

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038935.D
 Acq On : 15 Apr 2022 2:49
 Operator : SY/AP
 Sample : N2259-09
 Misc : 400mL/MSVOA L
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1165-19-IA-4

Quant Time: Apr 15 08:10:29 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	5.67	49	1184311	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3086266	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2737931	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2128836	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	42664	0.254	ppbv 99
3) Chlorodifluoromethane	2.96	51	3899686	26.981	ppbv # 62
4) Chloromethane	3.14	50	38726	0.517	ppbv # 84
9) Propene	3.20	41	144267	1.887	ppbv 93
10) Heptane	8.11	43	2822197	14.652	ppbv 98
11) Trichlorofluoromethane	3.95	101	171725	1.272	ppbv 96
13) Ethanol	3.60	45	717646	154.425	ppbv # 100
15) Acetone	3.84	43	24461730	207.463	ppbv # 73
16) 1,3-Butadiene	3.31	39	28420	0.422	ppbv 82
17) tert-Butyl alcohol	4.30	59	9713	0.092	ppbv # 72
19) Isopropyl Alcohol	3.96	45	384376	6.378	ppbv # 100
20) Methylene Chloride	4.34	84	197233	4.612	ppbv 93
23) Vinyl Acetate	5.07	43	9111	0.079	ppbv # 1
25) Ethyl Acetate	5.67	43	551101	1.842	ppbv 98
26) Hexane	5.68	57	198904	1.461	ppbv # 73
30) Cyclohexane	7.13	84	52238	0.435	ppbv # 1
31) cis-1,2-Dichloroethene	5.67	61	51027	0.408	ppbv # 25
34) 2-Butanone	5.24	43	258063	2.116	ppbv 94
36) Benzene	6.89	78	433128	1.543	ppbv 98
39) 1,2-Dichloropropane	7.17	63	761160	7.088	ppbv # 27
41) Tetrahydrofuran	6.05	42	14682	0.127	ppbv # 49
42) Bromodichloromethane	7.78	83	42692	0.211	ppbv # 25
44) 2,2,4-Trimethylpentane	7.86	57	237253	0.499	ppbv # 1
50) 4-Methyl-2-Pentanone	8.74	43	934727	3.408	ppbv 98
51) 2-Hexanone	10.10	43	68010	0.329	ppbv # 38
52) Tetrachloroethene	11.22	164	36116	0.368	ppbv 89
53) Toluene	9.80	91	16590007	51.186	ppbv 89
58) Ethyl Benzene	12.70	91	1080383	2.641	ppbv 92
59) m/p-Xylene	12.96	91	2767810	8.053	ppbv 99
60) o-Xylene	13.68	91	1095725	3.407	ppbv 97
61) Styrene	13.51	104	33894	0.173	ppbv # 58
62) Isopropylbenzene	14.65	105	151729	0.314	ppbv 97
64) n-propylbenzene	15.55	120	124493	0.993	ppbv 79
65) tert-Butylbenzene	16.74	119	95402	0.223	ppbv # 20
66) Benzyl Chloride	16.75	91	99142	1.137	ppbv # 65
67) sec-Butylbenzene	17.28	105	150070	0.250	ppbv 95
69) p-Isopropyltoluene	17.64	119	75645	0.153	ppbv 97
70) n-Butylbenzene	18.54	91	150783	0.303	ppbv # 60
71) 2-Chlorotoluene	15.55	91	619013	1.705	ppbv # 43
72) 4-Ethyltoluene	15.82	105	621873	1.619	ppbv 98
73) 1,3,5-Trimethylbenzene	15.99	105	559476	1.622	ppbv 97

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1165-19-IA-4

Quant Time: Apr 15 08:10:29 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)
74) 1,2,4-Trimethylbenzene	16.75	105	1927332	5.284	ppbv #	69
79) Naphthalene	22.18	128	162731	0.596	ppbv #	94
80) Naphthalene,2-methyl-	25.28	142	41077	0.611	ppbv	98

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

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Misc : 400mL/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :
1165-19-IA-4

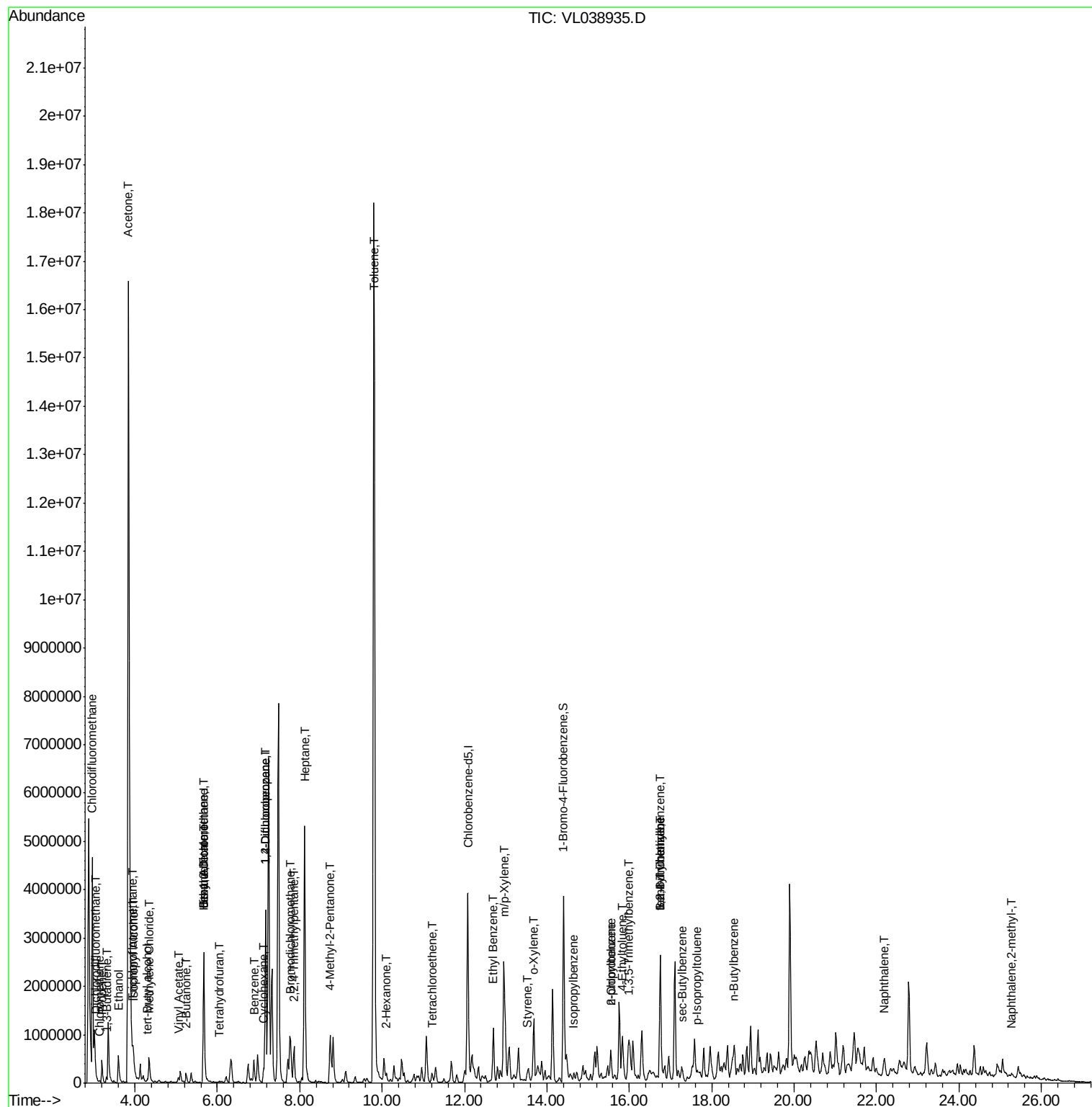
Quant Time: Apr 15 08:10:29 2022

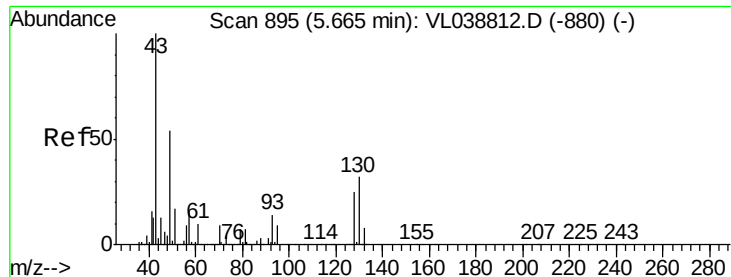
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M

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

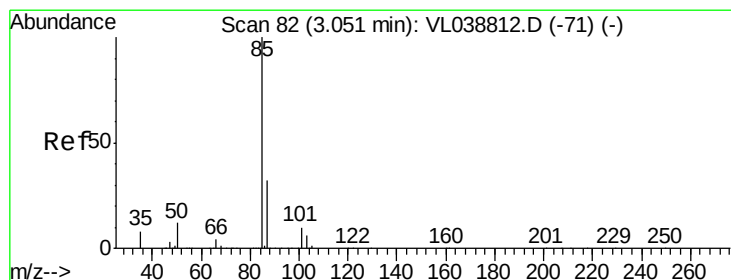
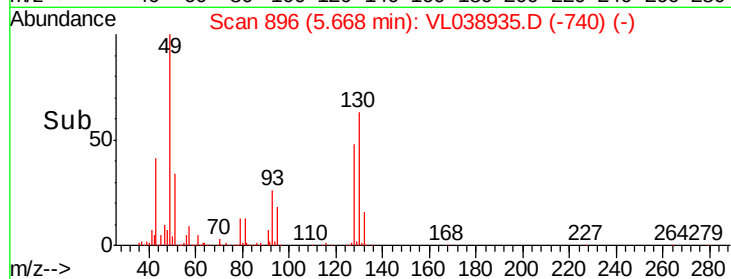
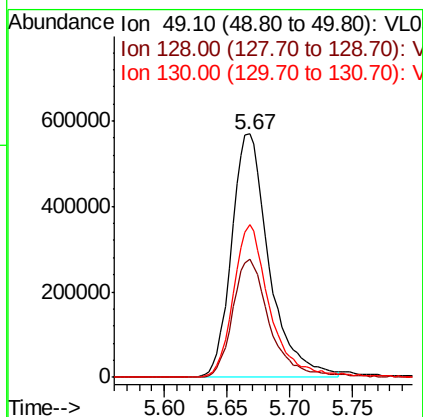
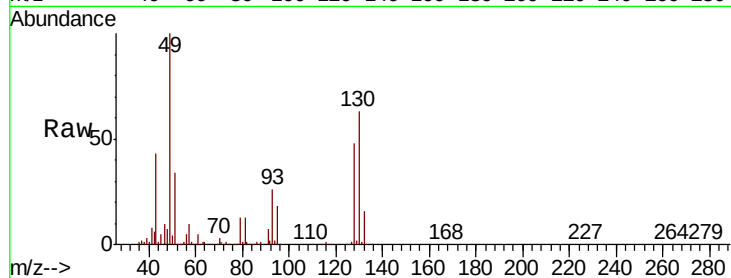
Response via : Initial Calibration





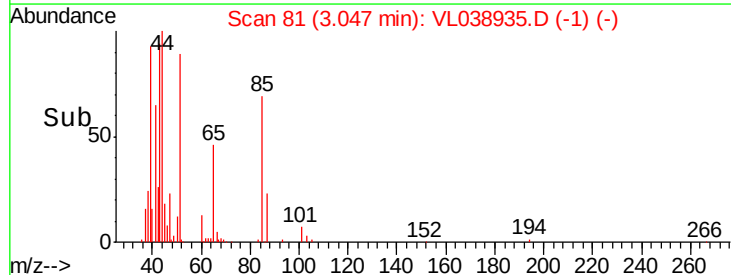
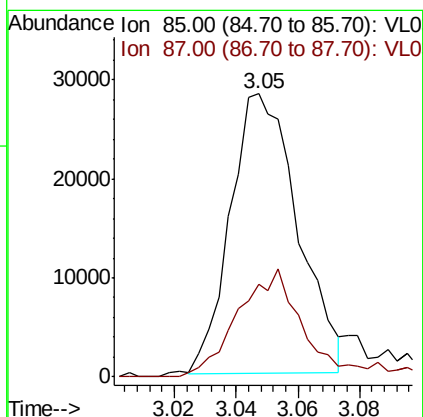
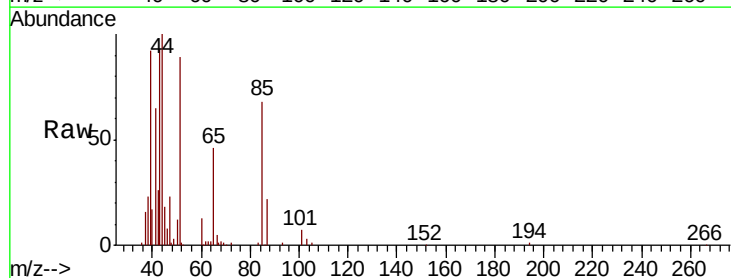
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 1165-19-1A-4
 Acq: 15 Apr 2022 2:49

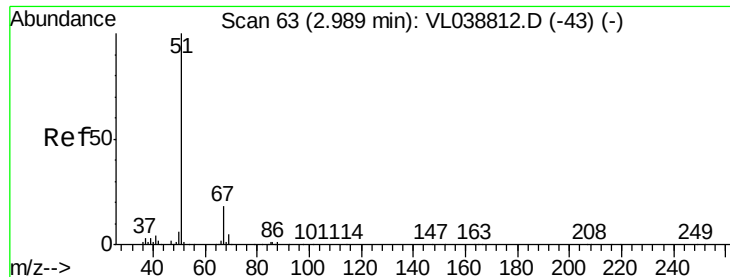
Tot Ion: 49 Resp: 1184311
 Ion Ratio Lower Upper
 49 100
 128 48.7 24.1 72.3
 130 61.8 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.254 ppbv
 RT: 3.05 min Scan# 81
 Delta R.T. -0.00 min
 Lab File: VL038935.D
 Acq: 15 Apr 2022 2:49

Tgt Ion: 85 Resp: 42664
 Ion Ratio Lower Upper
 85 100
 87 31.7 25.9 38.9





#3

Chlorodifluoromethane

Concen: 26.981 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

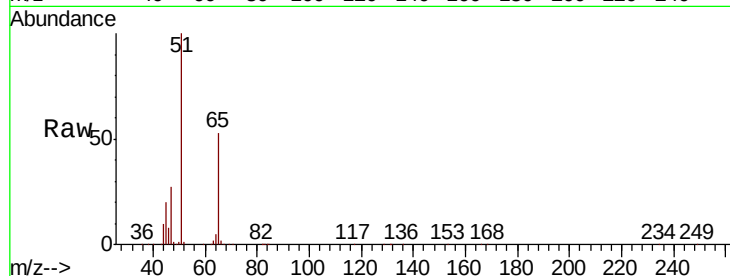
Acq: 15 Apr 2022 2:49

Tot Ion: 51 Resp: 3899686

Ion Ratio Lower Upper

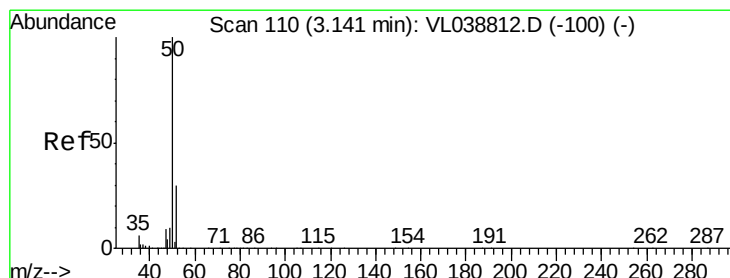
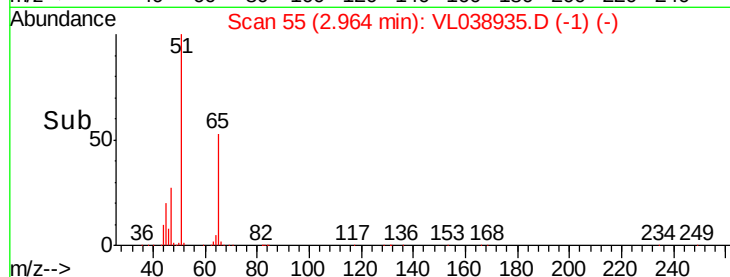
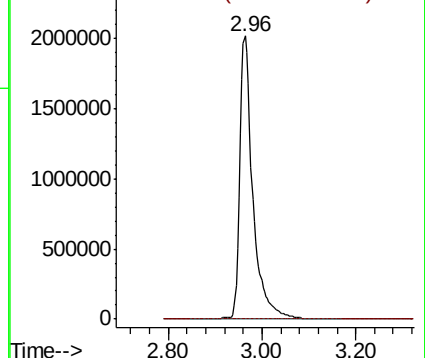
51 100

67 0.2 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.517 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038935.D

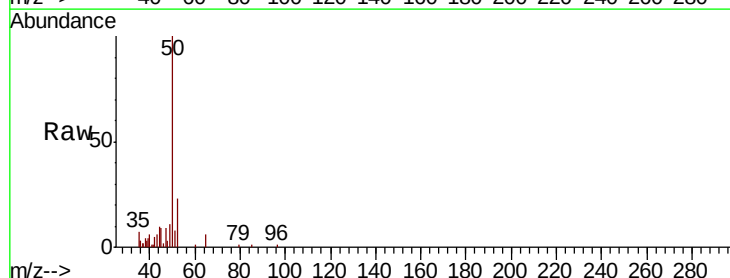
Acq: 15 Apr 2022 2:49

Tgt Ion: 50 Resp: 38726

Ion Ratio Lower Upper

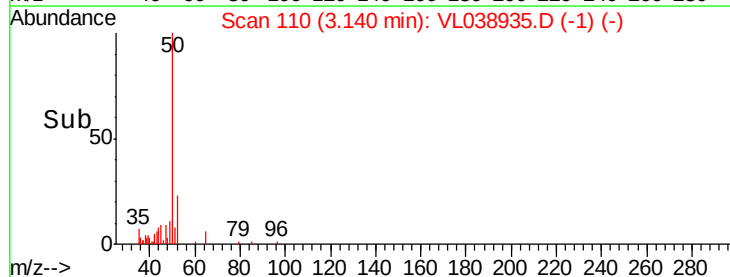
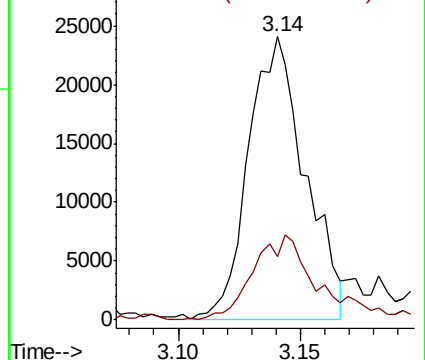
50 100

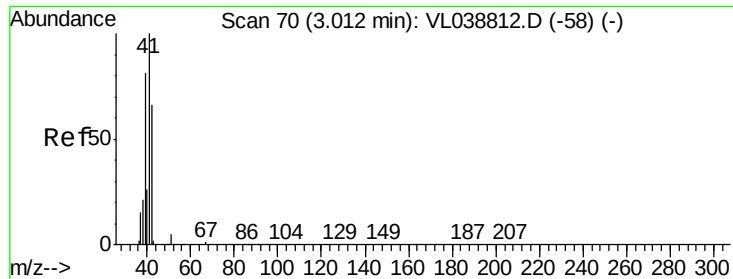
52 21.7 24.3 36.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

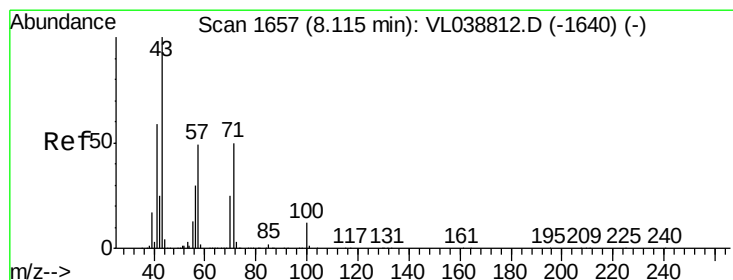
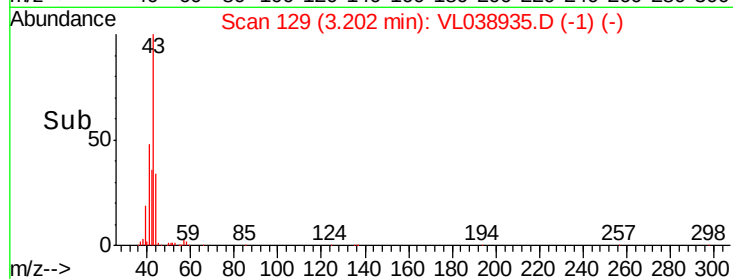
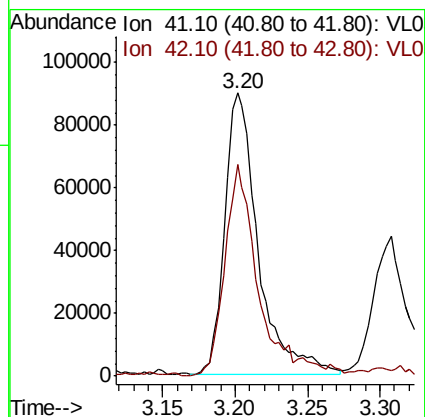
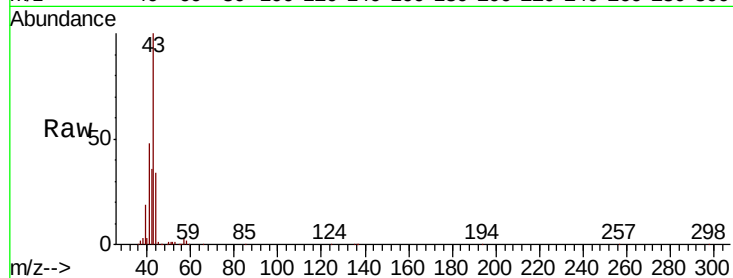
Ion 52.10 (51.80 to 52.80): VL0





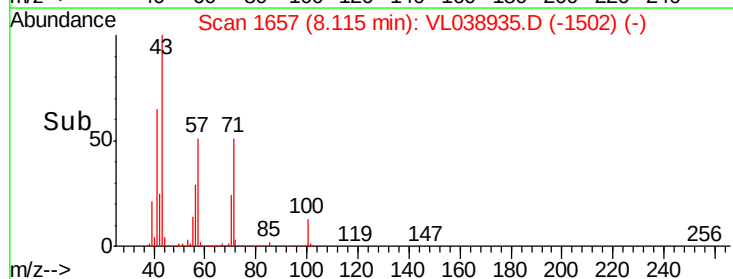
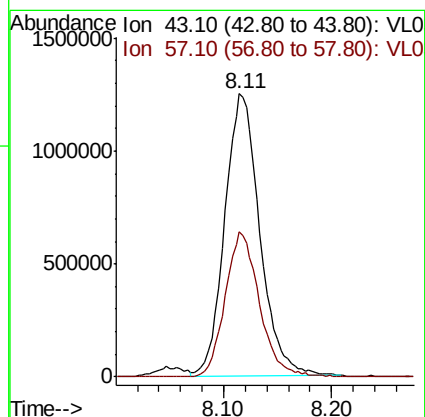
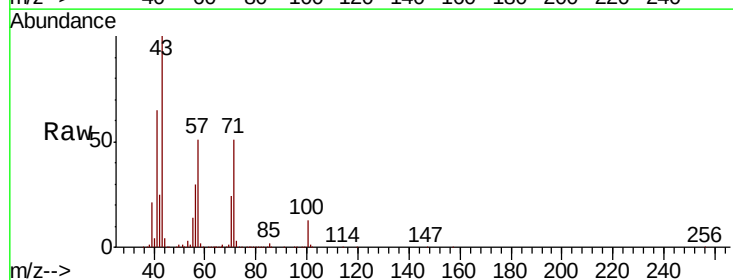
#9
 Propene
 Concen: 1.887 ppbv
 RT: 3.20
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 1165-19-1A-4
 Acq: 15 Apr 2022 2:49

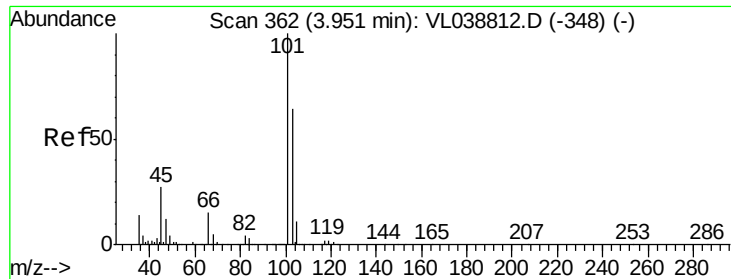
Tot Ion: 41 Resp: 144267
 Ion Ratio Lower Upper
 41 100
 42 73.5 54.2 81.4



#10
 Heptane
 Concen: 14.652 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. -0.00 min
 Lab File: VL038935.D
 Acq: 15 Apr 2022 2:49

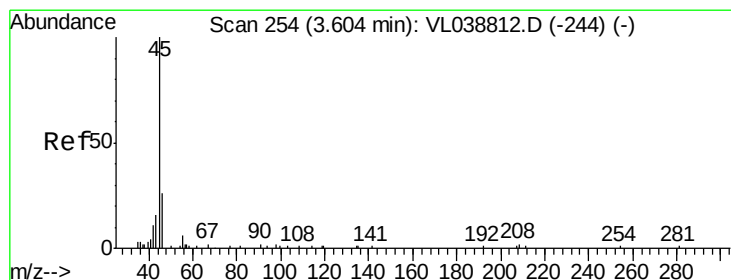
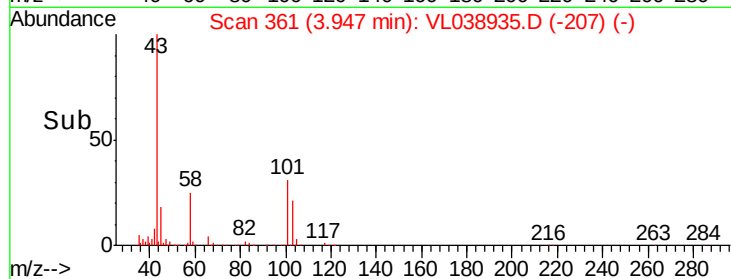
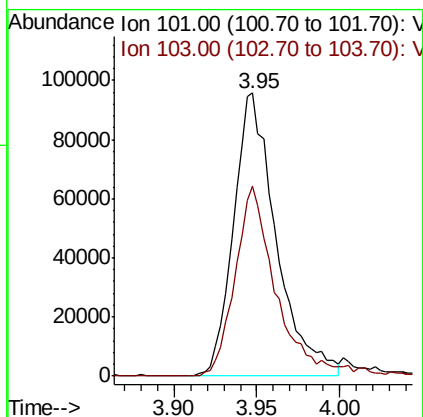
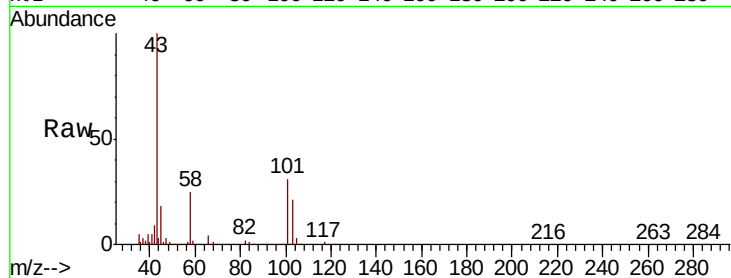
Tgt Ion: 43 Resp: 2822197
 Ion Ratio Lower Upper
 43 100
 57 50.7 39.3 58.9





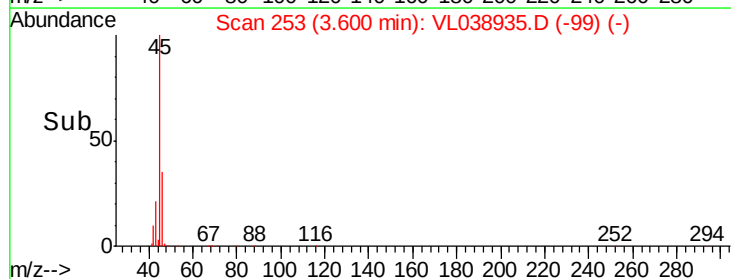
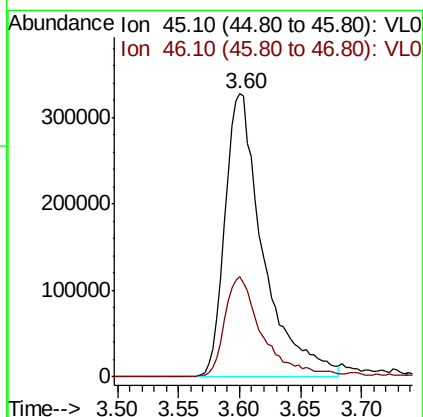
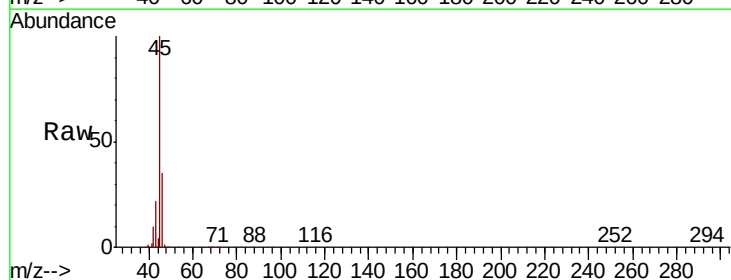
#11
 Trichlorofluoromethane
 Concen: 1.272 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : 1165-19-1A-4
 Acq: 15 Apr 2022 2:49

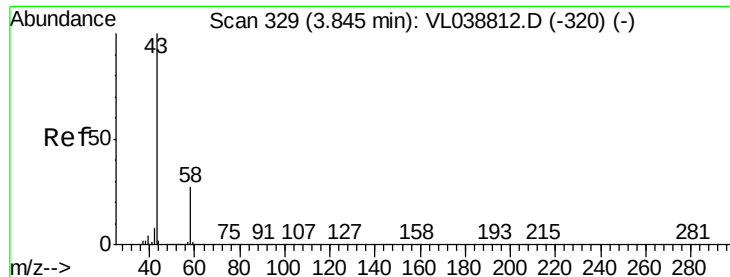
Tot Ion:101 Resp: 171725
 Ion Ratio Lower Upper
 101 100
 103 67.3 51.4 77.0



#13
 Ethanol
 Concen: 154.425 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL038935.D
 Acq: 15 Apr 2022 2:49

Tgt Ion: 45 Resp: 717646
 Ion Ratio Lower Upper
 45 100
 46 36.5 0.0 0.0#





#15

Acetone

Concen: 207.463 ppbv

RT: 3.84 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1165-19-1A-4

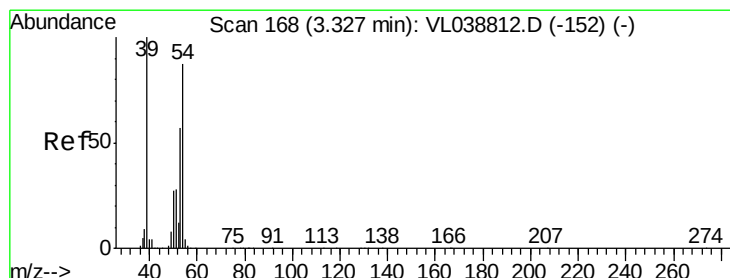
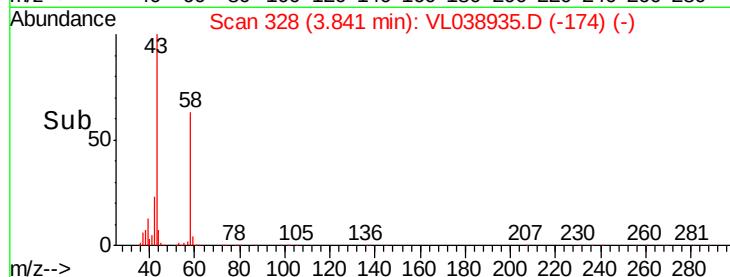
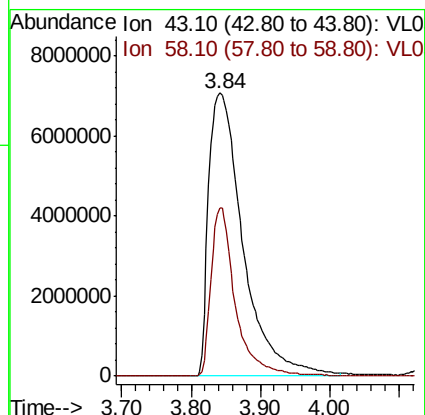
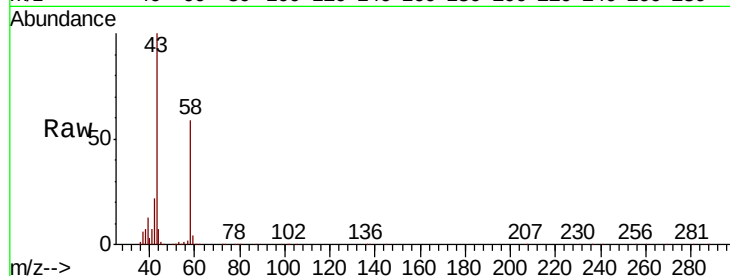
Acq: 15 Apr 2022 2:49

Tot Ion: 43 Resp: 24461730

Ion Ratio Lower Upper

43 100

58 42.3 22.5 33.7#



#16

1,3-Butadiene

Concen: 0.422 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL038935.D

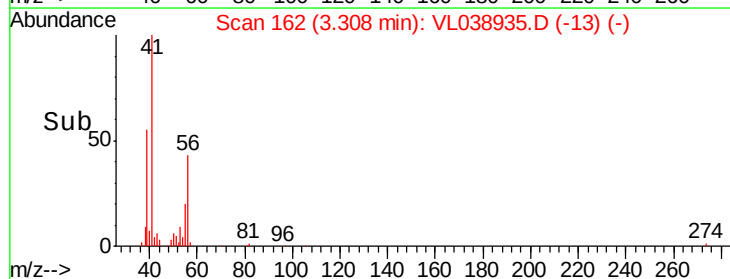
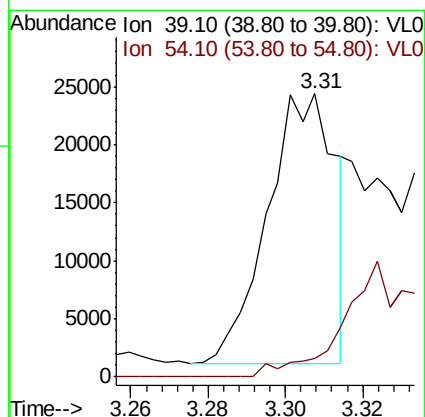
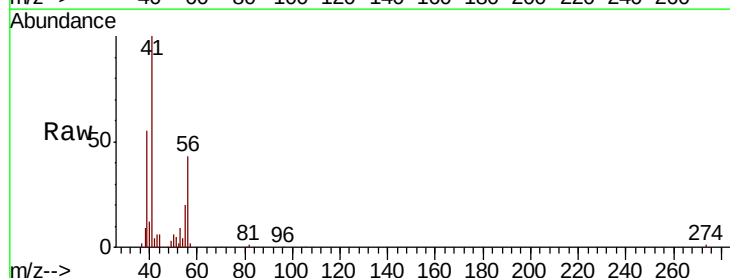
Acq: 15 Apr 2022 2:49

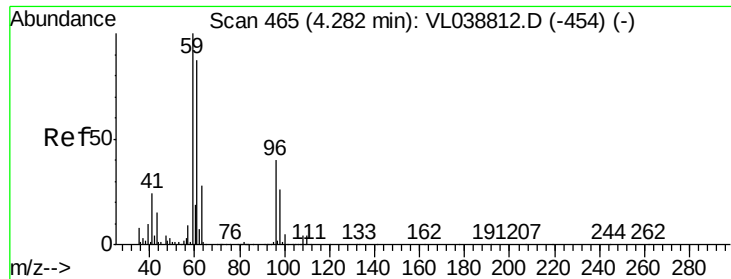
Tgt Ion: 39 Resp: 28420

Ion Ratio Lower Upper

39 100

54 65.2 64.8 97.2





#17

tert-Butyl alcohol

Concen: 0.092 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

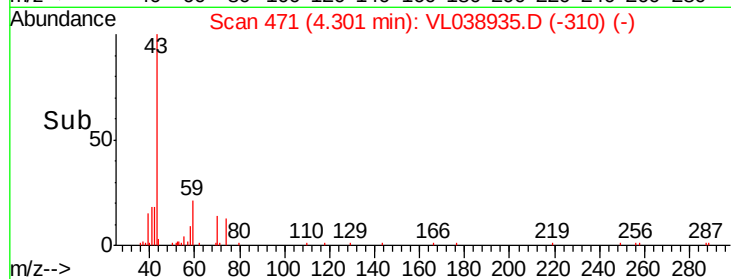
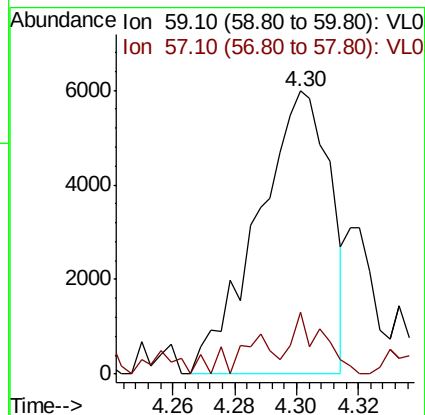
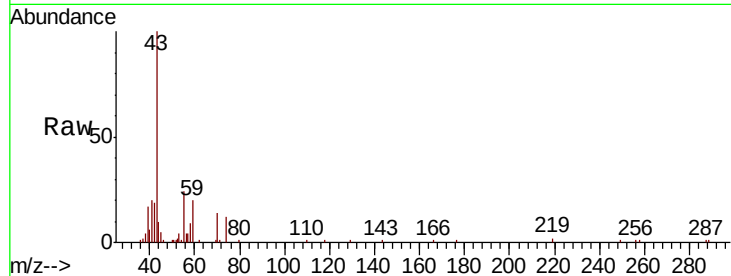
Acq: 15 Apr 2022 2:49

Tot Ion: 59 Resp: 9713

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 6.378 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL038935.D

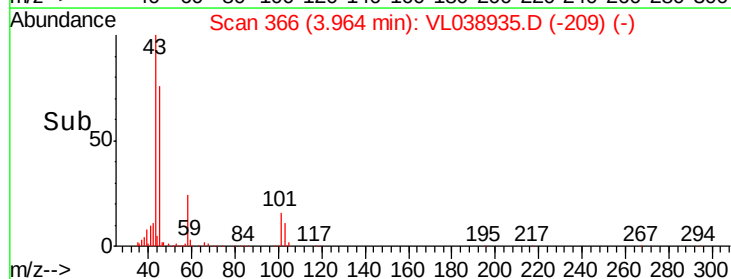
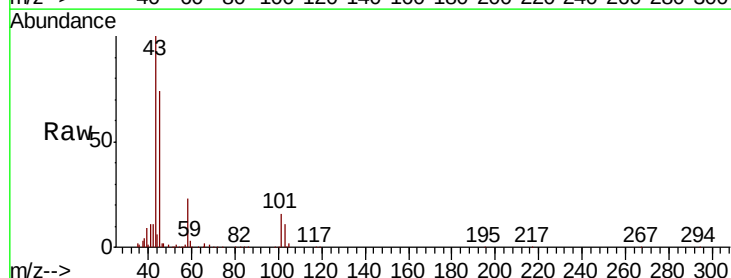
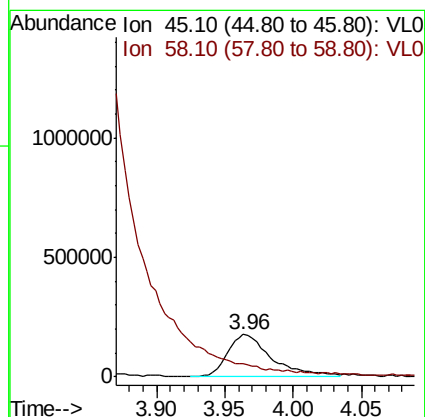
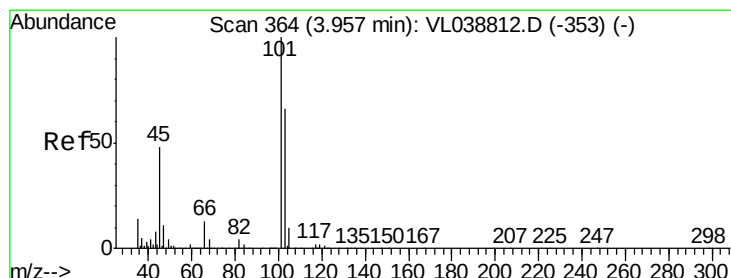
Acq: 15 Apr 2022 2:49

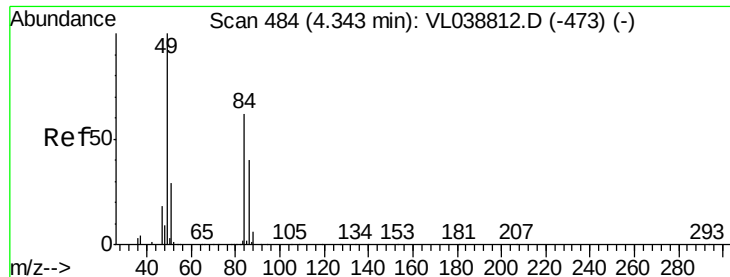
Tgt Ion: 45 Resp: 384376

Ion Ratio Lower Upper

45 100

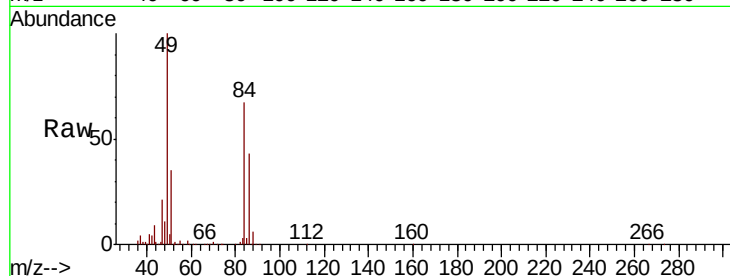
58 0.0 0.0 0.0



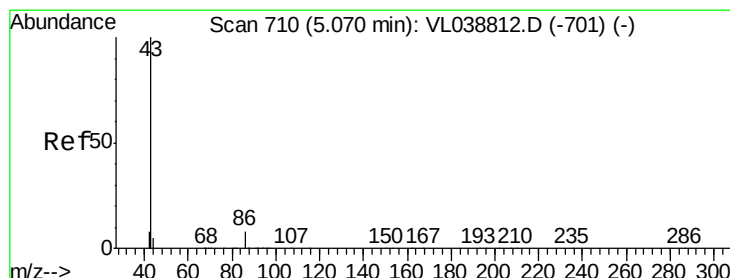
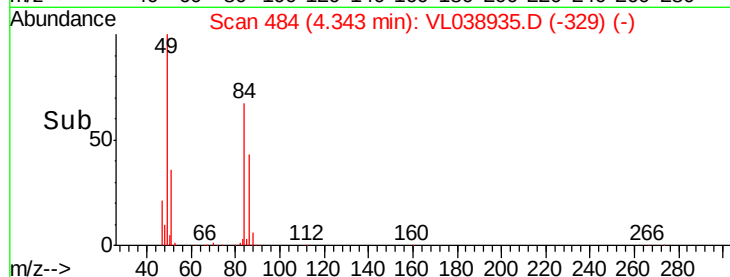
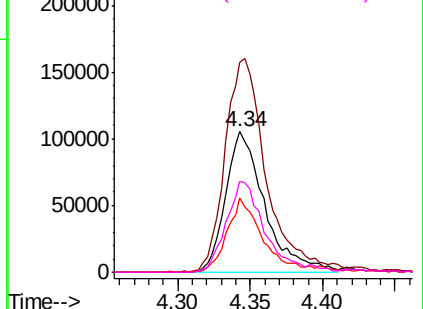


#20
Methylene Chloride
Concen: 4.612 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 2:49

Tot Ion:	84	Resp:	197233
Ion	Ratio	Lower	Upper
84	100		
49	149.4	129.4	194.0
51	52.9	37.4	56.2
86	64.8	51.4	77.2

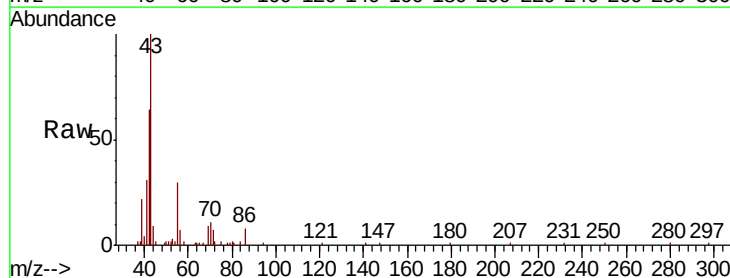


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

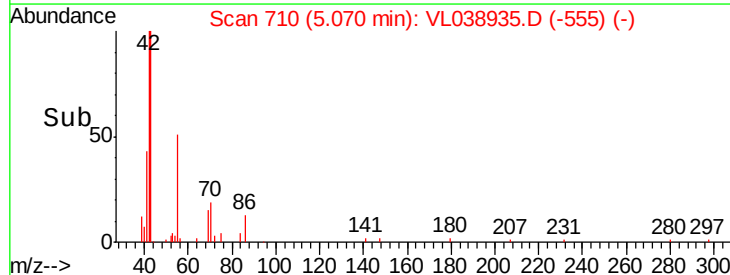
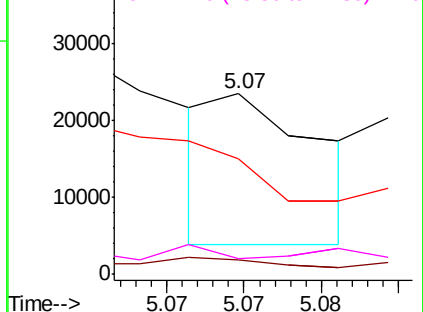


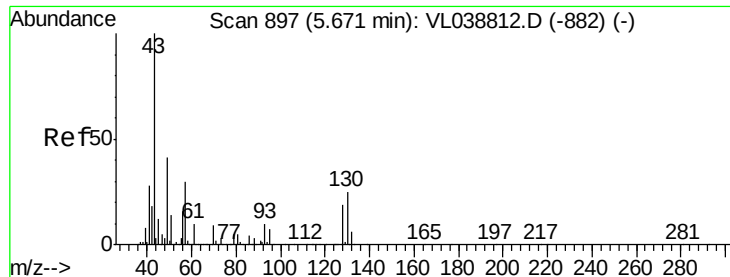
#23
Vinyl Acetate
Concen: 0.079 ppbv
RT: 5.07 min Scan# 710
Delta R.T. -0.00 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

Tgt Ion:	43	Resp:	9111
Ion	Ratio	Lower	Upper
43	100		
86	15.2	5.8	8.6#
42	90.8	7.8	11.6#
44	0.0	3.6	5.4#



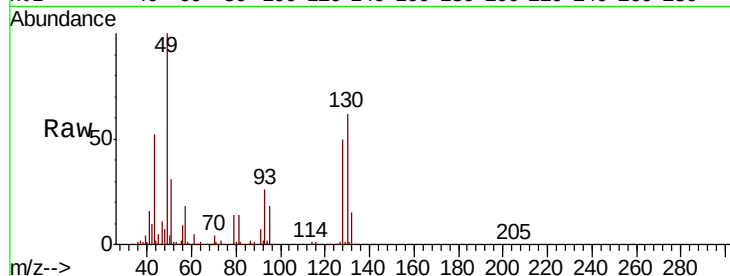
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



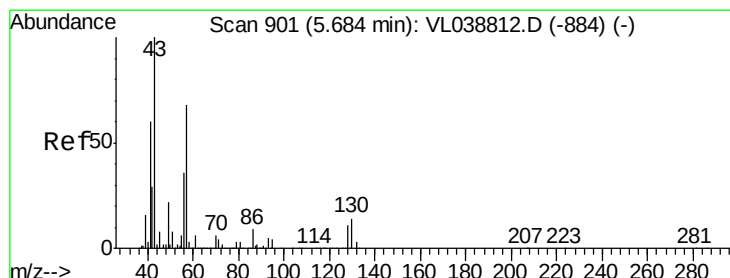
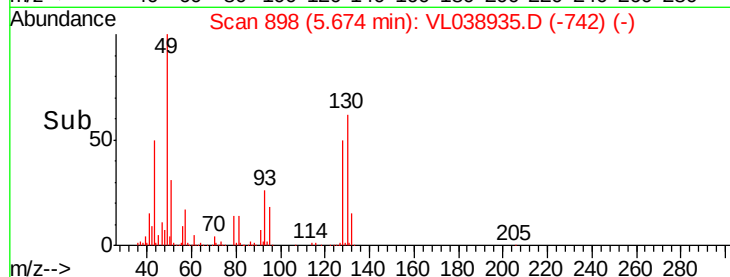
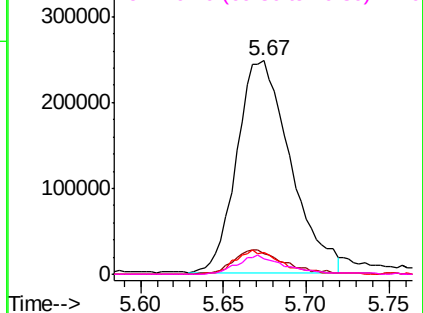


#25
Ethyl Acetate
Concen: 1.842 ppbv
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : 1165-19-1A-4
Acq: 15 Apr 2022 2:49

Tot Ion:	43	Resp:	551101
Ion	Ratio	Lower	Upper
43	100		
45	11.5	8.4	12.6
61	10.1	7.9	11.9
70	8.3	5.6	8.4

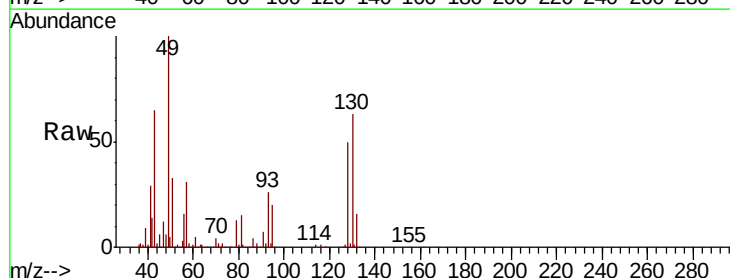


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

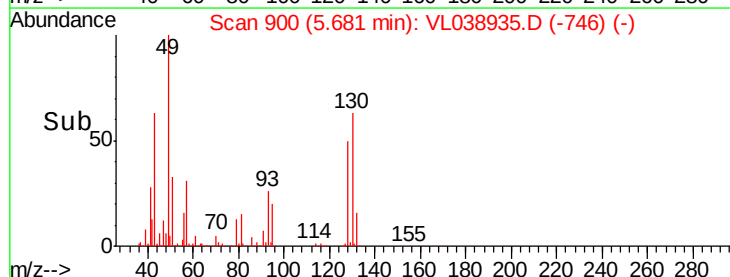
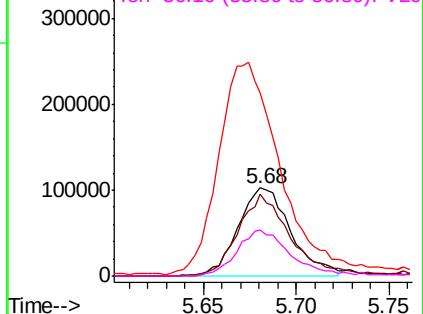


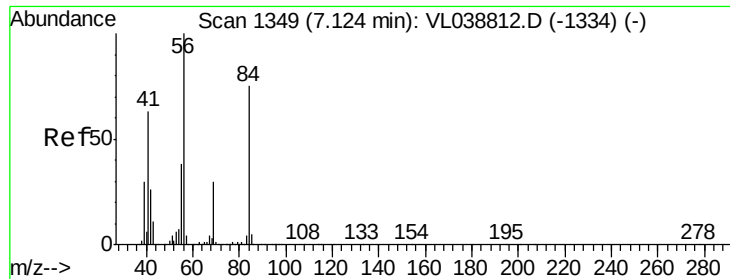
#26
Hexane
Concen: 1.461 ppbv
RT: 5.68 min Scan# 900
Delta R.T.: -0.00 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

Tgt Ion:	57	Resp:	198904
Ion	Ratio	Lower	Upper
57	100		
41	94.1	72.0	108.0
43	302.0	186.6	280.0#
56	56.6	42.8	64.2



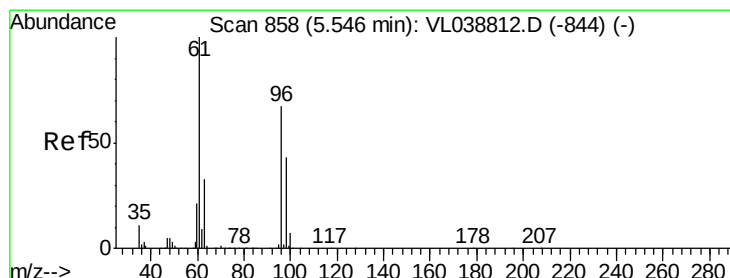
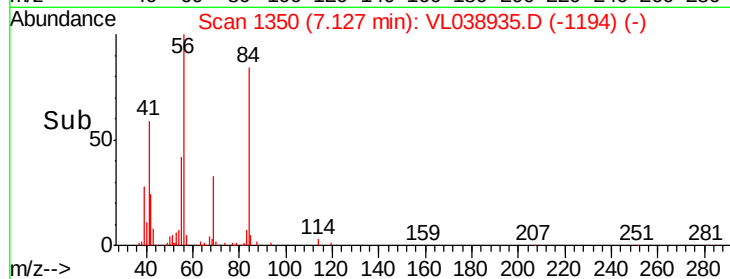
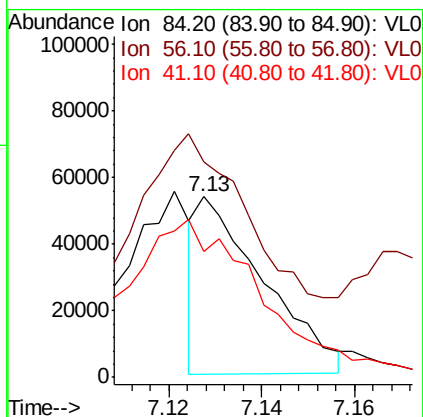
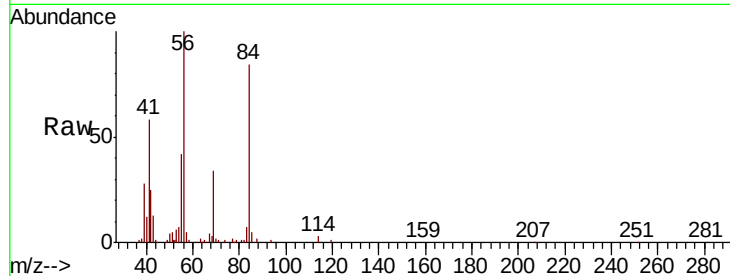
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





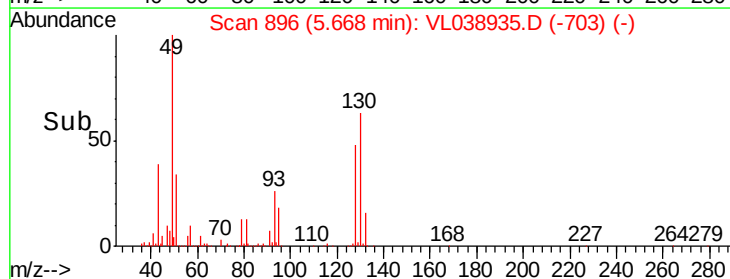
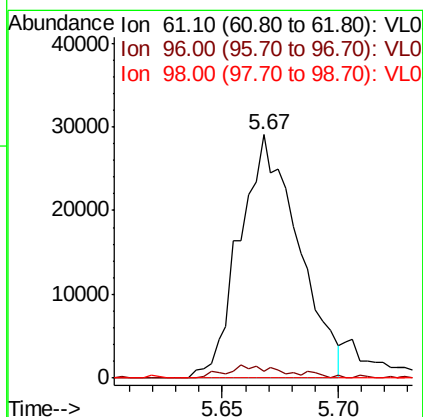
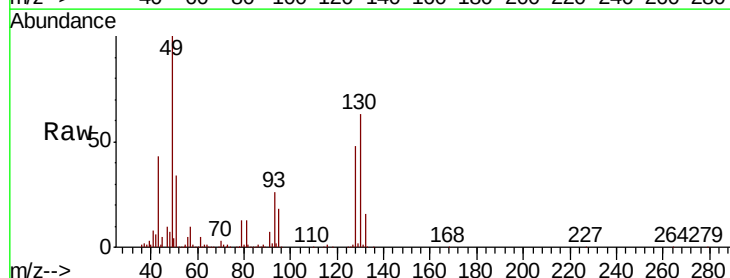
#30
Cvclohexane
Concen: 0.435 ppbv
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 2:49

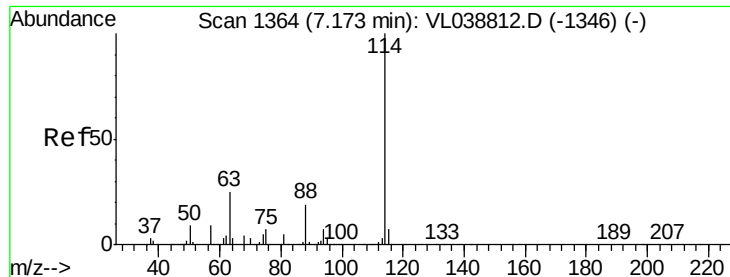
Tot Ion: 84 Resp: 52238
Ion Ratio Lower Upper
84 100
56 280.3 114.4 171.6#
41 174.9 69.0 103.4#



#31
cis-1,2-Dichloroethene
Concen: 0.408 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.12 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

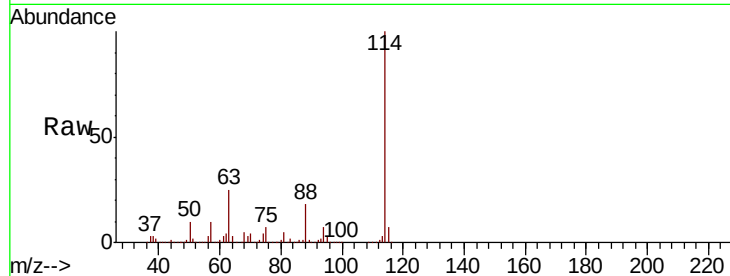
Tgt Ion: 61 Resp: 51027
Ion Ratio Lower Upper
61 100
96 2.9 53.4 80.0#
98 0.0 34.2 51.4#



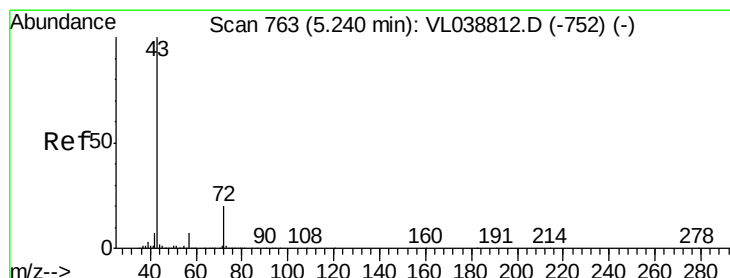
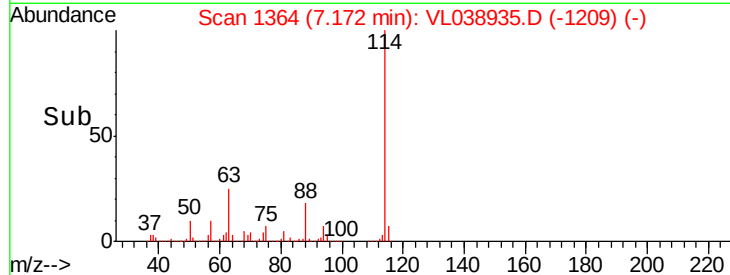
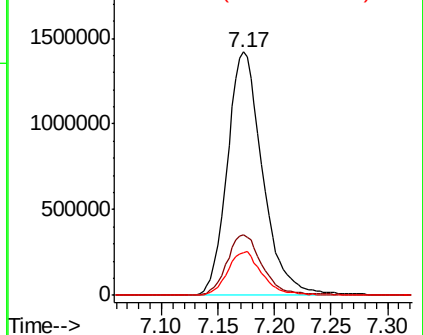


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 2:49

Tot Ion:114 Resp: 3086266
 Ion Ratio Lower Upper
 114 100
 63 25.4 19.8 29.8
 88 17.8 14.2 21.4

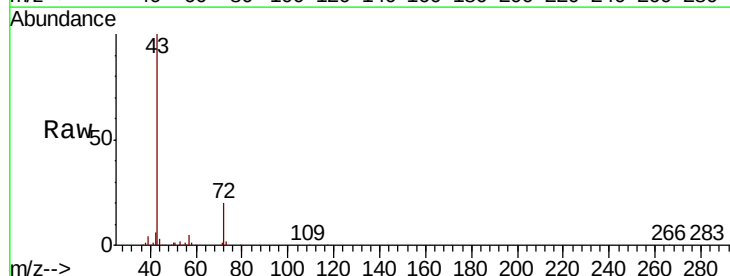


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

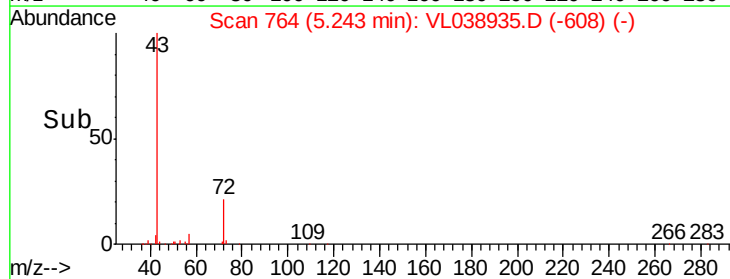
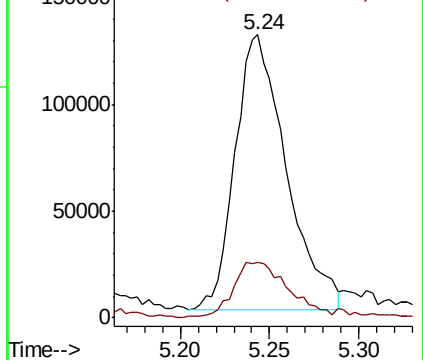


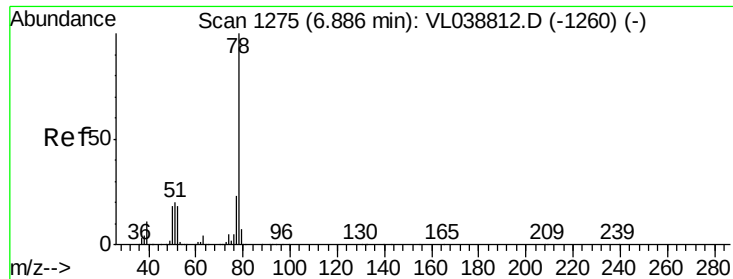
#34
 2-Butanone
 Concen: 2.116 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: VL038935.D
 Acq: 15 Apr 2022 2:49

Tgt Ion: 43 Resp: 258063
 Ion Ratio Lower Upper
 43 100
 72 23.8 16.9 25.3



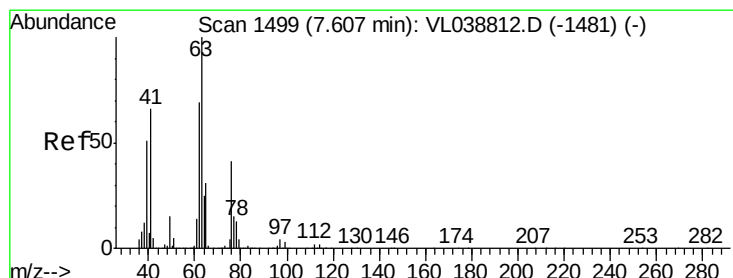
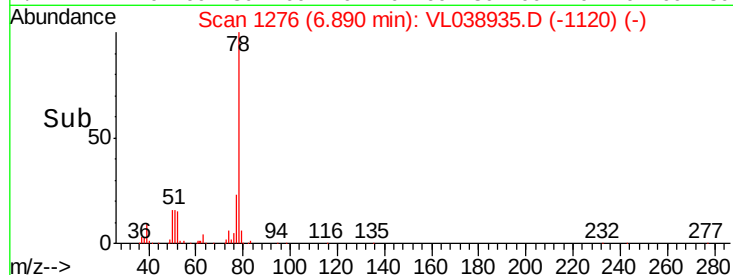
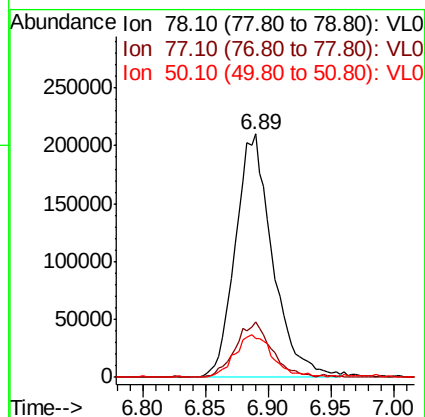
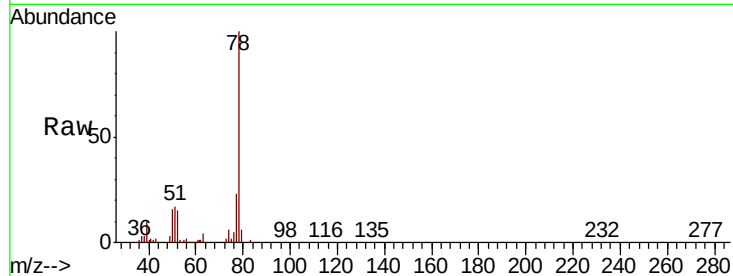
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





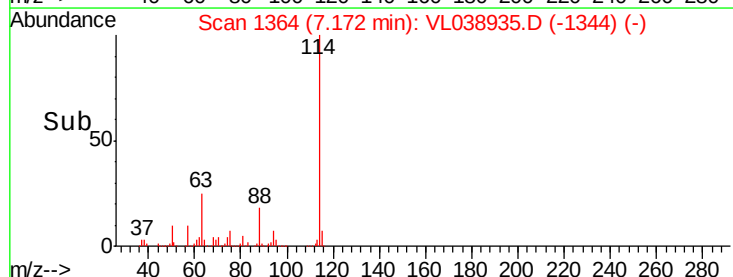
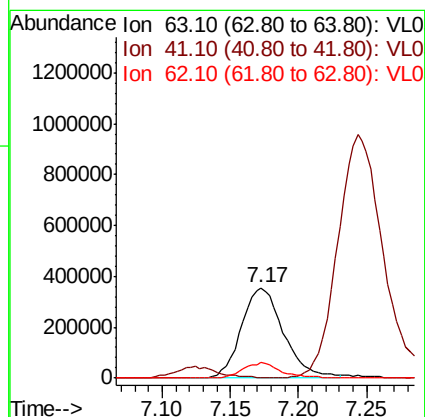
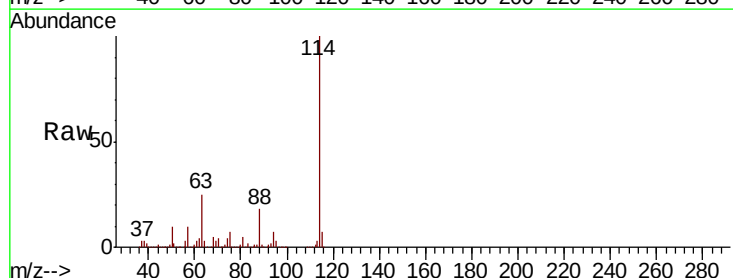
#36
Benzene
Concen: 1.543 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 2:49

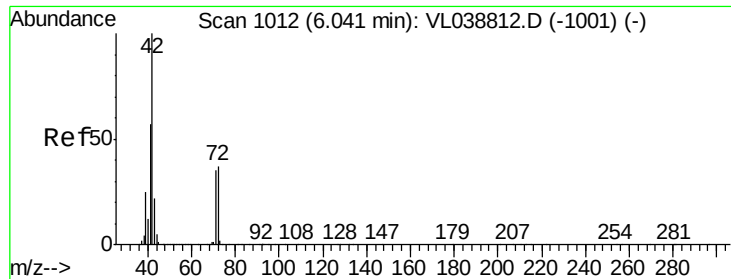
Tot Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.2	27.2
50	15.4	14.0	21.0



#39
1,2-Dichloropropane
Concen: 7.088 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.43 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

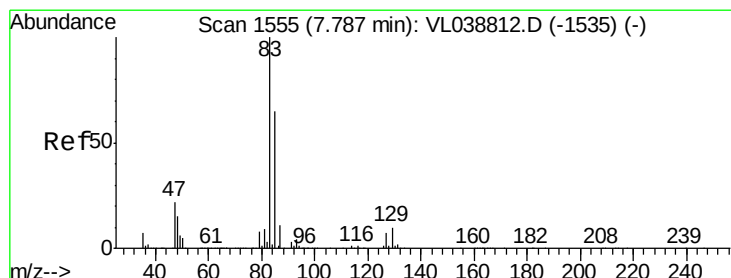
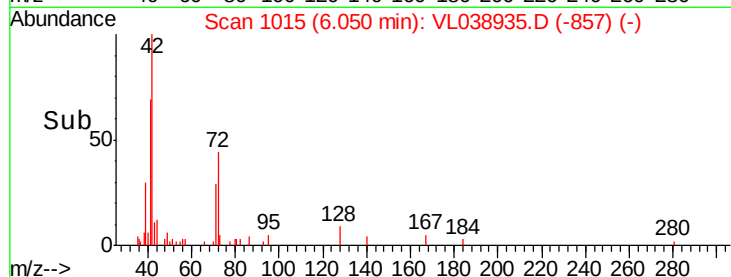
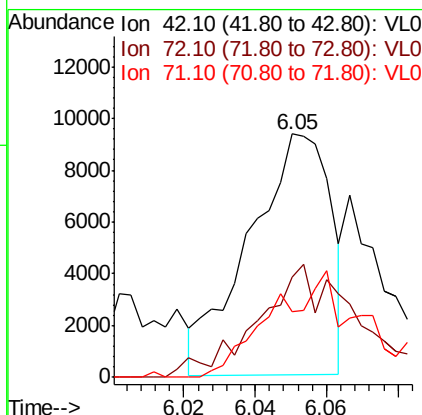
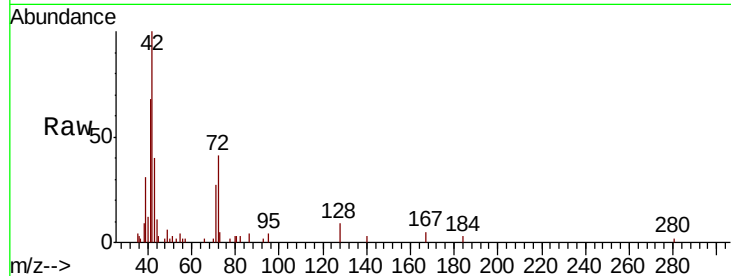
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	17.3	55.0	82.4#





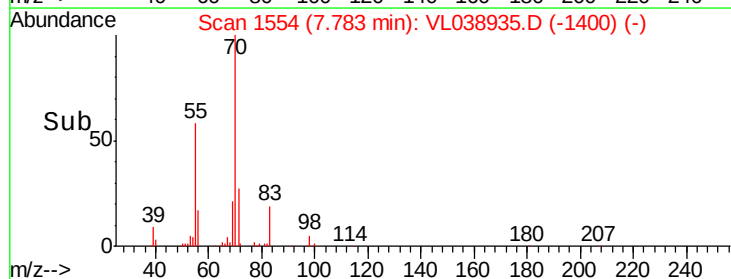
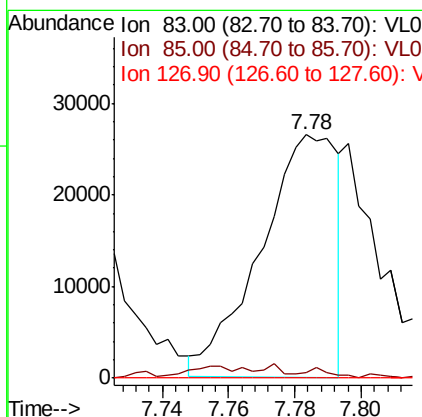
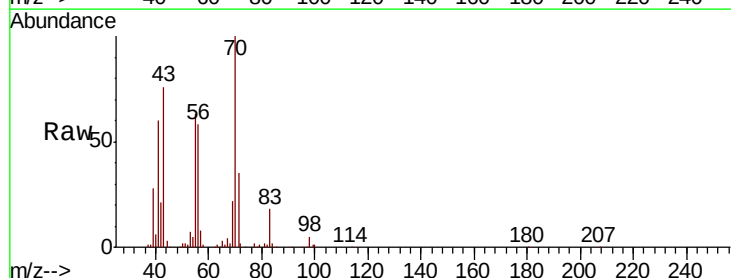
#41
Tetrahydrofuran
Concen: 0.127 ppbv
RT: 6.05
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Apr 2022 2:49

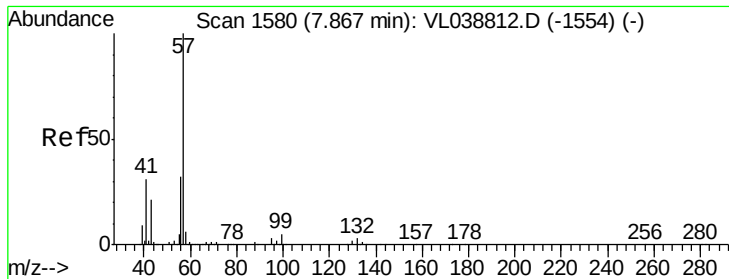
Tot Ion	Ratio	Lower	Upper
42	100		
72	63.1	31.4	47.0#
71	0.0	30.2	45.4#



#42
Bromodichloromethane
Concen: 0.211 ppbv
RT: 7.78 min Scan# 1554
Delta R.T.: -0.00 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	1.2	51.7	77.5#
127	0.0	5.9	8.9#





#44

2,2,4-Trimethylpentane

Concen: 0.499 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 2:49

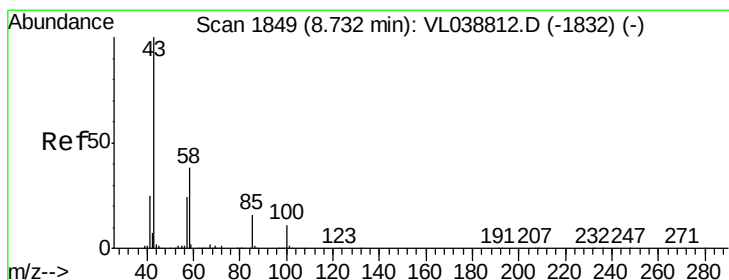
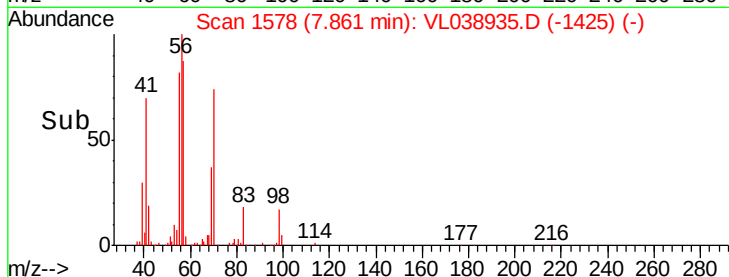
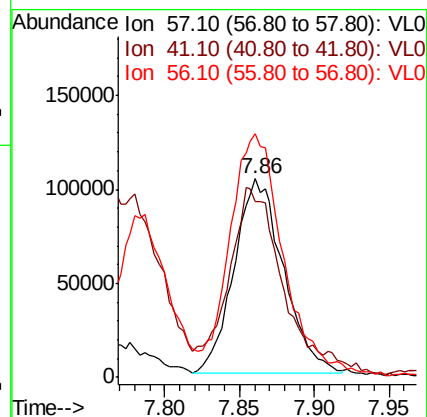
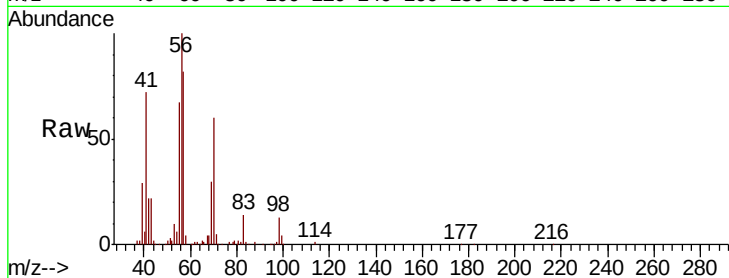
Tot Ion: 57 Resp: 237253

Ion Ratio Lower Upper

57 100

41 105.0 25.0 37.4#

56 139.9 25.3 37.9#



#50

4-Methyl-2-Pentanone

Concen: 3.408 ppbv

RT: 8.74 min Scan# 1850

Delta R.T. 0.00 min

Lab File: VL038935.D

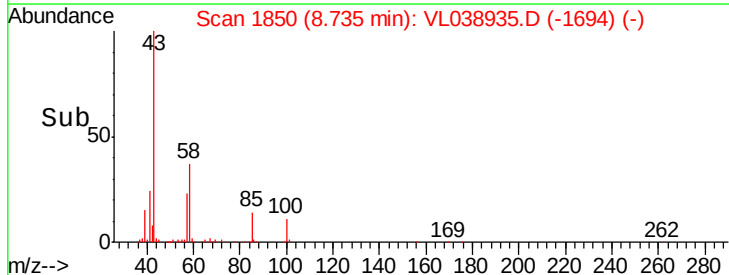
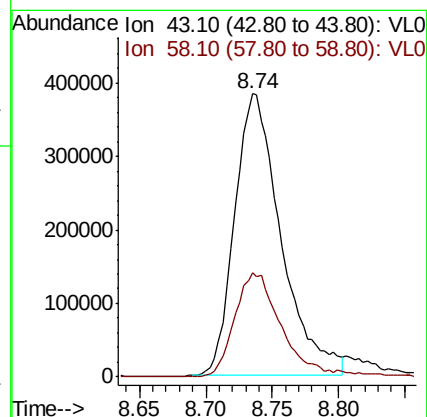
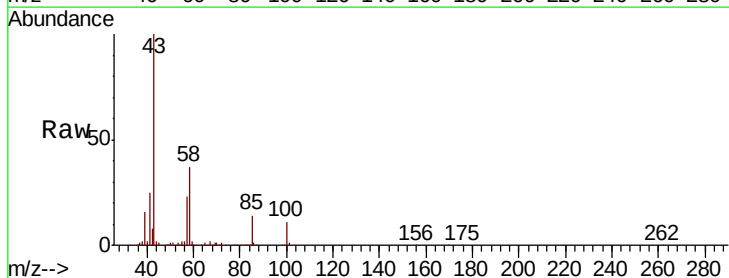
Acq: 15 Apr 2022 2:49

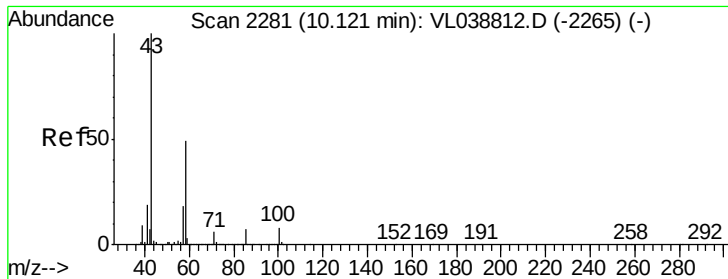
Tgt Ion: 43 Resp: 934727

Ion Ratio Lower Upper

43 100

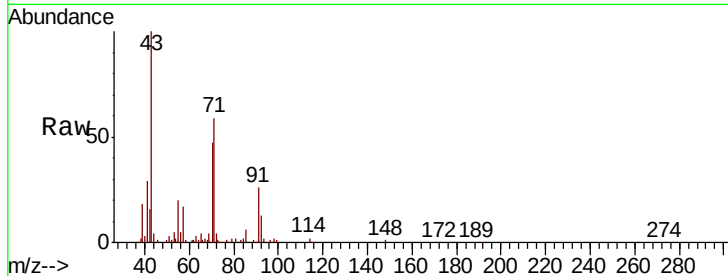
58 37.7 29.0 43.6



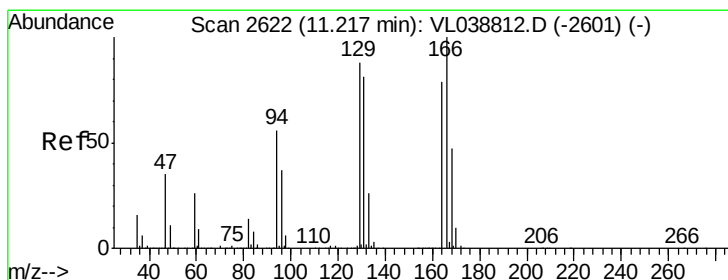
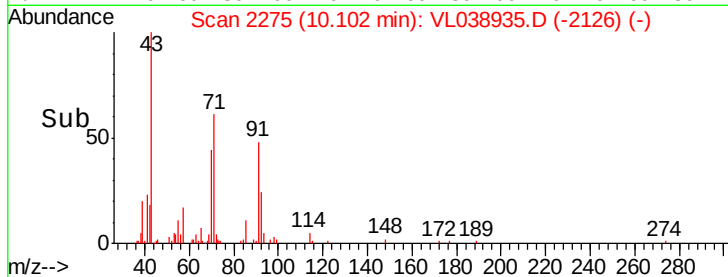
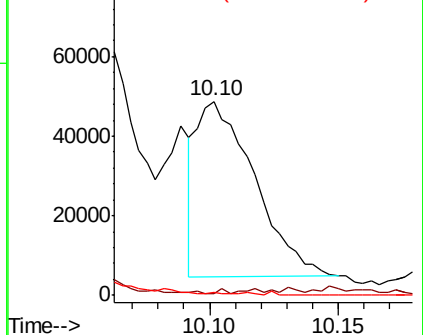


#51
2-Hexanone
Concen: 0.329 ppbv
RT: 10.10
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 2:49

Tot Ion: 43 Resp: 68010
Ion Ratio Lower Upper
43 100
58 8.1 41.4 62.0#
98 0.0 0.1 0.1#

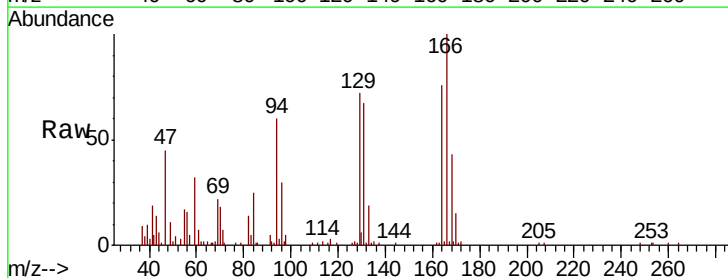


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

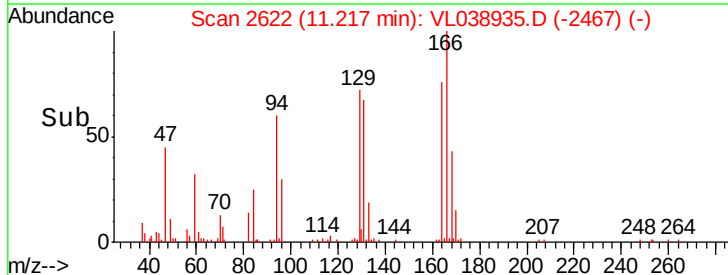
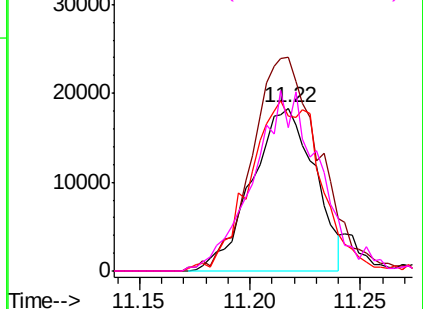


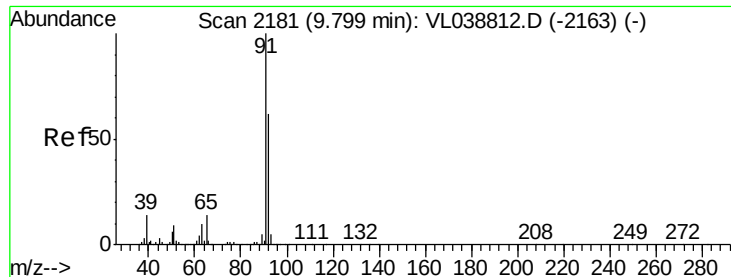
#52
Tetrachloroethene
Concen: 0.368 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

Tgt Ion: 164 Resp: 36116
Ion Ratio Lower Upper
164 100
166 128.8 101.0 151.6
129 93.6 88.7 133.1
131 85.4 81.8 122.6



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: 51.186 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

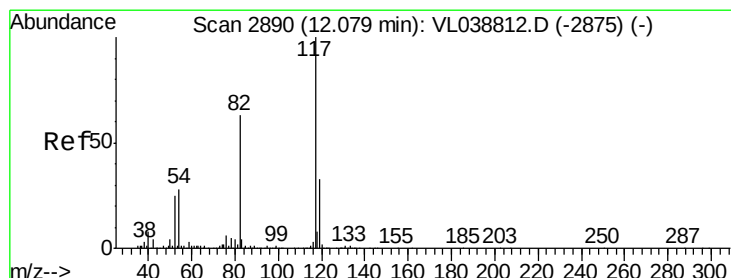
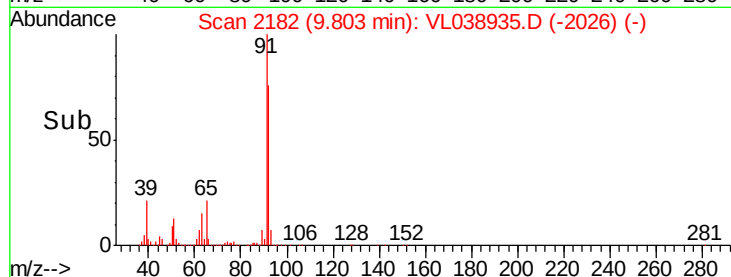
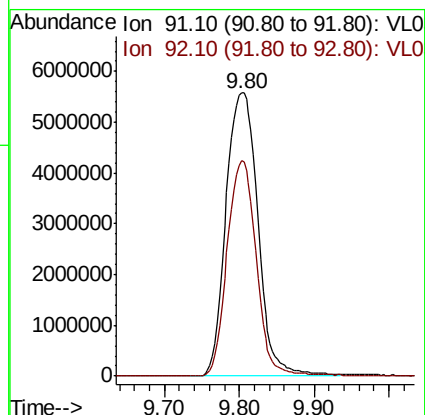
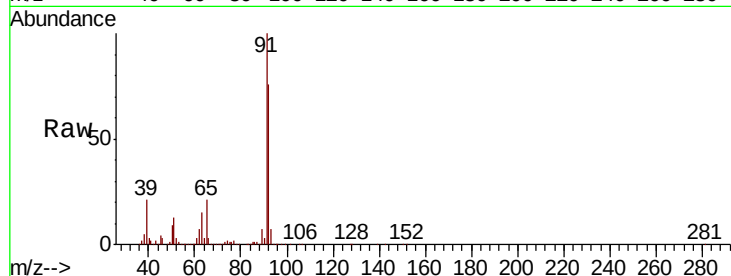
Acq: 15 Apr 2022 2:49

Tot Ion: 91 Resp:16590007

Ion Ratio Lower Upper

91 100

92 70.1 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: VL038935.D

Acq: 15 Apr 2022 2:49

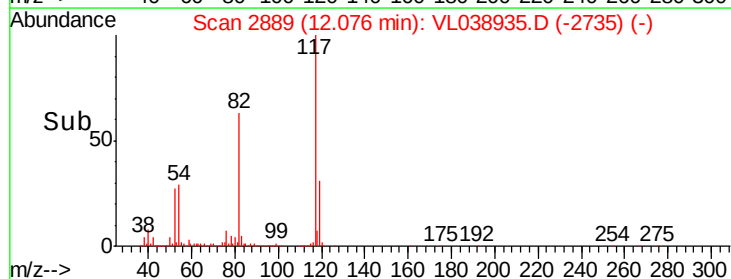
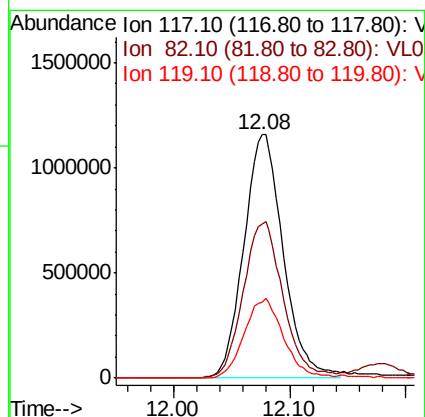
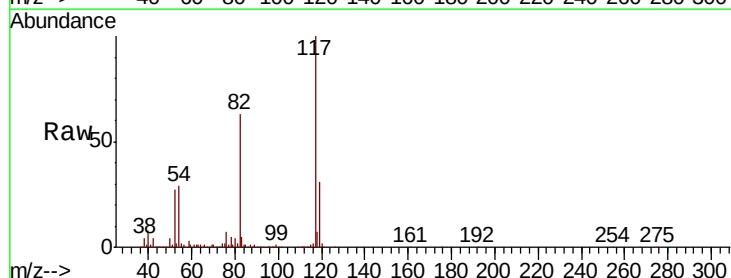
Tgt Ion:117 Resp: 2737931

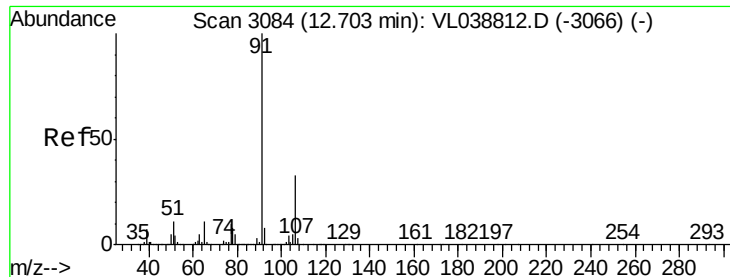
Ion Ratio Lower Upper

117 100

82 65.4 53.0 79.6

119 33.7 24.9 37.3





#58

Ethyl Benzene

Concen: 2.641 ppbv

RT: 12.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

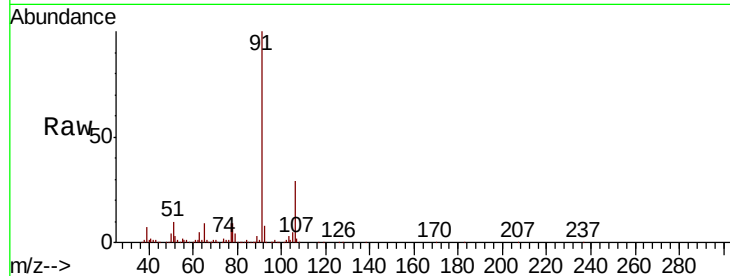
Acq: 15 Apr 2022 2:49

Tot Ion: 91 Resp: 1080383

Ion Ratio Lower Upper

91 100

106 29.1 26.7 40.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.70

500000

400000

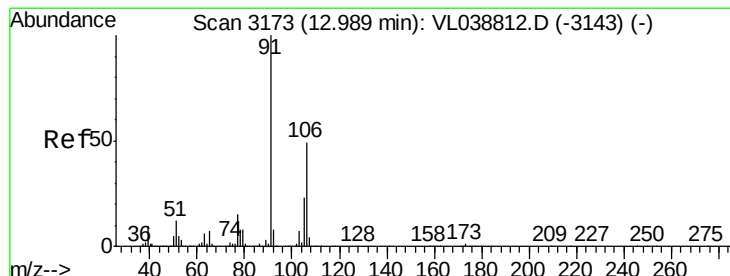
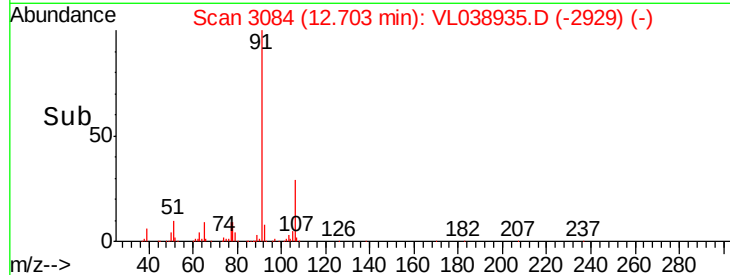
300000

200000

100000

0

Time-->



#59

m/p-Xylene

Concen: 8.053 ppbv

RT: 12.96 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL038935.D

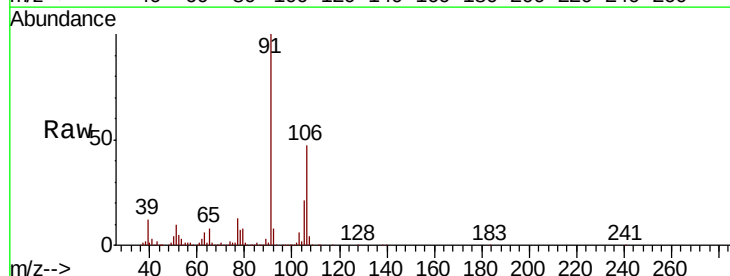
Acq: 15 Apr 2022 2:49

Tgt Ion: 91 Resp: 2767810

Ion Ratio Lower Upper

91 100

106 46.9 37.1 55.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.96

1000000

800000

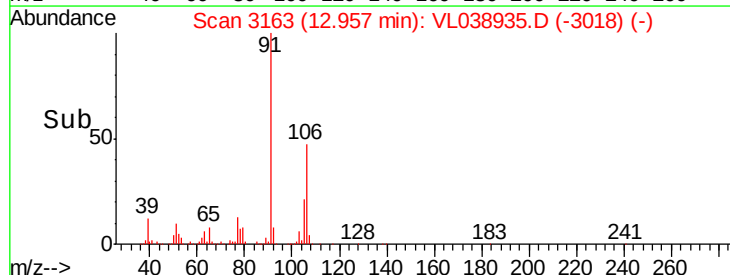
600000

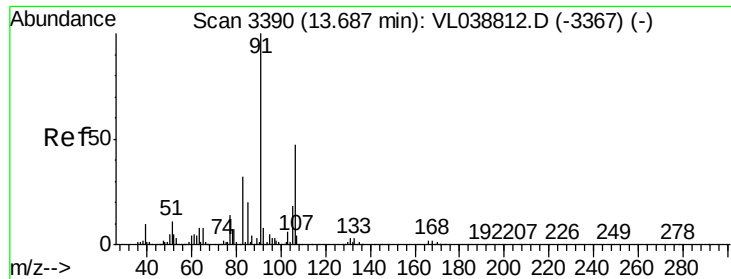
400000

200000

0

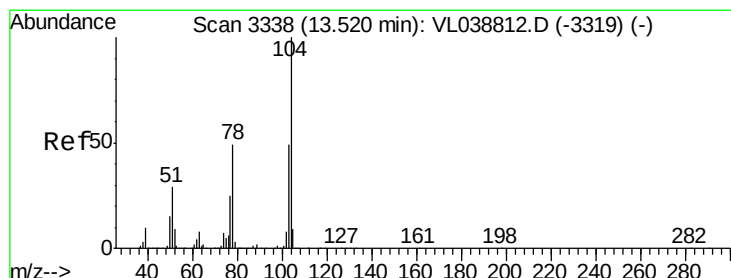
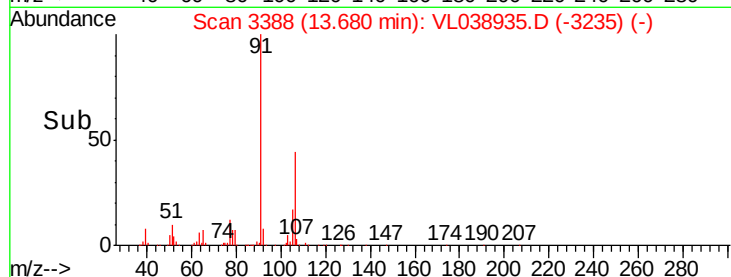
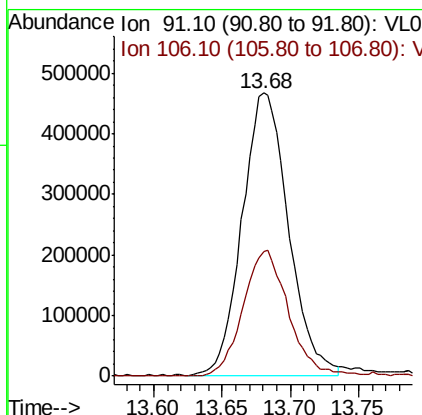
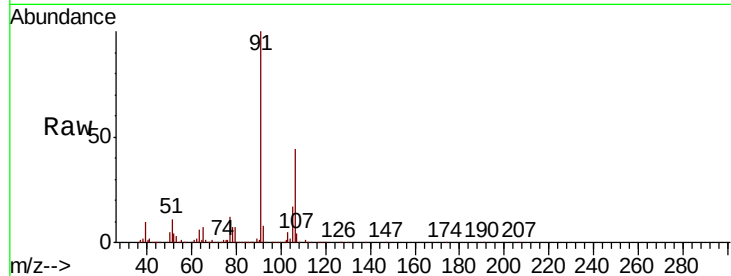
Time-->





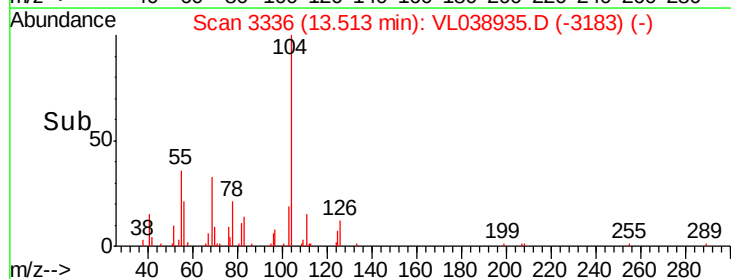
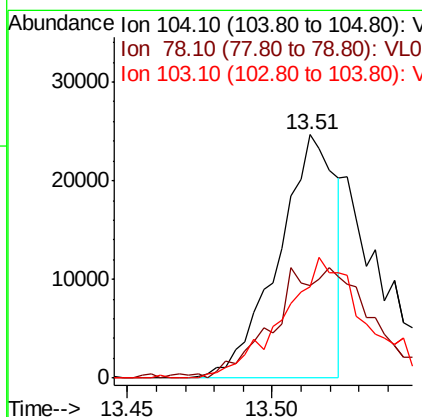
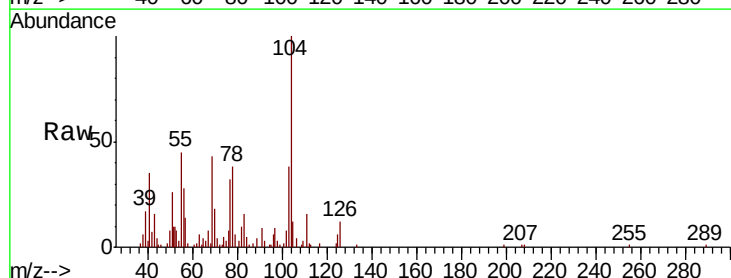
#60
o-Xylene
Concen: 3.407 ppbv
RT: 13.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 15 Apr 2022 2:49

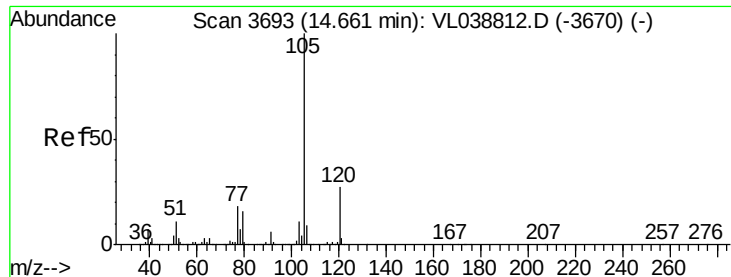
Tot Ion: 91 Resp: 1095725
Ion Ratio Lower Upper
91 100
106 45.3 23.8 71.4



#61
Styrene
Concen: 0.173 ppbv
RT: 13.51 min Scan# 3336
Delta R.T. -0.01 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

Tgt Ion: 104 Resp: 33894
Ion Ratio Lower Upper
104 100
78 84.6 40.5 60.7#
103 71.7 39.0 58.4#





#62

Isopropylbenzene

Concen: 0.314 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

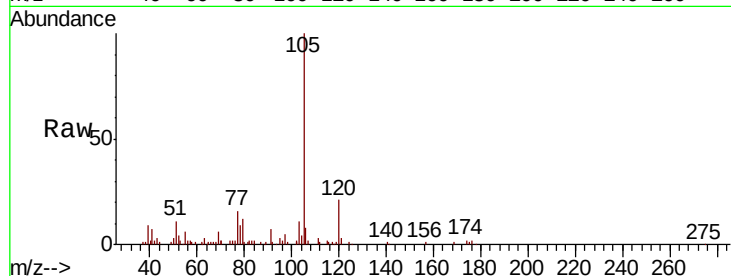
Acq: 15 Apr 2022 2:49

Tot Ion:105 Resp: 151729

Ion Ratio Lower Upper

105 100

120 25.6 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.65

80000

60000

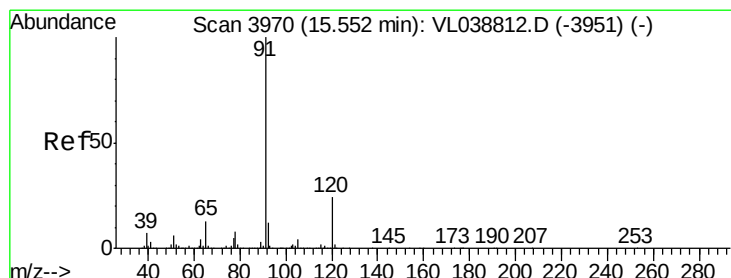
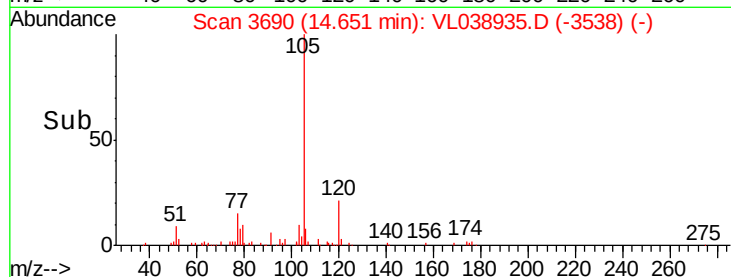
40000

20000

0

Time-->

14.60 14.70



#64

n-propylbenzene

Concen: 0.993 ppbv

RT: 15.55 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VL038935.D

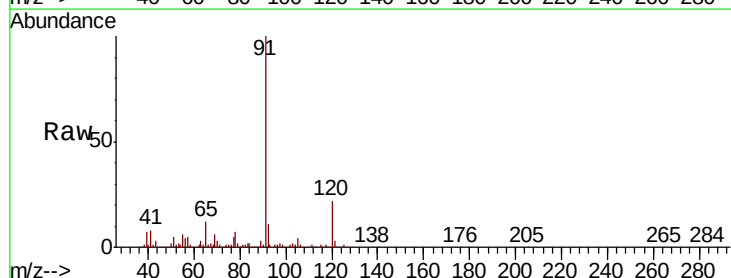
Acq: 15 Apr 2022 2:49

Tgt Ion:120 Resp: 124493

Ion Ratio Lower Upper

120 100

91 503.6 360.6 540.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

300000

250000

200000

150000

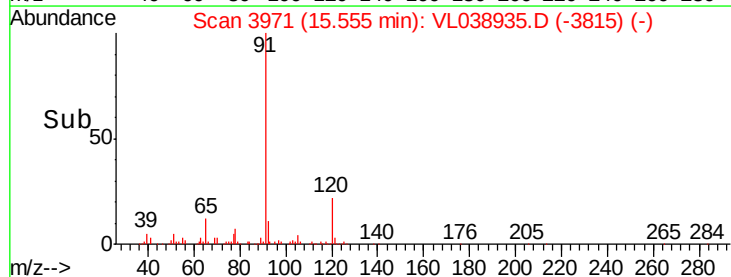
100000

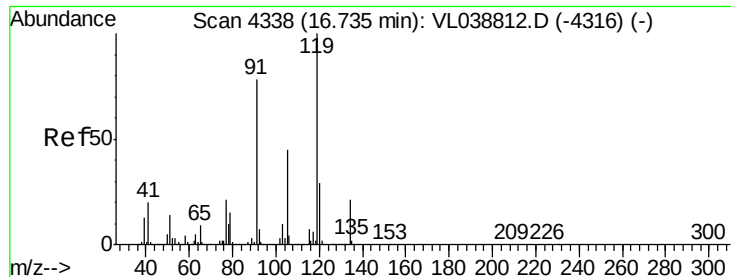
50000

0

Time-->

15.45 15.50 15.55 15.60





#65

tert-Butylbenzene

Concen: 0.223 ppbv

RT: 16.74 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 2:49

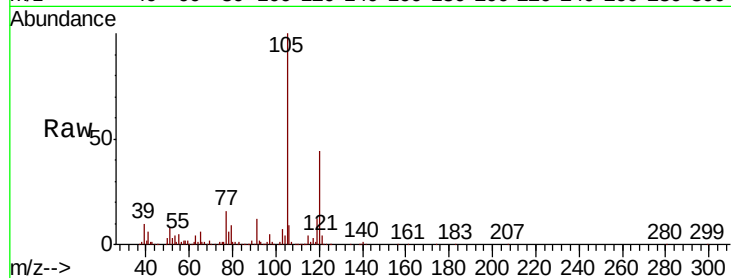
Tot Ion: 119 Resp: 95402

Ion Ratio Lower Upper

119 100

91 0.0 62.8 94.2#

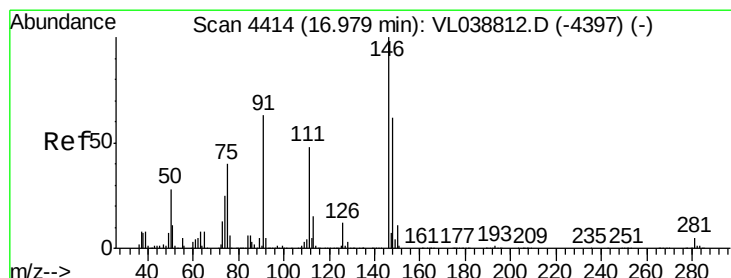
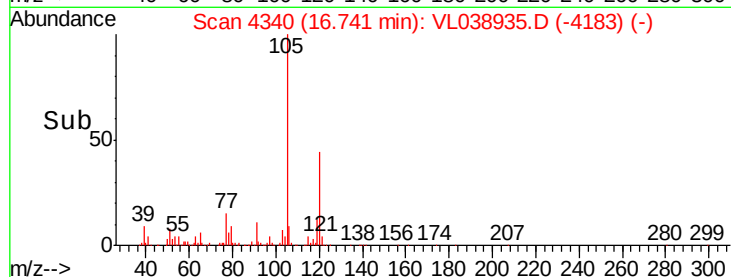
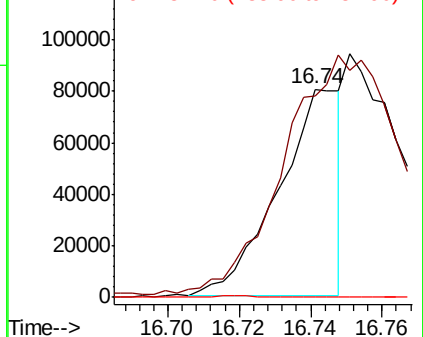
134 0.8 16.2 24.4#



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: 1.137 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.23 min

Lab File: VL038935.D

Acq: 15 Apr 2022 2:49

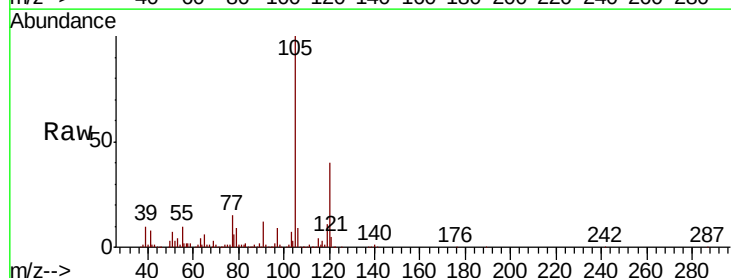
Tgt Ion: 91 Resp: 99142

Ion Ratio Lower Upper

91 100

126 0.9 15.4 23.0#

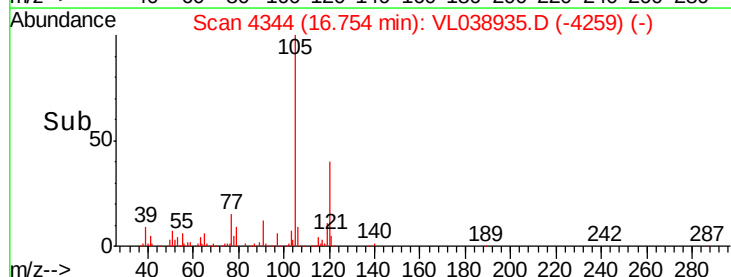
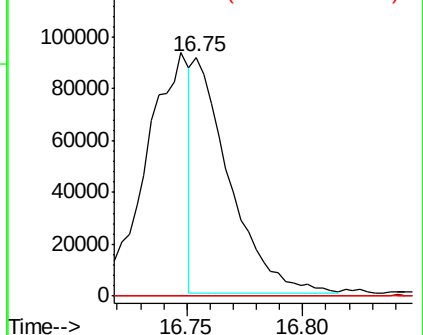
128 0.0 4.7 7.1#

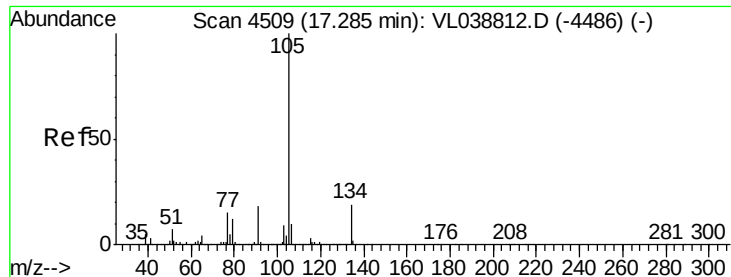


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.250 ppbv

RT: 17.28

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

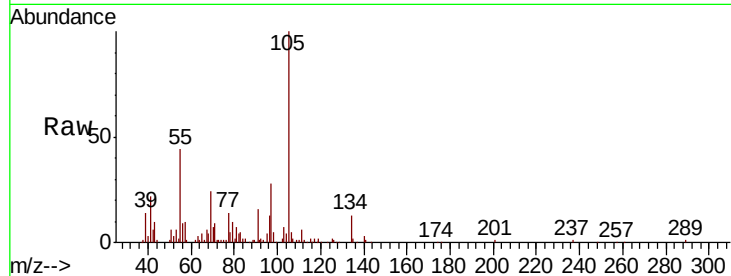
Acq: 15 Apr 2022 2:49

Tot Ion: 105 Resp: 150070

Ion Ratio Lower Upper

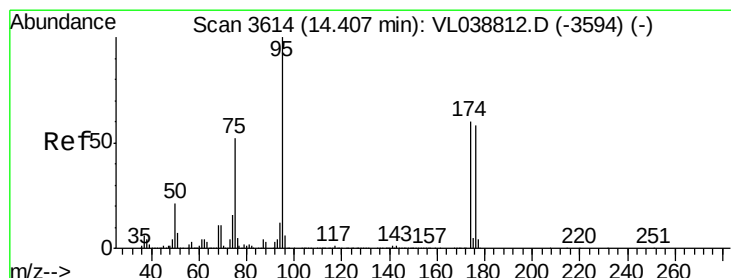
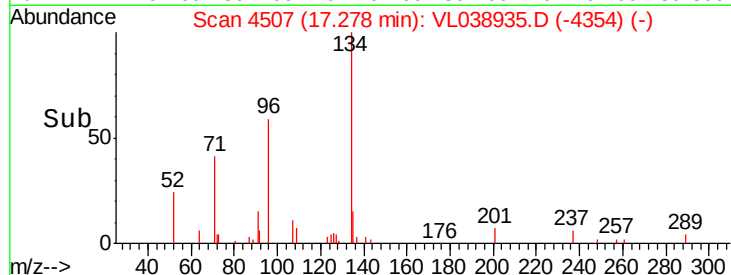
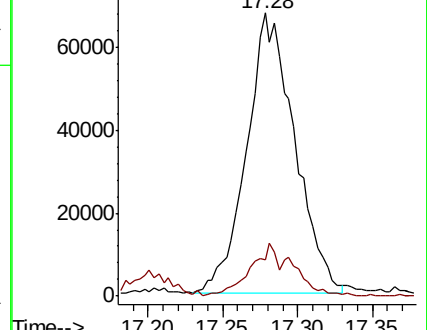
105 100

134 16.6 15.1 22.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.251 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.00 min

Lab File: VL038935.D

Acq: 15 Apr 2022 2:49

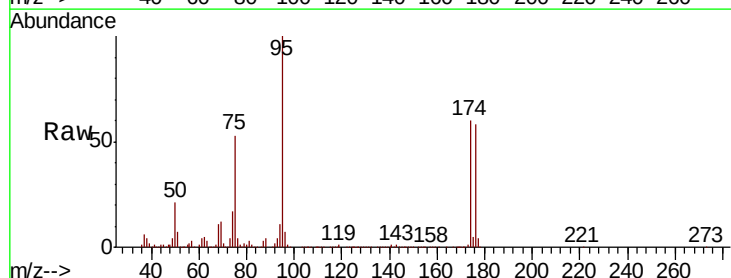
Tgt Ion: 95 Resp: 2128836

Ion Ratio Lower Upper

95 100

174 64.7 52.0 78.0

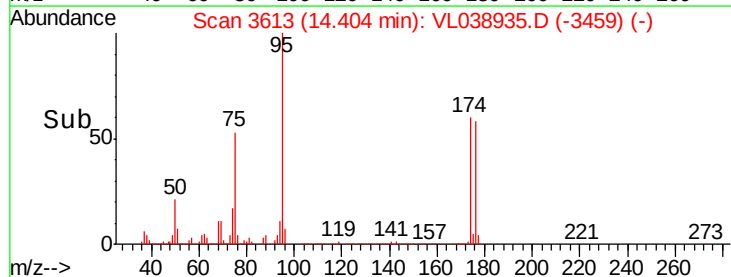
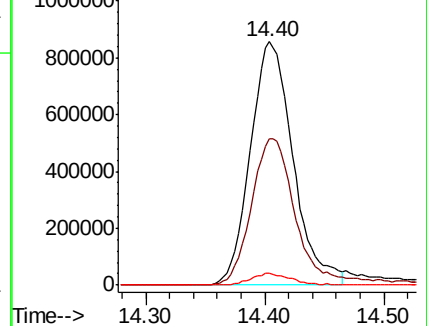
175 4.9 4.0 6.0

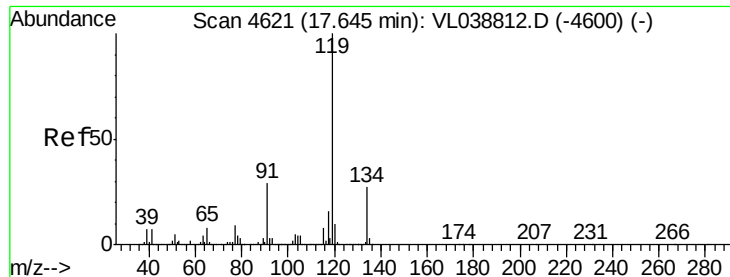


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

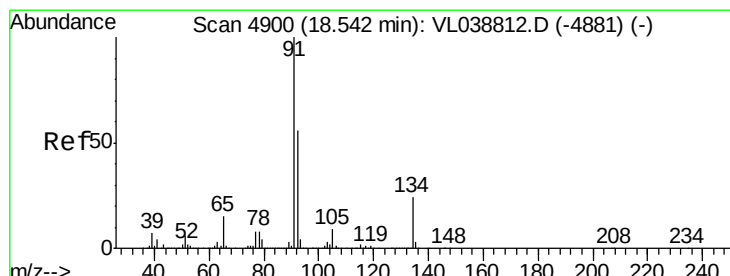
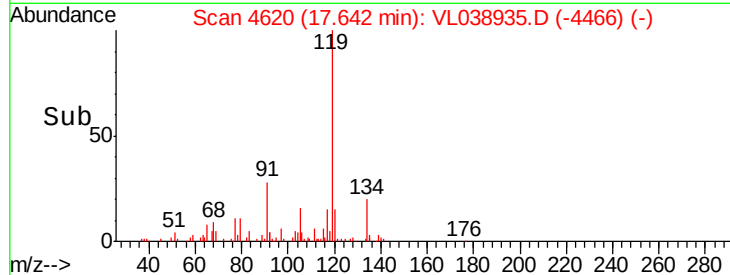
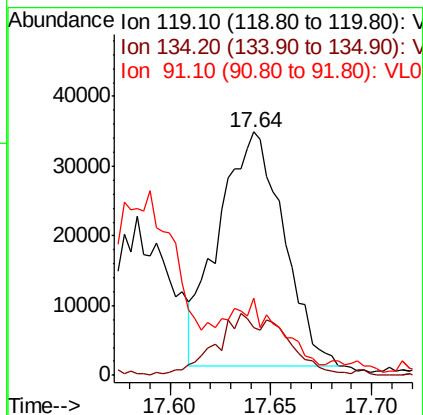
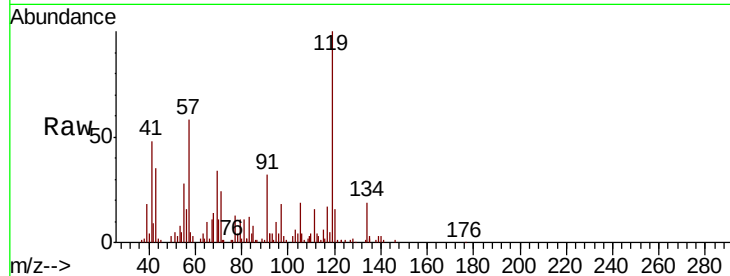
Ion 175.00 (174.70 to 175.70): V





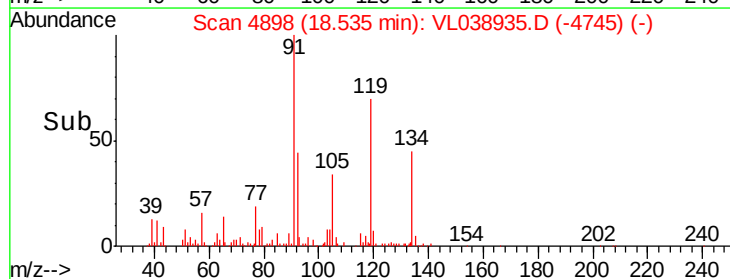
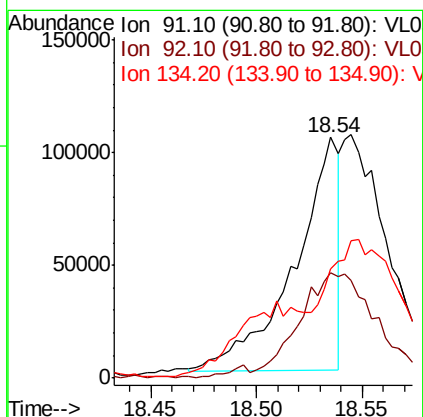
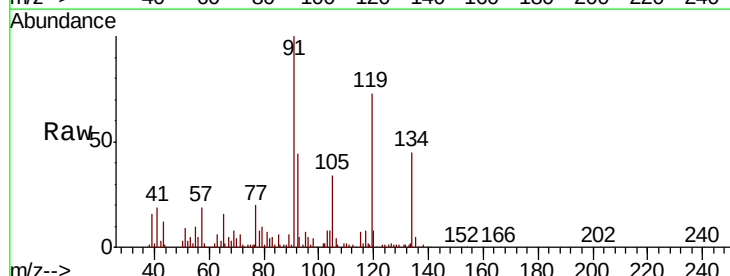
#69
 p-Isopropyltoluene
 Concen: 0.153 ppbv
 RT: 17.64 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 2:49

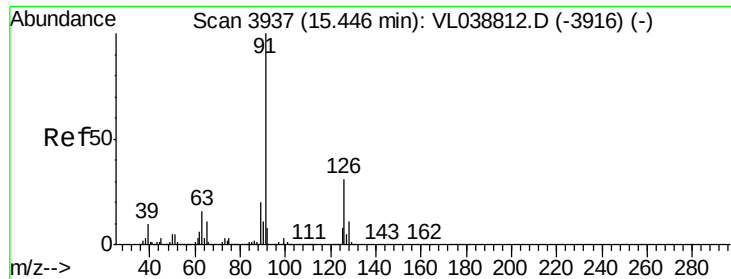
Tot Ion:	119	Resp:	75645
Ion Ratio	Lower	Upper	
119	100		
134	28.4	20.8	31.2
91	27.3	22.6	34.0



#70
 n-Butylbenzene
 Concen: 0.303 ppbv
 RT: 18.54 min Scan# 4898
 Delta R.T. -0.01 min
 Lab File: VL038935.D
 Acq: 15 Apr 2022 2:49

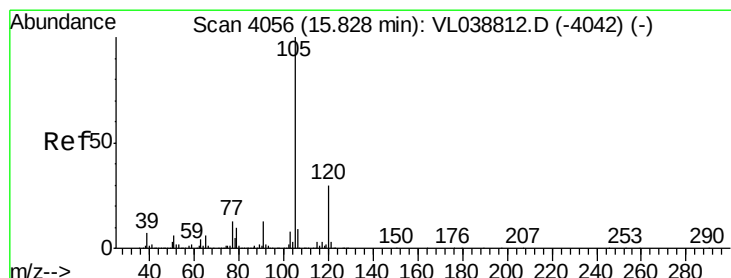
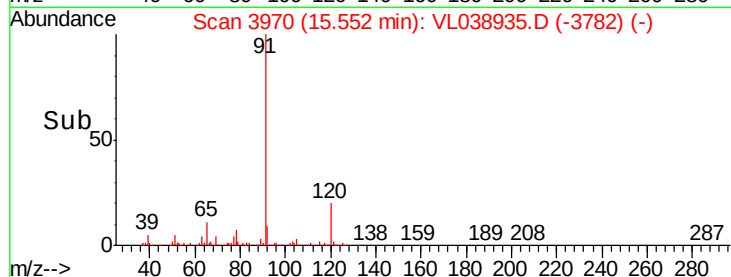
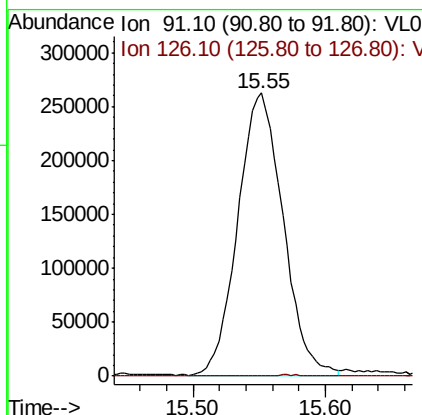
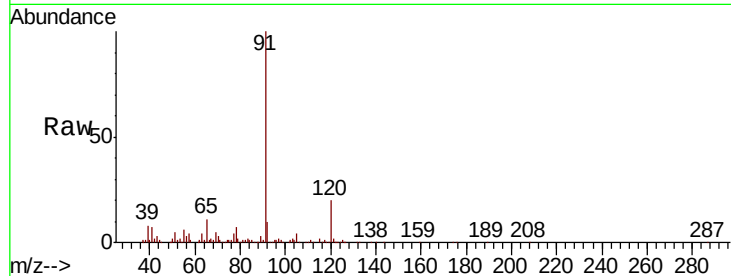
Tgt Ion:	91	Resp:	150783
Ion Ratio	Lower	Upper	
91	100		
92	81.9	44.6	66.8#
134	0.0	19.2	28.8#





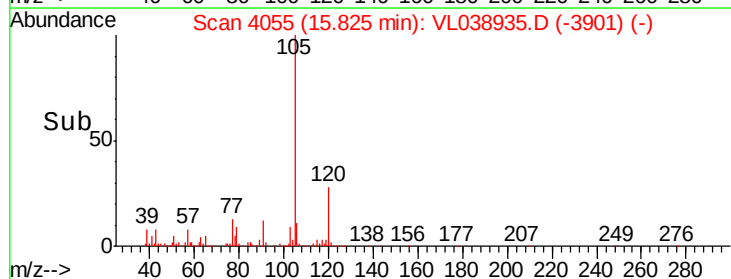
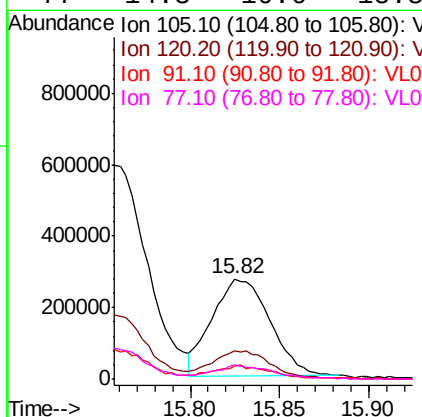
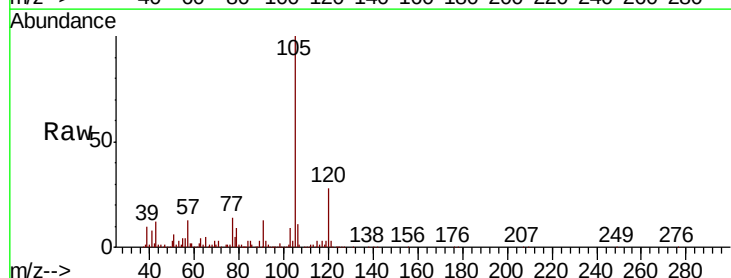
#71
 2-Chlorotoluene
 Concen: 1.705 ppbv
 RT: 15.55
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1165-19-1A-4
 Acq: 15 Apr 2022 2:49

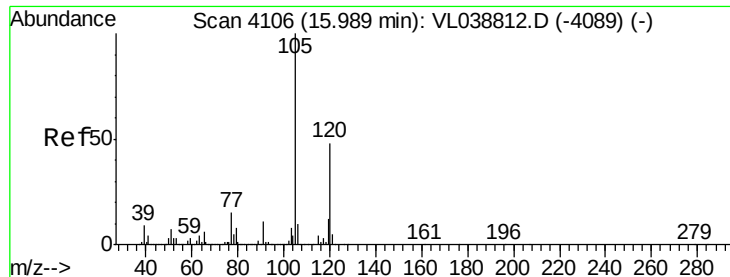
Tot Ion: 91 Resp: 619013
 Ion Ratio Lower Upper
 91 100
 126 0.5 13.0 51.8#



#72
 4-Ethyltoluene
 Concen: 1.619 ppbv
 RT: 15.82 min Scan# 4055
 Delta R.T. -0.00 min
 Lab File: VL038935.D
 Acq: 15 Apr 2022 2:49

Tgt Ion: 105 Resp: 621873
 Ion Ratio Lower Upper
 105 100
 120 30.8 24.3 36.5
 91 13.7 9.4 14.2
 77 14.3 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 1.622 ppbv

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

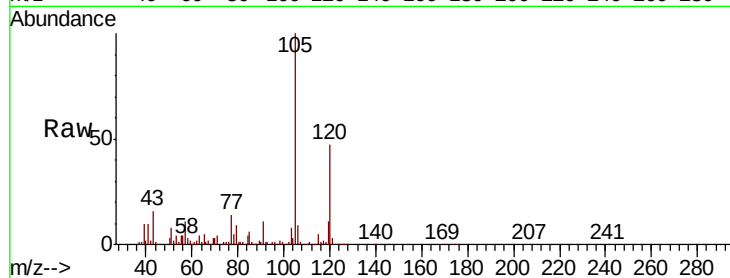
Acq: 15 Apr 2022 2:49

Tot Ion:105 Resp: 559476

Ion Ratio Lower Upper

105 100

120 46.5 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.99

250000

200000

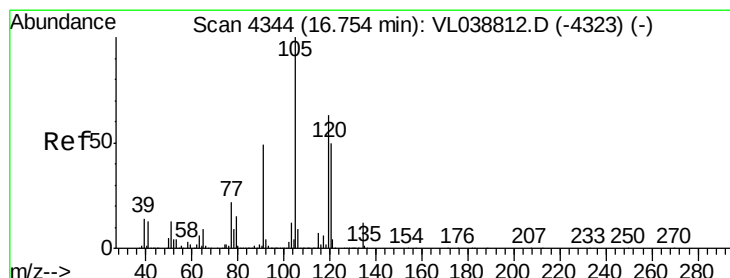
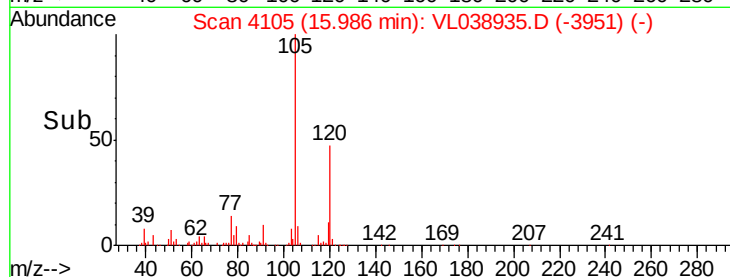
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 5.284 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL038935.D

Acq: 15 Apr 2022 2:49

Tgt Ion:105 Resp: 1927332

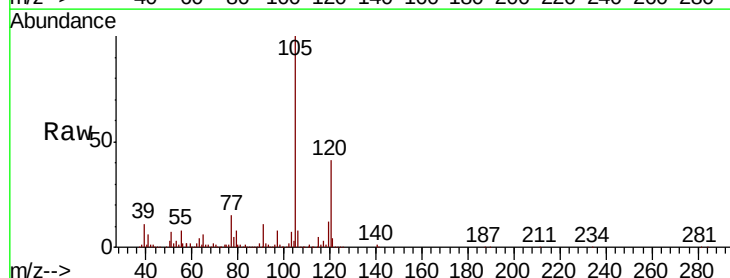
Ion Ratio Lower Upper

105 100

120 41.3 39.8 59.8

91 10.7 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

1200000

1000000

800000

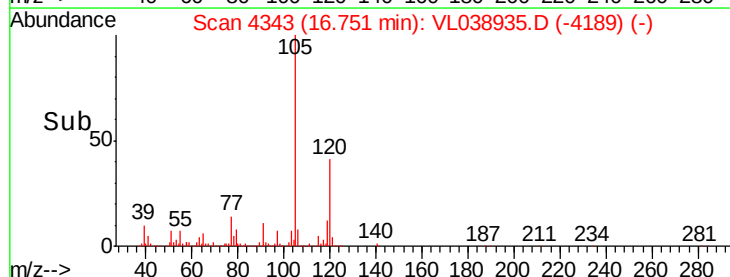
600000

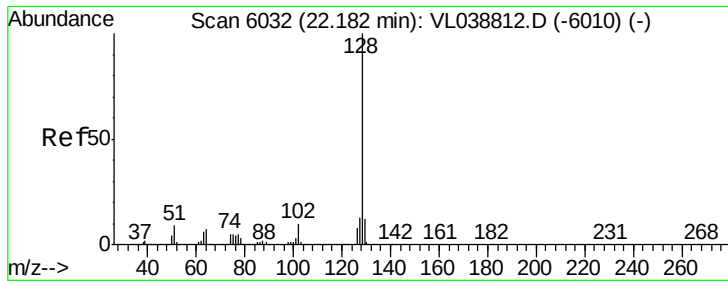
400000

200000

0

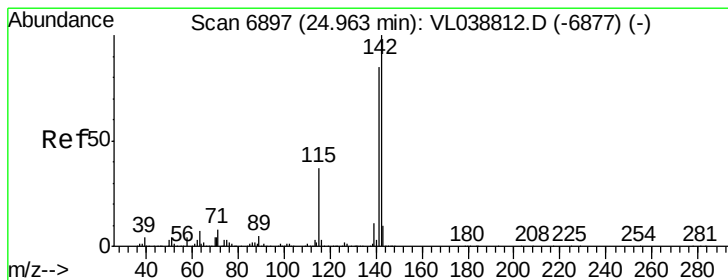
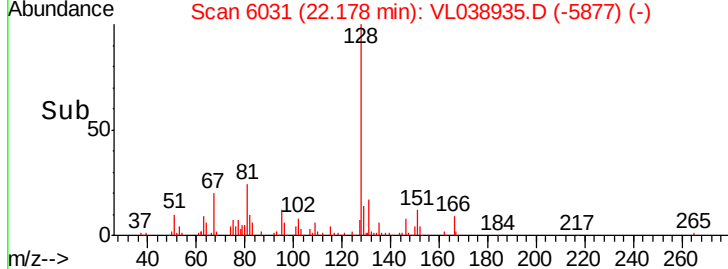
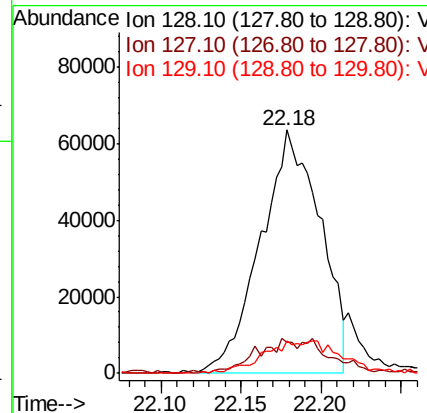
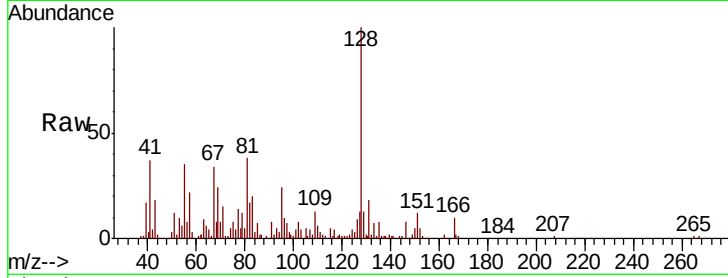
Time-->





#79
Naphthalene
Concen: 0.596 ppbv
RT: 22.18 min
Instrument: MSVOA_1
Delta R.T.: 0.31 min
Lab File: ClientSampleId : 1165-19-1A-4
Acq: 15 Apr 2022 2:49

Tot Ion:	128	Resp:	162731
Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.6	15.8
129	15.0	9.4	14.0#



#80
Naphthalene, 2-methyl-
Concen: 0.611 ppbv
RT: 25.28 min Scan# 6995
Delta R.T.: 0.31 min
Lab File: VL038935.D
Acq: 15 Apr 2022 2:49

Tgt Ion:	142	Resp:	41077
Ion	Ratio	Lower	Upper
142	100		
141	88.8	68.8	103.2
115	39.1	31.6	47.4

