

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038858.D
 Acq On : 8 Apr 2022 2:05
 Operator : SY/AP
 Sample : N2274-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1161-8-01-SG-1

Quant Time: Apr 11 05:18:45 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1076799	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	2873177	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.12	117	2546472	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1928408	9.98	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

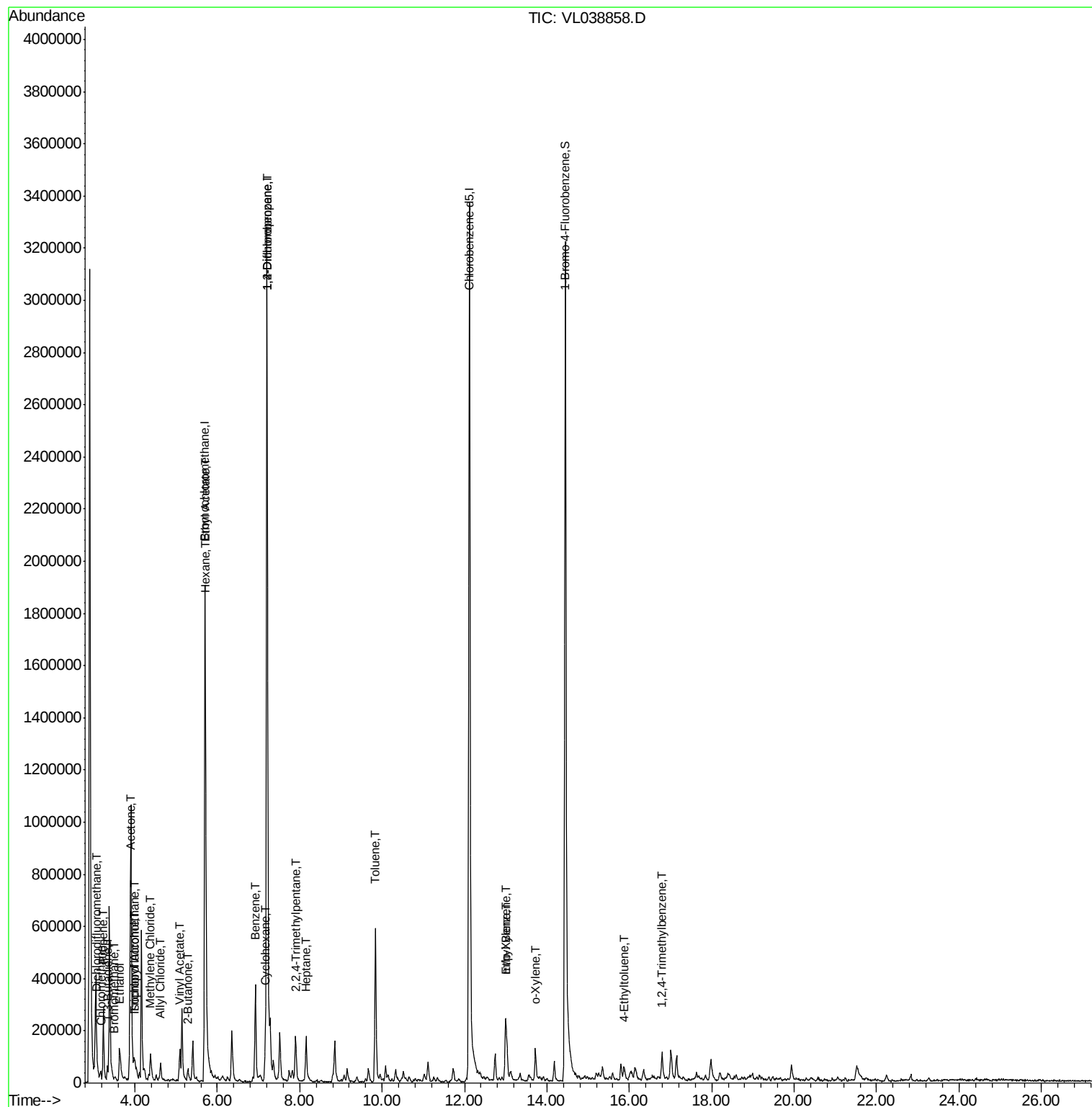
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	46038	0.301	ppbv	100
4) Chloromethane	3.17	50	30569	0.449	ppbv	96
6) Bromomethane	3.49	94	961	0.032	ppbv #	34
9) Propene	3.23	41	86040	1.237	ppbv	86
10) Heptane	8.15	43	88054	0.503	ppbv	99
11) Trichlorofluoromethane	3.98	101	33123	0.270	ppbv	90
13) Ethanol	3.64	45	196709	46.554	ppbv #	100
15) Acetone	3.88	43	266099	2.482	ppbv #	37
16) 1,3-Butadiene	3.33	39	9847	0.161	ppbv	100
19) Isopropyl Alcohol	4.00	45	13211	0.241	ppbv #	100
20) Methylene Chloride	4.37	84	33304	0.857	ppbv #	86
21) Allyl Chloride	4.62	41	14897	0.186	ppbv	87
23) Vinyl Acetate	5.08	43	41580	0.398	ppbv #	1
25) Ethyl Acetate	5.71	43	169507	0.623	ppbv #	84
26) Hexane	5.72	57	192642	1.556	ppbv #	48
30) Cyclohexane	7.16	84	47742	0.437	ppbv	86
34) 2-Butanone	5.28	43	57711	0.508	ppbv #	84
36) Benzene	6.92	78	347728	1.330	ppbv	95
39) 1,2-Dichloropropane	7.21	63	708054	7.082	ppbv #	26
44) 2,2,4-Trimethylpentane	7.90	57	135833	0.307	ppbv #	73
53) Toluene	9.84	91	495595	1.643	ppbv	99
58) Ethyl Benzene	13.00	91	263960	0.694	ppbv	93
59) m/p-Xylene	13.00	91	263960	0.826	ppbv	98
60) o-Xylene	13.72	91	97085	0.325	ppbv	100
72) 4-Ethyltoluene	15.87	105	28759	0.081	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.79	105	70895	0.209	ppbv #	71

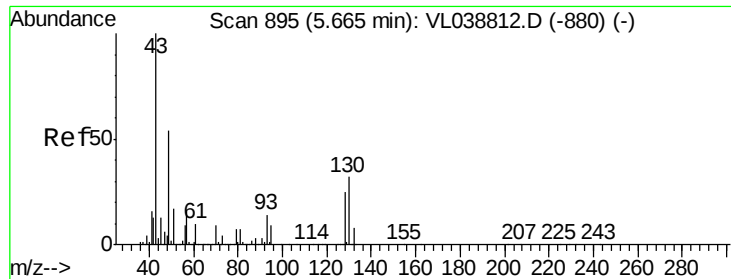
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1161-8-01-SG-1

Quant Time: Apr 11 05:18:45 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 Instrument: MSVOA_1

Delta R.T. 0.03

Lab File: ClientSampleId: 1161-8-01-SG-1

Acq: 8 Apr 2022 2:05

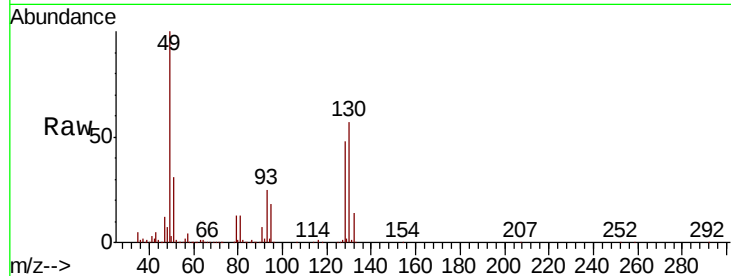
Tot Ion: 49 Resp: 1076799

Ion	Ratio	Lower	Upper
49	100		
128	48.3	24.1	72.3
130	61.4	30.9	92.8

49 100

128 48.3 24.1 72.3

130 61.4 30.9 92.8



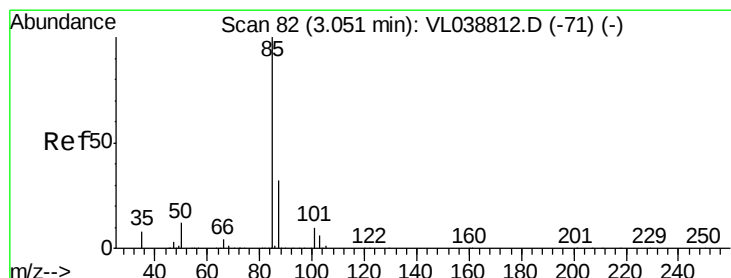
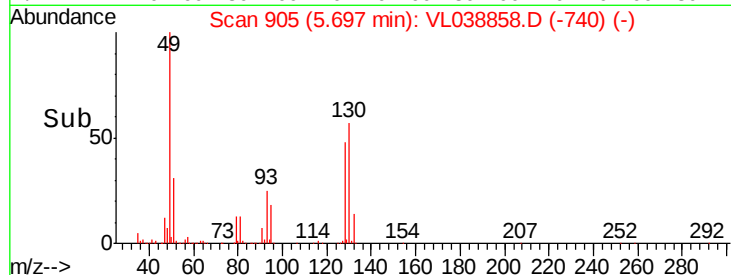
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.70

Time--> 5.60 5.65 5.70 5.75 5.80



#2

Dichlorodifluoromethane

Concen: 0.301 ppbv

RT: 3.08 min Scan# 90

Delta R.T. 0.03 min

Lab File: VL038858.D

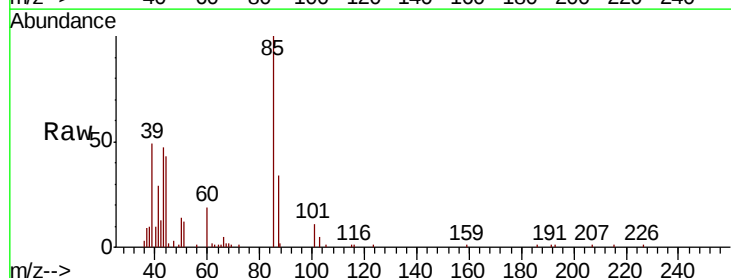
Acq: 8 Apr 2022 2:05

Tgt Ion: 85 Resp: 46038

Ion	Ratio	Lower	Upper
85	100		
87	32.6	25.9	38.9

85 100

87 32.6 25.9 38.9

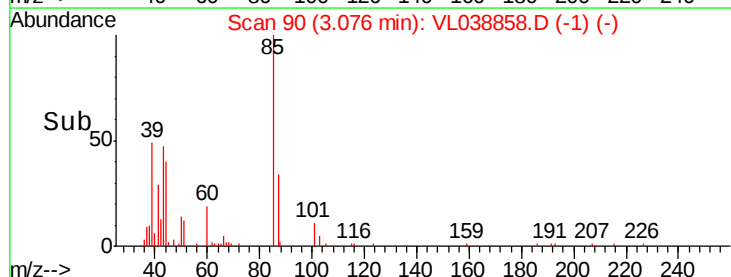


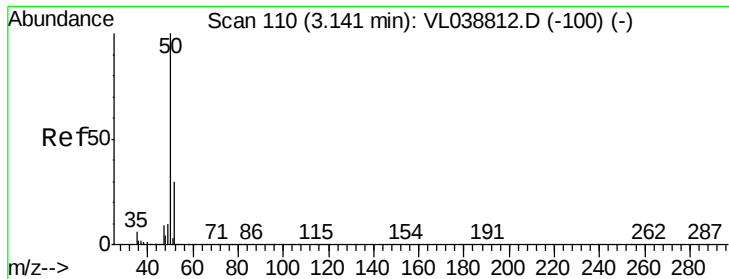
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

Time--> 3.05 3.10





#4

Chloromethane

Concen: 0.449 ppbv

RT: 3.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

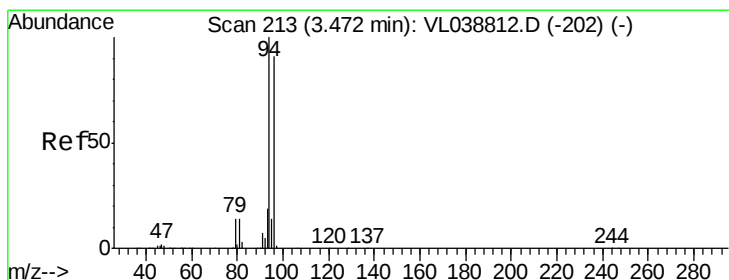
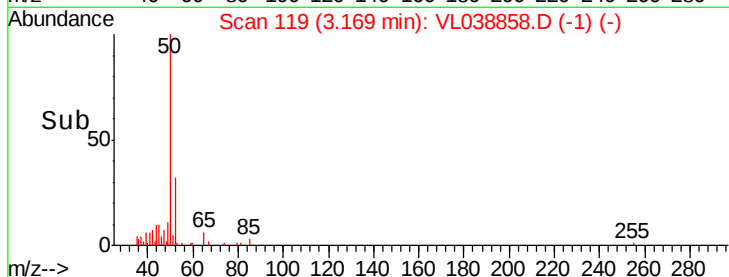
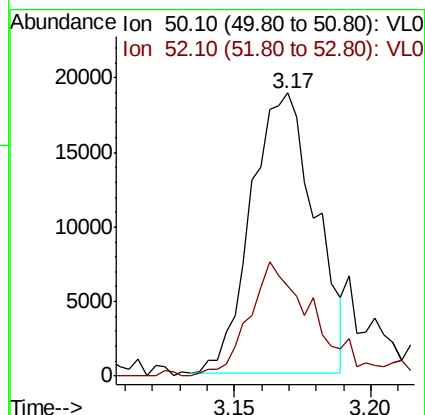
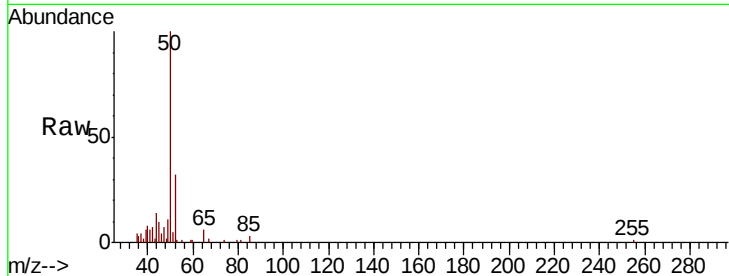
Acq: 8 Apr 2022 2:05

Tot Ion: 50 Resp: 30569

Ion Ratio Lower Upper

50 100

52 32.4 24.3 36.5



#6

Bromomethane

Concen: 0.032 ppbv

RT: 3.49 min Scan# 220

Delta R.T. 0.02 min

Lab File: VL038858.D

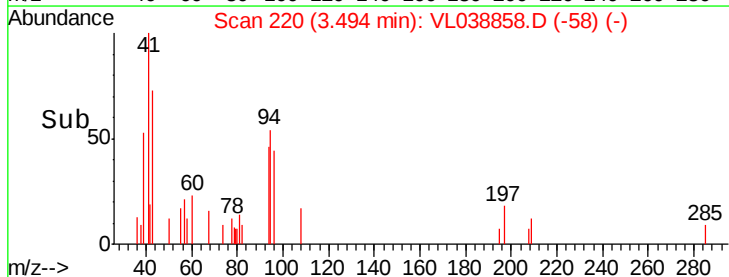
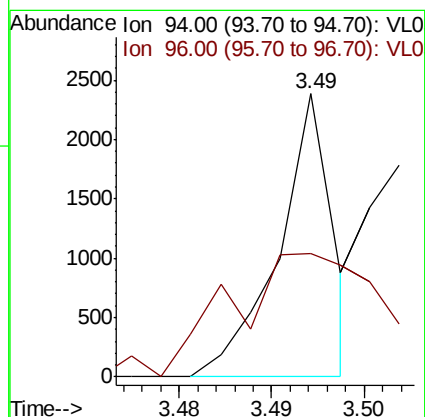
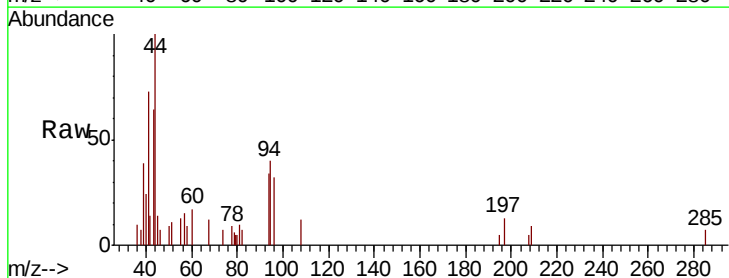
Acq: 8 Apr 2022 2:05

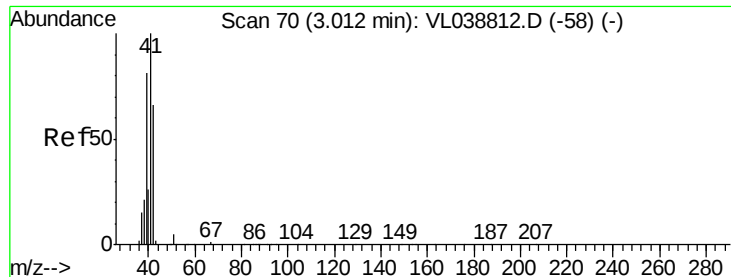
Tgt Ion: 94 Resp: 961

Ion Ratio Lower Upper

94 100

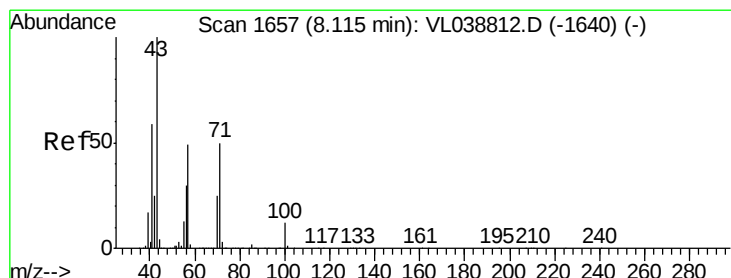
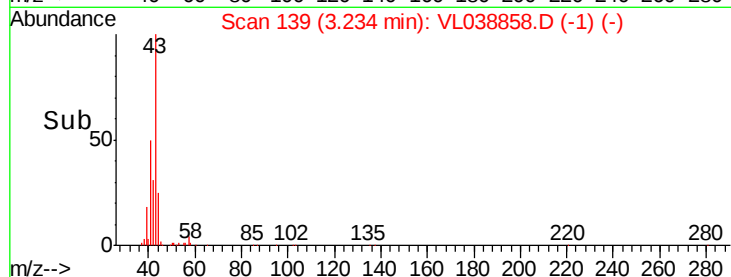
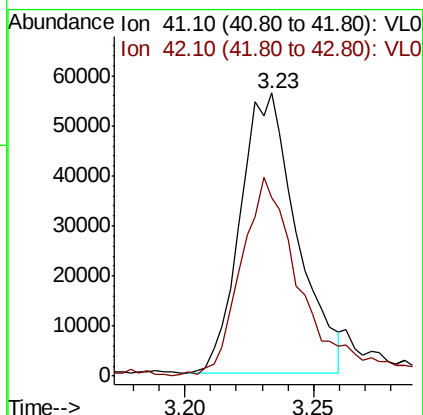
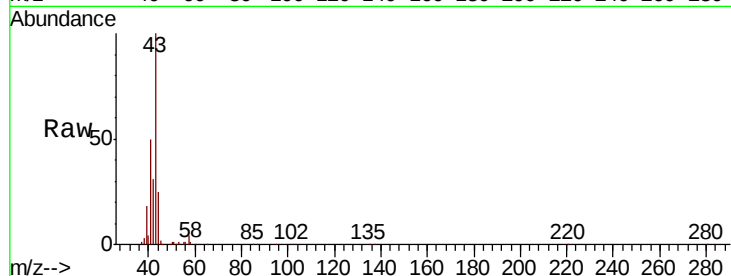
96 28.5 73.2 109.8#





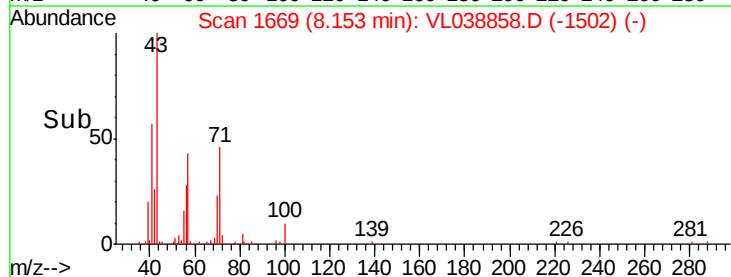
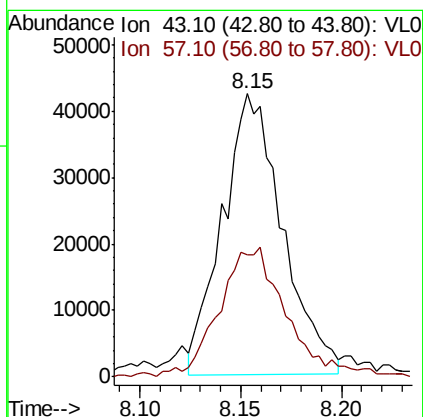
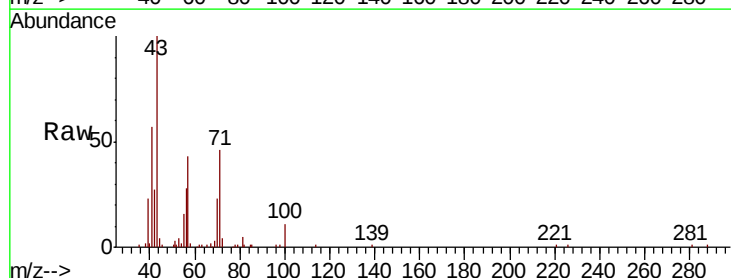
#9
 Propene
 Concen: 1.237 ppbv
 RT: 3.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1161-8-01-SG-1
 Acq: 8 Apr 2022 2:05

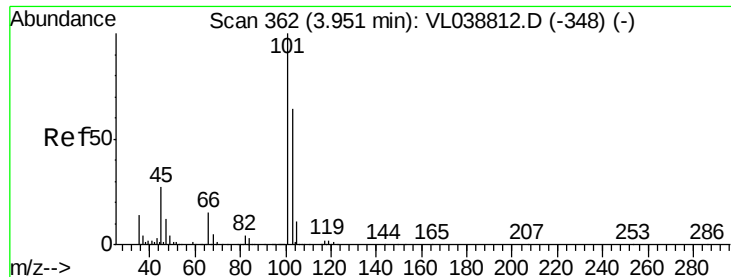
Tot Ion: 41 Resp: 86040
 Ion Ratio Lower Upper
 41 100
 42 79.4 54.2 81.4



#10
 Heptane
 Concen: 0.503 ppbv
 RT: 8.15 min Scan# 1669
 Delta R.T. 0.04 min
 Lab File: VL038858.D
 Acq: 8 Apr 2022 2:05

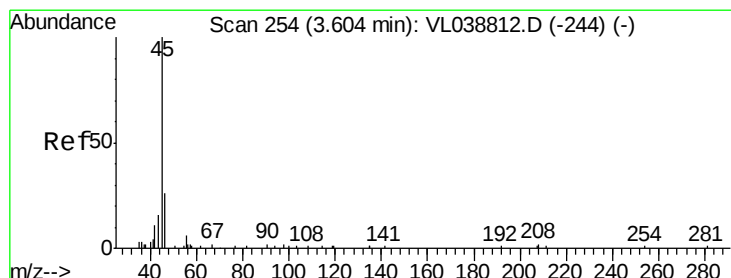
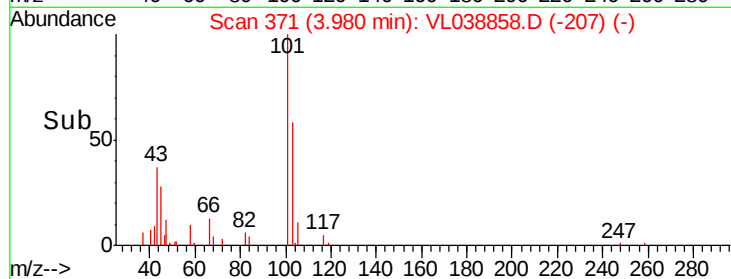
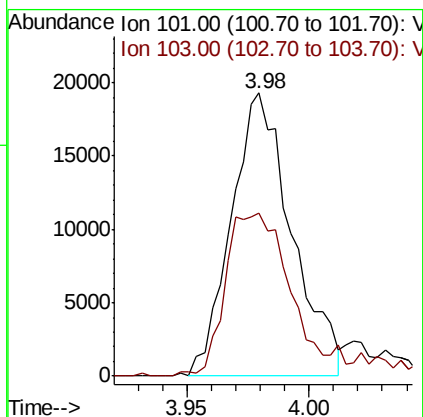
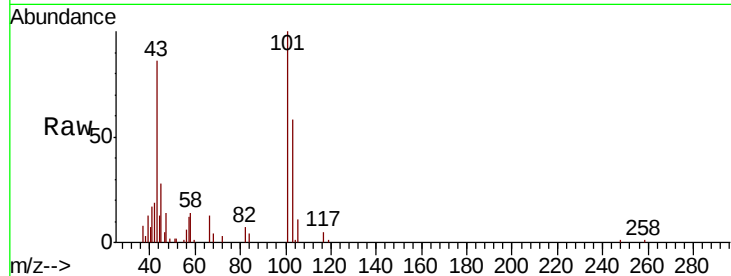
Tgt Ion: 43 Resp: 88054
 Ion Ratio Lower Upper
 43 100
 57 49.6 39.3 58.9





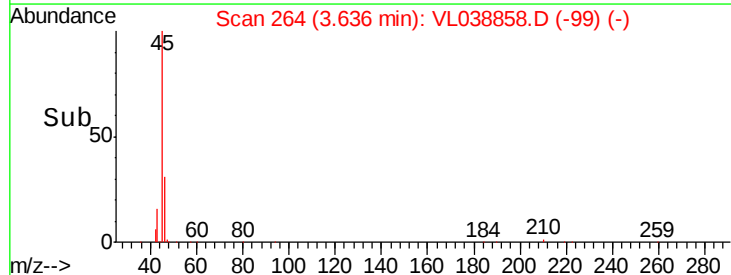
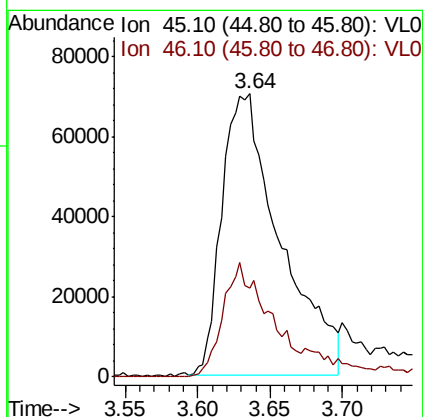
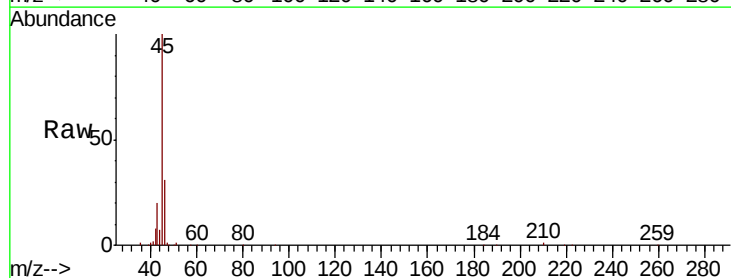
#11
 Trichlorofluoromethane
 Concen: 0.270 ppbv
 RT: 3.98
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : 1161-8-01-SG-1
 Acq: 8 Apr 2022 2:05

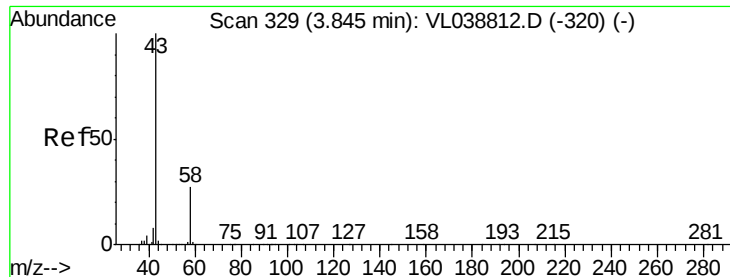
Tot Ion: 101 Resp: 33123
 Ion Ratio Lower Upper
 101 100
 103 56.2 51.4 77.0



#13
 Ethanol
 Concen: 46.554 ppbv
 RT: 3.64 min Scan# 264
 Delta R.T.: 0.03 min
 Lab File: VL038858.D
 Acq: 8 Apr 2022 2:05

Tgt Ion: 45 Resp: 196709
 Ion Ratio Lower Upper
 45 100
 46 41.0 0.0 0.0#





#15

Acetone

Concen: 2.482 ppbv

RT: 3.88 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

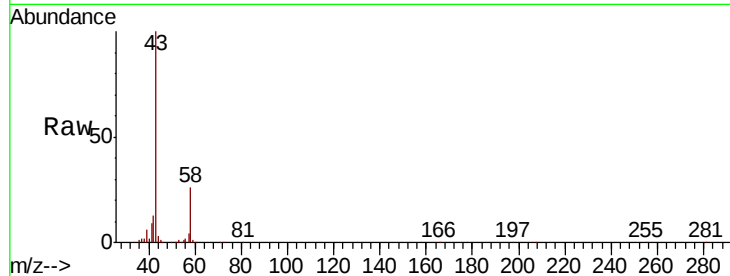
Acq: 8 Apr 2022 2:05

Tot Ion: 43 Resp: 266099

Ion Ratio Lower Upper

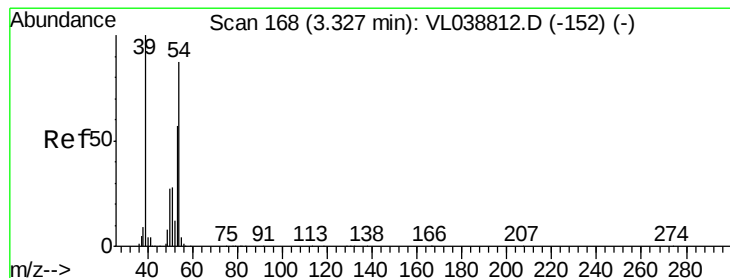
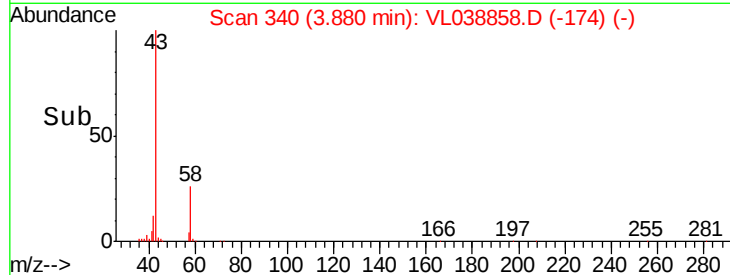
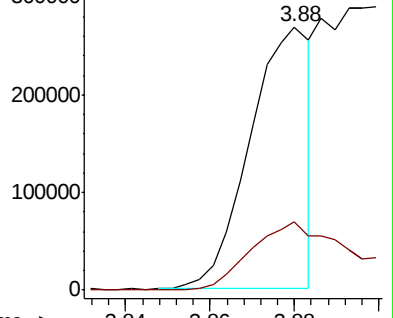
43 100

58 61.4 22.5 33.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.161 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL038858.D

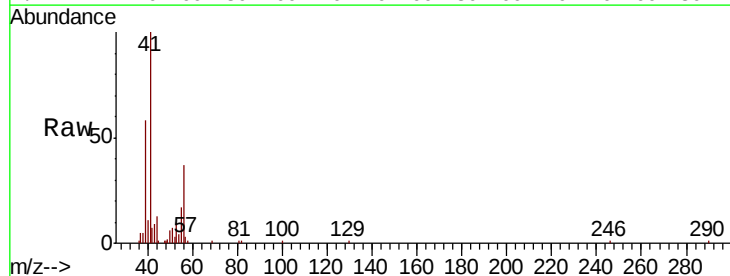
Acq: 8 Apr 2022 2:05

Tgt Ion: 39 Resp: 9847

Ion Ratio Lower Upper

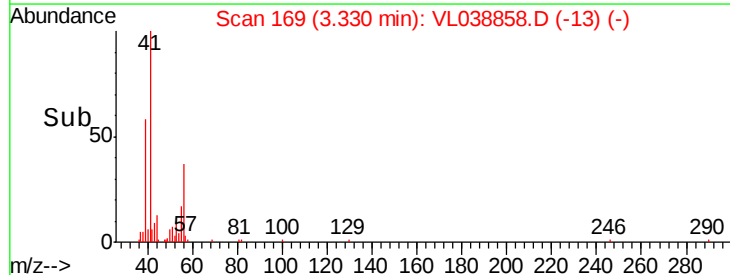
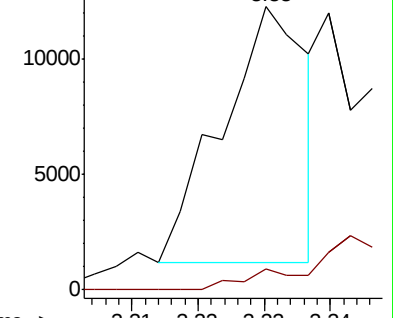
39 100

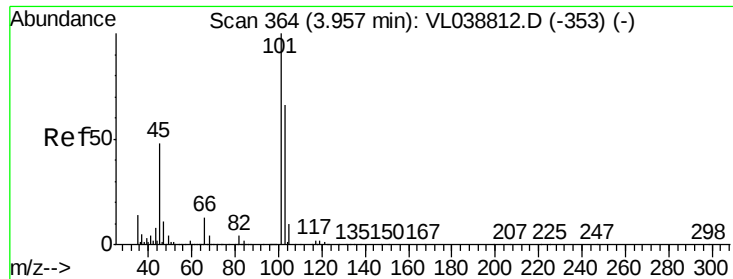
54 81.1 64.8 97.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.241 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

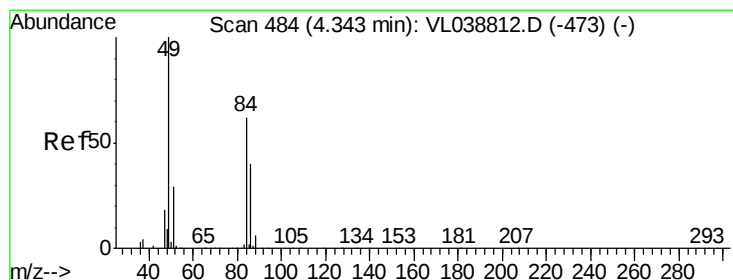
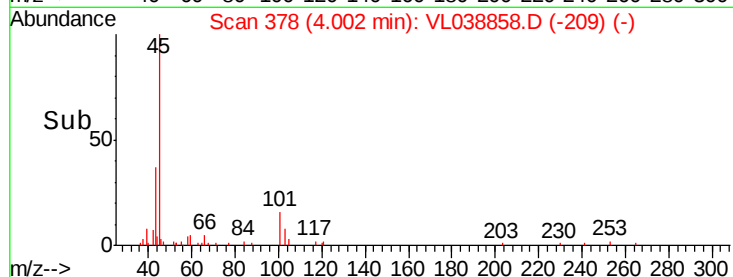
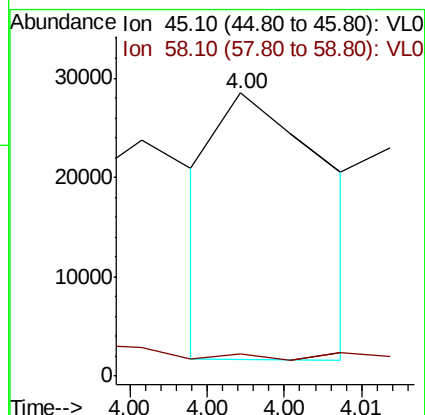
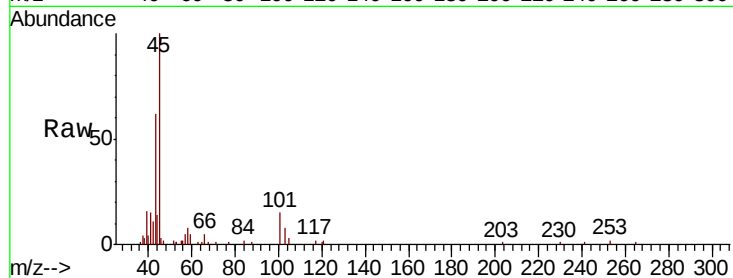
Acq: 8 Apr 2022 2:05

Tot Ion: 45 Resp: 13211

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0



#20

Methylene Chloride

Concen: 0.857 ppbv

RT: 4.37 min Scan# 493

Delta R.T. 0.03 min

Lab File: VL038858.D

Acq: 8 Apr 2022 2:05

Tgt Ion: 84 Resp: 33304

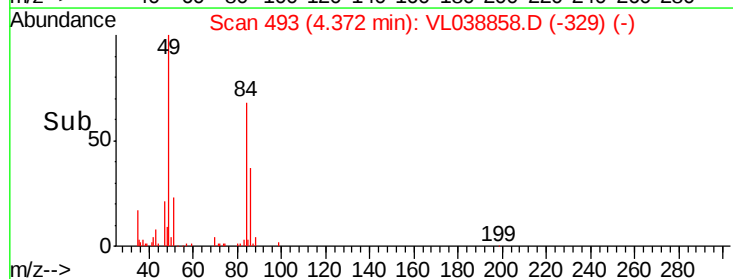
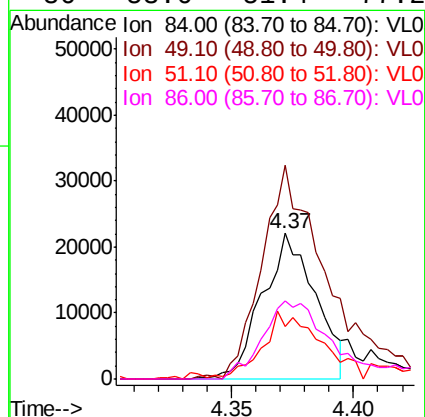
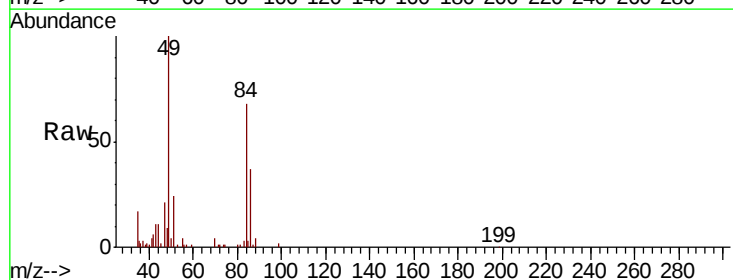
Ion Ratio Lower Upper

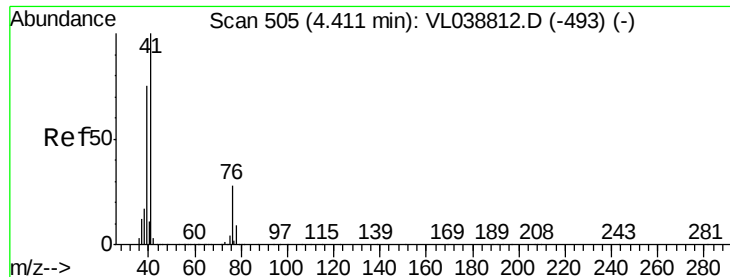
84 100

49 146.8 129.4 194.0

51 31.7 37.4 56.2#

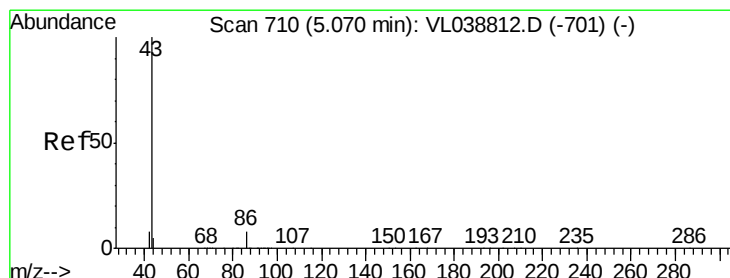
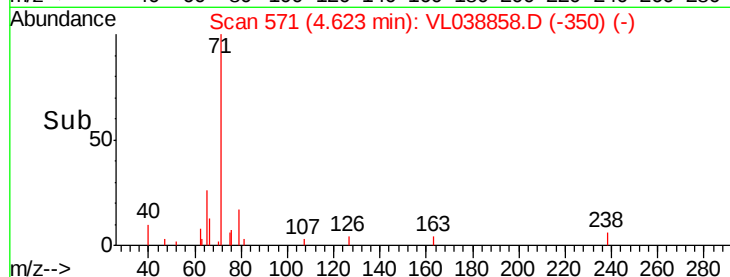
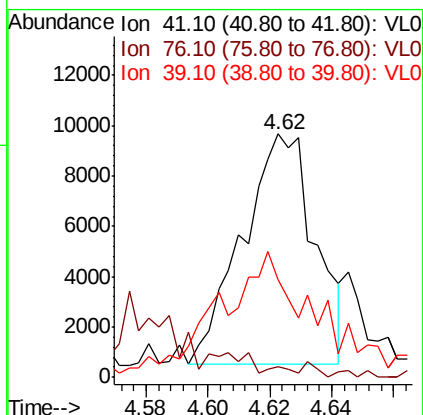
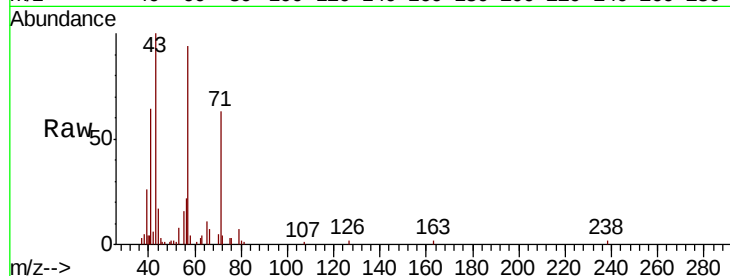
86 53.6 51.4 77.2





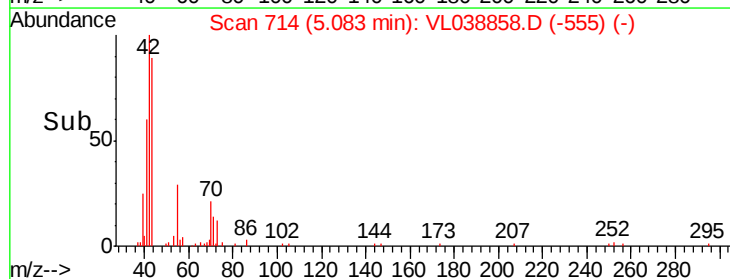
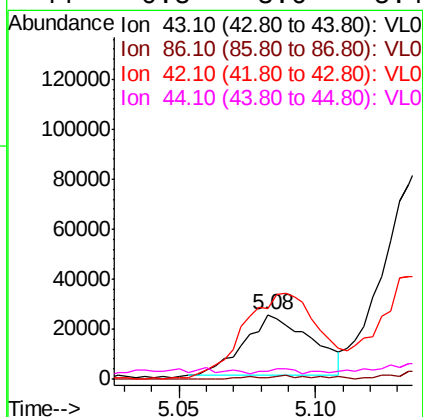
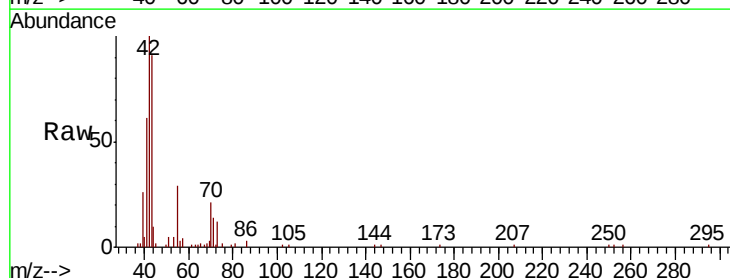
#21
 Allvl Chloride
 Concen: 0.186 ppbv
 RT: 4.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1161-8-01-SG-1
 Acq: 8 Apr 2022 2:05

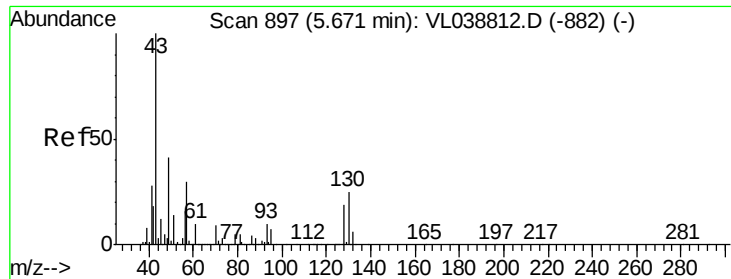
Tot Ion:	41	Resp:	14897
Ion	Ratio	Lower	Upper
41	100		
76	34.1	23.7	35.5
39	90.6	62.0	93.0



#23
 Vinyl Acetate
 Concen: 0.398 ppbv
 RT: 5.08 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VL038858.D
 Acq: 8 Apr 2022 2:05

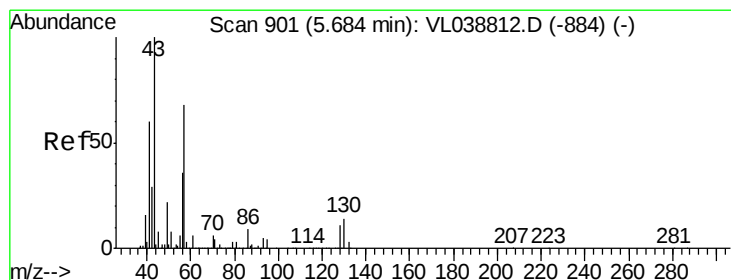
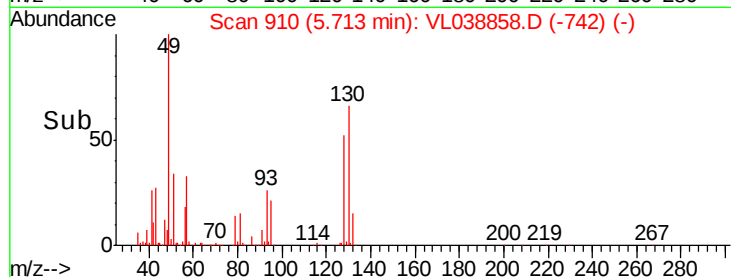
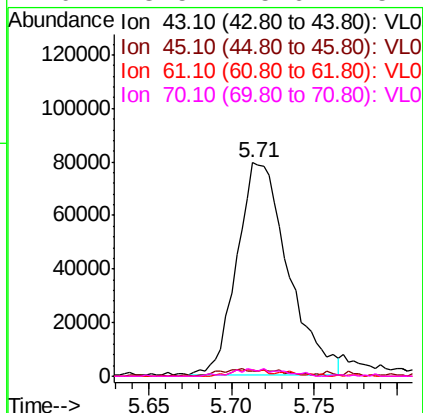
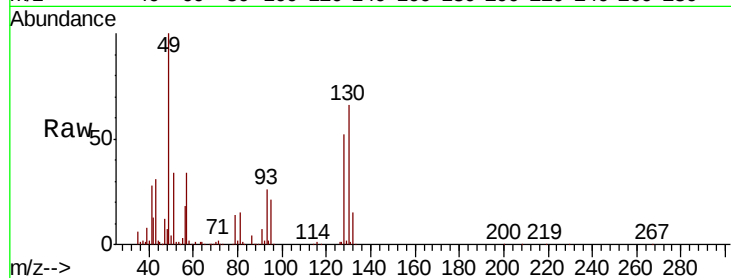
Tgt Ion:	43	Resp:	41580
Ion	Ratio	Lower	Upper
43	100		
86	3.0	5.8	8.6#
42	113.7	7.8	11.6#
44	0.8	3.6	5.4#





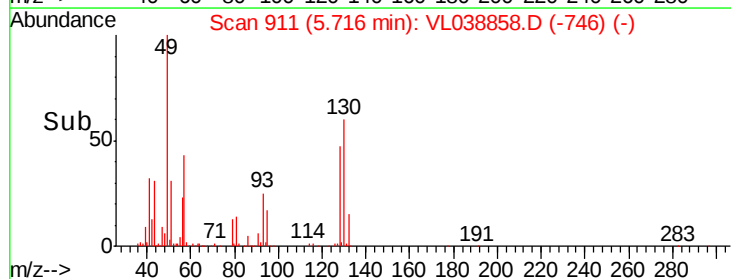
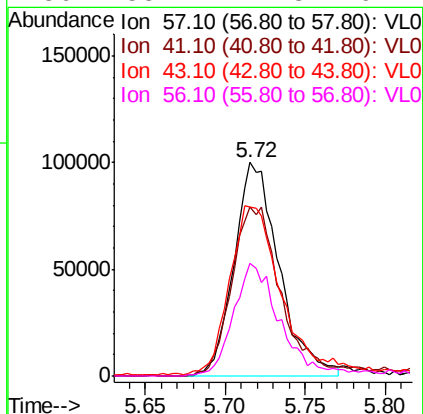
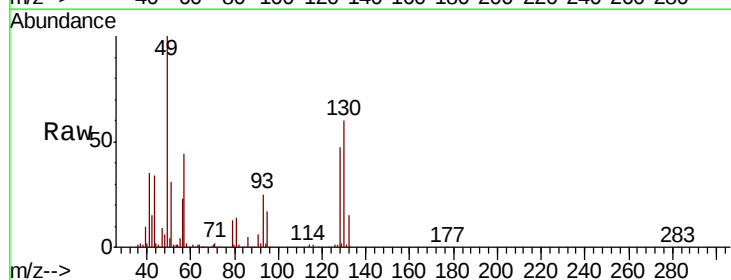
#25
Ethyl Acetate
Concen: 0.623 ppbv
RT: 5.71 min
Instrument: MSVOA_1
Delta R.T.: 0.03 min
Lab File: VL038812.D
Client Sample ID: 1161-8-01-SG-1
Acq: 8 Apr 2022 2:05

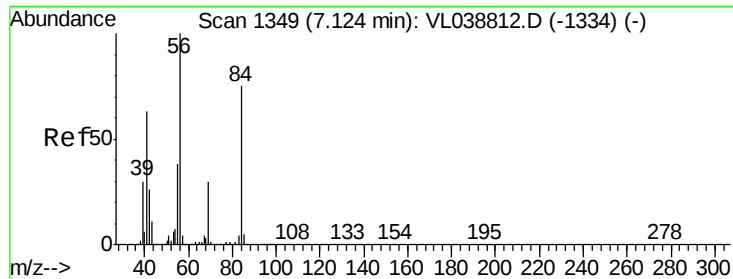
Tot Ion:	43	Resp:	169507
Ion	Ratio	Lower	Upper
43	100		
45	4.2	8.4	12.6#
61	3.3	7.9	11.9#
70	3.5	5.6	8.4#



#26
Hexane
Concen: 1.556 ppbv
RT: 5.72 min Scan# 911
Delta R.T.: 0.03 min
Lab File: VL038858.D
Acq: 8 Apr 2022 2:05

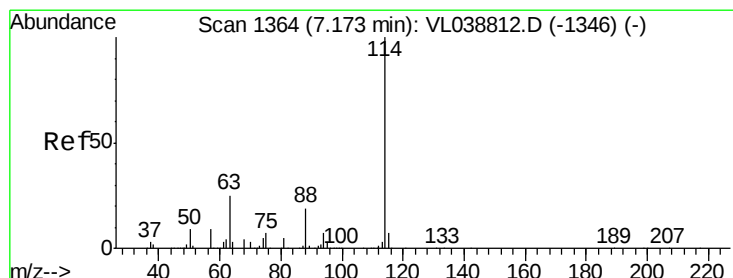
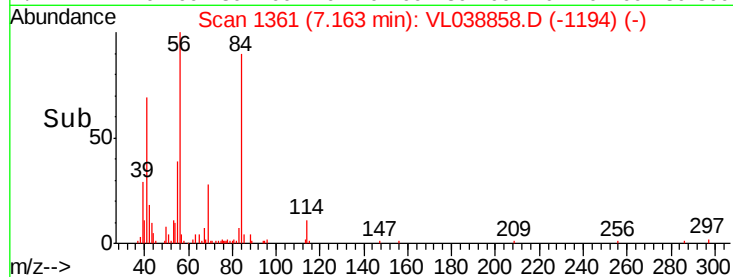
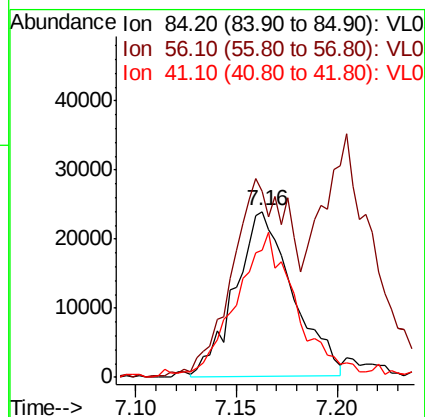
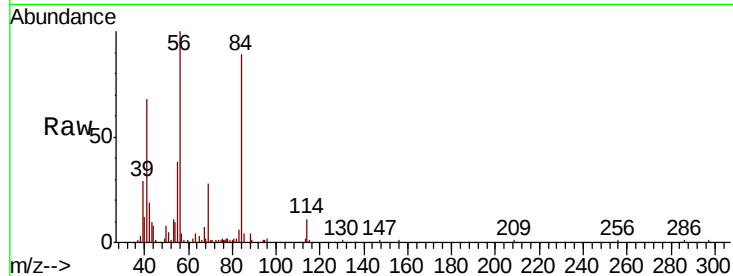
Tgt Ion:	57	Resp:	192642
Ion	Ratio	Lower	Upper
57	100		
41	90.6	72.0	108.0
43	95.0	186.6	280.0#
56	55.2	42.8	64.2





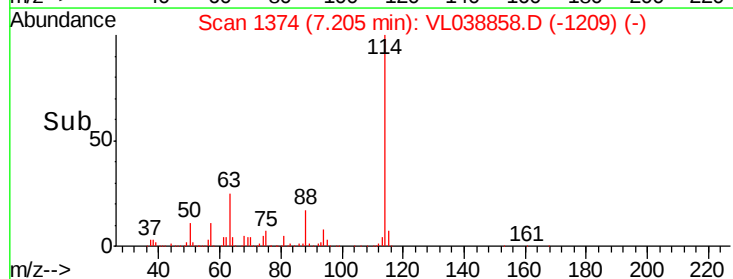
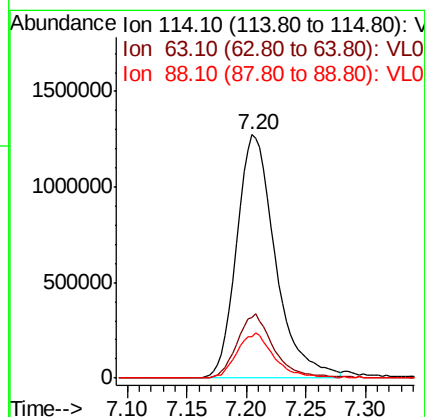
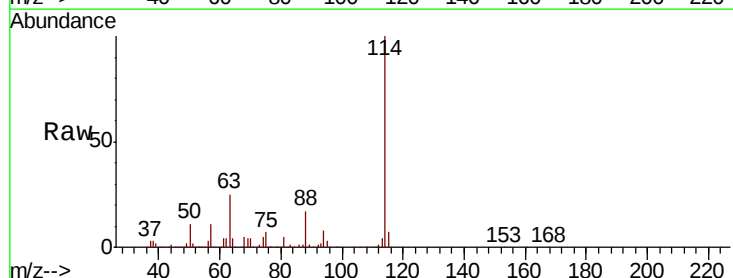
#30
Cvclohexane
Concen: 0.437 ppbv
RT: 7.16
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Apr 2022 2:05

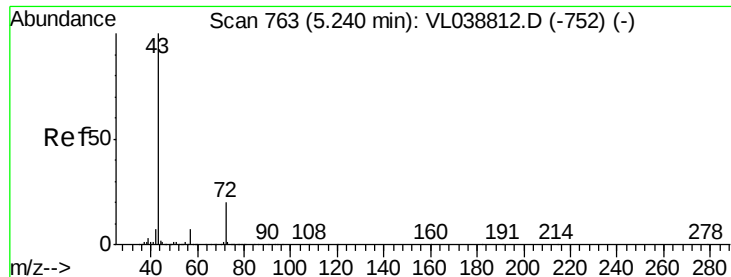
Tot Ion: 84 Resp: 47742
Ion Ratio Lower Upper
84 100
56 121.9 114.4 171.6
41 94.4 69.0 103.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. 0.03 min
Lab File: VL038858.D
Acq: 8 Apr 2022 2:05

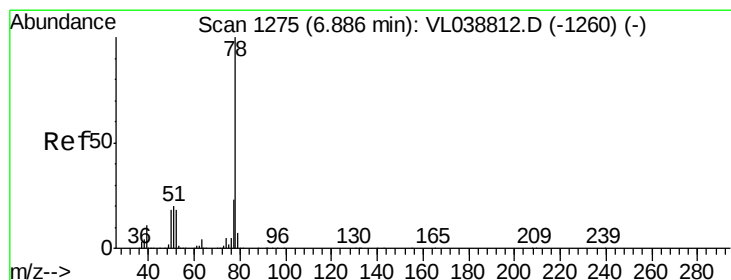
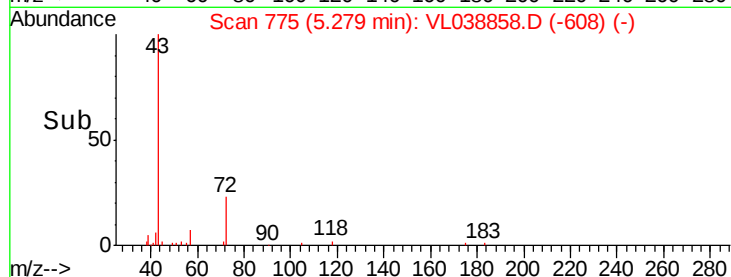
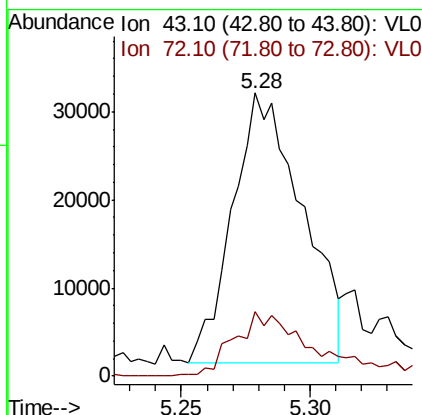
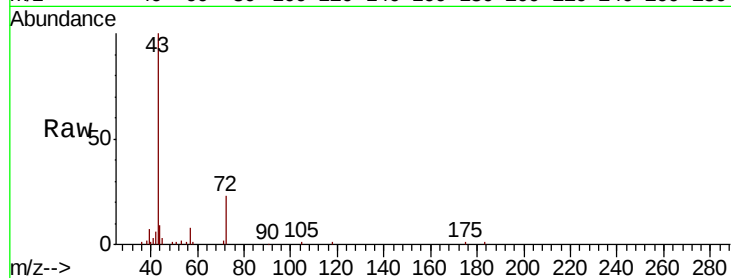
Tgt Ion: 114 Resp: 2873177
Ion Ratio Lower Upper
114 100
63 25.5 19.8 29.8
88 18.3 14.2 21.4





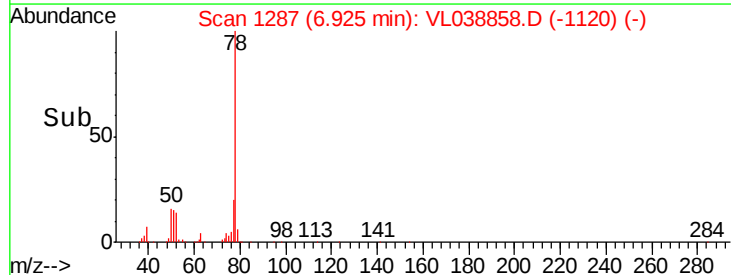
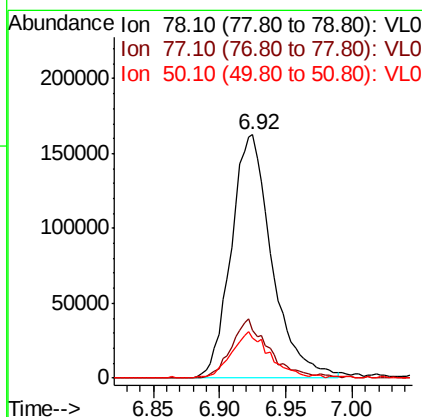
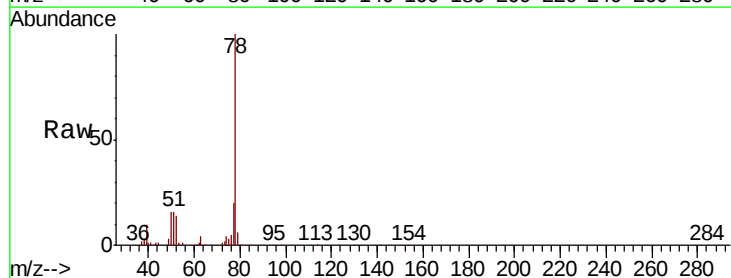
#34
 2-Butanone
 Concen: 0.508 ppbv
 RT: 5.28
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 1161-8-01-SG-1
 Acq: 8 Apr 2022 2:05

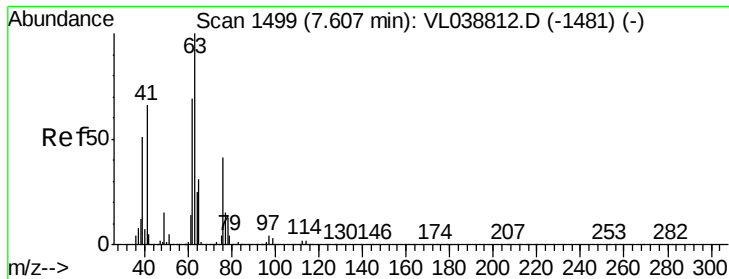
Tot Ion: 43 Resp: 57711
 Ion Ratio Lower Upper
 43 100
 72 28.7 16.9 25.3#



#36
 Benzene
 Concen: 1.330 ppbv
 RT: 6.92 min Scan# 1287
 Delta R.T. 0.04 min
 Lab File: VL038858.D
 Acq: 8 Apr 2022 2:05

Tgt Ion: 78 Resp: 347728
 Ion Ratio Lower Upper
 78 100
 77 19.4 18.2 27.2
 50 16.0 14.0 21.0





#39

1,2-Dichloropropane

Concen: 7.082 ppbv

RT: 7.21 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Apr 2022 2:05

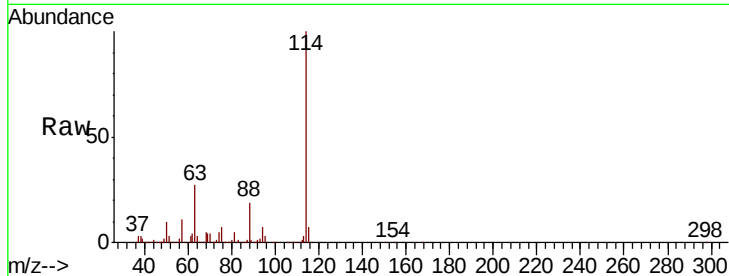
Tot Ion: 63 Resp: 708054

Ion Ratio Lower Upper

63 100

41 0.0 53.0 79.6#

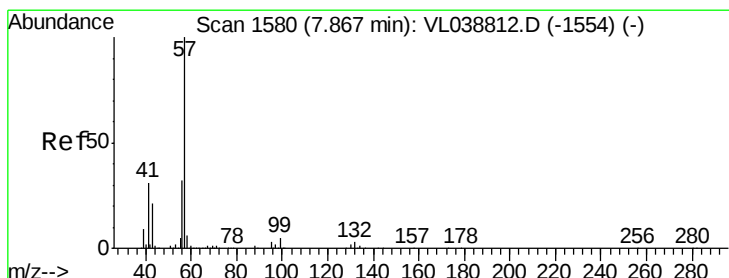
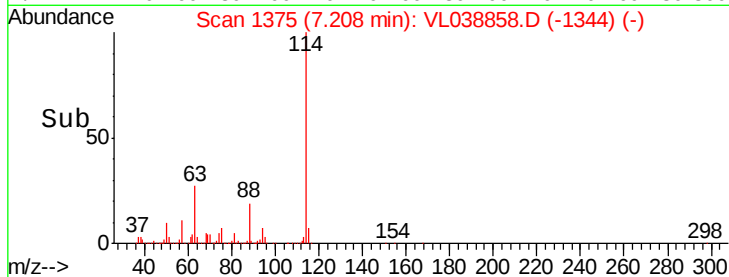
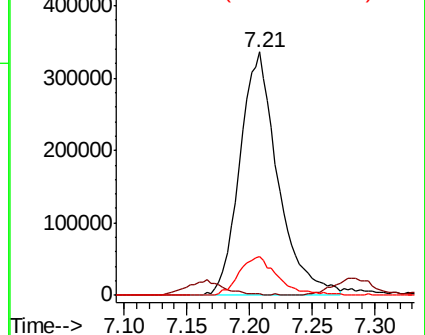
62 16.0 55.0 82.4#



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



#44

2,2,4-Trimethylpentane

Concen: 0.307 ppbv

RT: 7.90 min Scan# 1590

Delta R.T. 0.03 min

Lab File: VL038858.D

Acq: 8 Apr 2022 2:05

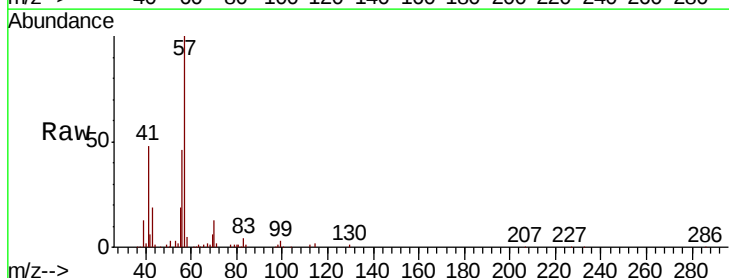
Tgt Ion: 57 Resp: 135833

Ion Ratio Lower Upper

57 100

41 43.2 25.0 37.4#

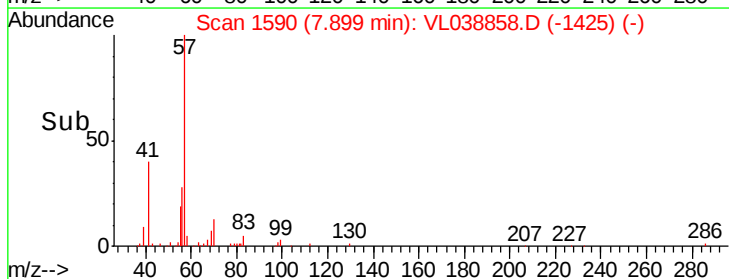
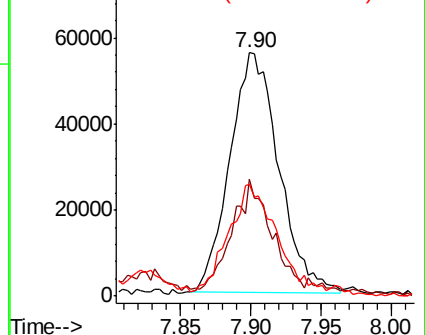
56 49.0 25.3 37.9#

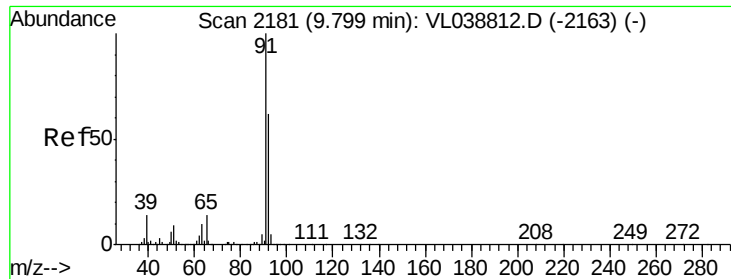


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 1.643 ppbv

RT: 9.84 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

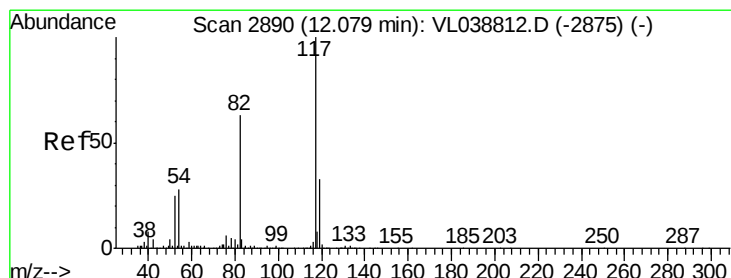
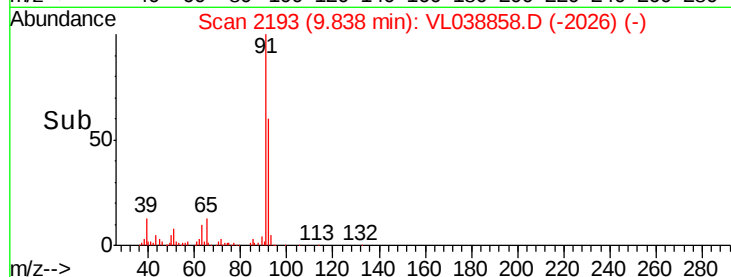
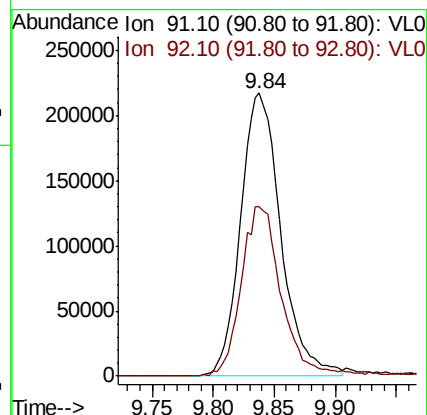
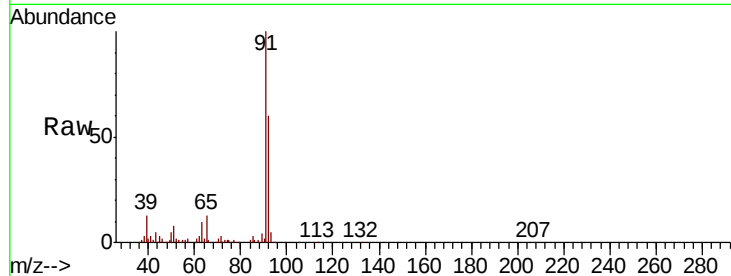
Acq: 8 Apr 2022 2:05

Tot Ion: 91 Resp: 495595

Ion Ratio Lower Upper

91 100

92 60.4 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.04 min

Lab File: VL038858.D

Acq: 8 Apr 2022 2:05

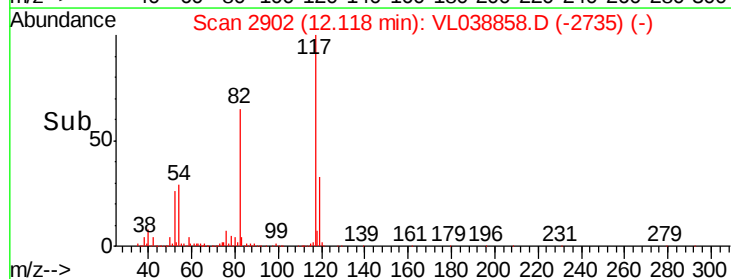
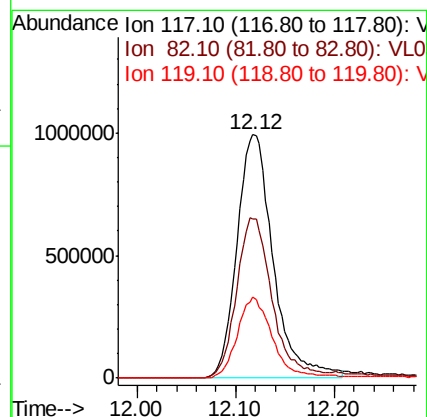
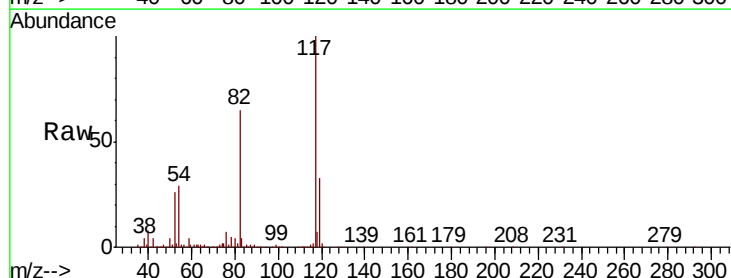
Tgt Ion: 117 Resp: 2546472

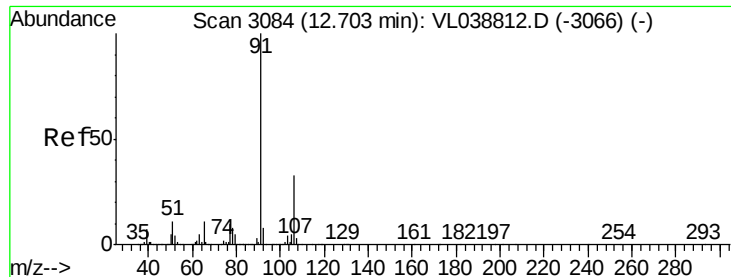
Ion Ratio Lower Upper

117 100

82 68.6 53.0 79.6

119 32.9 24.9 37.3





#58

Ethyl Benzene

Concen: 0.694 ppbv

RT: 13.00 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

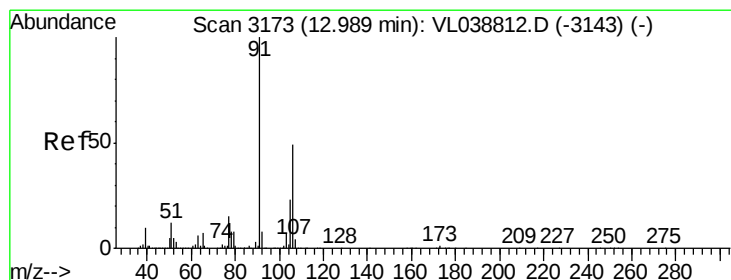
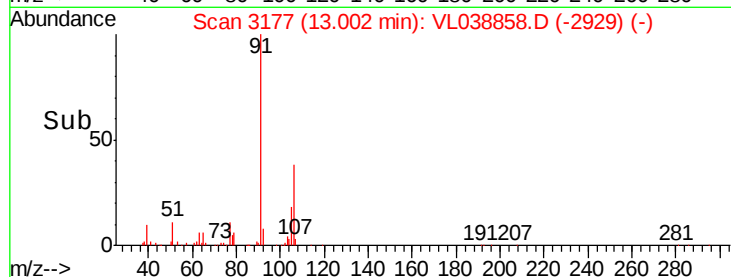
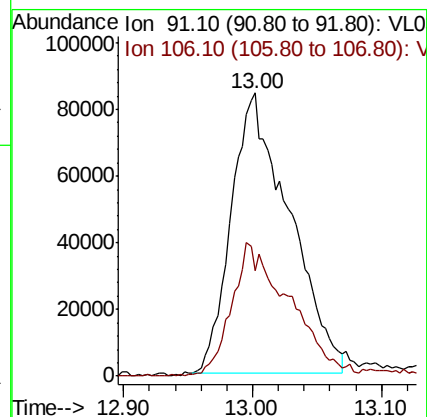
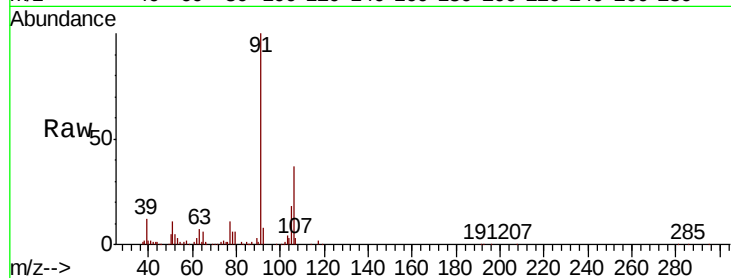
Acq: 8 Apr 2022 2:05

Tot Ion: 91 Resp: 263960

Ion Ratio Lower Upper

91 100

106 37.6 26.7 40.1



#59

m/p-Xylene

Concen: 0.826 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. 0.01 min

Lab File: VL038858.D

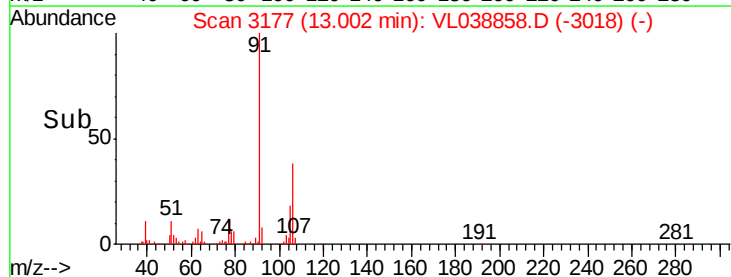
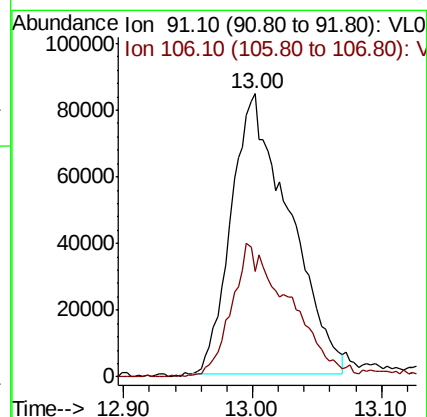
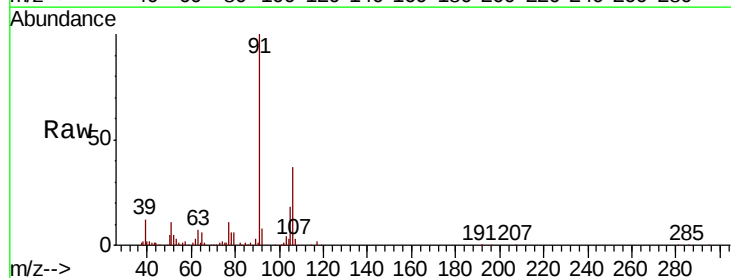
Acq: 8 Apr 2022 2:05

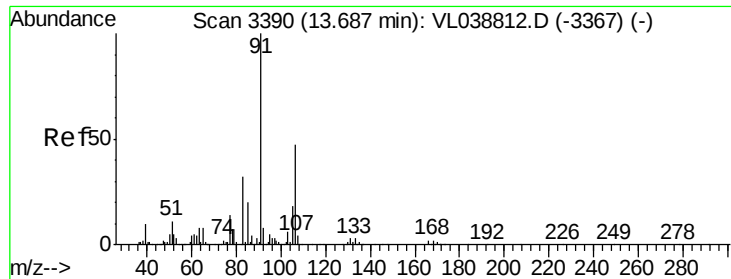
Tgt Ion: 91 Resp: 263960

Ion Ratio Lower Upper

91 100

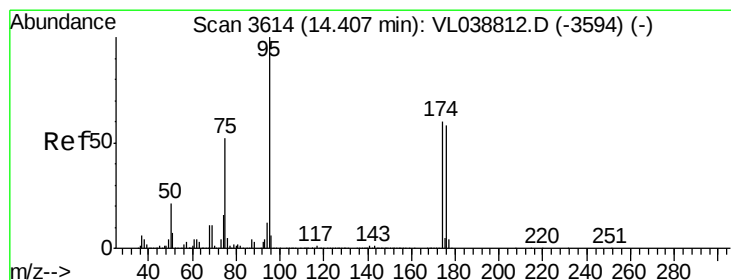
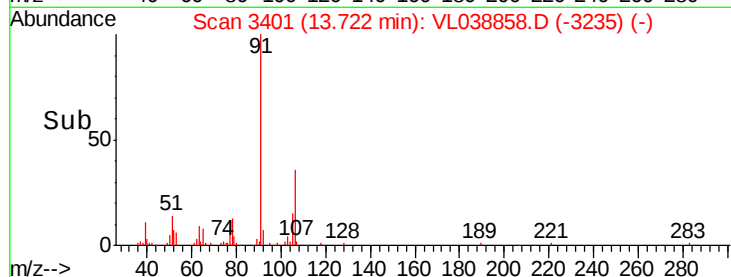
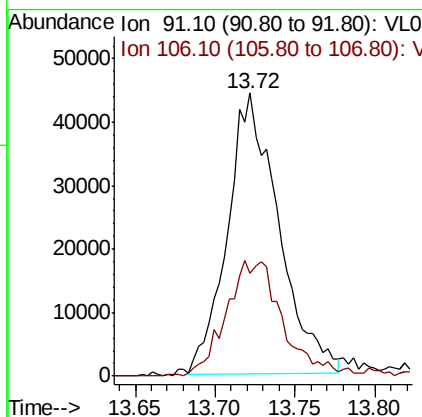
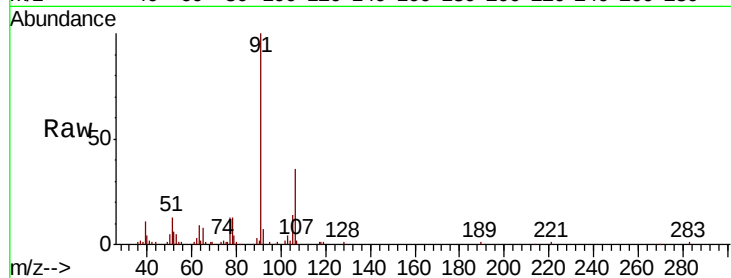
106 47.5 37.1 55.7





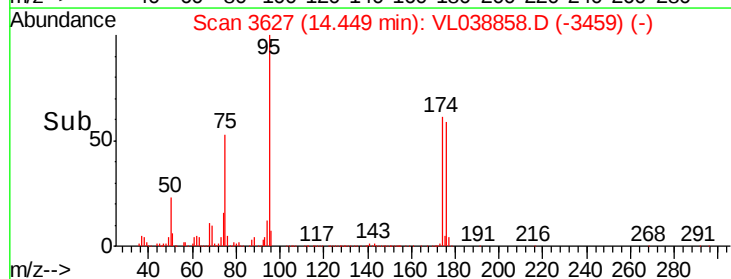
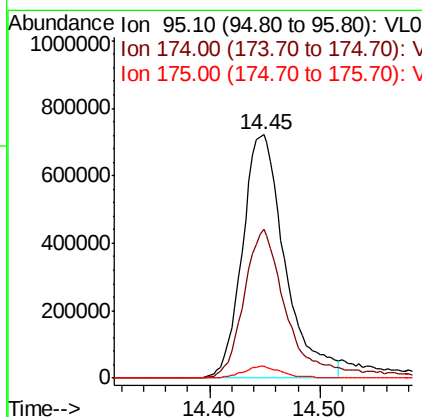
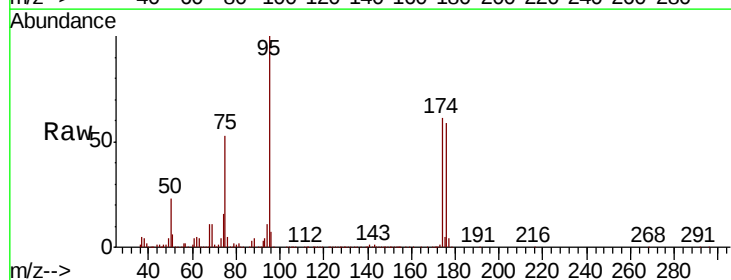
#60
o-Xylene
Concen: 0.325 ppbv
RT: 13.72
Delta R.T. MSVOA_1
Lab File: ClientSampled :
Acq: 8 Apr 2022 2:05

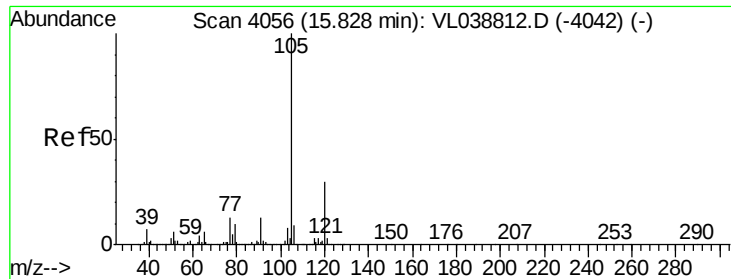
Tot Ion: 91 Resp: 97085
Ion Ratio Lower Upper
91 100
106 47.3 23.8 71.4



#68
1-Bromo-4-Fluorobenzene
Concen: 9.984 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. 0.04 min
Lab File: VL038858.D
Acq: 8 Apr 2022 2:05

Tgt Ion: 95 Resp: 1928408
Ion Ratio Lower Upper
95 100
174 64.2 52.0 78.0
175 4.9 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.081 ppbv

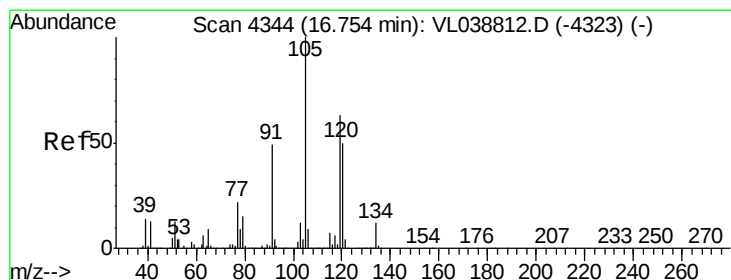
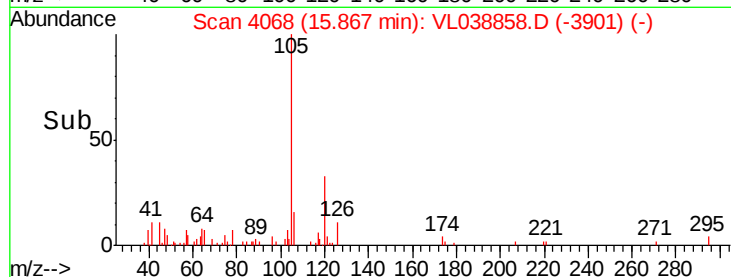
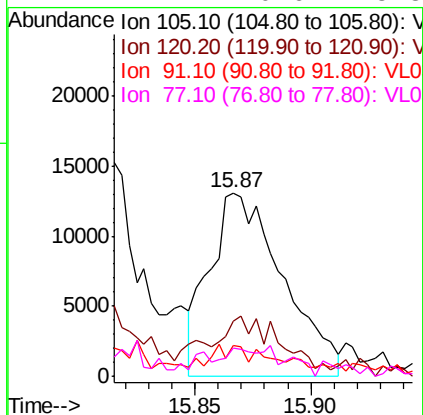
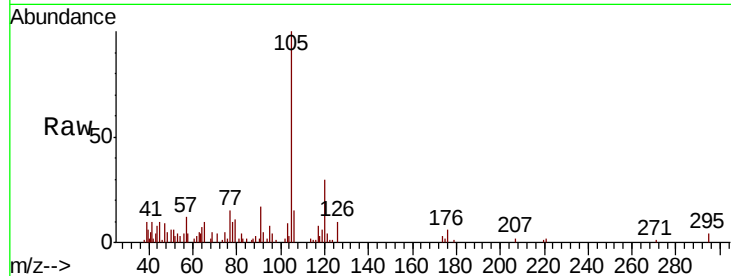
RT: 15.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 2:05

Tot Ion:	105	Resp:	28759
Ion	Ratio	Lower	Upper
105	100		
120	36.0	24.3	36.5
91	19.1	9.4	14.2#
77	21.2	10.6	15.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.209 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.04 min

Lab File: VL038858.D

Acq: 8 Apr 2022 2:05

Tgt Ion:	105	Resp:	70895
Ion	Ratio	Lower	Upper
105	100		
120	47.0	39.8	59.8
91	9.8	39.4	59.0#
77	12.8	17.3	25.9#

