

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038937.D
 Acq On : 15 Apr 2022 4:09
 Operator : SY/AP
 Sample : N2351-02
 Misc : 400mL/MSVOA L
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1161-8.01-IA-2

Quant Time: Apr 15 08:11:04 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	5.66	49	1172702	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3067768	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2812888	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2240971	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	103857	0.624	ppbv	99
3) Chlorodifluoromethane	2.96	51	901101	6.296	ppbv #	75
4) Chloromethane	3.14	50	36125	0.487	ppbv	98
9) Propene	3.20	41	2636829	34.823	ppbv	99
10) Heptane	8.11	43	862110	4.520	ppbv	98
11) Trichlorofluoromethane	3.95	101	26803	0.201	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4062	0.040	ppbv #	12
13) Ethanol	3.60	45	3983953	865.762	ppbv #	100
15) Acetone	3.84	43	3784653	32.416	ppbv #	86
16) 1,3-Butadiene	3.30	39	83063	1.244	ppbv #	9
17) tert-Butyl alcohol	4.30	59	71219	0.680	ppbv #	72
19) Isopropyl Alcohol	3.96	45	11225192	188.114	ppbv #	100
20) Methylene Chloride	4.34	84	46565	1.100	ppbv	89
21) Allyl Chloride	4.37	41	286276	3.275	ppbv #	47
23) Vinyl Acetate	5.05	43	492170	4.329	ppbv #	1
25) Ethyl Acetate	5.68	43	1061987	3.585	ppbv #	89
26) Hexane	5.68	57	958248	7.106	ppbv #	55
29) Chloroform	5.74	83	15019	0.080	ppbv	92
30) Cyclohexane	7.12	84	116928	0.984	ppbv #	73
34) 2-Butanone	5.23	43	981245	8.095	ppbv	99
36) Benzene	6.88	78	1381284	4.949	ppbv	99
38) Trichloroethene	7.82	130	12647	0.110	ppbv	88
39) 1,2-Dichloropropane	7.17	63	737279	6.907	ppbv #	27
41) Tetrahydrofuran	6.04	42	579647	5.035	ppbv	97
42) Bromodichloromethane	7.79	83	25076	0.124	ppbv #	29
44) 2,2,4-Trimethylpentane	7.86	57	1879118	3.977	ppbv	95
50) 4-Methyl-2-Pentanone	8.74	43	84649	0.310	ppbv	97
51) 2-Hexanone	10.10	43	72787	0.354	ppbv #	36
53) Toluene	9.80	91	12320125	38.241	ppbv	93
58) Ethyl Benzene	12.70	91	3374660	8.029	ppbv	93
59) m/p-Xylene	12.96	91	9834337	27.849	ppbv	97
60) o-Xylene	13.68	91	3452212	10.447	ppbv	96
61) Styrene	13.52	104	18283	0.091	ppbv #	1
62) Isopropylbenzene	14.65	105	139356	0.281	ppbv	96
64) n-propylbenzene	15.55	120	160705	1.248	ppbv	84
65) tert-Butylbenzene	16.75	119	288255	0.655	ppbv #	64
66) Benzyl Chloride	17.18	91	10234	0.114	ppbv #	65
69) p-Isopropyltoluene	17.64	119	34638	0.068	ppbv #	57
70) n-Butylbenzene	18.54	91	53238	0.104	ppbv #	59
71) 2-Chlorotoluene	15.55	91	781715	2.096	ppbv #	42
72) 4-Ethyltoluene	15.83	105	1097680	2.782	ppbv	98

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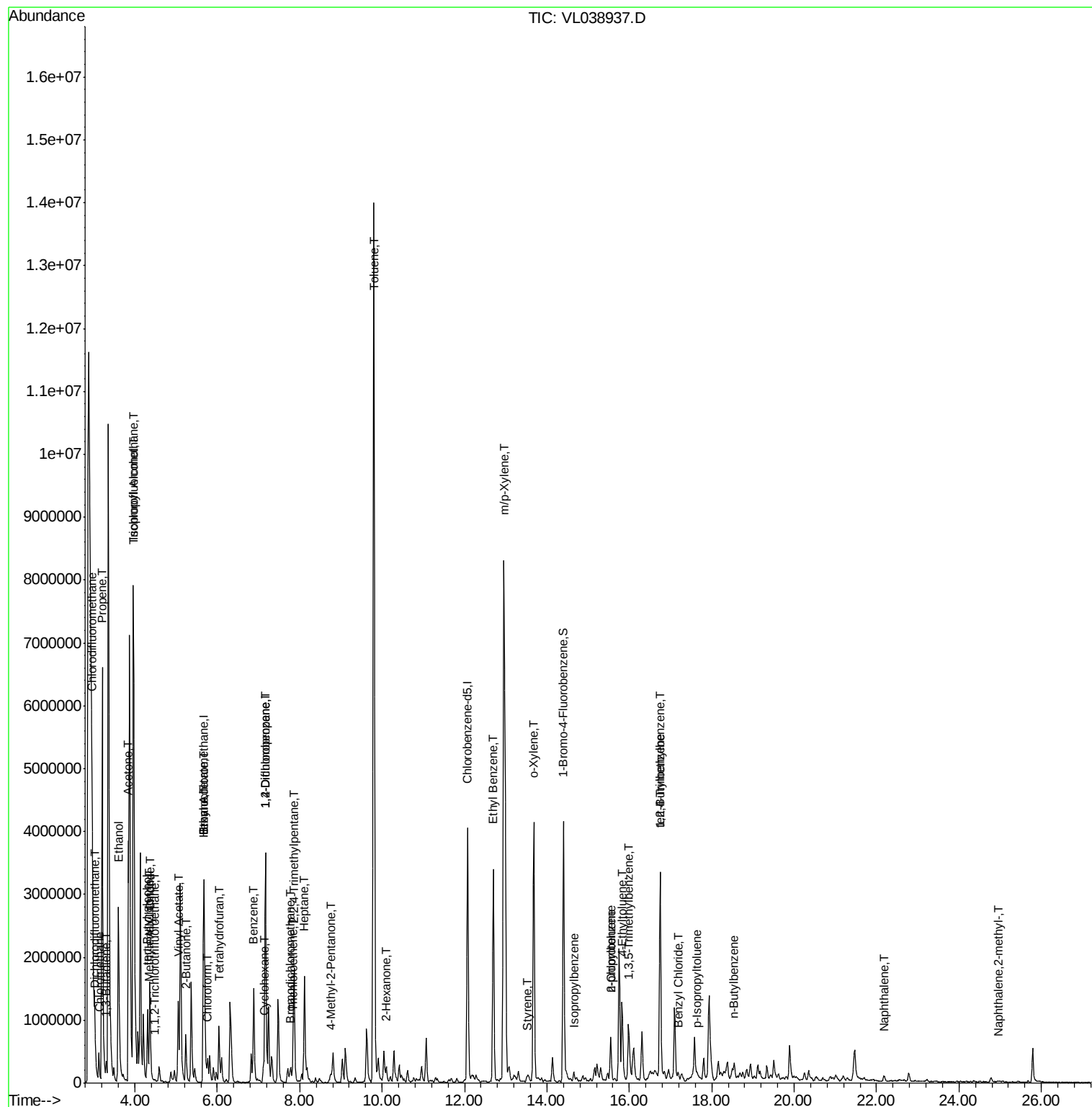
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	15.98	105	679128	1.916	ppbv	94
74) 1,2,4-Trimethylbenzene	16.75	105	2643957	7.056	ppbv #	71
79) Naphthalene	22.18	128	92675	0.331	ppbv	95
80) Naphthalene,2-methyl-	24.96	142	6874	0.100	ppbv #	88

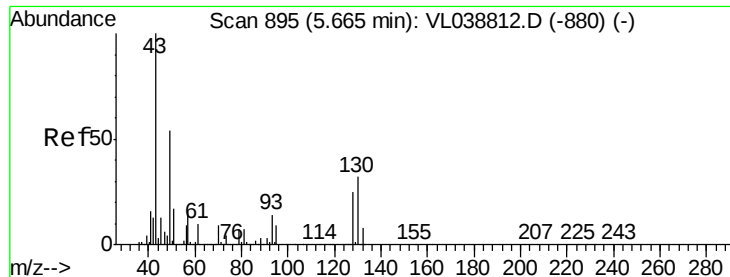
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041422\
Data File : VL038937.D
Acq On : 15 Apr 2022 4:09
Operator : SY/AP
Sample : N2351-02
Misc : 400mL/MSVOA L
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-1A-2

Quant Time: Apr 15 08:11:04 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1161-8.01-A-2

Acq: 15 Apr 2022 4:09

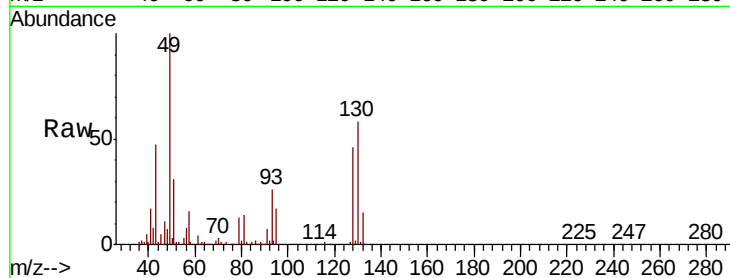
Tot Ion: 49 Resp: 1172702

Ion Ratio Lower Upper

49 100

128 47.9 24.1 72.3

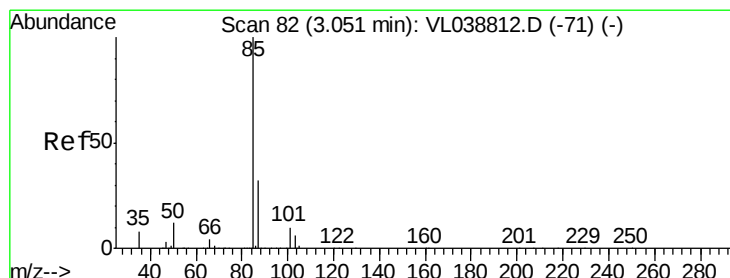
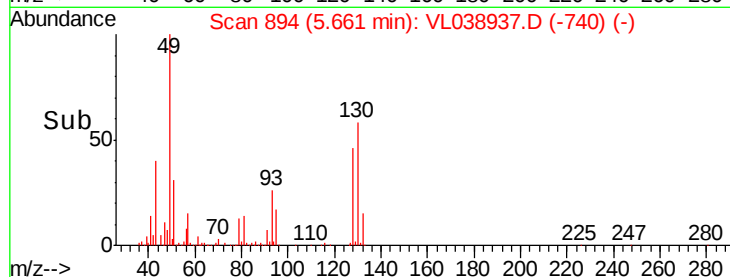
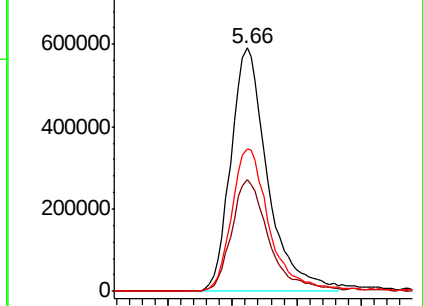
130 61.7 30.9 92.8



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



#2

Dichlorodifluoromethane

Concen: 0.624 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL038937.D

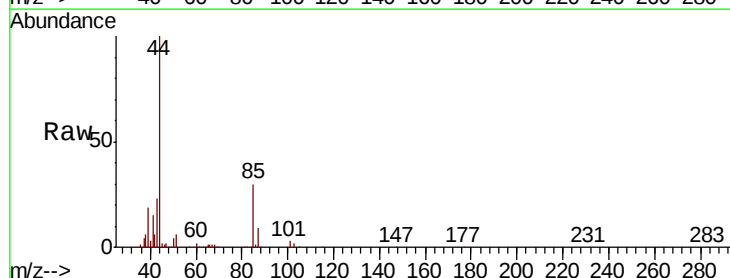
Acq: 15 Apr 2022 4:09

Tgt Ion: 85 Resp: 103857

Ion Ratio Lower Upper

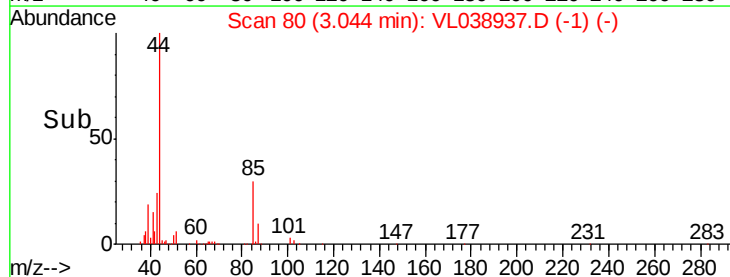
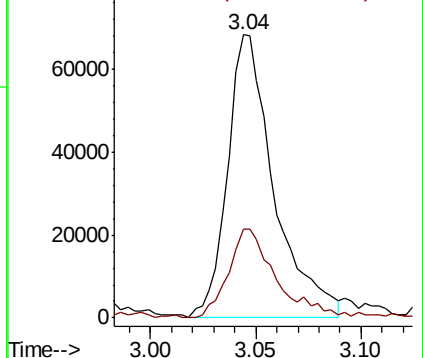
85 100

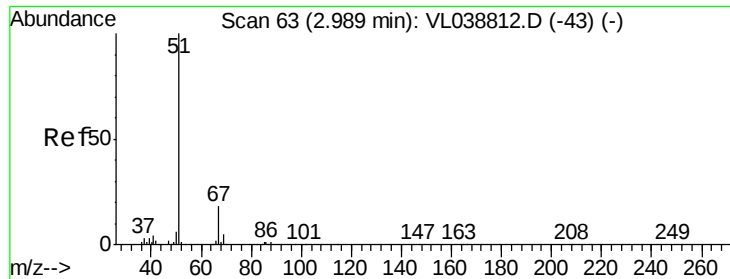
87 31.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 6.296 ppbv

RT: 2.96 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1161-8.01-1A-2

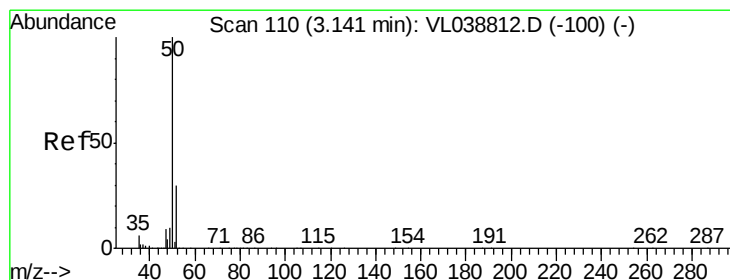
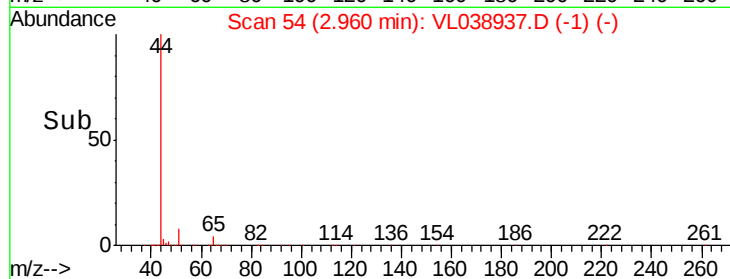
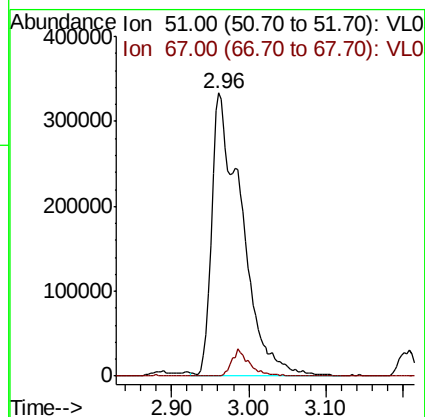
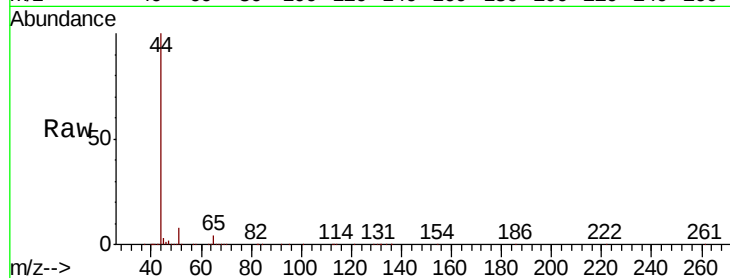
Acq: 15 Apr 2022 4:09

Tot Ion: 51 Resp: 901101

Ion Ratio Lower Upper

51 100

67 5.8 13.4 20.0#



#4

Chloromethane

Concen: 0.487 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL038937.D

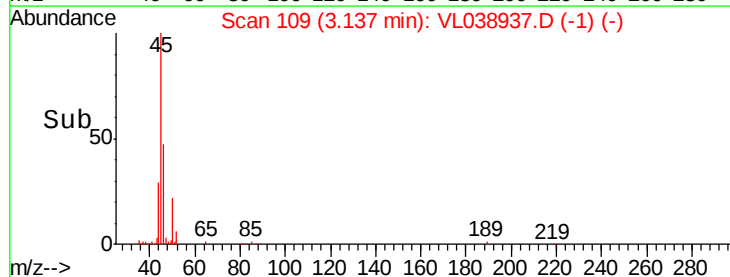
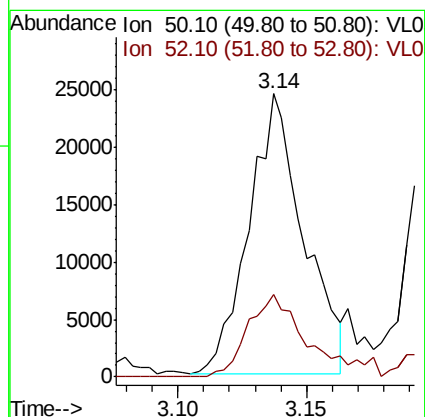
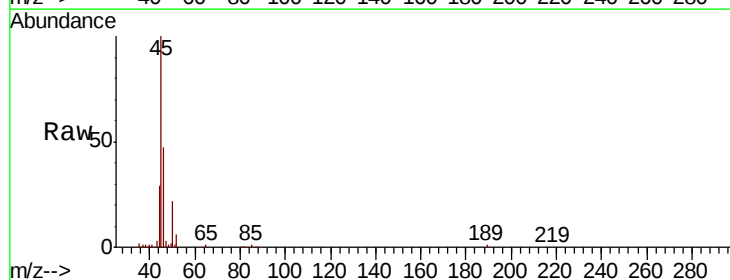
Acq: 15 Apr 2022 4:09

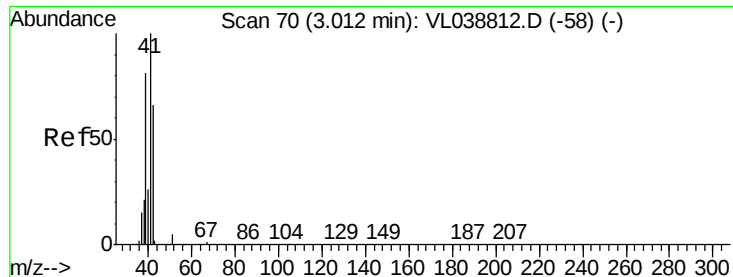
Tgt Ion: 50 Resp: 36125

Ion Ratio Lower Upper

50 100

52 29.3 24.3 36.5





#9

Propene

Concen: 34.823 ppbv

RT: 3.20 Instrument: MSVOA_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: 1161-8.01-A-2

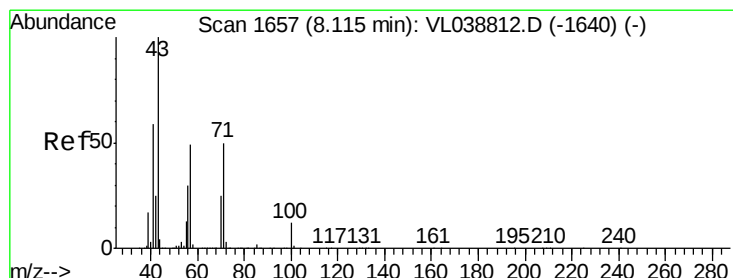
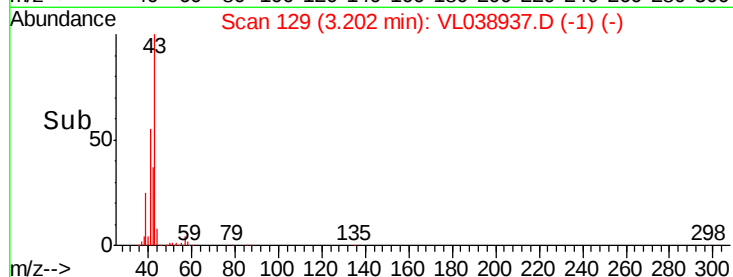
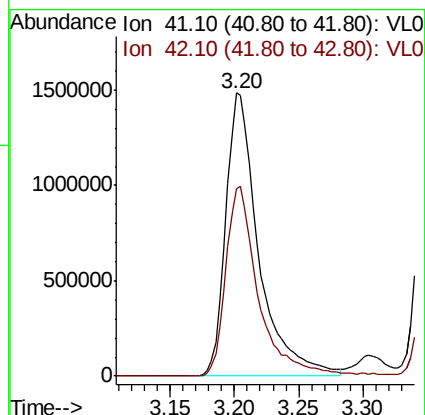
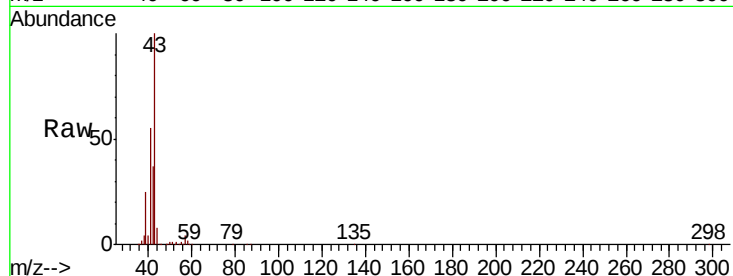
Acq: 15 Apr 2022 4:09

Tot Ion: 41 Resp: 2636829

Ion Ratio Lower Upper

41 100

42 66.8 54.2 81.4



#10

Heptane

Concen: 4.520 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.00 min

Lab File: VL038937.D

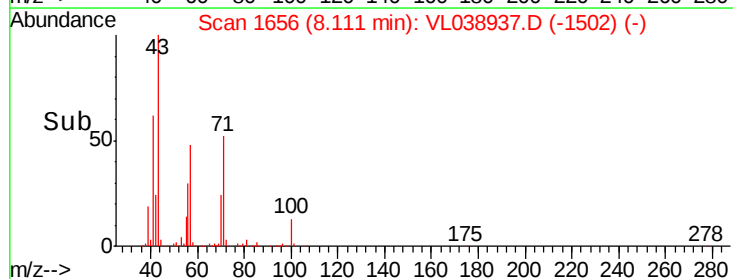
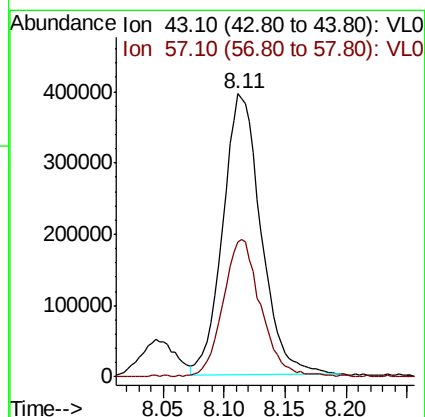
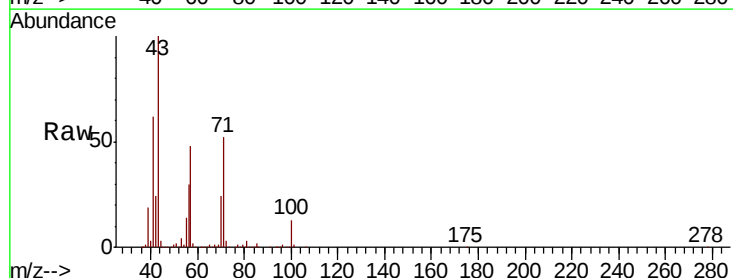
Acq: 15 Apr 2022 4:09

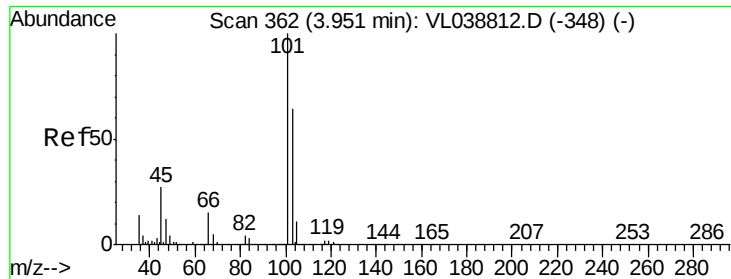
Tgt Ion: 43 Resp: 862110

Ion Ratio Lower Upper

43 100

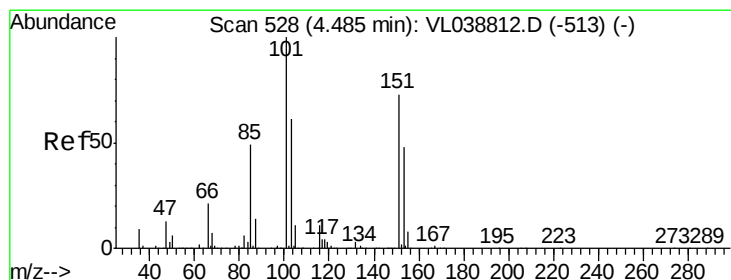
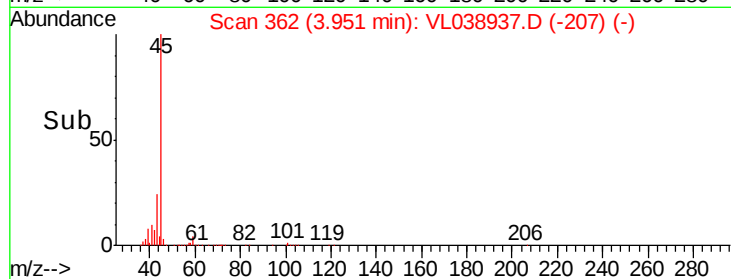
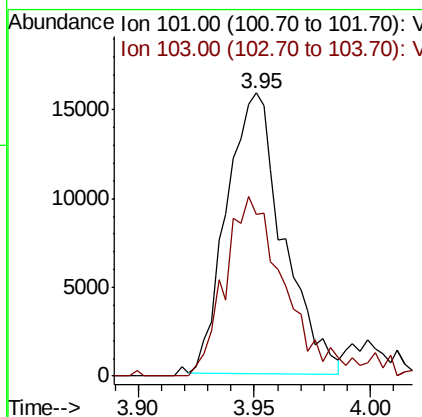
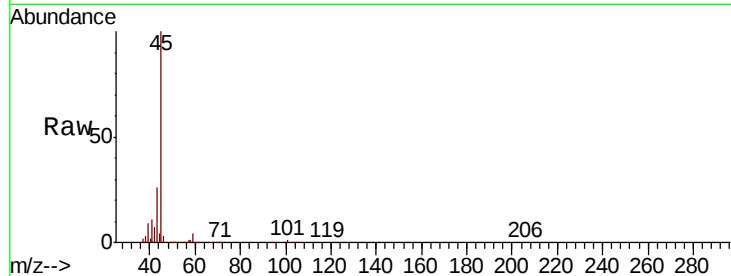
57 47.8 39.3 58.9





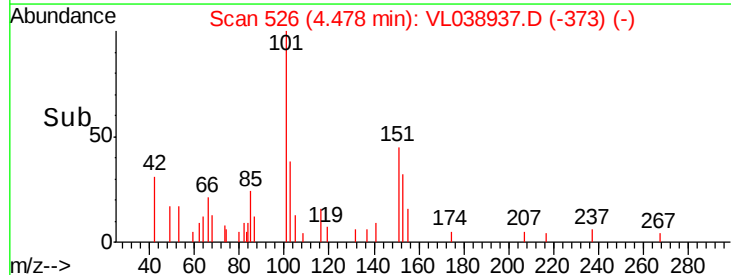
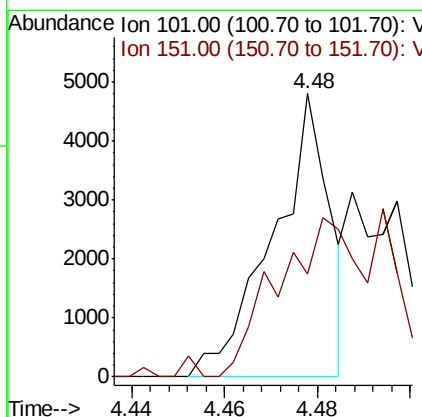
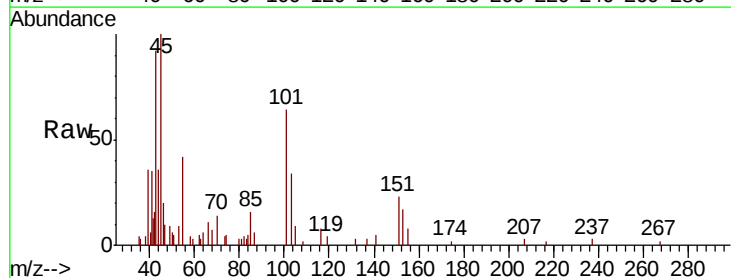
#11
 Trichlorofluoromethane
 Concen: 0.201 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 4:09

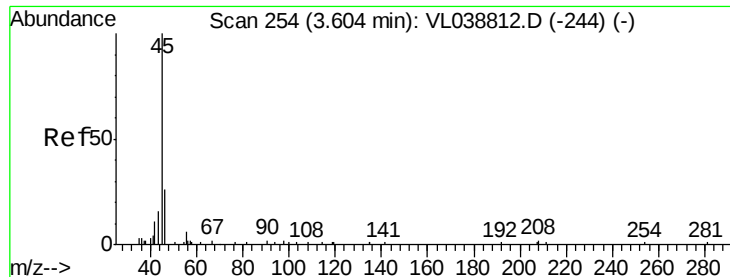
Tot Ion:101 Resp: 26803
 Ion Ratio Lower Upper
 101 100
 103 58.0 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.040 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL038937.D
 Acq: 15 Apr 2022 4:09

Tgt Ion:101 Resp: 4062
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.9 89.9#





#13

Ethanol

Concen: 865.762 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

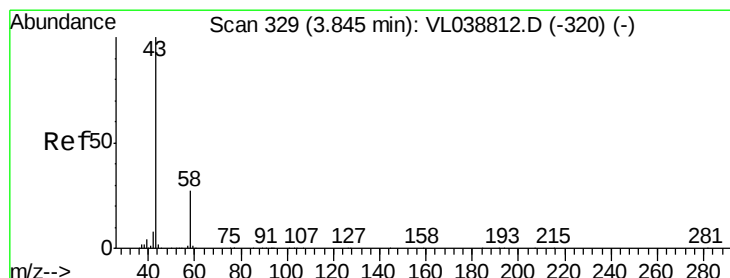
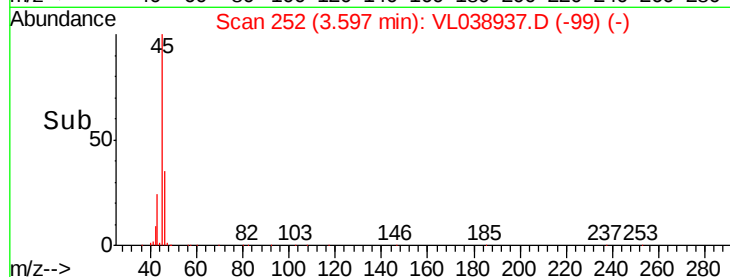
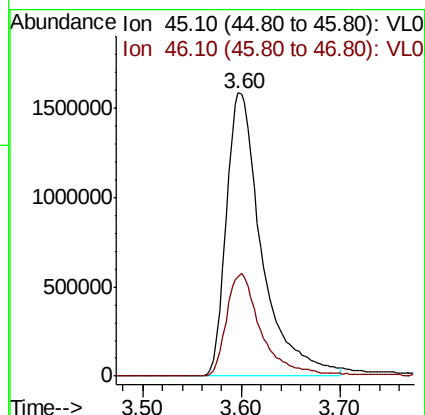
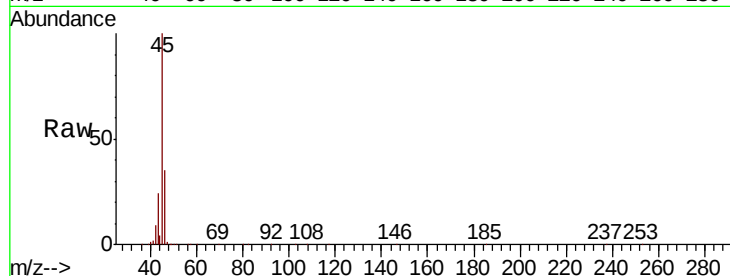
Acq: 15 Apr 2022 4:09

Tot Ion: 45 Resp: 3983953

Ion Ratio Lower Upper

45 100

46 36.6 0.0 0.0#



#15

Acetone

Concen: 32.416 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL038937.D

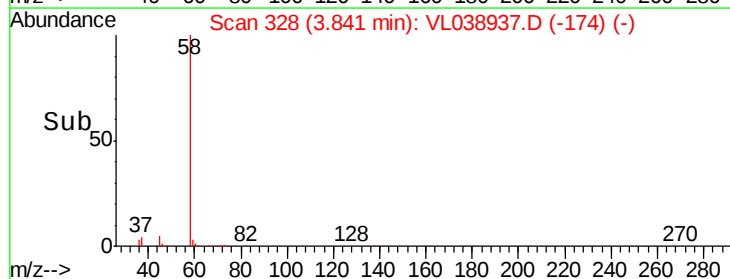
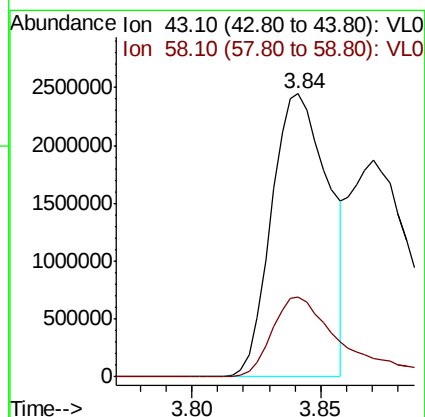
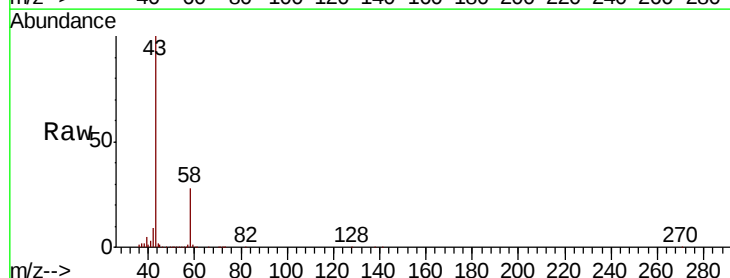
Acq: 15 Apr 2022 4:09

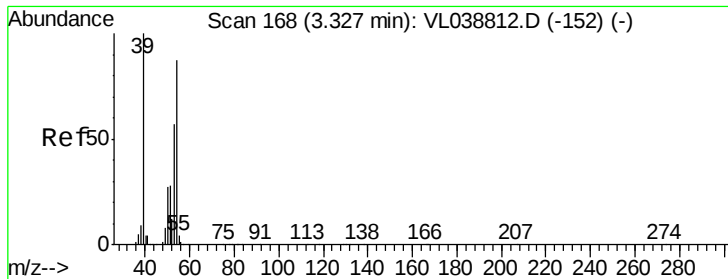
Tgt Ion: 43 Resp: 3784653

Ion Ratio Lower Upper

43 100

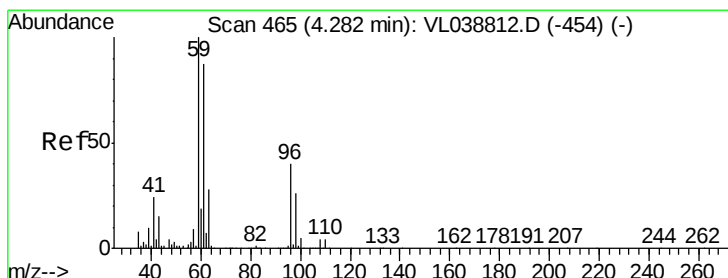
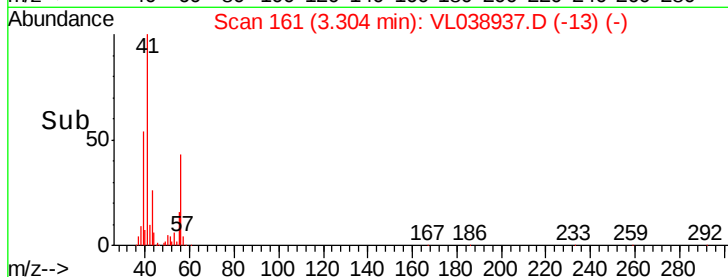
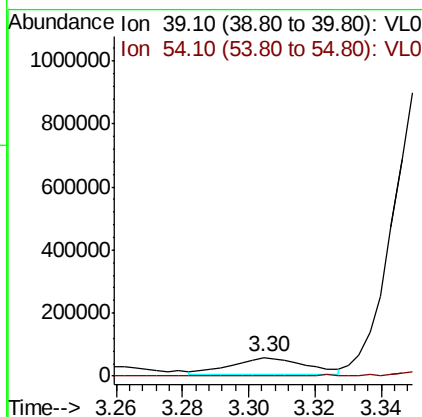
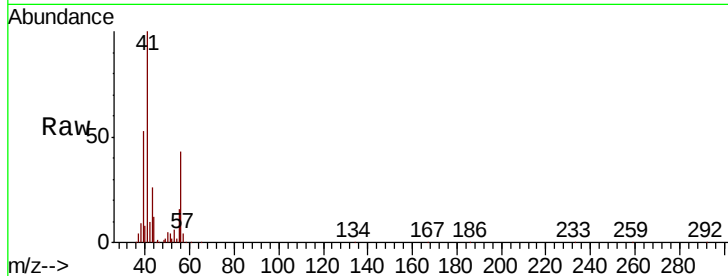
58 35.7 22.5 33.7#





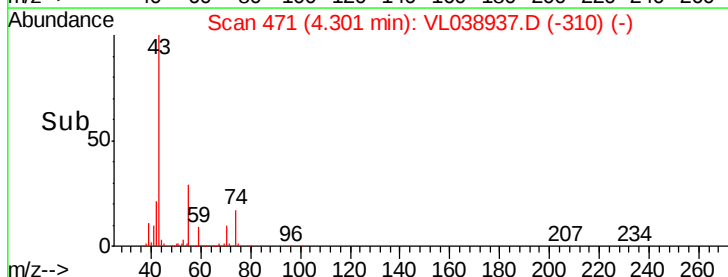
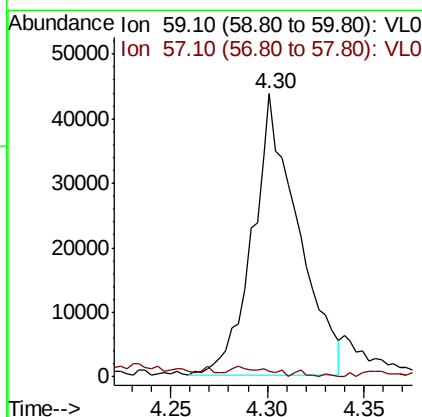
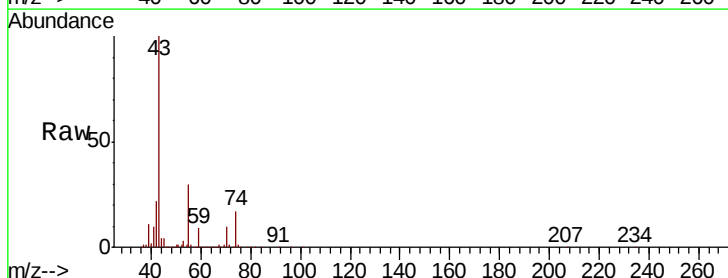
#16
 1,3-Butadiene
 Concen: 1.244 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 4:09

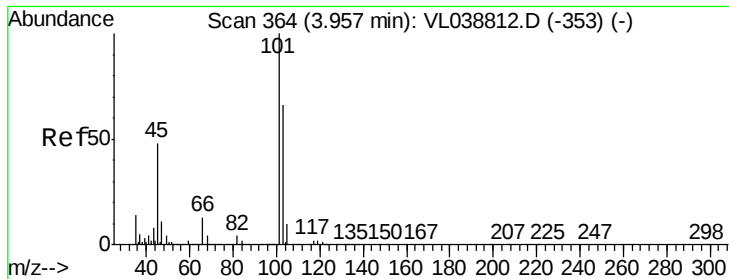
Tot Ion: 39 Resp: 83063
 Ion Ratio Lower Upper
 39 100
 54 0.0 64.8 97.2#



#17
 tert-Butyl alcohol
 Concen: 0.680 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.02 min
 Lab File: VL038937.D
 Acq: 15 Apr 2022 4:09

Tgt Ion: 59 Resp: 71219
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 188.114 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

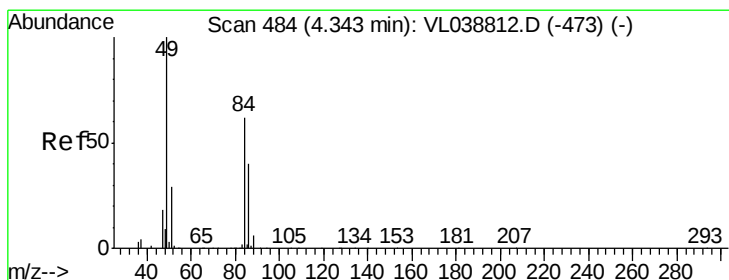
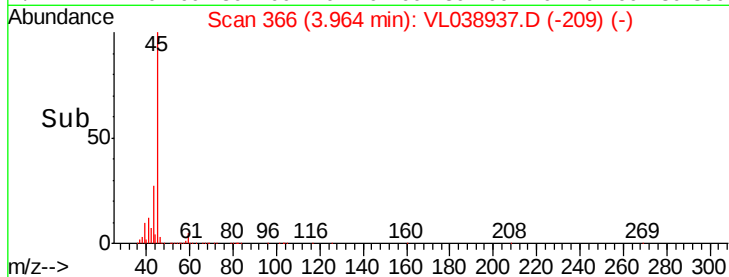
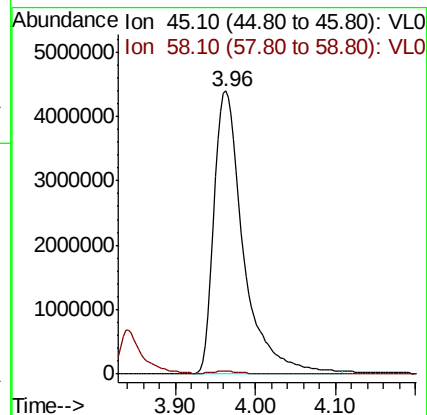
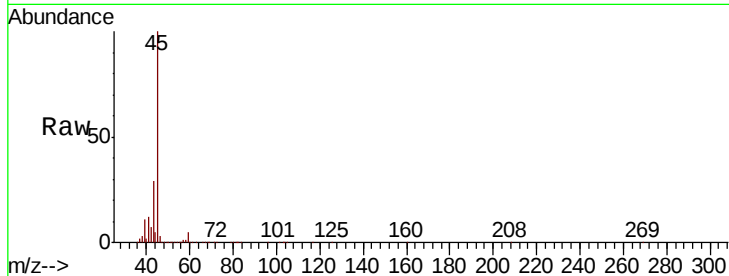
Acq: 15 Apr 2022 4:09

Tot Ion: 45 Resp: 11225192

Ion Ratio Lower Upper

45 100

58 1.1 0.0 0.0#



#20

Methylene Chloride

Concen: 1.100 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038937.D

Acq: 15 Apr 2022 4:09

Tgt Ion: 84 Resp: 46565

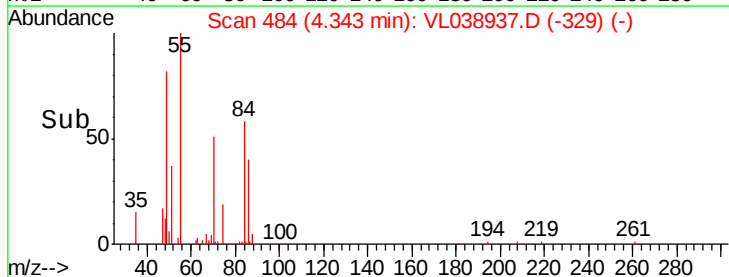
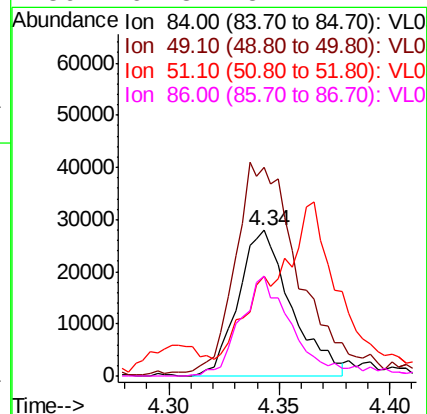
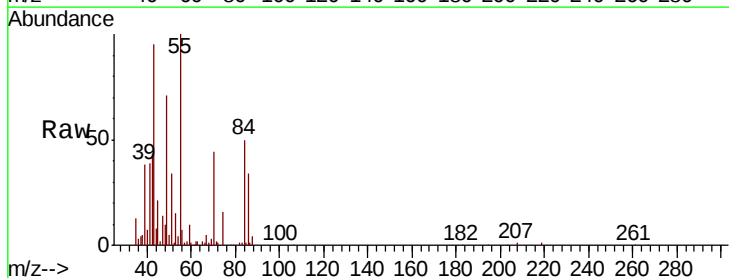
Ion Ratio Lower Upper

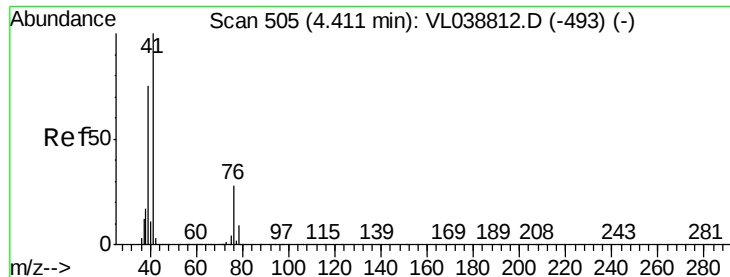
84 100

49 139.7 129.4 194.0

51 48.0 37.4 56.2

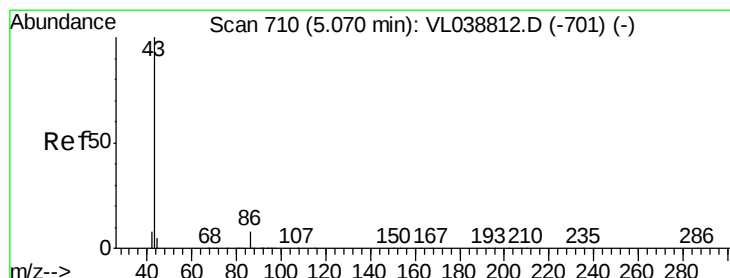
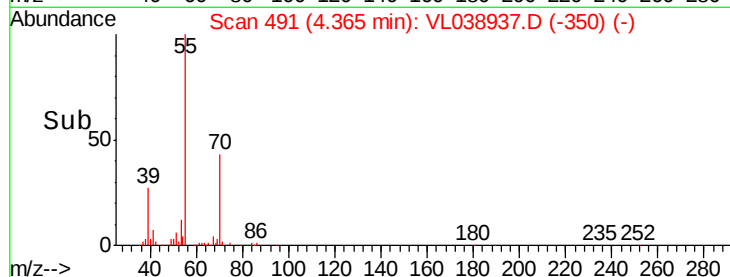
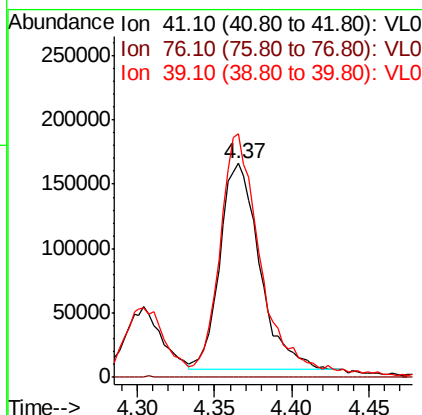
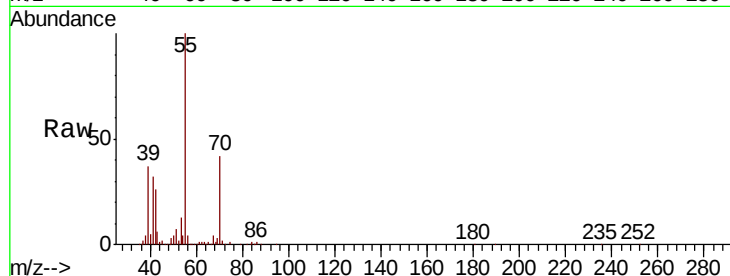
86 67.8 51.4 77.2





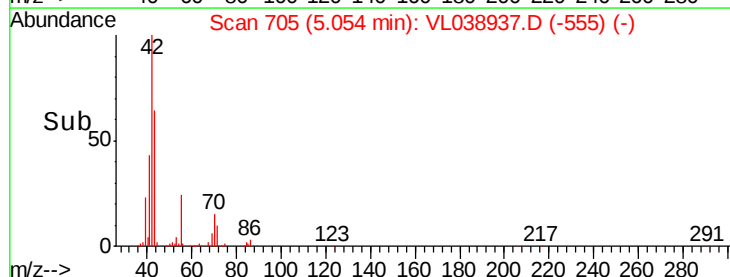
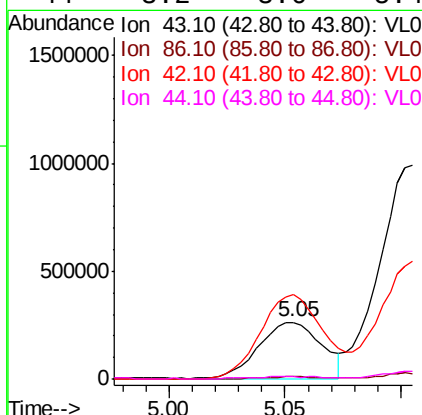
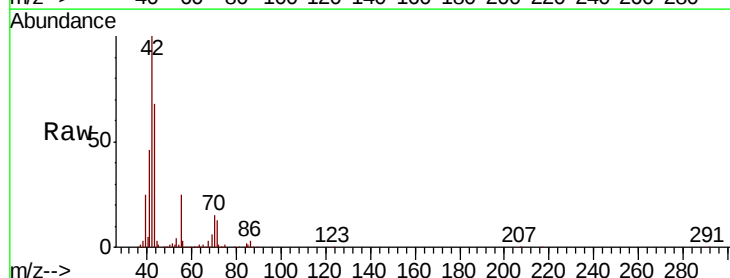
#21
Allvl Chloride
Concen: 3.275 ppbv
RT: 4.37
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 4:09

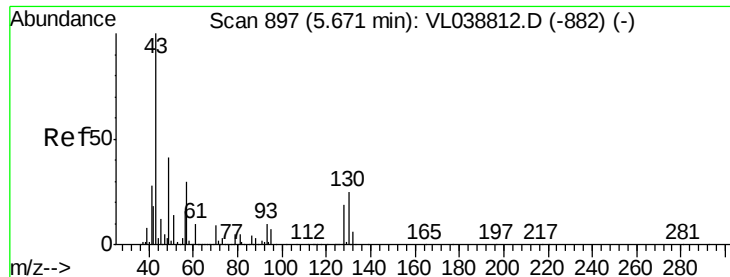
Tot Ion: 41 Resp: 286276
Ion Ratio Lower Upper
41 100
76 0.0 23.7 35.5#
39 122.7 62.0 93.0#



#23
Vinyl Acetate
Concen: 4.329 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.02 min
Lab File: VL038937.D
Acq: 15 Apr 2022 4:09

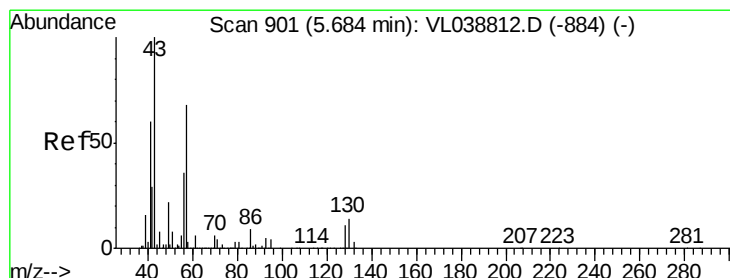
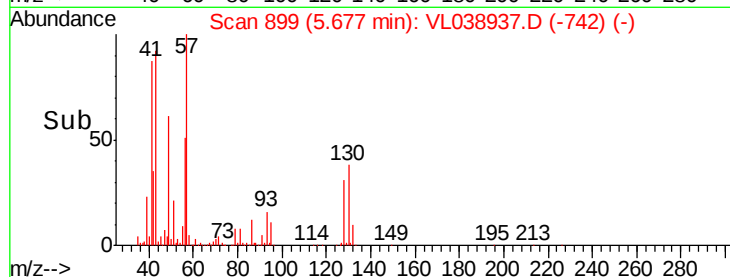
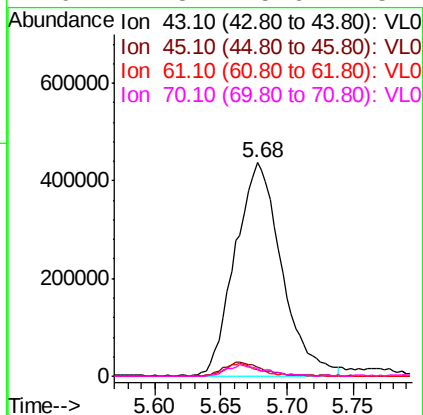
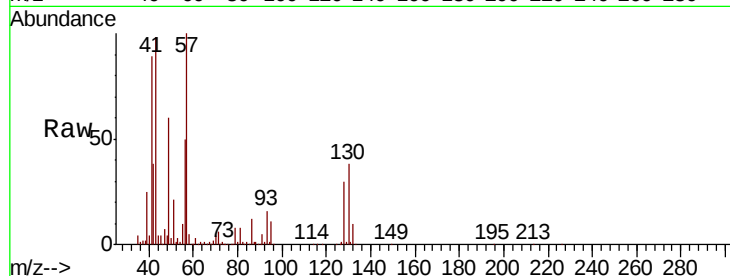
Tgt Ion: 43 Resp: 492170
Ion Ratio Lower Upper
43 100
86 3.9 5.8 8.6#
42 148.1 7.8 11.6#
44 3.2 3.6 5.4#





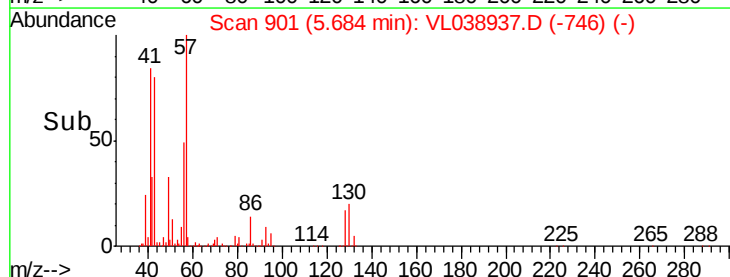
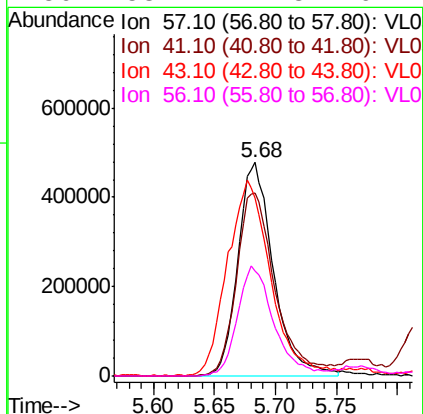
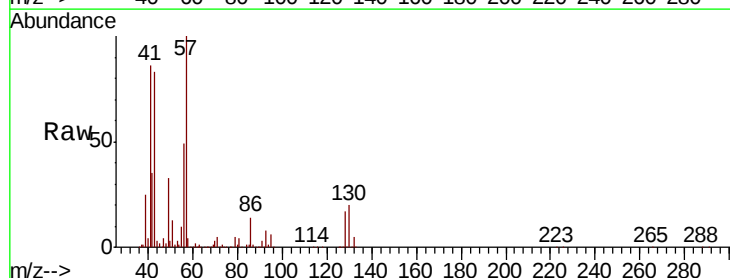
#25
Ethyl Acetate
Concen: 3.585 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 4:09

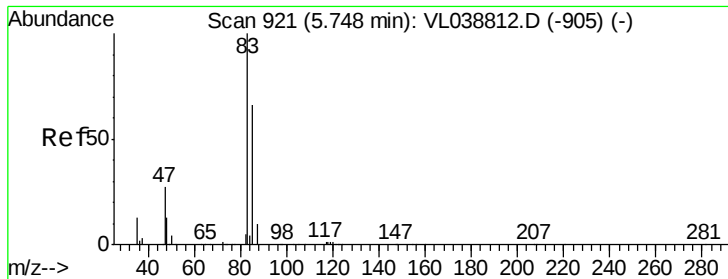
Tot Ion:	43	Resp:	1061987
Ion	Ratio	Lower	Upper
43	100		
45	5.8	8.4	12.6#
61	4.8	7.9	11.9#
70	4.8	5.6	8.4#



#26
Hexane
Concen: 7.106 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL038937.D
Acq: 15 Apr 2022 4:09

Tgt Ion:	57	Resp:	958248
Ion	Ratio	Lower	Upper
57	100		
41	93.5	72.0	108.0
43	115.3	186.6	280.0#
56	53.2	42.8	64.2





#29

Chloroform

Concen: 0.080 ppbv

RT: 5.74 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1161-8.01-A-2

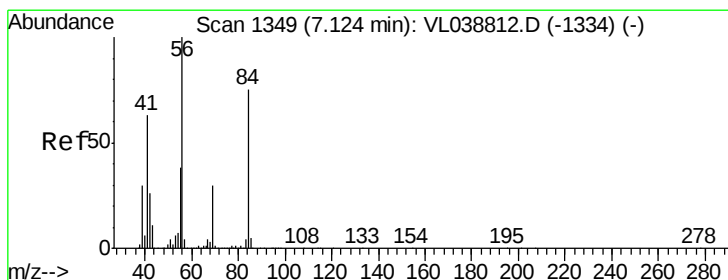
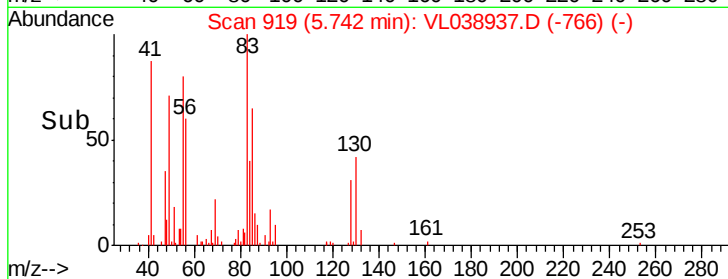
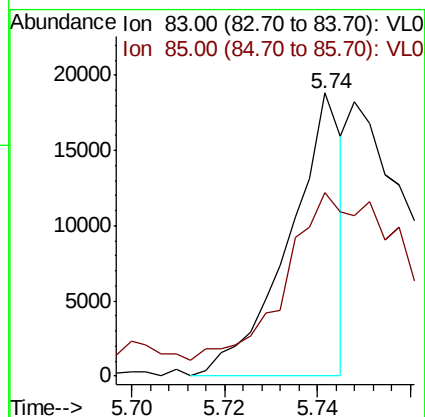
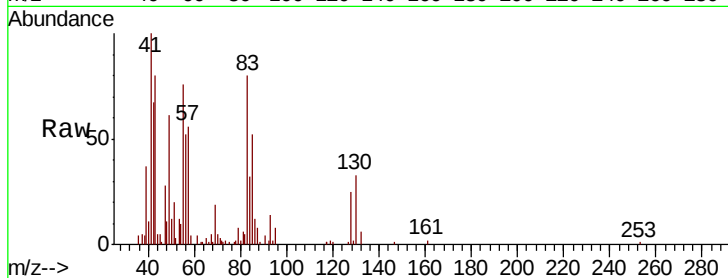
Acq: 15 Apr 2022 4:09

Tot Ion: 83 Resp: 15019

Ion Ratio Lower Upper

83 100

85 59.1 52.5 78.7



#30

Cyclohexane

Concen: 0.984 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.00 min

Lab File: VL038937.D

Acq: 15 Apr 2022 4:09

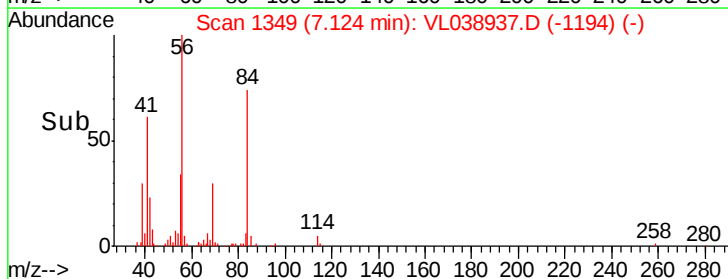
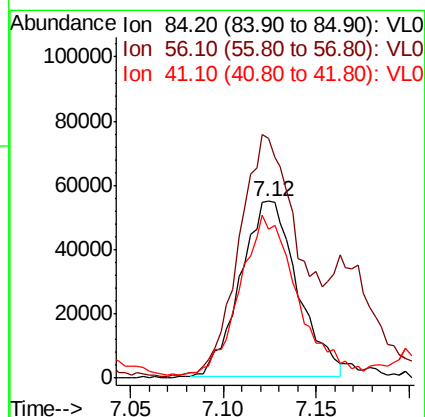
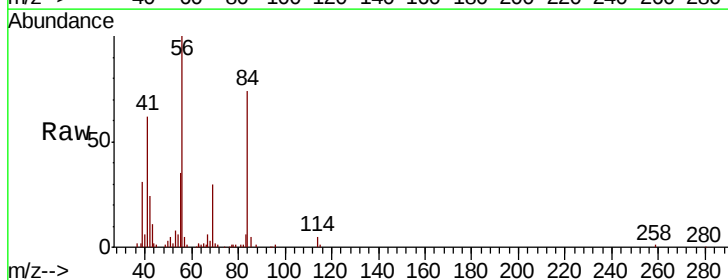
Tgt Ion: 84 Resp: 116928

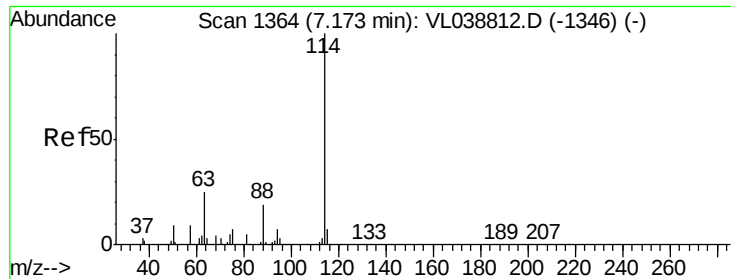
Ion Ratio Lower Upper

84 100

56 192.9 114.4 171.6#

41 89.7 69.0 103.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17

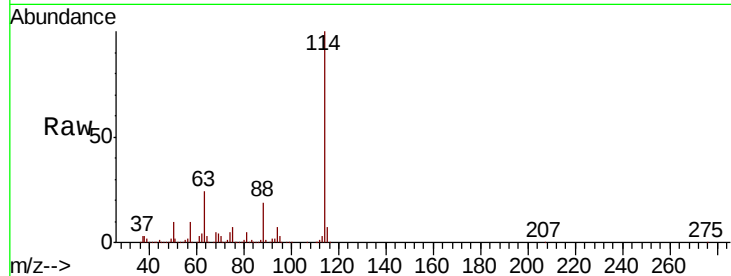
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 4:09

Tot Ion:114 Resp: 3067768

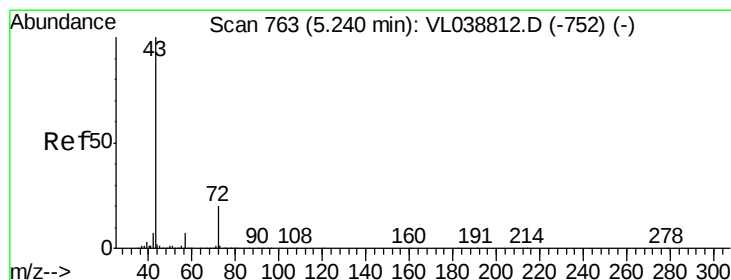
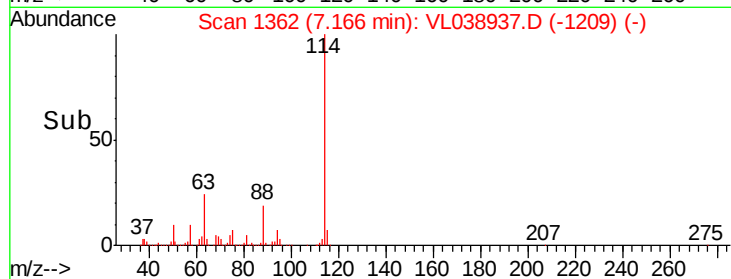
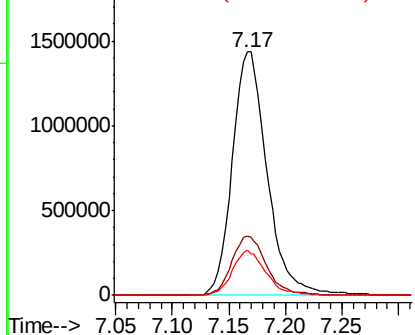
Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.8	29.8
88	18.2	14.2	21.4



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: 8.095 ppbv

RT: 5.23 min Scan# 761

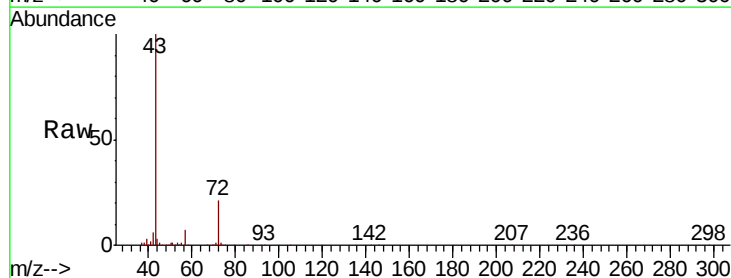
Delta R.T. -0.01 min

Lab File: VL038937.D

Acq: 15 Apr 2022 4:09

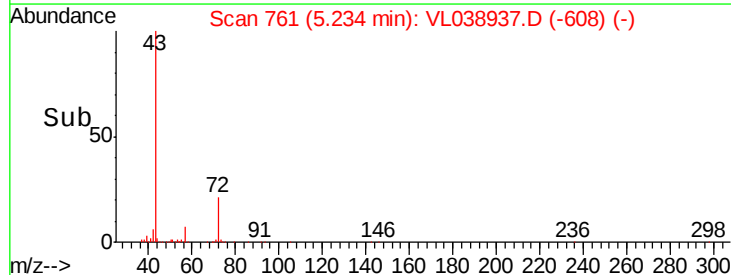
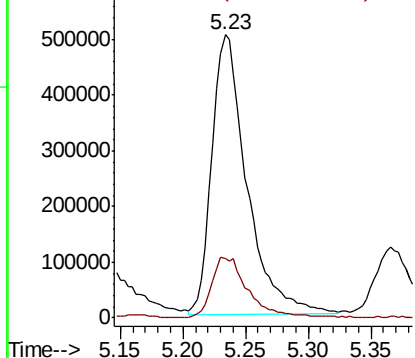
Tgt Ion: 43 Resp: 981245

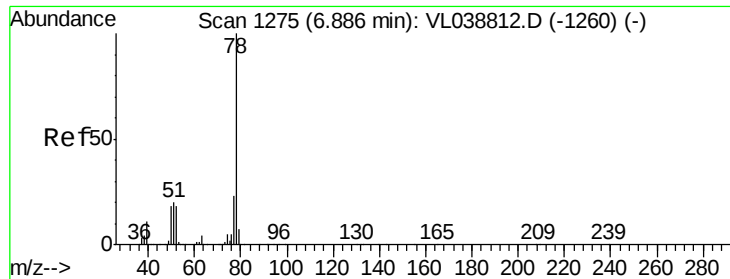
Ion	Ratio	Lower	Upper
43	100		
72	21.8	16.9	25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

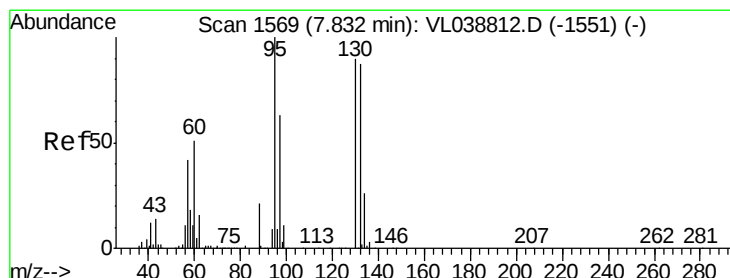
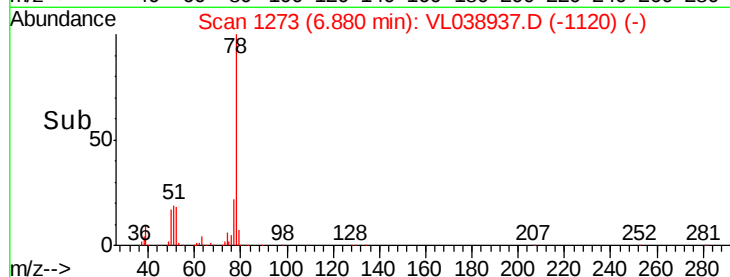
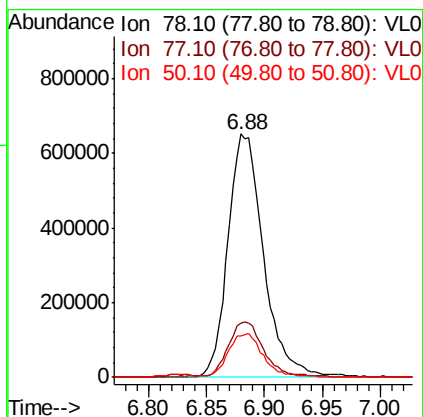
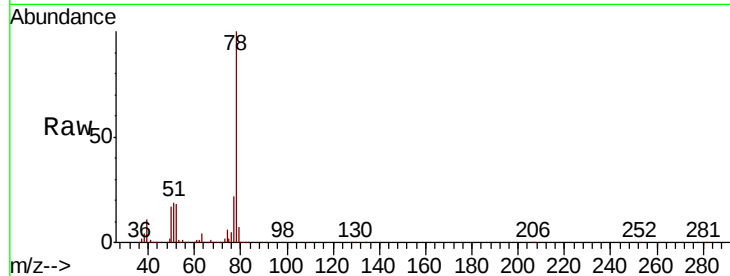




#36
Benzene
Concen: 4.949 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 4:09

Tot Ion: 78 Resp: 1381284

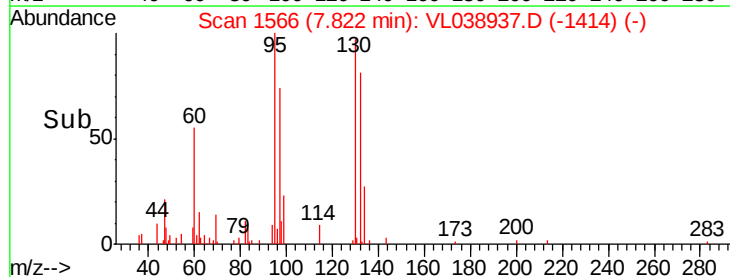
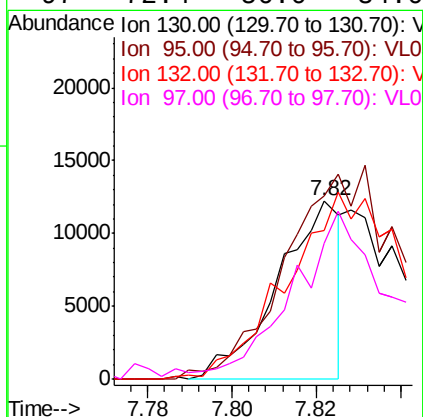
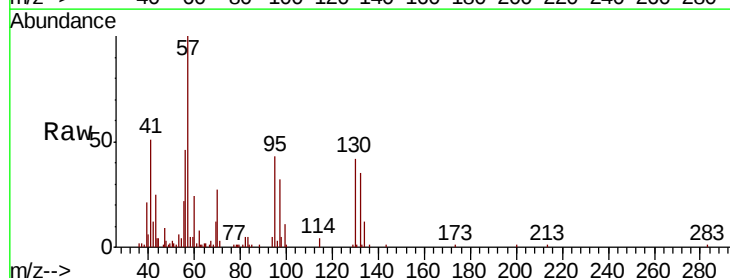
Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.2	27.2
50	16.9	14.0	21.0

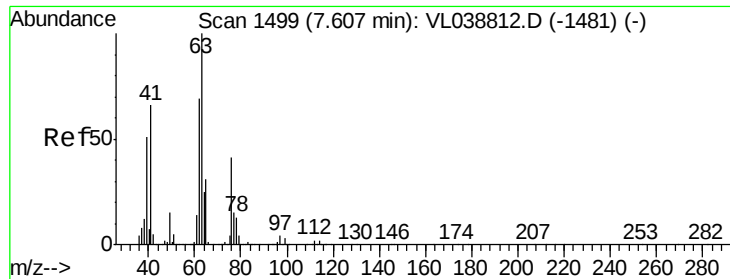


#38
Trichloroethene
Concen: 0.110 ppbv
RT: 7.82 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VL038937.D
Acq: 15 Apr 2022 4:09

Tgt Ion: 130 Resp: 12647

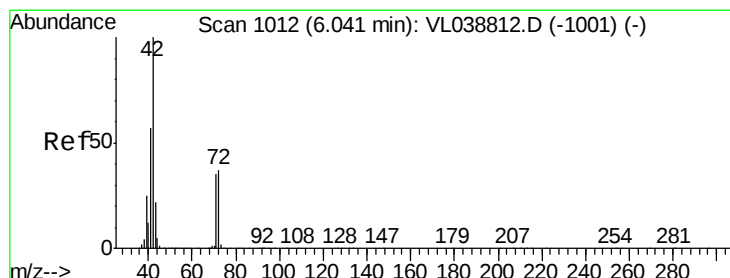
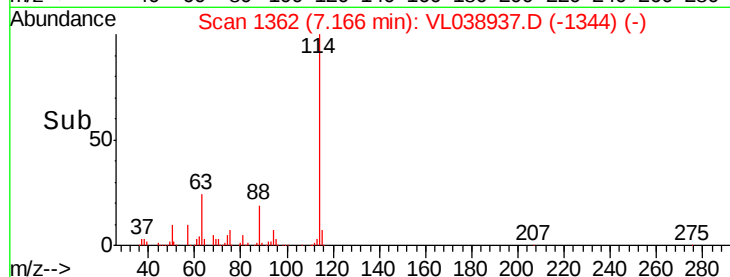
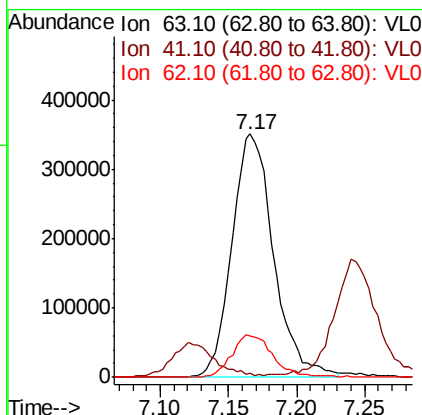
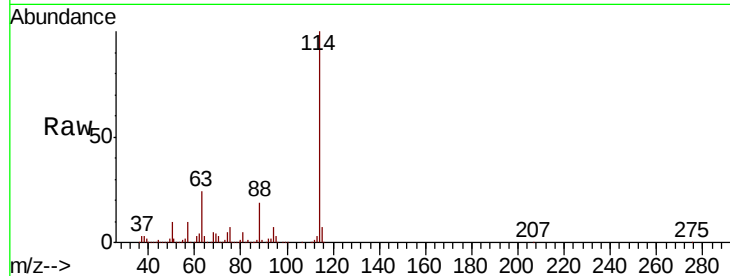
Ion	Ratio	Lower	Upper
130	100		
95	97.7	89.4	134.0
132	80.9	77.7	116.5
97	72.4	56.0	84.0





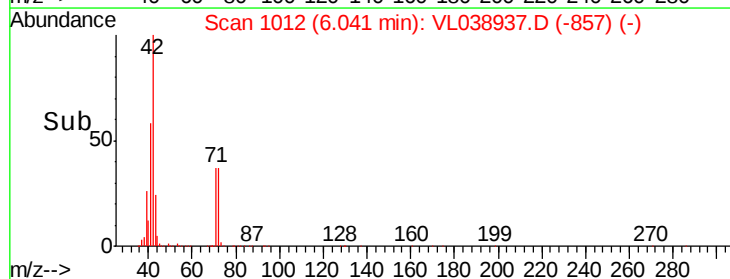
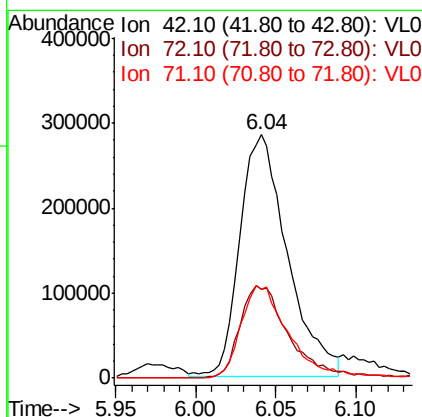
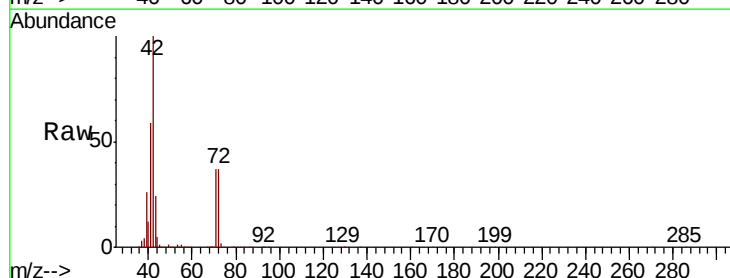
#39
 1,2-Dichloropropane
 Concen: 6.907 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 4:09

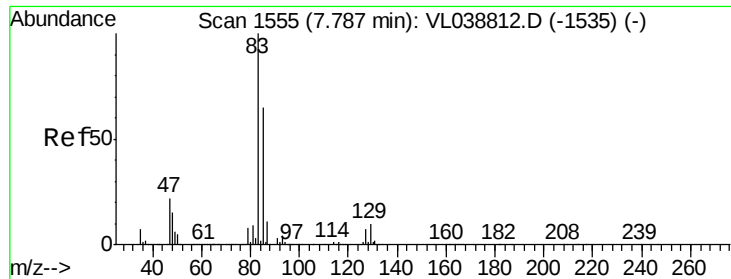
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	16.9	55.0	82.4#



#41
 Tetrahydrofuran
 Concen: 5.035 ppbv
 RT: 6.04 min Scan# 1012
 Delta R.T. -0.00 min
 Lab File: VL038937.D
 Acq: 15 Apr 2022 4:09

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.0	31.4	47.0
71	39.2	30.2	45.4





#42

Bromodichloromethane

Concen: 0.124 ppbv

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 4:09

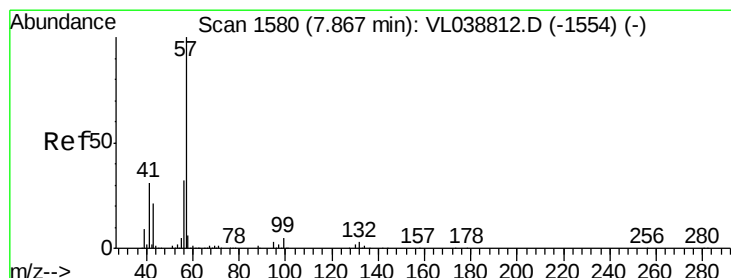
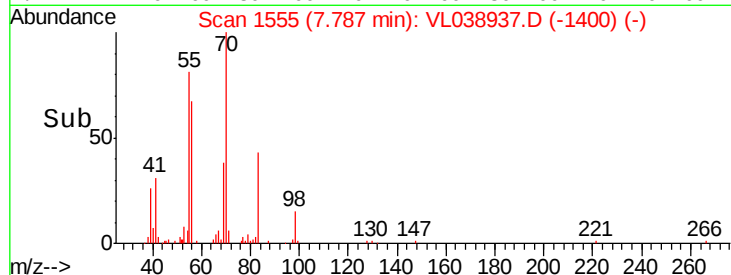
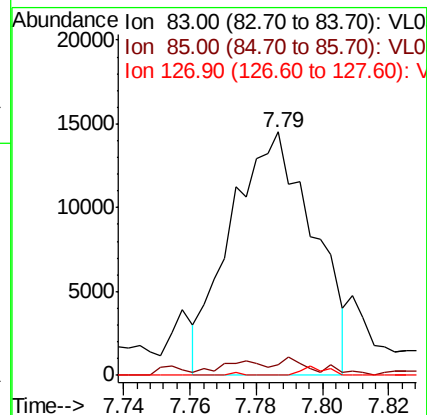
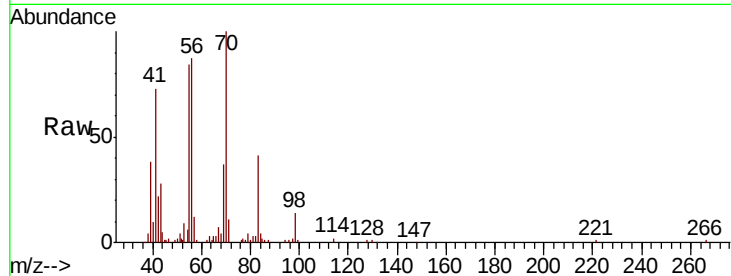
Tot Ion: 83 Resp: 25076

Ion Ratio Lower Upper

83 100

85 4.3 51.7 77.5#

127 0.0 5.9 8.9#



#44

2,2,4-Trimethylpentane

Concen: 3.977 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. -0.01 min

Lab File: VL038937.D

Acq: 15 Apr 2022 4:09

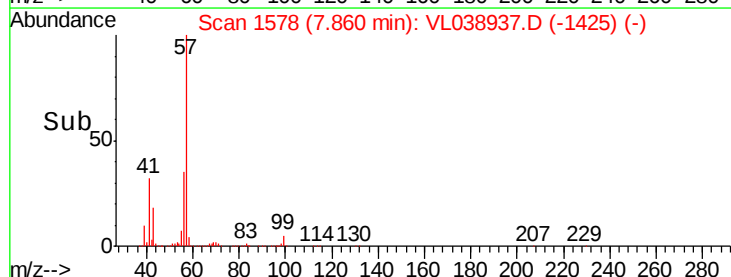
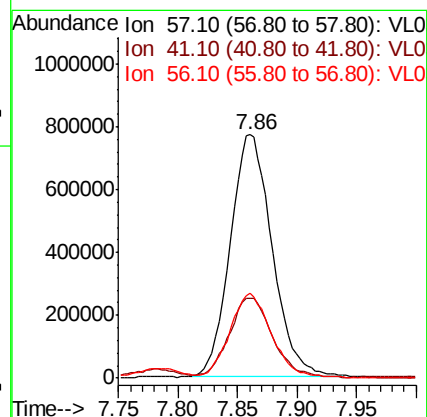
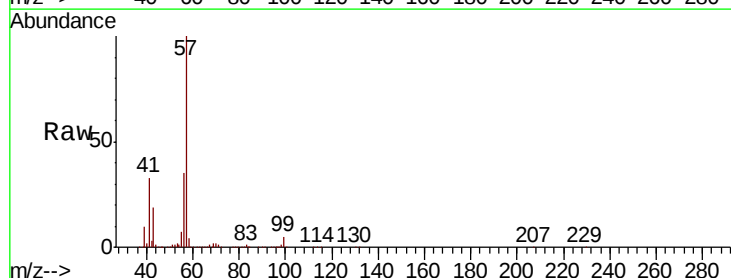
Tgt Ion: 57 Resp: 1879118

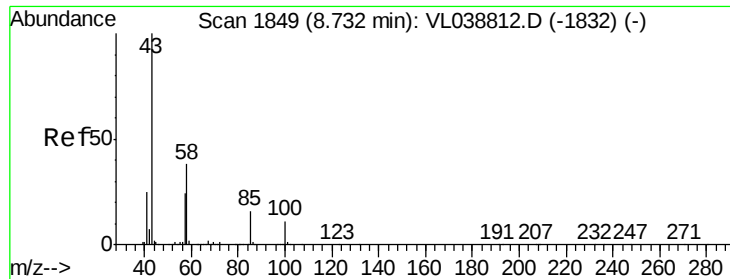
Ion Ratio Lower Upper

57 100

41 33.6 25.0 37.4

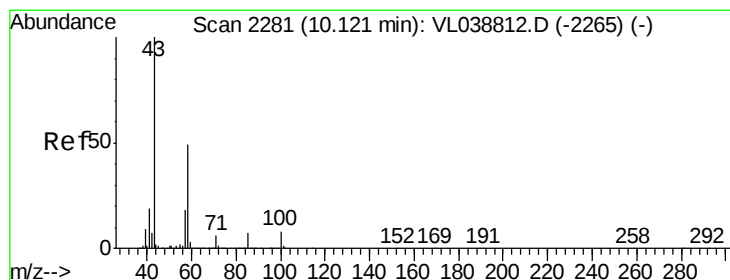
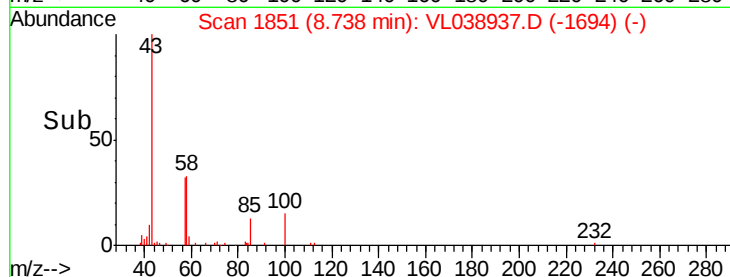
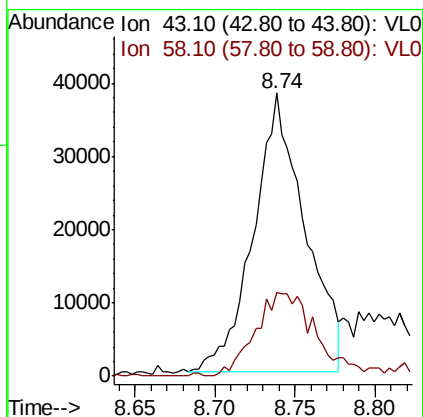
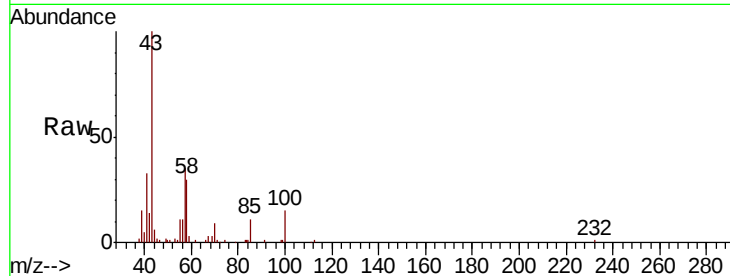
56 35.3 25.3 37.9





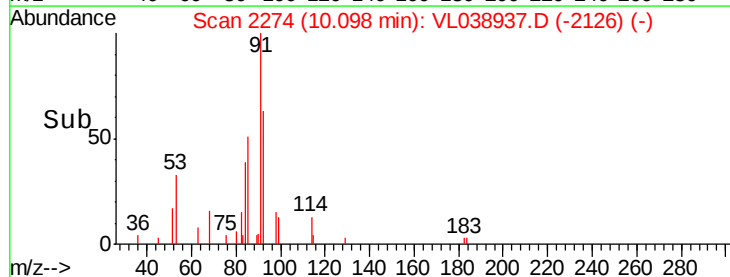
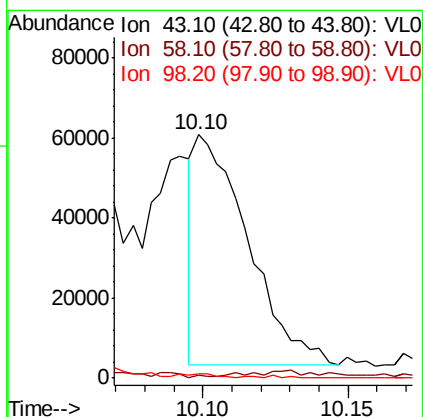
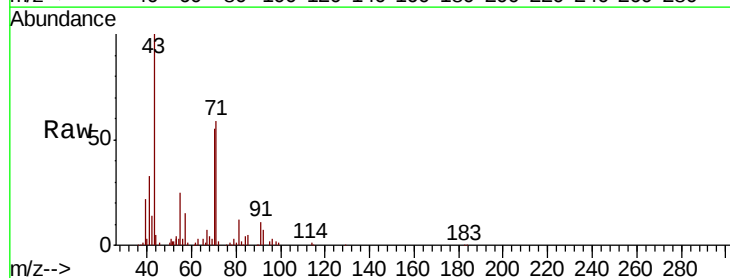
#50
 4-Methyl-2-Pentanone
 Concen: 0.310 ppbv
 RT: 8.74
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 1161-8.01-A-2
 Acq: 15 Apr 2022 4:09

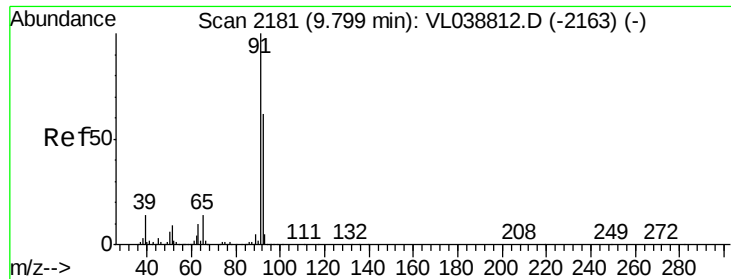
Tot Ion: 43 Resp: 84649
 Ion Ratio Lower Upper
 43 100
 58 38.1 29.0 43.6



#51
 2-Hexanone
 Concen: 0.354 ppbv
 RT: 10.10 min Scan# 2274
 Delta R.T. -0.02 min
 Lab File: VL038937.D
 Acq: 15 Apr 2022 4:09

Tgt Ion: 43 Resp: 72787
 Ion Ratio Lower Upper
 43 100
 58 6.6 41.4 62.0#
 98 0.0 0.1 0.1#





#53

Toluene

Concen: 38.241 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

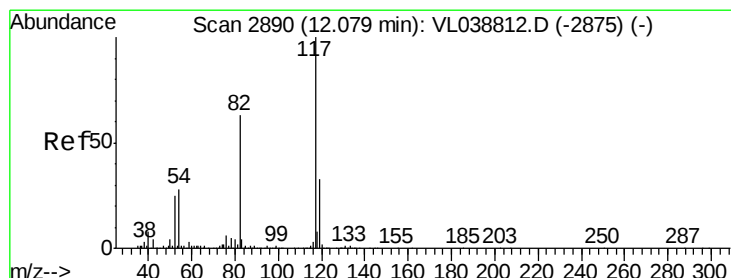
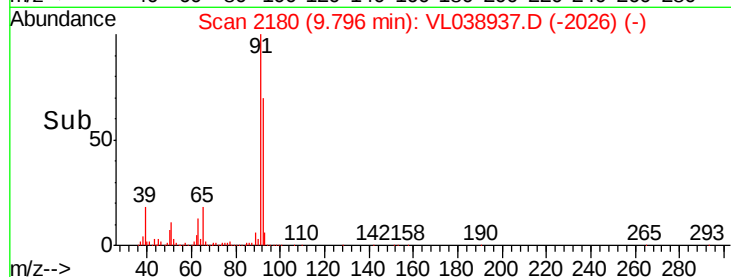
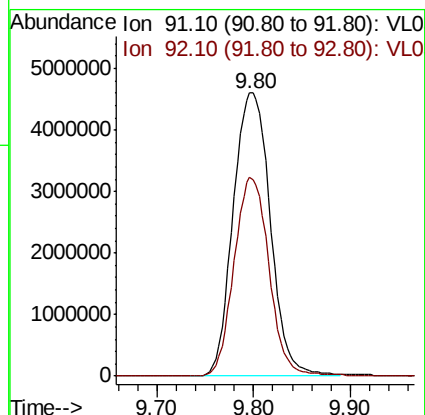
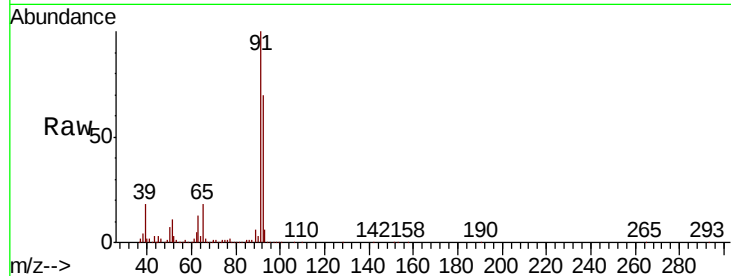
Acq: 15 Apr 2022 4:09

Tot Ion: 91 Resp: 12320125

Ion Ratio Lower Upper

91 100

92 66.6 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038937.D

Acq: 15 Apr 2022 4:09

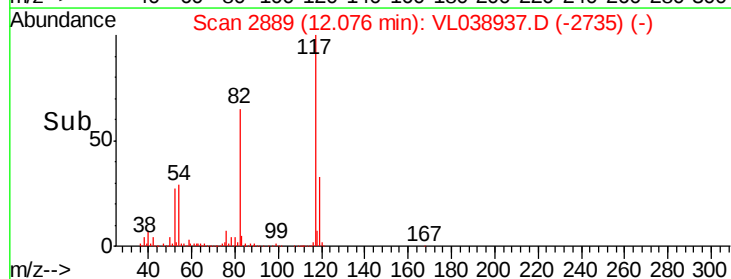
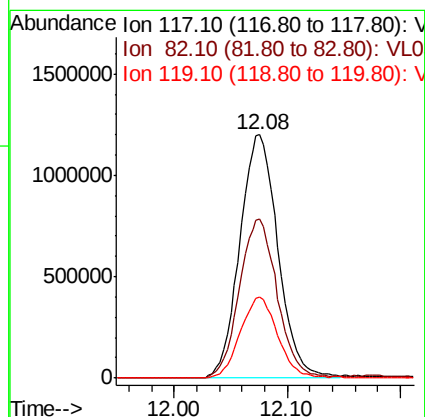
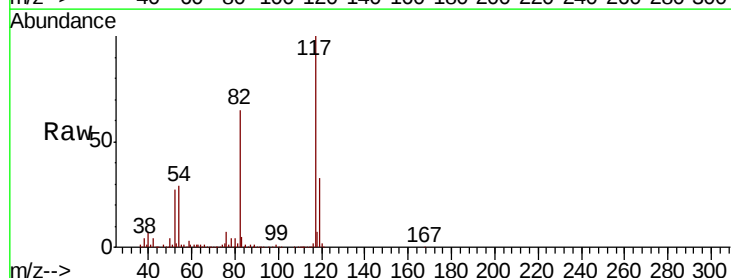
Tgt Ion: 117 Resp: 2812888

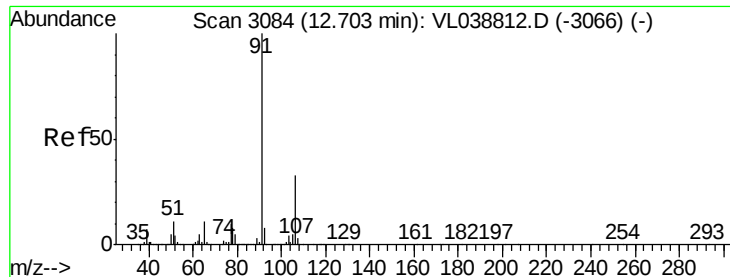
Ion Ratio Lower Upper

117 100

82 64.9 53.0 79.6

119 33.1 24.9 37.3





#58

Ethyl Benzene

Concen: 8.029 ppbv

RT: 12.70 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

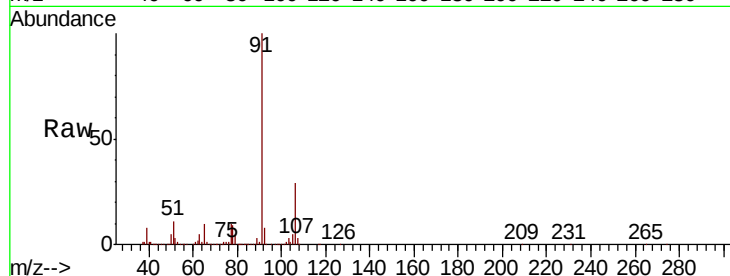
Acq: 15 Apr 2022 4:09

Tot Ion: 91 Resp: 3374660

Ion Ratio Lower Upper

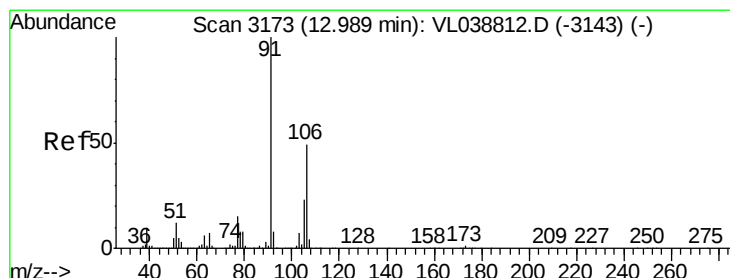
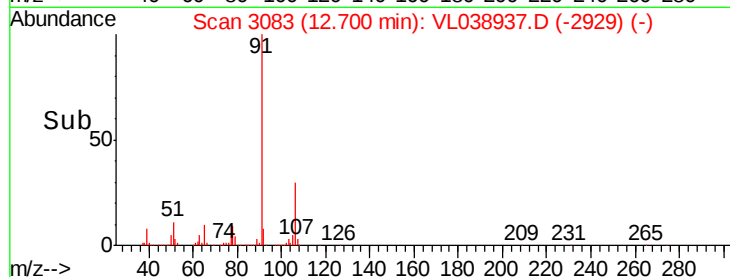
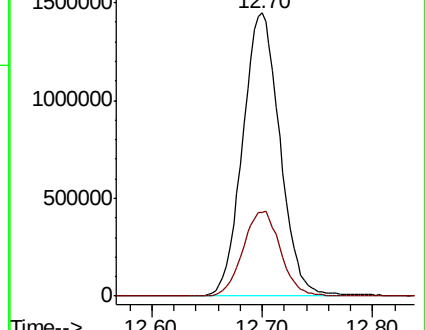
91 100

106 29.5 26.7 40.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 27.849 ppbv

RT: 12.96 min Scan# 3164

Delta R.T. -0.03 min

Lab File: VL038937.D

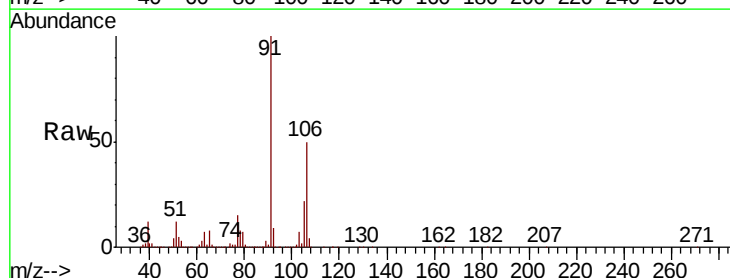
Acq: 15 Apr 2022 4:09

Tgt Ion: 91 Resp: 9834337

Ion Ratio Lower Upper

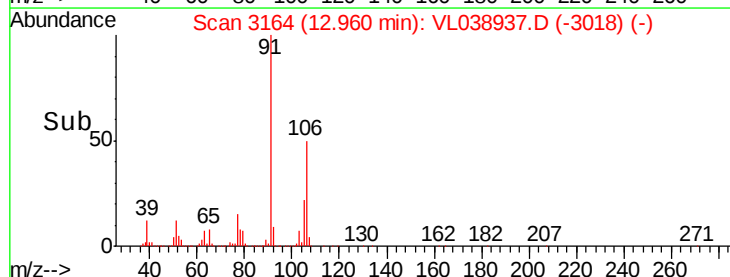
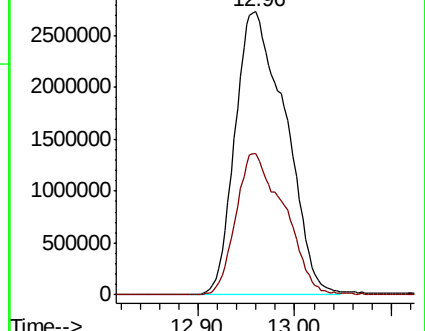
91 100

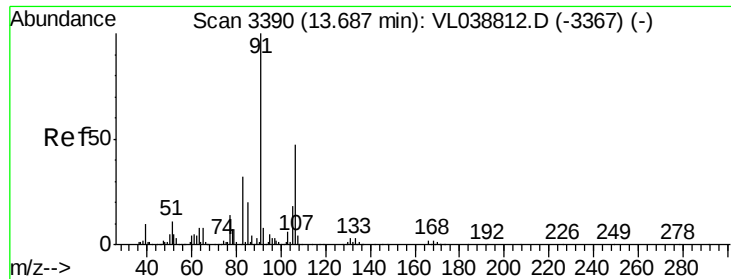
106 48.6 37.1 55.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

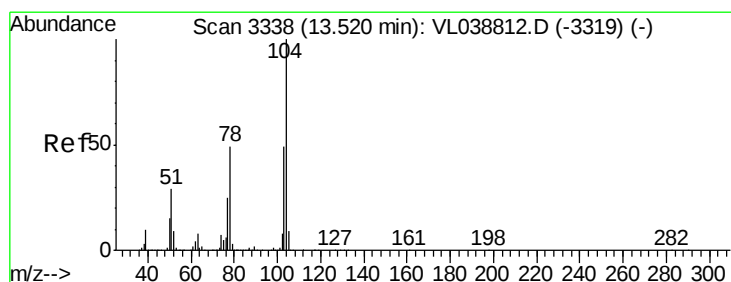
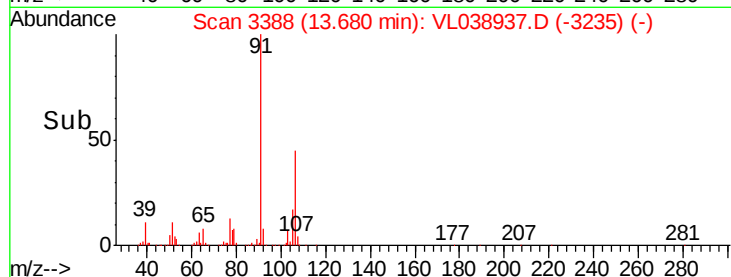
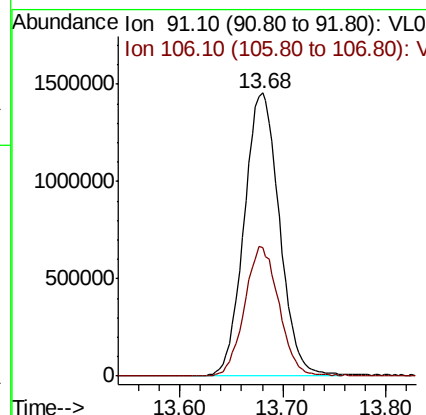
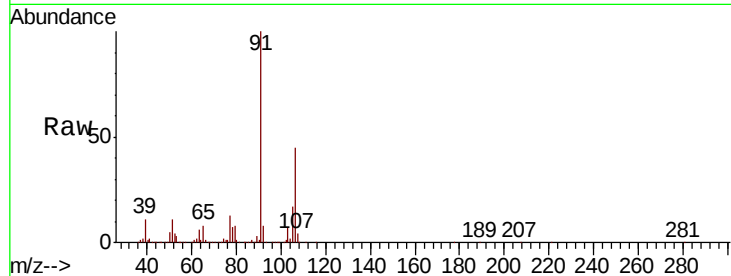
Ion 106.10 (105.80 to 106.80): V





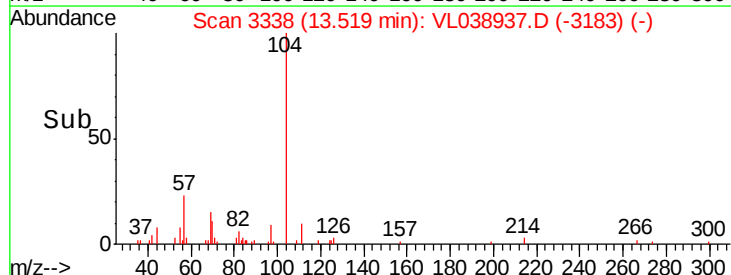
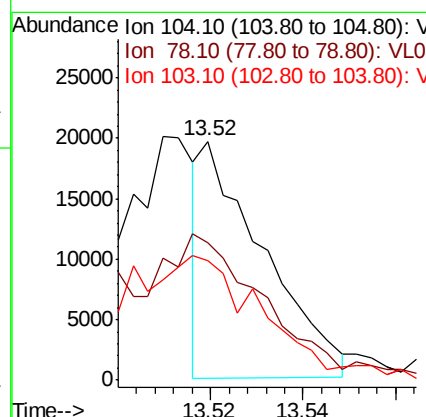
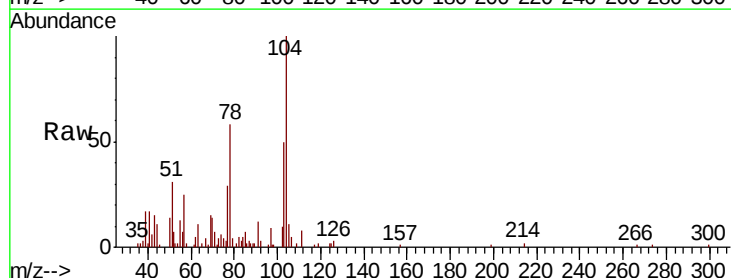
#60
o-Xylene
Concen: 10.447 ppbv
RT: 13.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Apr 2022 4:09

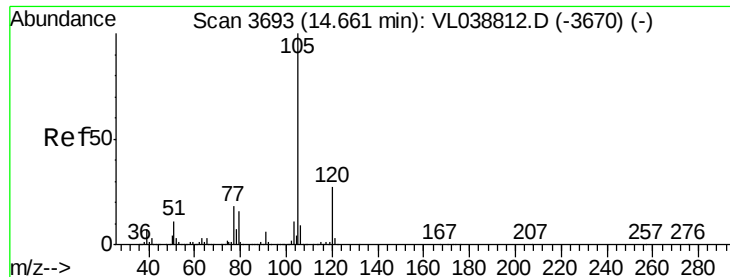
Tot Ion: 91 Resp: 3452212
Ion Ratio Lower Upper
91 100
106 44.9 23.8 71.4



#61
Styrene
Concen: 0.091 ppbv
RT: 13.52 min Scan# 3338
Delta R.T.: -0.00 min
Lab File: VL038937.D
Acq: 15 Apr 2022 4:09

Tgt Ion:104 Resp: 18283
Ion Ratio Lower Upper
104 100
78 142.0 40.5 60.7#
103 125.4 39.0 58.4#





#62

Isopropylbenzene

Concen: 0.281 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

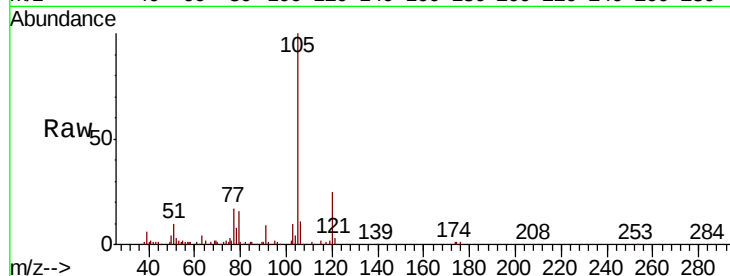
Acq: 15 Apr 2022 4:09

Tot Ion:105 Resp: 139356

Ion Ratio Lower Upper

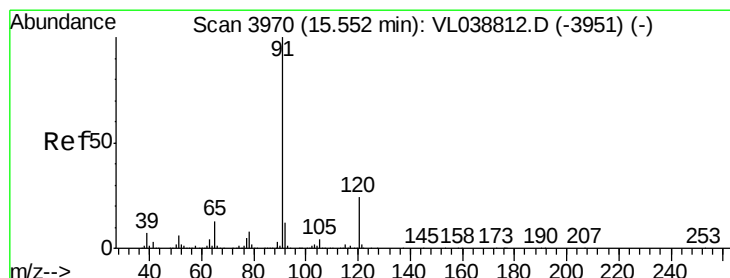
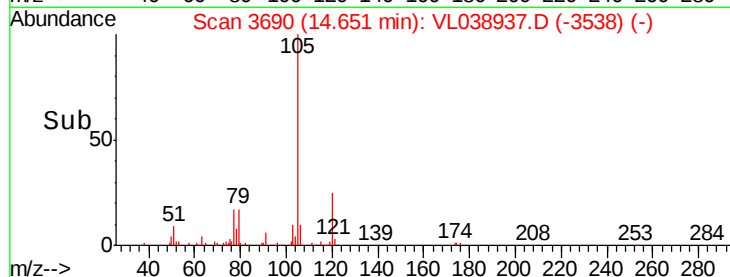
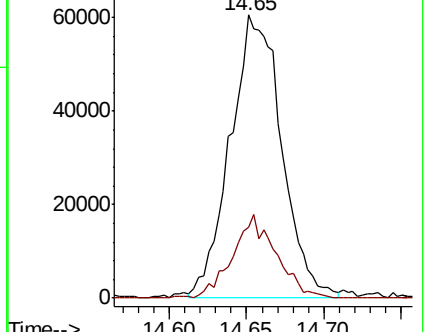
105 100

120 25.1 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 1.248 ppbv

RT: 15.55 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VL038937.D

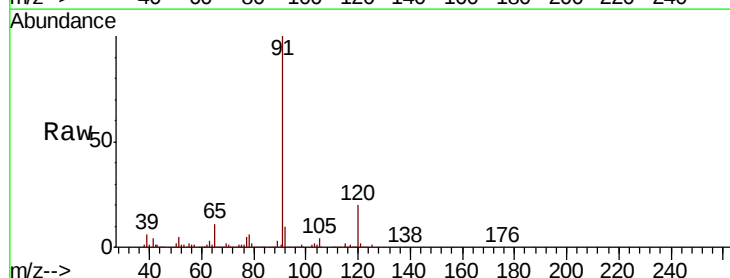
Acq: 15 Apr 2022 4:09

Tgt Ion:120 Resp: 160705

Ion Ratio Lower Upper

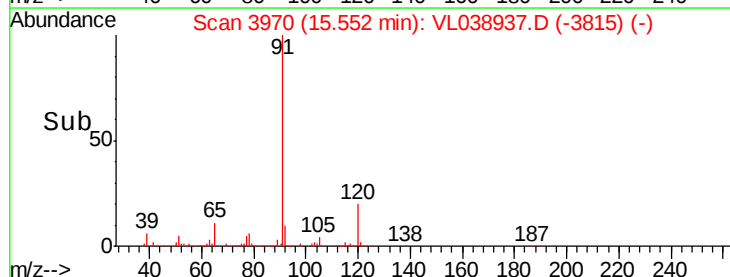
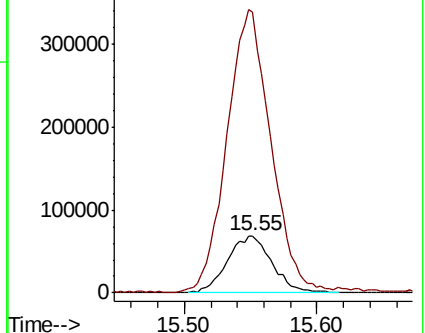
120 100

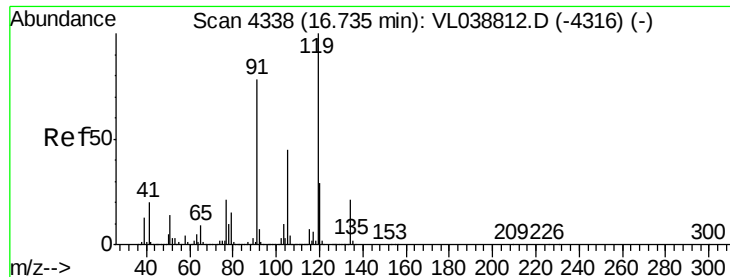
91 492.5 360.6 540.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.655 ppbv

RT: 16.75

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 4:09

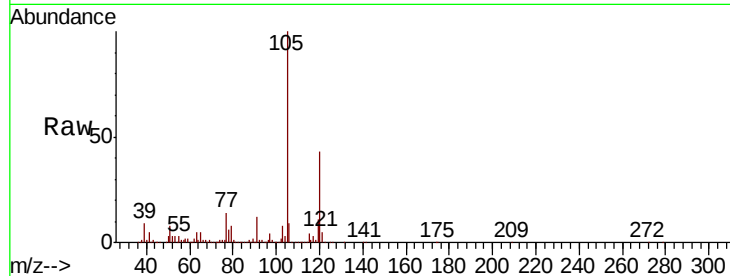
Tot Ion: 119 Resp: 288255

Ion Ratio Lower Upper

119 100

91 108.5 62.8 94.2#

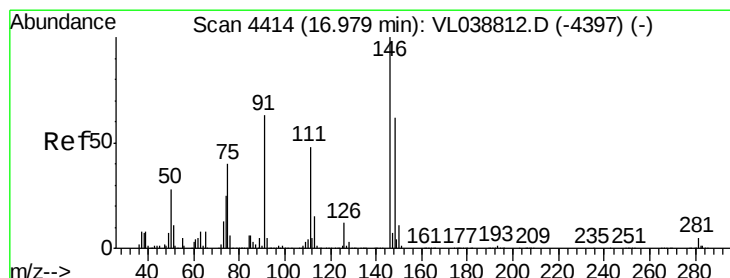
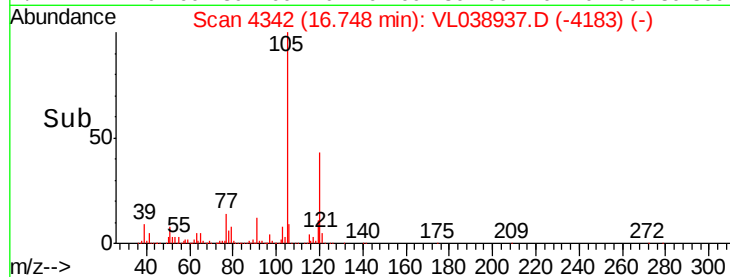
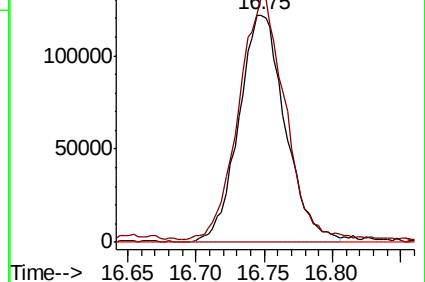
134 0.1 16.2 24.4#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.114 ppbv

RT: 17.18 min Scan# 4478

Delta R.T. 0.21 min

Lab File: VL038937.D

Acq: 15 Apr 2022 4:09

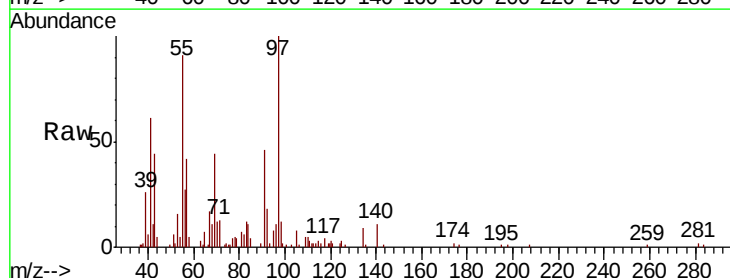
Tgt Ion: 91 Resp: 10234

Ion Ratio Lower Upper

91 100

126 1.2 15.4 23.0#

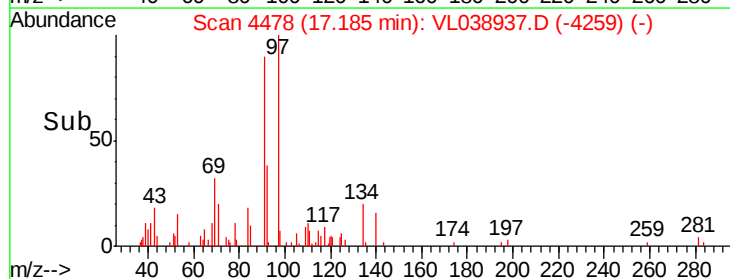
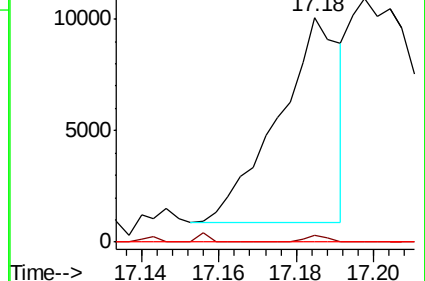
128 0.0 4.7 7.1#

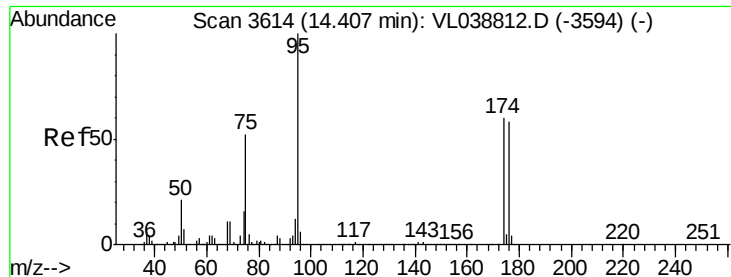


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

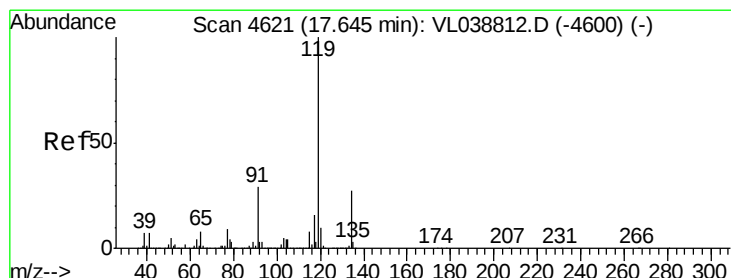
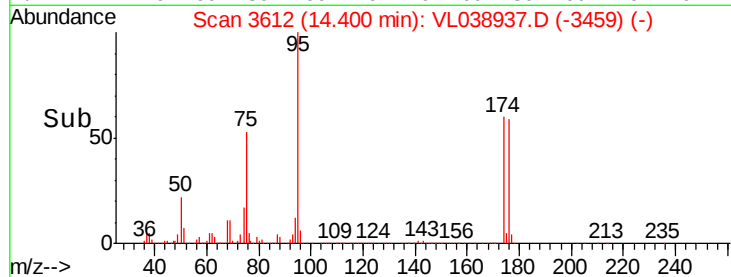
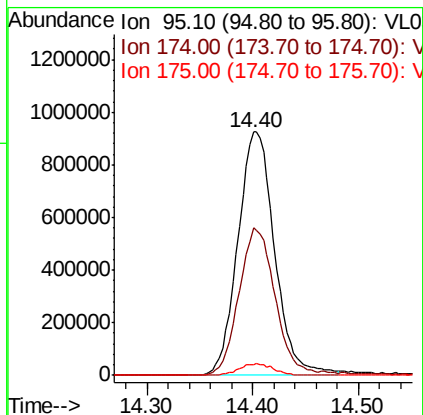
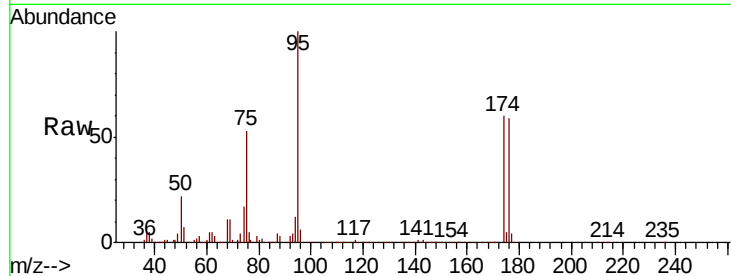
Ion 128.10 (127.80 to 128.80): V





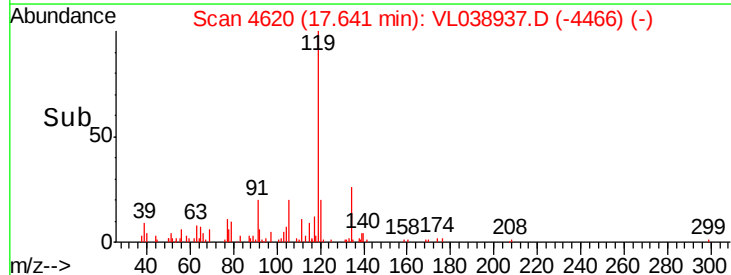
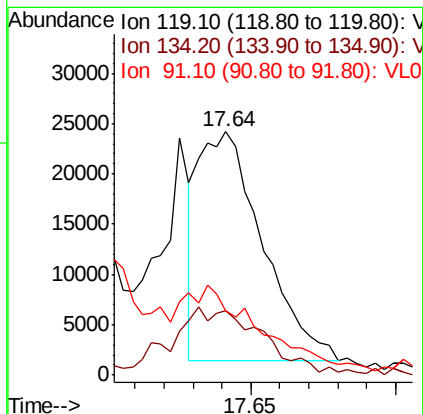
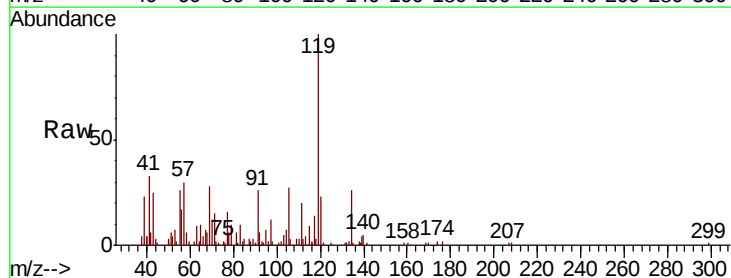
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.503 ppbv
 RT: 14.40 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 4:09

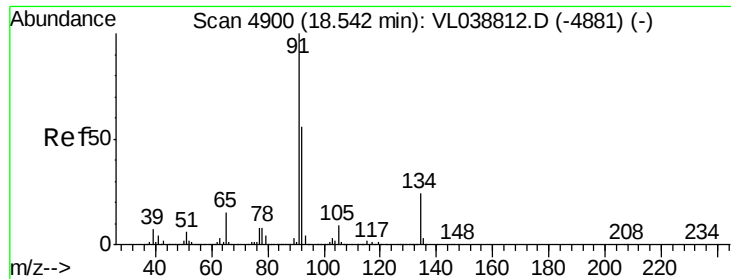
Tot Ion: 95 Resp: 2240971
 Ion Ratio Lower Upper
 95 100
 174 61.1 52.0 78.0
 175 4.6 4.0 6.0



#69
 p-Isopropyltoluene
 Concen: 0.068 ppbv
 RT: 17.64 min Scan# 4620
 Delta R.T. -0.00 min
 Lab File: VL038937.D
 Acq: 15 Apr 2022 4:09

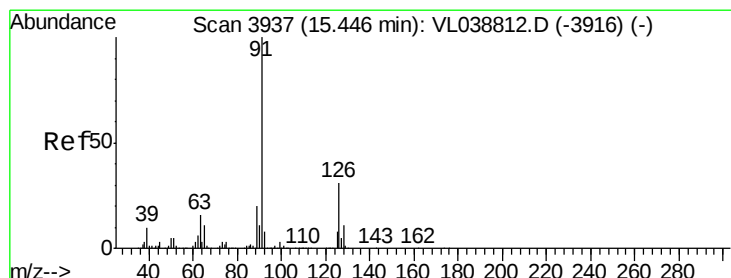
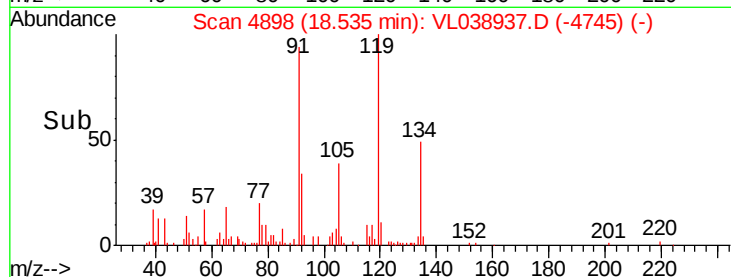
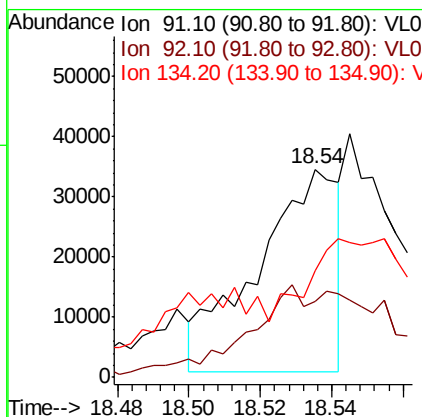
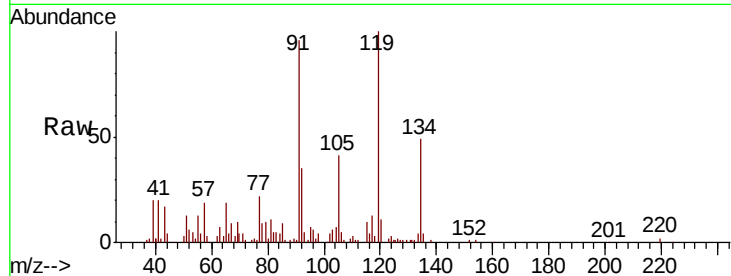
Tgt Ion: 119 Resp: 34638
 Ion Ratio Lower Upper
 119 100
 134 43.6 20.8 31.2#
 91 55.1 22.6 34.0#





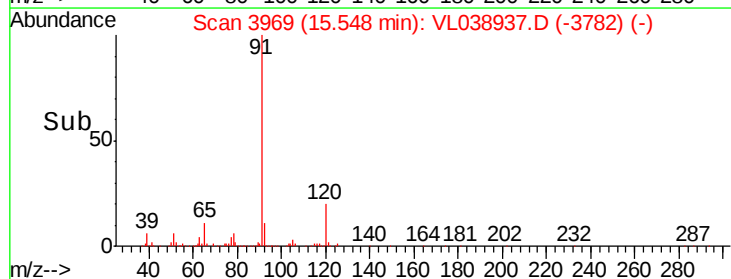
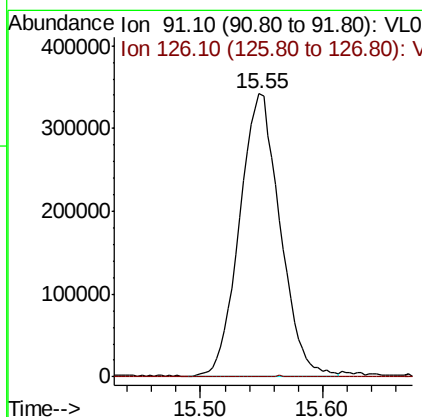
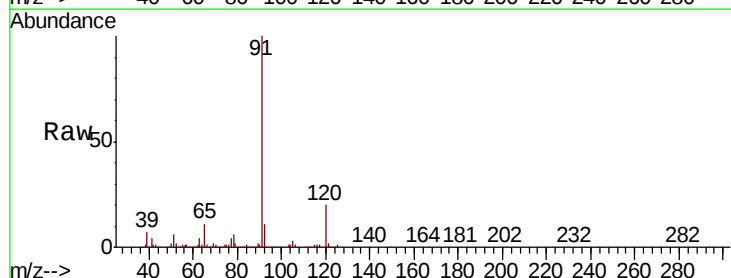
#70
n-Butylbenzene
Concen: 0.104 ppbv
RT: 18.54 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : 1161-8.01-A-2
Acq: 15 Apr 2022 4:09

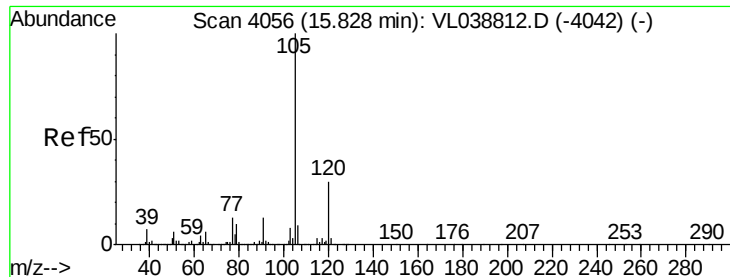
Tot Ion	Ratio	Lower	Upper
91	100		
92	83.5	44.6	66.8#
134	0.0	19.2	28.8#



#71
2-Chlorotoluene
Concen: 2.096 ppbv
RT: 15.55 min Scan# 3969
Delta R.T. 0.10 min
Lab File: VL038937.D
Acq: 15 Apr 2022 4:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	0.1	13.0	51.8#





#72

4-Ethyltoluene

Concen: 2.782 ppbv

RT: 15.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 4:09

Tot Ion:105 Resp: 1097680

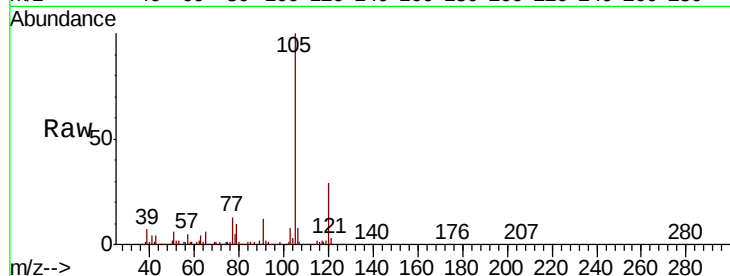
Ion Ratio Lower Upper

105 100

120 29.0 24.3 36.5

91 12.4 9.4 14.2

77 13.5 10.6 15.8

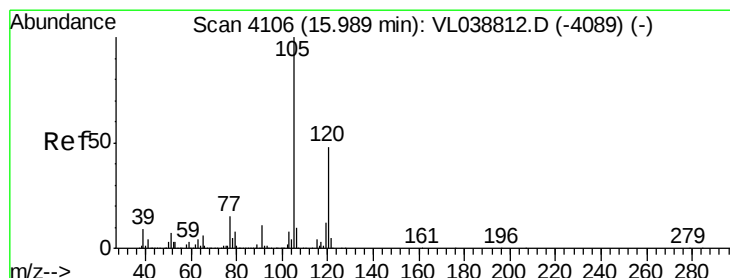
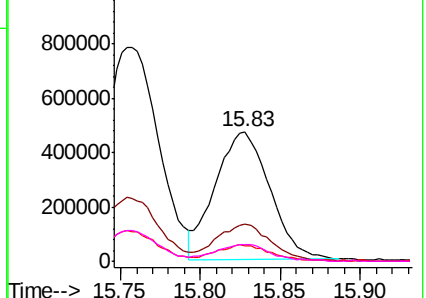
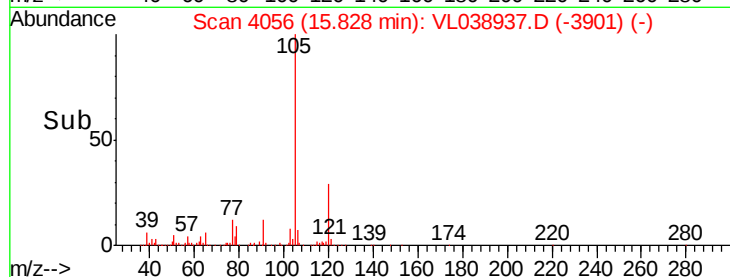


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 1.916 ppbv

RT: 15.98 min Scan# 4104

Delta R.T. -0.01 min

Lab File: VL038937.D

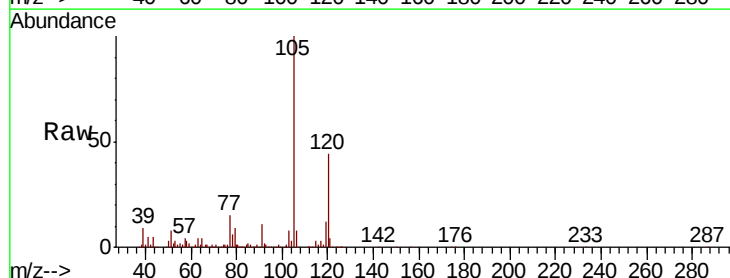
Acq: 15 Apr 2022 4:09

Tgt Ion:105 Resp: 679128

Ion Ratio Lower Upper

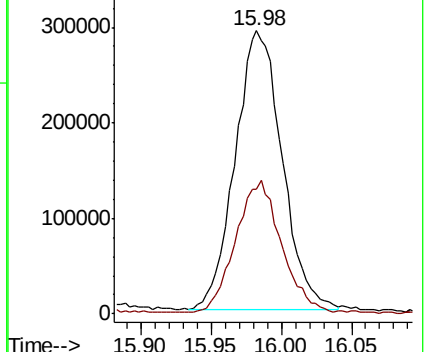
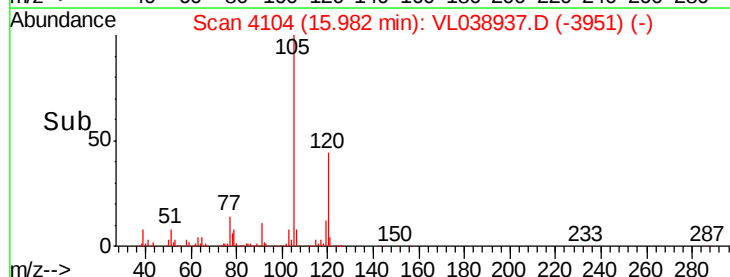
105 100

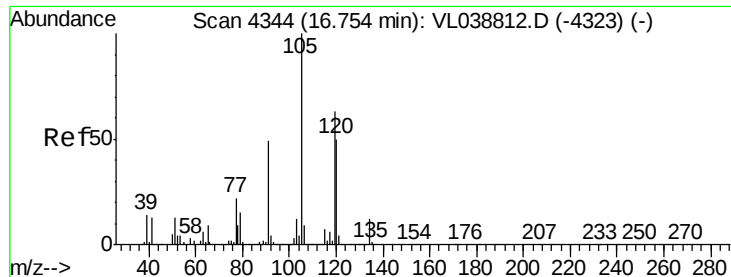
120 44.3 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 7.056 ppbv

RT: 16.75

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 4:09

Tot Ion:105 Resp: 2643957

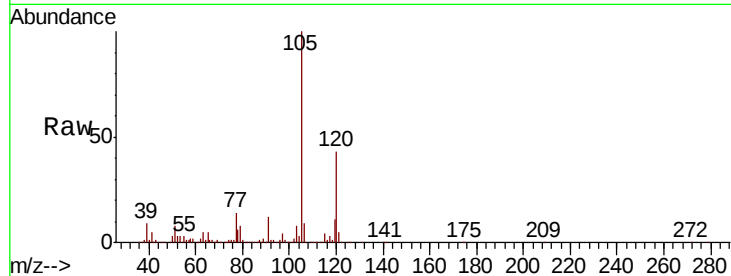
Ion Ratio Lower Upper

105 100

120 43.1 39.8 59.8

91 11.7 39.4 59.0#

77 14.4 17.3 25.9#



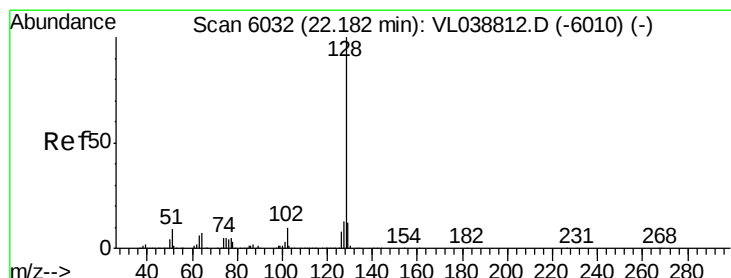
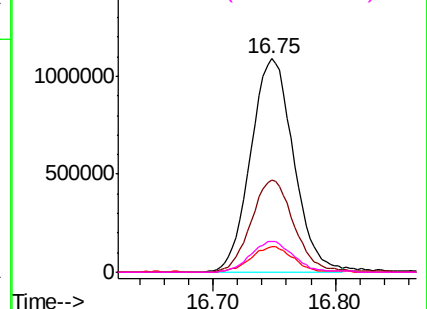
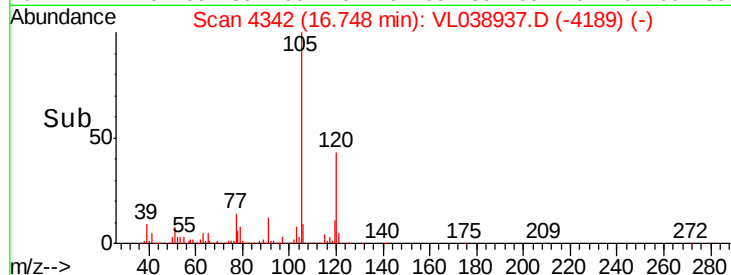
Abundance

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



#79

Naphthalene

Concen: 0.331 ppbv

RT: 22.18 min Scan# 6031

Delta R.T. -0.00 min

Lab File: VL038937.D

Acq: 15 Apr 2022 4:09

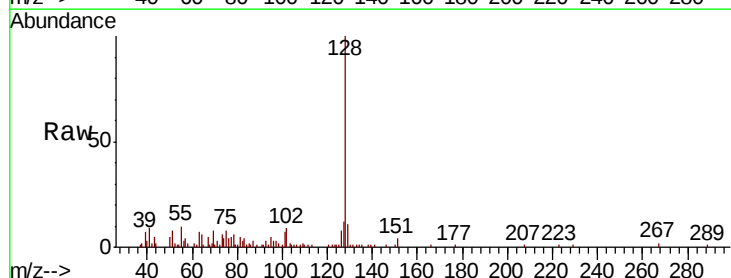
Tgt Ion:128 Resp: 92675

Ion Ratio Lower Upper

128 100

127 11.3 10.6 15.8

129 10.0 9.4 14.0

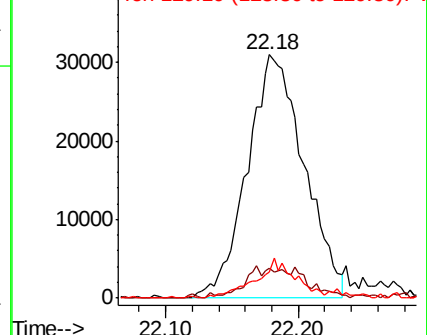
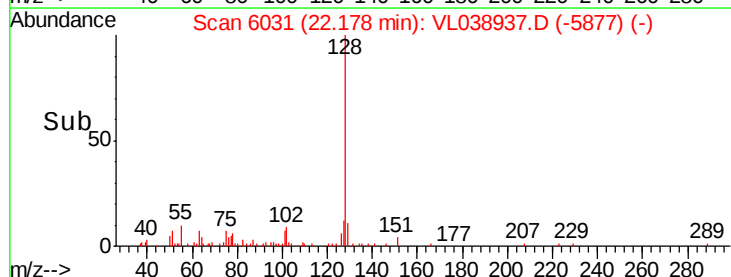


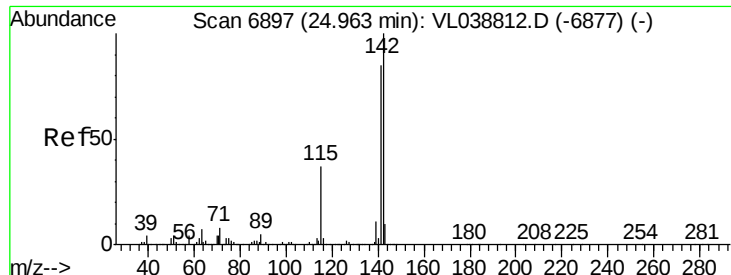
Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

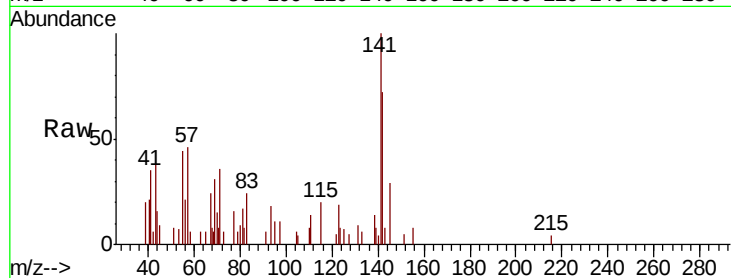
Ion 129.10 (128.80 to 129.80): V





#80
 Naphthalene, 2-methyl-
 Concen: 0.100 ppbv
 RT: 24.96
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 4:09

Tot Ion	Ratio	Lower	Upper
142	100		
141	76.5	68.8	103.2
115	49.7	31.6	47.4



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

