

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037830.D
 Acq On : 12 Oct 2021 14:22
 Operator : SY/AP
 Sample : VL1012ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1012ABS01

Quant Time: Oct 14 01:04:02 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1396960	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4131840	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4622560	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2664256	8.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	1664277	7.459	ppbv	99
3) Chlorodifluoromethane	2.99	51	2440316	9.092	ppbv	99
4) Chloromethane	3.14	50	902848	9.183	ppbv	92
5) Vinyl Chloride	3.26	62	936554	10.392	ppbv	99
6) Bromomethane	3.47	94	473720	9.717	ppbv	99
7) Chloroethane	3.55	64	330472	9.973	ppbv #	88
8) Dichlorotetrafluoroethane	3.19	85	2096445	9.506	ppbv	99
9) Propene	3.01	41	868849	8.797	ppbv	99
10) Heptane	8.11	43	2224665	9.918	ppbv	99
11) Trichlorofluoromethane	3.95	101	1920136	9.645	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1426341	9.456	ppbv	100
13) Ethanol	3.61	45	74690	9.247	ppbv	93
14) Bromoethene	3.74	108	662176	9.984	ppbv	95
15) Acetone	3.85	43	1079923	8.611	ppbv	99
16) 1,3-Butadiene	3.32	39	885487	9.705	ppbv	99
17) tert-Butyl alcohol	4.28	59	1269820	9.832	ppbv	98
18) 1,1-Dichloroethene	4.29	96	658582	9.607	ppbv	96
19) Isopropyl Alcohol	3.96	45	709224	9.091	ppbv #	95
20) Methylene Chloride	4.34	84	559074	8.823	ppbv	98
21) Allyl Chloride	4.40	41	1026262	9.238	ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	672129	9.753	ppbv	99
23) Vinyl Acetate	5.07	43	2113686	11.247	ppbv	98
24) 1,1-Dichloroethane	5.01	63	1407655	10.290	ppbv	99
25) Ethyl Acetate	5.67	43	3498142	9.941	ppbv	99
26) Hexane	5.68	57	1633132	9.425	ppbv	98
27) Carbon Disulfide	4.55	76	1603319	10.440	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1580482	10.955	ppbv	99
29) Chloroform	5.74	83	2343438	9.461	ppbv	100
30) Cyclohexane	7.12	84	1389929	9.459	ppbv	97
31) cis-1,2-Dichloroethene	5.54	61	1554183	9.880	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2247471	9.571	ppbv	100
34) 2-Butanone	5.24	43	1577465	9.457	ppbv	100
35) Carbon Tetrachloride	7.01	117	2369400	10.097	ppbv	98
36) Benzene	6.88	78	3418861	9.688	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1630558	9.812	ppbv	99
38) Trichloroethene	7.83	130	1336543	9.586	ppbv	95
39) 1,2-Dichloropropane	7.60	63	1299574	9.790	ppbv	97
40) 1,4-Dioxane	7.83	88	297188	8.947	ppbv #	100
41) Tetrahydrofuran	6.04	42	821097	10.053	ppbv	99
42) Bromodichloromethane	7.78	83	2462405	10.088	ppbv	99
43) Methyl Methacrylate	8.01	69	1214037	10.532	ppbv	98

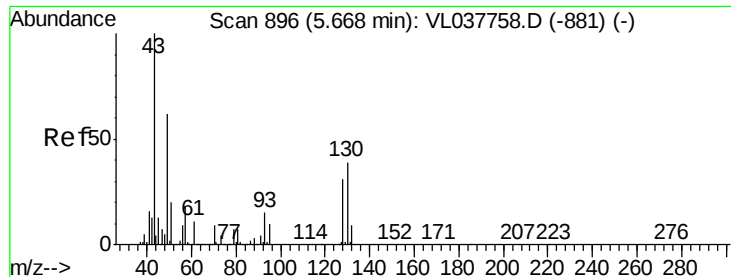
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037830.D
 Acq On : 12 Oct 2021 14:22
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Quant Time: Oct 14 01:04:02 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	5672547	9.567	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	933715	11.773	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	1239324	11.273	ppbv	100
47) 1,1,2-Trichloroethane	9.46	97	1363596	9.449	ppbv	99
48) Dibromochloromethane	10.29	129	2153743	10.469	ppbv	99
49) Bromoform	13.03	173	1724098	10.953	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	2213615	10.194	ppbv	100
51) 2-Hexanone	10.13	43	1028163	10.606	ppbv #	99
52) Tetrachloroethene	11.21	164	1216061	8.857	ppbv	91
53) Toluene	9.80	91	3950118	10.100	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1921547	9.858	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1493033	7.802	ppbv	98
57) Chlorobenzene	12.14	112	1364684	3.599	ppbv	99
58) Ethyl Benzene	12.70	91	4989786	8.039	ppbv	99
59) m/p-Xylene	12.99	91	4307370	8.084	ppbv #	33
60) o-Xylene	13.68	91	3964857	7.765	ppbv	99
61) Styrene	13.52	104	2176554	8.812	ppbv	99
62) Isopropylbenzene	14.66	105	5396632	7.577	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2823643	7.166	ppbv	98
64) n-propylbenzene	15.55	120	1455331	8.194	ppbv	99
65) tert-Butylbenzene	16.73	119	4808260	7.672	ppbv	100
66) Benzyl Chloride	16.98	91	255113	8.248	ppbv #	98
67) sec-Butylbenzene	17.28	105	6722953	7.843	ppbv	100
69) p-Isopropyltoluene	17.64	119	5514794	7.958	ppbv	99
70) n-Butylbenzene	18.54	91	5399130	8.201	ppbv	99
71) 2-Chlorotoluene	15.44	91	3974157	7.902	ppbv	100
72) 4-Ethyltoluene	15.82	105	4830243	8.331	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	4259569	8.088	ppbv	97
74) 1,2,4-Trimethylbenzene	16.75	105	4405752	7.966	ppbv	94
75) 1,3-Dichlorobenzene	16.98	146	2670028	7.792	ppbv	98
76) 1,4-Dichlorobenzene	17.13	146	2618996	8.013	ppbv	98
77) 1,2-Dichlorobenzene	17.80	146	2565185	7.793	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1778724	6.618	ppbv	99
79) Naphthalene	22.18	128	2868138	8.468	ppbv	98
80) Naphthalene,2-methyl-	24.96	142	653951	7.191	ppbv	99
81) 1,2,4-Trichlorobenzene	21.91	180	1734908	8.009	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1012ABS01

Acq: 12 Oct 2021 14:22

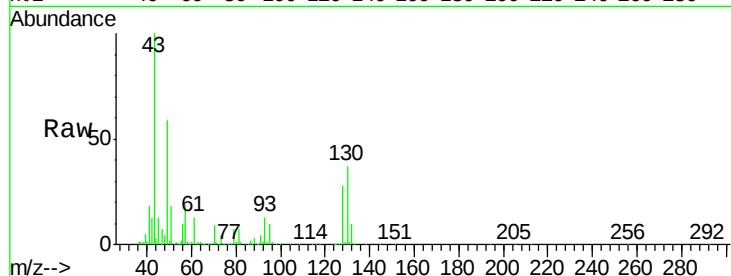
Tgt Ion: 49 Resp: 1396960

Ion Ratio Lower Upper

49 100

128 54.3 27.1 81.3

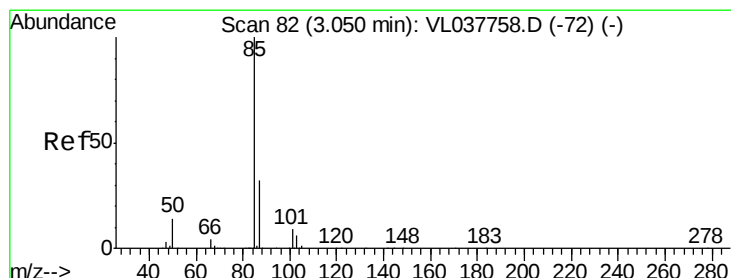
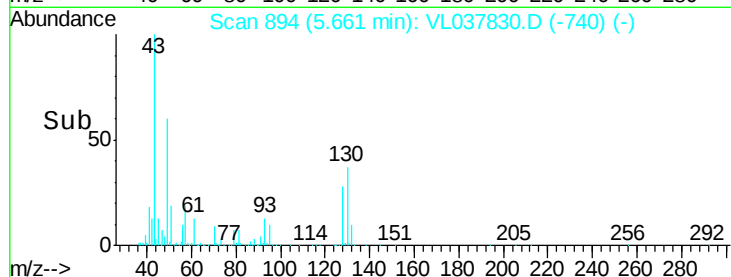
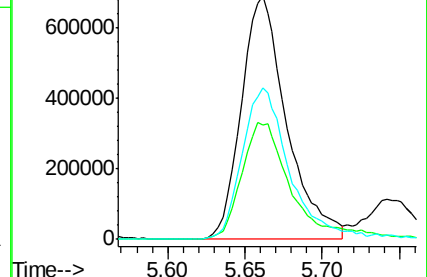
130 66.6 33.2 99.6



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: 7.459 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037830.D

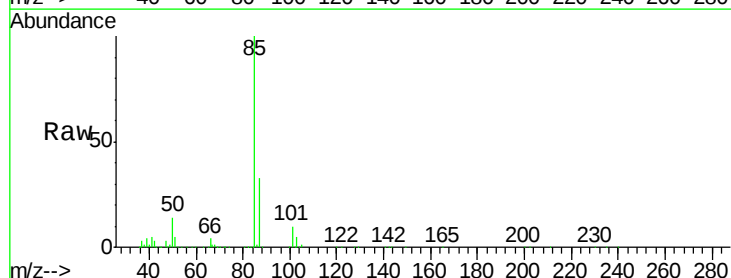
Acq: 12 Oct 2021 14:22

Tgt Ion: 85 Resp: 1664277

Ion Ratio Lower Upper

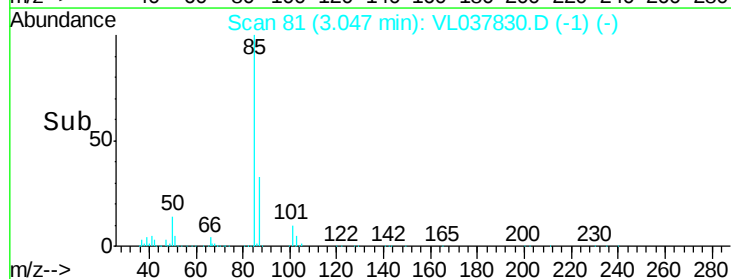
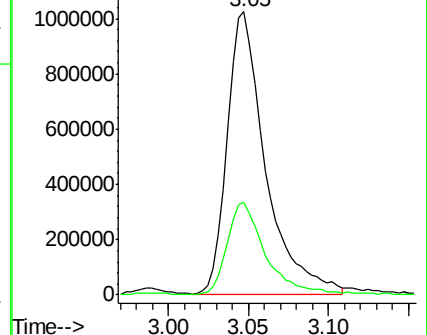
85 100

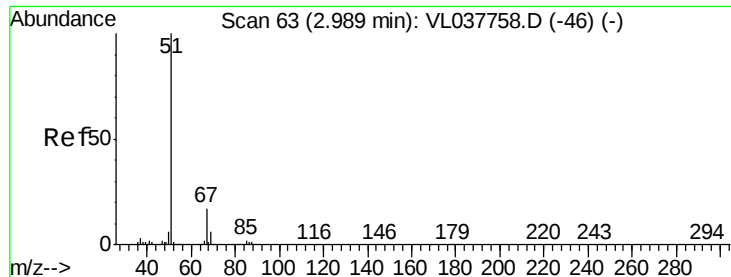
87 32.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.092 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1012ABS01

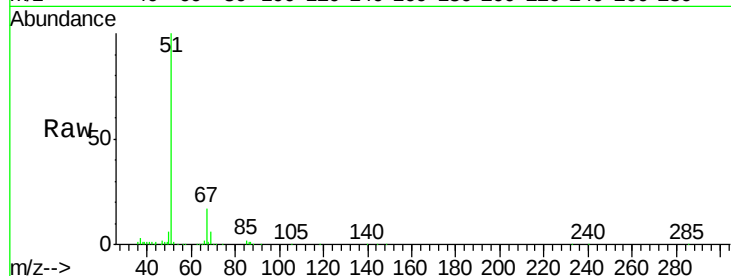
Acq: 12 Oct 2021 14:22

Tgt Ion: 51 Resp: 2440316

Ion Ratio Lower Upper

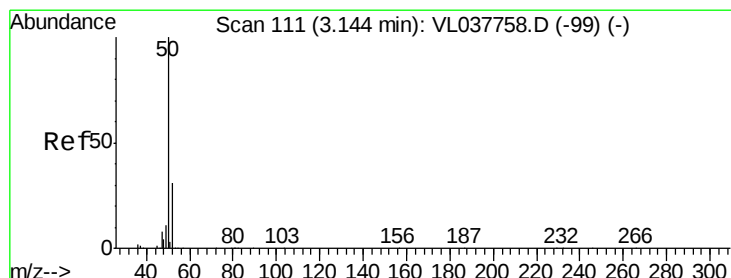
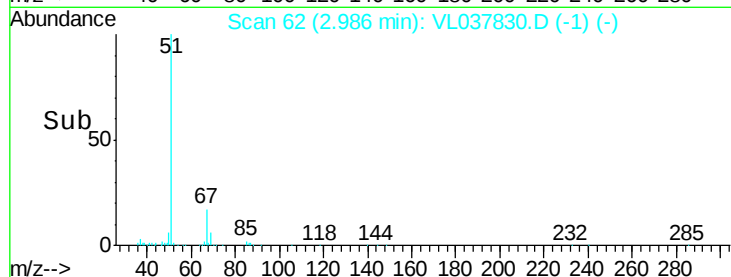
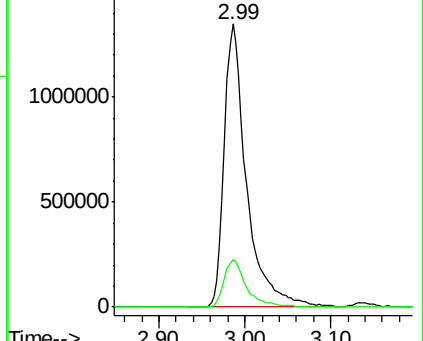
51 100

67 17.2 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.183 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037830.D

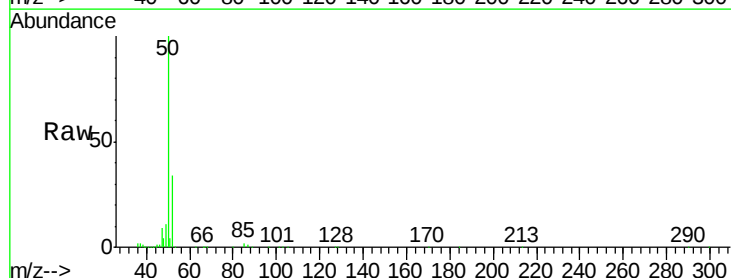
Acq: 12 Oct 2021 14:22

Tgt Ion: 50 Resp: 902848

Ion Ratio Lower Upper

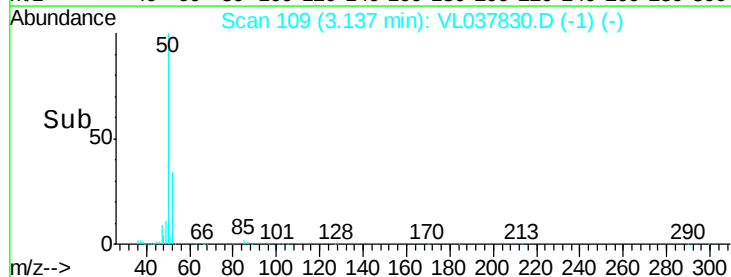
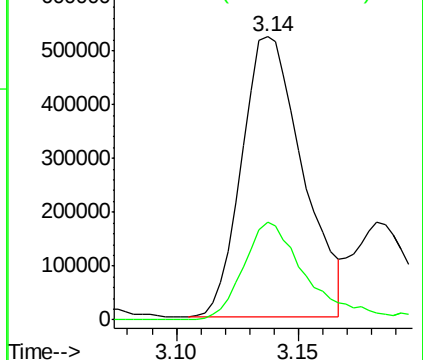
50 100

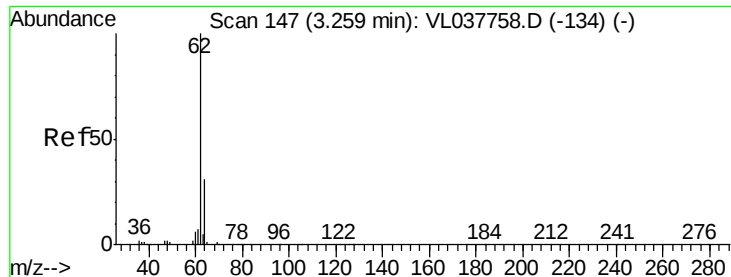
52 34.8 24.4 36.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.392 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

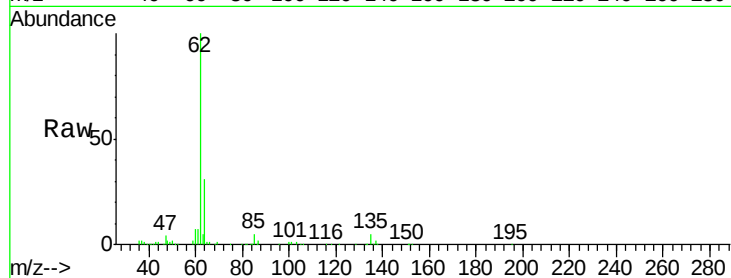
Acq: 12 Oct 2021 14:22 VL1012ABS01

Tgt Ion: 62 Resp: 936554

Ion Ratio Lower Upper

62 100

64 30.7 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

600000

500000

400000

300000

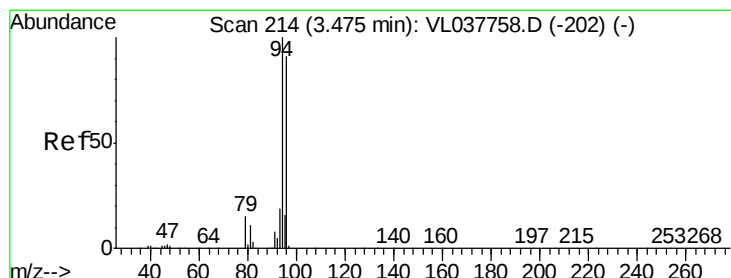
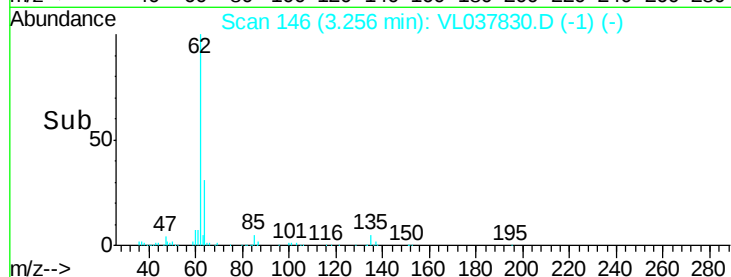
200000

100000

0

3.15 3.20 3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 9.717 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL037830.D

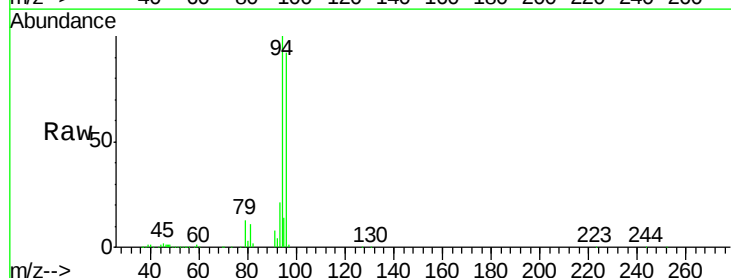
Acq: 12 Oct 2021 14:22

Tgt Ion: 94 Resp: 473720

Ion Ratio Lower Upper

94 100

96 91.8 72.5 108.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

250000

200000

150000

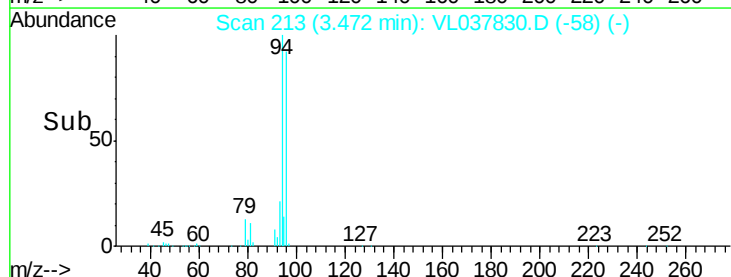
100000

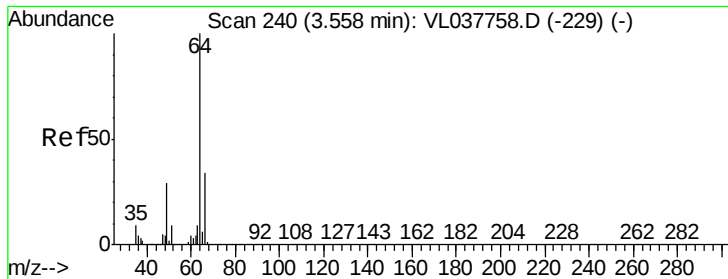
50000

0

3.40 3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 9.973 ppbv

RT: 3.55 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: VL1012ABS01

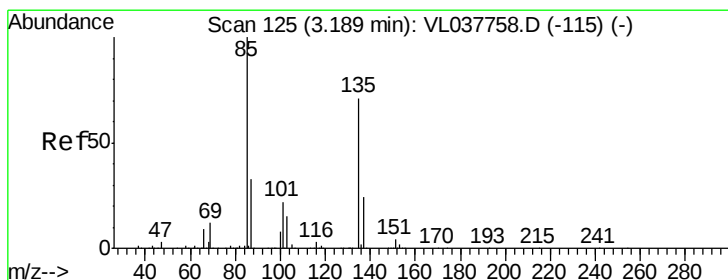
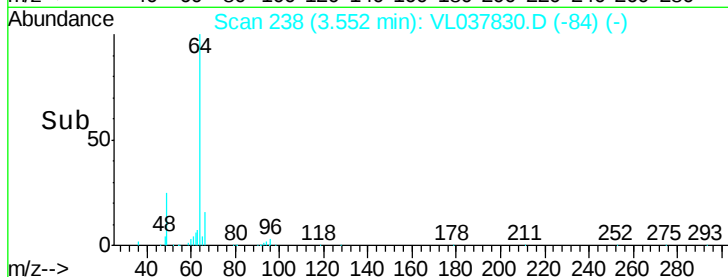
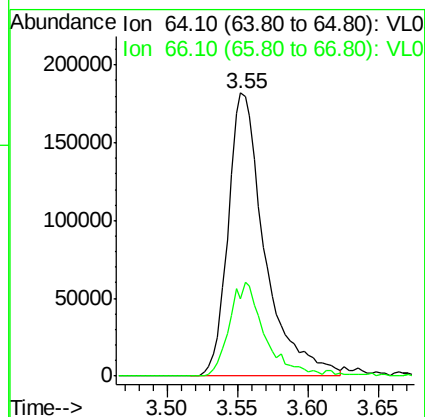
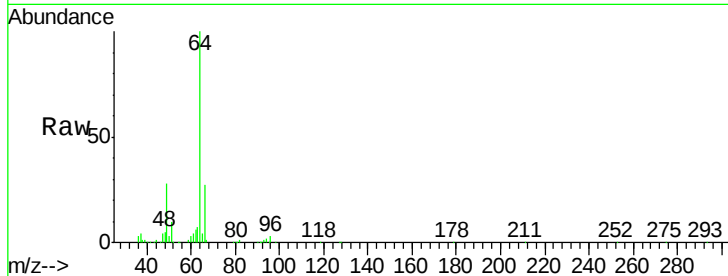
Acq: 12 Oct 2021 14:22

Tgt Ion: 64 Resp: 330472

Ion Ratio Lower Upper

64 100

66 27.5 27.5 41.3#



#8

Dichlorotetrafluoroethane

Concen: 9.506 ppbv

RT: 3.19 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL037830.D

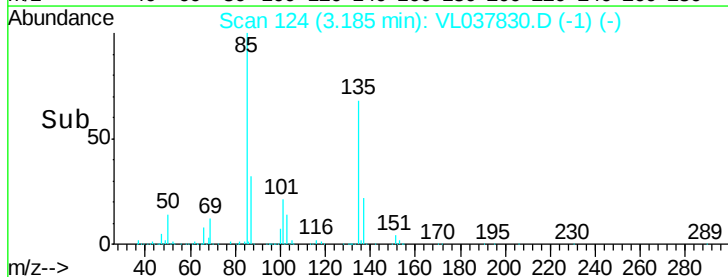
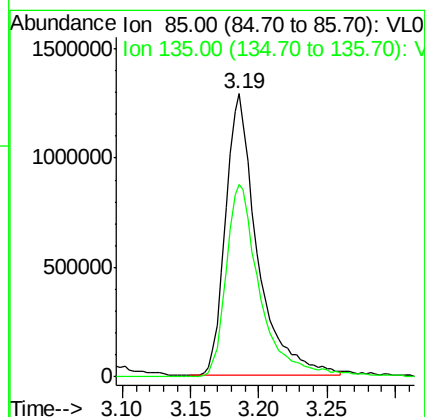
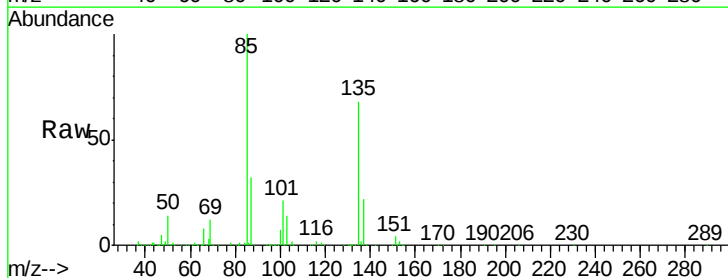
Acq: 12 Oct 2021 14:22

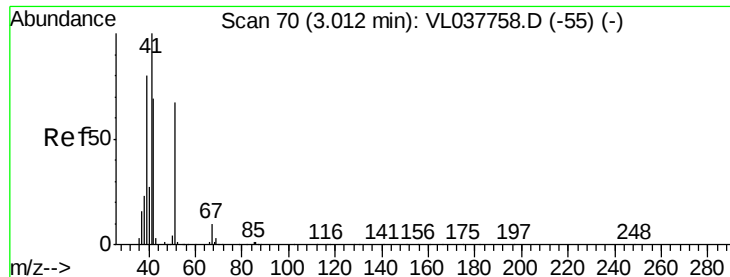
Tgt Ion: 85 Resp: 2096445

Ion Ratio Lower Upper

85 100

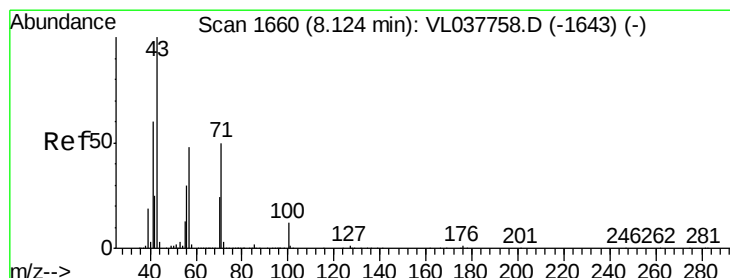
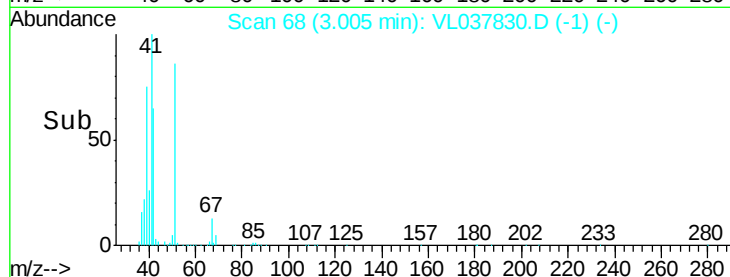
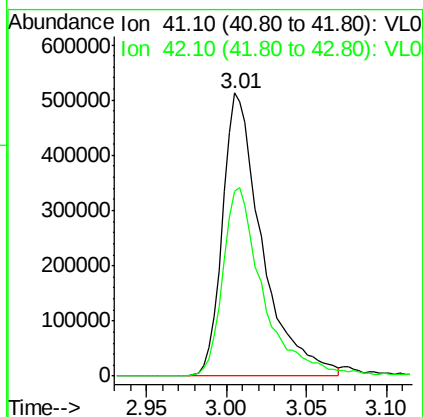
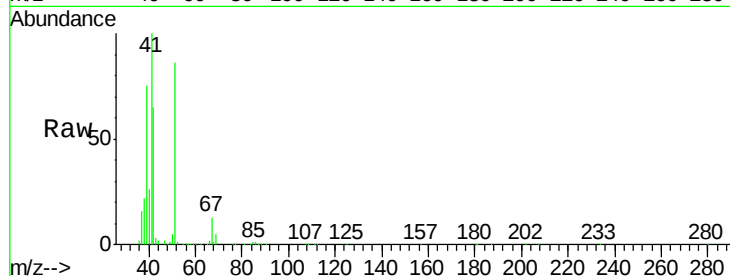
135 73.2 59.5 89.3





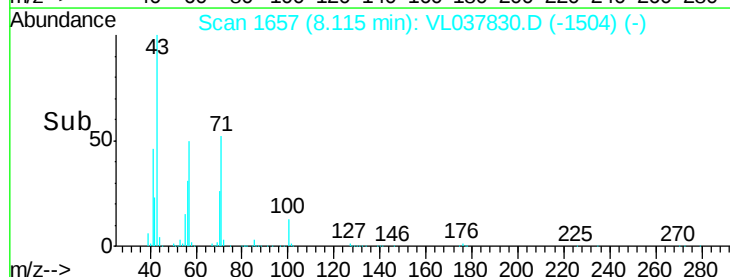
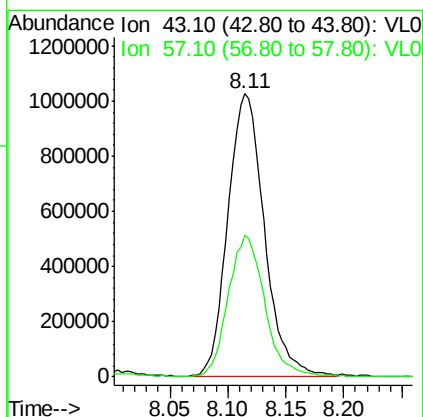
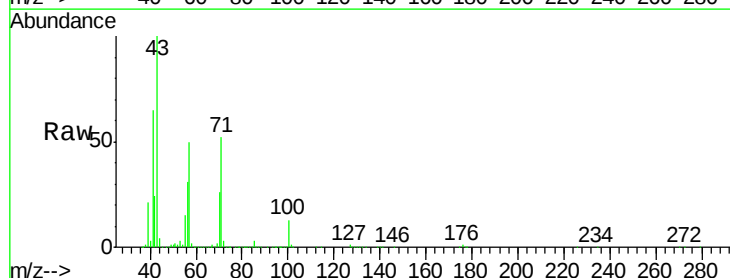
#9
 Propene
 Concen: 8.797 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

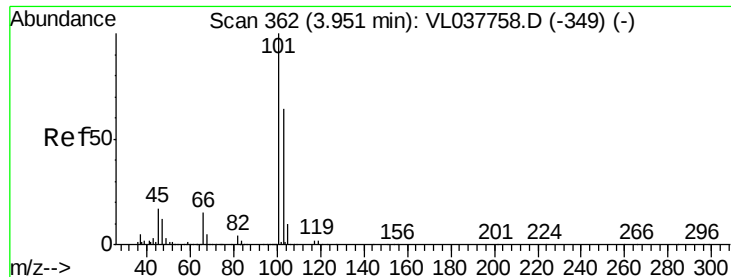
Tgt Ion: 41 Resp: 868849
 Ion Ratio Lower Upper
 41 100
 42 68.8 54.2 81.2



#10
 Heptane
 Concen: 9.918 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

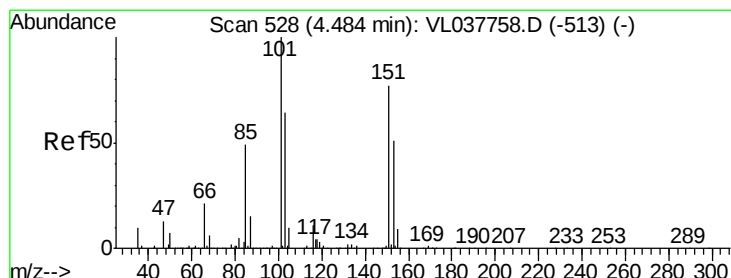
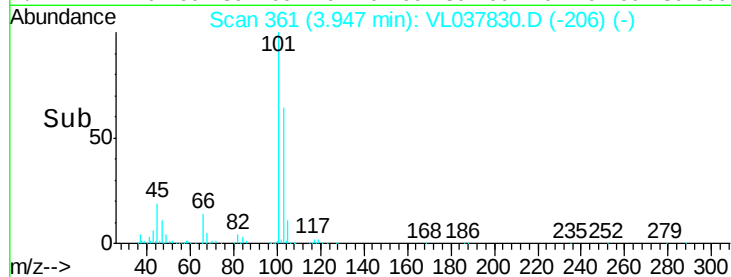
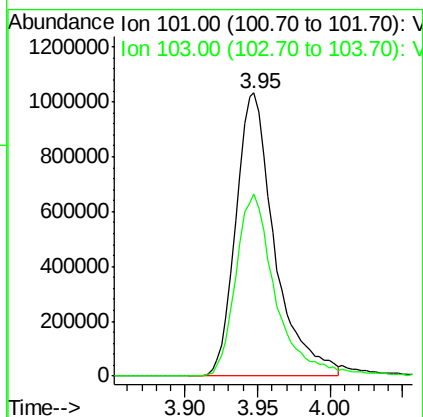
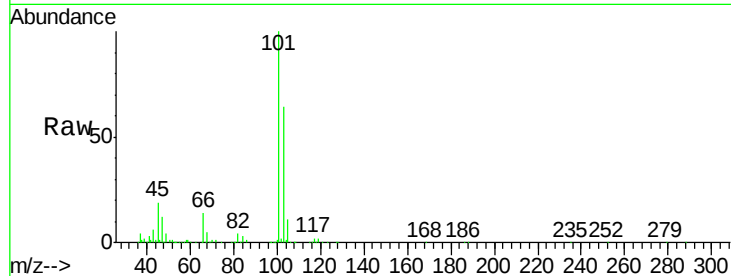
Tgt Ion: 43 Resp: 2224665
 Ion Ratio Lower Upper
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 57 50.4 40.0 60.0





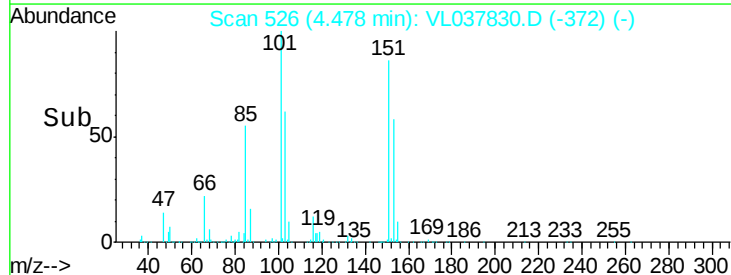
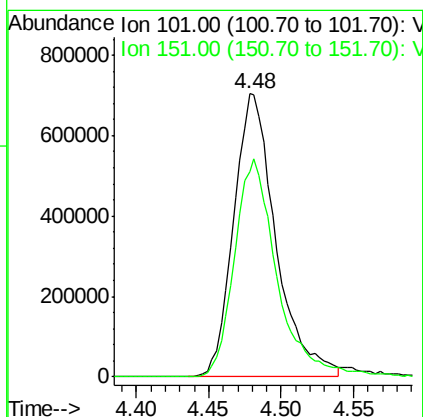
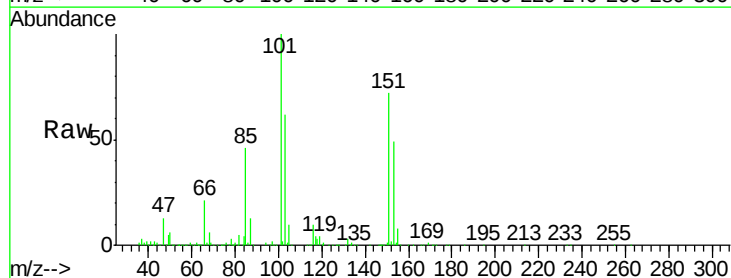
#11
 Trichlorofluoromethane
 Concen: 9.645 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

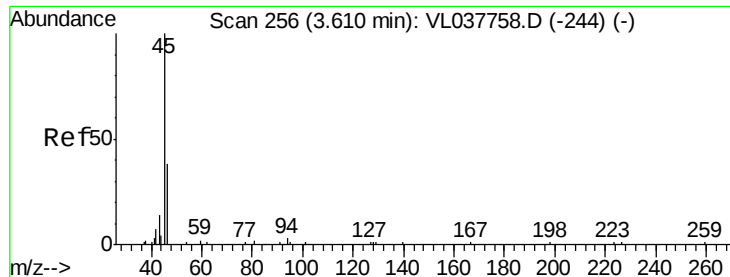
Tgt Ion:101 Resp: 1920136
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.456 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

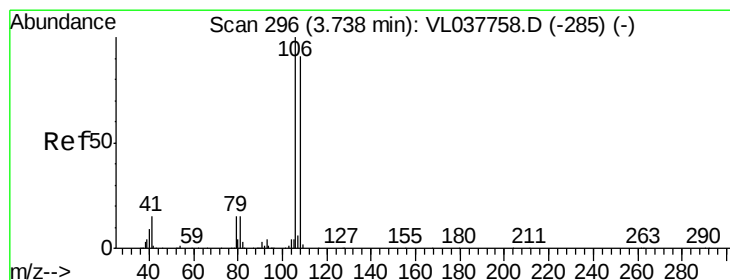
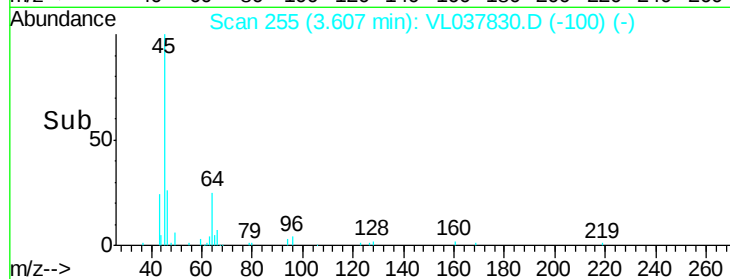
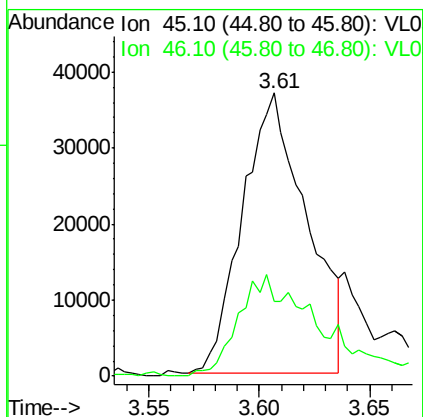
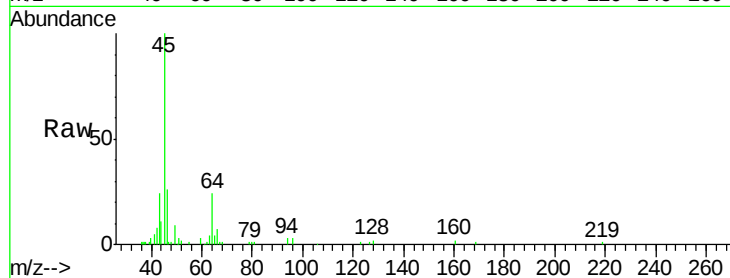
Tgt Ion:101 Resp: 1426341
 Ion Ratio Lower Upper
 101 100
 151 78.2 62.9 94.3





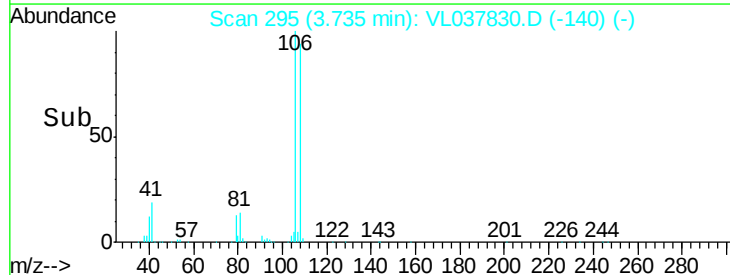
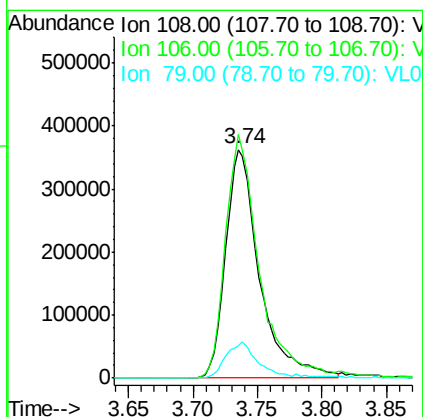
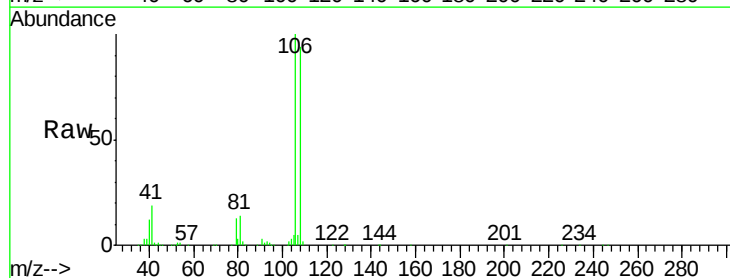
#13
Ethanol
Concen: 9.247 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VL1012ABS01
Acq: 12 Oct 2021 14:22

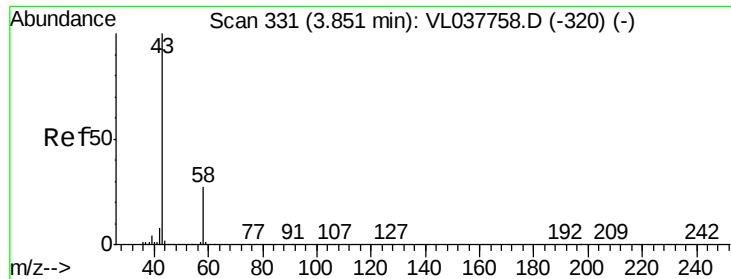
Tgt Ion: 45 Resp: 74690
Ion Ratio Lower Upper
45 100
46 45.8 20.2 81.0



#14
Bromoethene
Concen: 9.984 ppbv
RT: 3.74 min Scan# 295
Delta R.T. -0.00 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

Tgt Ion: 108 Resp: 662176
Ion Ratio Lower Upper
108 100
106 108.7 91.9 137.9
79 16.2 13.9 20.9





#15

Acetone

Concen: 8.611 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

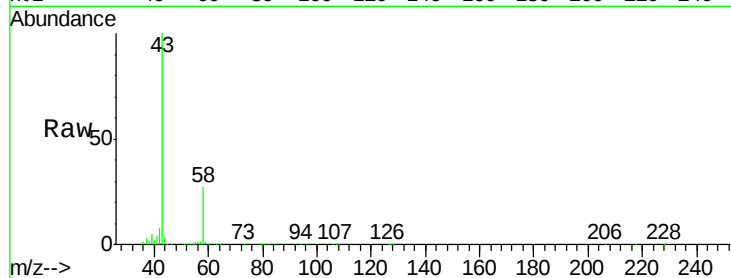
Acq: 12 Oct 2021 14:22 VL1012ABS01

Tgt Ion: 43 Resp: 1079923

Ion Ratio Lower Upper

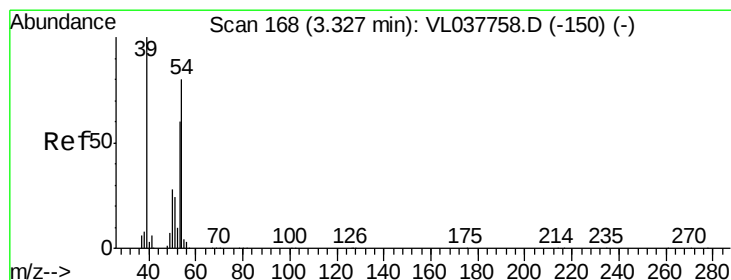
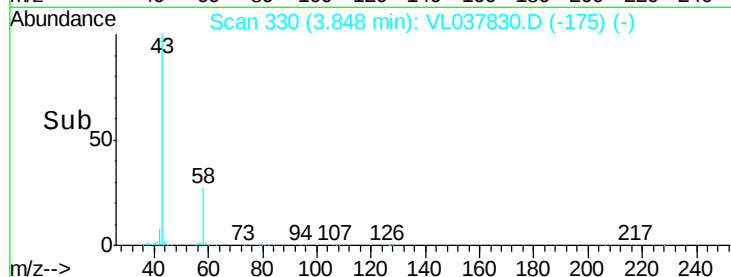
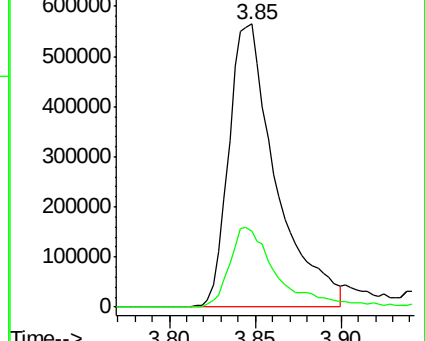
43 100

58 28.3 23.0 34.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.705 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL037830.D

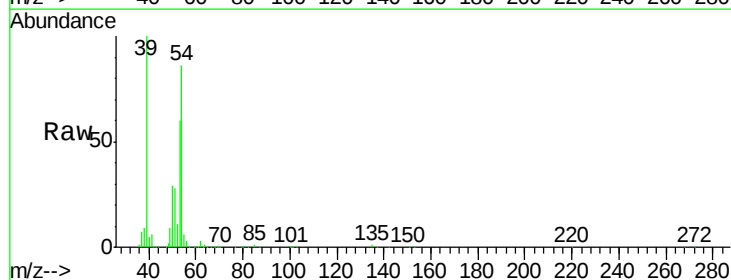
Acq: 12 Oct 2021 14:22

Tgt Ion: 39 Resp: 885487

Ion Ratio Lower Upper

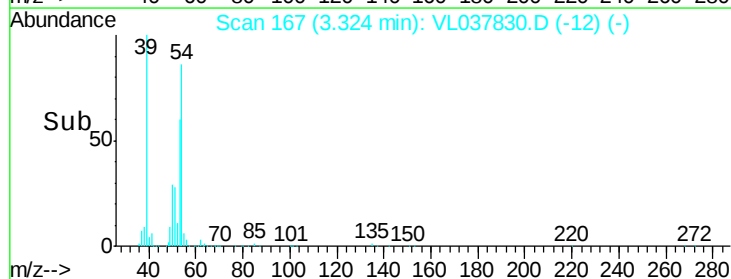
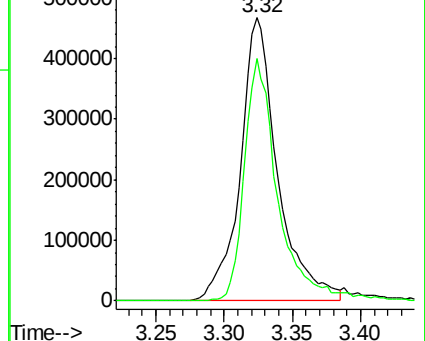
39 100

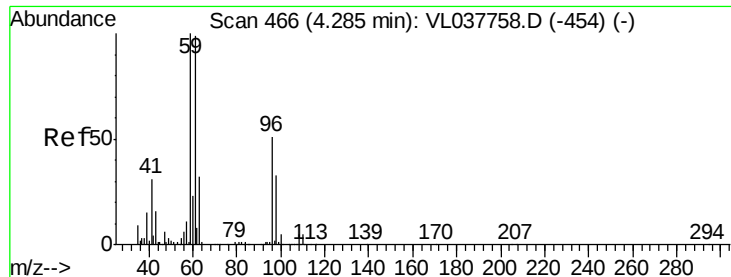
54 78.0 61.7 92.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 9.832 ppbv

RT: 4.28 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1012ABS01

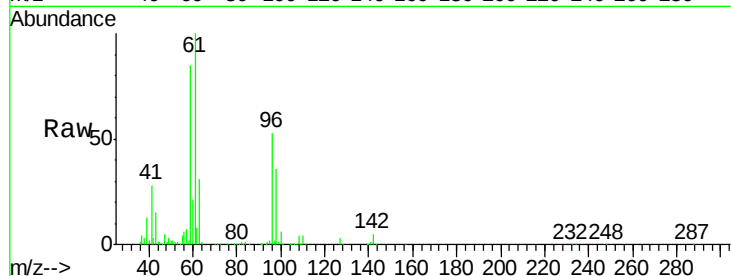
Acq: 12 Oct 2021 14:22

Tgt Ion: 59 Resp: 1269820

Ion Ratio Lower Upper

59 100

57 10.2 8.6 13.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.28

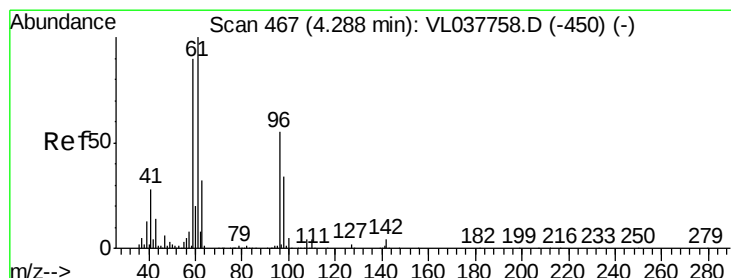
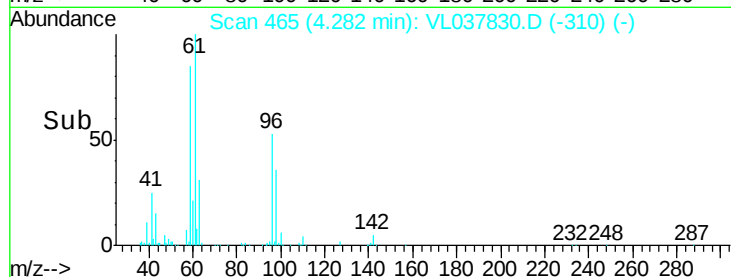
600000

400000

200000

0

Time--> 4.20 4.25 4.30 4.35



#18

1,1-Dichloroethene

Concen: 9.607 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL037830.D

Acq: 12 Oct 2021 14:22

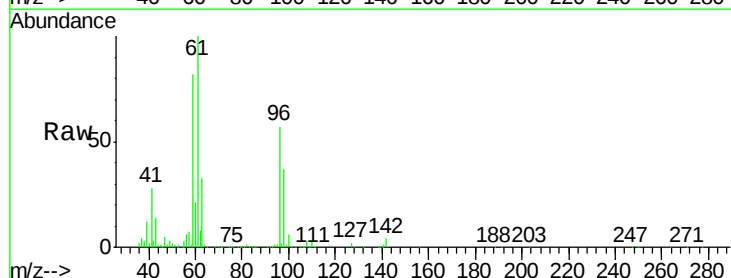
Tgt Ion: 96 Resp: 658582

Ion Ratio Lower Upper

96 100

61 176.6 146.2 219.4

98 65.6 50.0 75.0



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

4.29

800000

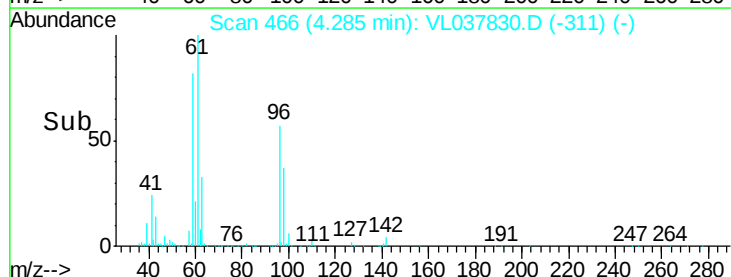
600000

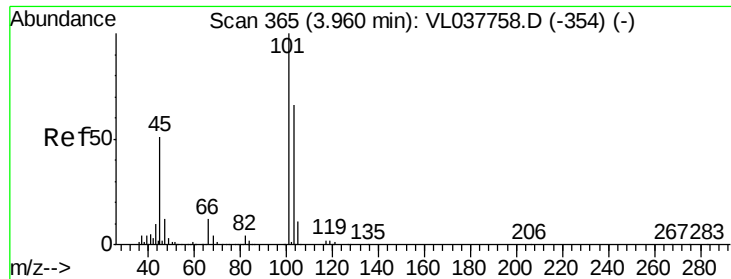
400000

200000

0

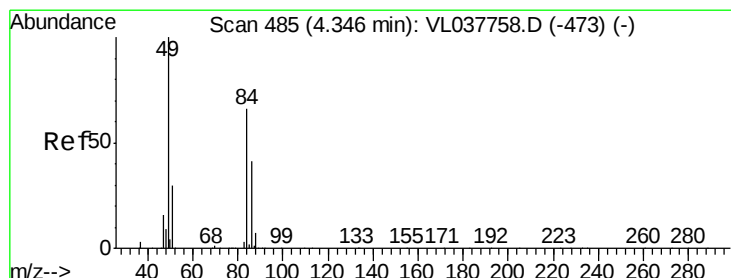
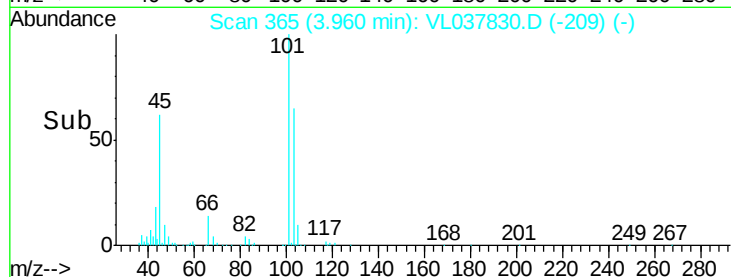
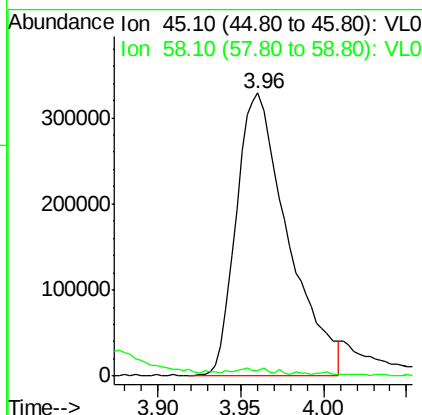
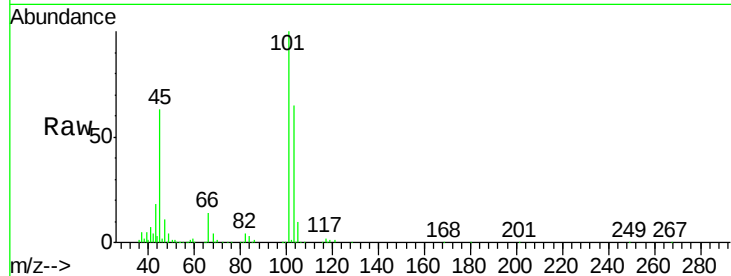
Time--> 4.20 4.25 4.30 4.35





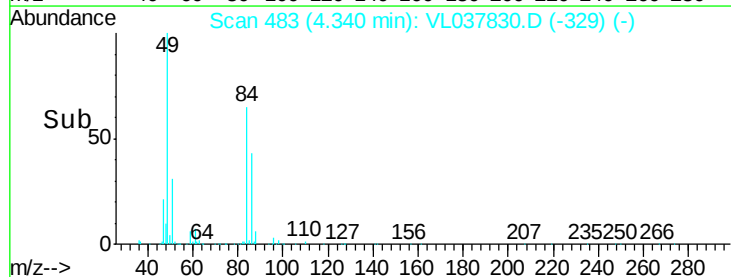
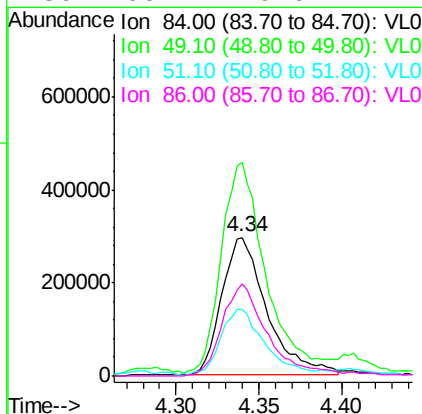
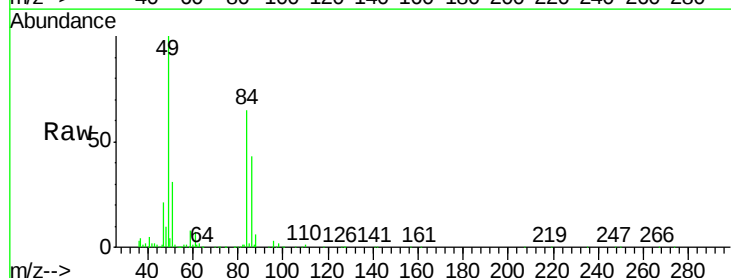
#19
Isopropyl Alcohol
Concen: 9.091 ppbv
RT: 3.96
Delta R.T. MSVOA_L
Lab File: ClientSampleId : VL1012ABS01
Acq: 12 Oct 2021 14:22

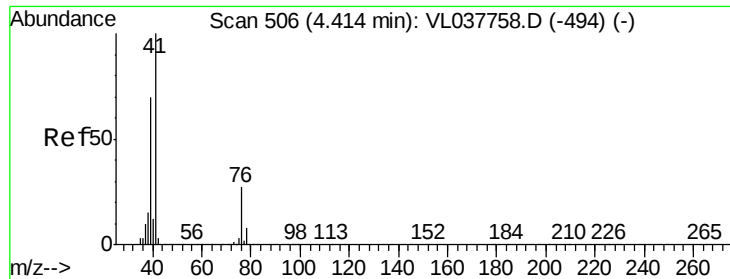
Tgt Ion: 45 Resp: 709224
Ion Ratio Lower Upper
45 100
58 3.2 1.1 1.7#



#20
Methylene Chloride
Concen: 8.823 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

Tgt Ion: 84 Resp: 559074
Ion Ratio Lower Upper
84 100
49 152.4 120.7 181.1
51 47.2 36.2 54.4
86 66.1 49.6 74.4

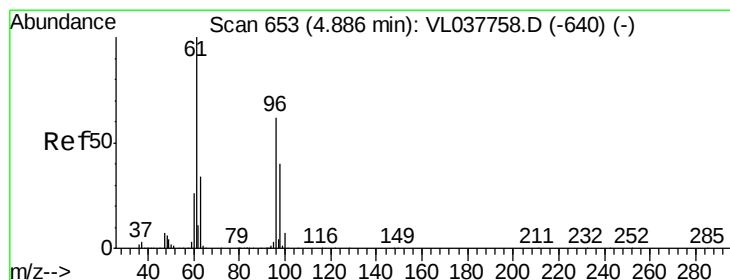
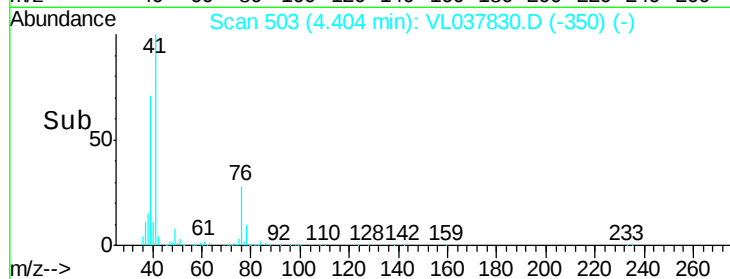
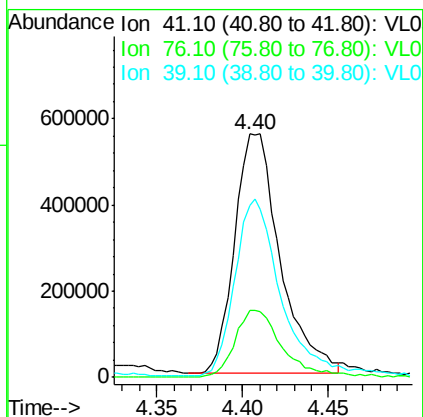
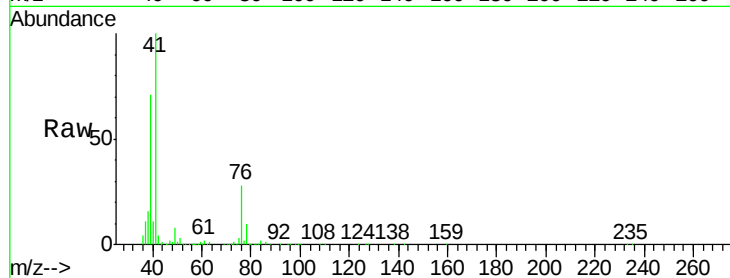




#21
 Allyl Chloride
 Concen: 9.238 ppbv
 RT: 4.40
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

Tgt Ion: 41 Resp: 1026262

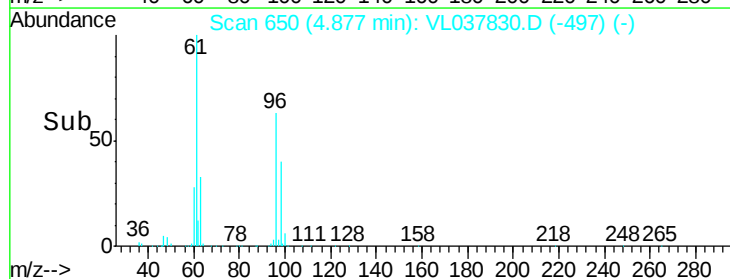
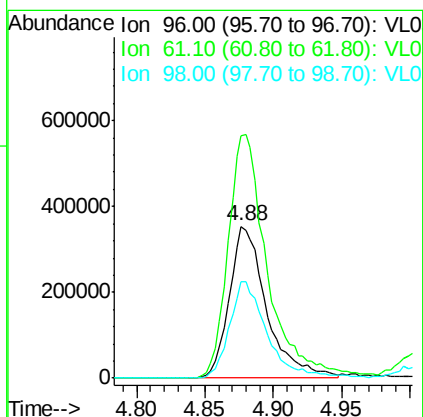
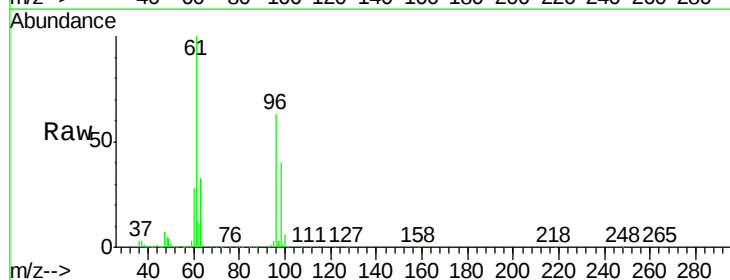
Ion	Ratio	Lower	Upper
41	100		
76	29.8	22.4	33.6
39	75.7	58.0	87.0

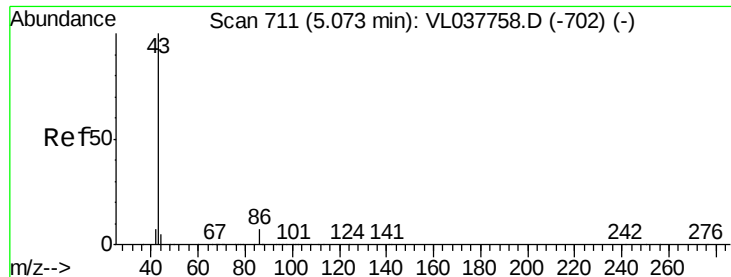


#22
 trans-1,2-Dichloroethene
 Concen: 9.753 ppbv
 RT: 4.88 min Scan# 650
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

Tgt Ion: 96 Resp: 672129

Ion	Ratio	Lower	Upper
96	100		
61	159.6	129.0	193.6
98	63.4	51.7	77.5





#23

Vinyl Acetate

Concen: 11.247 ppbv

RT: 5.07 Instrument: MSVOA_1

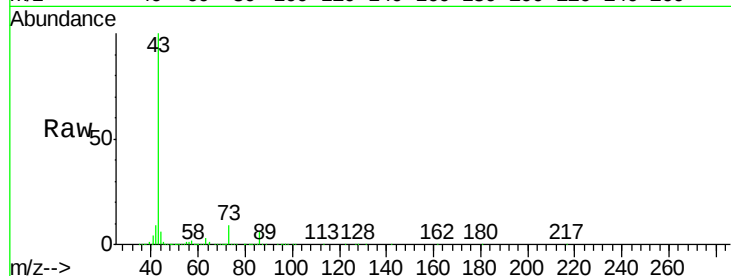
Delta R.T. ClientSampleId:

Lab File: VL1012ABS01

Acq: 12 Oct 2021 14:22

Tgt Ion: 43 Resp: 2113686

Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.0	7.4
42	8.6	7.4	11.0
44	5.6	3.8	5.6

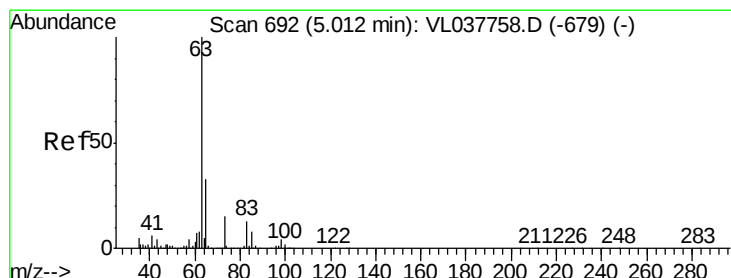
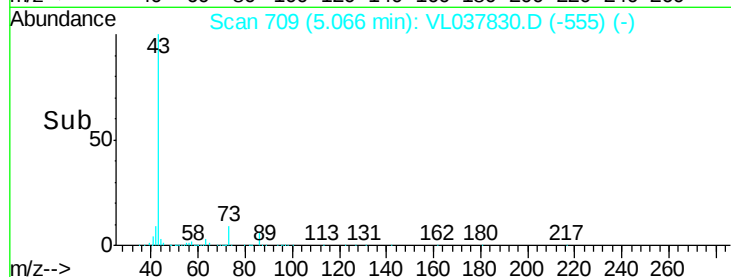
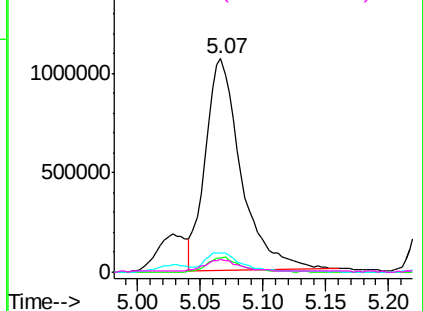


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.290 ppbv

RT: 5.01 min Scan# 690

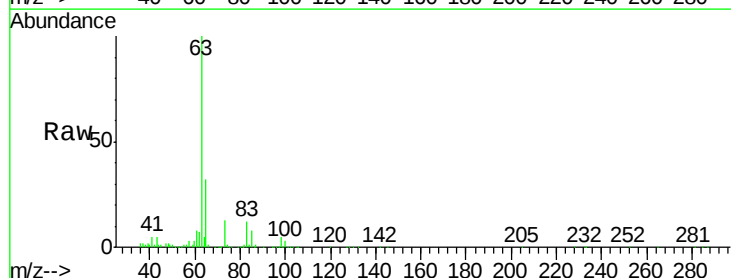
Delta R.T. -0.01 min

Lab File: VL037830.D

Acq: 12 Oct 2021 14:22

Tgt Ion: 63 Resp: 1407655

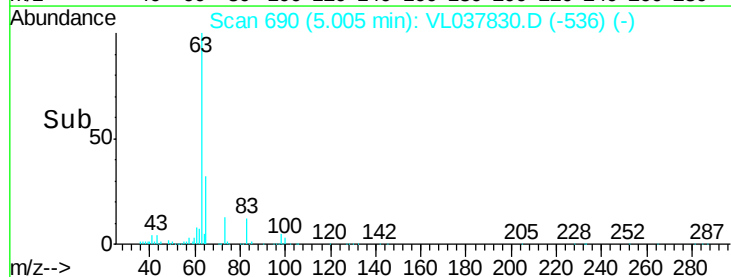
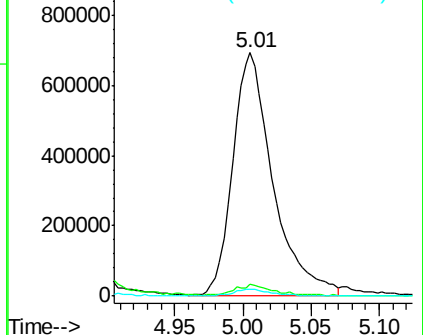
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.9
100	2.5	1.1	3.1

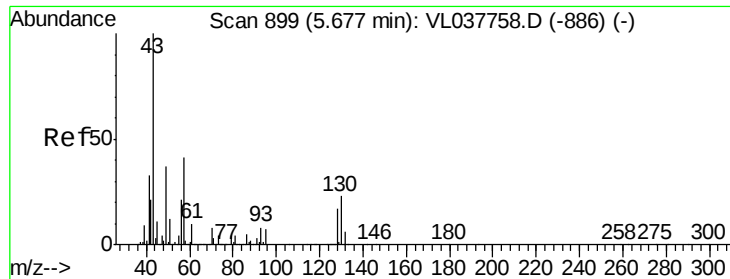


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.941 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1012ABS01

Acq: 12 Oct 2021 14:22

Tgt Ion: 43 Resp: 3498142

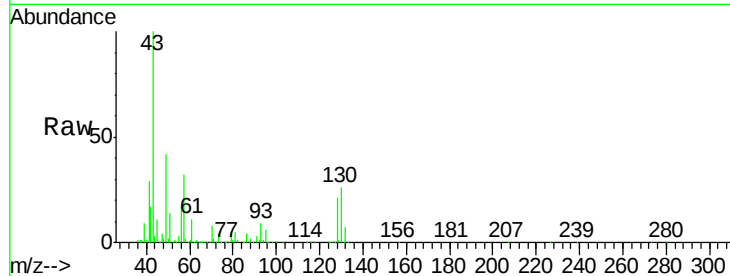
Ion Ratio Lower Upper

43 100

45 10.0 8.1 12.1

61 9.9 7.5 11.3

70 7.0 5.9 8.9

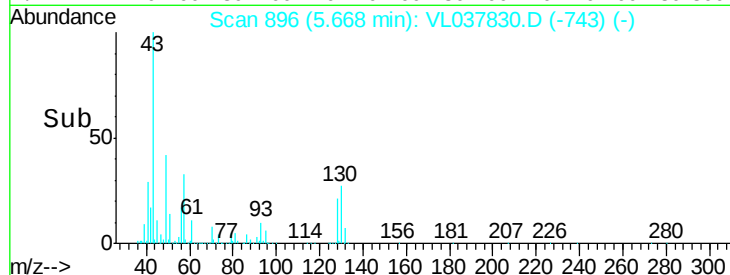
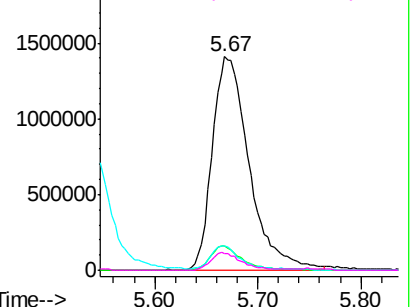


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.425 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL037830.D

Acq: 12 Oct 2021 14:22

Tgt Ion: 57 Resp: 1633132

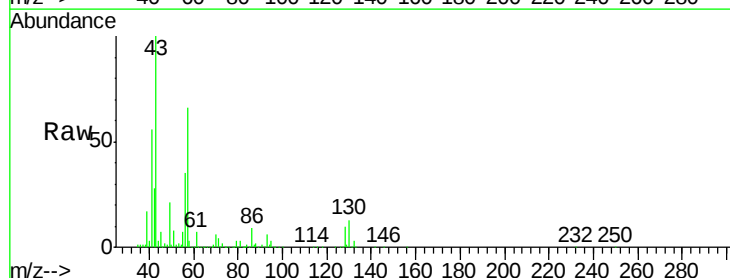
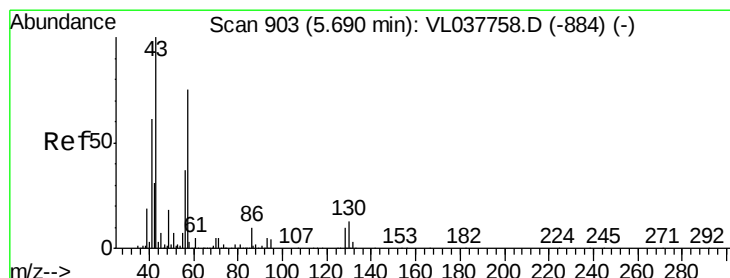
Ion Ratio Lower Upper

57 100

41 88.9 69.6 104.4

43 217.3 171.4 257.0

56 53.8 42.0 63.0

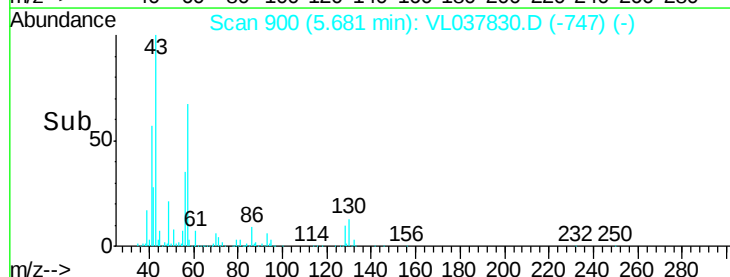
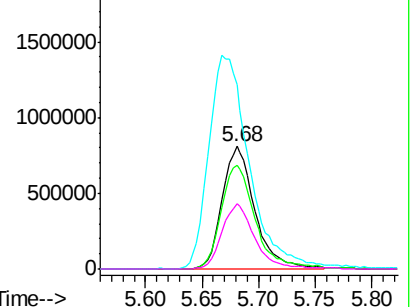


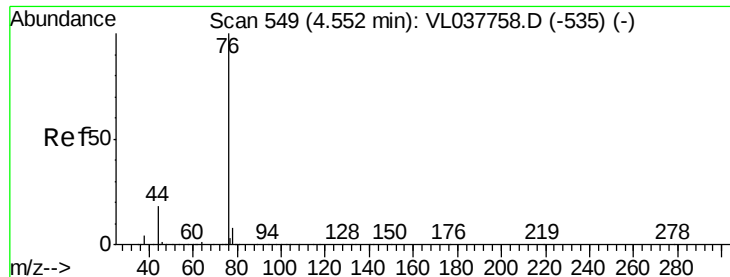
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.440 ppbv

RT: 4.55 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL1012ABS01

Acq: 12 Oct 2021 14:22

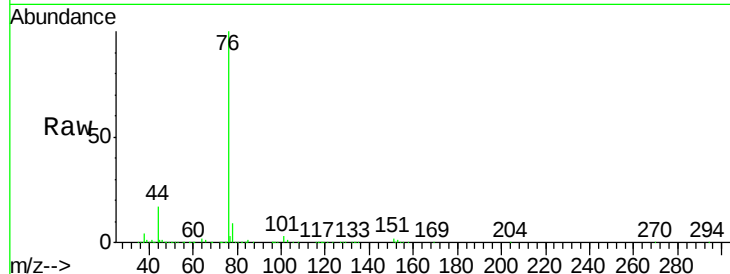
Tgt Ion: 76 Resp: 1603319

Ion Ratio Lower Upper

76 100

44 17.6 14.3 21.5

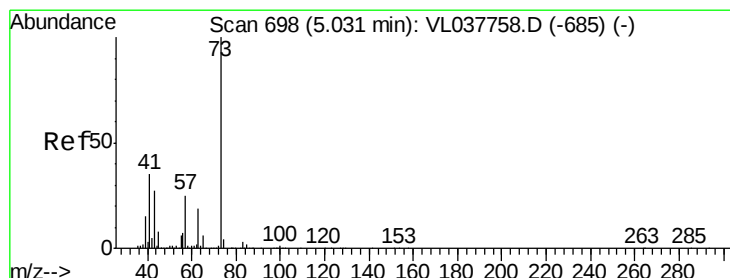
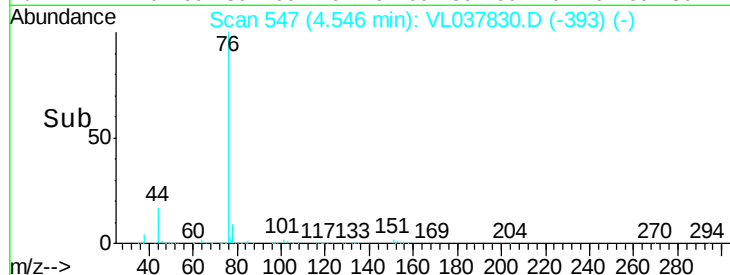
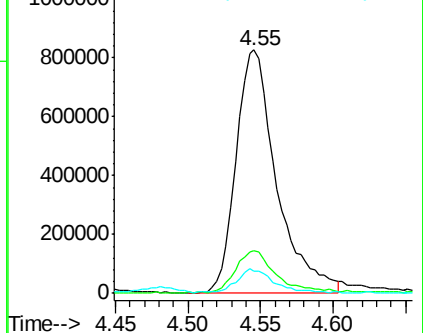
78 9.5 7.8 11.6



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: 10.955 ppbv

RT: 5.03 min Scan# 697

Delta R.T. -0.00 min

Lab File: VL037830.D

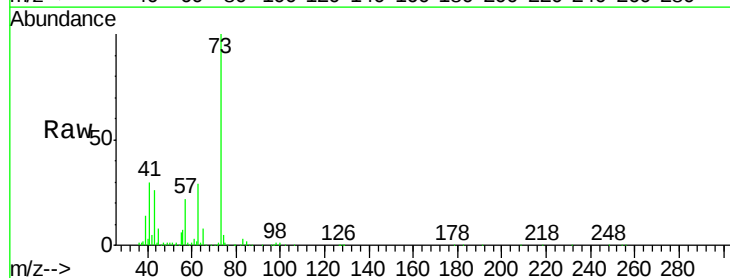
Acq: 12 Oct 2021 14:22

Tgt Ion: 73 Resp: 1580482

Ion Ratio Lower Upper

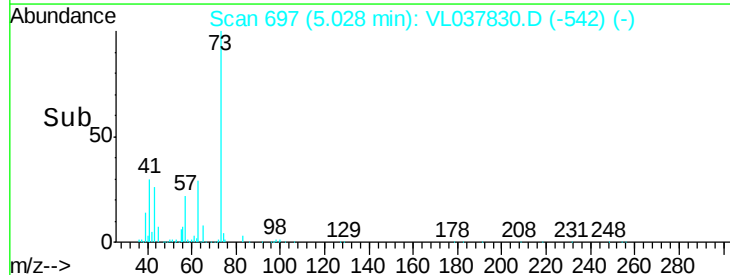
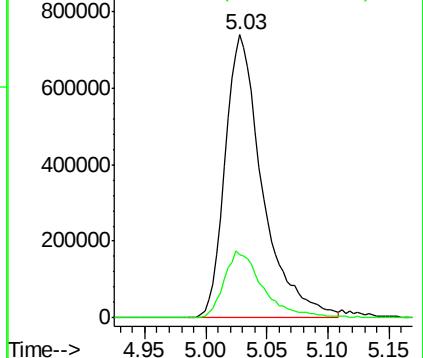
73 100

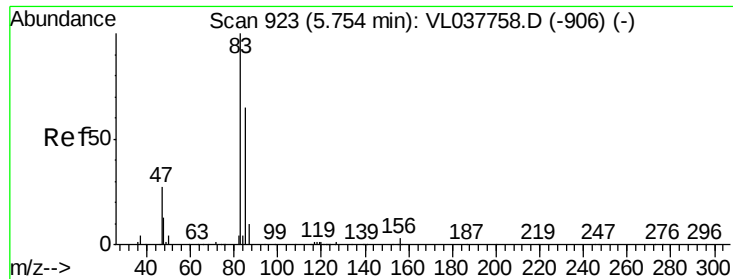
57 25.0 20.4 30.6



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.461 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

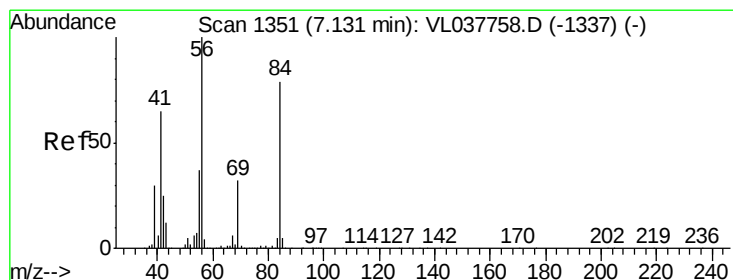
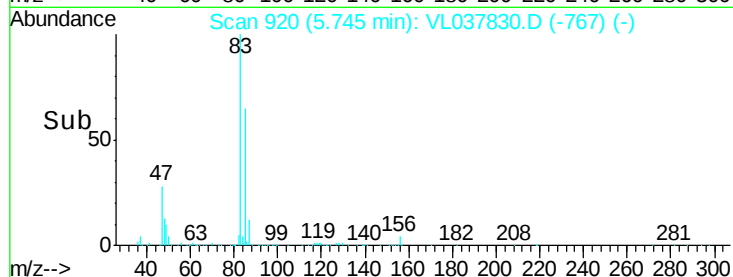
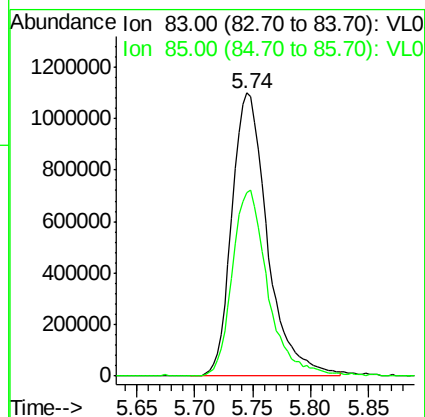
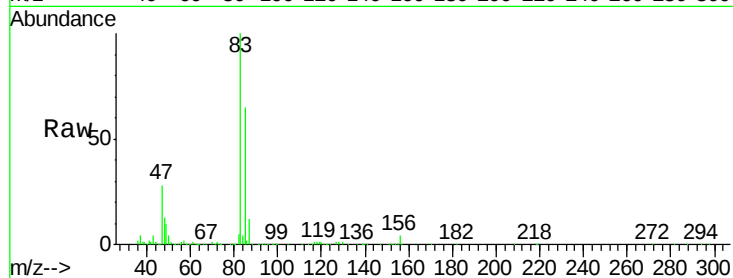
Acq: 12 Oct 2021 14:22 VL1012ABS01

Tgt Ion: 83 Resp: 2343438

Ion Ratio Lower Upper

83 100

85 64.6 51.8 77.8



#30

Cyclohexane

Concen: 9.459 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.01 min

Lab File: VL037830.D

Acq: 12 Oct 2021 14:22

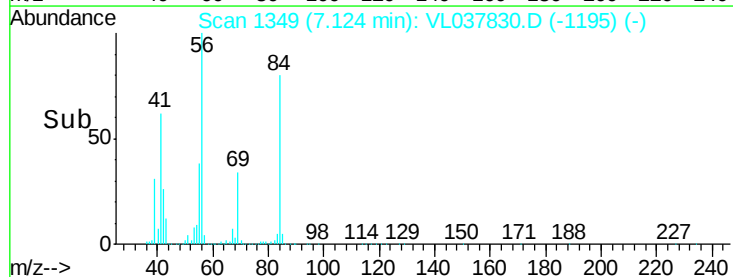
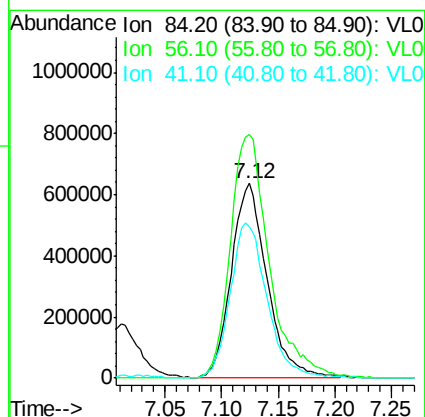
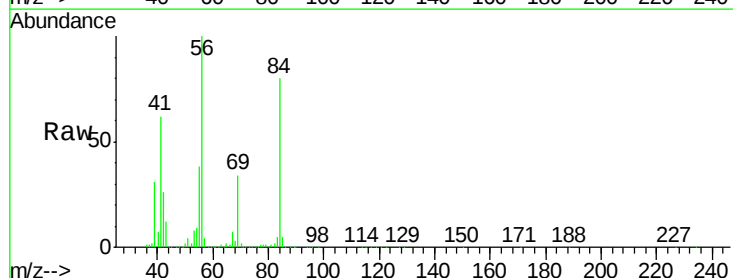
Tgt Ion: 84 Resp: 1389929

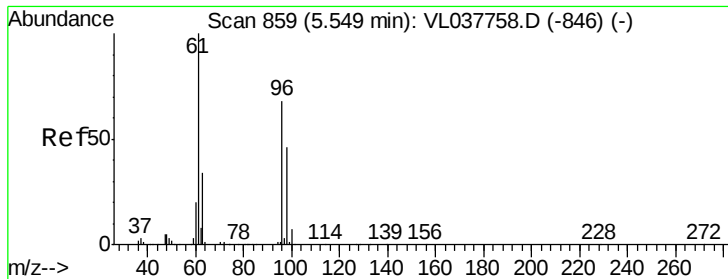
Ion Ratio Lower Upper

84 100

56 138.5 113.0 169.4

41 83.4 69.1 103.7





#31

cis-1,2-Dichloroethene

Concen: 9.880 ppbv

RT: 5.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 14:22 VL1012ABS01

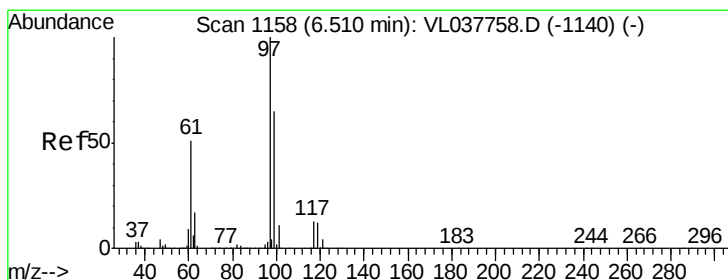
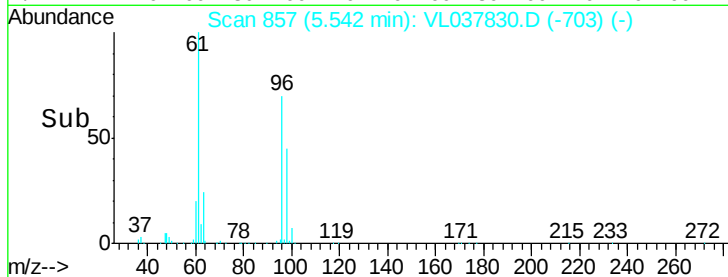
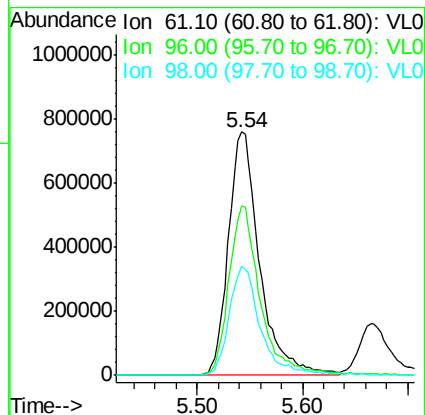
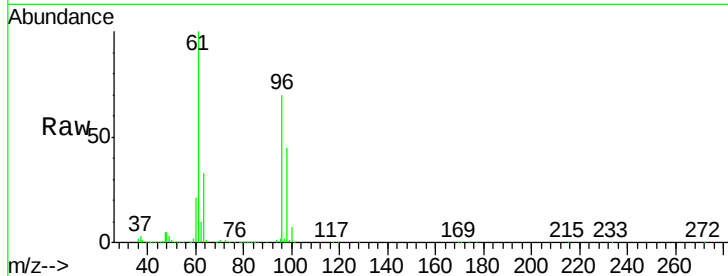
Tgt Ion: 61 Resp: 1554183

Ion Ratio Lower Upper

61 100

96 69.7 54.2 81.2

98 45.0 36.6 54.8



#32

1,1,1-Trichloroethane

Concen: 9.571 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL037830.D

Acq: 12 Oct 2021 14:22

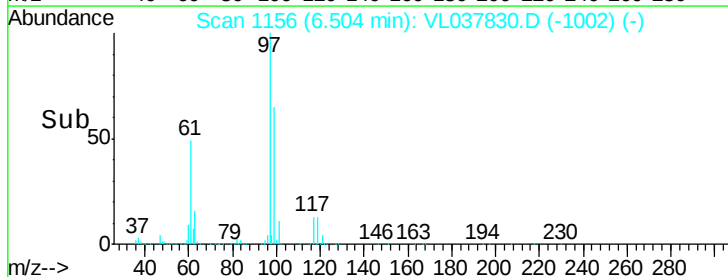
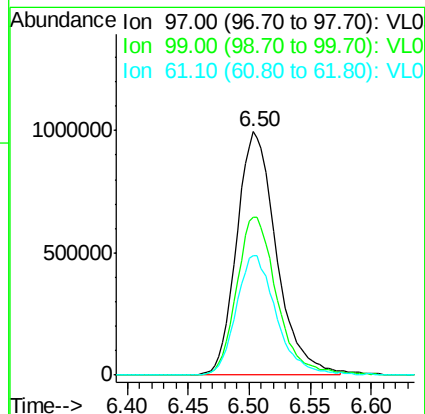
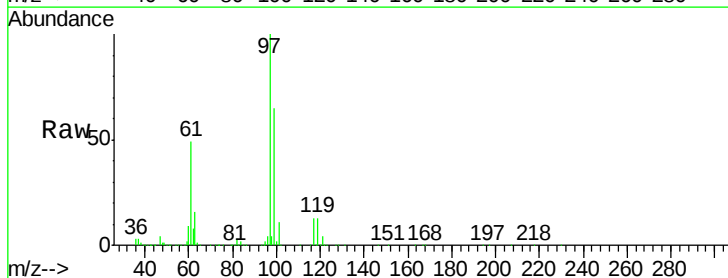
Tgt Ion: 97 Resp: 2247471

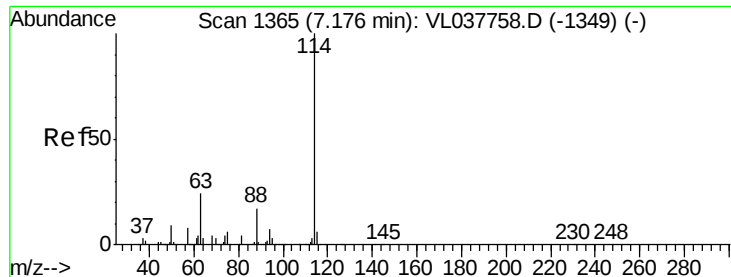
Ion Ratio Lower Upper

97 100

99 65.8 52.6 78.8

61 49.9 40.2 60.4

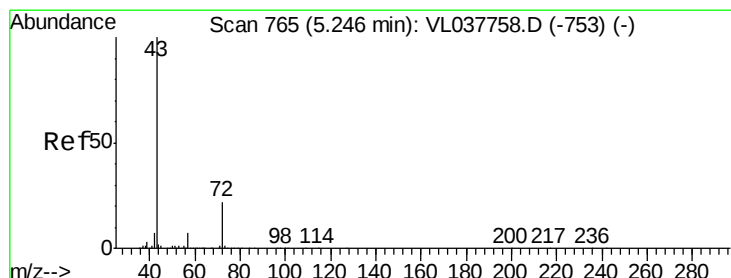
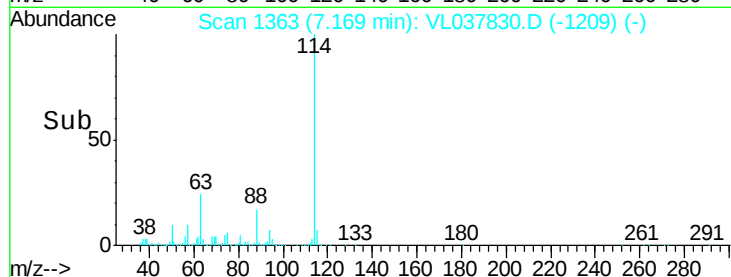
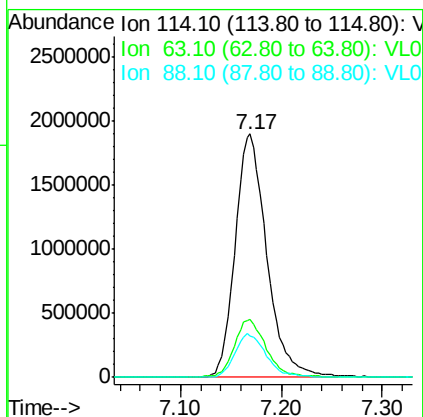
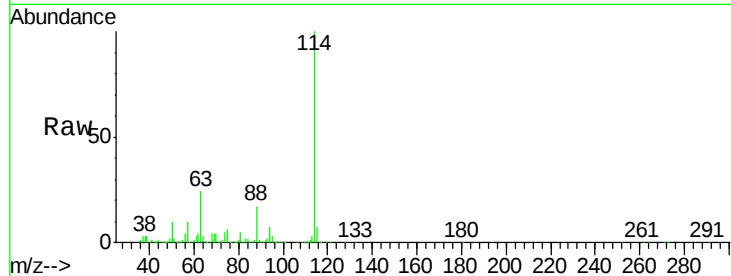




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

Tgt Ion: 114 Resp: 4131840

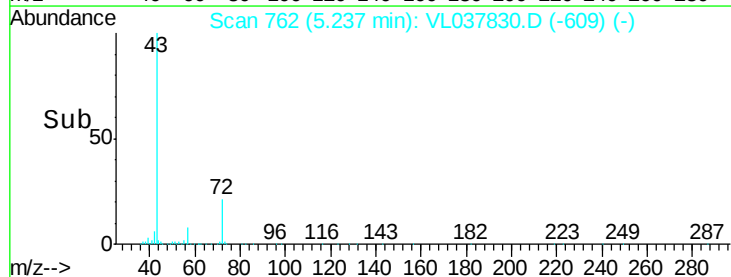
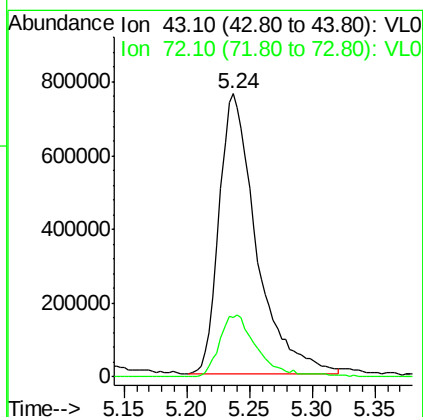
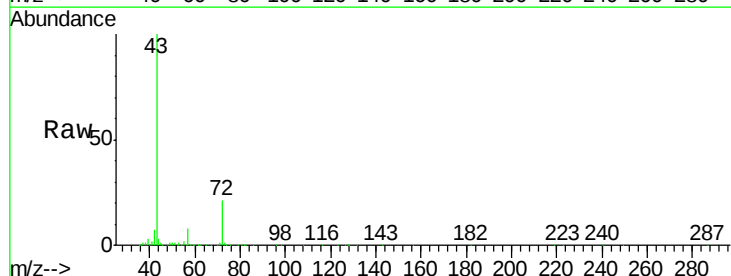
Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.4	29.2
88	17.9	14.4	21.6

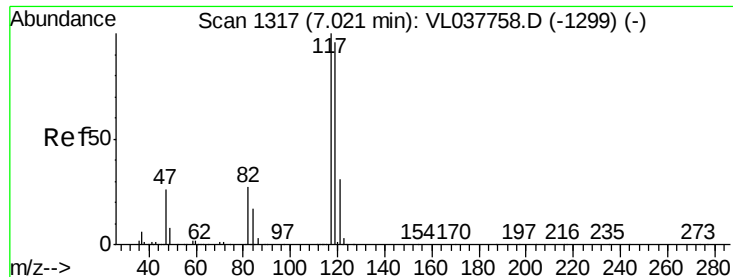


#34
 2-Butanone
 Concen: 9.457 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

Tgt Ion: 43 Resp: 1577465

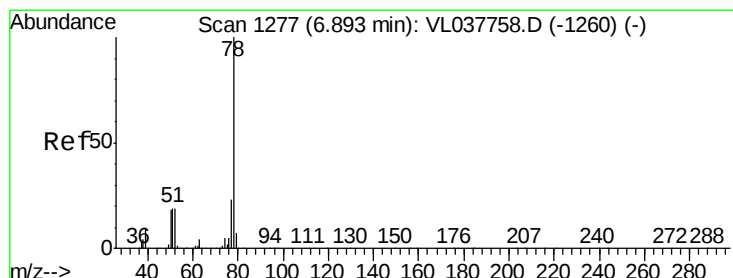
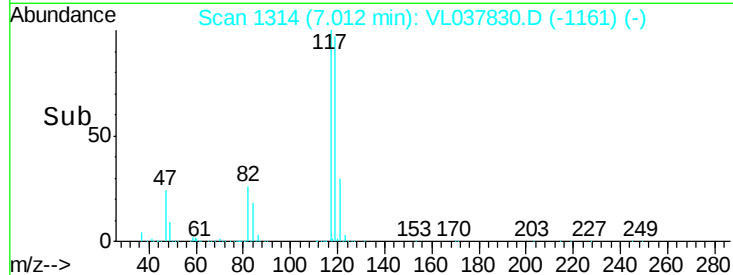
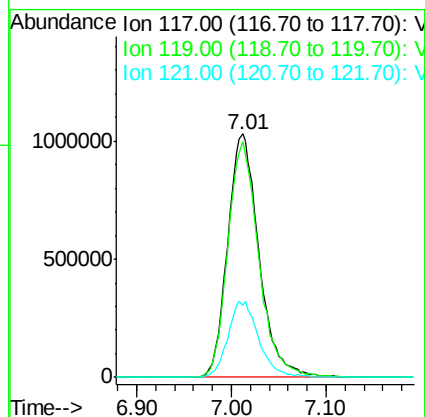
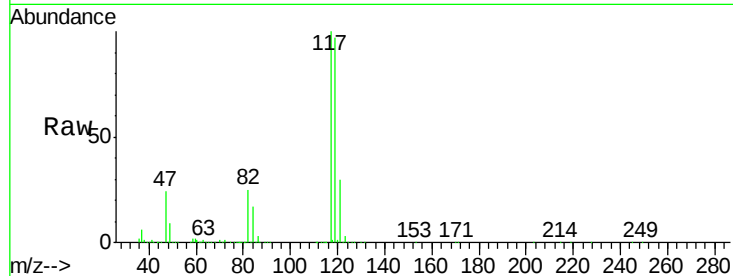
Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.2	27.2





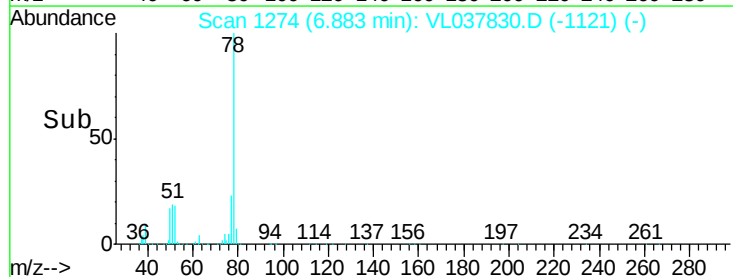
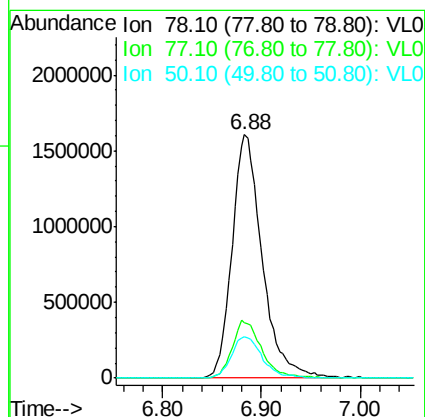
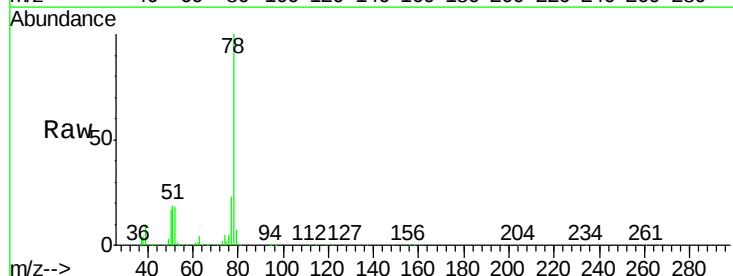
#35
Carbon Tetrachloride
Concen: 10.097 ppbv
RT: 7.01
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
VL1012ABS01
Acq: 12 Oct 2021 14:22

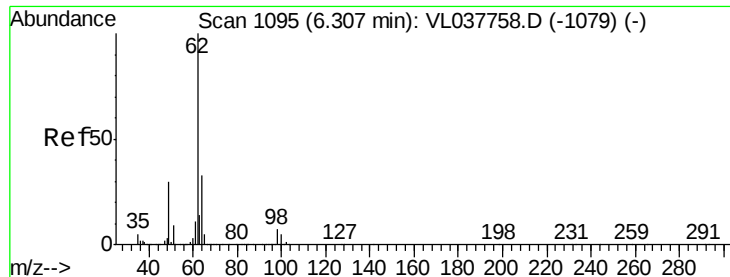
Tgt Ion: 117 Resp: 2369400
Ion Ratio Lower Upper
117 100
119 97.1 76.5 114.7
121 29.8 24.9 37.3



#36
Benzene
Concen: 9.688 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

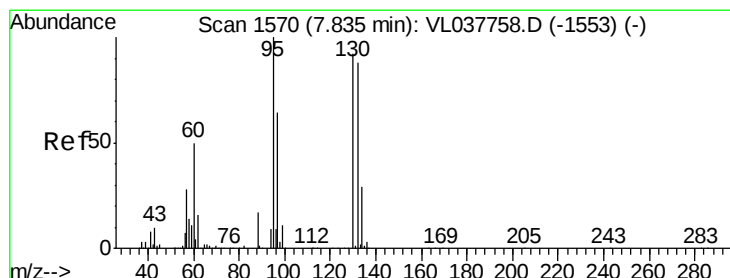
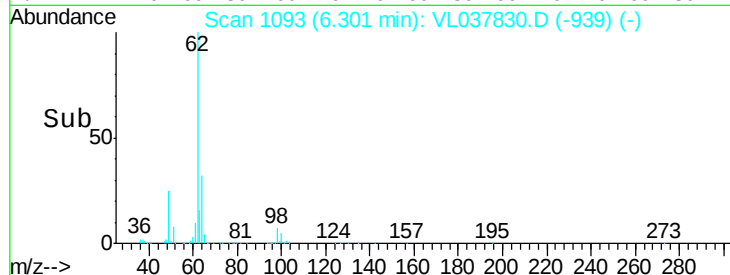
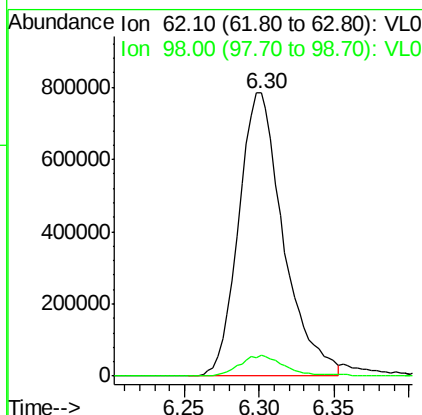
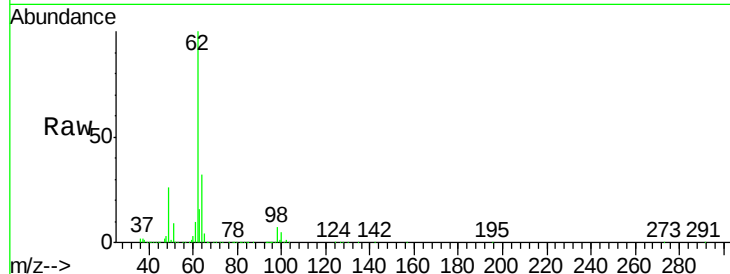
Tgt Ion: 78 Resp: 3418861
Ion Ratio Lower Upper
78 100
77 22.9 18.8 28.2
50 17.2 14.7 22.1





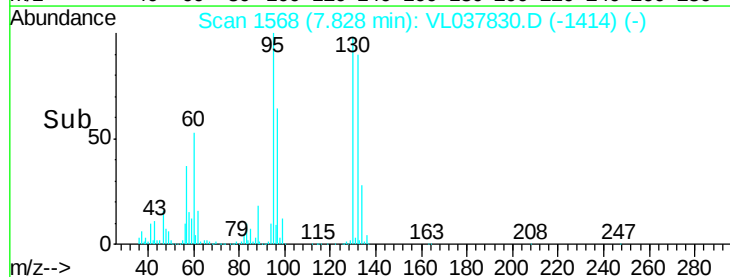
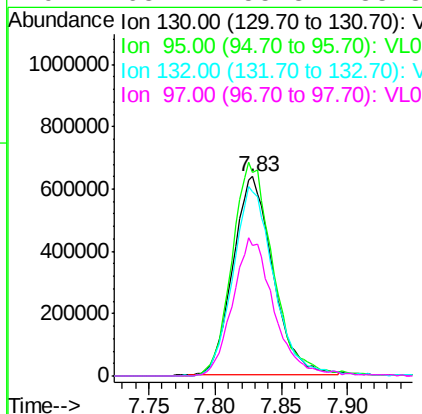
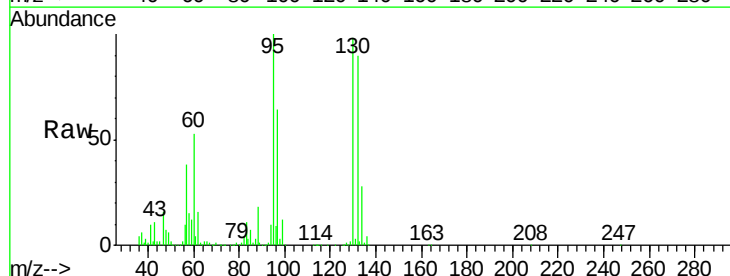
#37
 1,2-Dichloroethane
 Concen: 9.812 ppbv
 RT: 6.30
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

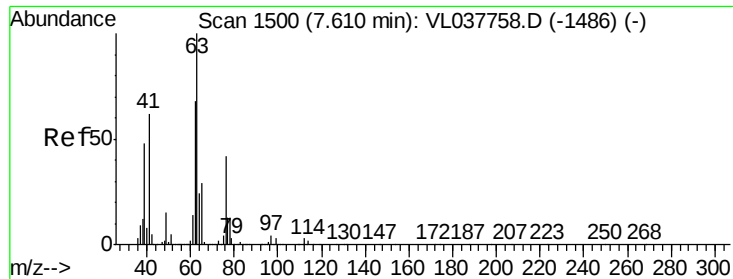
Tgt Ion: 62 Resp: 1630558
 Ion Ratio Lower Upper
 62 100
 98 7.8 6.1 9.1



#38
 Trichloroethene
 Concen: 9.586 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

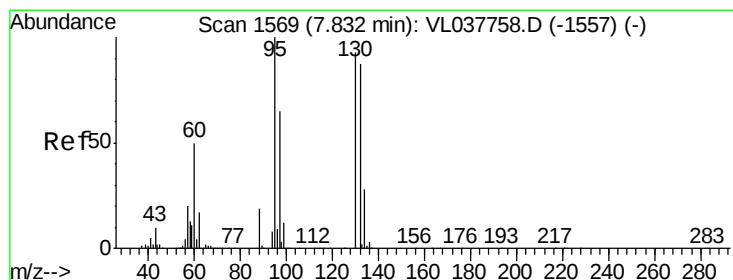
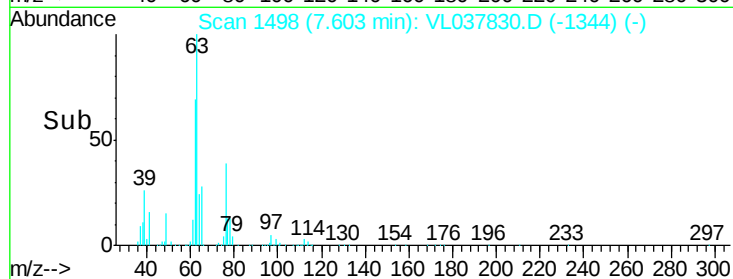
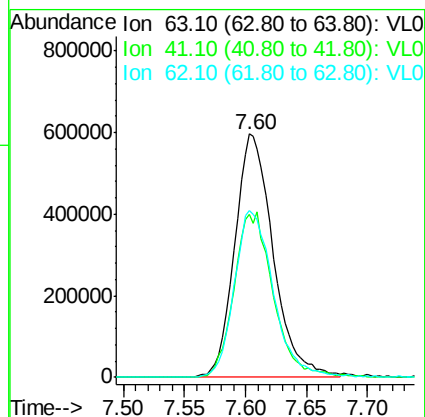
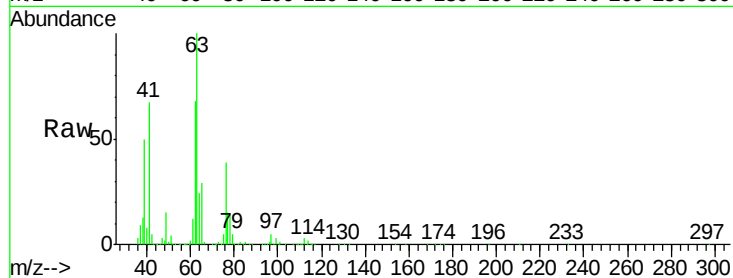
Tgt Ion: 130 Resp: 1336543
 Ion Ratio Lower Upper
 130 100
 95 102.8 87.4 131.0
 132 92.9 76.8 115.2
 97 65.7 55.8 83.8





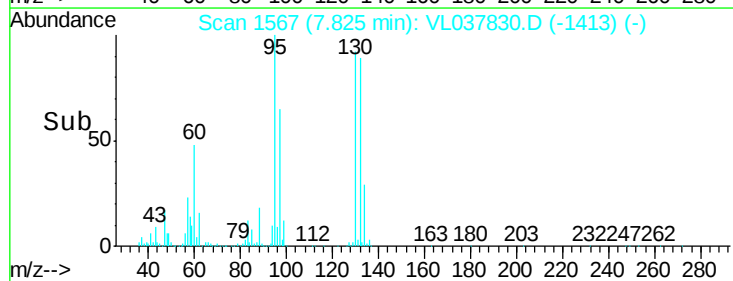
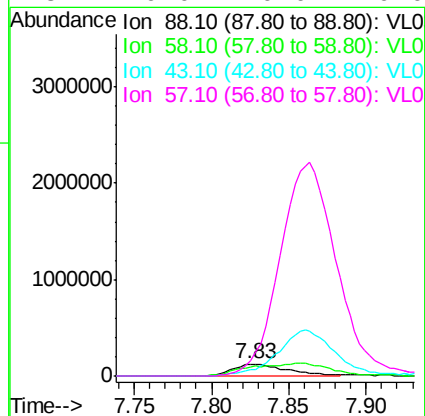
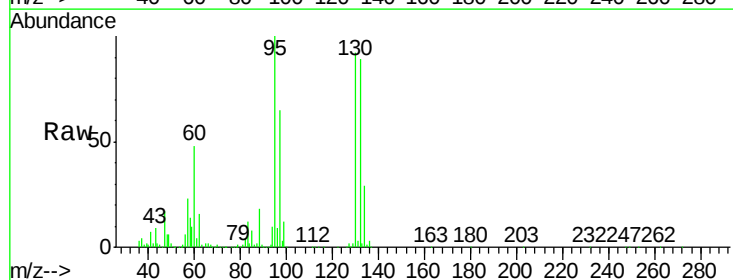
#39
 1,2-Dichloropropane
 Concen: 9.790 ppbv
 RT: 7.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VL1012ABS01
 Acq: 12 Oct 2021 14:22

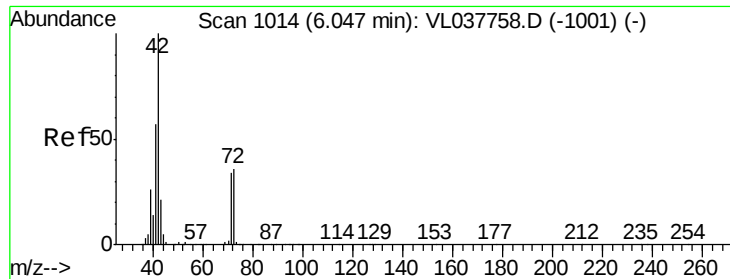
Tgt Ion:	63	Resp:	1299574
Ion	Ratio	Lower	Upper
63	100		
41	66.7	49.8	74.6
62	68.4	54.6	82.0



#40
 1,4-Dioxane
 Concen: 8.947 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

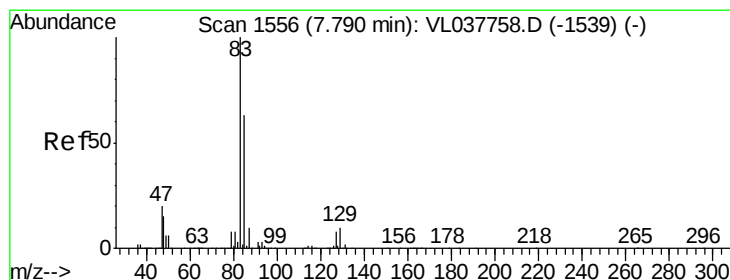
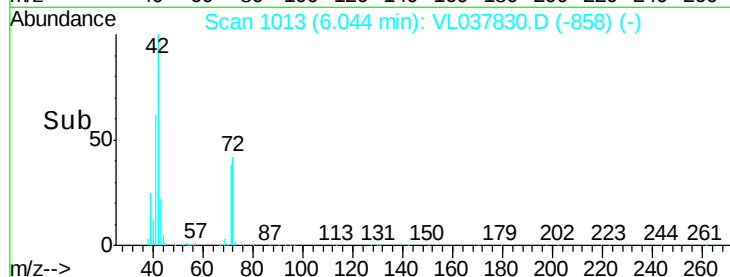
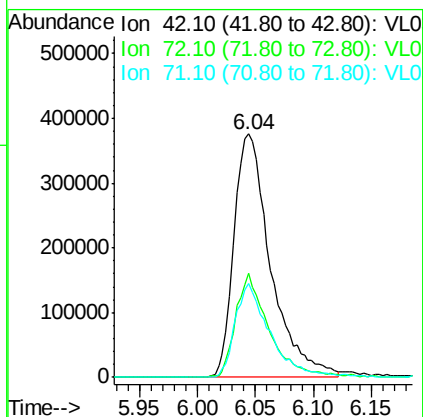
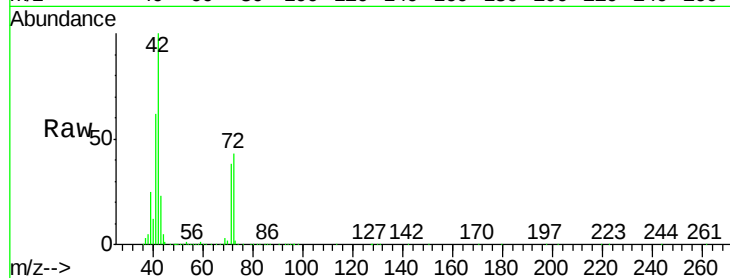
Tgt Ion:	88	Resp:	297188
Ion	Ratio	Lower	Upper
88	100		
58	0.0	0.0	0.0
43	0.0	0.0	0.0
57	0.0	0.0	0.0





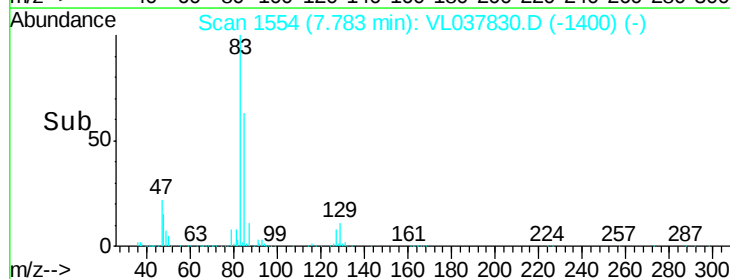
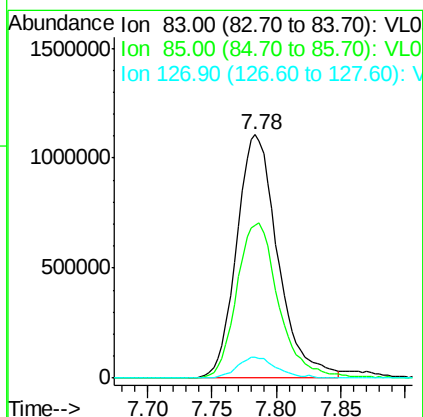
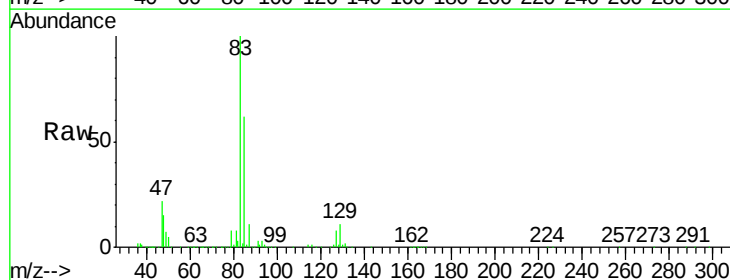
#41
Tetrahydrofuran
Concen: 10.053 ppbv
RT: 6.04
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : VL1012ABS01
Acq: 12 Oct 2021 14:22

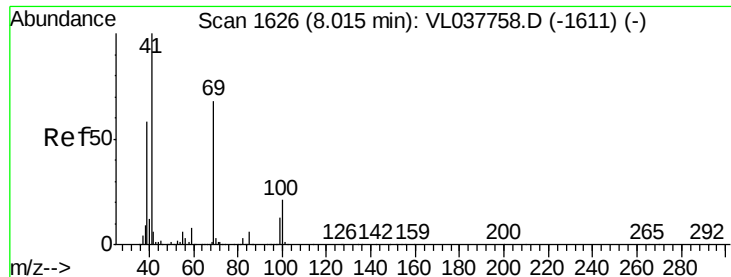
Tgt Ion	Ratio	Lower	Upper
42	100		
72	39.5	31.9	47.9
71	37.1	30.3	45.5



#42
Bromodichloromethane
Concen: 10.088 ppbv
RT: 7.78 min Scan# 1554
Delta R.T.: -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

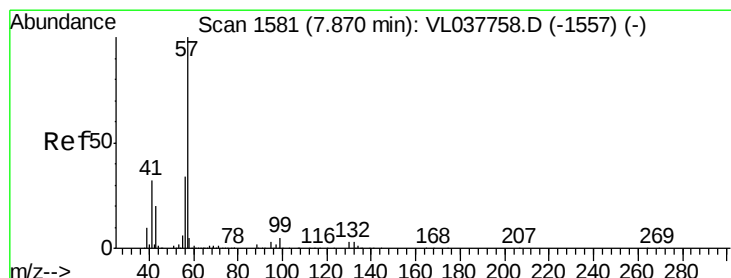
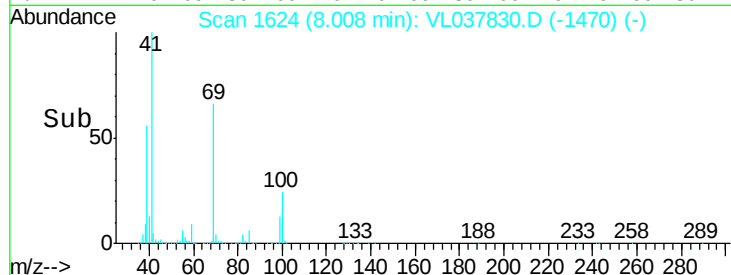
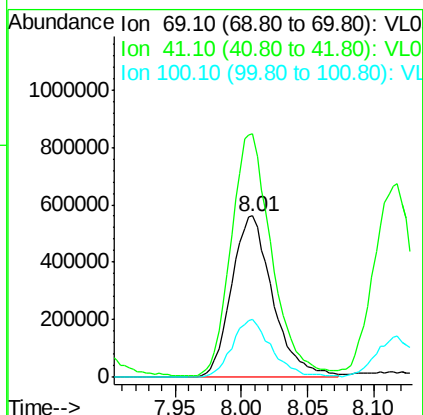
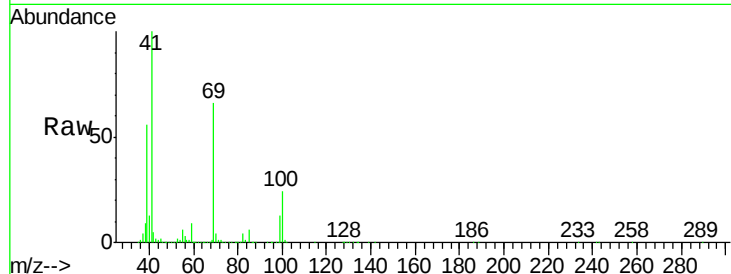
Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.6	75.8
127	8.3	6.2	9.4





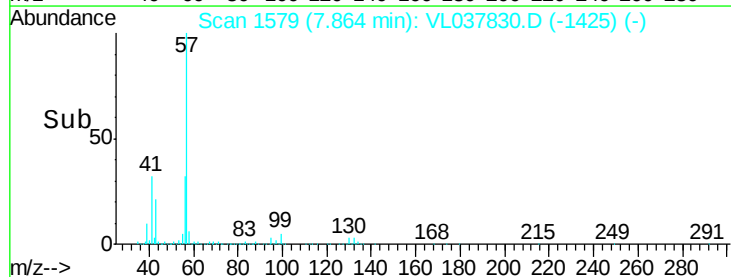
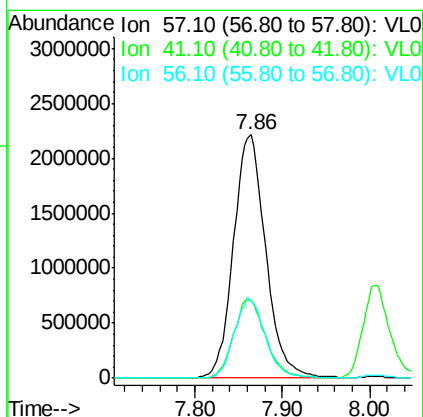
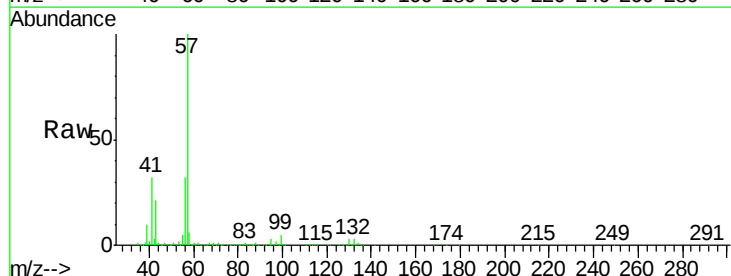
#43
Methyl Methacrylate
Concen: 10.532 ppbv
RT: 8.01
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
VL1012ABS01
Acq: 12 Oct 2021 14:22

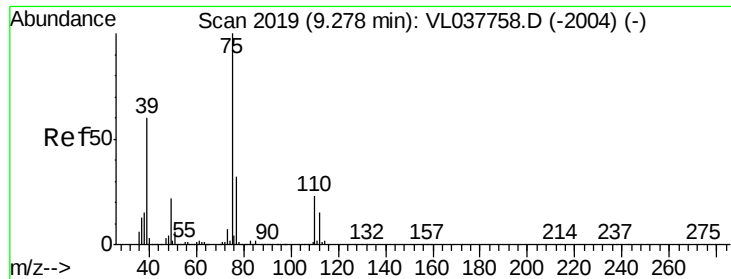
Tgt Ion: 69 Resp: 1214037
Ion Ratio Lower Upper
69 100
41 148.4 121.0 181.4
100 34.8 27.7 41.5



#44
2,2,4-Trimethylpentane
Concen: 9.567 ppbv
RT: 7.86 min Scan# 1579
Delta R.T.: -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

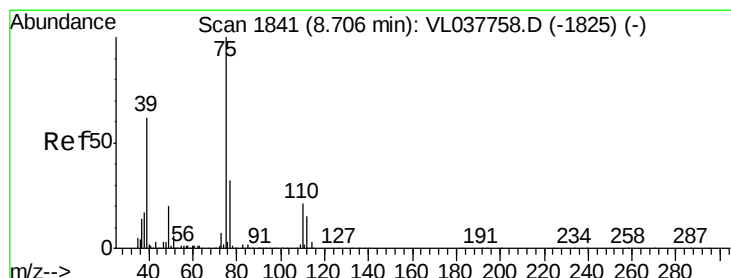
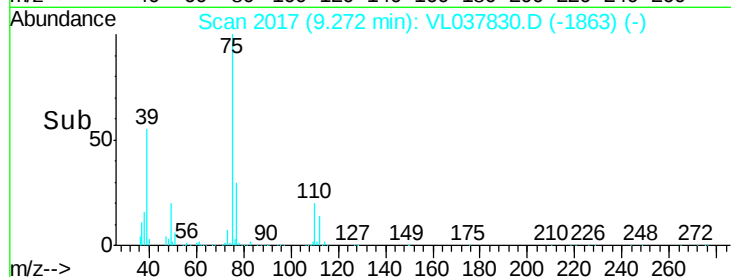
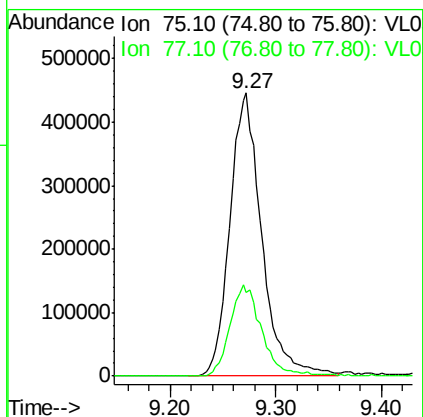
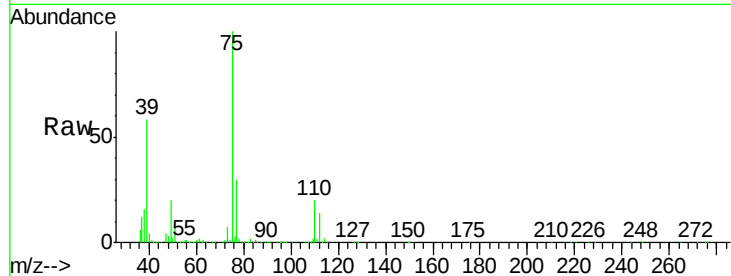
Tgt Ion: 57 Resp: 5672547
Ion Ratio Lower Upper
57 100
41 32.6 25.6 38.4
56 31.7 25.5 38.3





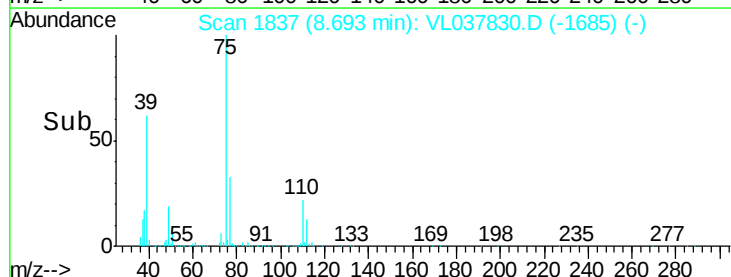
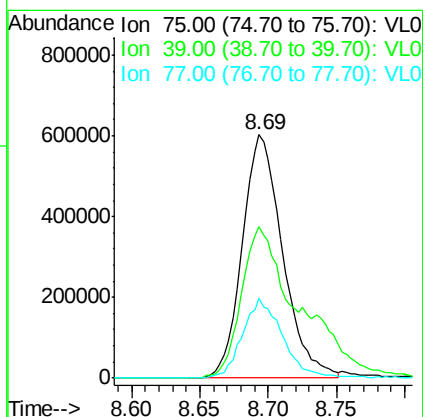
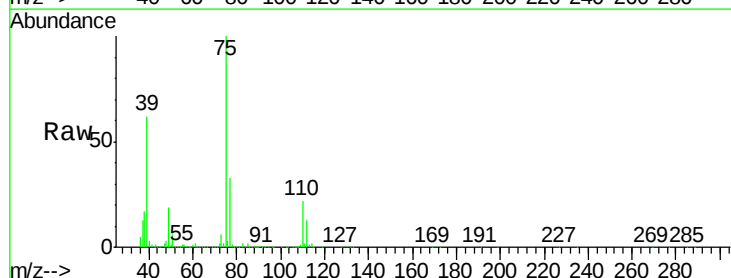
#45
t-1,3-Dichloropropene
Concen: 11.773 ppbv
RT: 9.27
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VL1012ABS01
Acq: 12 Oct 2021 14:22

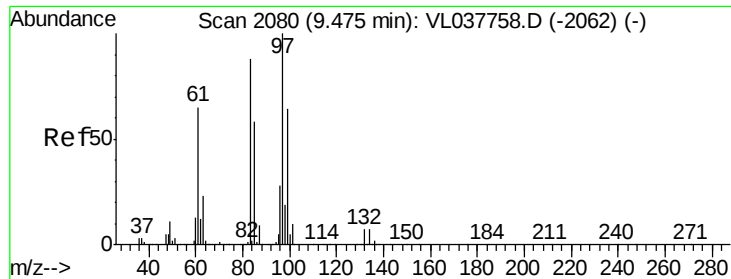
Tgt Ion: 75 Resp: 933715
Ion Ratio Lower Upper
75 100
77 29.7 25.2 37.8



#46
cis-1,3-Dichloropropene
Concen: 11.273 ppbv
RT: 8.69 min Scan# 1837
Delta R.T. -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

Tgt Ion: 75 Resp: 1239324
Ion Ratio Lower Upper
75 100
39 62.3 49.9 74.9
77 32.8 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 9.449 ppbv

RT: 9.46 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 14:22 VL1012ABS01

Tgt Ion: 97 Resp: 1363596

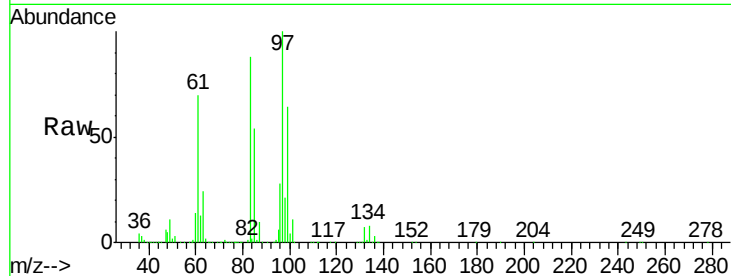
Ion Ratio Lower Upper

97 100

83 88.1 70.6 105.8

85 54.2 45.9 68.9

99 63.9 51.5 77.3

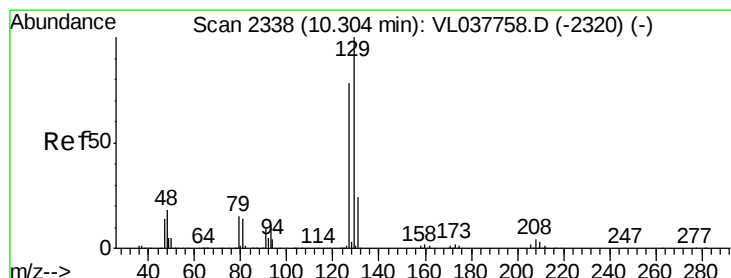
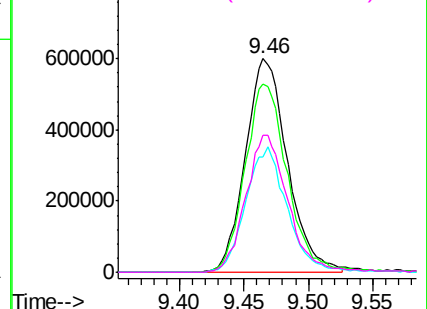
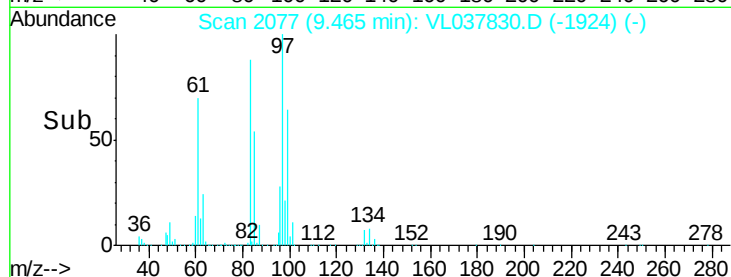


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.469 ppbv

RT: 10.29 min Scan# 2335

Delta R.T. -0.01 min

Lab File: VL037830.D

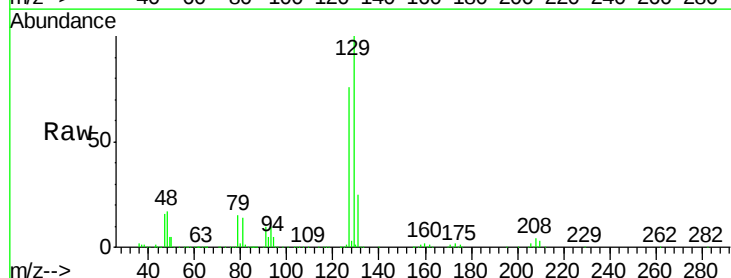
Acq: 12 Oct 2021 14:22

Tgt Ion: 129 Resp: 2153743

Ion Ratio Lower Upper

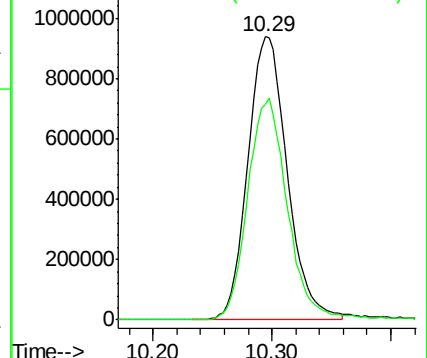
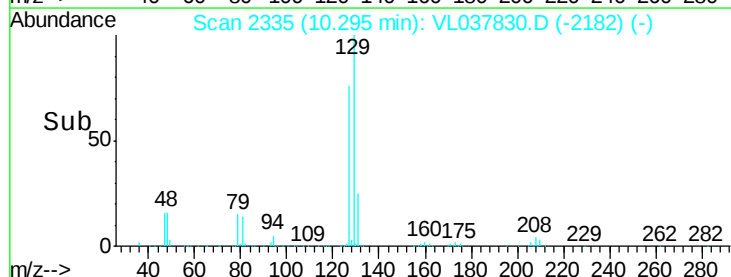
129 100

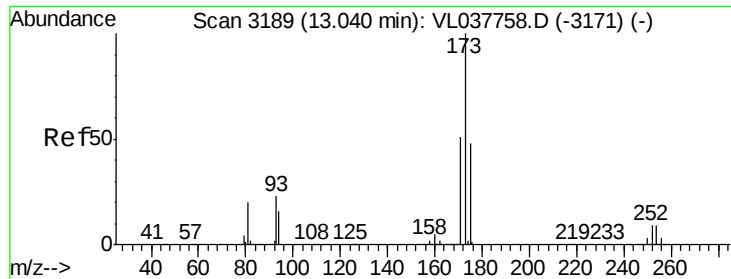
127 79.5 39.5 118.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.953 ppbv

RT: 13.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 14:22

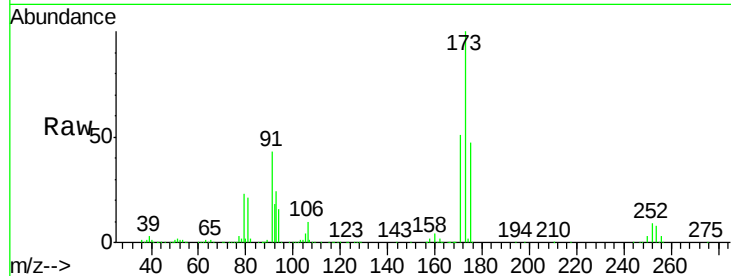
Tgt Ion: 173 Resp: 1724098

Ion Ratio Lower Upper

173 100

175 53.1 39.9 59.9

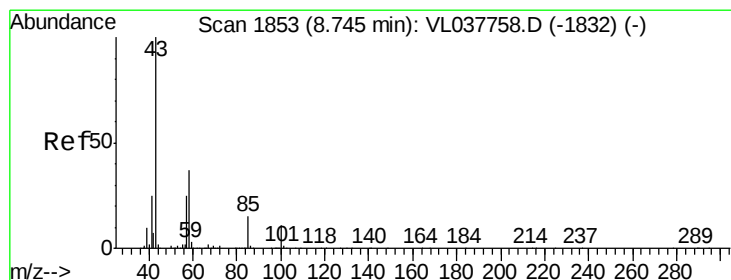
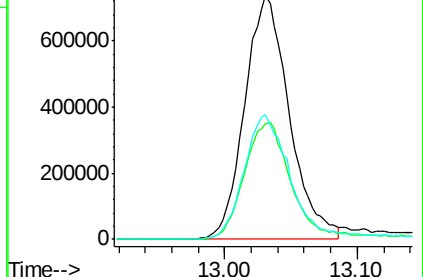
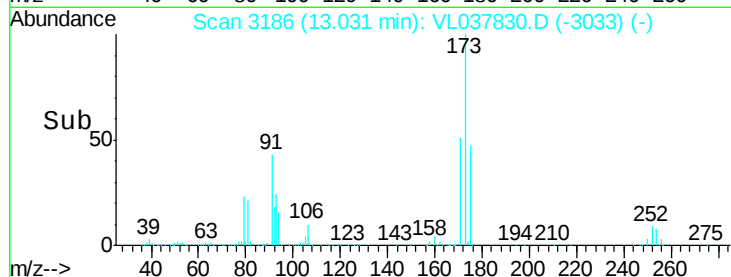
171 54.4 43.4 65.2



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: 10.194 ppbv

RT: 8.74 min Scan# 1850

Delta R.T. -0.01 min

Lab File: VL037830.D

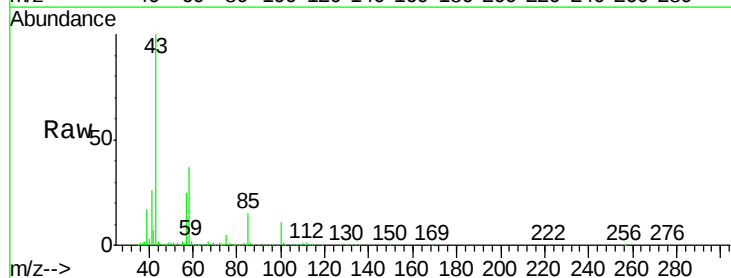
Acq: 12 Oct 2021 14:22

Tgt Ion: 43 Resp: 2213615

Ion Ratio Lower Upper

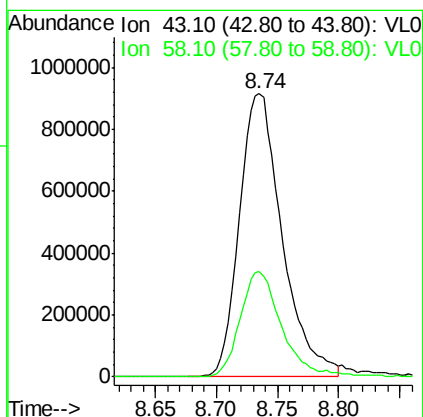
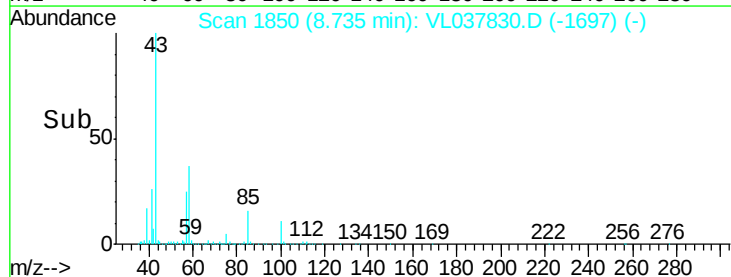
43 100

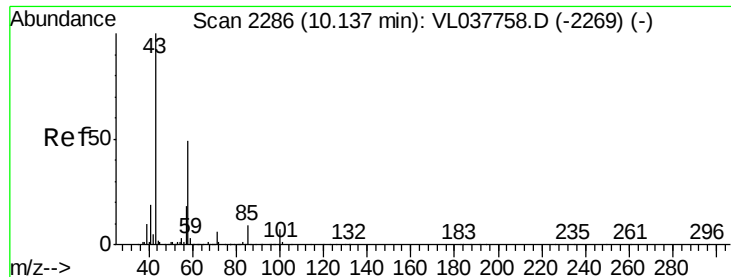
58 36.5 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

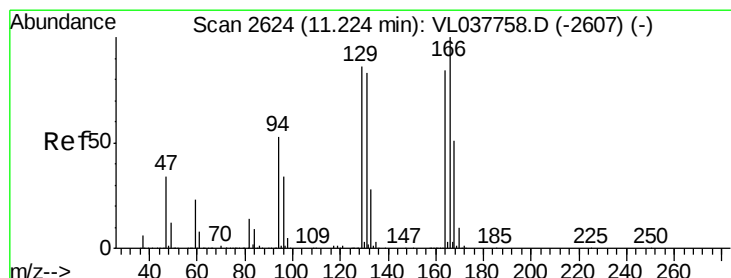
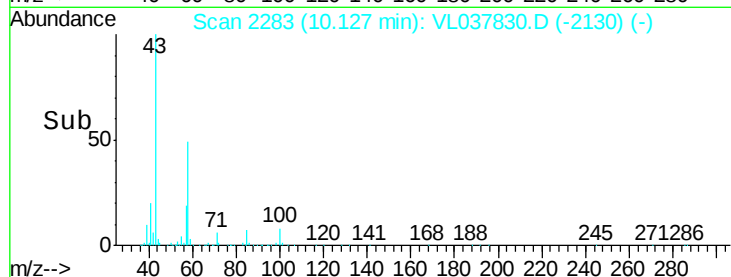
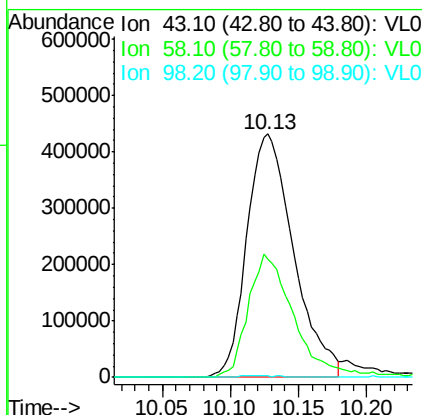
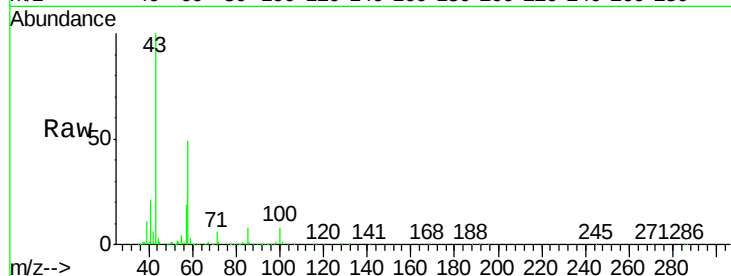




#51
2-Hexanone
Concen: 10.606 ppbv
RT: 10.13 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : VL1012ABS01
Acq: 12 Oct 2021 14:22

Tgt Ion: 43 Resp: 1028163

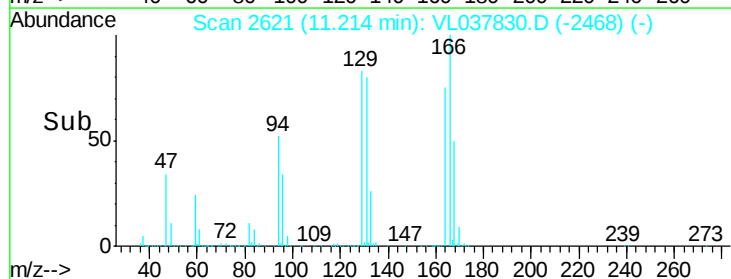
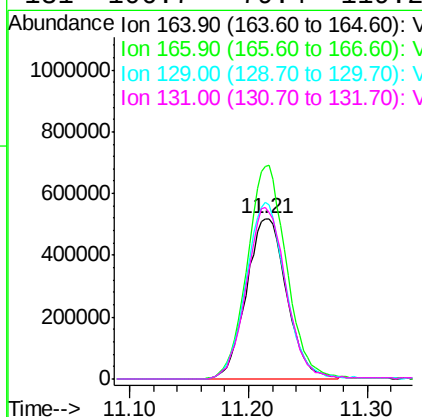
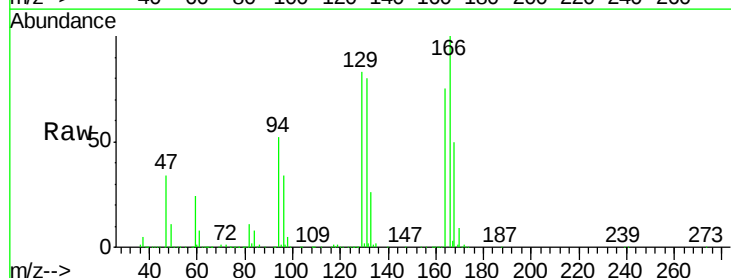
Ion	Ratio	Lower	Upper
43	100		
58	49.9	39.4	59.0
98	0.6	0.3	0.5#

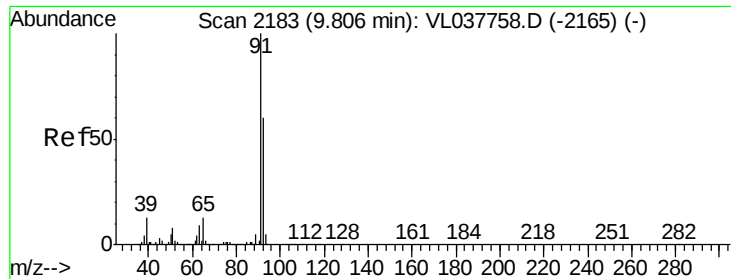


#52
Tetrachloroethene
Concen: 8.857 ppbv
RT: 11.21 min Scan# 2621
Delta R.T.: -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

Tgt Ion: 164 Resp: 1216061

Ion	Ratio	Lower	Upper
164	100		
166	132.8	95.4	143.2
129	110.4	82.2	123.4
131	106.7	79.4	119.2





#53

Toluene

Concen: 10.100 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

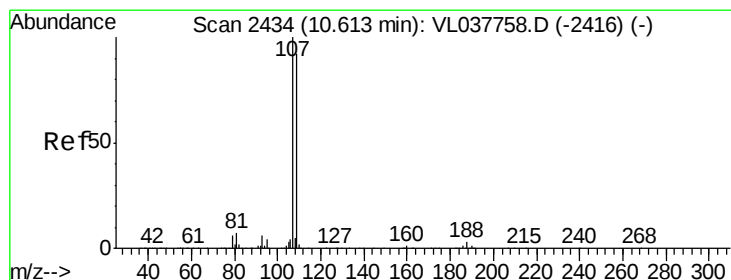
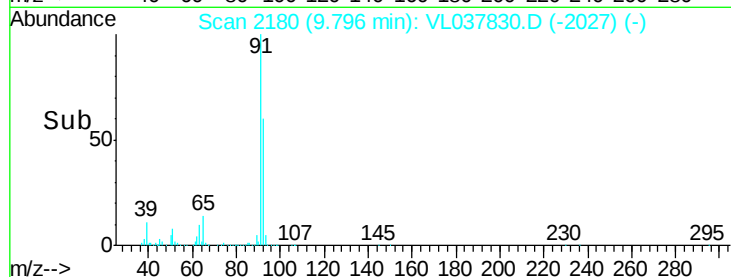
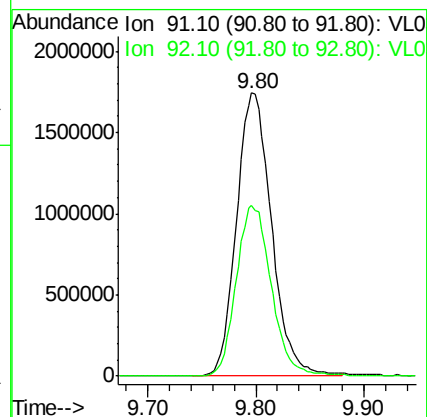
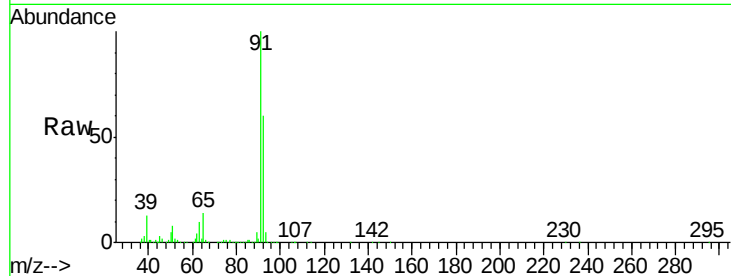
Acq: 12 Oct 2021 14:22 VL1012ABS01

Tgt Ion: 91 Resp: 3950118

Ion Ratio Lower Upper

91 100

92 60.5 48.4 72.6



#54

1,2-Dibromoethane

Concen: 9.858 ppbv

RT: 10.60 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL037830.D

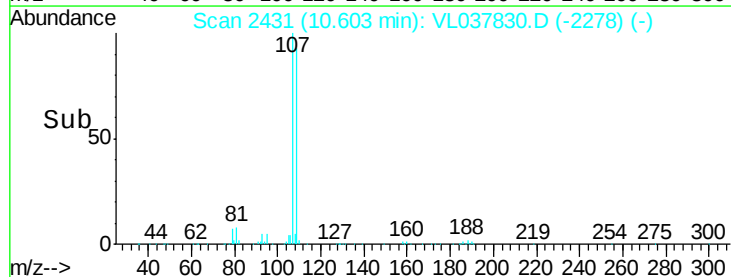
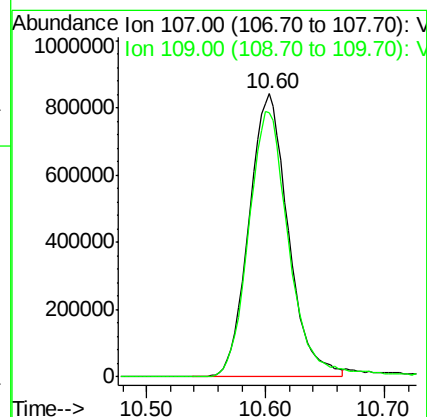
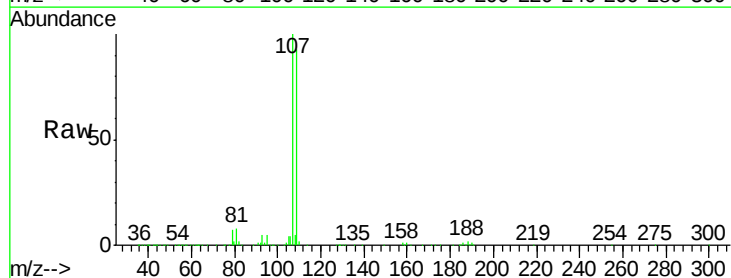
Acq: 12 Oct 2021 14:22

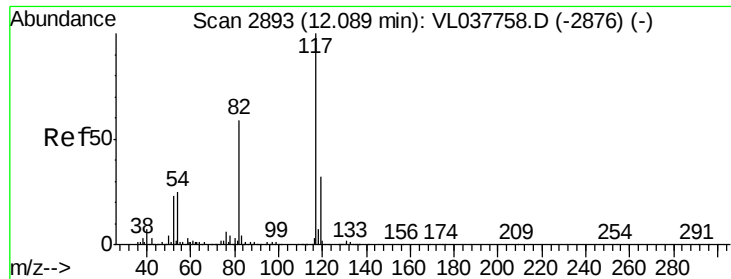
Tgt Ion: 107 Resp: 1921547

Ion Ratio Lower Upper

107 100

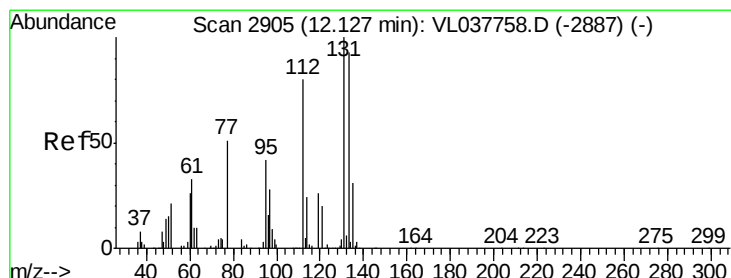
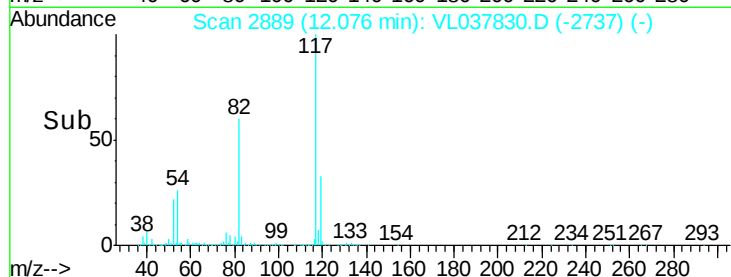
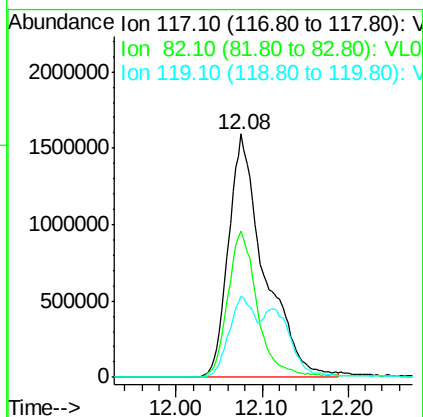
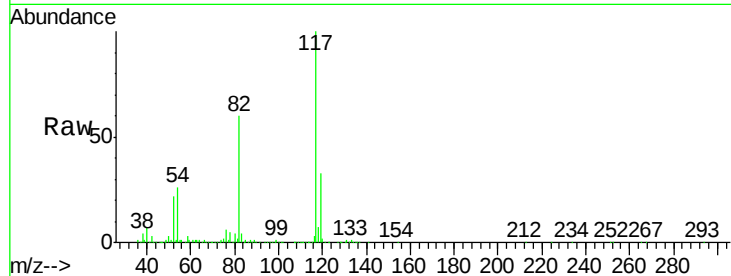
109 93.5 73.8 110.6





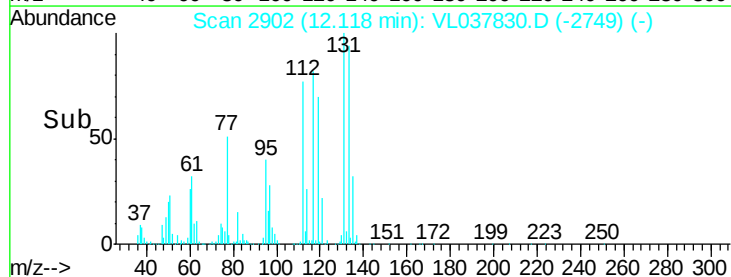
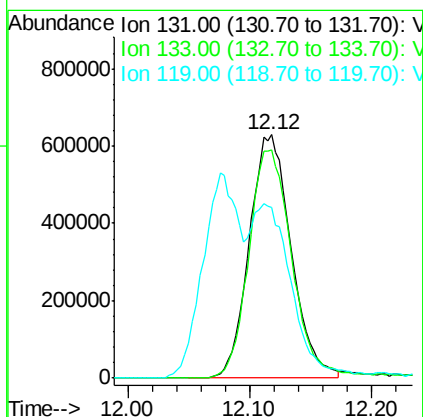
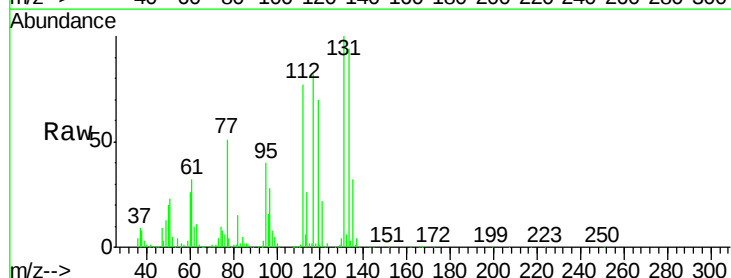
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL1012ABS01
Acq: 12 Oct 2021 14:22

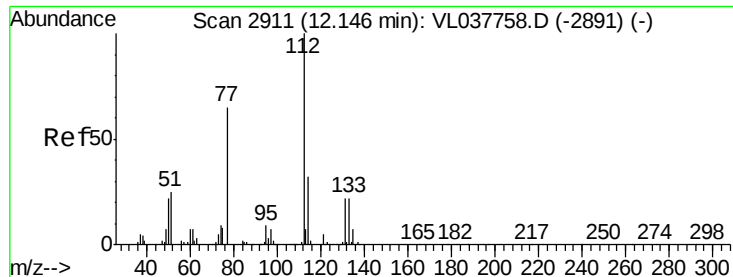
Tgt Ion:117 Resp: 4622560
Ion Ratio Lower Upper
117 100
82 50.4 52.2 78.2#
119 25.1 26.0 39.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.802 ppbv
RT: 12.12 min Scan# 2902
Delta R.T.: -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

Tgt Ion:131 Resp: 1493033
Ion Ratio Lower Upper
131 100
133 99.0 78.5 117.7
119 67.5 51.7 77.5

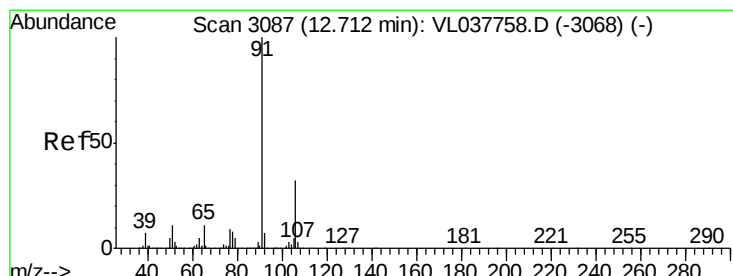
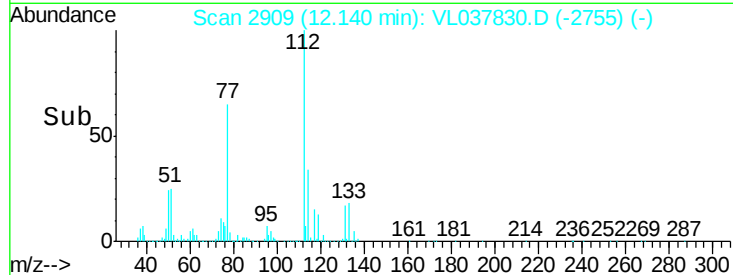
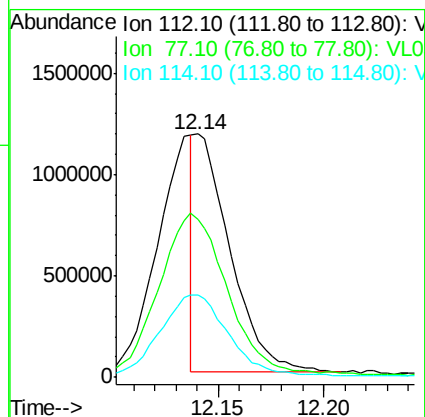
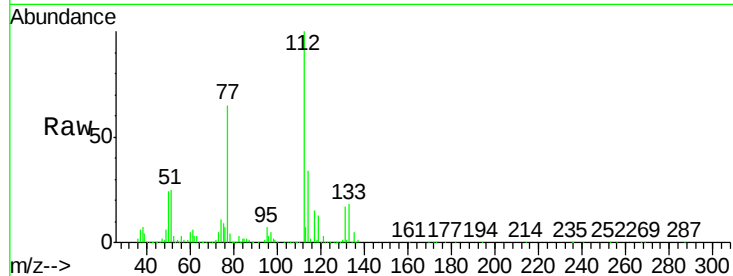




#57
Chlorobenzene
Concen: 3.599 ppbv
RT: 12.14 min
Instrument: MSVOA_1
Delta R.T.: -0.01 min
Lab File: VL1012ABS01
Acq: 12 Oct 2021 14:22

Tgt Ion: 112 Resp: 1364684

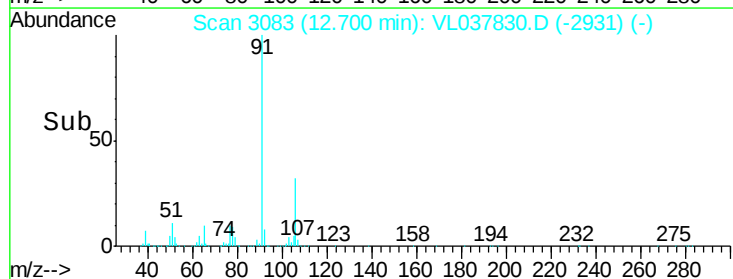
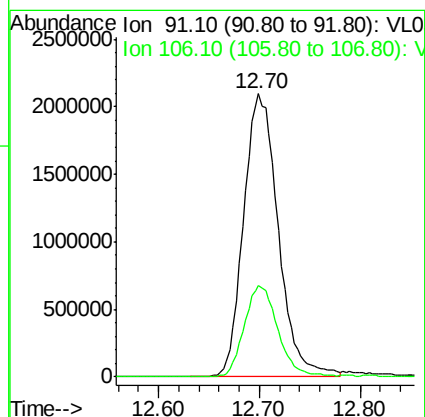
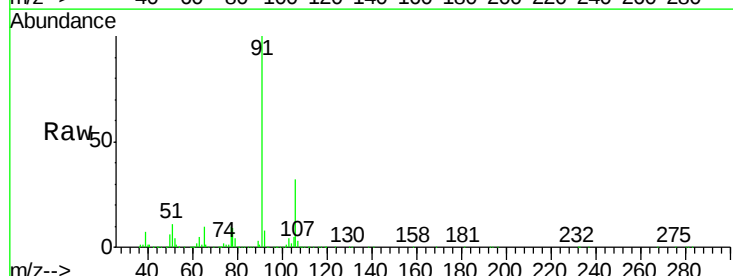
Ion	Ratio	Lower	Upper
112	100		
77	64.3	51.8	77.8
114	33.5	28.8	35.2

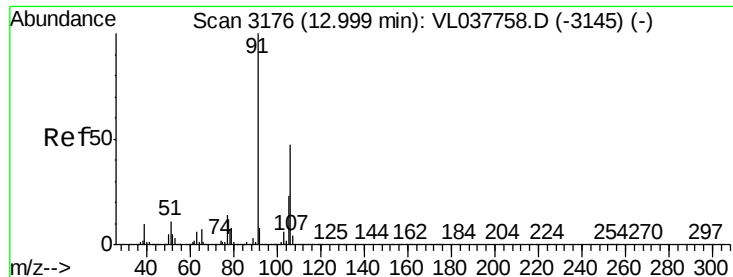


#58
Ethyl Benzene
Concen: 8.039 ppbv
RT: 12.70 min Scan# 3083
Delta R.T.: -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

Tgt Ion: 91 Resp: 4989786

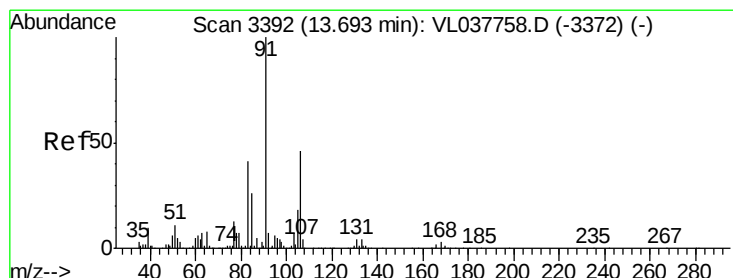
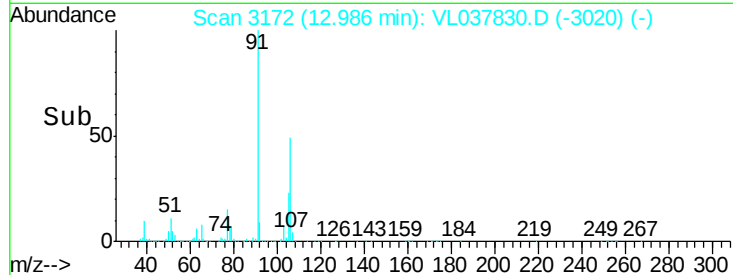
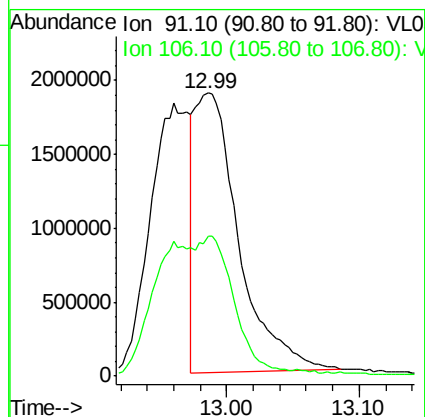
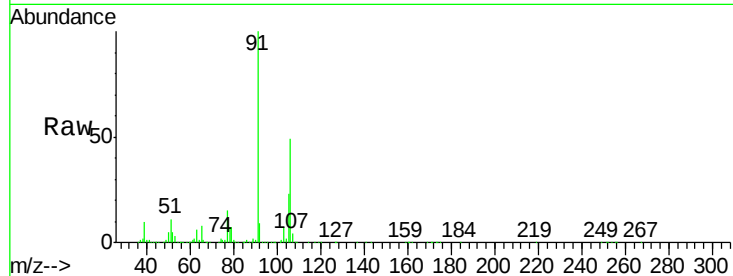
Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.3	37.9





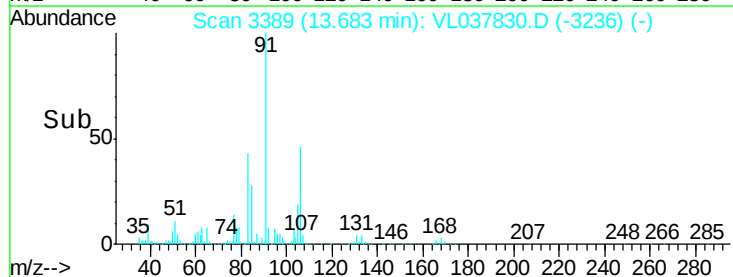
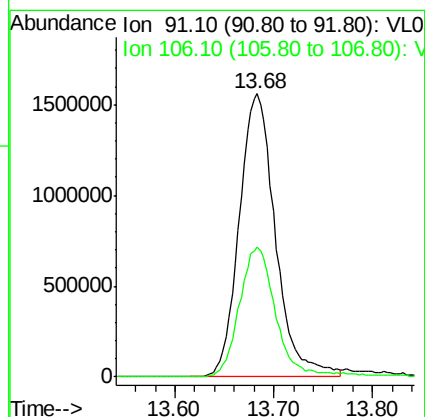
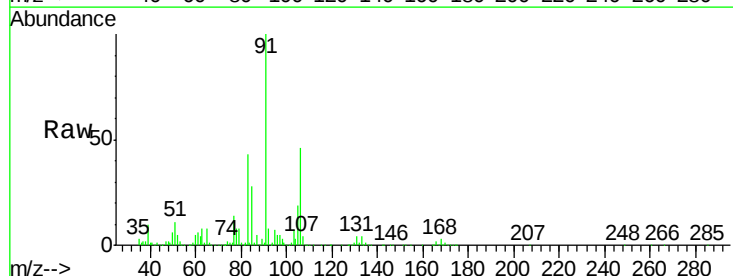
#59
m/p-Xylene
Concen: 8.084 ppbv
RT: 12.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : VL1012ABS01
Acq: 12 Oct 2021 14:22

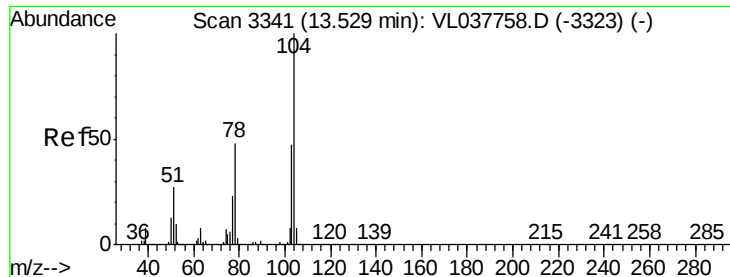
Tgt Ion: 91 Resp: 4307370
Ion Ratio Lower Upper
91 100
106 90.0 36.7 55.1#



#60
o-Xylene
Concen: 7.765 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

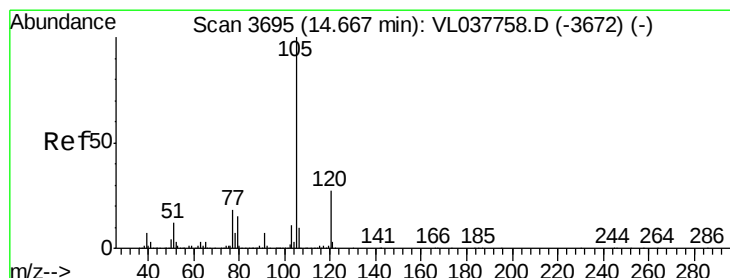
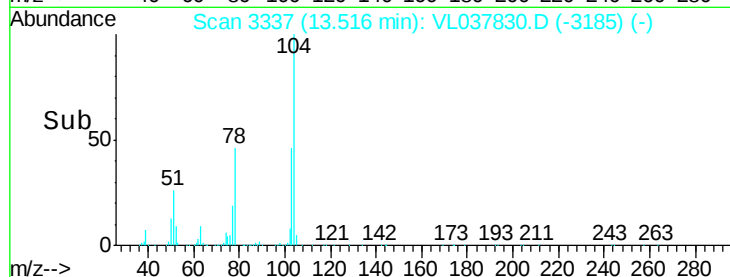
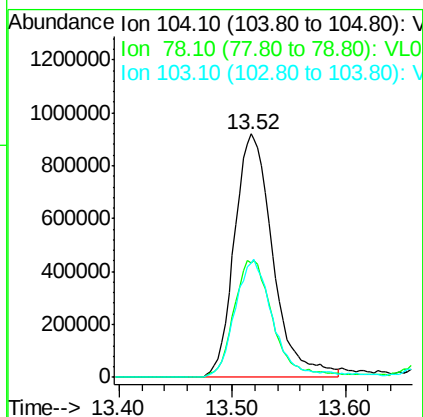
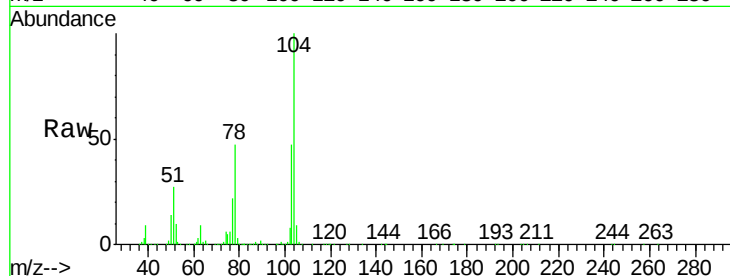
Tgt Ion: 91 Resp: 3964857
Ion Ratio Lower Upper
91 100
106 46.2 23.5 70.5





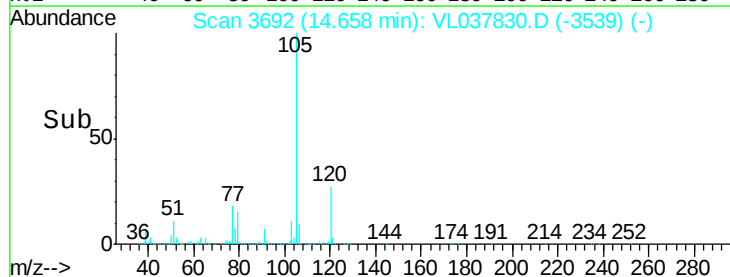
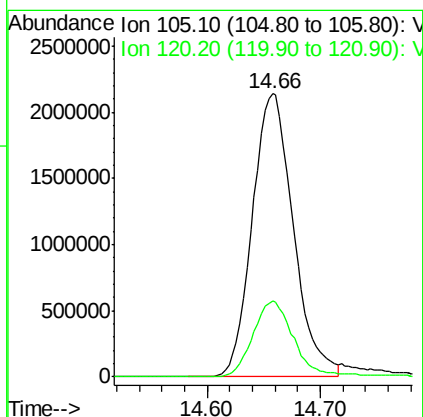
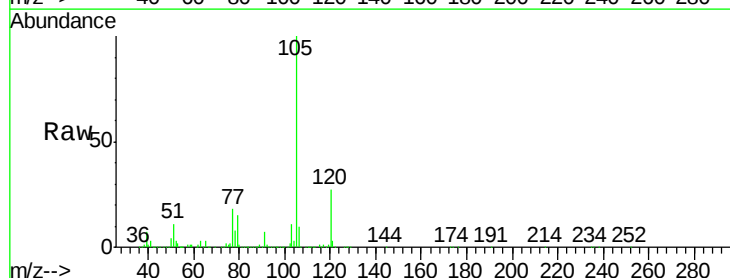
#61
Styrene
Concen: 8.812 ppbv
RT: 13.52
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : VL1012ABS01
Acq: 12 Oct 2021 14:22

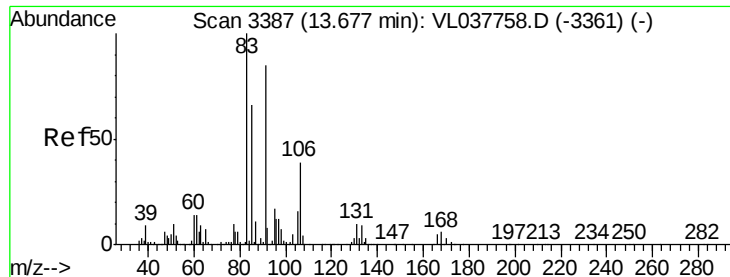
Tgt Ion:104 Resp: 2176554
Ion Ratio Lower Upper
104 100
78 50.0 40.6 61.0
103 49.0 39.6 59.4



#62
Isopropylbenzene
Concen: 7.577 ppbv
RT: 14.66 min Scan# 3692
Delta R.T.: -0.01 min
Lab File: VL037830.D
Acq: 12 Oct 2021 14:22

Tgt Ion:105 Resp: 5396632
Ion Ratio Lower Upper
105 100
120 27.2 21.3 31.9





#63

1,1,2,2-Tetrachloroethane

Concen: 7.166 ppbv

RT: 13.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 14:22

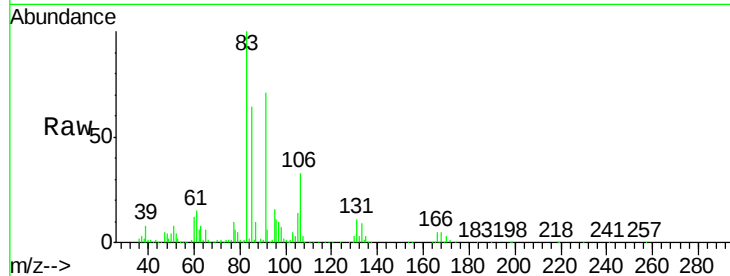
Tgt Ion: 83 Resp: 2823643

Ion Ratio Lower Upper

83 100

131 10.0 5.0 15.0

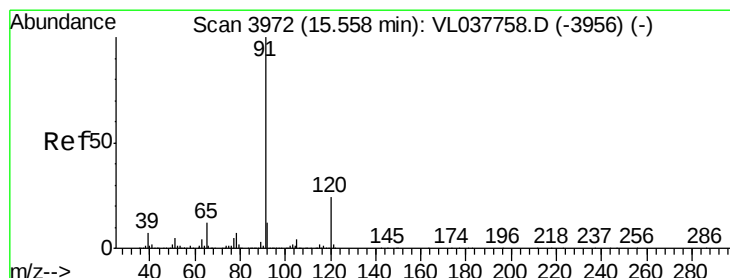
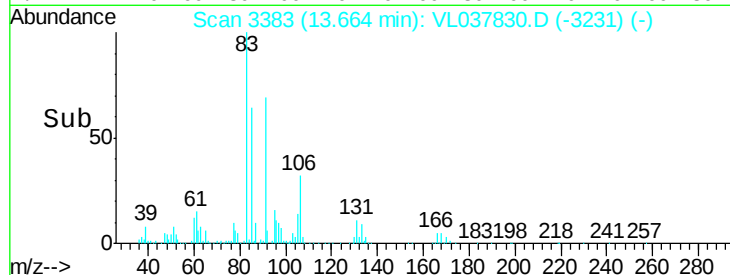
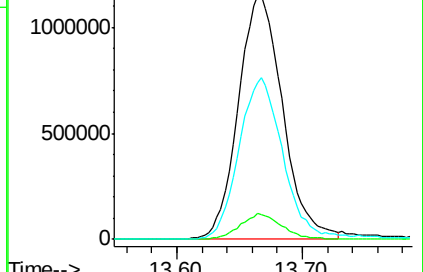
85 67.8 33.1 99.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.194 ppbv

RT: 15.55 min Scan# 3969

Delta R.T. -0.01 min

Lab File: VL037830.D

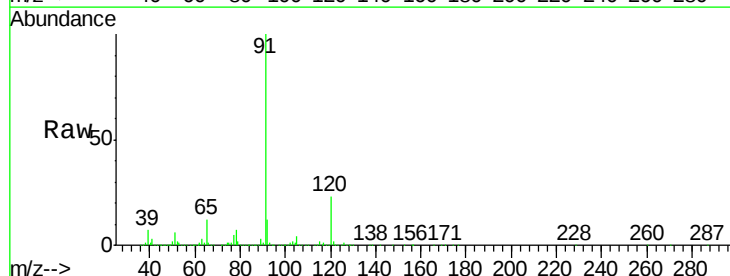
Acq: 12 Oct 2021 14:22

Tgt Ion: 120 Resp: 1455331

Ion Ratio Lower Upper

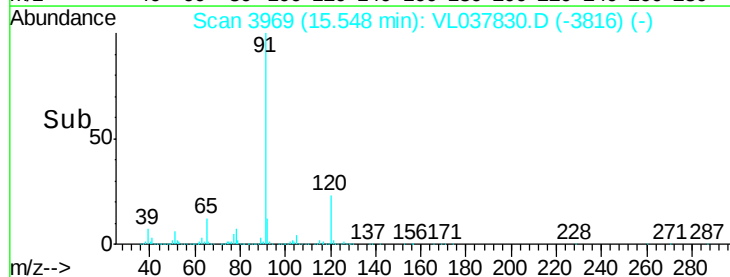
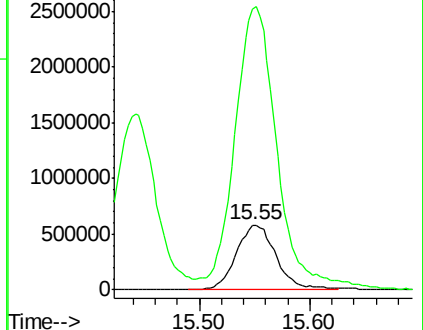
120 100

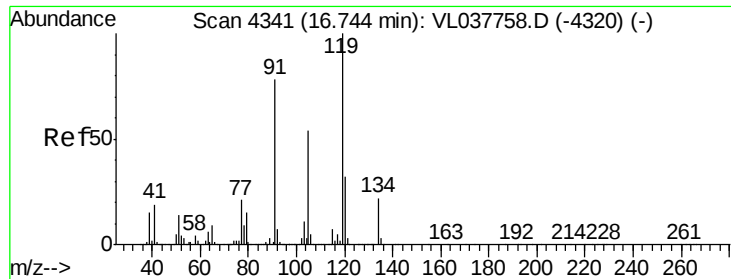
91 466.7 375.0 562.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

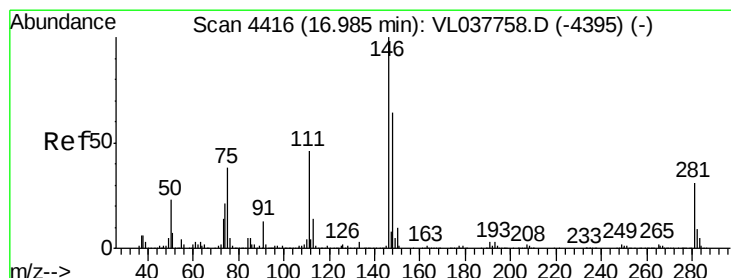
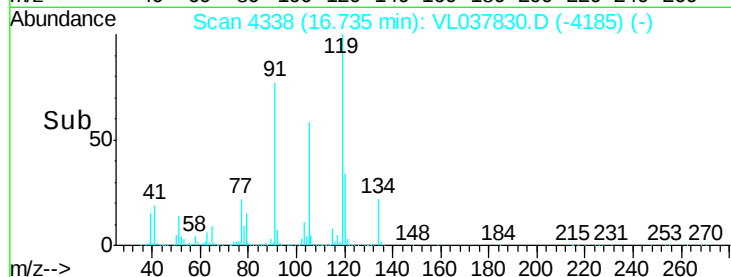
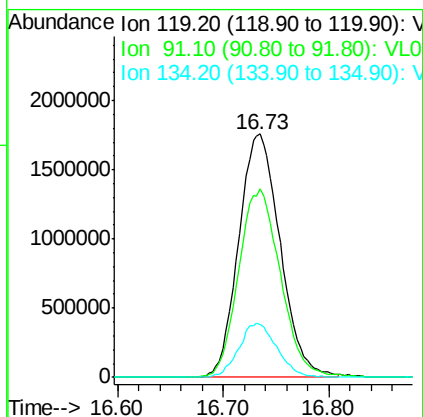
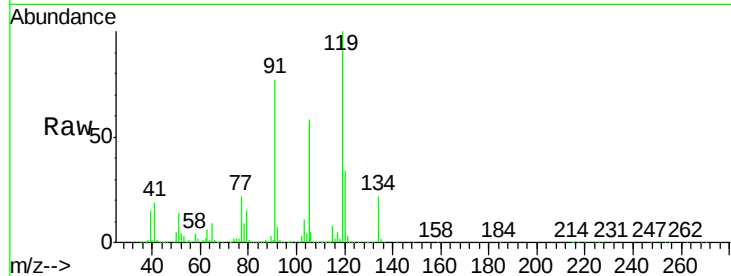
Ion 91.10 (90.80 to 91.80): VL0





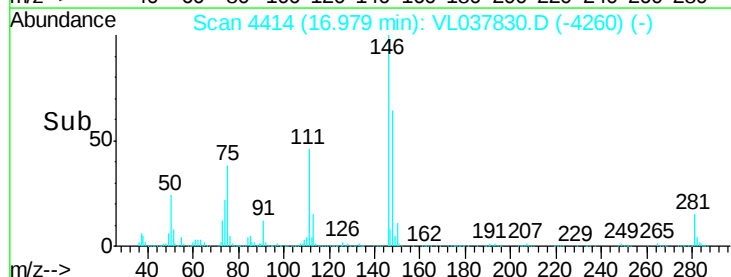
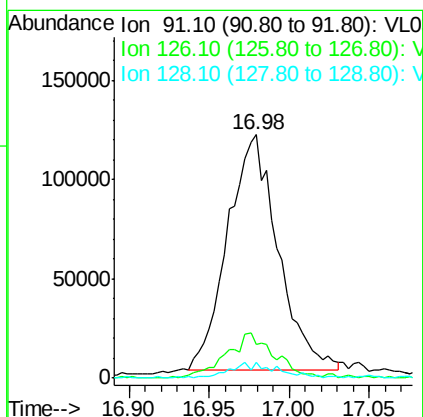
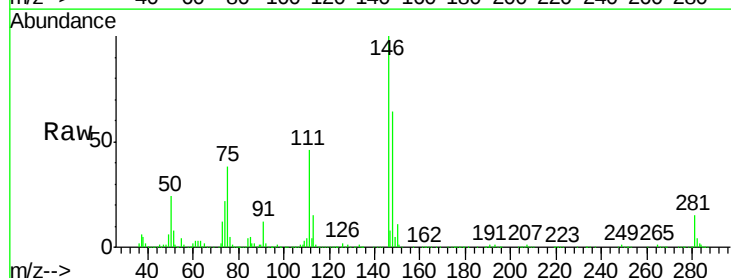
#65
 tert-Butylbenzene
 Concen: 7.672 ppbv
 RT: 16.73 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

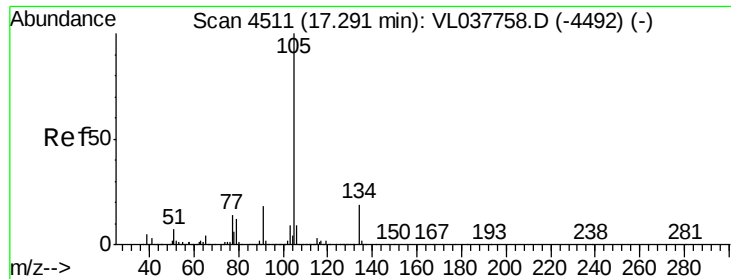
Tgt Ion: 119 Resp: 4808260
 Ion Ratio Lower Upper
 119 100
 91 78.2 62.6 94.0
 134 20.6 16.3 24.5



#66
 Benzyl Chloride
 Concen: 8.248 ppbv
 RT: 16.98 min Scan# 4414
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

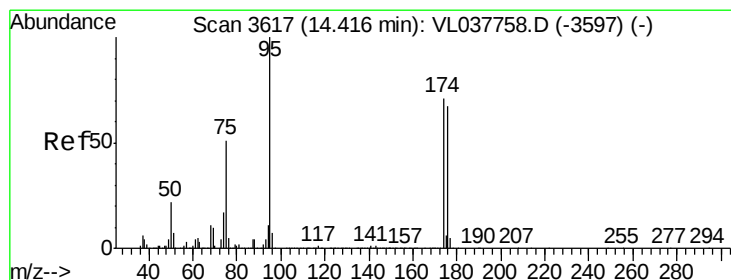
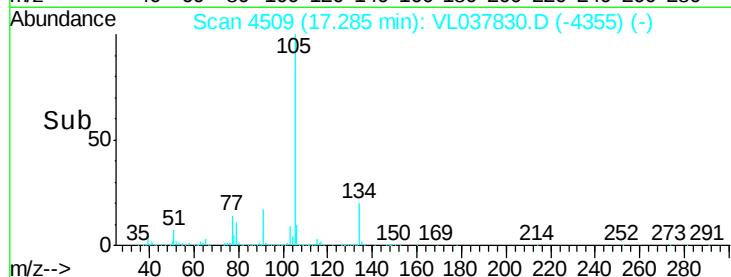
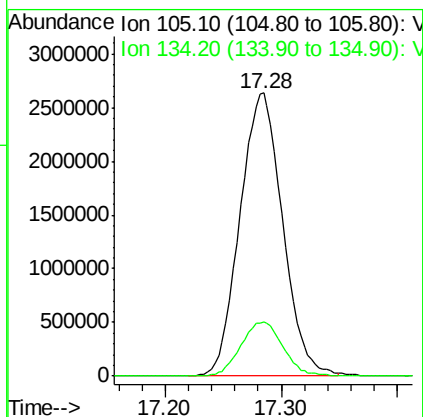
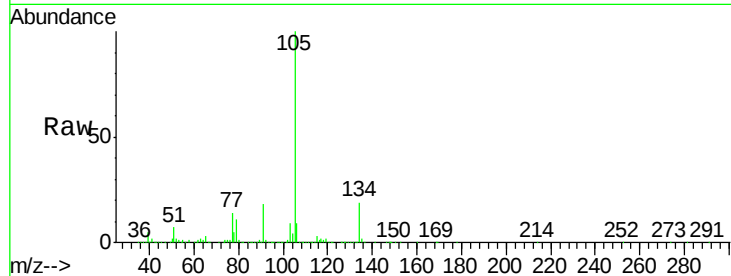
Tgt Ion: 91 Resp: 255113
 Ion Ratio Lower Upper
 91 100
 126 19.4 0.0 0.0#
 128 7.4 5.3 7.9





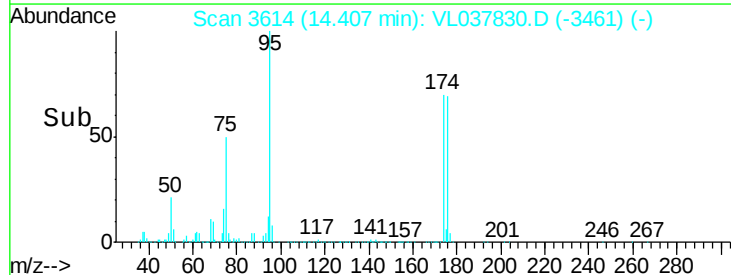
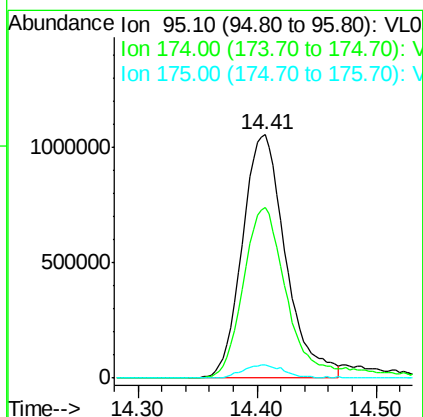
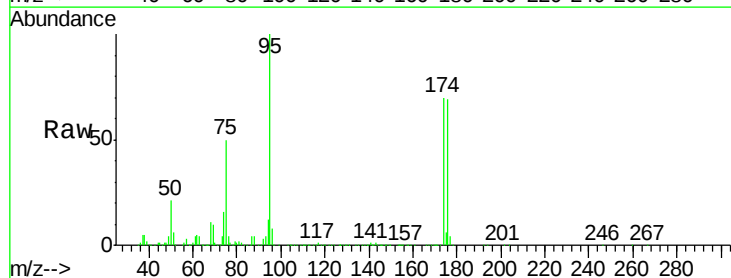
#67
 sec-Butylbenzene
 Concen: 7.843 ppbv
 RT: 17.28 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

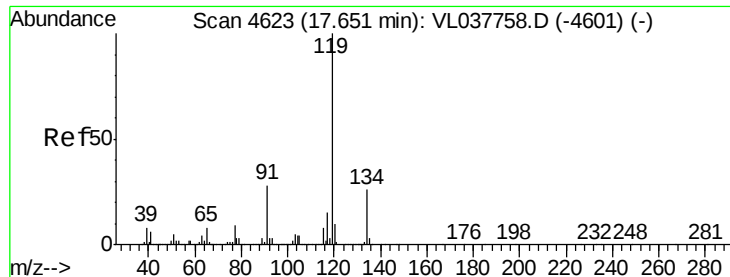
Tgt Ion: 105 Resp: 6722953
 Ion Ratio Lower Upper
 105 100
 134 19.1 15.4 23.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.242 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T.: -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

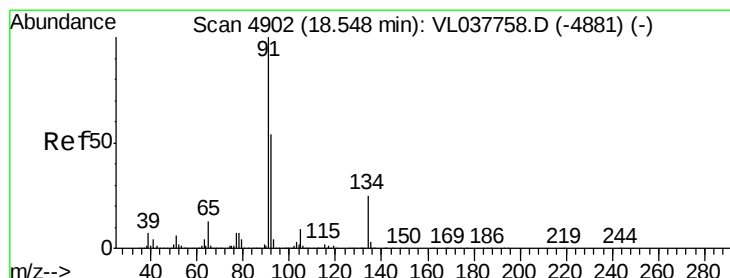
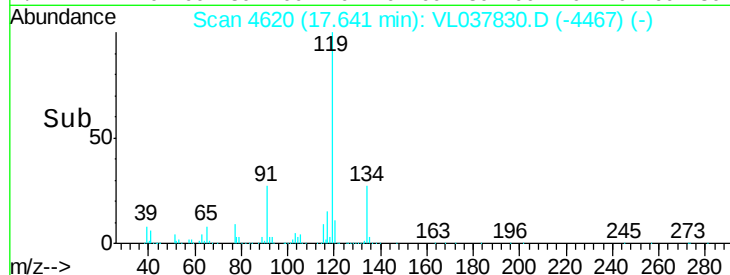
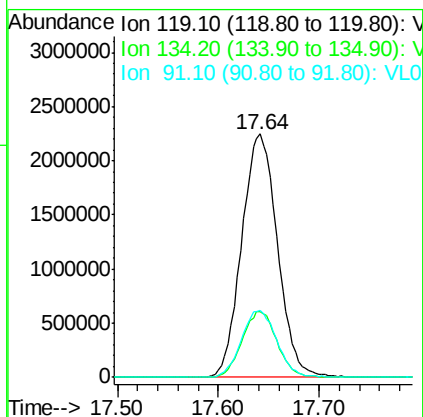
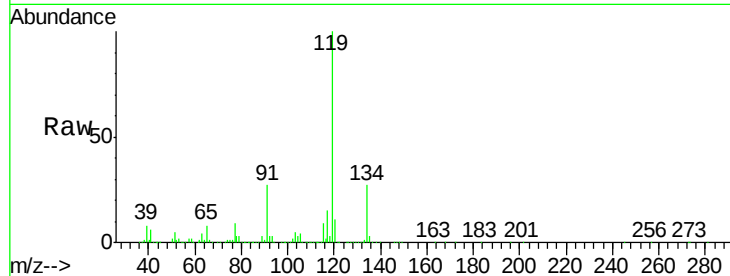
Tgt Ion: 95 Resp: 2664256
 Ion Ratio Lower Upper
 95 100
 174 74.1 57.8 86.6
 175 5.8 4.7 7.1





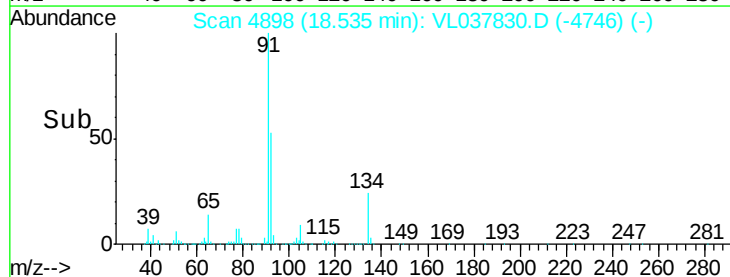
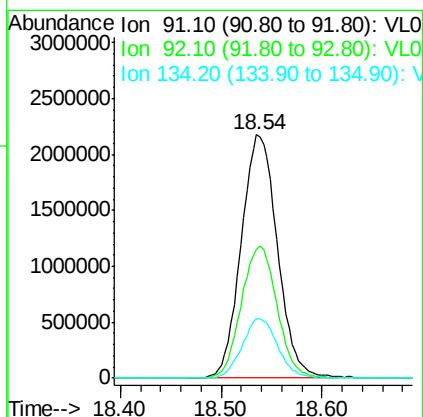
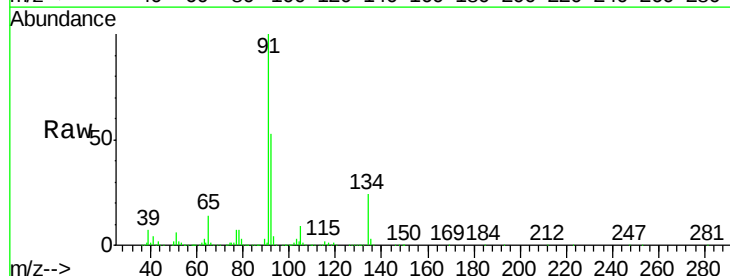
#69
 p-Isopropyltoluene
 Concen: 7.958 ppbv
 RT: 17.64
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

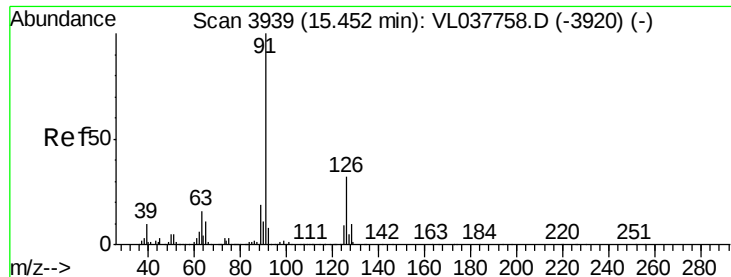
Tgt Ion: 119 Resp: 5514794
 Ion Ratio Lower Upper
 119 100
 134 26.6 21.2 31.8
 91 27.3 22.2 33.4



#70
 n-Butylbenzene
 Concen: 8.201 ppbv
 RT: 18.54 min Scan# 4898
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

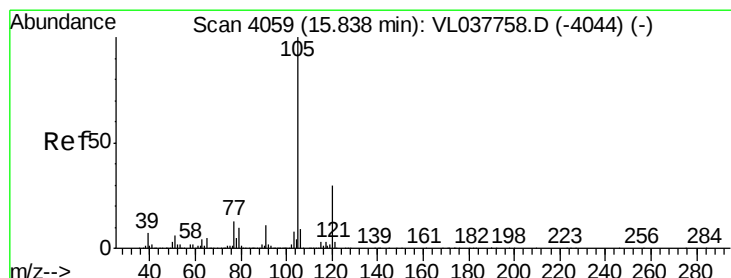
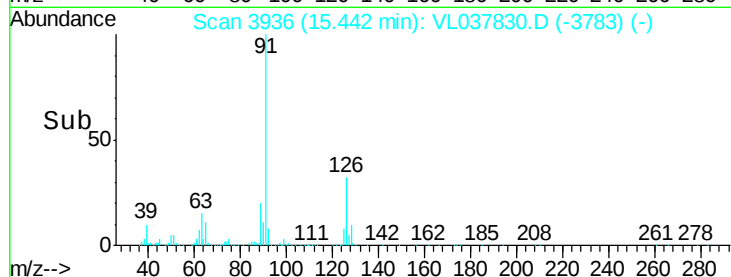
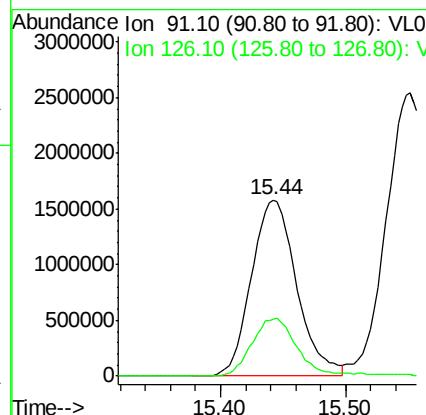
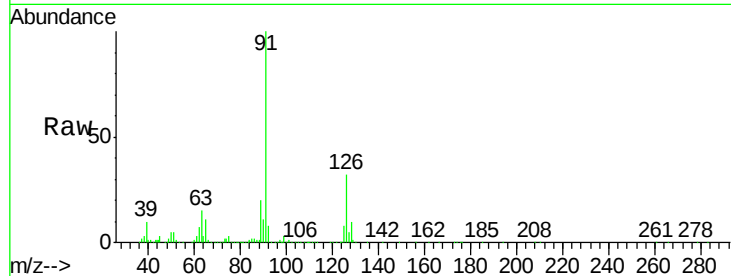
Tgt Ion: 91 Resp: 5399130
 Ion Ratio Lower Upper
 91 100
 92 53.9 43.4 65.0
 134 24.2 19.8 29.6





#71
 2-Chlorotoluene
 Concen: 7.902 ppbv
 RT: 15.44
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL1012ABS01
 Acq: 12 Oct 2021 14:22

Tgt Ion: 91 Resp: 3974157
 Ion Ratio Lower Upper
 91 100
 126 34.1 13.6 54.6



#72
 4-Ethyltoluene
 Concen: 8.331 ppbv
 RT: 15.82 min Scan# 4055
 Delta R.T. -0.01 min
 Lab File: VL037830.D
 Acq: 12 Oct 2021 14:22

Tgt Ion: 105 Resp: 4830243
 Ion Ratio Lower Upper
 105 100
 120 30.0 24.2 36.2
 91 11.8 10.4 15.6
 77 12.7 10.3 15.5

