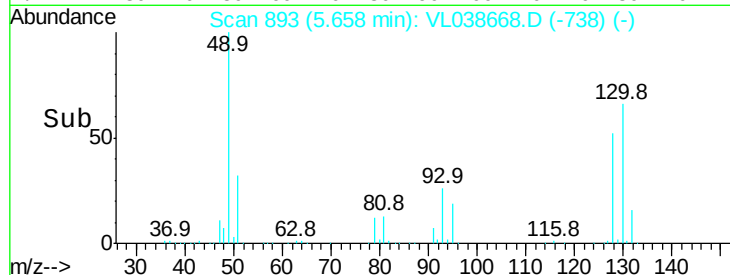
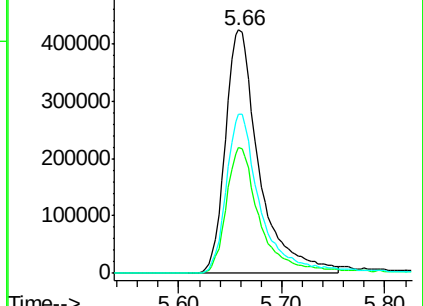
130 68.6 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038668.D

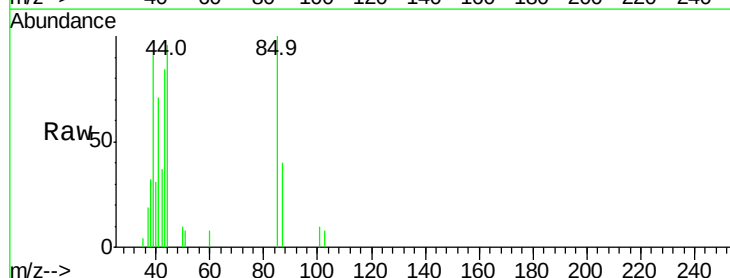
Acq: 22 Mar 2022 2:37

Tgt Ion: 85 Resp: 5456

Ion Ratio Lower Upper

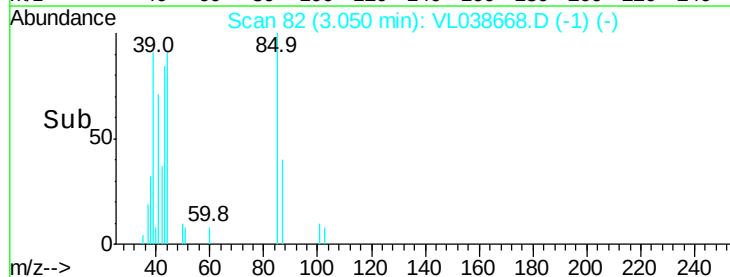
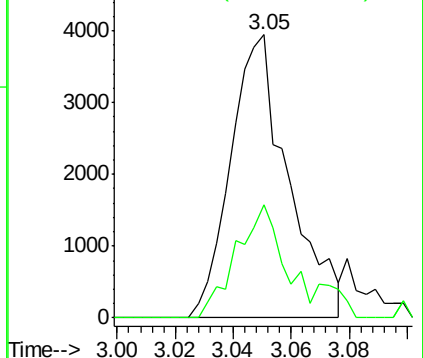
85 100

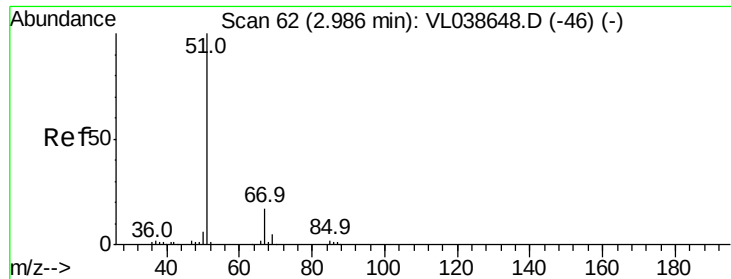
87 39.8 26.0 39.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.05 ppbv

RT: 2.99 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: COP81DL

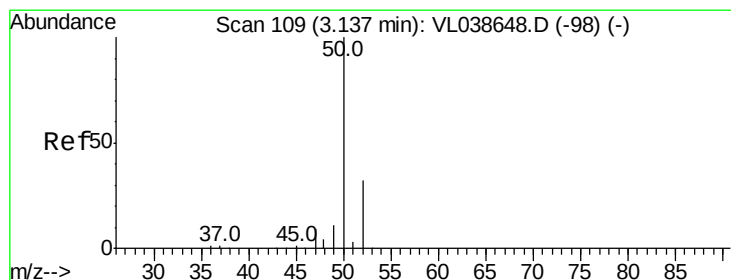
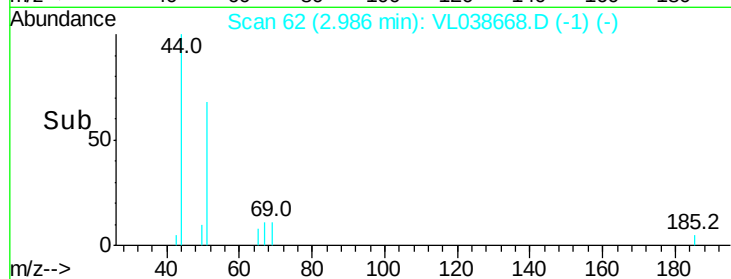
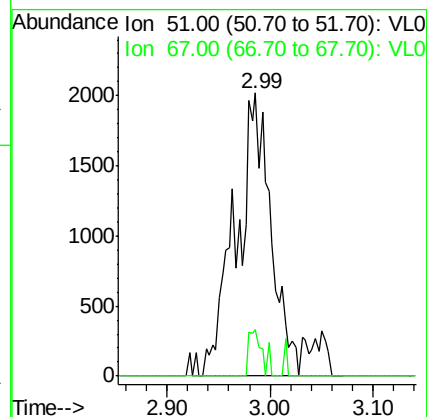
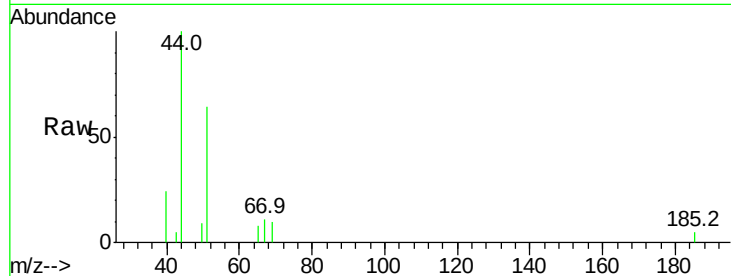
Acq: 22 Mar 2022 2:37

Tgt Ion: 51 Resp: 5175

Ion Ratio Lower Upper

51 100

67 5.9 14.1 21.1#



#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL038668.D

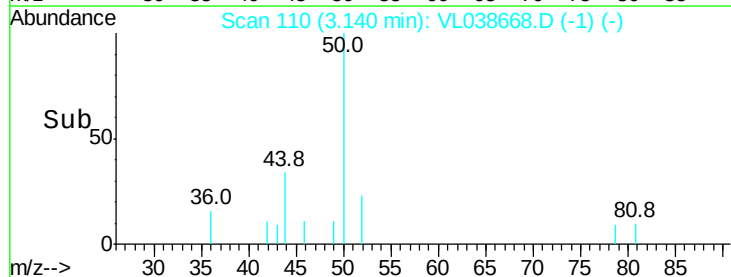
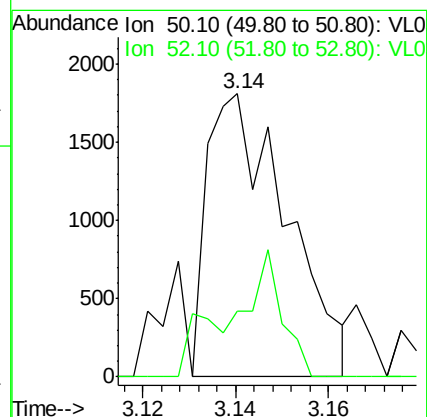
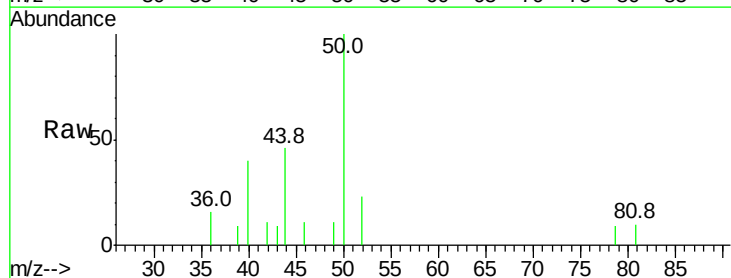
Acq: 22 Mar 2022 2:37

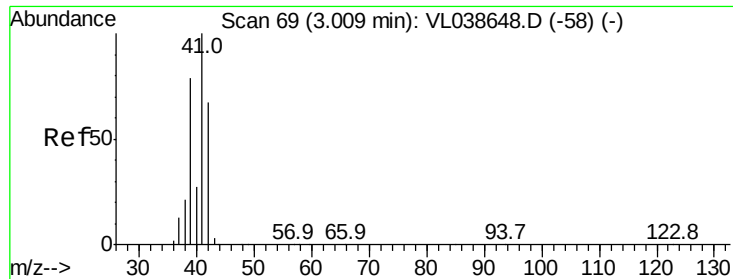
Tgt Ion: 50 Resp: 2158

Ion Ratio Lower Upper

50 100

52 23.5 25.5 38.3#





#9

Propene

Concen: 0.63 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P81DL

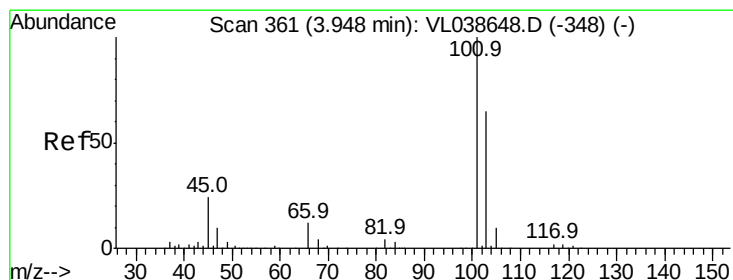
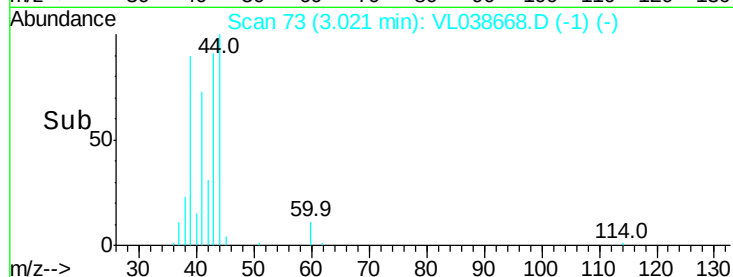
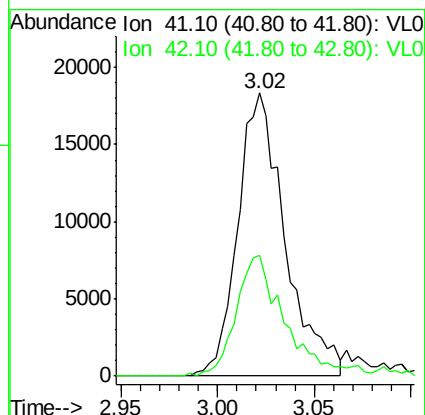
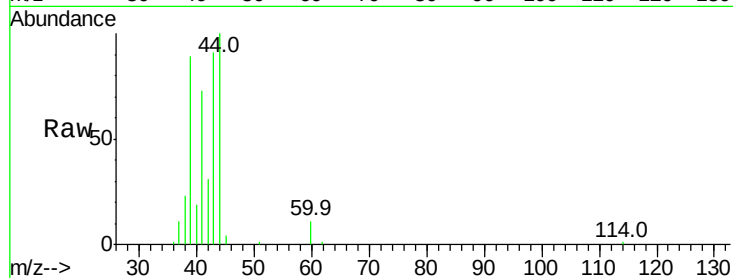
Acq: 22 Mar 2022 2:37

Tgt Ion: 41 Resp: 31212

Ion Ratio Lower Upper

41 100

42 45.6 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.02 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL038668.D

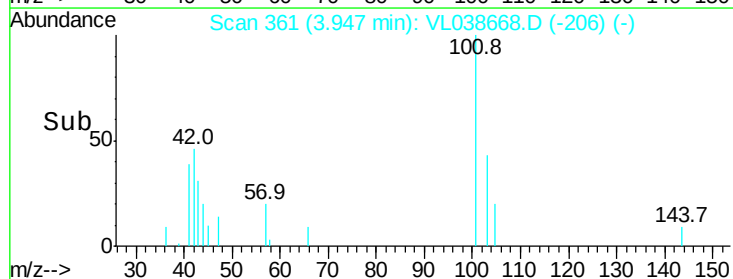
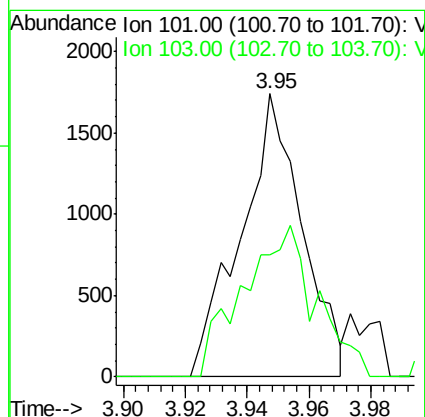
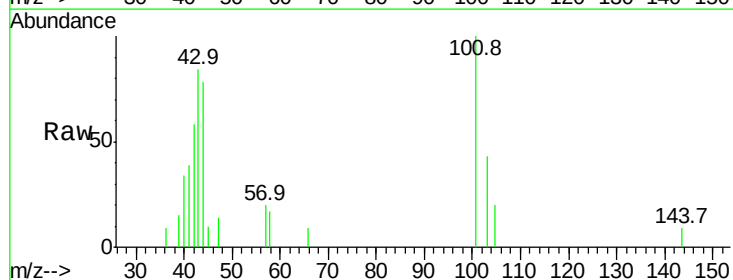
Acq: 22 Mar 2022 2:37

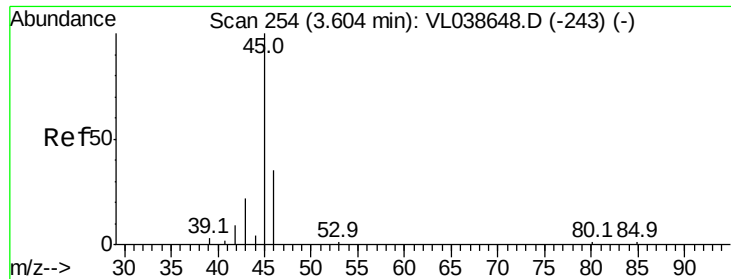
Tgt Ion: 101 Resp: 2402

Ion Ratio Lower Upper

101 100

103 43.3 51.9 77.9#





#13

Ethanol

Concen: 2.36 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

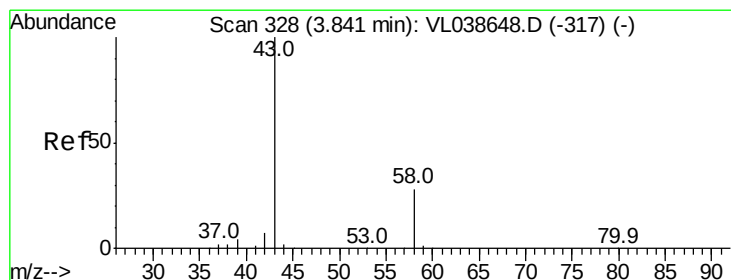
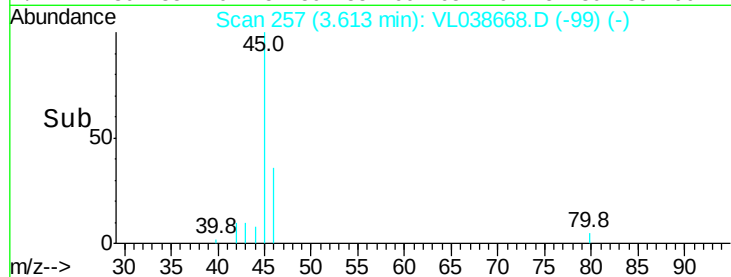
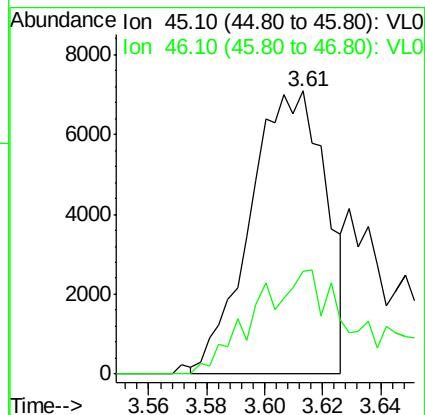
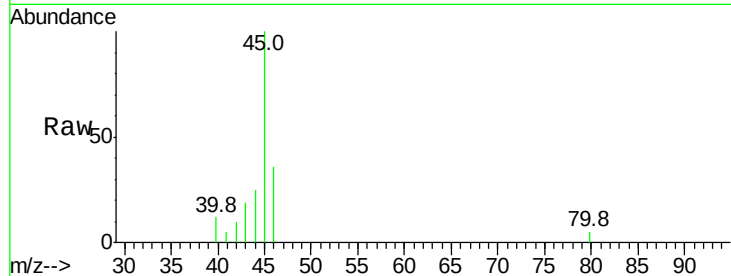
Acq: 22 Mar 2022 2:37

Tgt Ion: 45 Resp: 12864

Ion Ratio Lower Upper

45 100

46 59.3 15.1 60.5



#15

Acetone

Concen: 0.85 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.02 min

Lab File: VL038668.D

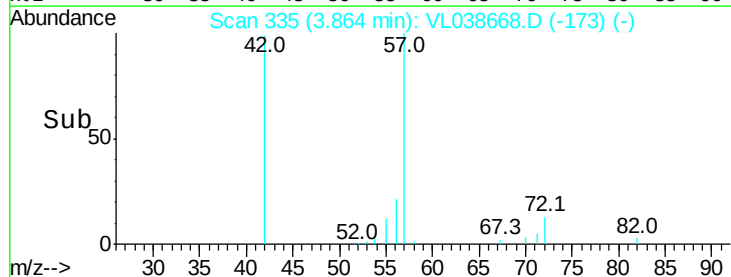
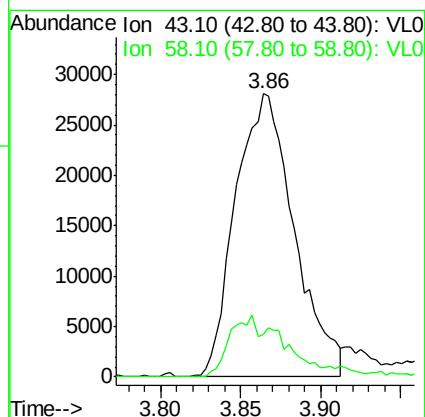
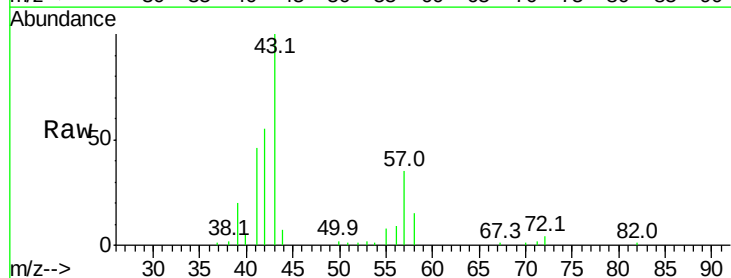
Acq: 22 Mar 2022 2:37

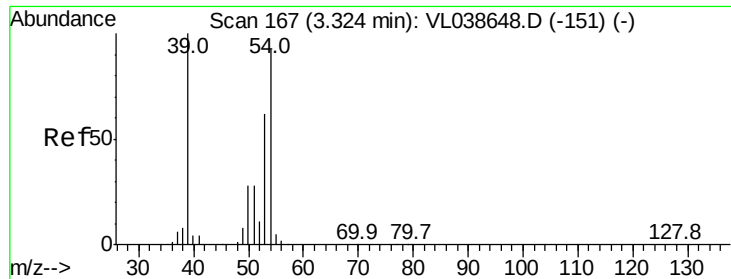
Tgt Ion: 43 Resp: 70822

Ion Ratio Lower Upper

43 100

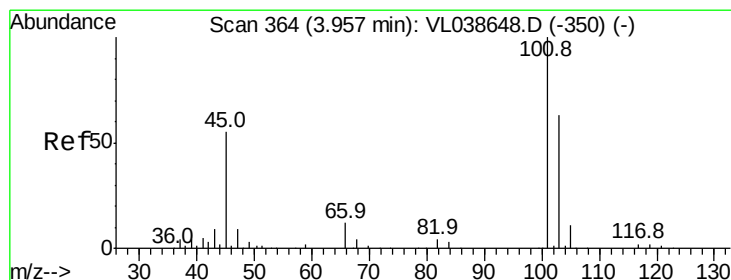
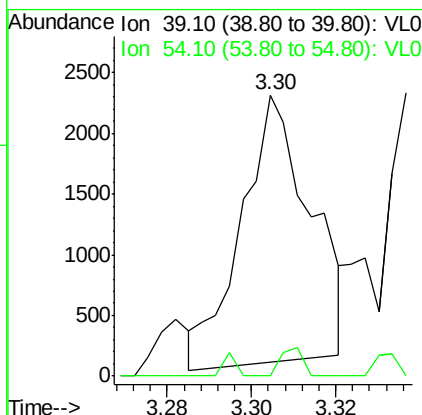
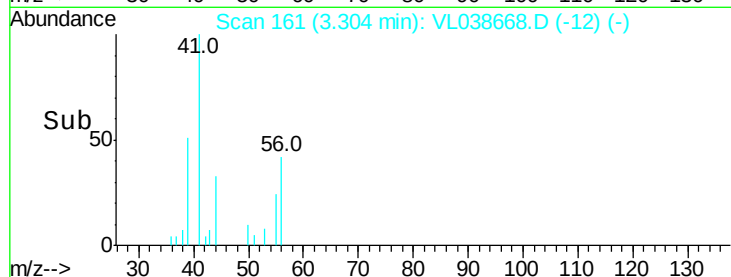
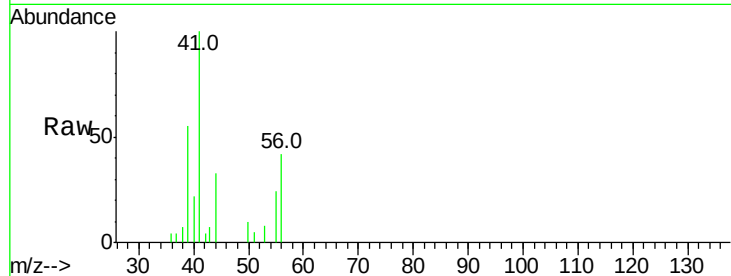
58 22.3 23.3 34.9#





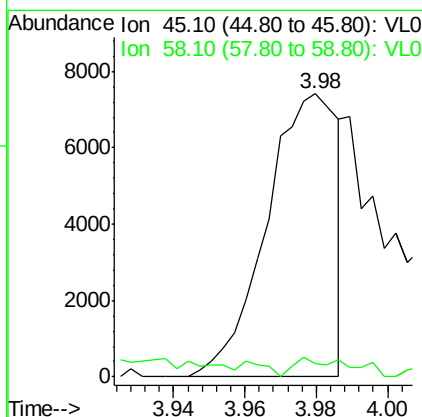
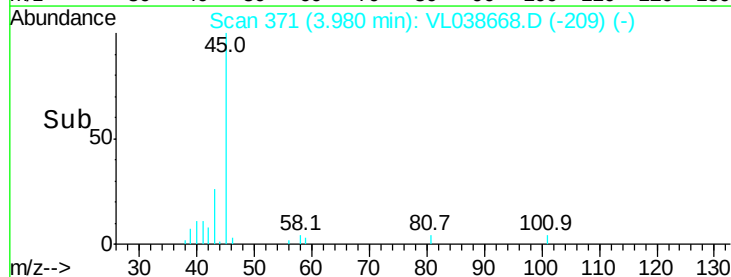
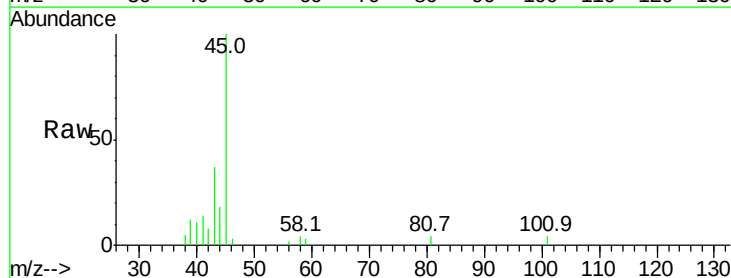
#16
 1,3-Butadiene
 Concen: 0.05 ppbv
 RT: 3.30 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: COP81DL
 Acq: 22 Mar 2022 2:37

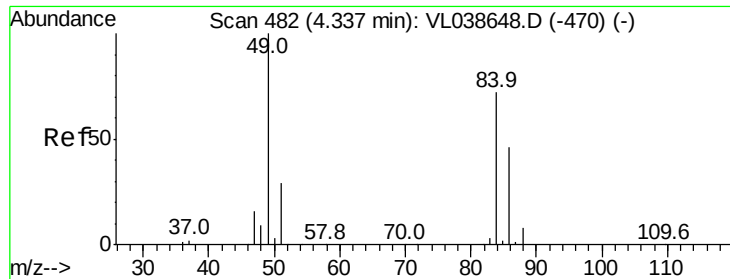
Tgt Ion: 39 Resp: 2507
 Ion Ratio Lower Upper
 39 100
 54 4.7 69.1 103.7#



#19
 Isopropyl Alcohol
 Concen: 0.22 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.02 min
 Lab File: VL038668.D
 Acq: 22 Mar 2022 2:37

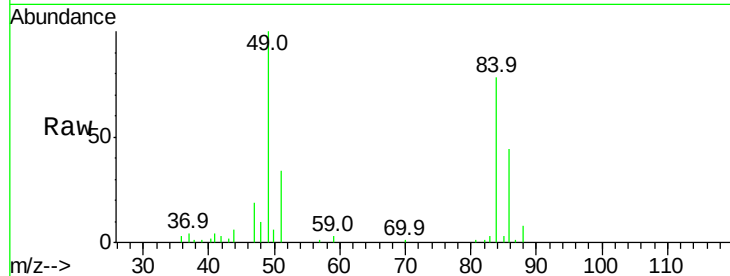
Tgt Ion: 45 Resp: 10244
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.3 3.5#



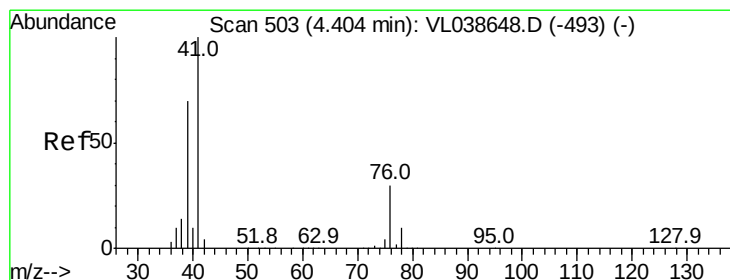
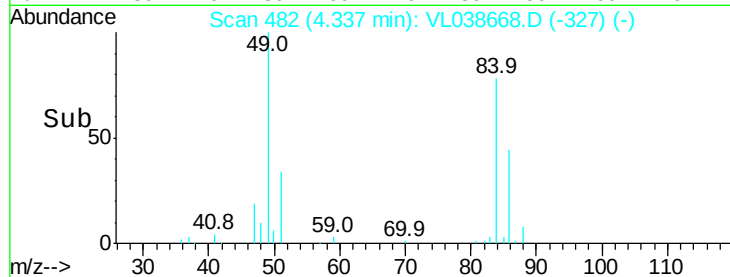
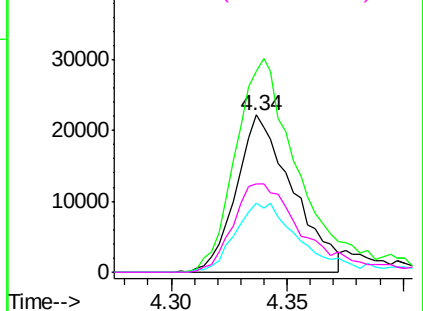


#20
Methylene Chloride
Concen: 1.06 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Mar 2022 2:37

Tgt Ion:	84	Resp:	37437
Ion	Ratio	Lower	Upper
84	100		
49	126.7	111.2	166.8
51	43.6	32.8	49.2
86	56.0	51.4	77.0

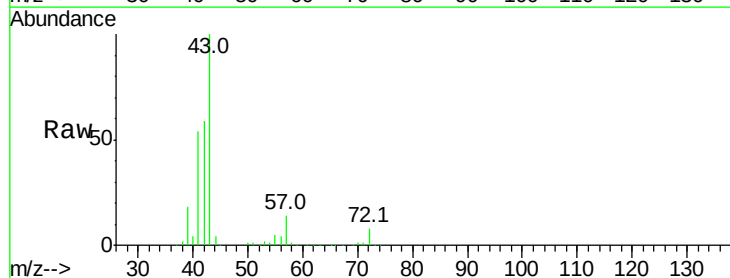


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

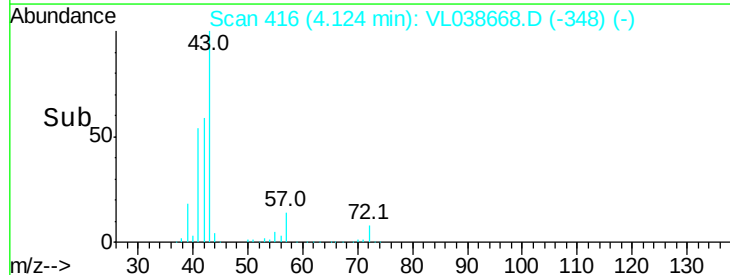
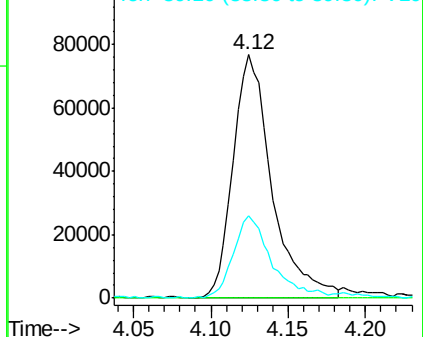


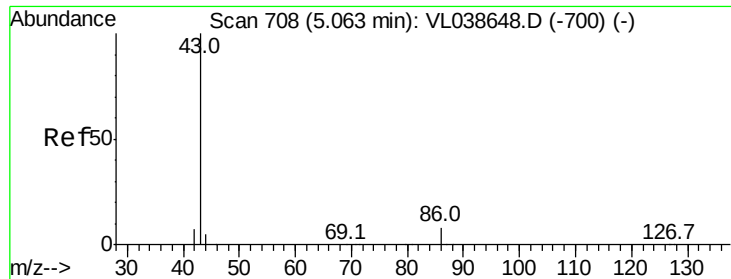
#21
Allyl Chloride
Concen: 2.23 ppbv
RT: 4.12 min Scan# 416
Delta R.T. -0.28 min
Lab File: VL038668.D
Acq: 22 Mar 2022 2:37

Tgt Ion:	41	Resp:	134421
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.0	37.6#
39	35.3	56.6	85.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.14 ppbv

RT: 5.05 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Mar 2022 2:37

Tgt Ion: 43 Resp: 11533

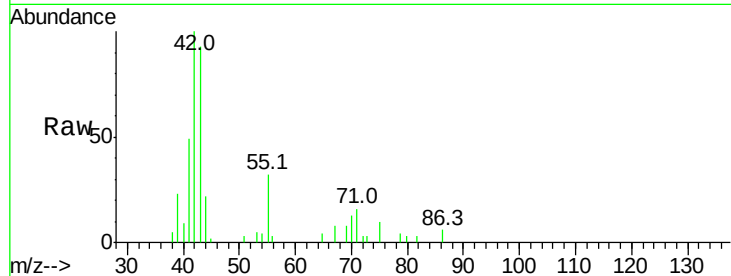
Ion Ratio Lower Upper

43 100

86 6.1 5.6 8.4

42 107.6 6.8 10.2#

44 8.0 4.2 6.2#

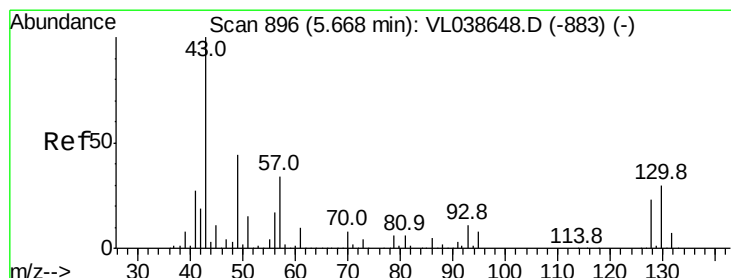
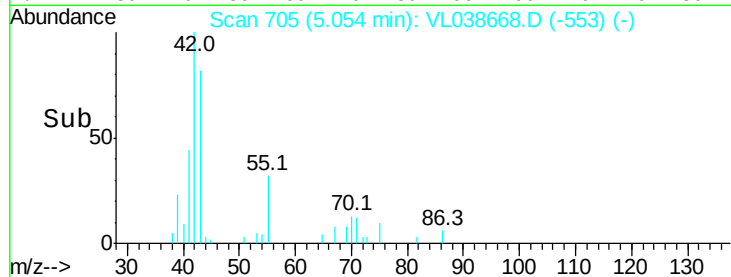
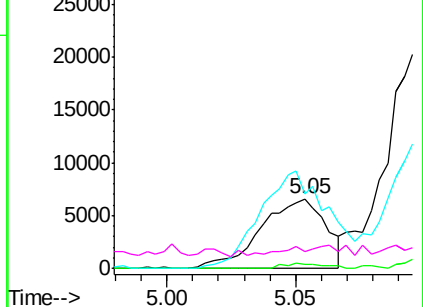


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.12 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL038668.D

Acq: 22 Mar 2022 2:37

Tgt Ion: 43 Resp: 25176

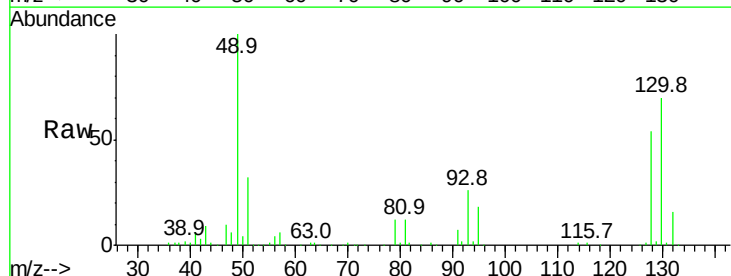
Ion Ratio Lower Upper

43 100

45 10.1 8.2 12.4

61 6.6 8.3 12.5#

70 5.5 5.6 8.4#

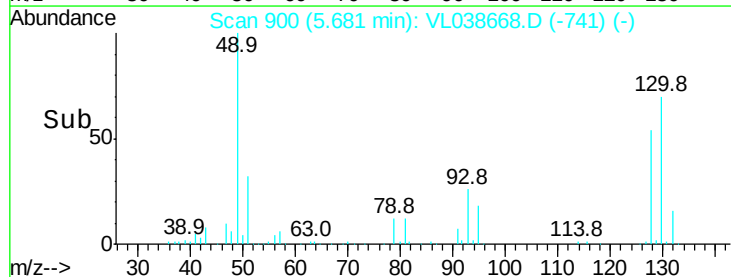
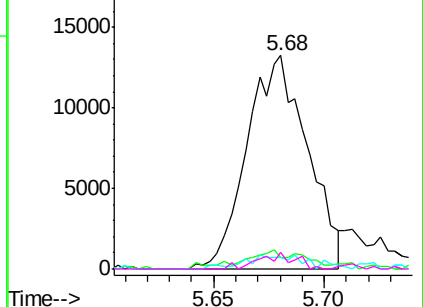


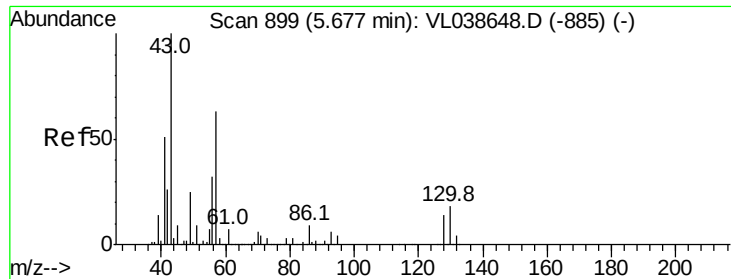
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.12 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Mar 2022 2:37

Tgt Ion: 57 Resp: 11108

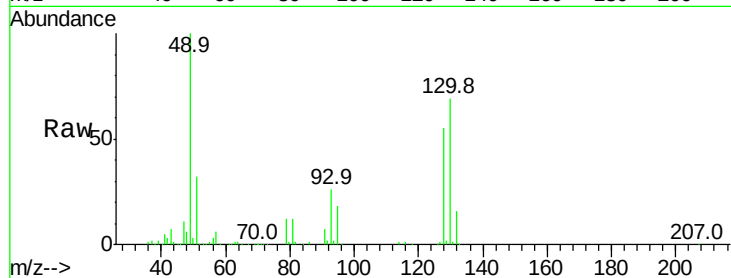
Ion Ratio Lower Upper

57 100

41 175.4 67.0 100.4#

43 0.0 184.2 276.2#

56 104.9 42.6 64.0#

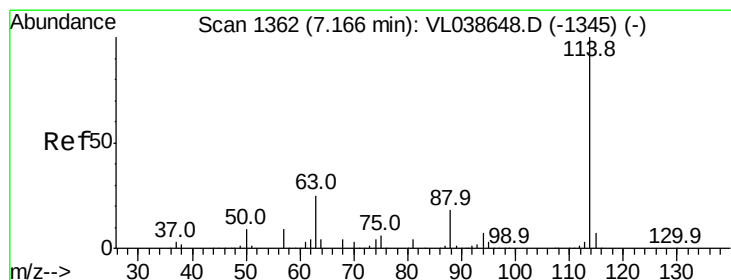
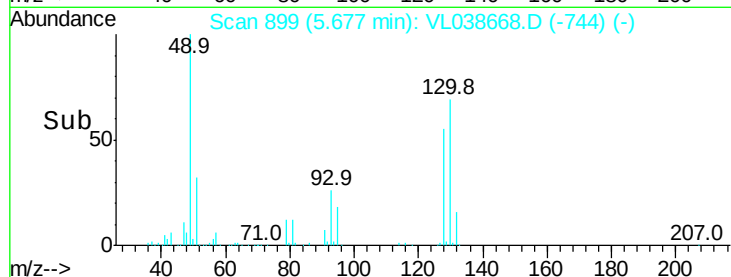
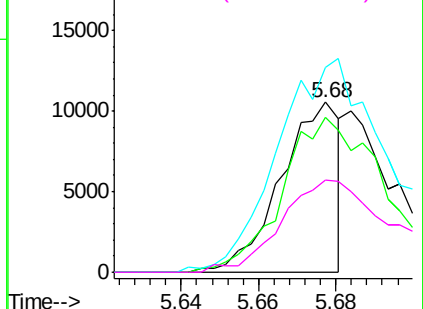


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VL038668.D

Acq: 22 Mar 2022 2:37

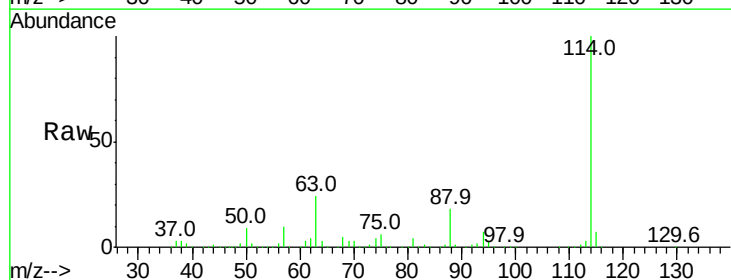
Tgt Ion: 114 Resp: 2503917

Ion Ratio Lower Upper

114 100

63 23.4 19.4 29.0

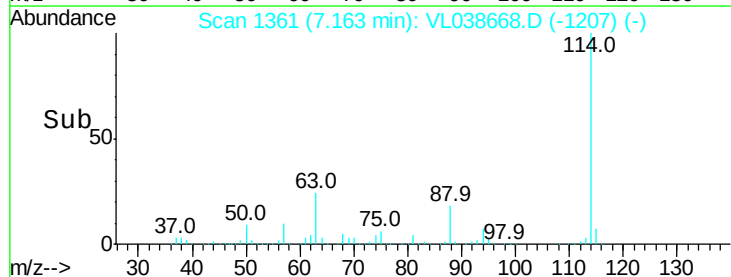
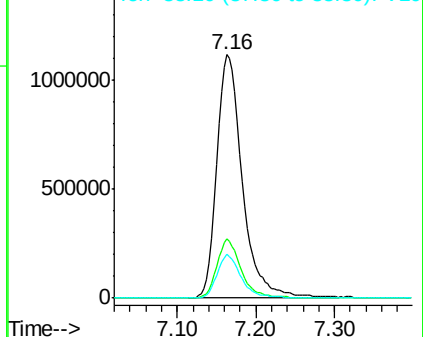
88 17.0 13.9 20.9

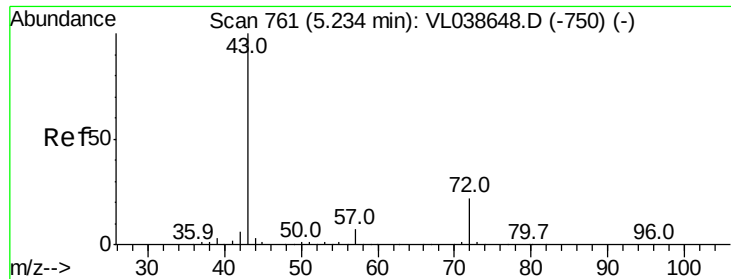


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.30 ppbv

RT: 5.25 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

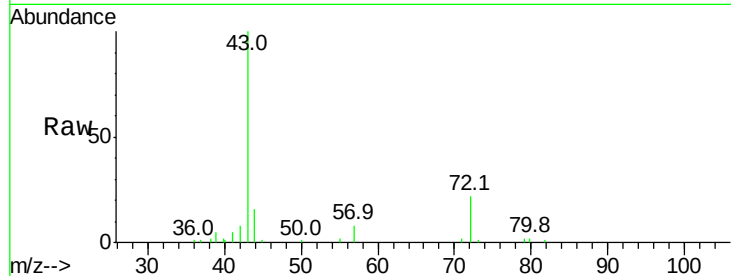
Acq: 22 Mar 2022 2:37

Tgt Ion: 43 Resp: 29533

Ion Ratio Lower Upper

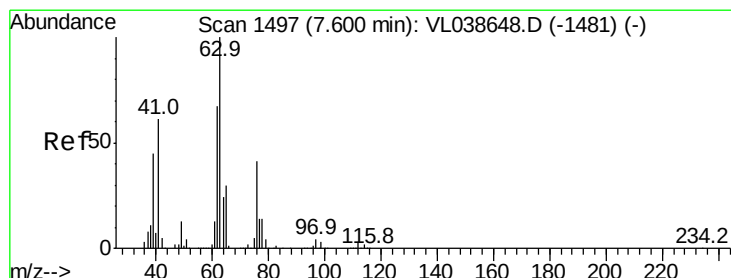
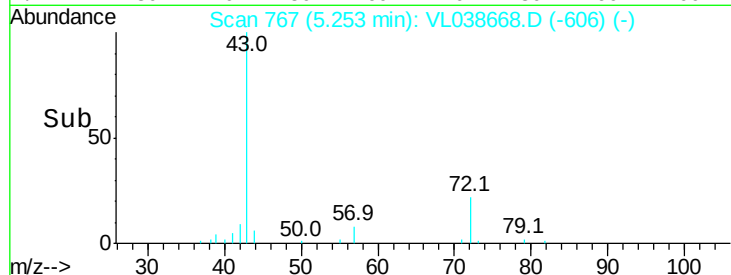
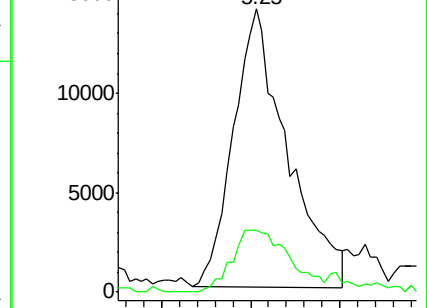
43 100

72 28.0 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: 7.58 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.44 min

Lab File: VL038668.D

Acq: 22 Mar 2022 2:37

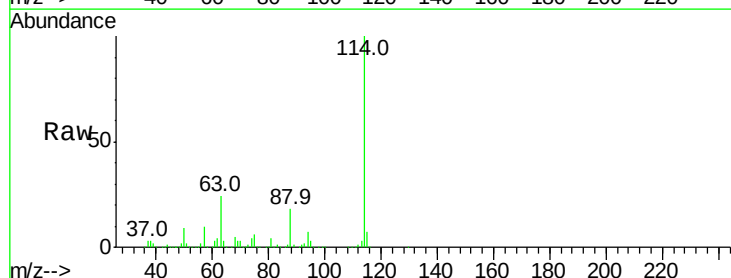
Tgt Ion: 63 Resp: 572609

Ion Ratio Lower Upper

63 100

41 0.0 49.0 73.6#

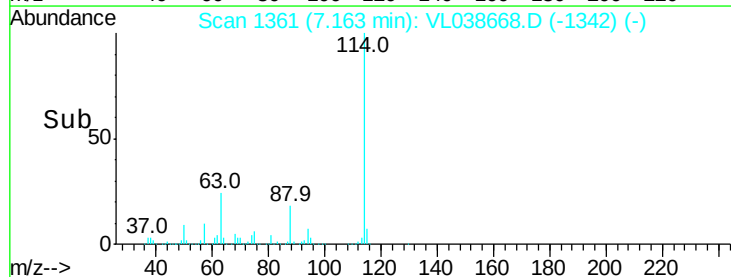
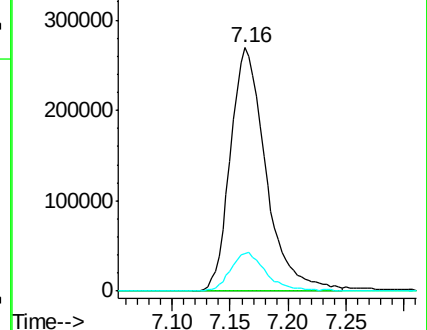
62 15.3 53.9 80.9#

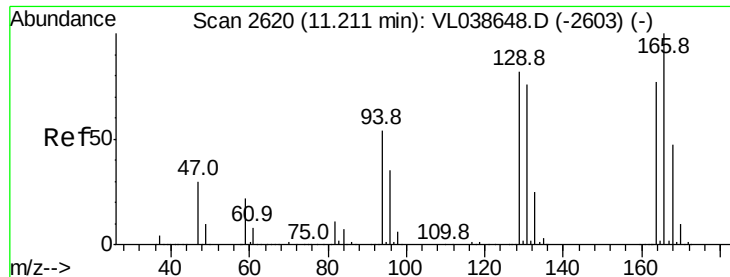


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.45 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Mar 2022 2:37

Tgt Ion: 164 Resp: 31511

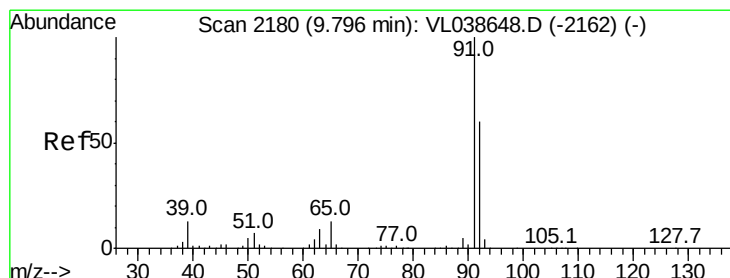
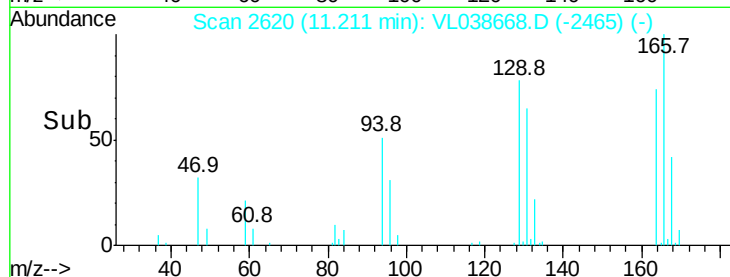
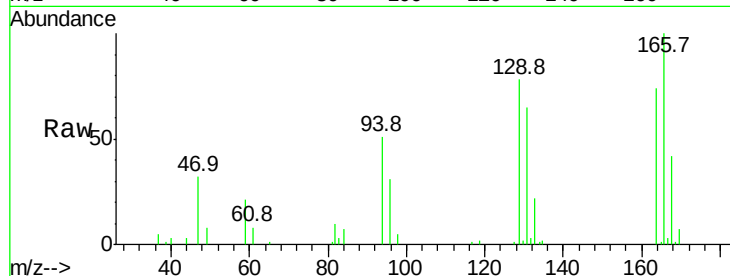
Ion Ratio Lower Upper

164 100

166 135.4 103.3 154.9

129 111.3 85.2 127.8

131 91.3 78.3 117.5



#53

Toluene

Concen: 0.42 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL038668.D

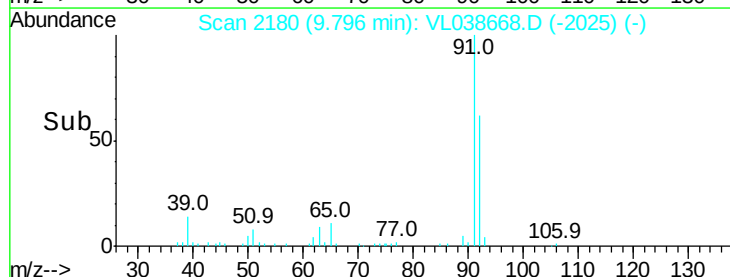
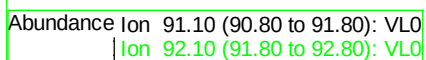
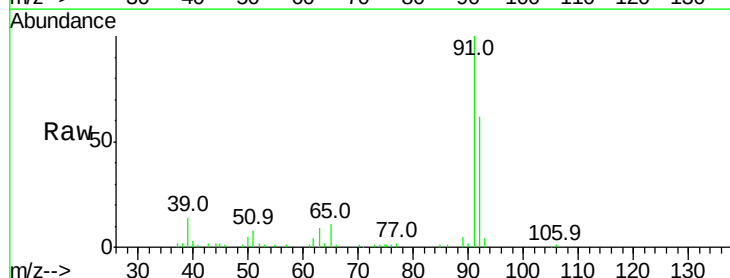
Acq: 22 Mar 2022 2:37

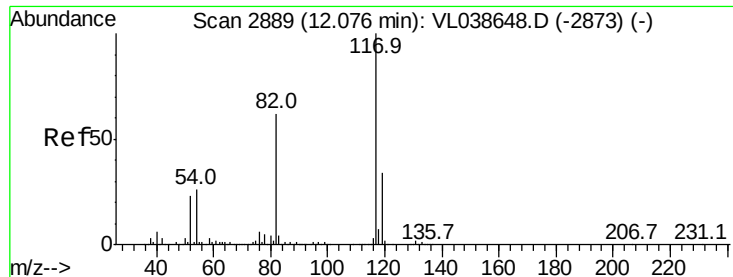
Tgt Ion: 91 Resp: 86935

Ion Ratio Lower Upper

91 100

92 60.2 48.7 73.1

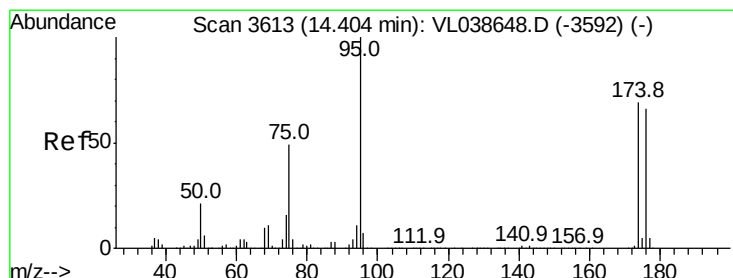
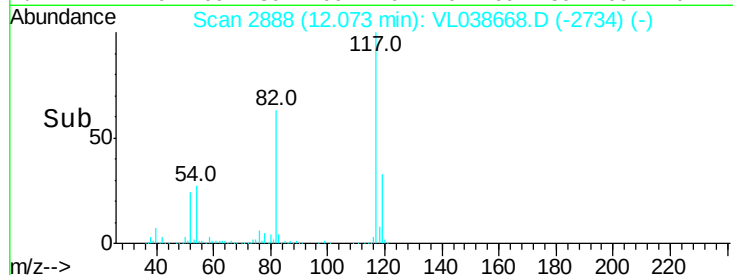
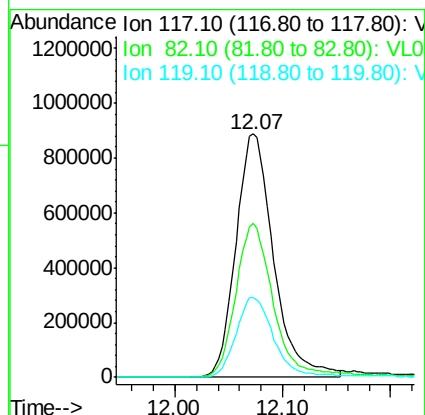
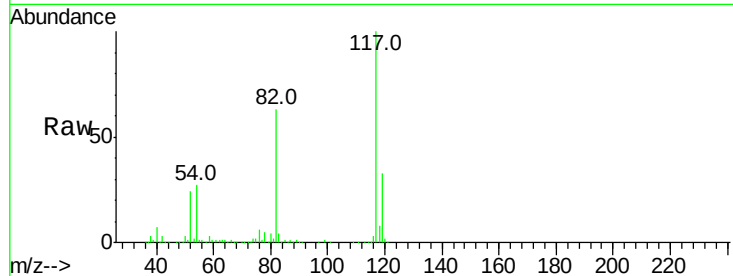




#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 C0P81DL
 Acq: 22 Mar 2022 2:37

Tgt Ion: 117 Resp: 2165553

Ion	Ratio	Lower	Upper
117	100		
82	65.3	51.6	77.4
119	34.7	26.9	40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.70 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T.: -0.00 min
 Lab File: VL038668.D
 Acq: 22 Mar 2022 2:37

Tgt Ion: 95 Resp: 1611297

Ion	Ratio	Lower	Upper
95	100		
174	72.9	56.1	84.1
175	5.2	4.2	6.2

