

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060622\
 Data File : VL039180.D
 Acq On : 6 Jun 2022 10:47
 Operator : SY/AP
 Sample : N3110-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7

Quant Time: Jun 06 12:02:03 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1207181	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2989958	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2734914	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2184509	9.66	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	41922	0.20	ppbv	97
3) Chlorodifluoromethane	2.98	51	32697	0.21	ppbv	100
4) Chloromethane	3.14	50	36442	0.46	ppbv	90
5) Vinyl Chloride	3.26	62	2509	0.03	ppbv #	61
6) Bromomethane	3.48	94	1736	0.05	ppbv #	8
7) Chloroethane	3.57	64	864	0.03	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	8919	0.05	ppbv #	69
9) Propene	3.02	41	8015	0.12	ppbv #	15
10) Heptane	8.12	43	264901	1.70	ppbv	99
11) Trichlorofluoromethane	3.95	101	74680	0.39	ppbv #	83
12) 1,1,2-Trichlorotrifluoroet	4.49	101	14076	0.11	ppbv #	71
13) Ethanol	3.60	45	293209	80.28	ppbv #	100
15) Acetone	3.85	43	773031	6.15	ppbv	91
16) 1,3-Butadiene	3.34	39	3869	0.06	ppbv #	14
17) tert-Butyl alcohol	4.29	59	121166	1.24	ppbv #	91
19) Isopropyl Alcohol	3.97	45	147647	2.50	ppbv #	1
20) Methylene Chloride	4.35	84	92787	1.75	ppbv	98
21) Allyl Chloride	4.42	41	3511	0.04	ppbv #	46
22) trans-1,2-Dichloroethene	4.89	96	3599	0.07	ppbv #	84
23) Vinyl Acetate	5.06	43	98386	0.95	ppbv #	80
24) 1,1-Dichloroethane	5.01	63	8772	0.06	ppbv #	93
25) Ethyl Acetate	5.68	43	199454	0.70	ppbv #	92
26) Hexane	5.68	57	191068	1.53	ppbv #	54
27) Carbon Disulfide	4.55	76	543657	4.21	ppbv	98
29) Chloroform	5.74	83	9361	0.04	ppbv	87
30) Cyclohexane	7.13	84	16437	0.16	ppbv #	5
32) 1,1,1-Trichloroethane	6.51	97	21621	0.11	ppbv #	88
34) 2-Butanone	5.24	43	210700	1.30	ppbv	99
35) Carbon Tetrachloride	7.02	117	9189	0.04	ppbv #	78
36) Benzene	6.89	78	74593	0.31	ppbv	93
38) Trichloroethene	7.83	130	6092	0.05	ppbv #	80
39) 1,2-Dichloropropane	7.17	63	766513	7.94	ppbv #	24
40) 1,4-Dioxane	7.84	88	8169	0.26	ppbv #	1
41) Tetrahydrofuran	6.05	42	7152	0.07	ppbv #	36
43) Methyl Methacrylate	8.01	69	3431	0.04	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	152175	0.36	ppbv #	86
45) t-1,3-Dichloropropene	9.27	75	3172	0.03	ppbv	90
46) cis-1,3-Dichloropropene	8.69	75	4204	0.03	ppbv #	70
50) 4-Methyl-2-Pentanone	8.74	43	28161	0.12	ppbv #	62
51) 2-Hexanone	10.12	43	23917	0.13	ppbv #	28
52) Tetrachloroethene	11.22	164	3488302	36.81	ppbv	96

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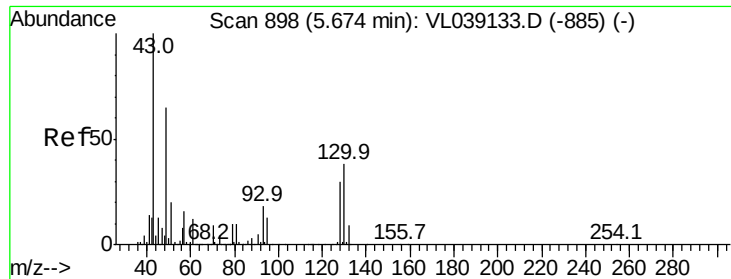
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7

Quant Time: Jun 06 12:02:03 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
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 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

53) Toluene	9.80	91	2727560	9.76	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.12	131	5396	0.04	ppbv #	8
58) Ethyl Benzene	12.70	91	1016026	2.70	ppbv	97
59) m/p-Xylene	12.96	91	3563595	10.74	ppbv	93
60) o-Xylene	13.68	91	1414333	4.54	ppbv	100
61) Styrene	13.52	104	95511	0.57	ppbv	93
62) Isopropylbenzene	14.65	105	161235	0.35	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	5467	0.03	ppbv #	24
64) n-propylbenzene	15.55	120	150842	1.32	ppbv	83
65) tert-Butylbenzene	16.74	119	419813	0.99	ppbv #	72
66) Benzyl Chloride	17.19	91	54986	1.00	ppbv #	67
67) sec-Butylbenzene	17.27	105	93326	0.16	ppbv	96
69) p-Isopropyltoluene	17.64	119	312201	0.64	ppbv	95
70) n-Butylbenzene	18.54	91	470054	0.94	ppbv #	55
71) 2-Chlorotoluene	15.44	91	12401	0.04	ppbv #	1
72) 4-Ethyltoluene	15.82	105	1052192	2.88	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	888980	2.70	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	3461618	9.41	ppbv #	66
76) 1,4-Dichlorobenzene	17.11	146	9495	0.05	ppbv #	22
77) 1,2-Dichlorobenzene	17.80	146	8403	0.04	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.35	225	11522	0.06	ppbv #	18
79) Naphthalene	22.18	128	836100	2.95	ppbv	96
80) Naphthalene,2-methyl-	24.96	142	76528	0.73	ppbv #	93

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 6 Jun 2022 10:47

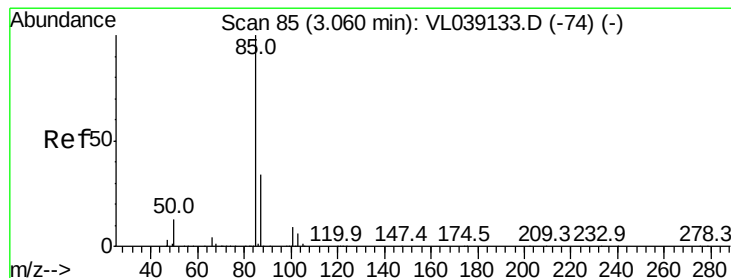
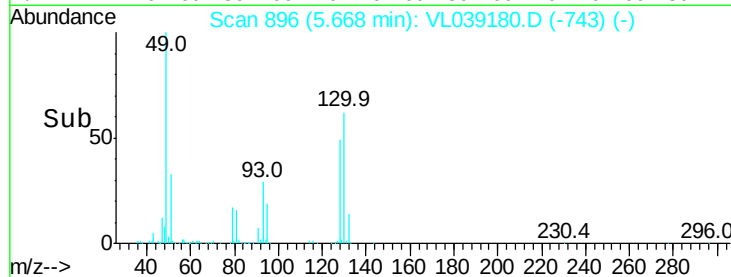
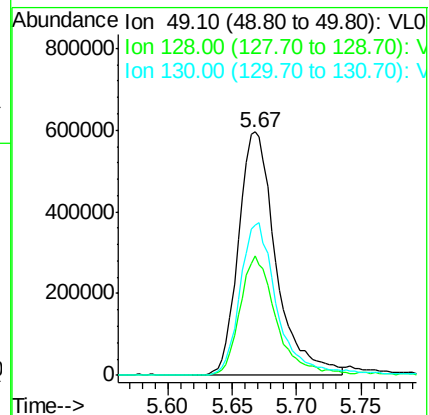
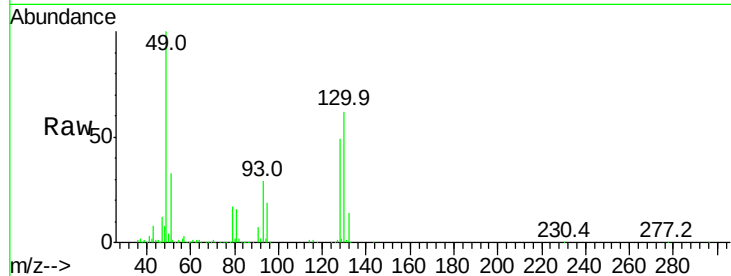
Tgt Ion: 49 Resp: 1207181

Ion Ratio Lower Upper

49 100

128 48.8 24.7 74.1

130 63.1 31.4 94.0



#2

Dichlorodifluoromethane

Concen: 0.20 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL039180.D

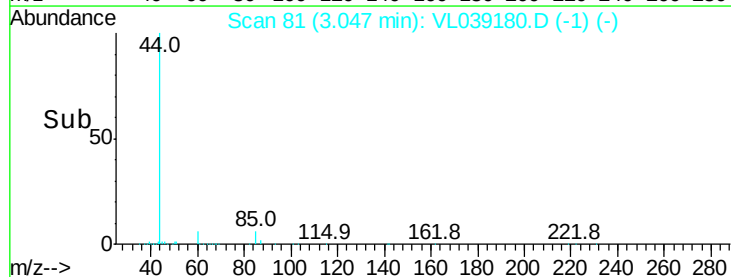
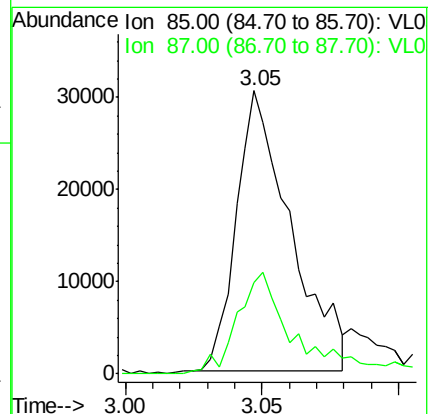
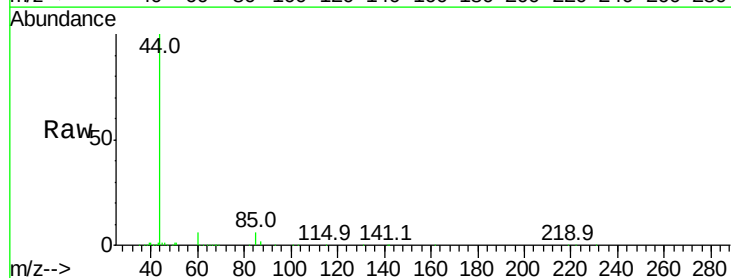
Acq: 6 Jun 2022 10:47

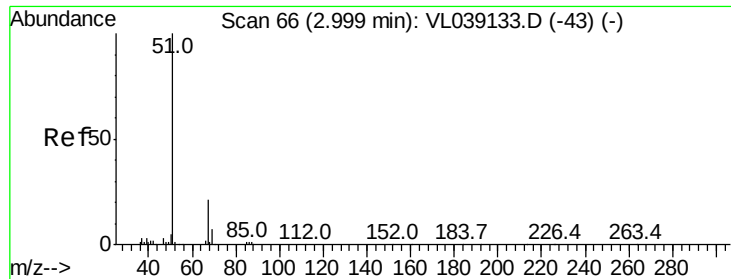
Tgt Ion: 85 Resp: 41922

Ion Ratio Lower Upper

85 100

87 31.9 26.9 40.3





#3

Chlorodifluoromethane

Concen: 0.21 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

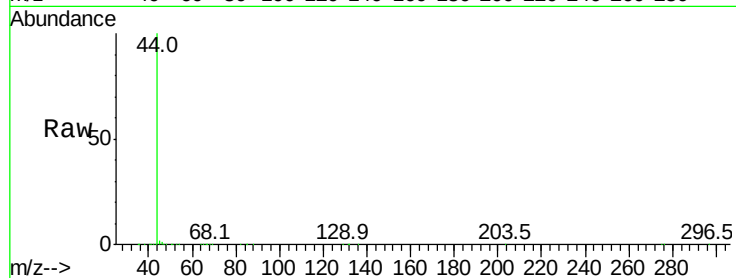
Acq: 6 Jun 2022 10:47 SG-7

Tgt Ion: 51 Resp: 32697

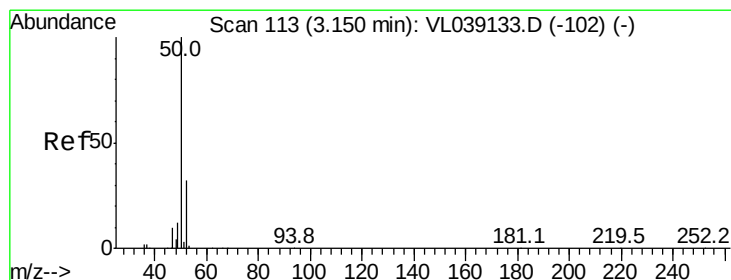
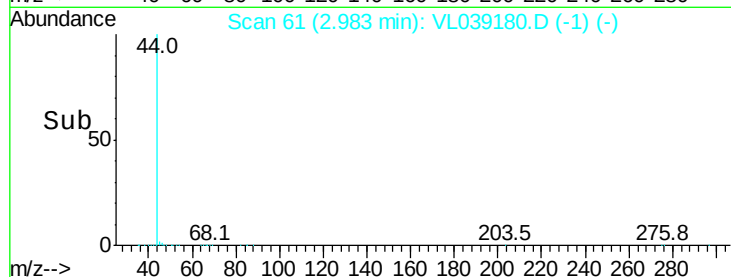
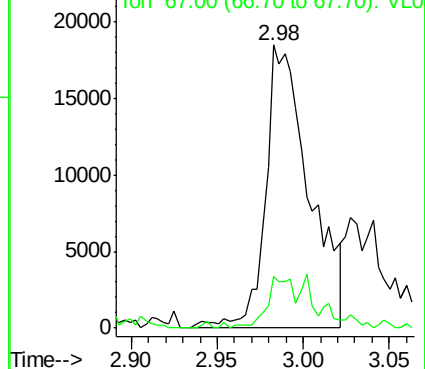
Ion Ratio Lower Upper

51 100

67 20.1 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0



#4

Chloromethane

Concen: 0.46 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039180.D

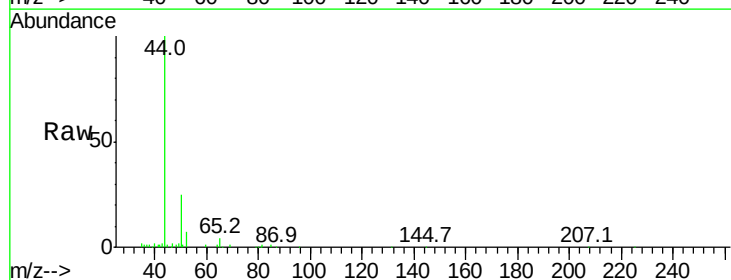
Acq: 6 Jun 2022 10:47

Tgt Ion: 50 Resp: 36442

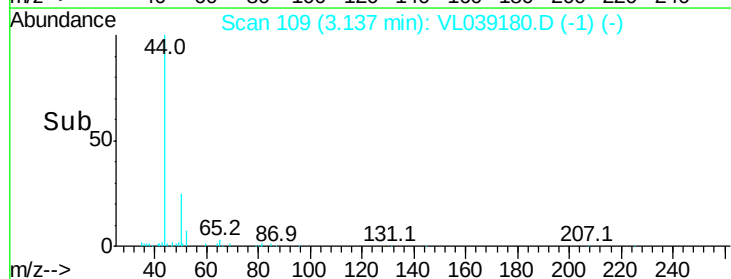
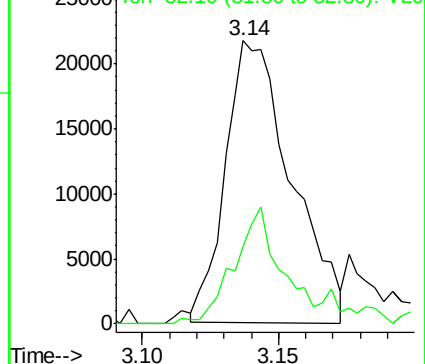
Ion Ratio Lower Upper

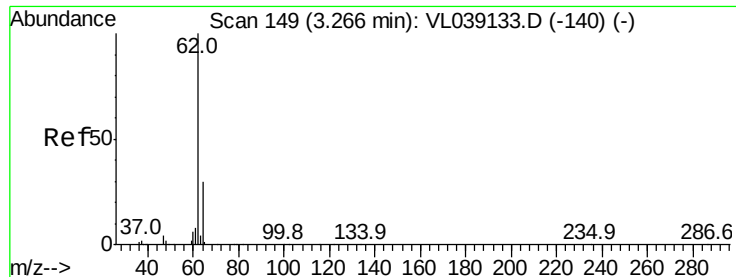
50 100

52 26.8 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0





#5

Vinyl Chloride

Concen: 0.03 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

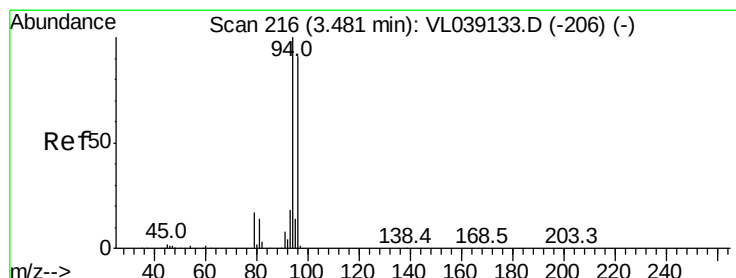
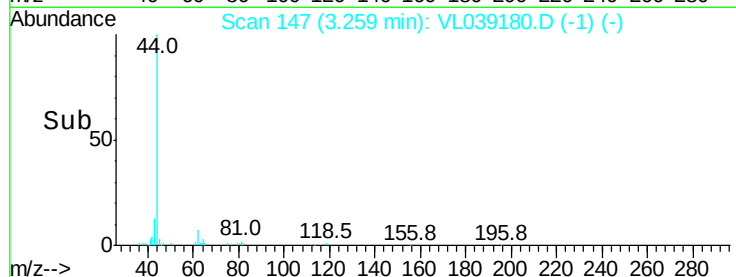
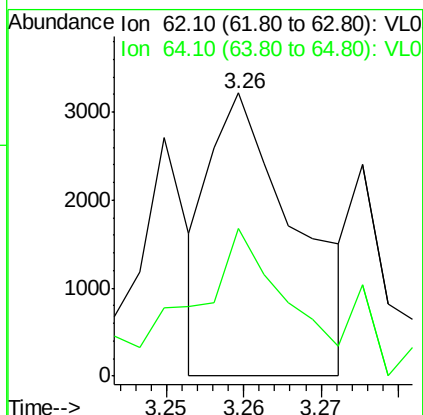
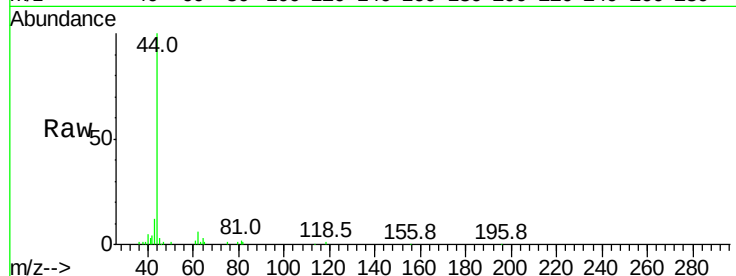
Acq: 6 Jun 2022 10:47 SG-7

Tgt Ion: 62 Resp: 2509

Ion Ratio Lower Upper

62 100

64 51.6 24.2 36.2#



#6

Bromomethane

Concen: 0.05 ppbv

RT: 3.48 min Scan# 215

Delta R.T. -0.00 min

Lab File: VL039180.D

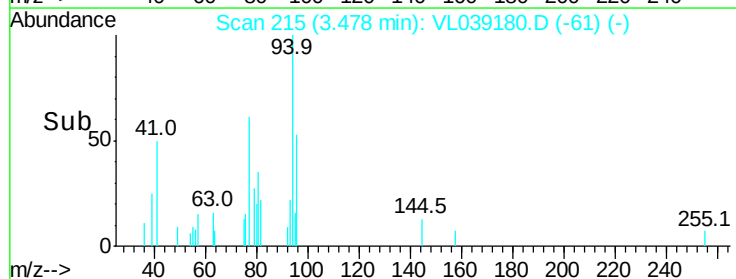
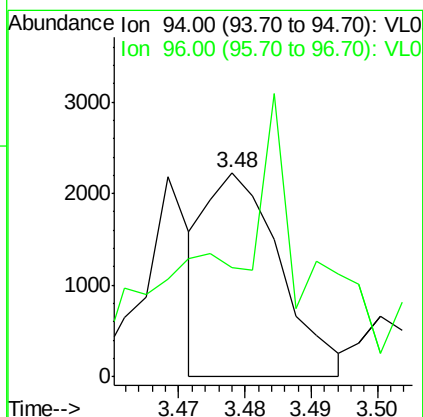
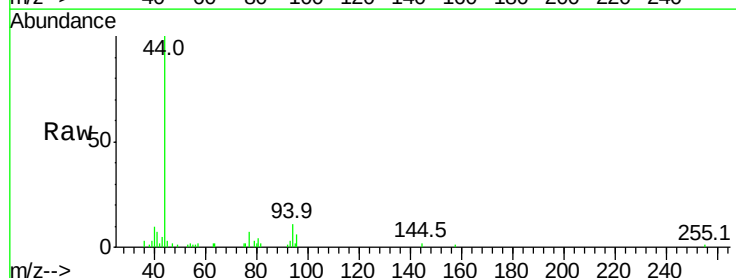
Acq: 6 Jun 2022 10:47

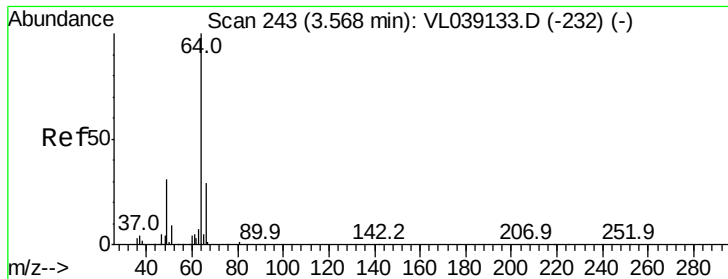
Tgt Ion: 94 Resp: 1736

Ion Ratio Lower Upper

94 100

96 3.8 73.0 109.4#





#7

Chloroethane

Concen: 0.03 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

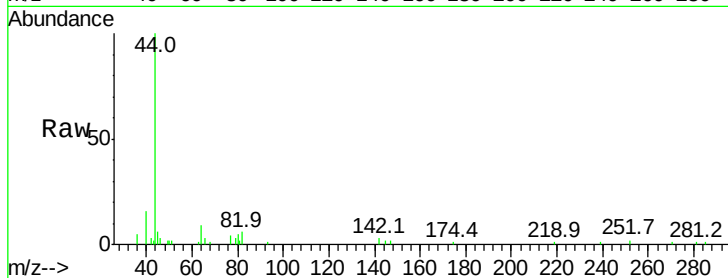
Acq: 6 Jun 2022 10:47 SG-7

Tgt Ion: 64 Resp: 864

Ion Ratio Lower Upper

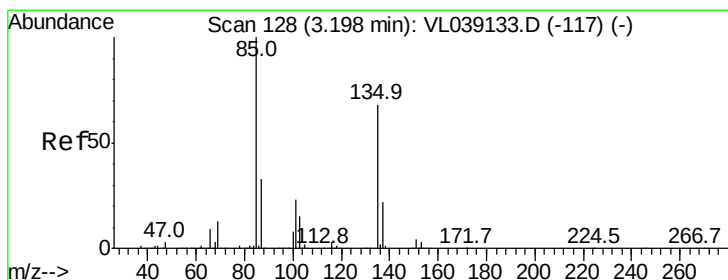
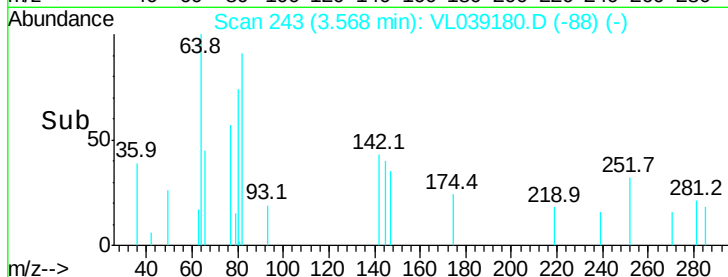
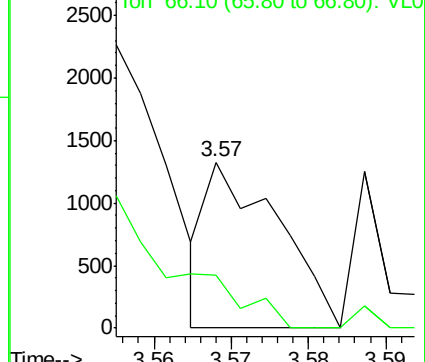
64 100

66 31.9 23.6 35.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.05 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.01 min

Lab File: VL039180.D

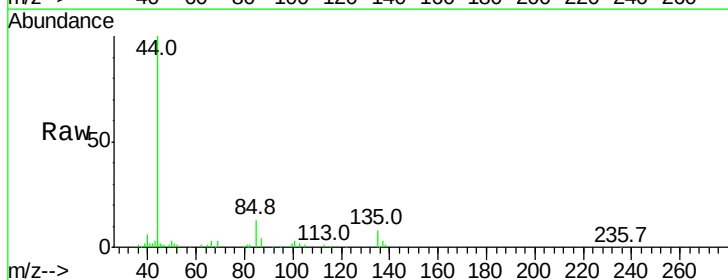
Acq: 6 Jun 2022 10:47

Tgt Ion: 85 Resp: 8919

Ion Ratio Lower Upper

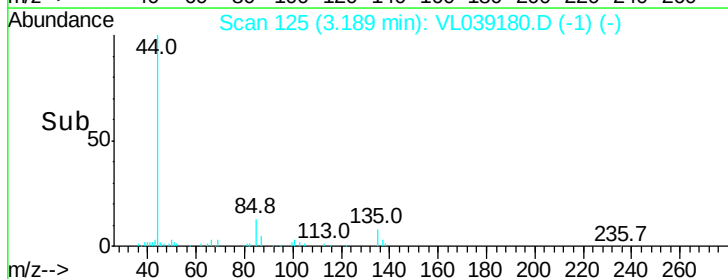
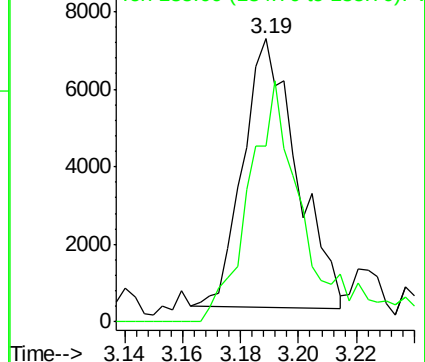
85 100

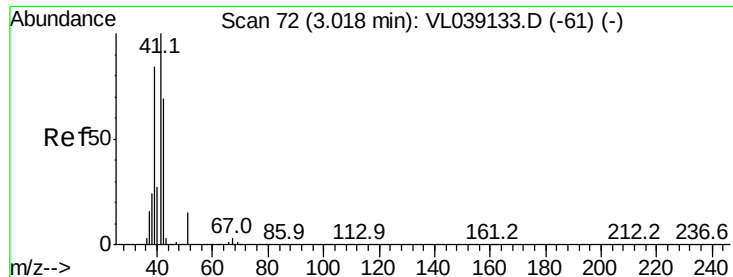
135 93.5 55.0 82.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.12 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-7

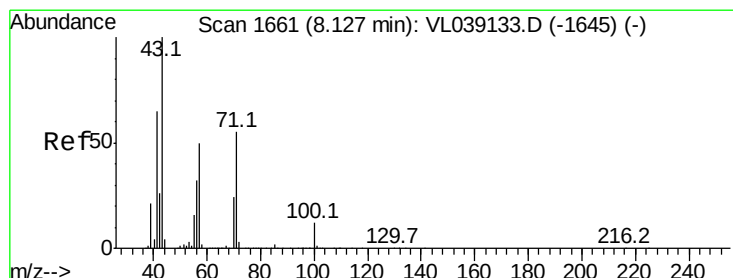
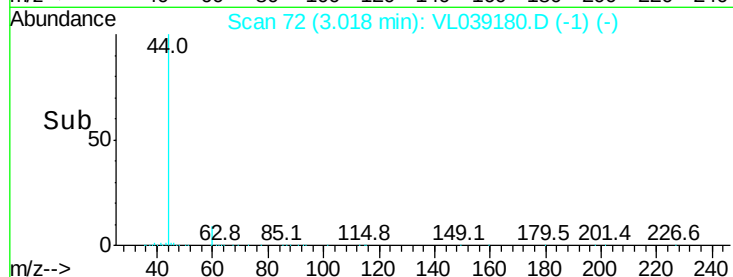
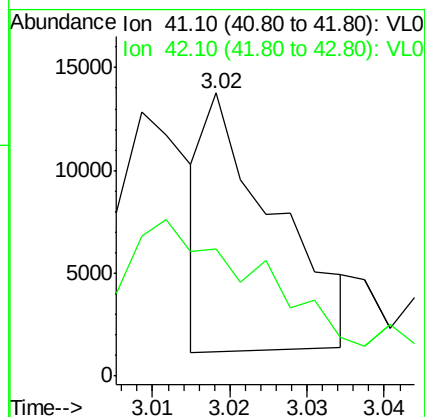
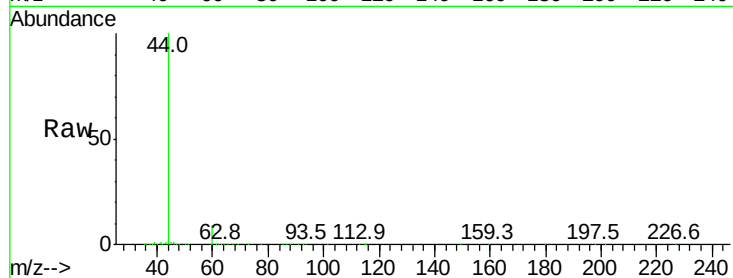
Acq: 6 Jun 2022 10:47

Tgt Ion: 41 Resp: 8015

Ion Ratio Lower Upper

41 100

42 0.0 55.4 83.2#



#10

Heptane

Concen: 1.70 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL039180.D

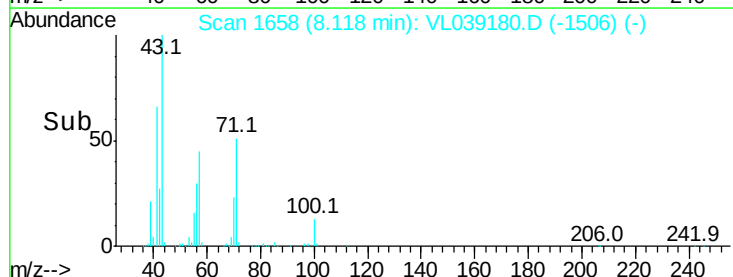
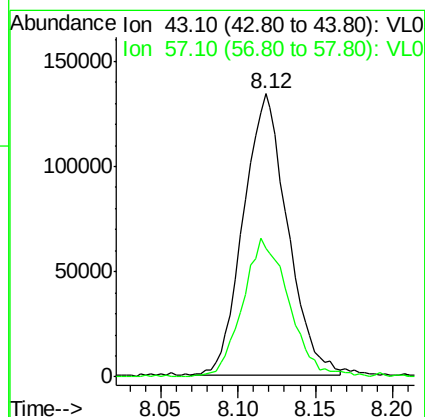
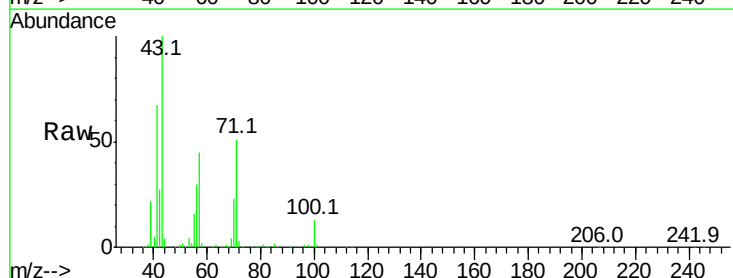
Acq: 6 Jun 2022 10:47

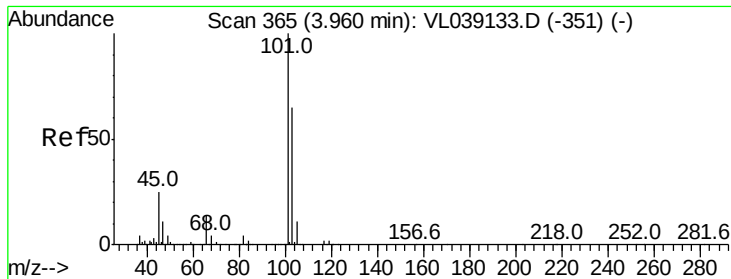
Tgt Ion: 43 Resp: 264901

Ion Ratio Lower Upper

43 100

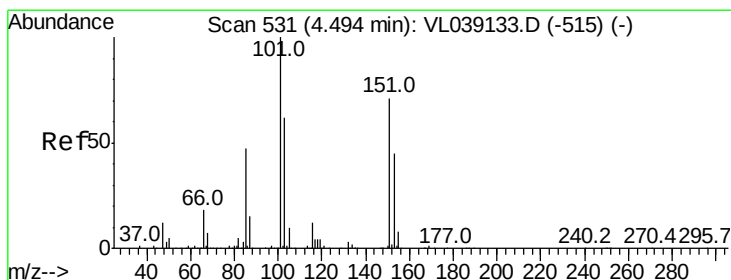
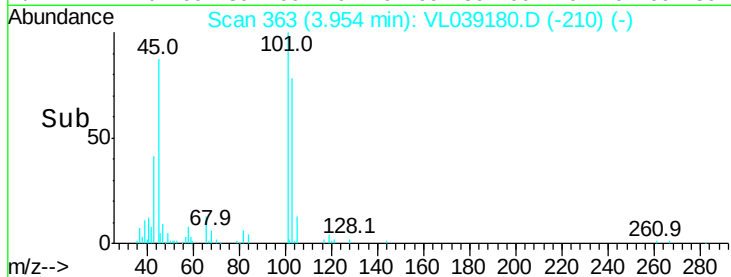
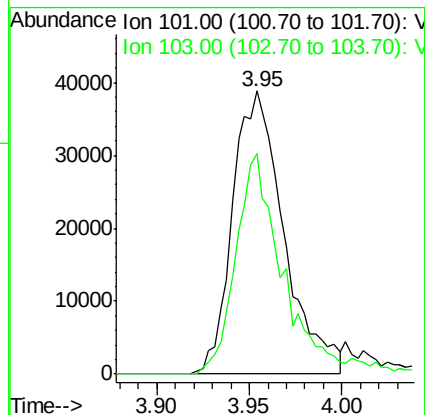
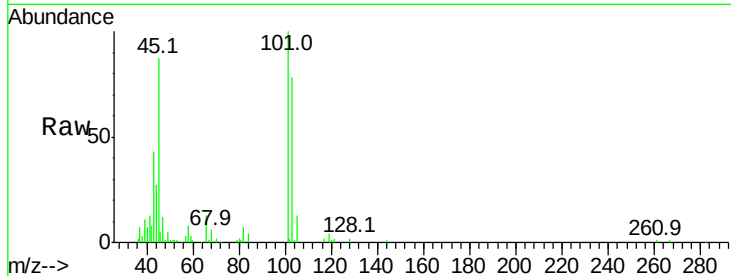
57 52.6 41.4 62.2





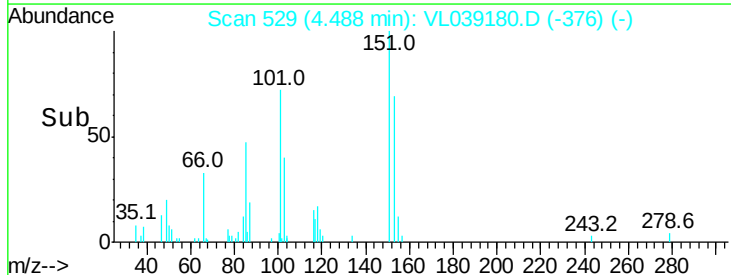
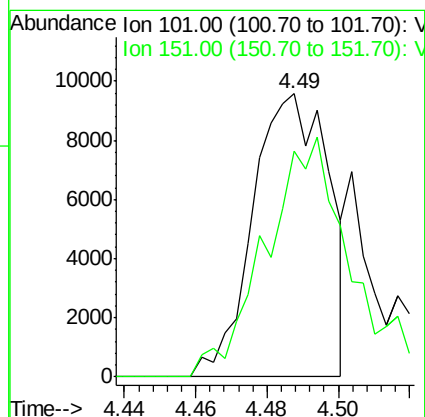
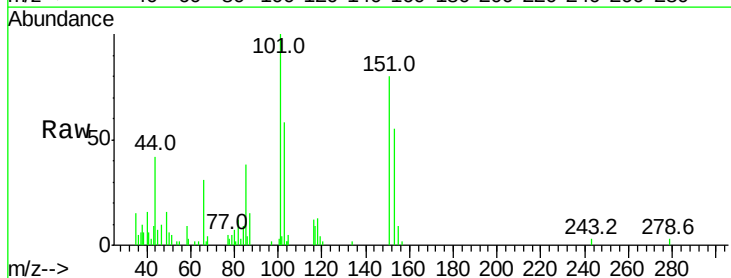
#11
 Trichlorofluoromethane
 Concen: 0.39 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Jun 2022 10:47

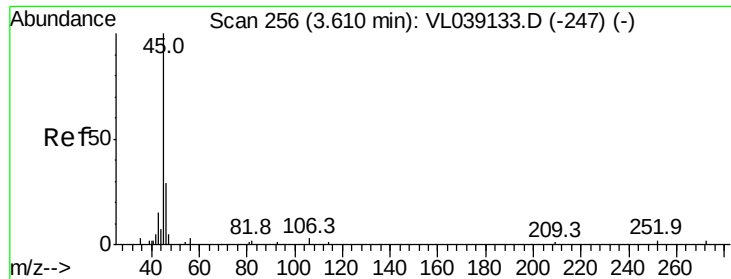
Tgt Ion:101 Resp: 74680
 Ion Ratio Lower Upper
 101 100
 103 77.8 51.7 77.5#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.11 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VL039180.D
 Acq: 6 Jun 2022 10:47

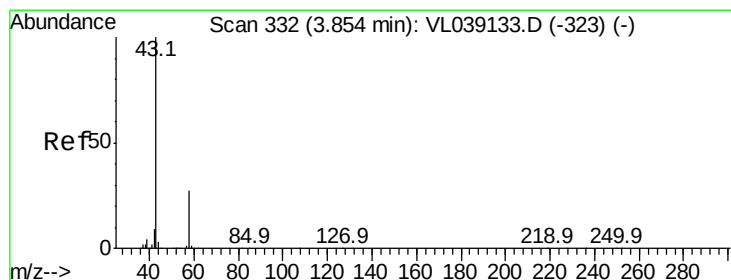
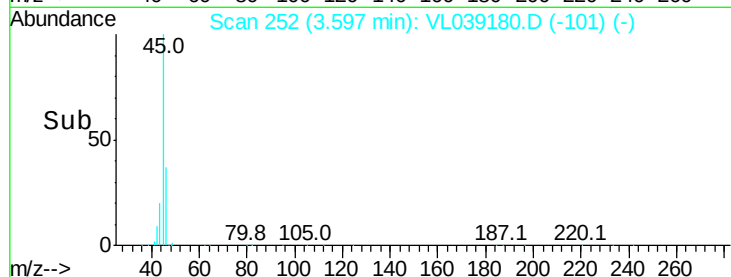
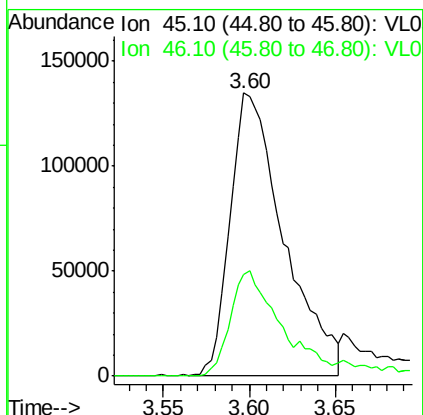
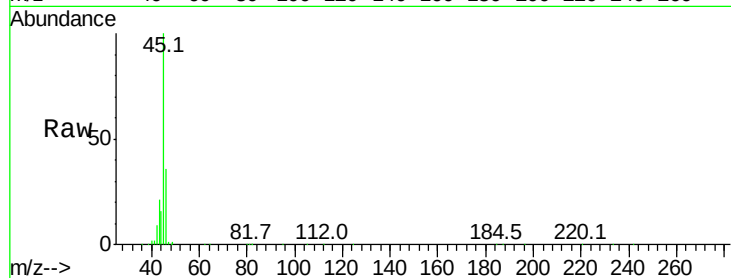
Tgt Ion:101 Resp: 14076
 Ion Ratio Lower Upper
 101 100
 151 98.9 59.4 89.0#





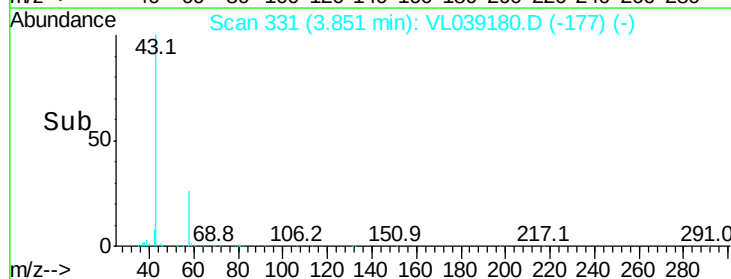
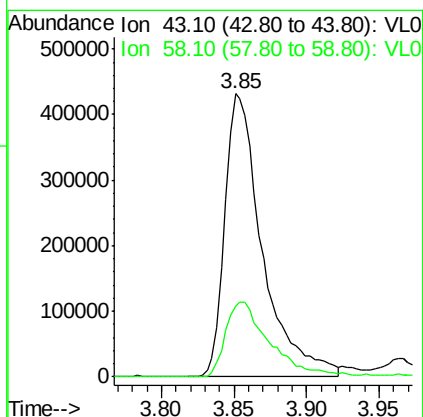
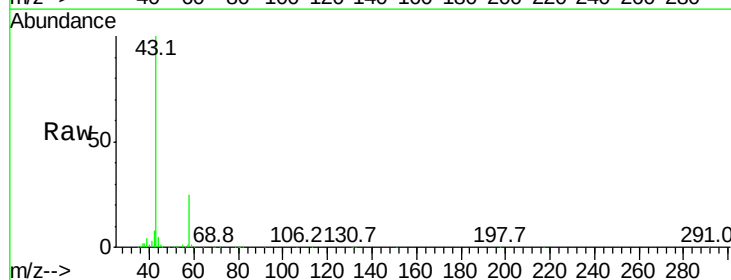
#13
Ethanol
Concen: 80.28 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 6 Jun 2022 10:47

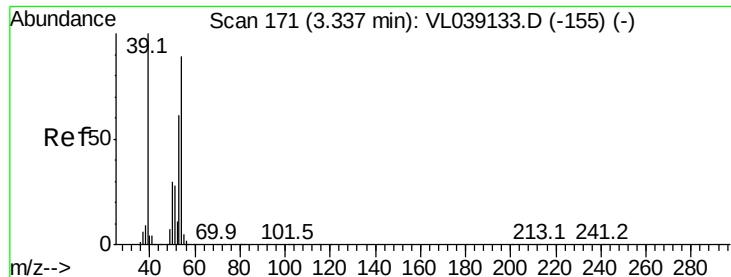
Tgt Ion: 45 Resp: 293209
Ion Ratio Lower Upper
45 100
46 41.6 0.0 0.0#



#15
Acetone
Concen: 6.15 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

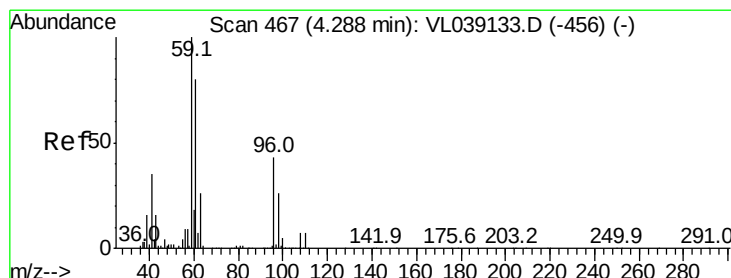
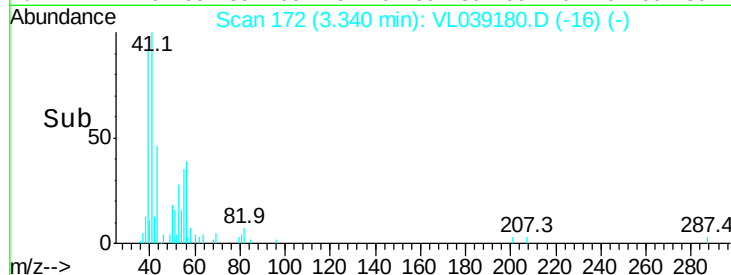
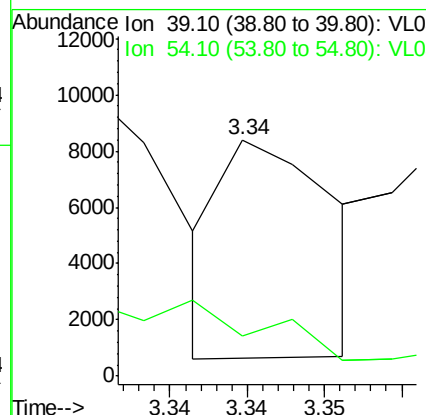
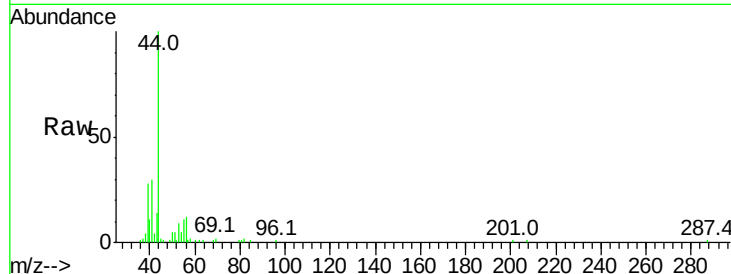
Tgt Ion: 43 Resp: 773031
Ion Ratio Lower Upper
43 100
58 33.0 22.5 33.7





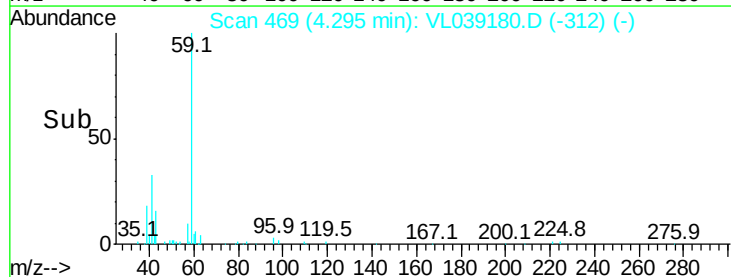
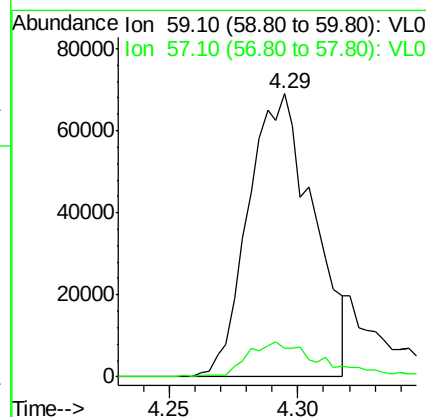
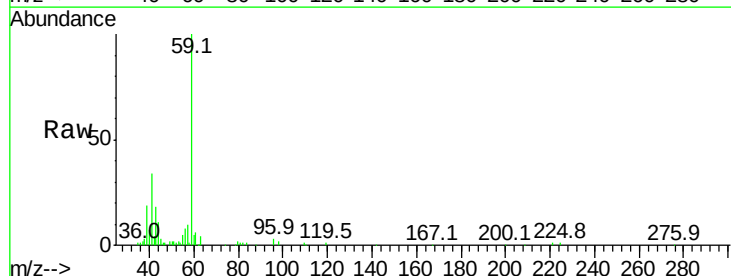
#16
 1,3-Butadiene
 Concen: 0.06 ppbv
 RT: 3.34
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Jun 2022 10:47

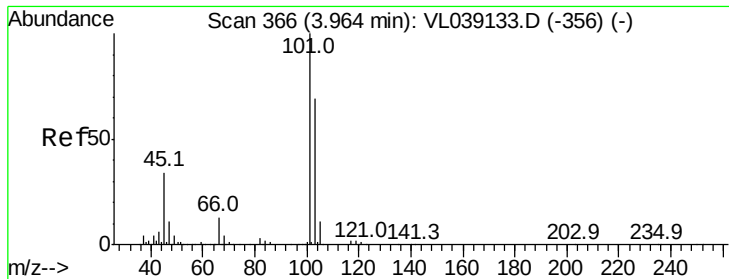
Tgt Ion: 39 Resp: 3869
 Ion Ratio Lower Upper
 39 100
 54 159.4 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 1.24 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.01 min
 Lab File: VL039180.D
 Acq: 6 Jun 2022 10:47

Tgt Ion: 59 Resp: 121166
 Ion Ratio Lower Upper
 59 100
 57 15.0 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 2.50 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

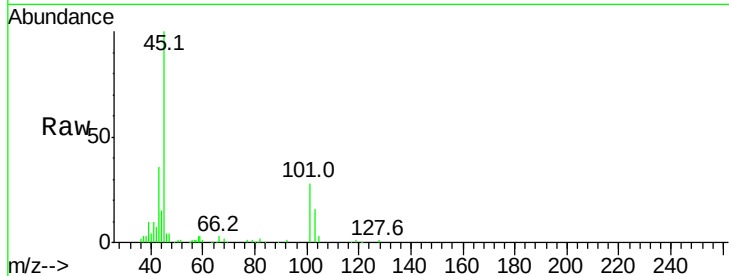
Acq: 6 Jun 2022 10:47 SG-7

Tgt Ion: 45 Resp: 147647

Ion Ratio Lower Upper

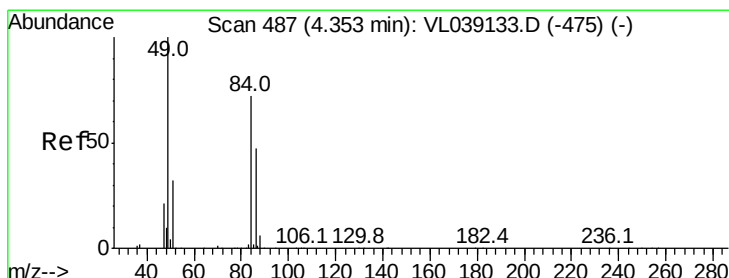
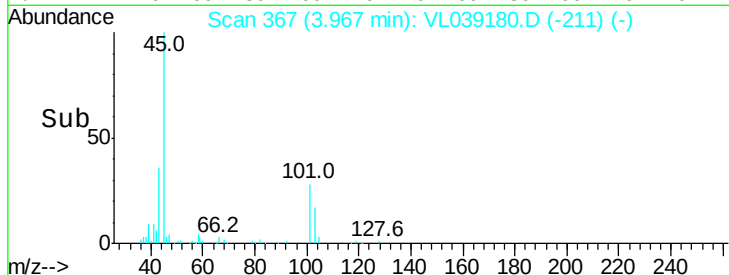
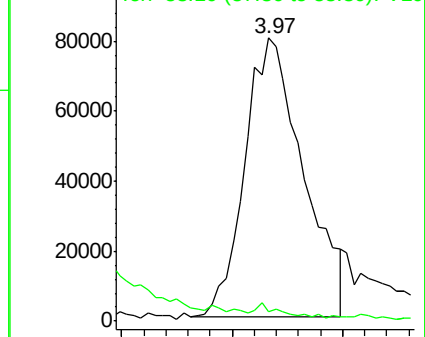
45 100

58 172.6 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.75 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.00 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

Tgt Ion: 84 Resp: 92787

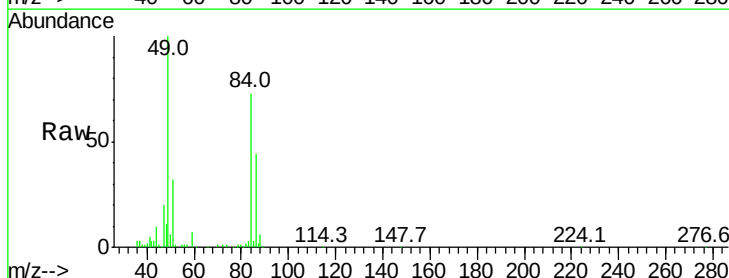
Ion Ratio Lower Upper

84 100

49 137.8 111.1 166.7

51 42.7 35.3 52.9

86 60.2 51.9 77.9

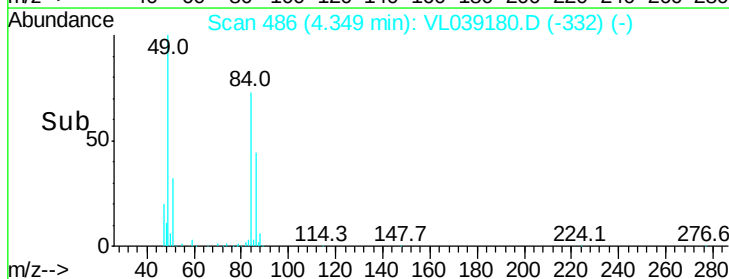
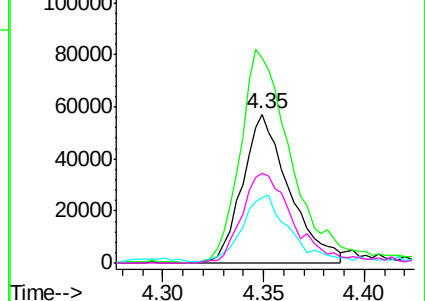


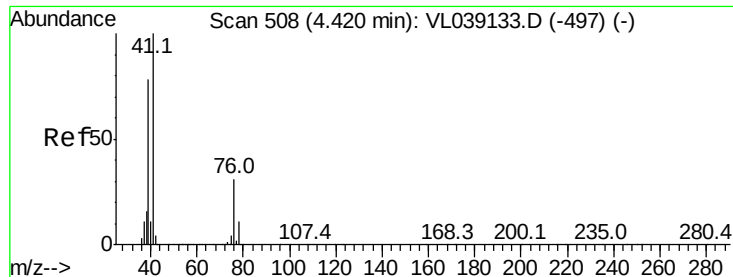
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

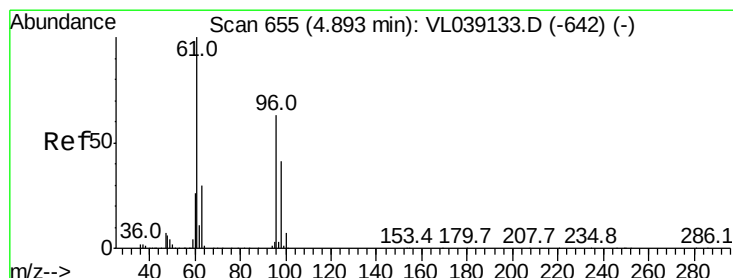
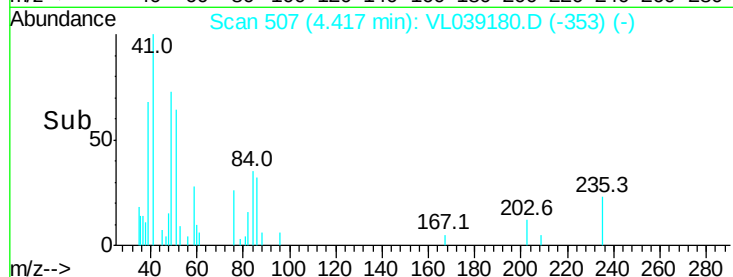
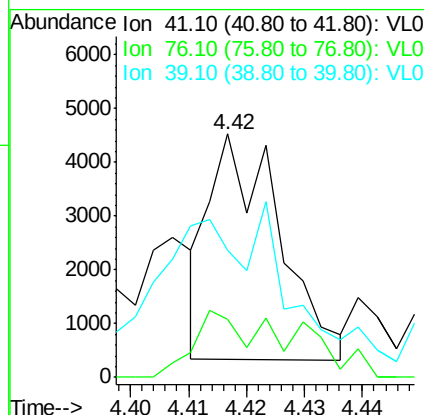
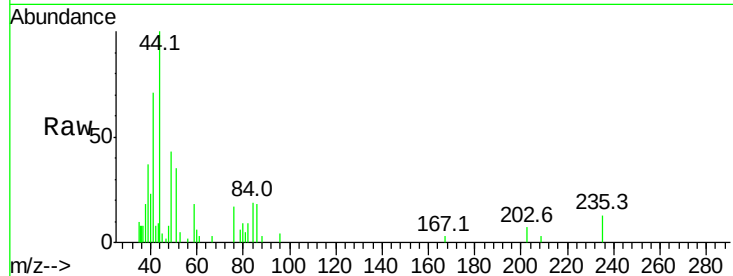
Ion 86.00 (85.70 to 86.70): VL0





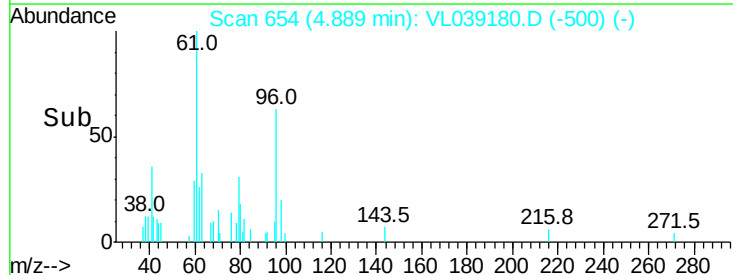
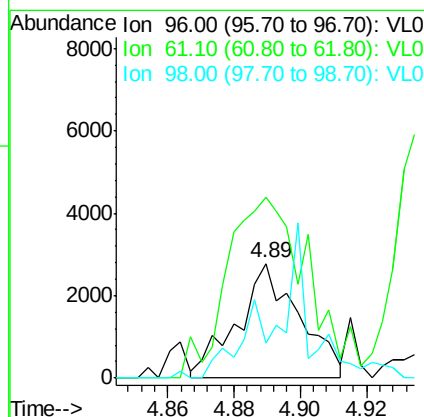
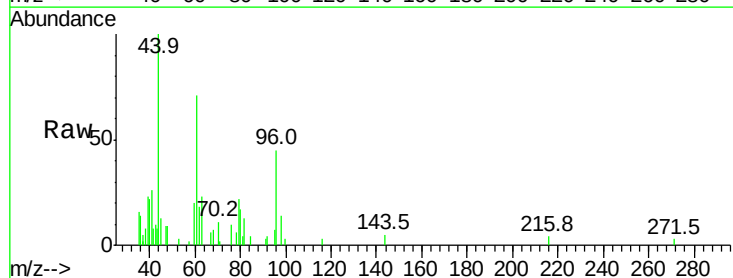
#21
 Allyl Chloride
 Concen: 0.04 ppbv
 RT: 4.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Jun 2022 10:47

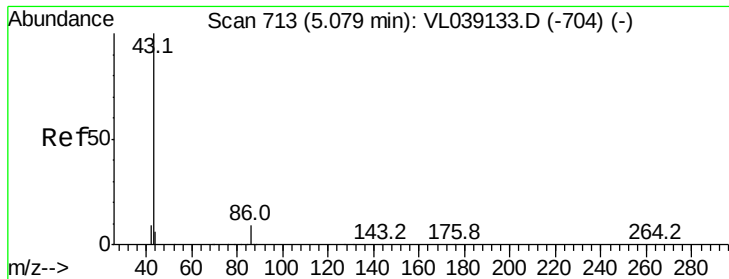
Tgt Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.2#
39	123.6	62.2	93.2#



#22
 trans-1,2-Dichloroethene
 Concen: 0.07 ppbv
 RT: 4.89 min Scan# 654
 Delta R.T. -0.00 min
 Lab File: VL039180.D
 Acq: 6 Jun 2022 10:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.9	126.6	190.0
98	33.2	52.5	78.7#





#23

Vinyl Acetate

Concen: 0.95 ppbv

RT: 5.06 Instrument: MSVOA_1

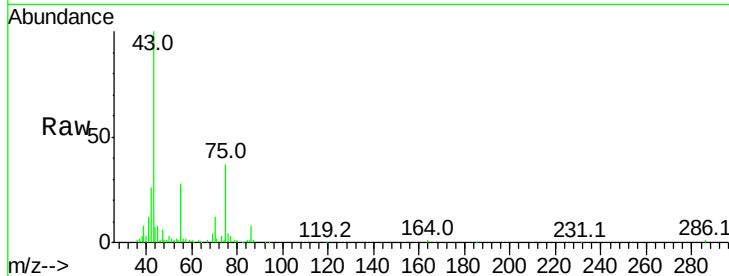
Delta R.T. ClientSampleId:

Lab File: SG-7

Acq: 6 Jun 2022 10:47

Tgt Ion: 43 Resp: 98386

Ion	Ratio	Lower	Upper
43	100		
86	8.5	6.0	9.0
42	24.6	8.2	12.4#
44	2.3	4.3	6.5#

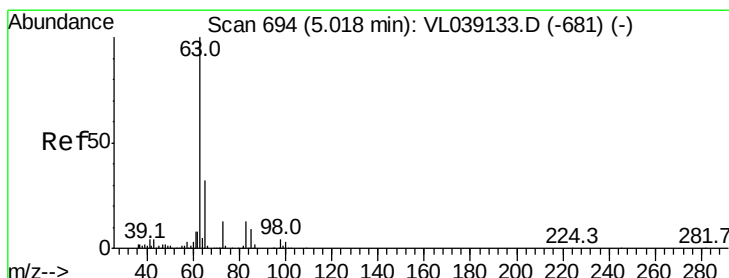
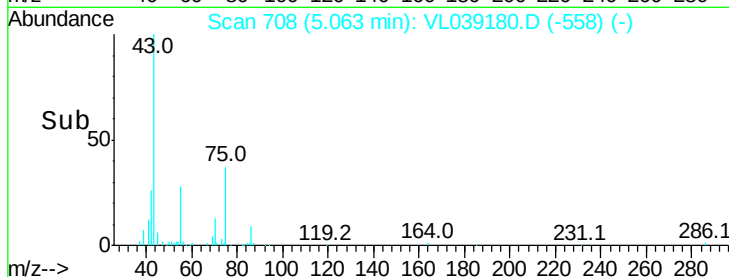
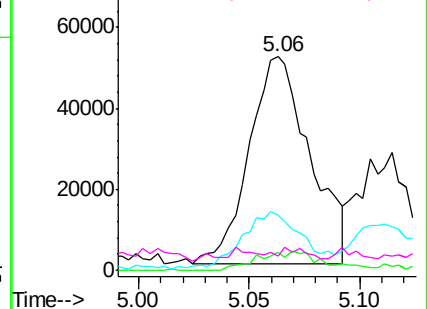


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.06 ppbv

RT: 5.01 min Scan# 693

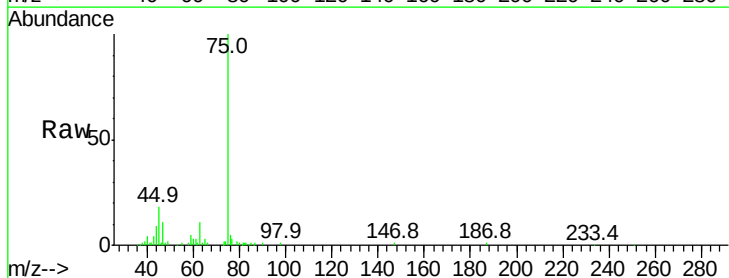
Delta R.T. -0.00 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

Tgt Ion: 63 Resp: 8772

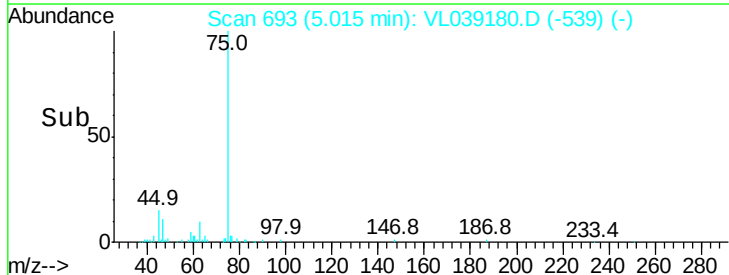
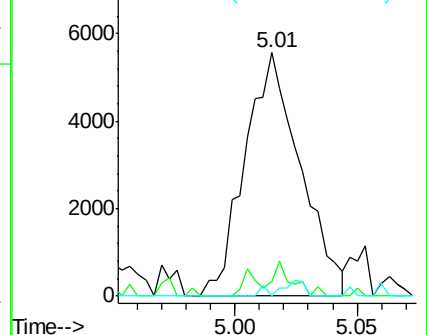
Ion	Ratio	Lower	Upper
63	100		
98	6.1	2.1	6.2
100	0.0	1.5	4.5#

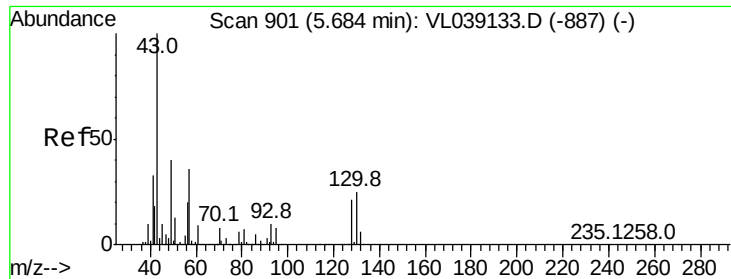


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

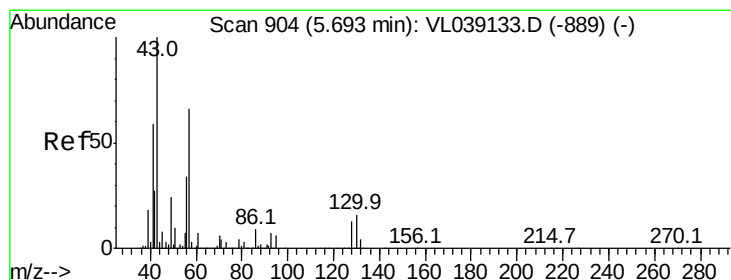
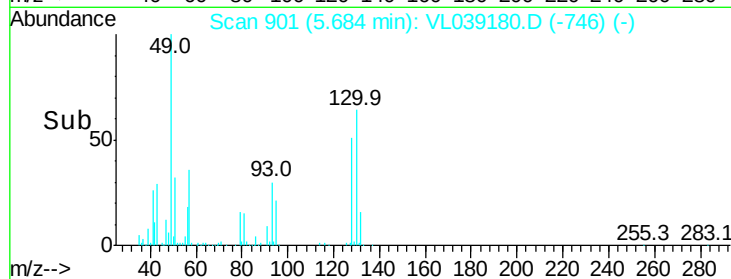
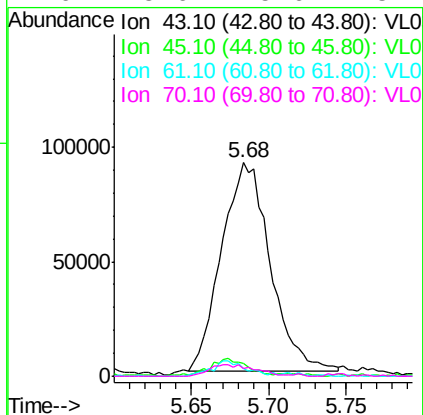
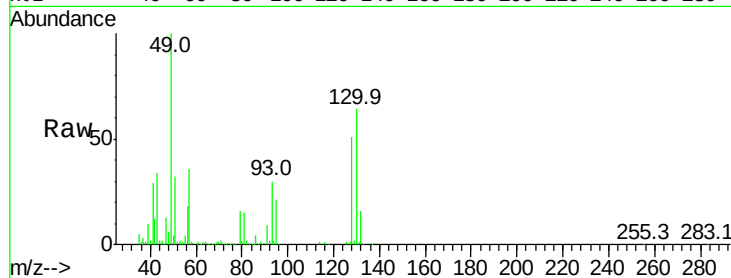
Ion 100.00 (99.70 to 100.70): VL0





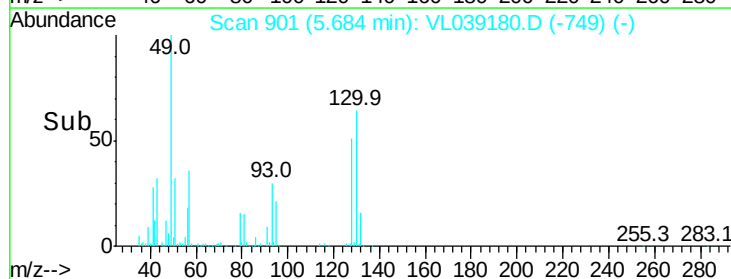
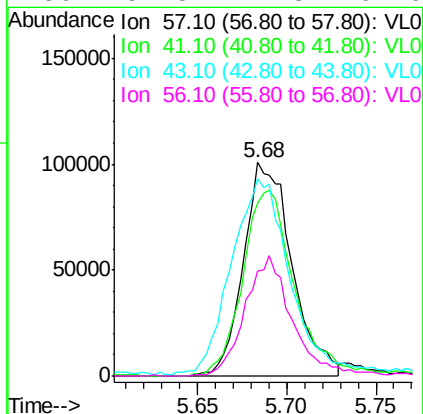
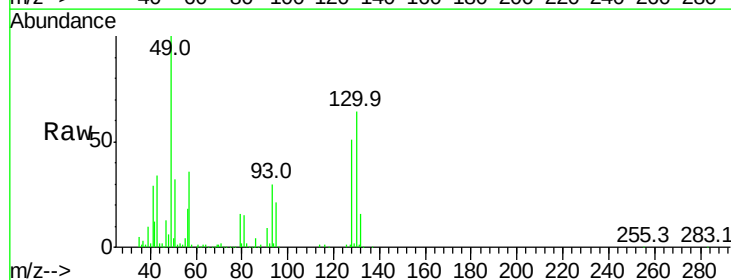
#25
Ethyl Acetate
Concen: 0.70 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 6 Jun 2022 10:47

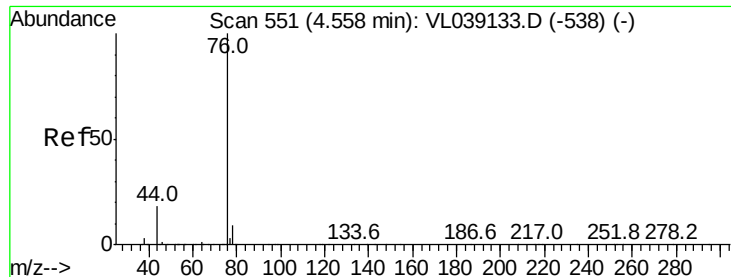
Tgt Ion:	43	Resp:	199454
Ion	Ratio	Lower	Upper
43	100		
45	7.7	8.2	12.2#
61	6.2	8.4	12.6#
70	5.6	5.6	8.4#



#26
Hexane
Concen: 1.53 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

Tgt Ion:	57	Resp:	191068
Ion	Ratio	Lower	Upper
57	100		
41	95.6	72.4	108.6
43	114.1	187.0	280.6#
56	54.8	41.8	62.6





#27

Carbon Disulfide

Concen: 4.21 ppbv

RT: 4.55 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 6 Jun 2022 10:47

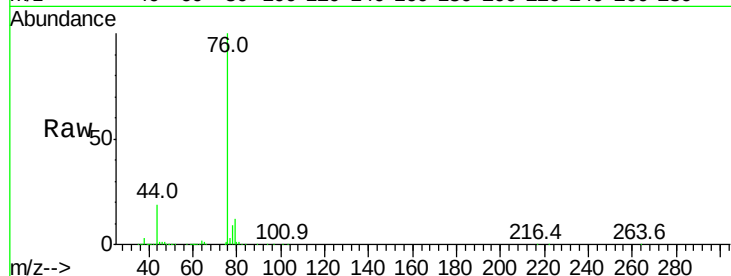
Tgt Ion: 76 Resp: 543657

Ion Ratio Lower Upper

76 100

44 18.7 14.4 21.6

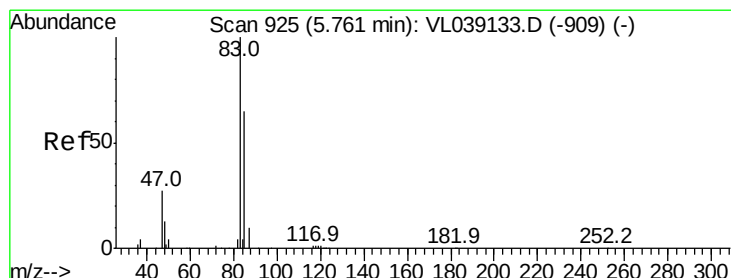
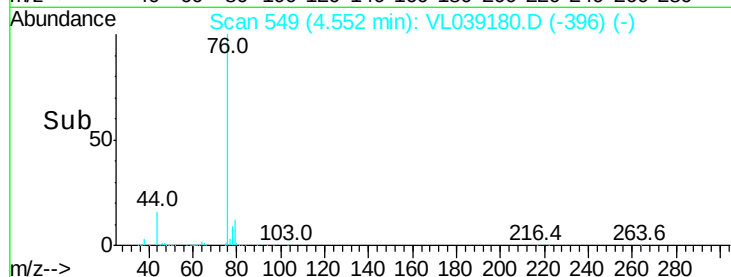
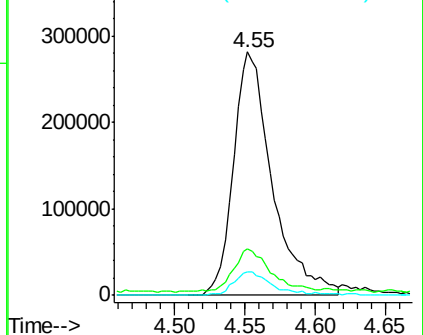
78 10.5 7.7 11.5



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



#29

Chloroform

Concen: 0.04 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.02 min

Lab File: VL039180.D

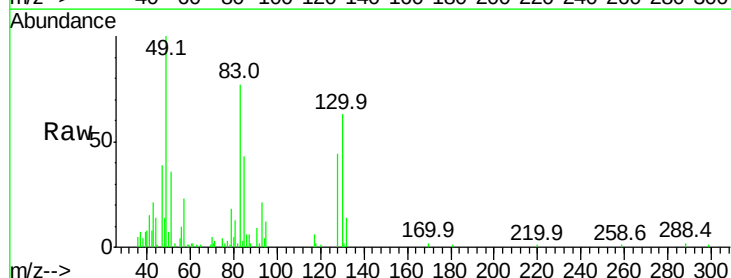
Acq: 6 Jun 2022 10:47

Tgt Ion: 83 Resp: 9361

Ion Ratio Lower Upper

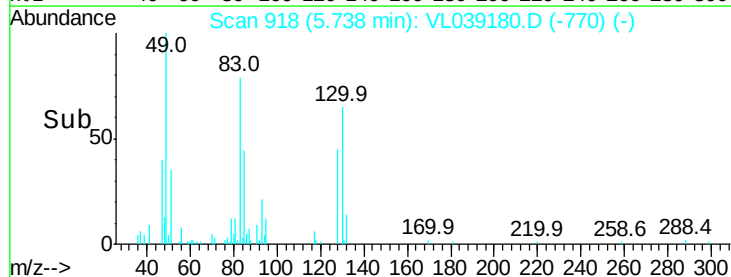
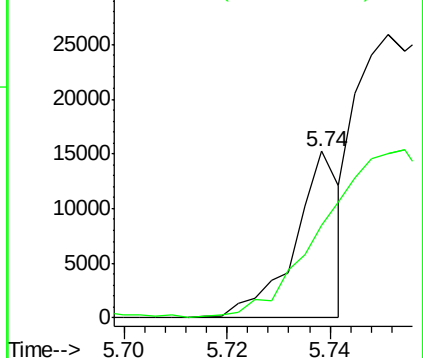
83 100

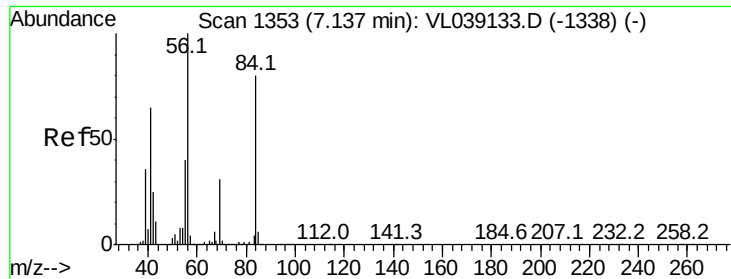
85 55.5 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

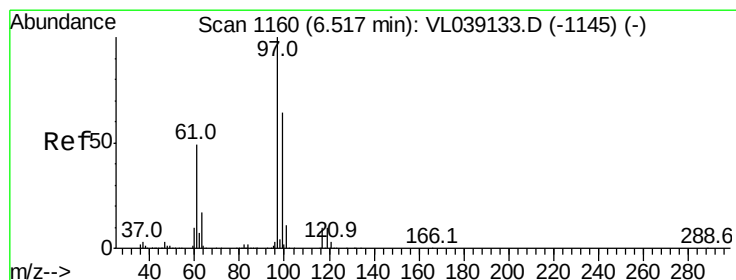
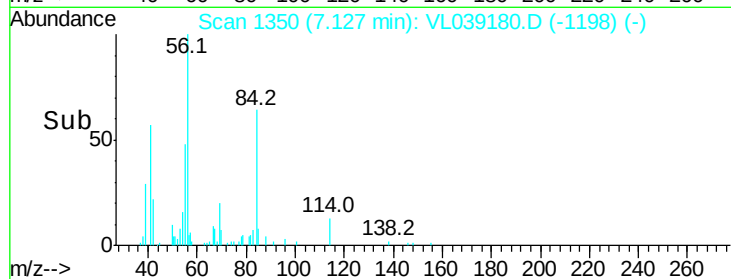
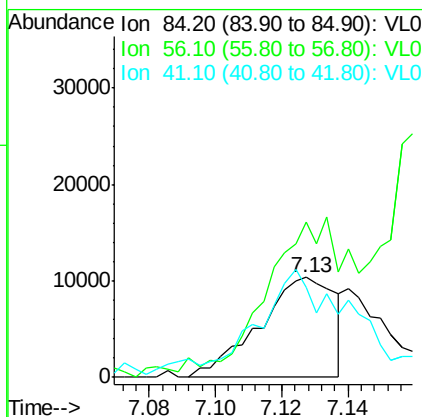
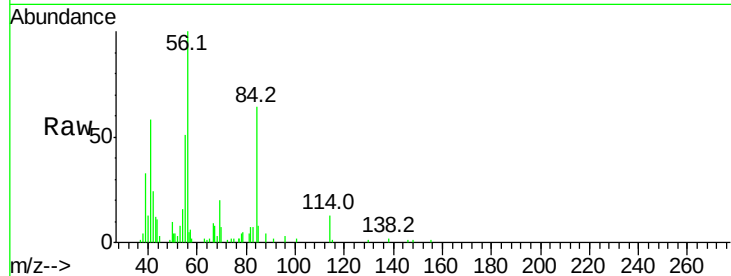
Ion 85.00 (84.70 to 85.70): VL0





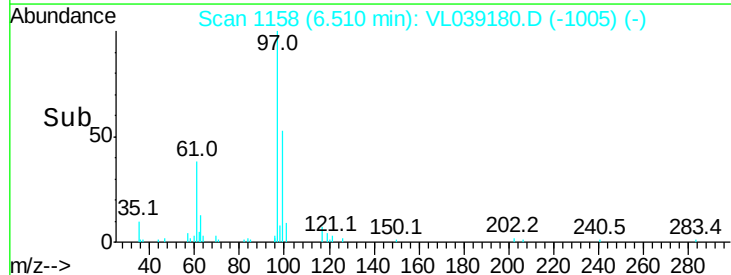
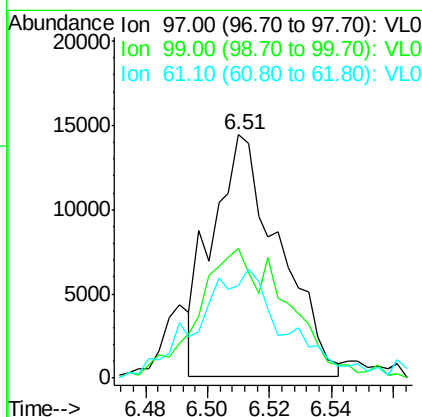
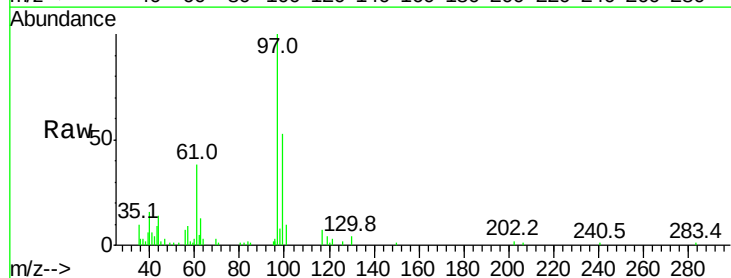
#30
Cyclohexane
Concen: 0.16 ppbv
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 6 Jun 2022 10:47

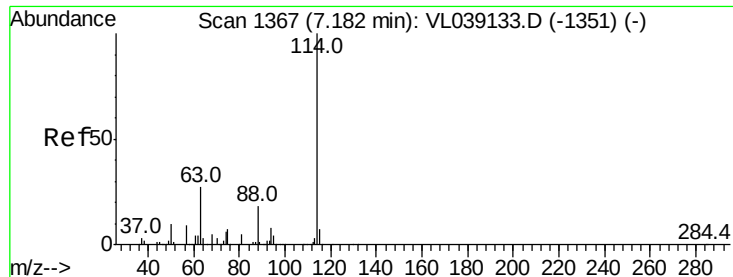
Tgt Ion: 84 Resp: 16437
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 145.9 68.9 103.3#



#32
1,1,1-Trichloroethane
Concen: 0.11 ppbv
RT: 6.51 min Scan# 1158
Delta R.T. -0.01 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

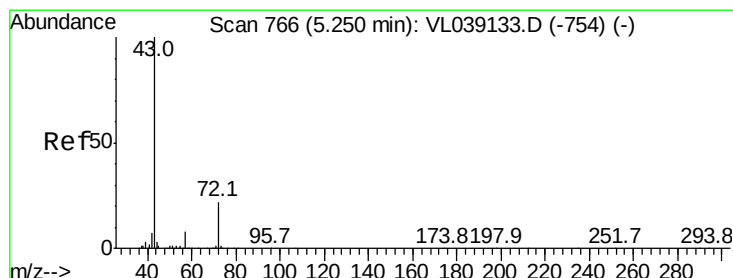
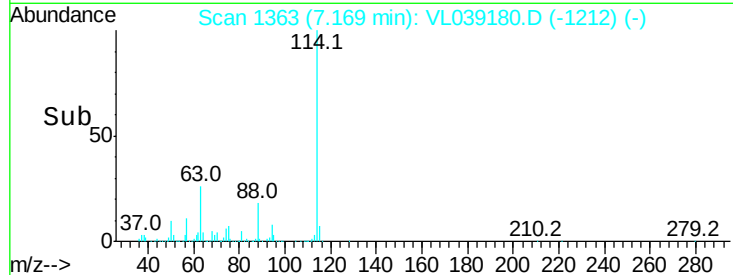
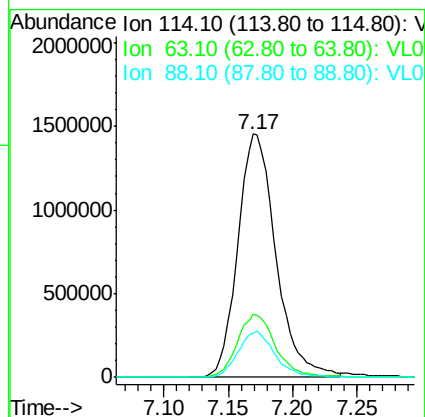
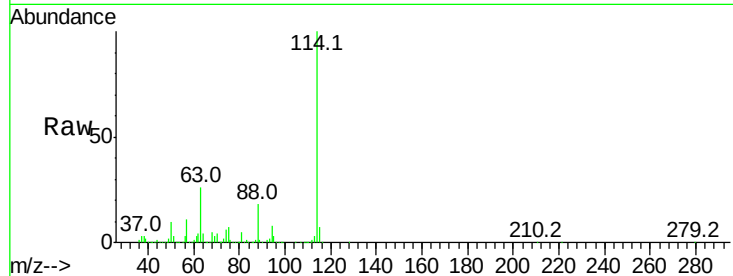
Tgt Ion: 97 Resp: 21621
Ion Ratio Lower Upper
97 100
99 72.1 52.1 78.1
61 61.3 40.0 60.0#





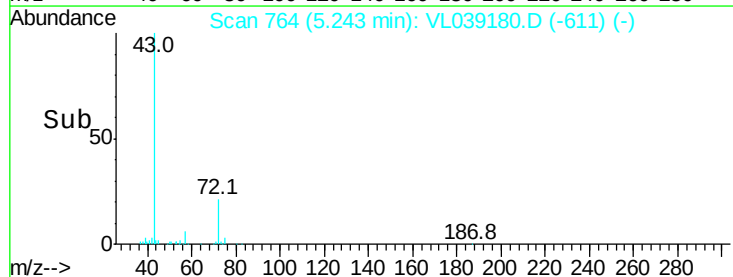
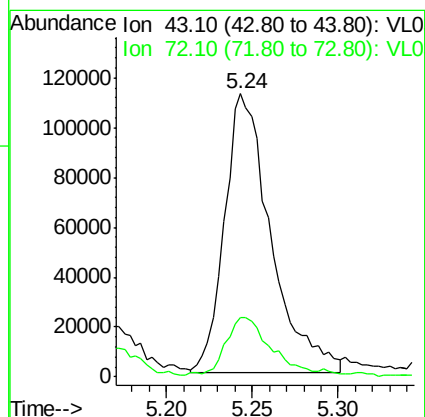
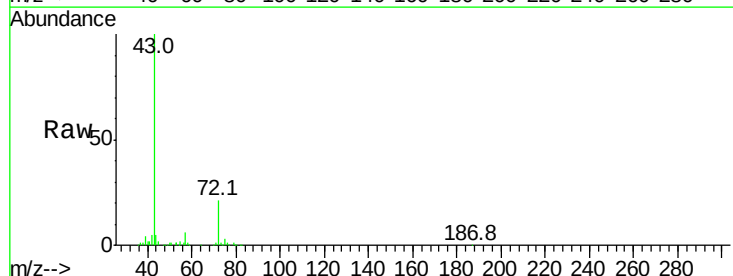
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Jun 2022 10:47

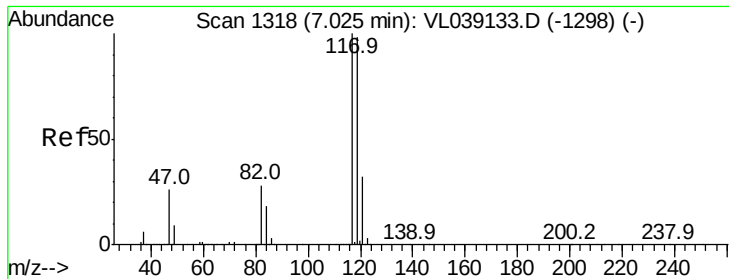
Tgt Ion: 114 Resp: 2989958
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.7 32.5
 88 18.7 14.8 22.2



#34
 2-Butanone
 Concen: 1.30 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL039180.D
 Acq: 6 Jun 2022 10:47

Tgt Ion: 43 Resp: 210700
 Ion Ratio Lower Upper
 43 100
 72 23.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 7.02 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SG-7

Acq: 6 Jun 2022 10:47

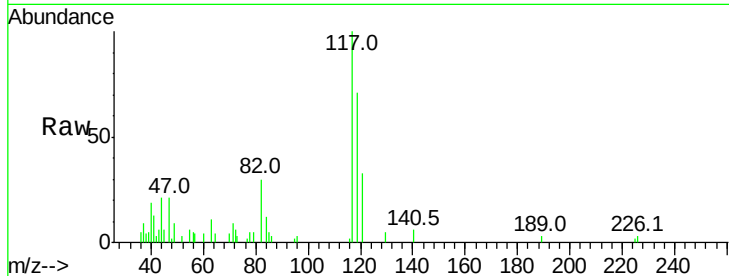
Tgt Ion: 117 Resp: 9189

Ion Ratio Lower Upper

117 100

119 70.6 78.6 118.0#

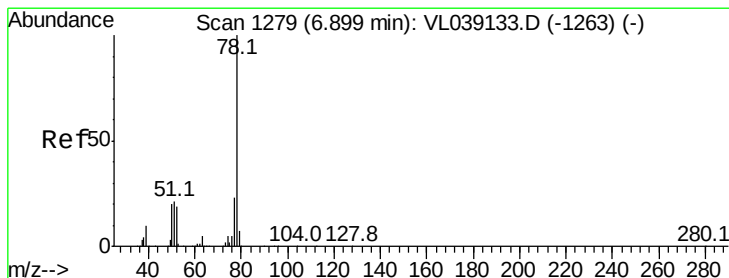
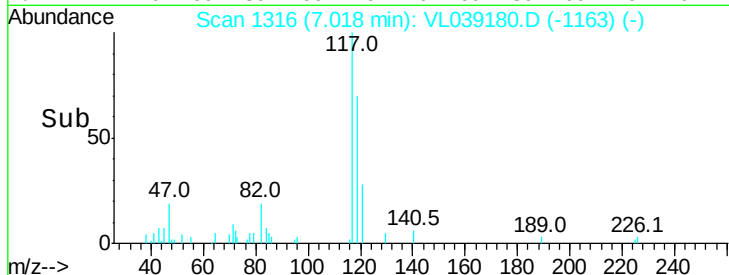
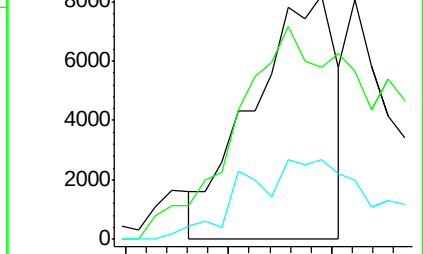
121 33.8 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.31 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

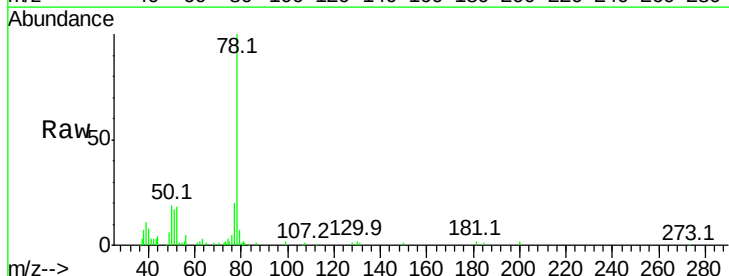
Tgt Ion: 78 Resp: 74593

Ion Ratio Lower Upper

78 100

77 18.8 18.6 27.8

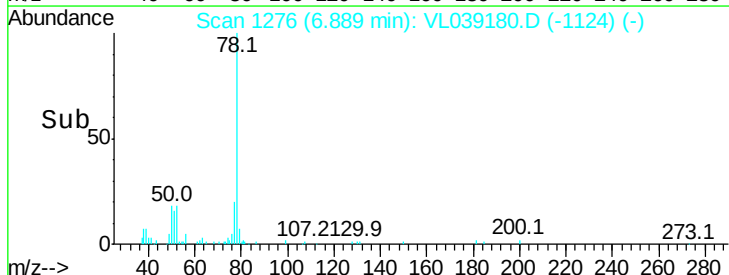
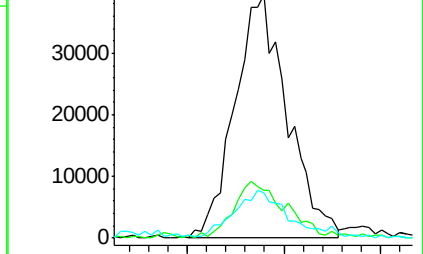
50 17.7 15.8 23.8

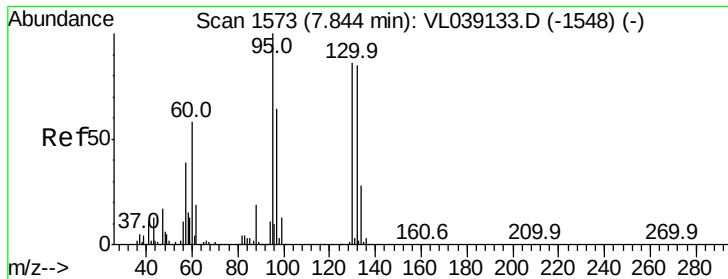


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.05 ppbv

RT: 7.83 Instrument: MSVOA_1

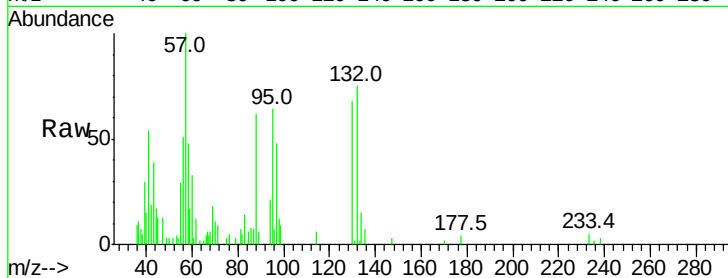
Delta R.T.

Lab File: ClientSampleId:

Acq: 6 Jun 2022 10:47

Tgt Ion: 130 Resp: 6092

Ion	Ratio	Lower	Upper
130	100		
95	89.8	93.3	139.9#
132	121.3	79.0	118.4#
97	66.2	59.4	89.2

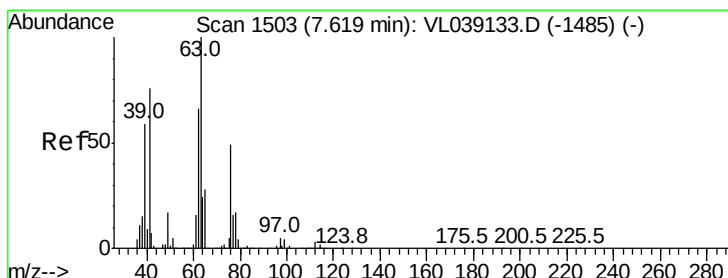
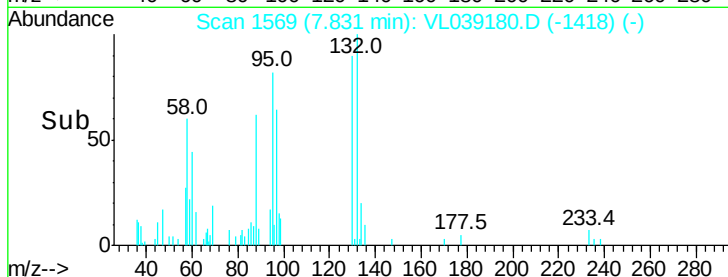
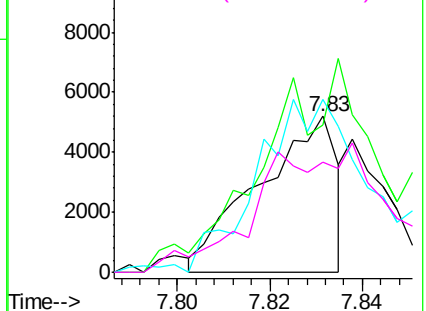


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.94 ppbv

RT: 7.17 min Scan# 1363

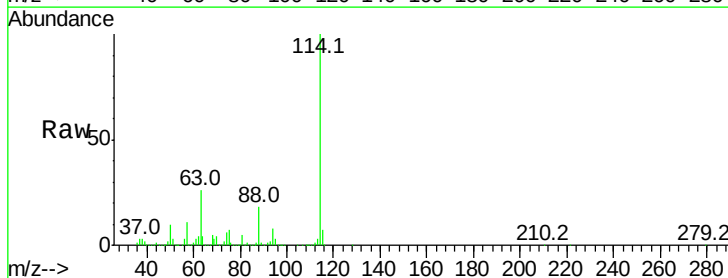
Delta R.T. -0.45 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

Tgt Ion: 63 Resp: 766513

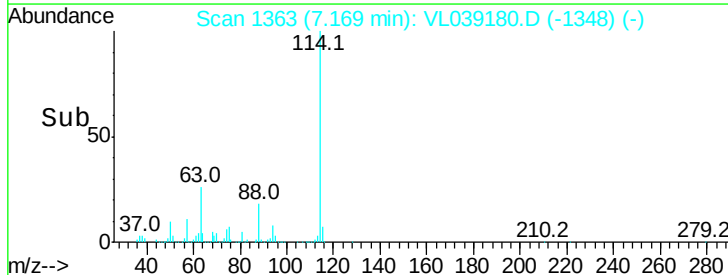
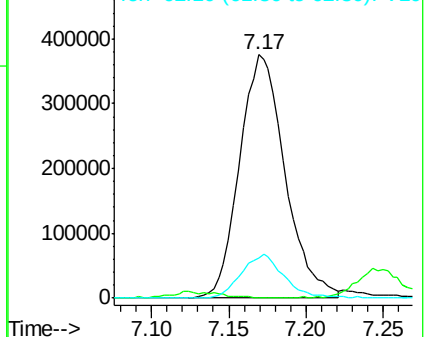
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	16.6	52.9	79.3#

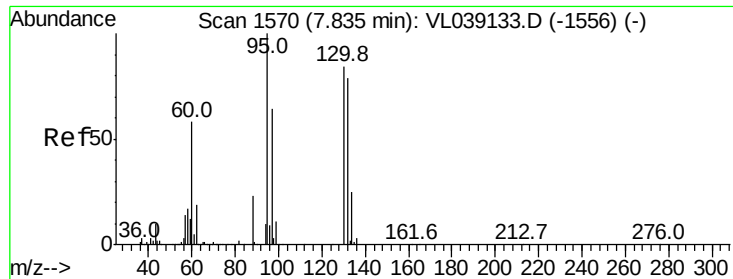


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

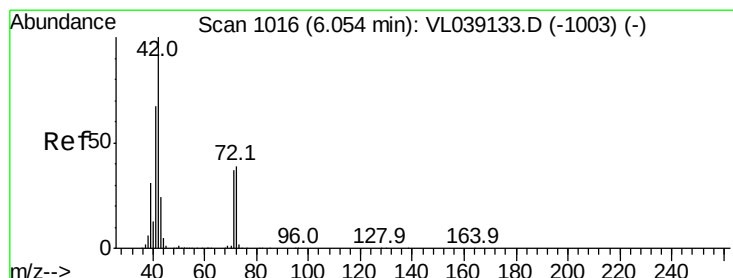
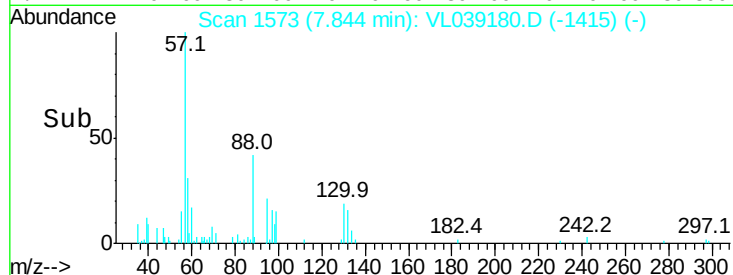
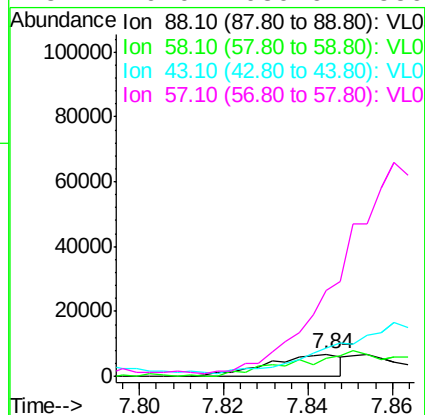
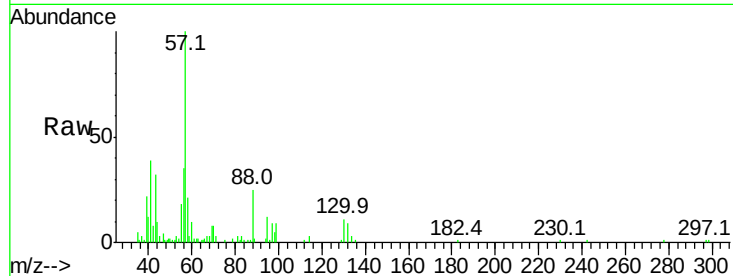
Ion 62.10 (61.80 to 62.80): VL0





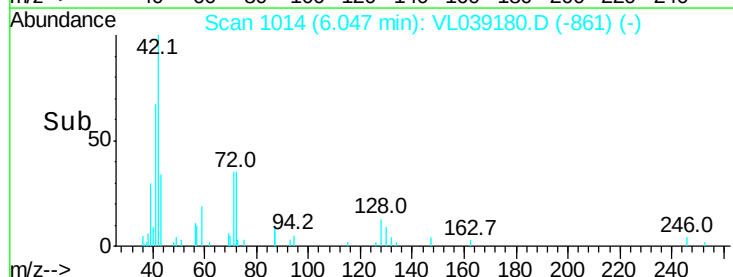
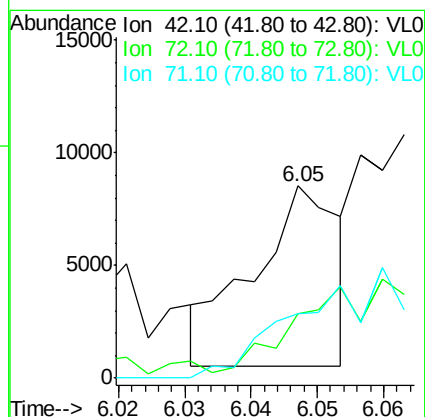
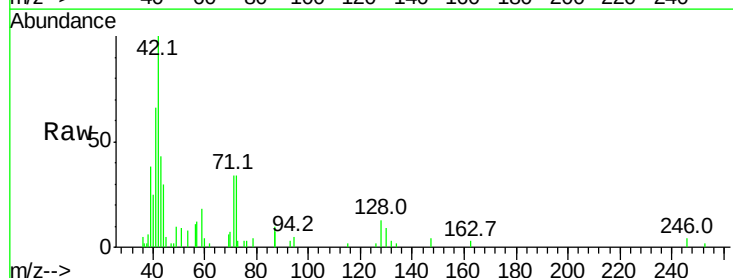
#40
 1,4-Dioxane
 Concen: 0.26 ppbv
 RT: 7.84
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId : SG-7
 Acq: 6 Jun 2022 10:47

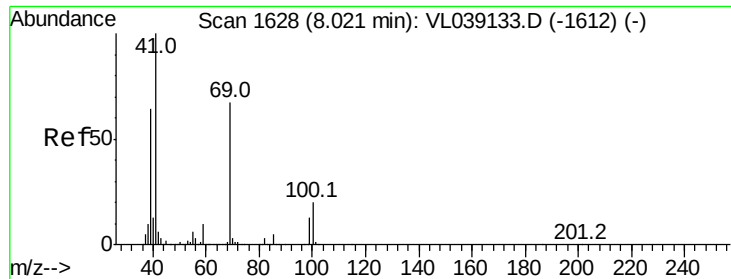
Tgt Ion: 88 Resp: 8169
 Ion Ratio Lower Upper
 88 100
 58 0.0 111.2 166.8#
 43 0.0 234.2 351.4#
 57 0.0 1039.9 1559.9#



#41
 Tetrahydrofuran
 Concen: 0.07 ppbv
 RT: 6.05 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: VL039180.D
 Acq: 6 Jun 2022 10:47

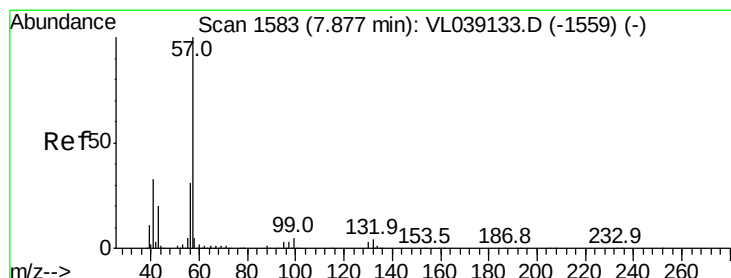
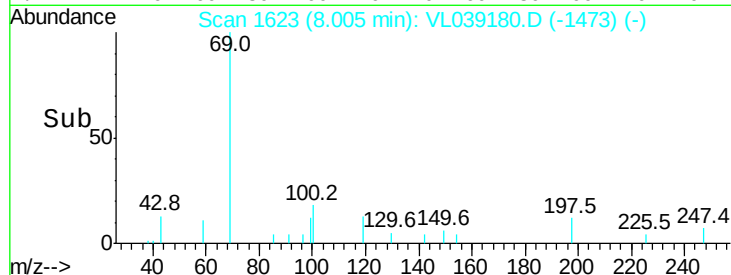
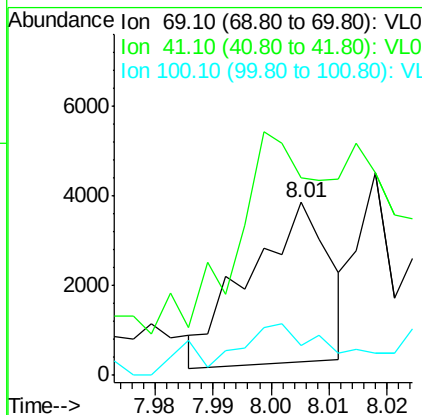
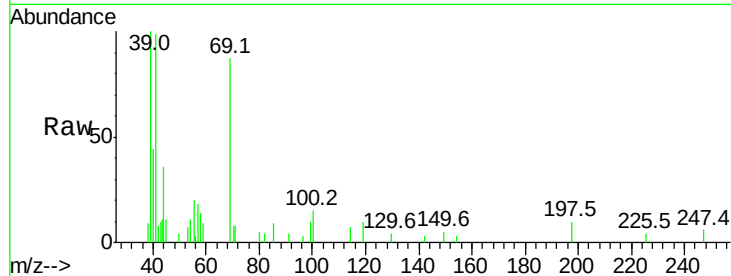
Tgt Ion: 42 Resp: 7152
 Ion Ratio Lower Upper
 42 100
 72 0.0 32.0 48.0#
 71 0.0 31.1 46.7#





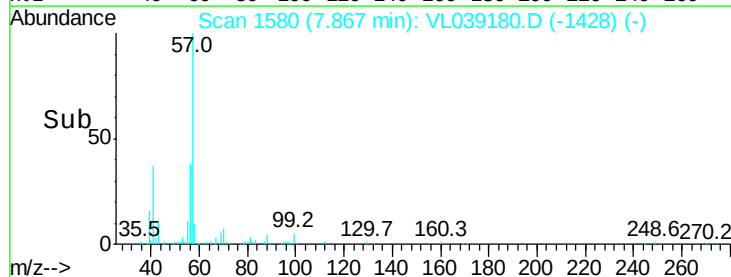
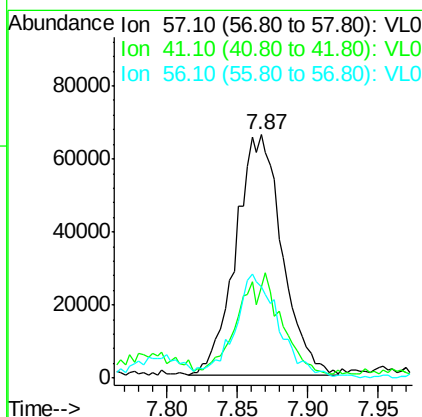
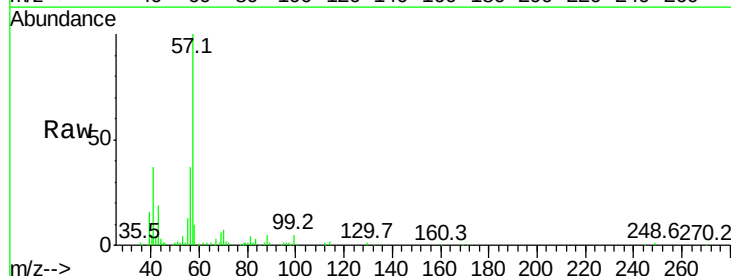
#43
Methyl Methacrylate
Concen: 0.04 ppbv
RT: 8.01
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SG-7
Acq: 6 Jun 2022 10:47

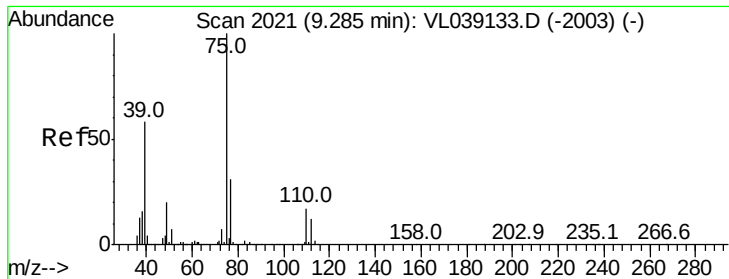
Tgt Ion: 69 Resp: 3431
Ion Ratio Lower Upper
69 100
41 413.8 121.9 182.9#
100 74.1 24.1 36.1#



#44
2,2,4-Trimethylpentane
Concen: 0.36 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

Tgt Ion: 57 Resp: 152175
Ion Ratio Lower Upper
57 100
41 39.0 26.2 39.4
56 40.8 24.7 37.1#





#45

t-1,3-Dichloropropene

Concen: 0.03 ppbv

RT: 9.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

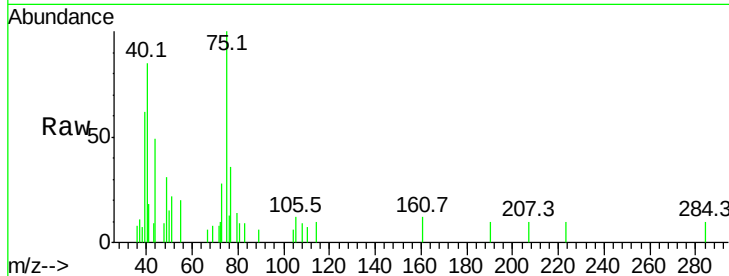
Acq: 6 Jun 2022 10:47 SG-7

Tgt Ion: 75 Resp: 3172

Ion Ratio Lower Upper

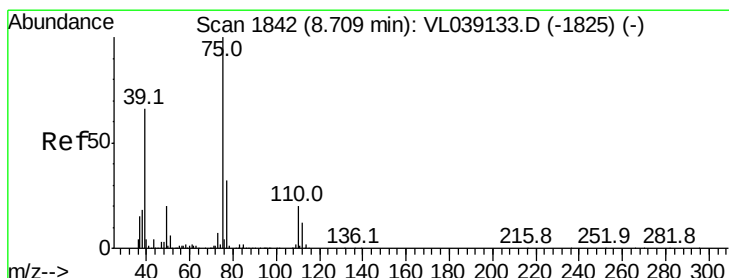
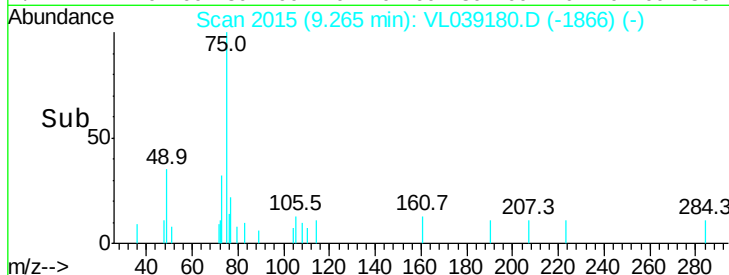
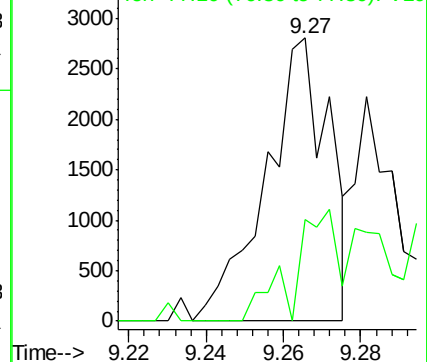
75 100

77 35.9 24.4 36.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.03 ppbv

RT: 8.69 min Scan# 1836

Delta R.T. -0.02 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

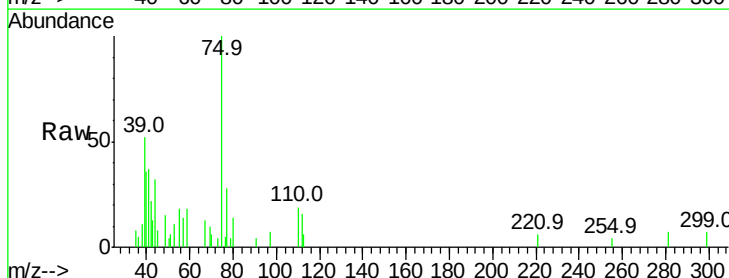
Tgt Ion: 75 Resp: 4204

Ion Ratio Lower Upper

75 100

39 33.5 52.4 78.6#

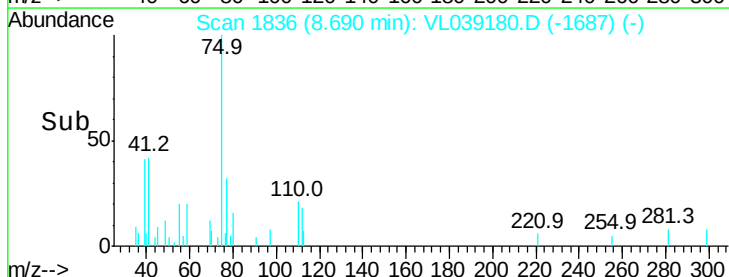
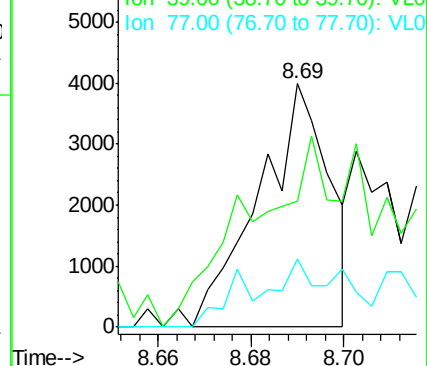
77 28.0 25.5 38.3

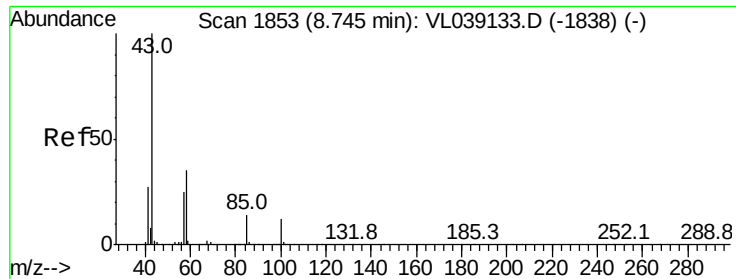


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#50

4-Methyl-2-Pentanone

Concen: 0.12 ppbv

RT: 8.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

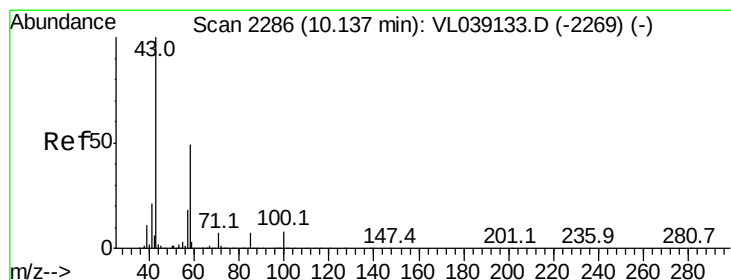
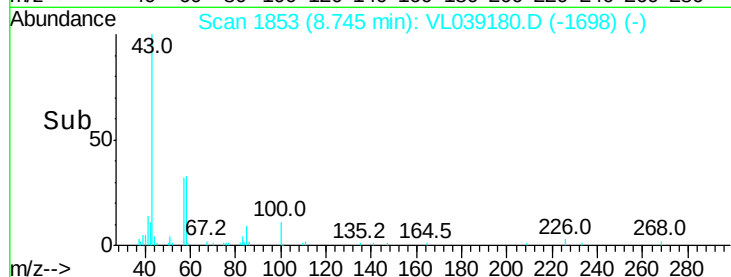
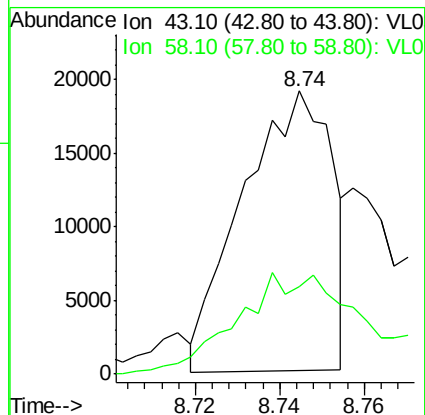
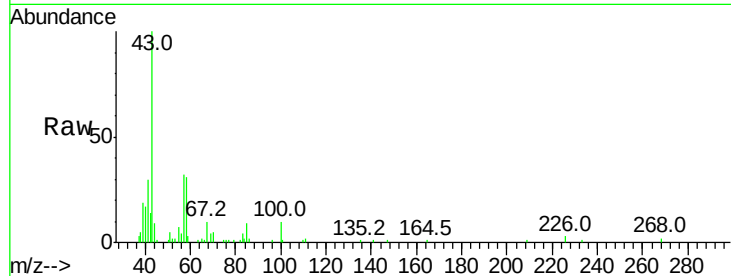
Acq: 6 Jun 2022 10:47 SG-7

Tgt Ion: 43 Resp: 28161

Ion Ratio Lower Upper

43 100

58 58.3 28.7 43.1#



#51

2-Hexanone

Concen: 0.13 ppbv

RT: 10.12 min Scan# 2282

Delta R.T. -0.01 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

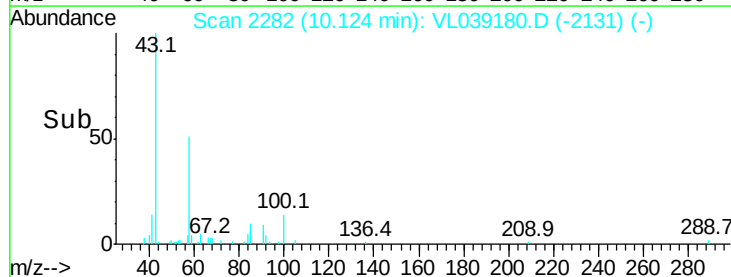
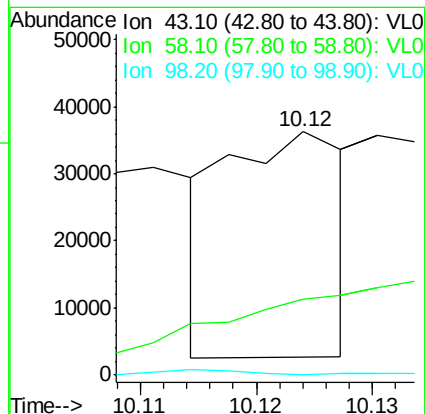
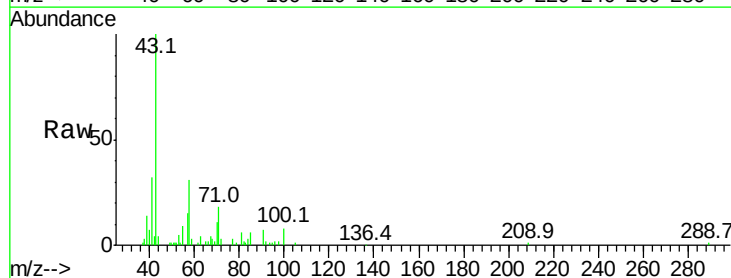
Tgt Ion: 43 Resp: 23917

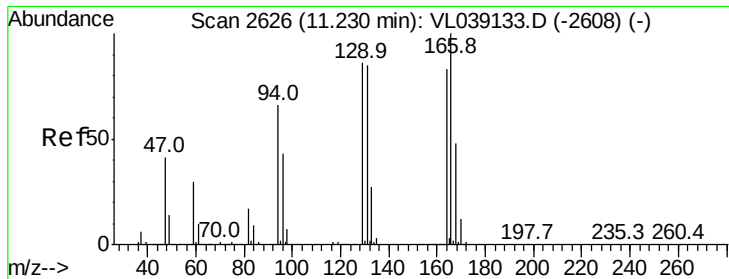
Ion Ratio Lower Upper

43 100

58 0.0 40.0 60.0#

98 4.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 36.81 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 Jun 2022 10:47

Tgt Ion:164 Resp: 3488302

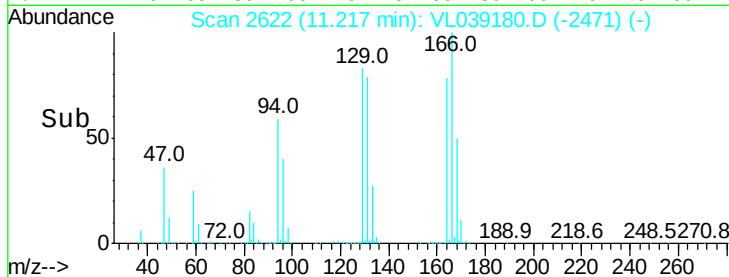
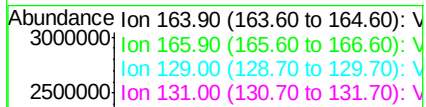
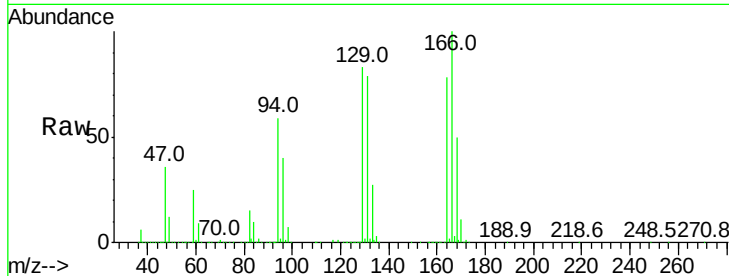
Ion Ratio Lower Upper

164 100

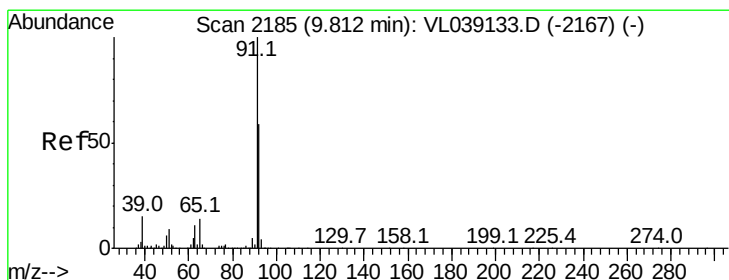
166 127.9 96.3 144.5

129 106.2 82.5 123.7

131 100.9 82.1 123.1



Time-->



#53

Toluene

Concen: 9.76 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL039180.D

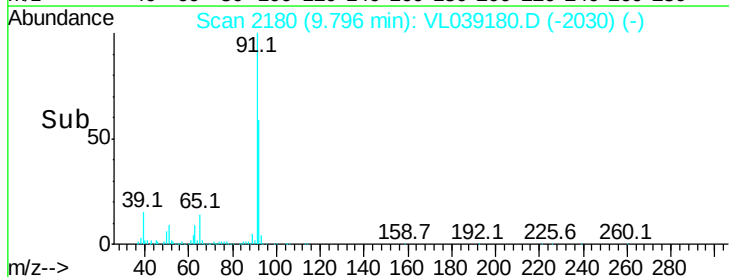
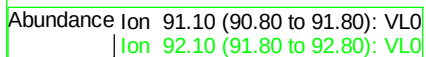
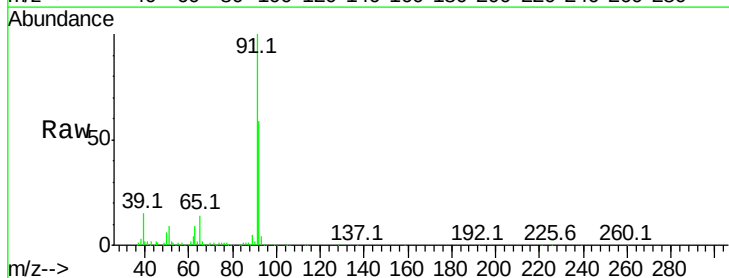
Acq: 6 Jun 2022 10:47

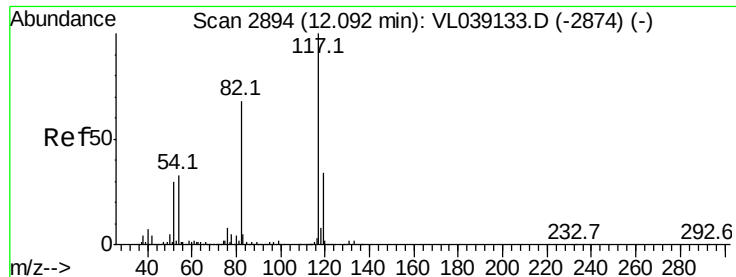
Tgt Ion: 91 Resp: 2727560

Ion Ratio Lower Upper

91 100

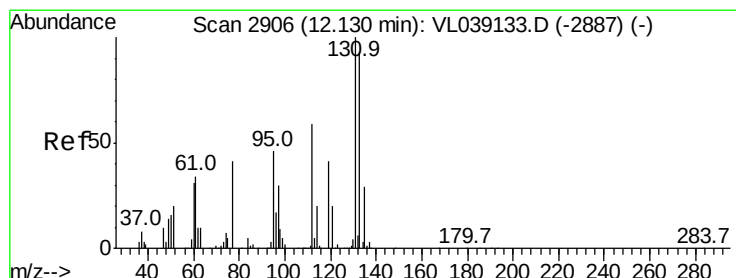
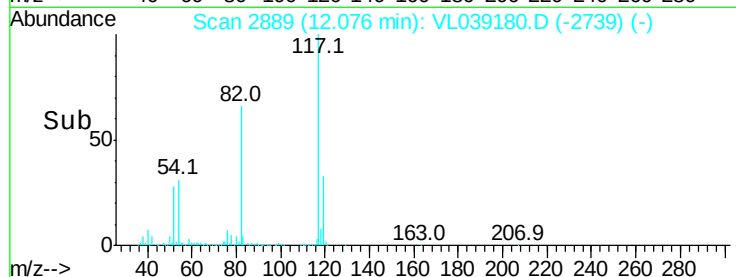
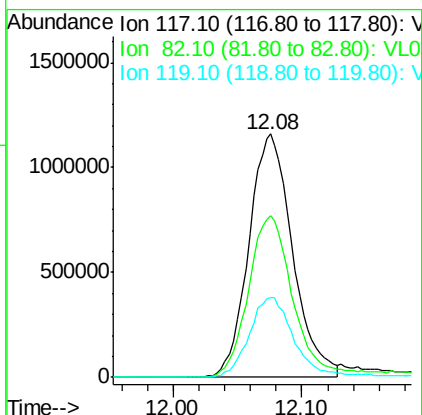
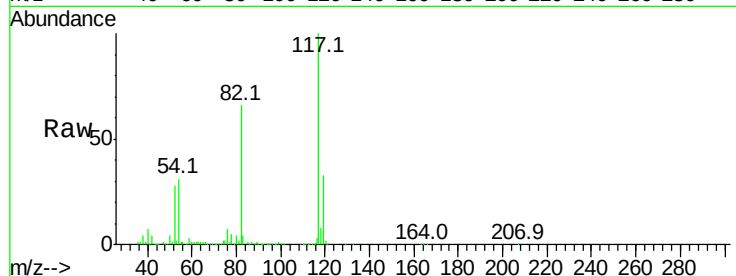
92 60.1 48.1 72.1





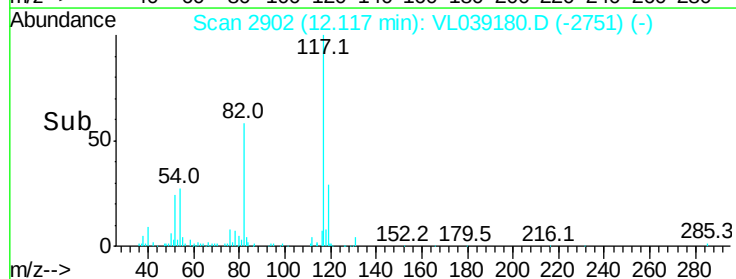
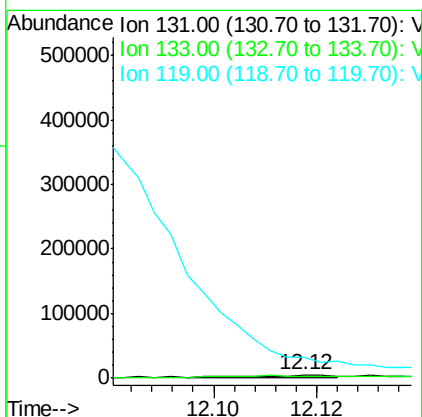
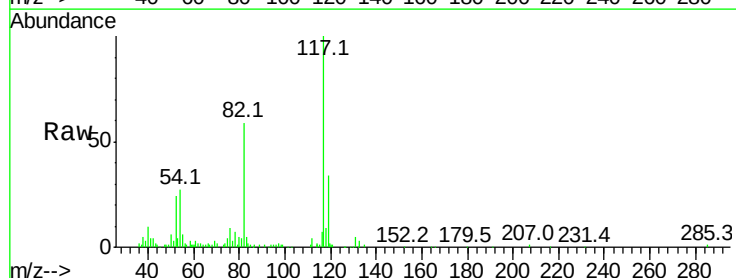
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.08
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 6 Jun 2022 10:47

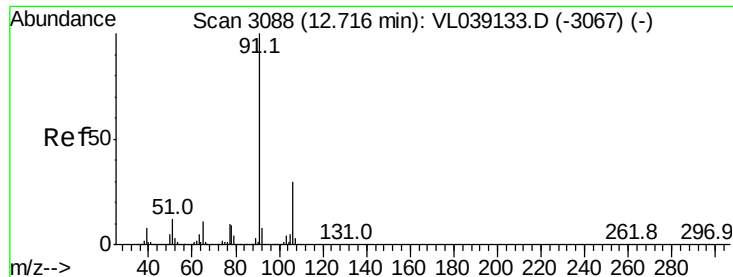
Tgt Ion:117 Resp: 2734914
Ion Ratio Lower Upper
117 100
82 67.7 55.1 82.7
119 34.8 24.7 37.1



#56
1,1,1,2-Tetrachloroethane
Concen: 0.04 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

Tgt Ion:131 Resp: 5396
Ion Ratio Lower Upper
131 100
133 0.0 78.6 117.8#
119 0.0 51.7 77.5#





#58

Ethyl Benzene

Concen: 2.70 ppbv

RT: 12.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

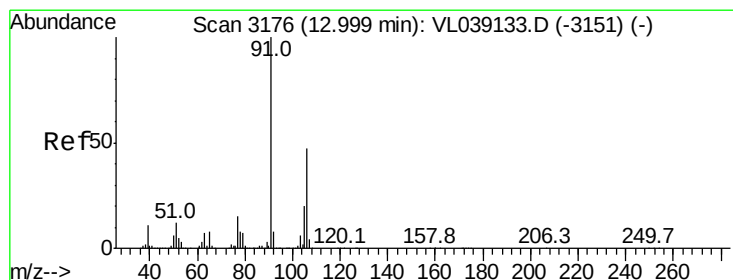
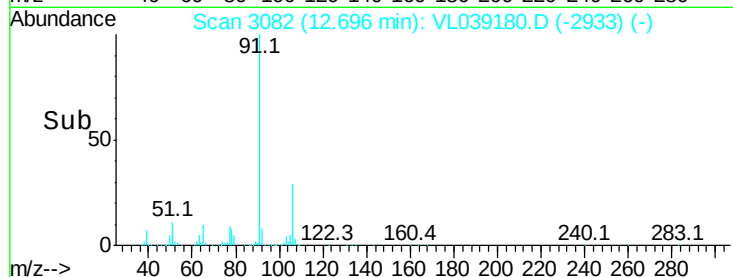
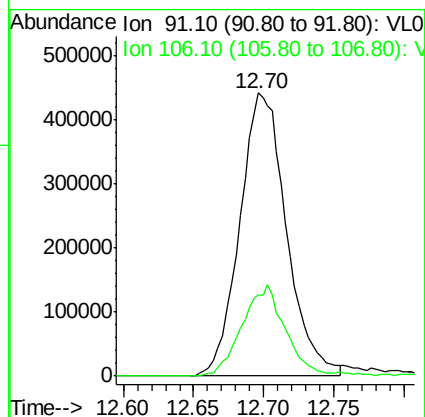
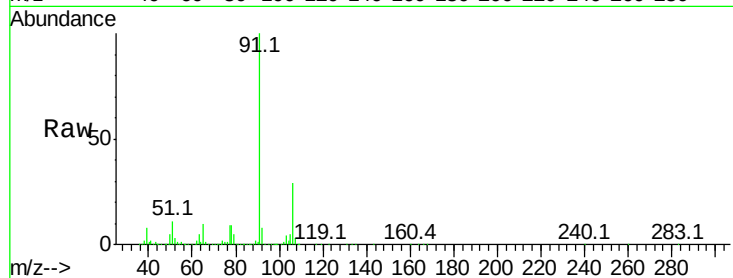
Acq: 6 Jun 2022 10:47

Tgt Ion: 91 Resp: 1016026

Ion Ratio Lower Upper

91 100

106 28.5 24.2 36.4



#59

m/p-Xylene

Concen: 10.74 ppbv

RT: 12.96 min Scan# 3163

Delta R.T. -0.04 min

Lab File: VL039180.D

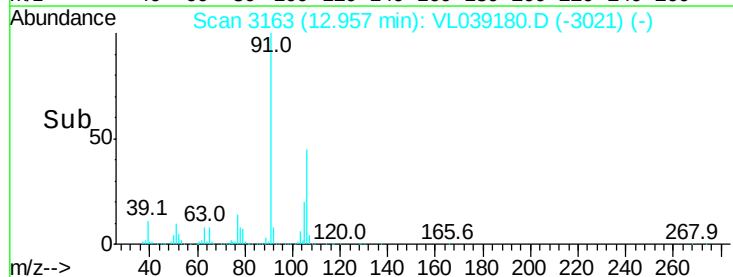
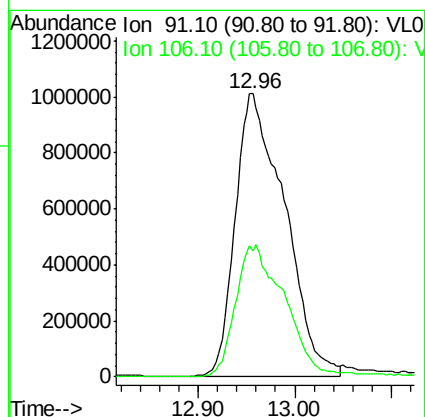
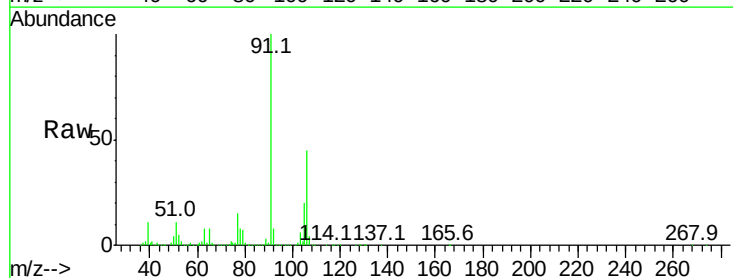
Acq: 6 Jun 2022 10:47

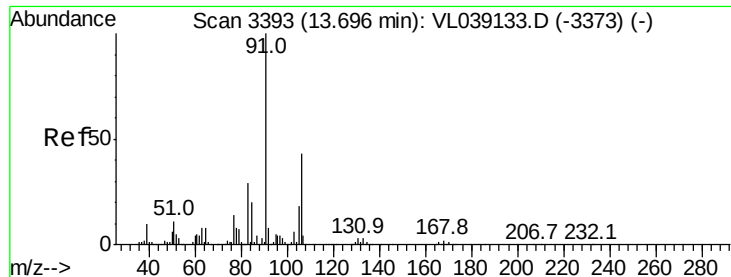
Tgt Ion: 91 Resp: 3563595

Ion Ratio Lower Upper

91 100

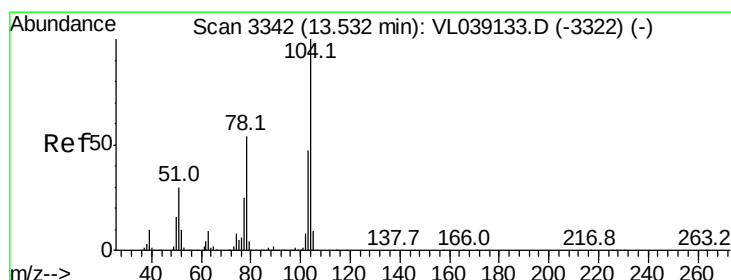
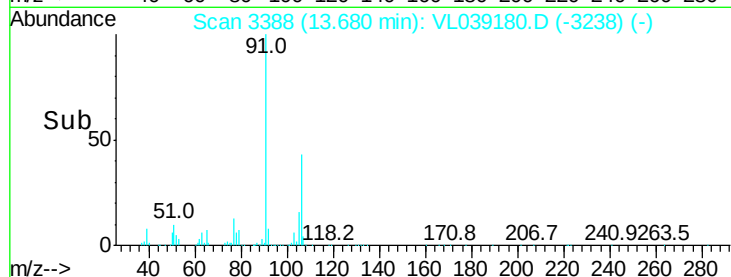
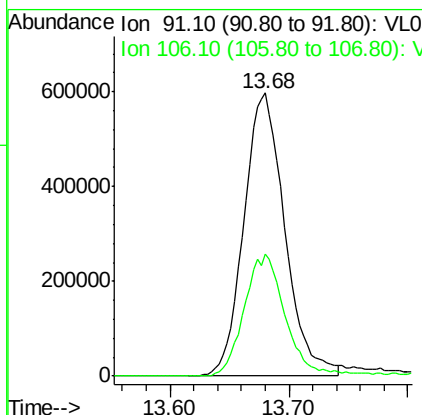
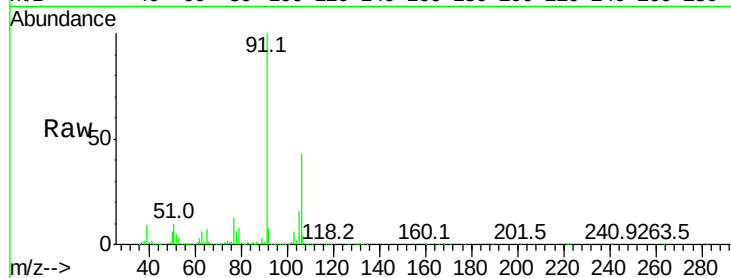
106 47.6 34.3 51.5





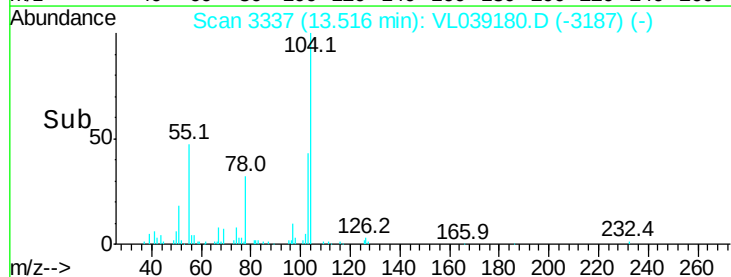
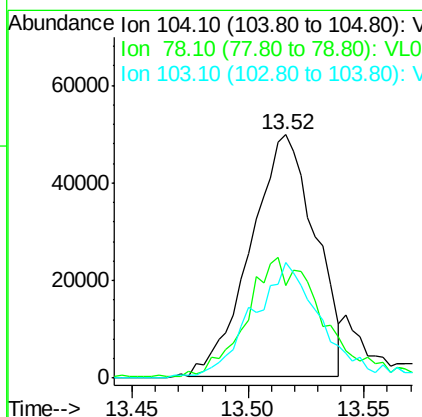
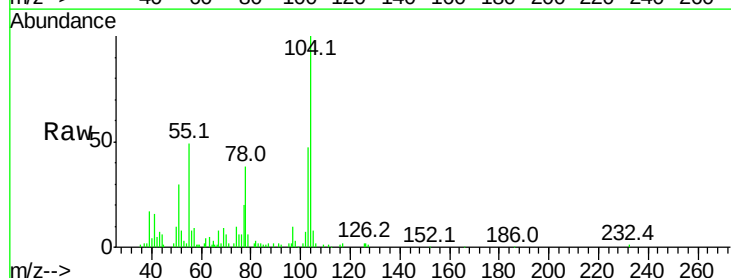
#60
o-Xylene
Concen: 4.54 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 6 Jun 2022 10:47

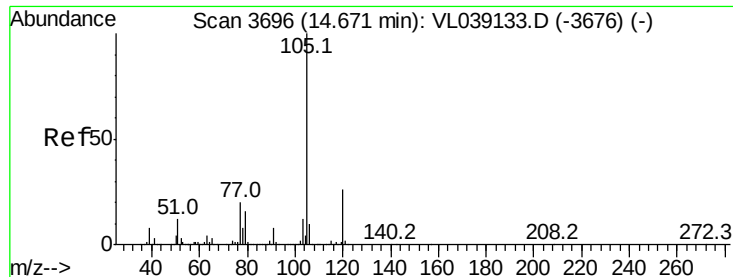
Tgt Ion: 91 Resp: 1414333
Ion Ratio Lower Upper
91 100
106 44.5 22.3 66.9



#61
Styrene
Concen: 0.57 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. -0.02 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

Tgt Ion: 104 Resp: 95511
Ion Ratio Lower Upper
104 100
78 63.4 45.7 68.5
103 53.2 39.6 59.4





#62

Isopropylbenzene

Concen: 0.35 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

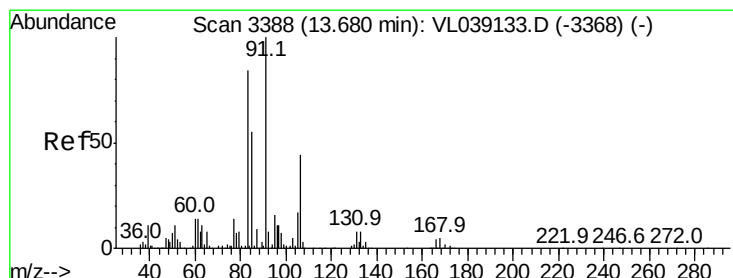
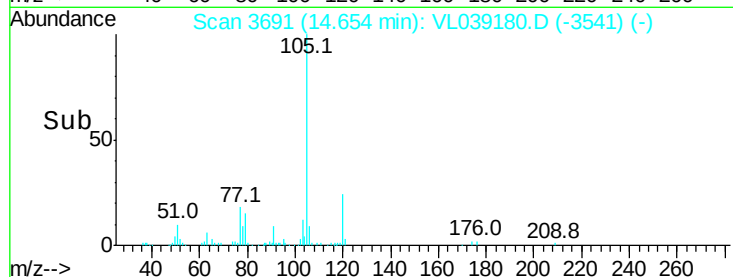
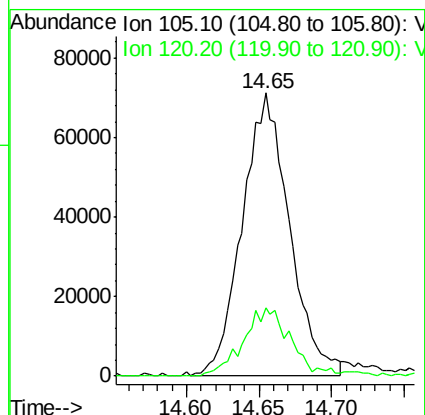
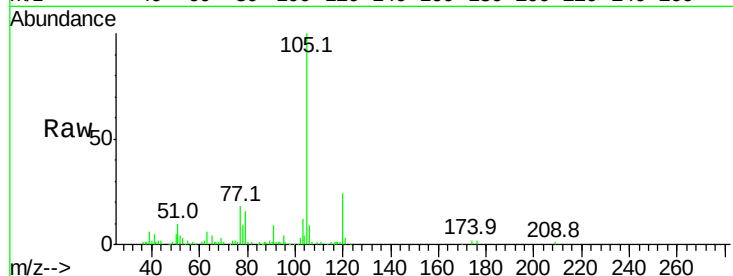
Acq: 6 Jun 2022 10:47

Tgt Ion: 105 Resp: 161235

Ion Ratio Lower Upper

105 100

120 25.2 20.3 30.5



#63

1,1,2,2-Tetrachloroethane

Concen: 0.03 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. -0.02 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

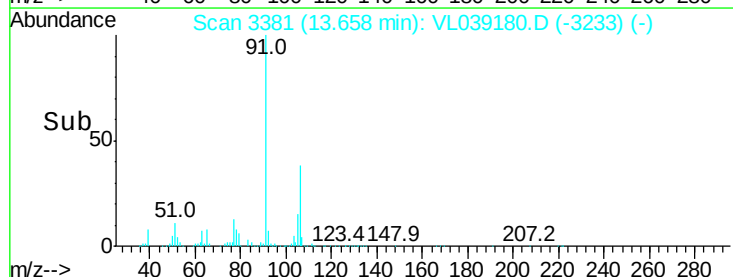
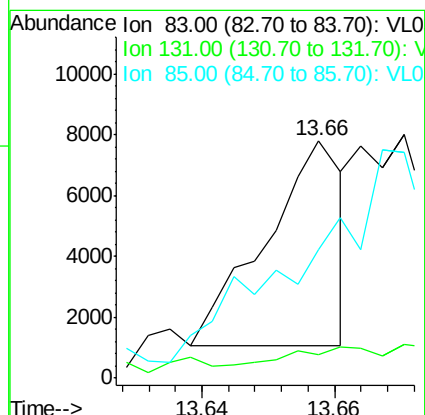
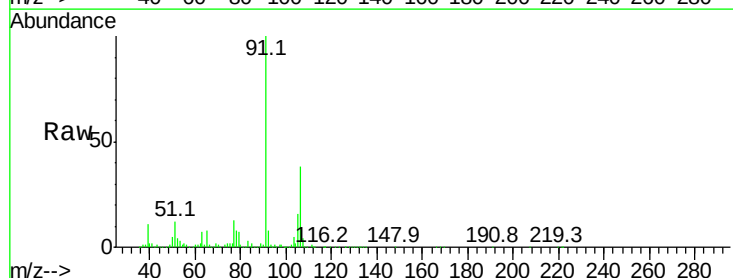
Tgt Ion: 83 Resp: 5467

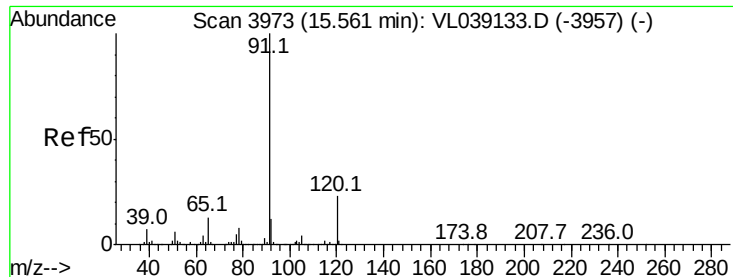
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

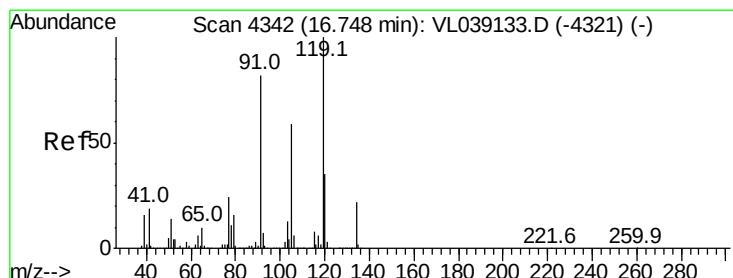
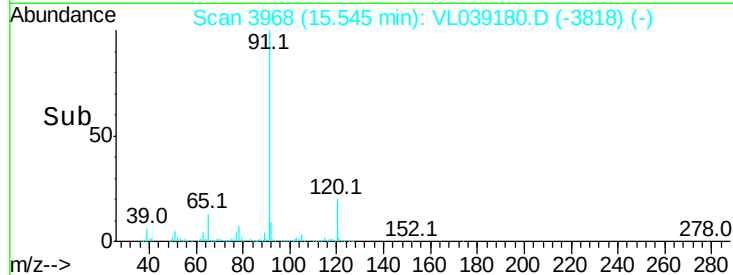
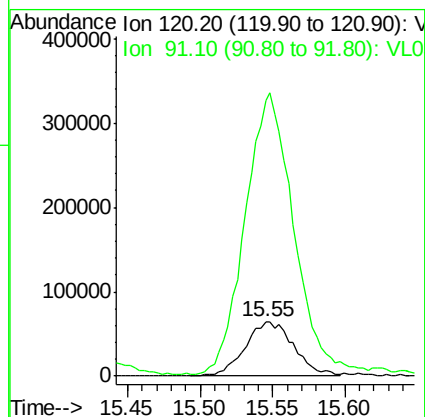
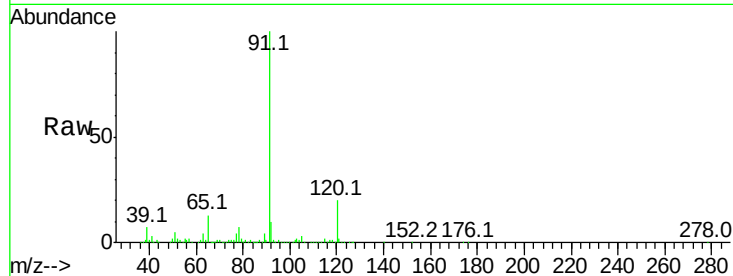
85 0.0 33.0 99.0#





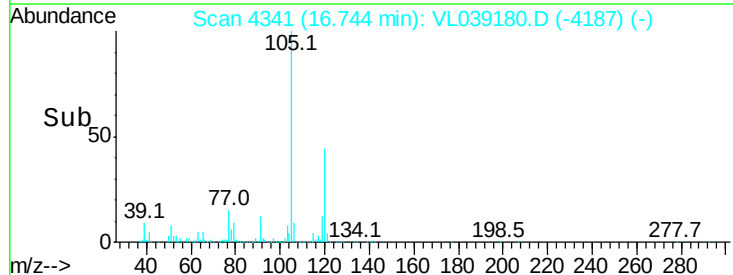
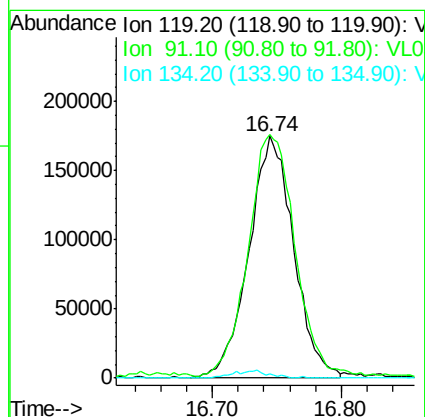
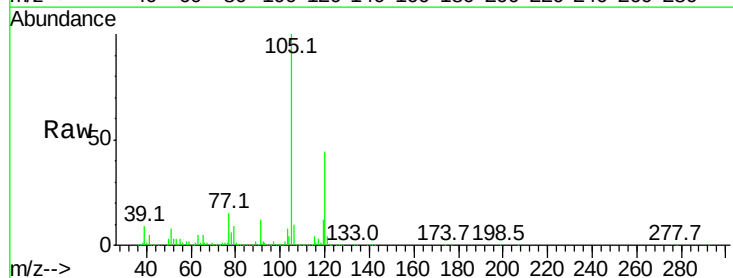
#64
n-propylbenzene
Concen: 1.32 ppbv
RT: 15.55
Delta R.T. MSVOA_1
Lab File: ClientSampleId : SG-7
Acq: 6 Jun 2022 10:47

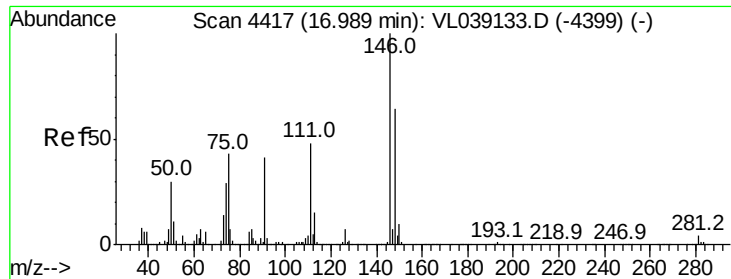
Tgt Ion:120 Resp: 150842
Ion Ratio Lower Upper
120 100
91 532.5 388.4 582.6



#65
tert-Butylbenzene
Concen: 0.99 ppbv
RT: 16.74 min Scan# 4341
Delta R.T. -0.00 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

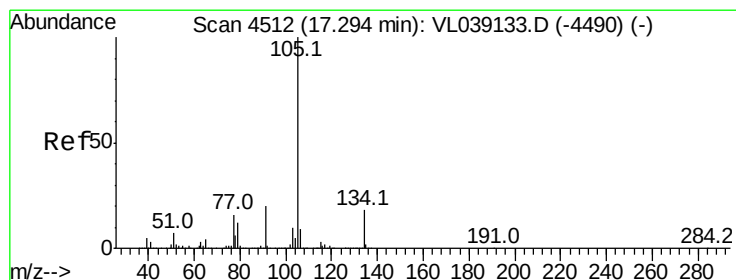
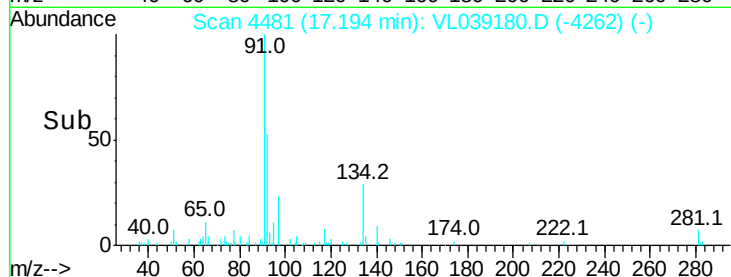
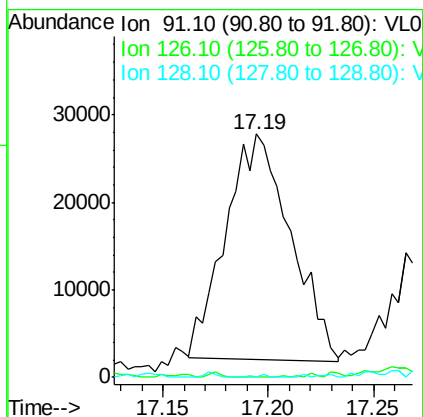
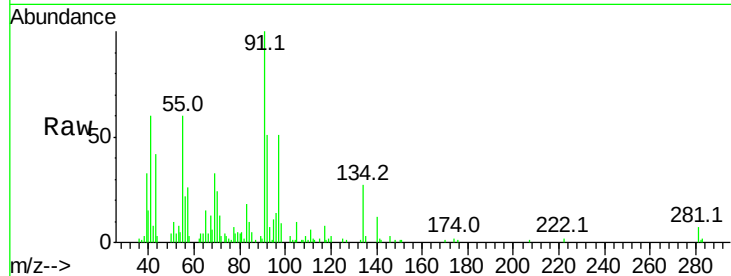
Tgt Ion:119 Resp: 419813
Ion Ratio Lower Upper
119 100
91 107.0 67.1 100.7#
134 2.7 15.8 23.8#





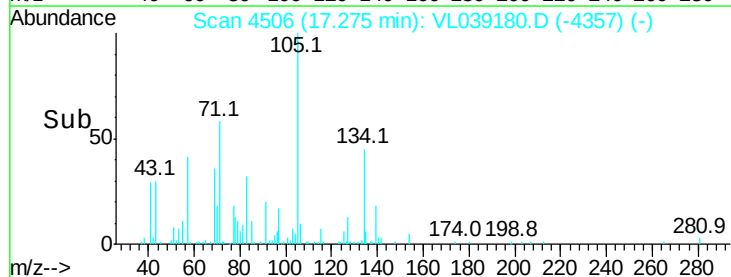
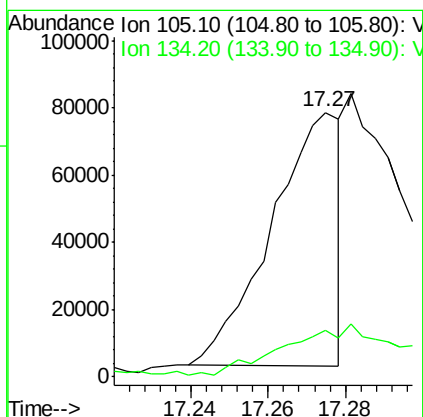
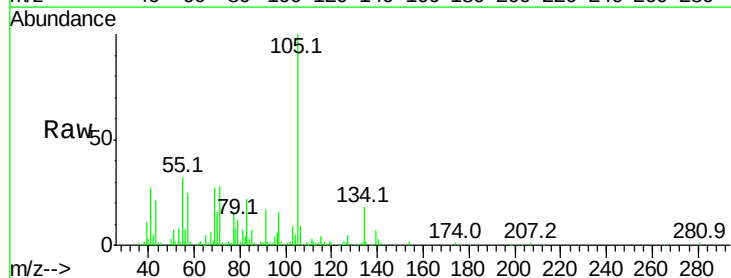
#66
Benzyl Chloride
Concen: 1.00 ppbv
RT: 17.19
Delta R.T. MSVOA_L
Lab File: ClientSampleId : SG-7
Acq: 6 Jun 2022 10:47

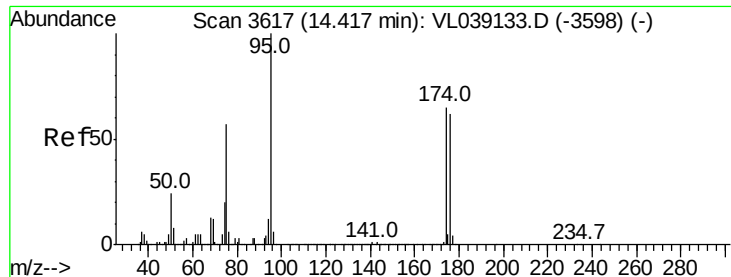
Tgt Ion: 91 Resp: 54986
Ion Ratio Lower Upper
91 100
126 0.0 13.4 20.0#
128 0.6 4.1 6.1#



#67
sec-Butylbenzene
Concen: 0.16 ppbv
RT: 17.27 min Scan# 4506
Delta R.T. -0.02 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

Tgt Ion: 105 Resp: 93326
Ion Ratio Lower Upper
105 100
134 16.2 14.4 21.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.66 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 Jun 2022 10:47

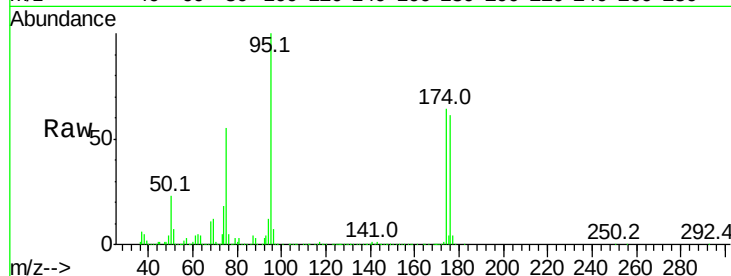
Tgt Ion: 95 Resp: 2184509

Ion Ratio Lower Upper

95 100

174 71.4 53.8 80.8

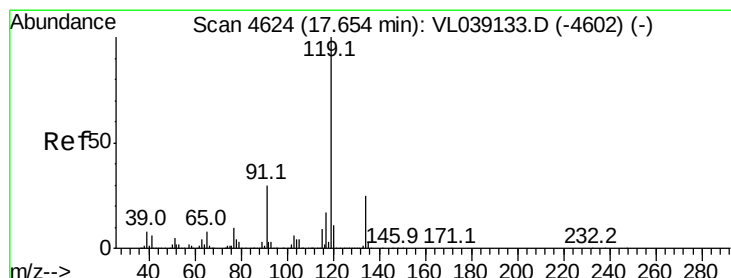
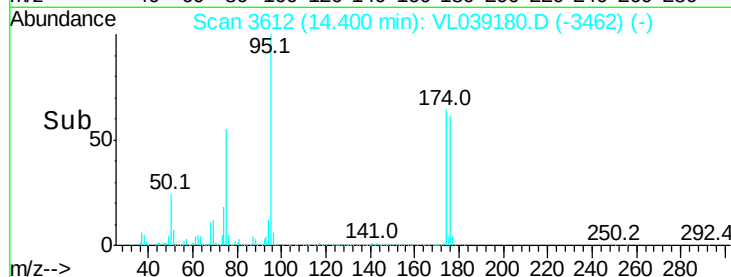
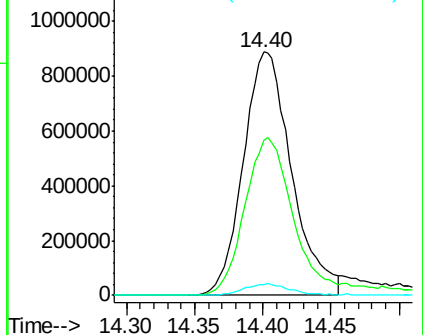
175 4.9 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.64 ppbv

RT: 17.64 min Scan# 4619

Delta R.T. -0.02 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

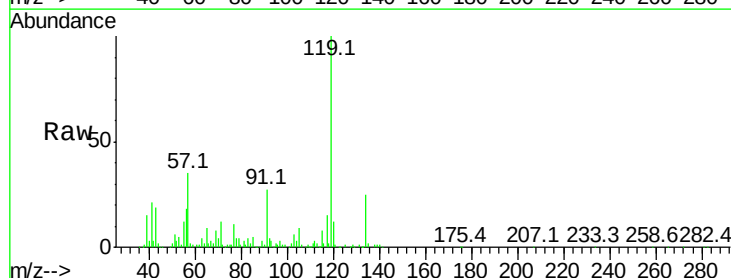
Tgt Ion: 119 Resp: 312201

Ion Ratio Lower Upper

119 100

134 26.2 20.4 30.6

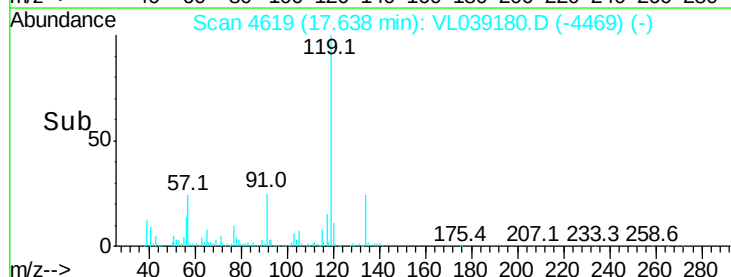
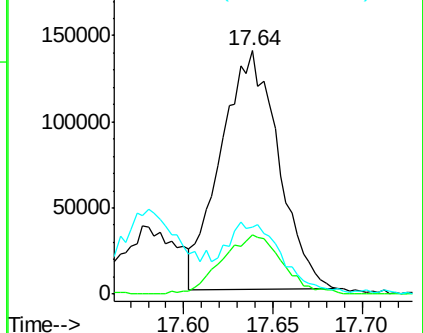
91 35.1 24.2 36.4

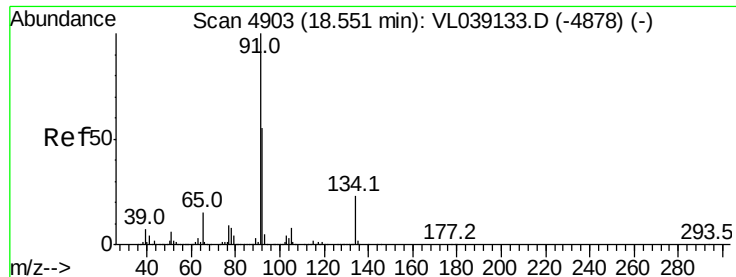


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#70

n-Butylbenzene

Concen: 0.94 ppbv

RT: 18.54

Delta R.T. MSVOA_1

Lab File:

Acq: 6 Jun 2022 10:47

ClientSampleId :

SG-7

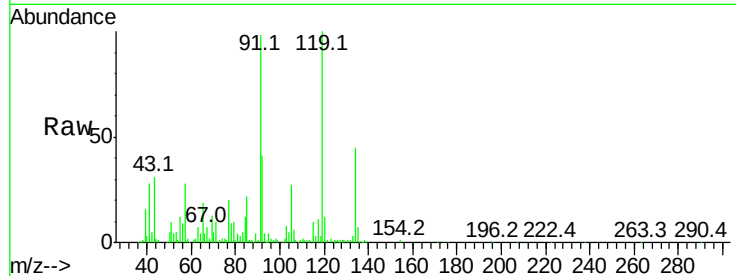
Tgt Ion: 91 Resp: 470054

Ion Ratio Lower Upper

91 100

92 39.2 43.6 65.4#

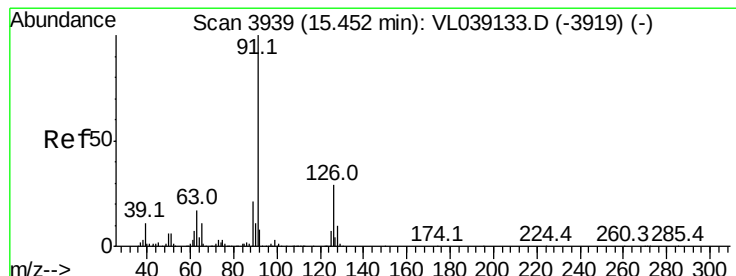
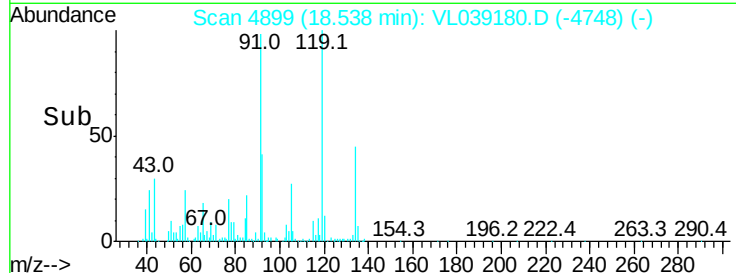
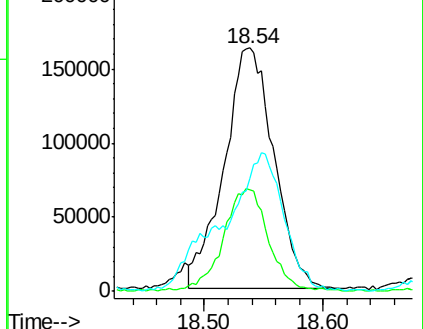
134 71.4 17.7 26.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.04 ppbv

RT: 15.44 min Scan# 3936

Delta R.T. -0.01 min

Lab File: VL039180.D

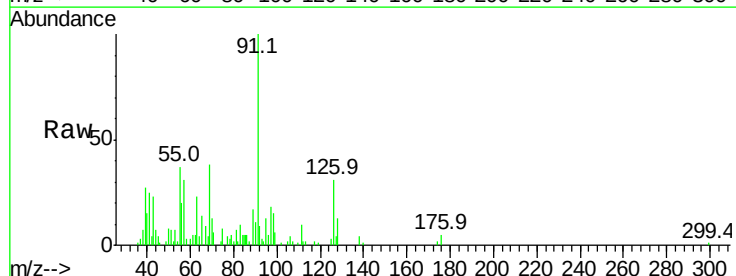
Acq: 6 Jun 2022 10:47

Tgt Ion: 91 Resp: 12401

Ion Ratio Lower Upper

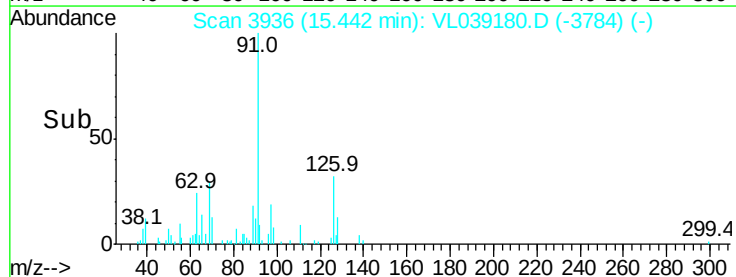
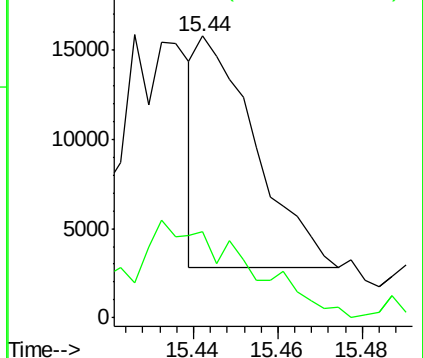
91 100

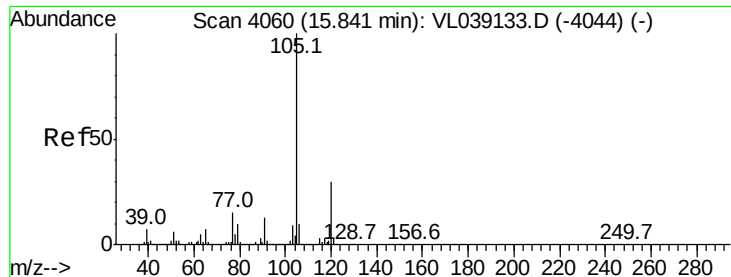
126 93.1 12.2 48.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 2.88 ppbv

RT: 15.82

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 6 Jun 2022 10:47

Tgt Ion:105 Resp: 1052192

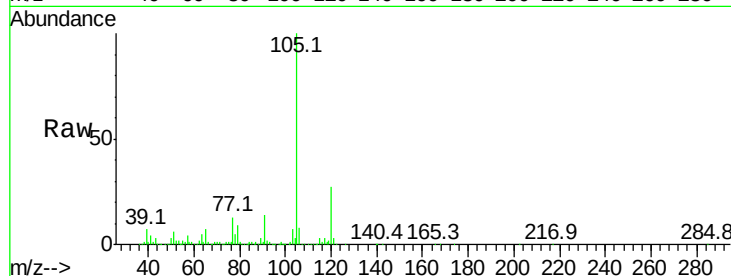
Ion Ratio Lower Upper

105 100

120 30.0 23.9 35.9

91 13.4 10.6 16.0

77 13.9 11.7 17.5

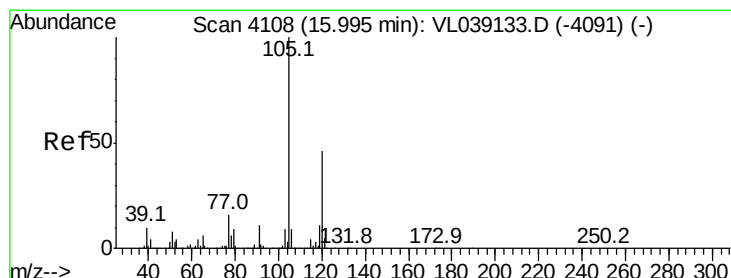
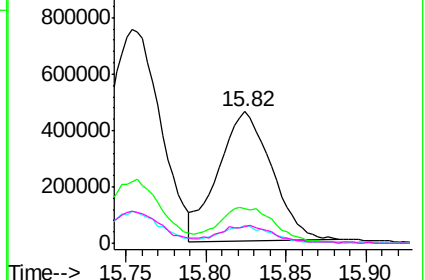
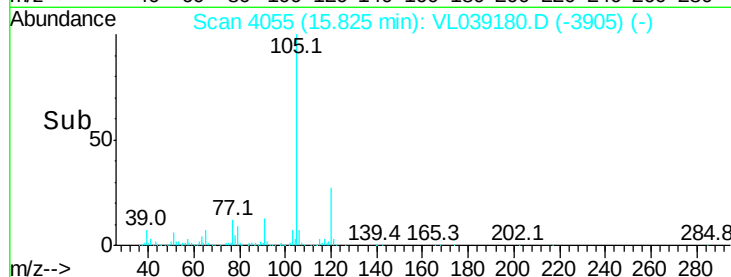


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 2.70 ppbv

RT: 15.99 min Scan# 4105

Delta R.T. -0.01 min

Lab File: VL039180.D

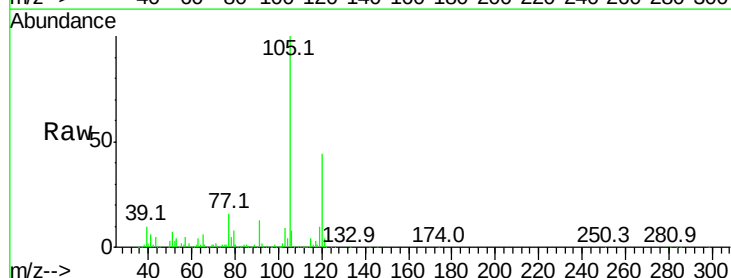
Acq: 6 Jun 2022 10:47

Tgt Ion:105 Resp: 888980

Ion Ratio Lower Upper

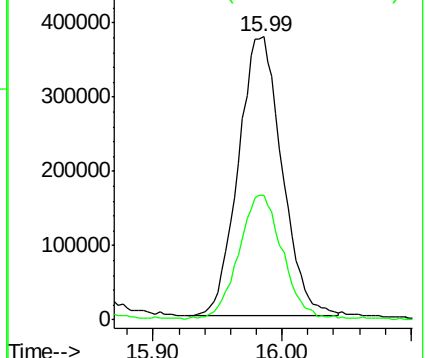
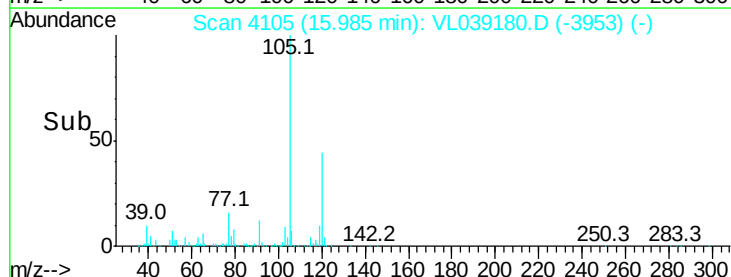
105 100

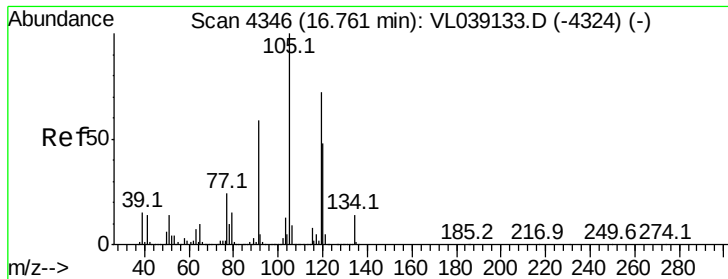
120 44.1 36.7 55.1



Abundance Ion 105.10 (104.80 to 105.80): V

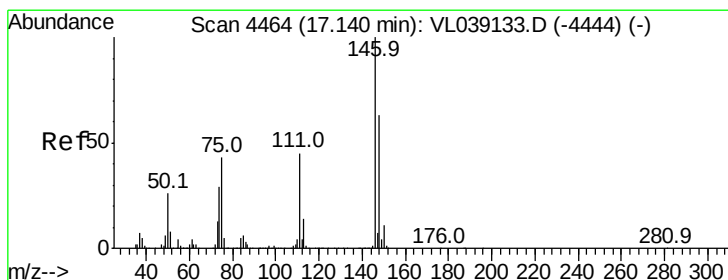
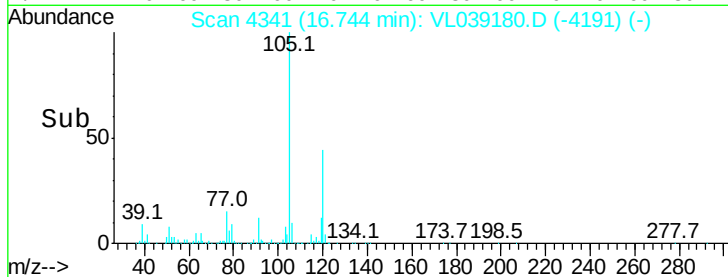
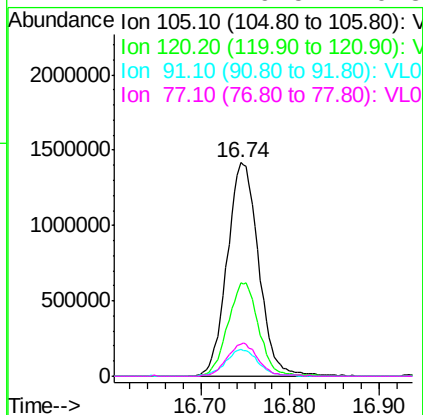
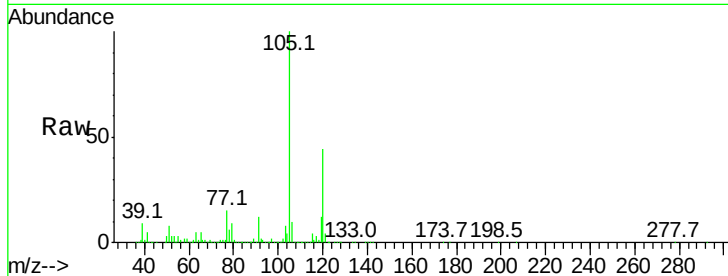
Ion 120.20 (119.90 to 120.90): V





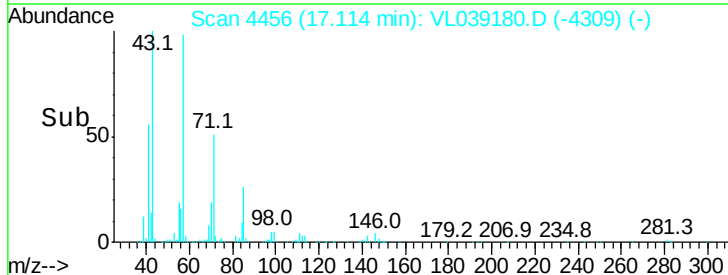
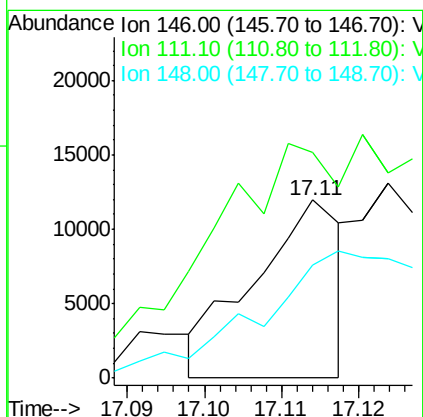
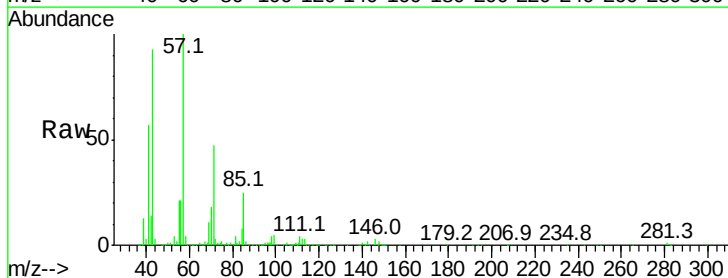
#74
 1,2,4-Trimethylbenzene
 Concen: 9.41 ppbv
 RT: 16.74 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 6 Jun 2022 10:47

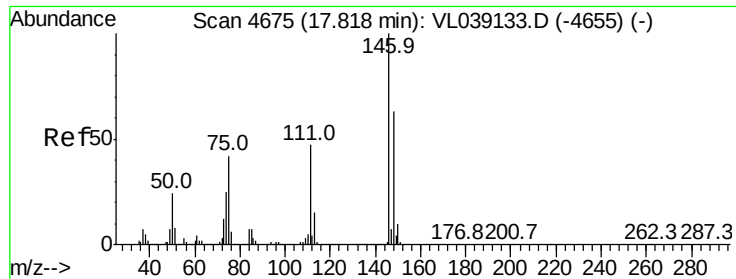
Tgt Ion:	105	Resp:	3461618
Ion	Ratio	Lower	Upper
105	100		
120	43.8	38.1	57.1
91	12.3	47.4	71.0#
77	14.7	19.5	29.3#



#76
 1,4-Dichlorobenzene
 Concen: 0.05 ppbv
 RT: 17.11 min Scan# 4456
 Delta R.T. -0.03 min
 Lab File: VL039180.D
 Acq: 6 Jun 2022 10:47

Tgt Ion:	146	Resp:	9495
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.6	71.0#
148	0.0	33.7	101.0#





#77

1,2-Dichlorobenzene

Concen: 0.04 ppbv

RT: 17.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 Jun 2022 10:47

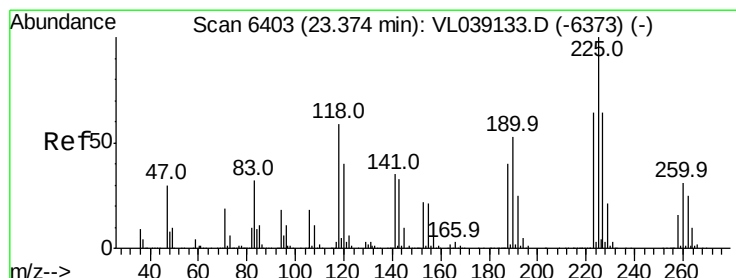
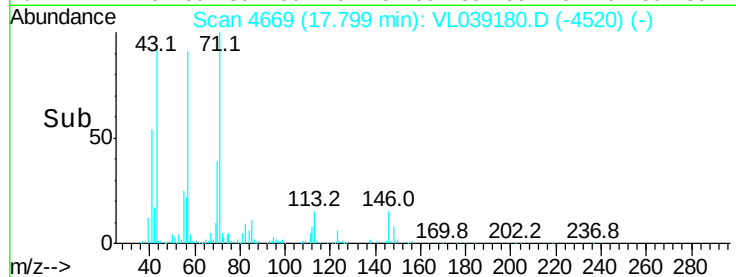
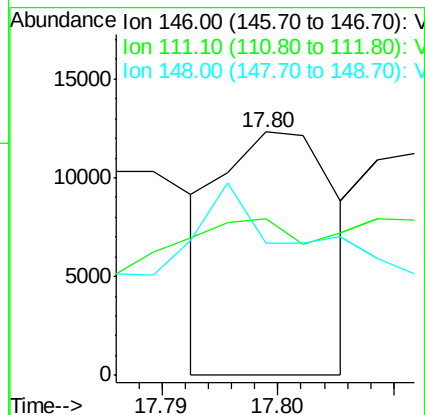
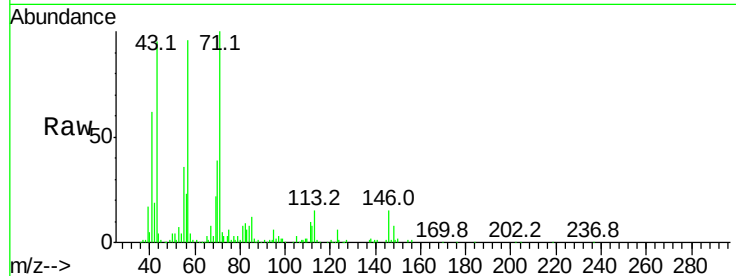
Tgt Ion:146 Resp: 8403

Ion Ratio Lower Upper

146 100

111 228.4 24.4 73.4#

148 230.4 32.1 96.5#



#78

Hexachloro-1,3-Butadiene

Concen: 0.06 ppbv

RT: 23.35 min Scan# 6395

Delta R.T. -0.03 min

Lab File: VL039180.D

Acq: 6 Jun 2022 10:47

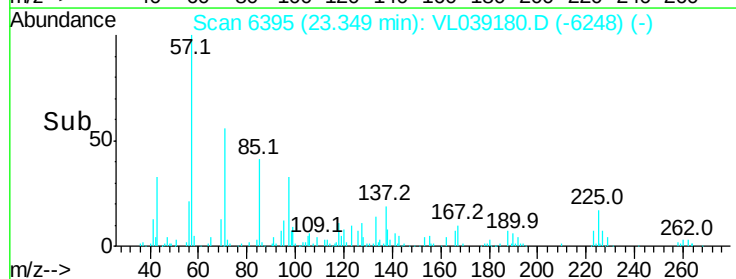
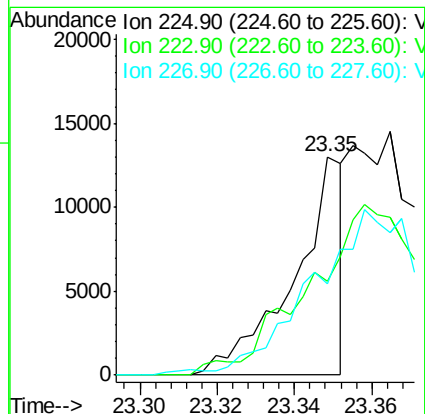
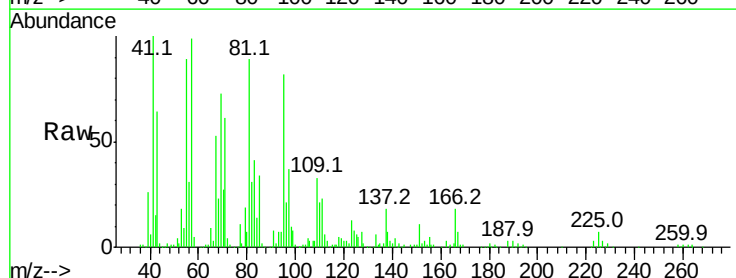
Tgt Ion:225 Resp: 11522

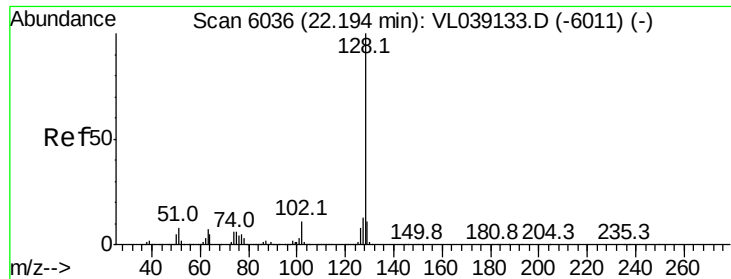
Ion Ratio Lower Upper

225 100

223 0.0 51.4 77.0#

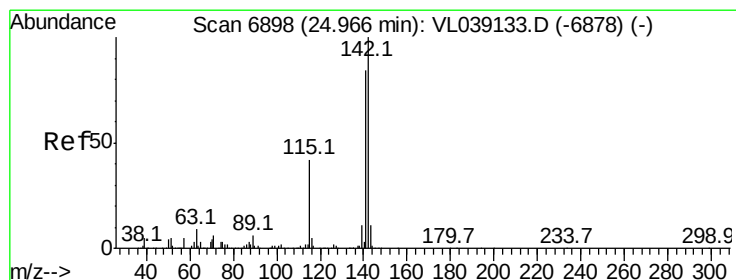
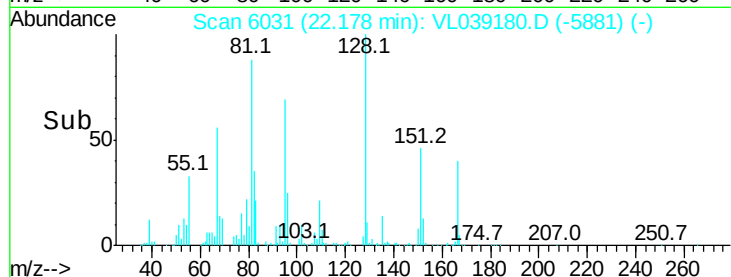
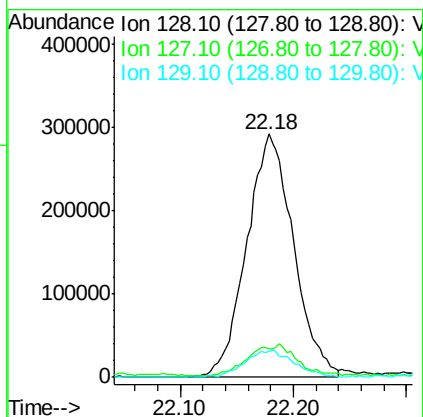
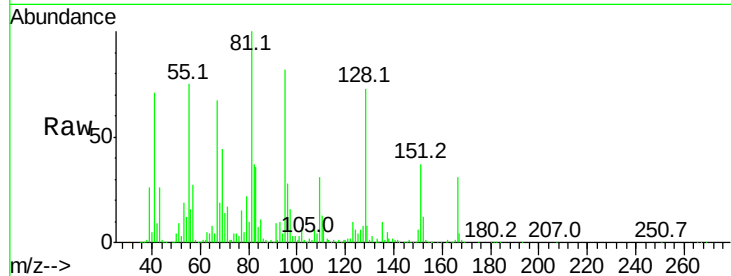
227 0.0 50.6 75.8#





#79
Naphthalene
Concen: 2.95 ppbv
RT: 22.18 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SG-7
Acq: 6 Jun 2022 10:47

Tgt Ion:	128	Resp:	836100
Ion	Ratio	Lower	Upper
128	100		
127	10.8	10.4	15.6
129	10.8	9.0	13.6



#80
Naphthalene, 2-methyl-
Concen: 0.73 ppbv
RT: 24.96 min Scan# 6895
Delta R.T. -0.01 min
Lab File: VL039180.D
Acq: 6 Jun 2022 10:47

Tgt Ion:	142	Resp:	76528
Ion	Ratio	Lower	Upper
142	100		
141	77.3	64.6	96.8
115	50.0	32.7	49.1#

