

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038986.D
 Acq On : 5 May 2022 23:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 06 07:30:32 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	954689	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2164977	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1804301	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1503272	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.19	85	21947	0.147	ppbv	96
3) Chlorodifluoromethane	2.99	51	19844	0.168	ppbv	99
4) Chloromethane	3.14	50	6962	0.117	ppbv #	79
5) Vinyl Chloride	3.26	62	5919	0.109	ppbv	92
6) Bromomethane	3.48	94	1785	0.070	ppbv #	37
7) Chloroethane	3.56	64	1761	0.097	ppbv	89
8) Dichlorotetrafluoroethane	3.19	85	21947	0.162	ppbv	98
10) Heptane	8.11	43	6952	0.055	ppbv #	1
11) Trichlorofluoromethane	3.95	101	21404	0.167	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	9918	0.112	ppbv #	15
14) Bromoethene	3.74	108	2062	0.057	ppbv #	1
15) Acetone	3.87	43	18733	0.208	ppbv	94
16) 1,3-Butadiene	3.32	39	1774	0.034	ppbv #	9
18) 1,1-Dichloroethene	4.29	96	4144	0.109	ppbv #	89
20) Methylene Chloride	4.34	84	3792	0.112	ppbv #	42
21) Allyl Chloride	4.41	41	3624	0.059	ppbv #	19
22) trans-1,2-Dichloroethene	4.88	96	2148	0.052	ppbv #	33
23) Vinyl Acetate	5.07	43	2651	0.037	ppbv #	77
24) 1,1-Dichloroethane	5.01	63	6760	0.082	ppbv #	94
25) Ethyl Acetate	5.69	43	14556	0.068	ppbv #	66
26) Hexane	5.68	57	11346	0.118	ppbv #	81
27) Carbon Disulfide	4.55	76	3820	0.042	ppbv #	57
28) Methyl tert-Butyl Ether	5.05	73	7716	0.106	ppbv #	56
29) Chloroform	5.75	83	25383	0.164	ppbv	99
30) Cyclohexane	7.12	84	3858	0.048	ppbv #	1
31) cis-1,2-Dichloroethene	5.55	61	7560	0.077	ppbv	95
32) 1,1,1-Trichloroethane	6.50	97	9317	0.060	ppbv #	9
35) Carbon Tetrachloride	7.01	117	12642	0.089	ppbv #	90
36) Benzene	6.89	78	24007	0.130	ppbv	98
37) 1,2-Dichloroethane	6.29	62	5546	0.048	ppbv #	83
38) Trichloroethene	7.83	130	5774	0.070	ppbv #	69
39) 1,2-Dichloropropane	7.20	63	20982	0.291	ppbv #	26
41) Tetrahydrofuran	6.08	42	2971	0.040	ppbv #	29
42) Bromodichloromethane	7.79	83	9380	0.060	ppbv #	92
43) Methyl Methacrylate	8.01	69	2575	0.034	ppbv #	1
44) 2,2,4-Trimethylpentane	7.86	57	21365	0.066	ppbv #	32
46) cis-1,3-Dichloropropene	8.68	75	2961	0.031	ppbv #	84
47) 1,1,2-Trichloroethane	9.47	97	2382	0.032	ppbv #	58
48) Dibromochloromethane	10.30	129	4617	0.038	ppbv #	1
52) Tetrachloroethene	11.21	164	5265	0.080	ppbv #	66
54) 1,2-Dibromoethane	10.61	107	4020	0.039	ppbv	97

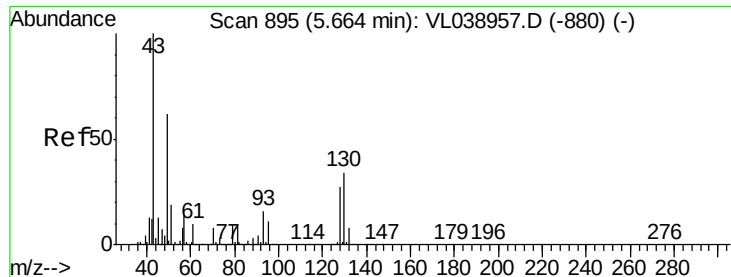
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
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Quant Time: May 06 07:30:32 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,1,1,2-Tetrachloroethane	12.11	131	4123	0.052	ppbv #	9
57) Chlorobenzene	12.13	112	15180	0.112	ppbv #	36
58) Ethyl Benzene	12.71	91	9773	0.038	ppbv	98
59) m/p-Xylene	12.99	91	11375	0.051	ppbv #	1
60) o-Xylene	13.67	91	10885	0.052	ppbv #	15
61) Styrene	13.52	104	4959	0.045	ppbv #	1
62) Isopropylbenzene	14.65	105	15656	0.059	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.66	83	5690	0.046	ppbv #	1
64) n-propylbenzene	15.55	120	3685	0.050	ppbv #	1
65) tert-Butylbenzene	16.73	119	9576	0.036	ppbv #	1
66) Benzyl Chloride	16.97	91	1239	0.035	ppbv #	70
67) sec-Butylbenzene	17.28	105	35307	0.092	ppbv #	84
69) p-Isopropyltoluene	17.64	119	12965	0.042	ppbv #	23
70) n-Butylbenzene	18.54	91	24081	0.073	ppbv #	54
71) 2-Chlorotoluene	15.44	91	10890	0.046	ppbv #	19
72) 4-Ethyltoluene	15.82	105	14158	0.060	ppbv #	44
73) 1,3,5-Trimethylbenzene	15.98	105	15594	0.073	ppbv #	80
74) 1,2,4-Trimethylbenzene	16.74	105	9116	0.039	ppbv #	50
75) 1,3-Dichlorobenzene	16.97	146	5985	0.047	ppbv #	1
76) 1,4-Dichlorobenzene	17.12	146	8668	0.069	ppbv #	18
77) 1,2-Dichlorobenzene	17.79	146	4094	0.032	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.36	225	20448	0.175	ppbv #	62
79) Naphthalene	22.17	128	7468	0.039	ppbv #	97
80) Naphthalene,2-methyl-	24.98	142	2454	0.043	ppbv #	34
81) 1,2,4-Trichlorobenzene	21.91	180	7870	0.071	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

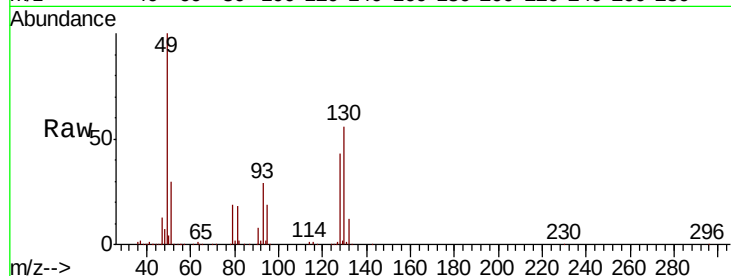
Tot Ion: 49 Resp: 954689

Ion Ratio Lower Upper

49 100

128 45.2 23.3 69.8

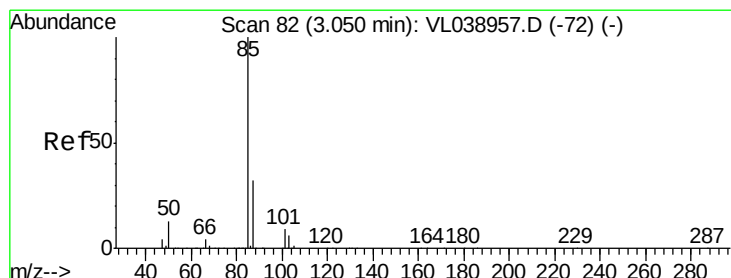
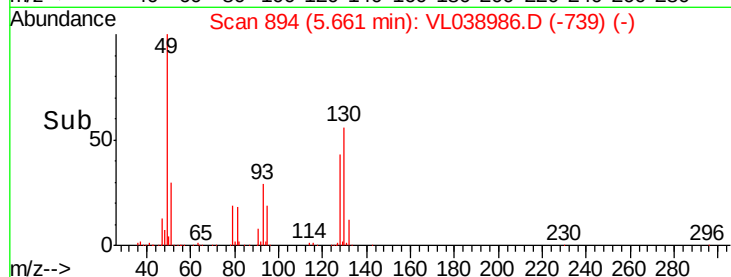
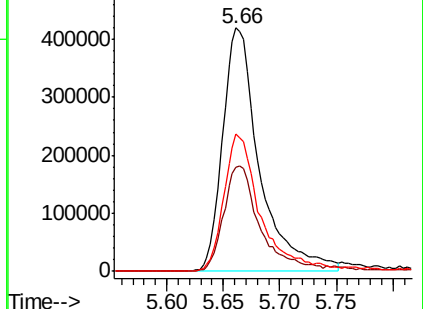
130 57.6 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.147 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.14 min

Lab File: VL038986.D

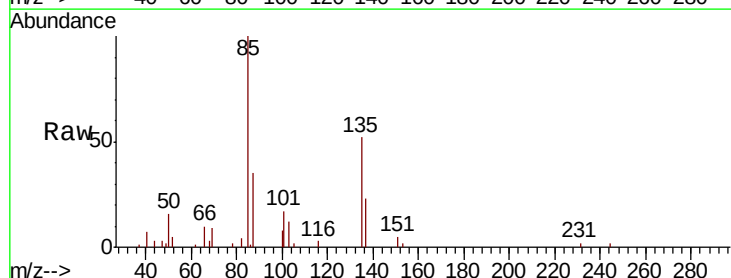
Acq: 5 May 2022 23:55

Tgt Ion: 85 Resp: 21947

Ion Ratio Lower Upper

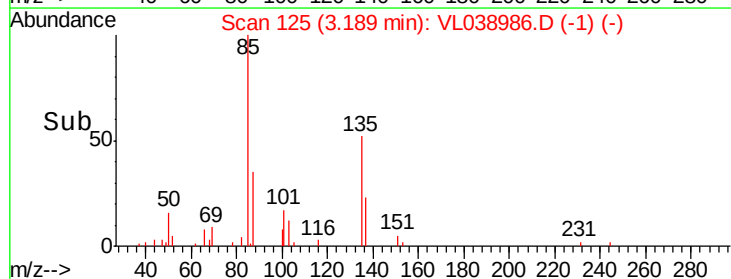
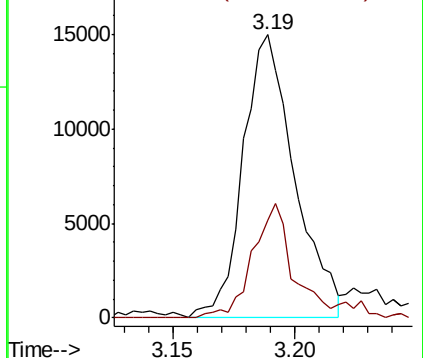
85 100

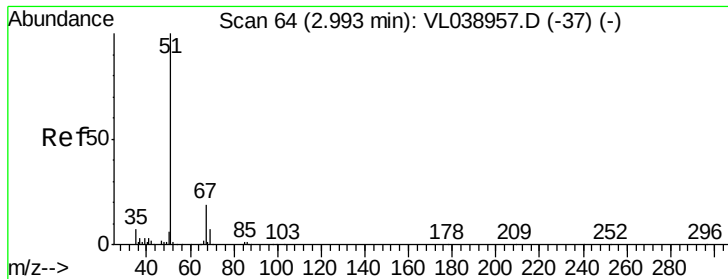
87 34.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.168 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

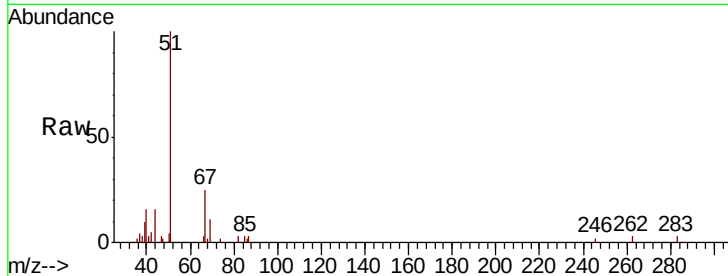
Acq: 5 May 2022 23:55

Tot Ion: 51 Resp: 19844

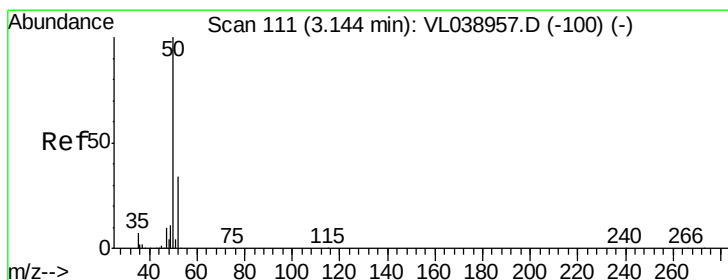
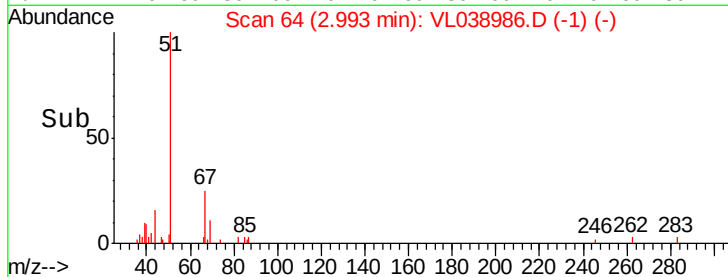
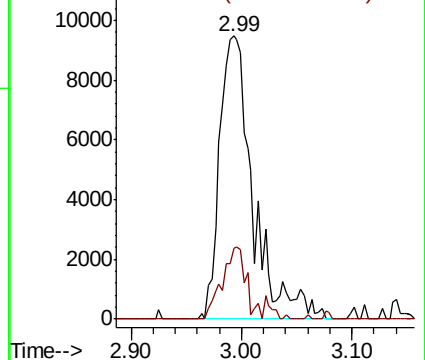
Ion Ratio Lower Upper

51 100

67 20.2 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.117 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038986.D

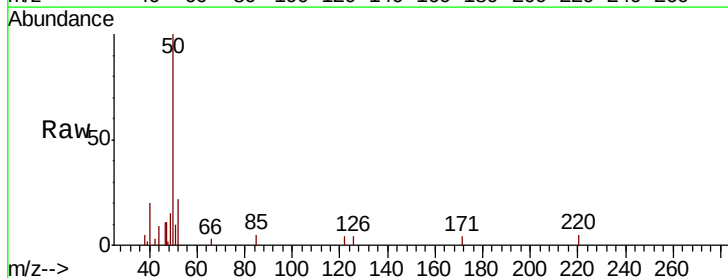
Acq: 5 May 2022 23:55

Tgt Ion: 50 Resp: 6962

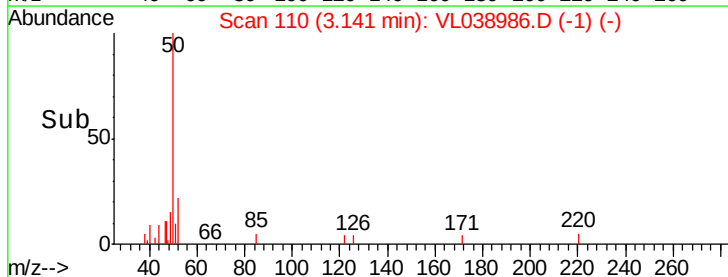
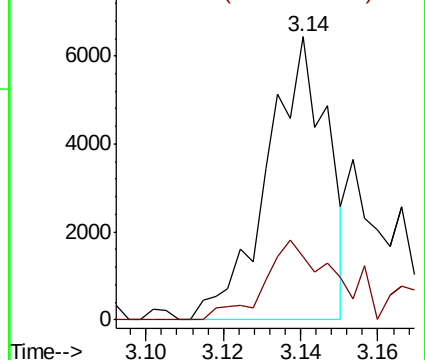
Ion Ratio Lower Upper

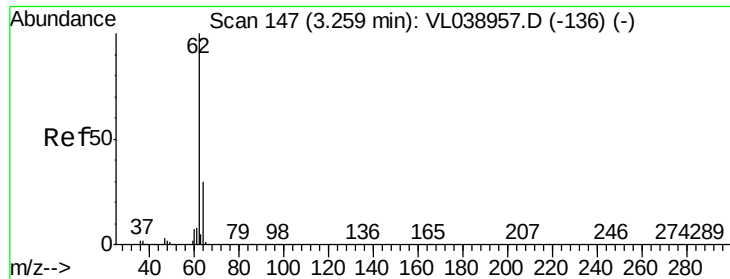
50 100

52 22.3 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.109 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

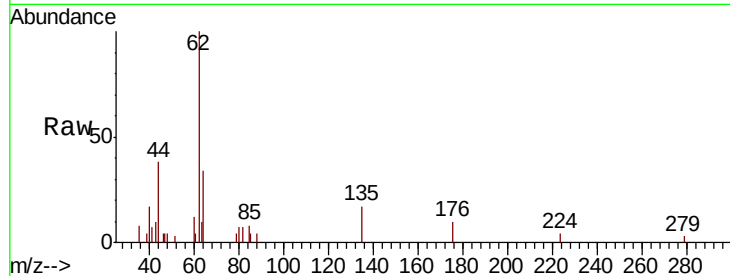
Acq: 5 May 2022 23:55

Tot Ion: 62 Resp: 5919

Ion Ratio Lower Upper

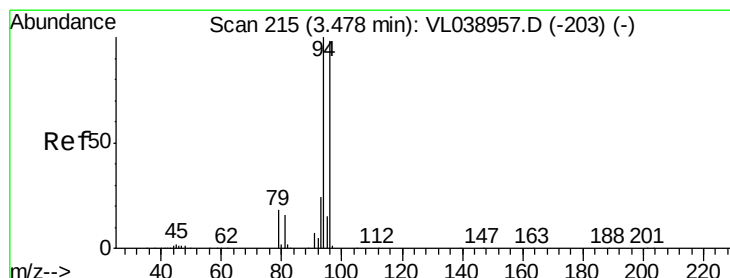
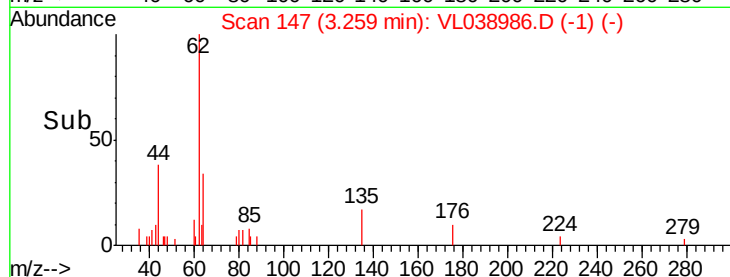
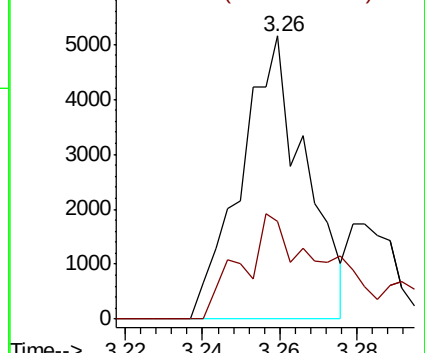
62 100

64 34.5 24.2 36.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.070 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.00 min

Lab File: VL038986.D

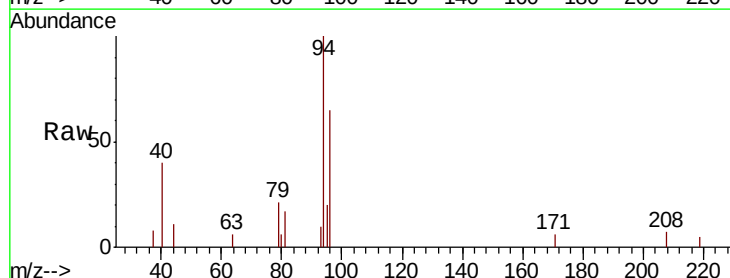
Acq: 5 May 2022 23:55

Tgt Ion: 94 Resp: 1785

Ion Ratio Lower Upper

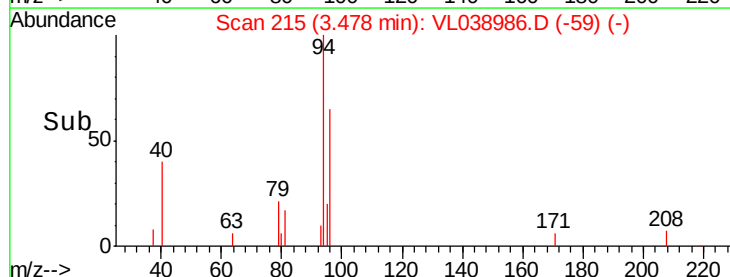
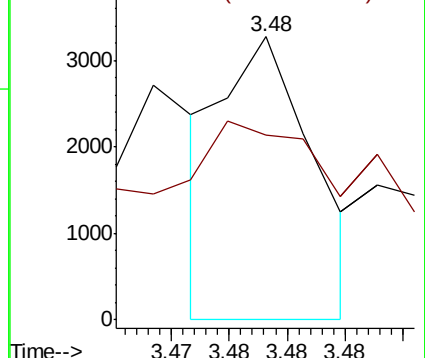
94 100

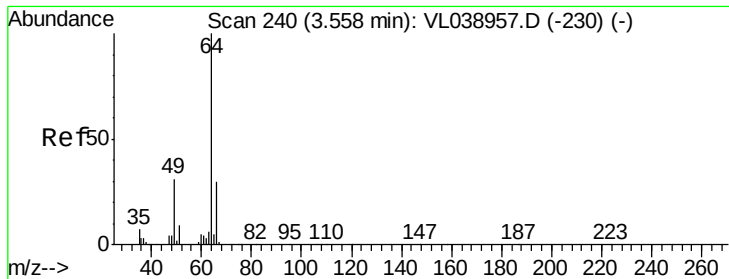
96 35.2 78.1 117.1#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.097 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

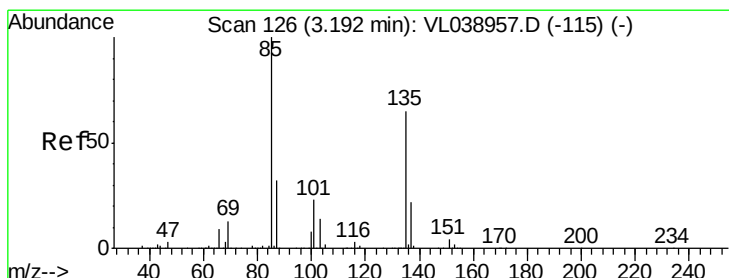
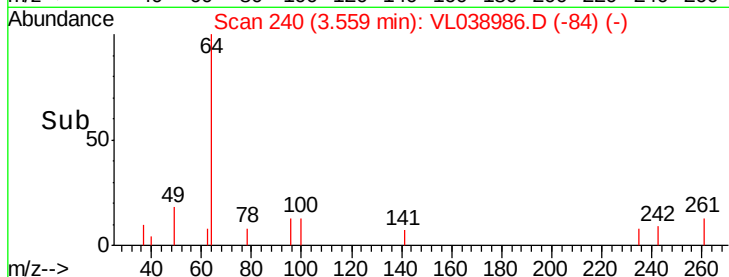
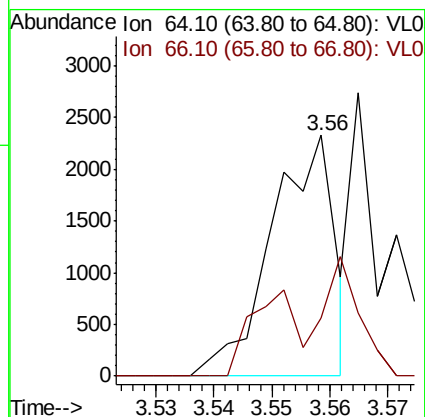
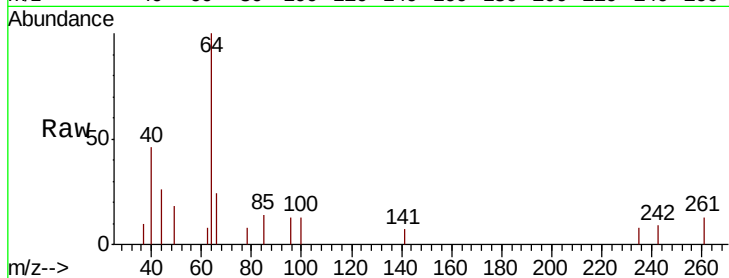
Acq: 5 May 2022 23:55

Tot Ion: 64 Resp: 1761

Ion Ratio Lower Upper

64 100

66 23.9 23.8 35.8



#8

Dichlorotetrafluoroethane

Concen: 0.162 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.00 min

Lab File: VL038986.D

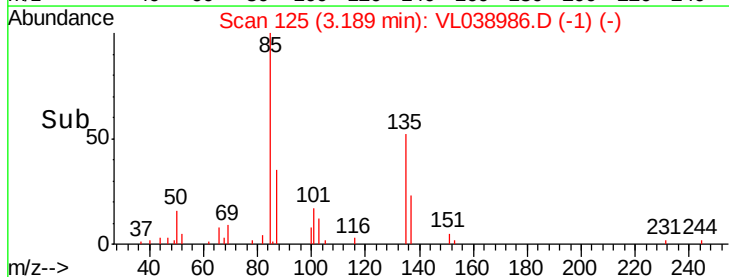
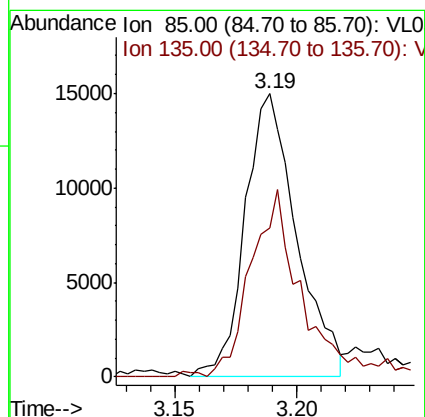
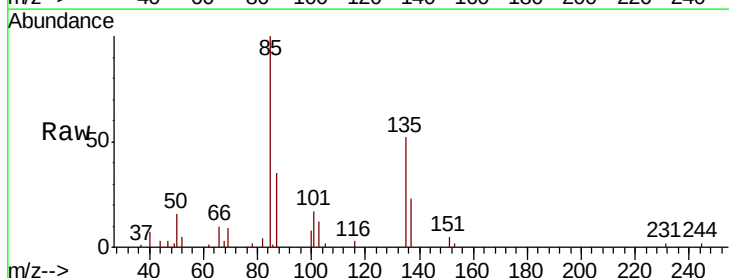
Acq: 5 May 2022 23:55

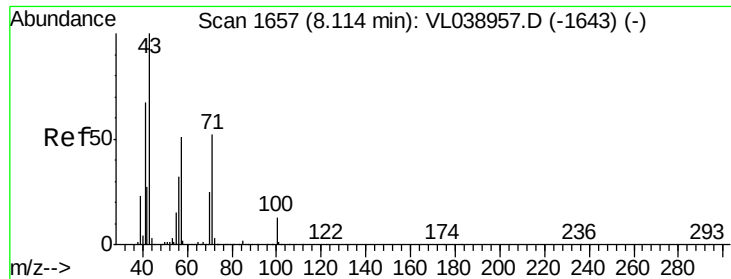
Tgt Ion: 85 Resp: 21947

Ion Ratio Lower Upper

85 100

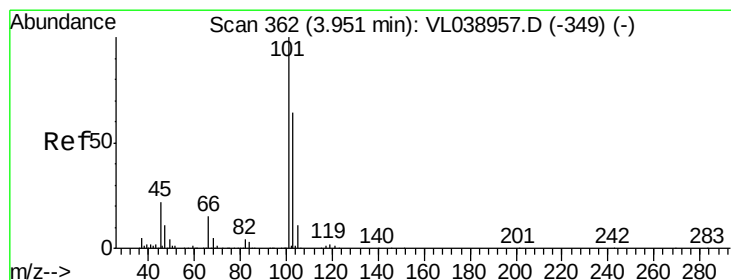
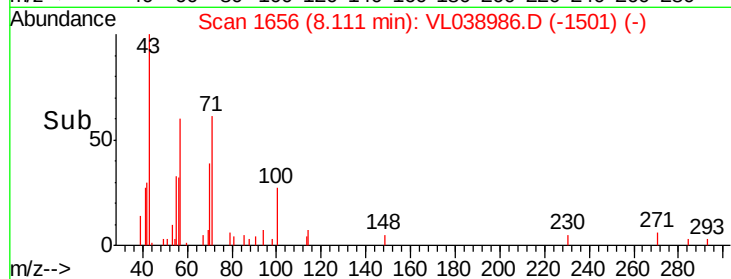
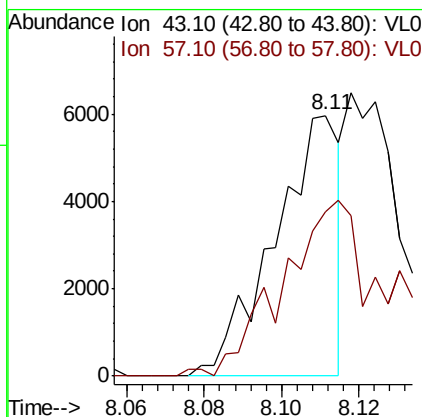
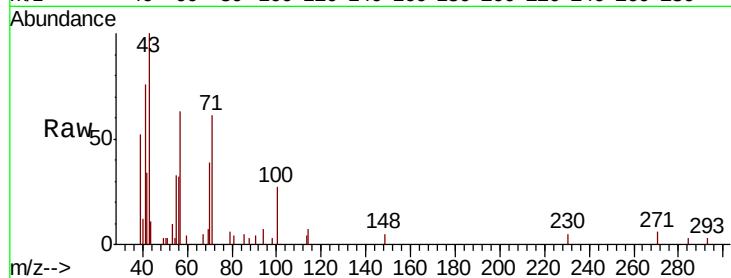
135 68.3 53.6 80.4





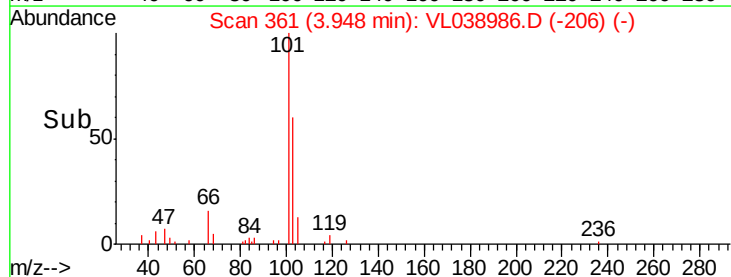
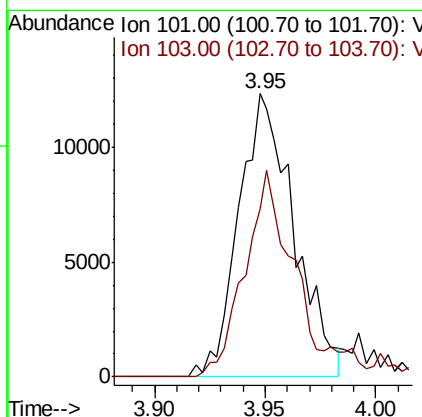
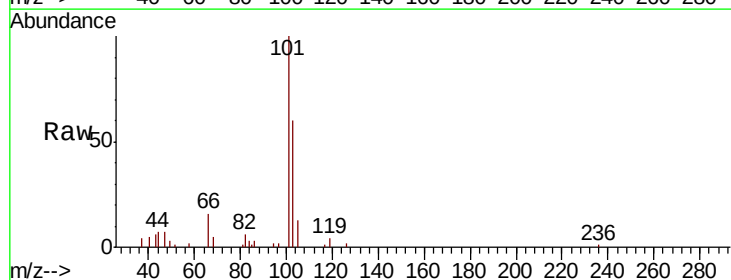
#10
 Heptane
 Concen: 0.055 ppbv
 RT: 8.11 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 5 May 2022 23:55

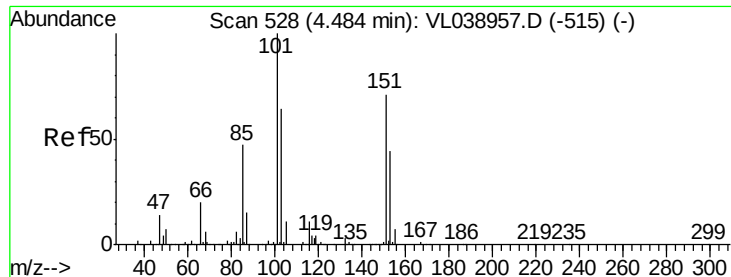
Tot Ion: 43 Resp: 6952
 Ion Ratio Lower Upper
 43 100
 57 126.4 40.5 60.7#



#11
 Trichlorofluoromethane
 Concen: 0.167 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T.: -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion: 101 Resp: 21404
 Ion Ratio Lower Upper
 101 100
 103 59.6 51.5 77.3





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.112 ppbv

RT: 4.48 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

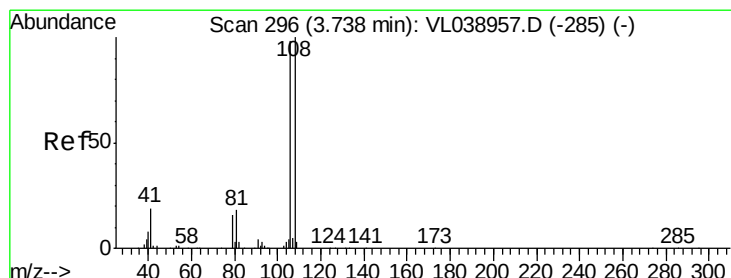
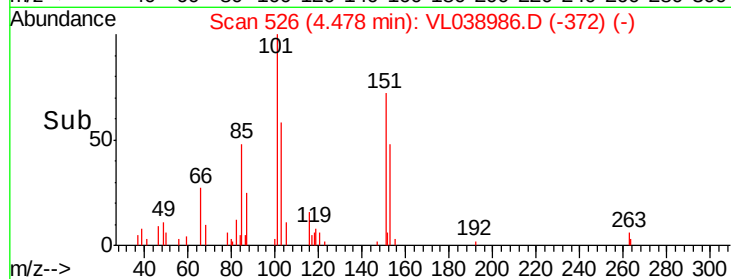
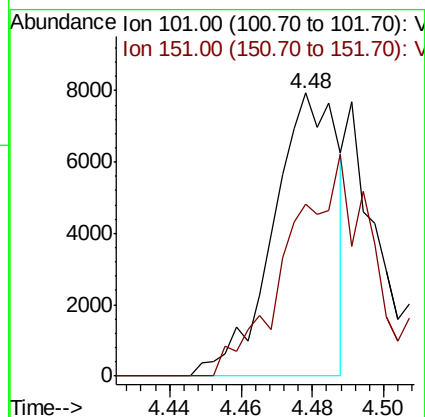
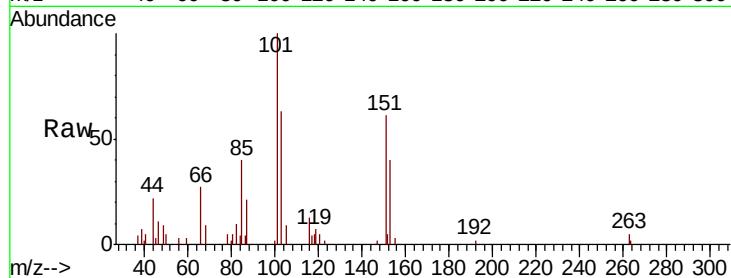
Acq: 5 May 2022 23:55

Tot Ion:101 Resp: 9918

Ion Ratio Lower Upper

101 100

151 0.0 55.4 83.0#



#14

Bromoethene

Concen: 0.057 ppbv

RT: 3.74 min Scan# 298

Delta R.T. 0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

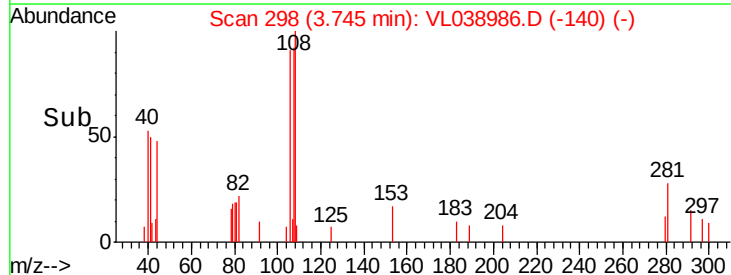
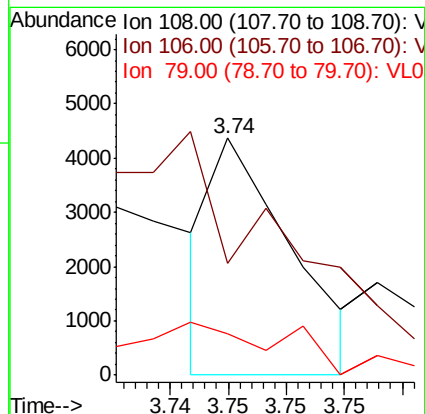
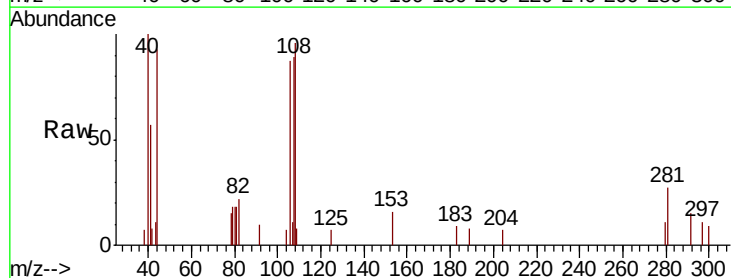
Tgt Ion:108 Resp: 2062

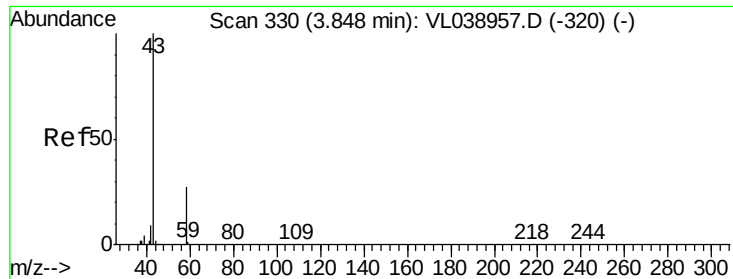
Ion Ratio Lower Upper

108 100

106 371.8 90.3 135.5#

79 75.6 14.9 22.3#





#15

Acetone

Concen: 0.208 ppbv

RT: 3.87 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

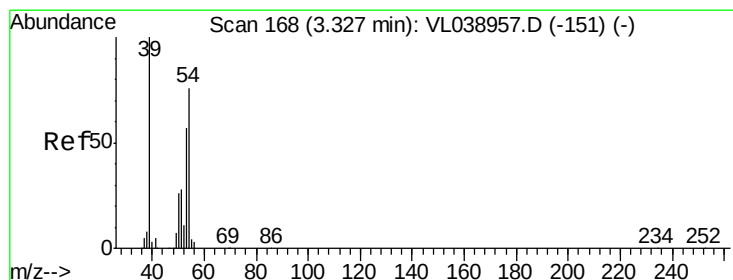
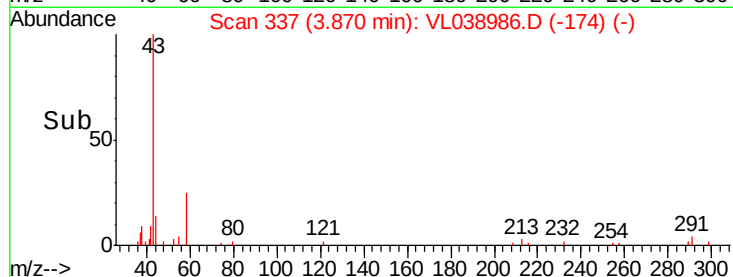
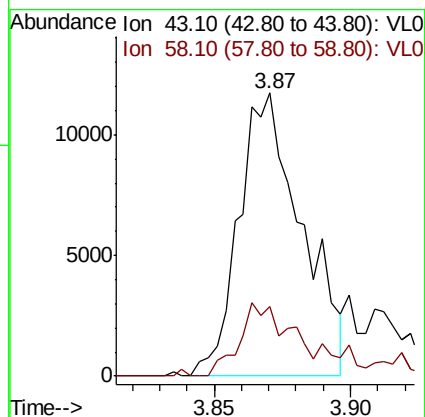
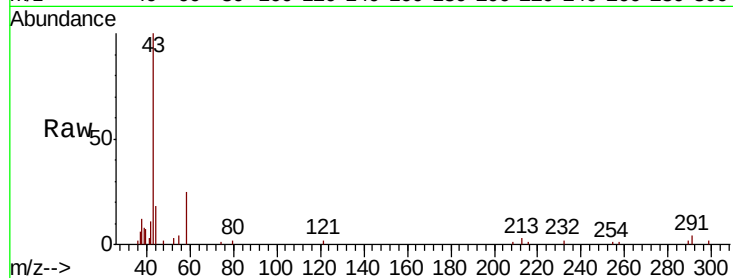
Acq: 5 May 2022 23:55

Tot Ion: 43 Resp: 18733

Ion Ratio Lower Upper

43 100

58 29.5 21.3 31.9



#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL038986.D

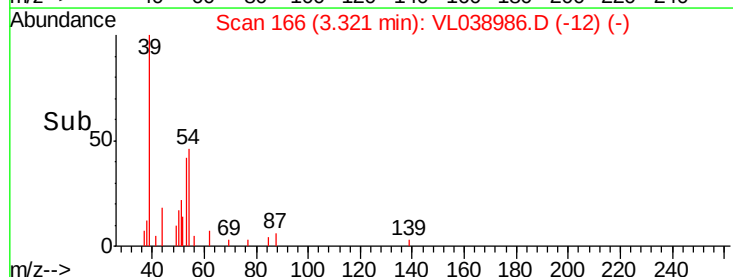
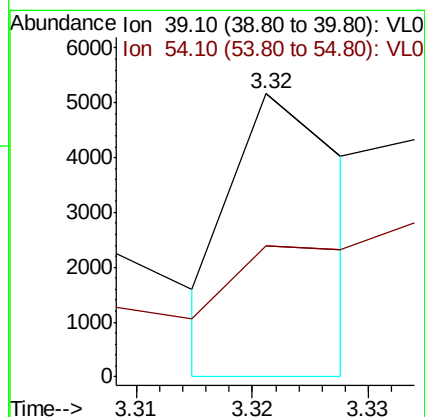
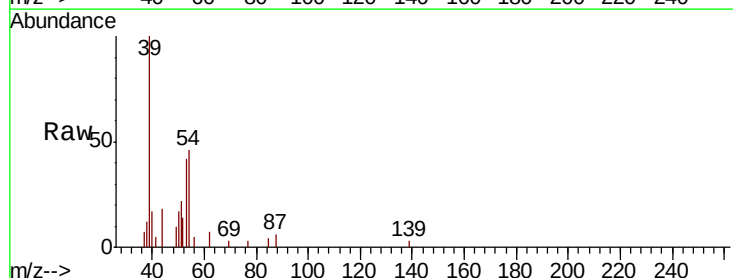
Acq: 5 May 2022 23:55

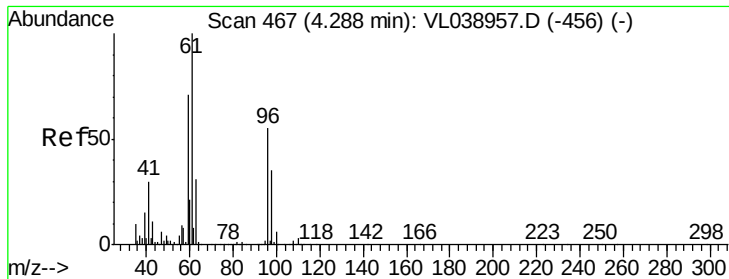
Tgt Ion: 39 Resp: 1774

Ion Ratio Lower Upper

39 100

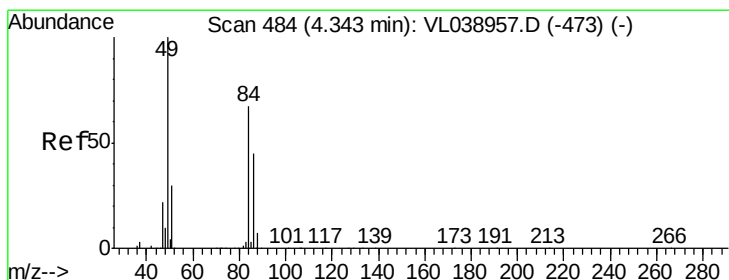
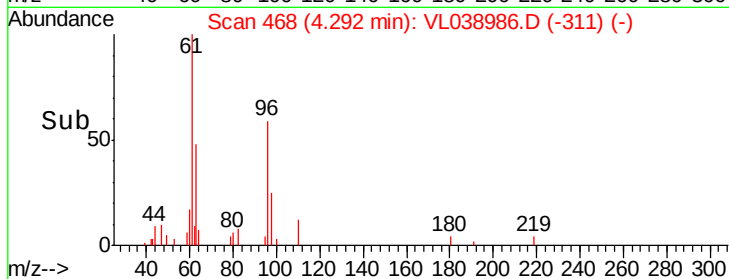
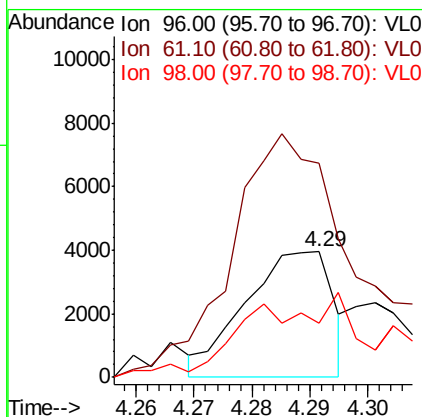
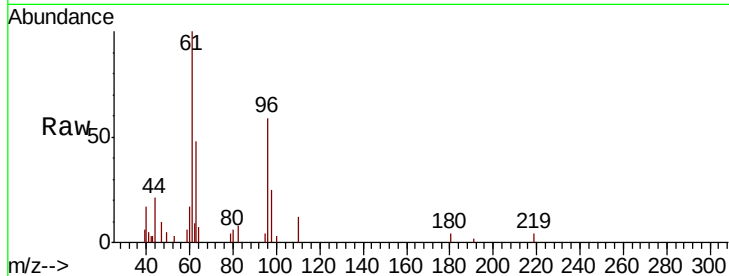
54 0.0 65.2 97.8#





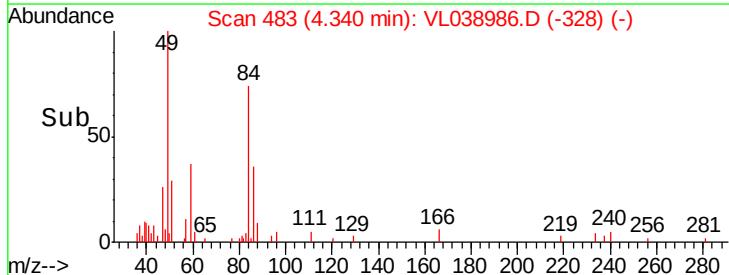
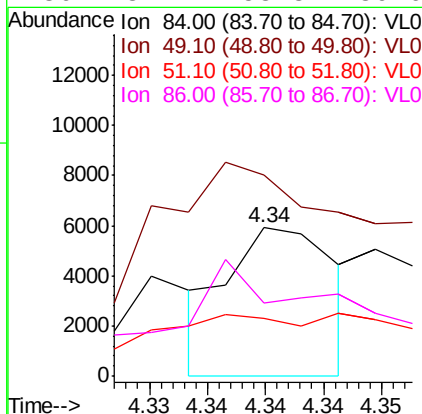
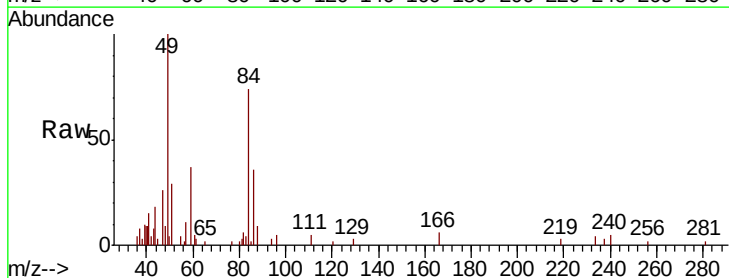
#18
 1,1-Dichloroethene
 Concen: 0.109 ppbv
 RT: 4.29 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 23:55

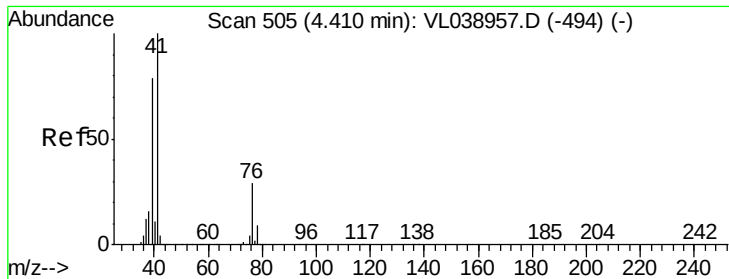
Tot Ion: 96 Resp: 4144
 Ion Ratio Lower Upper
 96 100
 61 171.8 146.3 219.5
 98 47.0 50.6 75.8#



#20
 Methylene Chloride
 Concen: 0.112 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion: 84 Resp: 3792
 Ion Ratio Lower Upper
 84 100
 49 61.3 119.9 179.9#
 51 11.7 35.7 53.5#
 86 37.1 53.8 80.6#





#21

Allvl Chloride

Concen: 0.059 ppbv

RT: 4.41 Instrument:

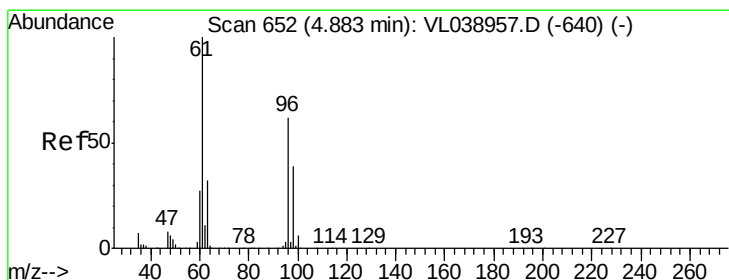
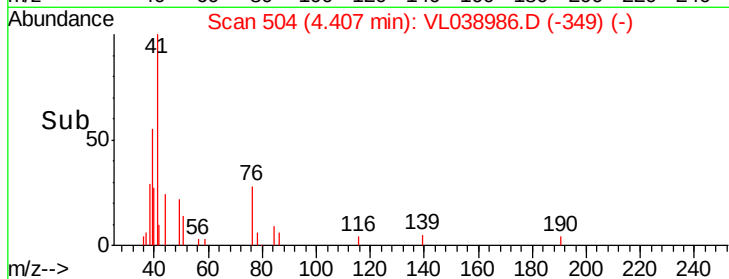
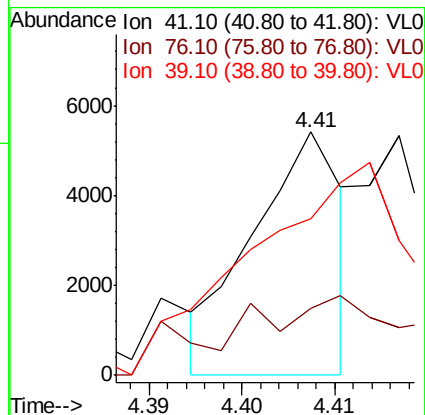
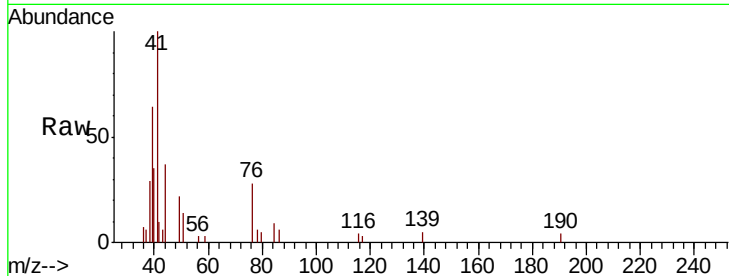
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

Tot Ion: 41 Resp: 3624

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.4#
39	0.0	63.8	95.8#



#22

trans-1,2-Dichloroethene

Concen: 0.052 ppbv

RT: 4.88 min Scan# 652

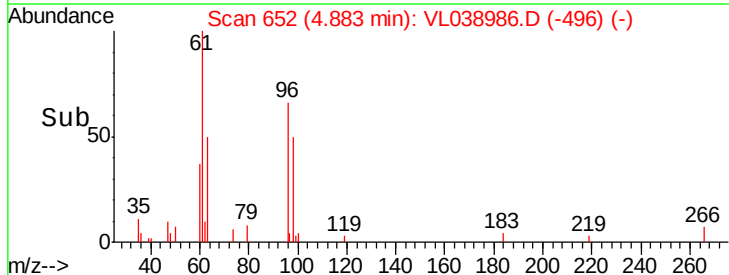
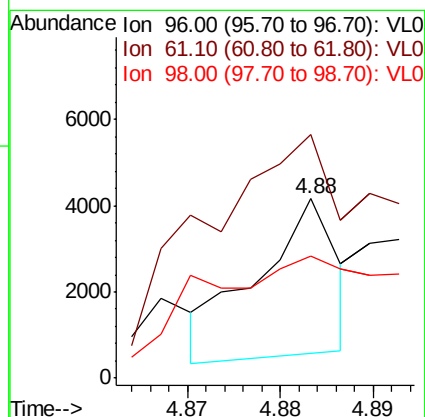
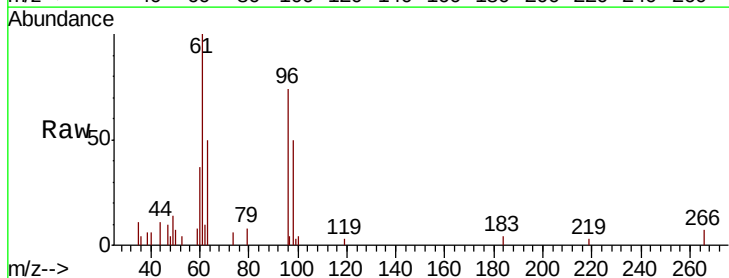
Delta R.T. 0.00 min

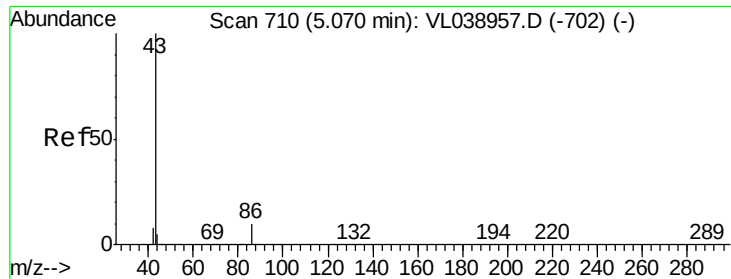
Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion: 96 Resp: 2148

Ion	Ratio	Lower	Upper
96	100		
61	68.4	128.2	192.2#
98	15.3	50.1	75.1#





#23

Vinyl Acetate

Concen: 0.037 ppbv

RT: 5.07 Instrument:

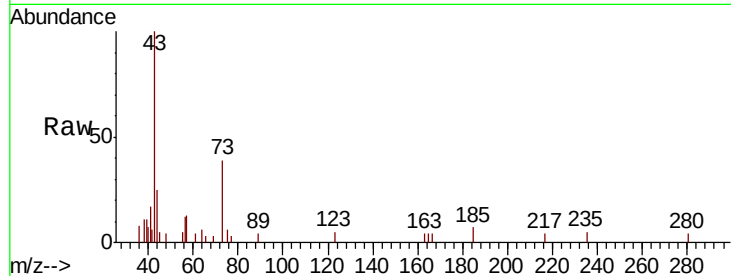
Delta R.T. MSVOA.L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

Tot Ion: 43 Resp: 2651

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	0.0	8.1	12.1#
44	0.0	3.5	5.3#

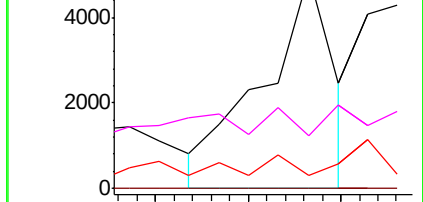


Abundance Ion 43.10 (42.80 to 43.80): VL0

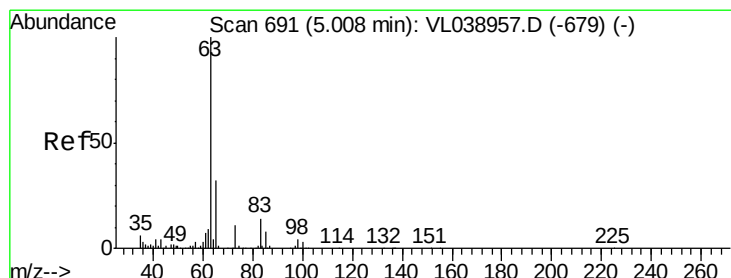
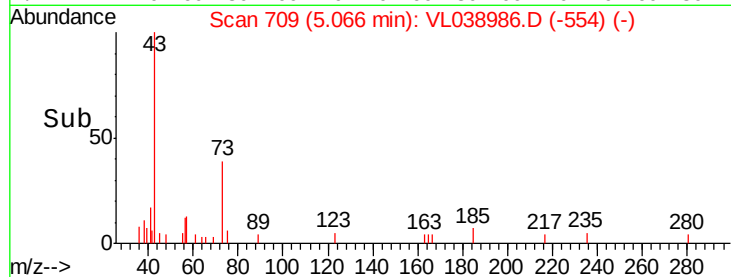
Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



Time-->



#24

1,1-Dichloroethane

Concen: 0.082 ppbv

RT: 5.01 min Scan# 691

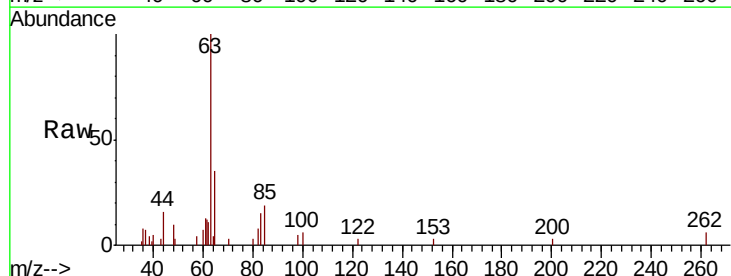
Delta R.T. 0.00 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion: 63 Resp: 6760

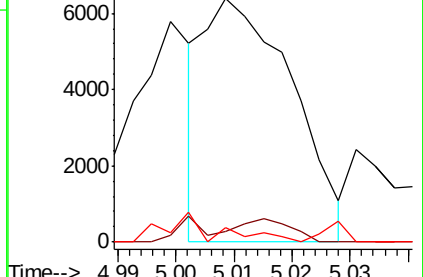
Ion	Ratio	Lower	Upper
63	100		
98	5.5	2.1	6.2
100	0.0	1.4	4.2#



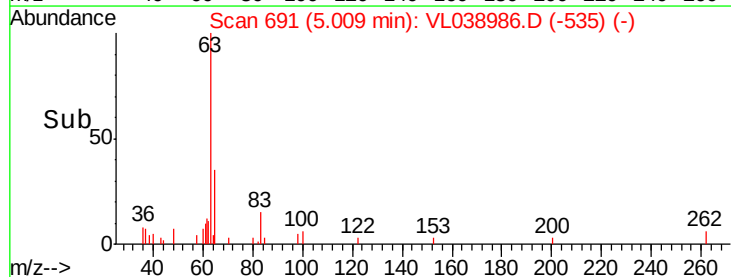
Abundance Ion 63.10 (62.80 to 63.80): VL0

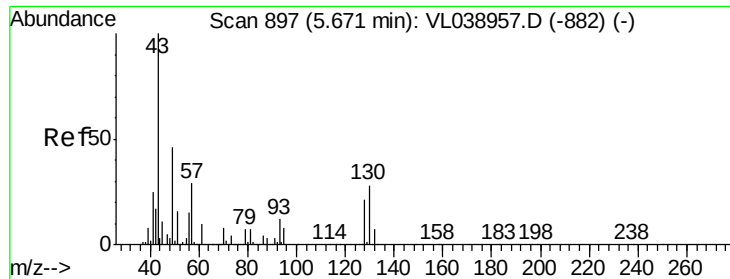
Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



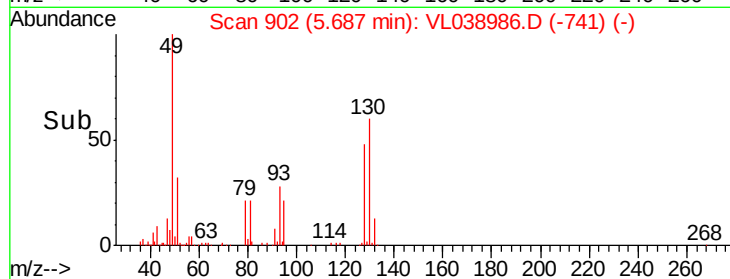
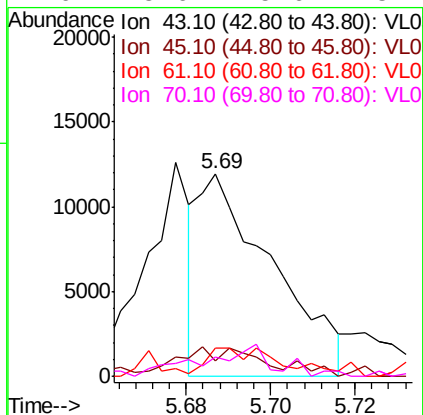
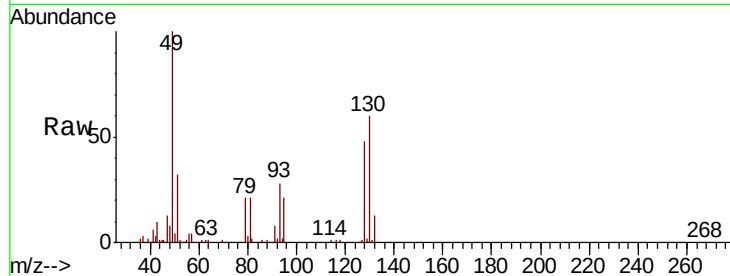
Time-->





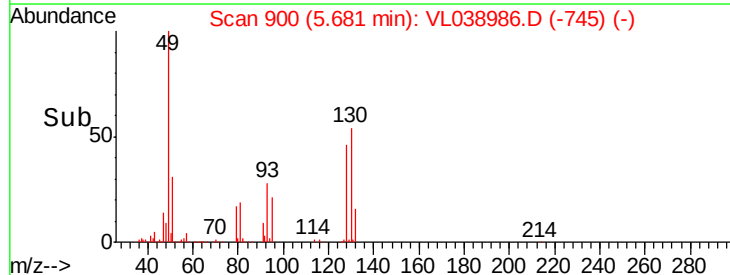
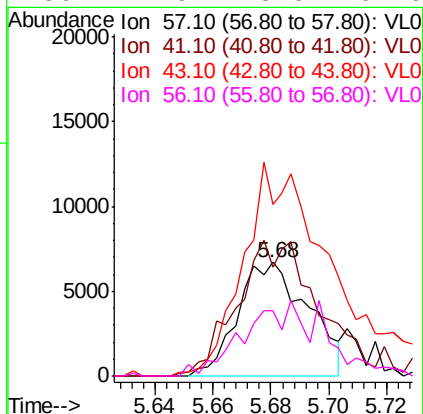
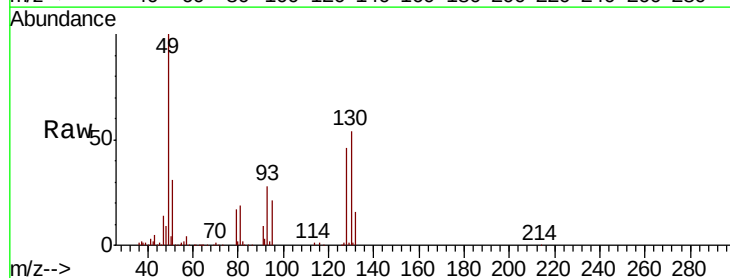
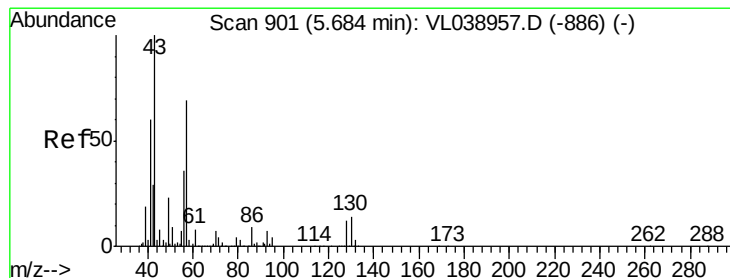
#25
Ethyl Acetate
Concen: 0.068 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 23:55

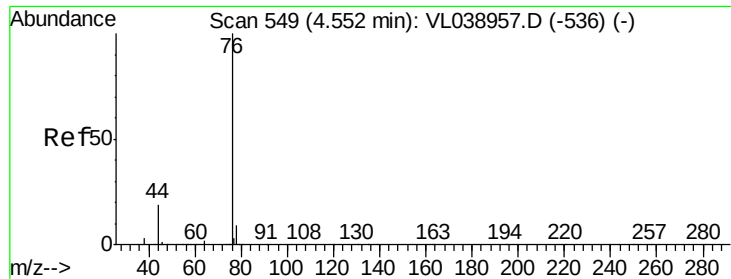
Tot Ion:	43	Resp:	14556
Ion	Ratio	Lower	Upper
43	100		
45	21.7	8.1	12.1#
61	25.4	7.8	11.6#
70	15.6	5.6	8.4#



#26
Hexane
Concen: 0.118 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion:	57	Resp:	11346
Ion	Ratio	Lower	Upper
57	100		
41	150.0	75.2	112.8#
43	240.9	190.8	286.2
56	74.9	43.0	64.6#





#27

Carbon Disulfide

Concen: 0.042 ppbv

RT: 4.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

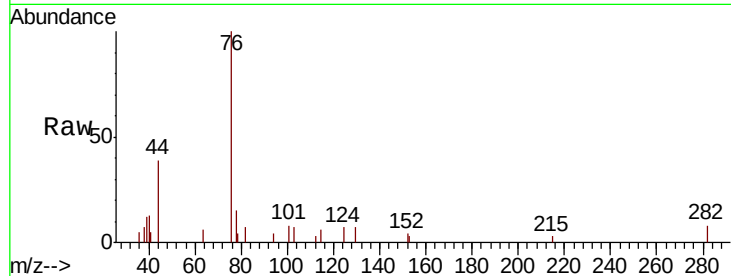
Tot Ion: 76 Resp: 3820

Ion Ratio Lower Upper

76 100

44 0.0 15.3 22.9#

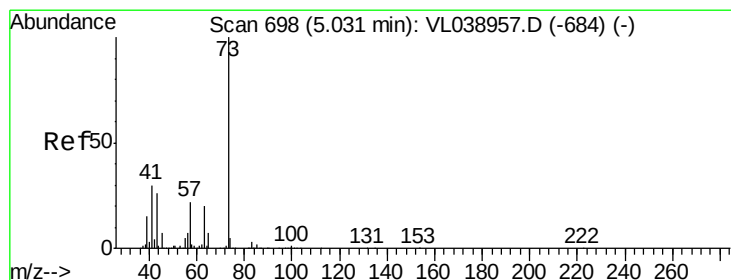
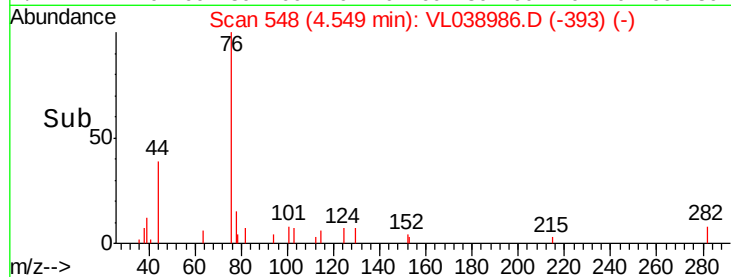
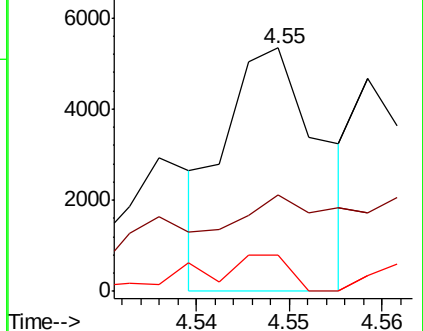
78 26.7 8.2 12.2#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.106 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.02 min

Lab File: VL038986.D

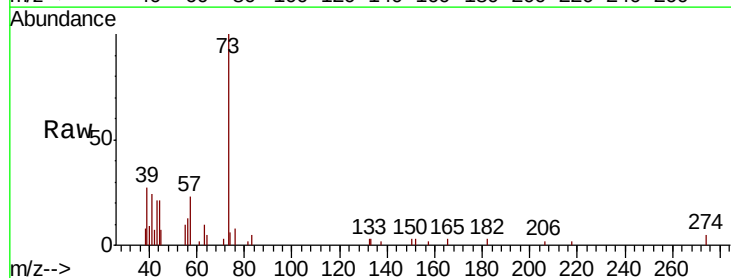
Acq: 5 May 2022 23:55

Tgt Ion: 73 Resp: 7716

Ion Ratio Lower Upper

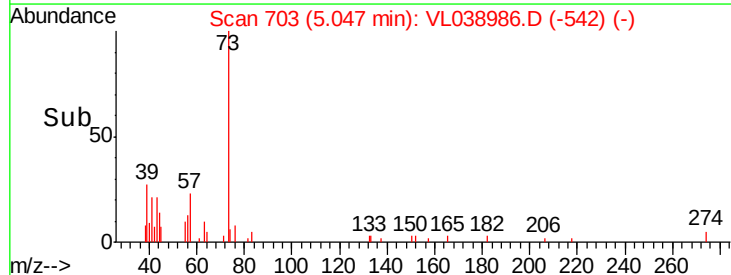
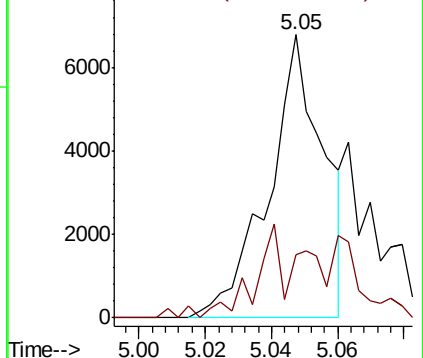
73 100

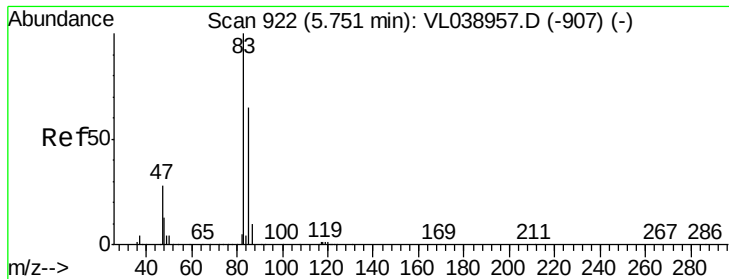
57 45.0 18.8 28.2#



Abundance Ion 73.10 (72.80 to 73.80): VL0

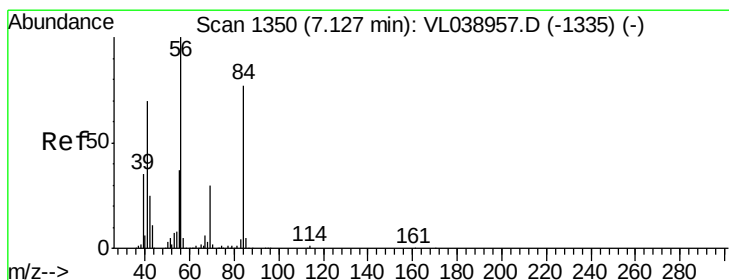
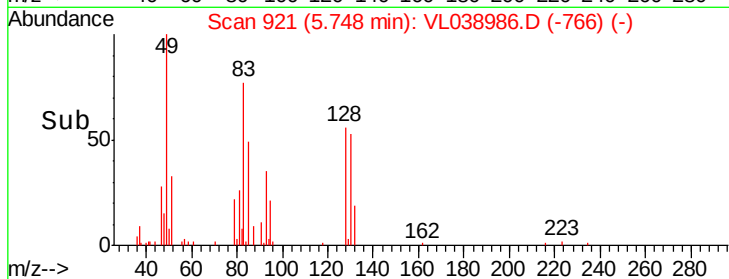
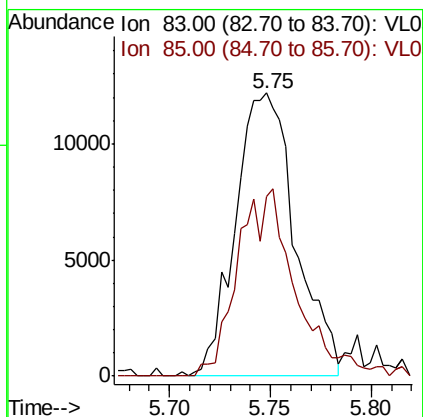
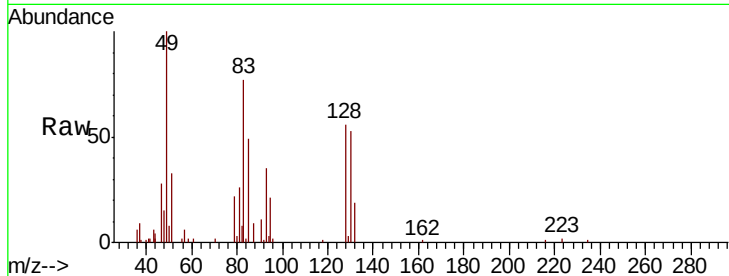
Ion 57.10 (56.80 to 57.80): VL0





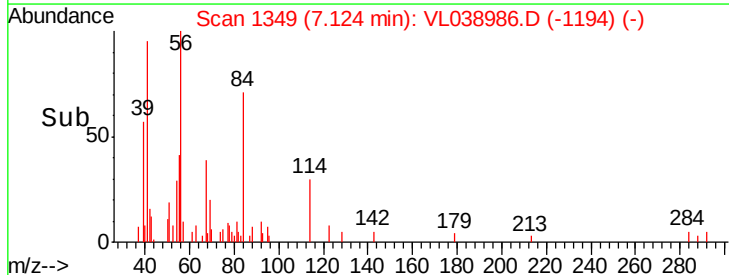
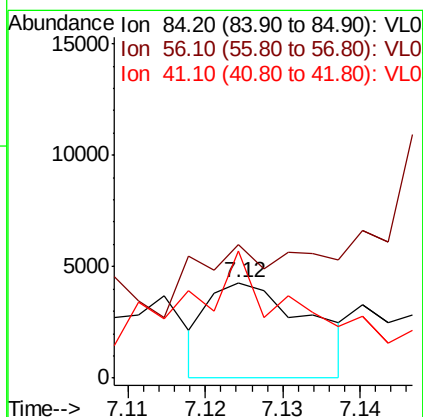
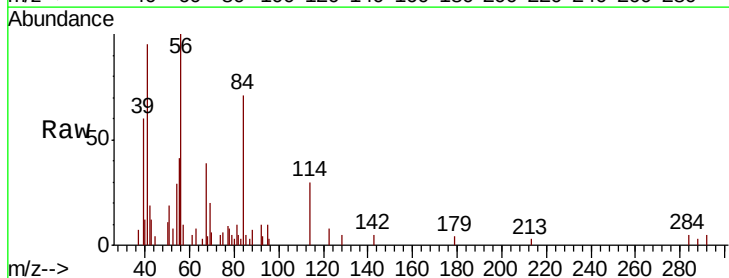
#29
Chloroform
Concen: 0.164 ppbv
RT: 5.75
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 23:55

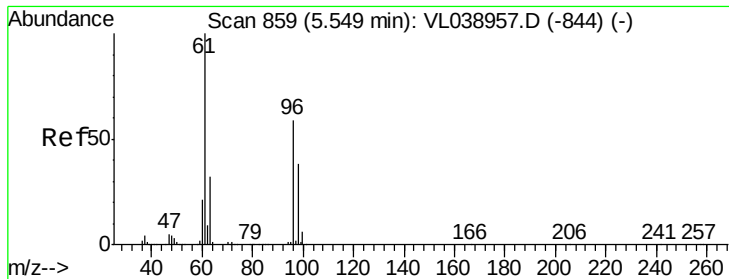
Tot Ion: 83 Resp: 25383
Ion Ratio Lower Upper
83 100
85 63.6 51.8 77.6



#30
Cyclohexane
Concen: 0.048 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

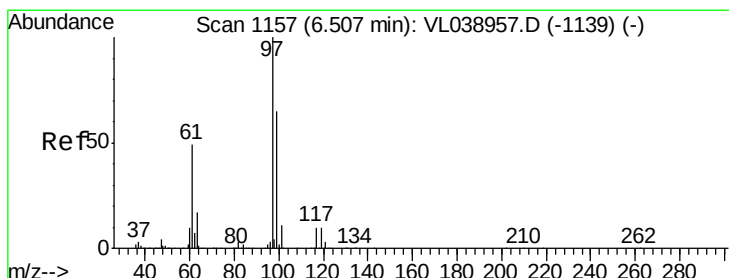
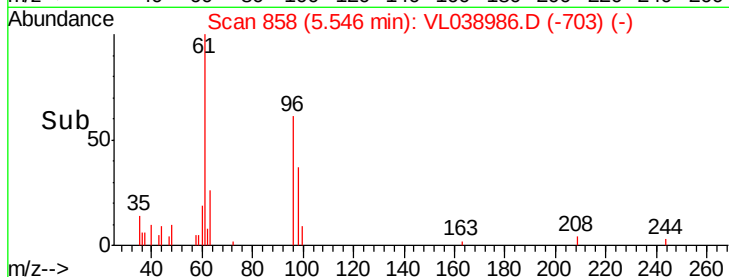
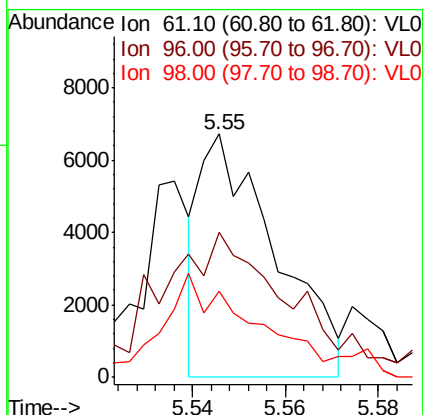
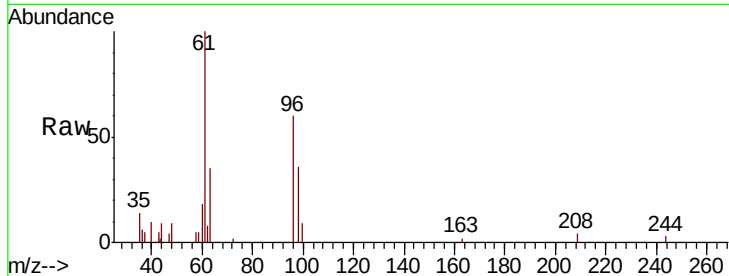
Tgt Ion: 84 Resp: 3858
Ion Ratio Lower Upper
84 100
56 0.0 115.3 172.9#
41 263.7 72.0 108.0#





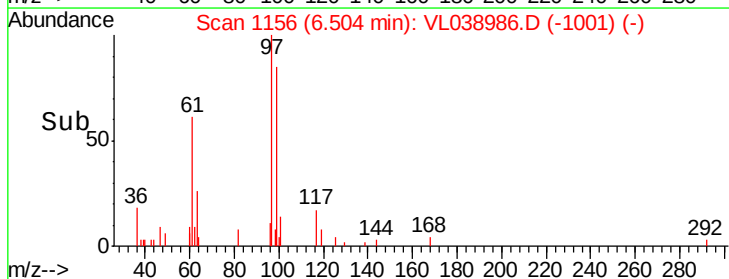
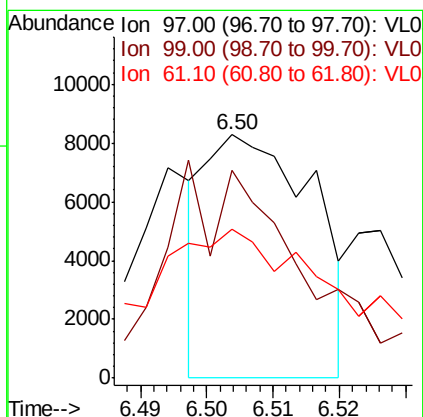
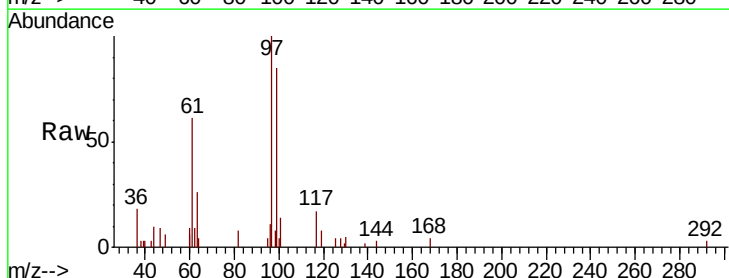
#31
 cis-1,2-Dichloroethene
 Concen: 0.077 ppbv
 RT: 5.55 Instrument :
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 5 May 2022 23:55

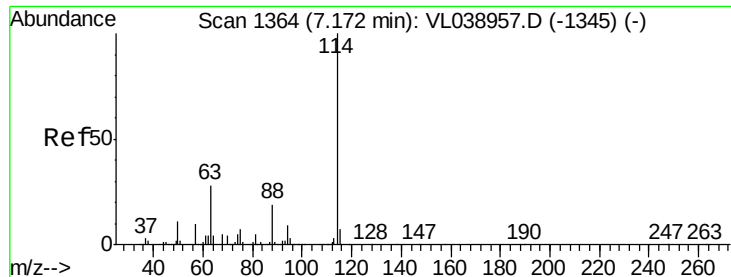
Tot Ion: 61 Resp: 7560
 Ion Ratio Lower Upper
 61 100
 96 57.8 47.4 71.0
 98 32.2 30.6 45.8



#32
 1,1,1-Trichloroethane
 Concen: 0.060 ppbv
 RT: 6.50 min Scan# 1156
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

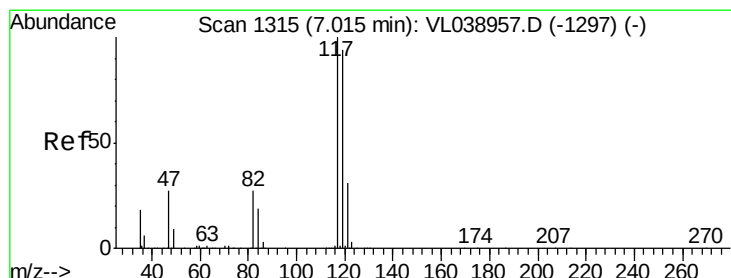
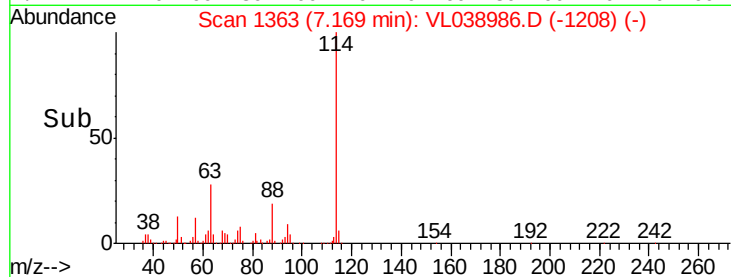
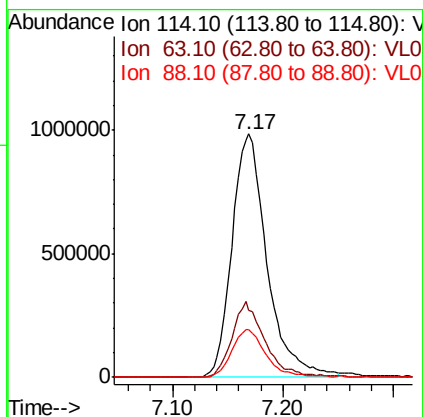
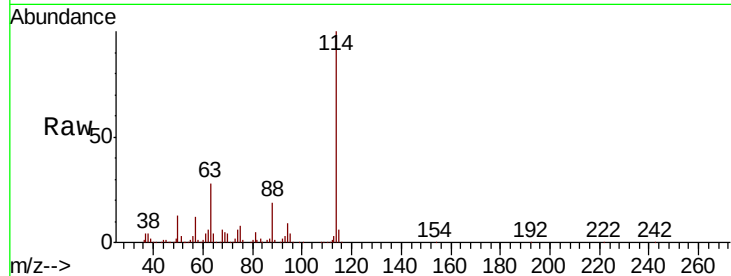
Tgt Ion: 97 Resp: 9317
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.9 77.9#
 61 122.8 40.9 61.3#





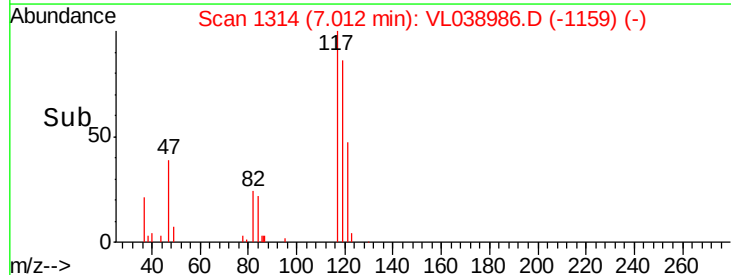
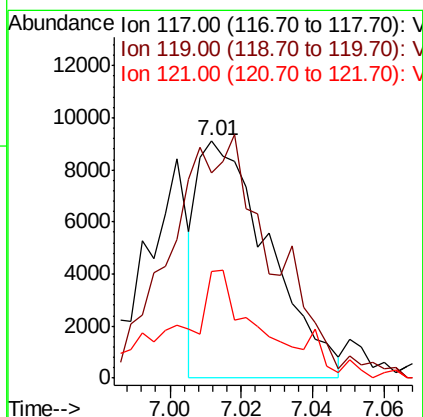
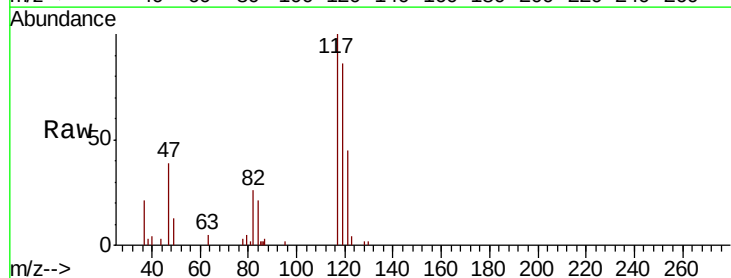
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 23:55

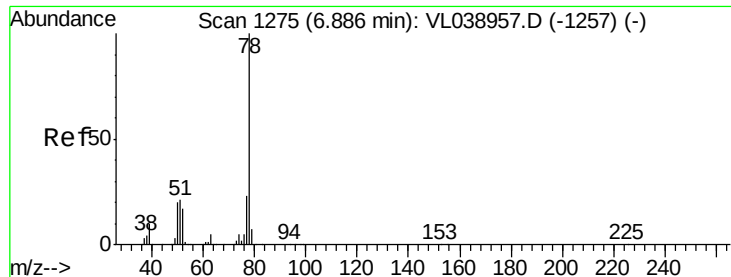
Tot Ion:	114	Resp:	2164977
Ion	Ratio	Lower	Upper
114	100		
63	29.7	22.6	33.8
88	19.5	15.4	23.0



#35
 Carbon Tetrachloride
 Concen: 0.089 ppbv
 RT: 7.01 min Scan# 1314
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

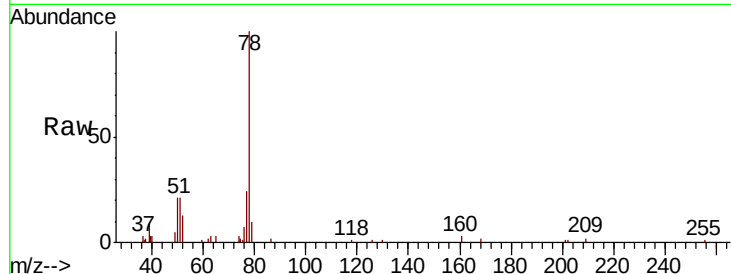
Tgt Ion:	117	Resp:	12642
Ion	Ratio	Lower	Upper
117	100		
119	90.4	75.2	112.8
121	46.9	24.6	37.0#



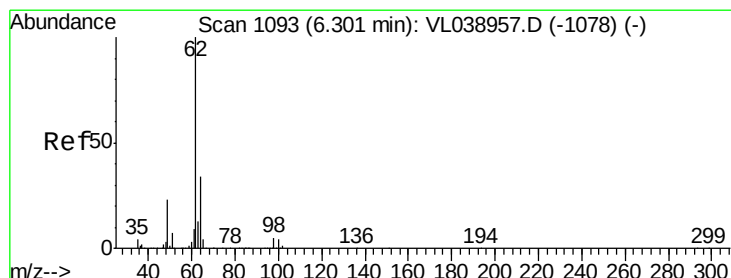
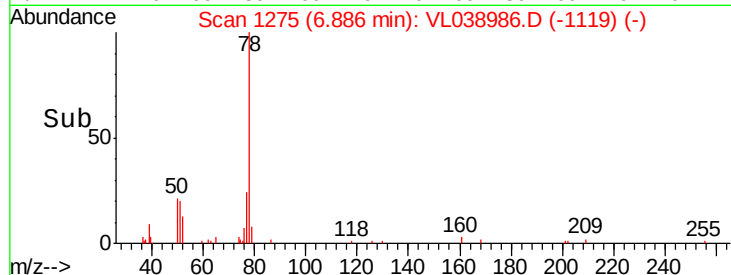
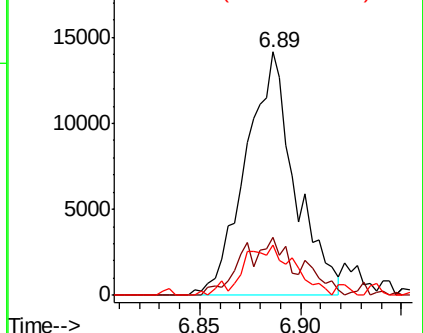


#36
Benzene
Concen: 0.130 ppbv
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 23:55

Tot Ion	78	Resp	24007
Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0
50	20.7	15.6	23.4

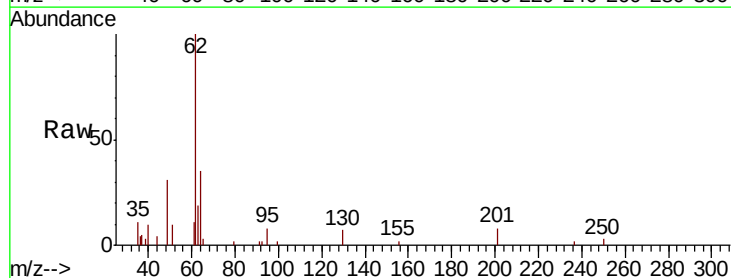


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

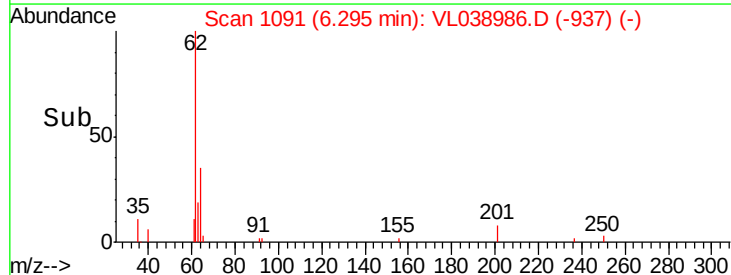
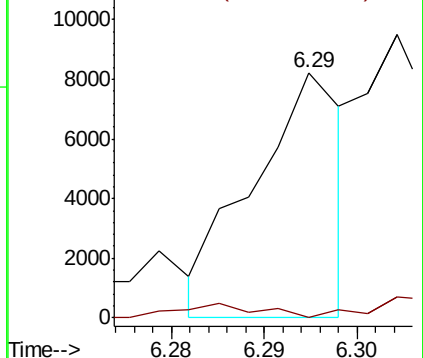


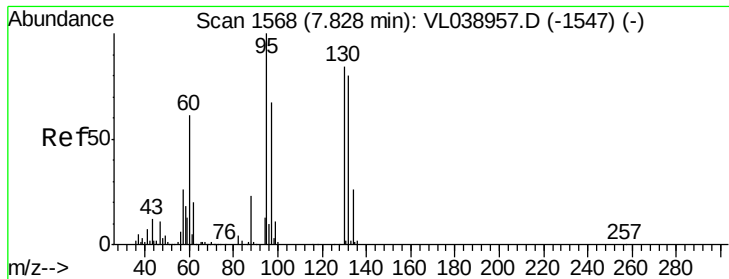
#37
1,2-Dichloroethane
Concen: 0.048 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion	62	Resp	5546
Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.5	6.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.070 ppbv

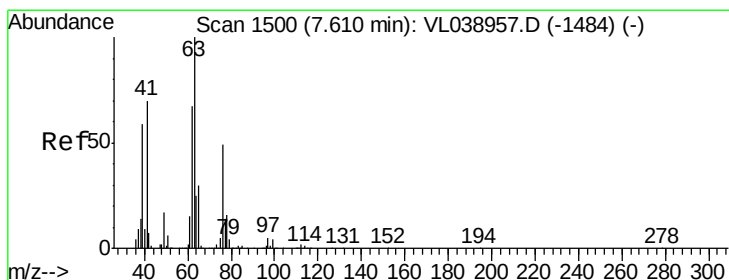
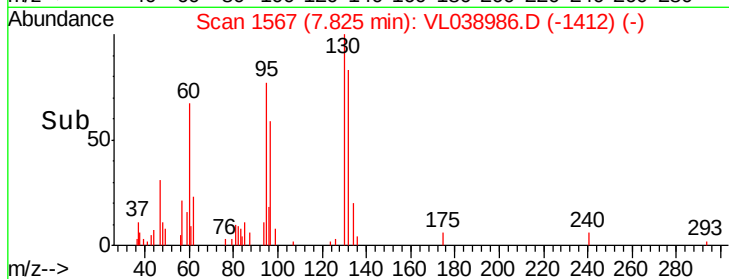
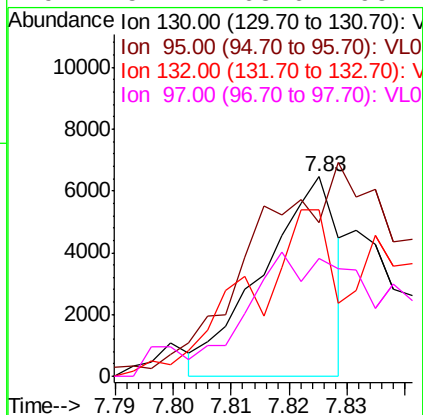
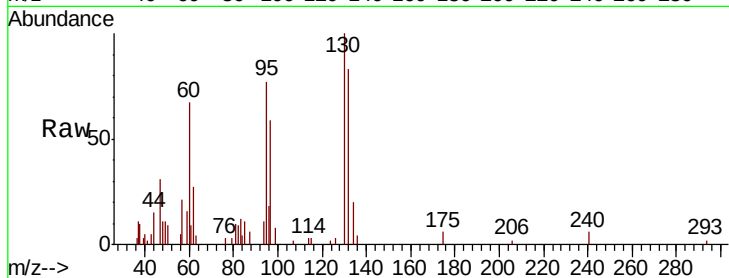
RT: 7.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

Tot Ion:	130	Resp:	5774
Ion	Ratio	Lower	Upper
130	100		
95	67.9	94.8	142.2#
132	79.2	75.8	113.8
97	57.2	63.6	95.4#



#39

1,2-Dichloropropane

Concen: 0.291 ppbv

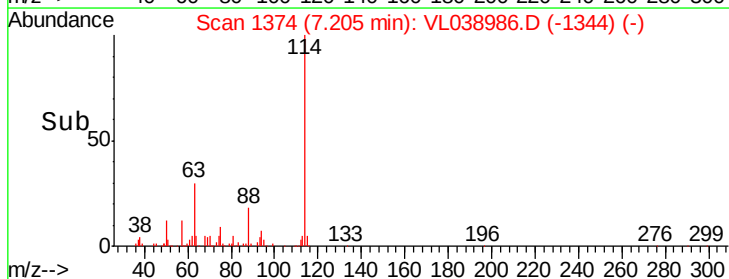
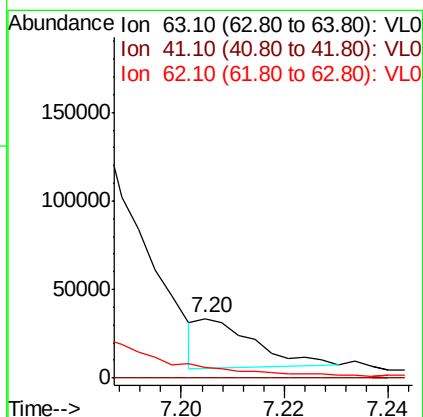
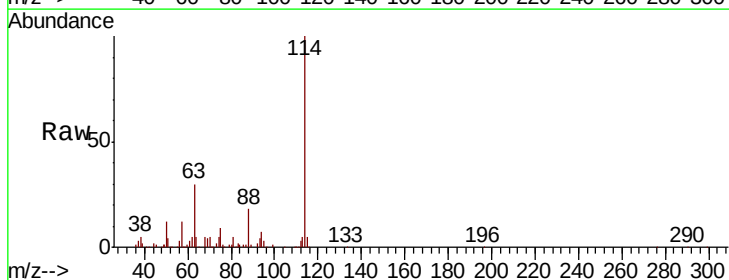
RT: 7.20 min Scan# 1374

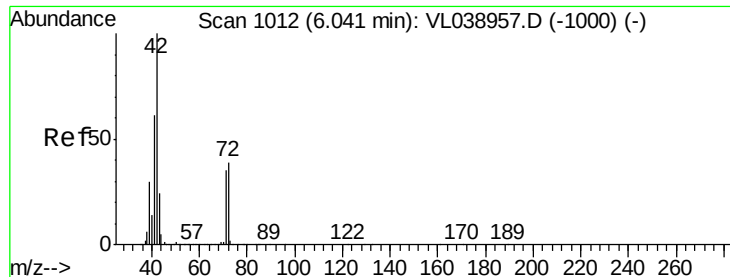
Delta R.T. -0.41 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion:	63	Resp:	20982
Ion	Ratio	Lower	Upper
63	100		
41	0.9	55.9	83.9#
62	16.2	53.8	80.6#





#41

Tetrahydrofuran

Concen: 0.040 ppbv

RT: 6.08 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

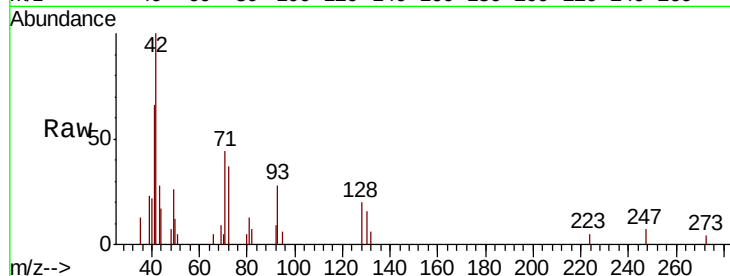
Tot Ion: 42 Resp: 2971

Ion Ratio Lower Upper

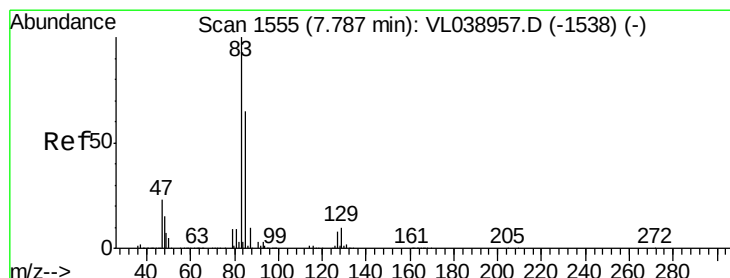
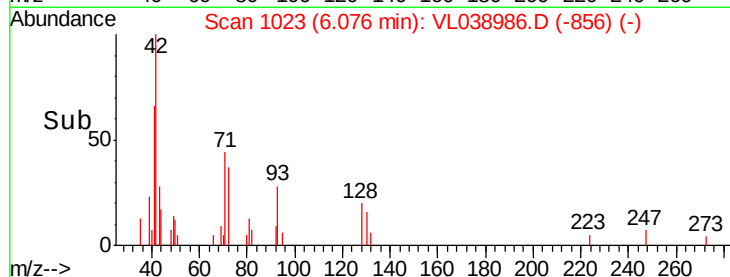
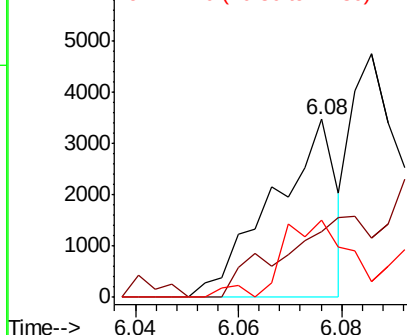
42 100

72 0.0 31.8 47.6#

71 84.7 30.6 45.8#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.060 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. 0.00 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

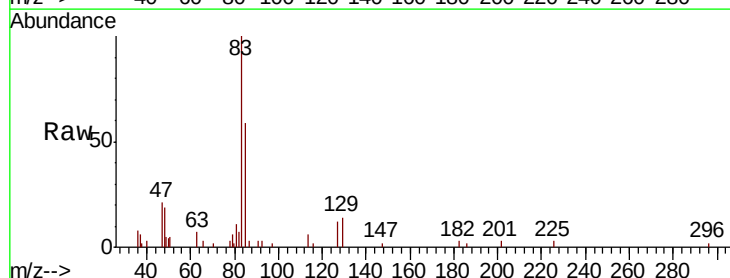
Tgt Ion: 83 Resp: 9380

Ion Ratio Lower Upper

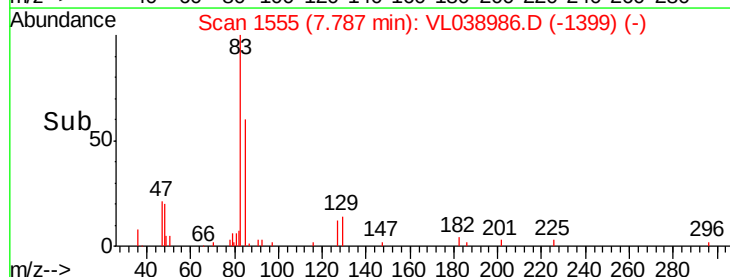
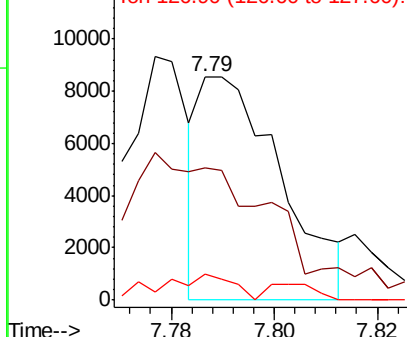
83 100

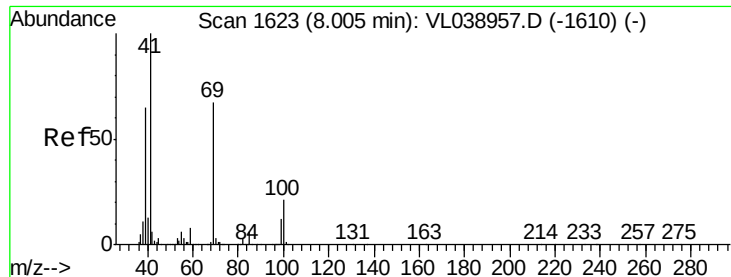
85 60.2 52.0 78.0

127 15.9 6.0 9.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.034 ppbv

RT: 8.01

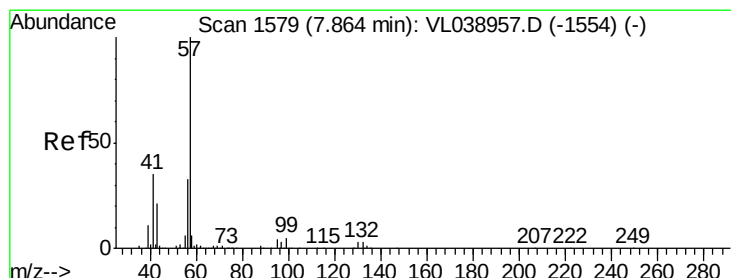
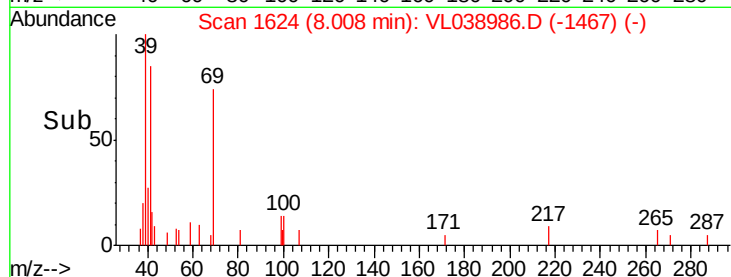
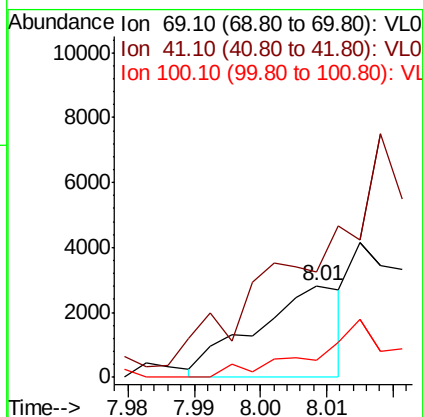
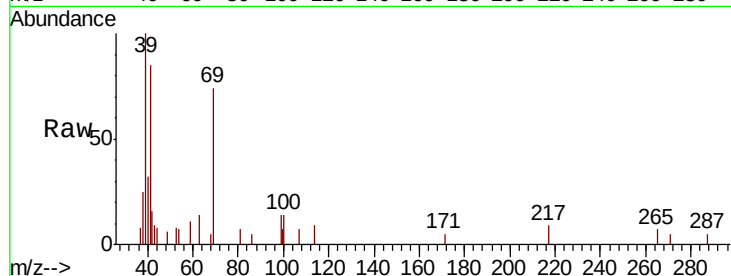
Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	121.9	182.9#
100	0.0	24.6	36.8#



#44

2,2,4-Trimethylpentane

Concen: 0.066 ppbv

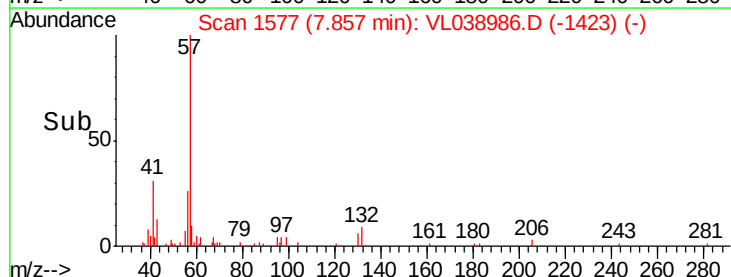
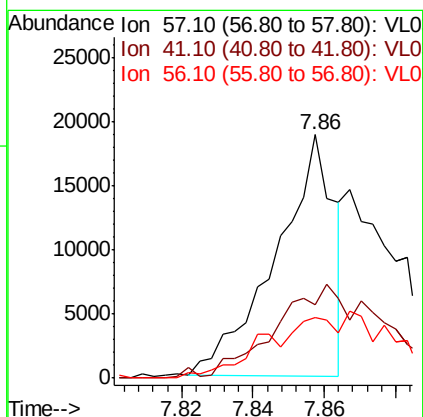
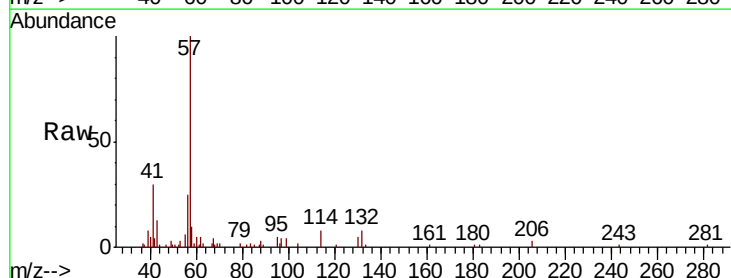
RT: 7.86 min Scan# 1577

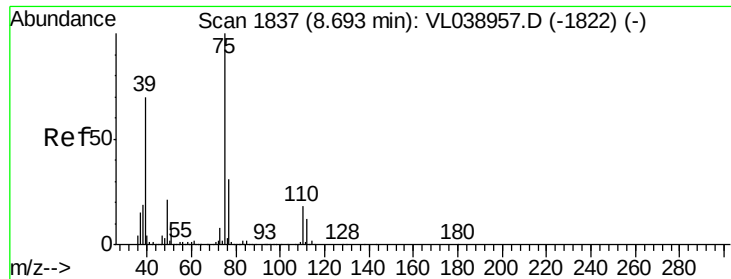
Delta R.T. -0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

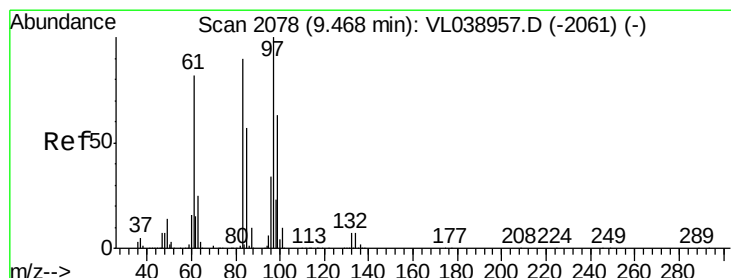
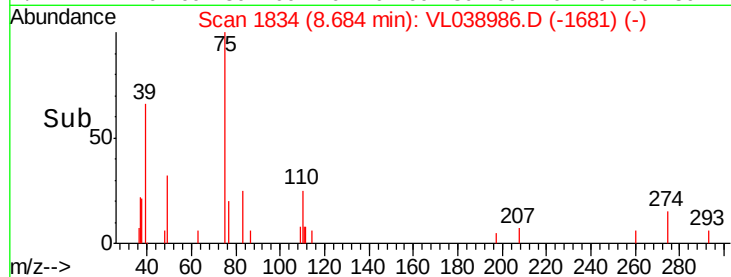
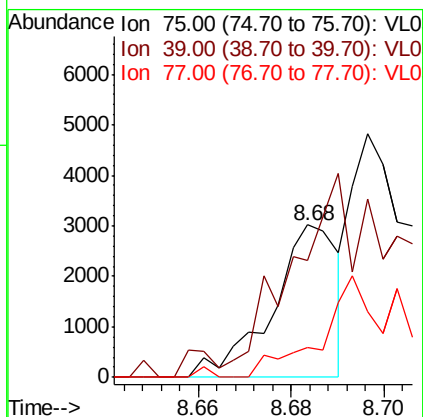
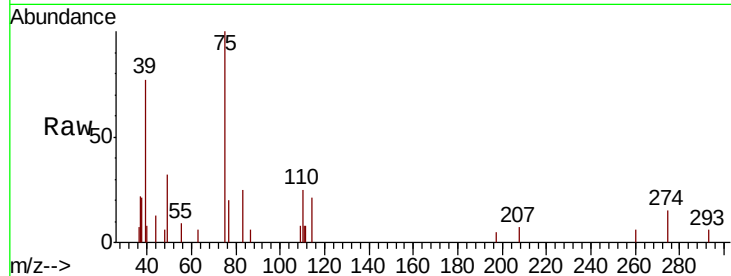
Tgt Ion	Ratio	Lower	Upper
57	100		
41	78.0	26.3	39.5#
56	0.0	24.6	37.0#





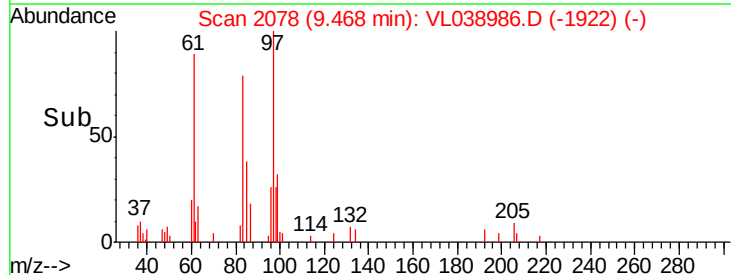
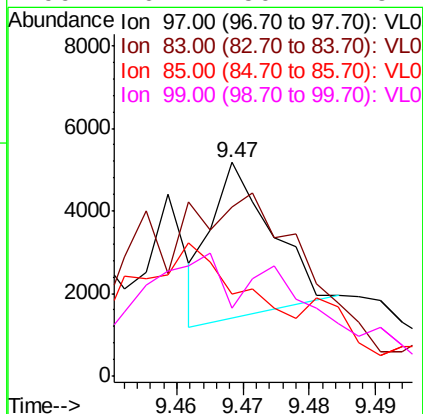
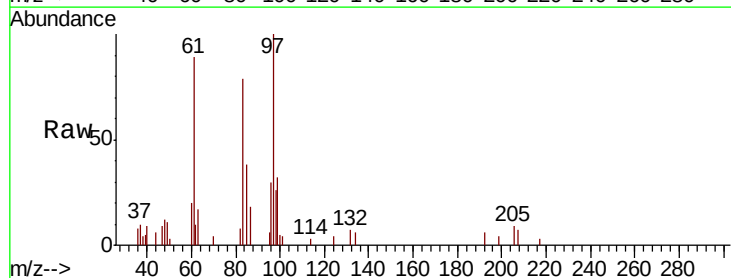
#46
 cis-1,3-Dichloropropene
 Concen: 0.031 ppbv
 RT: 8.68 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 23:55

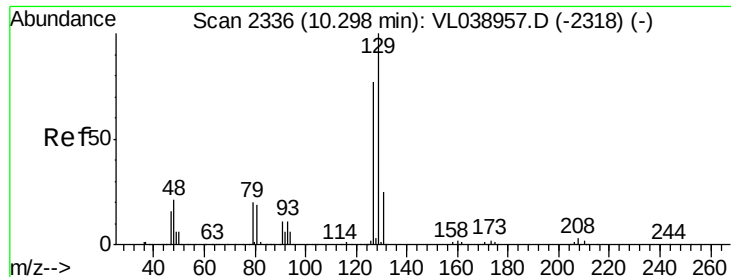
Tot Ion	Ratio	Lower	Upper
75	100		
39	58.8	55.8	83.6
77	19.5	24.8	37.2#



#47
 1,1,2-Trichloroethane
 Concen: 0.032 ppbv
 RT: 9.47 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

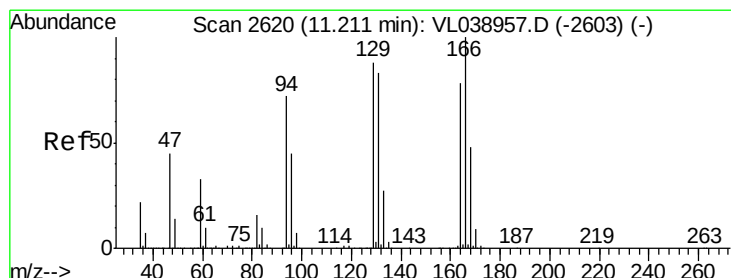
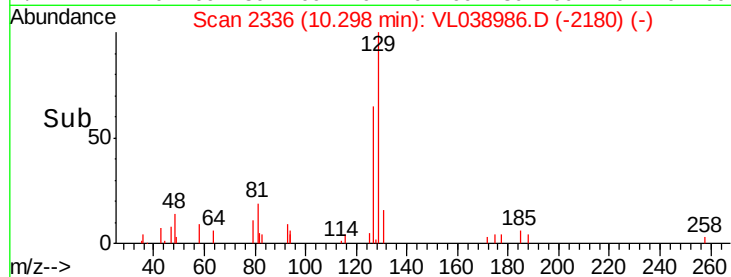
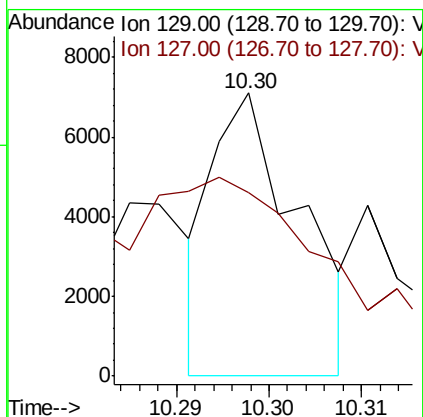
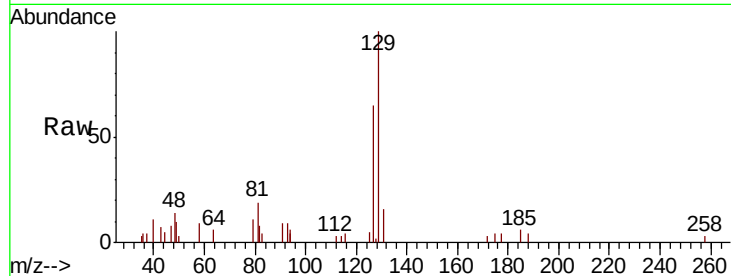
Tgt Ion	Ratio	Lower	Upper
97	100		
83	72.2	72.0	108.0
85	9.4	45.7	68.5#
99	20.2	50.2	75.4#





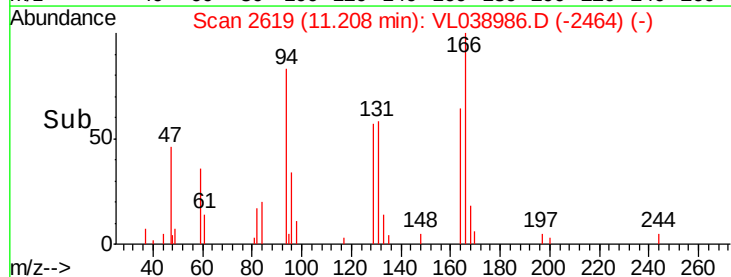
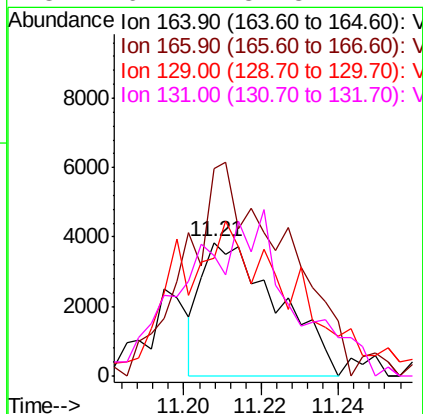
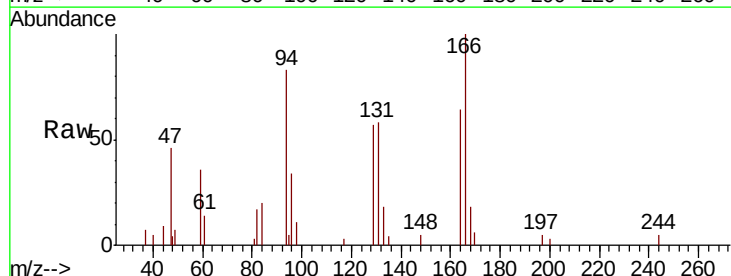
#48
 Dibromochloromethane
 Concen: 0.038 ppbv
 RT: 10.30 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 5 May 2022 23:55

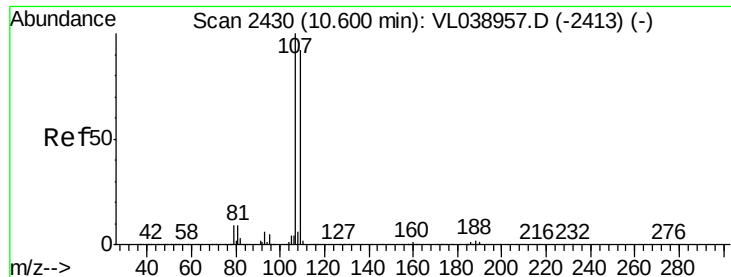
Tot Ion:129 Resp: 4617
 Ion Ratio Lower Upper
 129 100
 127 243.8 39.3 117.9#



#52
 Tetrachloroethene
 Concen: 0.080 ppbv
 RT: 11.21 min Scan# 2619
 Delta R.T.: -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

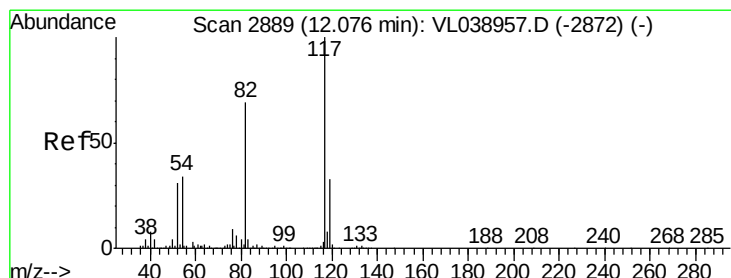
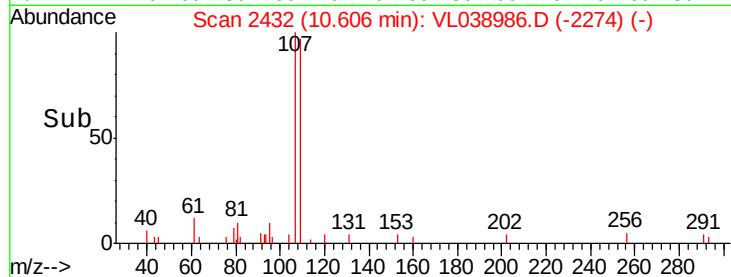
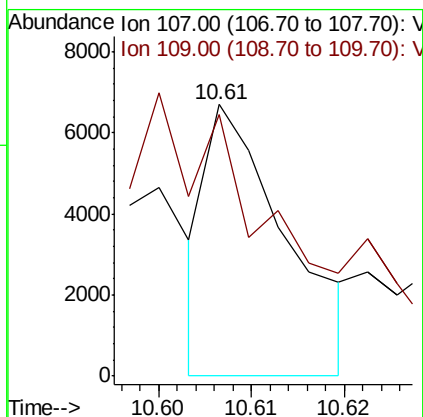
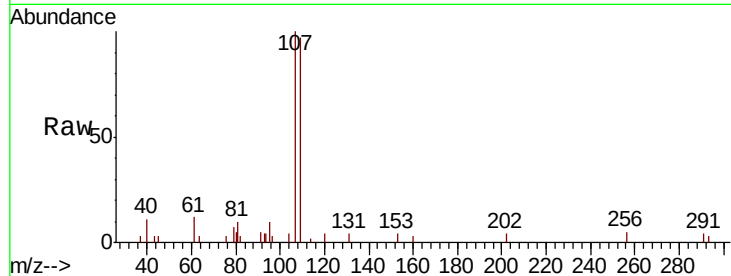
Tgt Ion:164 Resp: 5265
 Ion Ratio Lower Upper
 164 100
 166 114.2 102.5 153.7
 129 58.4 90.1 135.1#
 131 61.7 84.8 127.2#





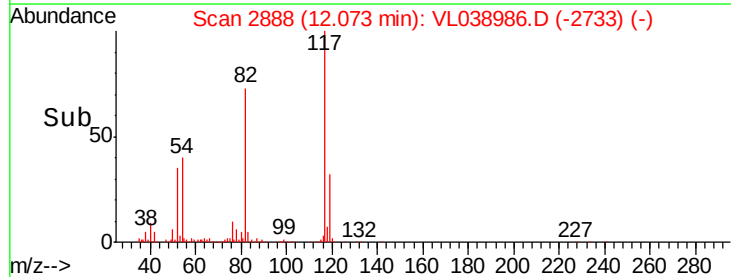
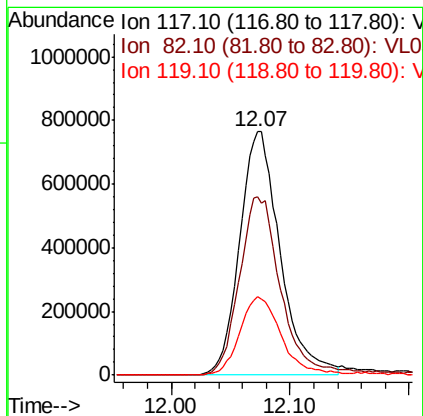
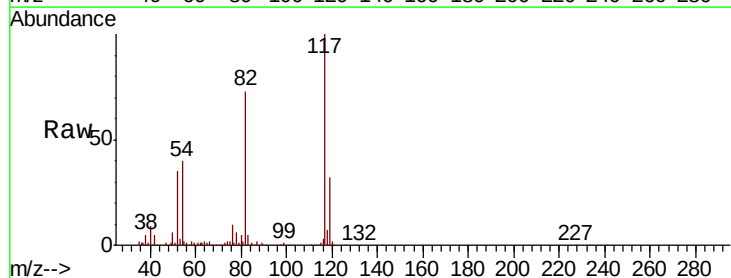
#54
 1,2-Dibromoethane
 Concen: 0.039 ppbv
 RT: 10.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 23:55

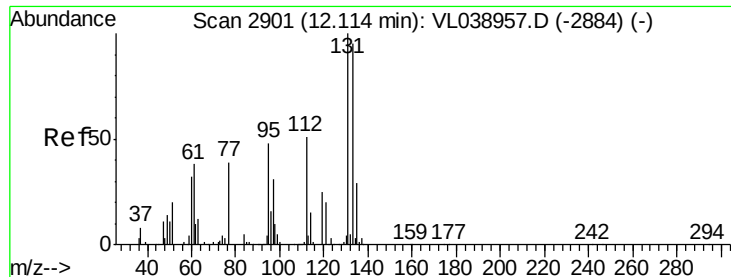
Tot Ion:107 Resp: 4020
 Ion Ratio Lower Upper
 107 100
 109 89.5 73.8 110.8



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2888
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

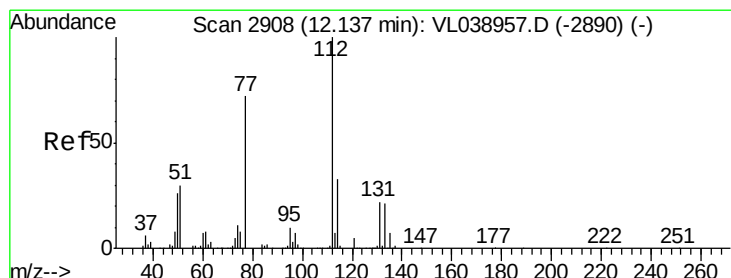
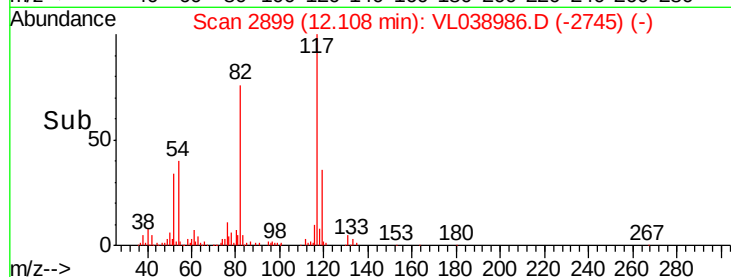
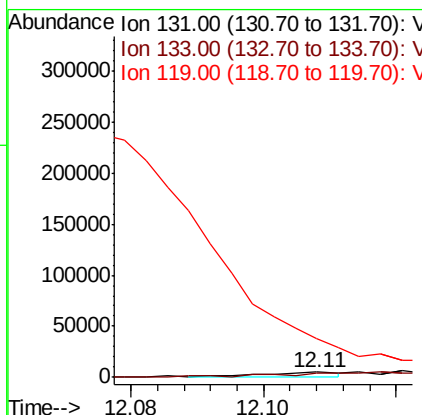
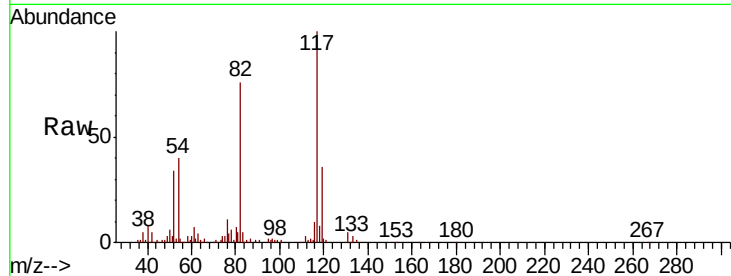
Tgt Ion:117 Resp: 1804301
 Ion Ratio Lower Upper
 117 100
 82 76.8 57.0 85.6
 119 33.9 27.2 40.8





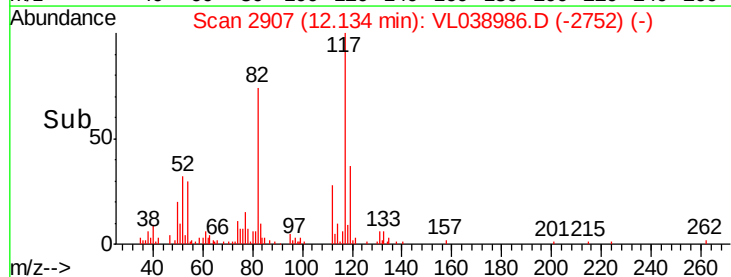
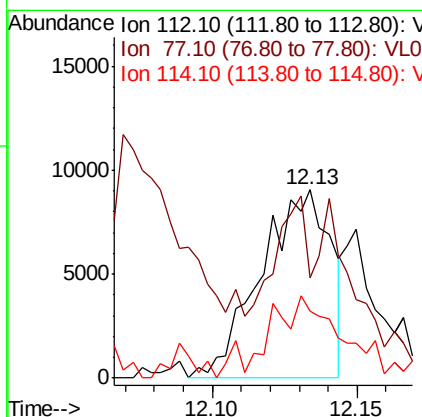
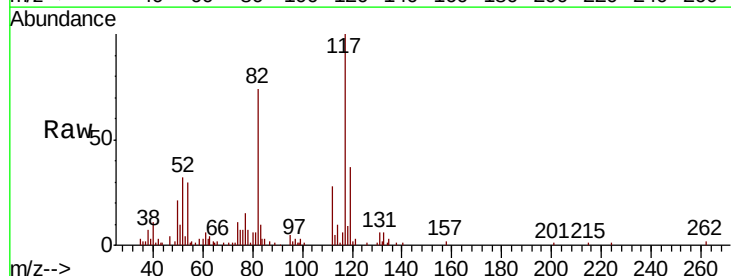
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.052 ppbv
 RT: 12.11 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 23:55

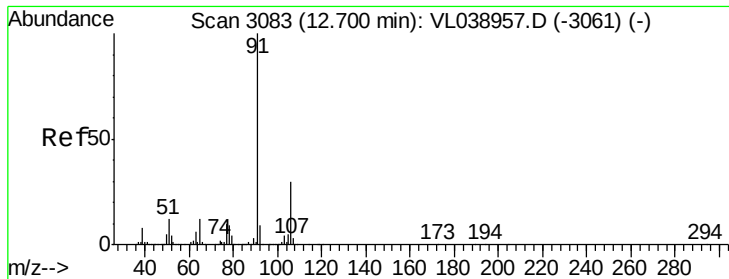
Tot Ion:131 Resp: 4123
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.9 115.3#
 119 0.0 47.4 71.0#



#57
 Chlorobenzene
 Concen: 0.112 ppbv
 RT: 12.13 min Scan# 2907
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion:112 Resp: 15180
 Ion Ratio Lower Upper
 112 100
 77 0.0 57.7 86.5#
 114 24.1 30.1 36.7#





#58

Ethyl Benzene

Concen: 0.038 ppbv

RT: 12.71 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

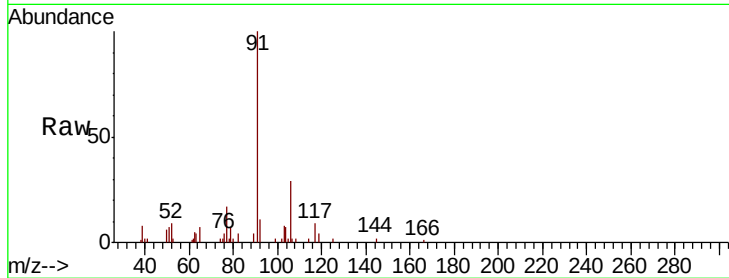
Acq: 5 May 2022 23:55

Tot Ion: 91 Resp: 9773

Ion Ratio Lower Upper

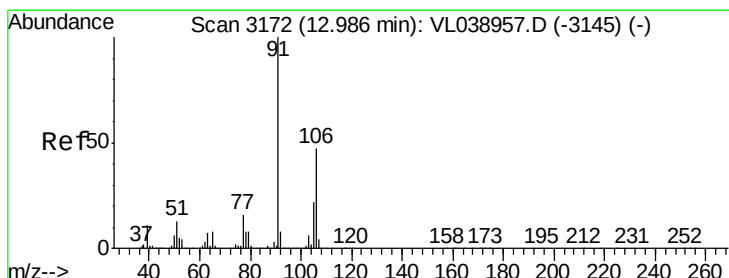
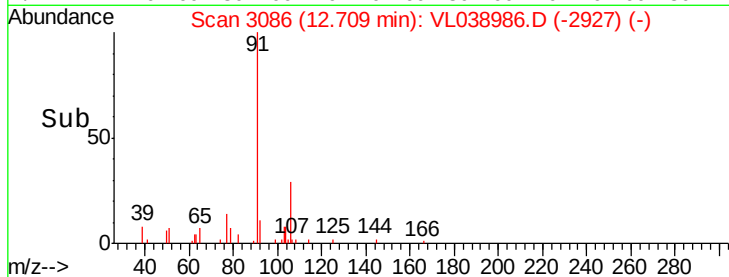
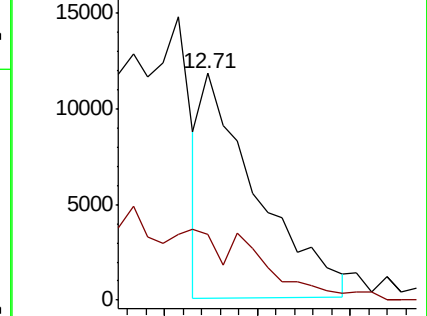
91 100

106 31.3 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.051 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL038986.D

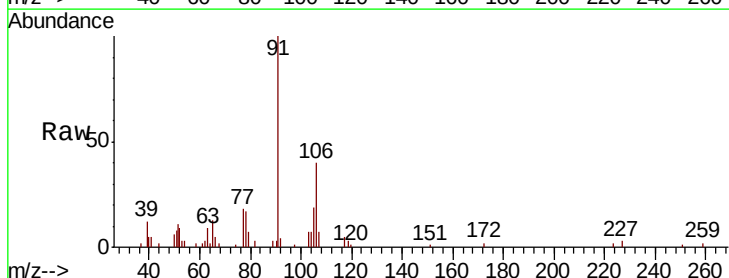
Acq: 5 May 2022 23:55

Tgt Ion: 91 Resp: 11375

Ion Ratio Lower Upper

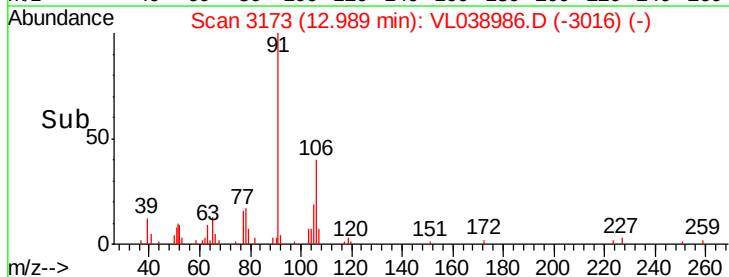
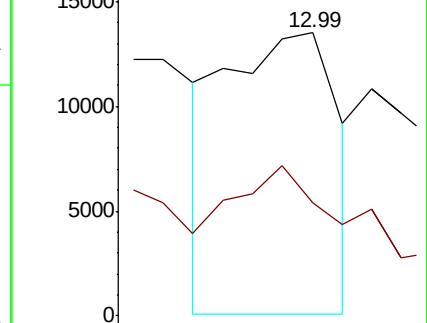
91 100

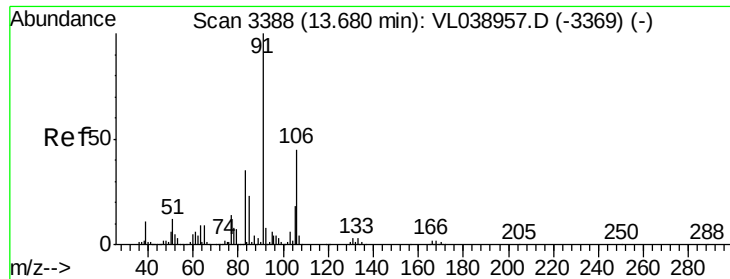
106 206.8 34.6 52.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

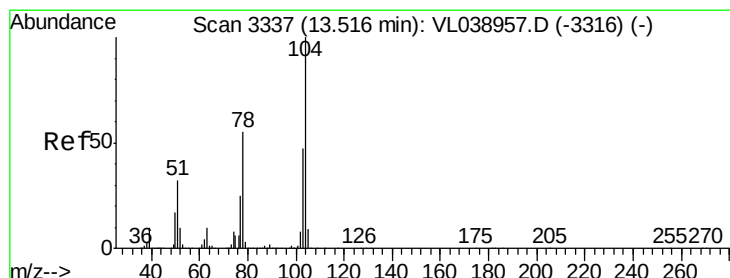
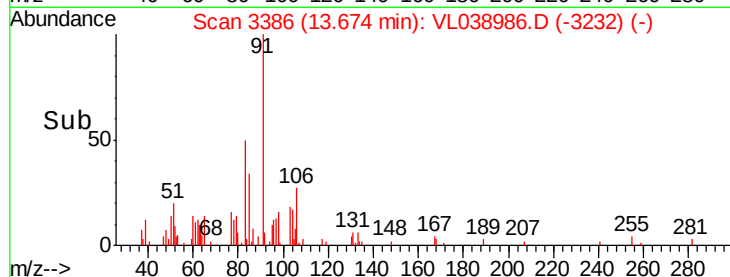
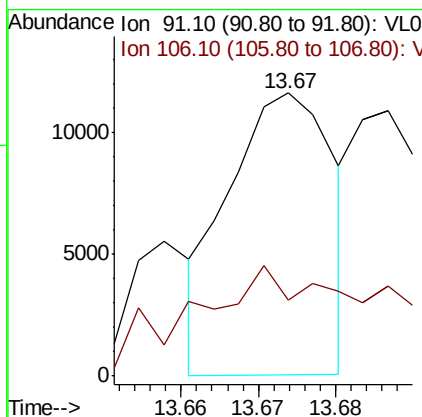
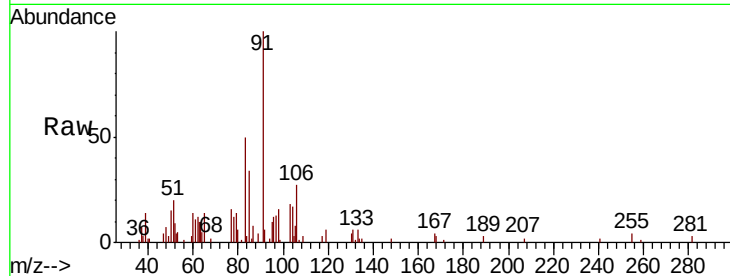
Ion 106.10 (105.80 to 106.80): V





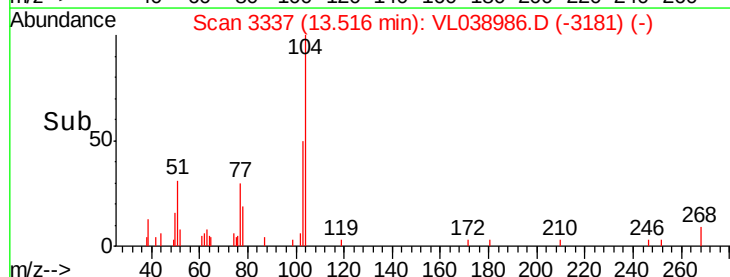
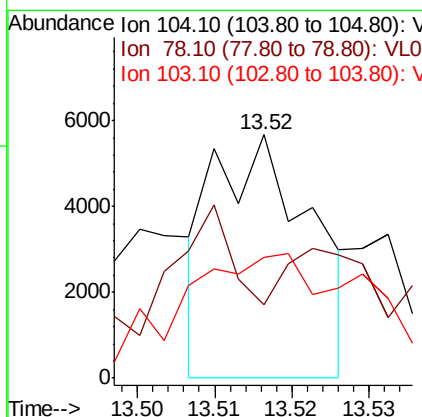
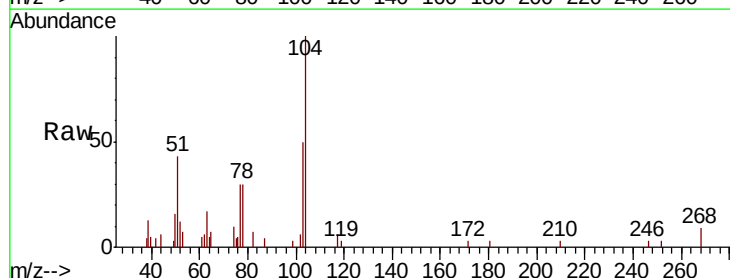
#60
o-Xylene
Concen: 0.052 ppbv
RT: 13.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 23:55

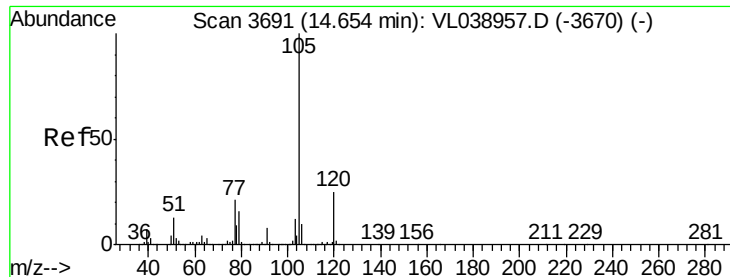
Tot Ion: 91 Resp: 10885
Ion Ratio Lower Upper
91 100
106 99.8 22.2 66.6#



#61
Styrene
Concen: 0.045 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. 0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion:104 Resp: 4959
Ion Ratio Lower Upper
104 100
78 154.2 46.4 69.6#
103 128.4 39.3 58.9#





#62

Isopropylbenzene

Concen: 0.059 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File:

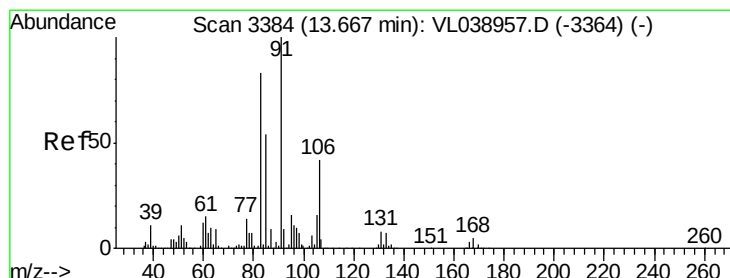
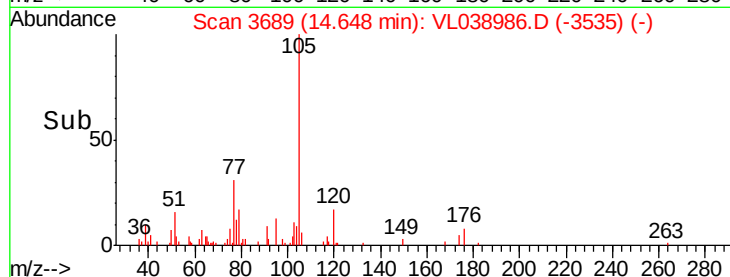
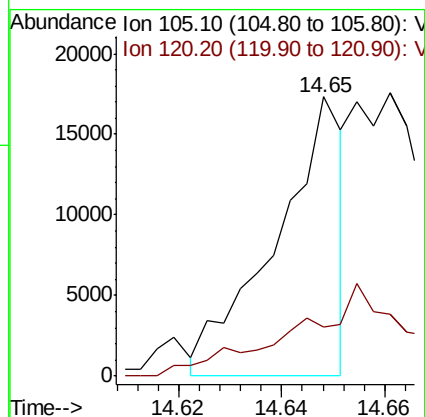
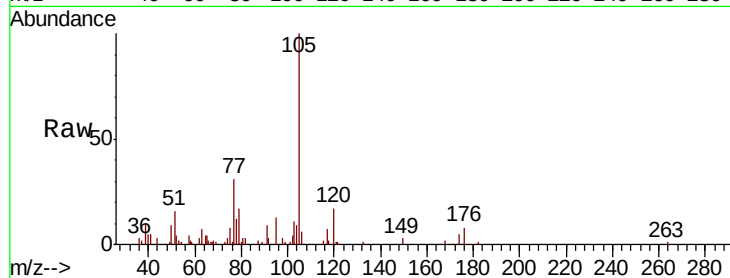
Acq: 5 May 2022 23:55

Tot Ion: 105 Resp: 15656

Ion Ratio Lower Upper

105 100

120 0.0 20.5 30.7#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. -0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

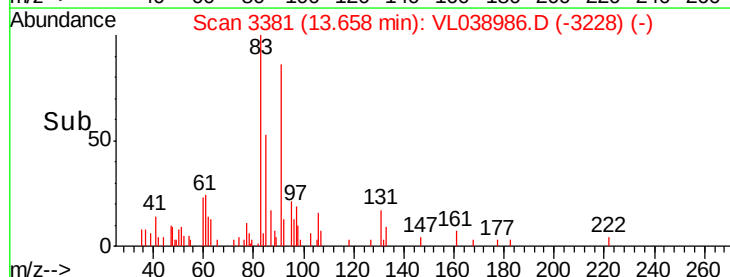
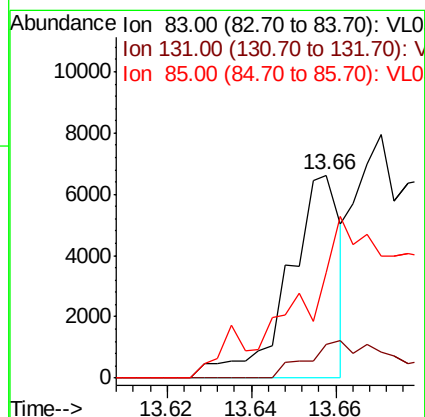
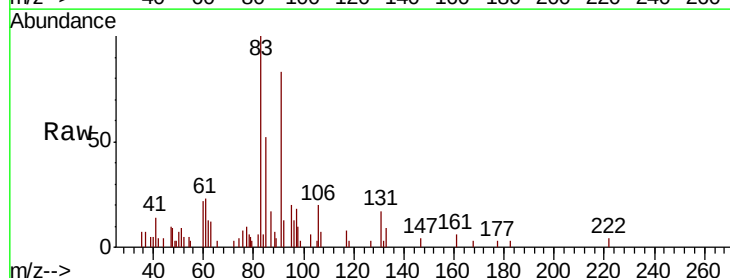
Tgt Ion: 83 Resp: 5690

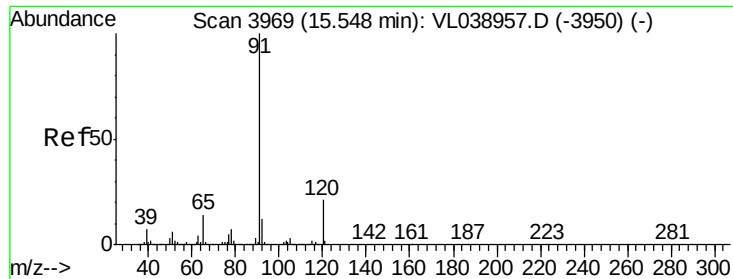
Ion Ratio Lower Upper

83 100

131 34.8 4.5 13.7#

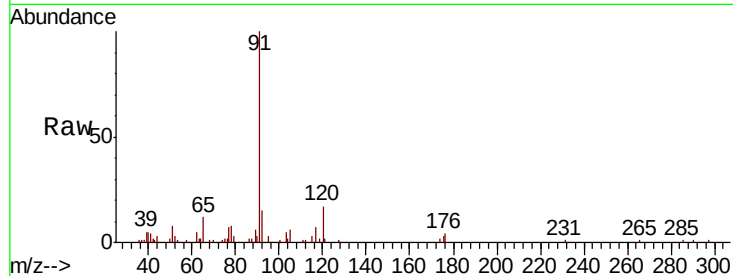
85 228.8 32.8 98.3#



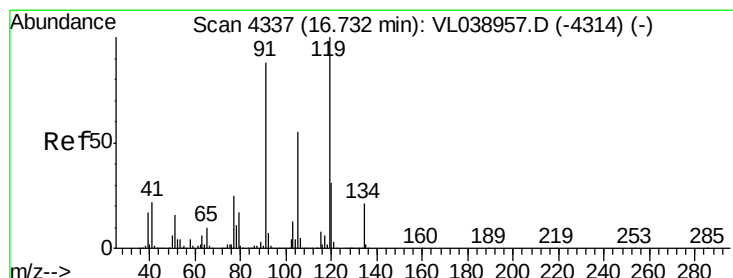
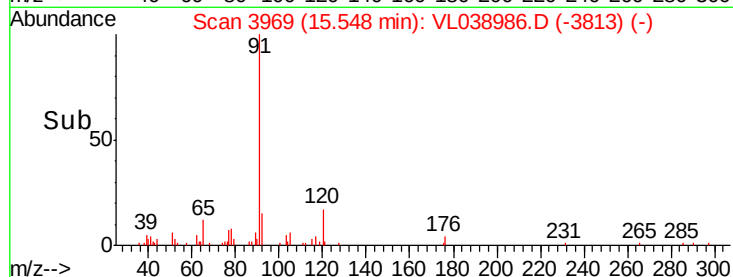
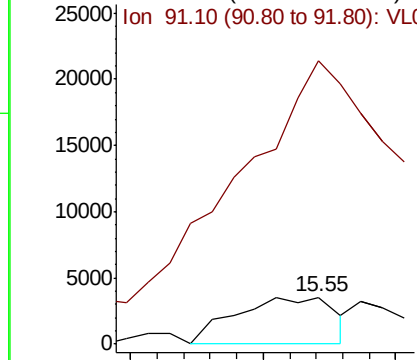


#64
n-propylbenzene
Concen: 0.050 ppbv
RT: 15.55 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 23:55

Tot Ion:120 Resp: 3685
Ion Ratio Lower Upper
120 100
91 1482.6 400.6 601.0#

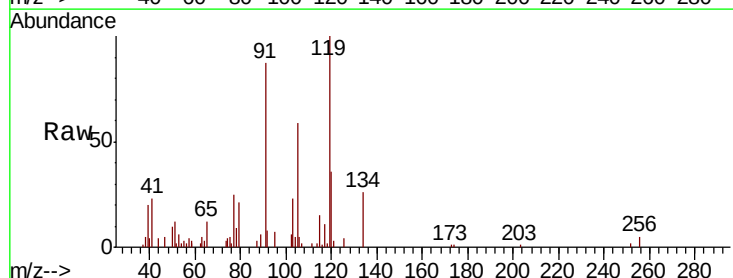


Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0

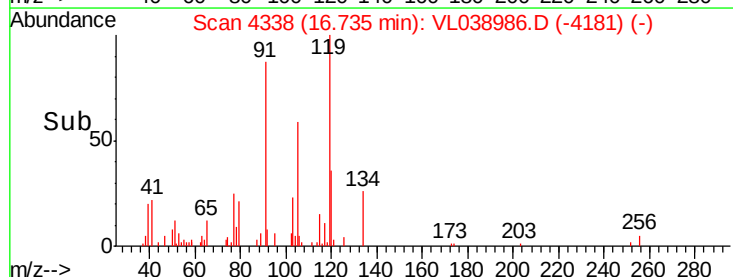
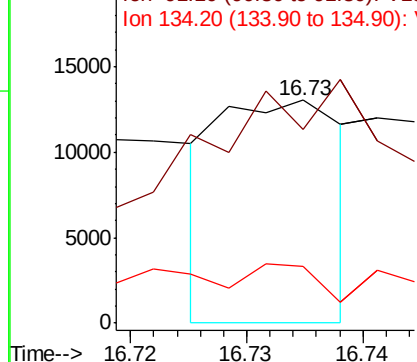


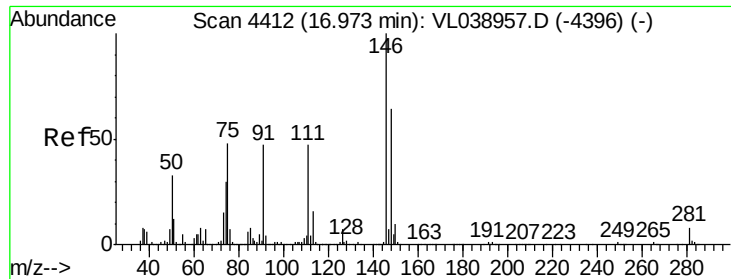
#65
tert-Butylbenzene
Concen: 0.036 ppbv
RT: 16.73 min Scan# 4338
Delta R.T. 0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion:119 Resp: 9576
Ion Ratio Lower Upper
119 100
91 0.0 69.4 104.2#
134 78.8 15.8 23.8#



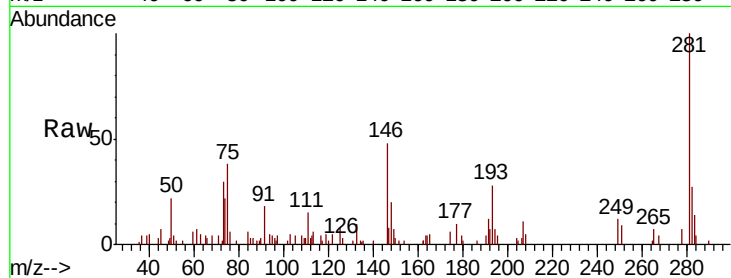
Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V





#66
Benzyl Chloride
Concen: 0.035 ppbv
RT: 16.97 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 23:55

Tot Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.2	6.2#

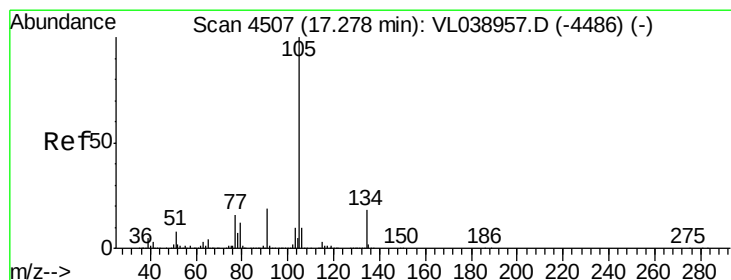
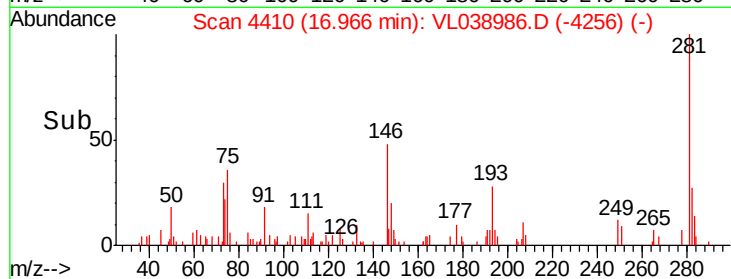
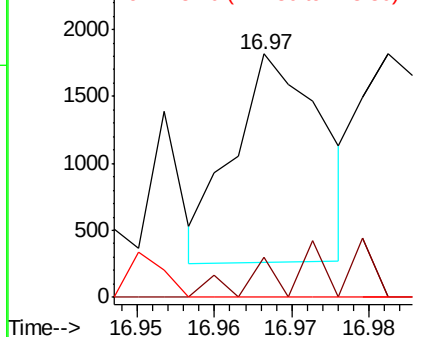


Abundance

Ion 91.10 (90.80 to 91.80): VL0

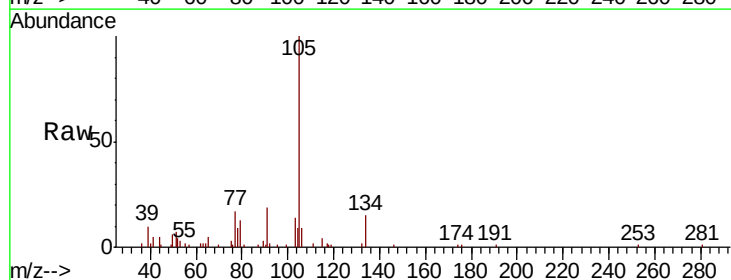
Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



#67
sec-Butylbenzene
Concen: 0.092 ppbv
RT: 17.28 min Scan# 4507
Delta R.T.: 0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

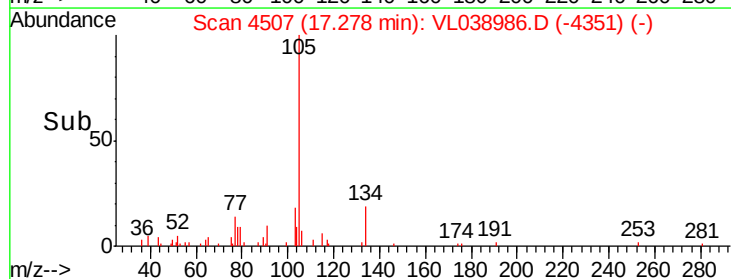
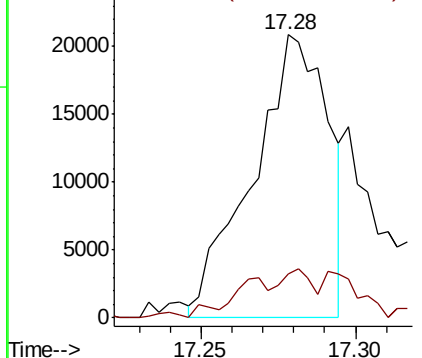
Tgt Ion	Ratio	Lower	Upper
105	100		
134	24.7	14.2	21.4#

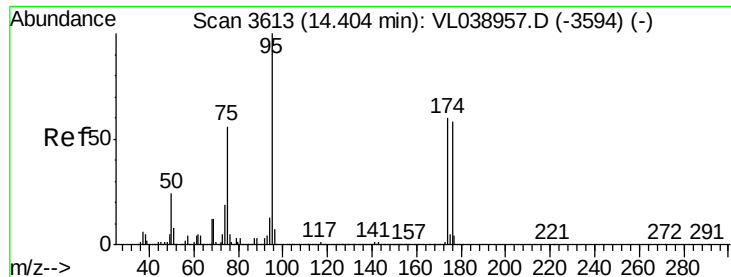


Abundance

Ion 105.10 (104.80 to 105.80): V

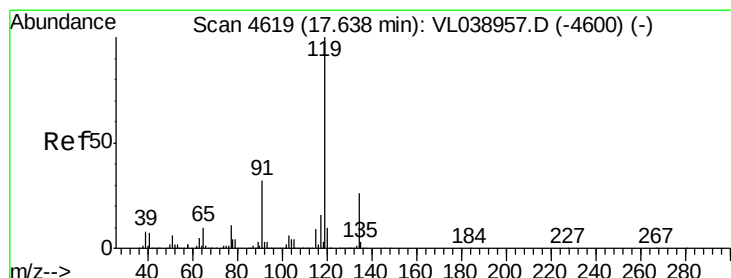
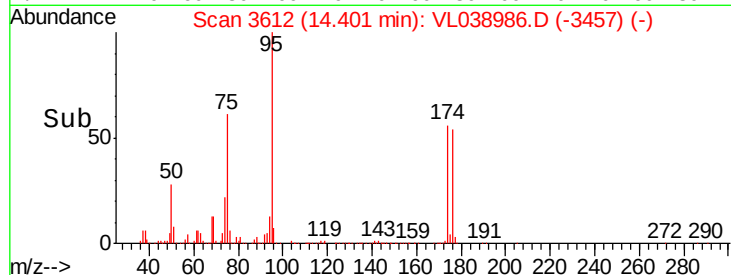
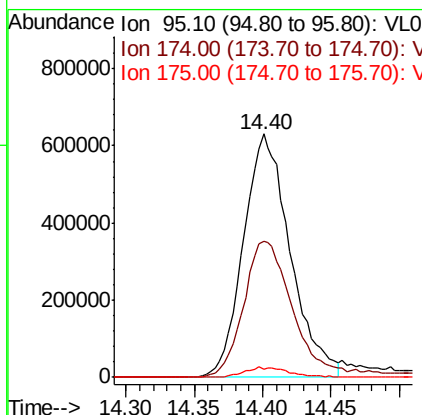
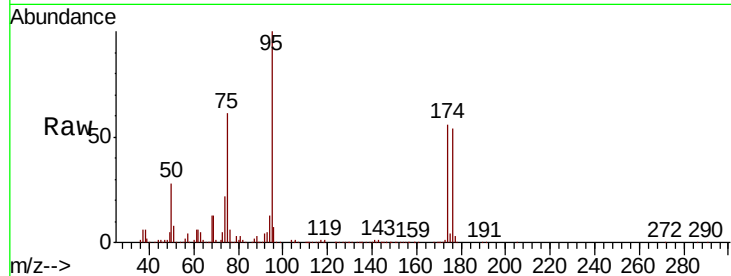
Ion 134.20 (133.90 to 134.90): V





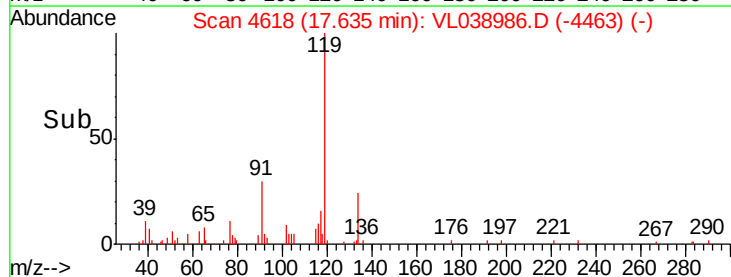
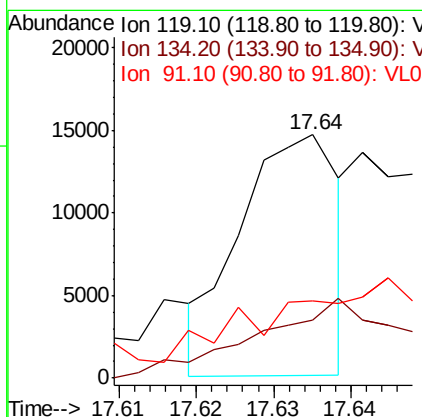
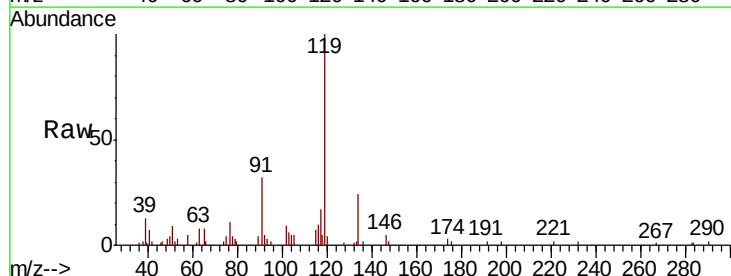
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.520 ppbv
 RT: 14.40 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 23:55

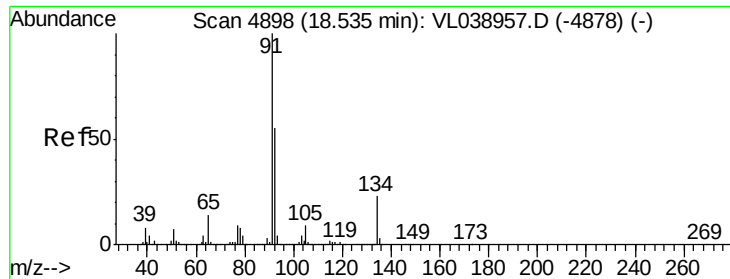
Tot Ion: 95 Resp: 1503272
 Ion Ratio Lower Upper
 95 100
 174 62.9 50.8 76.2
 175 4.5 3.8 5.6



#69
 p-Isopropyltoluene
 Concen: 0.042 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

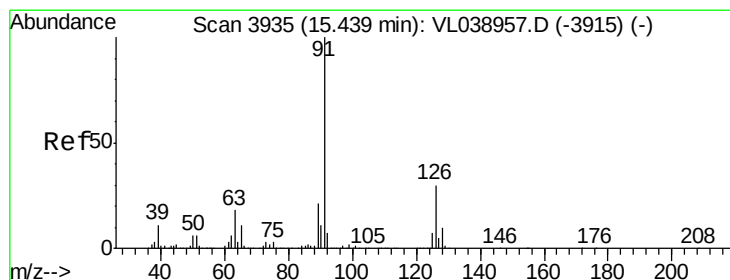
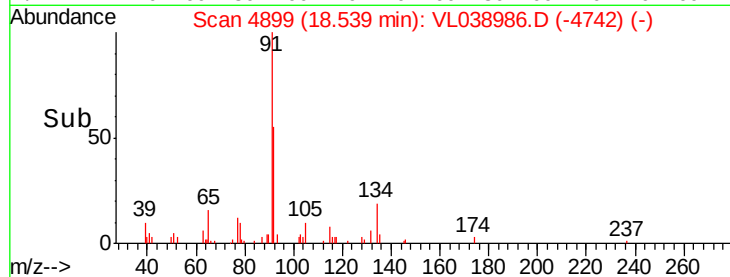
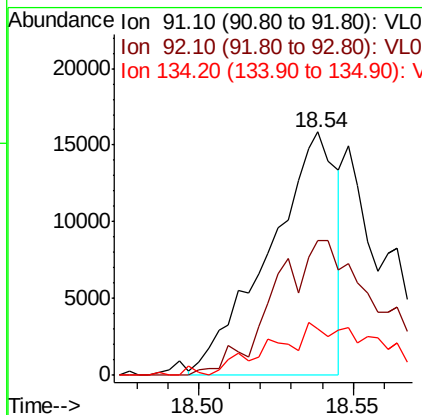
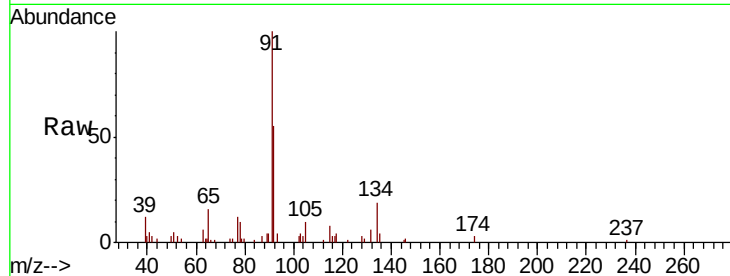
Tgt Ion: 119 Resp: 12965
 Ion Ratio Lower Upper
 119 100
 134 76.3 20.0 30.0#
 91 0.0 24.8 37.2#





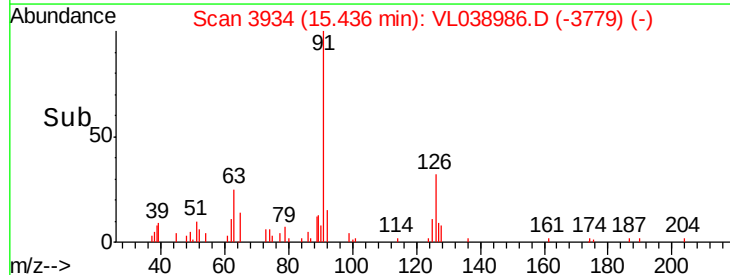
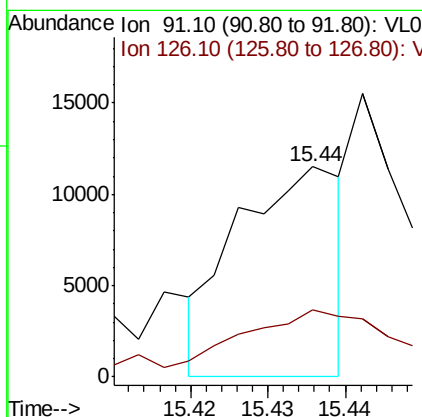
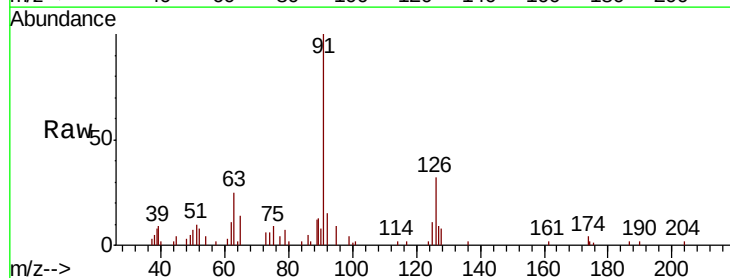
#70
n-Butylbenzene
Concen: 0.073 ppbv
RT: 18.54 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 23:55

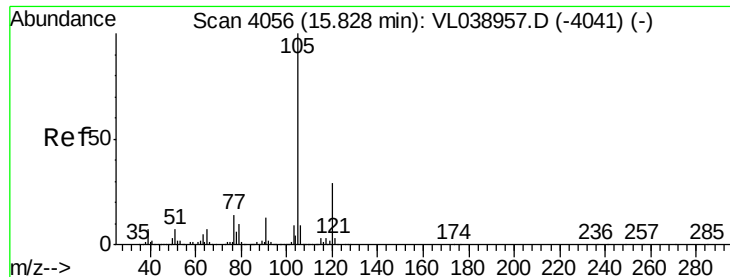
Tot Ion	Ratio	Lower	Upper
91	100		
92	90.6	43.1	64.7#
134	36.1	17.0	25.4#



#71
2-Chlorotoluene
Concen: 0.046 ppbv
RT: 15.44 min Scan# 3934
Delta R.T. -0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion	Ratio	Lower	Upper
91	100		
126	73.3	11.9	47.5#





#72

4-Ethyltoluene

Concen: 0.060 ppbv

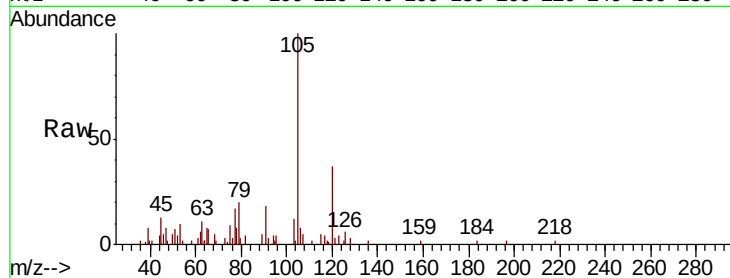
RT: 15.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

Tot Ion:	105	Resp:	14158
Ion	Ratio	Lower	Upper
105	100		
120	58.8	23.4	35.0#
91	38.8	10.6	16.0#
77	37.0	12.5	18.7#

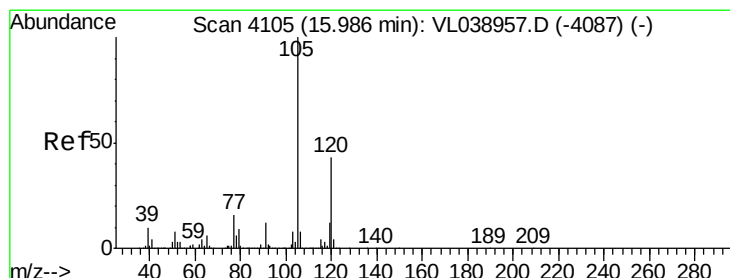
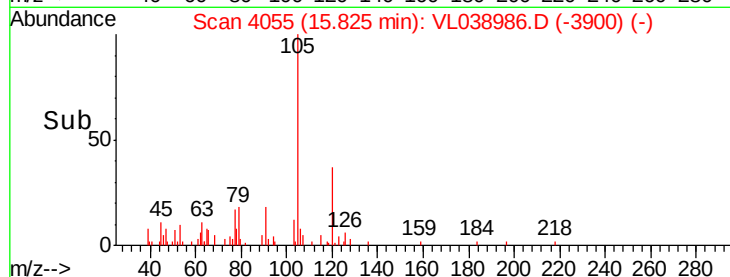
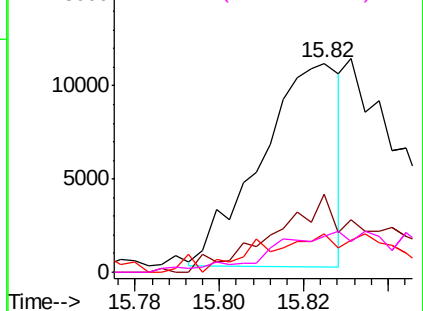


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.073 ppbv

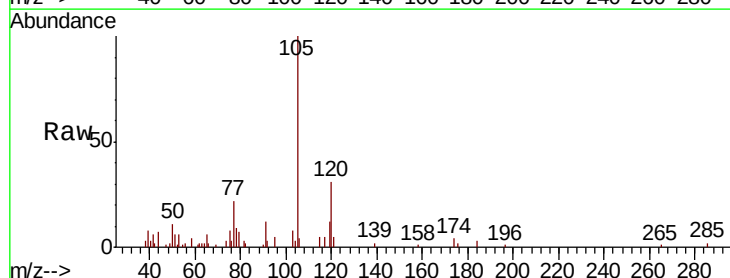
RT: 15.98 min Scan# 4103

Delta R.T. -0.01 min

Lab File: VL038986.D

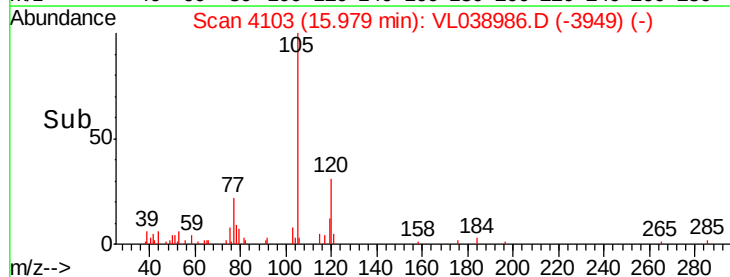
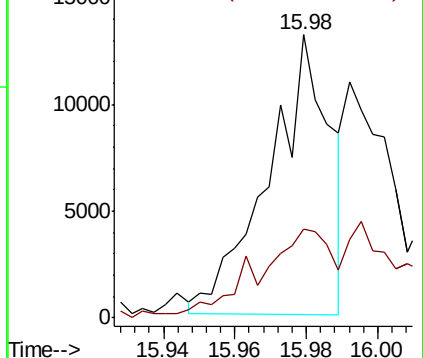
Acq: 5 May 2022 23:55

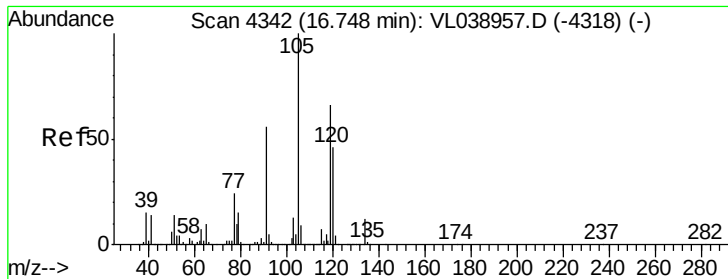
Tgt Ion:	105	Resp:	15594
Ion	Ratio	Lower	Upper
105	100		
120	30.1	34.4	51.6#



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: 0.039 ppbv

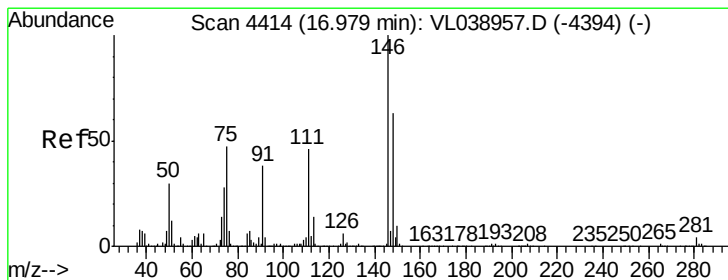
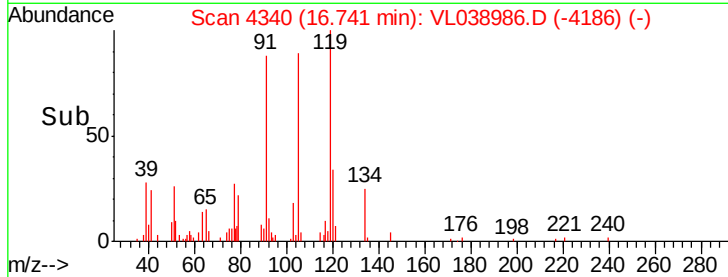
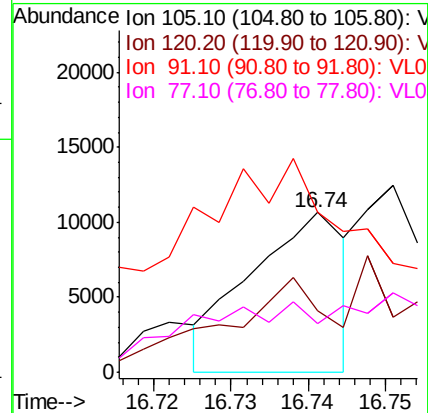
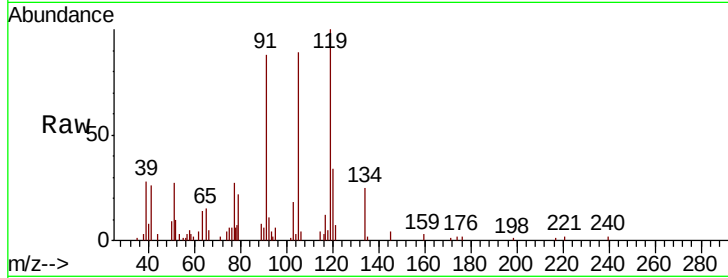
RT: 16.74 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55

Tot Ion:	105	Resp:	9116
Ion	Ratio	Lower	Upper
105	100		
120	15.2	36.9	55.3#
91	16.2	45.0	67.4#
77	2.8	19.2	28.8#



#75

1,3-Dichlorobenzene

Concen: 0.047 ppbv

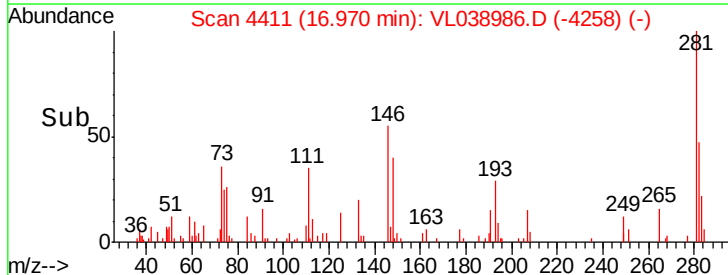
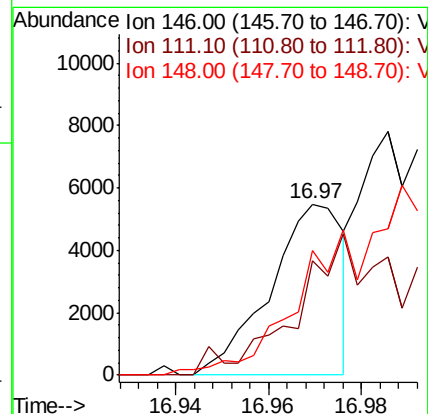
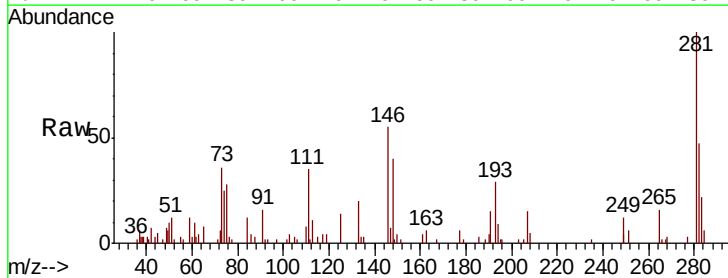
RT: 16.97 min Scan# 4411

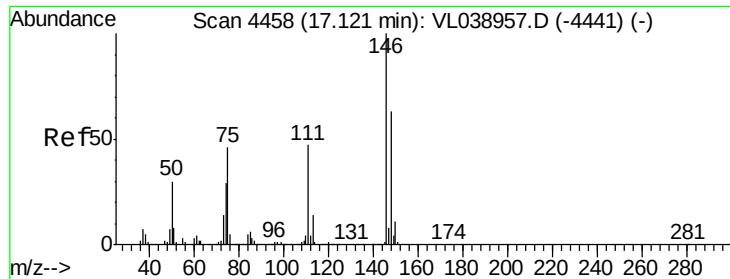
Delta R.T. -0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion:	146	Resp:	5985
Ion	Ratio	Lower	Upper
146	100		
111	173.0	24.1	72.2#
148	0.0	32.4	97.2#





#76

1,4-Dichlorobenzene

Concen: 0.069 ppbv

RT: 17.12 min

Delta R.T. MSVOA_L

Lab File:

Acq: 5 May 2022 23:55

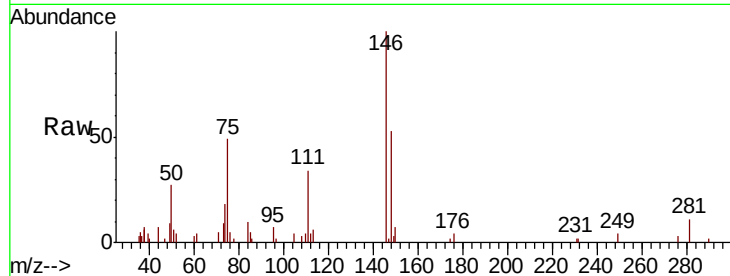
Tot Ion:146 Resp: 8668

Ion Ratio Lower Upper

146 100

111 0.0 23.6 71.0#

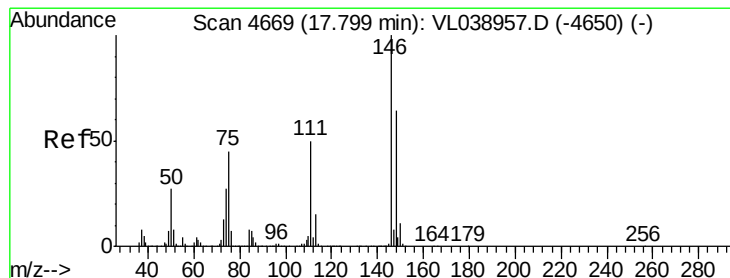
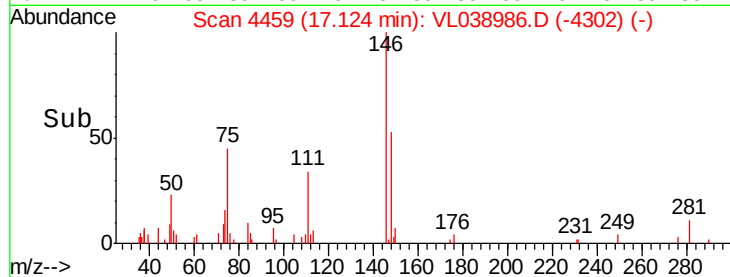
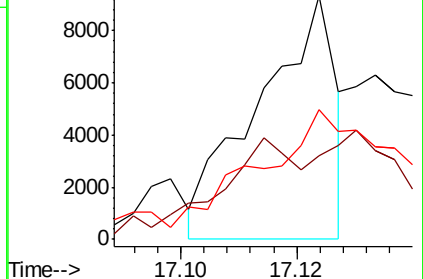
148 134.8 32.2 96.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.032 ppbv

RT: 17.79 min Scan# 4667

Delta R.T. -0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

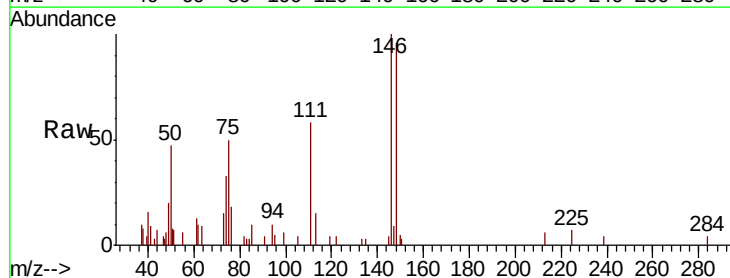
Tgt Ion:146 Resp: 4094

Ion Ratio Lower Upper

146 100

111 0.0 25.3 75.9#

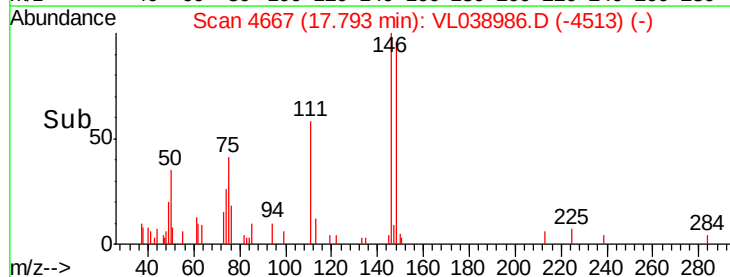
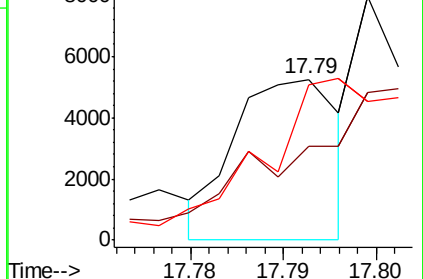
148 0.0 32.3 96.9#

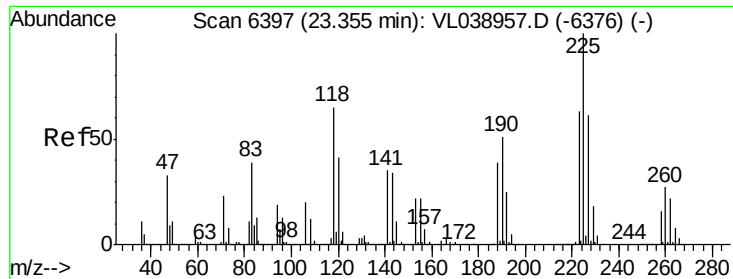


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

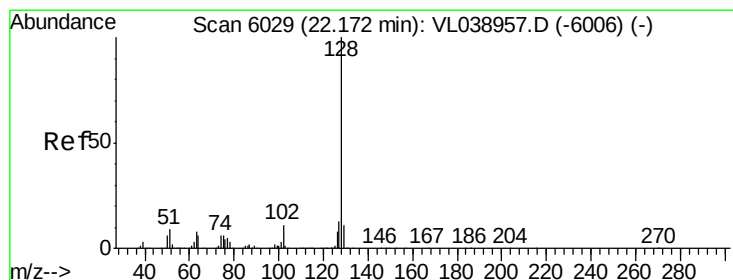
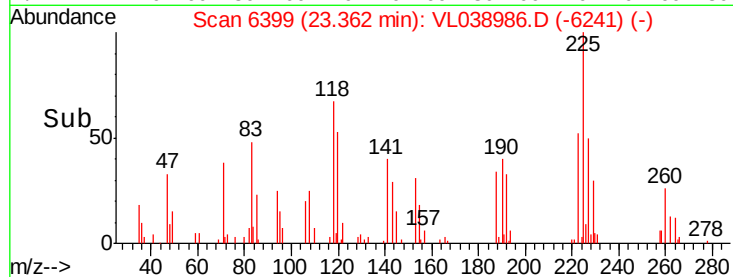
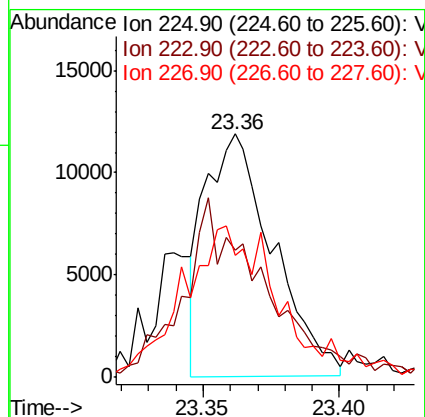
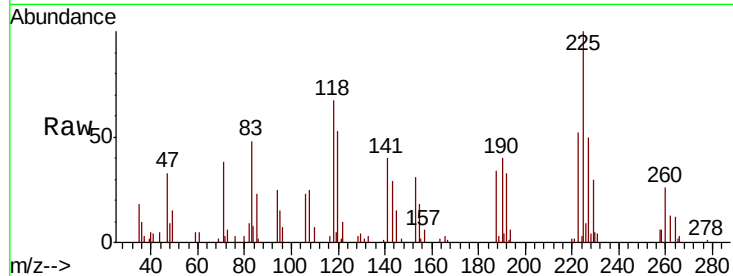
Ion 148.00 (147.70 to 148.70): V





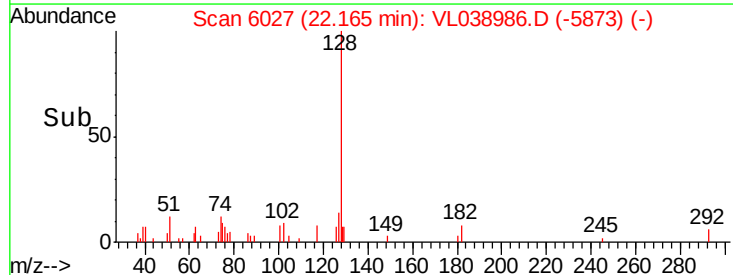
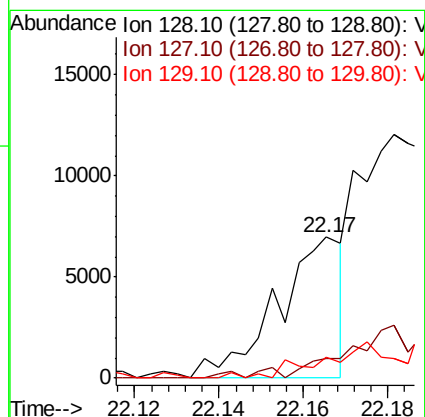
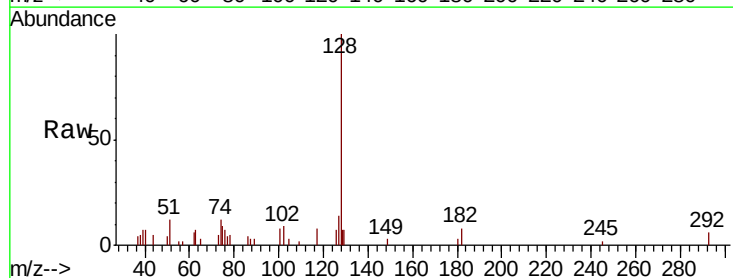
#78
Hexachloro-1,3-Butadiene
Concen: 0.175 ppbv
RT: 23.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 23:55

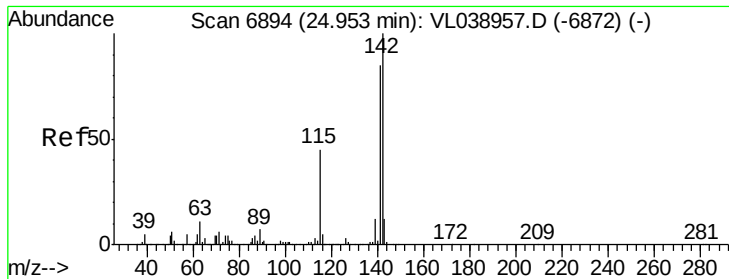
Tot Ion:225 Resp: 20448
Ion Ratio Lower Upper
225 100
223 94.4 51.4 77.0#
227 92.9 51.4 77.0#



#79
Naphthalene
Concen: 0.039 ppbv
RT: 22.17 min Scan# 6027
Delta R.T. -0.01 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion:128 Resp: 7468
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 13.7 8.9 13.3#





#80

Naphthalene, 2-methyl-

Concen: 0.043 ppbv

RT: 24.98

Delta R.T. MSVOA_L

Lab File:

Acq: 5 May 2022 23:55

ClientSampleId:

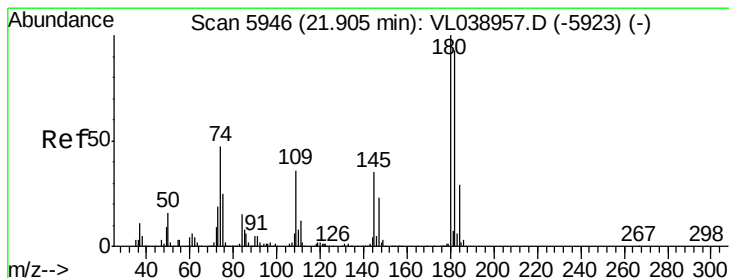
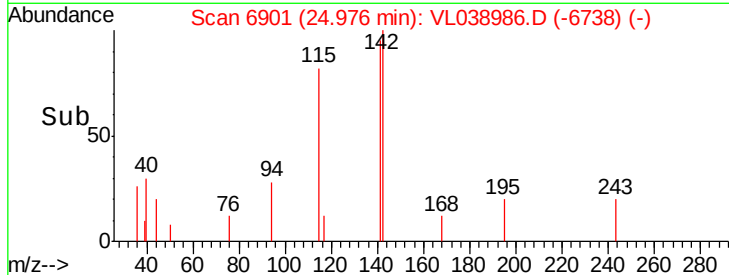
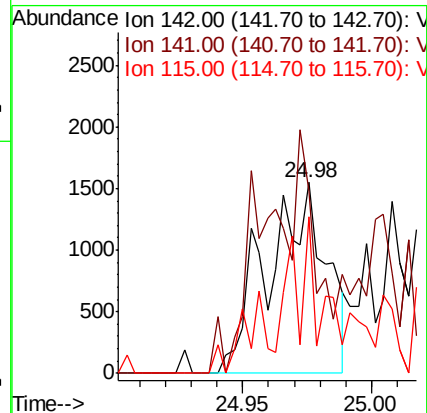
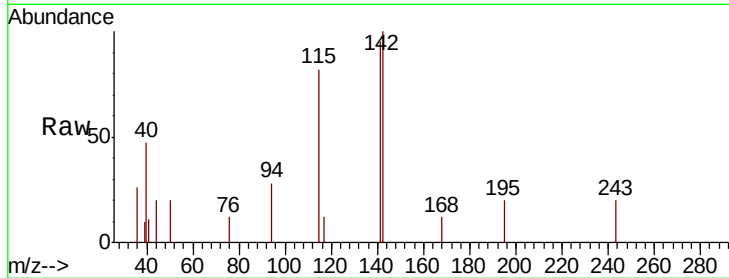
Tot Ion:142 Resp: 2454

Ion Ratio Lower Upper

142 100

141 172.4 70.8 106.2#

115 56.4 35.1 52.7#



#81

1,2,4-Trichlorobenzene

Concen: 0.071 ppbv

RT: 21.91 min Scan# 5948

Delta R.T. 0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion:180 Resp: 7870

Ion Ratio Lower Upper

180 100

182 0.0 78.4 117.6#

184 92.0 24.4 36.6#

