

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038973.D
 Acq On : 5 May 2022 15:21
 Operator : SY/AP
 Sample : N2698-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: May 06 07:28:27 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)
1) Bromochloromethane	5.66	49	1183628	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3143841	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2737497	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2213320	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

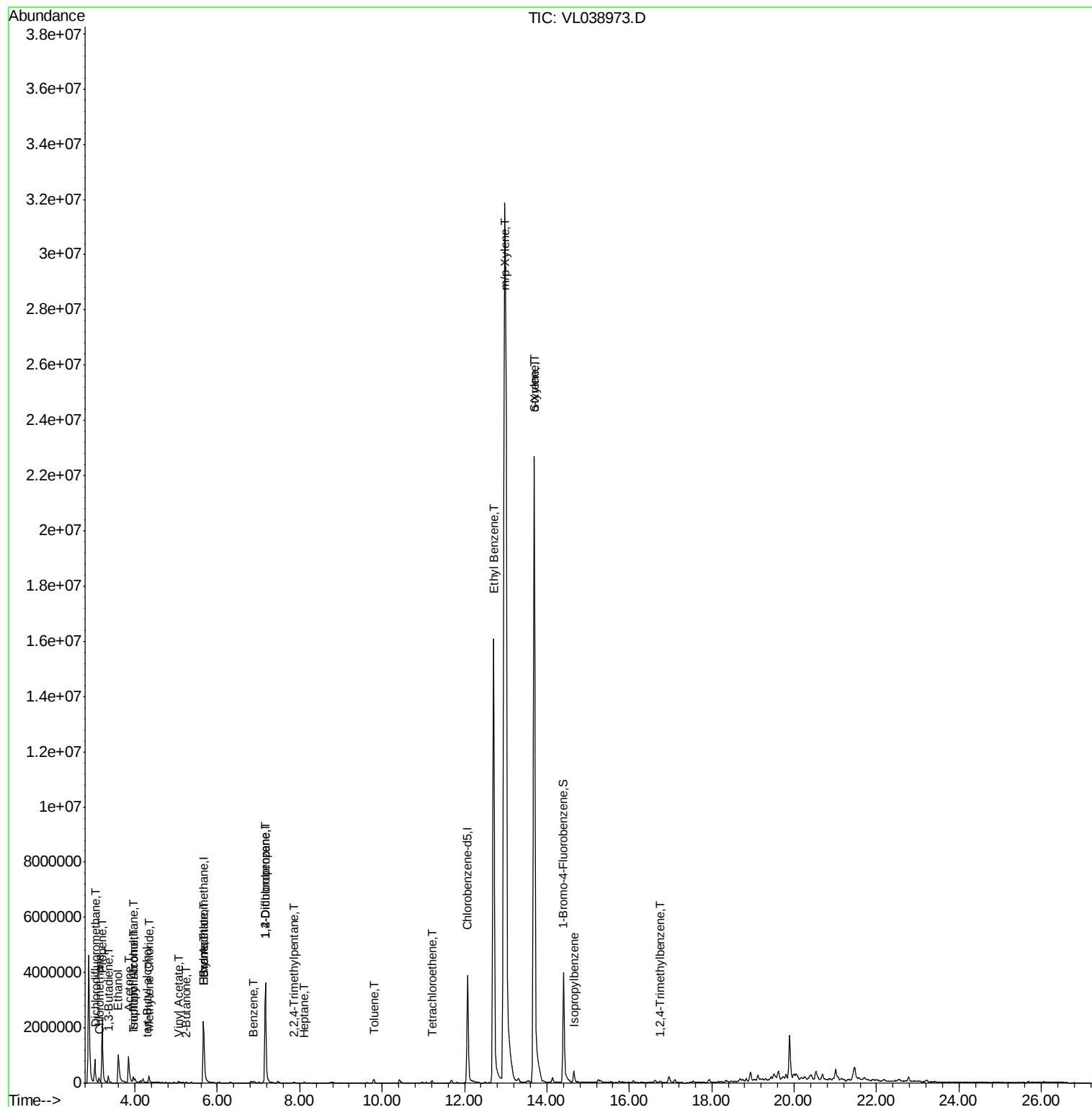
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	60259	0.325	ppbv	100
4) Chloromethane	3.14	50	34882	0.474	ppbv	95
9) Propene	3.20	41	870917	13.578	ppbv	94
10) Heptane	8.11	43	6890	0.044	ppbv #	8
11) Trichlorofluoromethane	3.95	101	34111	0.214	ppbv	90
13) Ethanol	3.60	45	1585717	316.590	ppbv	88
15) Acetone	3.84	43	1254523	11.236	ppbv	99
16) 1,3-Butadiene	3.35	39	29641	0.462	ppbv #	20
17) tert-Butyl alcohol	4.29	59	5457	0.064	ppbv #	38
19) Isopropyl Alcohol	3.96	45	213830	4.028	ppbv #	88
20) Methylene Chloride	4.34	84	88301	2.098	ppbv	98
23) Vinyl Acetate	5.06	43	25655	0.290	ppbv #	37
25) Ethyl Acetate	5.68	43	171798	0.643	ppbv #	86
26) Hexane	5.68	57	210046	1.769	ppbv #	45
34) 2-Butanone	5.25	43	36458	0.227	ppbv #	78
36) Benzene	6.88	78	24450	0.091	ppbv	96
39) 1,2-Dichloropropane	7.16	63	785347	7.502	ppbv #	25
44) 2,2,4-Trimethylpentane	7.86	57	14705	0.031	ppbv #	21
52) Tetrachloroethene	11.21	164	17136	0.178	ppbv	91
53) Toluene	9.80	91	114402	0.379	ppbv	99
58) Ethyl Benzene	12.71	91	16962424	43.056	ppbv #	78
59) m/p-Xylene	12.99	91	38361446	114.062	ppbv #	66
60) o-Xylene	13.69	91	20913653	66.068	ppbv	85
61) Styrene	13.69	104	571839	3.384	ppbv #	1
62) Isopropylbenzene	14.65	105	387673	0.959	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	20270	0.057	ppbv #	55

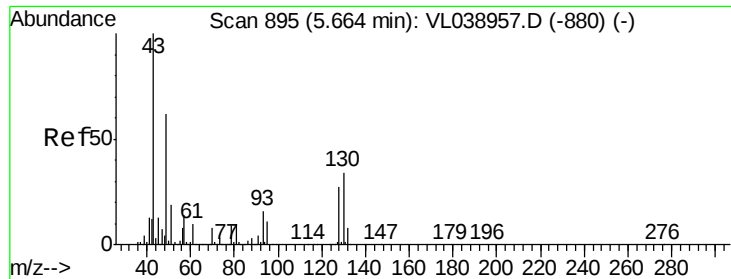
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 05 07:41:27 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1

Acq: 5 May 2022 15:21

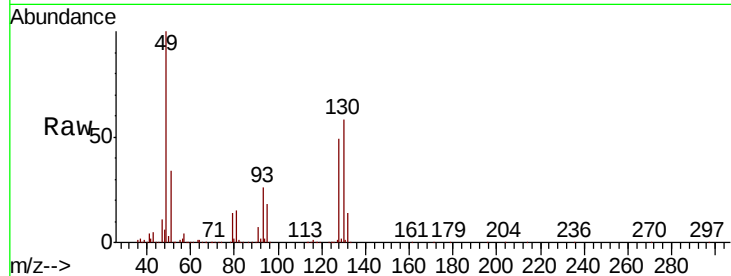
Tot Ion: 49 Resp: 1183628

Ion Ratio Lower Upper

49 100

128 50.1 23.3 69.8

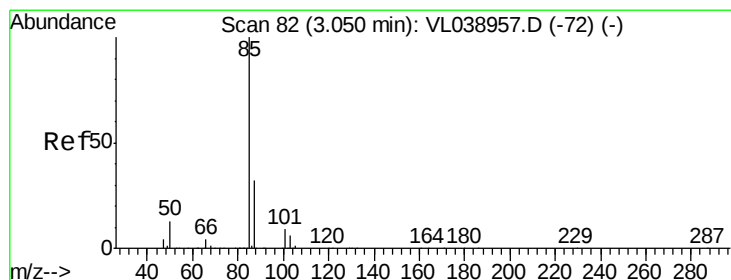
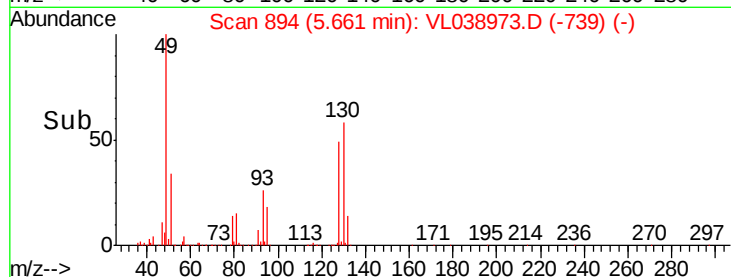
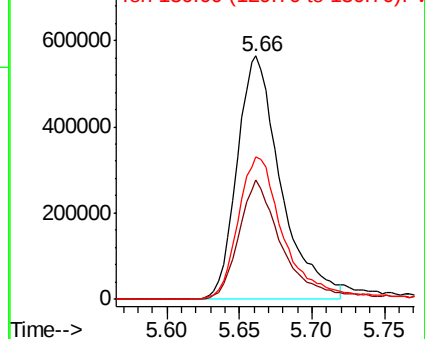
130 64.1 29.8 89.3



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: 0.325 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL038973.D

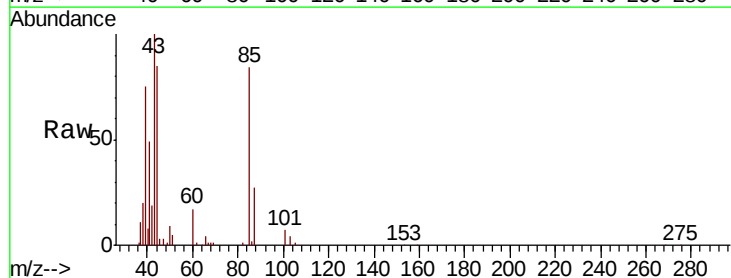
Acq: 5 May 2022 15:21

Tgt Ion: 85 Resp: 60259

Ion Ratio Lower Upper

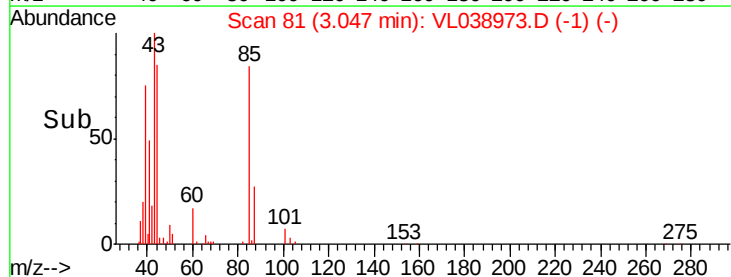
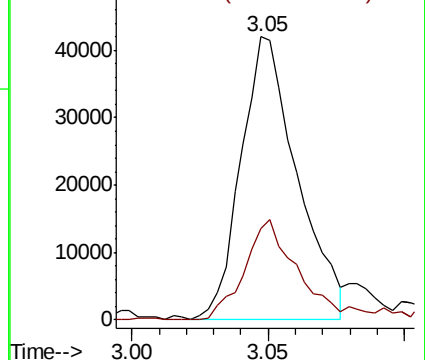
85 100

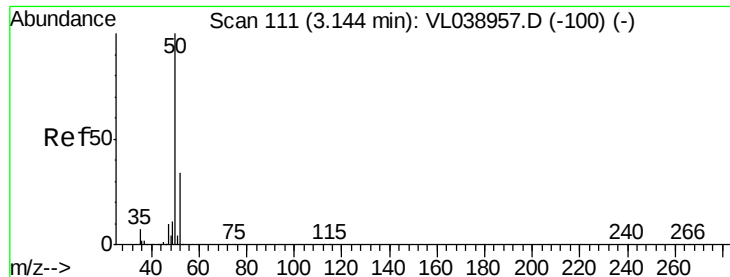
87 32.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.474 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

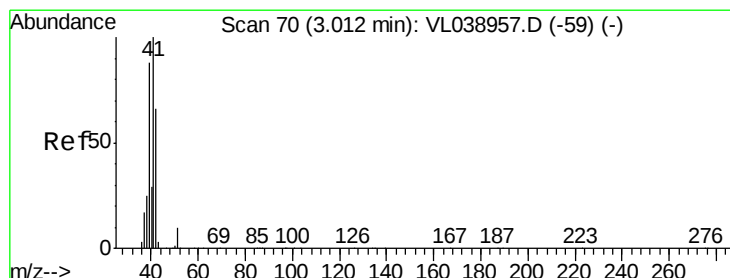
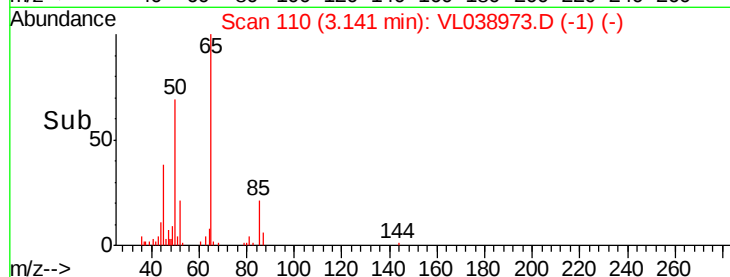
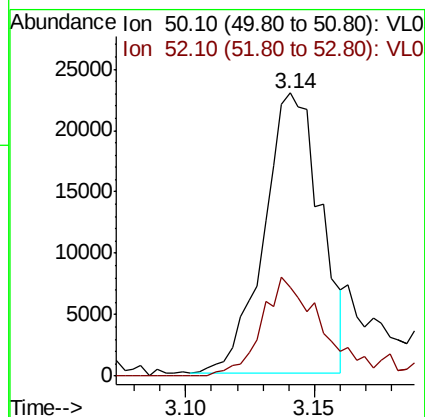
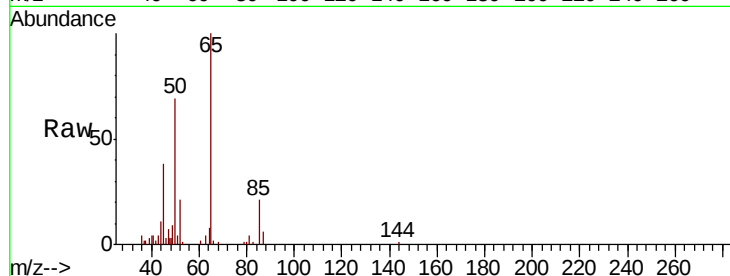
Acq: 5 May 2022 15:21

Tot Ion: 50 Resp: 34882

Ion Ratio Lower Upper

50 100

52 31.5 27.3 40.9



#9

Propene

Concen: 13.578 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.19 min

Lab File: VL038973.D

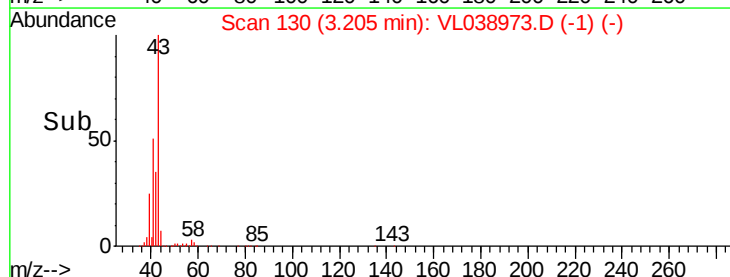
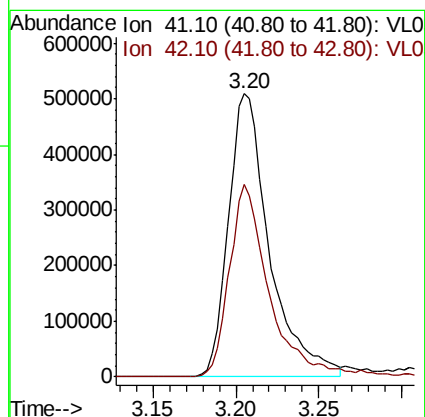
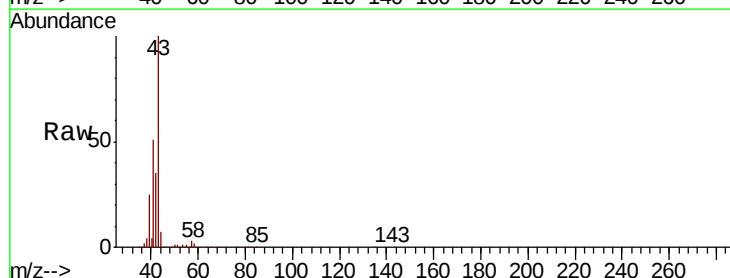
Acq: 5 May 2022 15:21

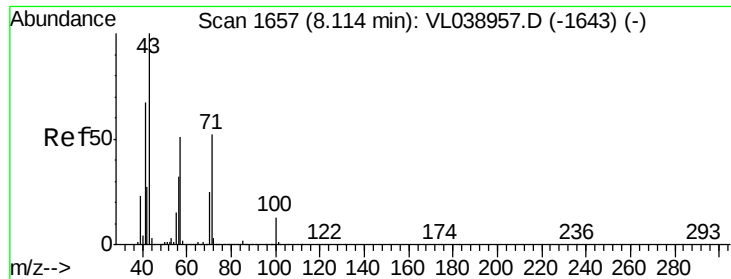
Tgt Ion: 41 Resp: 870917

Ion Ratio Lower Upper

41 100

42 67.5 58.3 87.5





#10

Heptane

Concen: 0.044 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

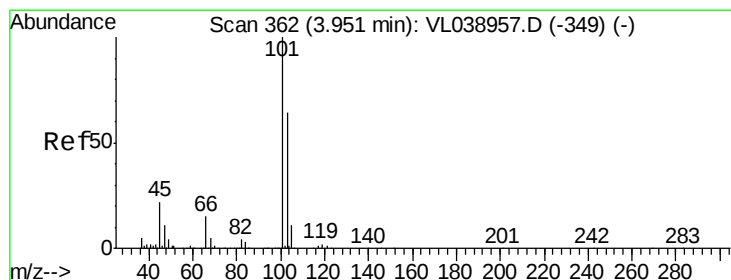
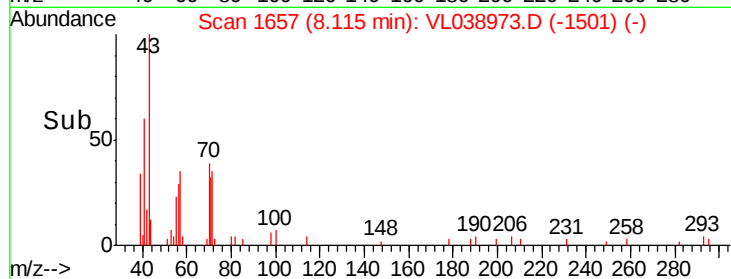
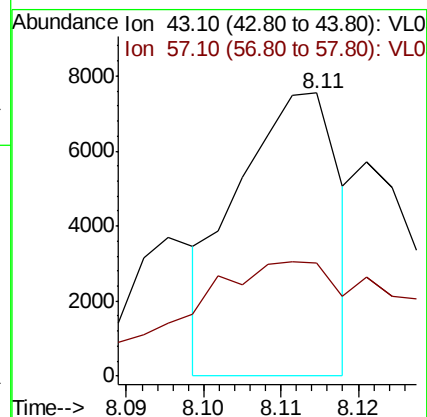
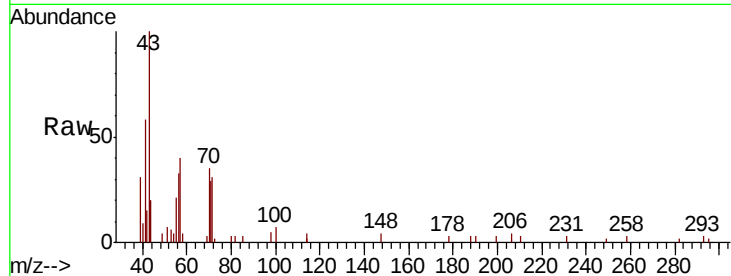
Acq: 5 May 2022 15:21

Tot Ion: 43 Resp: 6890

Ion Ratio Lower Upper

43 100

57 114.1 40.5 60.7#



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038973.D

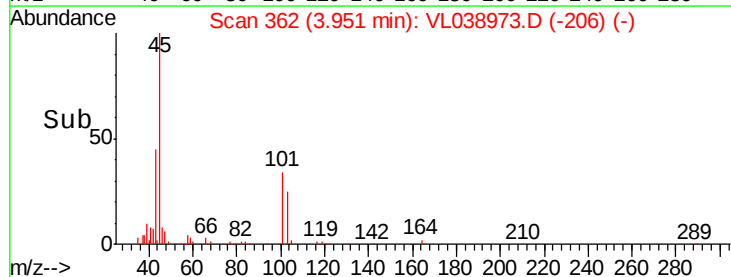
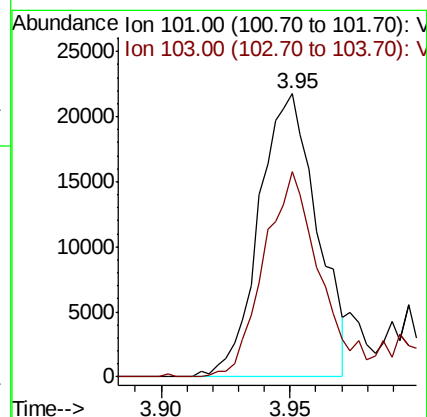
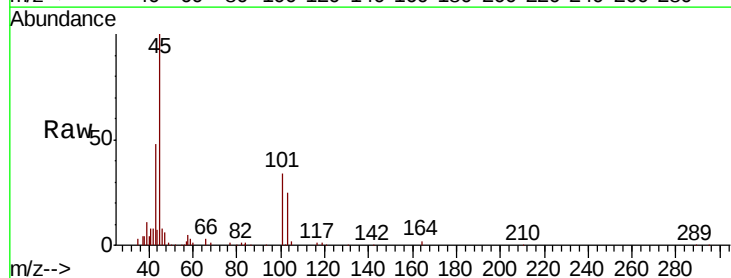
Acq: 5 May 2022 15:21

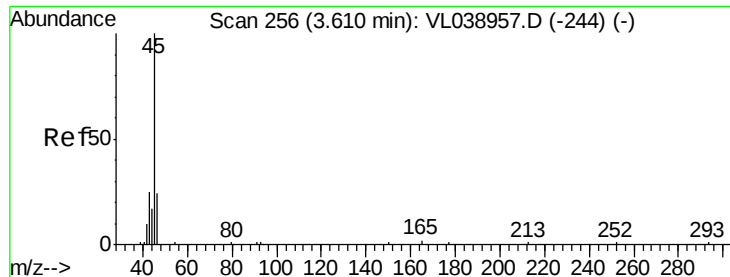
Tgt Ion:101 Resp: 34111

Ion Ratio Lower Upper

101 100

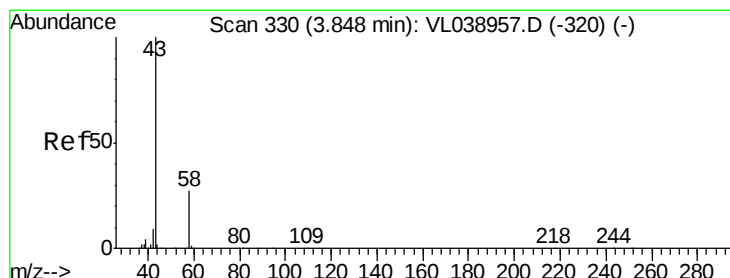
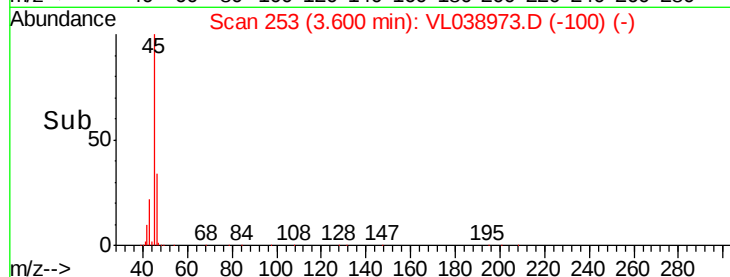
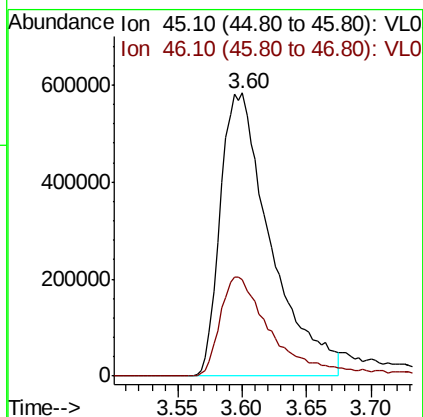
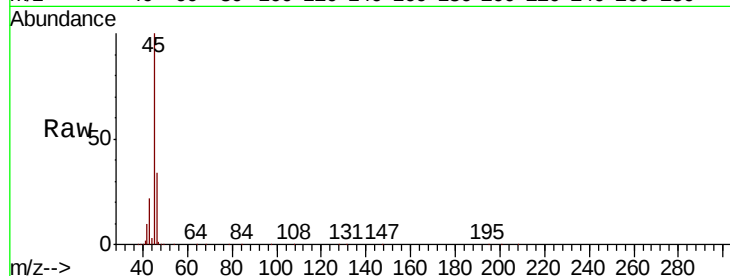
103 72.5 51.5 77.3





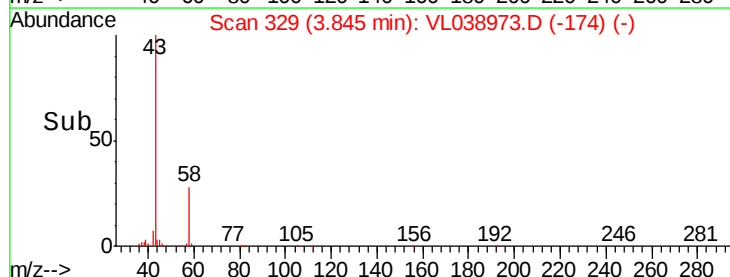
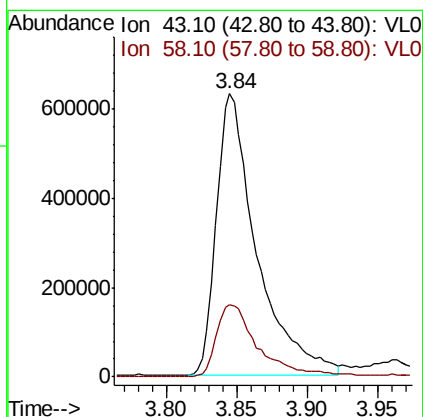
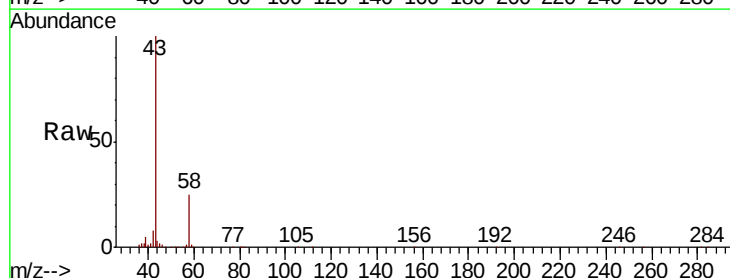
#13
Ethanol
Concen: 316.590 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 15:21

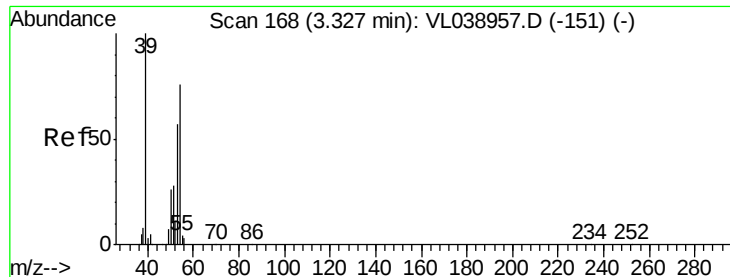
Tot Ion: 45 Resp: 1585717
Ion Ratio Lower Upper
45 100
46 37.2 18.0 72.2



#15
Acetone
Concen: 11.236 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL038973.D
Acq: 5 May 2022 15:21

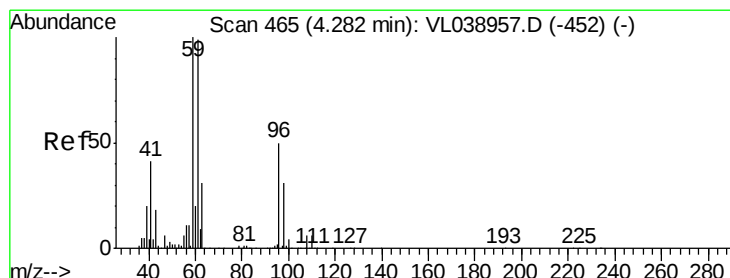
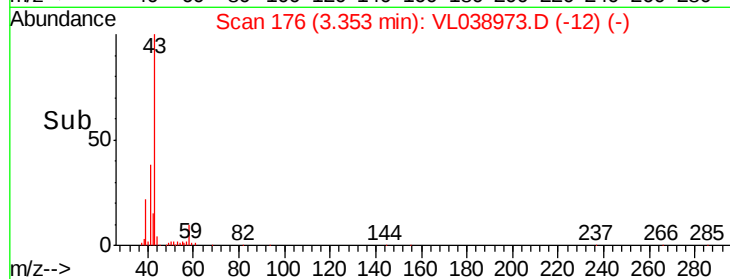
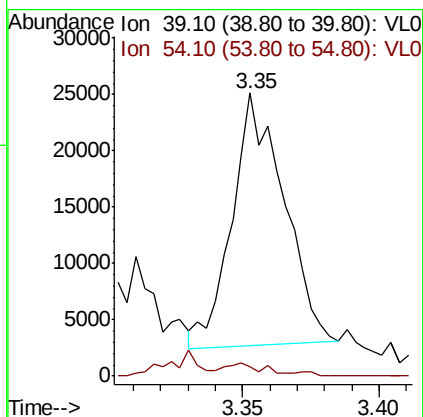
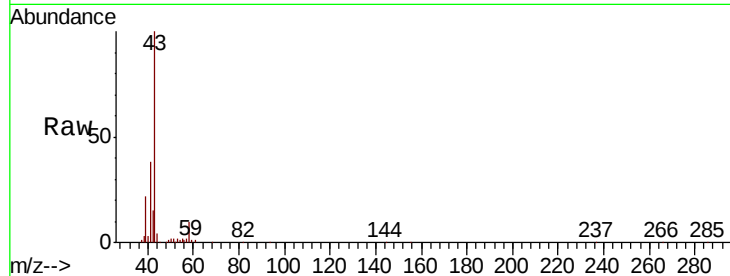
Tgt Ion: 43 Resp: 1254523
Ion Ratio Lower Upper
43 100
58 27.1 21.3 31.9





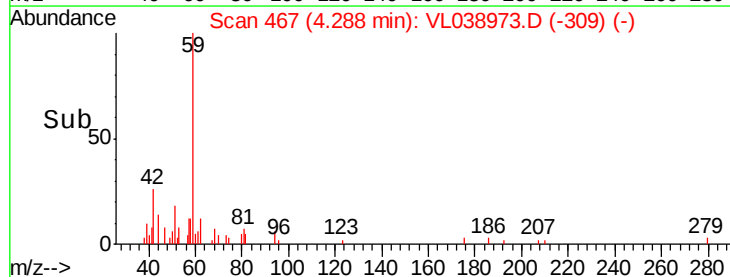
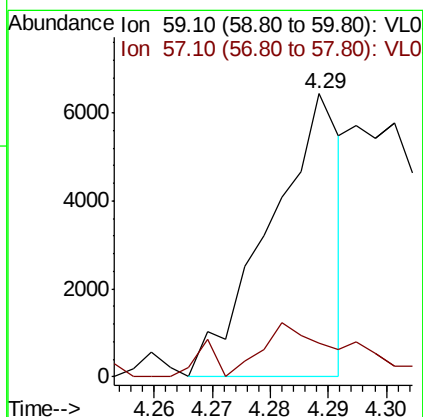
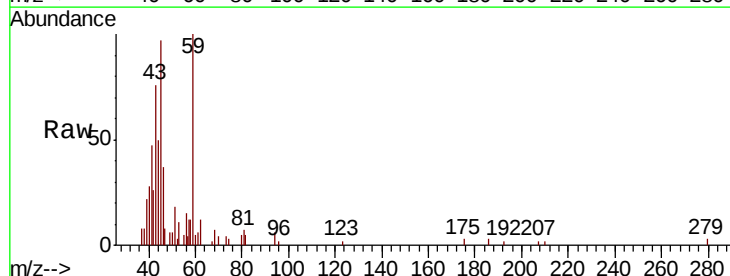
#16
 1,3-Butadiene
 Concen: 0.462 ppbv
 RT: 3.35
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 15:21

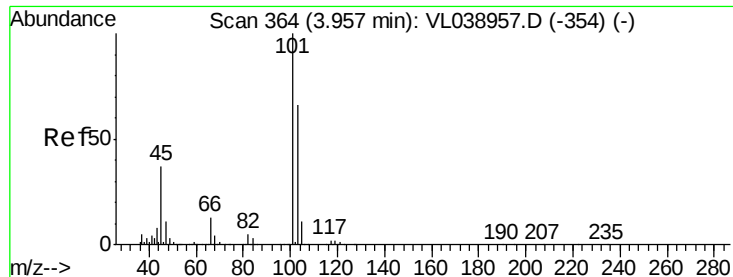
Tot Ion: 39 Resp: 29641
 Ion Ratio Lower Upper
 39 100
 54 10.6 65.2 97.8#



#17
 tert-Butyl alcohol
 Concen: 0.064 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.01 min
 Lab File: VL038973.D
 Acq: 5 May 2022 15:21

Tgt Ion: 59 Resp: 5457
 Ion Ratio Lower Upper
 59 100
 57 35.3 9.2 13.8#





#19

Isopropyl Alcohol

Concen: 4.028 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

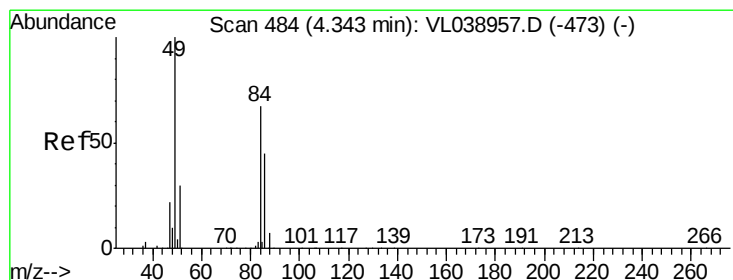
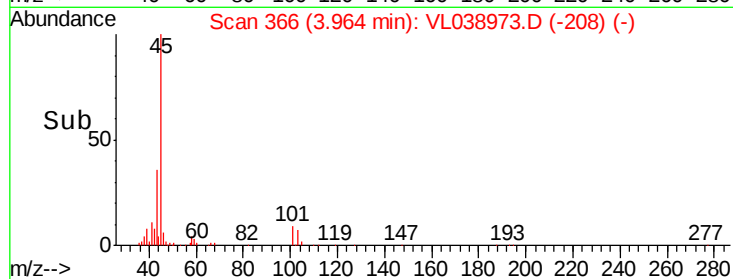
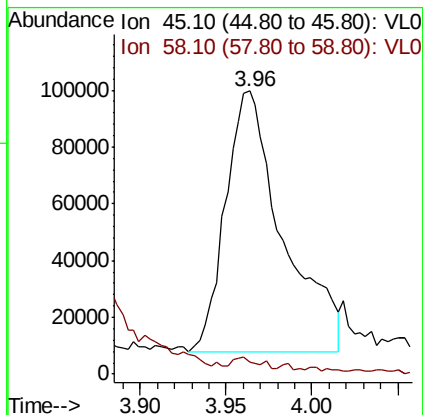
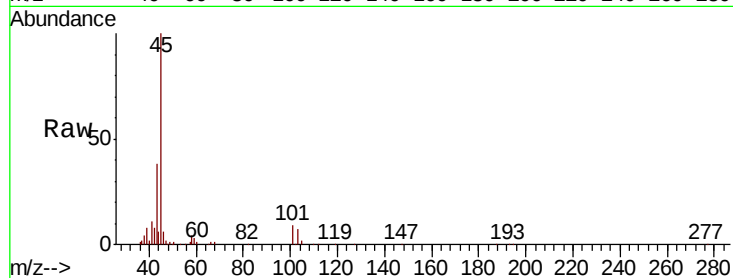
Acq: 5 May 2022 15:21

Tot Ion: 45 Resp: 213830

Ion Ratio Lower Upper

45 100

58 6.3 1.4 2.2#



#20

Methylene Chloride

Concen: 2.098 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL038973.D

Acq: 5 May 2022 15:21

Tgt Ion: 84 Resp: 88301

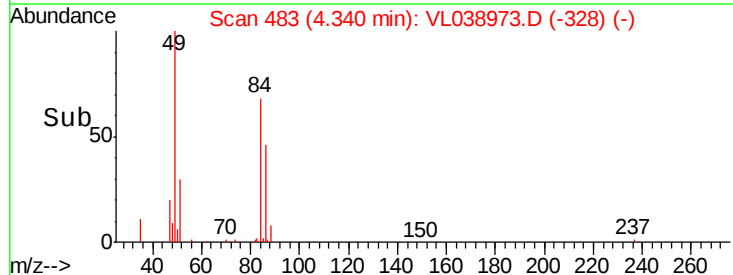
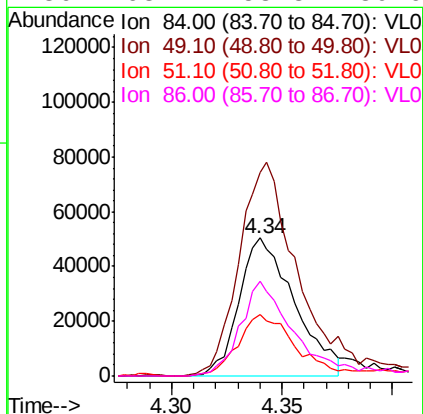
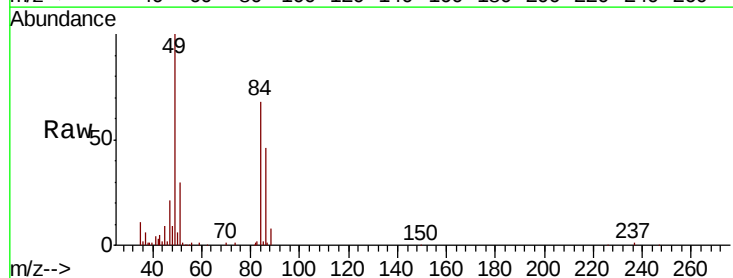
Ion Ratio Lower Upper

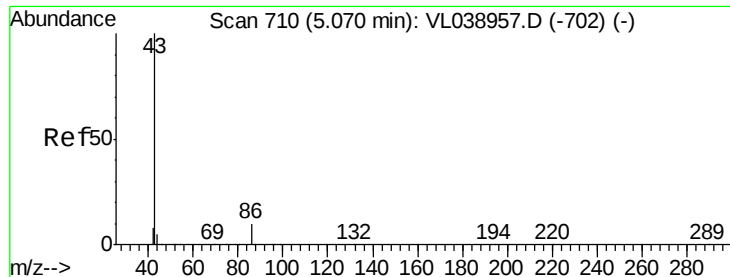
84 100

49 146.2 119.9 179.9

51 44.2 35.7 53.5

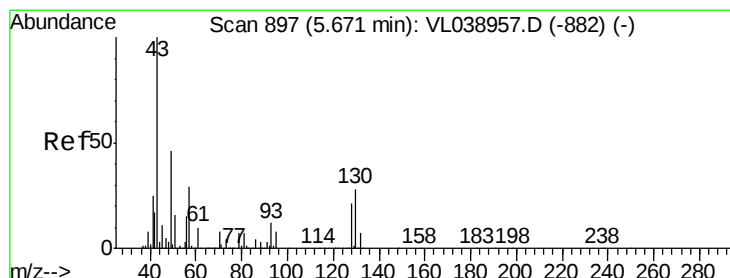
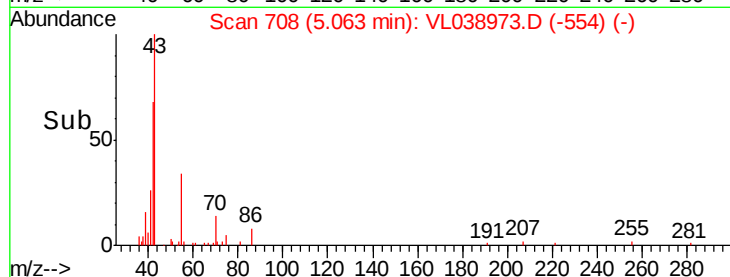
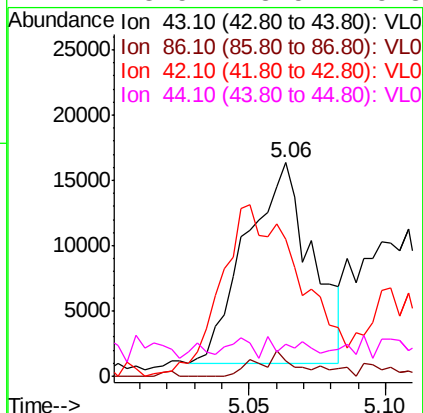
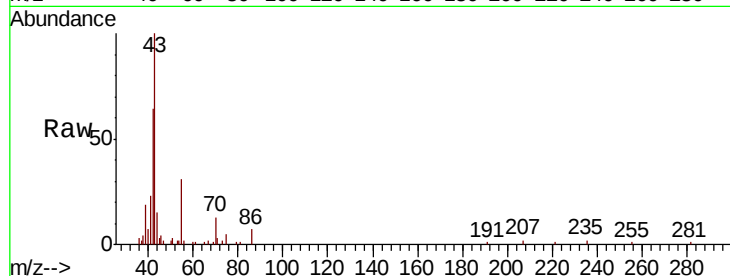
86 68.4 53.8 80.6





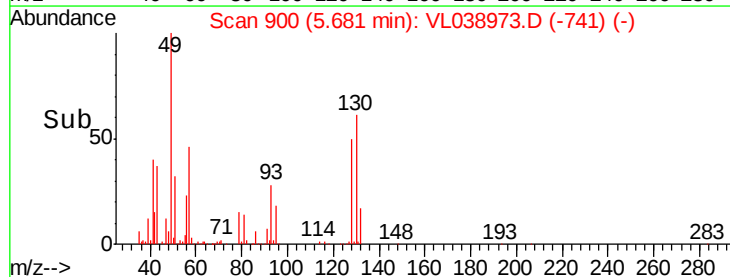
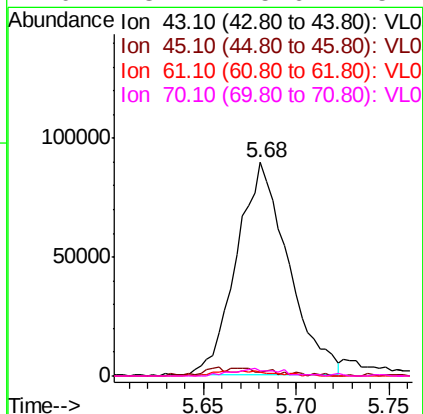
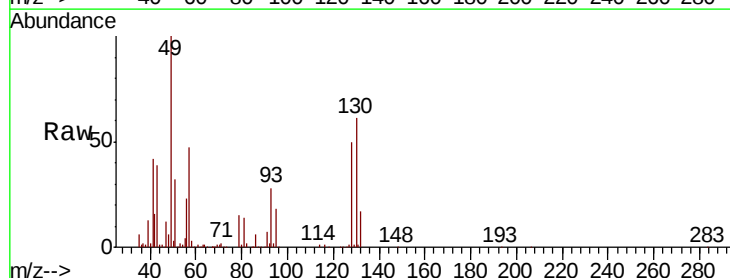
#23
 Vinyl Acetate
 Concen: 0.290 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 15:21

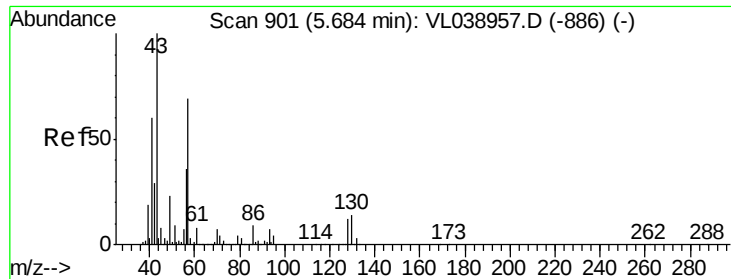
Tot Ion:	43	Resp:	25655
Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.6	9.8
42	62.3	8.1	12.1#
44	3.5	3.5	5.3



#25
 Ethyl Acetate
 Concen: 0.643 ppbv
 RT: 5.68 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VL038973.D
 Acq: 5 May 2022 15:21

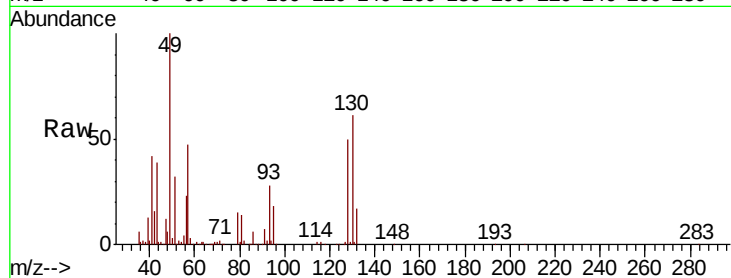
Tgt Ion:	43	Resp:	171798
Ion	Ratio	Lower	Upper
43	100		
45	5.2	8.1	12.1#
61	2.9	7.8	11.6#
70	3.4	5.6	8.4#



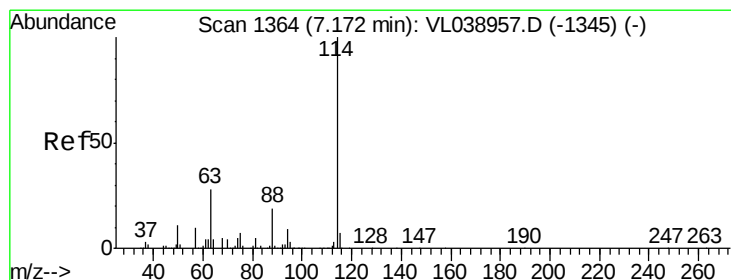
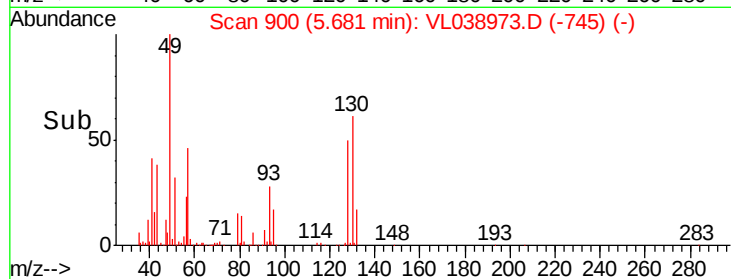
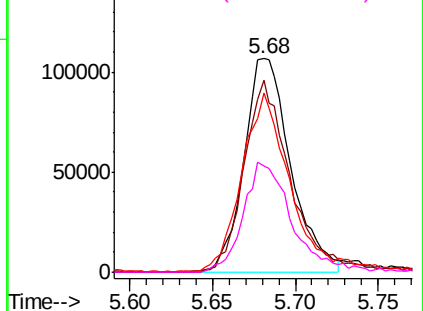


#26
Hexane
Concen: 1.769 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 15:21

Tot Ion:	57	Resp:	210046
Ion	Ratio	Lower	Upper
57	100		
41	90.8	75.2	112.8
43	89.6	190.8	286.2#
56	54.4	43.0	64.6

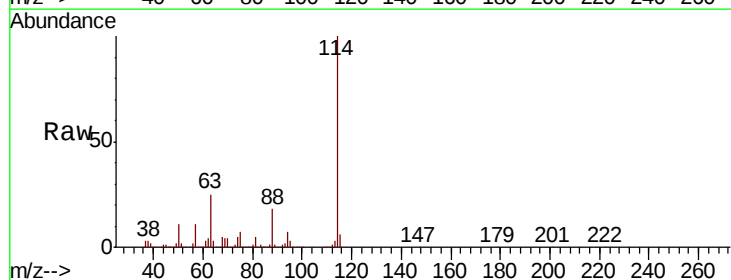


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

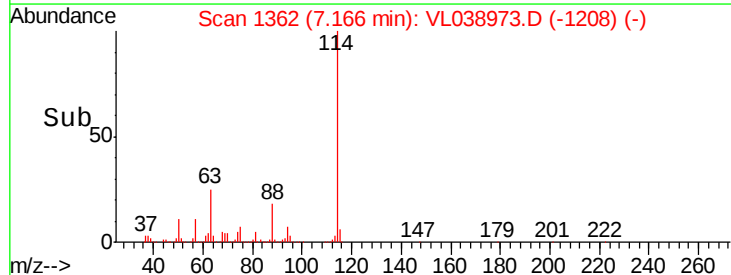
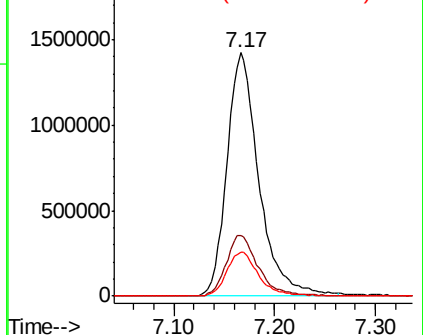


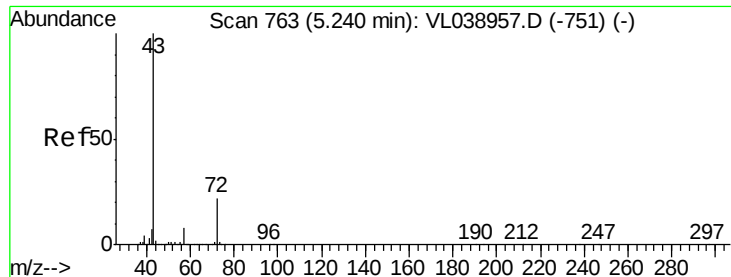
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.01 min
Lab File: VL038973.D
Acq: 5 May 2022 15:21

Tgt Ion:	114	Resp:	3143841
Ion	Ratio	Lower	Upper
114	100		
63	25.4	22.6	33.8
88	18.4	15.4	23.0



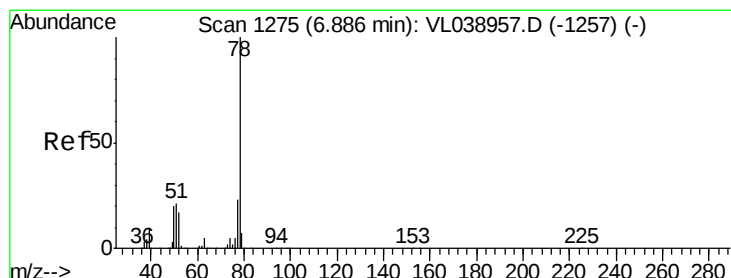
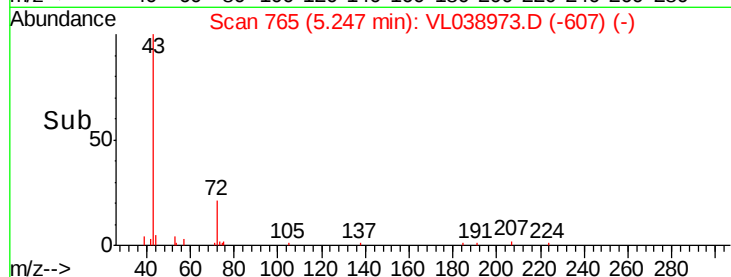
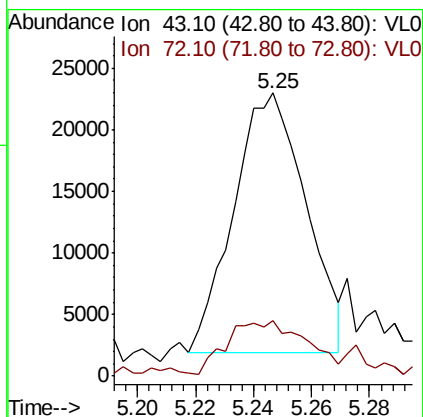
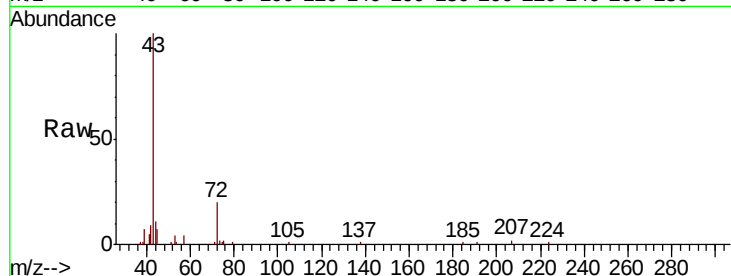
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





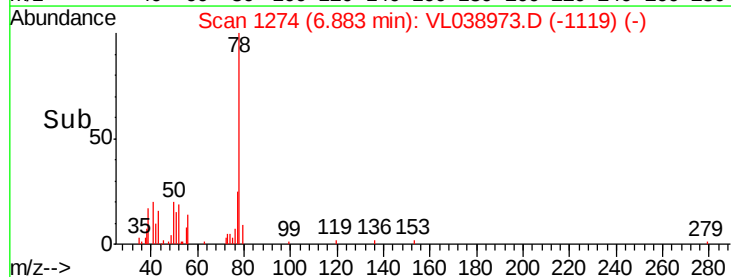
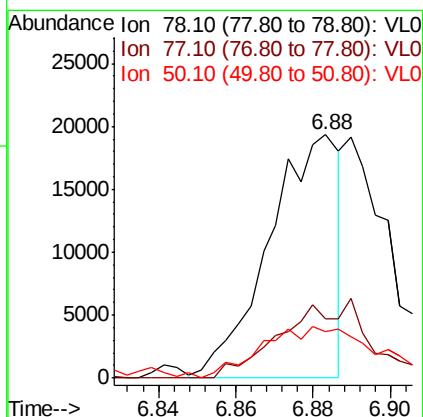
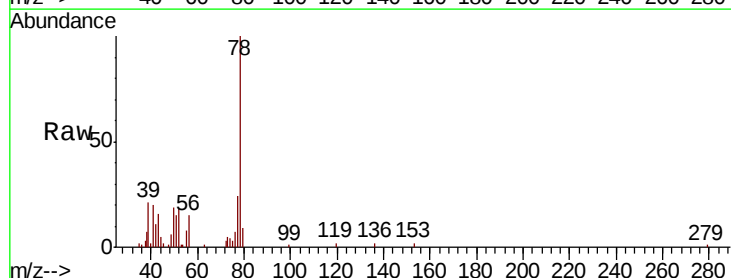
#34
 2-Butanone
 Concen: 0.227 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 15:21

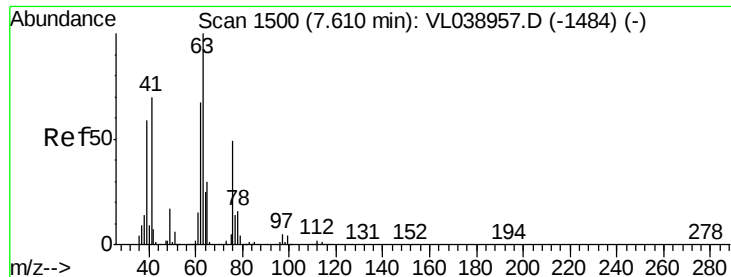
Tot Ion: 43 Resp: 36458
 Ion Ratio Lower Upper
 43 100
 72 32.9 17.8 26.6#



#36
 Benzene
 Concen: 0.091 ppbv
 RT: 6.88 min Scan# 1274
 Delta R.T. -0.00 min
 Lab File: VL038973.D
 Acq: 5 May 2022 15:21

Tgt Ion: 78 Resp: 24450
 Ion Ratio Lower Upper
 78 100
 77 24.6 18.6 28.0
 50 17.0 15.6 23.4





#39

1,2-Dichloropropane

Concen: 7.502 ppbv

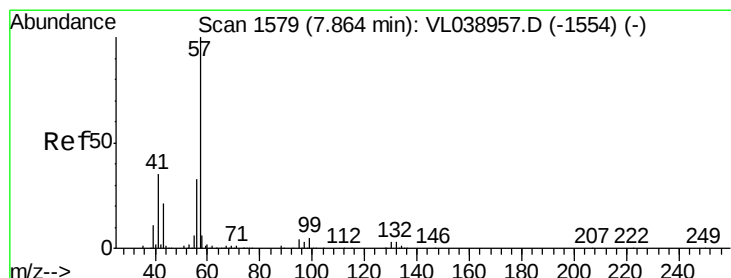
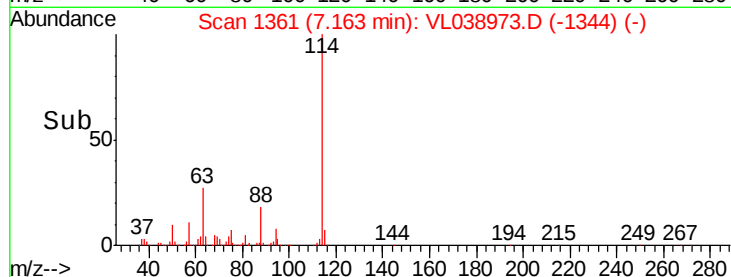
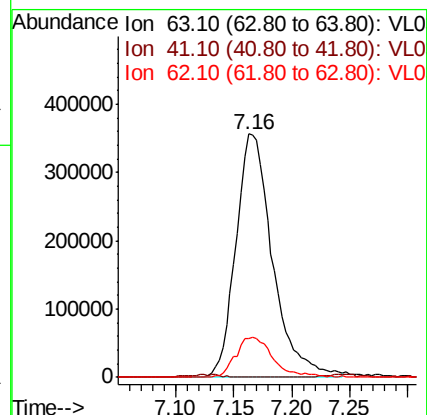
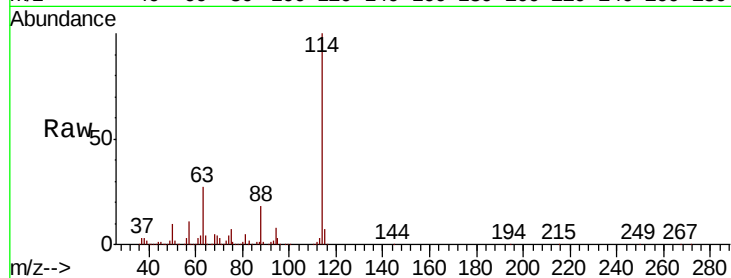
RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 15:21

Tot Ion:	63	Resp:	785347
Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	16.0	53.8	80.6#



#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

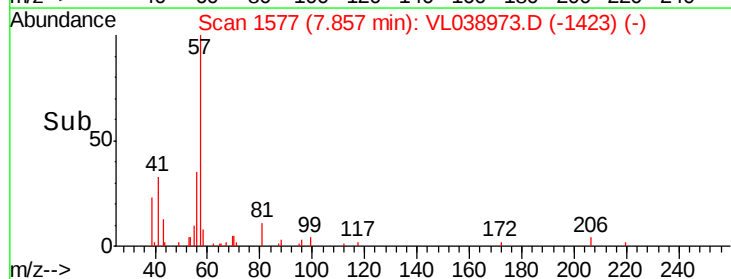
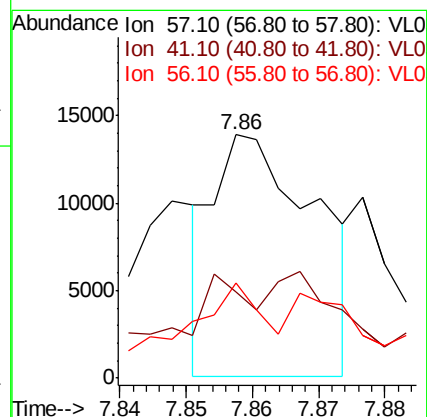
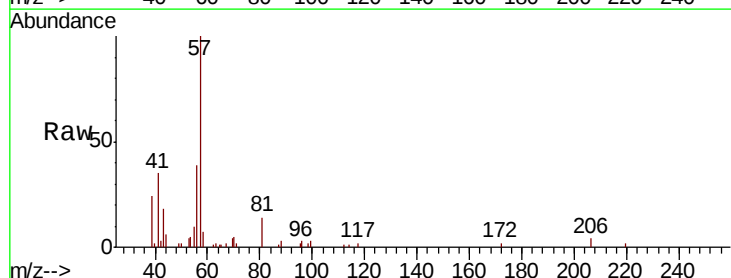
RT: 7.86 min Scan# 1577

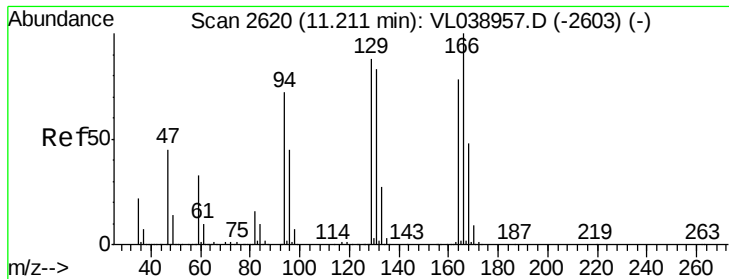
Delta R.T. -0.01 min

Lab File: VL038973.D

Acq: 5 May 2022 15:21

Tgt Ion:	57	Resp:	14705
Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.3	39.5#
56	86.3	24.6	37.0#





#52

Tetrachloroethene

Concen: 0.178 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 15:21

Tot Ion:164 Resp: 17136

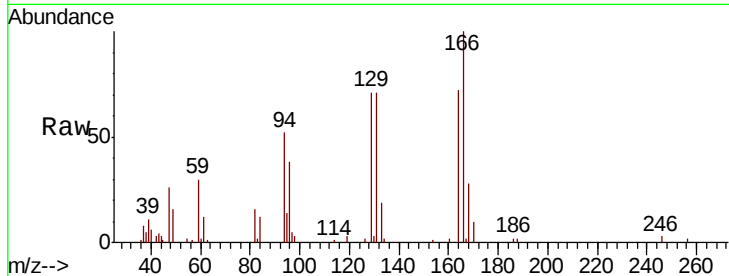
Ion Ratio Lower Upper

164 100

166 129.8 102.5 153.7

129 97.3 90.1 135.1

131 91.8 84.8 127.2



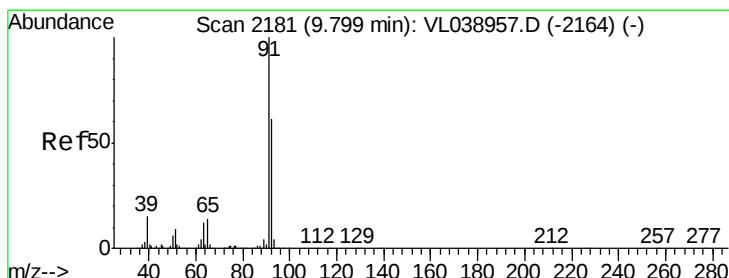
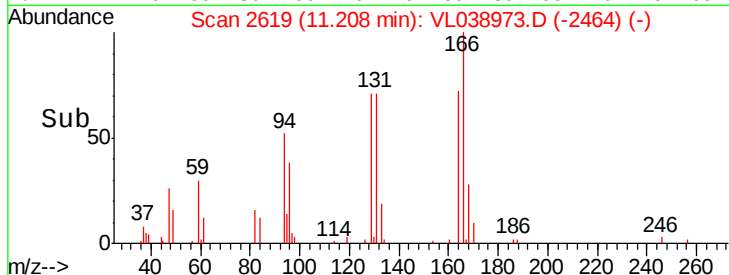
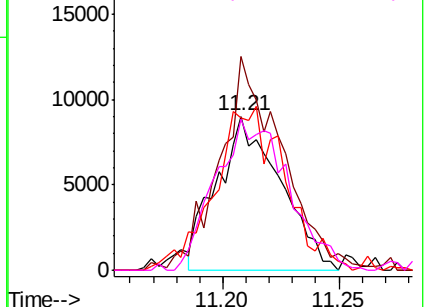
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.379 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL038973.D

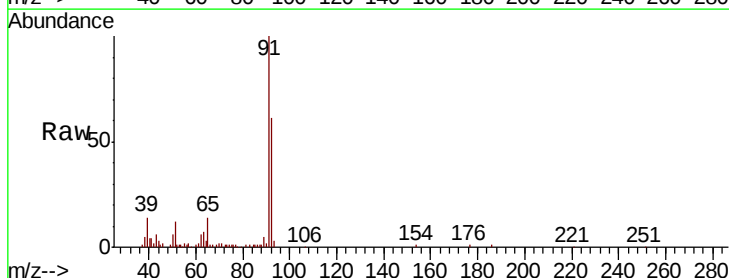
Acq: 5 May 2022 15:21

Tgt Ion: 91 Resp: 114402

Ion Ratio Lower Upper

91 100

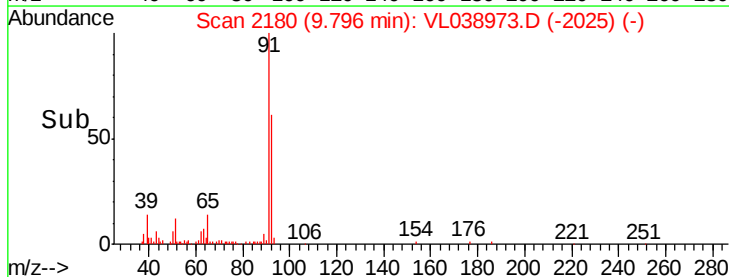
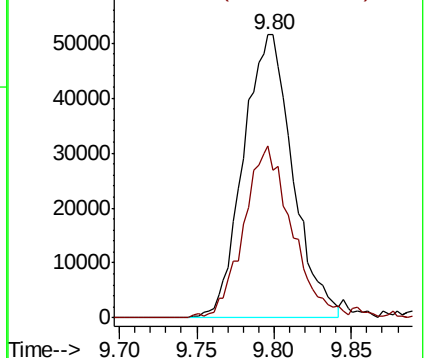
92 60.8 48.2 72.2

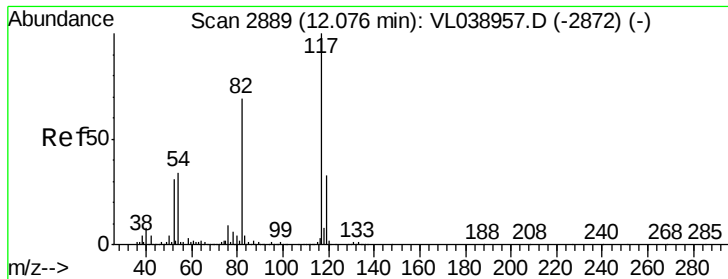


Abundance

Ion 91.10 (90.80 to 91.80): VL0

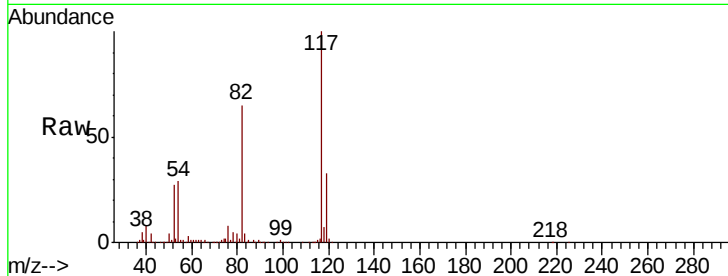
Ion 92.10 (91.80 to 92.80): VL0



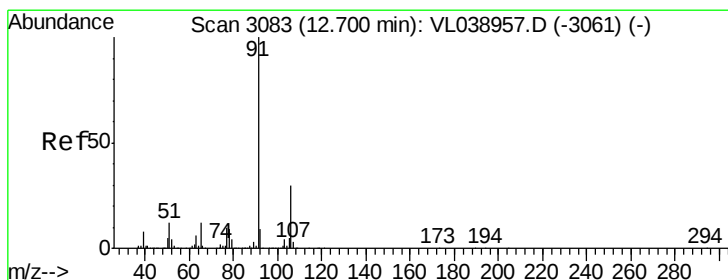
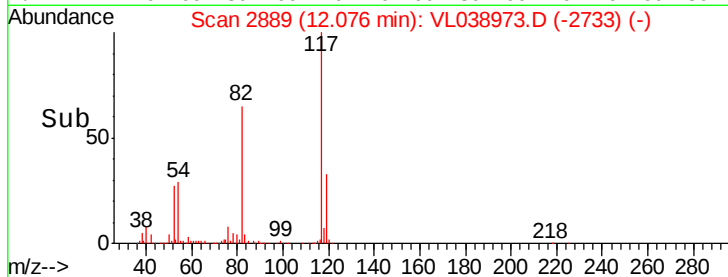
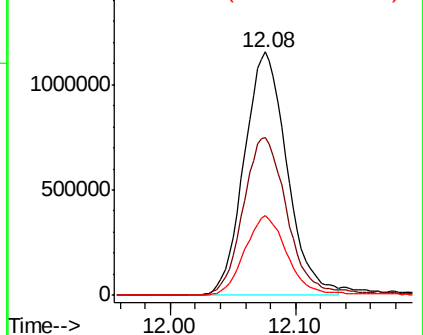


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 5 May 2022 15:21

Tot Ion:117 Resp: 2737497
Ion Ratio Lower Upper
117 100
82 69.6 57.0 85.6
119 33.2 27.2 40.8

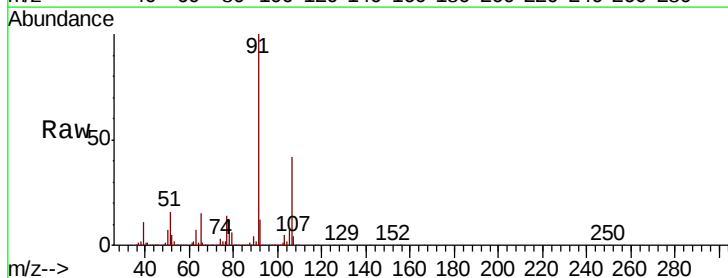


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

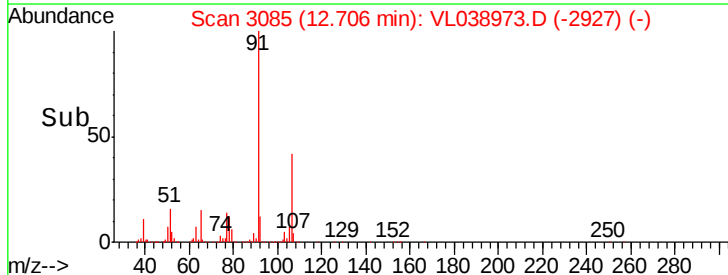
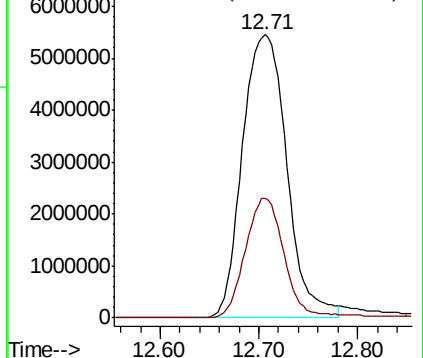


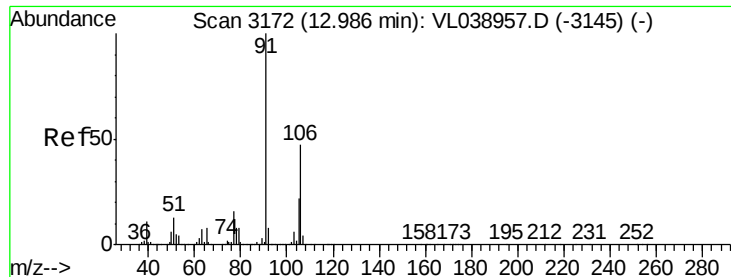
#58
Ethyl Benzene
Concen: 43.056 ppbv
RT: 12.71 min Scan# 3085
Delta R.T. 0.01 min
Lab File: VL038973.D
Acq: 5 May 2022 15:21

Tgt Ion: 91 Resp:16962424
Ion Ratio Lower Upper
91 100
106 42.2 24.2 36.4#



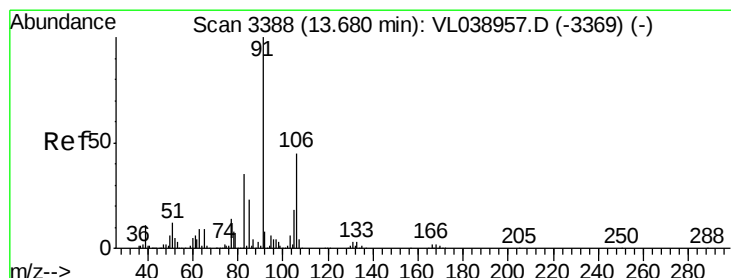
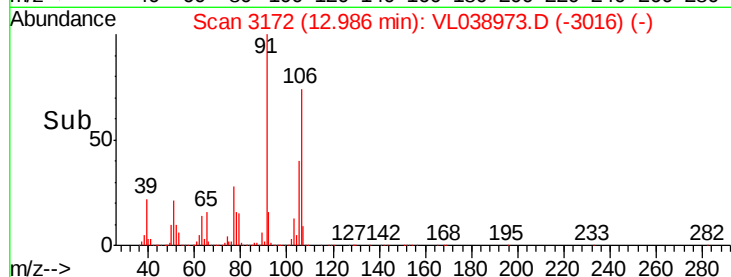
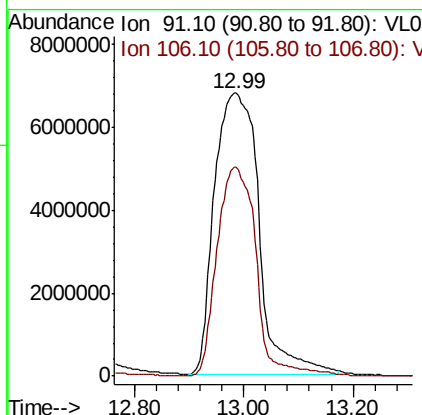
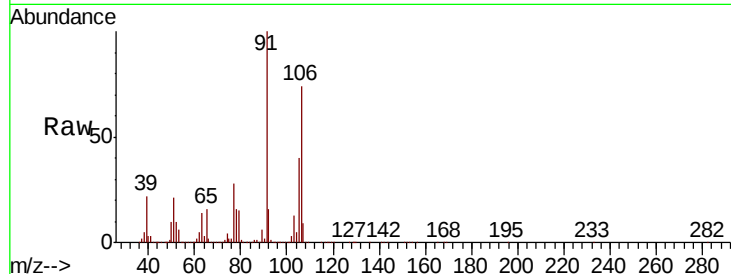
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





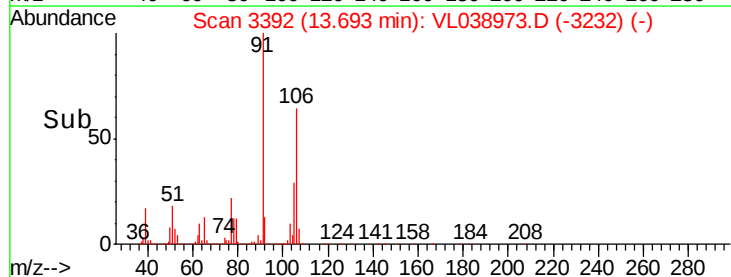
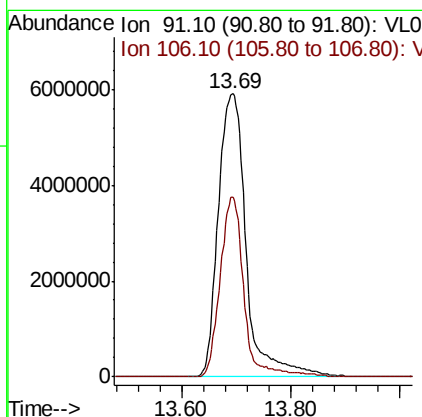
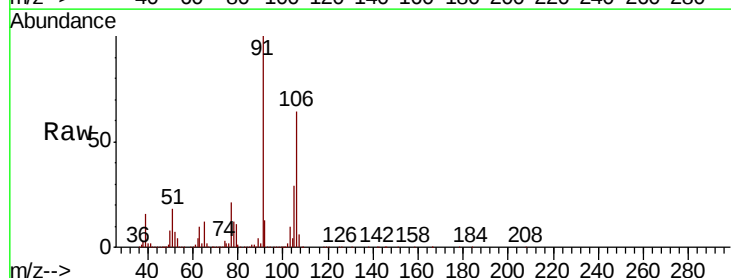
#59
m/p-Xylene
Concen: 114.062 ppbv
RT: 12.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 15:21

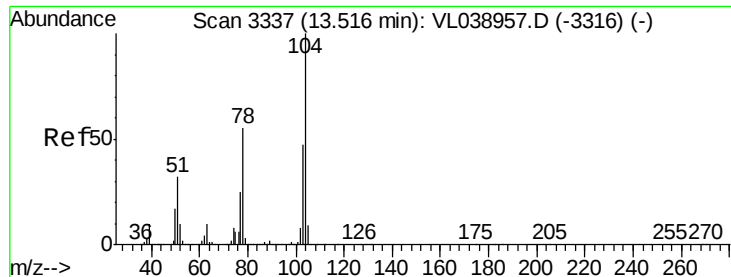
Tot Ion: 91 Resp:38361446
Ion Ratio Lower Upper
91 100
106 65.4 34.6 52.0#



#60
o-Xylene
Concen: 66.068 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VL038973.D
Acq: 5 May 2022 15:21

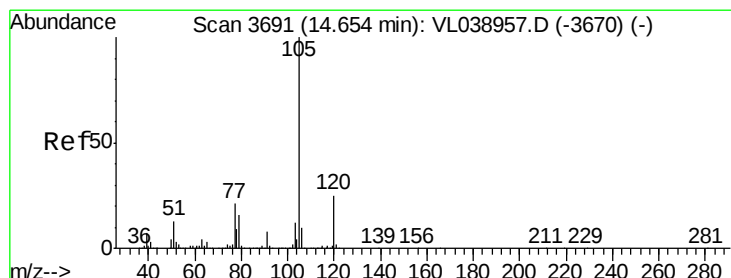
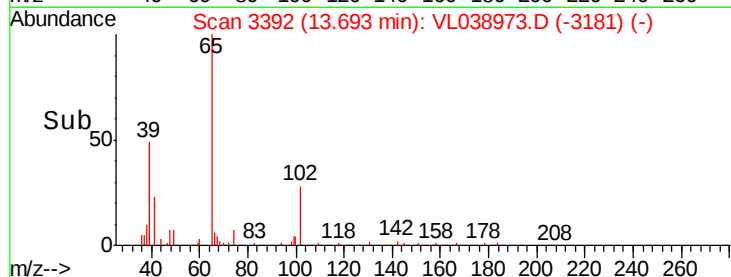
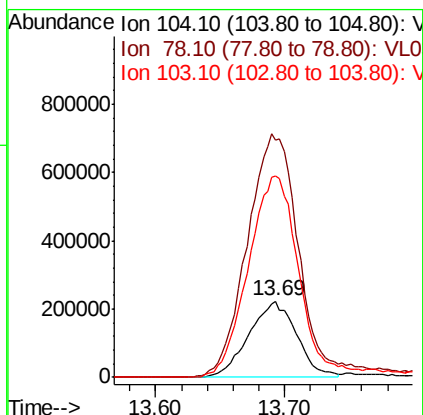
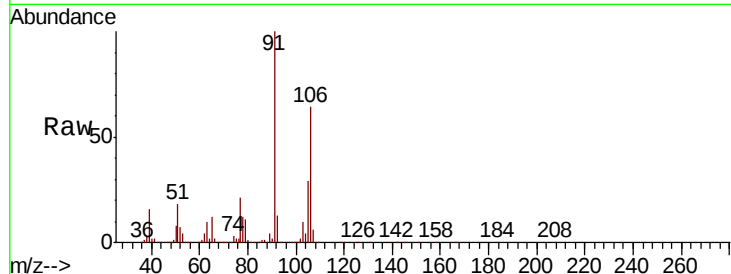
Tgt Ion: 91 Resp:20913653
Ion Ratio Lower Upper
91 100
106 54.4 22.2 66.6





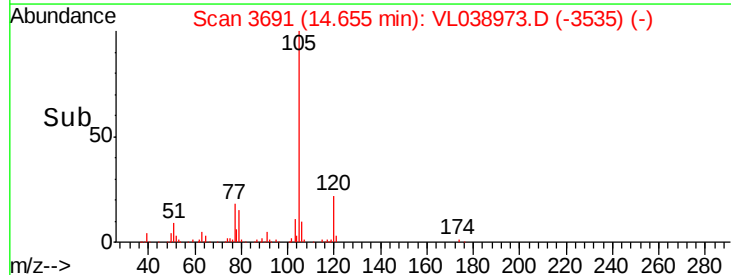
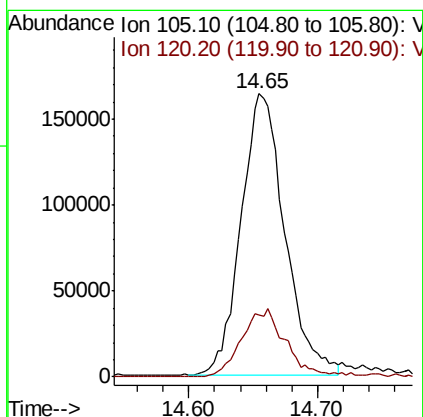
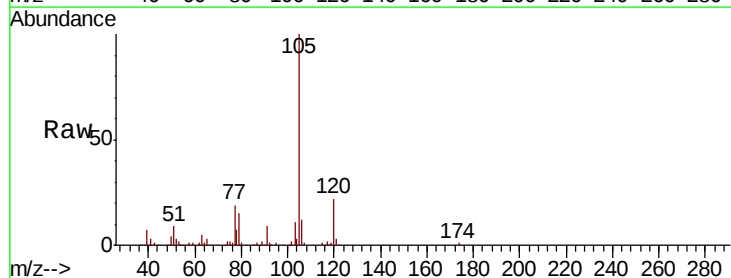
#61
Stvrene
Concen: 3.384 ppbv
RT: 13.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 5 May 2022 15:21

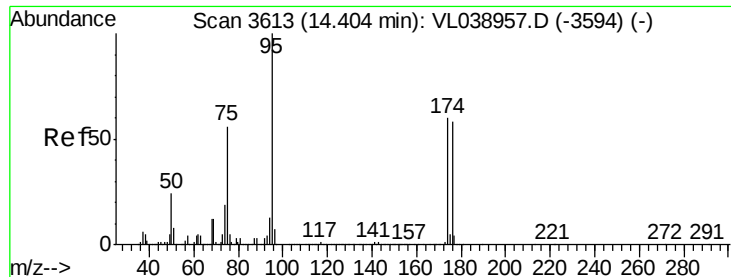
Tot Ion	Ratio	Lower	Upper
104	100		
78	361.7	46.4	69.6#
103	296.1	39.3	58.9#



#62
Isopropylbenzene
Concen: 0.959 ppbv
RT: 14.65 min Scan# 3691
Delta R.T.: 0.00 min
Lab File: VL038973.D
Acq: 5 May 2022 15:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	20.5	30.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.209 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampled :

Acq: 5 May 2022 15:21

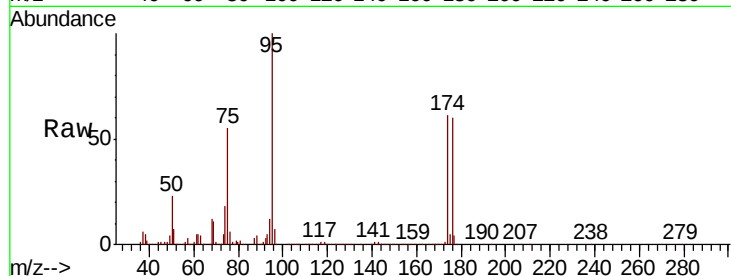
Tot Ion: 95 Resp: 2213320

Ion Ratio Lower Upper

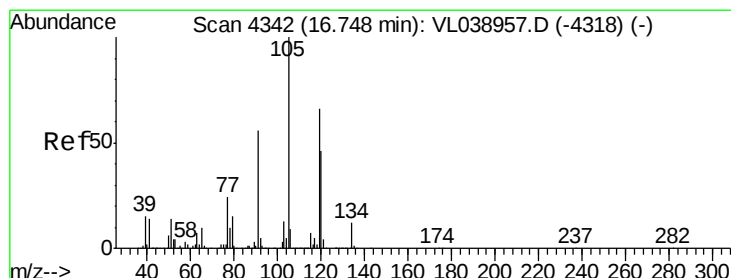
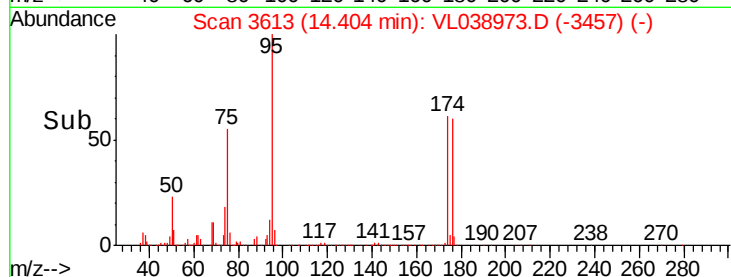
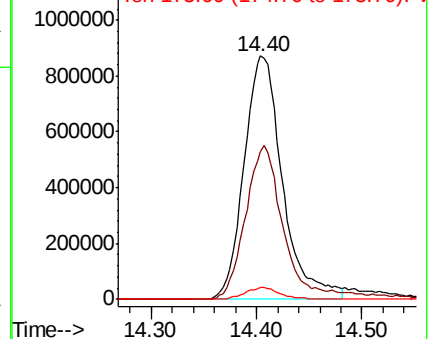
95 100

174 65.0 50.8 76.2

175 4.6 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.057 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. -0.00 min

Lab File: VL038973.D

Acq: 5 May 2022 15:21

Tgt Ion: 105 Resp: 20270

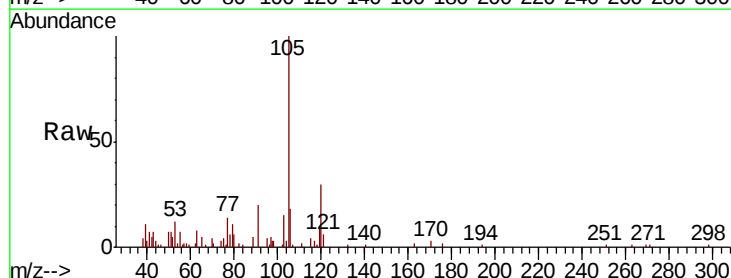
Ion Ratio Lower Upper

105 100

120 31.1 36.9 55.3#

91 4.5 45.0 67.4#

77 10.2 19.2 28.8#



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

