

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012422\
 Data File : VL038260.D
 Acq On : 24 Jan 2022 14:31
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL012422

Quant Time: Jan 24 21:57:44 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	839560	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2354923	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2640454	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1647637	8.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.06	85	1731728	9.689 ppbv	99
3) Chlorodifluoromethane	3.00	51	1487207	8.898 ppbv	100
4) Chloromethane	3.15	50	514720	8.952 ppbv	98
5) Vinyl Chloride	3.27	62	525511	9.157 ppbv	100
6) Bromomethane	3.49	94	292724	9.435 ppbv	98
7) Chloroethane	3.57	64	185567	9.573 ppbv	96
8) Dichlorotetrafluoroethane	3.20	85	1241732	8.979 ppbv	98
9) Propene	3.02	41	514656	9.459 ppbv	99
10) Heptane	8.13	43	1300327	9.289 ppbv	99
11) Trichlorofluoromethane	3.96	101	1270459	9.125 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	941302	8.944 ppbv	97
13) Ethanol	3.61	45	21149	3.621 ppbv #	1
14) Bromoethene	3.75	108	383255	9.319 ppbv	98
15) Acetone	3.86	43	627992	8.485 ppbv	100
16) 1,3-Butadiene	3.34	39	492780	9.279 ppbv	98
17) tert-Butyl alcohol	4.30	59	768645	9.463 ppbv	98
18) 1,1-Dichloroethene	4.30	96	423329	9.250 ppbv	99
19) Isopropyl Alcohol	3.97	45	420476	9.082 ppbv #	95
20) Methylene Chloride	4.36	84	336516	7.818 ppbv	98
21) Allyl Chloride	4.42	41	644535	9.843 ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	453505	9.590 ppbv	96
23) Vinyl Acetate	5.08	43	1082868	10.063 ppbv	97
24) 1,1-Dichloroethane	5.02	63	874359	9.121 ppbv	100
25) Ethyl Acetate	5.69	43	1994087	9.623 ppbv	99
26) Hexane	5.70	57	916054	9.505 ppbv	98
27) Carbon Disulfide	4.56	76	1090041	9.667 ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	961564	9.617 ppbv	100
29) Chloroform	5.76	83	1445195	9.186 ppbv	99
30) Cyclohexane	7.14	84	825409	9.836 ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	893996	10.633 ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	1467107	9.337 ppbv	99
34) 2-Butanone	5.25	43	688127	8.935 ppbv	99
35) Carbon Tetrachloride	7.02	117	1529372	9.252 ppbv	97
36) Benzene	6.90	78	1988728	9.547 ppbv	100
37) 1,2-Dichloroethane	6.32	62	1108253	9.289 ppbv	98
38) Trichloroethene	7.84	130	704946	9.085 ppbv	98
39) 1,2-Dichloropropane	7.62	63	777933	9.212 ppbv	97
40) 1,4-Dioxane	7.84	88	193003	9.495 ppbv	74
41) Tetrahydrofuran	6.06	42	494755	9.557 ppbv	96
42) Bromodichloromethane	7.80	83	1636352	9.244 ppbv	99
43) Methyl Methacrylate	8.02	69	748995	10.166 ppbv	99

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3285871	8.951	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	676997	11.309	ppbv	98
46) cis-1,3-Dichloropropene	8.71	75	837147	10.481	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	788756	9.505	ppbv	99
48) Dibromochloromethane	10.31	129	1366751	9.783	ppbv	100
49) Bromoform	13.05	173	1062811	10.553	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1306988	9.513	ppbv	99
51) 2-Hexanone	10.14	43	585797	9.682	ppbv #	94
52) Tetrachloroethene	11.23	164	649674	9.049	ppbv	99
53) Toluene	9.81	91	2246157	9.742	ppbv	99
54) 1,2-Dibromoethane	10.62	107	1157647	9.813	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.13	131	876610	7.585	ppbv	98
57) Chlorobenzene	12.15	112	1595569	7.551	ppbv	99
58) Ethyl Benzene	12.72	91	2960016	7.628	ppbv	98
59) m/p-Xylene	13.01	91	2568676	7.759	ppbv #	39
60) o-Xylene	13.70	91	2314861	7.518	ppbv	99
61) Styrene	13.53	104	1241428	8.639	ppbv	99
62) Isopropylbenzene	14.67	105	3102943	7.559	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	1649246	7.239	ppbv	100
64) n-propylbenzene	15.57	120	788919	7.989	ppbv	99
65) tert-Butylbenzene	16.75	119	2624426	7.762	ppbv	99
66) Benzyl Chloride	17.00	91	154183	10.039	ppbv #	97
67) sec-Butylbenzene	17.30	105	3658922	7.779	ppbv	99
69) p-Isopropyltoluene	17.66	119	2934908	8.154	ppbv	99
70) n-Butylbenzene	18.55	91	2951845	8.373	ppbv	100
71) 2-Chlorotoluene	15.46	91	2412405	7.934	ppbv	99
72) 4-Ethyltoluene	15.85	105	2655953	8.248	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	2336196	8.067	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	2405910	7.886	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	1346479	8.224	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	1294175	8.165	ppbv	97
77) 1,2-Dichlorobenzene	17.82	146	1228208	8.077	ppbv	100
78) Hexachloro-1,3-Butadiene	23.38	225	646255	6.113	ppbv	99
79) Naphthalene	22.20	128	1212105	8.498	ppbv	98
80) Naphthalene,2-methyl-	24.98	142	260622	16.801	ppbv	97
81) 1,2,4-Trichlorobenzene	21.93	180	622720	7.423	ppbv	96

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

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Instrument :
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ClientSampleId :
ICVVL012422

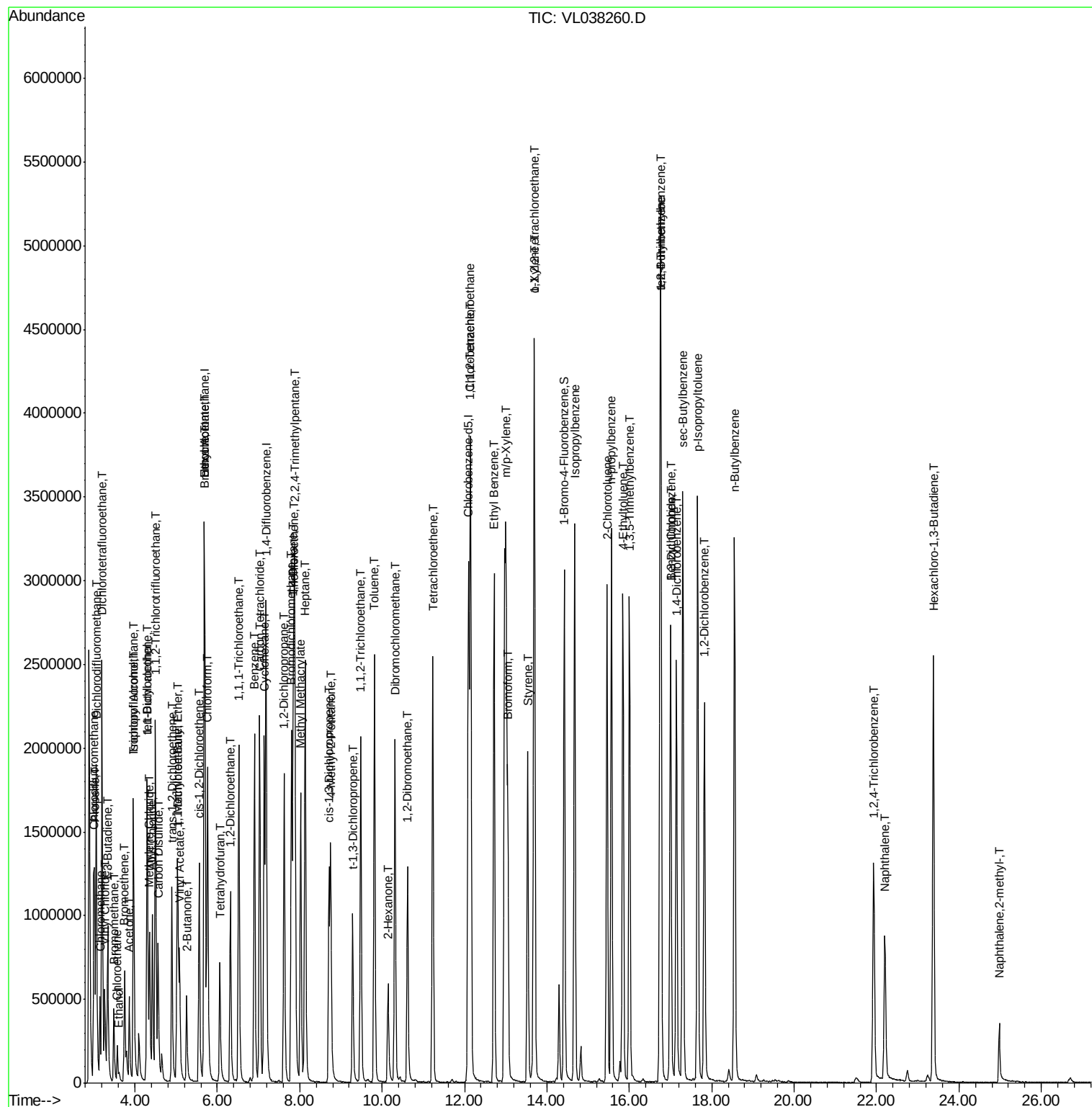
Quant Time: Jan 24 21:57:44 2022

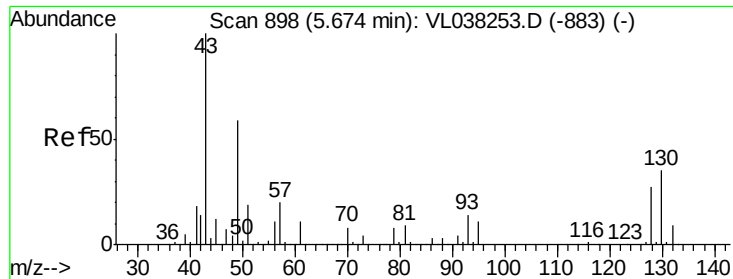
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M

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QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. 0.00

Lab File: ClientSampleId: ICVVL012422

Acq: 24 Jan 2022 14:31

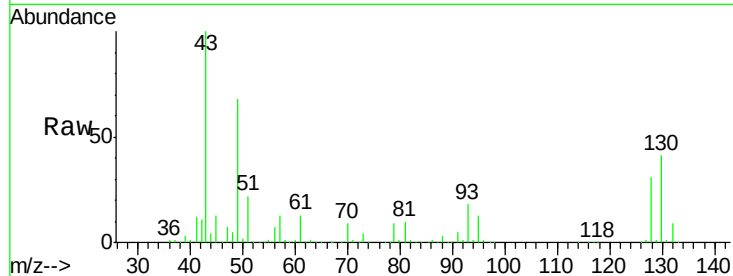
Tgt Ion: 49 Resp: 839560

Ion Ratio Lower Upper

49 100

128 50.1 24.5 73.5

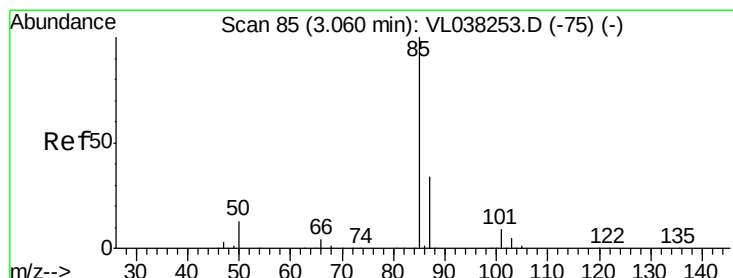
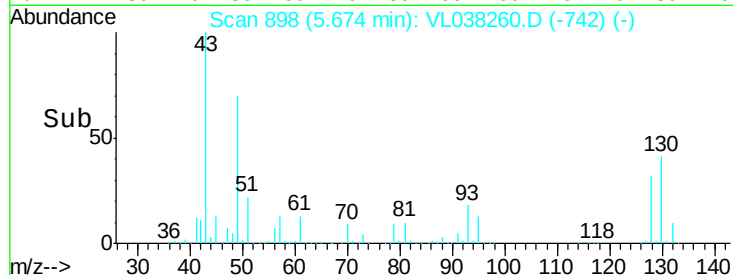
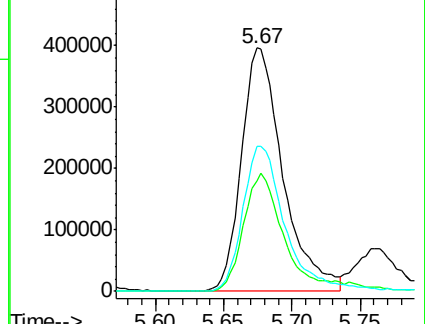
130 62.1 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.689 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.00 min

Lab File: VL038260.D

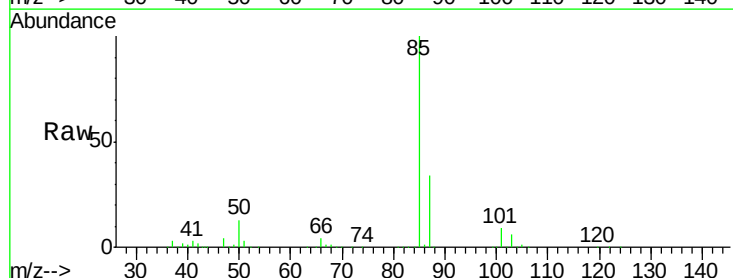
Acq: 24 Jan 2022 14:31

Tgt Ion: 85 Resp: 1731728

Ion Ratio Lower Upper

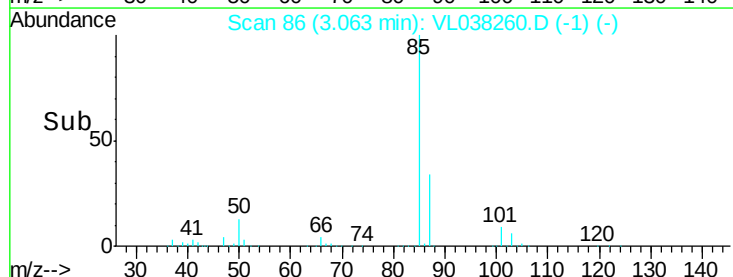
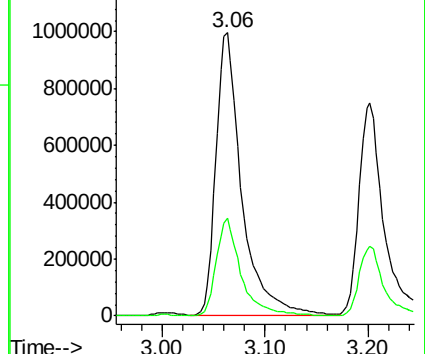
85 100

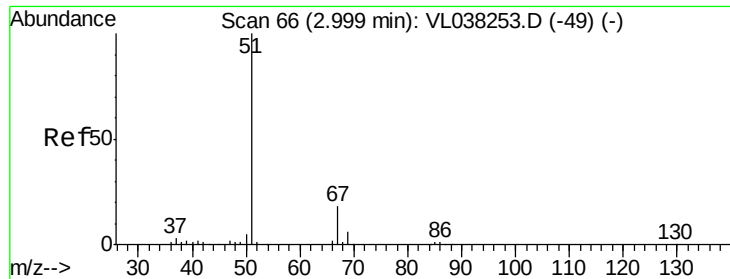
87 34.5 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.898 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

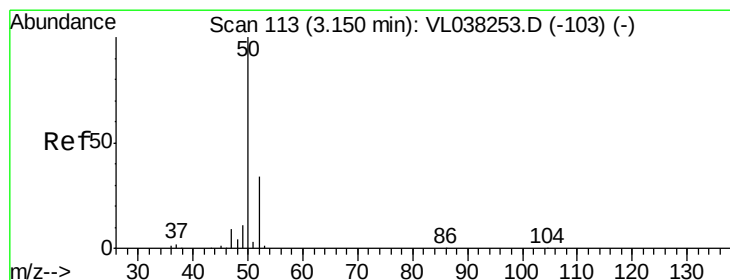
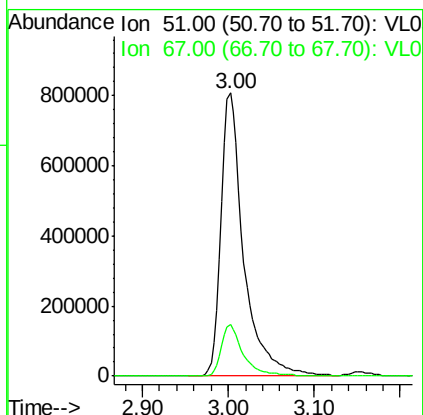
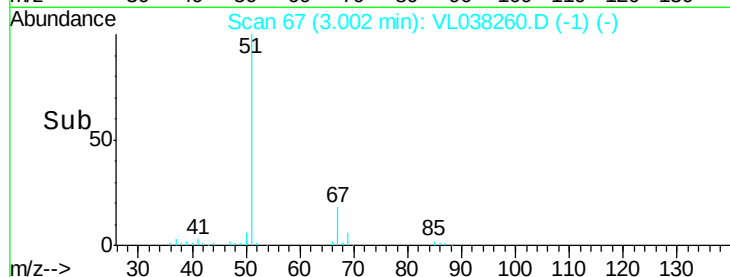
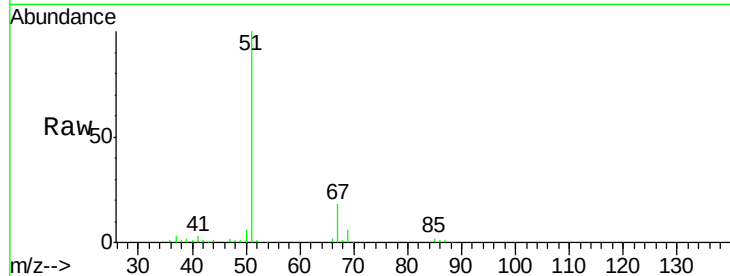
Acq: 24 Jan 2022 14:31

Tgt Ion: 51 Resp: 1487207

Ion Ratio Lower Upper

51 100

67 17.8 14.4 21.6



#4

Chloromethane

Concen: 8.952 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL038260.D

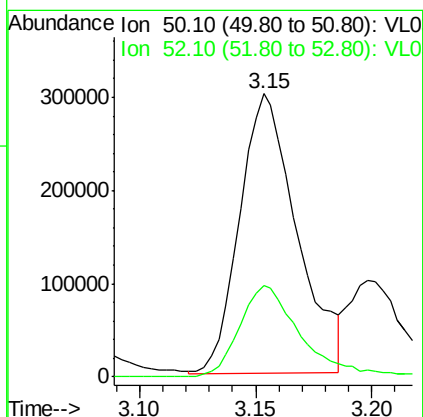
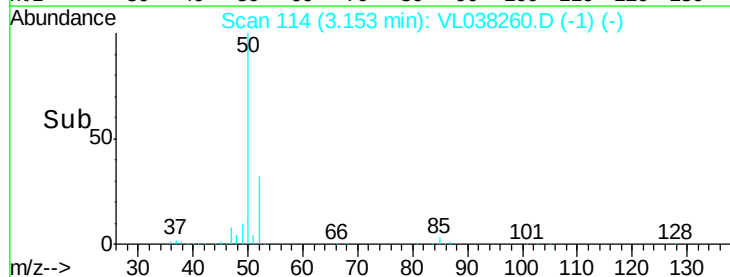
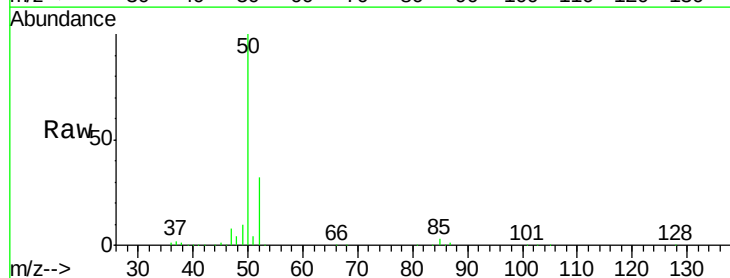
Acq: 24 Jan 2022 14:31

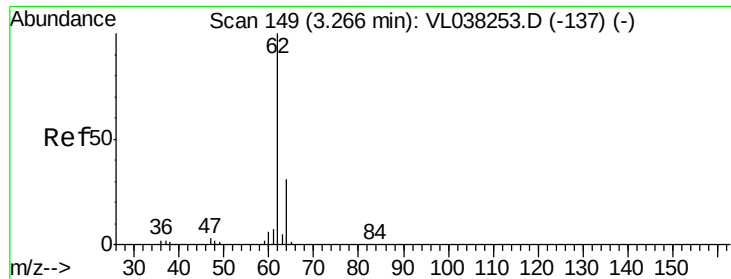
Tgt Ion: 50 Resp: 514720

Ion Ratio Lower Upper

50 100

52 33.0 27.1 40.7





#5

Vinyl Chloride

Concen: 9.157 ppbv

RT: 3.27

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

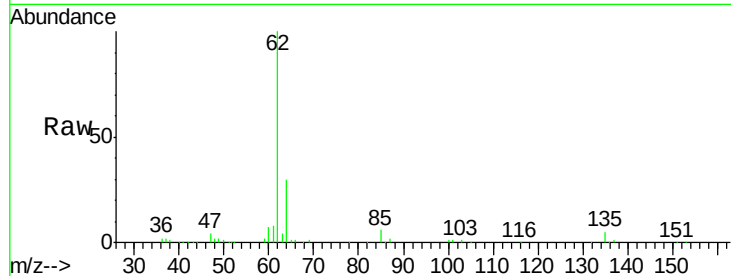
Acq: 24 Jan 2022 14:31

Tgt Ion: 62 Resp: 525511

Ion Ratio Lower Upper

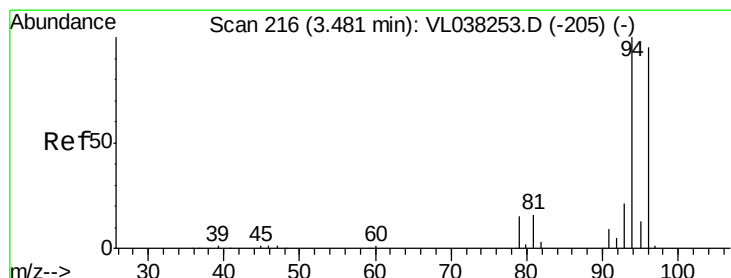
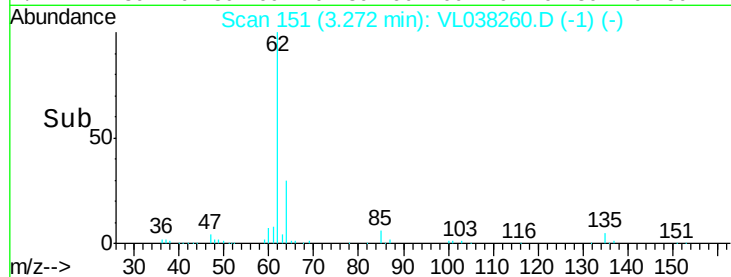
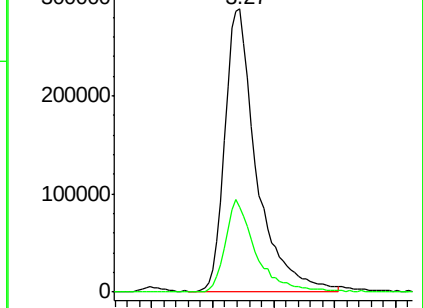
62 100

64 30.3 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.435 ppbv

RT: 3.49 min Scan# 218

Delta R.T. 0.01 min

Lab File: VL038260.D

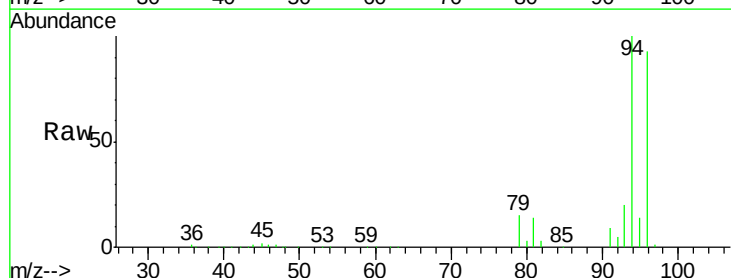
Acq: 24 Jan 2022 14:31

Tgt Ion: 94 Resp: 292724

Ion Ratio Lower Upper

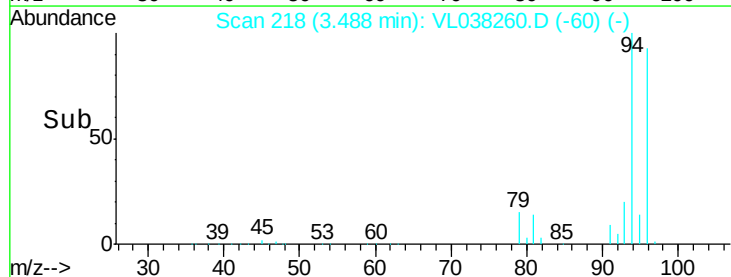
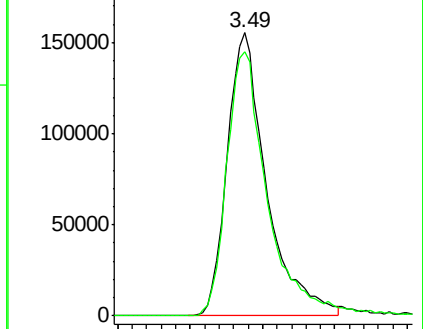
94 100

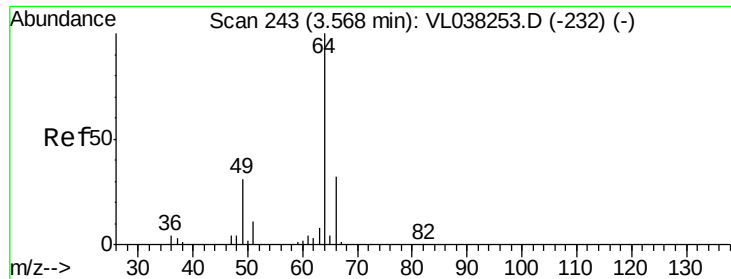
96 93.0 76.0 114.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.573 ppbv

RT: 3.57 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

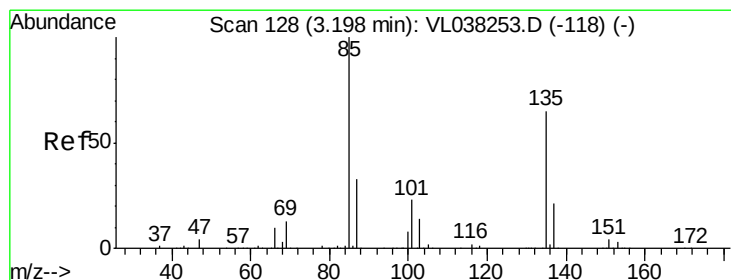
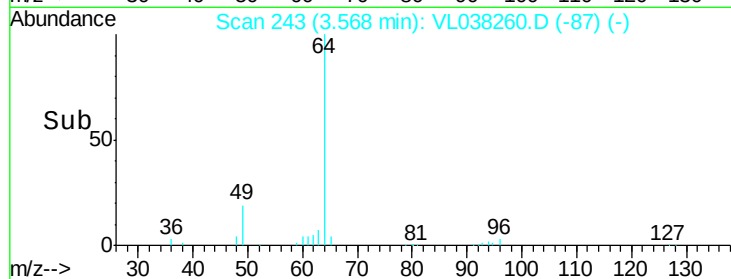
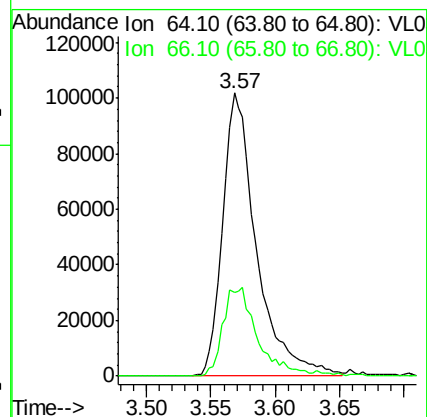
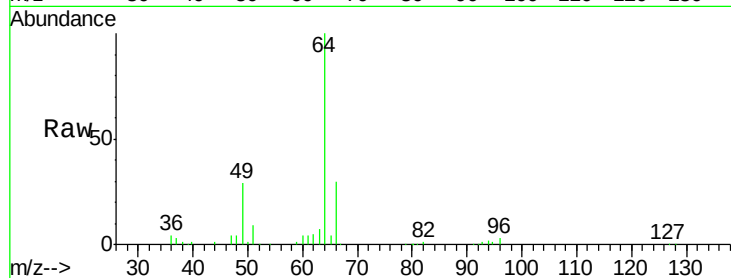
Acq: 24 Jan 2022 14:31

Tgt Ion: 64 Resp: 185567

Ion Ratio Lower Upper

64 100

66 29.7 25.8 38.6



#8

Dichlorotetrafluoroethane

Concen: 8.979 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL038260.D

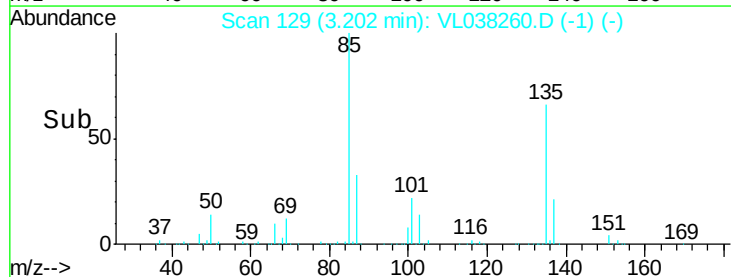
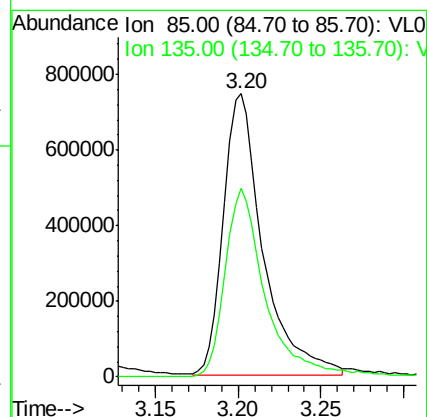
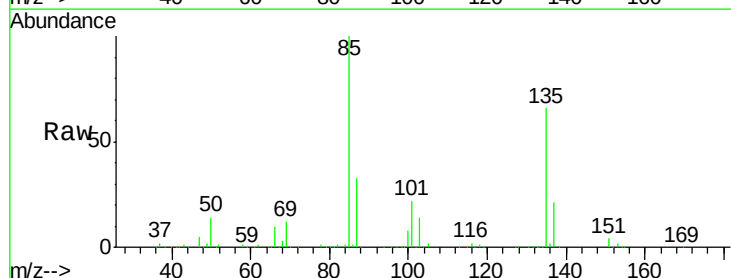
Acq: 24 Jan 2022 14:31

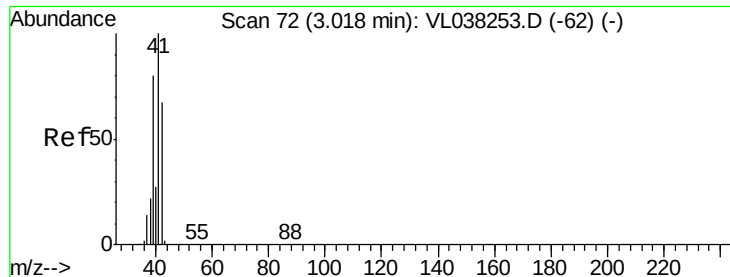
Tgt Ion: 85 Resp: 1241732

Ion Ratio Lower Upper

85 100

135 69.0 53.7 80.5





#9

Propene

Concen: 9.459 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId: ICVVL012422

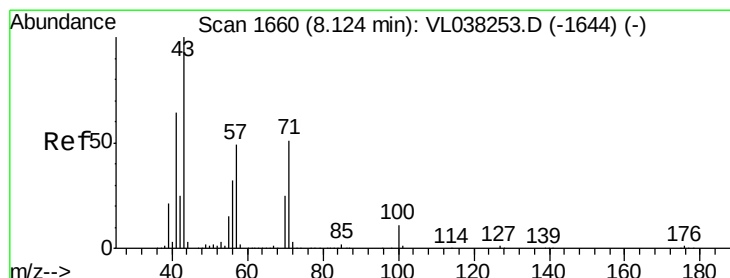
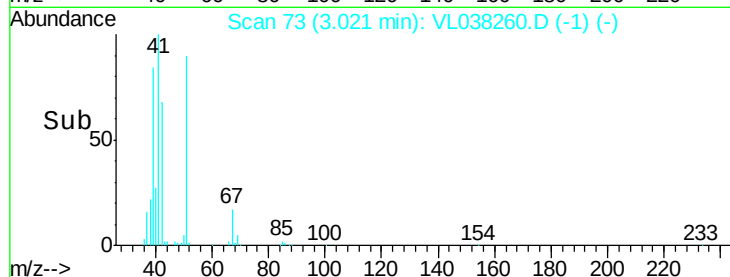
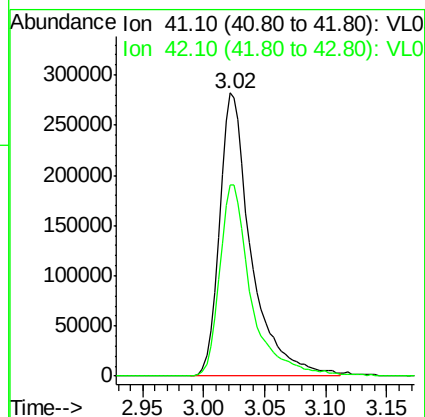
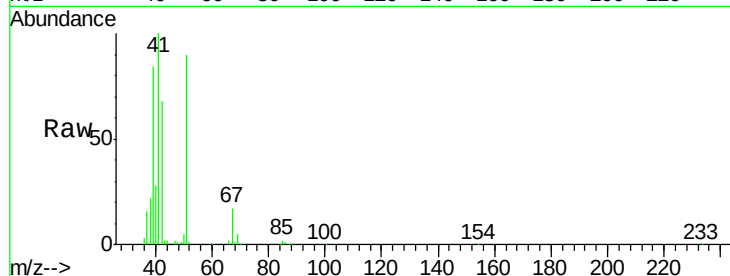
Acq: 24 Jan 2022 14:31

Tgt Ion: 41 Resp: 514656

Ion Ratio Lower Upper

41 100

42 67.9 54.9 82.3



#10

Heptane

Concen: 9.289 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VL038260.D

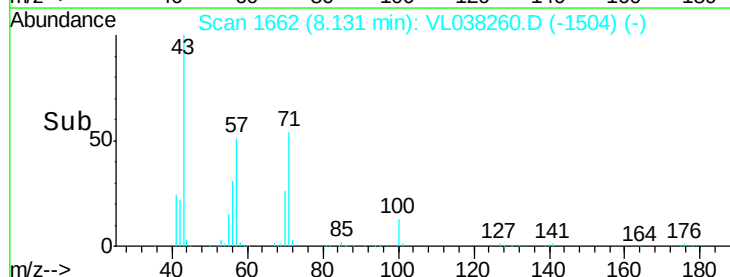
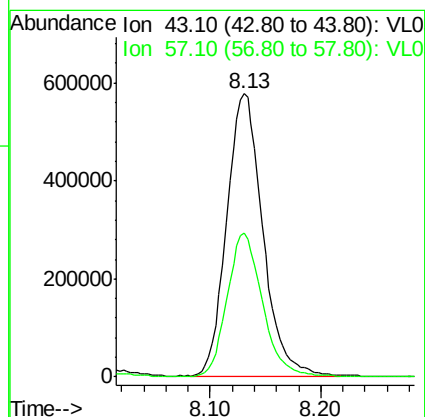
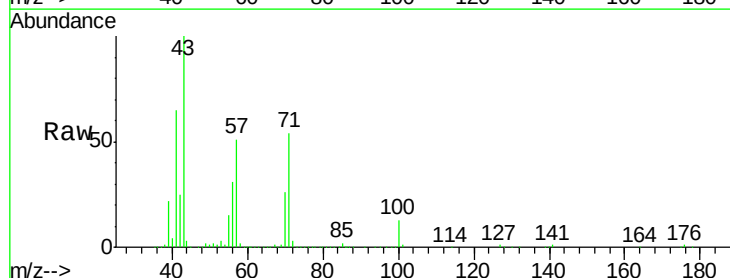
Acq: 24 Jan 2022 14:31

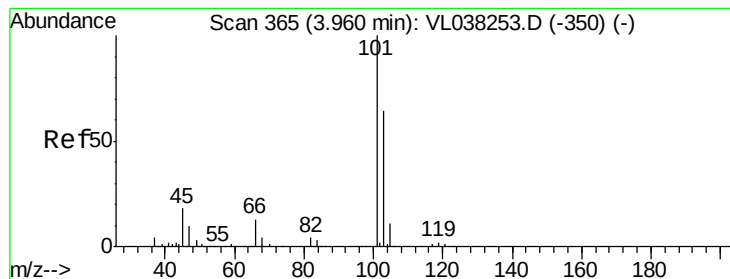
Tgt Ion: 43 Resp: 1300327

Ion Ratio Lower Upper

43 100

57 50.1 39.5 59.3





#11

Trichlorofluoromethane

Concen: 9.125 ppbv

RT: 3.96 Instrument: MSVOA_1

Delta R.T. 0.00 min

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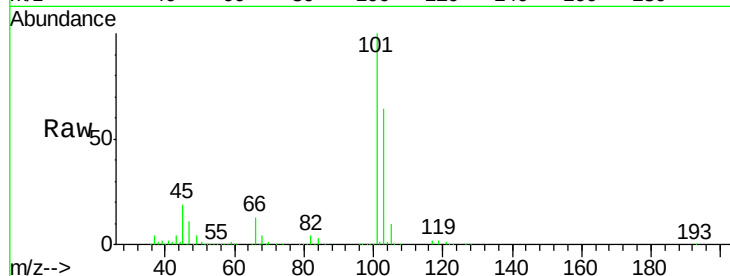
Acq: 24 Jan 2022 14:31

Tgt Ion:101 Resp: 1270459

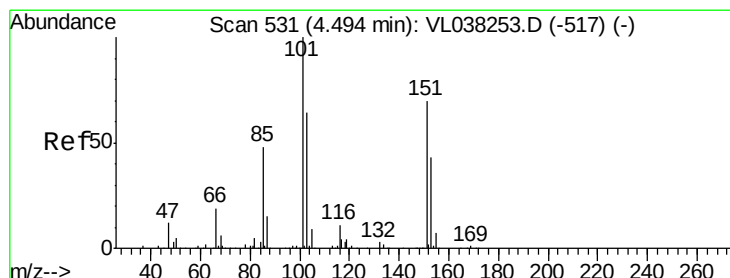
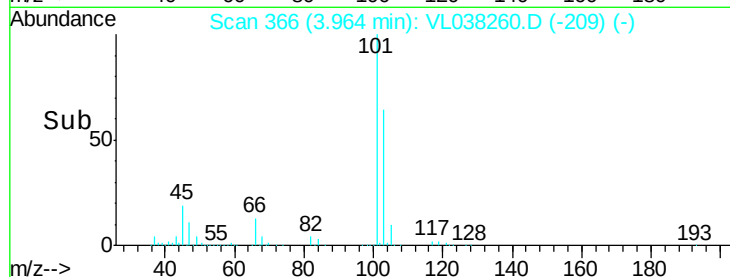
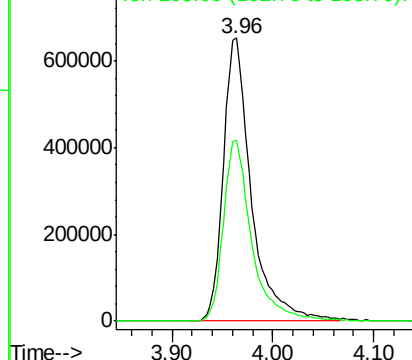
Ion Ratio Lower Upper

101 100

103 63.7 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.944 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL038260.D

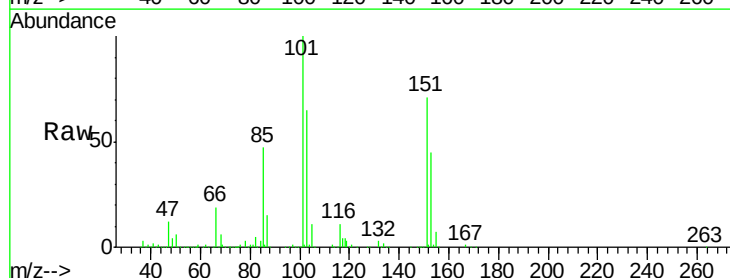
Acq: 24 Jan 2022 14:31

Tgt Ion:101 Resp: 941302

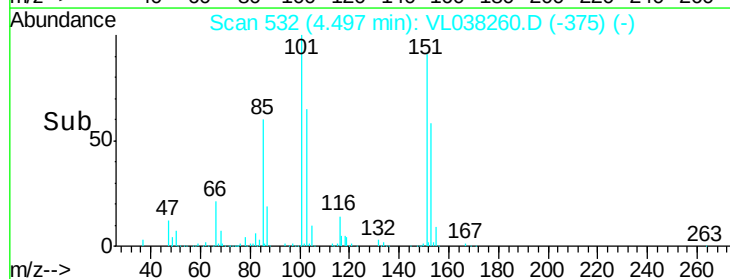
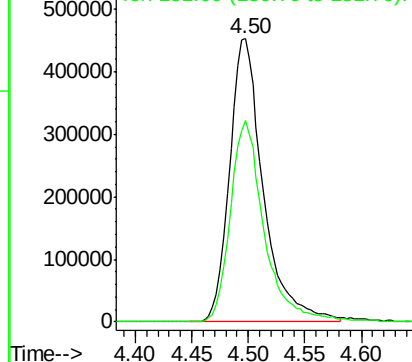
Ion Ratio Lower Upper

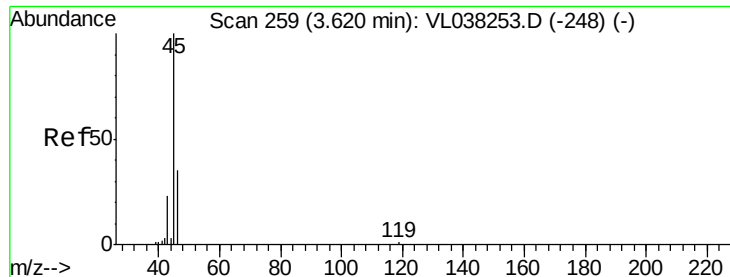
101 100

151 71.5 55.3 82.9



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 3.621 ppbv

RT: 3.61

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

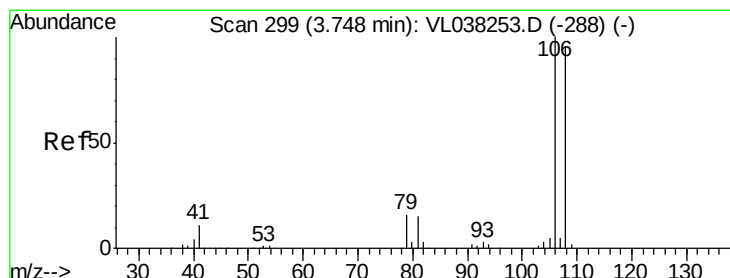
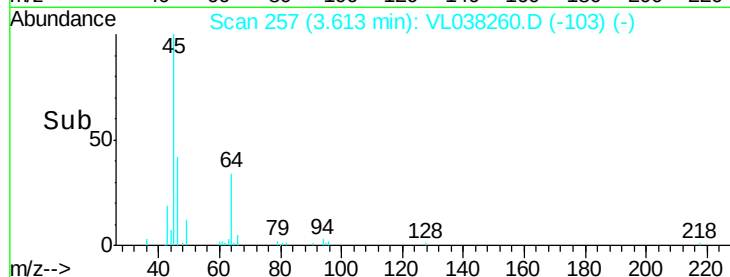
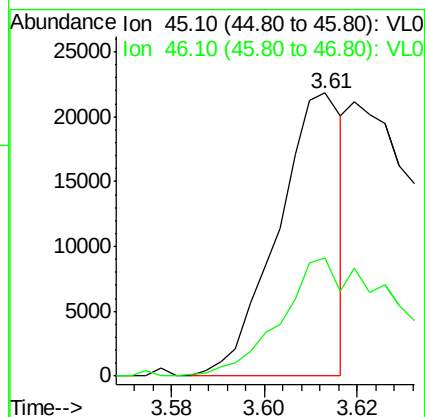
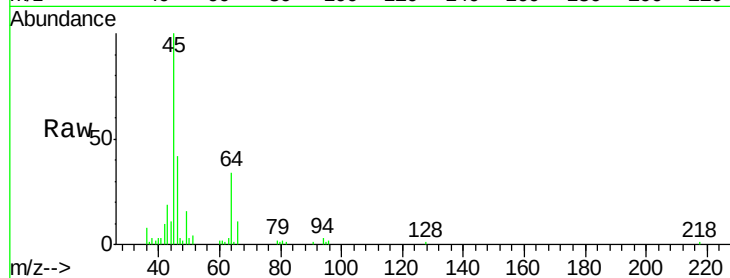
Acq: 24 Jan 2022 14:31

Tgt Ion: 45 Resp: 21149

Ion Ratio Lower Upper

45 100

46 108.9 15.4 61.6#



#14

Bromoethene

Concen: 9.319 ppbv

RT: 3.75 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL038260.D

Acq: 24 Jan 2022 14:31

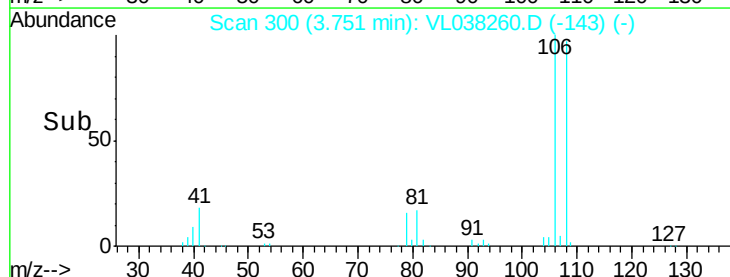
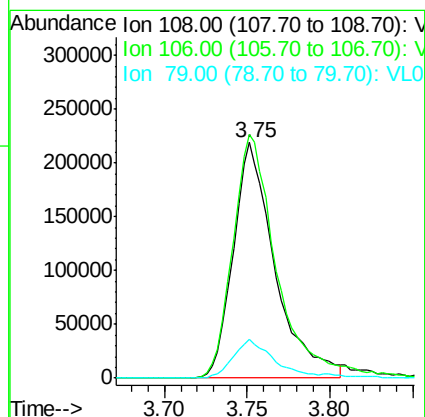
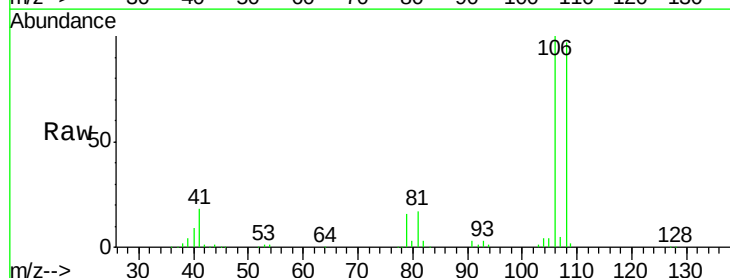
Tgt Ion: 108 Resp: 383255

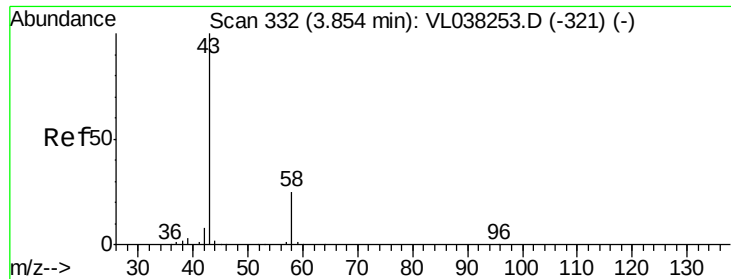
Ion Ratio Lower Upper

108 100

106 110.9 86.4 129.6

79 17.3 14.1 21.1





#15

Acetone

Concen: 8.485 ppbv

RT: 3.86 Instrument: MSVOA_L

Delta R.T. 0.00 min

Lab File: ClientSampleId: ICVVL012422

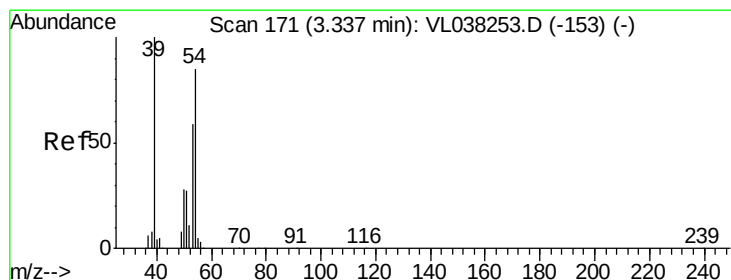
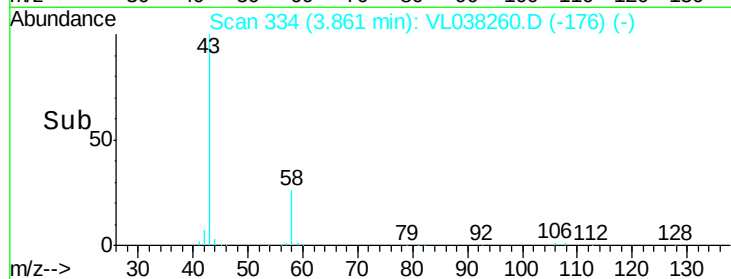
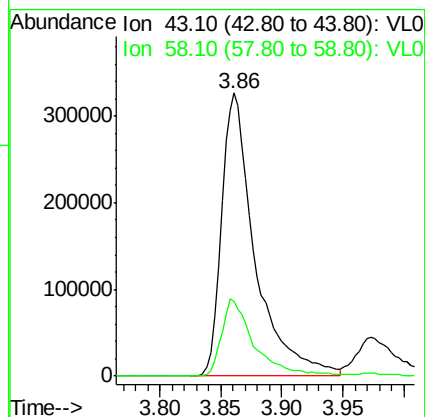
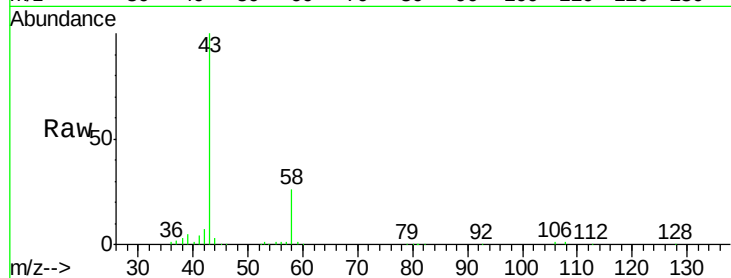
Acq: 24 Jan 2022 14:31

Tgt Ion: 43 Resp: 627992

Ion Ratio Lower Upper

43 100

58 26.8 21.5 32.3



#16

1,3-Butadiene

Concen: 9.279 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.00 min

Lab File: VL038260.D

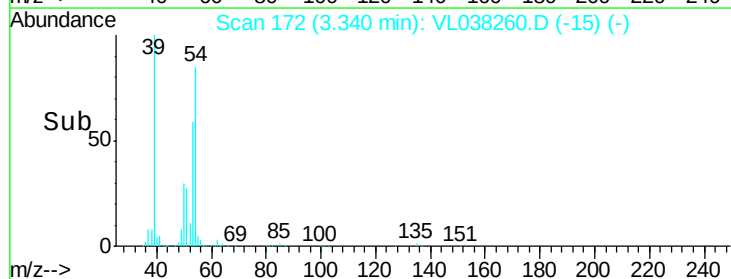
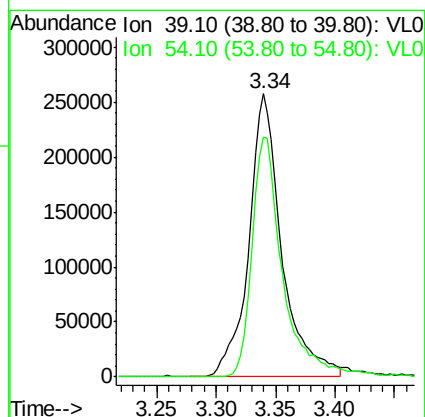
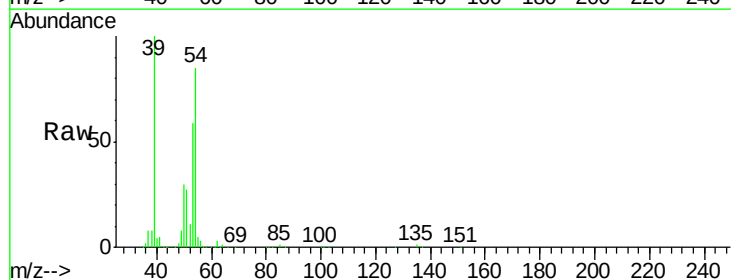
Acq: 24 Jan 2022 14:31

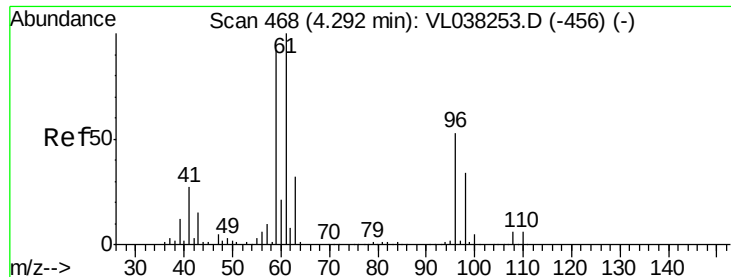
Tgt Ion: 39 Resp: 492780

Ion Ratio Lower Upper

39 100

54 79.9 62.6 94.0





#17

tert-Butyl alcohol

Concen: 9.463 ppbv

RT: 4.30

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

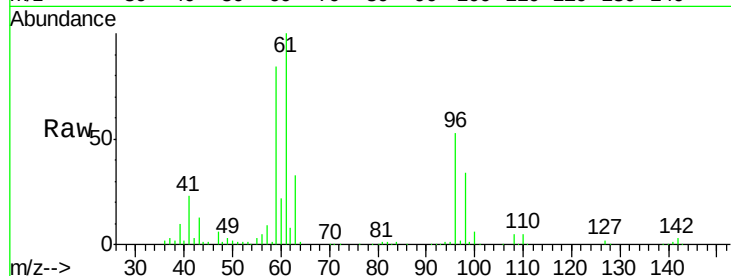
Acq: 24 Jan 2022 14:31

Tgt Ion: 59 Resp: 768645

Ion Ratio Lower Upper

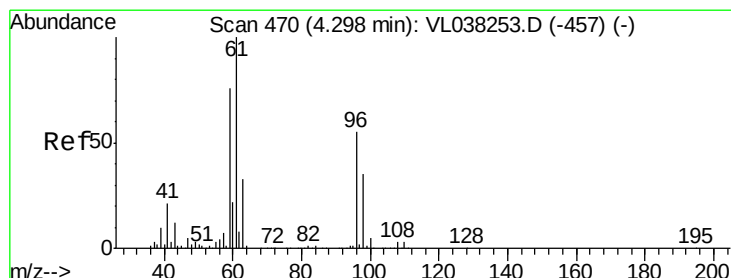
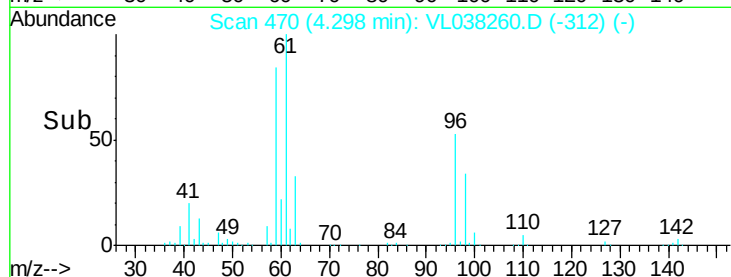
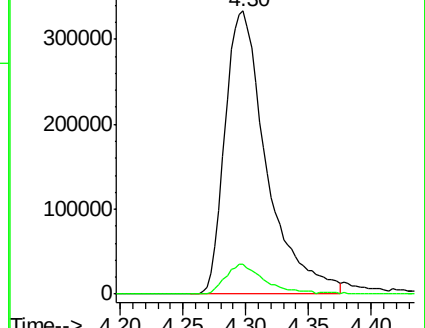
59 100

57 10.6 9.2 13.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.250 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.00 min

Lab File: VL038260.D

Acq: 24 Jan 2022 14:31

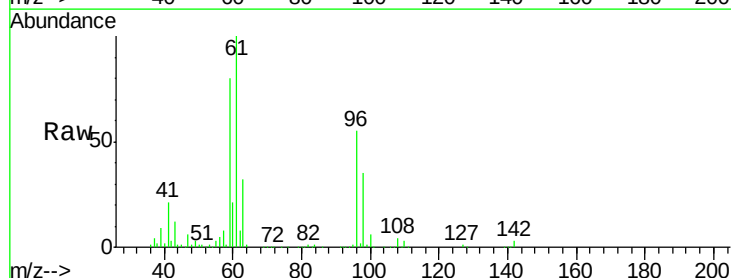
Tgt Ion: 96 Resp: 423329

Ion Ratio Lower Upper

96 100

61 181.4 146.5 219.7

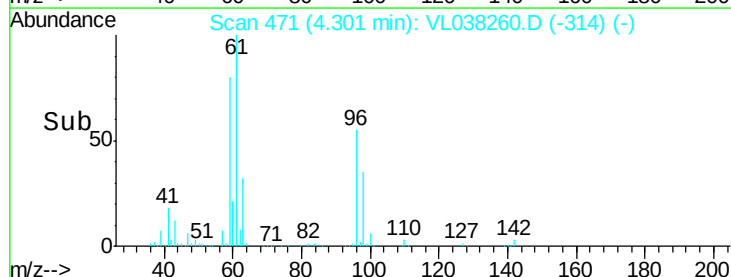
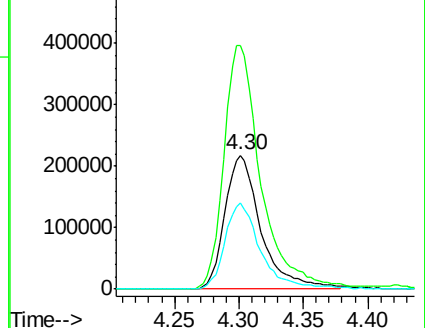
98 63.8 51.9 77.9

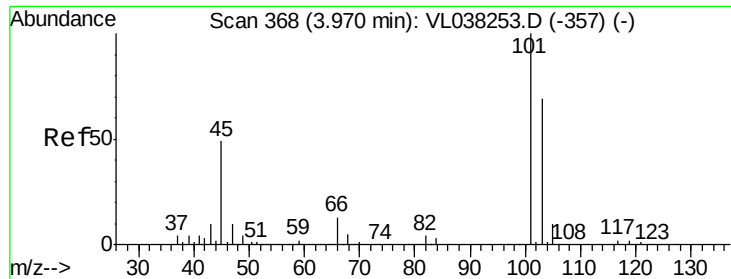


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 9.082 ppbv

RT: 3.97 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: ICVVL012422

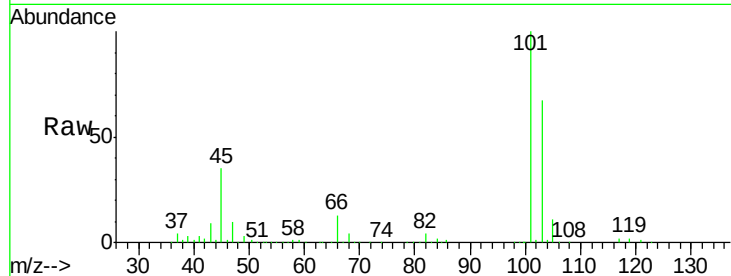
Acq: 24 Jan 2022 14:31

Tgt Ion: 45 Resp: 420476

Ion Ratio Lower Upper

45 100

58 1.4 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

200000

150000

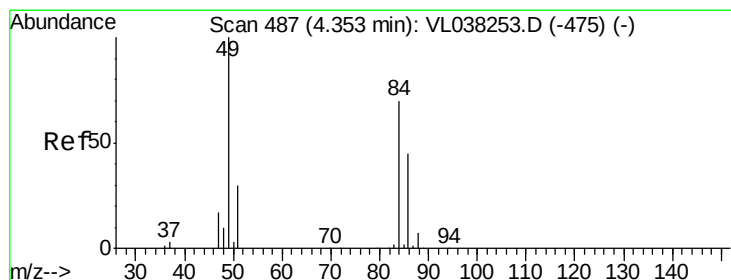
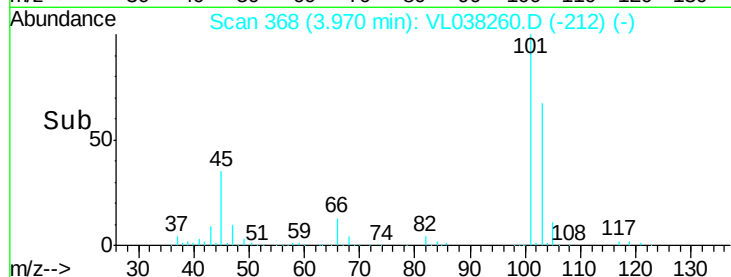
100000

50000

0

3.90 3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: 7.818 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL038260.D

Acq: 24 Jan 2022 14:31

Tgt Ion: 84 Resp: 336516

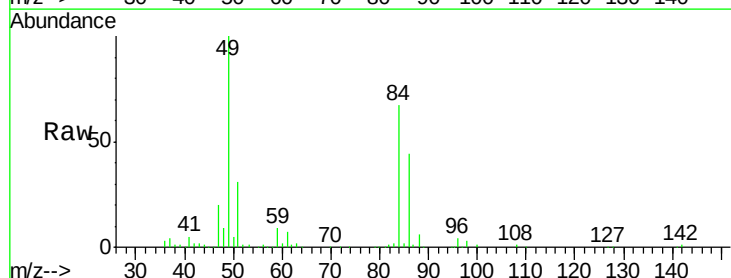
Ion Ratio Lower Upper

84 100

49 146.7 115.0 172.6

51 44.4 35.0 52.6

86 65.3 51.4 77.0



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

400000

300000

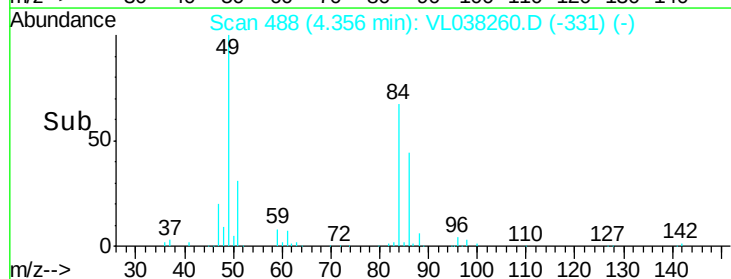
200000

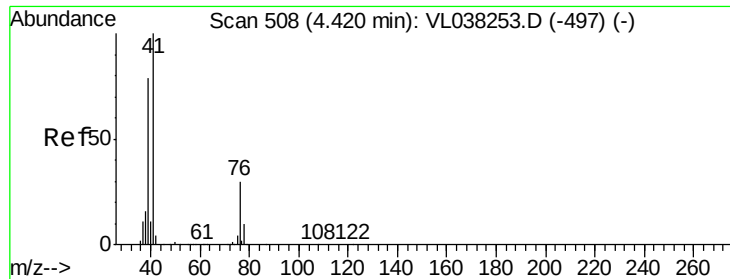
100000

0

4.30 4.35 4.40

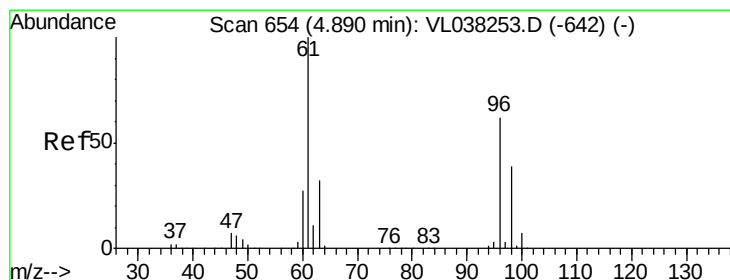
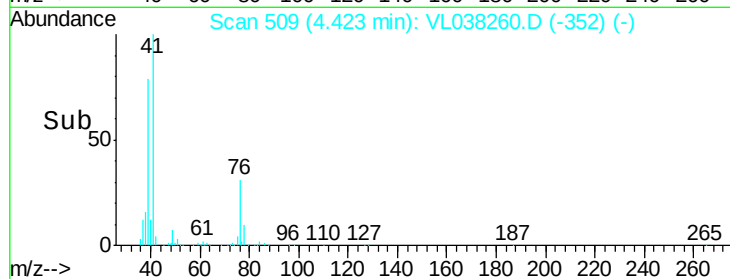
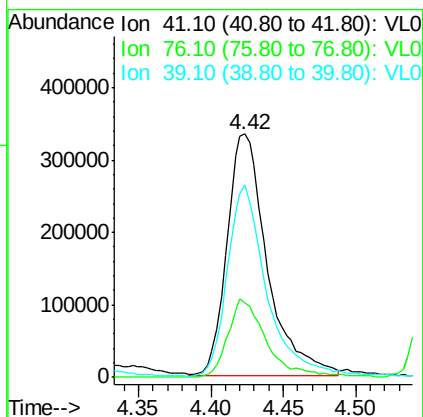
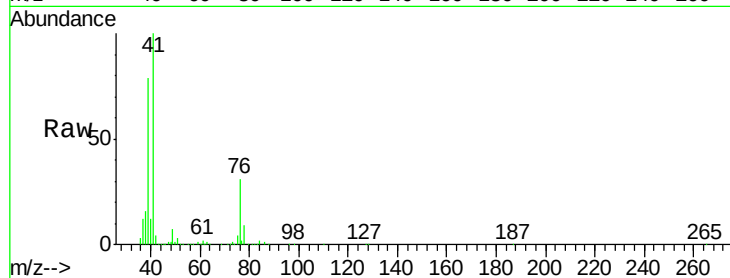
Time-->





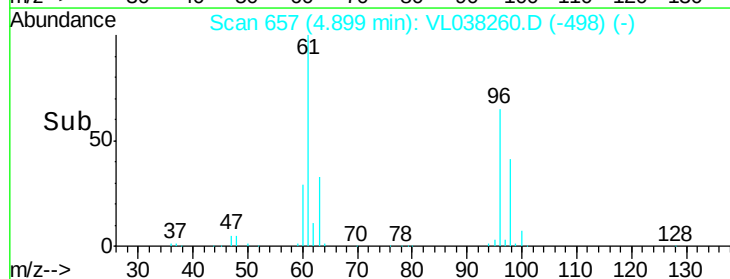
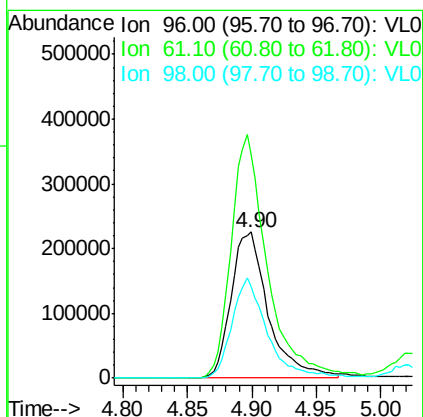
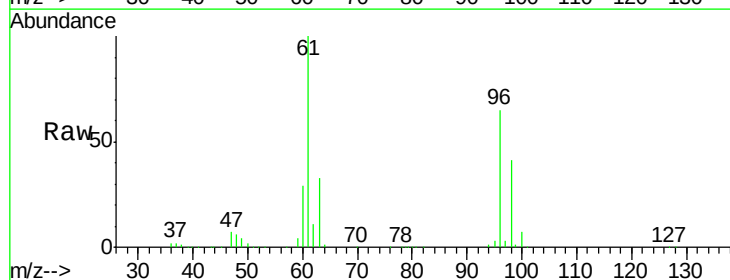
#21
 Allyl Chloride
 Concen: 9.843 ppbv
 RT: 4.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 14:31

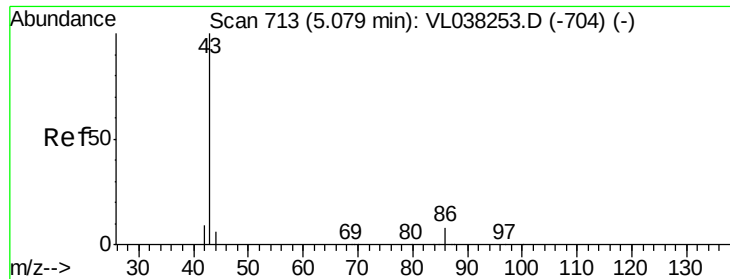
Tgt Ion: 41 Resp: 644535
 Ion Ratio Lower Upper
 41 100
 76 31.3 25.0 37.6
 39 77.2 63.0 94.6



#22
 trans-1,2-Dichloroethene
 Concen: 9.590 ppbv
 RT: 4.90 min Scan# 657
 Delta R.T. 0.01 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

Tgt Ion: 96 Resp: 453505
 Ion Ratio Lower Upper
 96 100
 61 153.2 128.8 193.2
 98 62.7 49.8 74.8

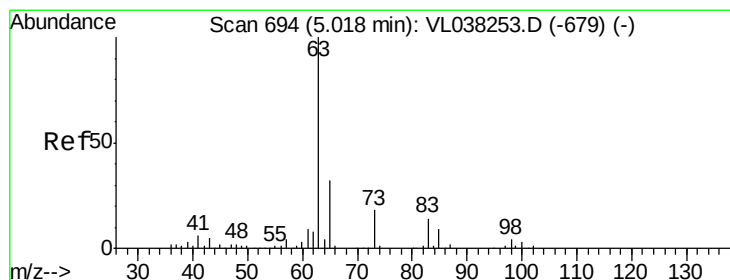
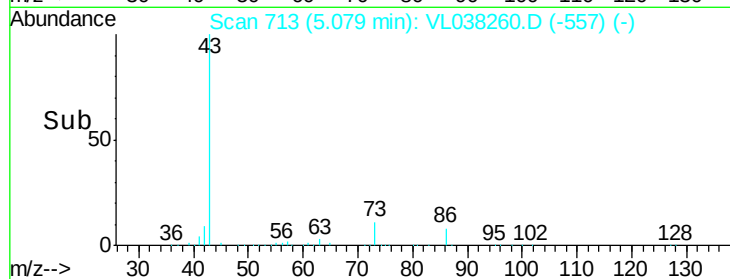
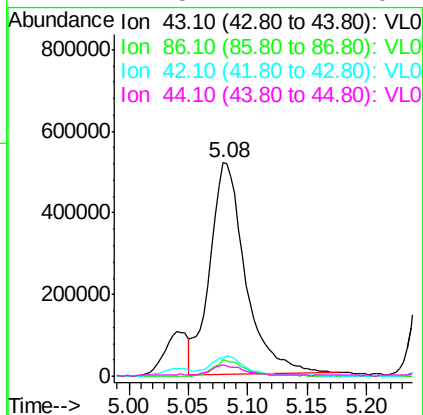
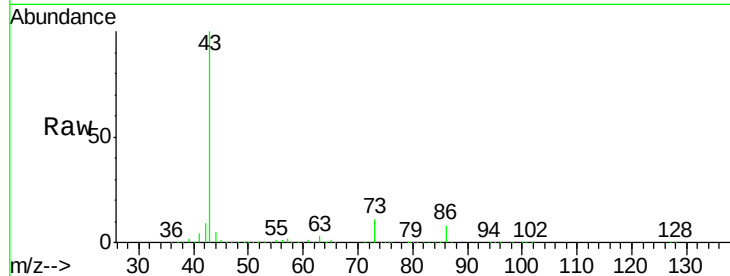




#23
 Vinyl Acetate
 Concen: 10.063 ppbv
 RT: 5.08
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 24 Jan 2022 14:31

Tgt Ion: 43 Resp: 1082868

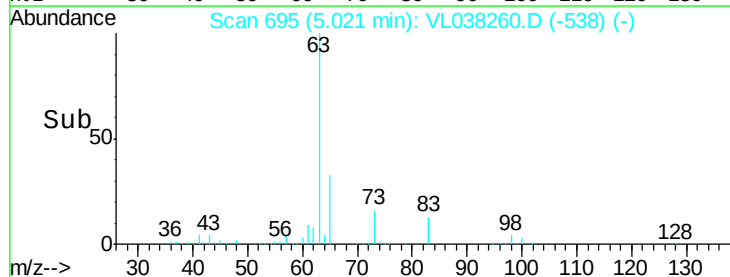
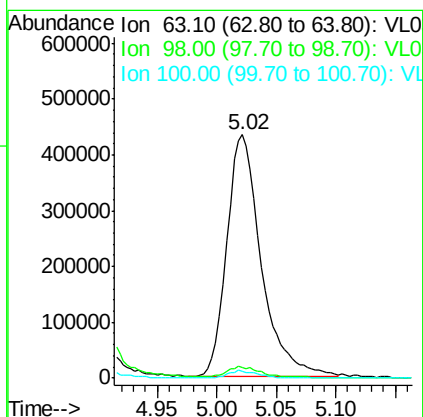
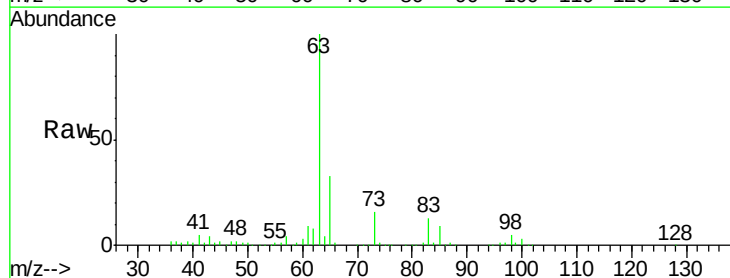
Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.7	8.5
42	8.4	7.7	11.5
44	4.8	4.2	6.4

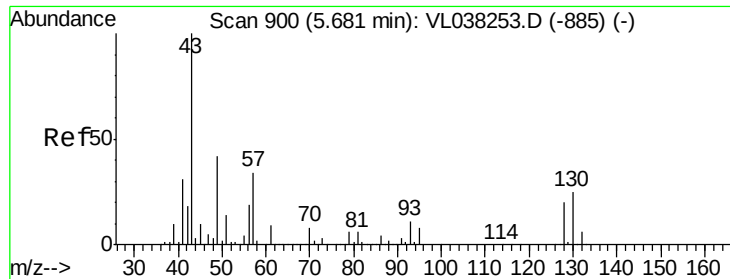


#24
 1,1-Dichloroethane
 Concen: 9.121 ppbv
 RT: 5.02 min Scan# 695
 Delta R.T.: 0.00 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

Tgt Ion: 63 Resp: 874359

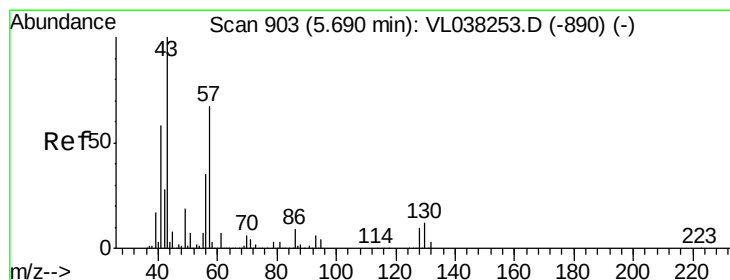
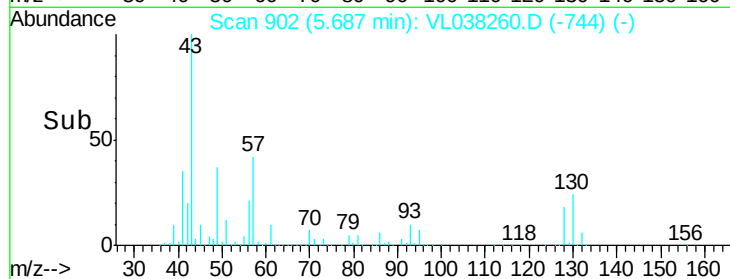
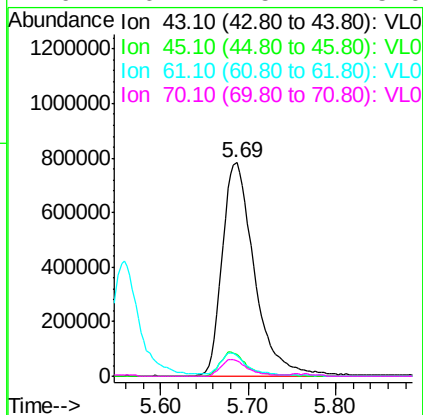
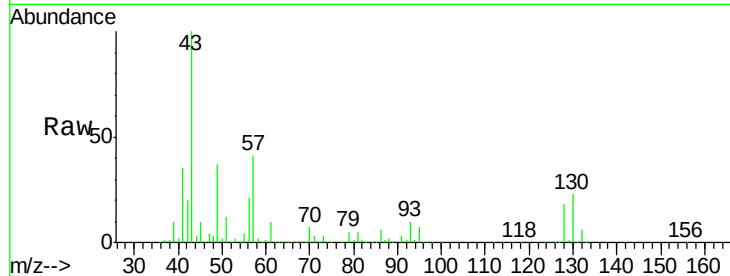
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.3	6.8
100	2.8	1.3	3.9





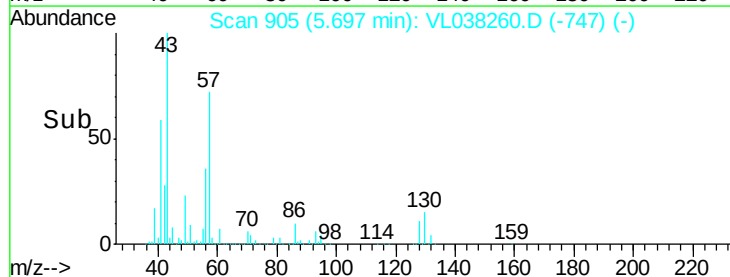
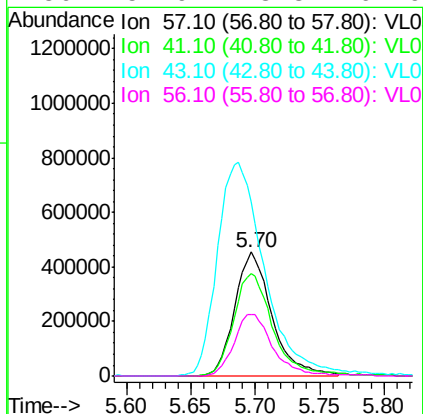
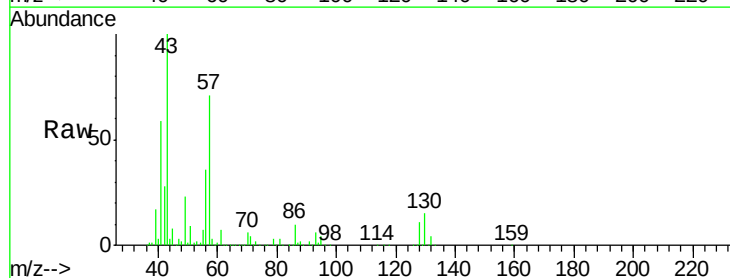
#25
Ethyl Acetate
Concen: 9.623 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
ICVVL012422
Acq: 24 Jan 2022 14:31

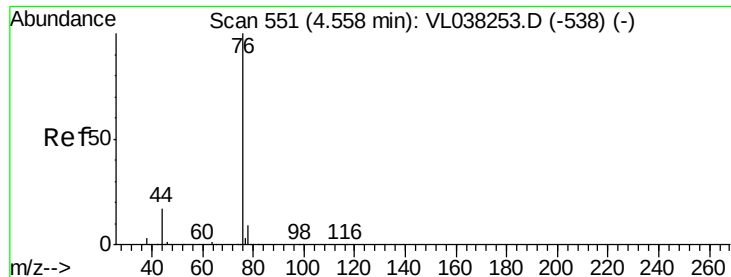
Tgt Ion:	43	Resp:	1994087
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.2	7.8	11.8
70	6.7	5.4	8.0



#26
Hexane
Concen: 9.505 ppbv
RT: 5.70 min Scan# 905
Delta R.T.: 0.01 min
Lab File: VL038260.D
Acq: 24 Jan 2022 14:31

Tgt Ion:	57	Resp:	916054
Ion	Ratio	Lower	Upper
57	100		
41	88.4	72.8	109.2
43	219.5	177.0	265.6
56	52.9	43.3	64.9





#27

Carbon Disulfide

Concen: 9.667 ppbv

RT: 4.56 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 24 Jan 2022 14:31

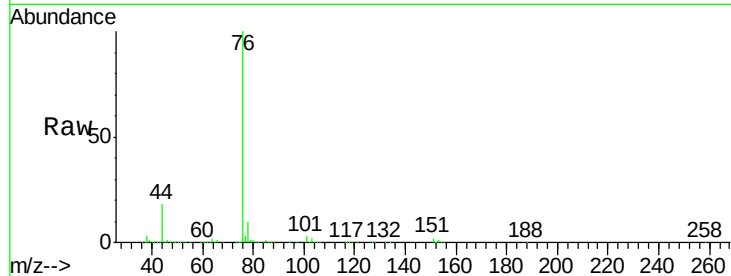
Tgt Ion: 76 Resp: 1090041

Ion Ratio Lower Upper

76 100

44 18.1 14.8 22.2

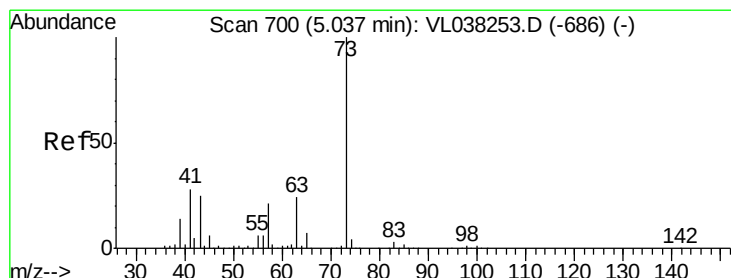
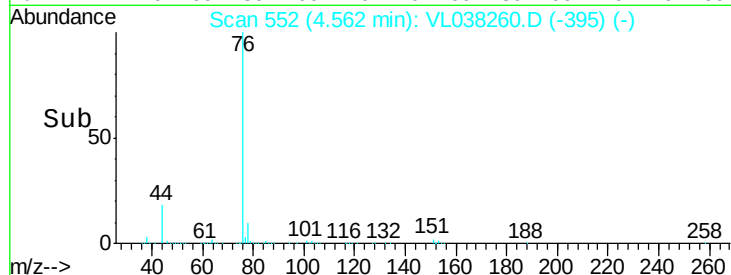
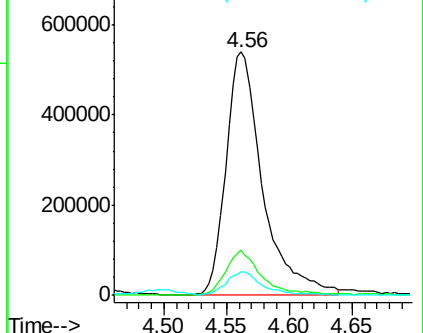
78 10.0 7.9 11.9



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: 9.617 ppbv

RT: 5.04 min Scan# 702

Delta R.T. 0.01 min

Lab File: VL038260.D

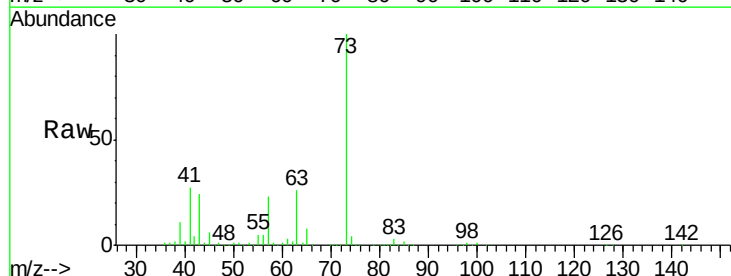
Acq: 24 Jan 2022 14:31

Tgt Ion: 73 Resp: 961564

Ion Ratio Lower Upper

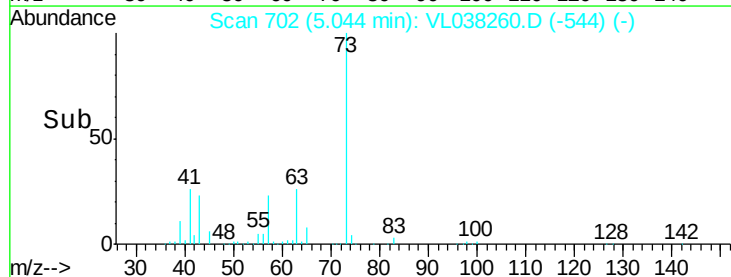
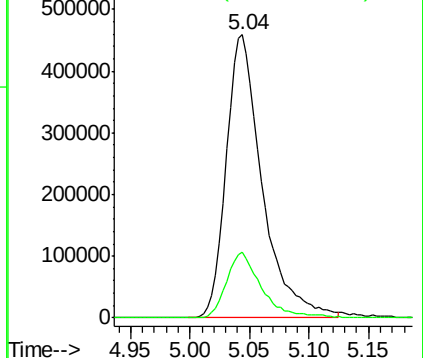
73 100

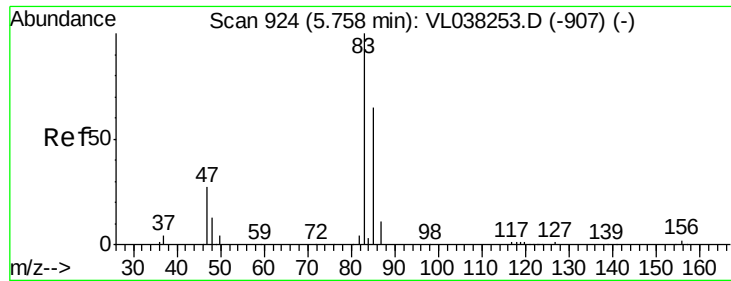
57 23.0 18.2 27.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

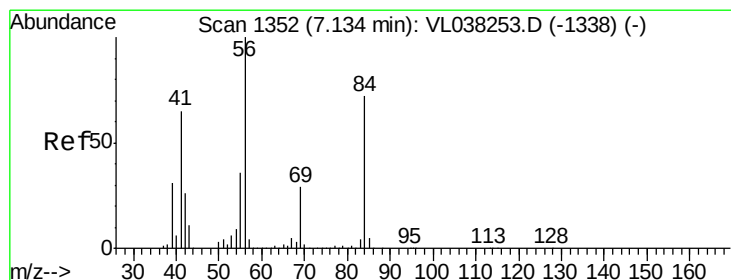
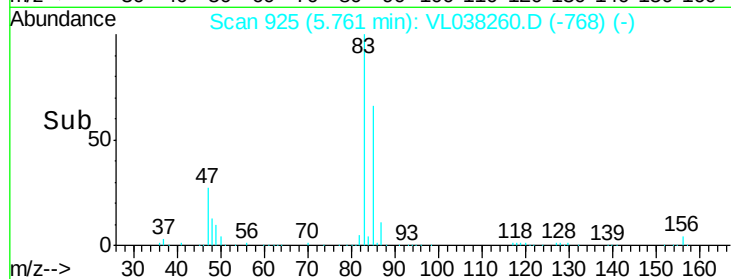
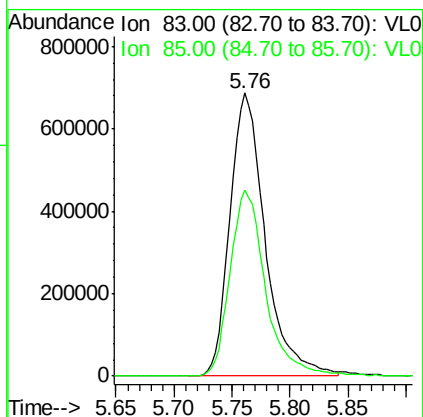
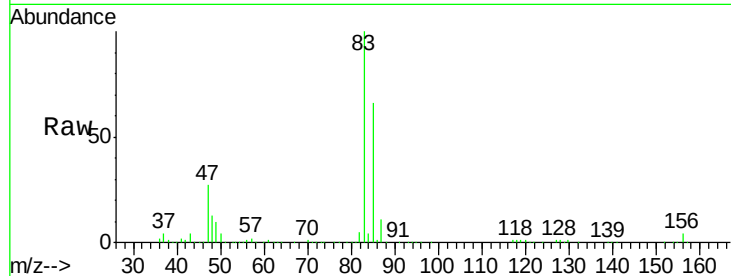
Ion 57.10 (56.80 to 57.80): VL0





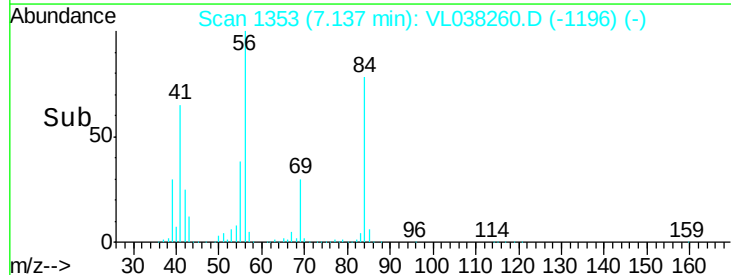
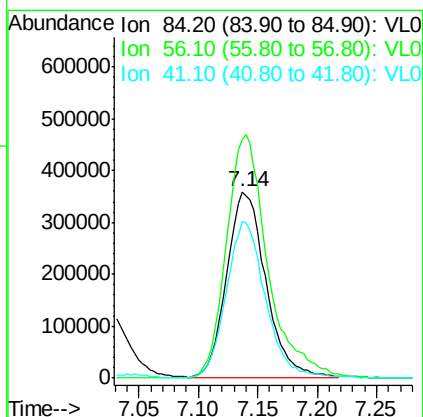
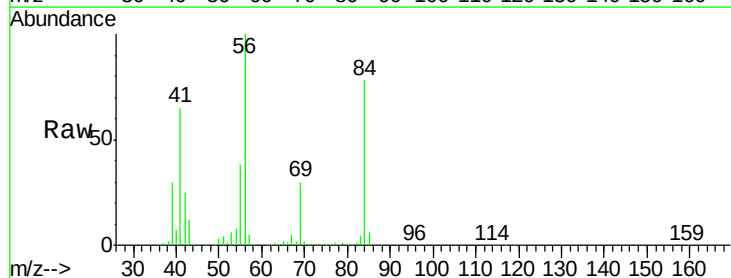
#29
Chloroform
Concen: 9.186 ppbv
RT: 5.76
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 14:31

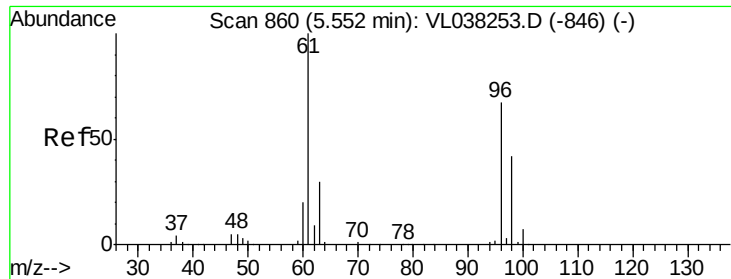
Tgt Ion: 83 Resp: 1445195
Ion Ratio Lower Upper
83 100
85 65.6 51.9 77.9



#30
Cyclohexane
Concen: 9.836 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL038260.D
Acq: 24 Jan 2022 14:31

Tgt Ion: 84 Resp: 825409
Ion Ratio Lower Upper
84 100
56 137.5 112.7 169.1
41 83.9 71.1 106.7





#31

cis-1,2-Dichloroethene

Concen: 10.633 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 14:31

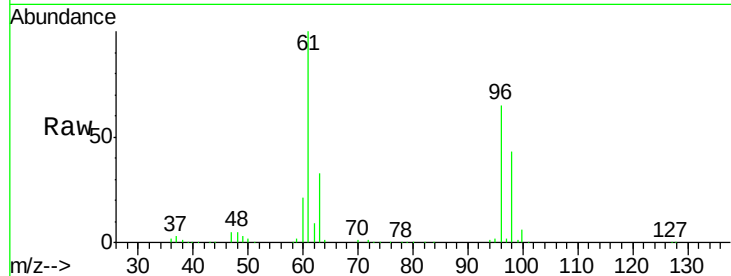
Tgt Ion: 61 Resp: 893996

Ion Ratio Lower Upper

61 100

96 65.0 53.3 79.9

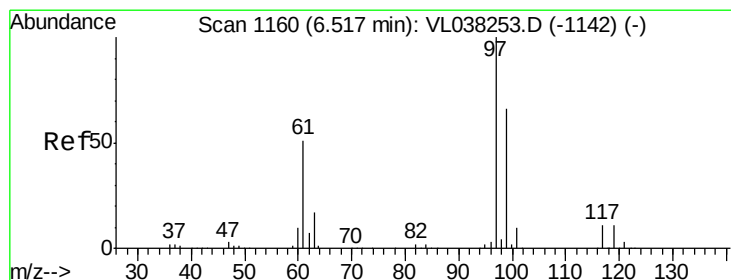
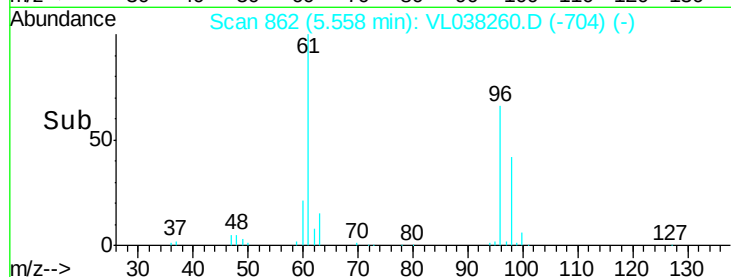
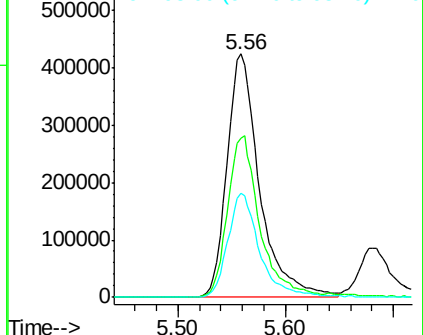
98 42.5 33.7 50.5



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.337 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VL038260.D

Acq: 24 Jan 2022 14:31

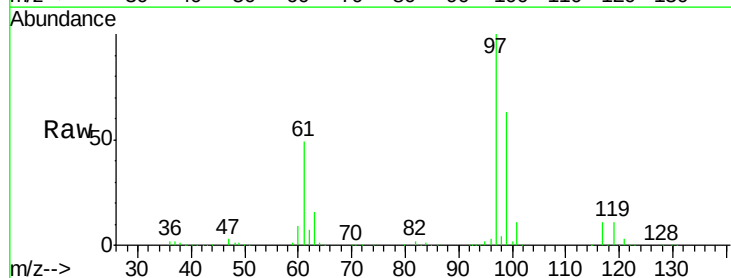
Tgt Ion: 97 Resp: 1467107

Ion Ratio Lower Upper

97 100

99 64.3 51.5 77.3

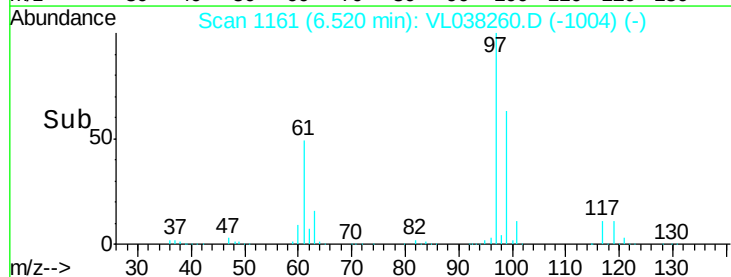
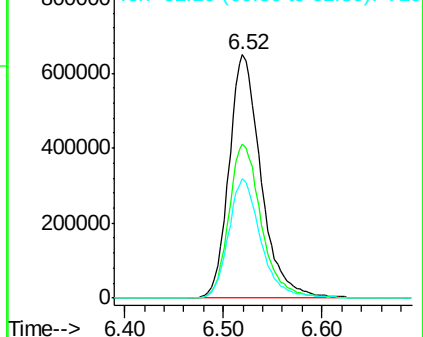
61 49.3 40.5 60.7

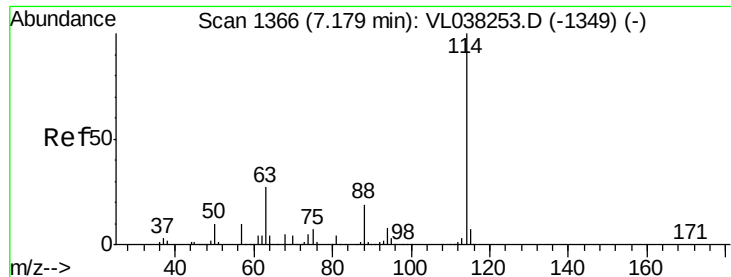


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

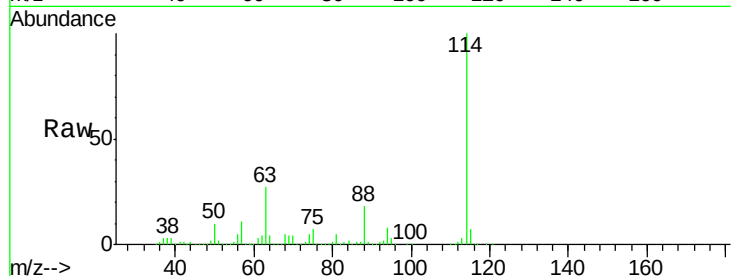




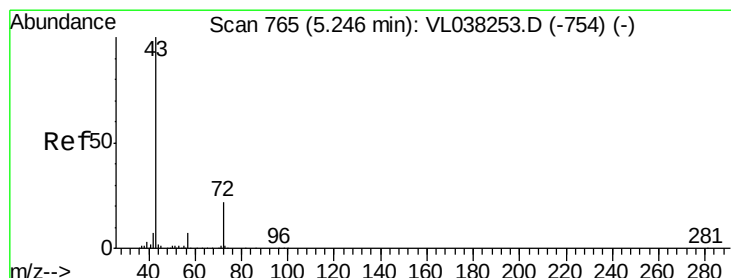
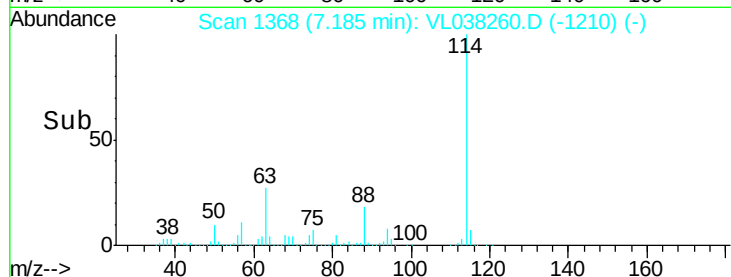
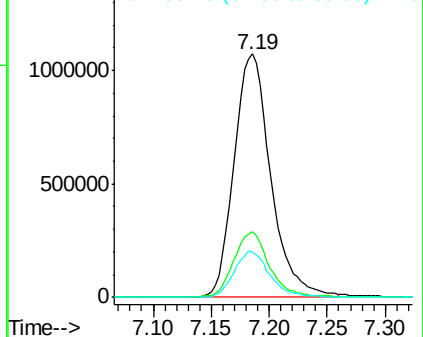
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 ICVVL012422
 Acq: 24 Jan 2022 14:31

Tgt Ion: 114 Resp: 2354923

Ion	Ratio	Lower	Upper
114	100		
63	26.6	22.0	33.0
88	18.6	15.0	22.6



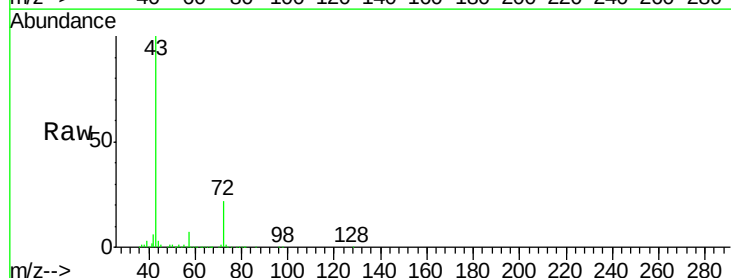
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



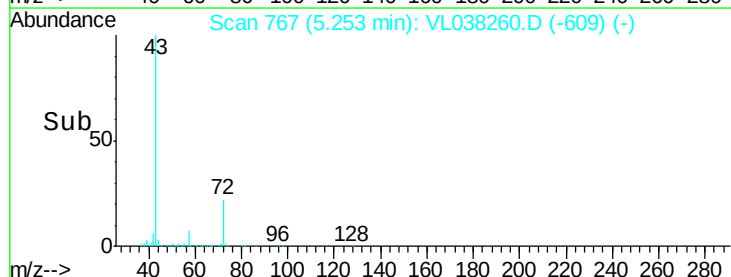
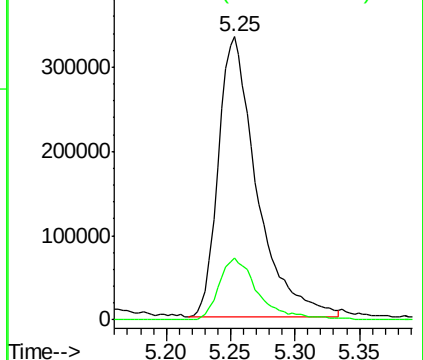
#34
 2-Butanone
 Concen: 8.935 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

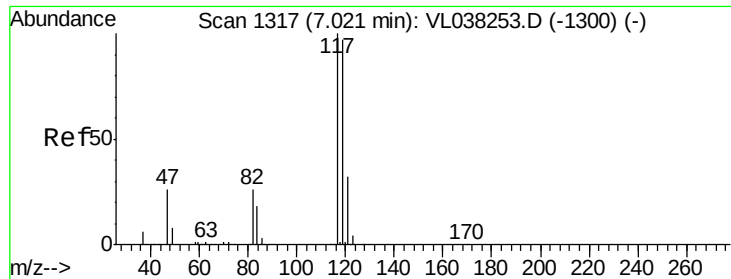
Tgt Ion: 43 Resp: 688127

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.1	27.1



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

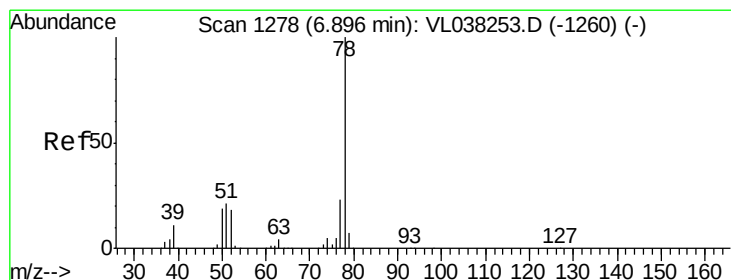
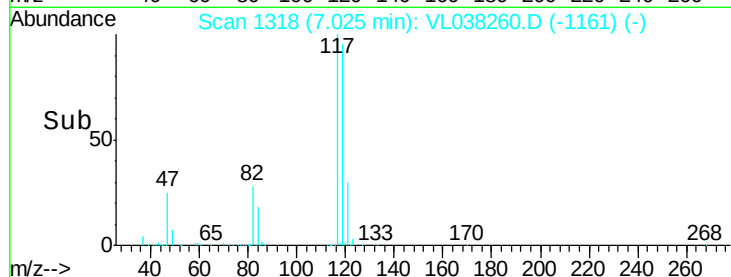
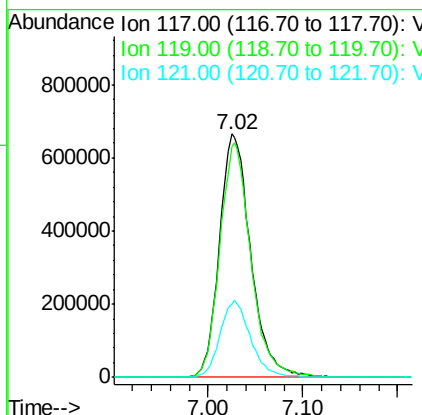
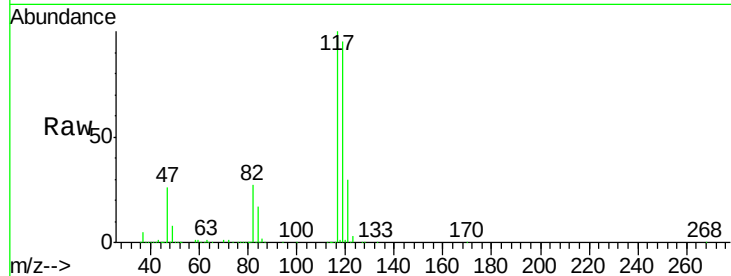




#35
 Carbon Tetrachloride
 Concen: 9.252 ppbv
 RT: 7.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 14:31

Tgt Ion: 117 Resp: 1529372

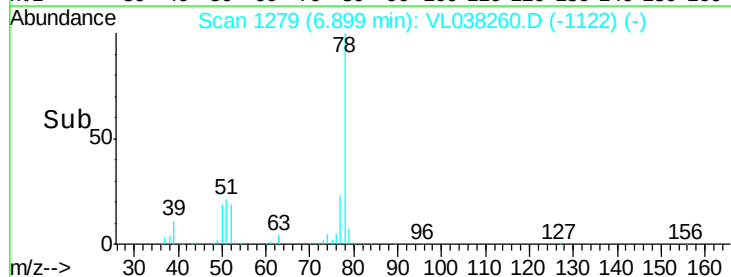
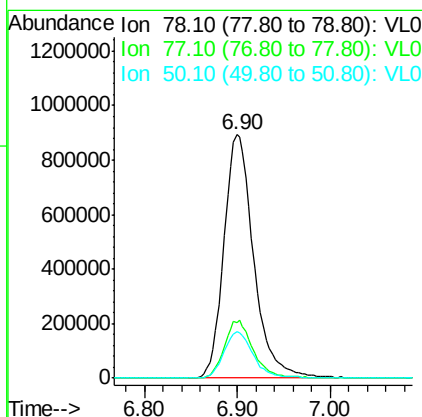
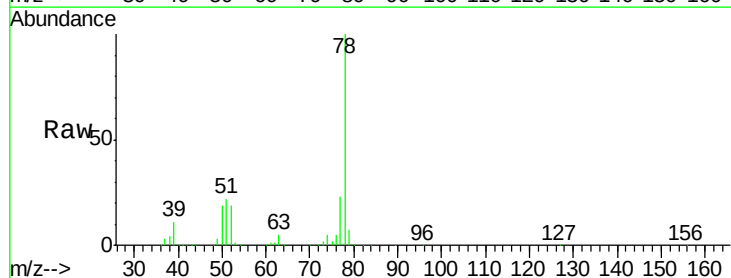
Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.9	116.9
121	30.3	25.4	38.2

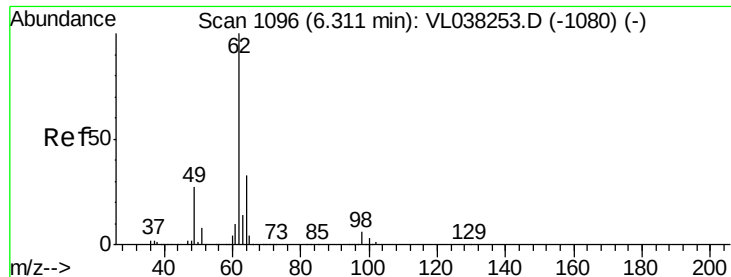


#36
 Benzene
 Concen: 9.547 ppbv
 RT: 6.90 min Scan# 1279
 Delta R.T. 0.00 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

Tgt Ion: 78 Resp: 1988728

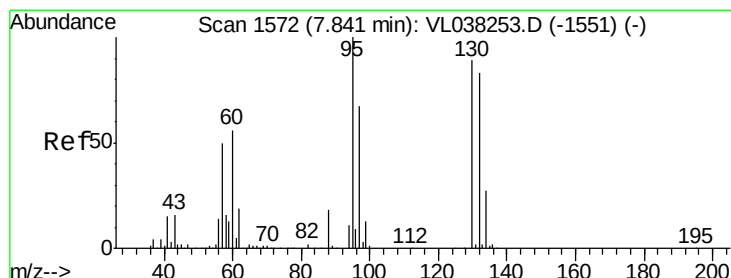
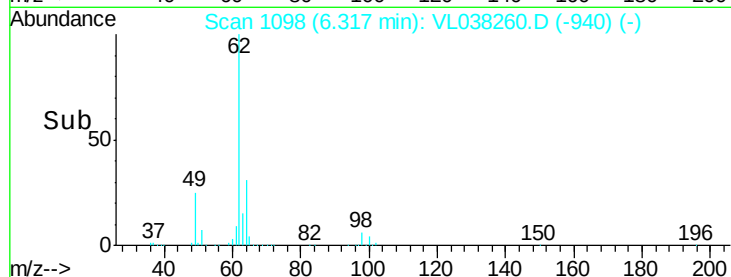
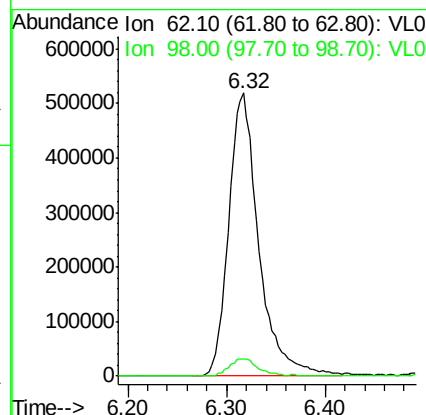
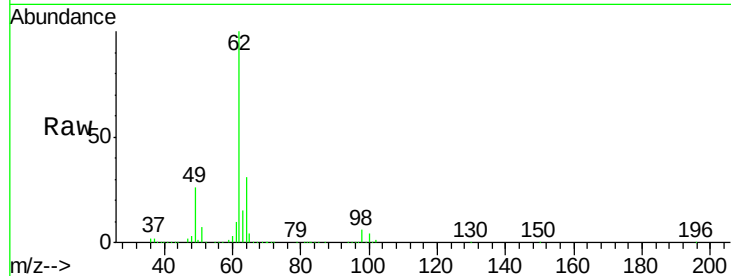
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.2	27.2
50	19.2	15.1	22.7





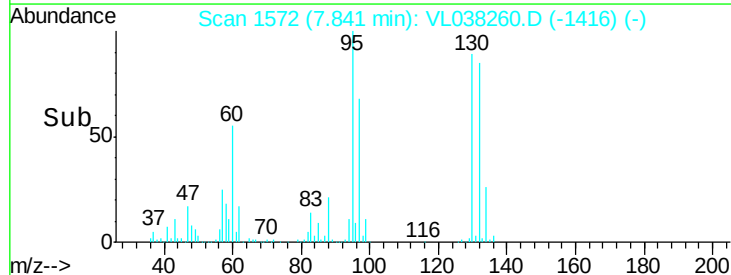
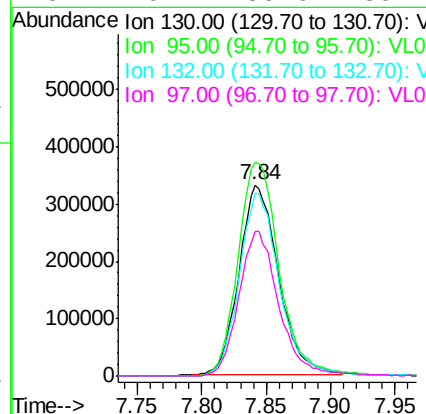
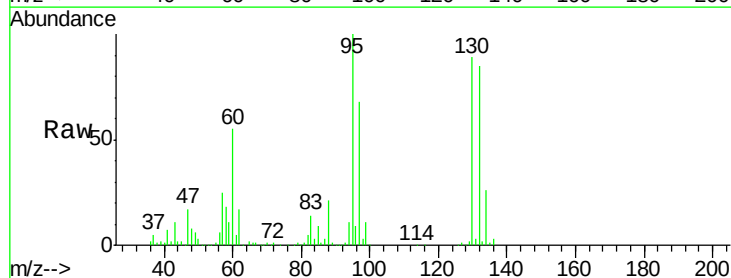
#37
 1,2-Dichloroethane
 Concen: 9.289 ppbv
 RT: 6.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 14:31

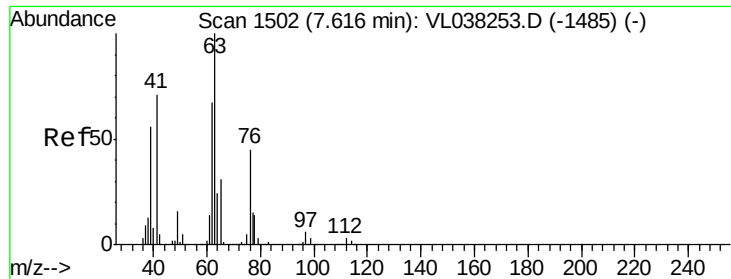
Tgt Ion: 62 Resp: 1108253
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.5 6.7



#38
 Trichloroethene
 Concen: 9.085 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

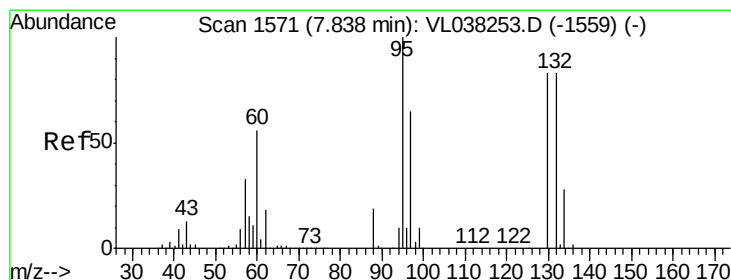
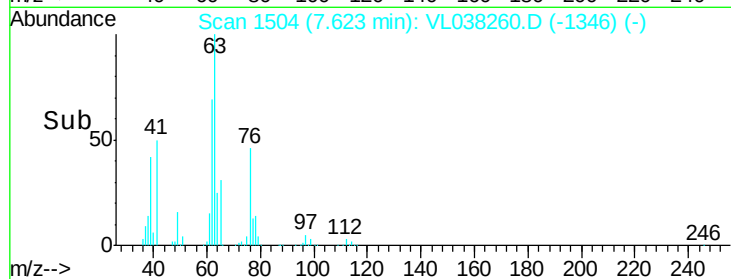
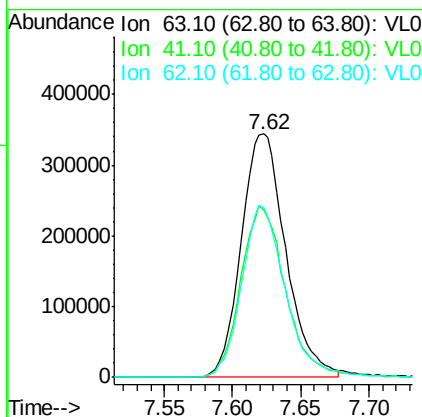
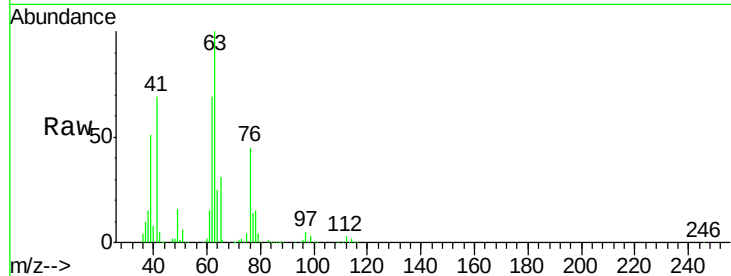
Tgt Ion: 130 Resp: 704946
 Ion Ratio Lower Upper
 130 100
 95 112.4 89.4 134.2
 132 96.0 74.6 111.8
 97 76.1 59.6 89.4





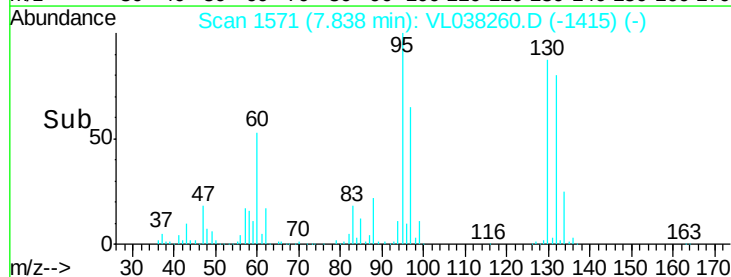
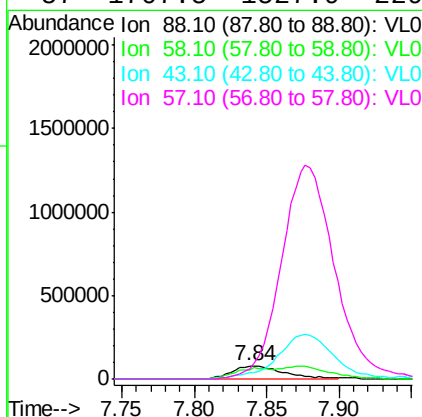
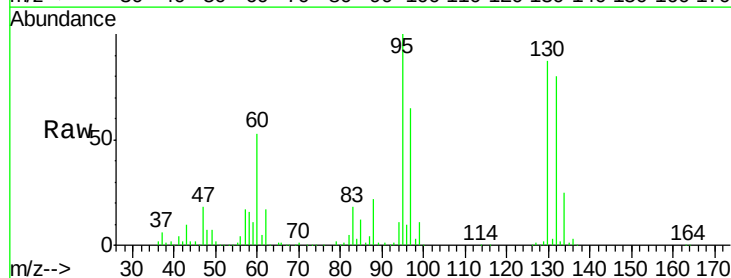
#39
 1,2-Dichloropropane
 Concen: 9.212 ppbv
 RT: 7.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 14:31

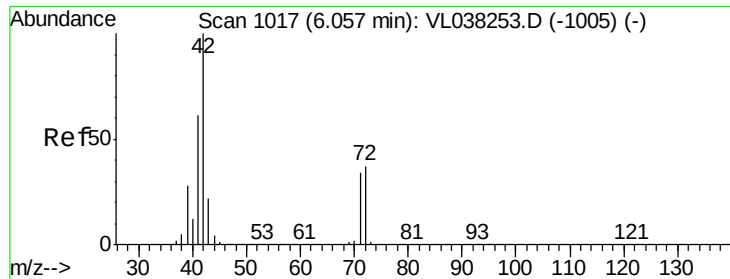
Tgt Ion: 63 Resp: 777933
 Ion Ratio Lower Upper
 63 100
 41 68.5 56.6 85.0
 62 69.4 53.9 80.9



#40
 1,4-Dioxane
 Concen: 9.495 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

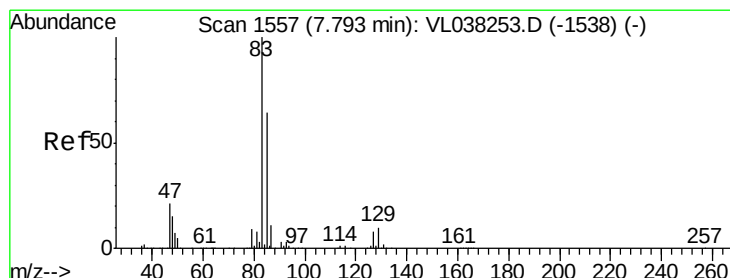
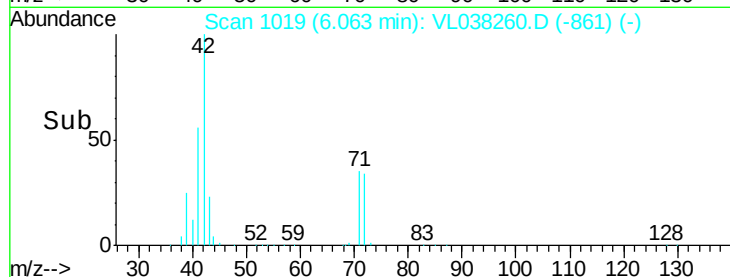
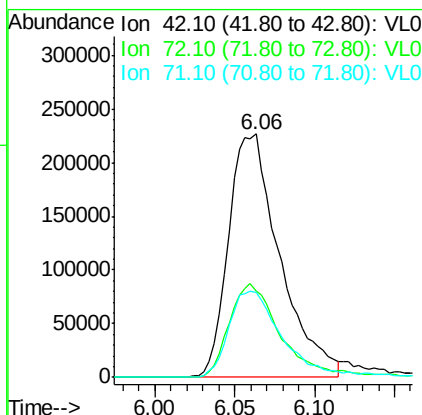
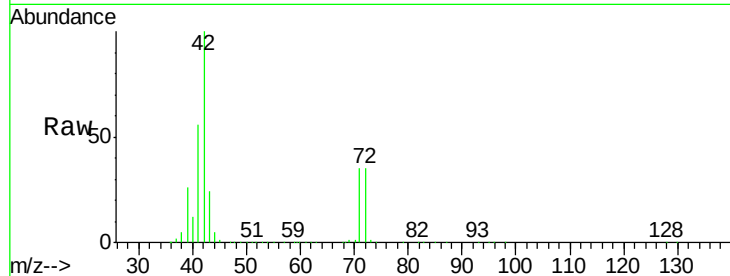
Tgt Ion: 88 Resp: 193003
 Ion Ratio Lower Upper
 88 100
 58 156.0 138.6 208.0
 43 385.0 346.9 520.3
 57 1707.5 1527.9 2291.9





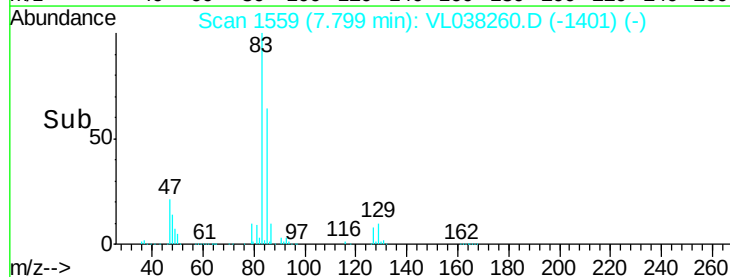
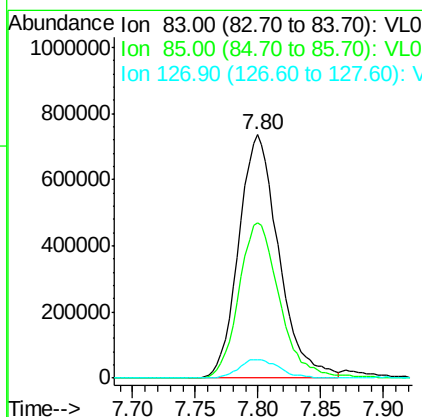
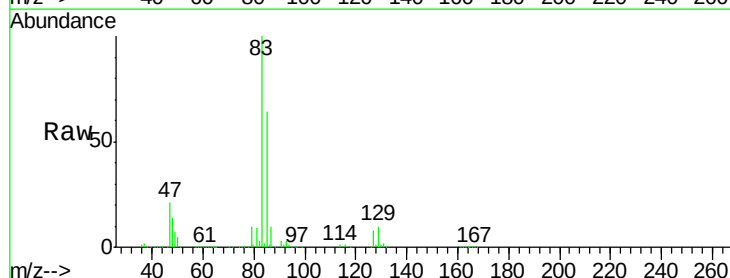
#41
Tetrahydrofuran
Concen: 9.557 ppbv
RT: 6.06
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 14:31

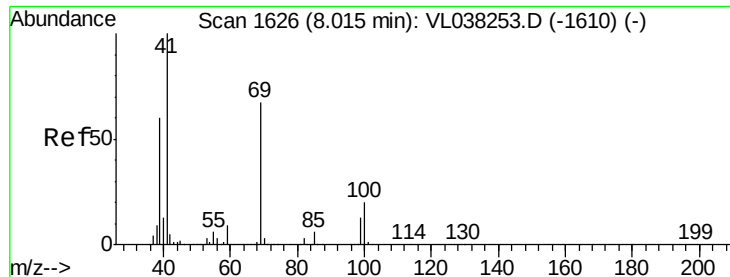
Tgt Ion: 42 Resp: 494755
Ion Ratio Lower Upper
42 100
72 39.9 29.7 44.5
71 38.4 29.4 44.2



#42
Bromodichloromethane
Concen: 9.244 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. 0.01 min
Lab File: VL038260.D
Acq: 24 Jan 2022 14:31

Tgt Ion: 83 Resp: 1636352
Ion Ratio Lower Upper
83 100
85 63.7 51.5 77.3
127 7.6 6.2 9.4





#43

Methyl Methacrylate

Concen: 10.166 ppbv

RT: 8.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 14:31

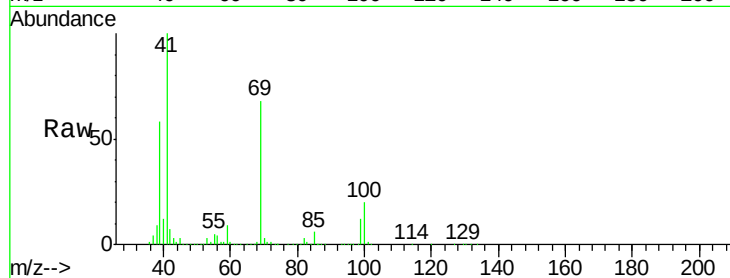
Tgt Ion: 69 Resp: 748995

Ion Ratio Lower Upper

69 100

41 151.6 120.9 181.3

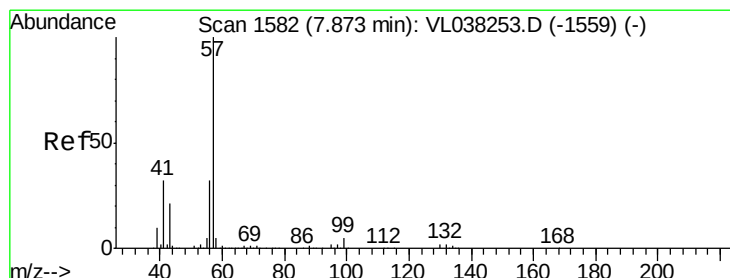
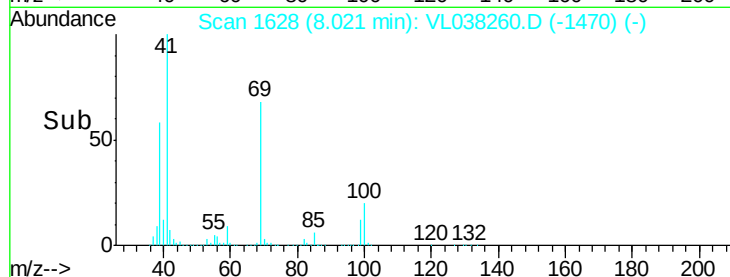
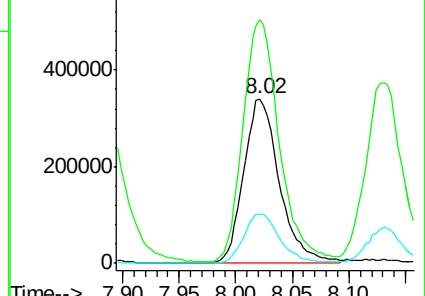
100 30.4 23.4 35.0



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 8.951 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VL038260.D

Acq: 24 Jan 2022 14:31

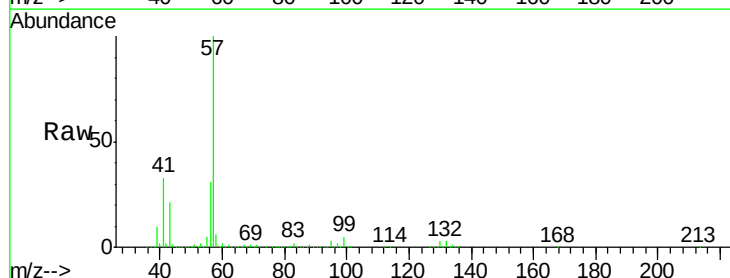
Tgt Ion: 57 Resp: 3285871

Ion Ratio Lower Upper

57 100

41 32.6 26.3 39.5

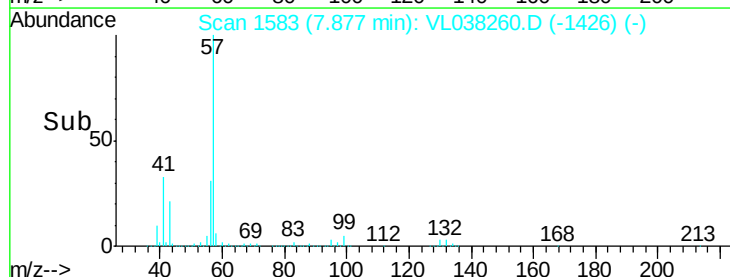
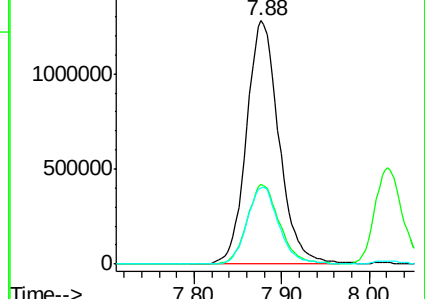
56 31.2 25.2 37.8

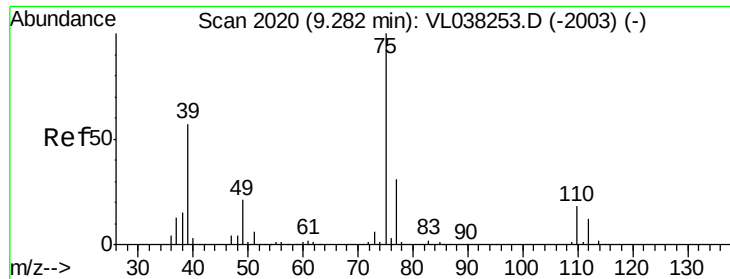


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 11.309 ppbv

RT: 9.28 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

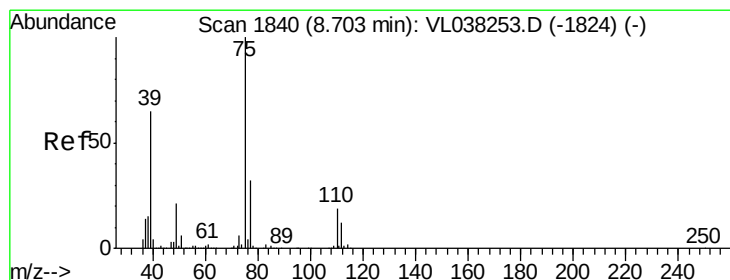
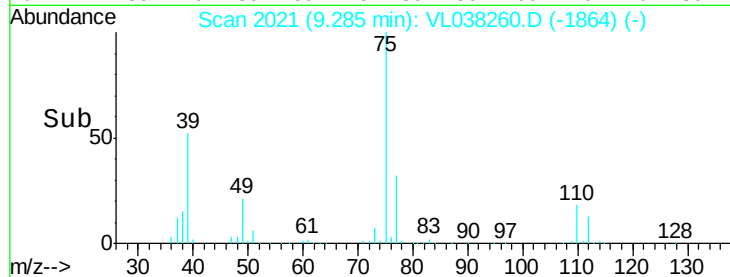
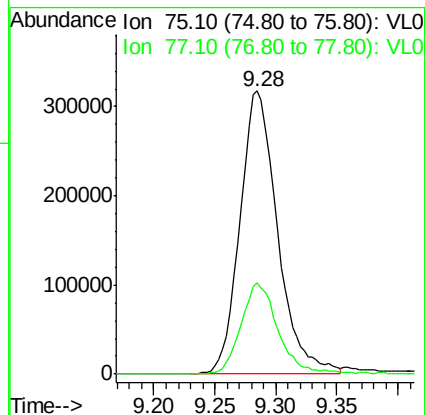
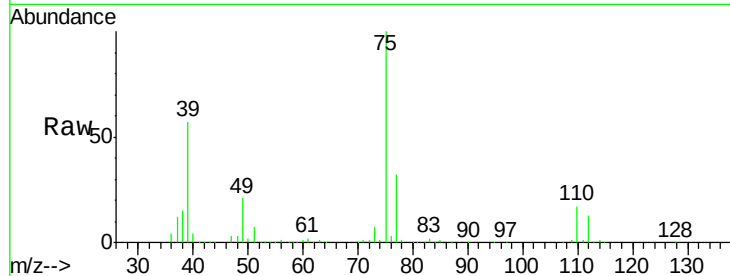
Acq: 24 Jan 2022 14:31

Tgt Ion: 75 Resp: 676997

Ion Ratio Lower Upper

75 100

77 32.5 24.9 37.3



#46

cis-1,3-Dichloropropene

Concen: 10.481 ppbv

RT: 8.71 min Scan# 1842

Delta R.T. 0.01 min

Lab File: VL038260.D

Acq: 24 Jan 2022 14:31

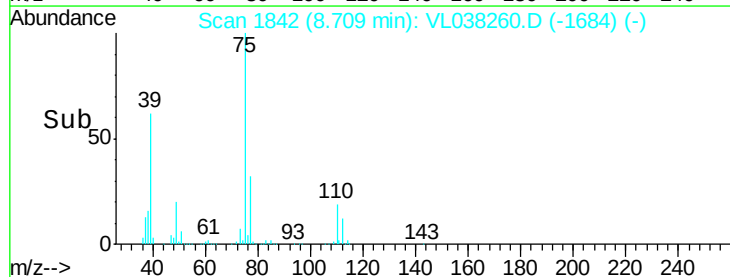
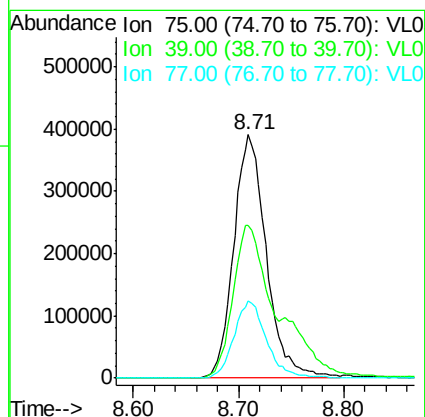
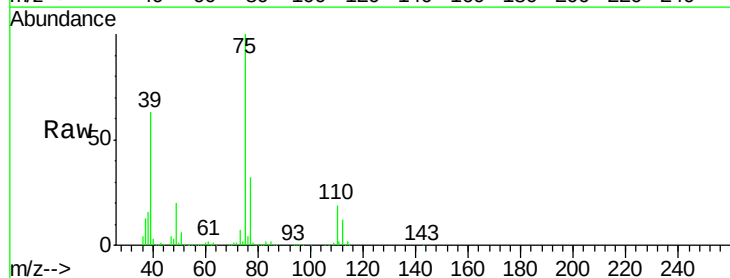
Tgt Ion: 75 Resp: 837147

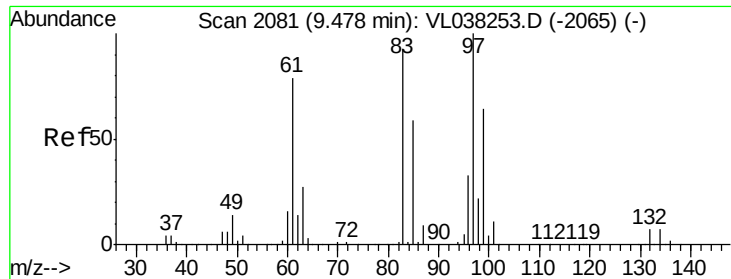
Ion Ratio Lower Upper

75 100

39 62.7 52.3 78.5

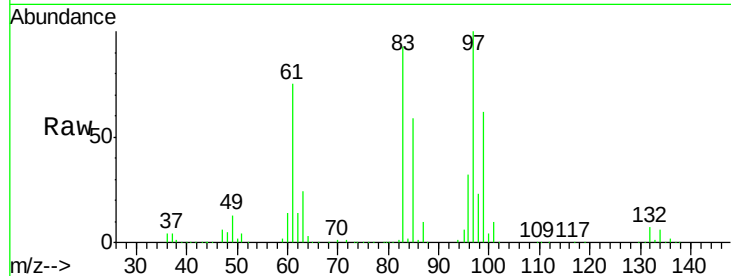
77 31.8 25.4 38.0



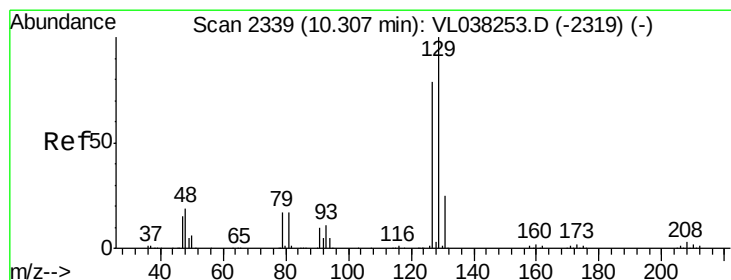
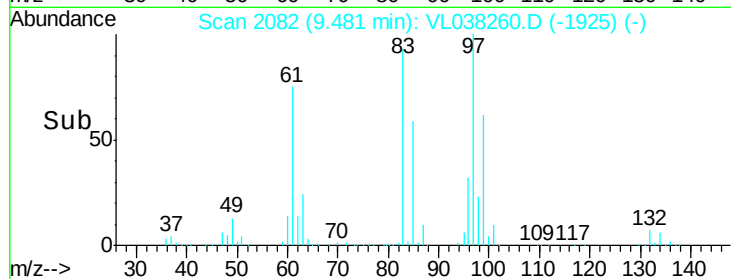
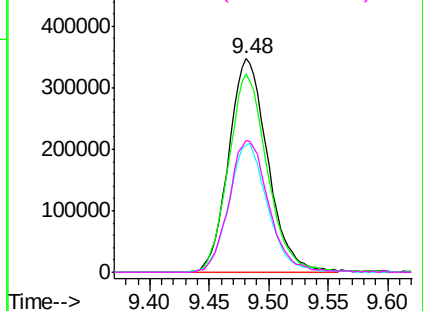


#47
 1,1,2-Trichloroethane
 Concen: 9.505 ppbv
 RT: 9.48
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 14:31

Tgt Ion:	97	Resp:	788756
Ion	Ratio	Lower	Upper
97	100		
83	92.9	74.3	111.5
85	59.1	47.5	71.3
99	61.5	51.1	76.7

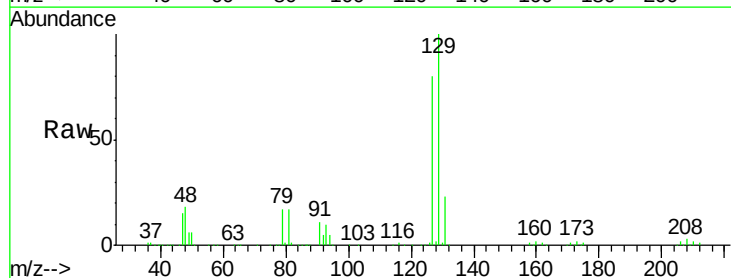


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

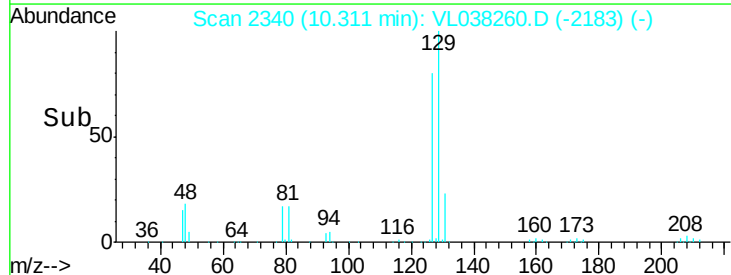
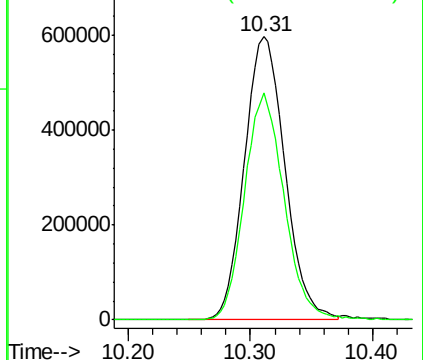


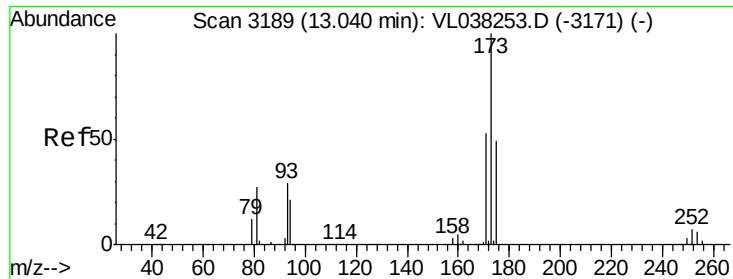
#48
 Dibromochloromethane
 Concen: 9.783 ppbv
 RT: 10.31 min Scan# 2340
 Delta R.T. 0.00 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

Tgt Ion:	129	Resp:	1366751
Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.1	117.3



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.553 ppbv

RT: 13.05

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

ICVVL012422

Acq: 24 Jan 2022 14:31

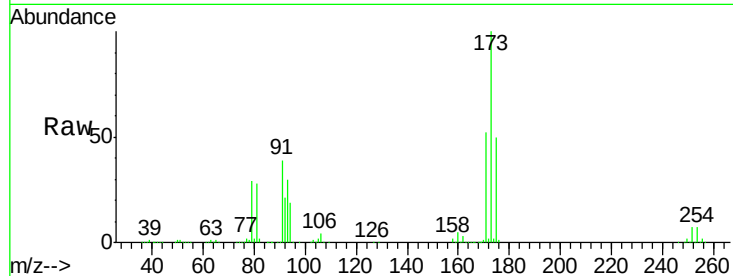
Tgt Ion: 173 Resp: 1062811

Ion Ratio Lower Upper

173 100

175 49.0 39.7 59.5

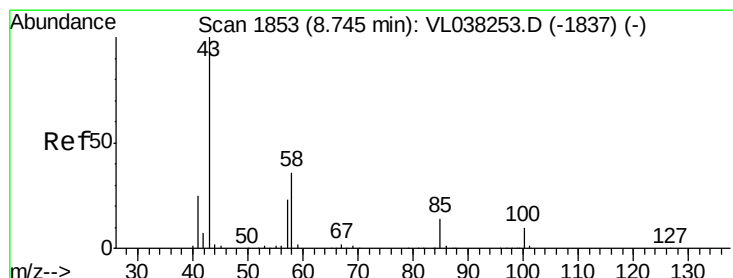
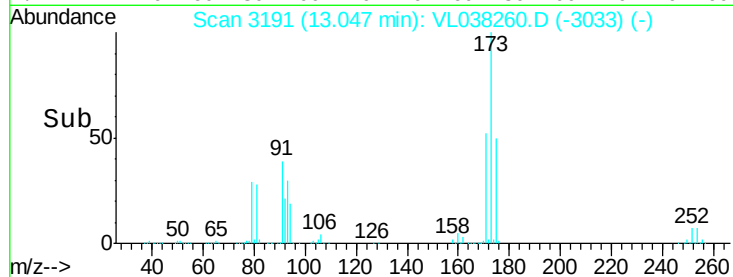
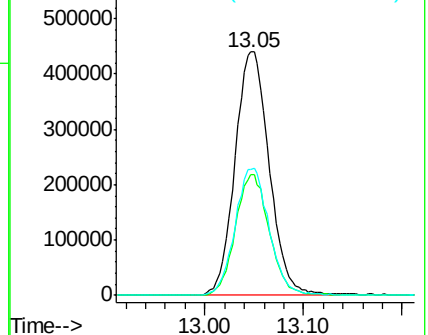
171 51.9 42.1 63.1



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.513 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL038260.D

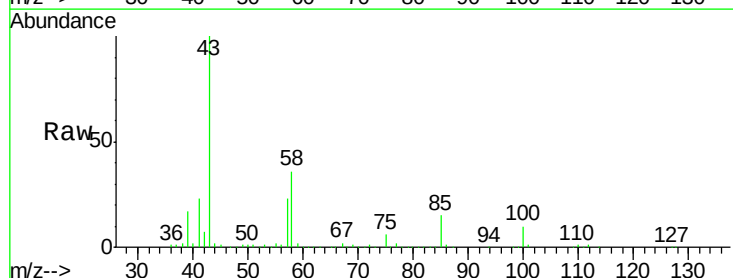
Acq: 24 Jan 2022 14:31

Tgt Ion: 43 Resp: 1306988

Ion Ratio Lower Upper

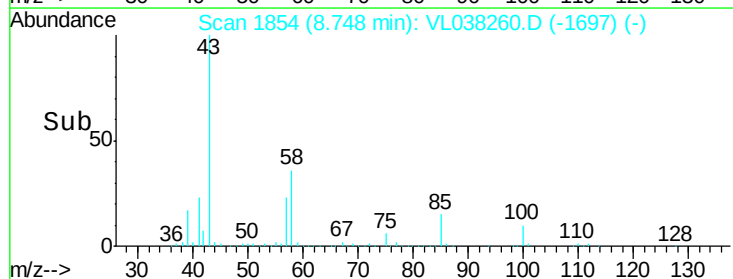
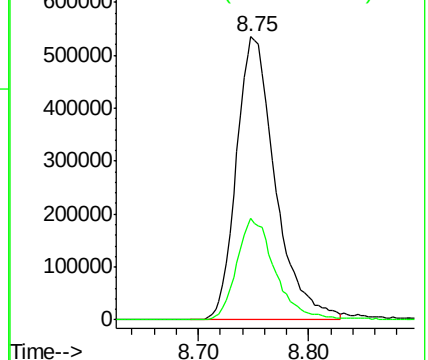
43 100

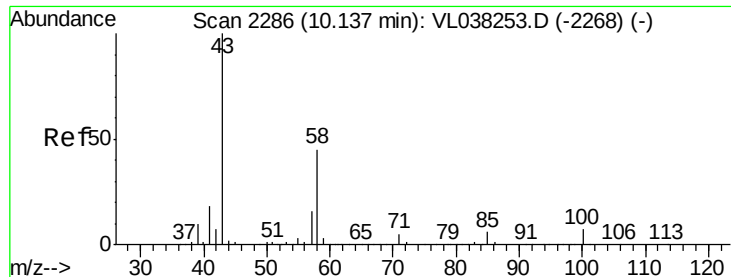
58 35.9 28.2 42.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.682 ppbv

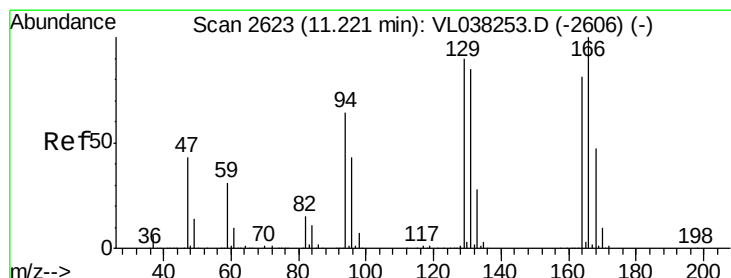
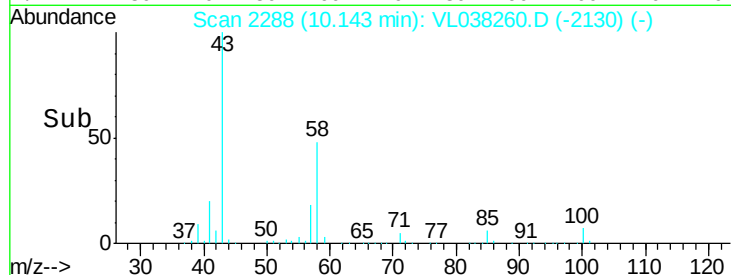
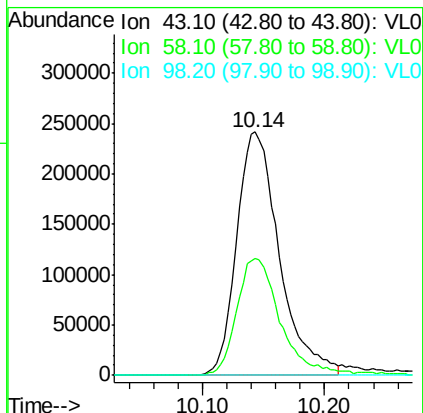
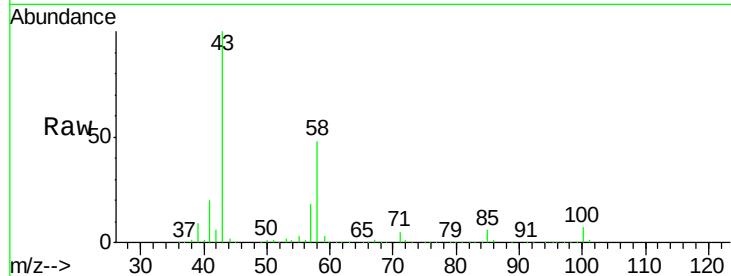
RT: 10.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 14:31

Tgt Ion:	43	Resp:	585797
Ion	Ratio	Lower	Upper
43	100		
58	50.2	37.0	55.4
98	0.3	0.2	0.2#



#52

Tetrachloroethene

Concen: 9.049 ppbv

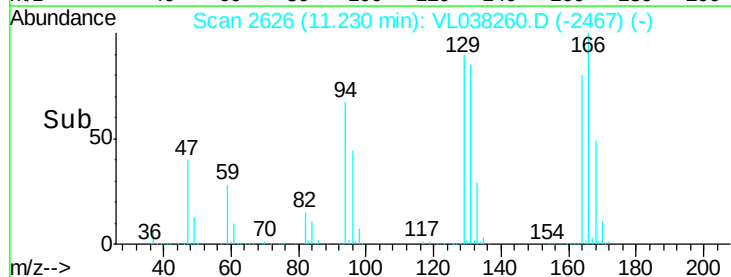
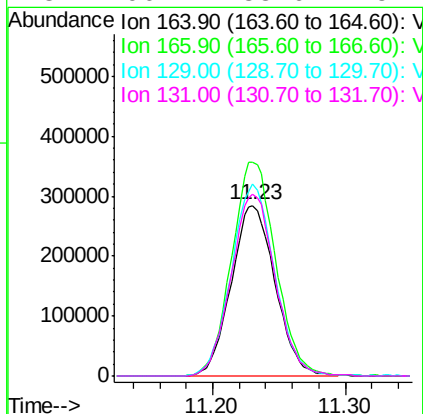
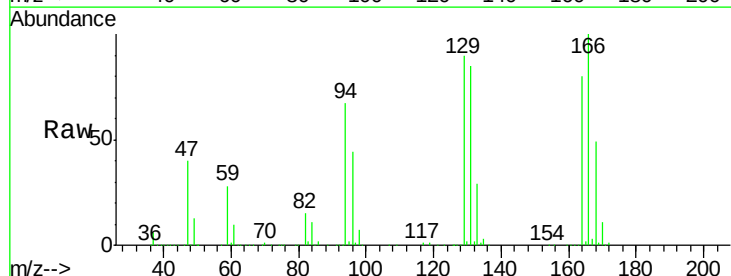
RT: 11.23 min Scan# 2626

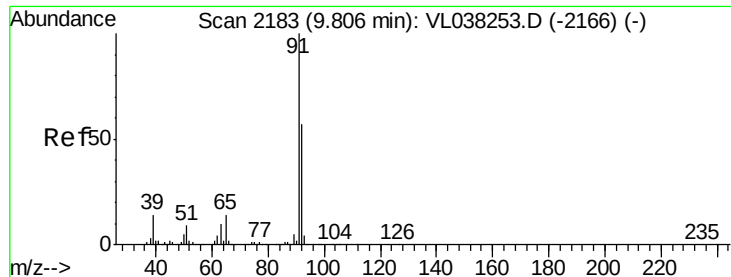
Delta R.T. 0.01 min

Lab File: VL038260.D

Acq: 24 Jan 2022 14:31

Tgt Ion:	164	Resp:	649674
Ion	Ratio	Lower	Upper
164	100		
166	124.6	98.8	148.2
129	111.9	89.2	133.8
131	106.4	83.6	125.4





#53

Toluene

Concen: 9.742 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

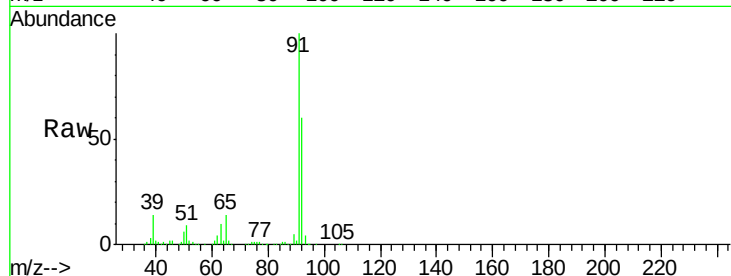
Acq: 24 Jan 2022 14:31

Tgt Ion: 91 Resp: 2246157

Ion Ratio Lower Upper

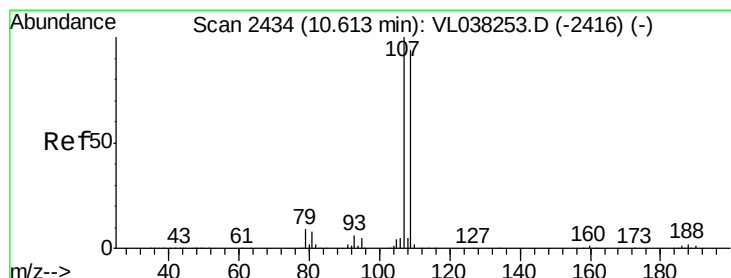
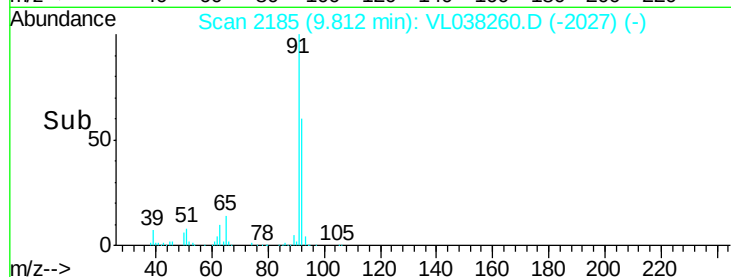
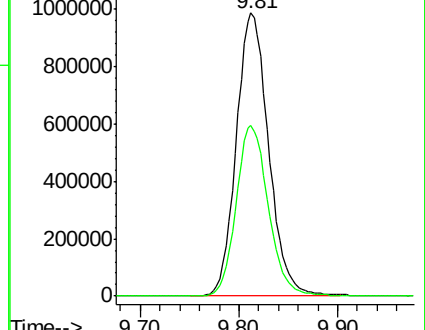
91 100

92 60.2 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.813 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL038260.D

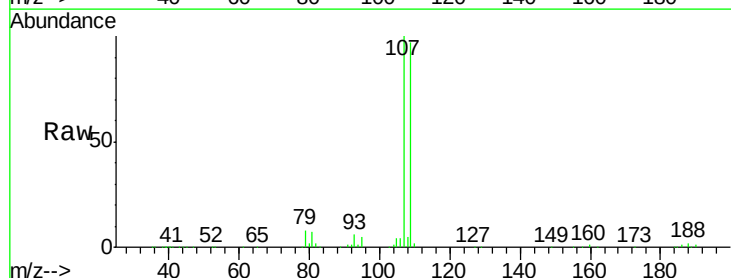
Acq: 24 Jan 2022 14:31

Tgt Ion: 107 Resp: 1157647

Ion Ratio Lower Upper

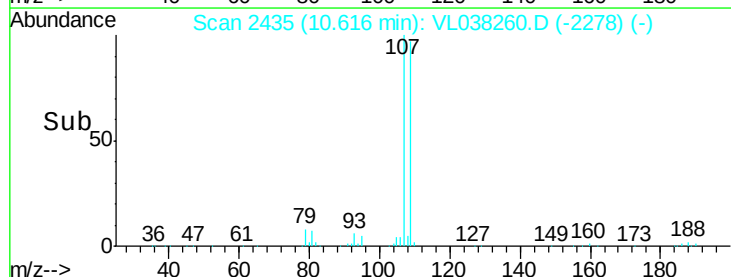
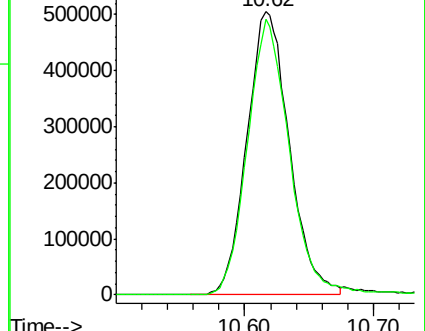
107 100

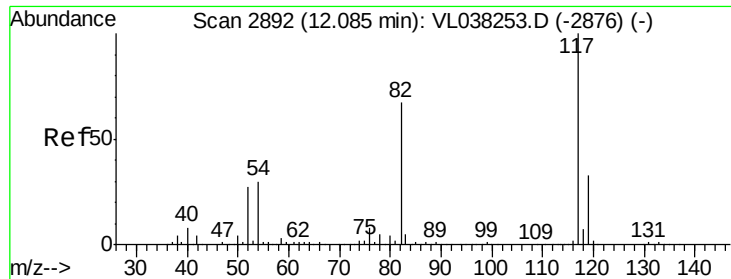
109 97.4 75.4 113.0



Abundance Ion 107.00 (106.70 to 107.70): V

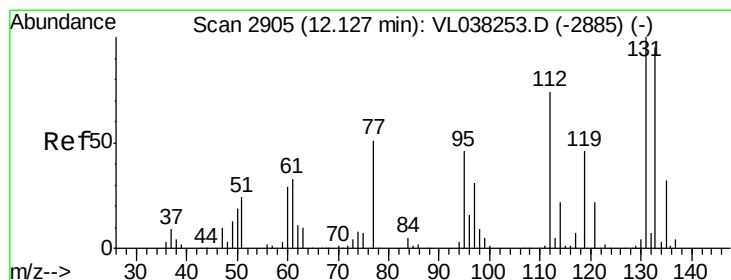
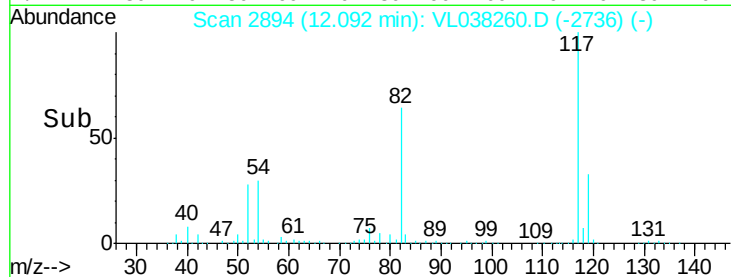
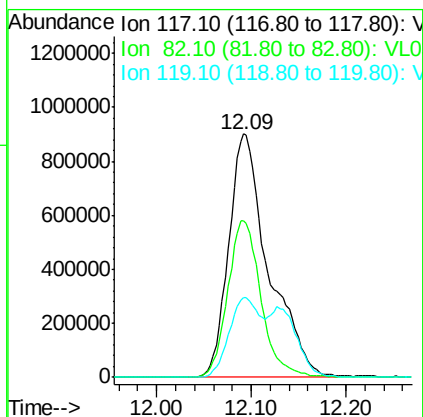
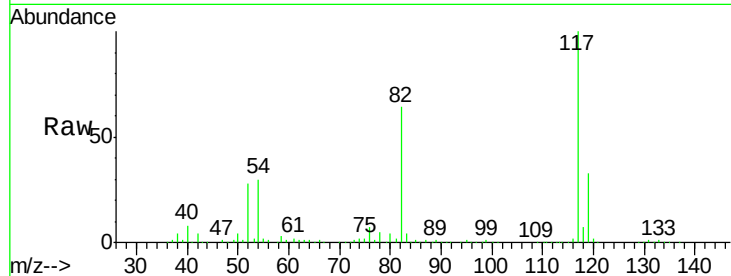
Ion 109.00 (108.70 to 109.70): V





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 ICVVL012422
 Acq: 24 Jan 2022 14:31

Tgt Ion:117 Resp: 2640454
 Ion Ratio Lower Upper
 117 100
 82 54.0 54.4 81.6#
 119 27.5 45.9 68.9#



#56
 1,1,1,2-Tetrachloroethane
 Concen: 7.585 ppbv
 RT: 12.13 min Scan# 2906
 Delta R.T. 0.00 min
 Lab File: VL038260.D
 Acq: 24 Jan 2022 14:31

Tgt Ion:131 Resp: 876610
 Ion Ratio Lower Upper
 131 100
 133 95.3 76.0 114.0
 119 62.4 53.0 79.4

