

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
 Data File : VL039011.D
 Acq On : 10 May 2022 6:59
 Operator : SY/AP
 Sample : N2696-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: May 10 08:09:48 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	945772	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2854932	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2465432	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1688705	8.65	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.50%

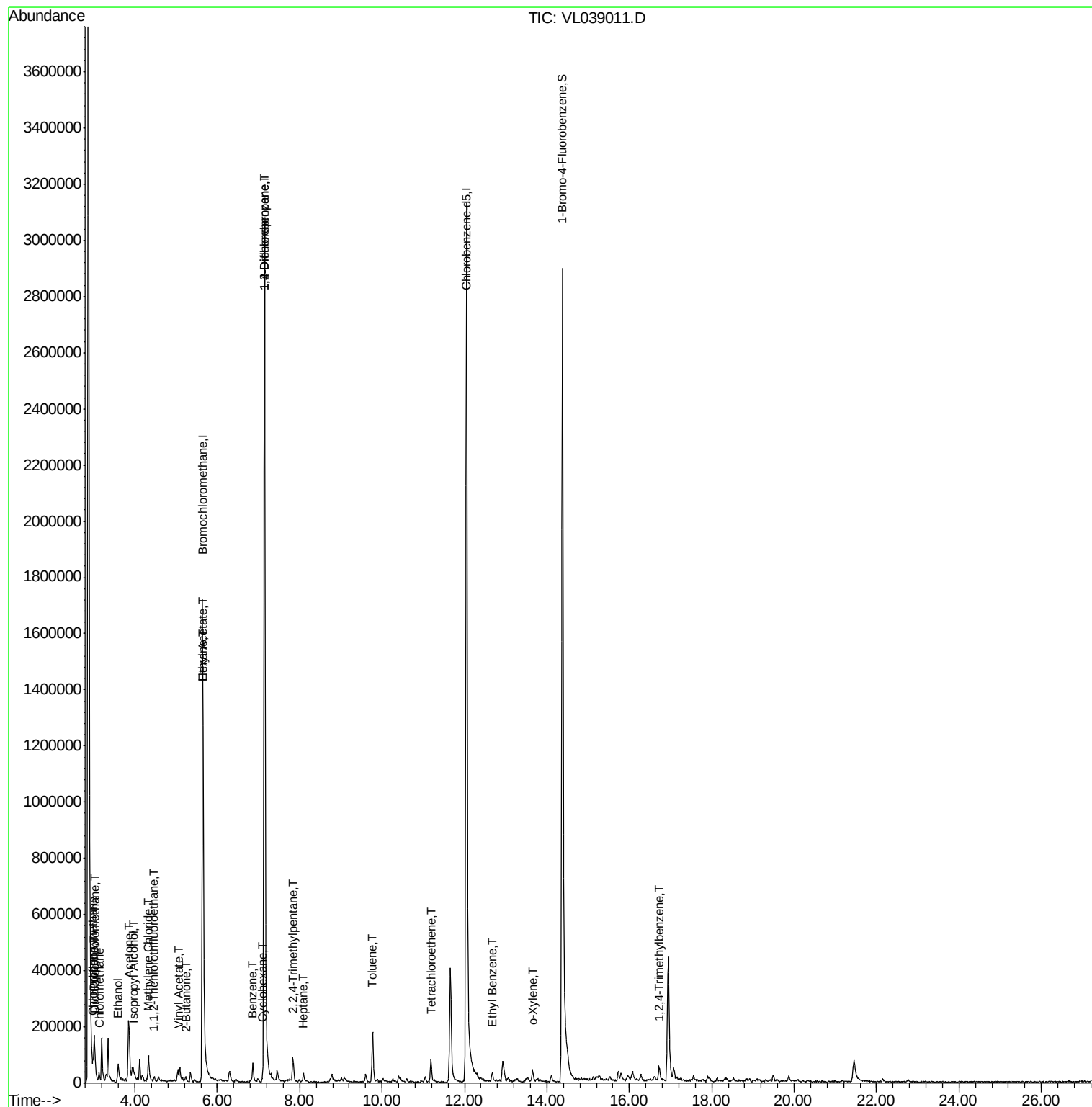
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	47056	0.318	ppbv	95
3) Chlorodifluoromethane	2.98	51	65392	0.557	ppbv #	85
4) Chloromethane	3.13	50	33792	0.575	ppbv #	78
9) Propene	3.01	41	48303	0.942	ppbv	86
10) Heptane	8.08	43	5377	0.043	ppbv #	27
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4185	0.048	ppbv #	28
13) Ethanol	3.59	45	85198	23.490	ppbv	99
15) Acetone	3.84	43	303832	3.406	ppbv	98
19) Isopropyl Alcohol	3.96	45	15887	0.375	ppbv #	95
20) Methylene Chloride	4.33	84	34063	1.013	ppbv	89
23) Vinyl Acetate	5.06	43	2641	0.037	ppbv #	21
25) Ethyl Acetate	5.66	43	24520	0.115	ppbv #	86
26) Hexane	5.66	57	62778	0.662	ppbv #	43
30) Cyclohexane	7.10	84	3479	0.044	ppbv #	1
34) 2-Butanone	5.23	43	10526	0.072	ppbv #	54
36) Benzene	6.86	78	59620	0.244	ppbv #	90
39) 1,2-Dichloropropane	7.14	63	652910	6.868	ppbv #	26
44) 2,2,4-Trimethylpentane	7.83	57	46248	0.108	ppbv #	41
52) Tetrachloroethene	11.18	164	8851	0.101	ppbv	89
53) Toluene	9.77	91	128589	0.470	ppbv	89
58) Ethyl Benzene	12.67	91	24226	0.068	ppbv	97
60) o-Xylene	13.65	91	33040	0.116	ppbv	100
74) 1,2,4-Trimethylbenzene	16.72	105	27517	0.086	ppbv #	65

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
Data File : VL039011.D
Acq On : 10 May 2022 6:59
Operator : SY/AP
Sample : N2696-06
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: May 10 08:09:48 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

Acq: 10 May 2022 8:59

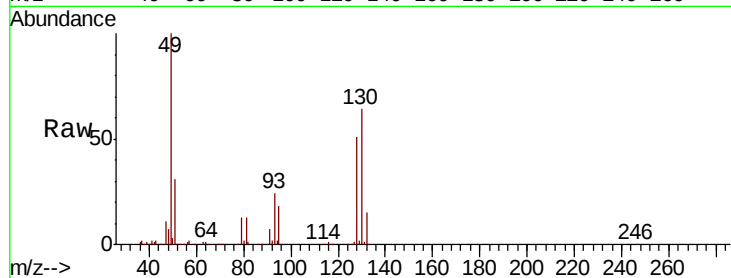
Tot Ion: 49 Resp: 945772

Ion Ratio Lower Upper

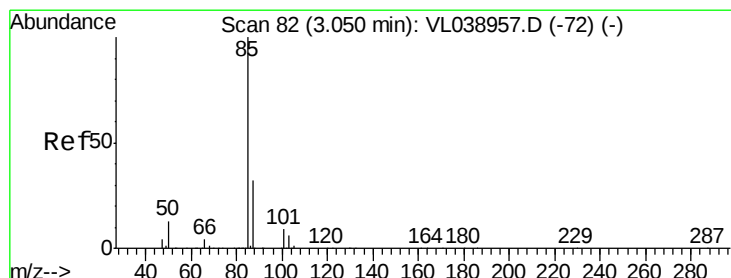
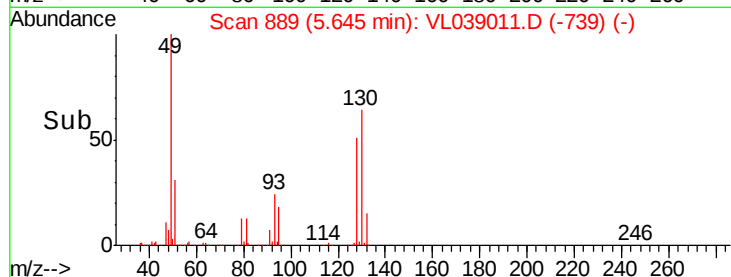
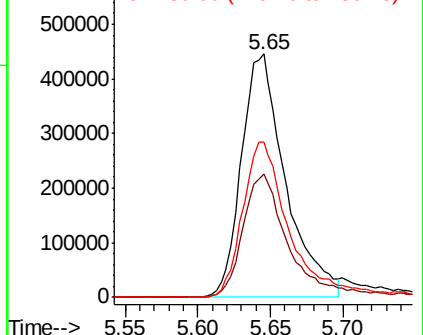
49 100

128 54.5 23.3 69.8

130 69.3 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: 0.318 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL039011.D

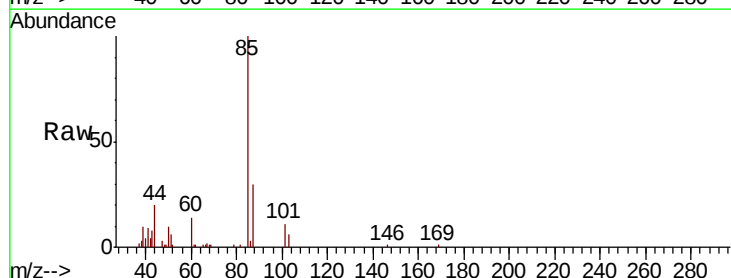
Acq: 10 May 2022 6:59

Tgt Ion: 85 Resp: 47056

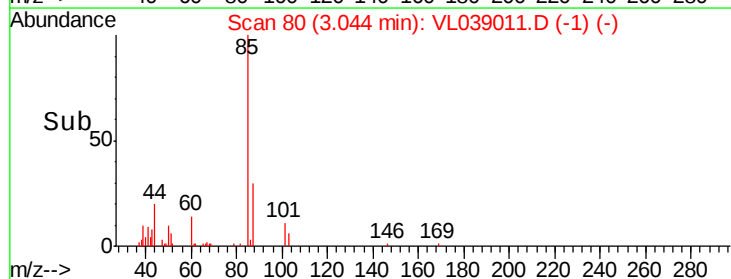
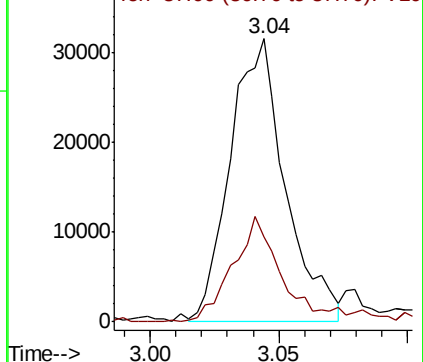
Ion Ratio Lower Upper

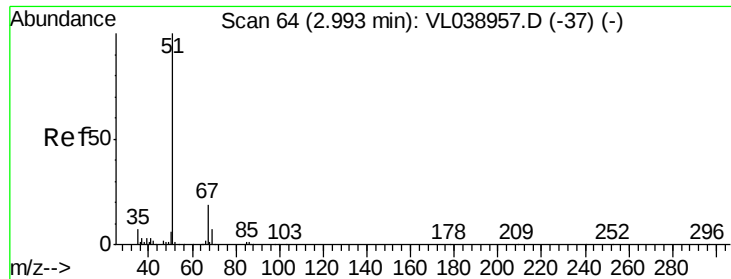
85 100

87 29.4 25.7 38.5



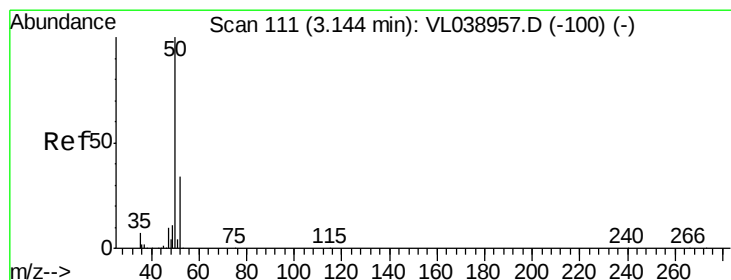
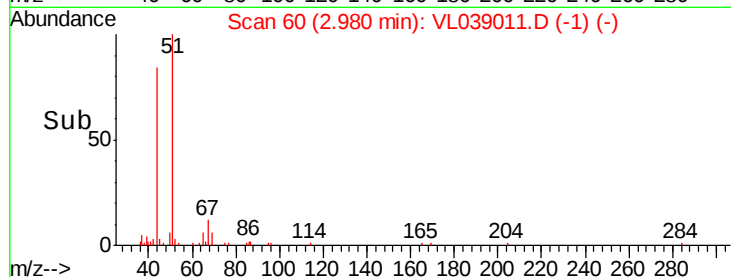
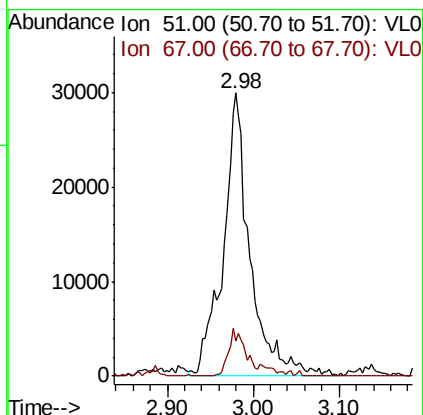
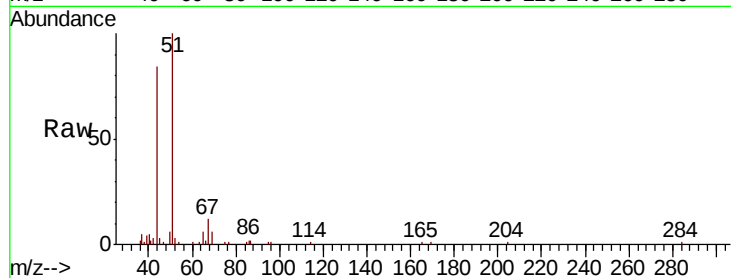
Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





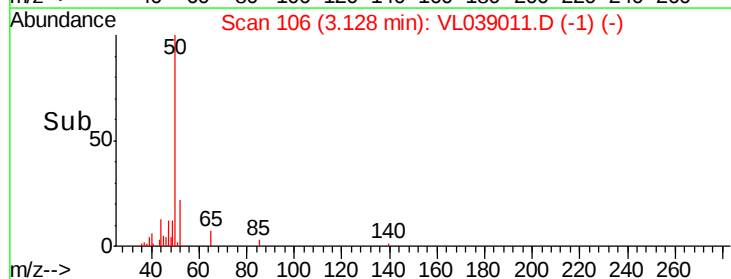
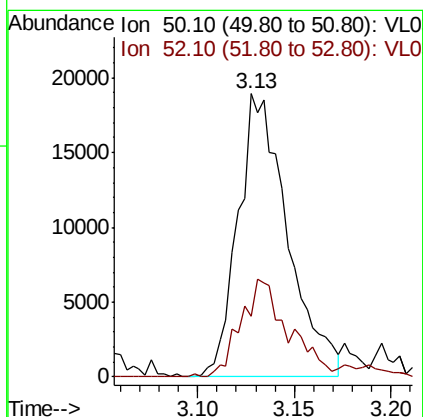
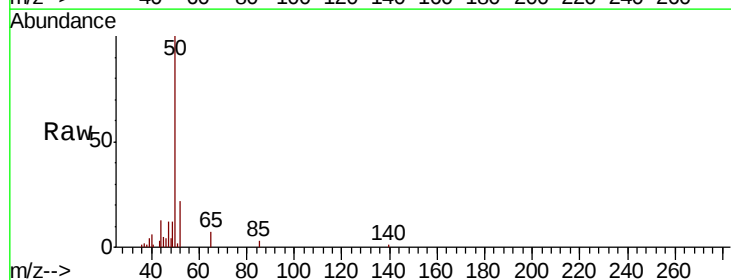
#3
 Chlorodifluoromethane
 Concen: 0.557 ppbv
 RT: 2.98
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 10 May 2022 8:59

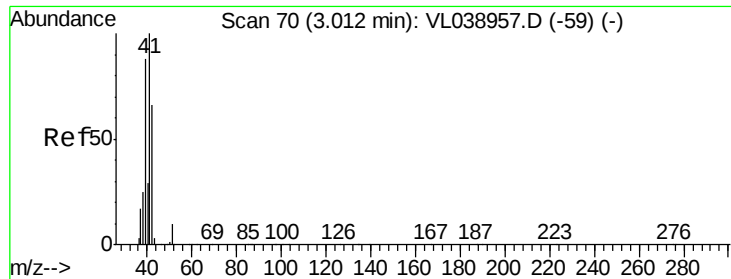
Tot Ion: 51 Resp: 65392
 Ion Ratio Lower Upper
 51 100
 67 13.0 15.8 23.8#



#4
 Chloromethane
 Concen: 0.575 ppbv
 RT: 3.13 min Scan# 106
 Delta R.T. -0.02 min
 Lab File: VL039011.D
 Acq: 10 May 2022 6:59

Tgt Ion: 50 Resp: 33792
 Ion Ratio Lower Upper
 50 100
 52 21.6 27.3 40.9#





#9

Propene

Concen: 0.942 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

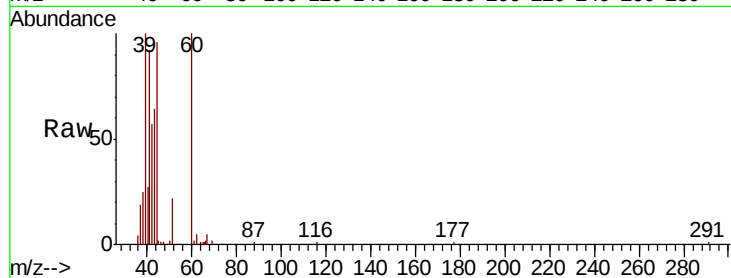
Acq: 10 May 2022 8:59

Tot Ion: 41 Resp: 48303

Ion Ratio Lower Upper

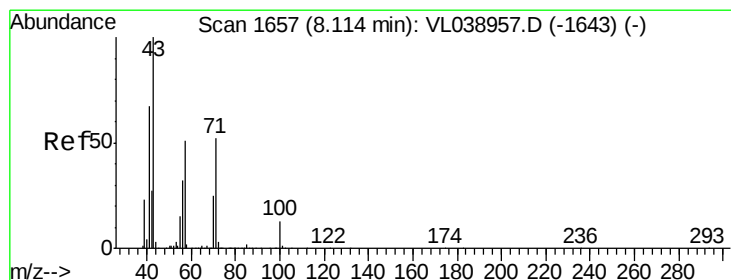
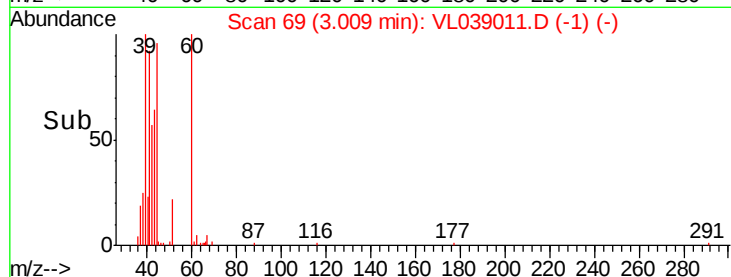
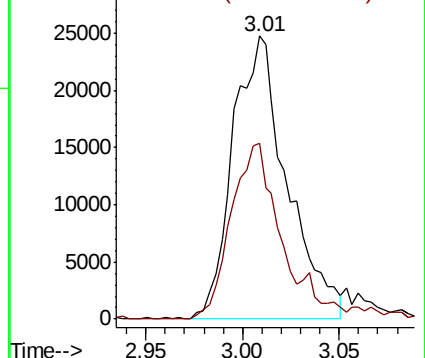
41 100

42 61.0 58.3 87.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.043 ppbv

RT: 8.08 min Scan# 1647

Delta R.T. -0.03 min

Lab File: VL039011.D

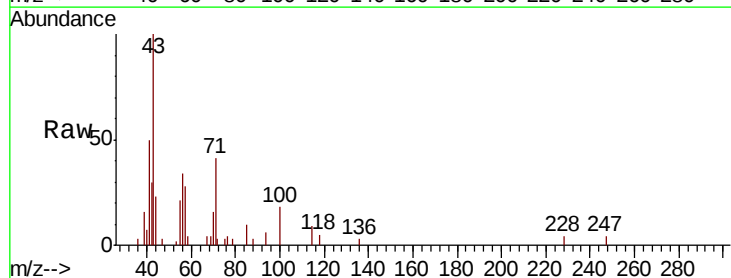
Acq: 10 May 2022 6:59

Tgt Ion: 43 Resp: 5377

Ion Ratio Lower Upper

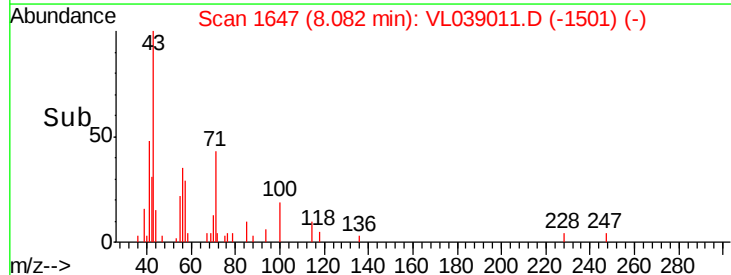
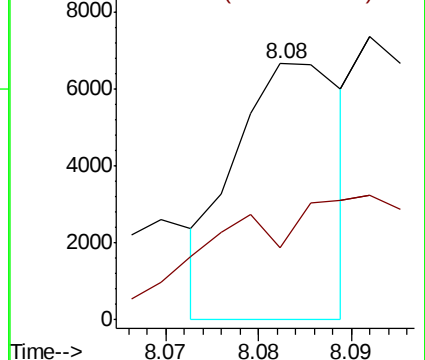
43 100

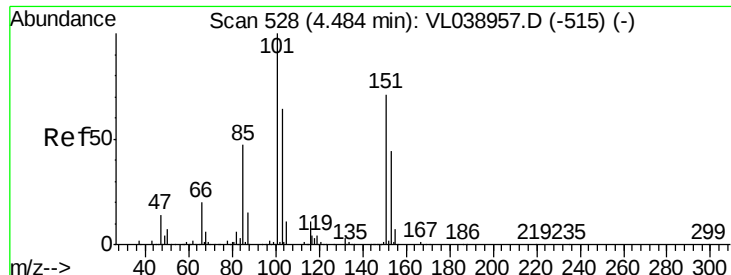
57 0.0 40.5 60.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.048 ppbv

RT: 4.47 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

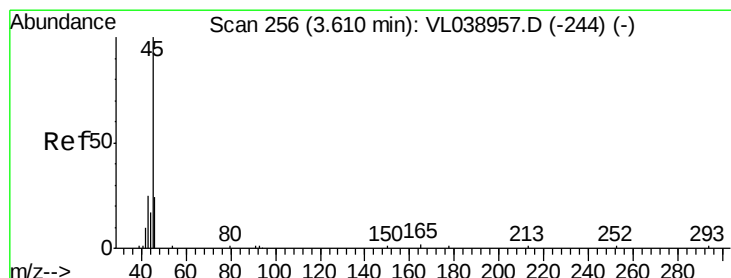
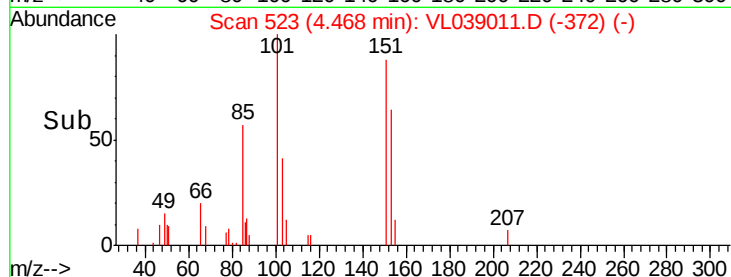
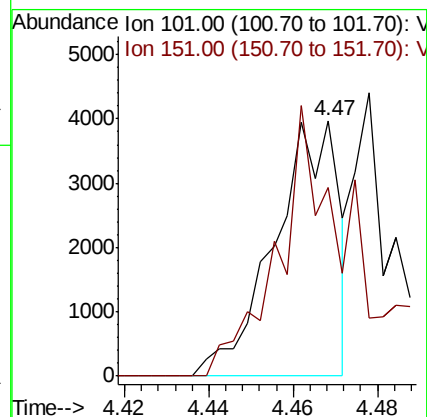
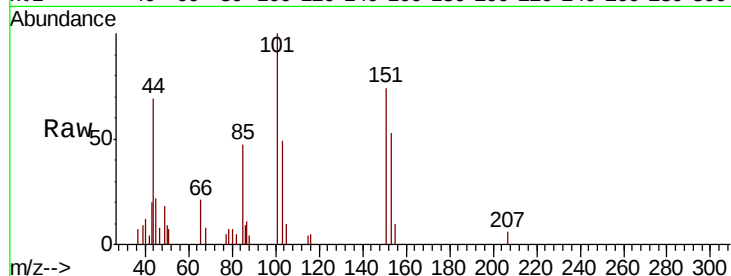
Acq: 10 May 2022 8:59

Tot Ion:101 Resp: 4185

Ion Ratio Lower Upper

101 100

151 128.2 55.4 83.0#



#13

Ethanol

Concen: 23.490 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL039011.D

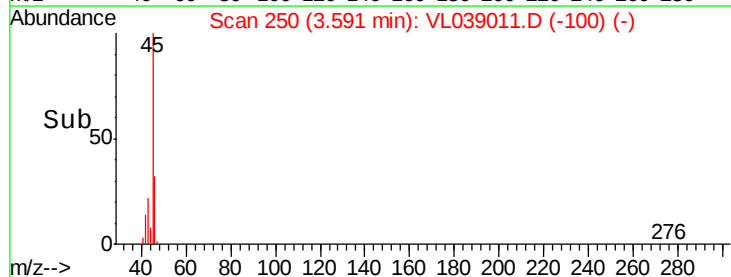
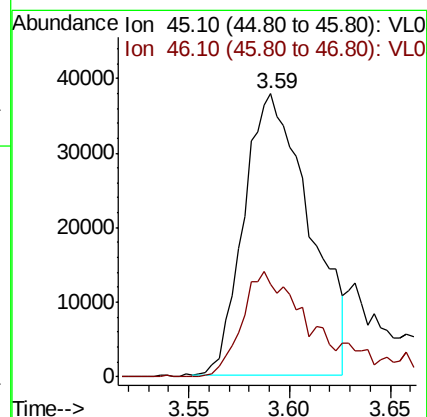
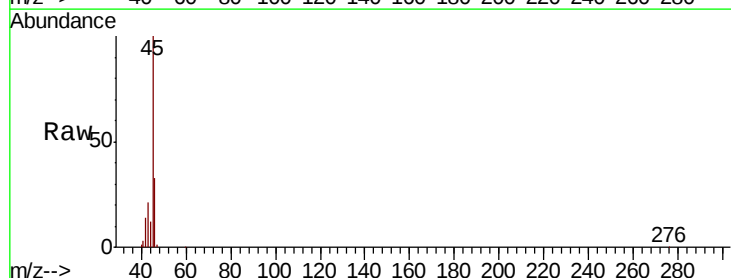
Acq: 10 May 2022 6:59

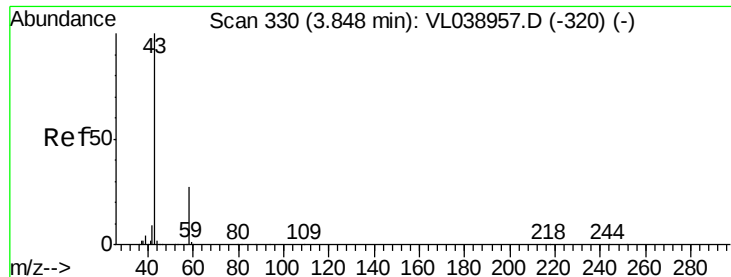
Tgt Ion: 45 Resp: 85198

Ion Ratio Lower Upper

45 100

46 44.1 18.0 72.2





#15

Acetone

Concen: 3.406 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

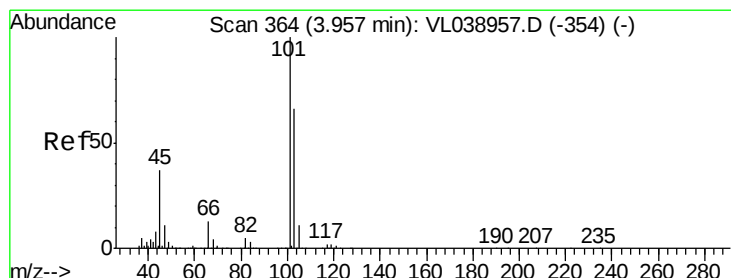
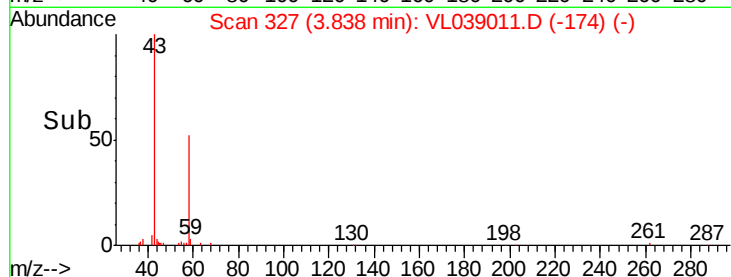
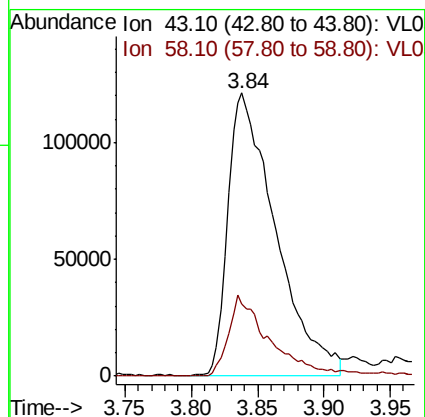
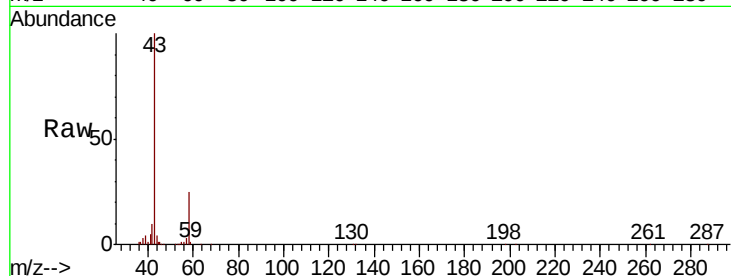
Acq: 10 May 2022 8:59

Tot Ion: 43 Resp: 303832

Ion Ratio Lower Upper

43 100

58 25.7 21.3 31.9



#19

Isopropyl Alcohol

Concen: 0.375 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL039011.D

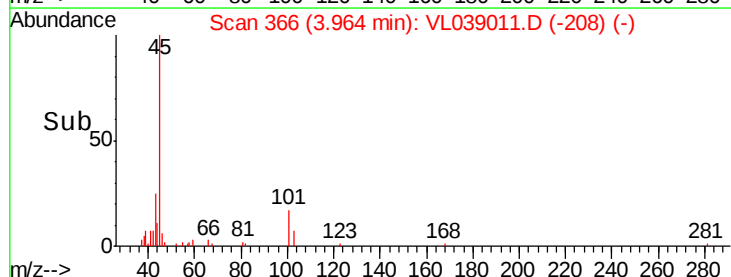
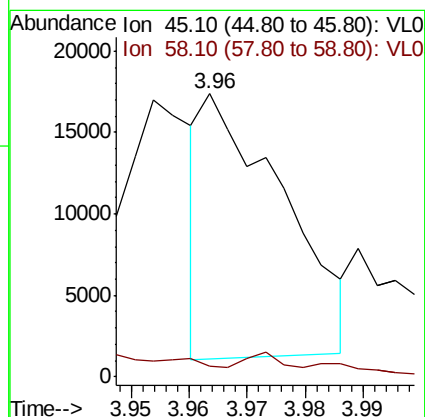
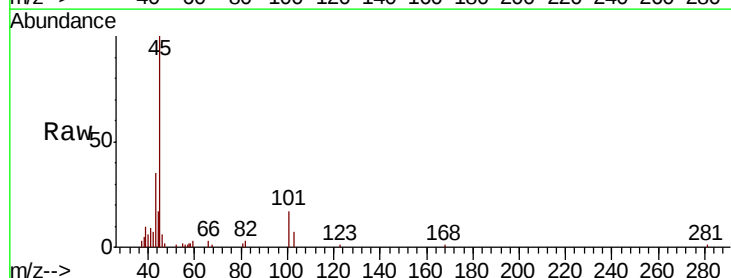
Acq: 10 May 2022 6:59

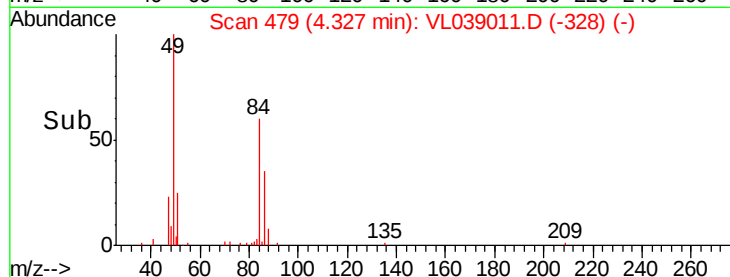
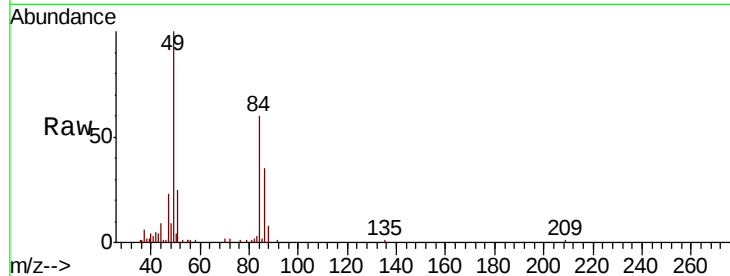
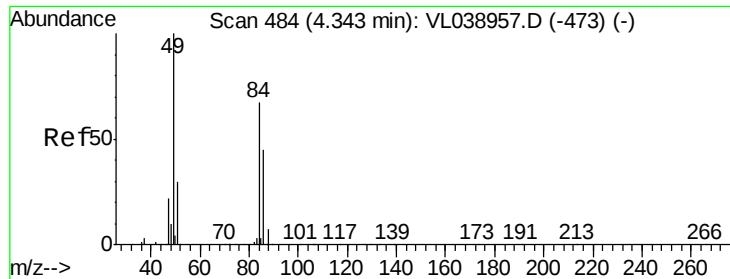
Tgt Ion: 45 Resp: 15887

Ion Ratio Lower Upper

45 100

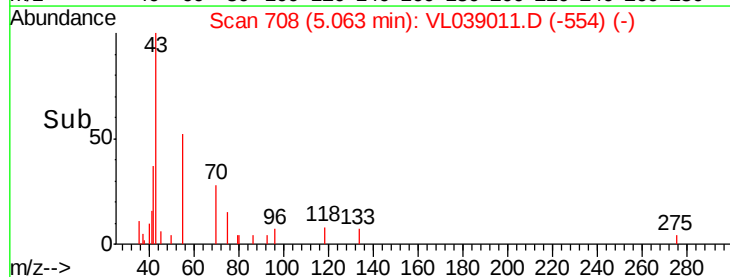
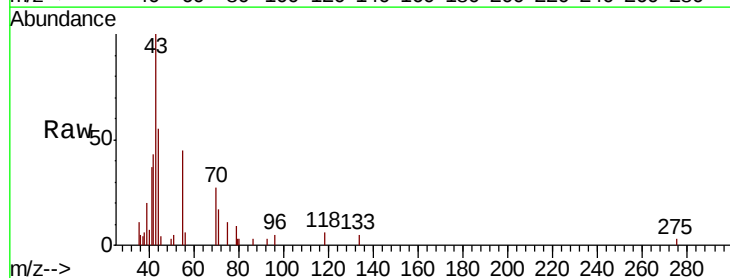
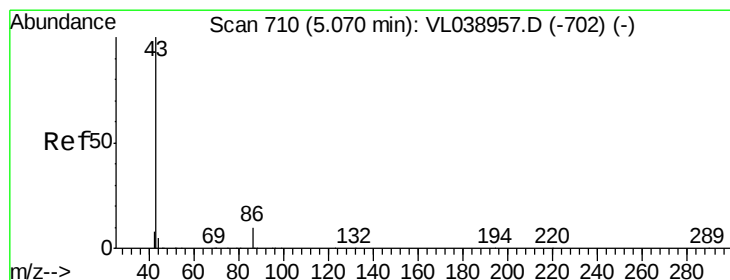
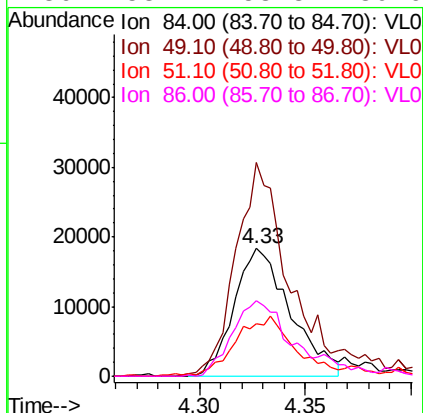
58 0.0 1.4 2.2#





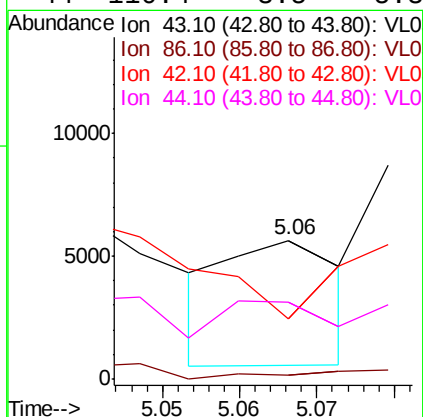
#20
Methvlene Chloride
Concen: 1.013 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 May 2022 8:59

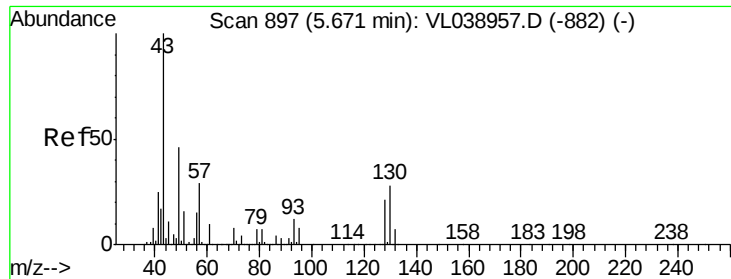
Tot Ion:	84	Resp:	34063
Ion	Ratio	Lower	Upper
84	100		
49	165.4	119.9	179.9
51	39.6	35.7	53.5
86	58.2	53.8	80.6



#23
Vinyl Acetate
Concen: 0.037 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.01 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

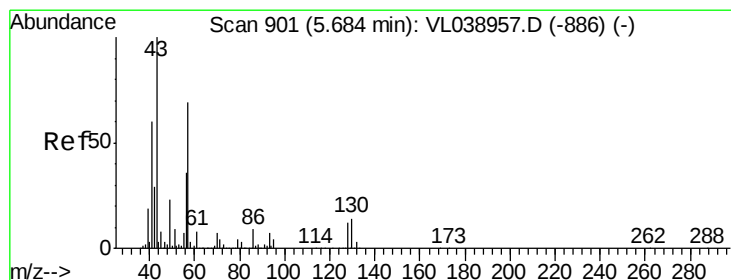
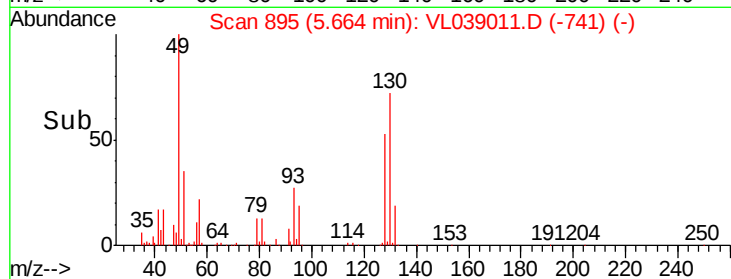
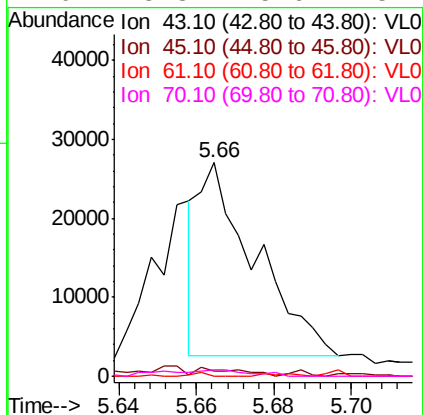
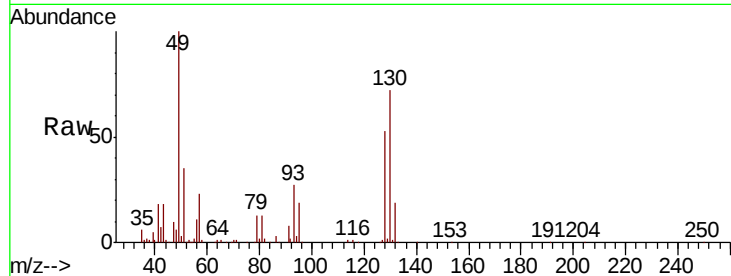
Tgt Ion:	43	Resp:	2641
Ion	Ratio	Lower	Upper
43	100		
86	12.5	6.6	9.8#
42	0.0	8.1	12.1#
44	110.4	3.5	5.3#





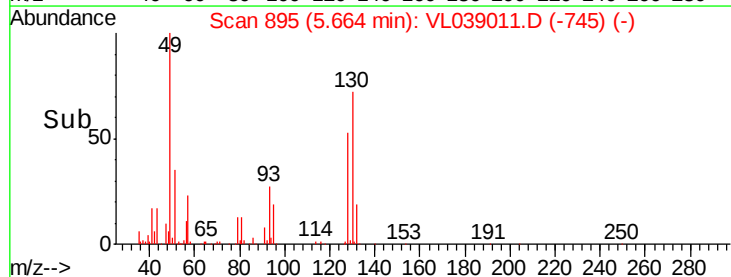
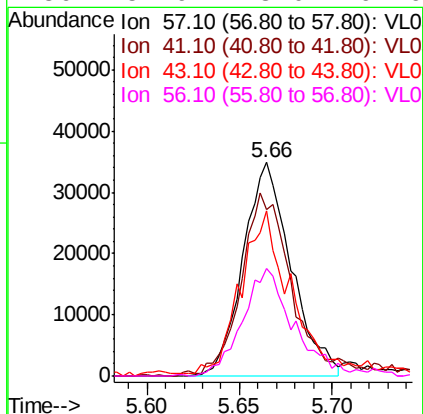
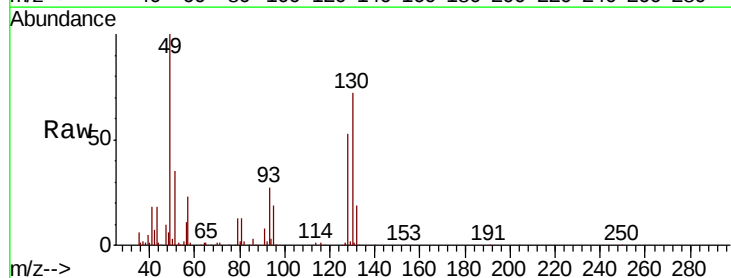
#25
Ethyl Acetate
Concen: 0.115 ppbv
RT: 5.66 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 May 2022 8:59

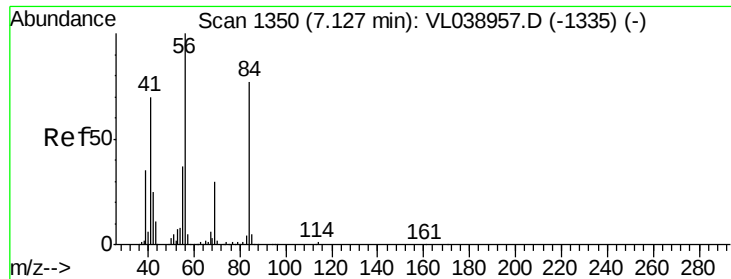
Tot Ion:	43	Resp:	24520
Ion	Ratio	Lower	Upper
43	100		
45	12.8	8.1	12.1#
61	0.0	7.8	11.6#
70	5.3	5.6	8.4#



#26
Hexane
Concen: 0.662 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

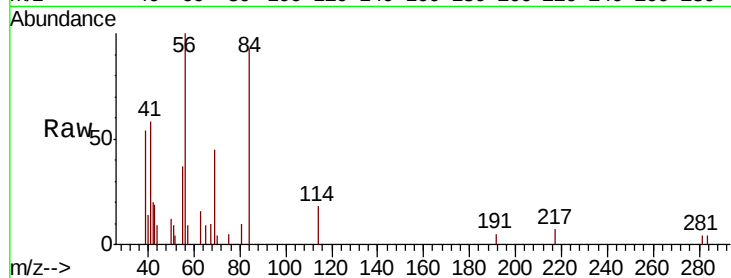
Tgt Ion:	57	Resp:	62778
Ion	Ratio	Lower	Upper
57	100		
41	94.5	75.2	112.8
43	84.4	190.8	286.2#
56	54.9	43.0	64.6



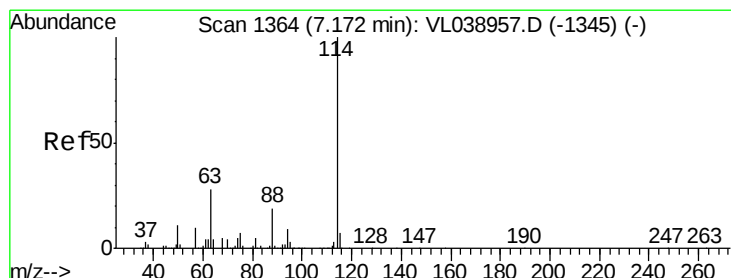
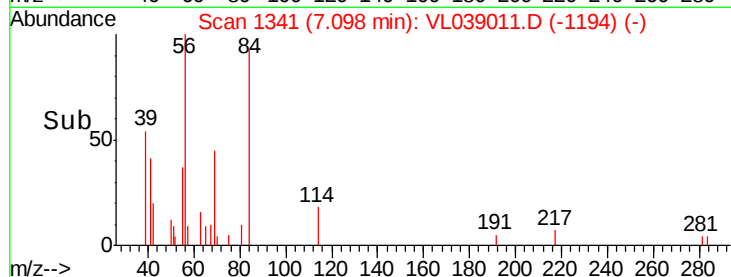
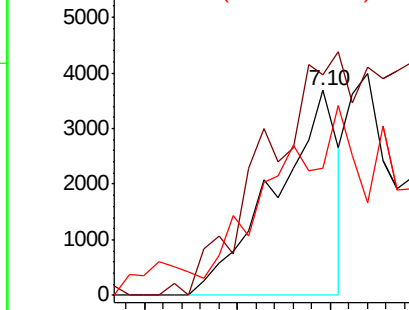


#30
Cvclohexane
Concen: 0.044 ppbv
RT: 7.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 10 May 2022 8:59

Tot Ion: 84 Resp: 3479
Ion Ratio Lower Upper
84 100
56 0.0 115.3 172.9#
41 190.5 72.0 108.0#

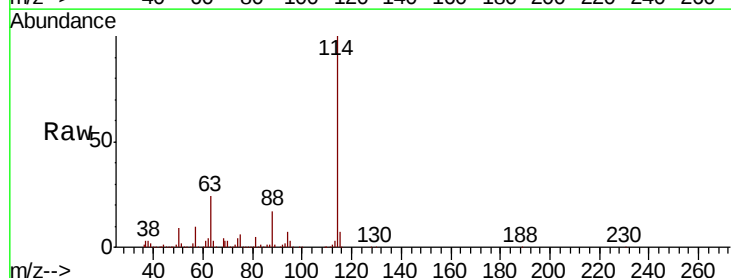


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

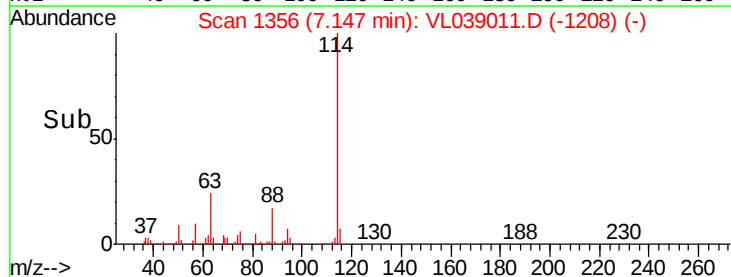
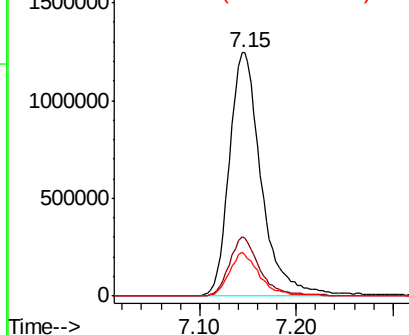


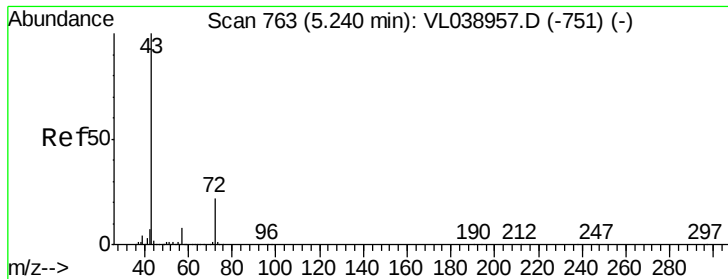
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

Tgt Ion: 114 Resp: 2854932
Ion Ratio Lower Upper
114 100
63 23.6 22.6 33.8
88 17.5 15.4 23.0



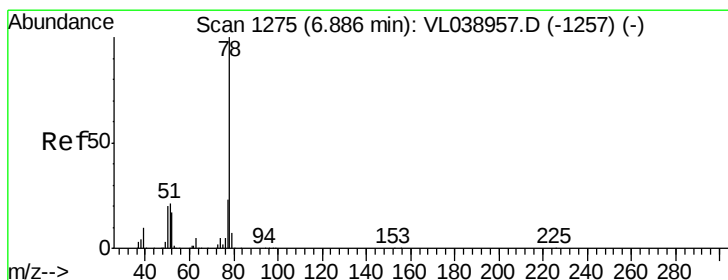
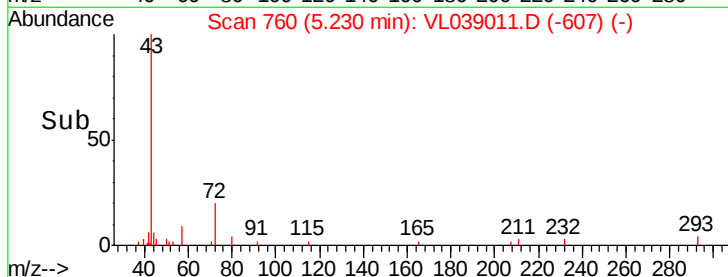
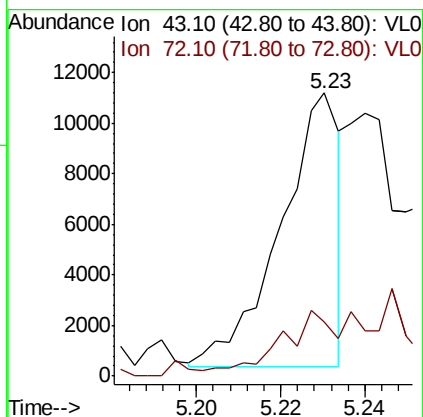
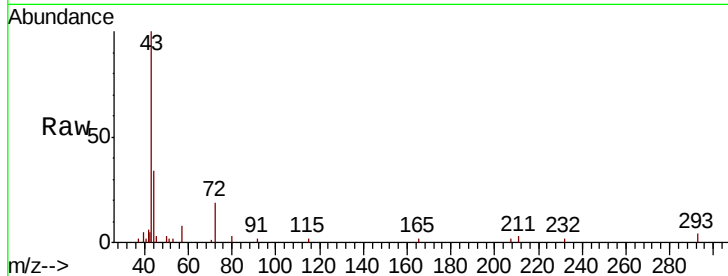
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





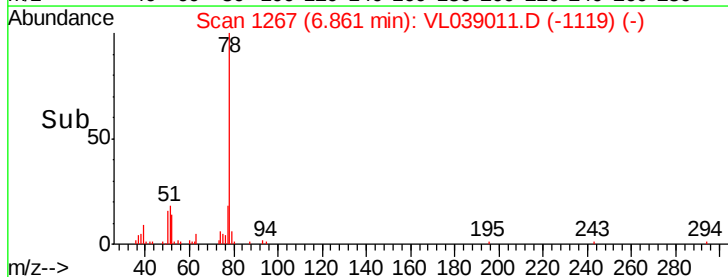
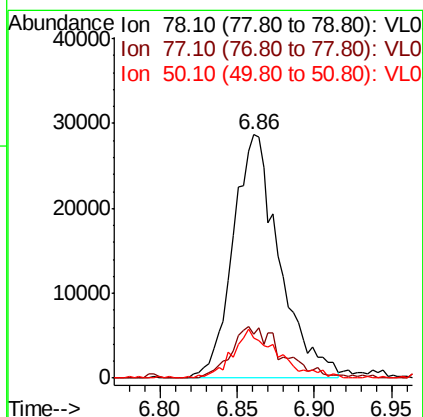
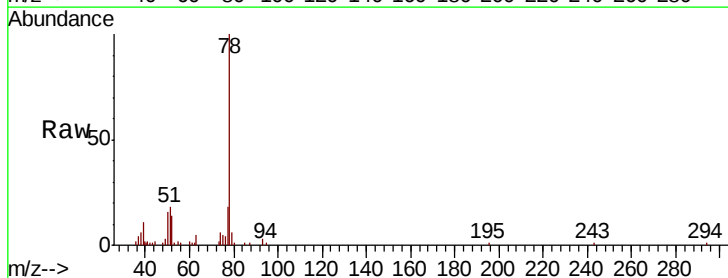
#34
 2-Butanone
 Concen: 0.072 ppbv
 RT: 5.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 10 May 2022 0:59

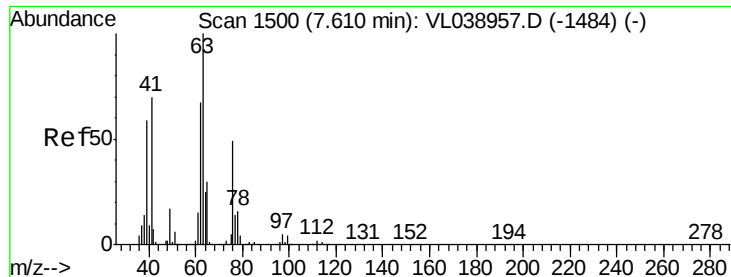
Tot Ion: 43 Resp: 10526
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#



#36
 Benzene
 Concen: 0.244 ppbv
 RT: 6.86 min Scan# 1267
 Delta R.T. -0.03 min
 Lab File: VL039011.D
 Acq: 10 May 2022 6:59

Tgt Ion: 78 Resp: 59620
 Ion Ratio Lower Upper
 78 100
 77 18.1 18.6 28.0#
 50 15.7 15.6 23.4





#39

1,2-Dichloropropane

Concen: 6.868 ppbv

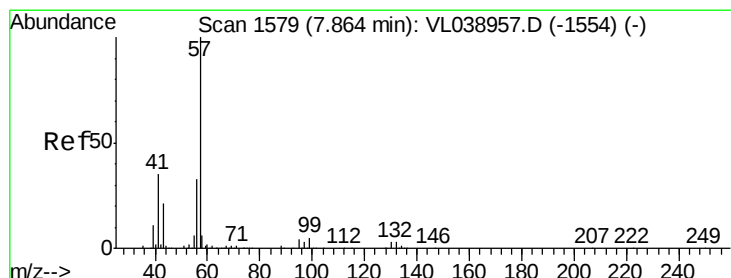
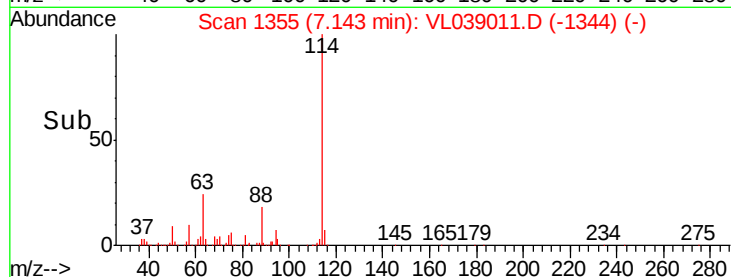
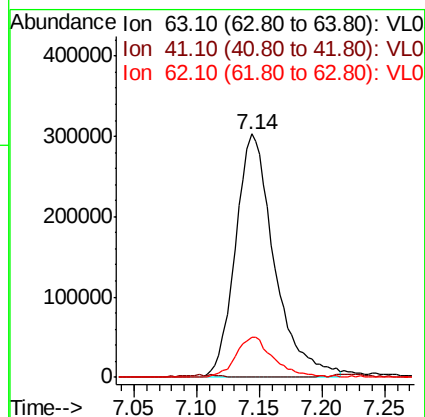
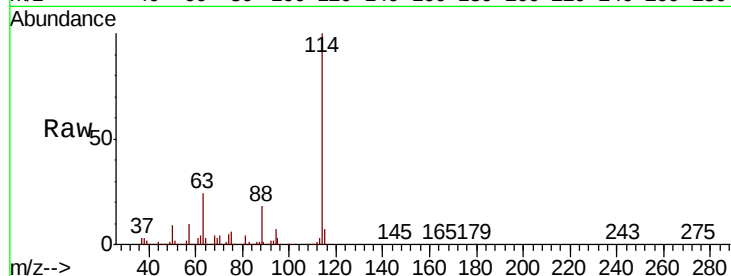
RT: 7.14 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 10 May 2022 8:59

Tot Ion:	63	Resp:	652910
Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	16.5	53.8	80.6#



#44

2,2,4-Trimethylpentane

Concen: 0.108 ppbv

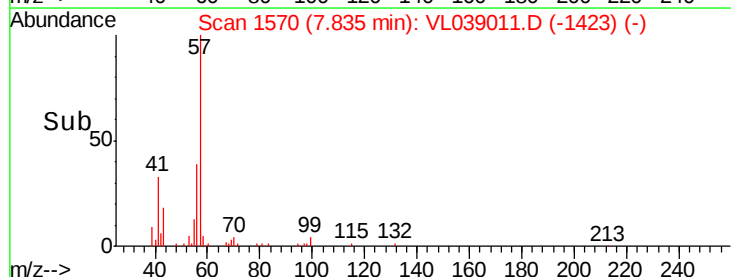
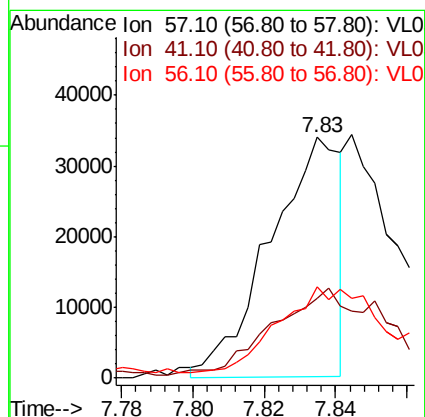
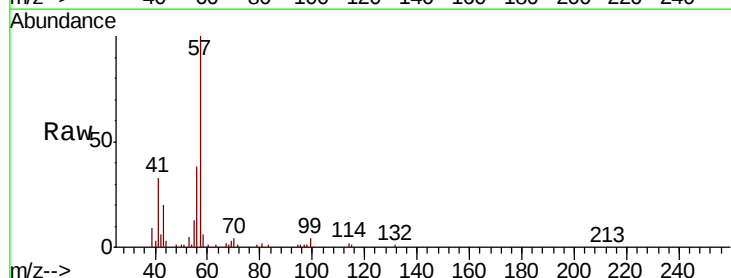
RT: 7.83 min Scan# 1570

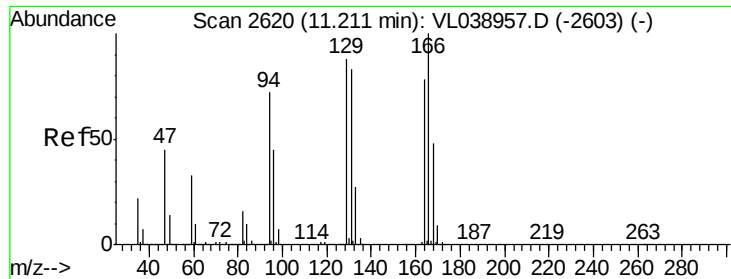
Delta R.T. -0.03 min

Lab File: VL039011.D

Acq: 10 May 2022 6:59

Tgt Ion:	57	Resp:	46248
Ion	Ratio	Lower	Upper
57	100		
41	64.2	26.3	39.5#
56	65.3	24.6	37.0#





#52

Tetrachloroethene

Concen: 0.101 ppbv

RT: 11.18

Delta R.T.

Lab File:

Acq: 10 May 2022

Instrument:

MSVOA_1

ClientSampleId:

OA1

Tot Ion:164 Resp: 8851

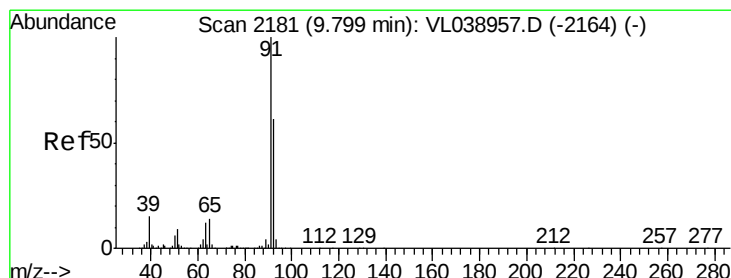
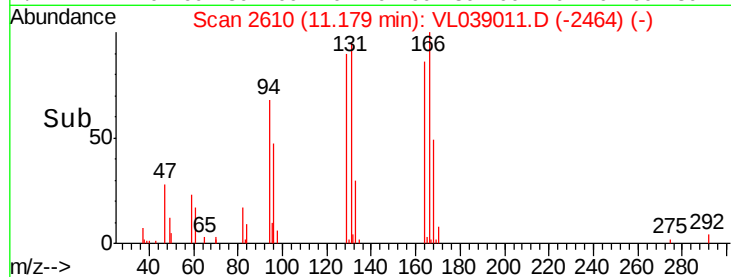
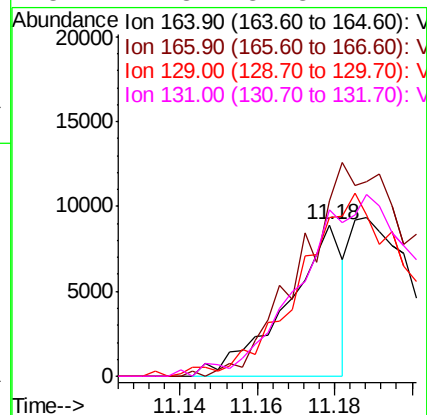
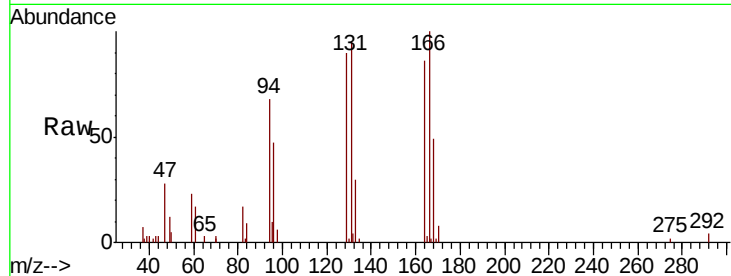
Ion Ratio Lower Upper

164 100

166 112.8 102.5 153.7

129 99.1 90.1 135.1

131 114.3 84.8 127.2



#53

Toluene

Concen: 0.470 ppbv

RT: 9.77 min Scan# 2172

Delta R.T. -0.03 min

Lab File: VL039011.D

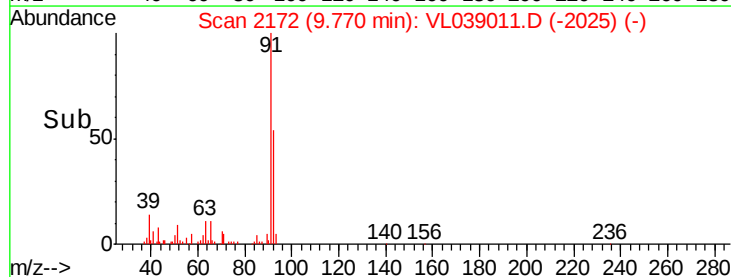
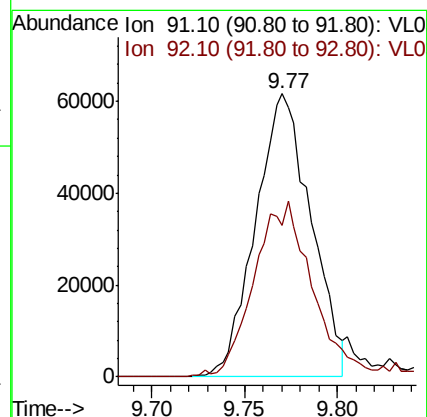
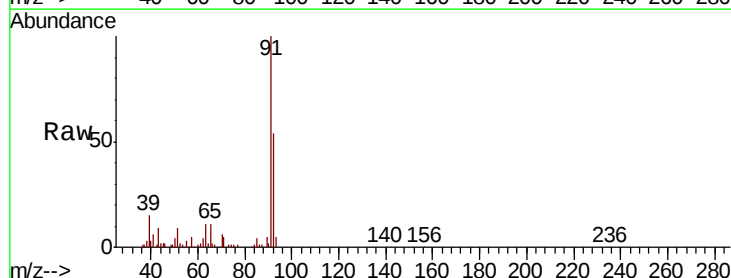
Acq: 10 May 2022 6:59

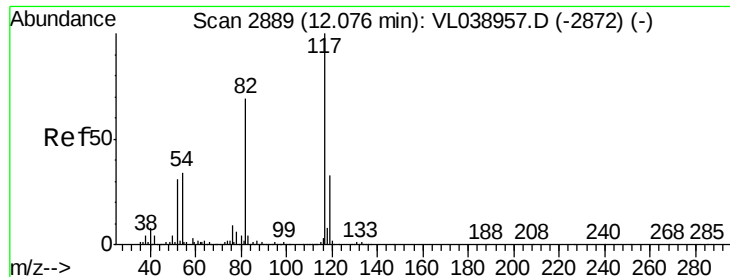
Tgt Ion: 91 Resp: 128589

Ion Ratio Lower Upper

91 100

92 68.6 48.2 72.2

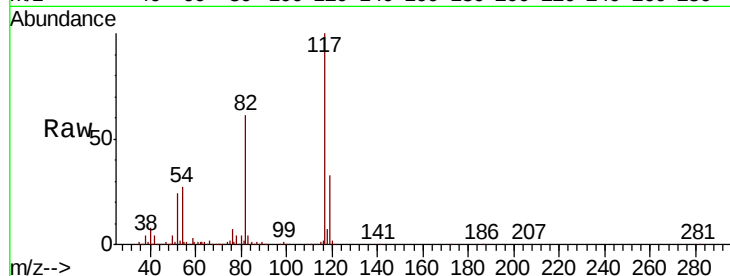




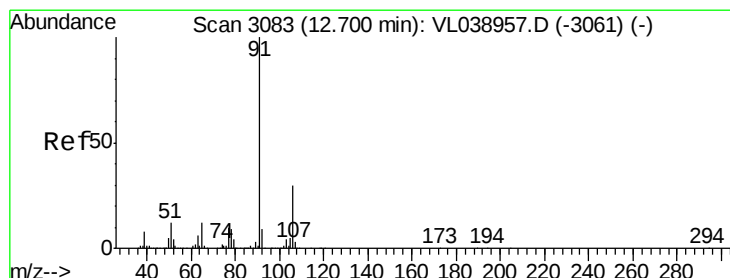
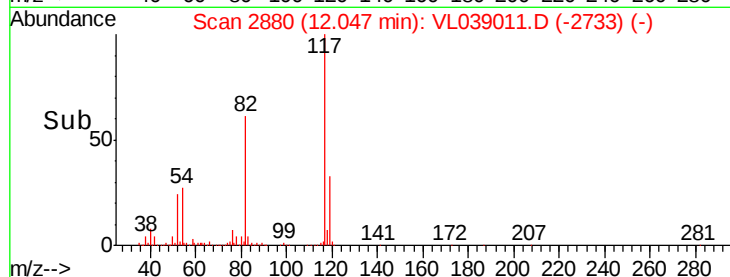
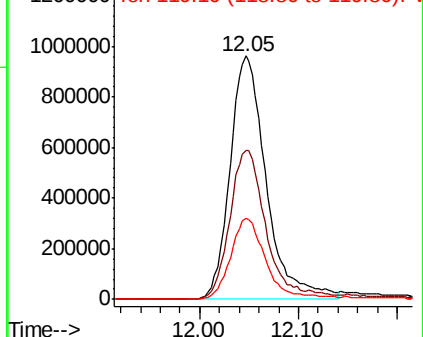
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 10 May 2022 8:59

Tot Ion:117 Resp: 2465432

Ion	Ratio	Lower	Upper
117	100		
82	65.5	57.0	85.6
119	33.6	27.2	40.8



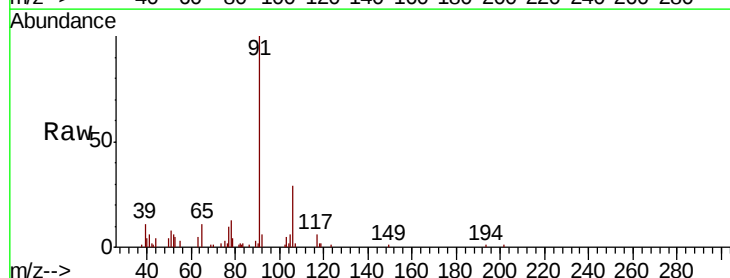
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



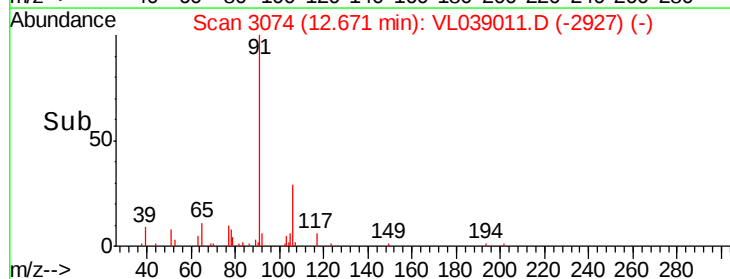
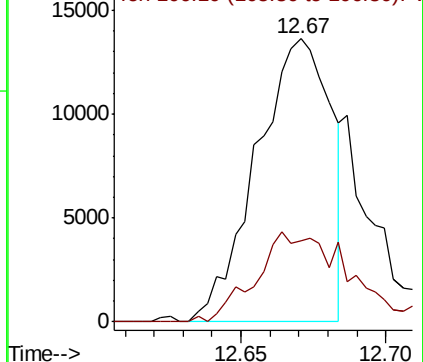
#58
Ethyl Benzene
Concen: 0.068 ppbv
RT: 12.67 min Scan# 3074
Delta R.T. -0.03 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

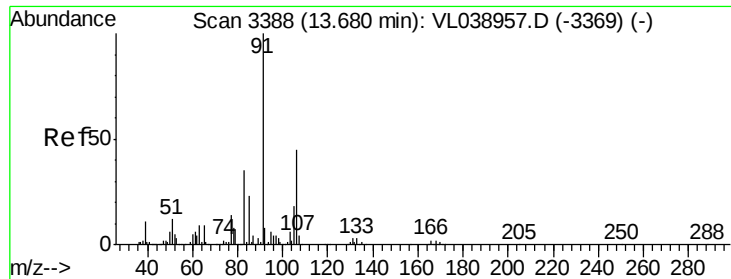
Tgt Ion: 91 Resp: 24226

Ion	Ratio	Lower	Upper
91	100		
106	28.9	24.2	36.4



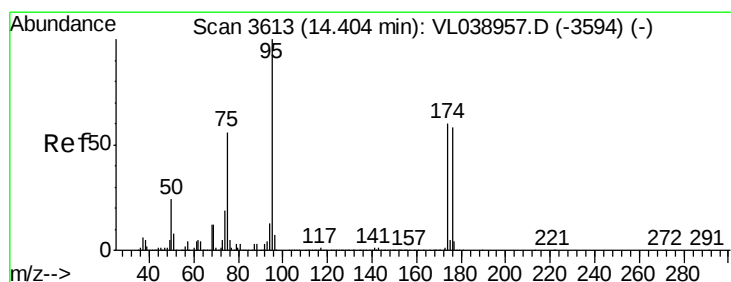
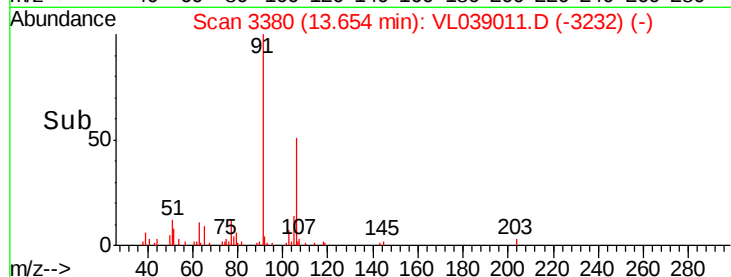
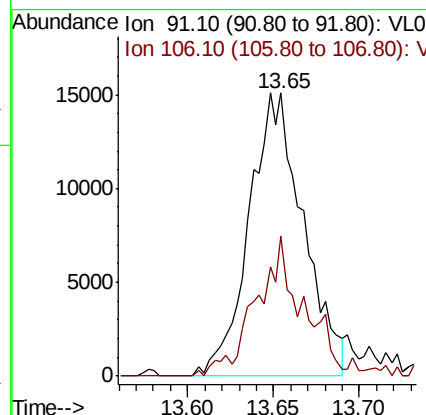
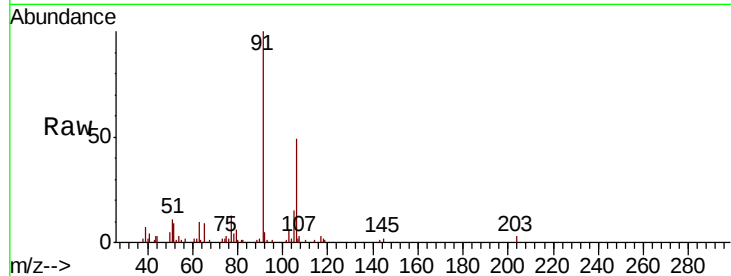
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





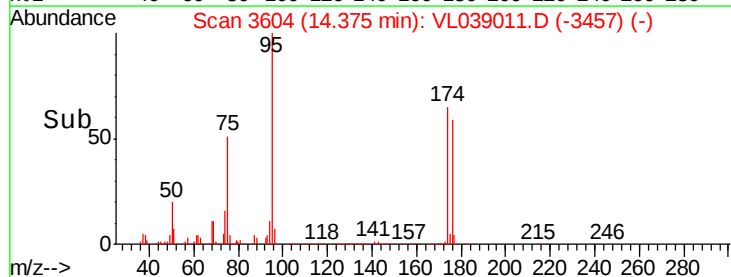
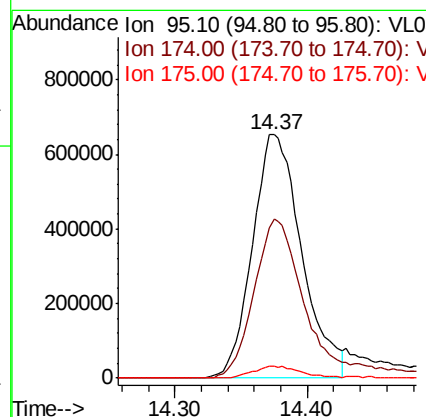
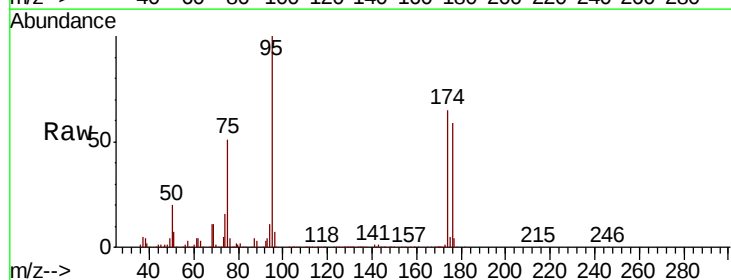
#60
o-Xylene
Concen: 0.116 ppbv
RT: 13.65 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 10 May 2022 8:59

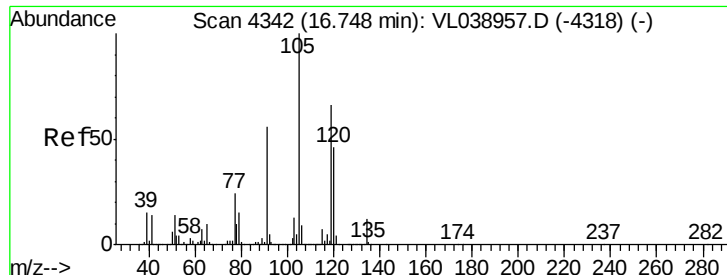
Tot Ion: 91 Resp: 33040
Ion Ratio Lower Upper
91 100
106 44.5 22.2 66.6



#68
1-Bromo-4-Fluorobenzene
Concen: 8.649 ppbv
RT: 14.37 min Scan# 3604
Delta R.T.: -0.03 min
Lab File: VL039011.D
Acq: 10 May 2022 6:59

Tgt Ion: 95 Resp: 1688705
Ion Ratio Lower Upper
95 100
174 71.9 50.8 76.2
175 5.4 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.086 ppbv
 RT: 16.72
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 10 May 2022 8:39

Tot Ion:	105	Resp:	27517
Ion Ratio	Lower	Upper	
105	100		
120	35.4	36.9	55.3#
91	12.4	45.0	67.4#
77	17.9	19.2	28.8#

