

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
 Data File : VL038991.D
 Acq On : 9 May 2022 17:43
 Operator : SY/AP
 Sample : N2724-03
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: May 10 05:43:58 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 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

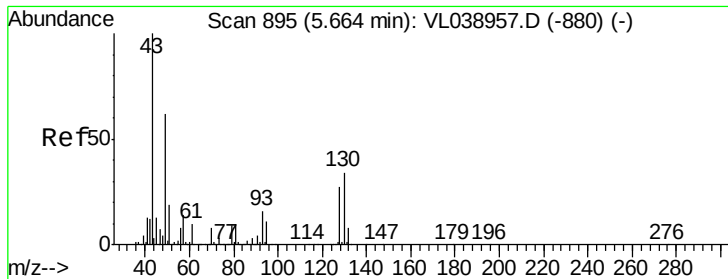
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1103739	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.15	114	2406103	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2110162	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1782040	10.66	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	115184	0.666 ppbv	99
3) Chlorodifluoromethane	2.98	51	111164	0.812 ppbv #	90
4) Chloromethane	3.13	50	32034	0.467 ppbv	90
9) Propene	3.02	41	39806	0.666 ppbv	92
11) Trichlorofluoromethane	3.94	101	38452	0.259 ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.47	101	8156	0.080 ppbv	96
13) Ethanol	3.60	45	139267	32.903 ppbv	99
15) Acetone	3.84	43	352217	3.383 ppbv	97
16) 1,3-Butadiene	3.31	39	2106	0.035 ppbv #	1
19) Isopropyl Alcohol	3.96	45	77047	1.556 ppbv #	85
20) Methylene Chloride	4.33	84	128322	3.270 ppbv	98
23) Vinyl Acetate	5.05	43	24035	0.292 ppbv #	95
25) Ethyl Acetate	5.67	43	62955	0.253 ppbv #	84
26) Hexane	5.67	57	171322	1.547 ppbv #	43
34) 2-Butanone	5.24	43	31329	0.255 ppbv #	82
36) Benzene	6.87	78	20748	0.101 ppbv	99
39) 1,2-Dichloropropane	7.21	63	7027	0.088 ppbv #	27
43) Methyl Methacrylate	8.00	69	9569	0.114 ppbv #	33
44) 2,2,4-Trimethylpentane	7.85	57	26841	0.074 ppbv #	68
53) Toluene	9.78	91	25956	0.112 ppbv #	21
59) m/p-Xylene	12.97	91	11041	0.043 ppbv #	33
60) o-Xylene	13.66	91	9433	0.039 ppbv #	32

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 9 May 2022 17:43

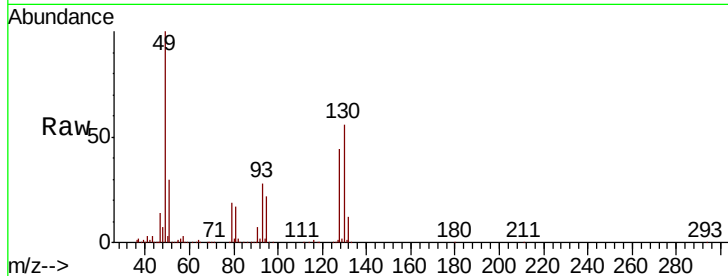
Tot Ion: 49 Resp: 1103739

Ion Ratio Lower Upper

49 100

128 44.7 23.3 69.8

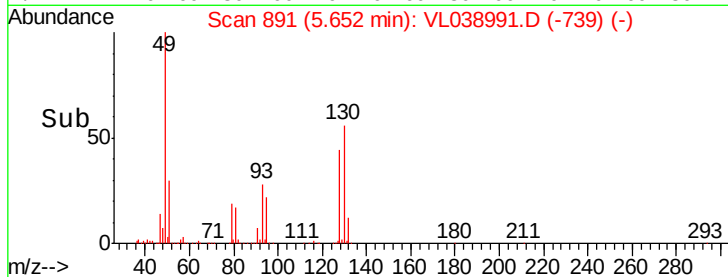
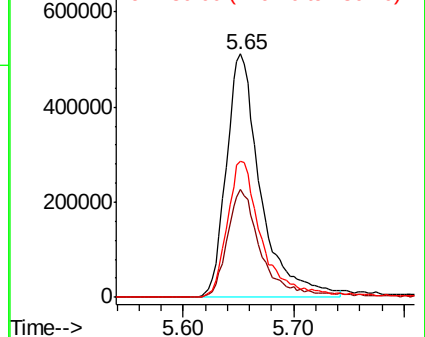
130 58.0 29.8 89.3



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: 0.666 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038991.D

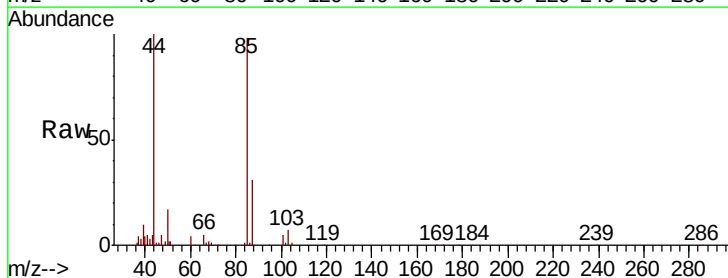
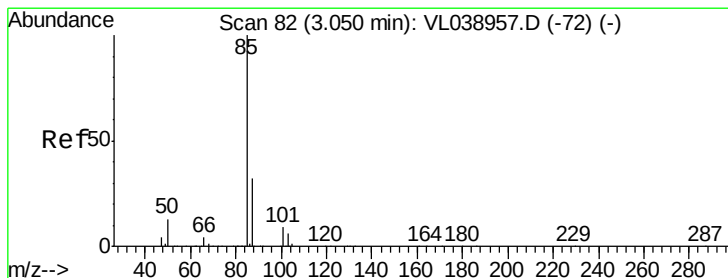
Acq: 9 May 2022 17:43

Tgt Ion: 85 Resp: 115184

Ion Ratio Lower Upper

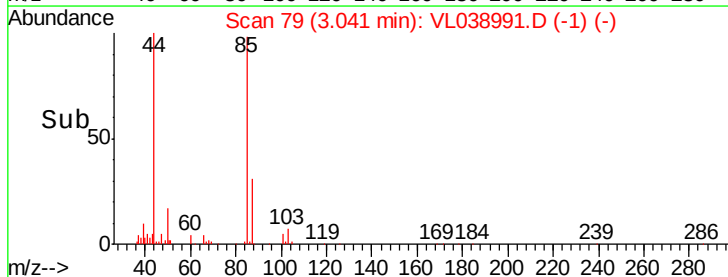
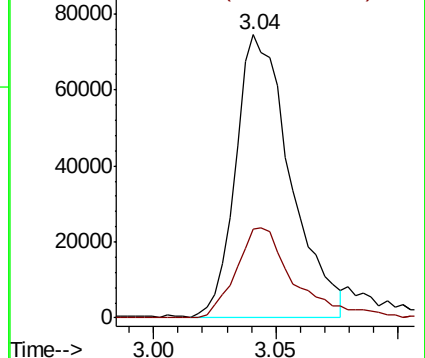
85 100

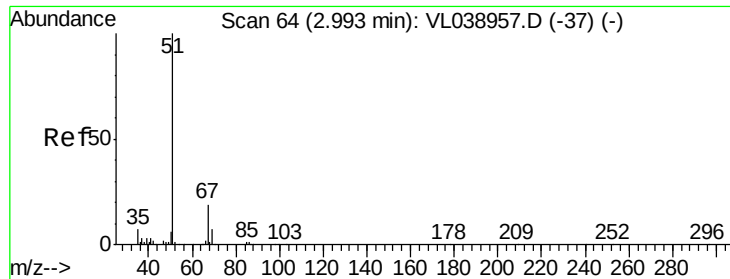
87 31.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

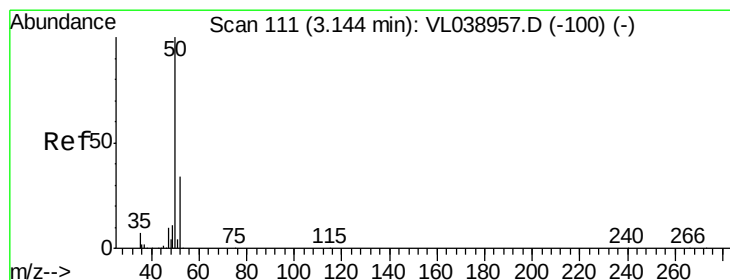
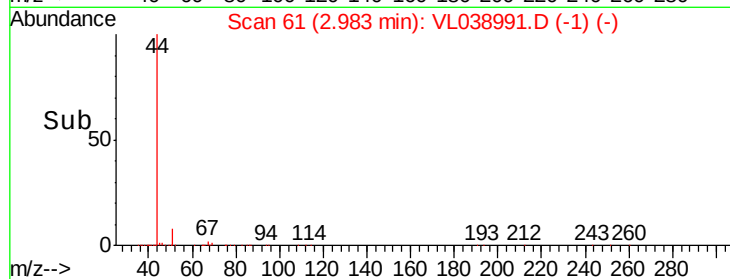
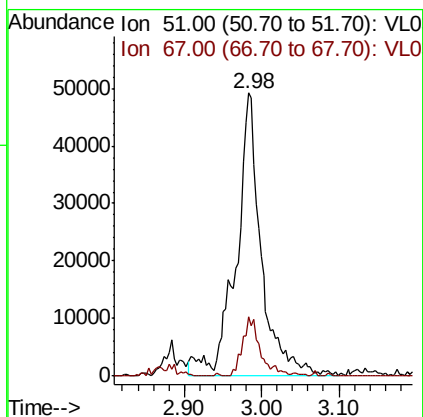
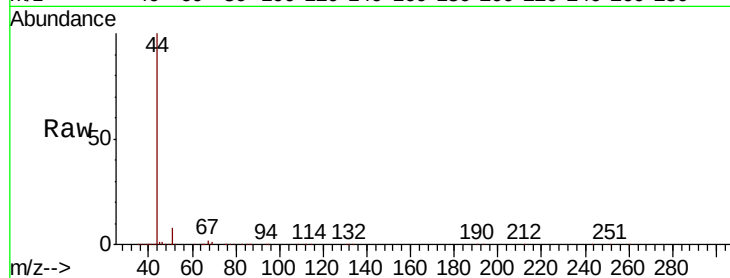
Ion 87.00 (86.70 to 87.70): VL0





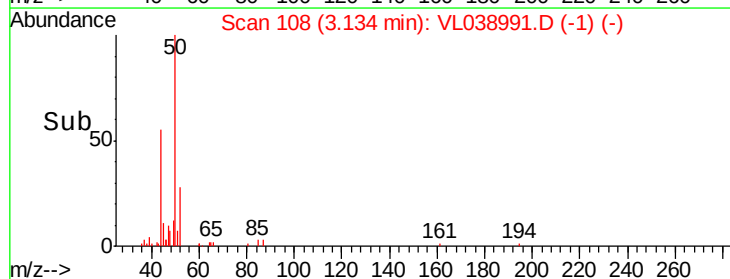
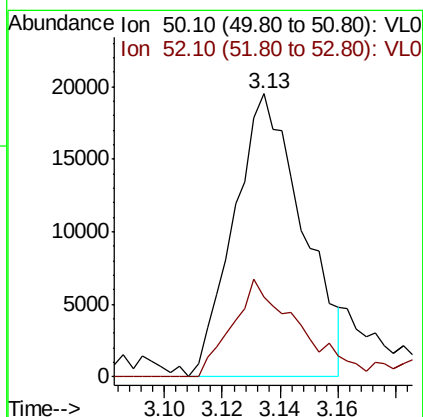
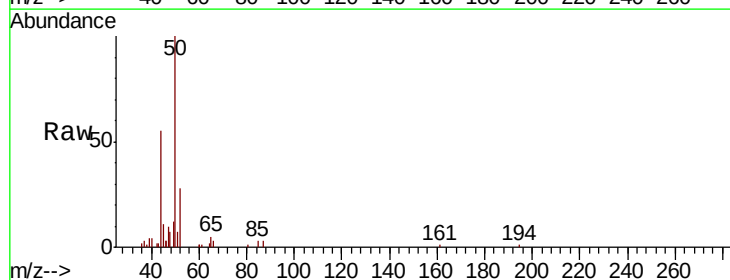
#3
 Chlorodifluoromethane
 Concen: 0.812 ppbv
 RT: 2.98
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 9 May 2022 17:43

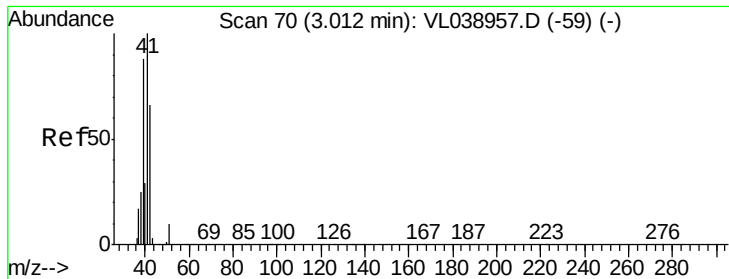
Tot Ion: 51 Resp: 111164
 Ion Ratio Lower Upper
 51 100
 67 15.2 15.8 23.8#



#4
 Chloromethane
 Concen: 0.467 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.01 min
 Lab File: VL038991.D
 Acq: 9 May 2022 17:43

Tgt Ion: 50 Resp: 32034
 Ion Ratio Lower Upper
 50 100
 52 28.2 27.3 40.9





#9

Propene

Concen: 0.666 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

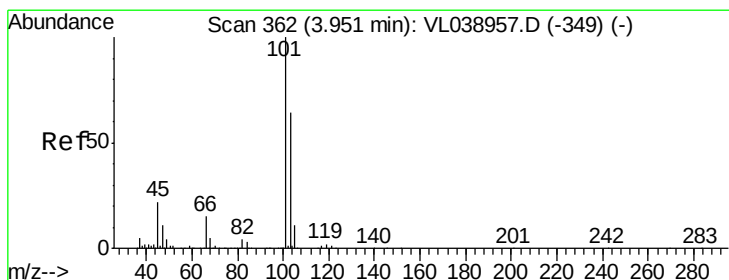
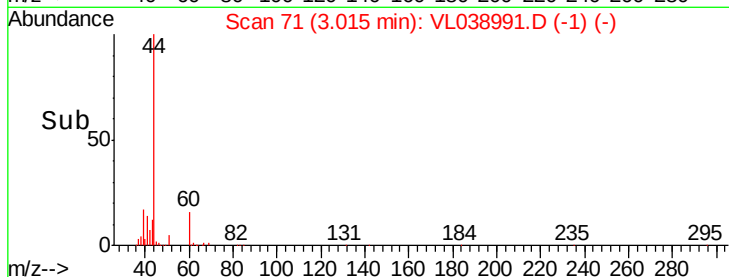
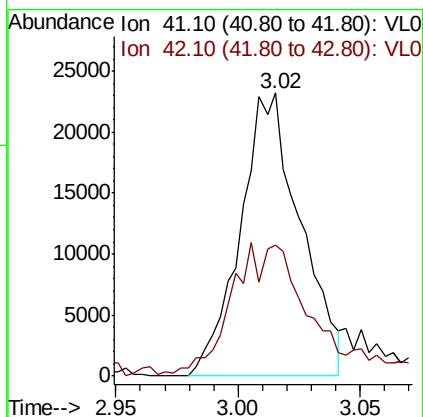
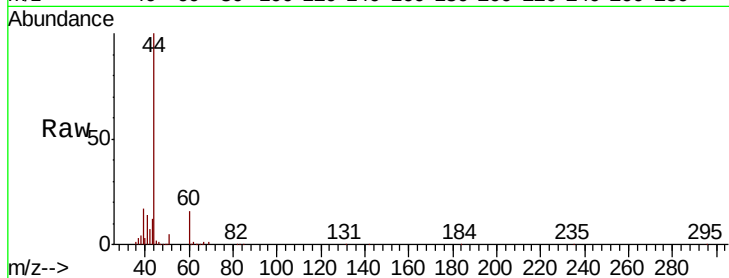
Acq: 9 May 2022 17:43

Tot Ion: 41 Resp: 39806

Ion Ratio Lower Upper

41 100

42 66.5 58.3 87.5



#11

Trichlorofluoromethane

Concen: 0.259 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL038991.D

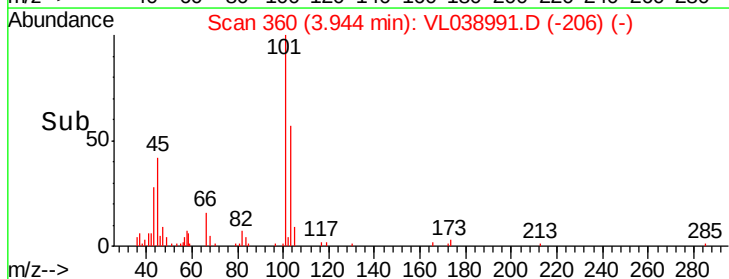
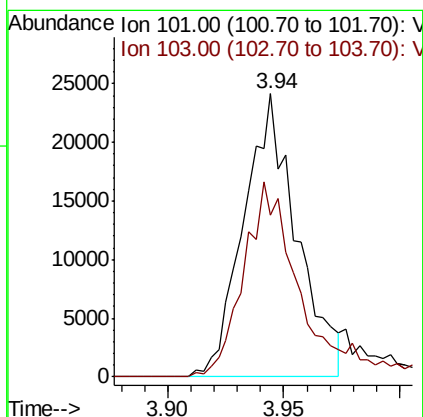
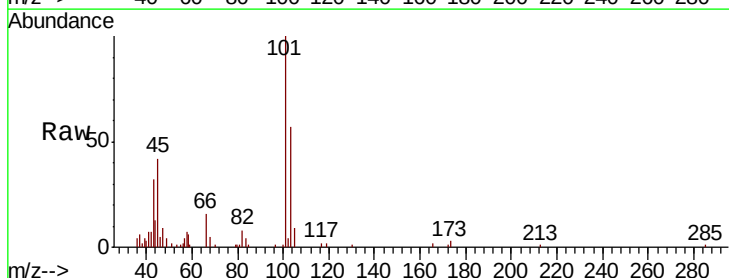
Acq: 9 May 2022 17:43

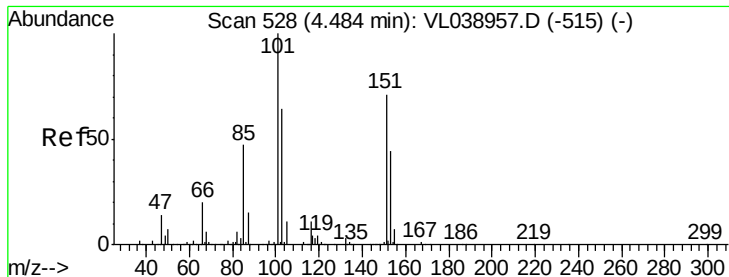
Tgt Ion: 101 Resp: 38452

Ion Ratio Lower Upper

101 100

103 57.1 51.5 77.3





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.080 ppbv

RT: 4.47 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

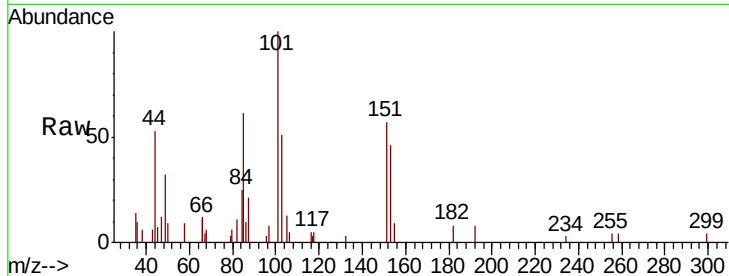
Acq: 9 May 2022 17:43

Tot Ion:101 Resp: 8156

Ion Ratio Lower Upper

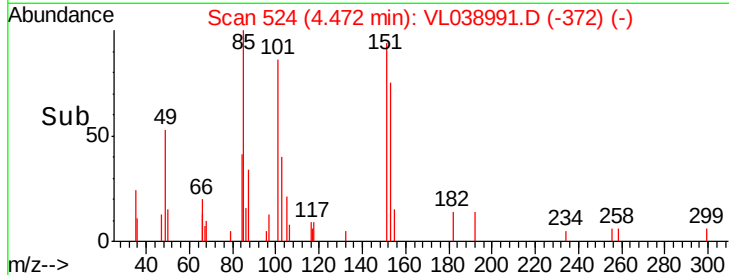
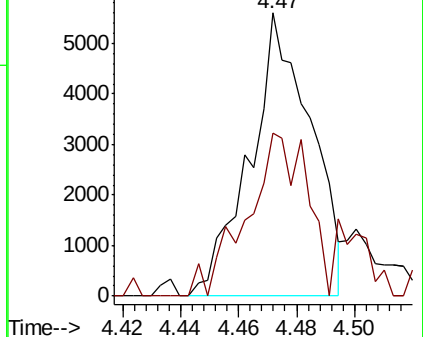
101 100

151 72.4 55.4 83.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 32.903 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL038991.D

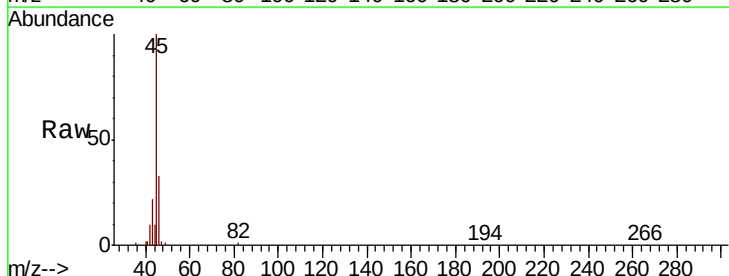
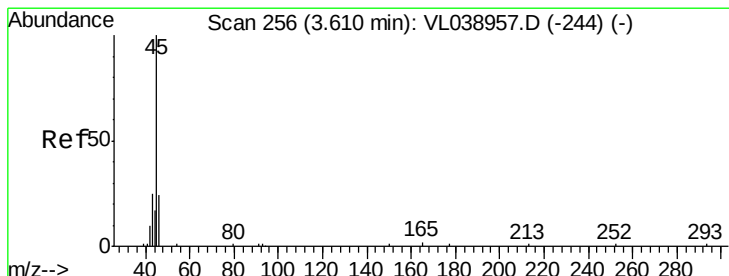
Acq: 9 May 2022 17:43

Tgt Ion: 45 Resp: 139267

Ion Ratio Lower Upper

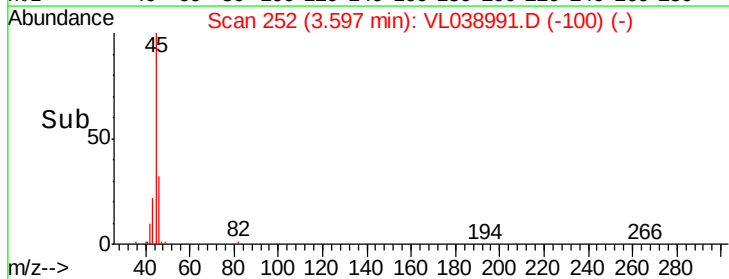
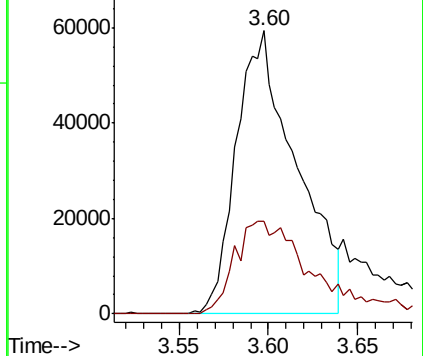
45 100

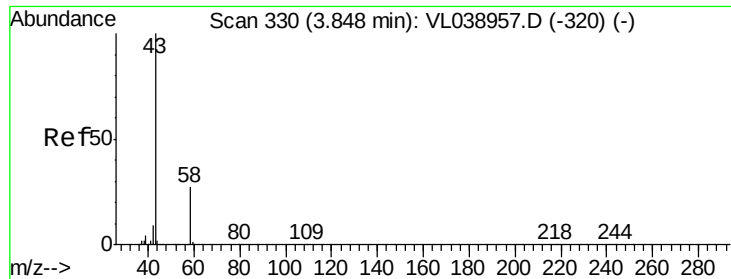
46 44.3 18.0 72.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.383 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

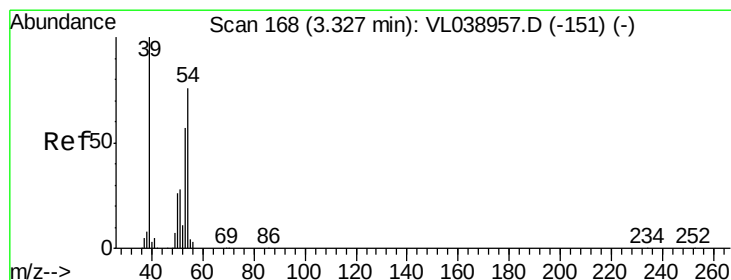
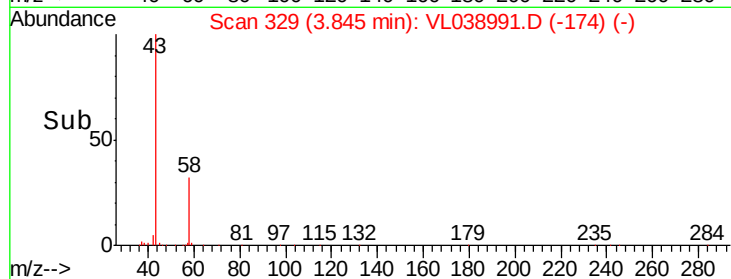
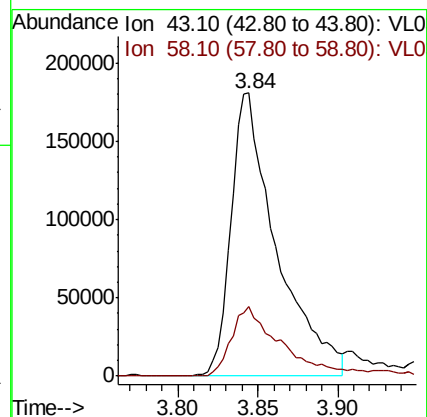
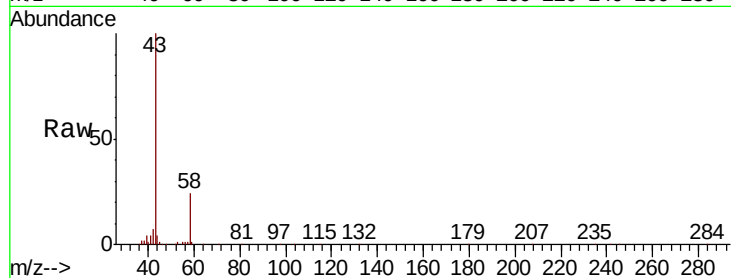
Acq: 9 May 2022 17:43

Tot Ion: 43 Resp: 352217

Ion Ratio Lower Upper

43 100

58 28.2 21.3 31.9



#16

1,3-Butadiene

Concen: 0.035 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL038991.D

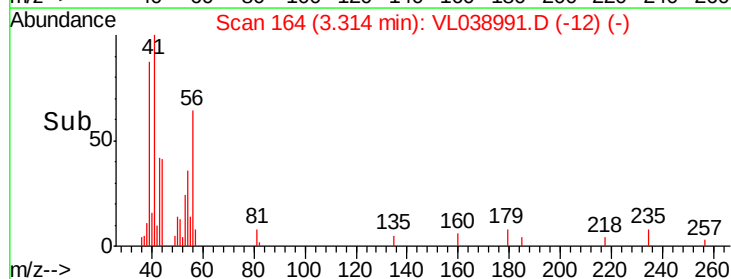
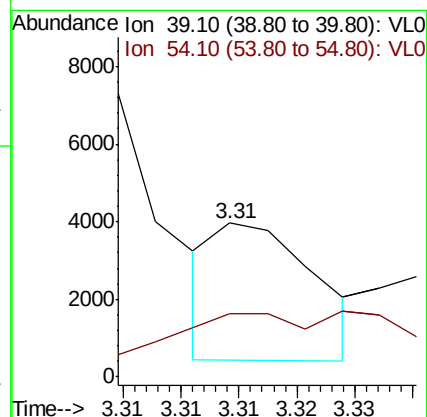
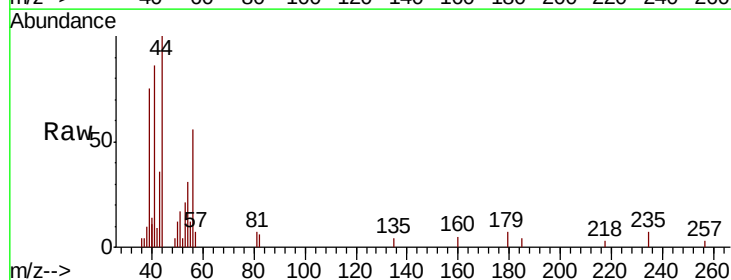
Acq: 9 May 2022 17:43

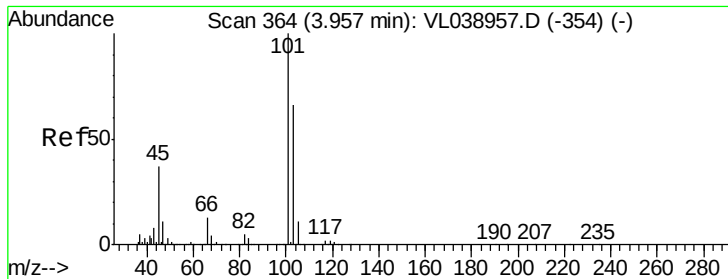
Tgt Ion: 39 Resp: 2106

Ion Ratio Lower Upper

39 100

54 200.4 65.2 97.8#





#19

Isopropyl Alcohol

Concen: 1.556 ppbv

RT: 3.96 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

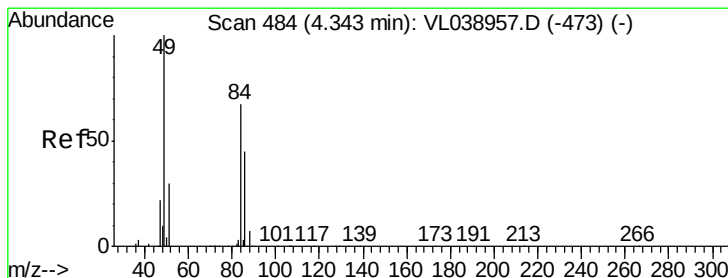
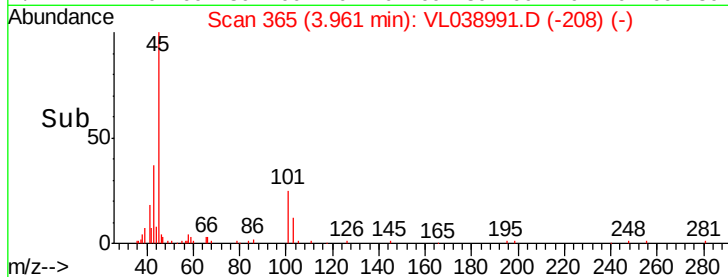
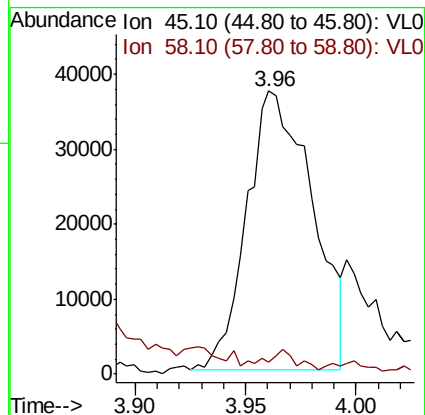
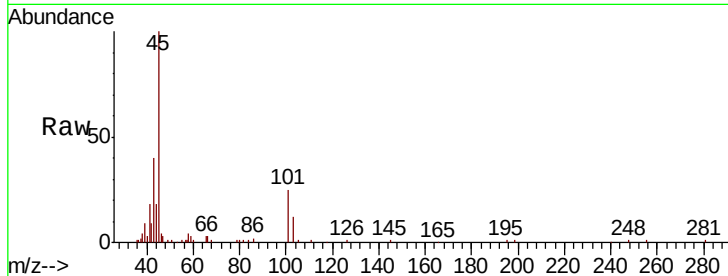
Acq: 9 May 2022 17:43

Tot Ion: 45 Resp: 77047

Ion Ratio Lower Upper

45 100

58 7.4 1.4 2.2#



#20

Methylene Chloride

Concen: 3.270 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL038991.D

Acq: 9 May 2022 17:43

Tgt Ion: 84 Resp: 128322

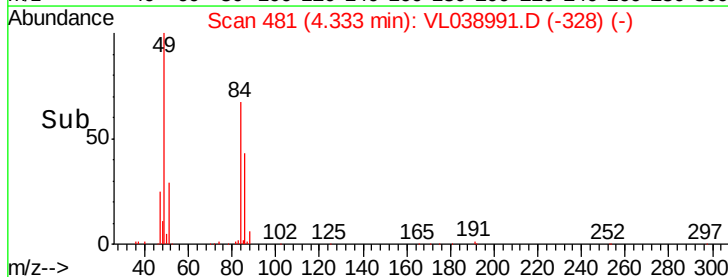
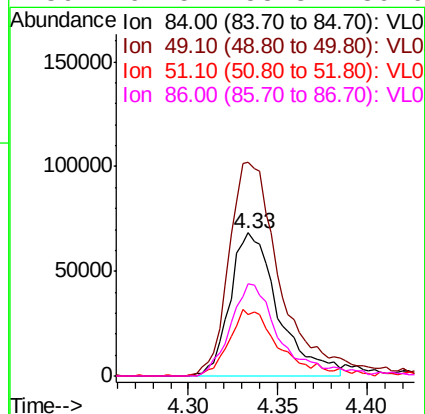
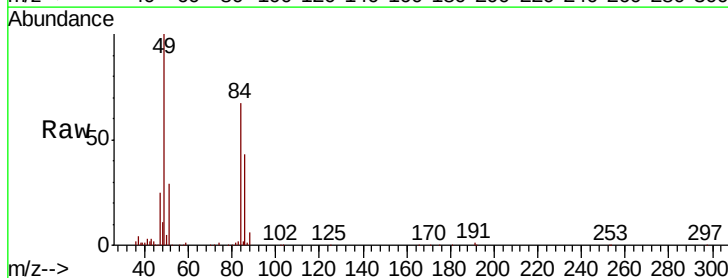
Ion Ratio Lower Upper

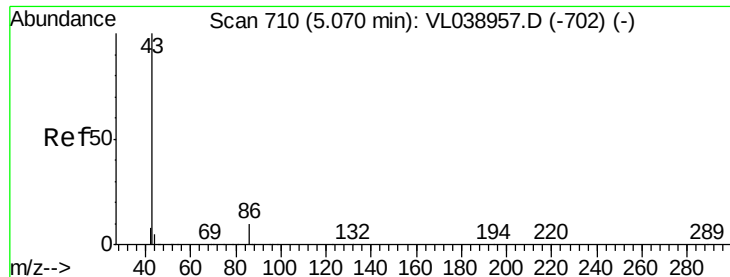
84 100

49 148.7 119.9 179.9

51 41.9 35.7 53.5

86 64.5 53.8 80.6





#23

Vinyl Acetate

Concen: 0.292 ppbv

RT: 5.05 Instrument:

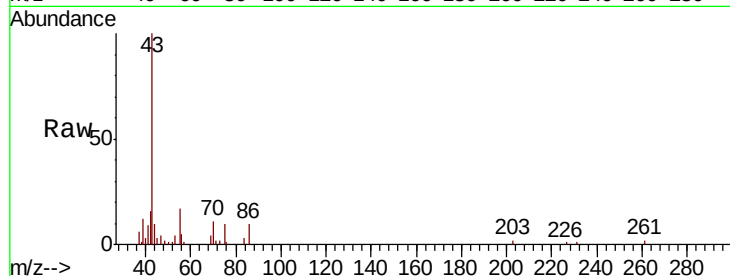
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 9 May 2022 17:43

Tot Ion: 43 Resp: 24035

Ion	Ratio	Lower	Upper
43	100		
86	10.5	6.6	9.8#
42	9.6	8.1	12.1
44	1.6	3.5	5.3#

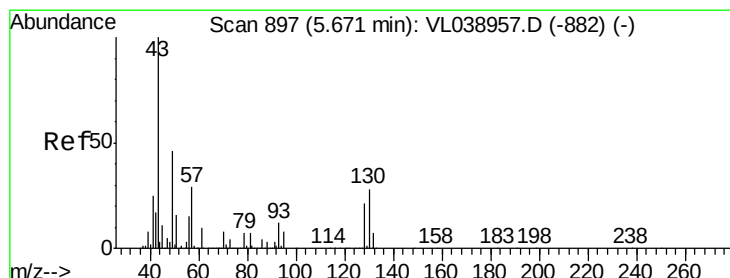
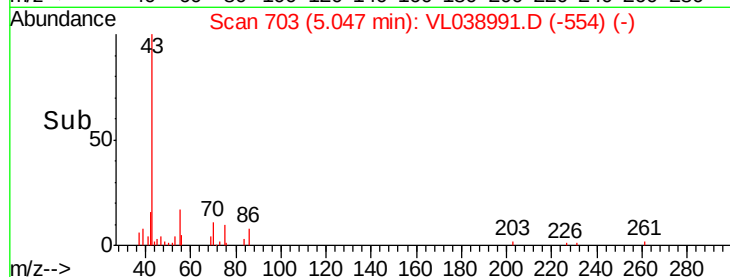
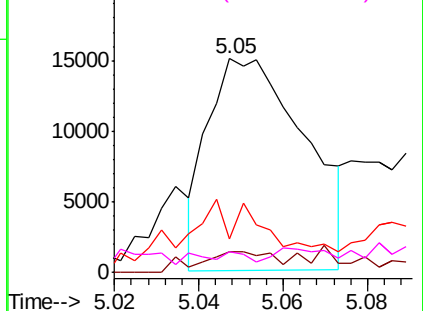


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.253 ppbv

RT: 5.67 min Scan# 896

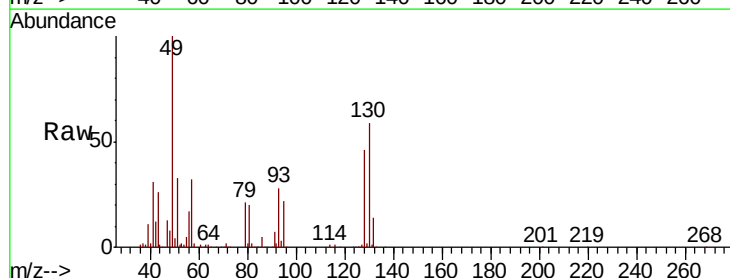
Delta R.T. -0.00 min

Lab File: VL038991.D

Acq: 9 May 2022 17:43

Tgt Ion: 43 Resp: 62955

Ion	Ratio	Lower	Upper
43	100		
45	6.5	8.1	12.1#
61	2.9	7.8	11.6#
70	0.0	5.6	8.4#

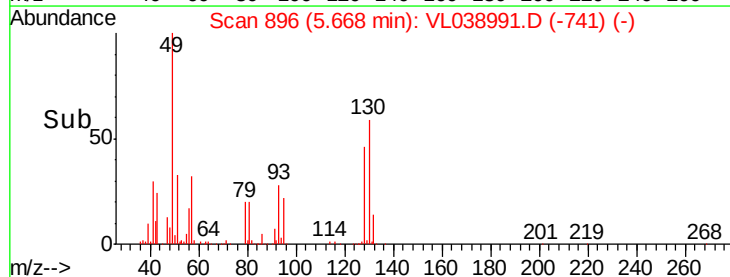
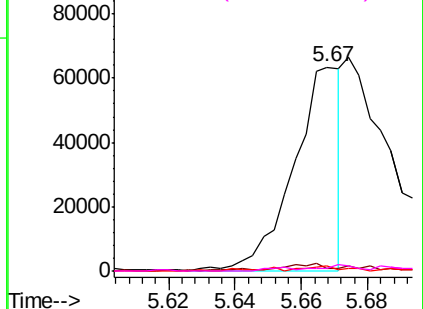


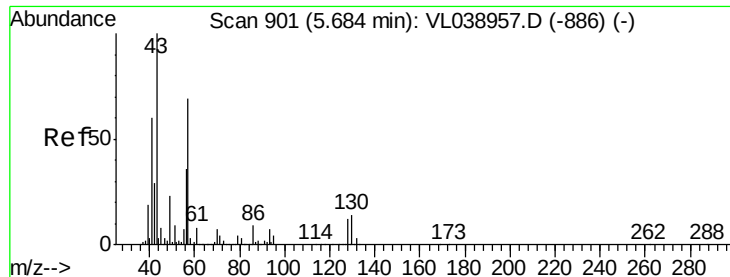
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

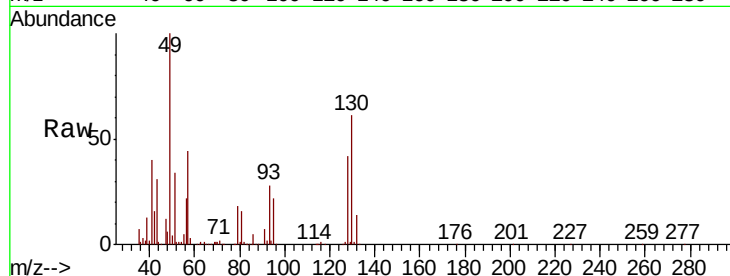
Ion 70.10 (69.80 to 70.80): VL0



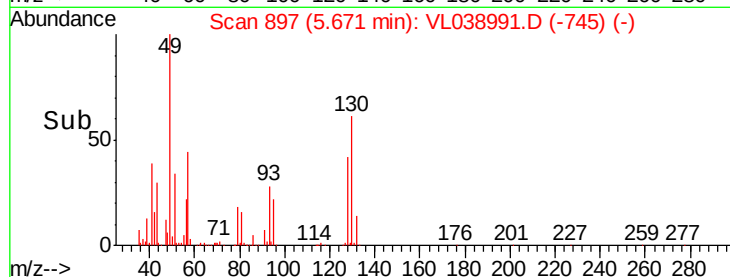
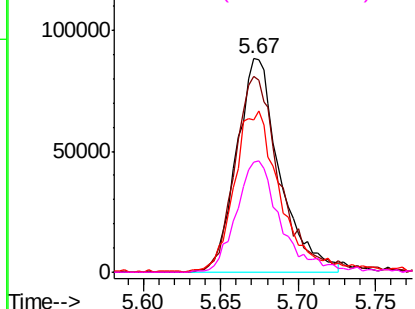


#26
Hexane
Concen: 1.547 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 9 May 2022 17:43

Tot Ion:	57	Resp:	171322
Ion	Ratio	Lower	Upper
57	100		
41	97.0	75.2	112.8
43	84.1	190.8	286.2#
56	54.8	43.0	64.6

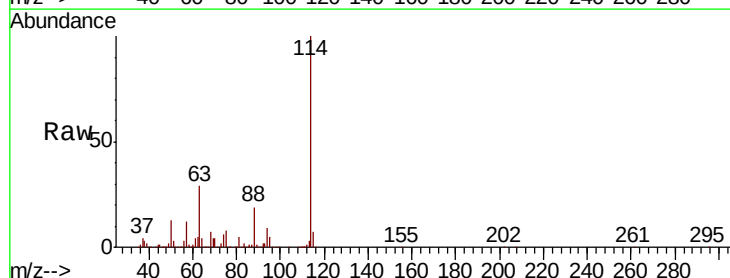
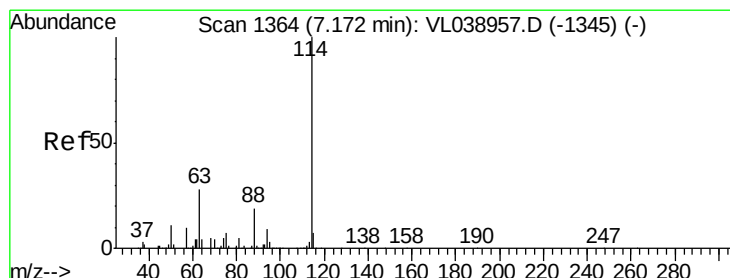


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

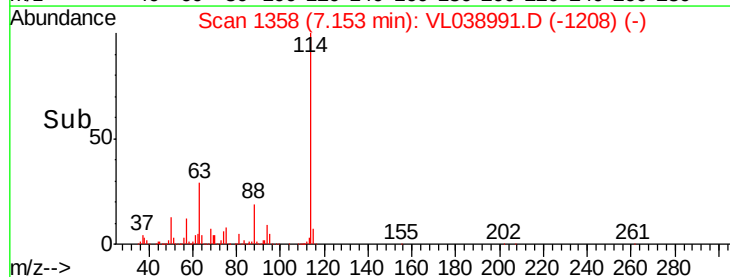
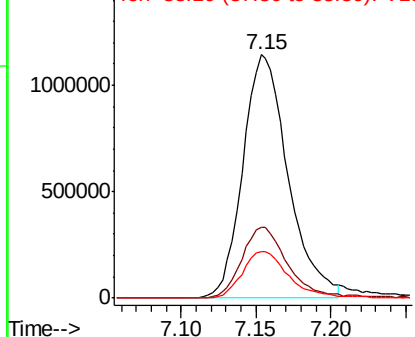


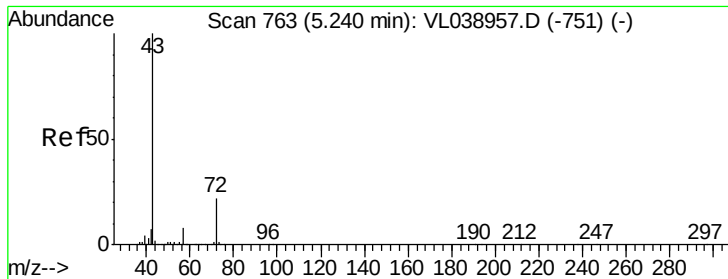
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.02 min
Lab File: VL038991.D
Acq: 9 May 2022 17:43

Tgt Ion:	114	Resp:	2406103
Ion	Ratio	Lower	Upper
114	100		
63	30.5	22.6	33.8
88	20.0	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: 0.255 ppbv

RT: 5.24 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

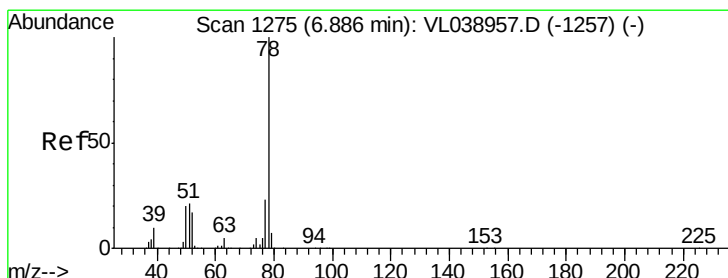
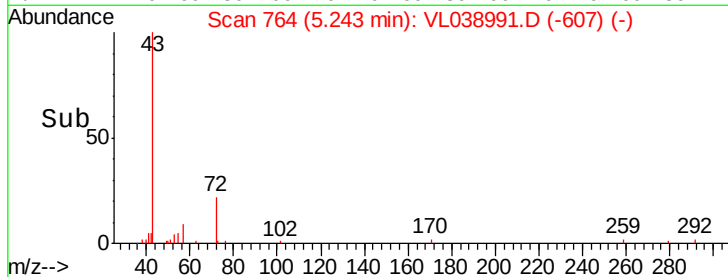
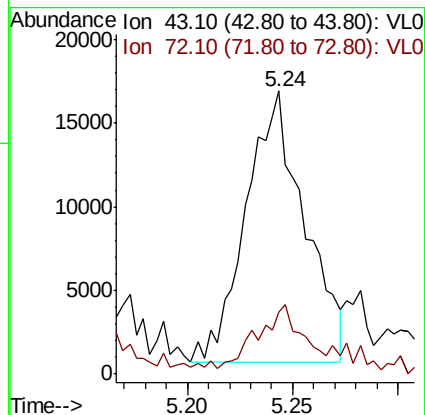
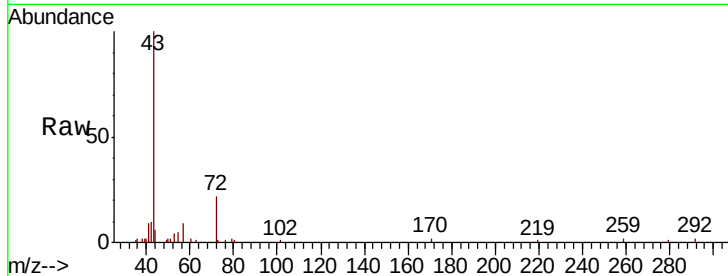
Acq: 9 May 2022 17:43

Tot Ion: 43 Resp: 31329

Ion Ratio Lower Upper

43 100

72 30.6 17.8 26.6#



#36

Benzene

Concen: 0.101 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VL038991.D

Acq: 9 May 2022 17:43

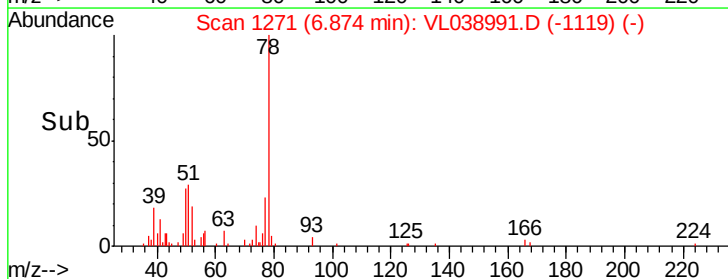
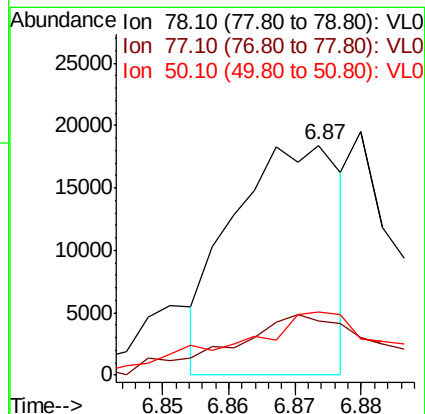
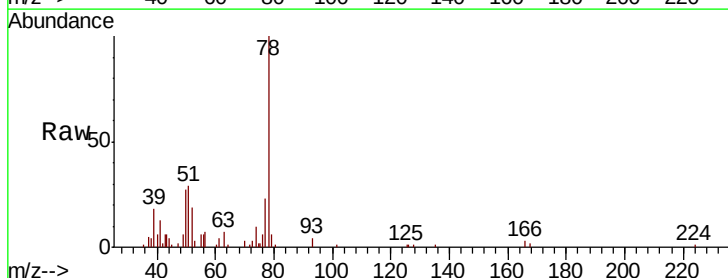
Tgt Ion: 78 Resp: 20748

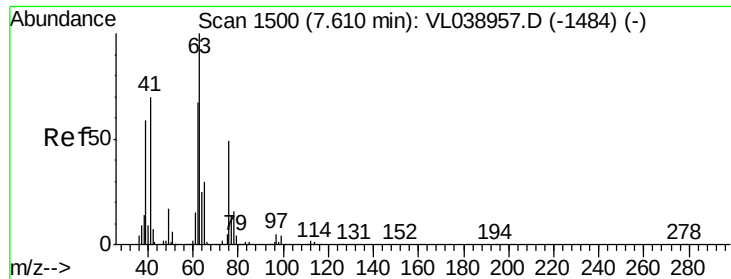
Ion Ratio Lower Upper

78 100

77 22.8 18.6 28.0

50 20.2 15.6 23.4





#39

1,2-Dichloropropane

Concen: 0.088 ppbv

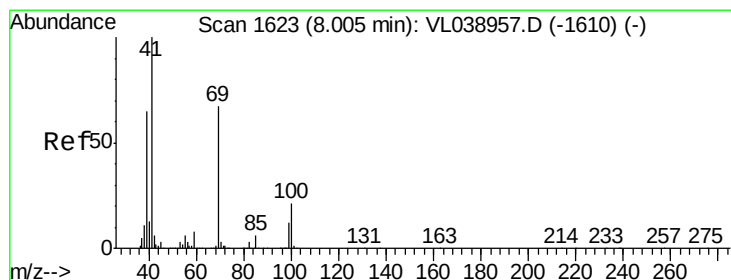
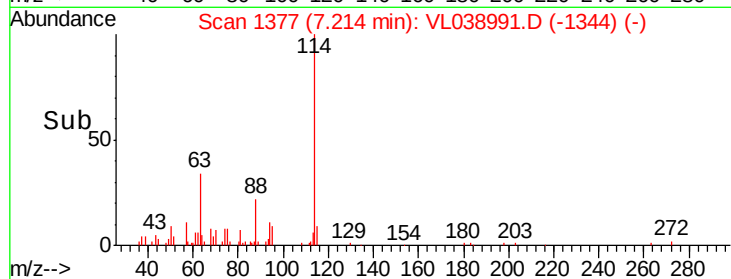
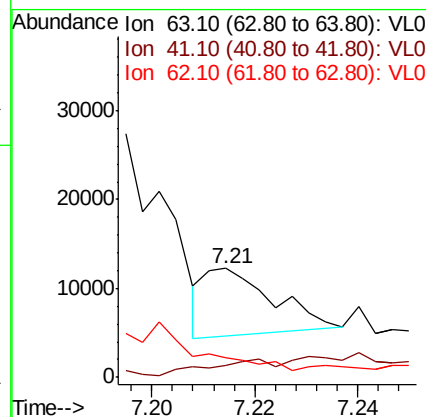
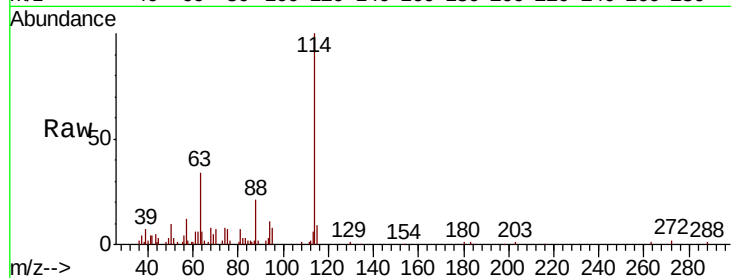
RT: 7.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 May 2022 17:43

Tot Ion:	63	Resp:	7027
Ion	Ratio	Lower	Upper
63	100		
41	3.7	55.9	83.9#
62	14.7	53.8	80.6#



#43

Methyl Methacrylate

Concen: 0.114 ppbv

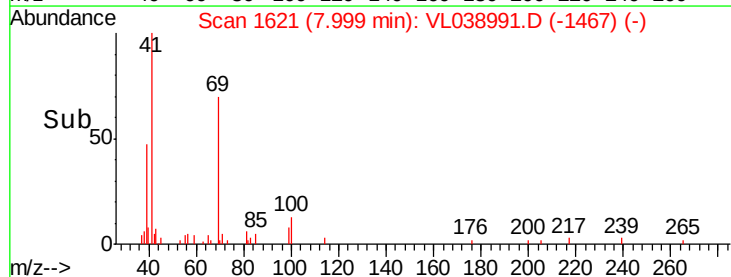
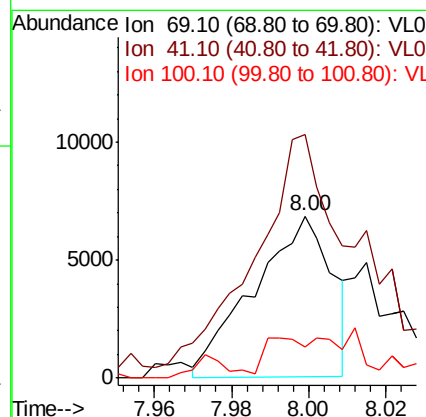
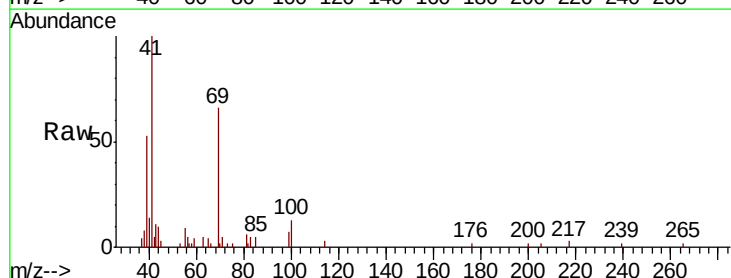
RT: 8.00 min Scan# 1621

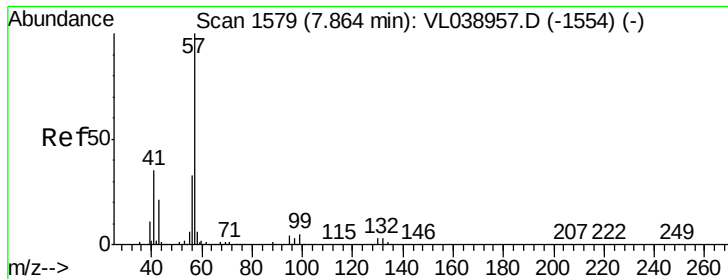
Delta R.T. -0.01 min

Lab File: VL038991.D

Acq: 9 May 2022 17:43

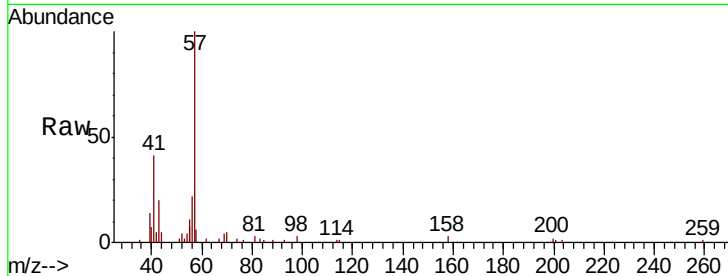
Tgt Ion:	69	Resp:	9569
Ion	Ratio	Lower	Upper
69	100		
41	240.8	121.9	182.9#
100	0.0	24.6	36.8#



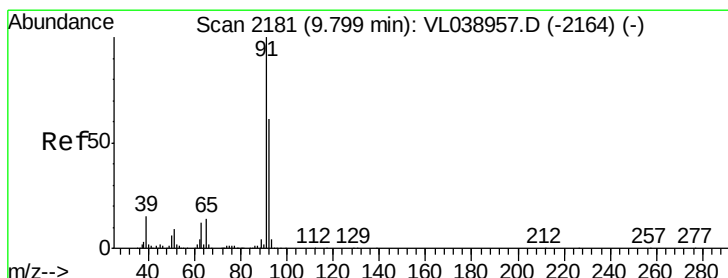
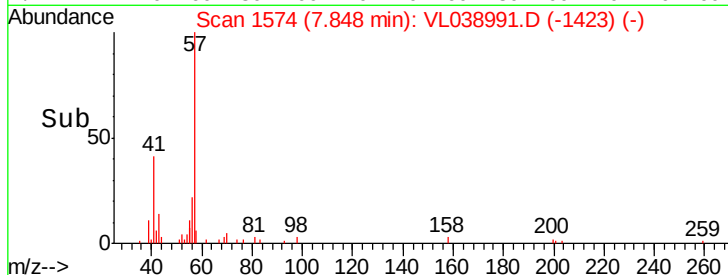
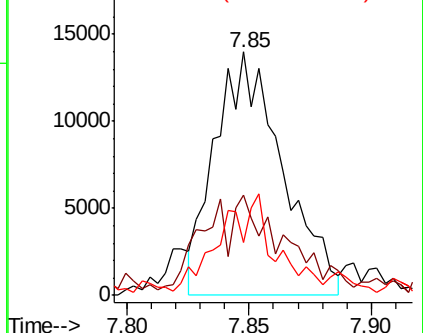


#44
 2,2,4-Trimethylpentane
 Concen: 0.074 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 9 May 2022 17:43

Tot Ion	57	Resp	26841
Ion Ratio	Lower	Upper	
57	100		
41	56.6	26.3	39.5#
56	42.6	24.6	37.0#

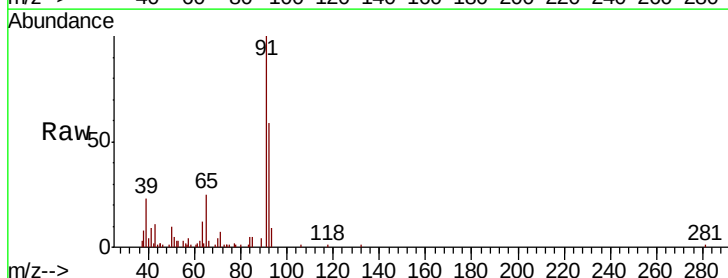


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

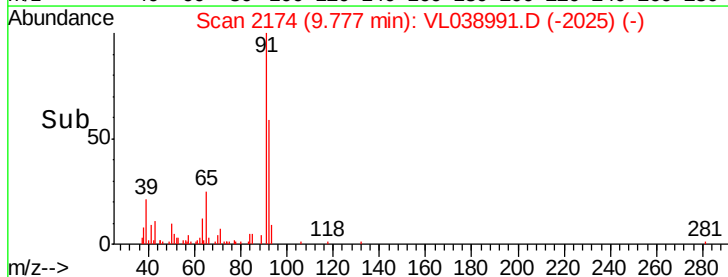
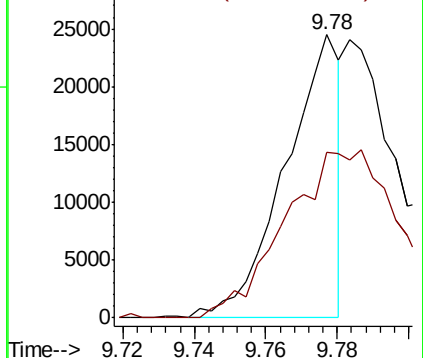


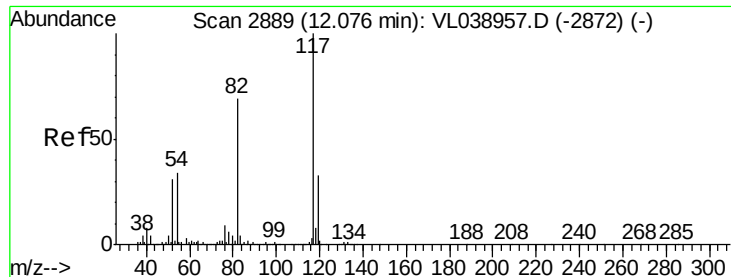
#53
 Toluene
 Concen: 0.112 ppbv
 RT: 9.78 min Scan# 2174
 Delta R.T. -0.02 min
 Lab File: VL038991.D
 Acq: 9 May 2022 17:43

Tgt Ion	91	Resp	25956
Ion Ratio	Lower	Upper	
91	100		
92	0.0	48.2	72.2#



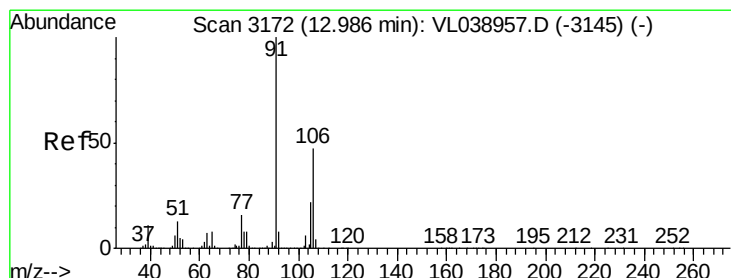
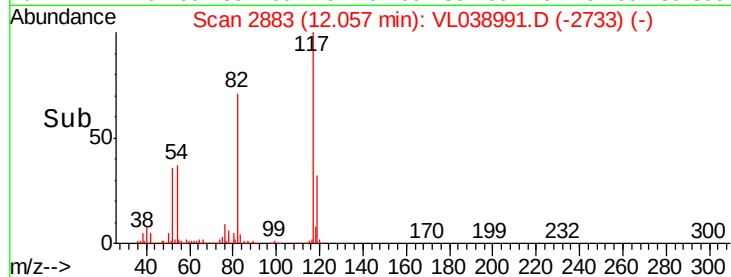
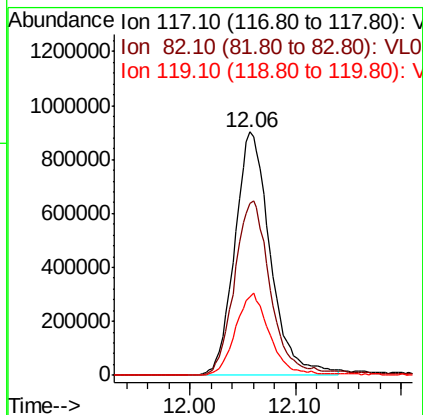
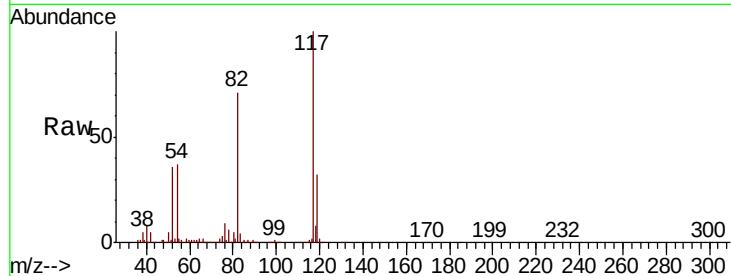
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0





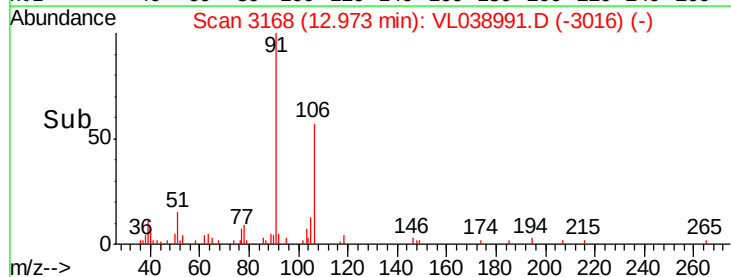
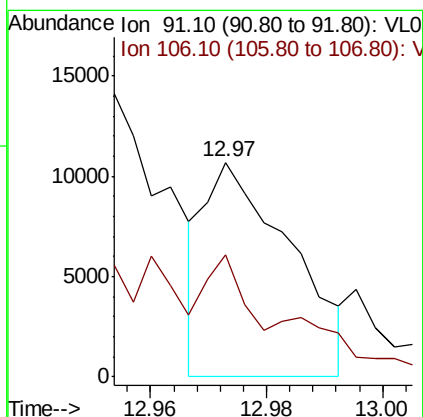
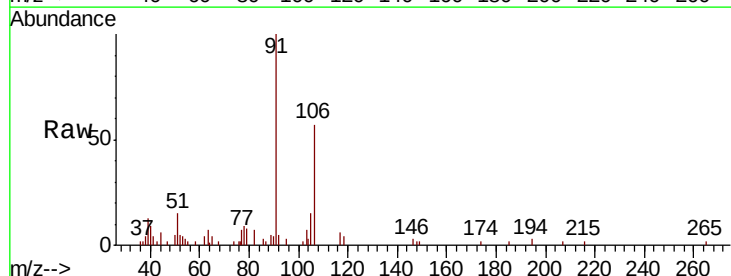
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 9 May 2022 17:43

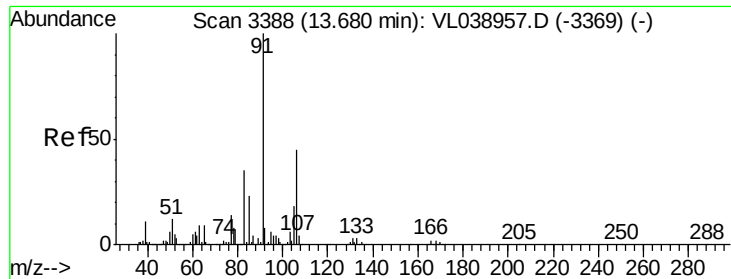
Tot Ion: 117 Resp: 2110162
Ion Ratio Lower Upper
117 100
82 75.0 57.0 85.6
119 33.1 27.2 40.8



#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 12.97 min Scan# 3168
Delta R.T.: -0.01 min
Lab File: VL038991.D
Acq: 9 May 2022 17:43

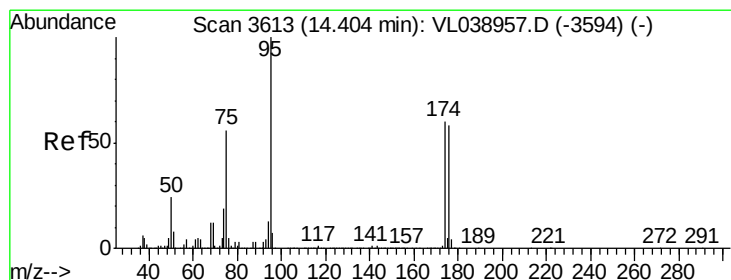
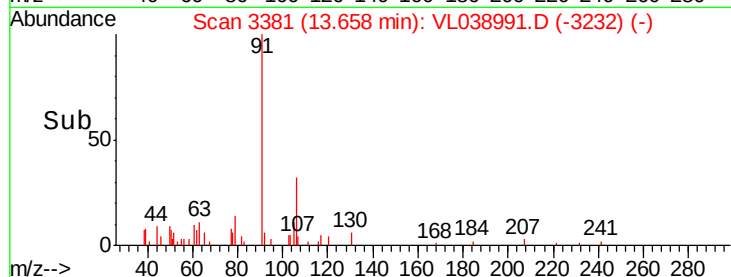
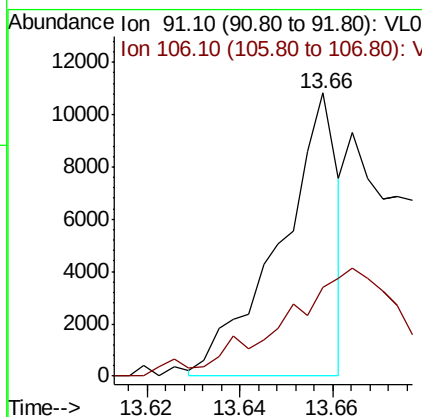
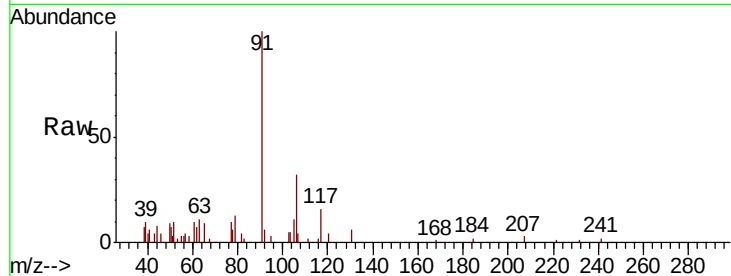
Tgt Ion: 91 Resp: 11041
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#





#60
o-Xylene
Concen: 0.039 ppbv
RT: 13.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 9 May 2022 17:43

Tot Ion: 91 Resp: 9433
Ion Ratio Lower Upper
91 100
106 0.0 22.2 66.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.664 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.02 min
Lab File: VL038991.D
Acq: 9 May 2022 17:43

Tgt Ion: 95 Resp: 1782040
Ion Ratio Lower Upper
95 100
174 60.6 50.8 76.2
175 4.4 3.8 5.6

