

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038977.D
 Acq On : 5 May 2022 18:01
 Operator : SY/AP
 Sample : N2698-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 06 07:29:21 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	1178121	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3078972	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2620968	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2016977	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

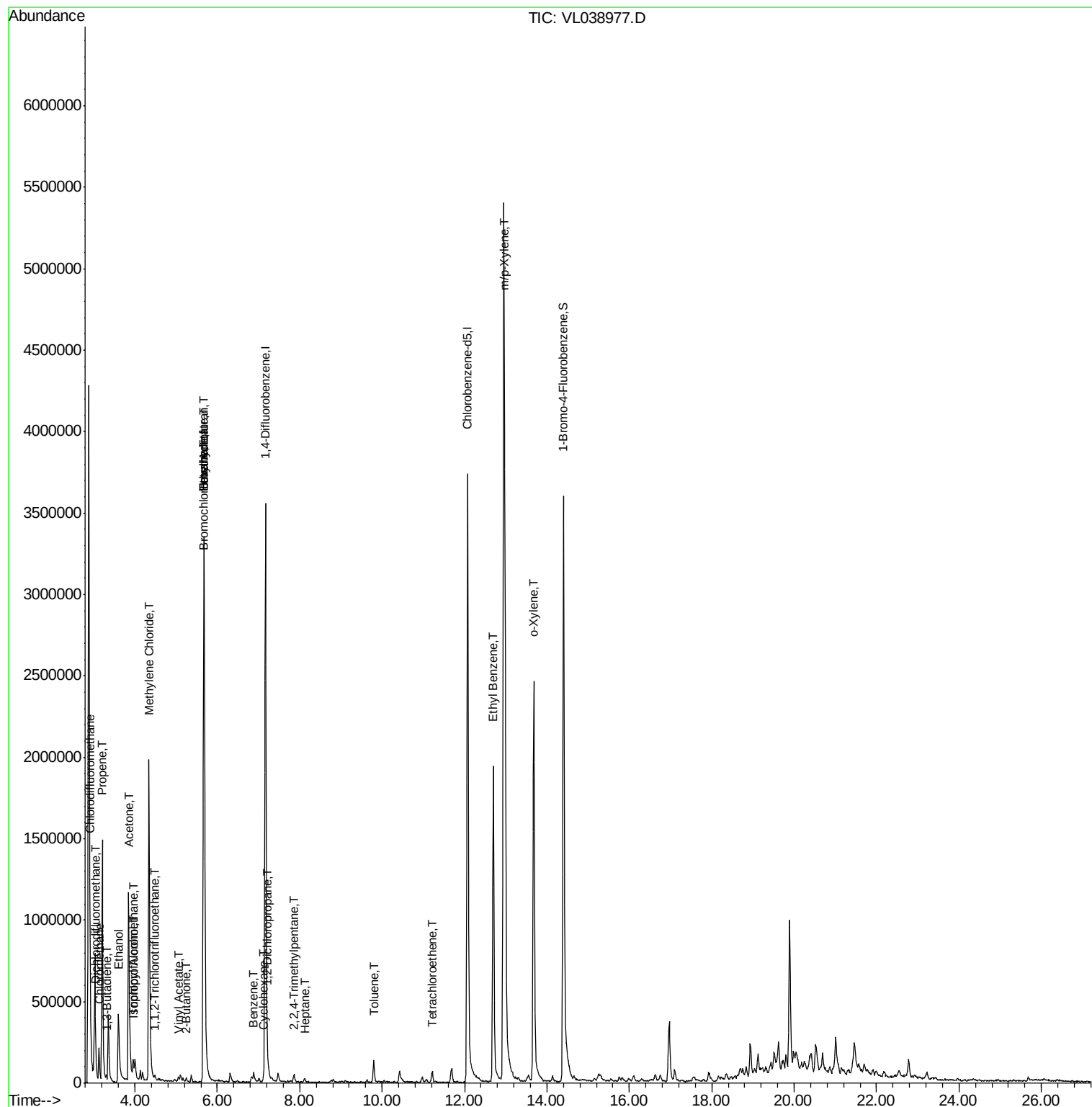
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	56655	0.307 ppbv	90
3) Chlorodifluoromethane	2.91	51	4694	0.032 ppbv	99
4) Chloromethane	3.14	50	33297	0.455 ppbv	96
9) Propene	3.20	41	537280	8.416 ppbv	96
10) Heptane	8.11	43	6038	0.039 ppbv #	27
11) Trichlorofluoromethane	3.95	101	32510	0.205 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4621	0.042 ppbv #	42
13) Ethanol	3.60	45	622307	124.825 ppbv	88
15) Acetone	3.84	43	1553621	13.980 ppbv	99
16) 1,3-Butadiene	3.30	39	6987	0.109 ppbv #	71
19) Isopropyl Alcohol	3.98	45	24530	0.464 ppbv #	95
20) Methylene Chloride	4.34	84	809548	19.328 ppbv	94
23) Vinyl Acetate	5.07	43	3534	0.040 ppbv #	83
25) Ethyl Acetate	5.68	43	836612	3.145 ppbv #	80
26) Hexane	5.68	57	1196672	10.125 ppbv #	37
30) Cyclohexane	7.12	84	4766	0.048 ppbv #	1
34) 2-Butanone	5.25	43	31587	0.201 ppbv #	90
36) Benzene	6.88	78	38764	0.147 ppbv #	92
39) 1,2-Dichloropropane	7.22	63	12479	0.122 ppbv #	27
41) Tetrahydrofuran	5.68	42	425887	4.034 ppbv #	50
44) 2,2,4-Trimethylpentane	7.86	57	15130	0.033 ppbv #	1
52) Tetrachloroethene	11.21	164	10061	0.107 ppbv	90
53) Toluene	9.80	91	98851	0.335 ppbv	99
58) Ethyl Benzene	12.70	91	1947219	5.162 ppbv	99
59) m/p-Xylene	12.95	91	6423695	19.949 ppbv	92
60) o-Xylene	13.68	91	2193885	7.239 ppbv	99

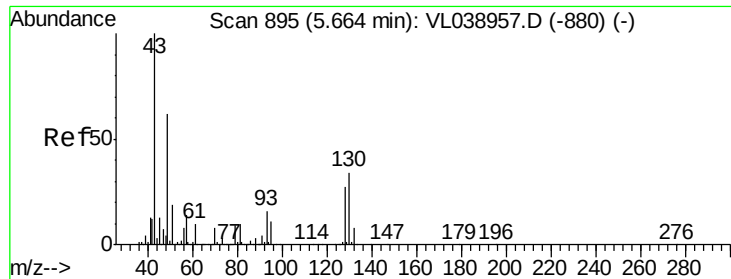
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050522\
Data File : VL038977.D
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MSVOA_L
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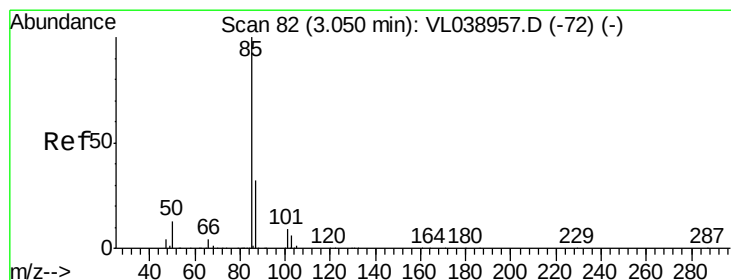
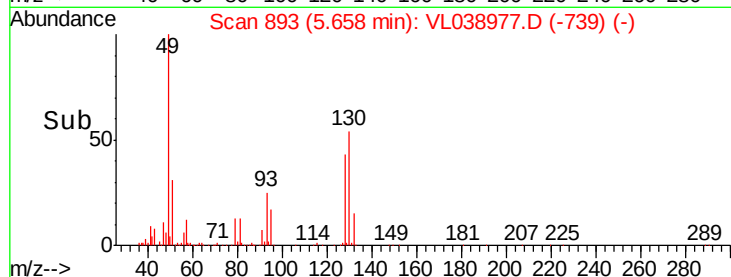
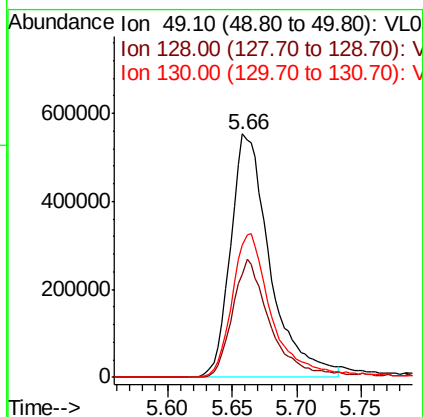
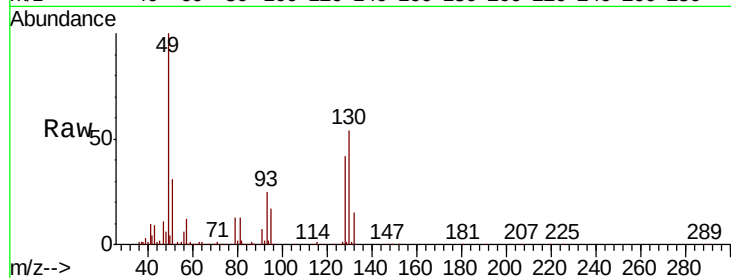
Quant Time: May 06 07:29:21 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
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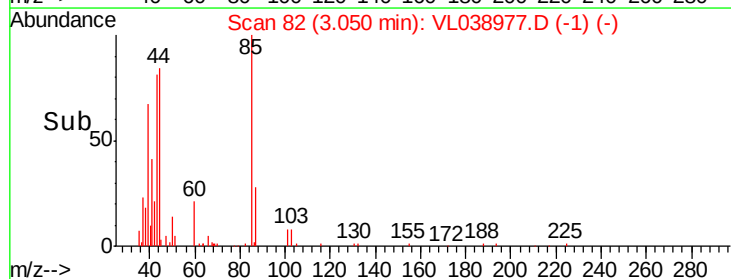
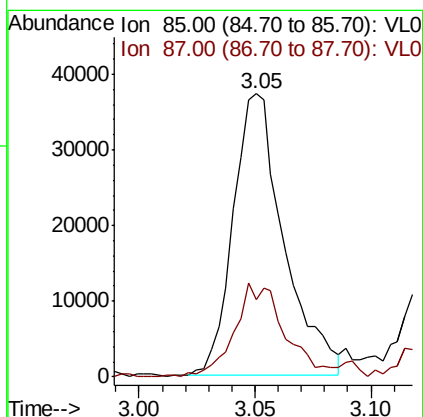
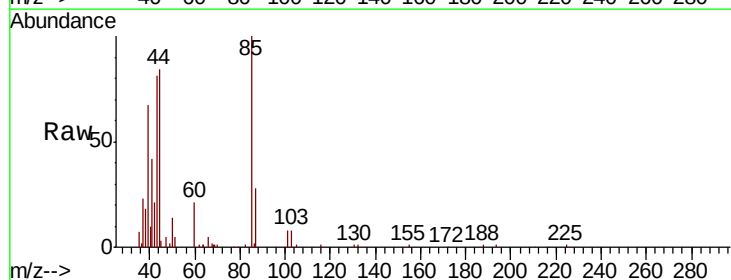
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 5 May 2022 18:01

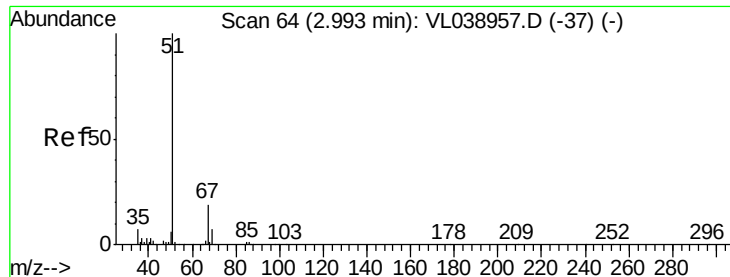
Tot Ion: 49 Resp: 1178121
 Ion Ratio Lower Upper
 49 100
 128 48.5 23.3 69.8
 130 60.6 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.307 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. 0.00 min
 Lab File: VL038977.D
 Acq: 5 May 2022 18:01

Tgt Ion: 85 Resp: 56655
 Ion Ratio Lower Upper
 85 100
 87 26.3 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 2.91 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

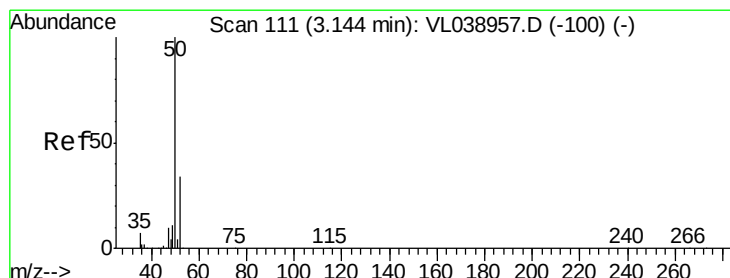
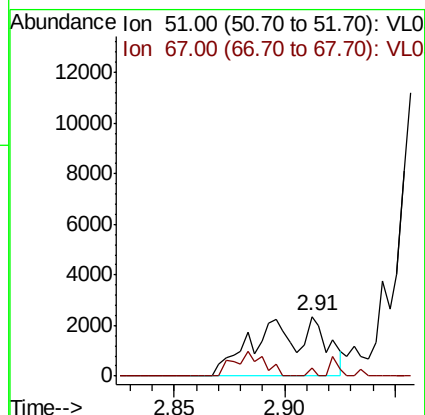
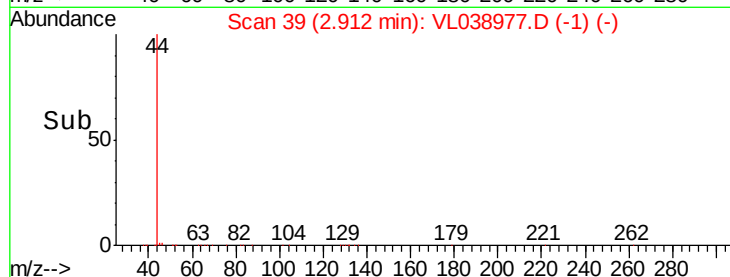
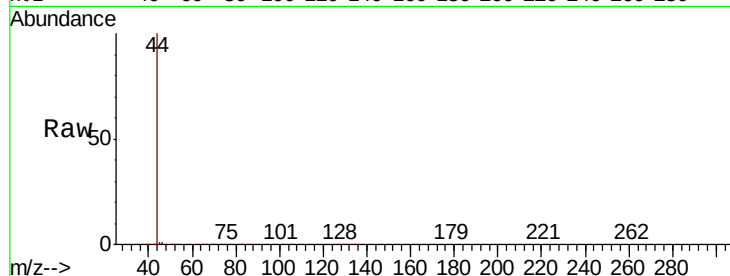
Acq: 5 May 2022 18:01

Tot Ion: 51 Resp: 4694

Ion Ratio Lower Upper

51 100

67 20.4 15.8 23.8



#4

Chloromethane

Concen: 0.455 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL038977.D

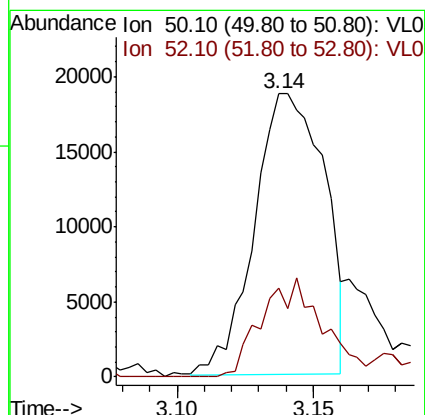
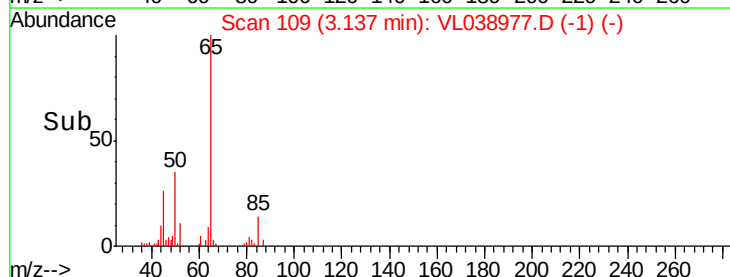
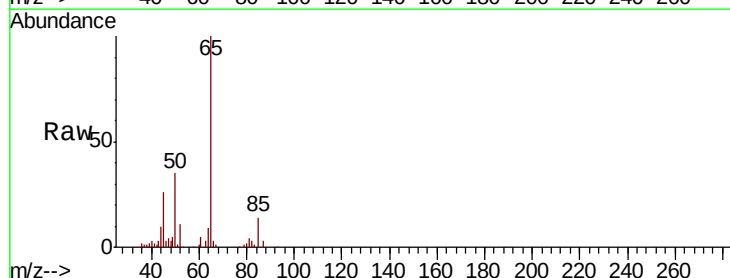
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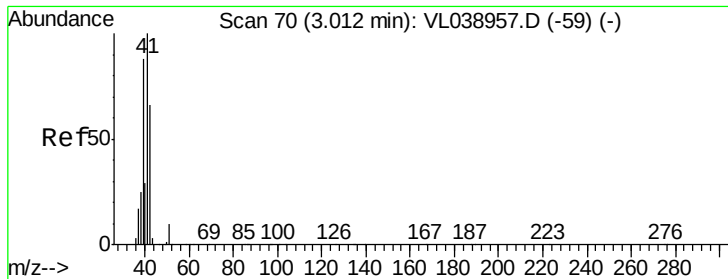
Tgt Ion: 50 Resp: 33297

Ion Ratio Lower Upper

50 100

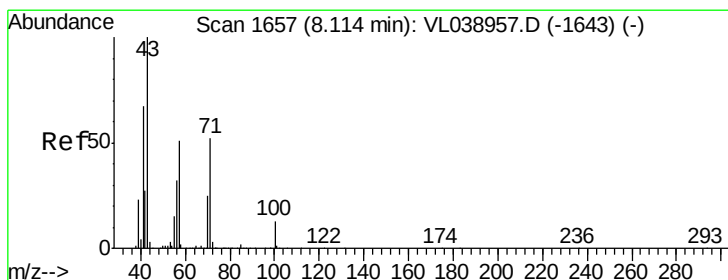
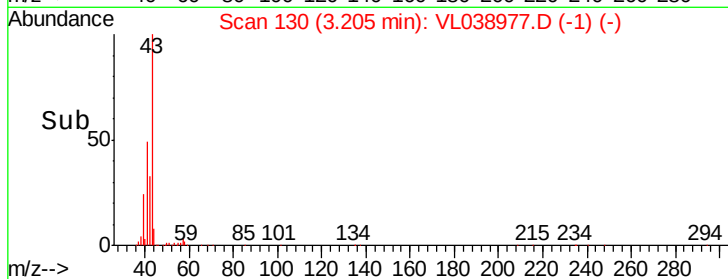
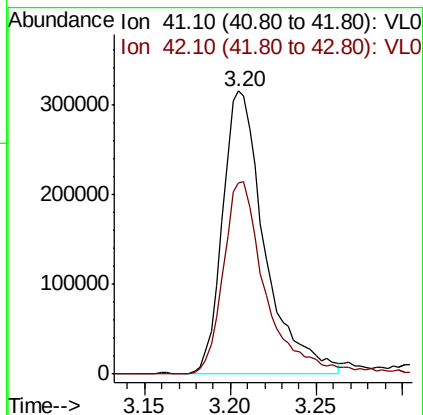
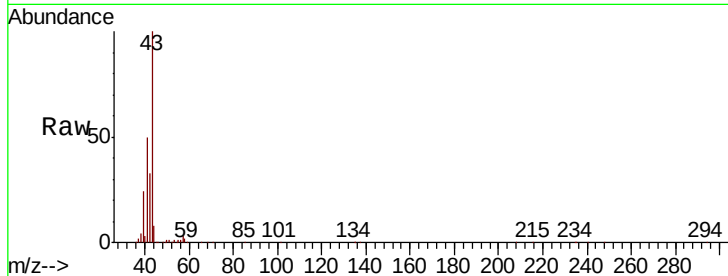
52 31.7 27.3 40.9





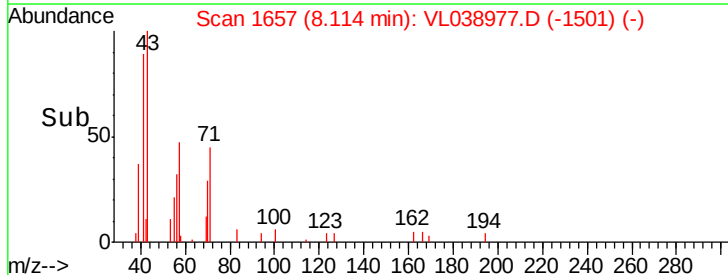
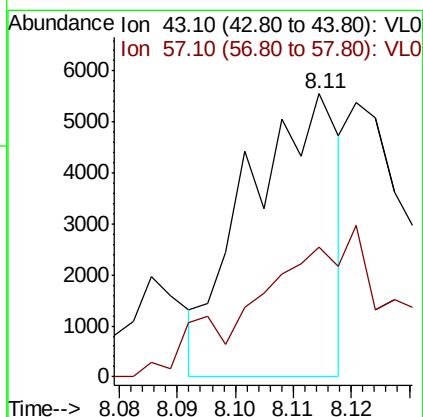
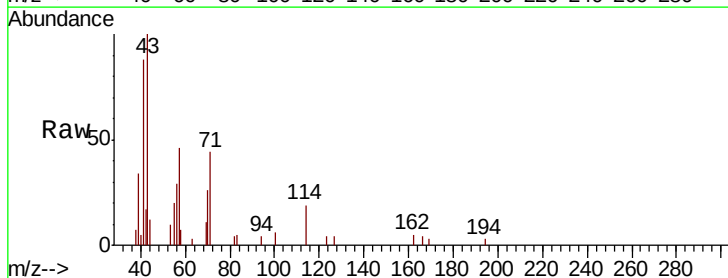
#9
 Propene
 Concen: 8.416 ppbv
 RT: 3.20
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 18:01

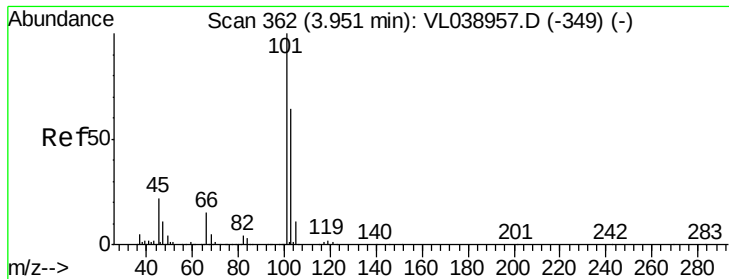
Tot Ion: 41 Resp: 537280
 Ion Ratio Lower Upper
 41 100
 42 69.2 58.3 87.5



#10
 Heptane
 Concen: 0.039 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. 0.00 min
 Lab File: VL038977.D
 Acq: 5 May 2022 18:01

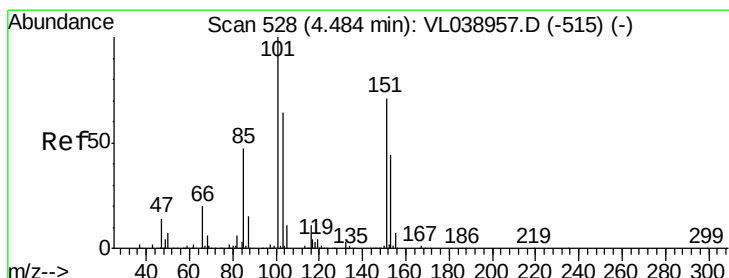
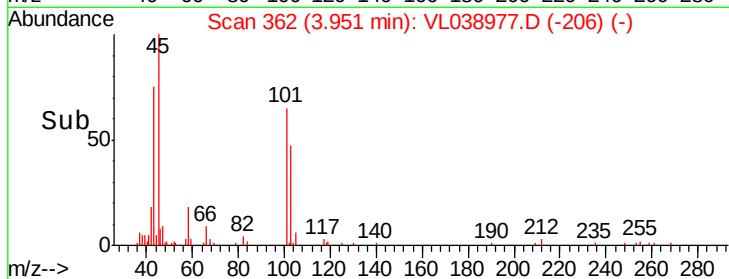
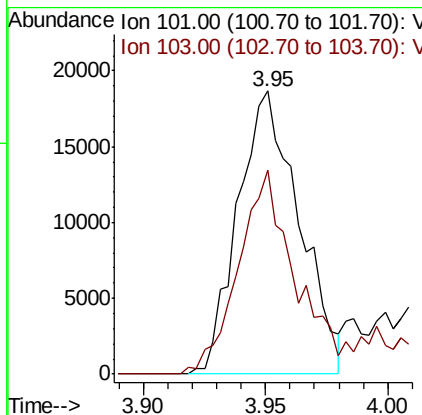
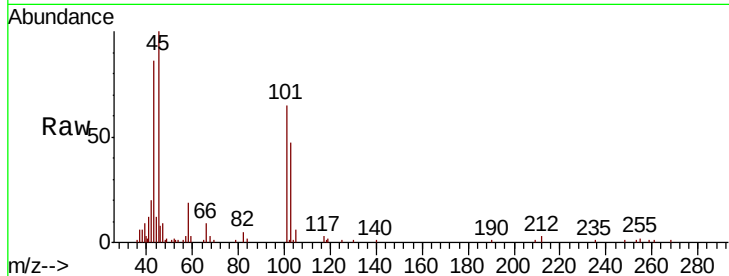
Tgt Ion: 43 Resp: 6038
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7#





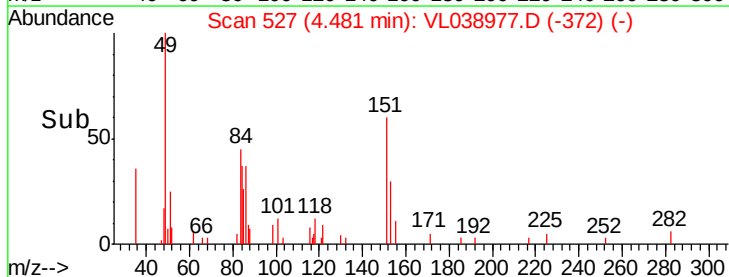
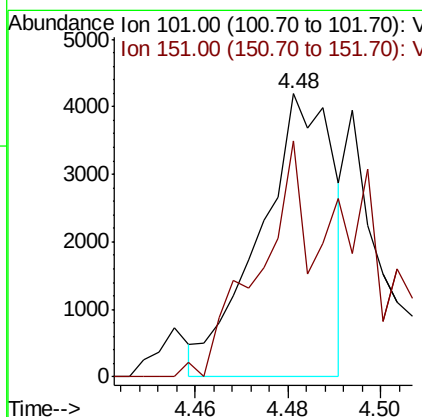
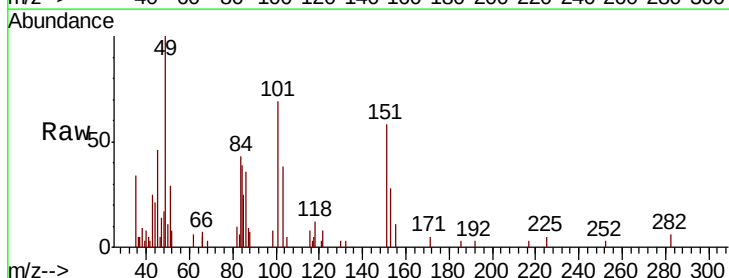
#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 3.95 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 5 May 2022 18:01

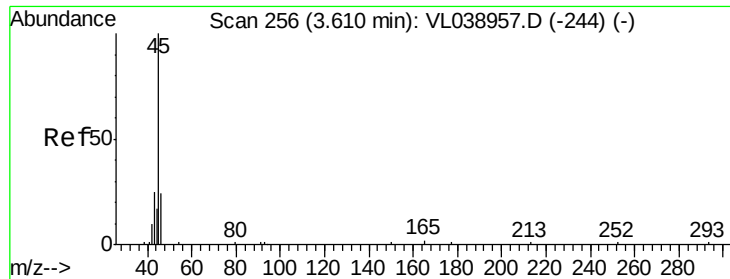
Tot Ion:101 Resp: 32510
 Ion Ratio Lower Upper
 101 100
 103 69.7 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.042 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T.: -0.00 min
 Lab File: VL038977.D
 Acq: 5 May 2022 18:01

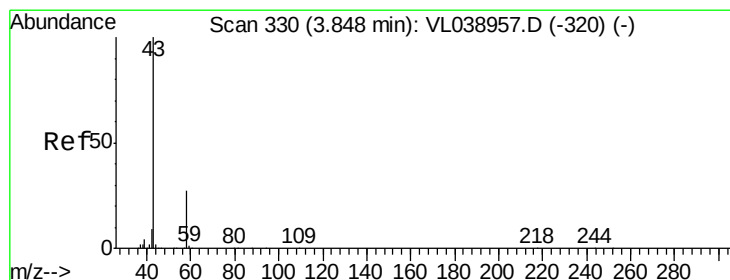
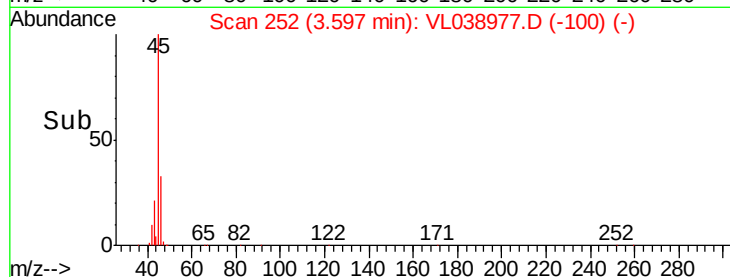
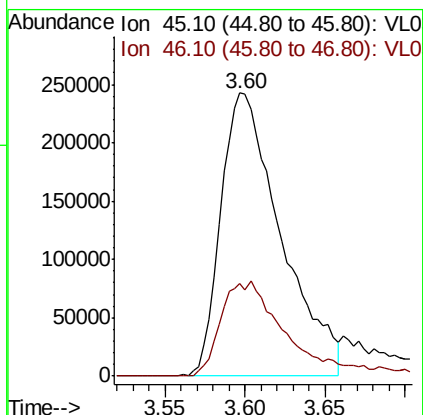
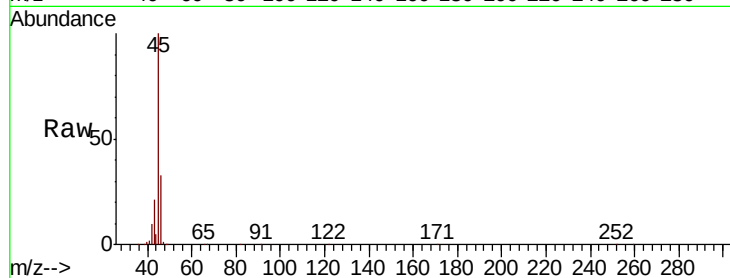
Tgt Ion:101 Resp: 4621
 Ion Ratio Lower Upper
 101 100
 151 116.3 55.4 83.0#





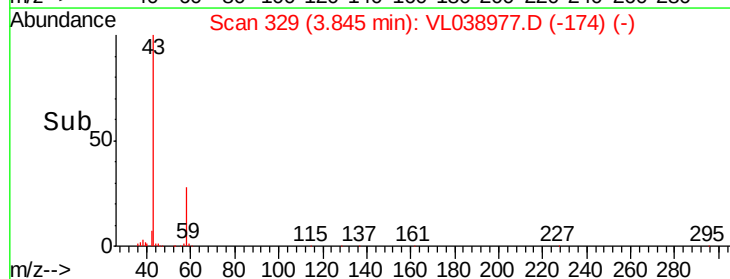
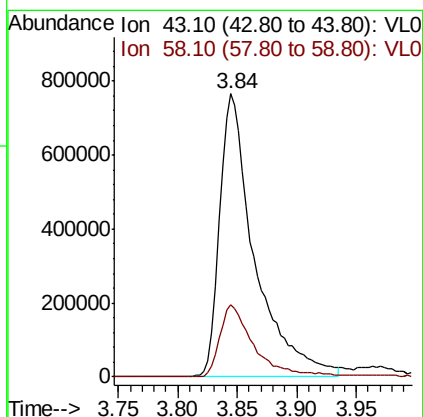
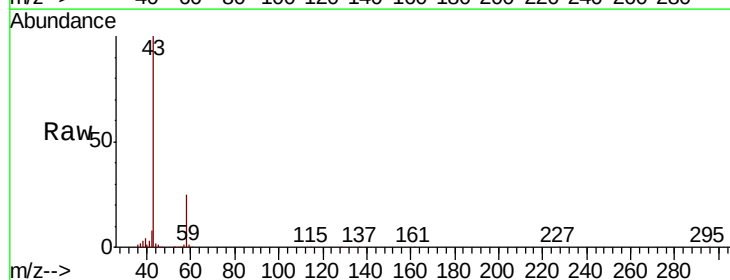
#13
Ethanol
Concen: 124.825 ppbv
RT: 3.60
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 5 May 2022 18:01

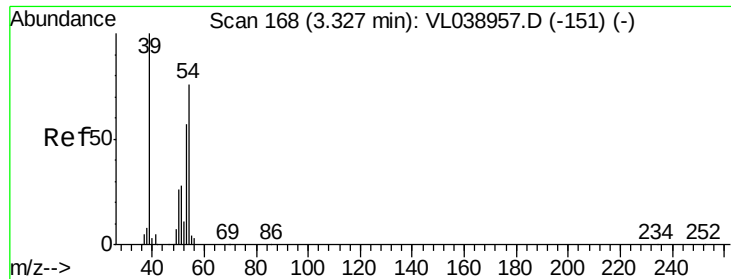
Tot Ion: 45 Resp: 622307
Ion Ratio Lower Upper
45 100
46 37.6 18.0 72.2



#15
Acetone
Concen: 13.980 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL038977.D
Acq: 5 May 2022 18:01

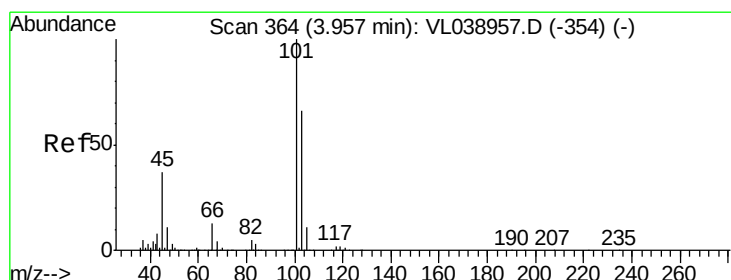
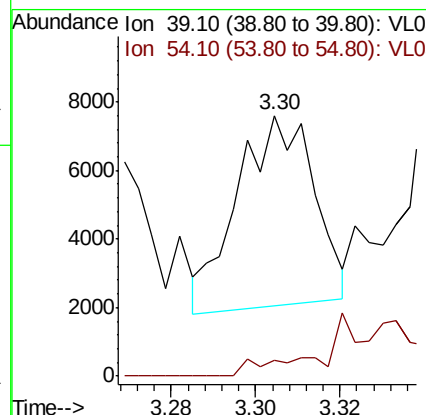
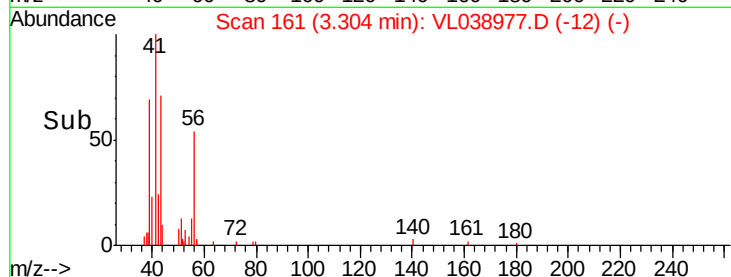
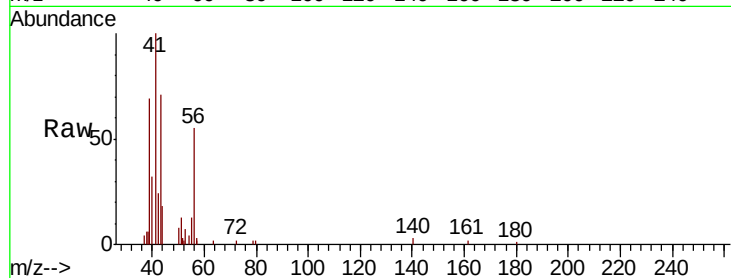
Tgt Ion: 43 Resp: 1553621
Ion Ratio Lower Upper
43 100
58 26.2 21.3 31.9





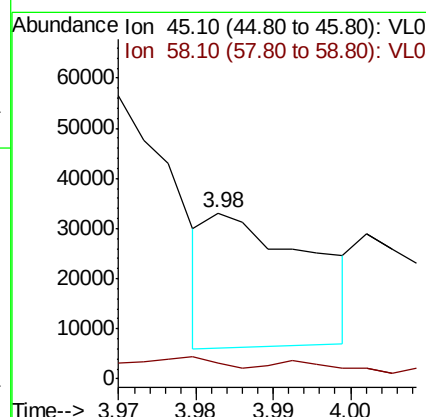
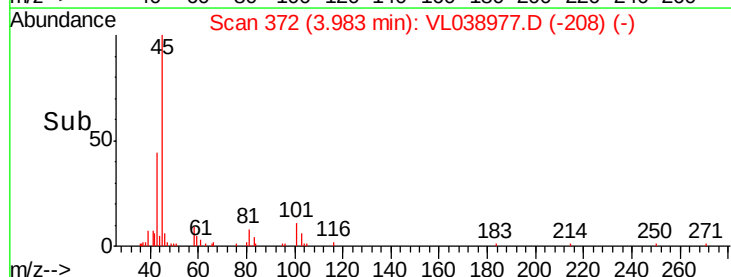
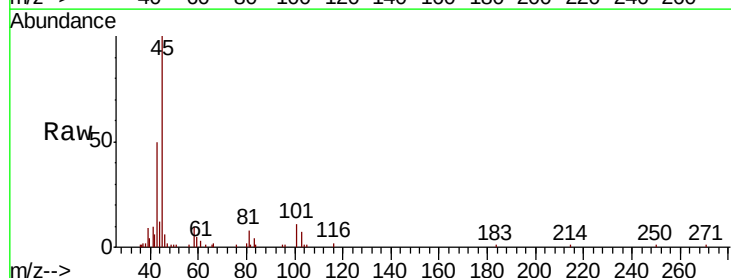
#16
 1,3-Butadiene
 Concen: 0.109 ppbv
 RT: 3.30 Instrument:
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 5 May 2022 18:01

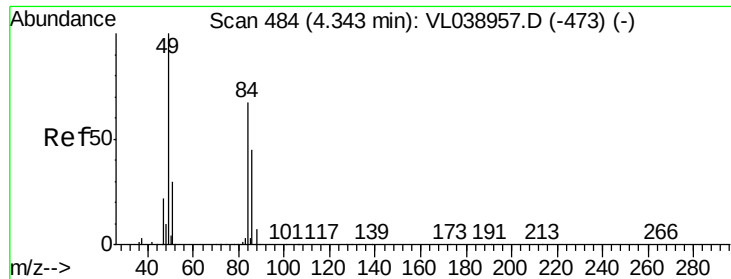
Tot Ion: 39 Resp: 6987
 Ion Ratio Lower Upper
 39 100
 54 56.0 65.2 97.8#



#19
 Isopropyl Alcohol
 Concen: 0.464 ppbv
 RT: 3.98 min Scan# 372
 Delta R.T. 0.03 min
 Lab File: VL038977.D
 Acq: 5 May 2022 18:01

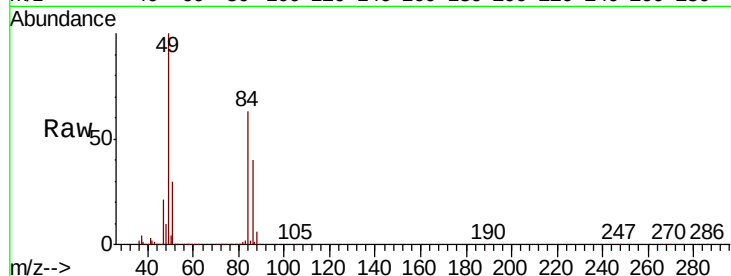
Tgt Ion: 45 Resp: 24530
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#



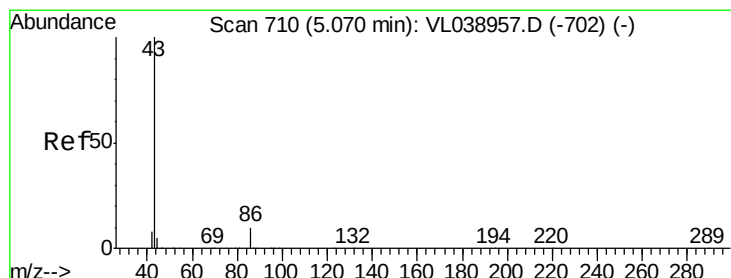
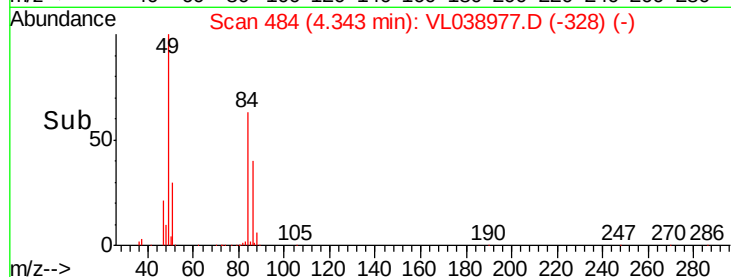
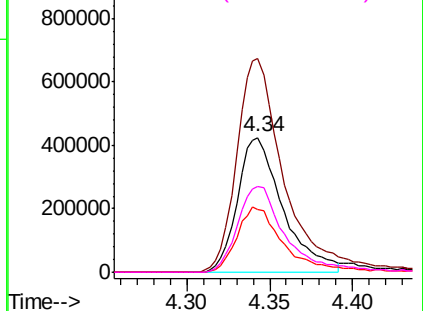


#20
Methvlene Chloride
Concen: 19.328 ppbv
RT: 4.34 Instrument :
Delta R.T. MSVOA.L
Lab File: ClientSampleId :
Acq: 5 May 2022 18:01

Tot Ion:	84	Resp:	809548
Ion	Ratio	Lower	Upper
84	100		
49	158.6	119.9	179.9
51	46.9	35.7	53.5
86	63.9	53.8	80.6

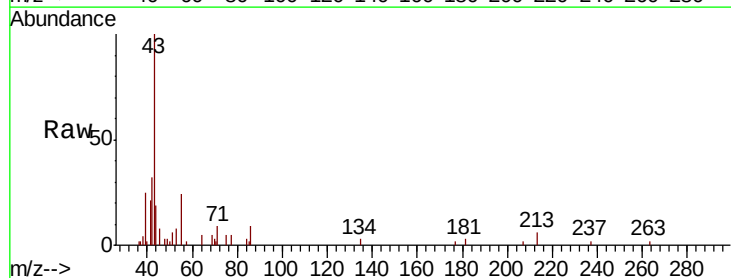


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

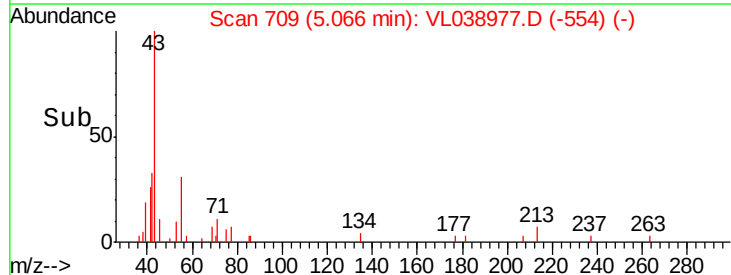
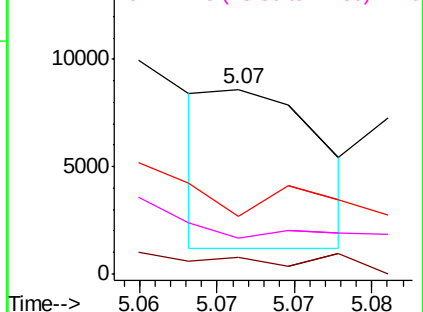


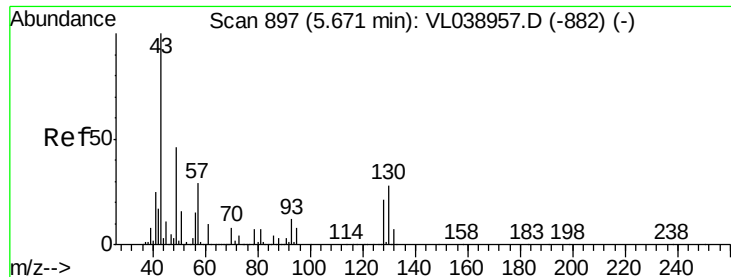
#23
Vinyl Acetate
Concen: 0.040 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.00 min
Lab File: VL038977.D
Acq: 5 May 2022 18:01

Tgt Ion:	43	Resp:	3534
Ion	Ratio	Lower	Upper
43	100		
86	5.5	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





#25

Ethyl Acetate

Concen: 3.145 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 18:01

Tot Ion: 43 Resp: 836612

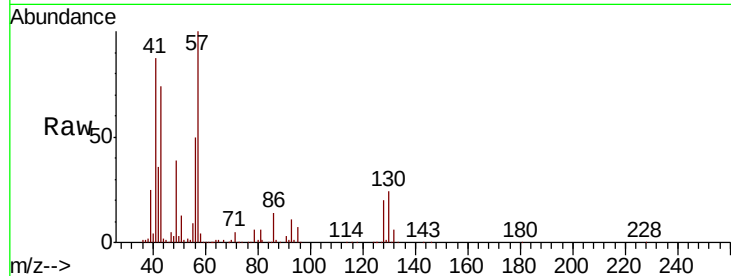
Ion Ratio Lower Upper

43 100

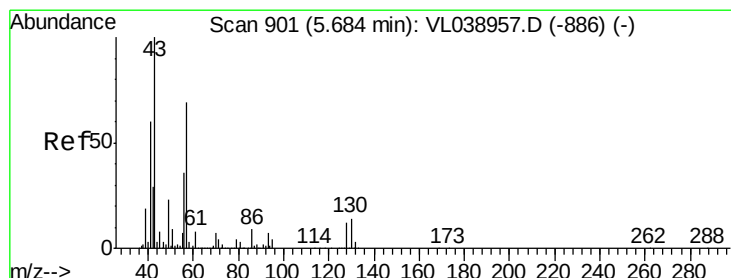
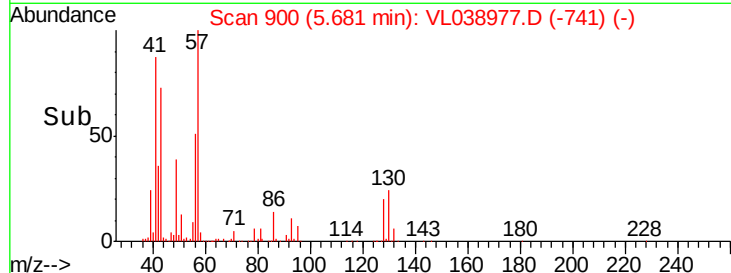
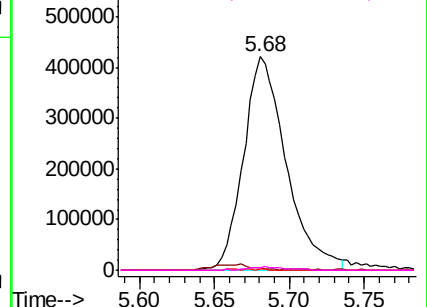
45 3.1 8.1 12.1#

61 0.5 7.8 11.6#

70 1.5 5.6 8.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.125 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL038977.D

Acq: 5 May 2022 18:01

Tgt Ion: 57 Resp: 1196672

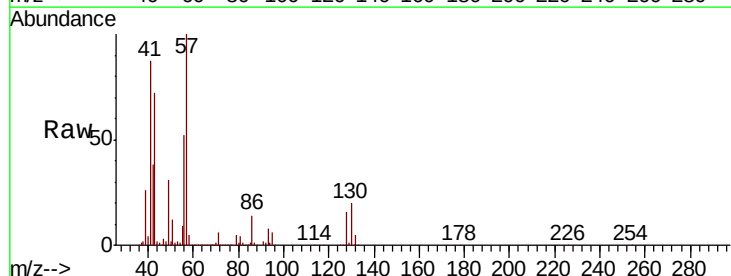
Ion Ratio Lower Upper

57 100

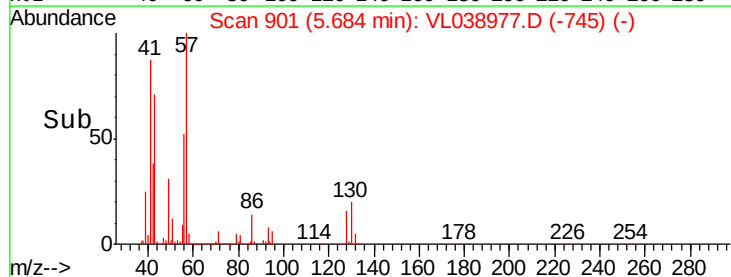
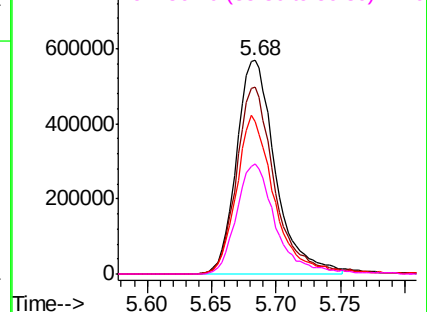
41 87.0 75.2 112.8

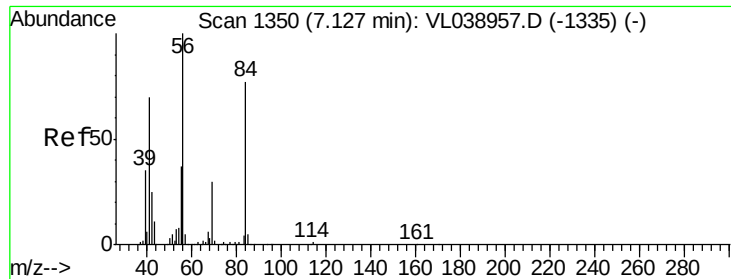
43 72.8 190.8 286.2#

56 52.0 43.0 64.6



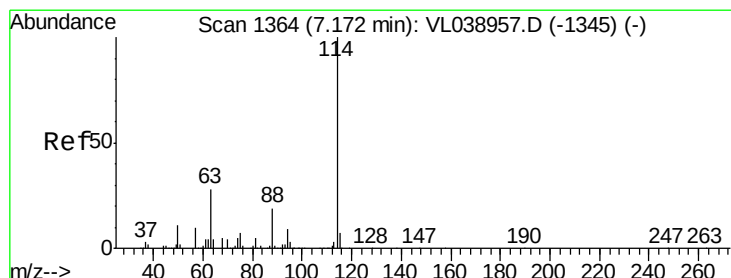
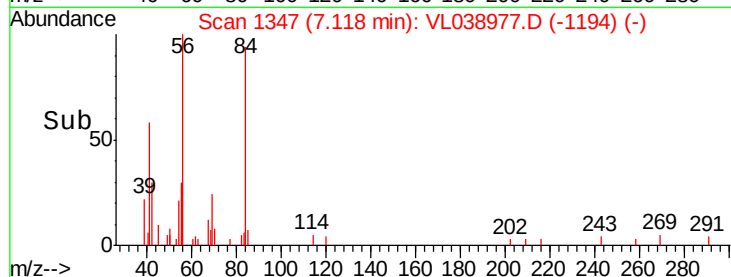
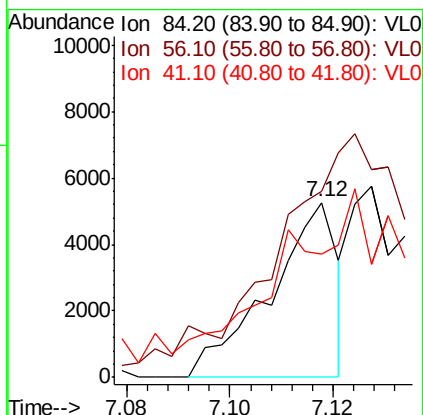
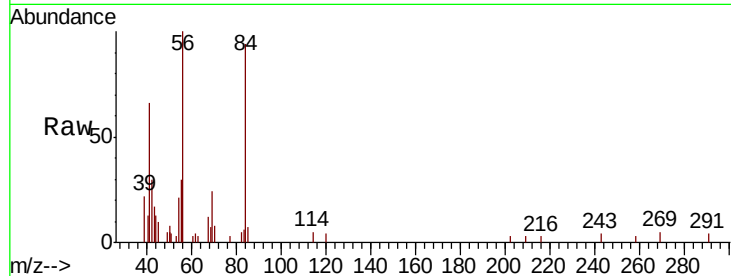
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





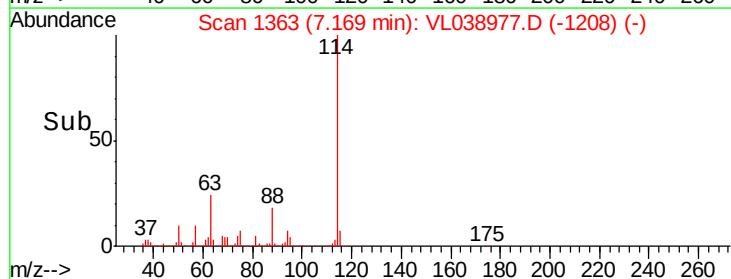
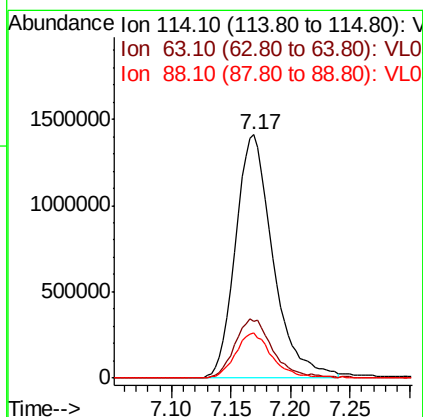
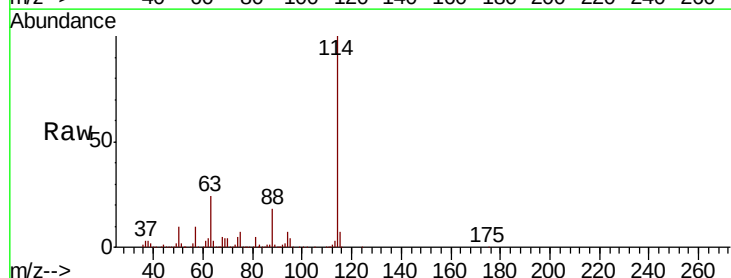
#30
Cvclohexane
Concen: 0.048 ppbv
RT: 7.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 18:01

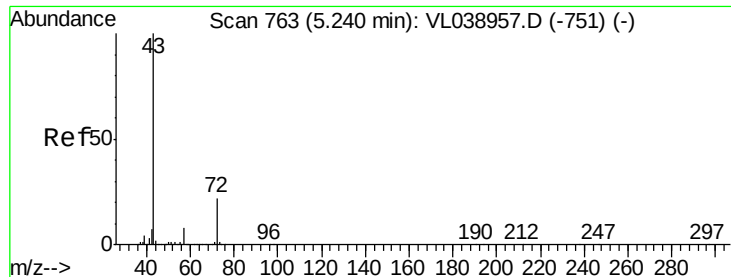
Tot Ion: 84 Resp: 4766
Ion Ratio Lower Upper
84 100
56 0.0 115.3 172.9#
41 0.0 72.0 108.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VL038977.D
Acq: 5 May 2022 18:01

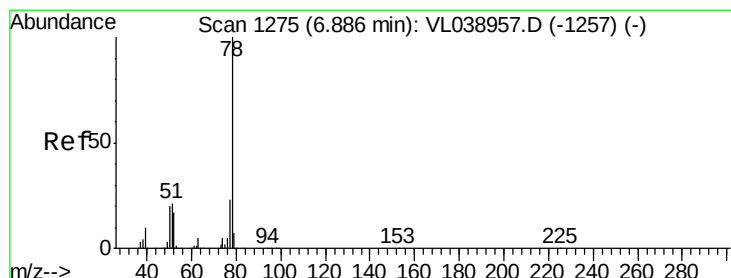
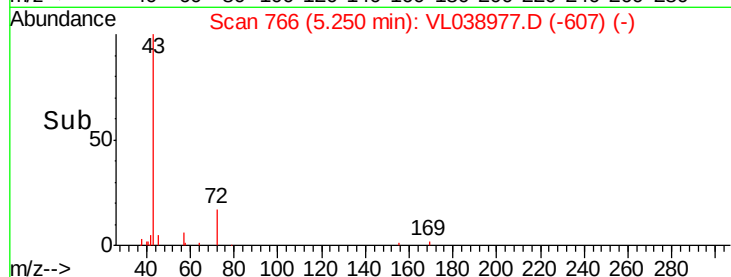
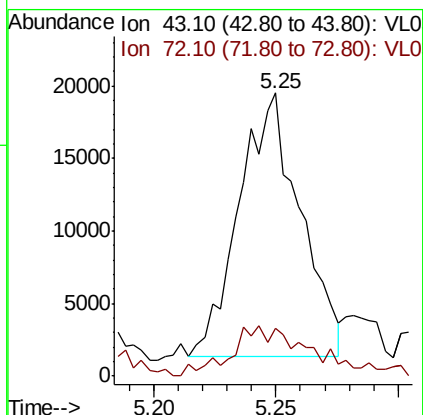
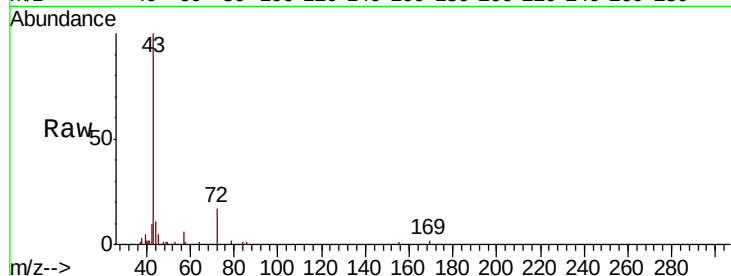
Tgt Ion: 114 Resp: 3078972
Ion Ratio Lower Upper
114 100
63 25.3 22.6 33.8
88 18.2 15.4 23.0





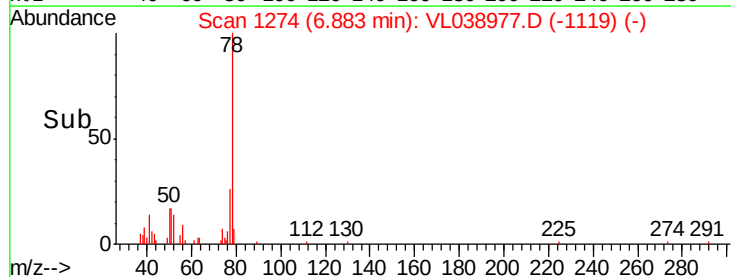
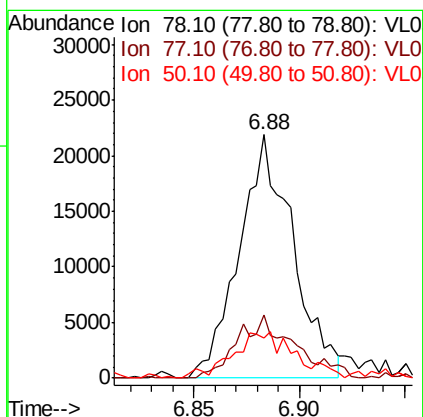
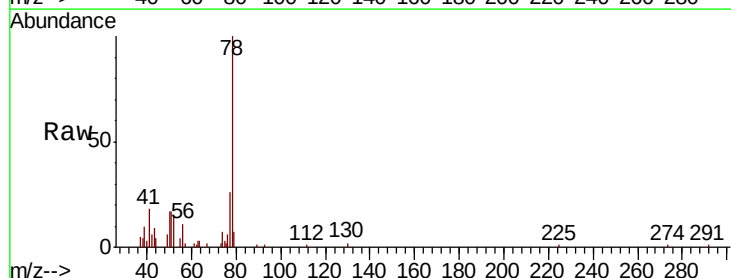
#34
2-Butanone
Concen: 0.201 ppbv
RT: 5.25
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 18:01

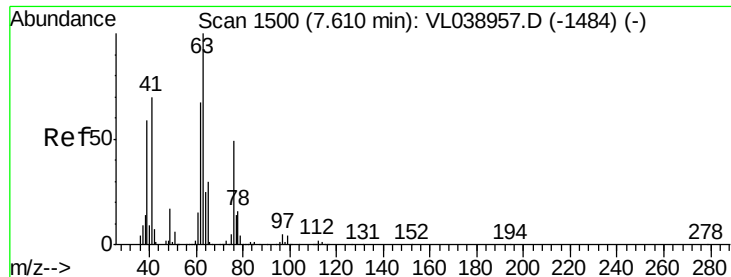
Tot Ion: 43 Resp: 31587
Ion Ratio Lower Upper
43 100
72 27.0 17.8 26.6#



#36
Benzene
Concen: 0.147 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.00 min
Lab File: VL038977.D
Acq: 5 May 2022 18:01

Tgt Ion: 78 Resp: 38764
Ion Ratio Lower Upper
78 100
77 25.8 18.6 28.0
50 14.7 15.6 23.4#





#39

1,2-Dichloropropane

Concen: 0.122 ppbv

RT: 7.22 Instrument:

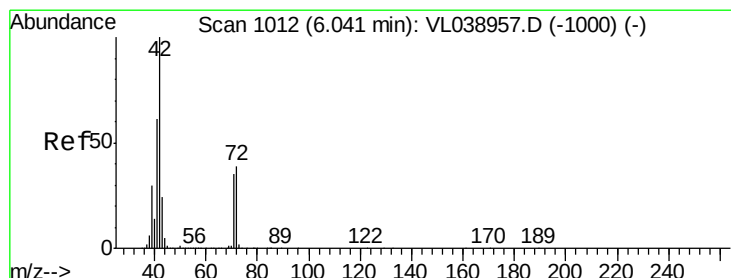
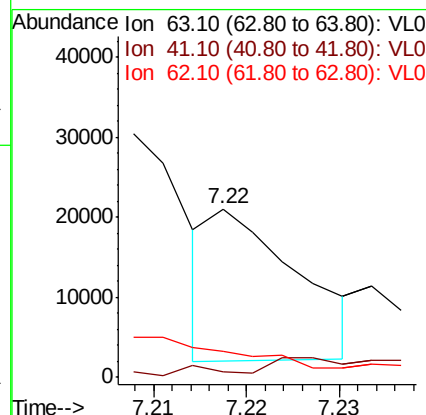
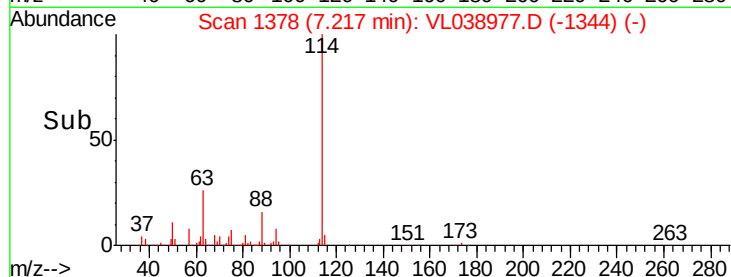
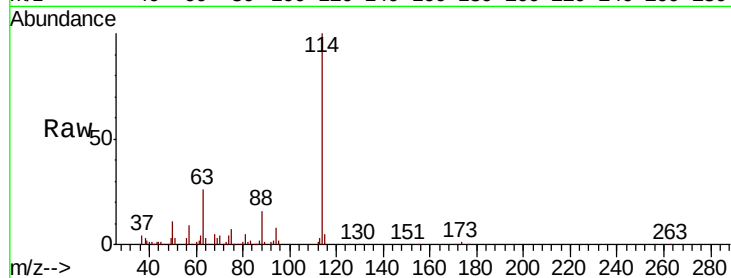
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 18:01

Tot Ion: 63 Resp: 12479

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	18.9	53.8	80.6#



#41

Tetrahydrofuran

Concen: 4.034 ppbv

RT: 5.68 min Scan# 901

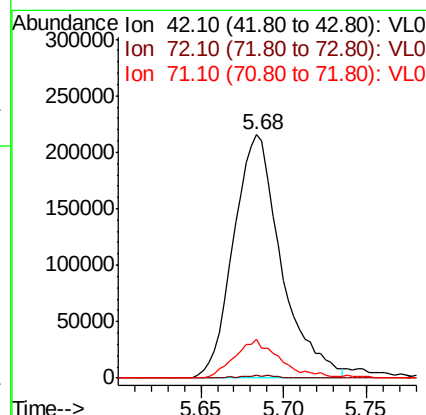
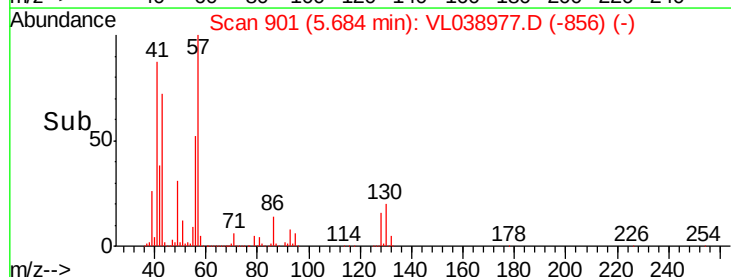
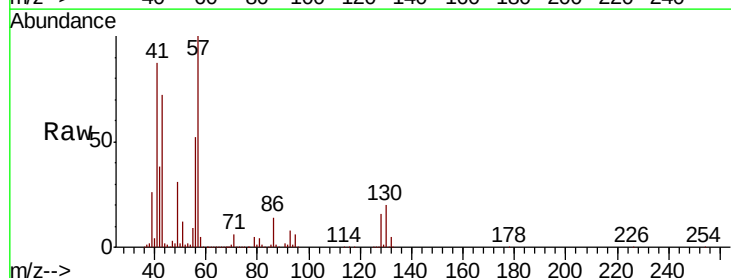
Delta R.T. -0.36 min

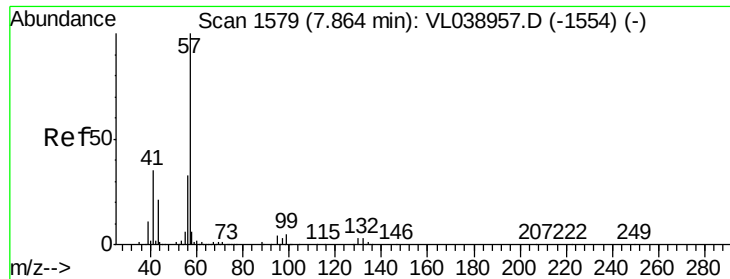
Lab File: VL038977.D

Acq: 5 May 2022 18:01

Tgt Ion: 42 Resp: 425887

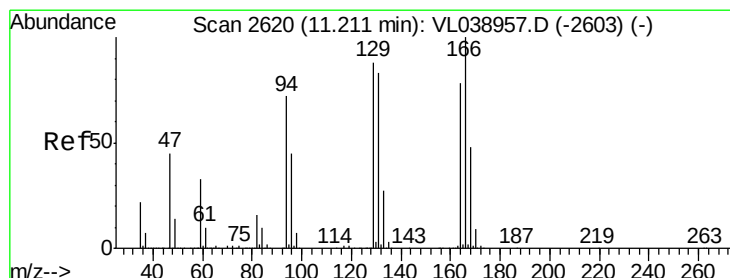
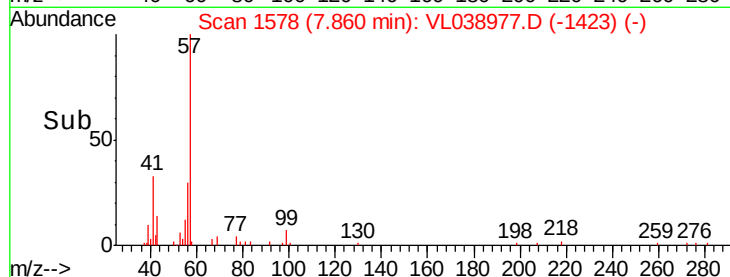
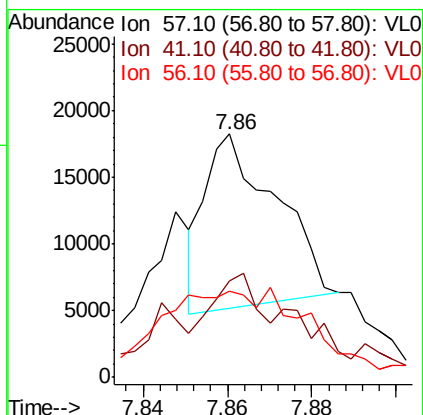
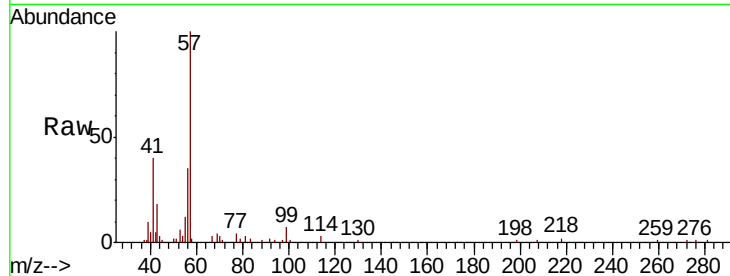
Ion	Ratio	Lower	Upper
42	100		
72	1.0	31.8	47.6#
71	15.7	30.6	45.8#





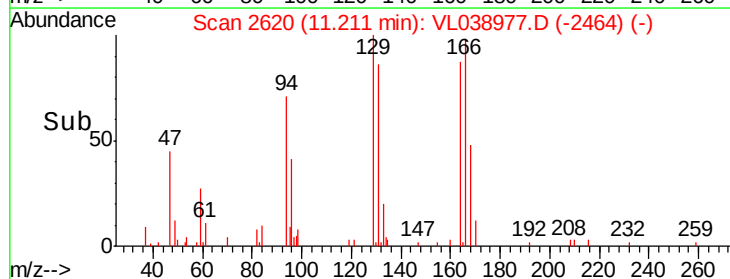
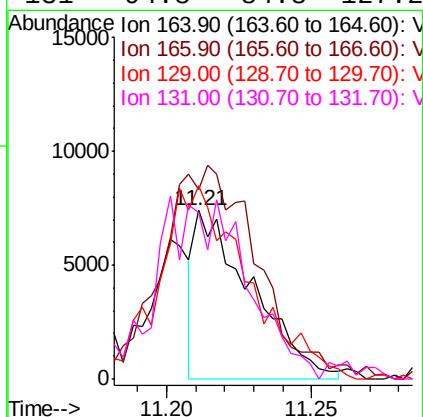
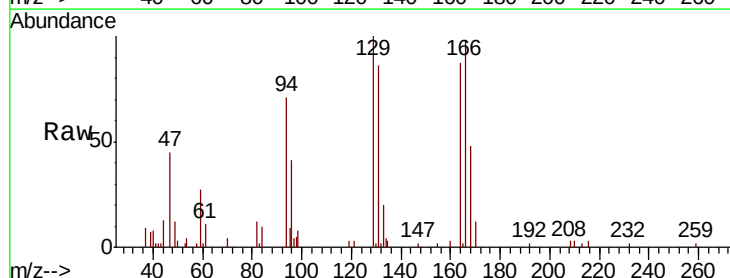
#44
 2,2,4-Trimethylpentane
 Concen: 0.033 ppbv
 RT: 7.86 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 18:01

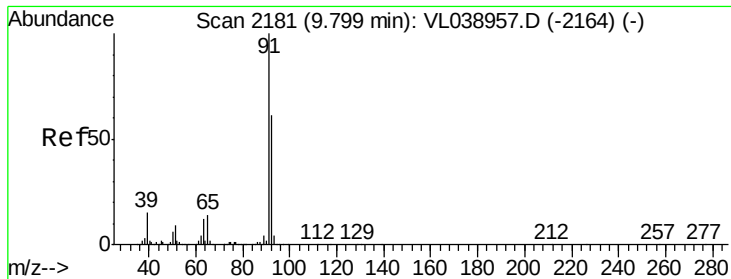
Tot Ion	57	Resp	15130
Ion	Ratio	Lower	Upper
57	100		
41	130.4	26.3	39.5#
56	115.3	24.6	37.0#



#52
 Tetrachloroethene
 Concen: 0.107 ppbv
 RT: 11.21 min Scan# 2620
 Delta R.T. 0.00 min
 Lab File: VL038977.D
 Acq: 5 May 2022 18:01

Tgt Ion	164	Resp	10061
Ion	Ratio	Lower	Upper
164	100		
166	108.8	102.5	153.7
129	113.9	90.1	135.1
131	94.8	84.8	127.2





#53

Toluene

Concen: 0.335 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

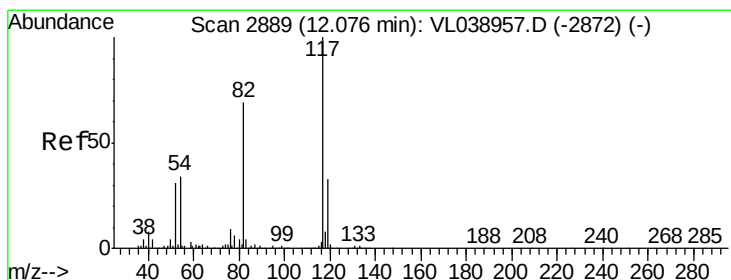
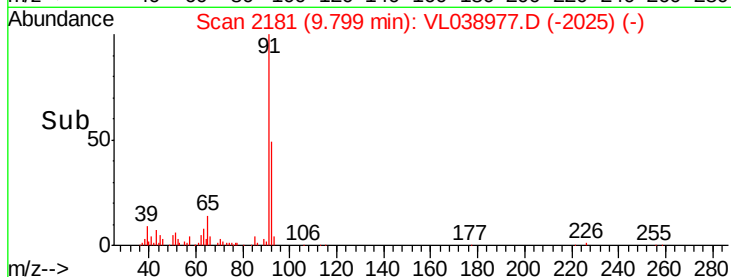
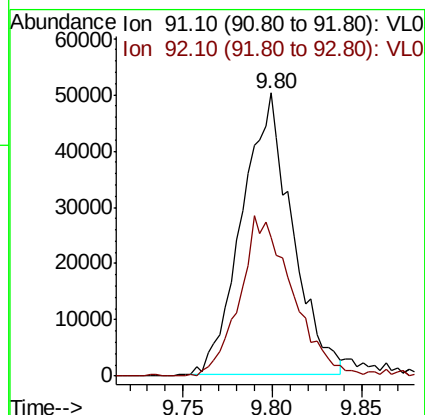
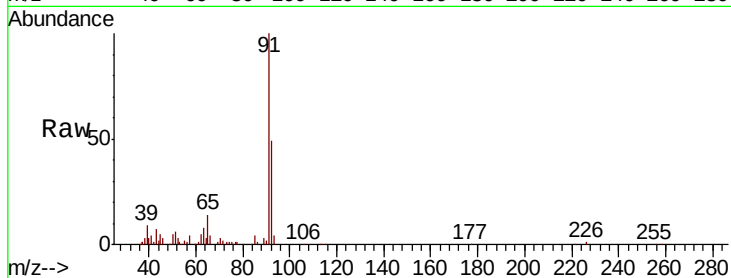
Acq: 5 May 2022 18:01

Tot Ion: 91 Resp: 98851

Ion Ratio Lower Upper

91 100

92 59.4 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL038977.D

Acq: 5 May 2022 18:01

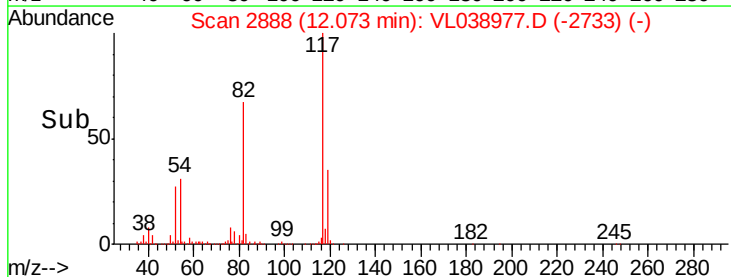
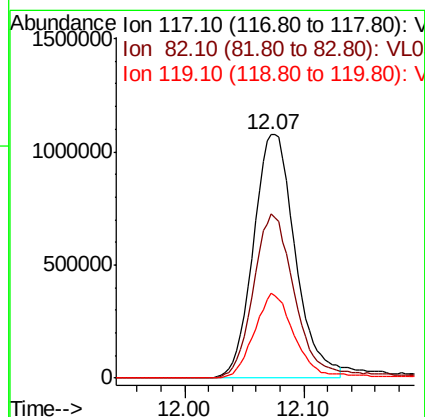
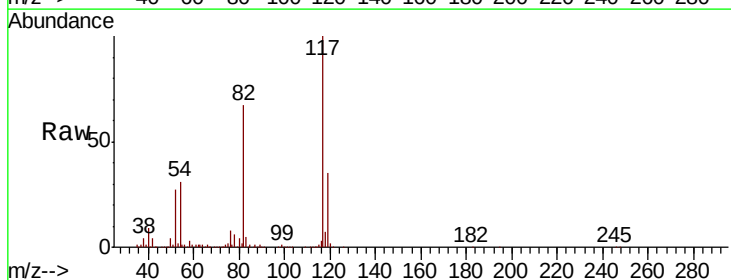
Tgt Ion: 117 Resp: 2620968

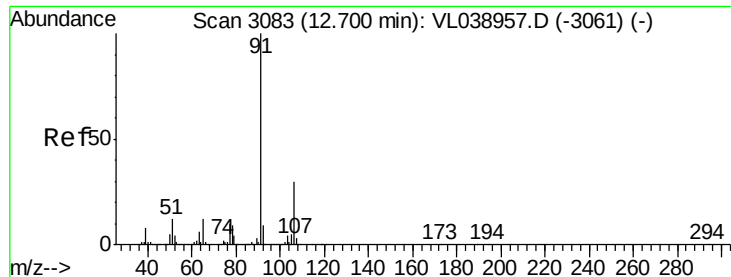
Ion Ratio Lower Upper

117 100

82 70.5 57.0 85.6

119 34.6 27.2 40.8





#58

Ethyl Benzene

Concen: 5.162 ppbv

RT: 12.70 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

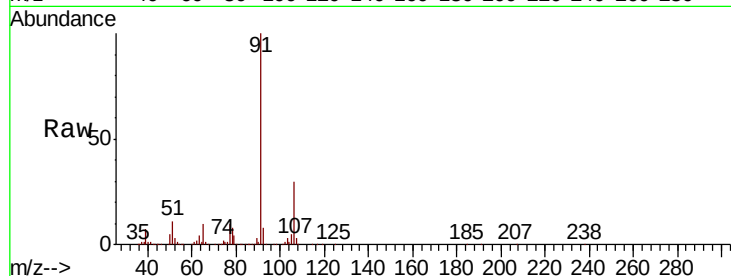
Acq: 5 May 2022 18:01

Tot Ion: 91 Resp: 1947219

Ion Ratio Lower Upper

91 100

106 29.9 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.70

800000

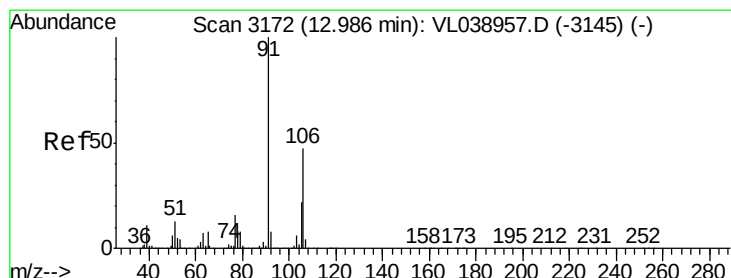
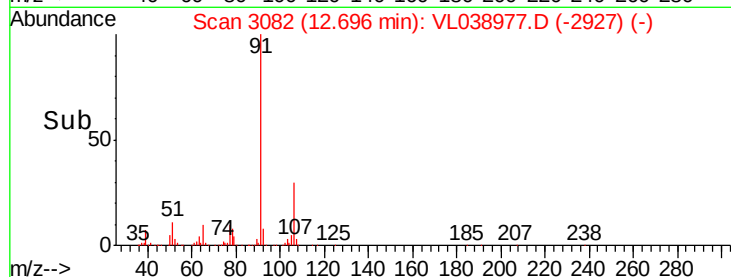
600000

400000

200000

0

Time--> 12.60 12.70



#59

m/p-Xylene

Concen: 19.949 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.03 min

Lab File: VL038977.D

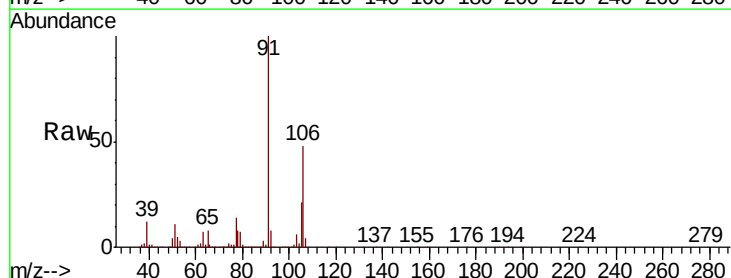
Acq: 5 May 2022 18:01

Tgt Ion: 91 Resp: 6423695

Ion Ratio Lower Upper

91 100

106 48.2 34.6 52.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.95

2000000

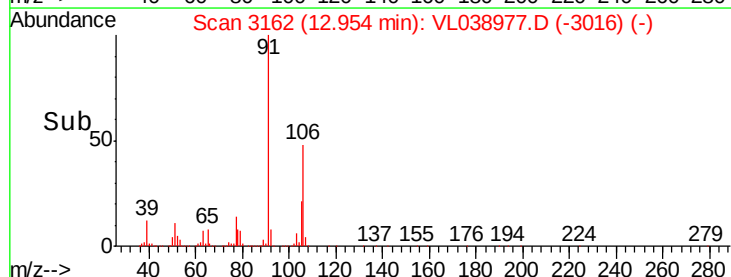
1500000

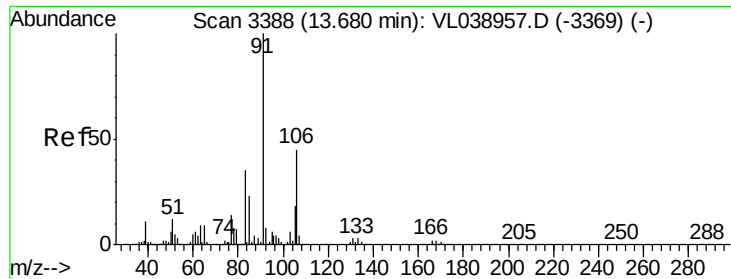
1000000

500000

0

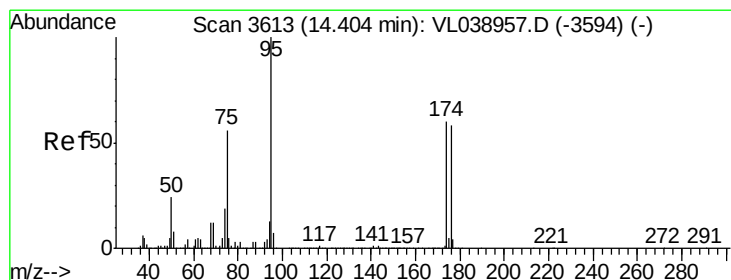
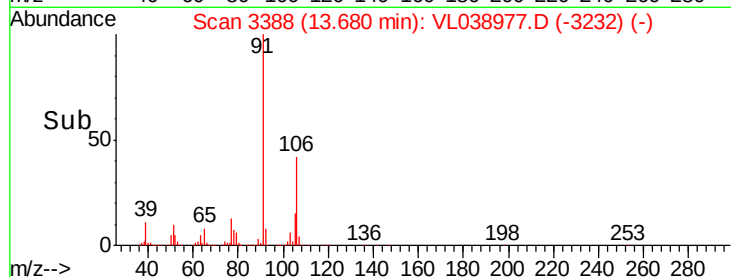
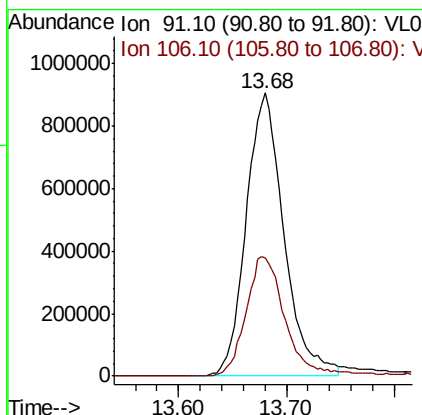
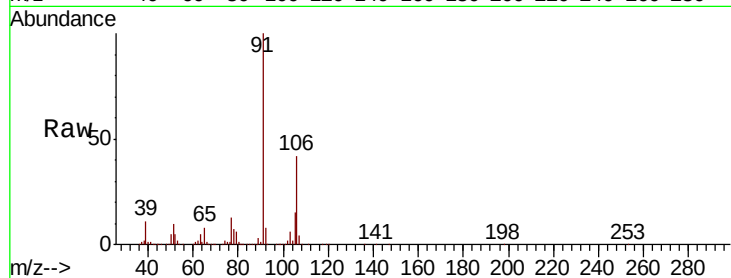
Time--> 12.90 13.00 13.10





#60
o-Xylene
Concen: 7.239 ppbv
RT: 13.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 18:01

Tot Ion: 91 Resp: 2193885
Ion Ratio Lower Upper
91 100
106 45.1 22.2 66.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.717 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.00 min
Lab File: VL038977.D
Acq: 5 May 2022 18:01

Tgt Ion: 95 Resp: 2016977
Ion Ratio Lower Upper
95 100
174 67.6 50.8 76.2
175 4.9 3.8 5.6

