

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038071.D
 Acq On : 19 Nov 2021 2:19
 Operator : SY/AP
 Sample : M4751-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-1

Quant Time: Nov 22 05:24:42 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	783917	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2318591	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1944080	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1435104	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

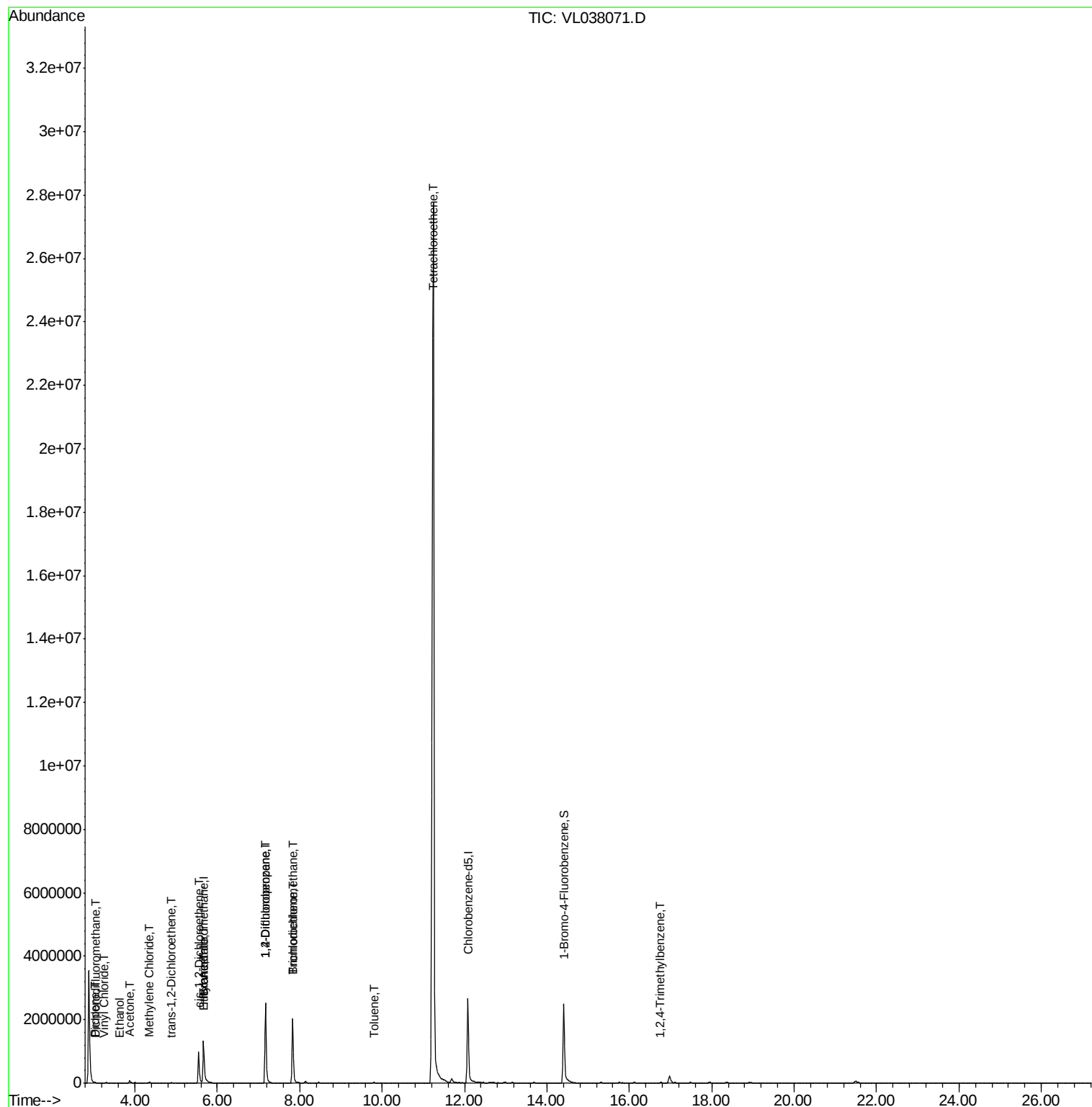
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	6283	0.049	ppbv #	82
5) Vinyl Chloride	3.26	62	3558	0.065	ppbv	100
9) Propene	3.03	41	11527	0.190	ppbv	97
13) Ethanol	3.61	45	2181	0.372	ppbv #	32
15) Acetone	3.87	43	105258	1.549	ppbv	100
20) Methylene Chloride	4.35	84	7228	0.190	ppbv #	83
22) trans-1,2-Dichloroethene	4.89	96	2872	0.071	ppbv	88
25) Ethyl Acetate	5.69	43	8351	0.037	ppbv #	85
26) Hexane	5.68	57	8646	0.079	ppbv #	55
31) cis-1,2-Dichloroethene	5.55	61	658305	6.356	ppbv	98
38) Trichloroethene	7.83	130	761190	8.725	ppbv	98
39) 1,2-Dichloropropane	7.17	63	556828	6.276	ppbv #	27
42) Bromodichloromethane	7.82	83	5481	0.032	ppbv	90
52) Tetrachloroethene	11.24	164	10442431	122.022	ppbv	88
53) Toluene	9.80	91	13550	0.051	ppbv #	33
74) 1,2,4-Trimethylbenzene	16.76	105	9194	0.034	ppbv #	59

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 2:19

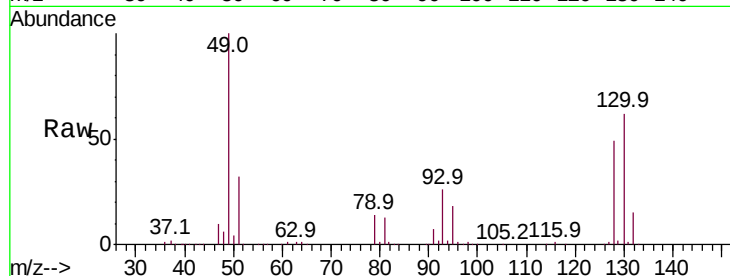
Tot Ion: 49 Resp: 783917

Ion Ratio Lower Upper

49 100

128 51.9 26.5 79.5

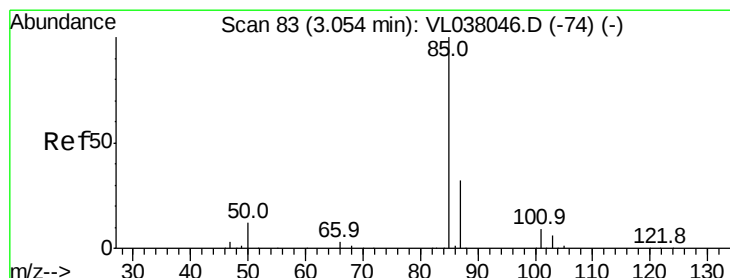
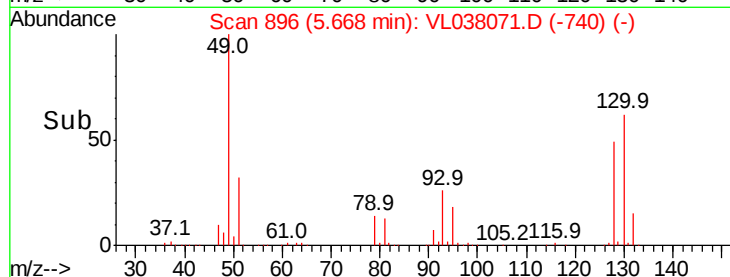
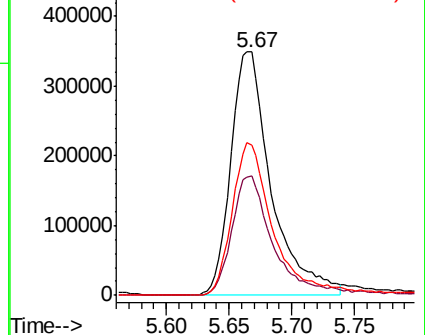
130 65.3 32.5 97.4



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



#2

Dichlorodifluoromethane

Concen: 0.049 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038071.D

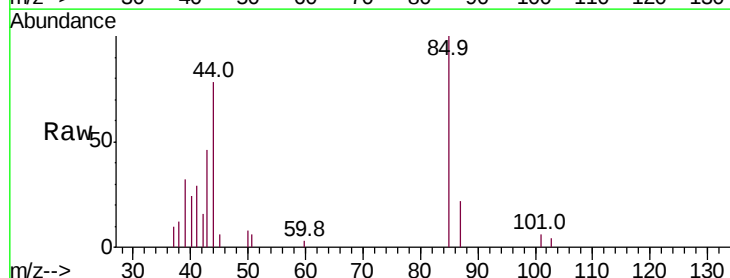
Acq: 19 Nov 2021 2:19

Tgt Ion: 85 Resp: 6283

Ion Ratio Lower Upper

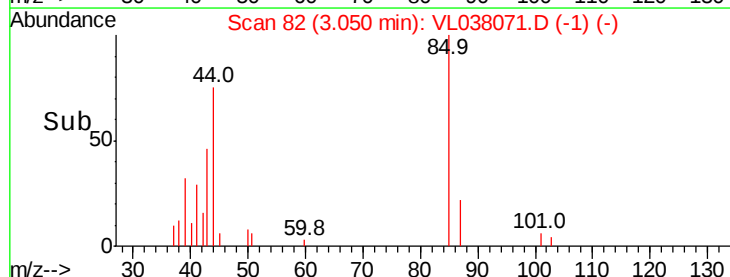
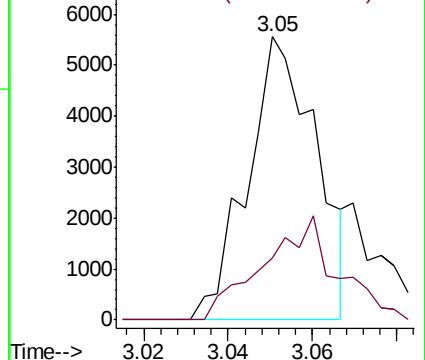
85 100

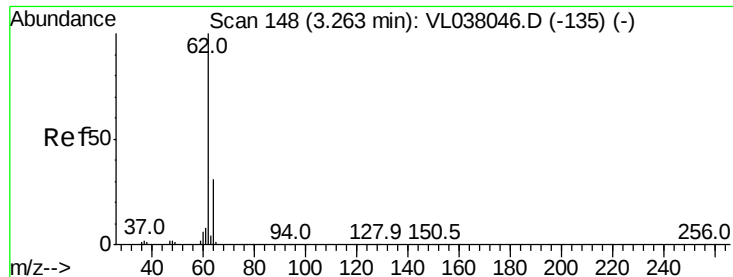
87 22.1 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#5

Vinyl Chloride

Concen: 0.065 ppbv

RT: 3.26 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVP-1

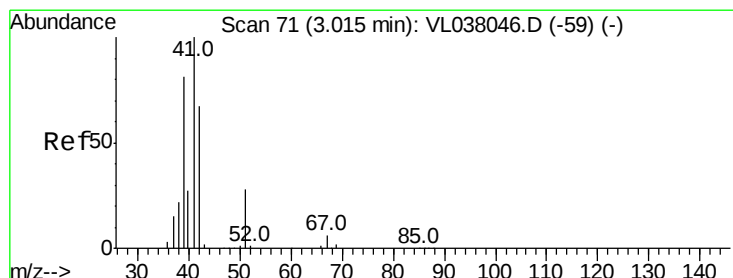
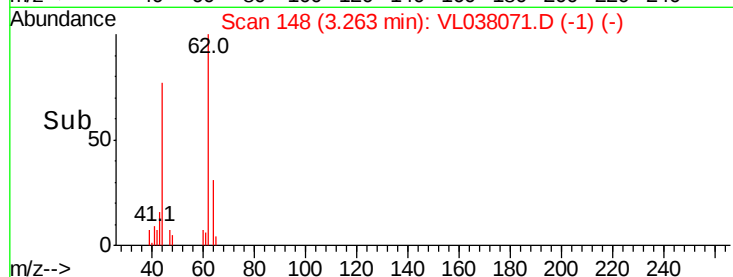
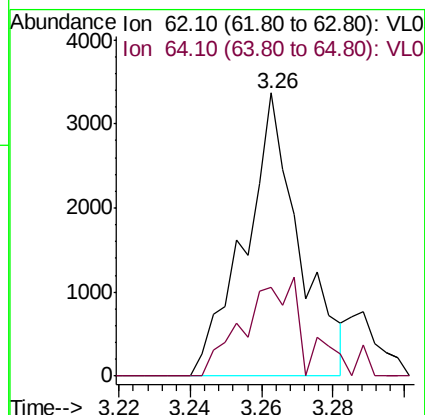
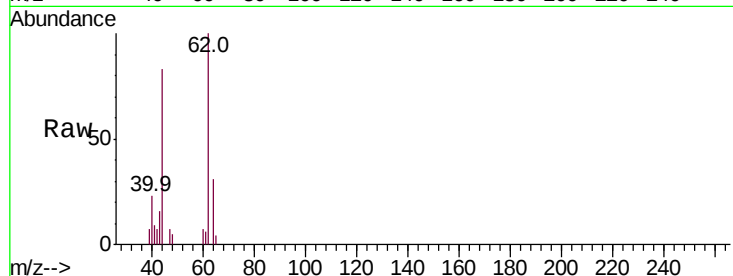
Acq: 19 Nov 2021 2:19

Tot Ion: 62 Resp: 3558

Ion Ratio Lower Upper

62 100

64 31.4 25.1 37.7



#9

Propene

Concen: 0.190 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL038071.D

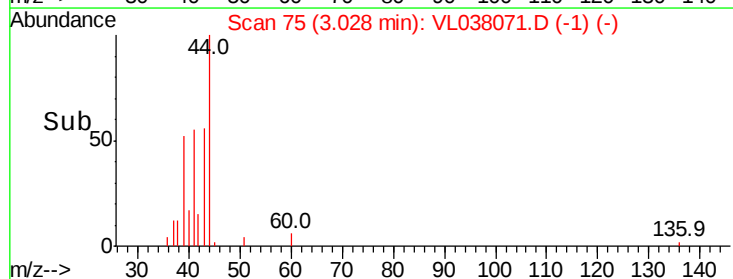
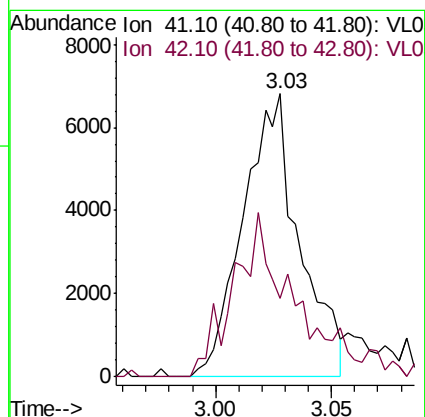
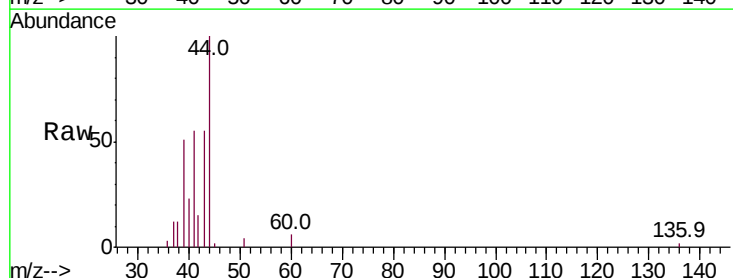
Acq: 19 Nov 2021 2:19

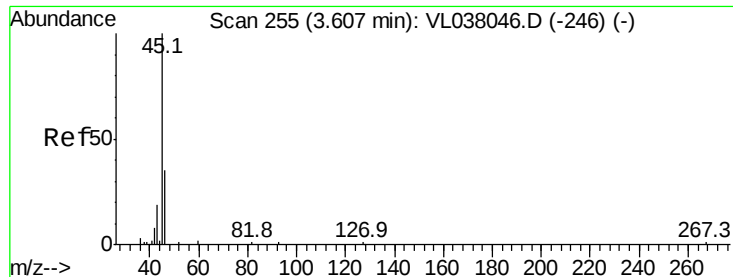
Tgt Ion: 41 Resp: 11527

Ion Ratio Lower Upper

41 100

42 64.5 53.8 80.8





#13

Ethanol

Concen: 0.372 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

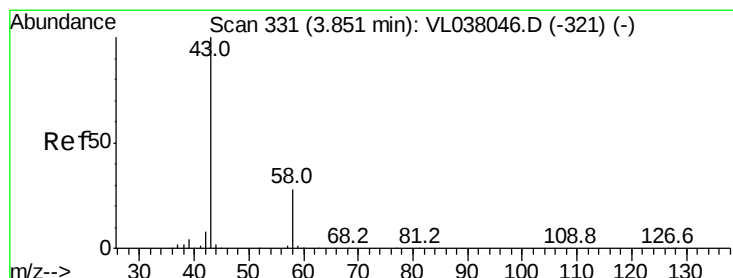
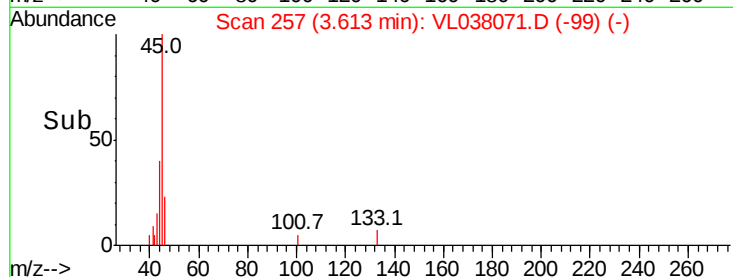
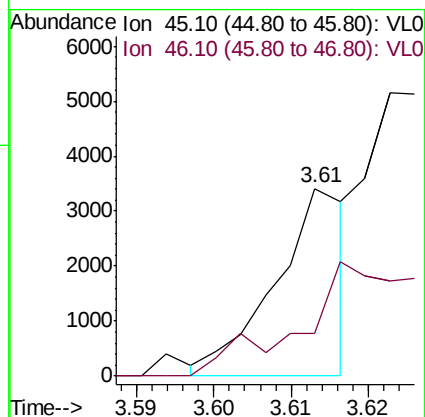
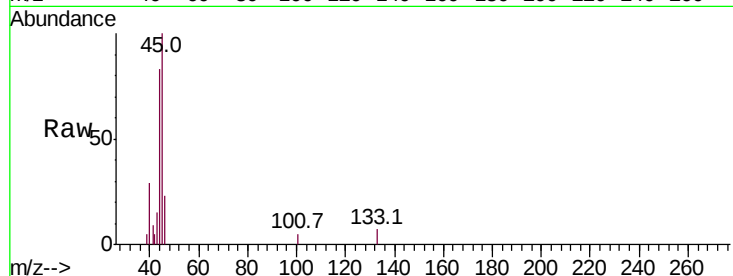
Acq: 19 Nov 2021 2:19 SVP-1

Tot Ion: 45 Resp: 2181

Ion Ratio Lower Upper

45 100

46 0.0 17.6 70.2#



#15

Acetone

Concen: 1.549 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL038071.D

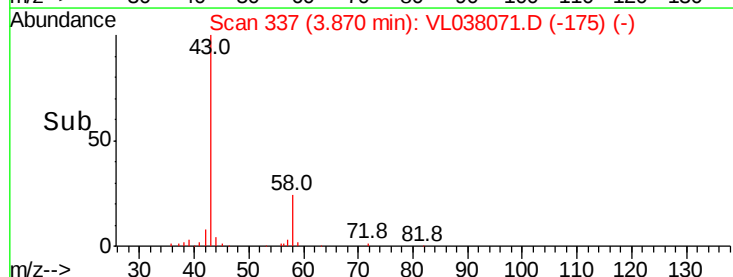
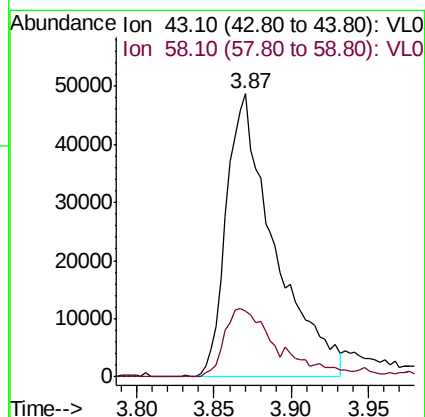
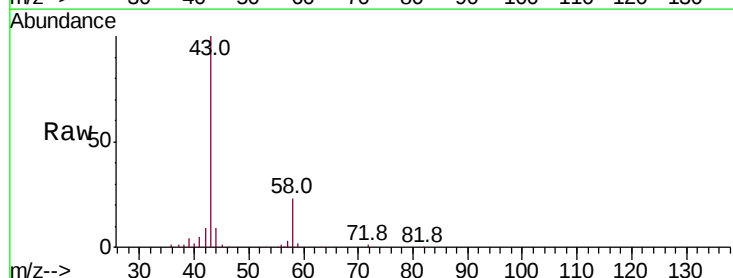
Acq: 19 Nov 2021 2:19

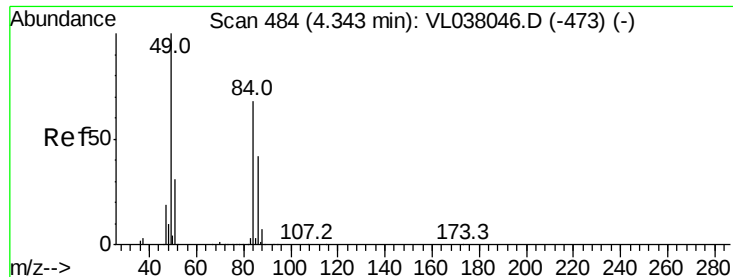
Tgt Ion: 43 Resp: 105258

Ion Ratio Lower Upper

43 100

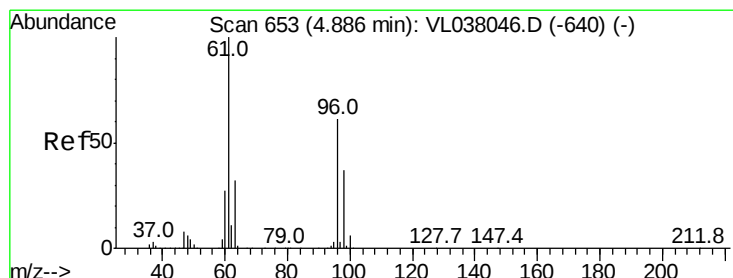
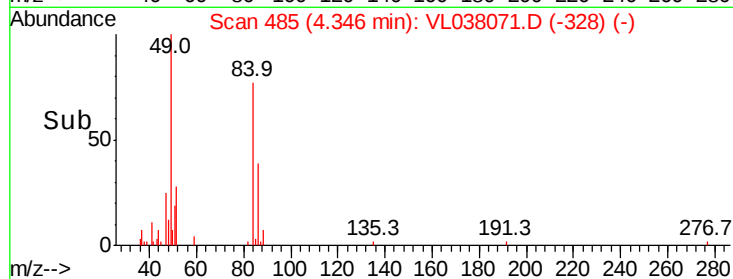
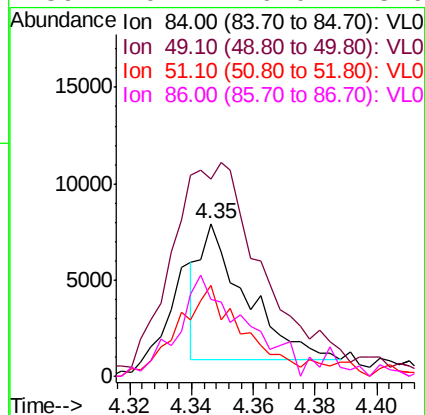
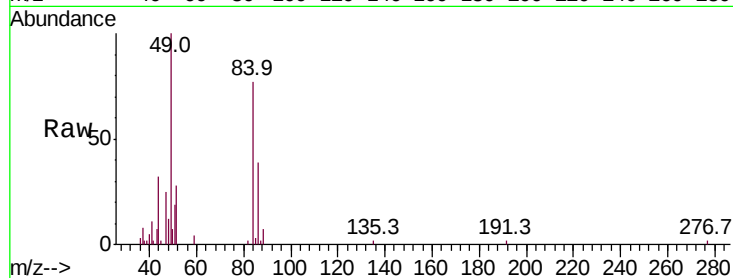
58 28.0 22.4 33.6





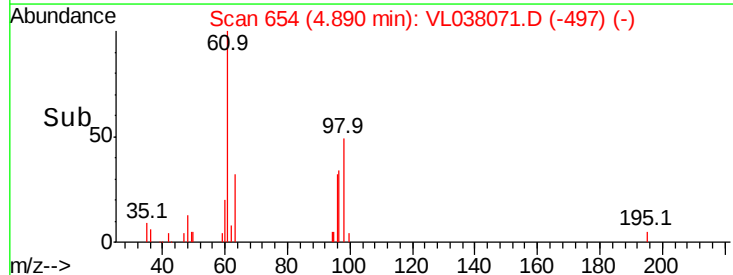
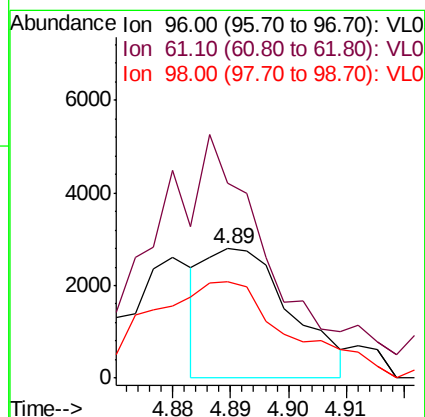
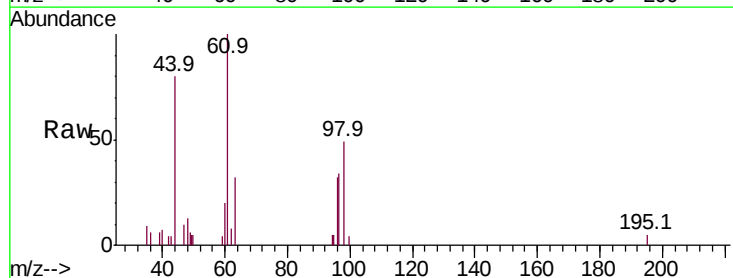
#20
Methylene Chloride
Concen: 0.190 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Nov 2021 2:19

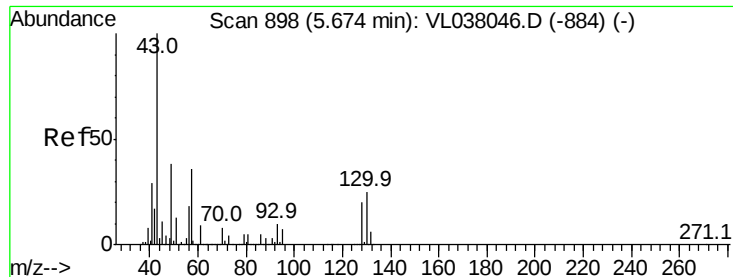
Tot Ion: 84 Resp: 7228
Ion Ratio Lower Upper
84 100
49 125.8 118.2 177.2
51 56.6 36.8 55.2#
86 49.7 49.0 73.6



#22
trans-1,2-Dichloroethene
Concen: 0.071 ppbv
RT: 4.89 min Scan# 654
Delta R.T. 0.00 min
Lab File: VL038071.D
Acq: 19 Nov 2021 2:19

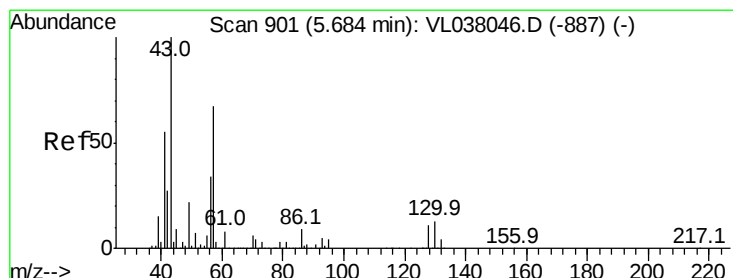
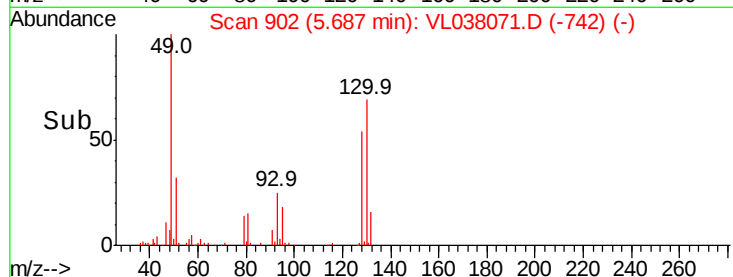
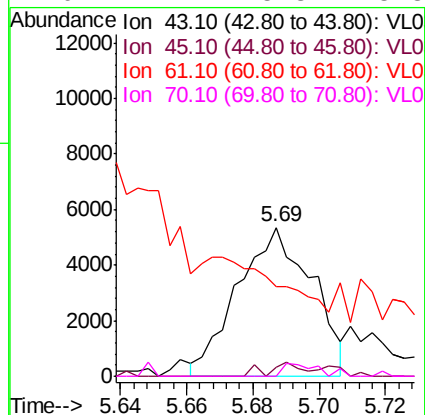
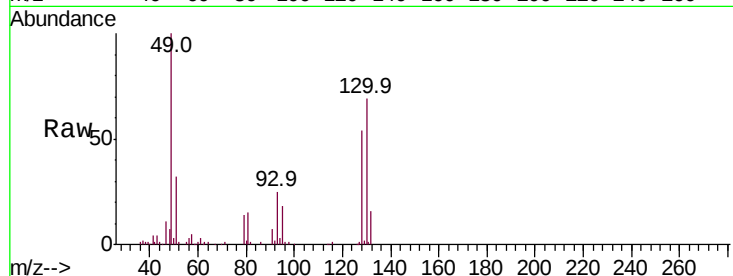
Tgt Ion: 96 Resp: 2872
Ion Ratio Lower Upper
96 100
61 147.7 131.6 197.4
98 67.3 48.4 72.6





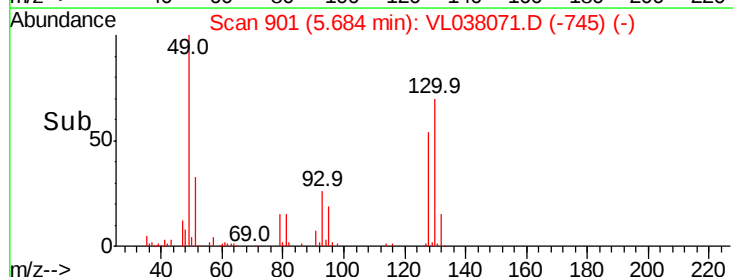
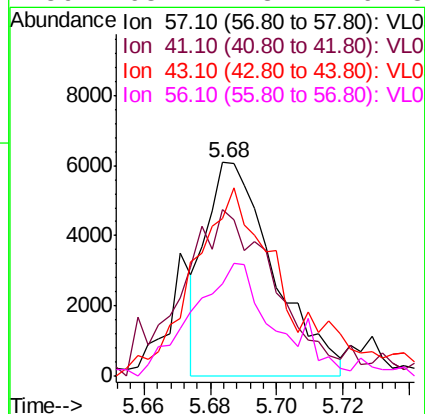
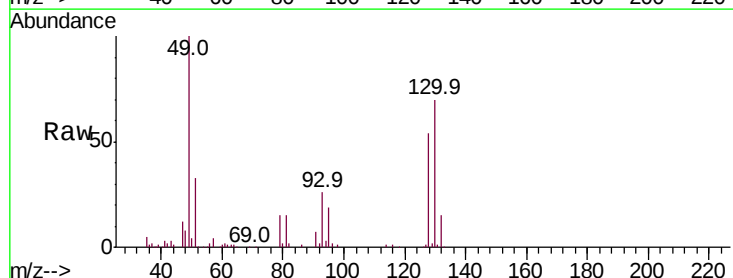
#25
Ethyl Acetate
Concen: 0.037 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 19 Nov 2021 2:19

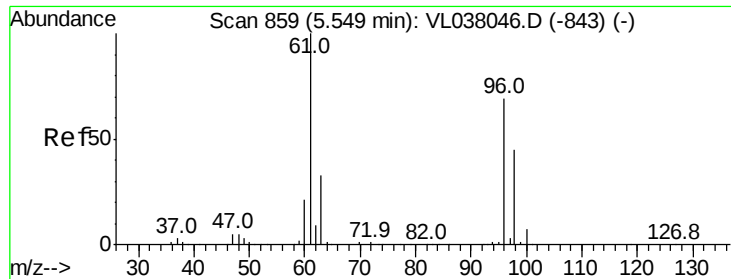
Tot Ion:	43	Resp:	8351
Ion	Ratio	Lower	Upper
43	100		
45	6.4	7.9	11.9#
61	0.0	7.8	11.6#
70	4.1	5.8	8.8#



#26
Hexane
Concen: 0.079 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL038071.D
Acq: 19 Nov 2021 2:19

Tgt Ion:	57	Resp:	8646
Ion	Ratio	Lower	Upper
57	100		
41	118.3	71.4	107.2#
43	128.3	174.6	261.8#
56	68.7	43.2	64.8#





#31

cis-1,2-Dichloroethene

Concen: 6.356 ppbv

RT: 5.55 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: SVP-1

Acq: 19 Nov 2021 2:19

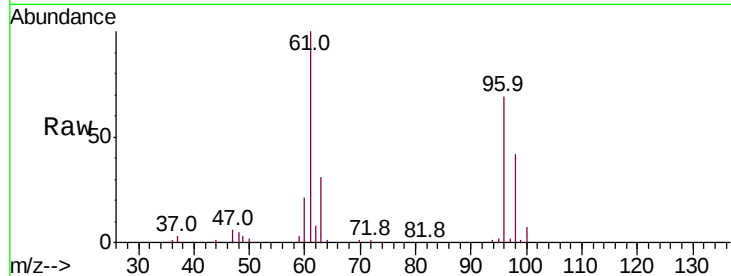
Tot Ion: 61 Resp: 658305

Ion Ratio Lower Upper

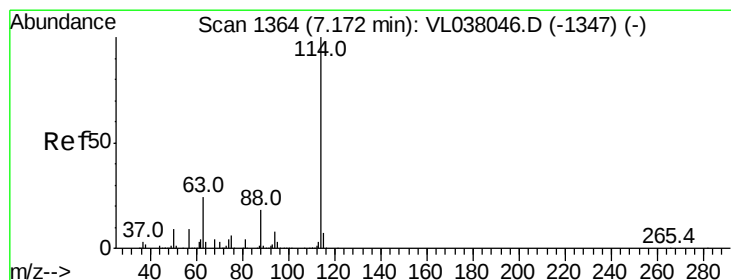
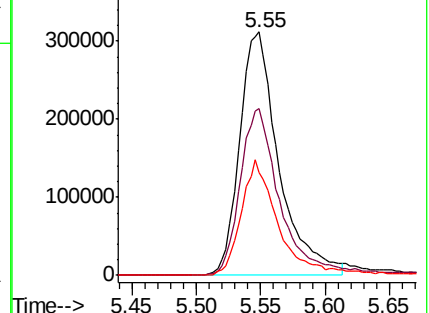
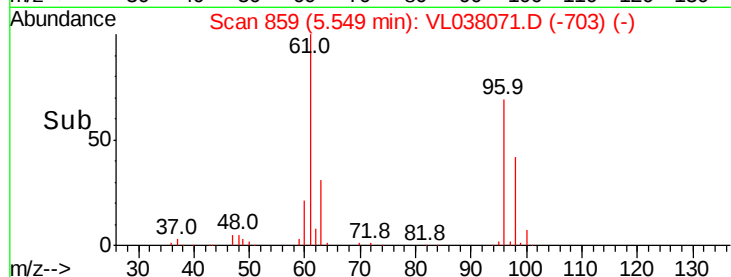
61 100

96 68.5 55.4 83.2

98 42.1 35.7 53.5



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VL038071.D

Acq: 19 Nov 2021 2:19

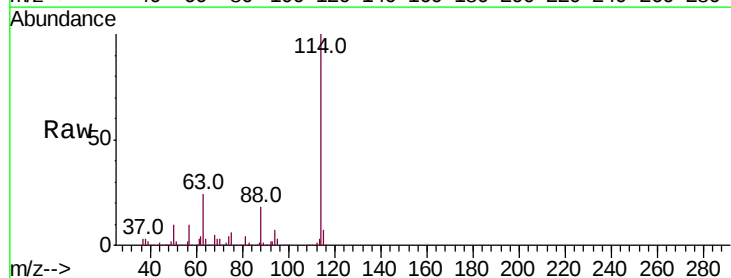
Tgt Ion: 114 Resp: 2318591

Ion Ratio Lower Upper

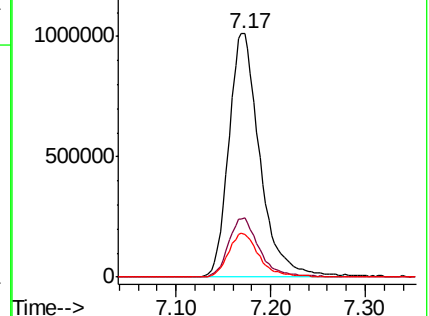
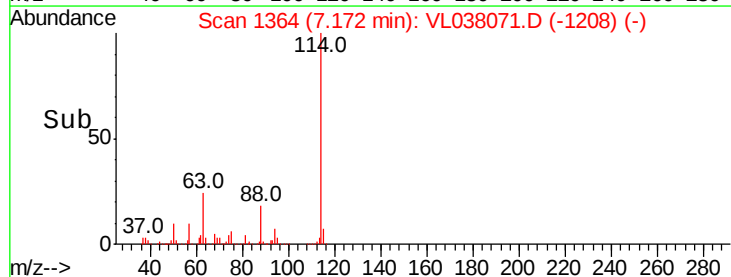
114 100

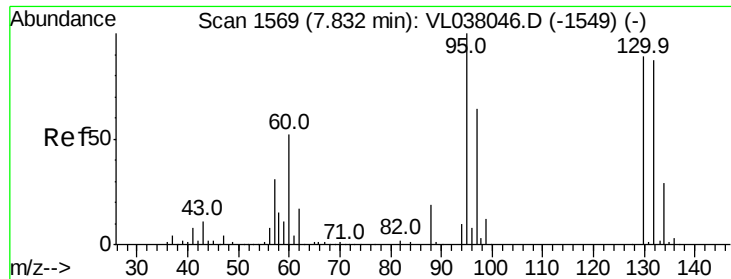
63 24.5 19.7 29.5

88 18.0 14.4 21.6



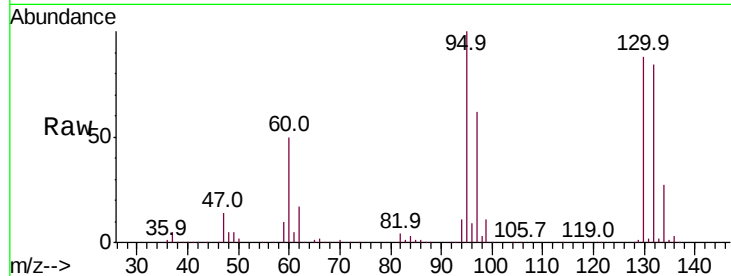
Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



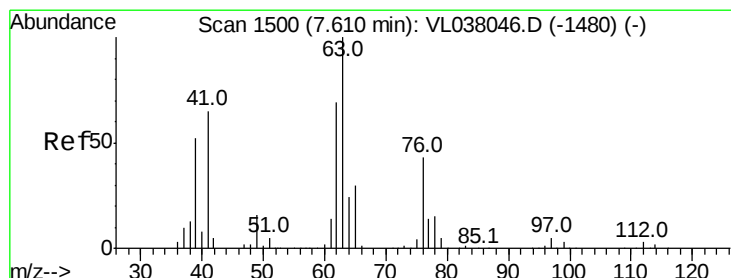
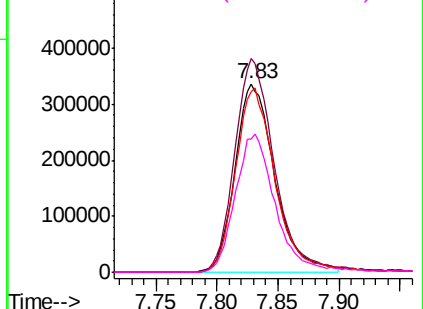
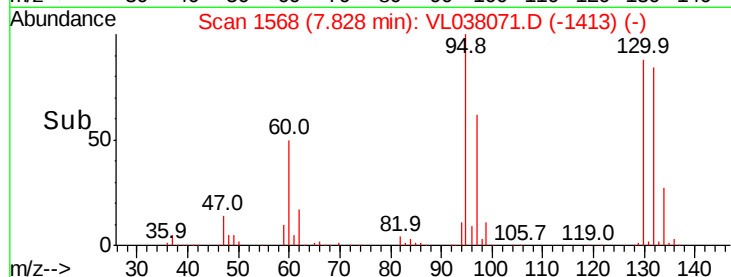


#38
 Trichloroethene
 Concen: 8.725 ppbv
 RT: 7.83
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-1
 Acq: 19 Nov 2021 2:19

Tot Ion:	130	Resp:	761190
Ion	Ratio	Lower	Upper
130	100		
95	113.2	89.4	134.2
132	95.4	78.2	117.2
97	70.5	57.0	85.4

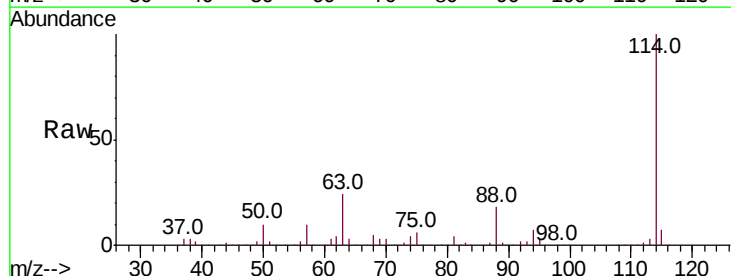


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

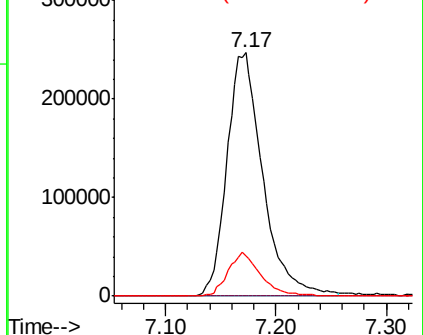
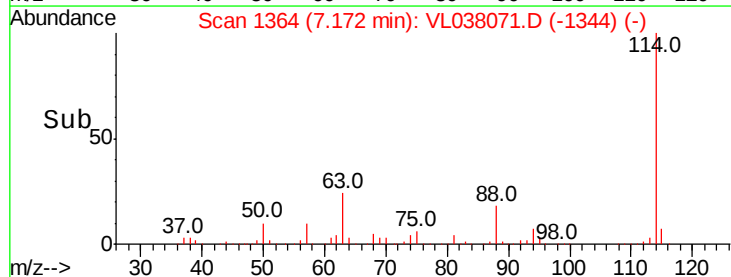


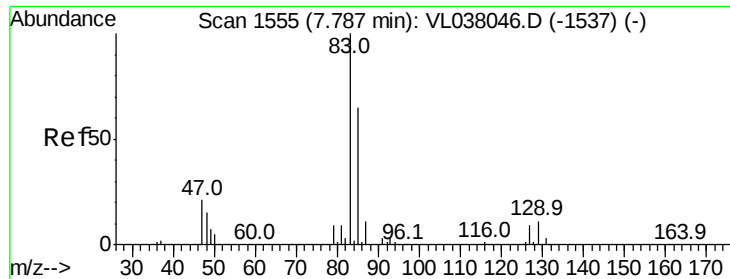
#39
 1,2-Dichloropropane
 Concen: 6.276 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.44 min
 Lab File: VL038071.D
 Acq: 19 Nov 2021 2:19

Tgt Ion:	63	Resp:	556828
Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	16.4	55.1	82.7#



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





#42

Bromodichloromethane

Concen: 0.032 ppbv

RT: 7.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 2:19

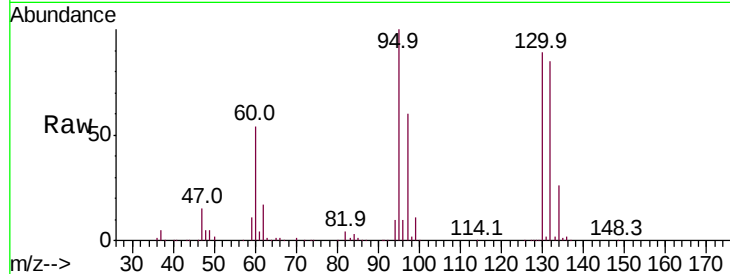
Tot Ion: 83 Resp: 5481

Ion Ratio Lower Upper

83 100

85 56.3 51.9 77.9

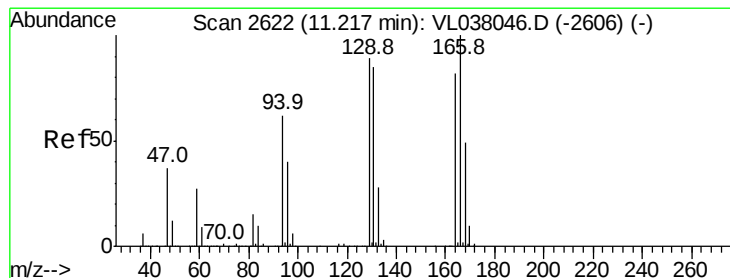
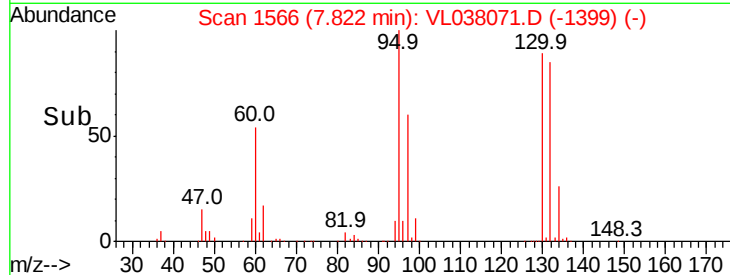
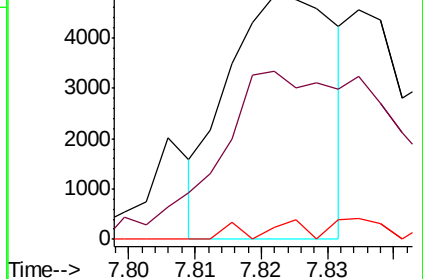
127 7.2 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#52

Tetrachloroethene

Concen: 122.022 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. 0.03 min

Lab File: VL038071.D

Acq: 19 Nov 2021 2:19

Tgt Ion:164 Resp:10442431

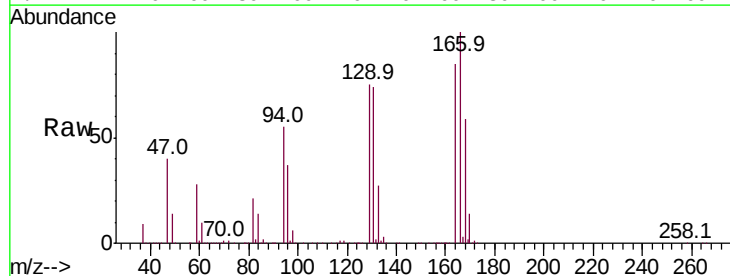
Ion Ratio Lower Upper

164 100

166 118.0 97.2 145.8

129 88.8 86.9 130.3

131 87.6 82.8 124.2

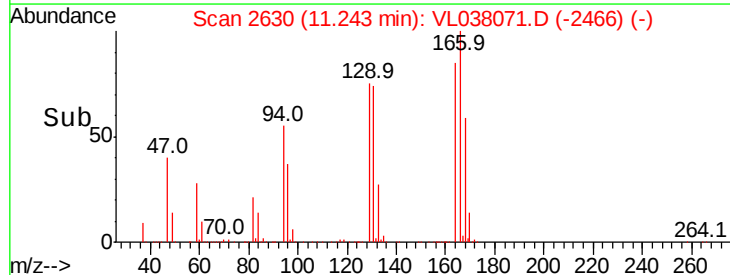
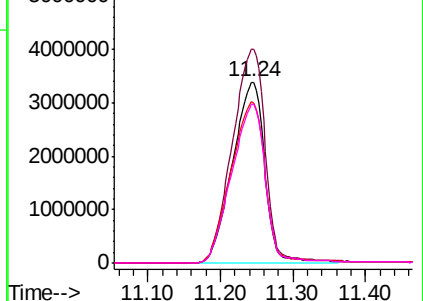


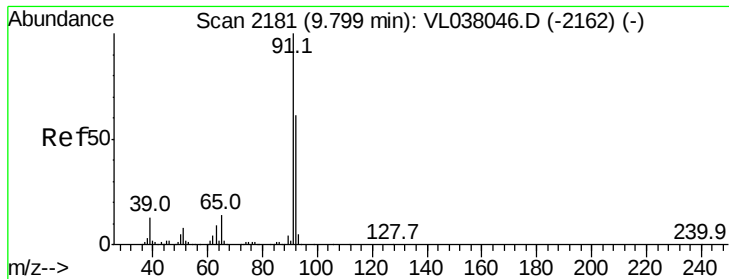
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.051 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

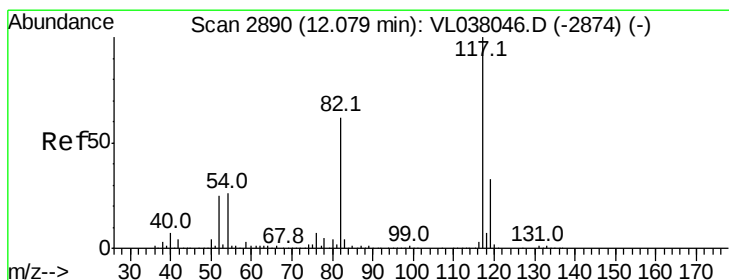
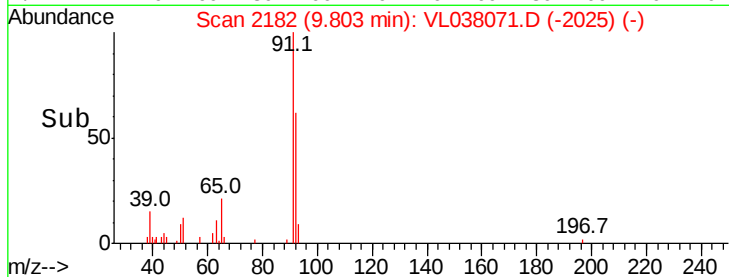
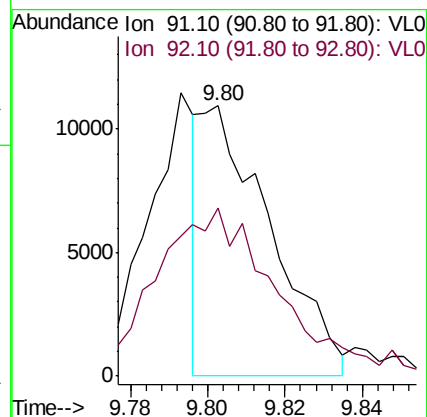
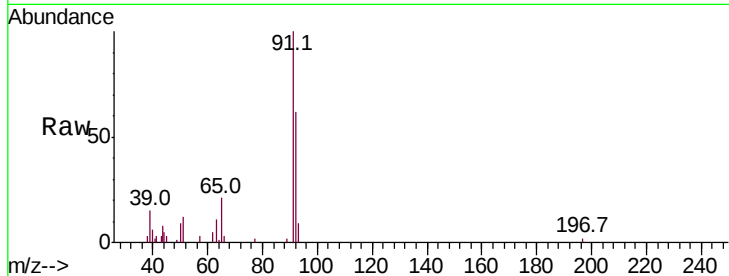
Acq: 19 Nov 2021 2:19

Tot Ion: 91 Resp: 13550

Ion Ratio Lower Upper

91 100

92 113.8 49.7 74.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.00 min

Lab File: VL038071.D

Acq: 19 Nov 2021 2:19

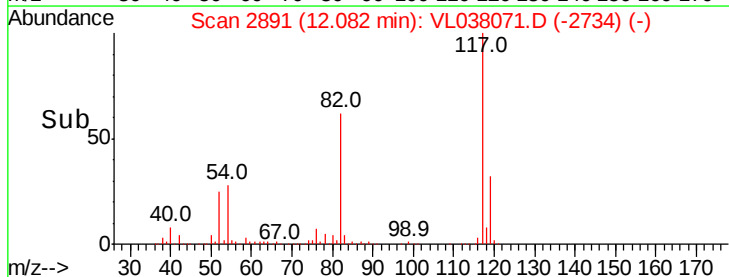
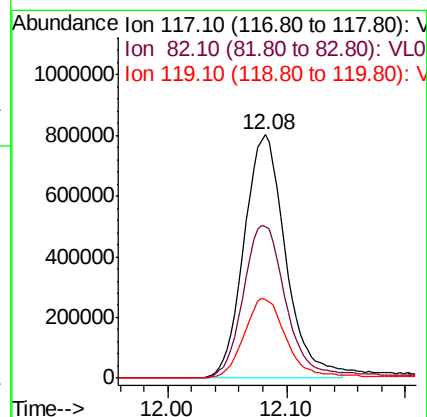
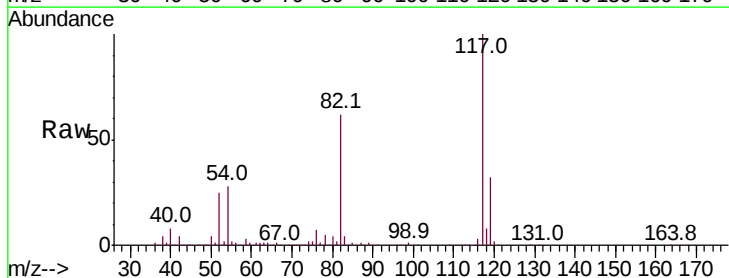
Tgt Ion: 117 Resp: 1944080

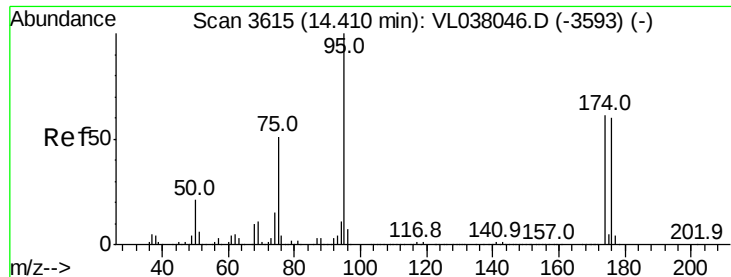
Ion Ratio Lower Upper

117 100

82 67.5 52.8 79.2

119 34.9 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.234 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SVP-1

Acq: 19 Nov 2021 2:19

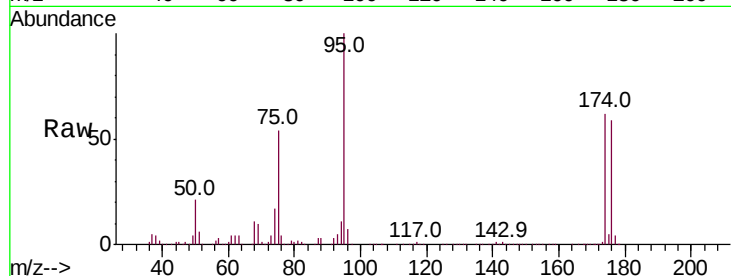
Tot Ion: 95 Resp: 1435104

Ion Ratio Lower Upper

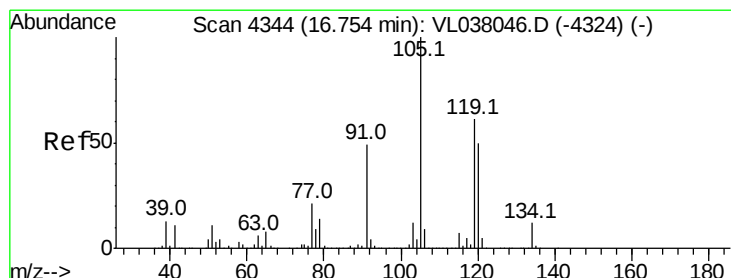
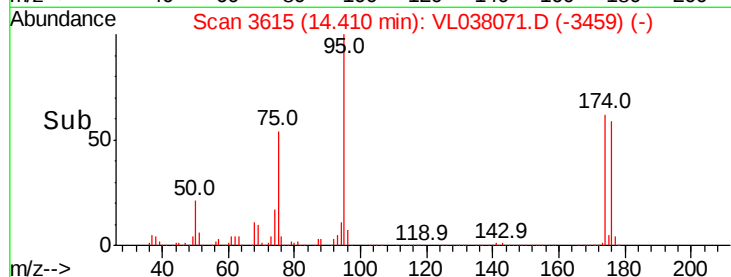
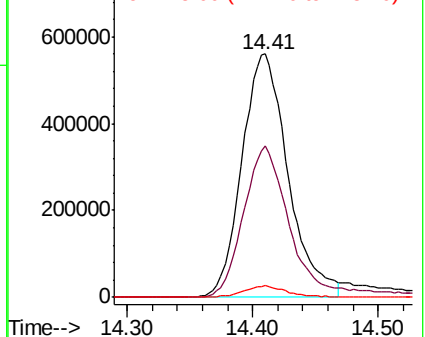
95 100

174 65.0 53.1 79.7

175 4.7 4.0 6.0



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



#74

1,2,4-Trimethylbenzene

Concen: 0.034 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL038071.D

Acq: 19 Nov 2021 2:19

Tgt Ion: 105 Resp: 9194

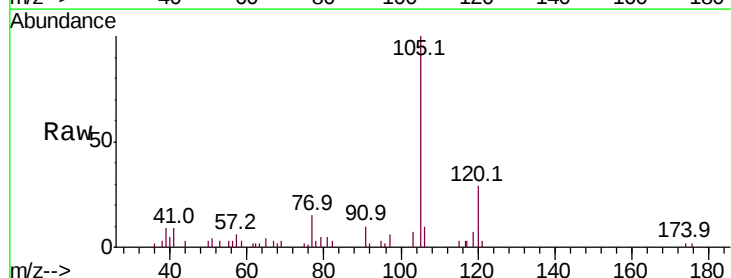
Ion Ratio Lower Upper

105 100

120 18.9 40.1 60.1#

91 13.0 39.8 59.8#

77 21.8 16.6 25.0



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0

