

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037579.D
 Acq On : 8 Sep 2021 19:48
 Operator : SY/AP
 Sample : M3663-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Sep 09 09:13:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1556305	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4723631	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4265056	10.00	ppbv	0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2949867	9.74	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%	

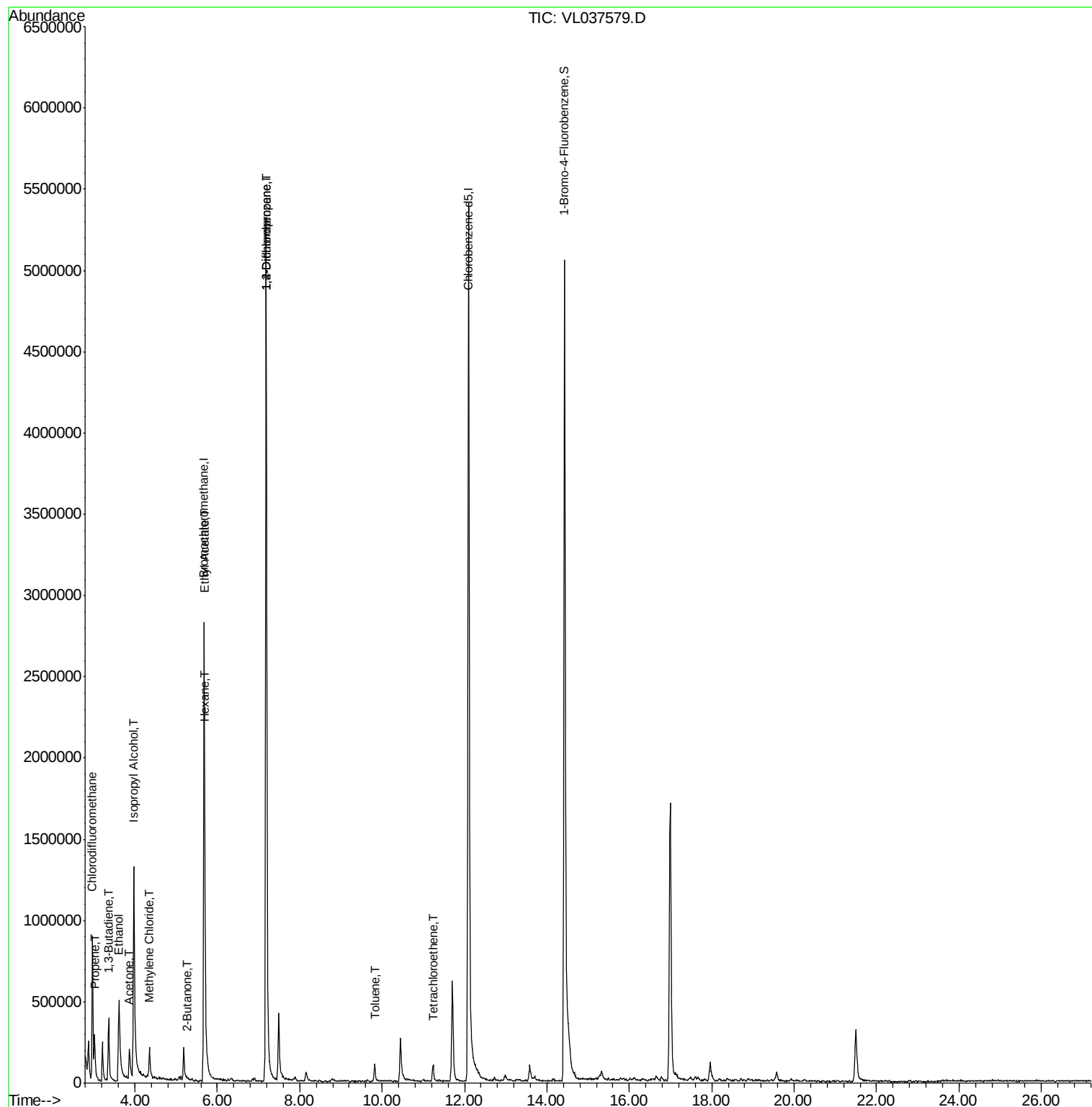
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	736790	2.472	ppbv #	60
9) Propene	3.02	41	63899	0.599	ppbv	84
13) Ethanol	3.61	45	784688	75.626	ppbv	92
15) Acetone	3.86	43	229181	1.447	ppbv #	74
16) 1,3-Butadiene	3.36	39	50397	0.496	ppbv #	14
19) Isopropyl Alcohol	3.97	45	1793498	19.765	ppbv #	97
20) Methylene Chloride	4.36	84	45147	0.569	ppbv	96
25) Ethyl Acetate	5.69	43	34781	0.087	ppbv #	43
26) Hexane	5.70	57	82830	0.421	ppbv #	54
34) 2-Butanone	5.25	43	8272	0.043	ppbv #	54
39) 1,2-Dichloropropane	7.19	63	1093582	7.167	ppbv #	27
52) Tetrachloroethene	11.24	164	6374	0.039	ppbv #	51
53) Toluene	9.82	91	76002	0.168	ppbv	100

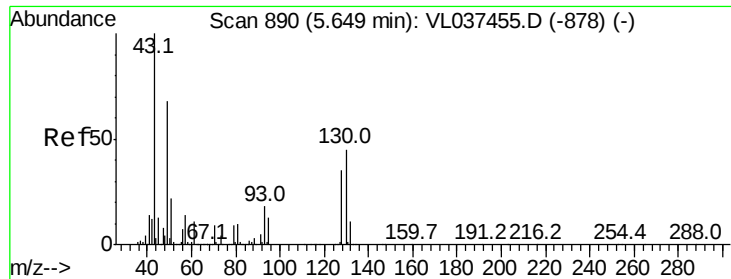
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037579.D

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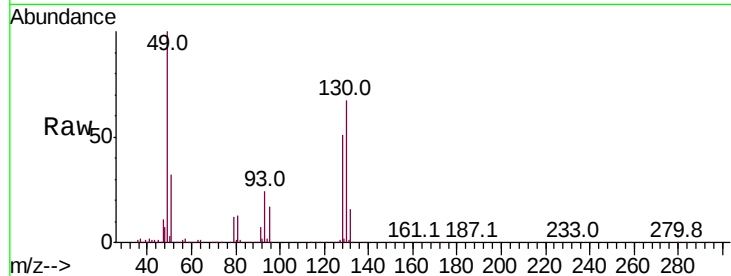
Tot Ion: 49 Resp: 1556305

Ion Ratio Lower Upper

49 100

128 56.0 27.5 82.4

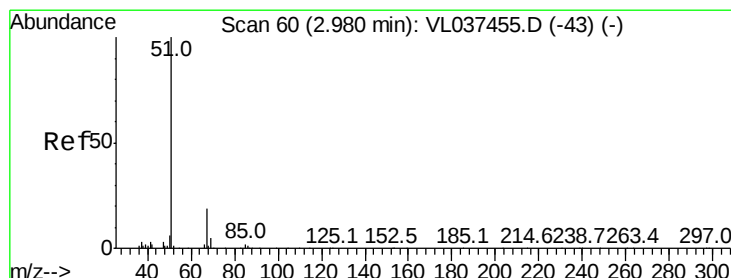
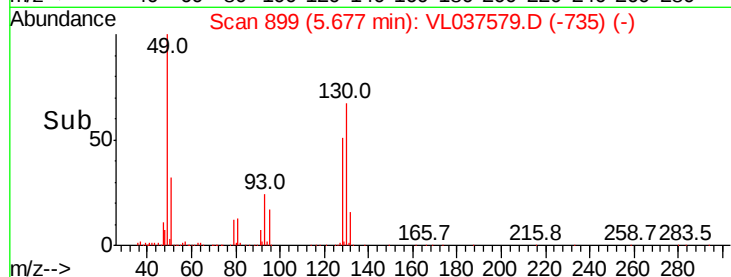
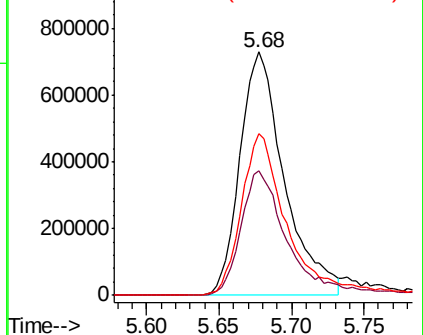
130 69.7 34.0 101.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 2.472 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL037579.D

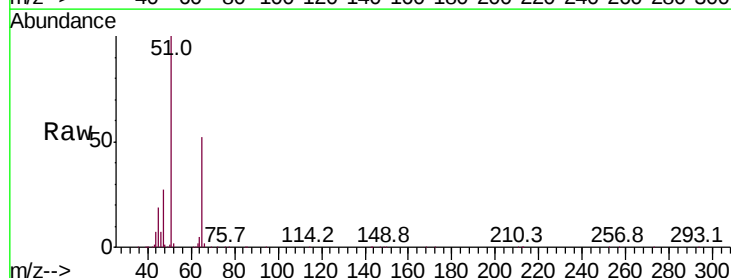
Acq: 8 Sep 2021 19:48

Tgt Ion: 51 Resp: 736790

Ion Ratio Lower Upper

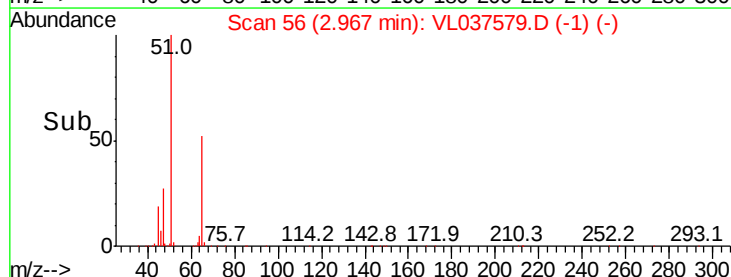
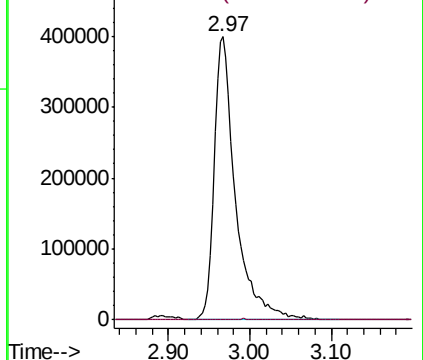
51 100

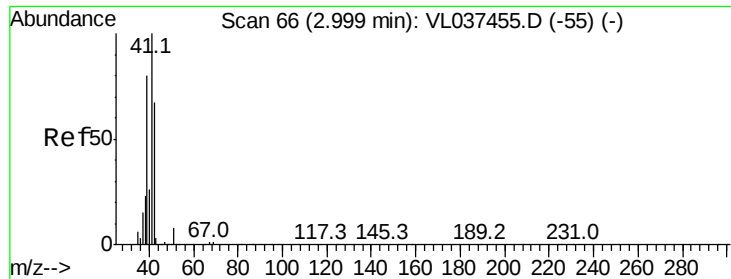
67 0.0 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.599 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

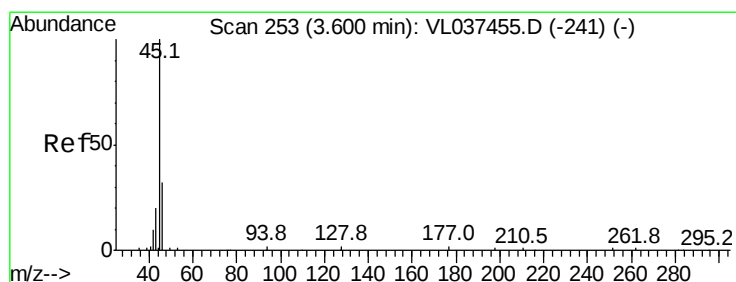
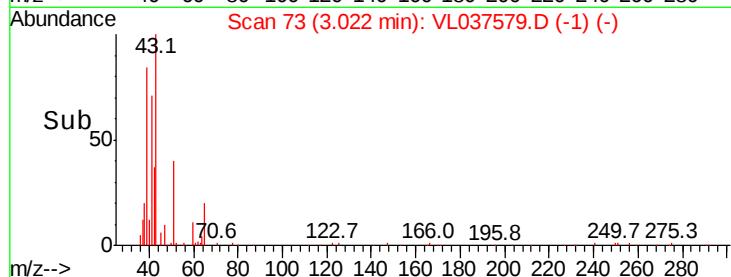
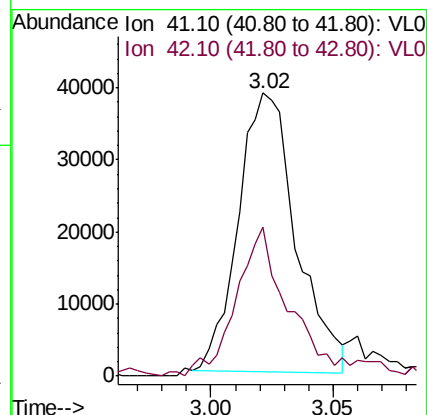
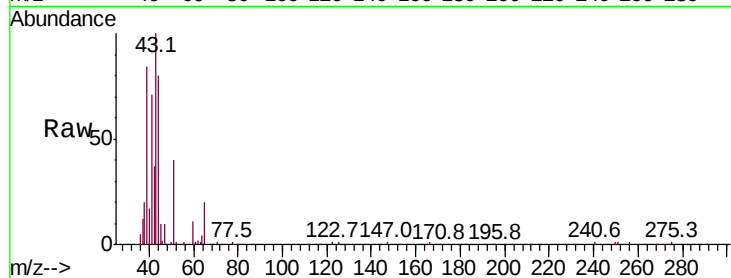
IA-1DL

Tot Ion: 41 Resp: 63899

Ion Ratio Lower Upper

41 100

42 54.0 53.7 80.5



#13

Ethanol

Concen: 75.626 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL037579.D

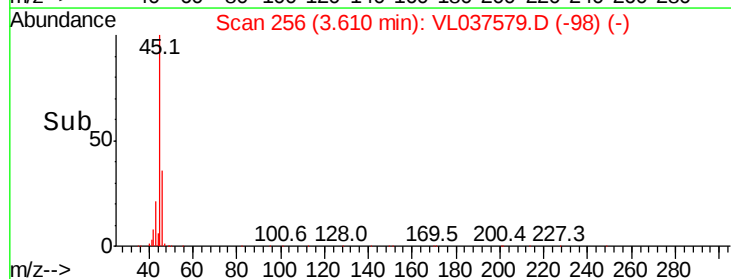
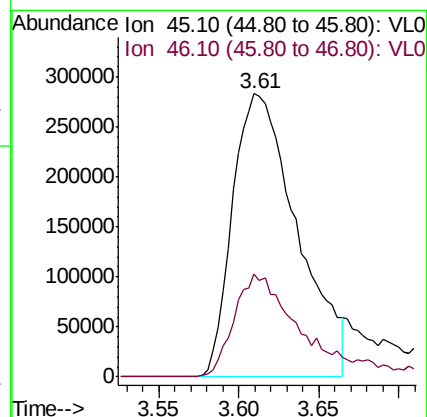
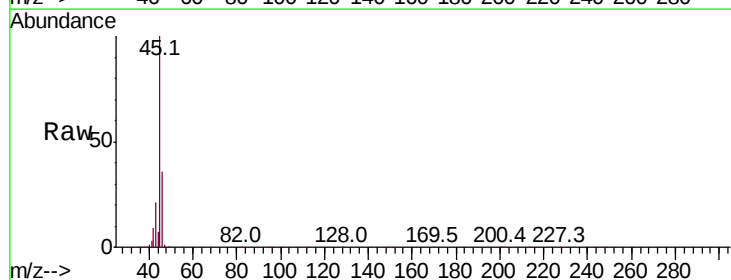
Acq: 8 Sep 2021 19:48

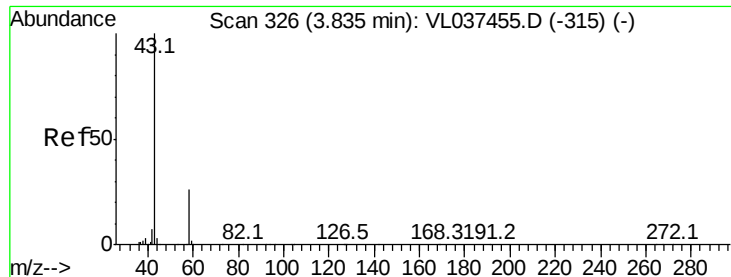
Tgt Ion: 45 Resp: 784688

Ion Ratio Lower Upper

45 100

46 39.7 14.1 56.5





#15

Acetone

Concen: 1.447 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.03 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

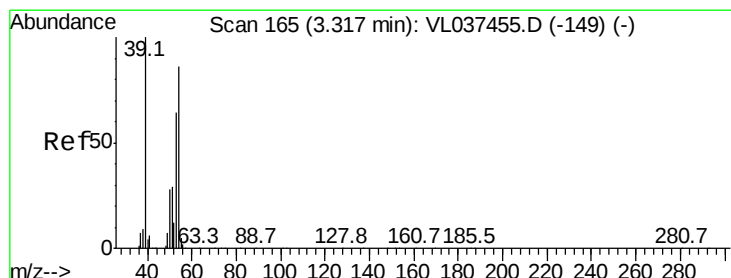
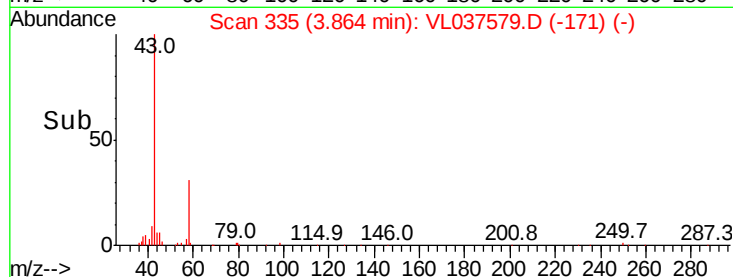
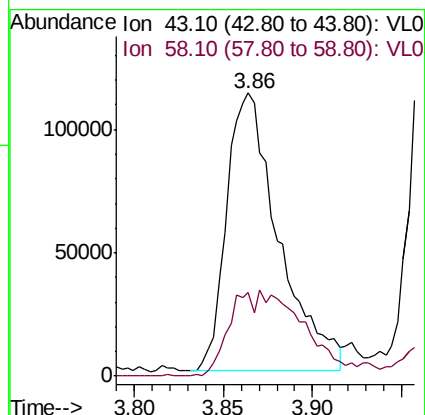
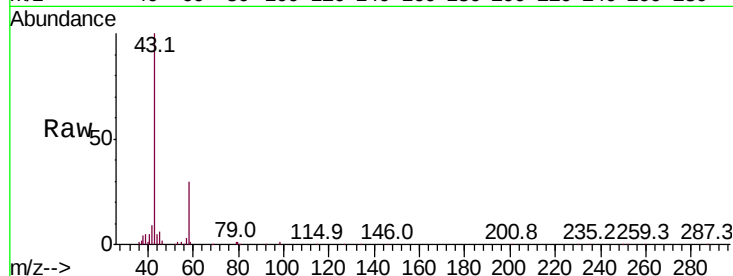
IA-1DL

Tot Ion: 43 Resp: 229181

Ion Ratio Lower Upper

43 100

58 45.3 24.8 37.2#



#16

1,3-Butadiene

Concen: 0.496 ppbv

RT: 3.36 min Scan# 179

Delta R.T. 0.04 min

Lab File: VL037579.D

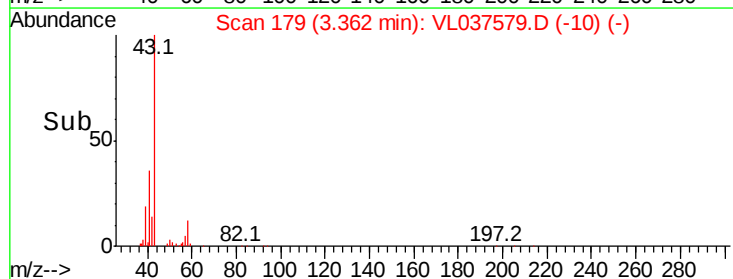
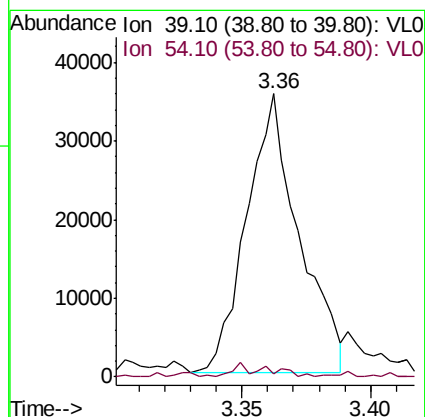
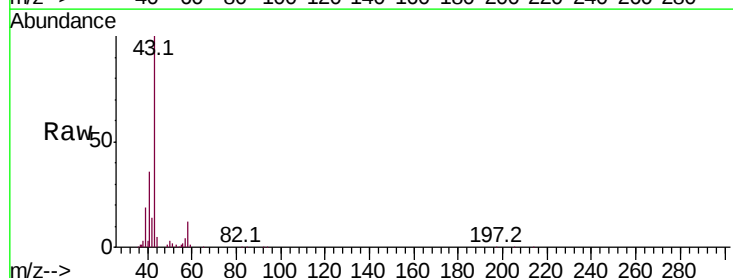
Acq: 8 Sep 2021 19:48

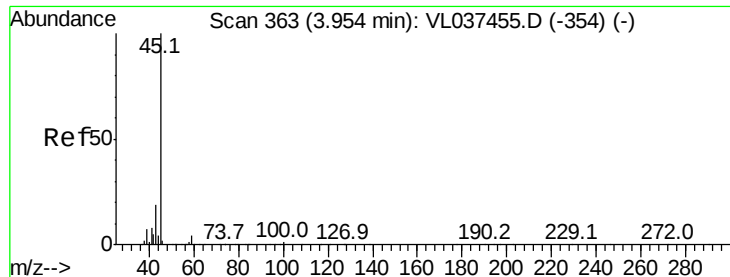
Tgt Ion: 39 Resp: 50397

Ion Ratio Lower Upper

39 100

54 3.7 63.7 95.5#



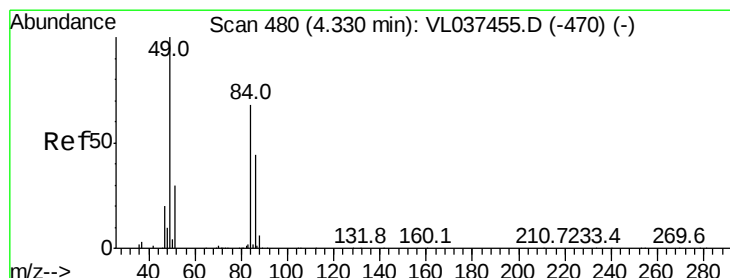
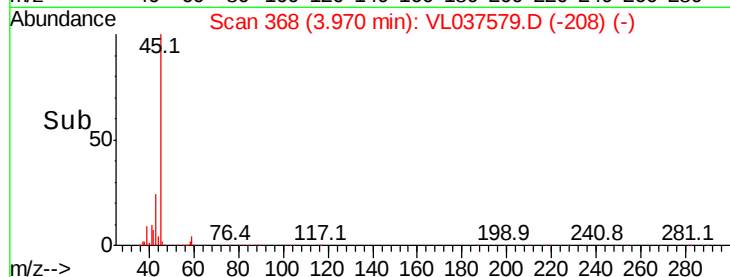
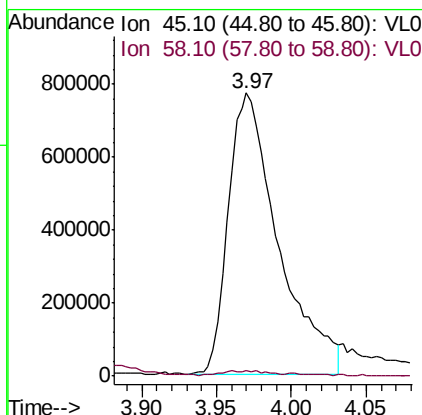
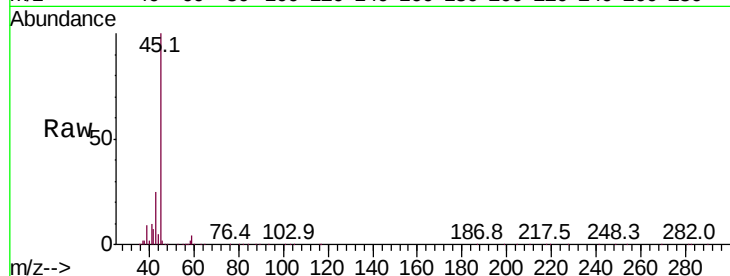


#19

Isopropyl Alcohol
 Concen: 19.765 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VL037579.D
 Acq: 8 Sep 2021 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

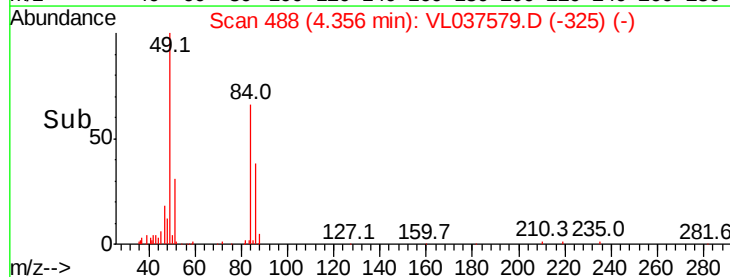
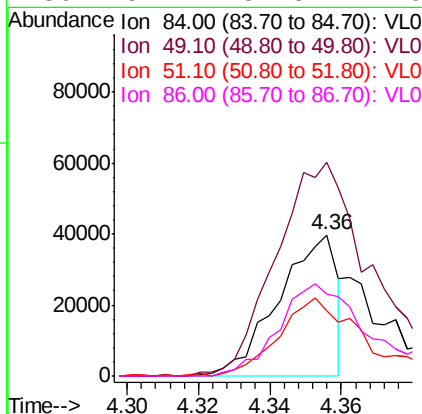
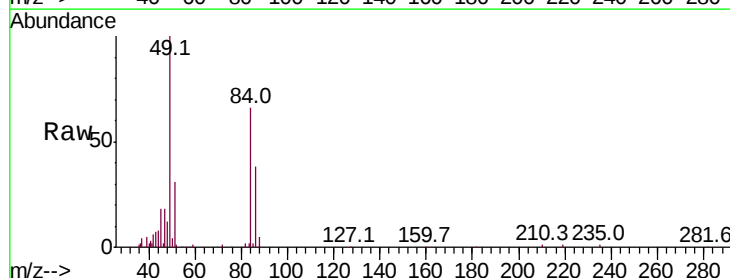
Tot Ion: 45 Resp: 1793498
 Ion Ratio Lower Upper
 45 100
 58 2.8 1.4 2.2#

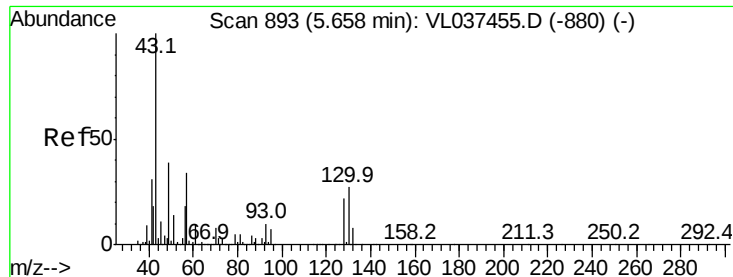


#20

Methylene Chloride
 Concen: 0.569 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.03 min
 Lab File: VL037579.D
 Acq: 8 Sep 2021 19:48

Tgt Ion: 84 Resp: 45147
 Ion Ratio Lower Upper
 84 100
 49 151.1 118.2 177.2
 51 45.4 36.6 55.0
 86 57.7 51.8 77.6

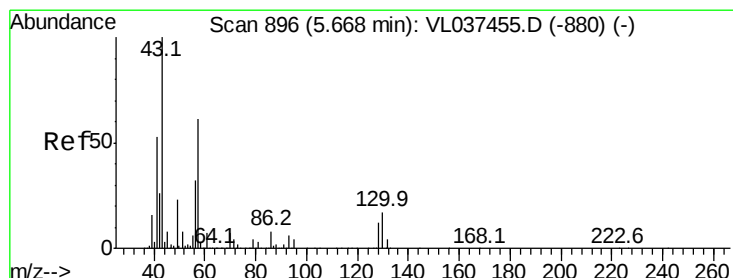
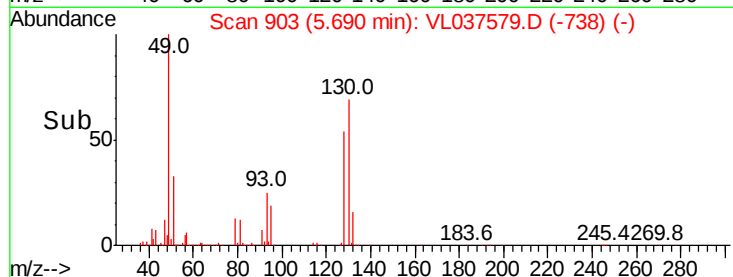
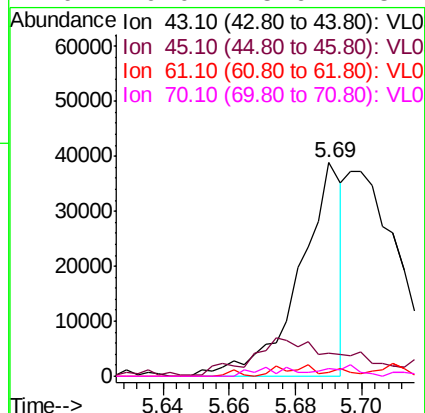
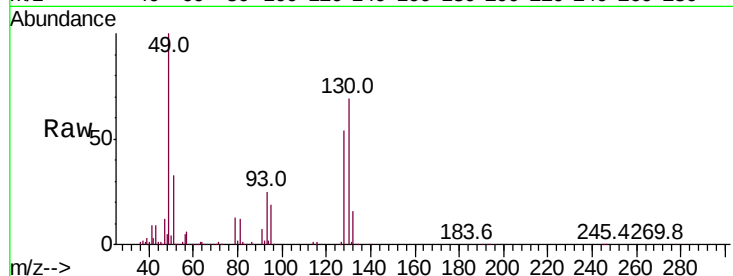




#25
Ethyl Acetate
Concen: 0.087 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.03 min
Lab File: VL037579.D
Acq: 8 Sep 2021 19:48

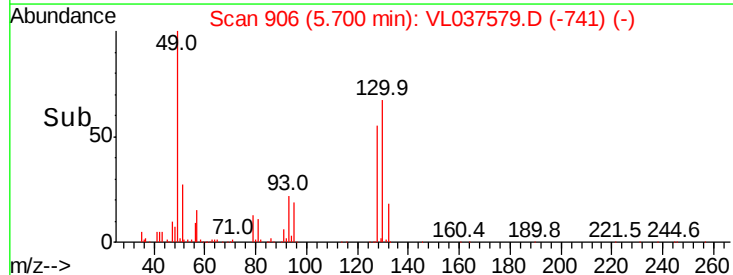
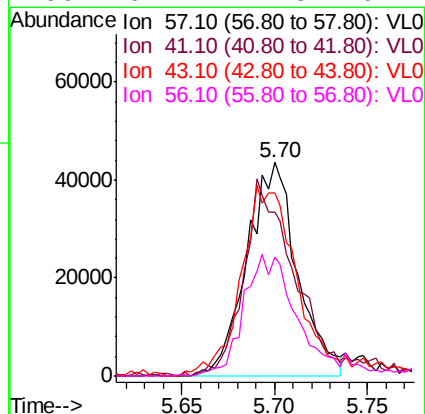
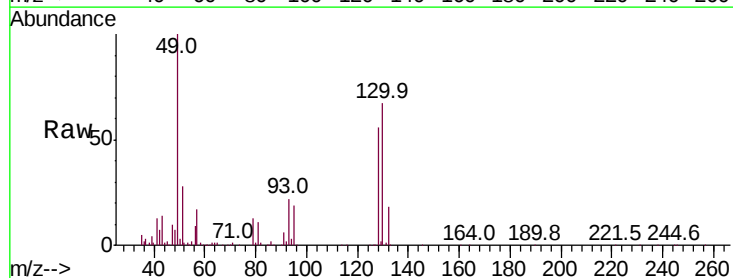
Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

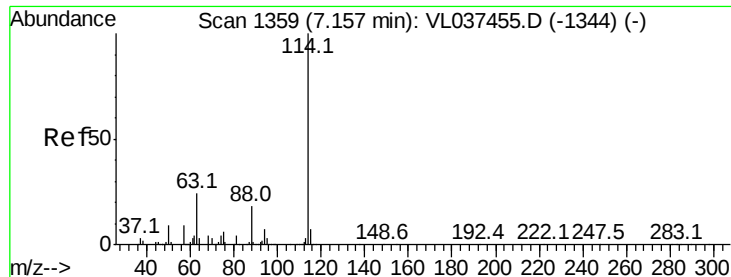
Tot Ion:	43	Resp:	34781
Ion	Ratio	Lower	Upper
43	100		
45	52.1	8.0	12.0#
61	0.0	8.0	12.0#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 0.421 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.03 min
Lab File: VL037579.D
Acq: 8 Sep 2021 19:48

Tgt Ion:	57	Resp:	82830
Ion	Ratio	Lower	Upper
57	100		
41	100.5	72.3	108.5
43	105.4	172.3	258.5#
56	64.1	42.8	64.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.03 min

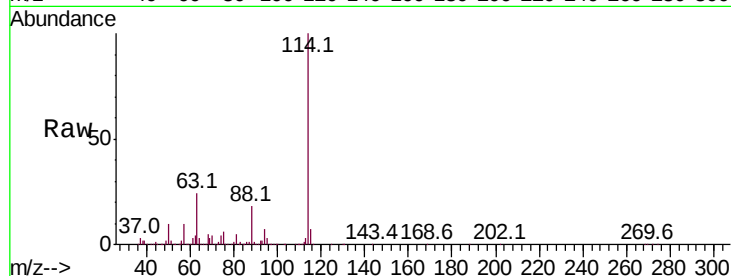
Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

Instrument :
MSVOA_L
ClientSampleID :
IA-1DL

Tot Ion:114 Resp: 4723631

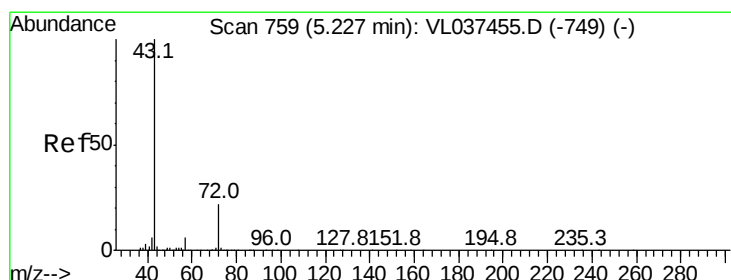
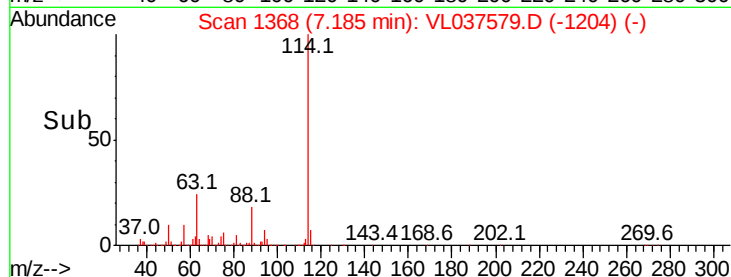
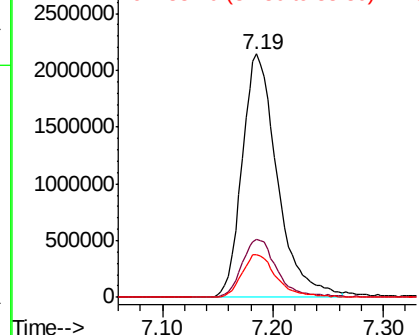
Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.3	28.9
88	17.7	14.2	21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.043 ppbv

RT: 5.25 min Scan# 767

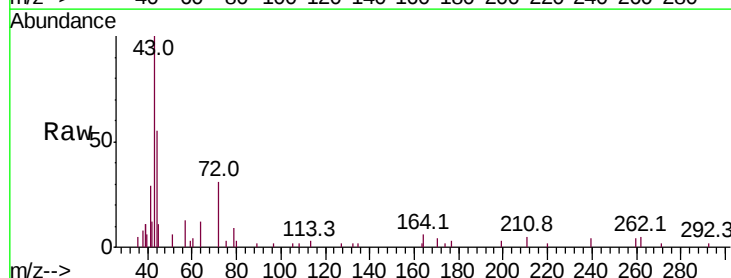
Delta R.T. 0.03 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

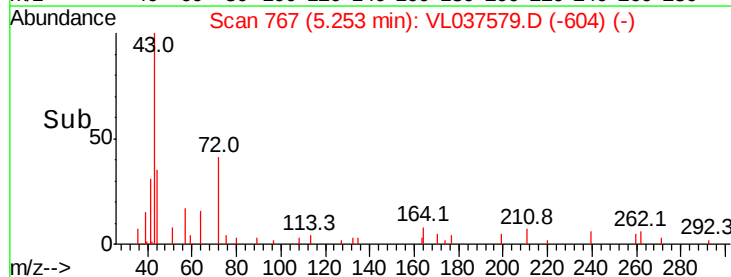
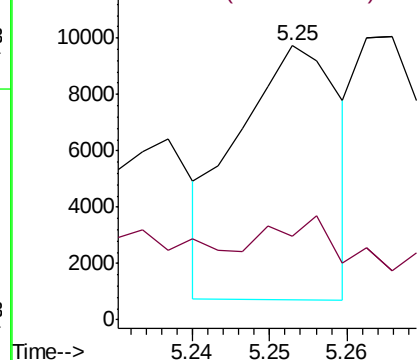
Tgt Ion: 43 Resp: 8272

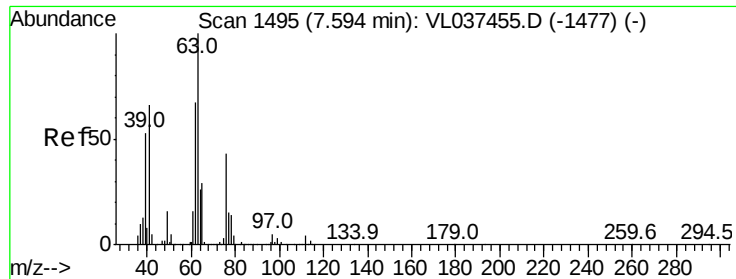
Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.167 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.41 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

Instrument :

MSVOA_L

ClientSampled :

IA-1DL

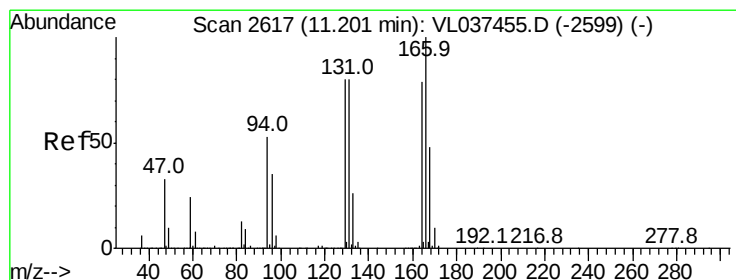
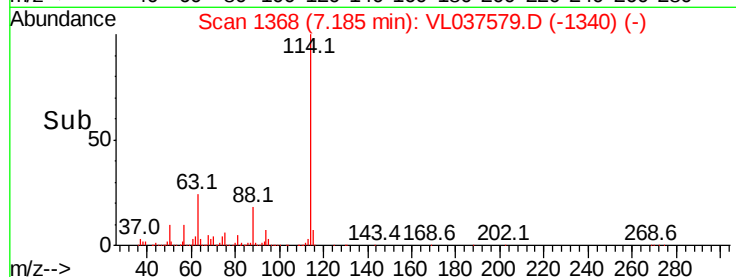
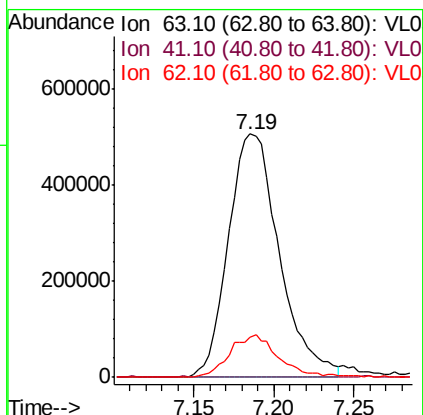
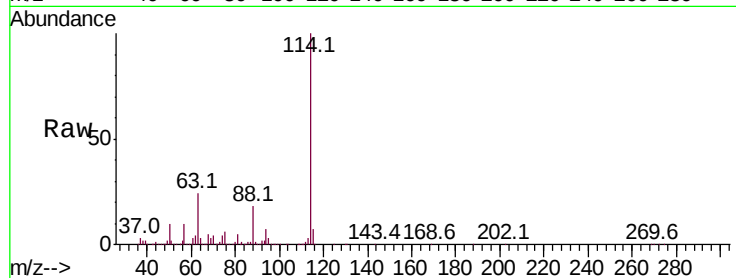
Tot Ion: 63 Resp: 1093582

Ion Ratio Lower Upper

63 100

41 0.0 52.4 78.6#

62 16.6 53.6 80.4#



#52

Tetrachloroethene

Concen: 0.039 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. 0.04 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

Tgt Ion: 164 Resp: 6374

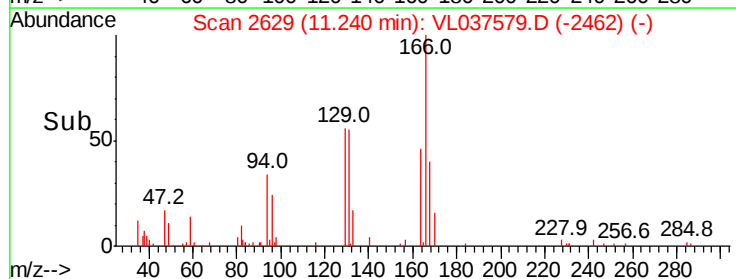
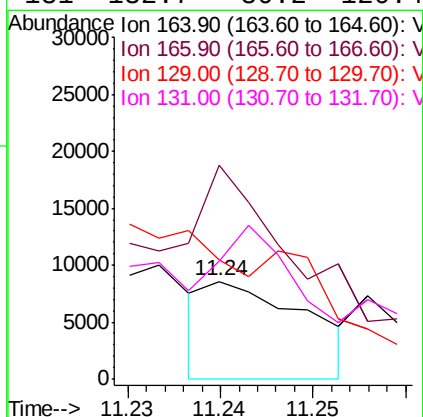
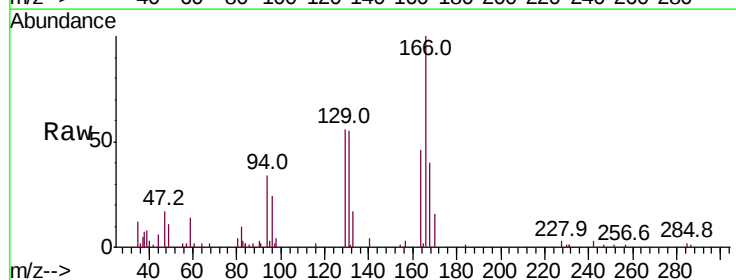
Ion Ratio Lower Upper

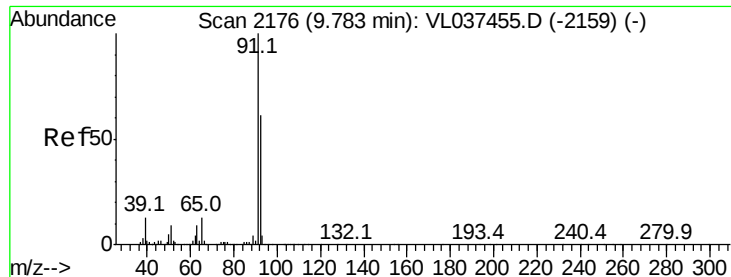
164 100

166 215.8 100.7 151.1#

129 128.5 80.9 121.3#

131 132.7 80.2 120.4#





#53

Toluene

Concen: 0.168 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

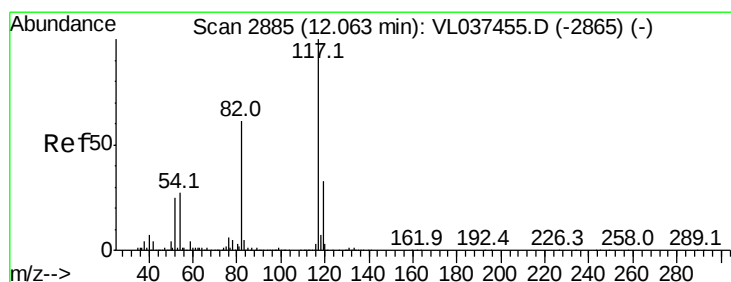
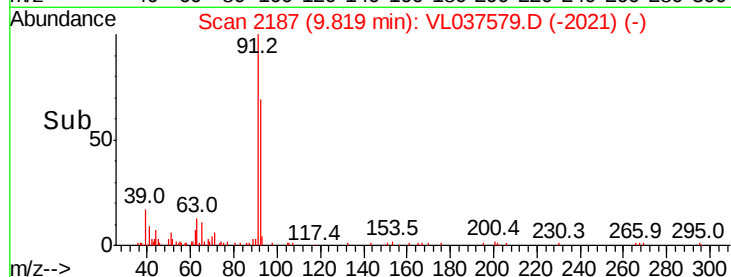
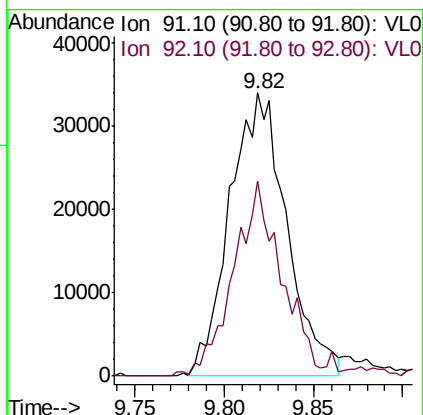
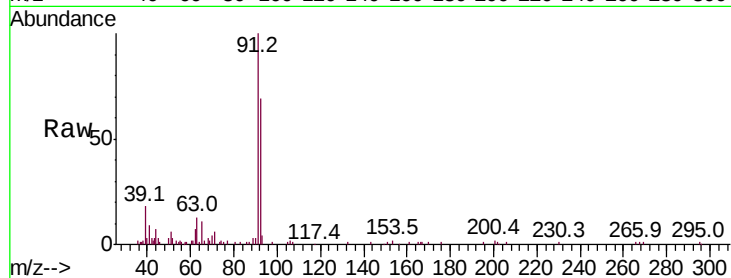
IA-1DL

Tot Ion: 91 Resp: 76002

Ion Ratio Lower Upper

91 100

92 61.0 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.04 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

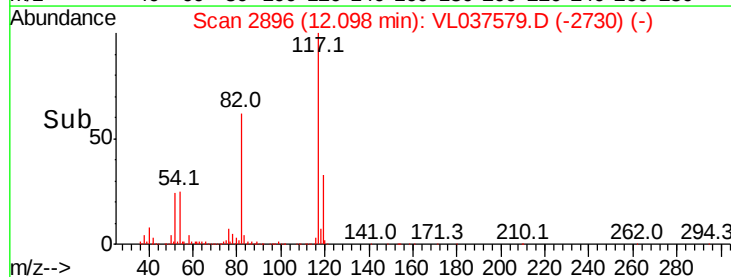
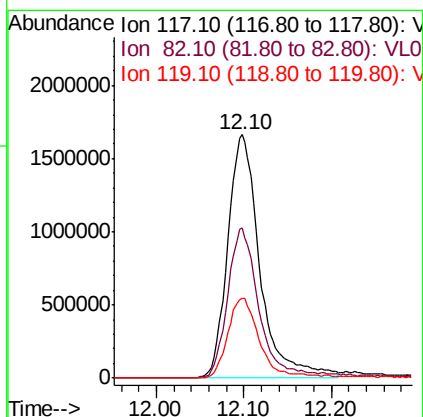
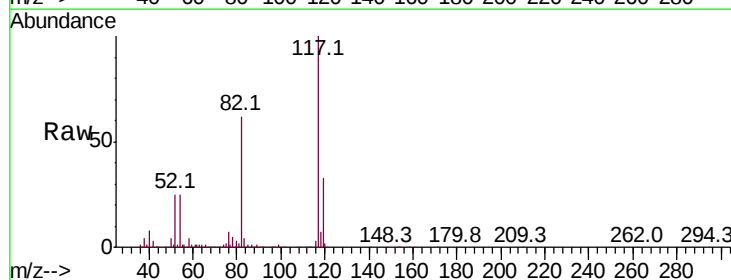
Tgt Ion: 117 Resp: 4265056

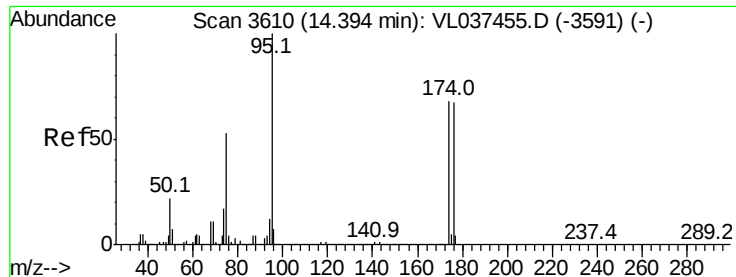
Ion Ratio Lower Upper

117 100

82 62.4 52.9 79.3

119 33.4 24.8 37.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.735 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.03 min

Lab File: VL037579.D

Acq: 8 Sep 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

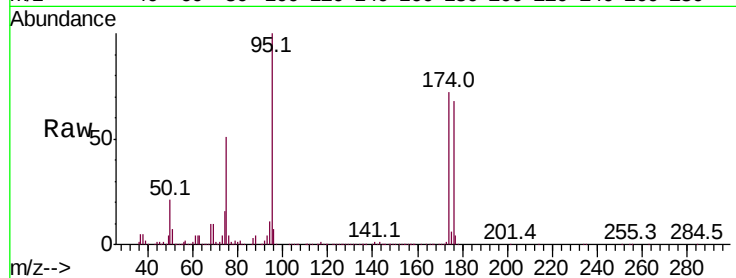
Tot Ion: 95 Resp: 2949867

Ion Ratio Lower Upper

95 100

174 75.6 59.6 89.4

175 5.7 4.6 7.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

1500000 Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

