

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039057.D
 Acq On : 14 May 2022 4:36
 Operator : SY/AP
 Sample : N2828-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: May 14 07:18:54 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	944382	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2522967	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2218235	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1730756	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.12	85	440159	2.975	ppbv 99
3) Chlorodifluoromethane	2.98	51	231626	1.977	ppbv # 84
4) Chloromethane	3.15	50	6624	0.113	ppbv # 75
7) Chloroethane	3.56	64	5917	0.330	ppbv 92
8) Dichlorotetrafluoroethane	3.12	85	440159	3.282	ppbv # 17
9) Propene	3.02	41	240558	4.701	ppbv # 13
10) Heptane	8.11	43	284727	2.268	ppbv 95
11) Trichlorofluoromethane	3.94	101	39351	0.310	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	3654	0.042	ppbv # 1
13) Ethanol	3.60	45	801662	221.356	ppbv 86
15) Acetone	3.85	43	6643772	74.579	ppbv # 89
16) 1,3-Butadiene	3.35	39	138569	2.707	ppbv # 37
17) tert-Butyl alcohol	4.29	59	115327	1.684	ppbv 94
18) 1,1-Dichloroethene	4.29	96	26203	0.696	ppbv 81
19) Isopropyl Alcohol	4.00	45	1135023	26.797	ppbv # 95
20) Methylene Chloride	4.34	84	71264	2.123	ppbv 97
21) Allyl Chloride	4.29	41	51593	0.850	ppbv # 59
23) Vinyl Acetate	5.07	43	729333	10.347	ppbv 99
24) 1,1-Dichloroethane	5.01	63	7562	0.093	ppbv # 95
25) Ethyl Acetate	5.68	43	984351	4.617	ppbv # 81
26) Hexane	5.68	57	1294434	13.663	ppbv # 21
27) Carbon Disulfide	4.54	76	321298	3.570	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	15790	0.219	ppbv # 16
29) Chloroform	5.75	83	33295113	217.225	ppbv # 66
30) Cyclohexane	7.13	84	5050	0.064	ppbv # 1
32) 1,1,1-Trichloroethane	6.51	97	7414	0.048	ppbv # 30
34) 2-Butanone	5.24	43	3575000	27.775	ppbv 97
35) Carbon Tetrachloride	7.01	117	257284	1.548	ppbv 100
36) Benzene	6.89	78	175720	0.814	ppbv # 94
38) Trichloroethene	7.83	130	3272	0.034	ppbv # 65
39) 1,2-Dichloropropane	7.17	63	641476	7.636	ppbv # 27
41) Tetrahydrofuran	5.99	42	60155	0.695	ppbv # 46
42) Bromodichloromethane	7.78	83	200537	1.098	ppbv # 96
43) Methyl Methacrylate	8.04	69	6142	0.070	ppbv # 1
44) 2,2,4-Trimethylpentane	7.85	57	25426	0.067	ppbv # 43
50) 4-Methyl-2-Pentanone	8.74	43	78348	0.347	ppbv # 80
51) 2-Hexanone	10.11	43	1478299	8.974	ppbv # 96
52) Tetrachloroethene	11.21	164	1733068	22.462	ppbv 97
53) Toluene	9.79	91	317416	1.312	ppbv 99
58) Ethyl Benzene	12.69	91	32507	0.102	ppbv 94
60) o-Xylene	13.67	91	160116	0.624	ppbv 99

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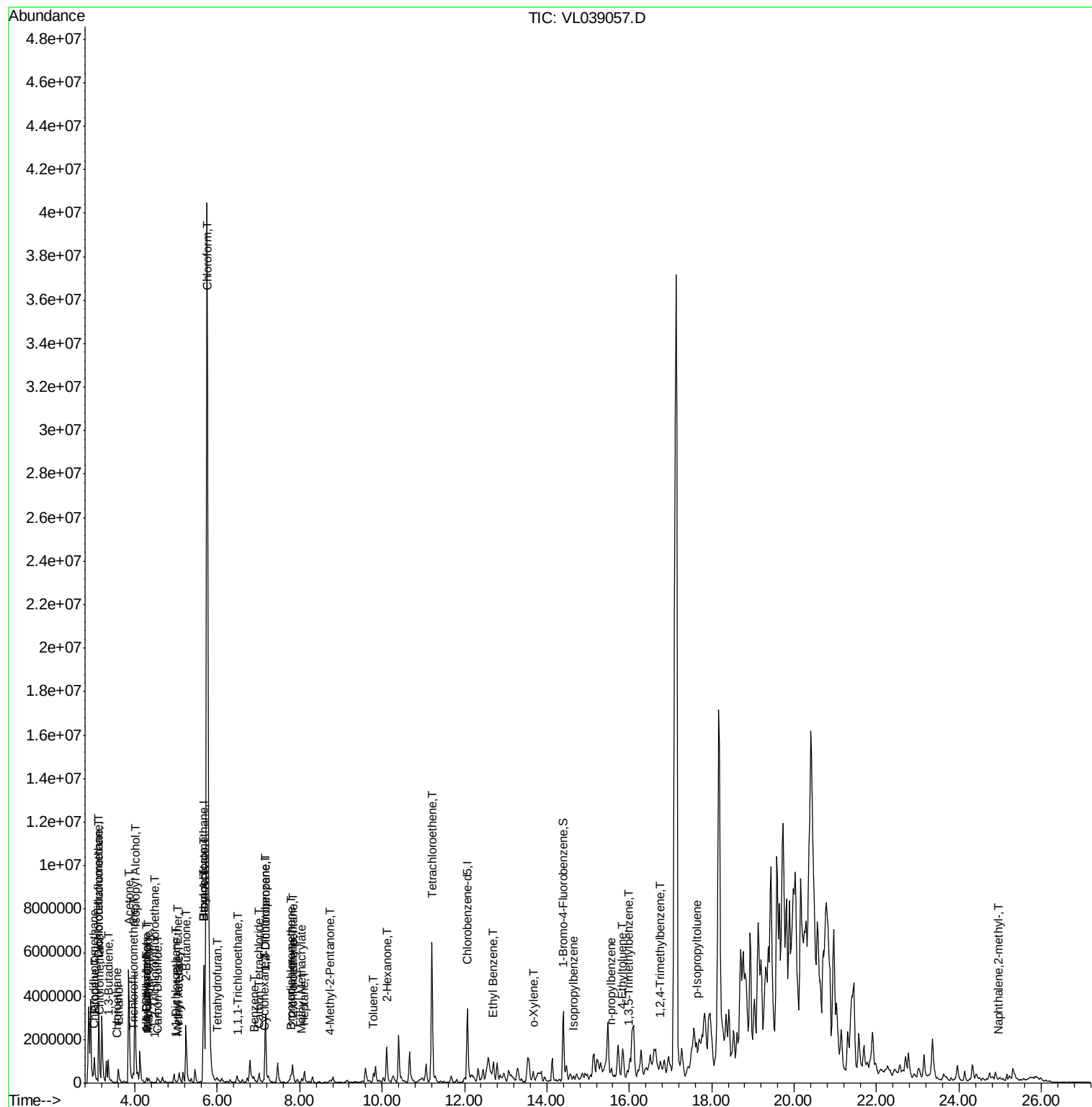
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.65	105	232545	0.620	ppbv	99
64) n-propylbenzene	15.55	120	2937	0.032	ppbv #	1
69) p-Isopropyltoluene	17.63	119	30214	0.080	ppbv #	51
72) 4-Ethyltoluene	15.82	105	21304	0.073	ppbv #	77
73) 1,3,5-Trimethylbenzene	15.98	105	39833	0.151	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.74	105	126910	0.440	ppbv #	63
80) Naphthalene,2-methyl-	24.95	142	4372	0.062	ppbv #	82

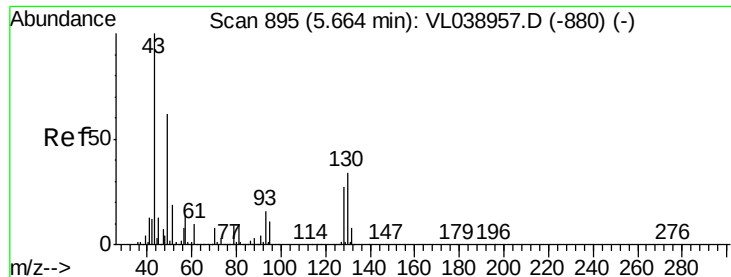
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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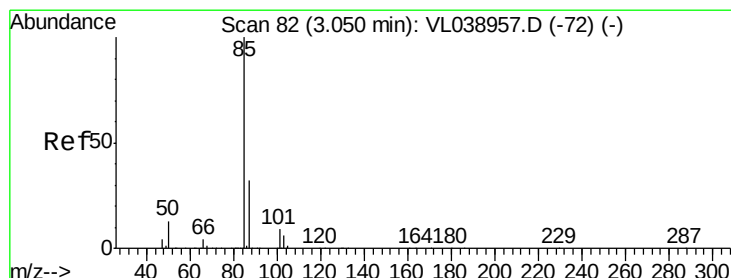
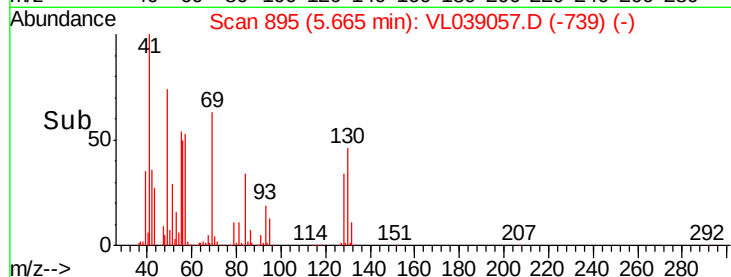
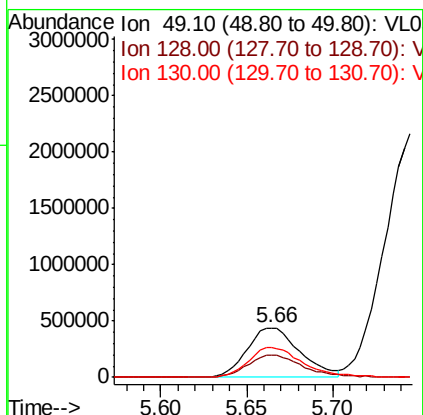
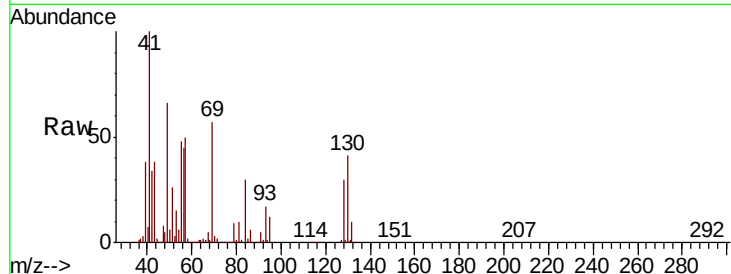
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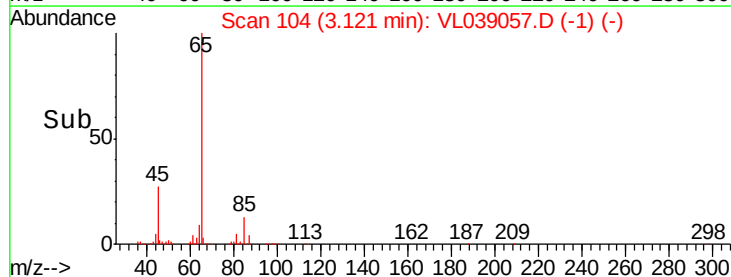
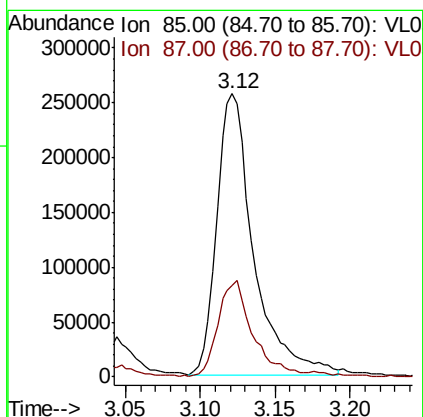
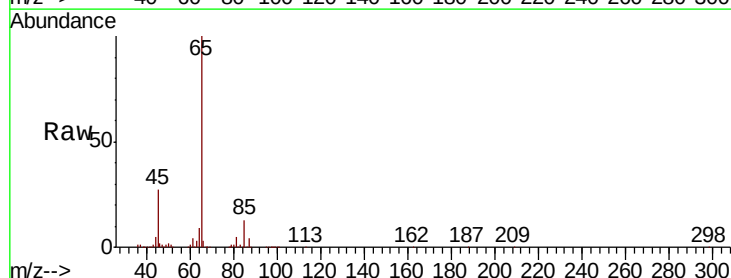
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SV2
 Acq: 14 May 2022 4:30

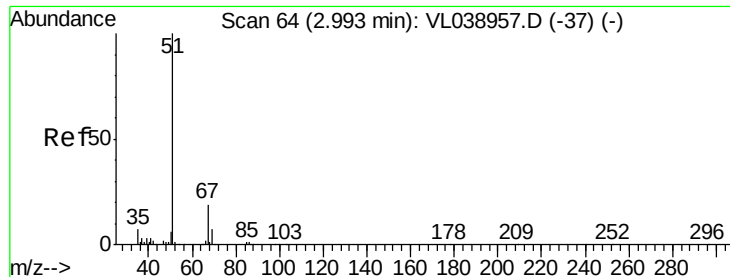
Tot Ion: 49 Resp: 944382
 Ion Ratio Lower Upper
 49 100
 128 47.7 23.3 69.8
 130 62.4 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 2.975 ppbv
 RT: 3.12 min Scan# 104
 Delta R.T.: 0.07 min
 Lab File: VL039057.D
 Acq: 14 May 2022 4:36

Tgt Ion: 85 Resp: 440159
 Ion Ratio Lower Upper
 85 100
 87 32.5 25.7 38.5





#3

Chlorodifluoromethane

Concen: 1.977 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV2

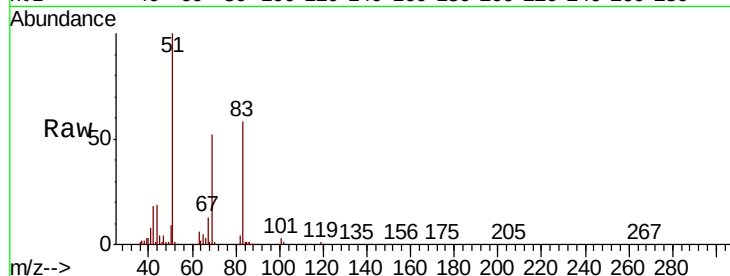
Acq: 14 May 2022 4:30

Tot Ion: 51 Resp: 231626

Ion Ratio Lower Upper

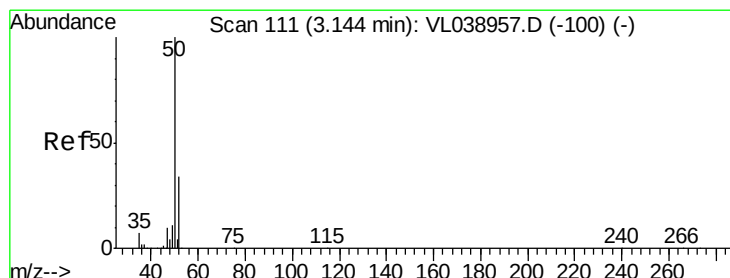
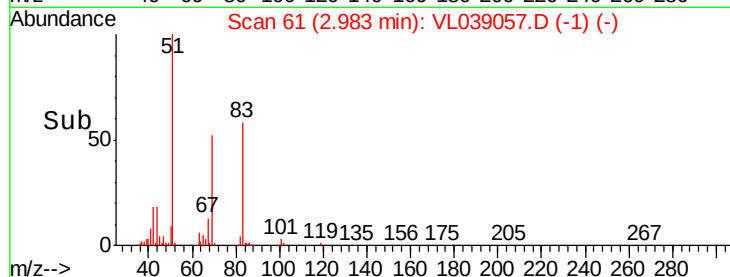
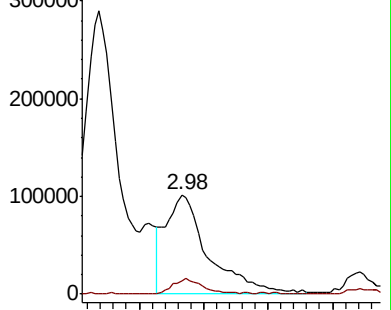
51 100

67 12.7 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.113 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL039057.D

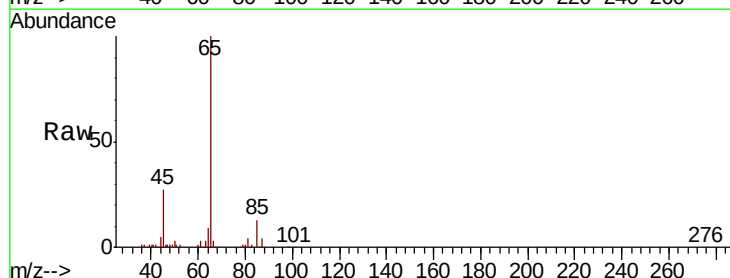
Acq: 14 May 2022 4:36

Tgt Ion: 50 Resp: 6624

Ion Ratio Lower Upper

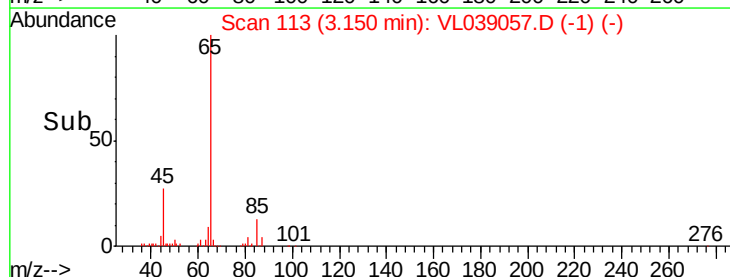
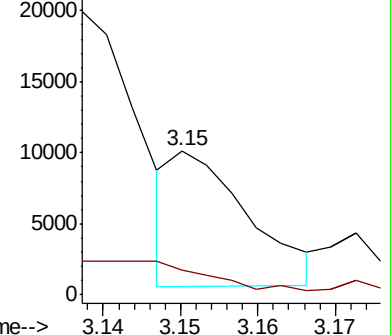
50 100

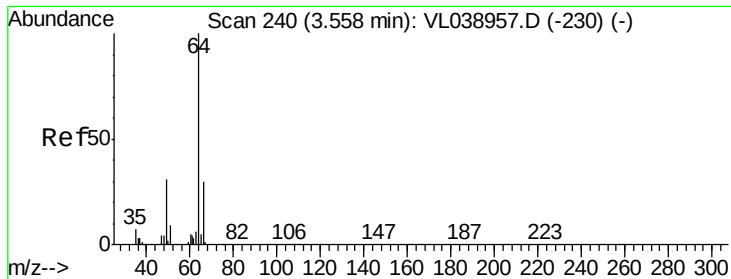
52 19.7 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.330 ppbv

RT: 3.56 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

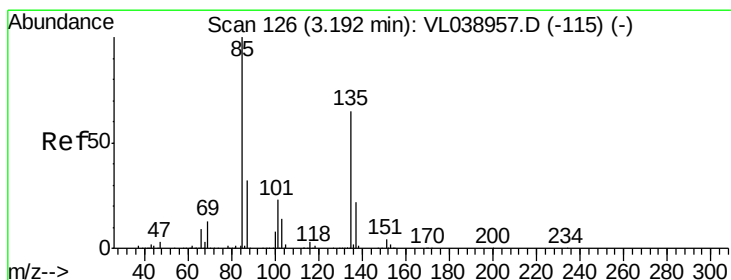
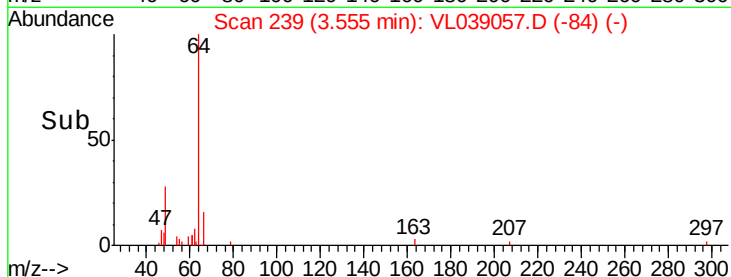
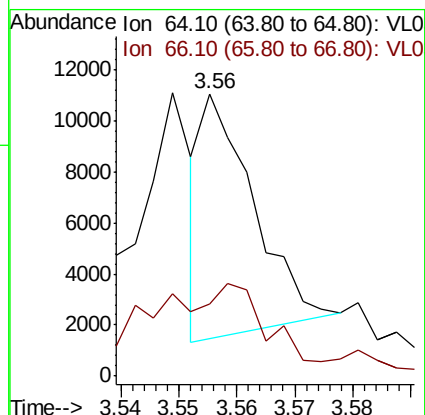
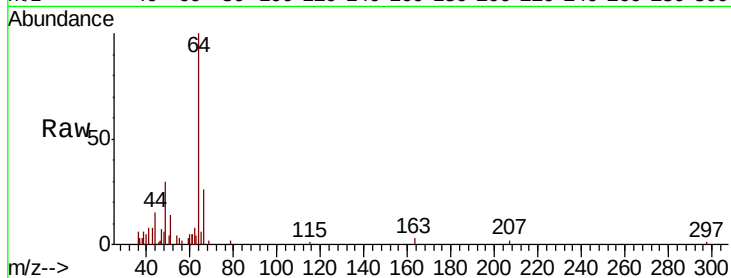
Acq: 14 May 2022 4:30

Tot Ion: 64 Resp: 5917

Ion Ratio Lower Upper

64 100

66 25.6 23.8 35.8



#8

Dichlorotetrafluoroethane

Concen: 3.282 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.07 min

Lab File: VL039057.D

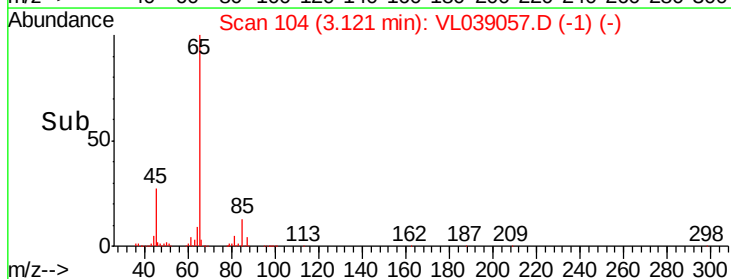
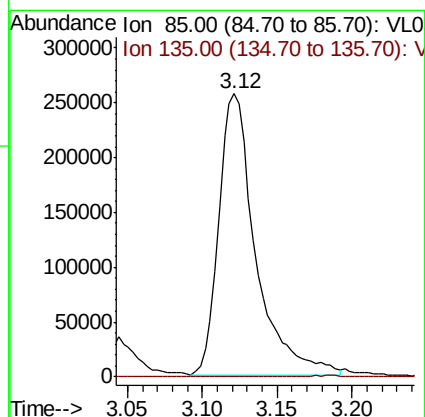
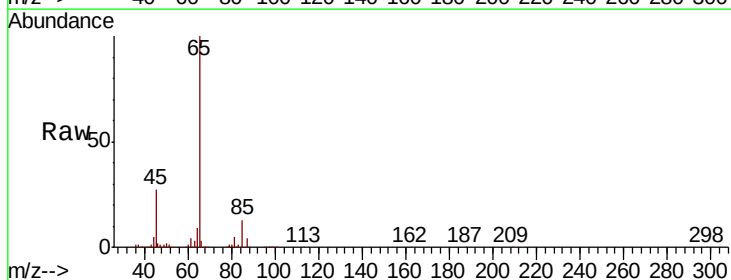
Acq: 14 May 2022 4:36

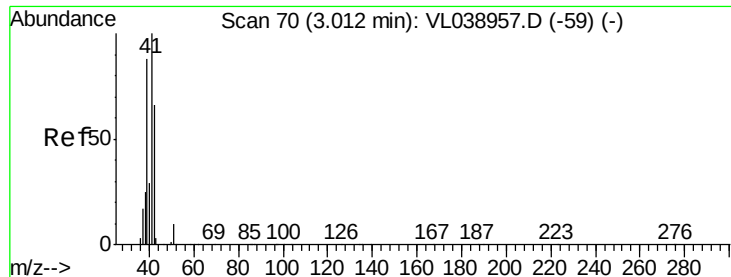
Tgt Ion: 85 Resp: 440159

Ion Ratio Lower Upper

85 100

135 0.4 53.6 80.4#





#9

Propene

Concen: 4.701 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: SV2

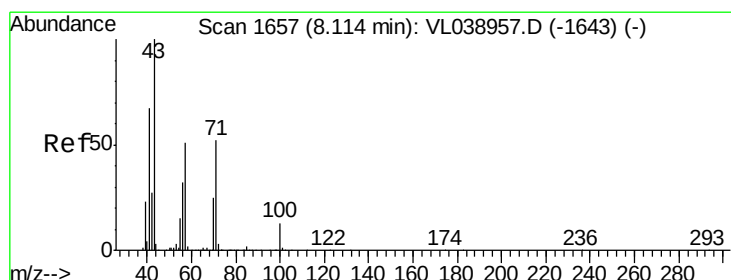
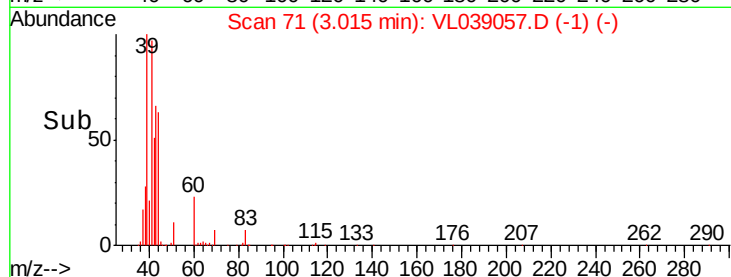
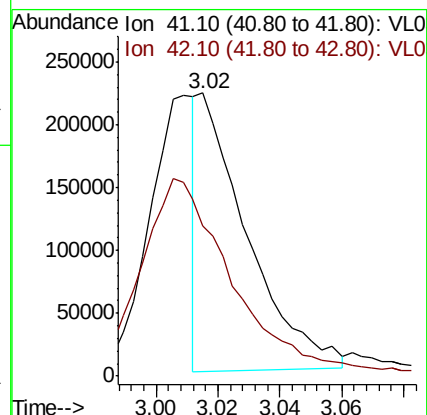
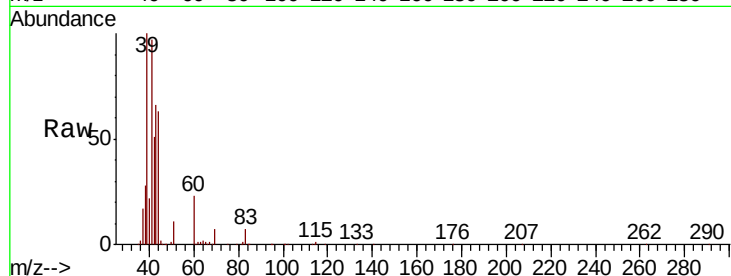
Acq: 14 May 2022 4:30

Tot Ion: 41 Resp: 240558

Ion Ratio Lower Upper

41 100

42 0.0 58.3 87.5#



#10

Heptane

Concen: 2.268 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL039057.D

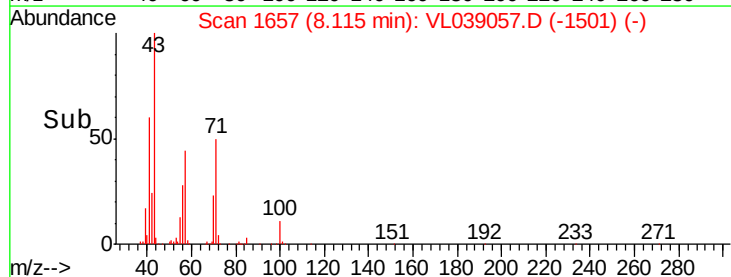
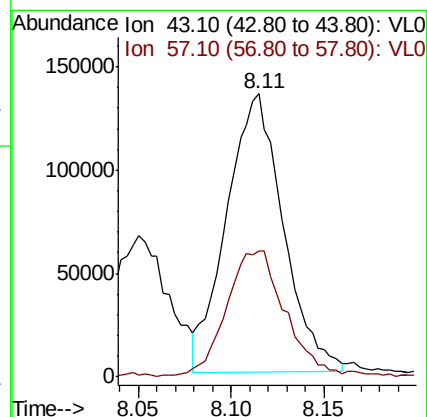
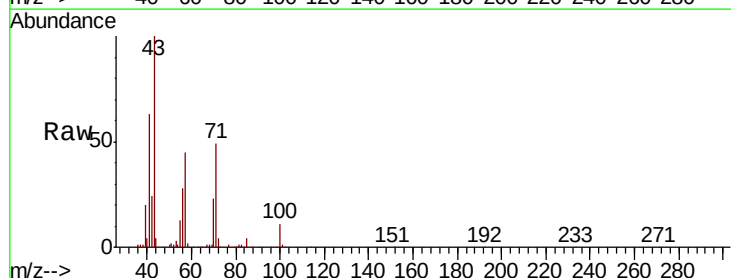
Acq: 14 May 2022 4:36

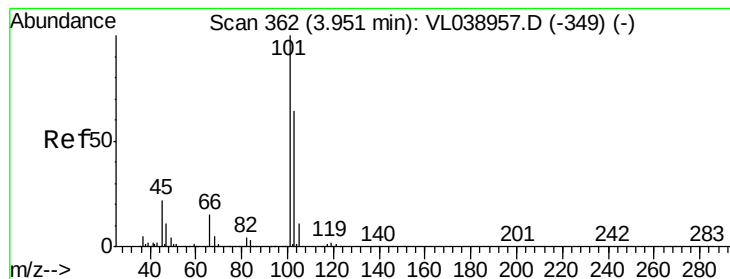
Tgt Ion: 43 Resp: 284727

Ion Ratio Lower Upper

43 100

57 47.3 40.5 60.7





#11

Trichlorofluoromethane

Concen: 0.310 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

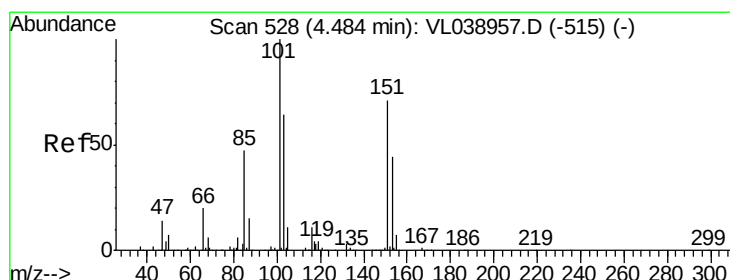
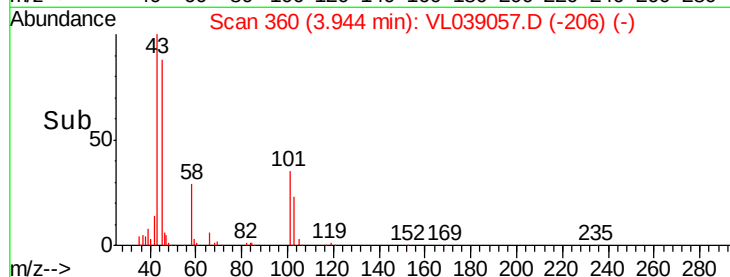
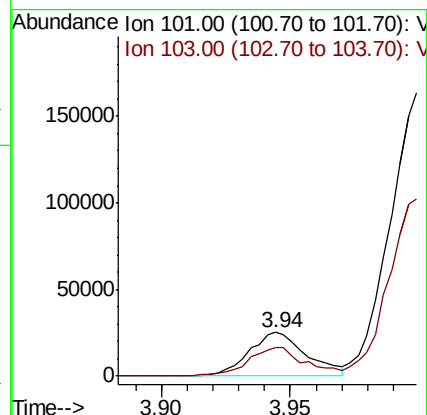
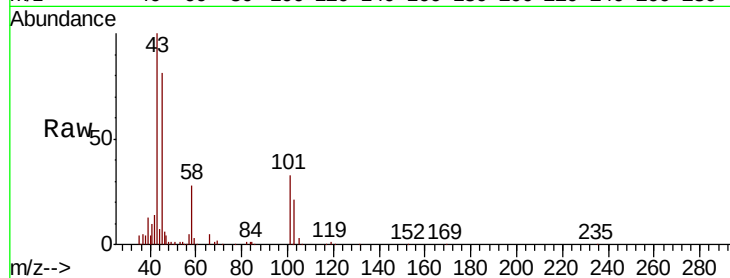
Acq: 14 May 2022 4:30

Tot Ion:101 Resp: 39351

Ion Ratio Lower Upper

101 100

103 62.6 51.5 77.3



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.042 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.01 min

Lab File: VL039057.D

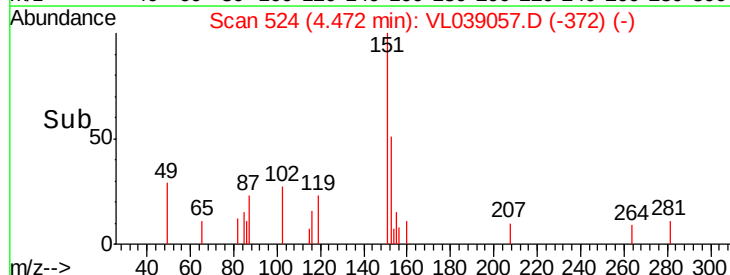
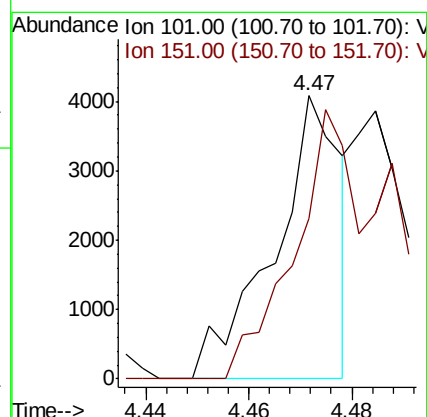
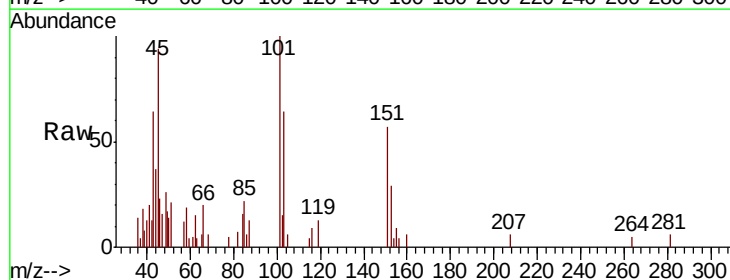
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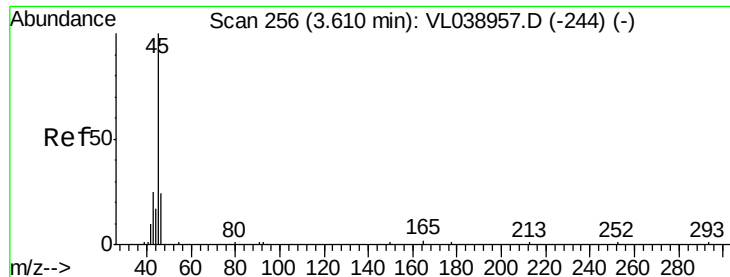
Tgt Ion:101 Resp: 3654

Ion Ratio Lower Upper

101 100

151 157.6 55.4 83.0#





#13

Ethanol

Concen: 221.356 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

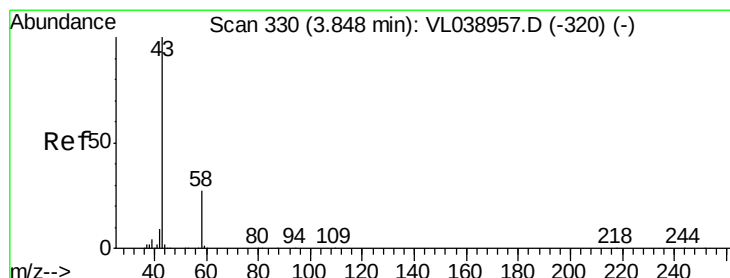
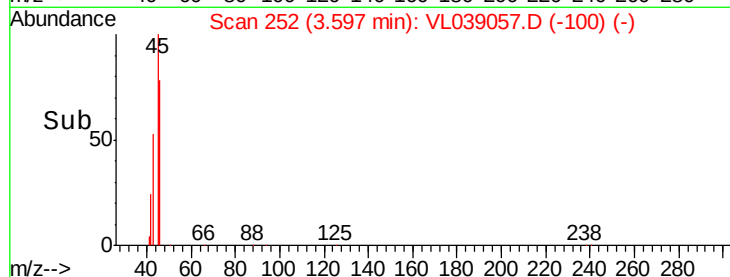
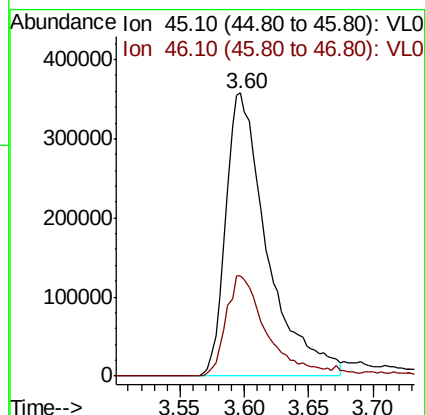
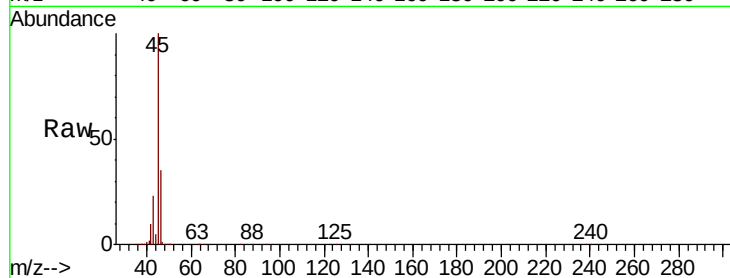
Acq: 14 May 2022 4:30

Tot Ion: 45 Resp: 801662

Ion Ratio Lower Upper

45 100

46 36.0 18.0 72.2



#15

Acetone

Concen: 74.579 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL039057.D

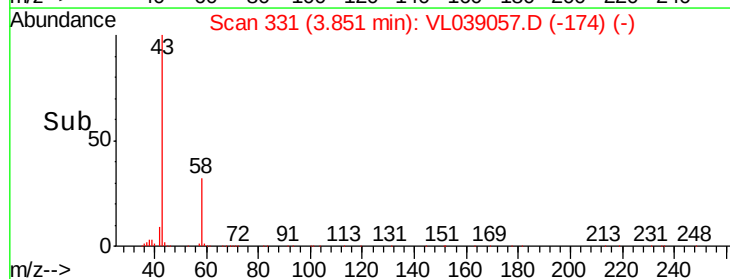
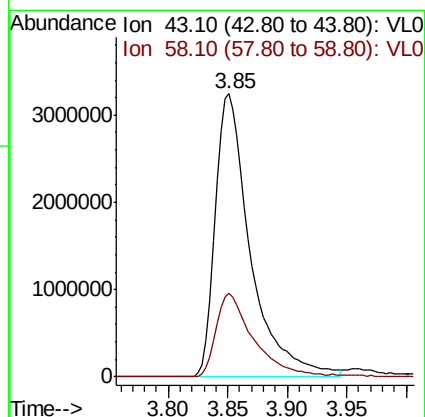
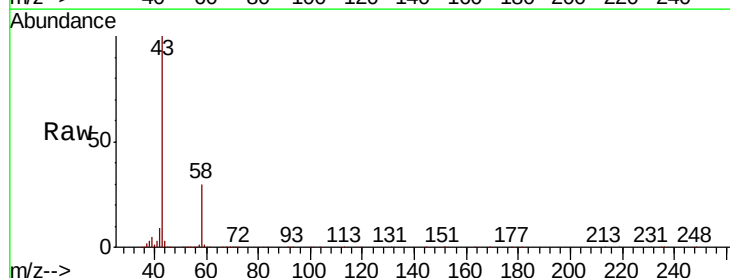
Acq: 14 May 2022 4:36

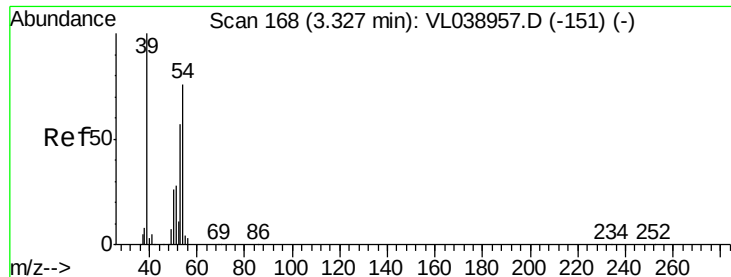
Tgt Ion: 43 Resp: 6643772

Ion Ratio Lower Upper

43 100

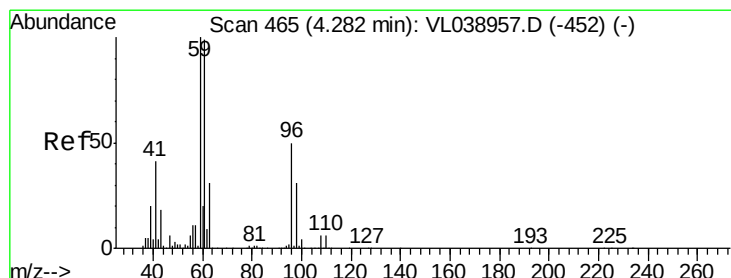
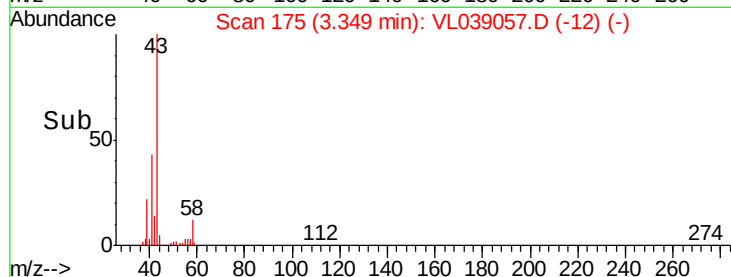
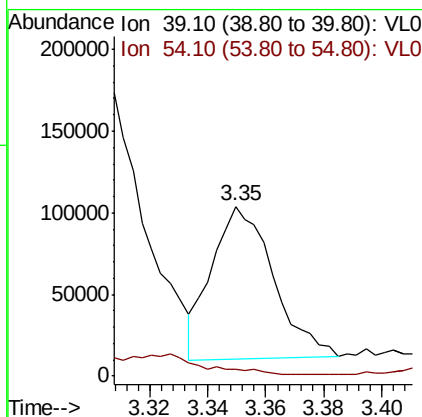
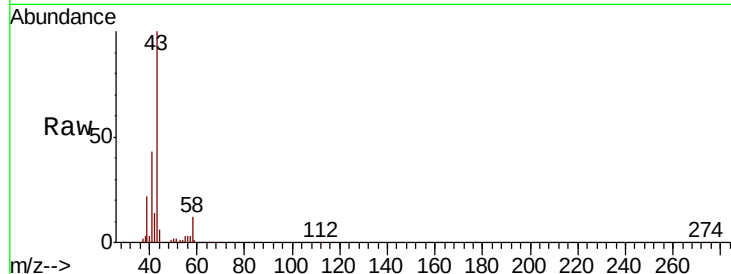
58 32.4 21.3 31.9#





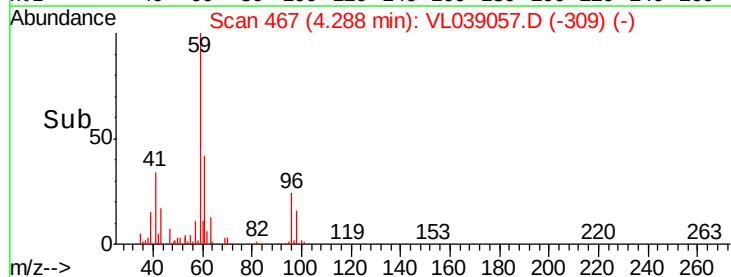
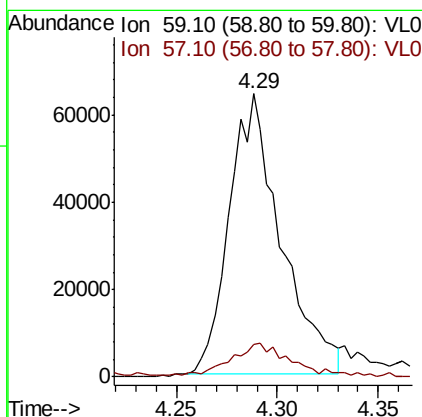
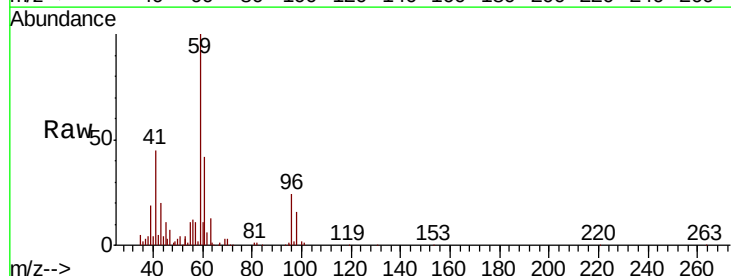
#16
 1,3-Butadiene
 Concen: 2.707 ppbv
 RT: 3.35
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2
 Acq: 14 May 2022 4:30

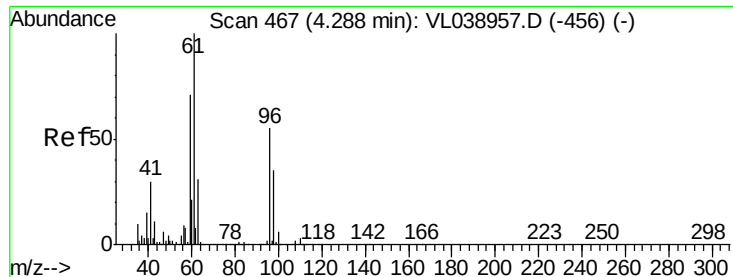
Tot Ion: 39 Resp: 138569
 Ion Ratio Lower Upper
 39 100
 54 25.6 65.2 97.8#



#17
 tert-Butyl alcohol
 Concen: 1.684 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.01 min
 Lab File: VL039057.D
 Acq: 14 May 2022 4:36

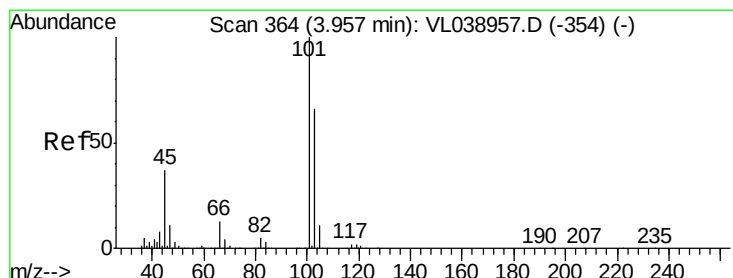
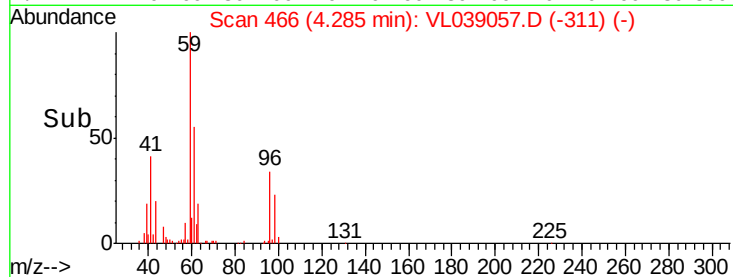
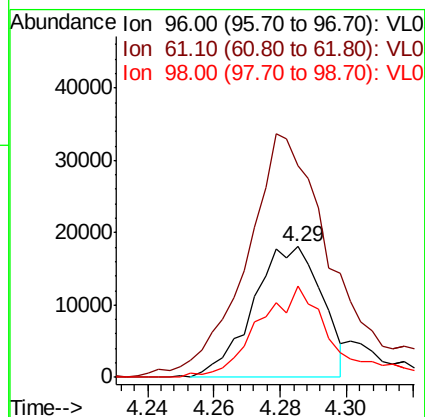
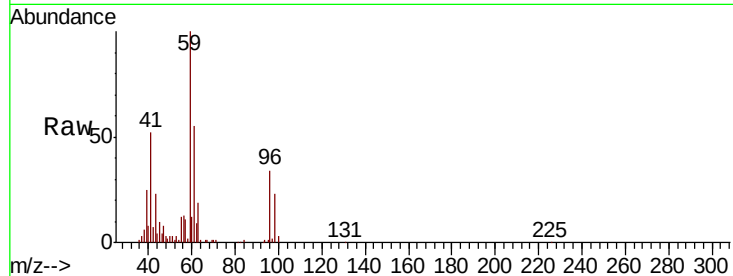
Tgt Ion: 59 Resp: 115327
 Ion Ratio Lower Upper
 59 100
 57 13.6 9.2 13.8





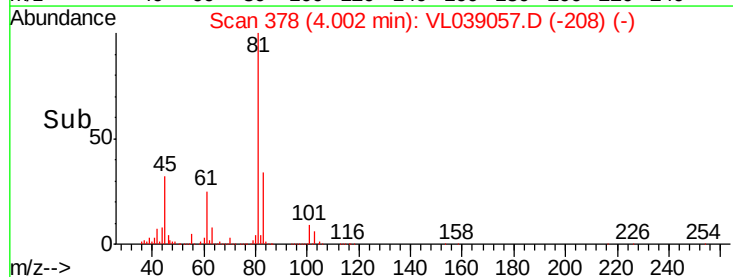
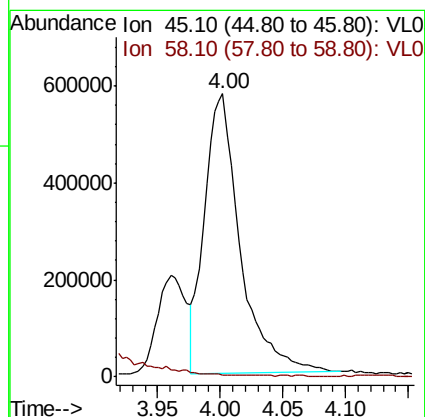
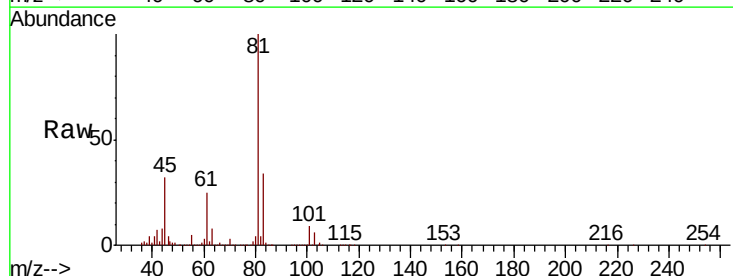
#18
 1,1-Dichloroethene
 Concen: 0.696 ppbv
 RT: 4.29
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SV2
 Acq: 14 May 2022 4:30

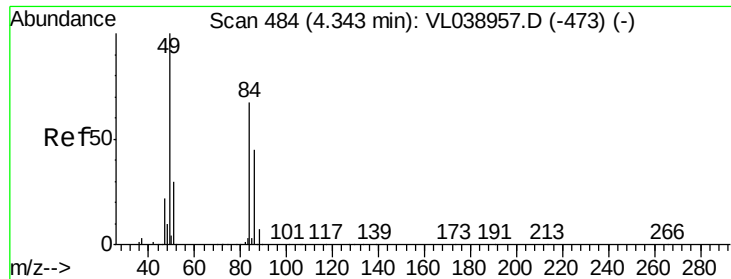
Tot Ion	96	Resp	26203
Ion	Ratio	Lower	Upper
96	100		
61	149.0	146.3	219.5
98	66.7	50.6	75.8



#19
 Isopropyl Alcohol
 Concen: 26.797 ppbv
 RT: 4.00 min Scan# 378
 Delta R.T.: 0.05 min
 Lab File: VL039057.D
 Acq: 14 May 2022 4:36

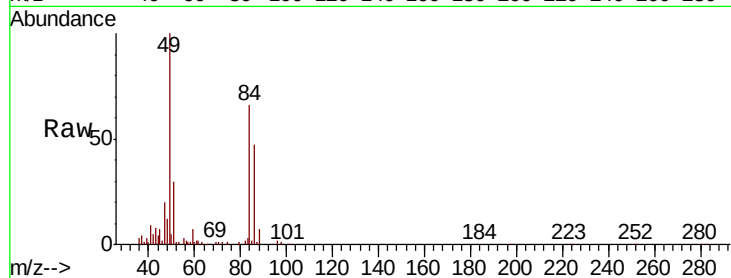
Tgt Ion	45	Resp	1135023
Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.4	2.2#



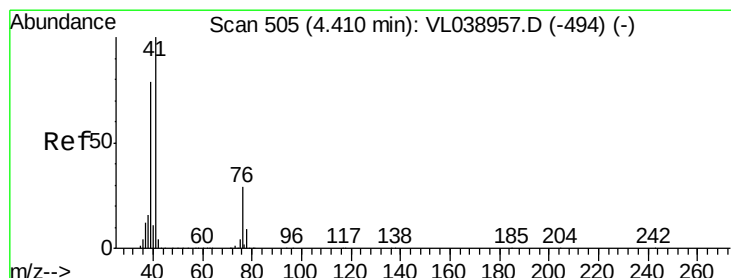
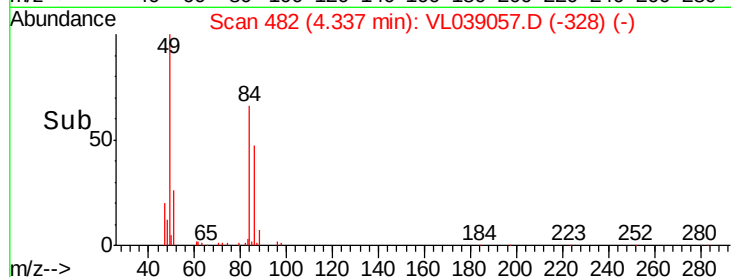
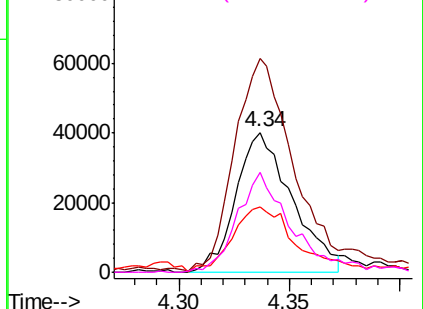


#20
Methvlene Chloride
Concen: 2.123 ppbv
RT: 4.34
Instrument: MSVOA.L
Delta R.T.:
Lab File: ClientSampleId :
SV2
Acq: 14 May 2022 4:30

Tot Ion:	84	Resp:	71264
Ion	Ratio	Lower	Upper
84	100		
49	151.4	119.9	179.9
51	47.6	35.7	53.5
86	71.2	53.8	80.6

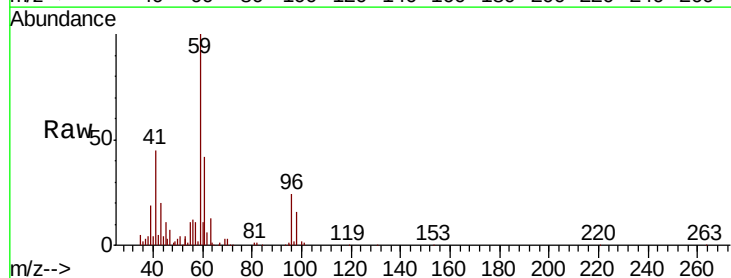


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

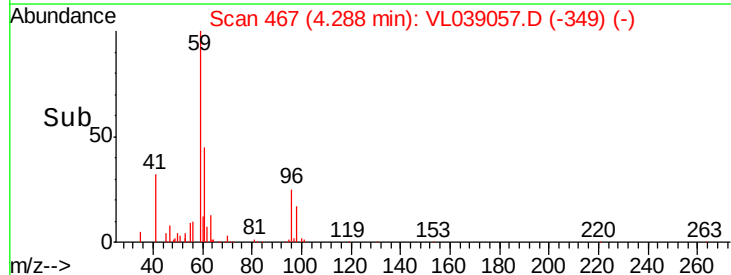
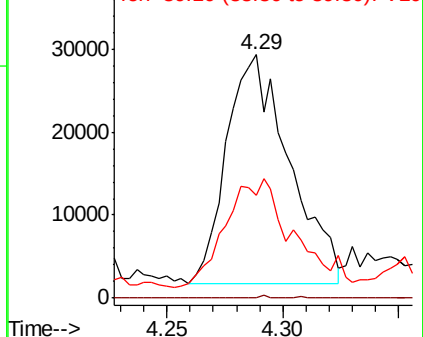


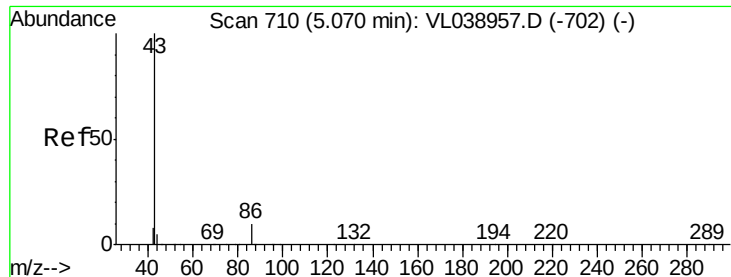
#21
Allyl Chloride
Concen: 0.850 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.12 min
Lab File: VL039057.D
Acq: 14 May 2022 4:36

Tgt Ion:	41	Resp:	51593
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.4#
39	48.3	63.8	95.8#



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





#23

Vinyl Acetate

Concen: 10.347 ppbv

RT: 5.07 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 14 May 2022 4:30

Tot Ion: 43 Resp: 729333

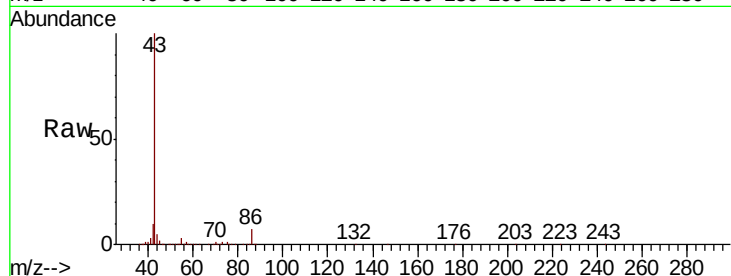
Ion Ratio Lower Upper

43 100

86 7.0 6.6 9.8

42 10.0 8.1 12.1

44 4.1 3.5 5.3

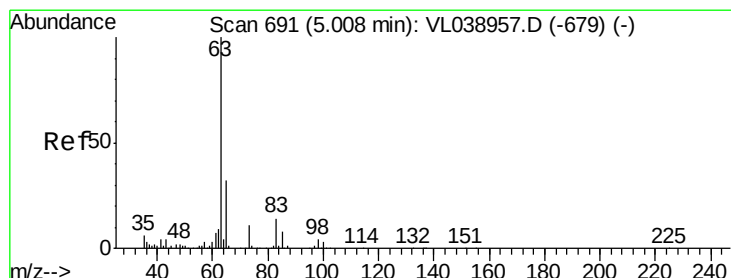
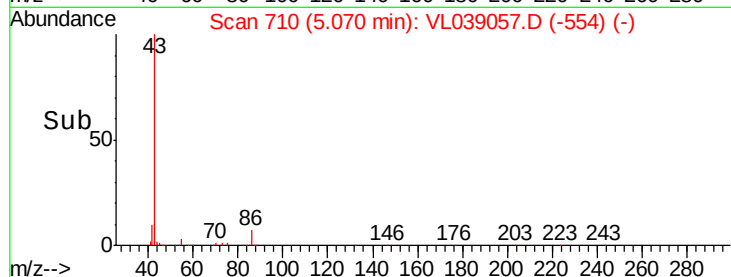
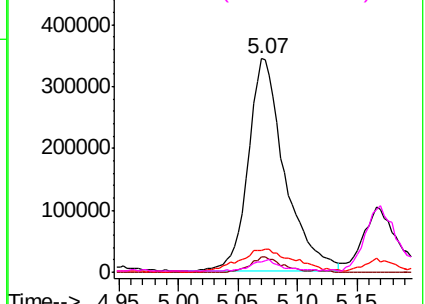


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 0.093 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL039057.D

Acq: 14 May 2022 4:36

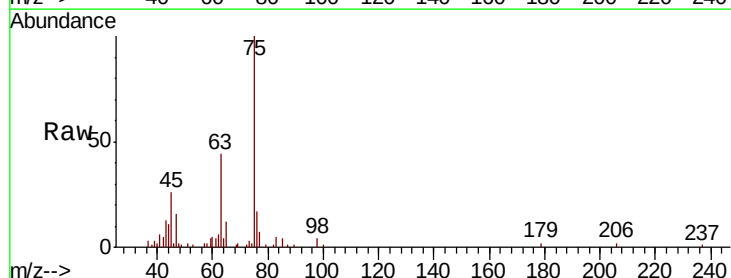
Tgt Ion: 63 Resp: 7562

Ion Ratio Lower Upper

63 100

98 6.7 2.1 6.2#

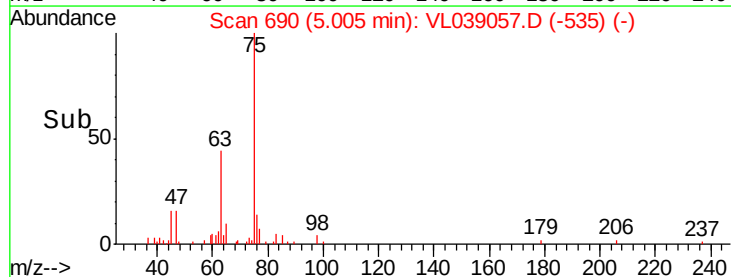
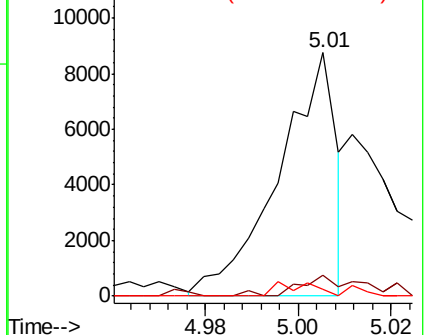
100 2.6 1.4 4.2

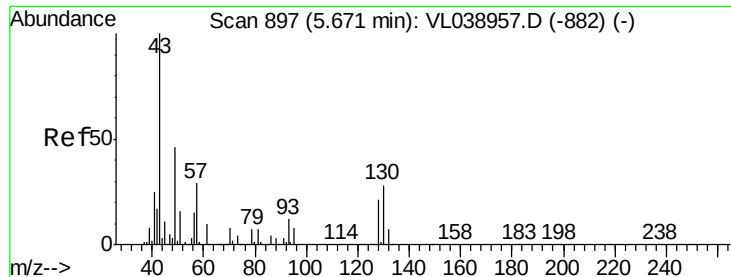


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

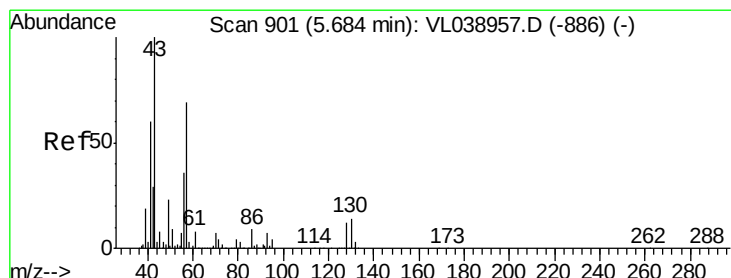
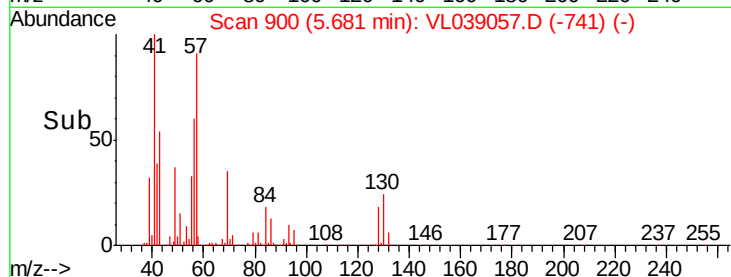
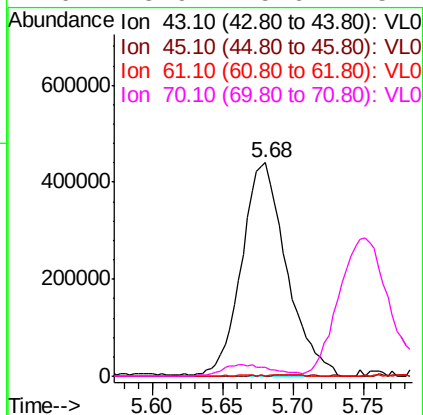
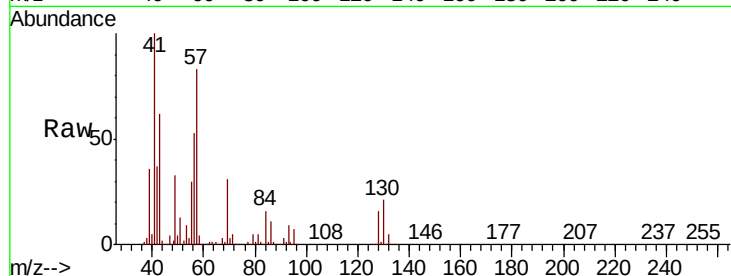
Ion 100.00 (99.70 to 100.70): VL0





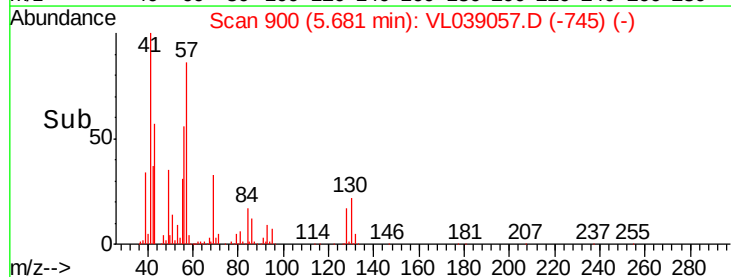
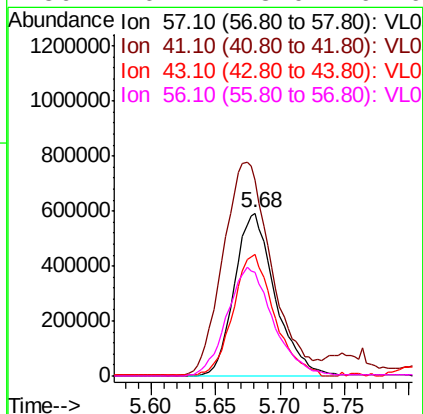
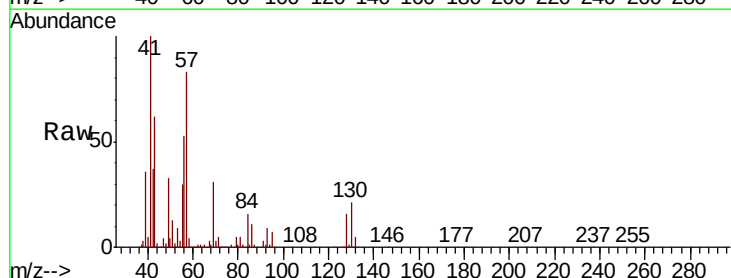
#25
Ethyl Acetate
Concen: 4.617 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV2
Acq: 14 May 2022 4:30

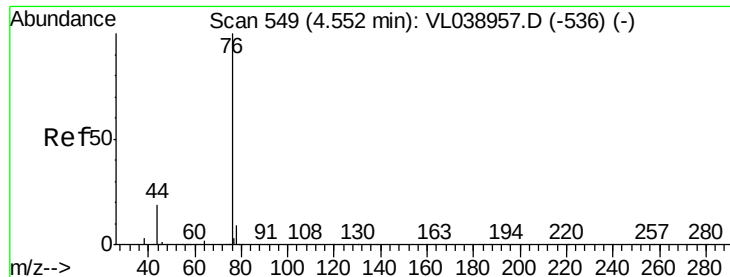
Tot Ion:	43	Resp:	984351
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.1	12.1#
61	0.8	7.8	11.6#
70	5.9	5.6	8.4



#26
Hexane
Concen: 13.663 ppbv
RT: 5.68 min Scan# 900
Delta R.T.: -0.00 min
Lab File: VL039057.D
Acq: 14 May 2022 4:36

Tgt Ion:	57	Resp:	1294434
Ion	Ratio	Lower	Upper
57	100		
41	156.8	75.2	112.8#
43	76.0	190.8	286.2#
56	76.4	43.0	64.6#





#27

Carbon Disulfide

Concen: 3.570 ppbv

RT: 4.54 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV2

Acq: 14 May 2022 4:30

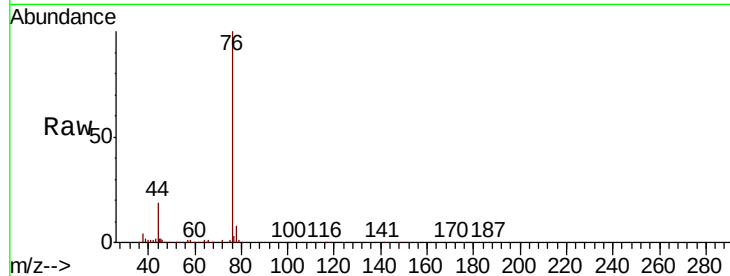
Tot Ion: 76 Resp: 321298

Ion Ratio Lower Upper

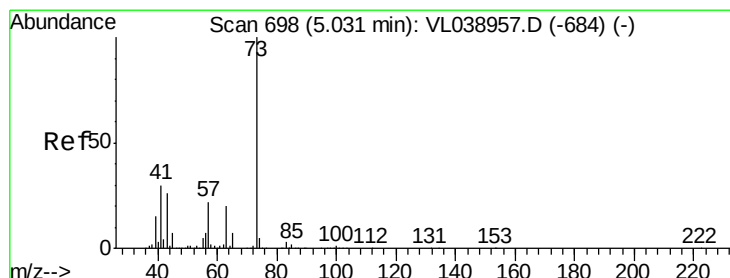
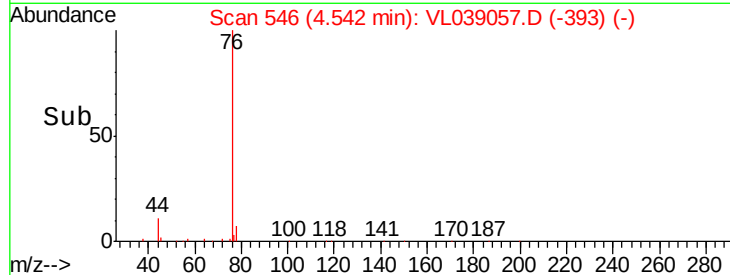
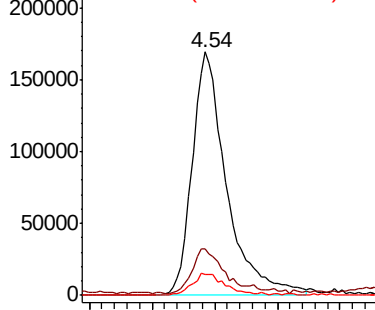
76 100

44 18.6 15.3 22.9

78 9.5 8.2 12.2



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.219 ppbv

RT: 5.03 min Scan# 699

Delta R.T. 0.00 min

Lab File: VL039057.D

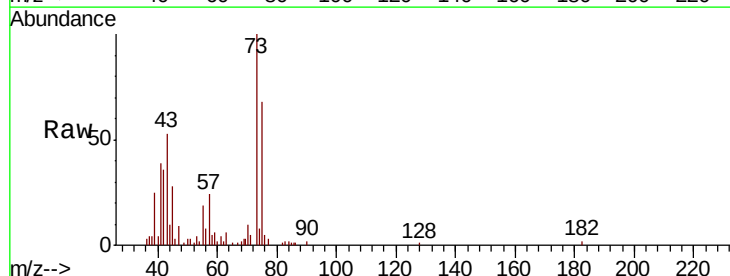
Acq: 14 May 2022 4:36

Tgt Ion: 73 Resp: 15790

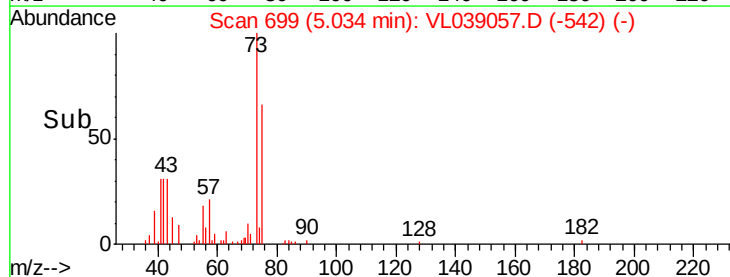
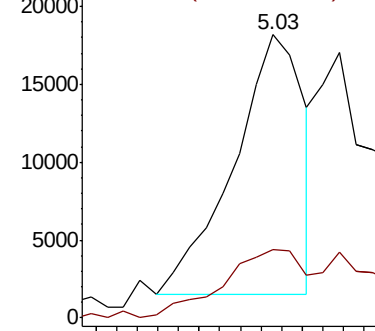
Ion Ratio Lower Upper

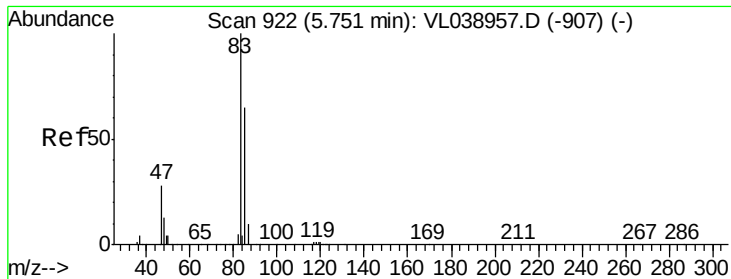
73 100

57 64.6 18.8 28.2#



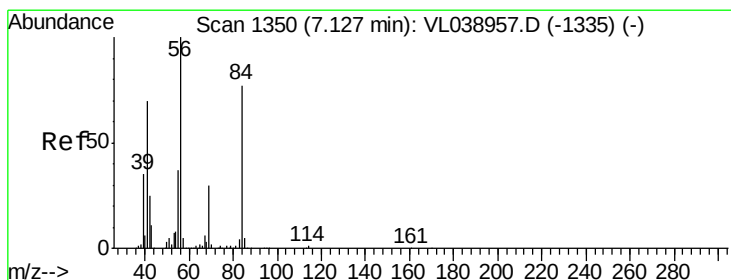
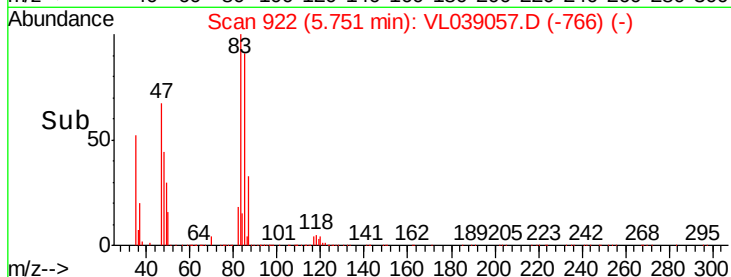
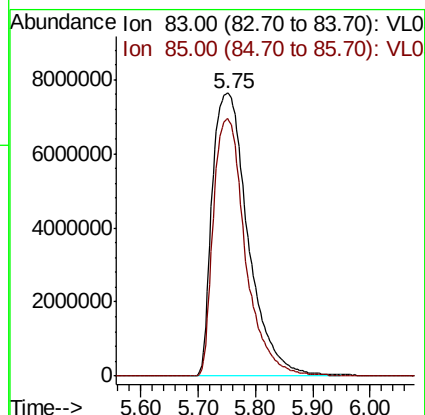
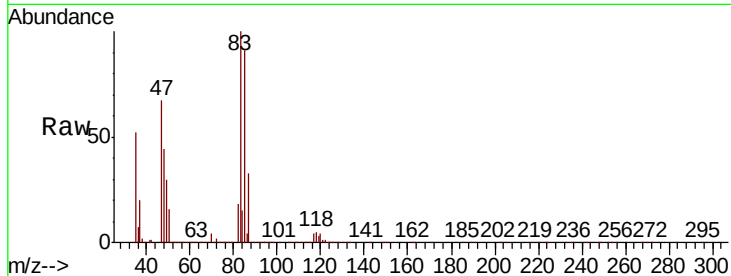
Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





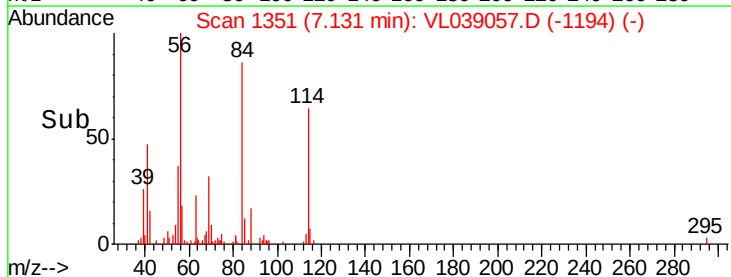
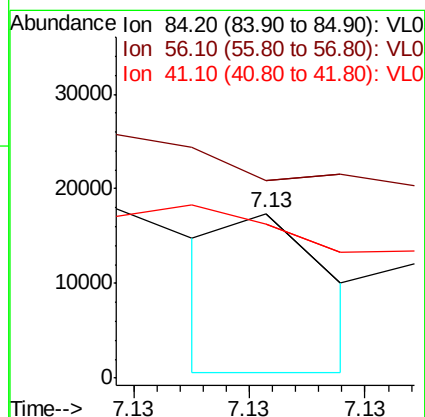
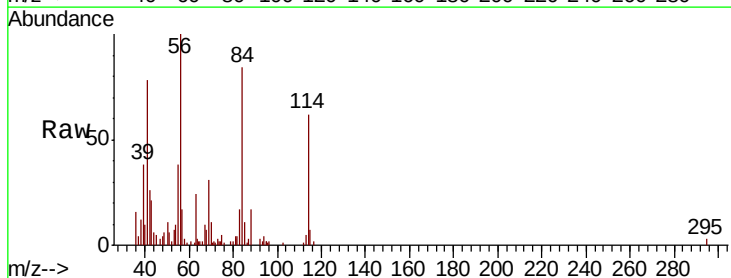
#29
Chloroform
Concen: 217.225 ppbv
RT: 5.75
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 4:30

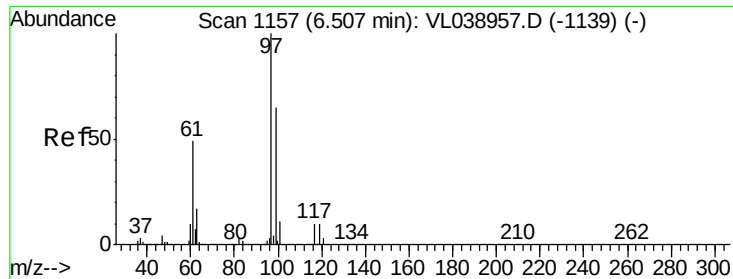
Tot Ion: 83 Resp: 33295113
Ion Ratio Lower Upper
83 100
85 91.1 51.8 77.6#



#30
Cyclohexane
Concen: 0.064 ppbv
RT: 7.13 min Scan# 1351
Delta R.T.: 0.00 min
Lab File: VL039057.D
Acq: 14 May 2022 4:36

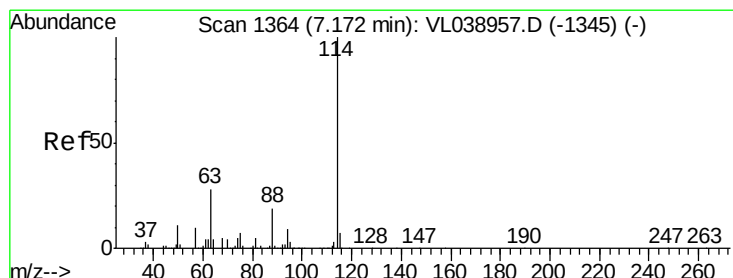
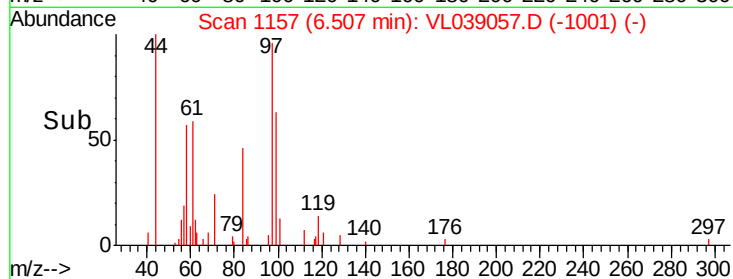
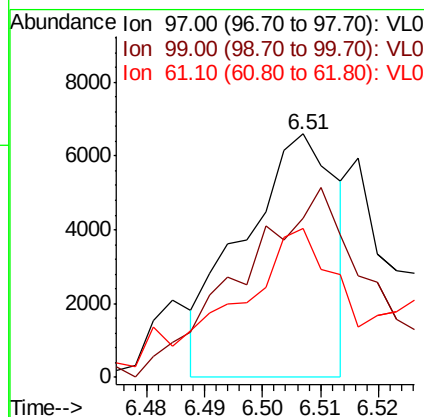
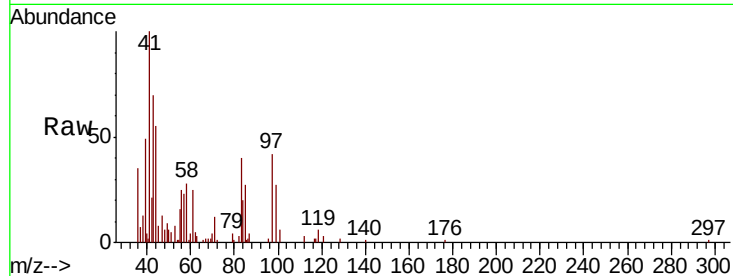
Tgt Ion: 84 Resp: 5050
Ion Ratio Lower Upper
84 100
56 0.0 115.3 172.9#
41 0.0 72.0 108.0#





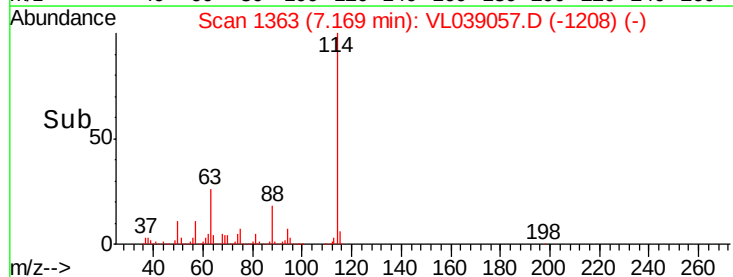
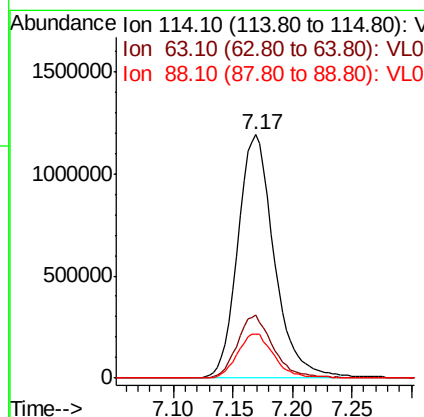
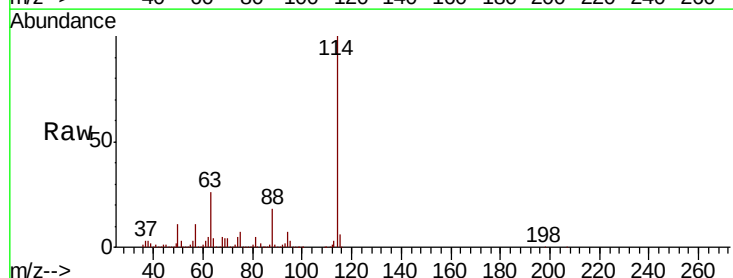
#32
 1,1,1-Trichloroethane
 Concen: 0.048 ppbv
 RT: 6.51
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2
 Acq: 14 May 2022 4:30

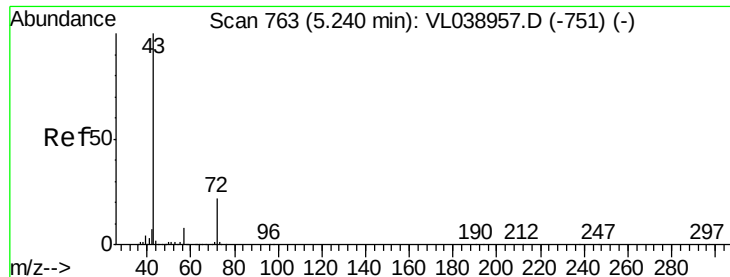
Tot Ion	97	Resp	7414
Ion Ratio	Lower	Upper	
97	100		
99	121.0	51.9	77.9#
61	98.6	40.9	61.3#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL039057.D
 Acq: 14 May 2022 4:36

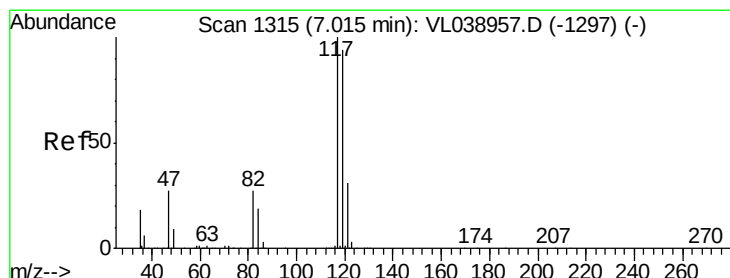
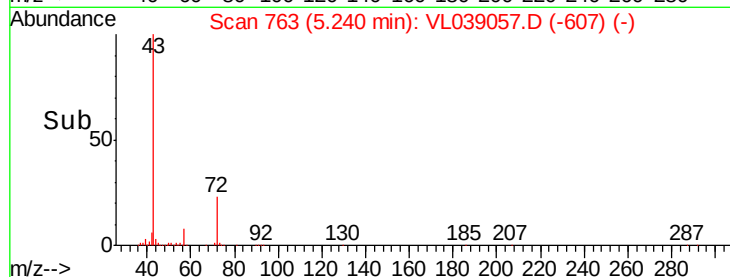
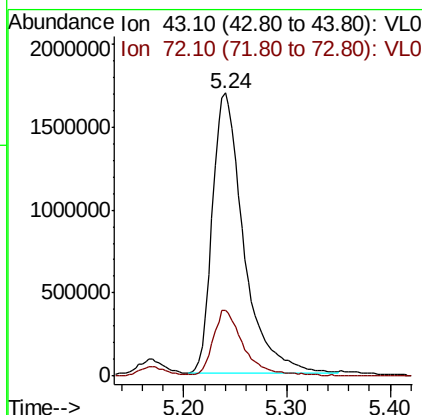
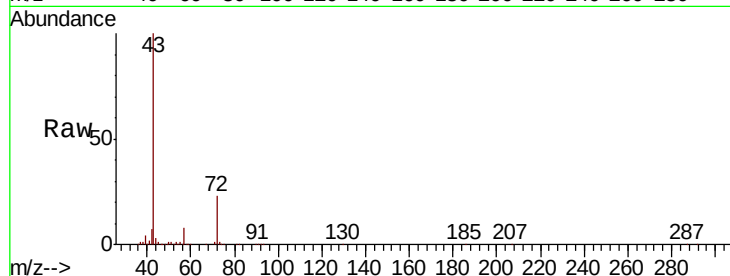
Tgt Ion	114	Resp	2522967
Ion Ratio	Lower	Upper	
114	100		
63	25.8	22.6	33.8
88	18.4	15.4	23.0





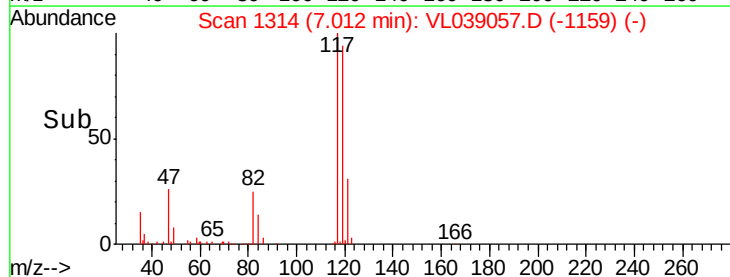
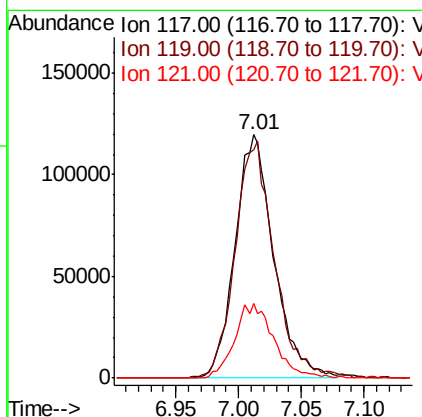
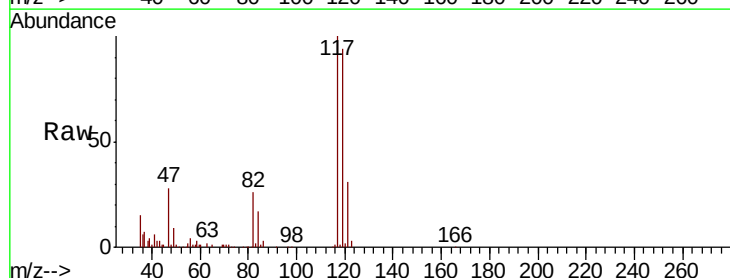
#34
2-Butanone
Concen: 27.775 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2
Acq: 14 May 2022 4:30

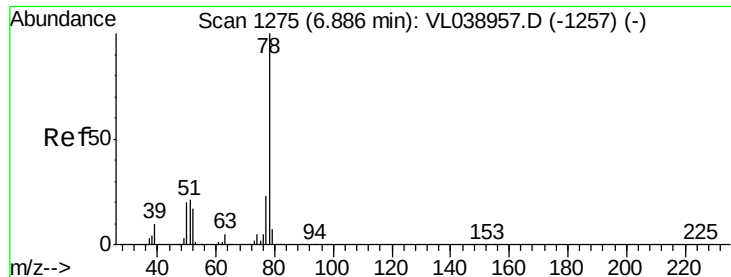
Tot Ion: 43 Resp: 3575000
Ion Ratio Lower Upper
43 100
72 23.5 17.8 26.6



#35
Carbon Tetrachloride
Concen: 1.548 ppbv
RT: 7.01 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VL039057.D
Acq: 14 May 2022 4:36

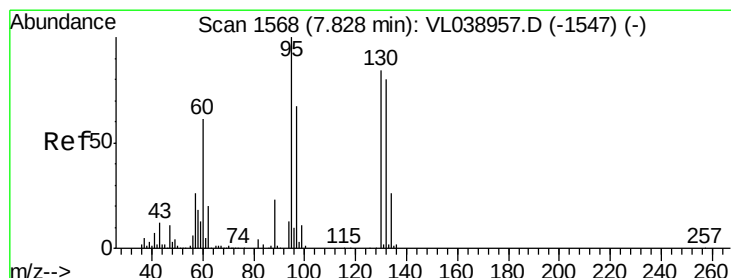
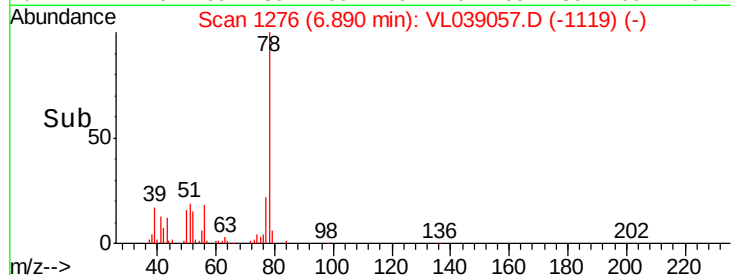
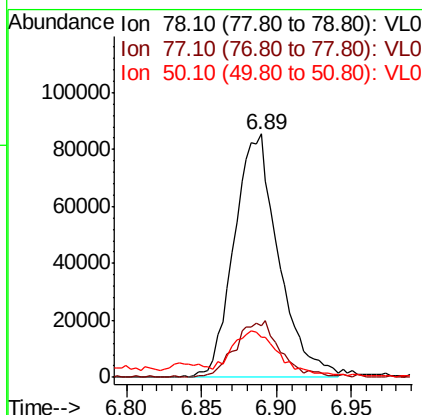
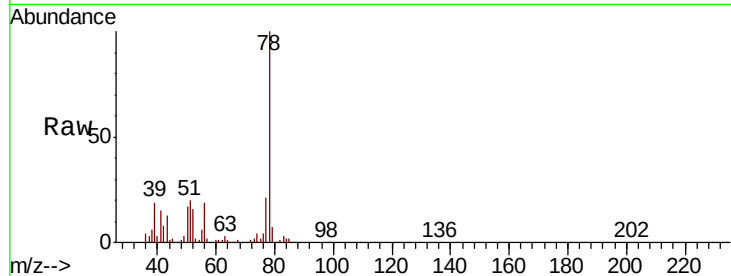
Tgt Ion: 117 Resp: 257284
Ion Ratio Lower Upper
117 100
119 93.6 75.2 112.8
121 30.8 24.6 37.0





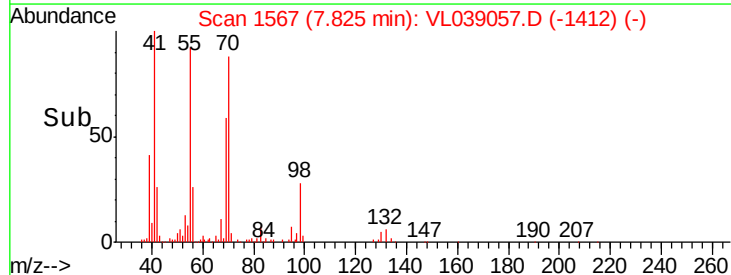
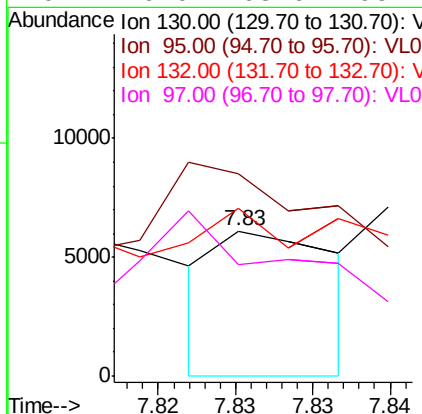
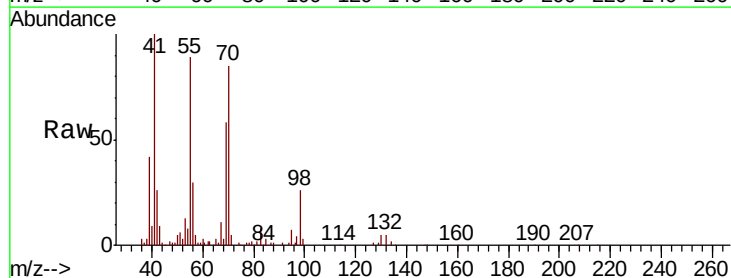
#36
Benzene
Concen: 0.814 ppbv
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SV2
Acq: 14 May 2022 4:30

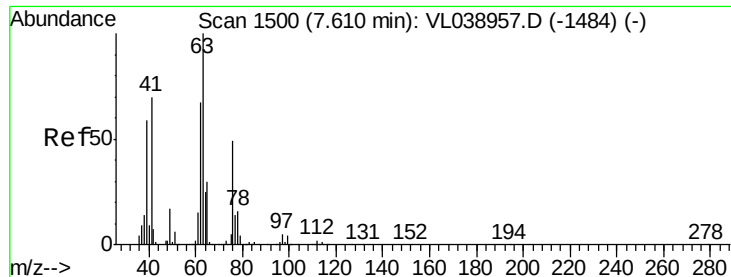
Tot Ion: 78 Resp: 175720
Ion Ratio Lower Upper
78 100
77 21.4 18.6 28.0
50 15.3 15.6 23.4#



#38
Trichloroethene
Concen: 0.034 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VL039057.D
Acq: 14 May 2022 4:36

Tgt Ion: 130 Resp: 3272
Ion Ratio Lower Upper
130 100
95 94.2 94.8 142.2#
132 100.5 75.8 113.8
97 0.0 63.6 95.4#





#39

1,2-Dichloropropane

Concen: 7.636 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 4:30

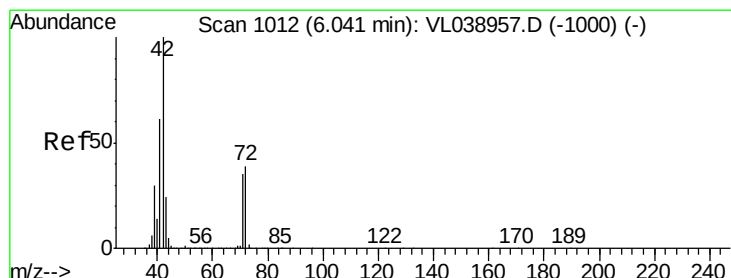
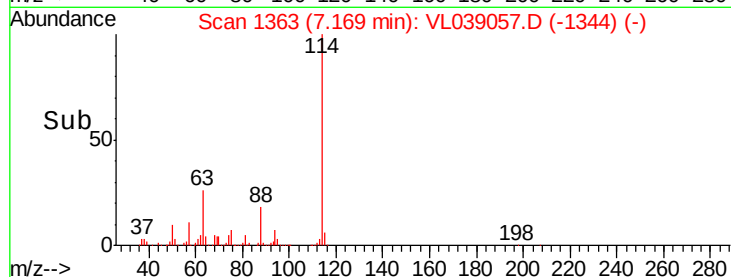
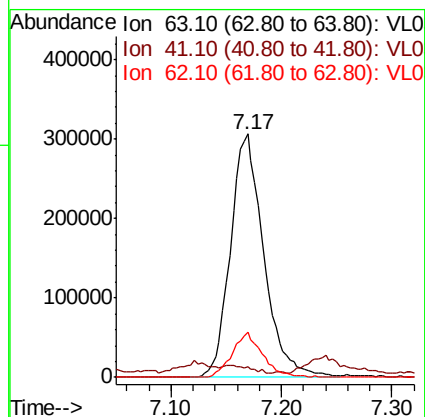
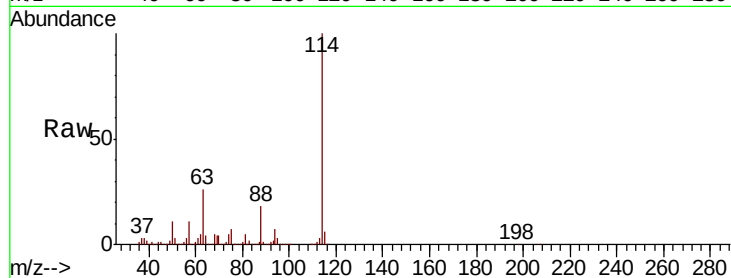
Tot Ion: 63 Resp: 641476

Ion Ratio Lower Upper

63 100

41 0.1 55.9 83.9#

62 18.5 53.8 80.6#



#41

Tetrahydrofuran

Concen: 0.695 ppbv

RT: 5.99 min Scan# 997

Delta R.T. -0.05 min

Lab File: VL039057.D

Acq: 14 May 2022 4:36

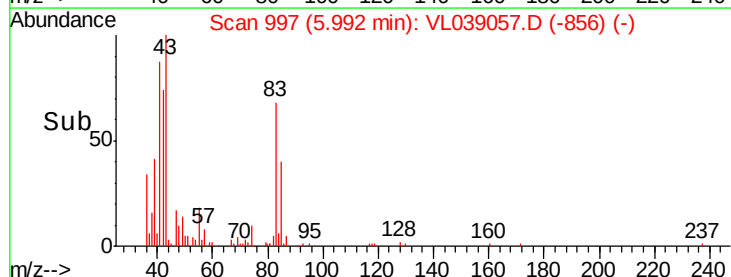
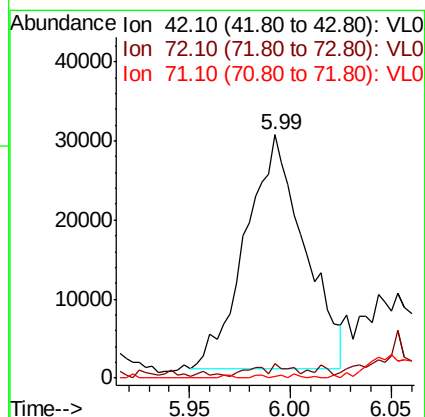
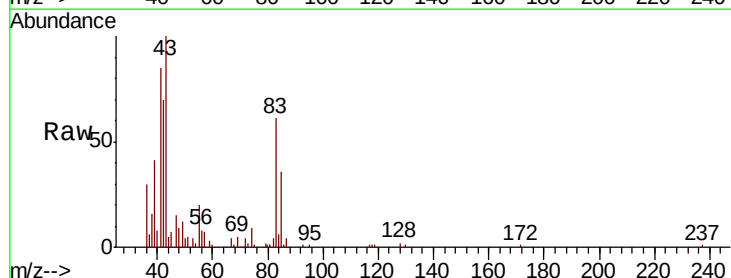
Tgt Ion: 42 Resp: 60155

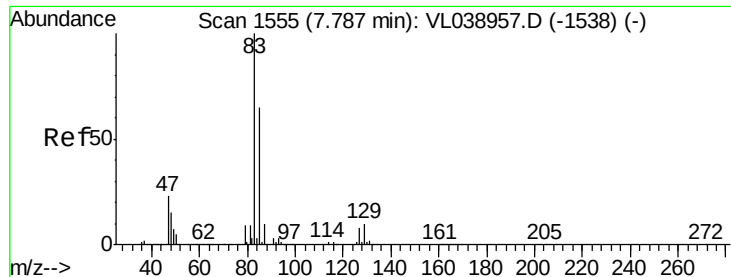
Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.6#

71 11.6 30.6 45.8#





#42

Bromodichloromethane

Concen: 1.098 ppbv

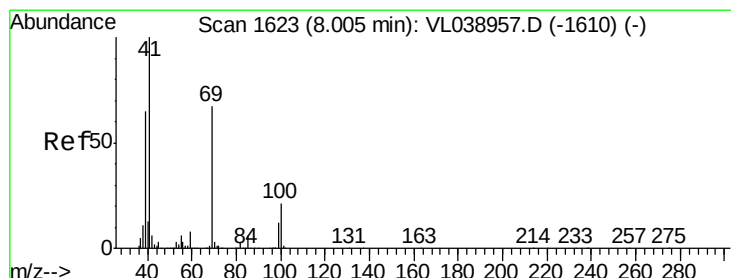
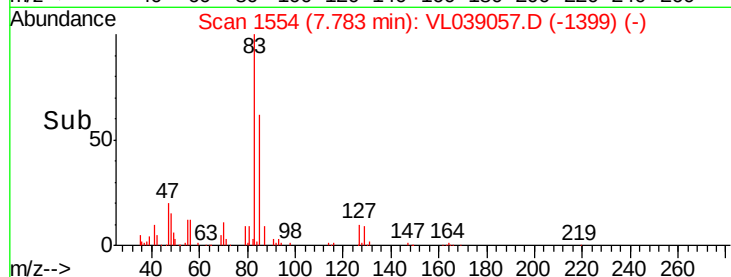
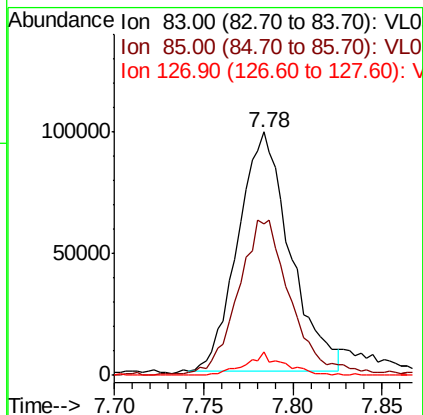
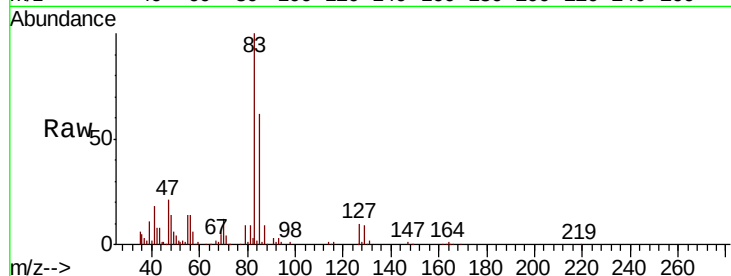
RT: 7.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 4:30

Tot Ion:	83	Resp:	200537
Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.0	78.0
127	9.9	6.0	9.0#



#43

Methyl Methacrylate

Concen: 0.070 ppbv

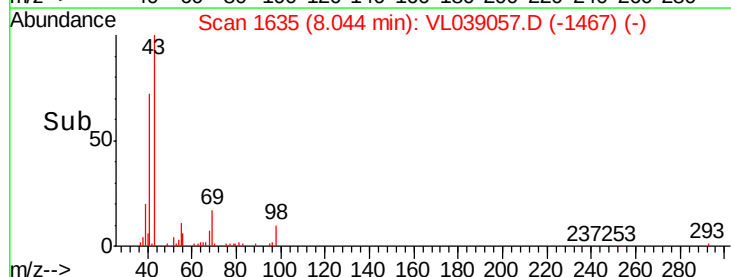
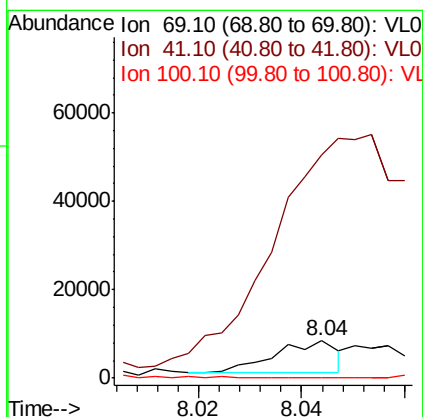
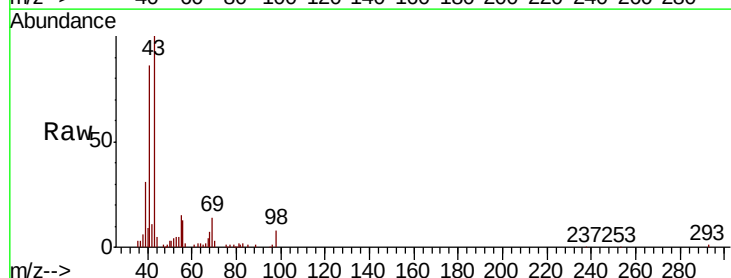
RT: 8.04 min Scan# 1635

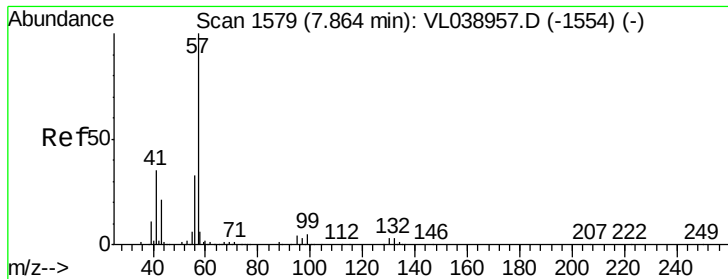
Delta R.T. 0.04 min

Lab File: VL039057.D

Acq: 14 May 2022 4:36

Tgt Ion:	69	Resp:	6142
Ion	Ratio	Lower	Upper
69	100		
41	0.0	121.9	182.9#
100	0.0	24.6	36.8#





#44

2,2,4-Trimethylpentane

Concen: 0.067 ppbv

RT: 7.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 4:30

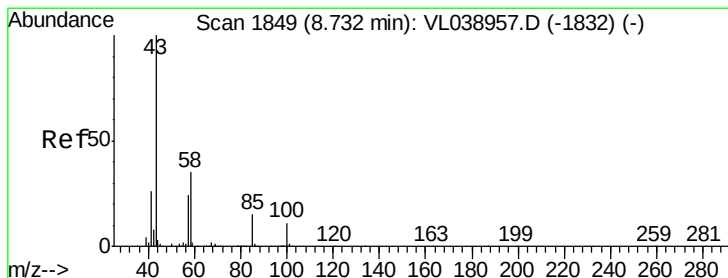
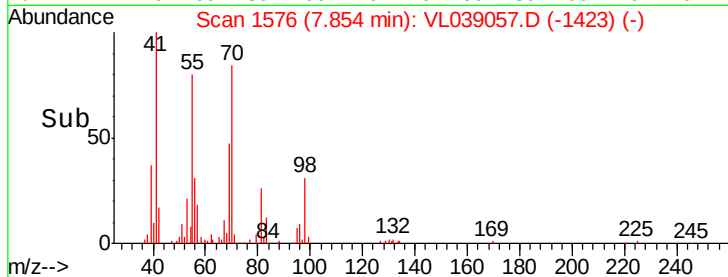
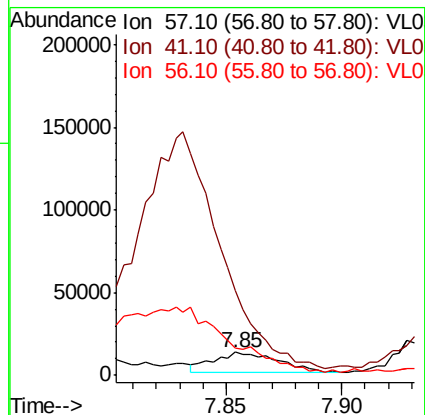
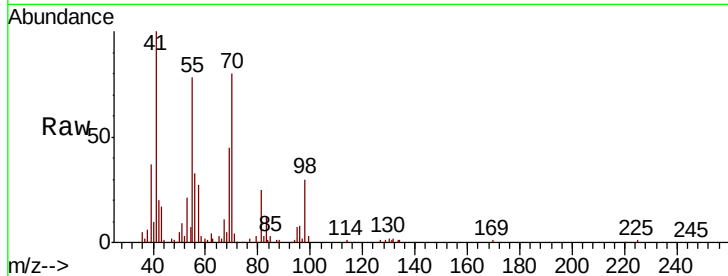
Tot Ion: 57 Resp: 25426

Ion Ratio Lower Upper

57 100

41 0.0 26.3 39.5#

56 0.0 24.6 37.0#



#50

4-Methyl-2-Pentanone

Concen: 0.347 ppbv

RT: 8.74 min Scan# 1850

Delta R.T. 0.00 min

Lab File: VL039057.D

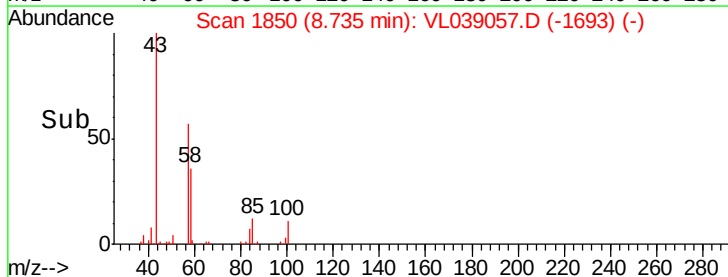
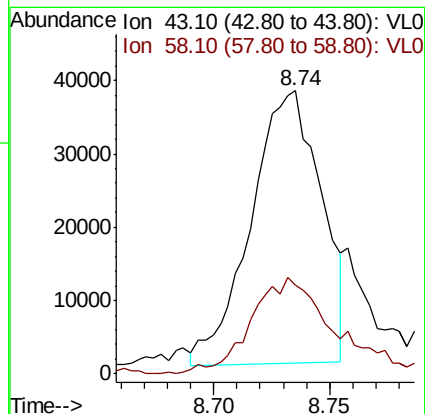
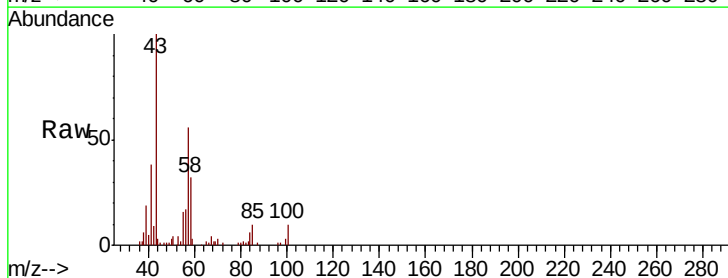
Acq: 14 May 2022 4:36

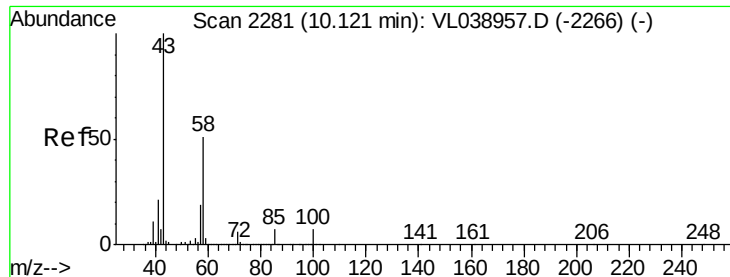
Tgt Ion: 43 Resp: 78348

Ion Ratio Lower Upper

43 100

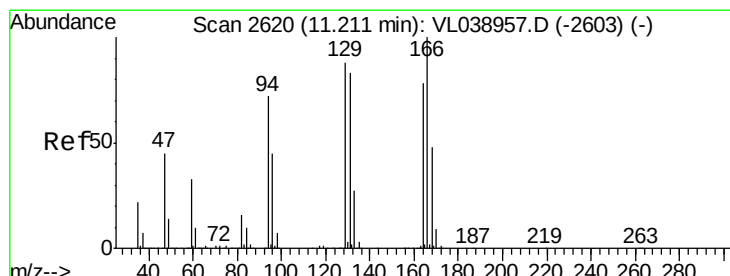
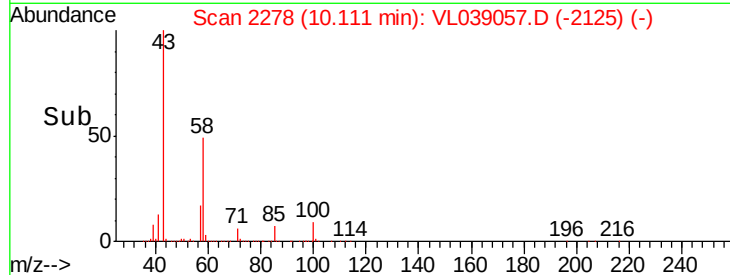
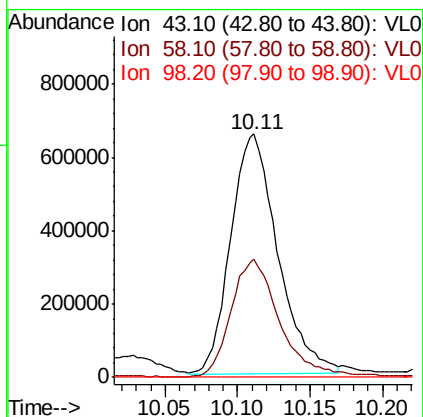
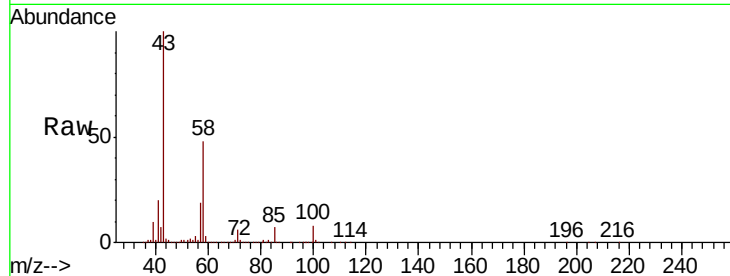
58 47.2 28.4 42.6#





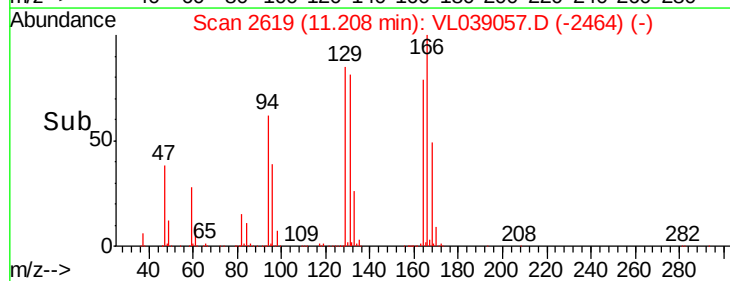
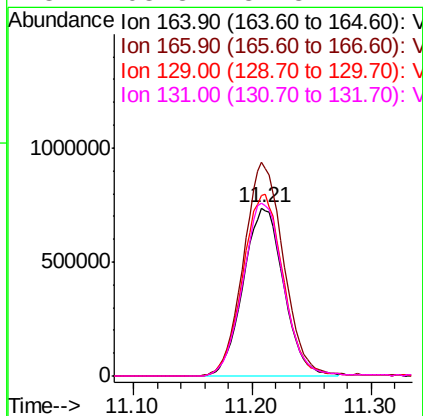
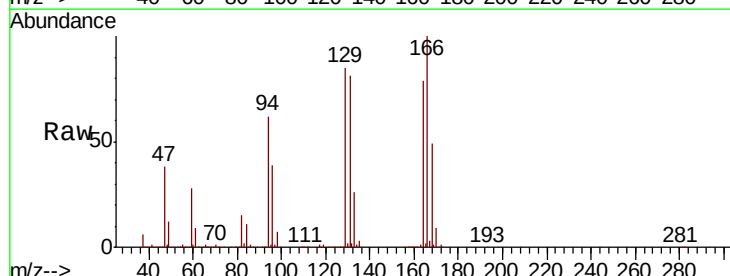
#51
 2-Hexanone
 Concen: 8.974 ppbv
 RT: 10.11 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 4:36

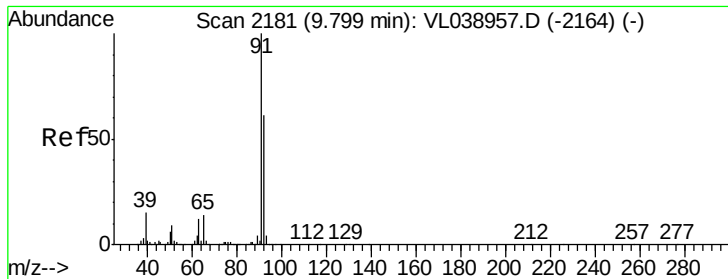
Tot Ion: 43 Resp: 1478299
 Ion Ratio Lower Upper
 43 100
 58 51.5 39.3 58.9
 98 0.1 0.2 0.2#



#52
 Tetrachloroethene
 Concen: 22.462 ppbv
 RT: 11.21 min Scan# 2619
 Delta R.T. -0.00 min
 Lab File: VL039057.D
 Acq: 14 May 2022 4:36

Tgt Ion: 164 Resp: 1733068
 Ion Ratio Lower Upper
 164 100
 166 127.3 102.5 153.7
 129 107.8 90.1 135.1
 131 103.3 84.8 127.2





#53

Toluene

Concen: 1.312 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

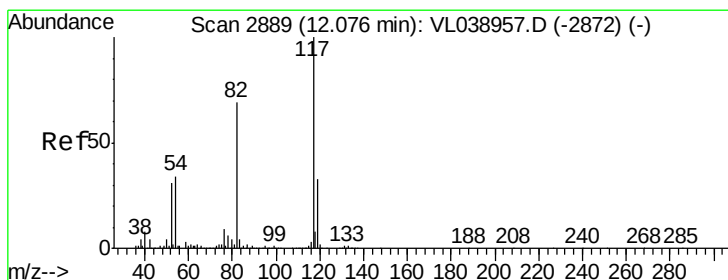
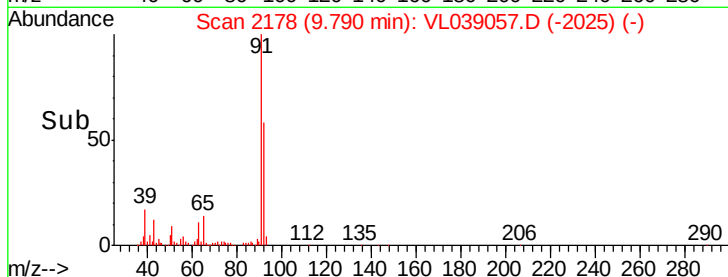
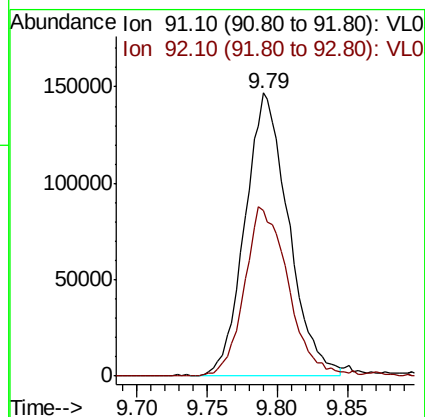
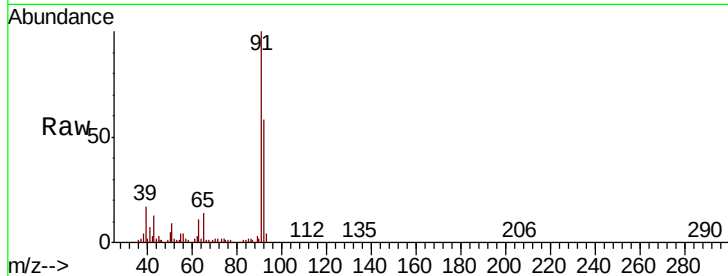
Acq: 14 May 2022 4:30

Tot Ion: 91 Resp: 317416

Ion Ratio Lower Upper

91 100

92 60.9 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL039057.D

Acq: 14 May 2022 4:36

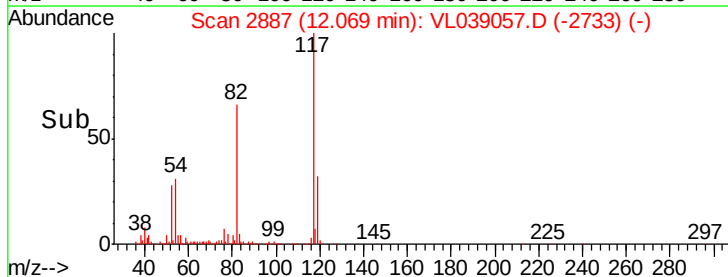
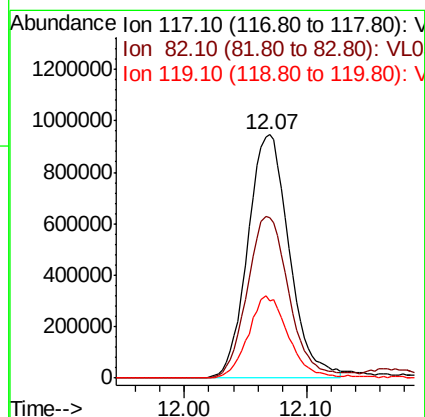
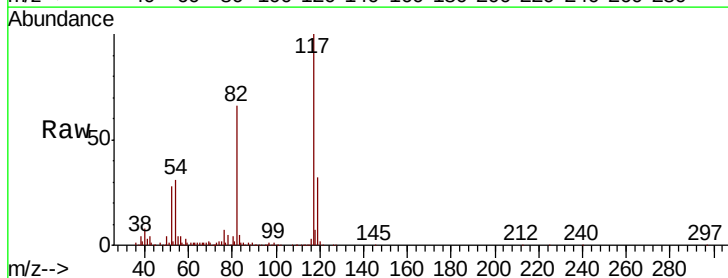
Tgt Ion: 117 Resp: 2218235

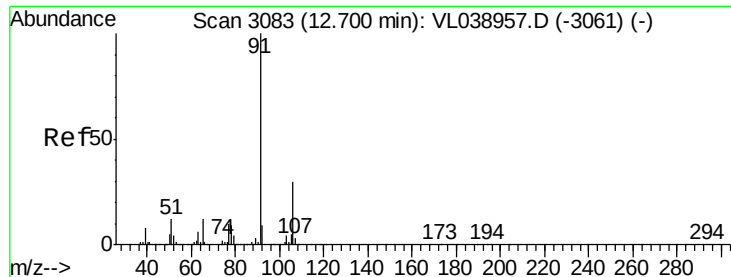
Ion Ratio Lower Upper

117 100

82 67.0 57.0 85.6

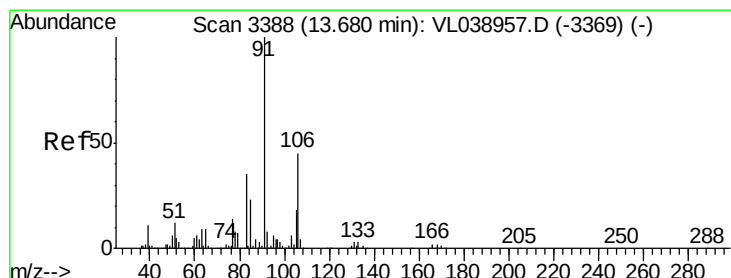
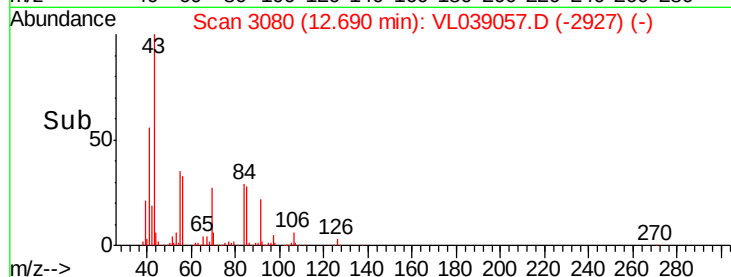
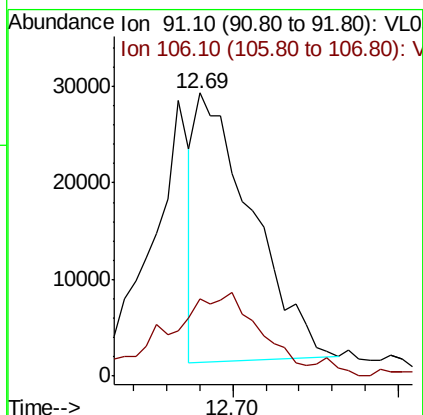
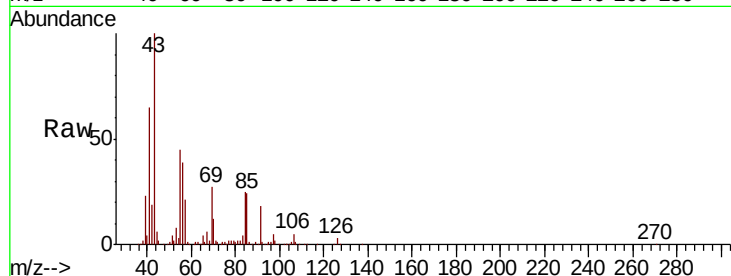
119 33.3 27.2 40.8





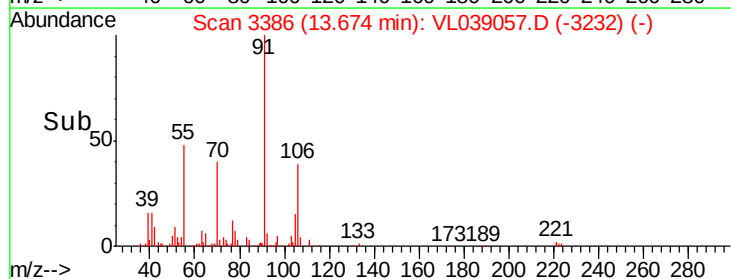
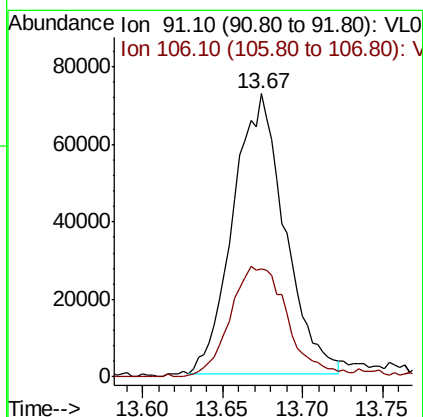
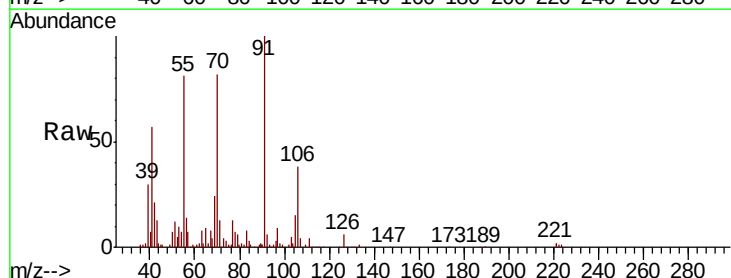
#58
Ethyl Benzene
Concen: 0.102 ppbv
RT: 12.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2
Acq: 14 May 2022 4:30

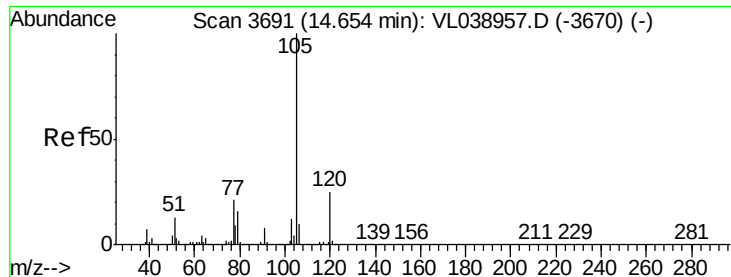
Tot Ion: 91 Resp: 32507
Ion Ratio Lower Upper
91 100
106 27.0 24.2 36.4



#60
o-Xylene
Concen: 0.624 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL039057.D
Acq: 14 May 2022 4:36

Tgt Ion: 91 Resp: 160116
Ion Ratio Lower Upper
91 100
106 45.1 22.2 66.6





#62

Isopropylbenzene

Concen: 0.620 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

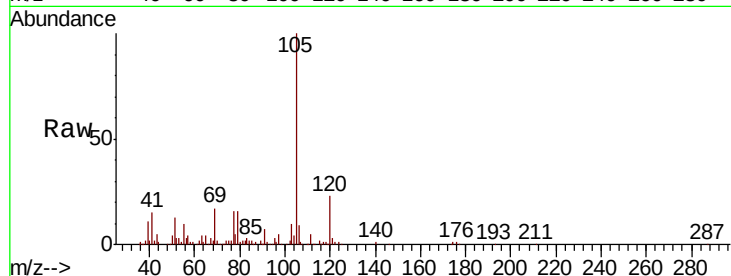
Acq: 14 May 2022 4:30

Tot Ion:105 Resp: 232545

Ion Ratio Lower Upper

105 100

120 25.1 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.65

100000

80000

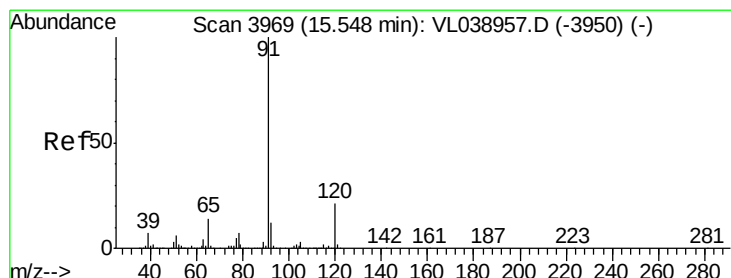
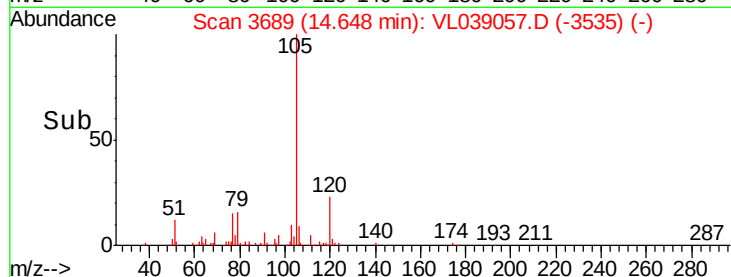
60000

40000

20000

0

Time--> 14.55 14.60 14.65 14.70



#64

n-propylbenzene

Concen: 0.032 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. -0.00 min

Lab File: VL039057.D

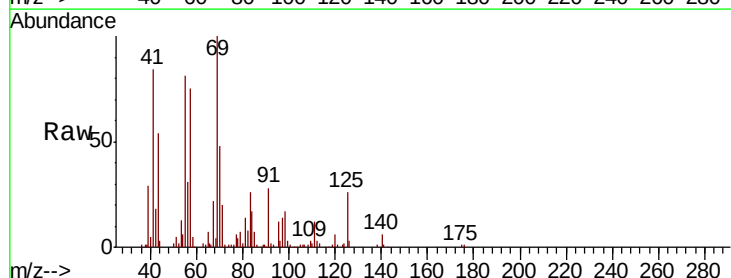
Acq: 14 May 2022 4:36

Tgt Ion:120 Resp: 2937

Ion Ratio Lower Upper

120 100

91 0.0 400.6 601.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

20000

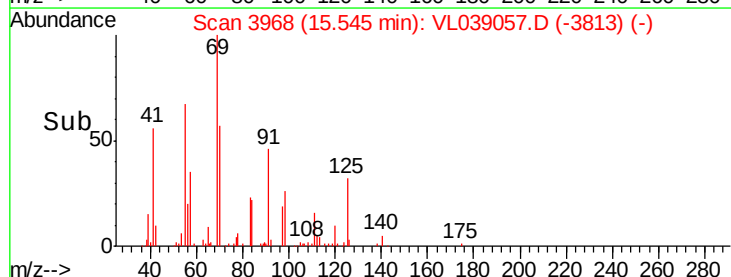
15000

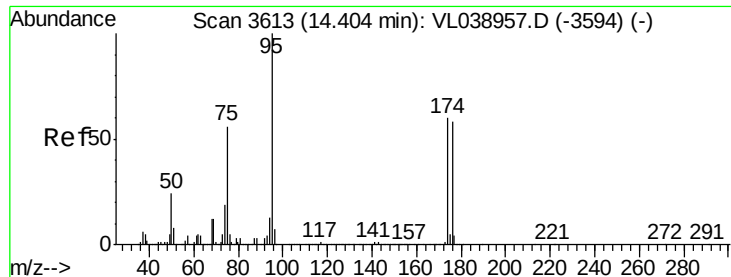
10000

5000

0

Time--> 15.53 15.54 15.55





#68

1-Bromo-4-Fluorobenzene

Concen: 9.852 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 4:30

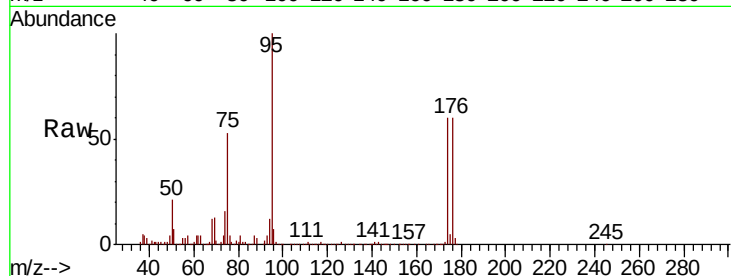
Tot Ion: 95 Resp: 1730756

Ion Ratio Lower Upper

95 100

174 64.9 50.8 76.2

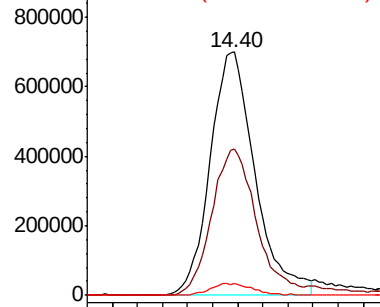
175 5.0 3.8 5.6



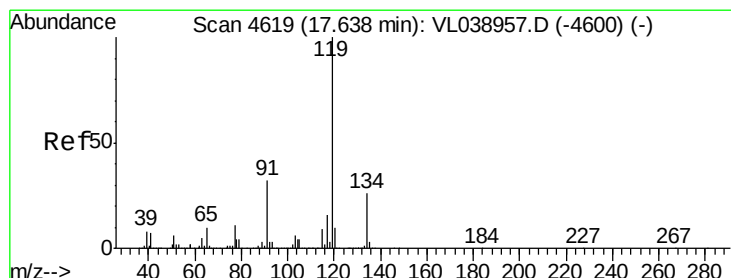
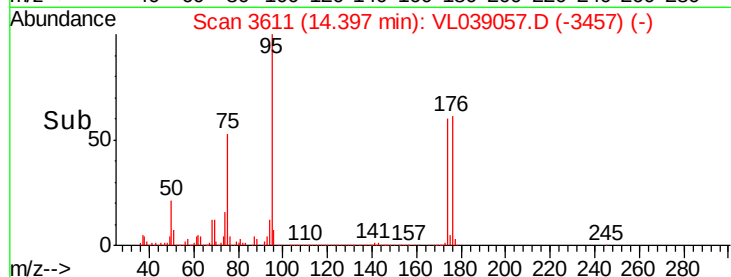
Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time--> 14.30 14.40



#69

p-Isopropyltoluene

Concen: 0.080 ppbv

RT: 17.63 min Scan# 4617

Delta R.T. -0.01 min

Lab File: VL039057.D

Acq: 14 May 2022 4:36

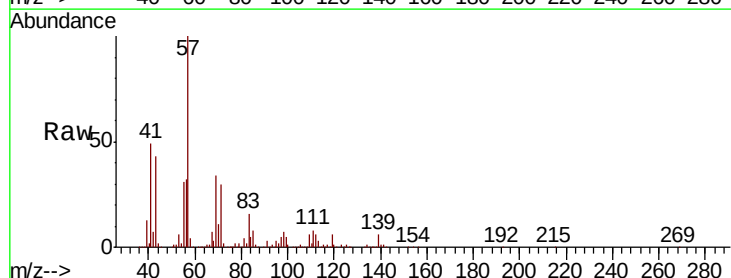
Tgt Ion: 119 Resp: 30214

Ion Ratio Lower Upper

119 100

134 0.0 20.0 30.0#

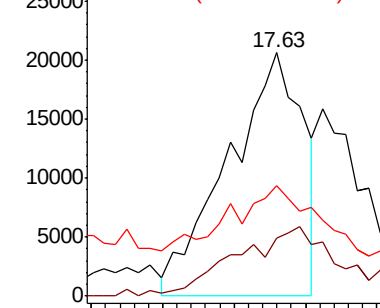
91 57.8 24.8 37.2#



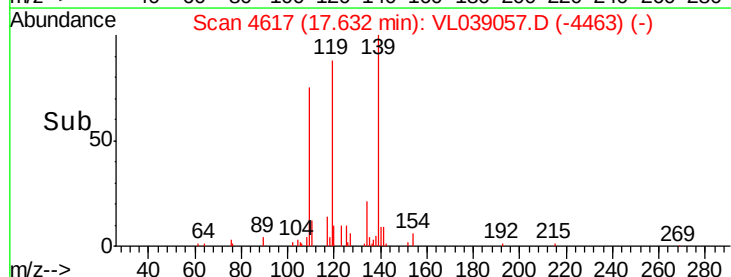
Abundance Ion 119.10 (118.80 to 119.80): V

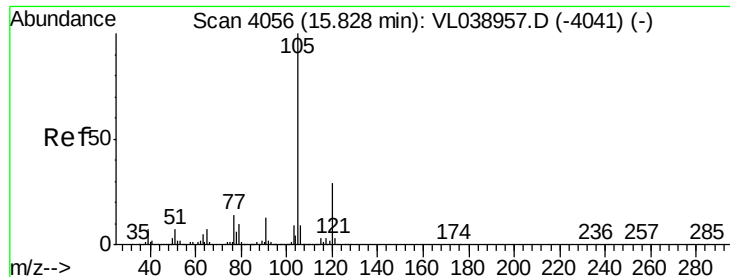
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0



Time--> 17.58 17.60 17.62 17.64





#72

4-Ethyltoluene

Concen: 0.073 ppbv

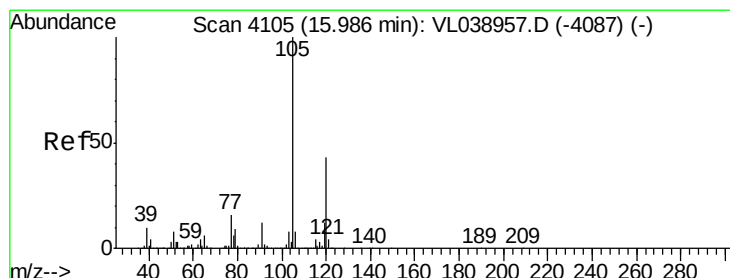
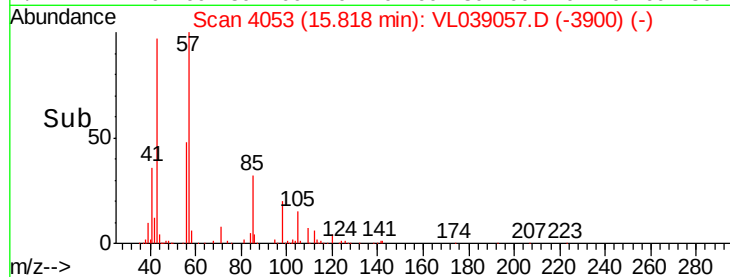
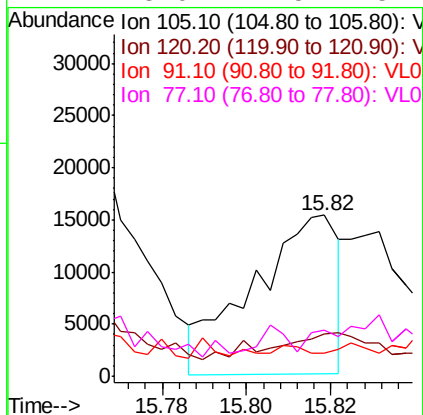
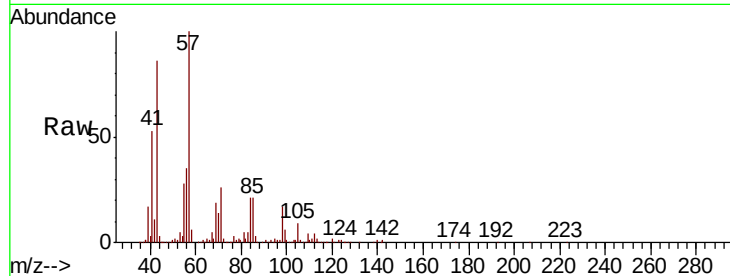
RT: 15.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 4:30

Tot Ion:	105	Resp:	21304
Ion Ratio	Lower	Upper	
105	100		
120	40.1	23.4	35.0#
91	0.0	10.6	16.0#
77	8.0	12.5	18.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.151 ppbv

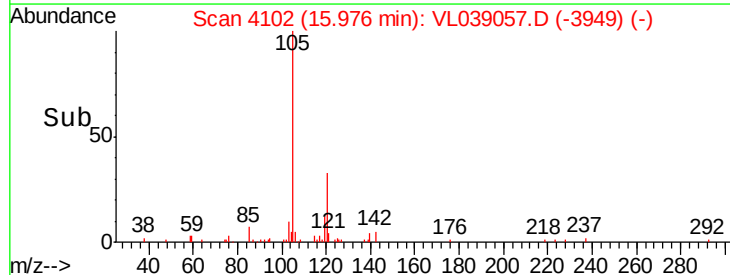
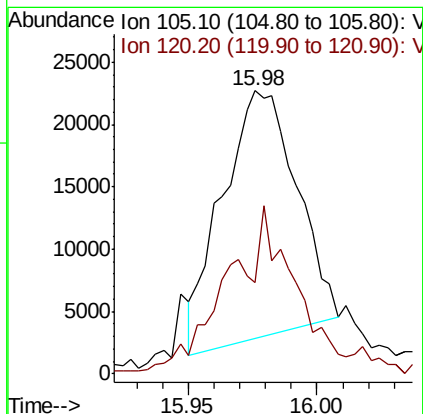
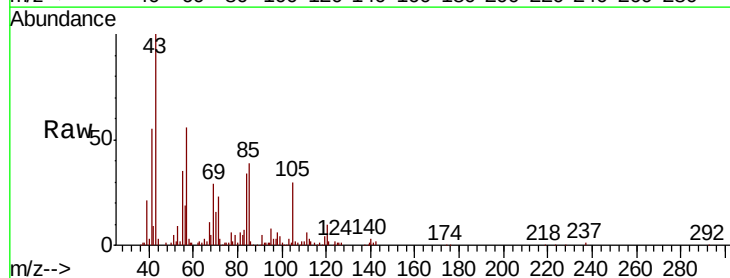
RT: 15.98 min Scan# 4102

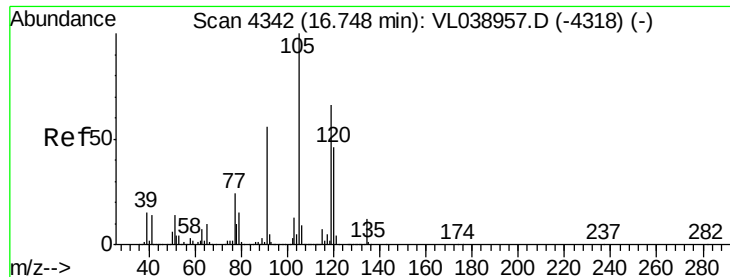
Delta R.T. -0.01 min

Lab File: VL039057.D

Acq: 14 May 2022 4:36

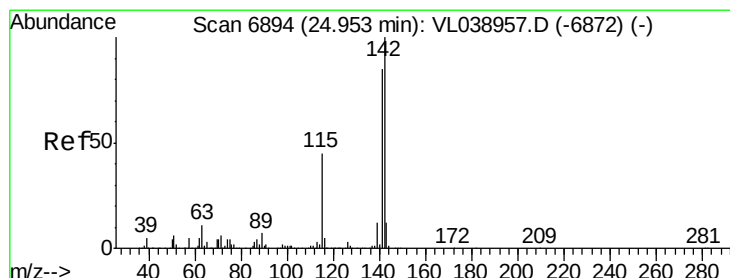
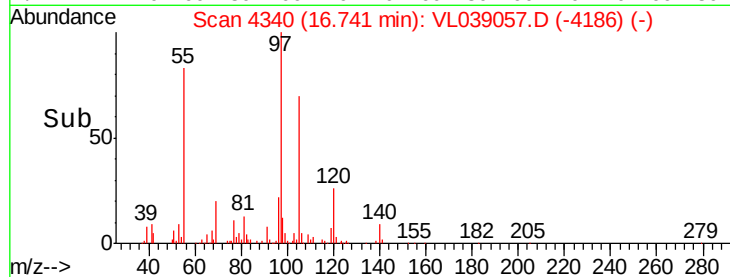
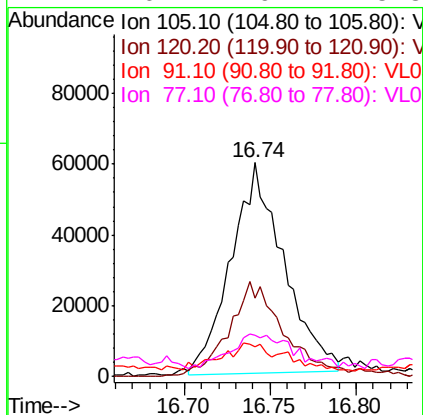
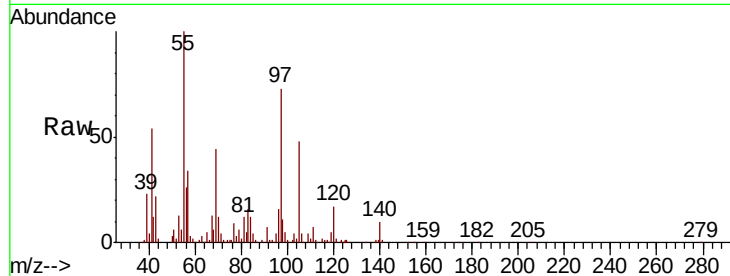
Tgt Ion:	105	Resp:	39833
Ion Ratio	Lower	Upper	
105	100		
120	32.0	34.4	51.6#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.440 ppbv
 RT: 16.74 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : SV2
 Acq: 14 May 2022 4:30

Tot Ion:	105	Resp:	126910
Ion Ratio	Lower	Upper	
105	100		
120	34.3	36.9	55.3#
91	11.1	45.0	67.4#
77	16.2	19.2	28.8#



#80
 Naphthalene, 2-methyl-
 Concen: 0.062 ppbv
 RT: 24.95 min Scan# 6893
 Delta R.T. -0.00 min
 Lab File: VL039057.D
 Acq: 14 May 2022 4:36

Tgt Ion:	142	Resp:	4372
Ion Ratio	Lower	Upper	
142	100		
141	110.1	70.8	106.2#
115	48.0	35.1	52.7

