

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052021\
 Data File : VL037039.D
 Acq On : 21 May 2021 00:49
 Operator : SY/AP
 Sample : M2424-08DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Quant Time: May 21 03:38:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1122820	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.14	114	3279823	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.04	117	2957896	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	2099049	9.45	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

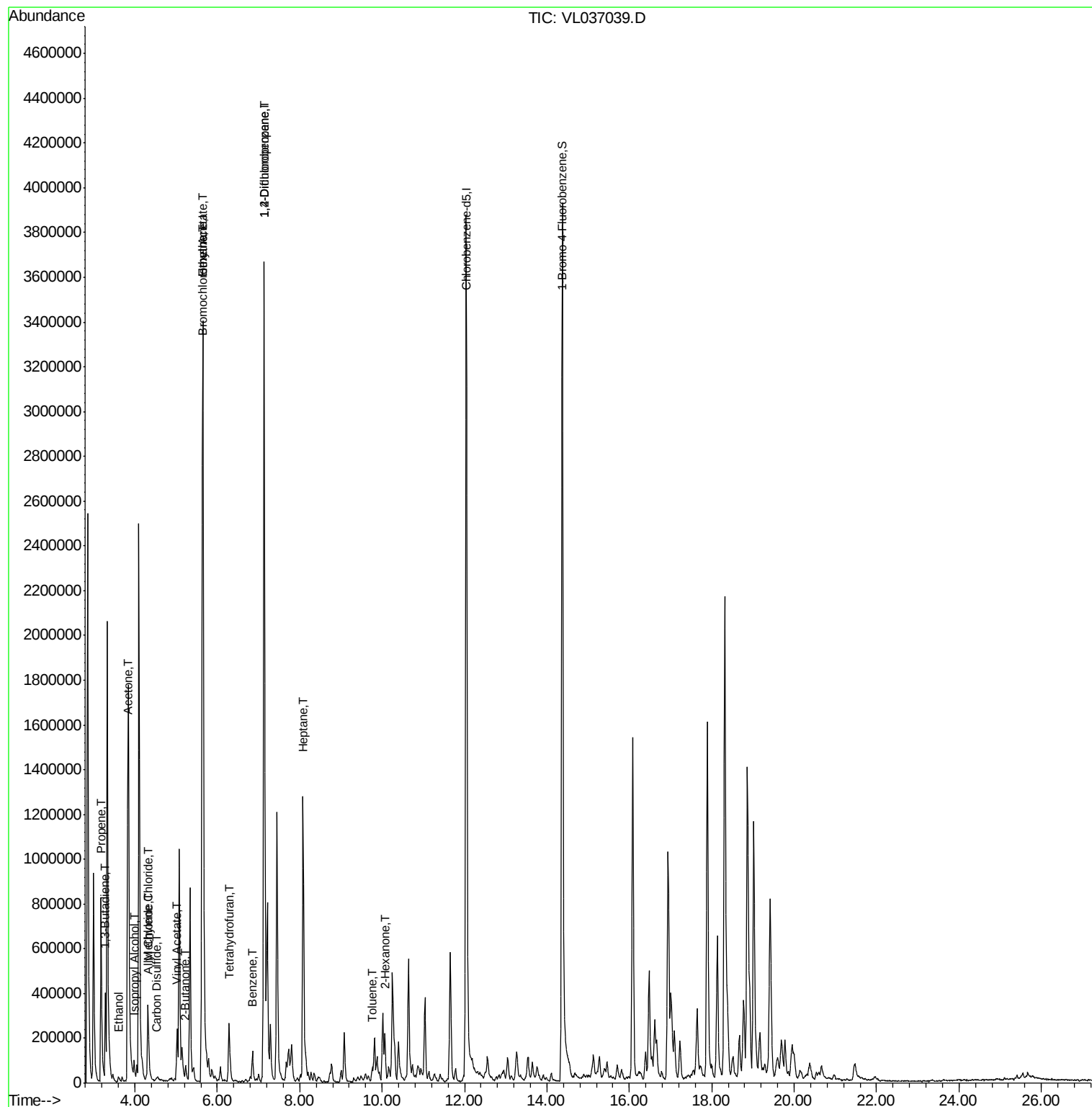
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.18	41	269376	3.657	ppbv	92
10) Heptane	8.08	43	626326	3.412	ppbv	99
13) Ethanol	3.60	45	13217	1.345	ppbv #	35
15) Acetone	3.82	43	2271683	19.753	ppbv #	88
16) 1,3-Butadiene	3.28	39	110776	1.550	ppbv #	17
19) Isopropyl Alcohol	3.97	45	12685	0.205	ppbv #	30
20) Methylene Chloride	4.31	84	134203	2.177	ppbv	99
21) Allyl Chloride	4.33	41	13196	0.152	ppbv #	1
23) Vinyl Acetate	5.02	43	81317	0.445	ppbv #	1
25) Ethyl Acetate	5.65	43	833401	3.016	ppbv #	78
26) Hexane	5.65	57	1174139	8.317	ppbv #	46
27) Carbon Disulfide	4.52	76	10054	0.071	ppbv #	64
34) 2-Butanone	5.22	43	42359	0.355	ppbv #	22
36) Benzene	6.85	78	118674	0.420	ppbv #	93
39) 1,2-Dichloropropane	7.13	63	778635	7.155	ppbv #	25
41) Tetrahydrofuran	6.27	42	13453	0.198	ppbv #	37
51) 2-Hexanone	10.07	43	111774	1.073	ppbv #	27
53) Toluene	9.75	91	15173	0.045	ppbv #	19

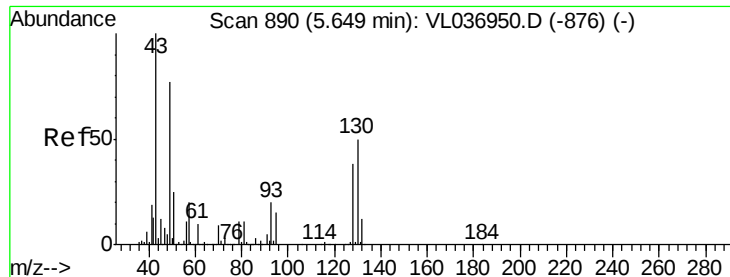
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 884

Delta R.T. -0.02 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Instrument :

MSVOA_L

ClientSampleId :

BFB

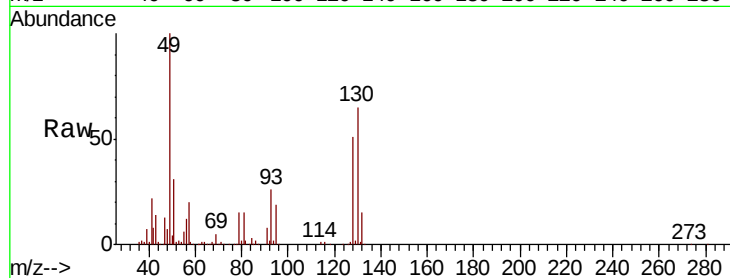
Tot Ion: 49 Resp: 1122820

Ion Ratio Lower Upper

49 100

128 54.5 26.9 80.7

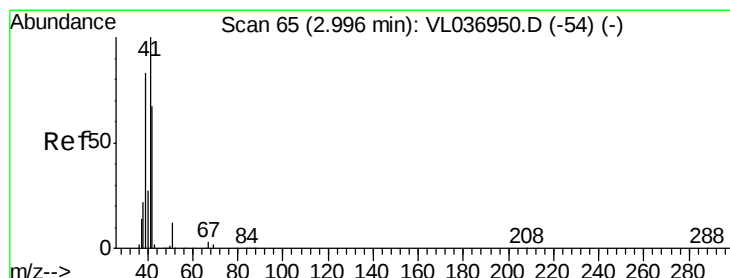
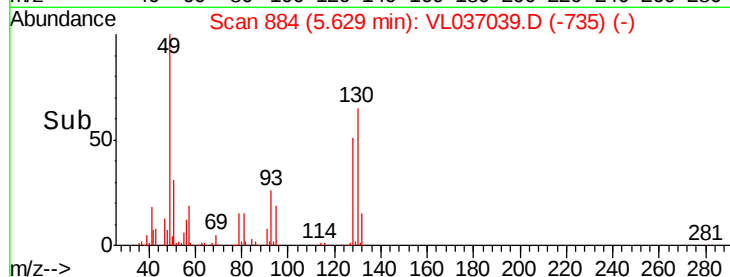
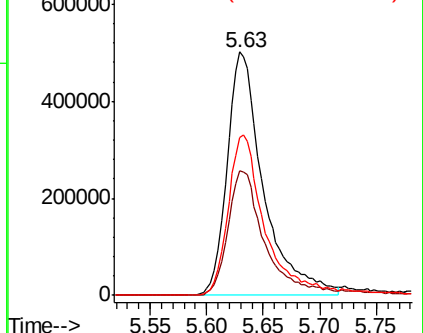
130 69.9 33.8 101.4



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



#9

Propene

Concen: 3.657 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.18 min

Lab File: VL037039.D

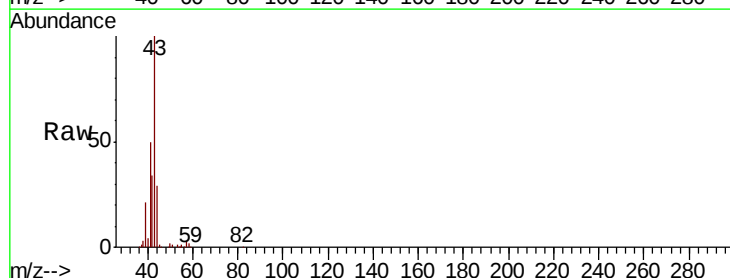
Acq: 21 May 2021 00:49

Tgt Ion: 41 Resp: 269376

Ion Ratio Lower Upper

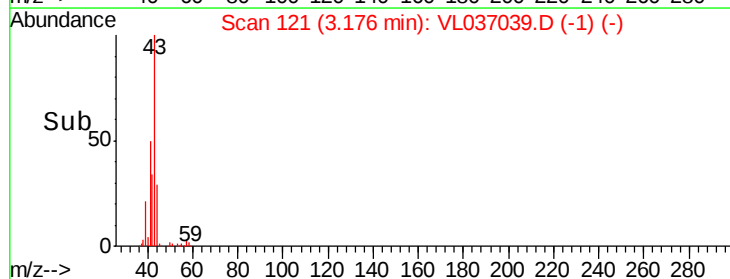
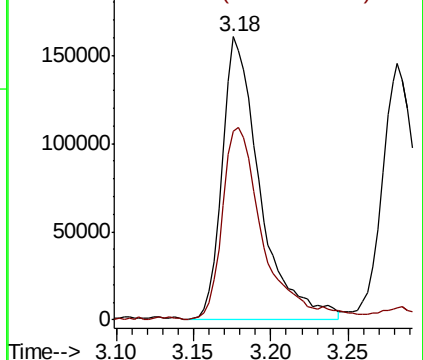
41 100

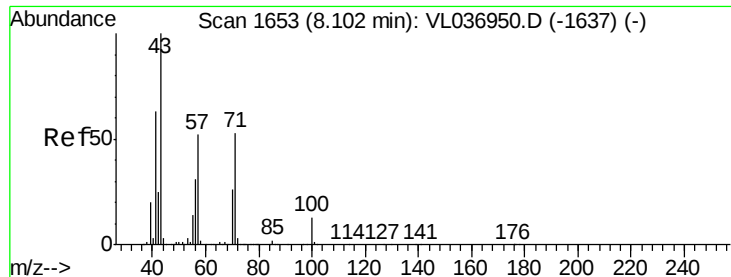
42 74.2 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

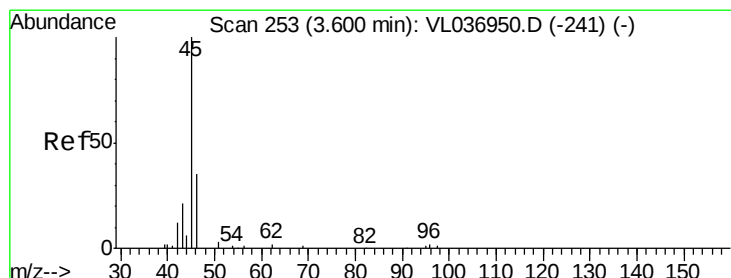
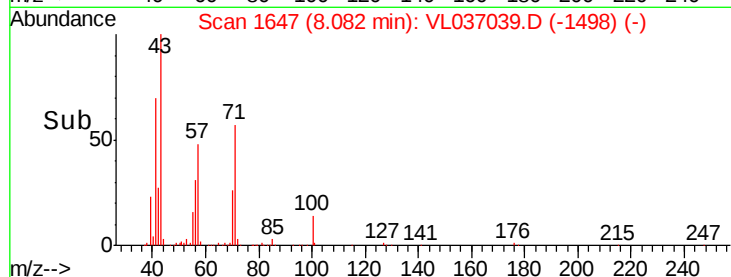
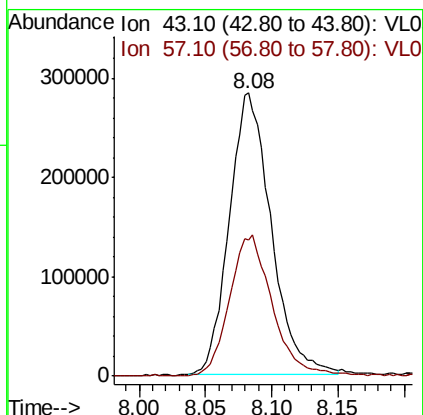
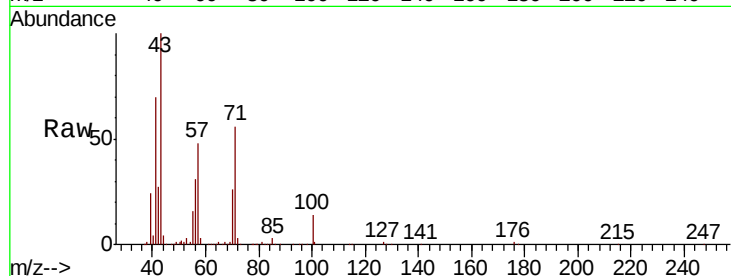




#10
Heptane
Concen: 3.412 ppbv
RT: 8.08 min Scan# 1647
Delta R.T. -0.02 min
Lab File: VL037039.D
Acq: 21 May 2021 00:49

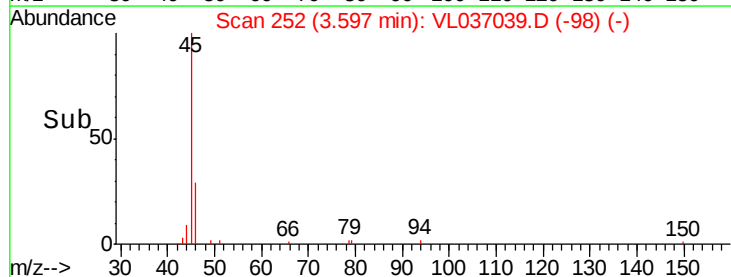
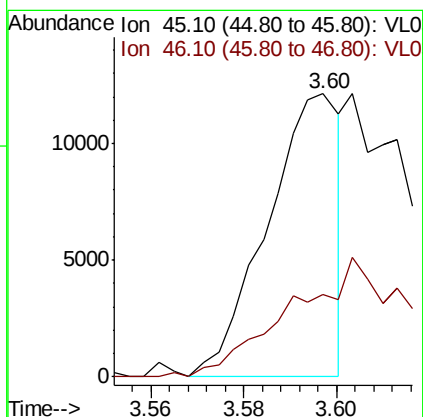
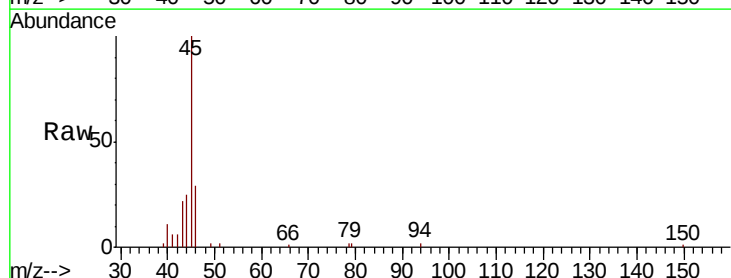
Instrument :
MSVOA_L
ClientSampleId :
BFB

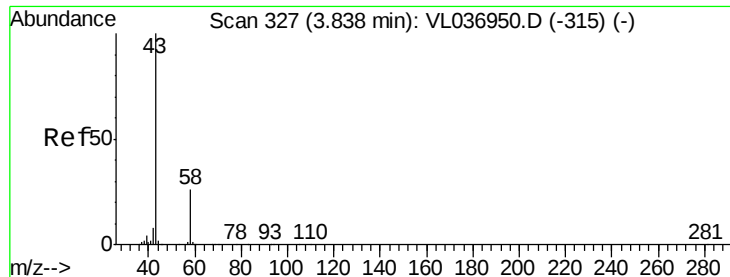
Tot Ion: 43 Resp: 626326
Ion Ratio Lower Upper
43 100
57 52.2 41.0 61.6



#13
Ethanol
Concen: 1.345 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL037039.D
Acq: 21 May 2021 00:49

Tgt Ion: 45 Resp: 13217
Ion Ratio Lower Upper
45 100
46 0.0 16.3 65.3#





#15

Acetone

Concen: 19.753 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.02 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Instrument :

MSVOA_L

ClientSampled :

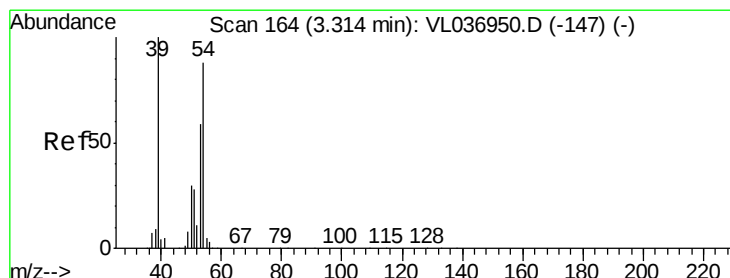
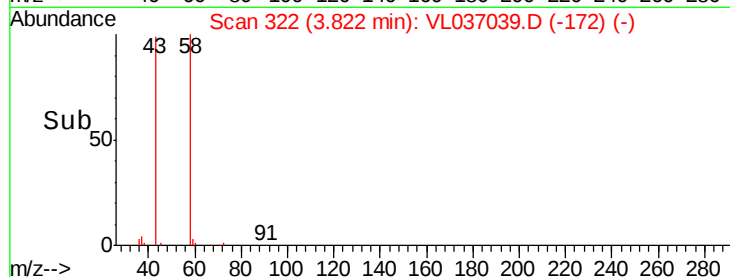
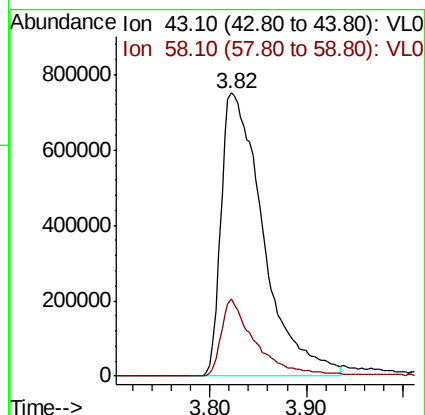
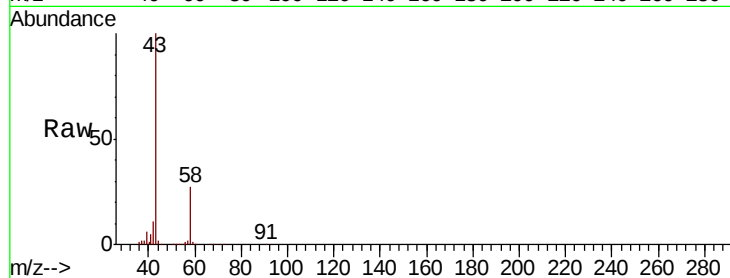
BFB

Tot Ion: 43 Resp: 2271683

Ion Ratio Lower Upper

43 100

58 23.2 24.0 36.0#



#16

1,3-Butadiene

Concen: 1.550 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.03 min

Lab File: VL037039.D

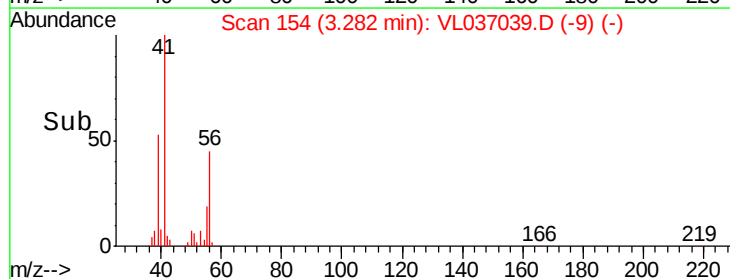
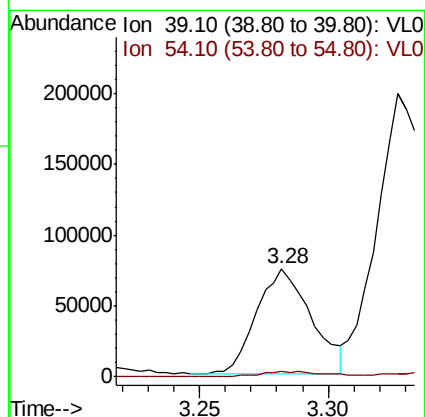
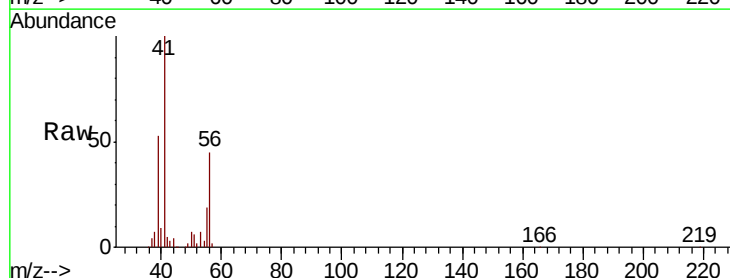
Acq: 21 May 2021 00:49

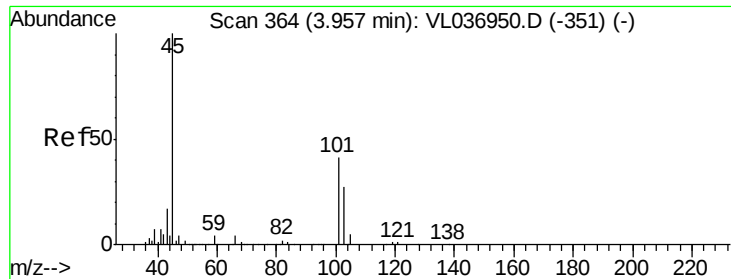
Tgt Ion: 39 Resp: 110776

Ion Ratio Lower Upper

39 100

54 6.0 63.2 94.8#





#19

Isopropyl Alcohol

Concen: 0.205 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Instrument :

MSVOA_L

ClientSampled :

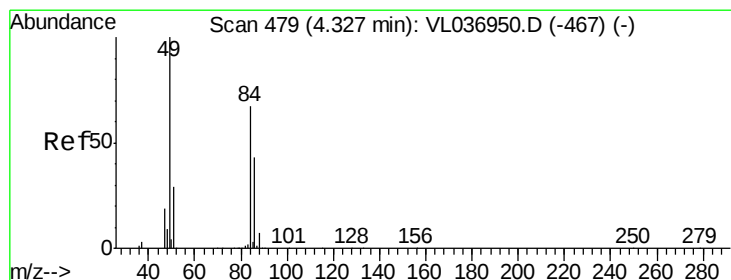
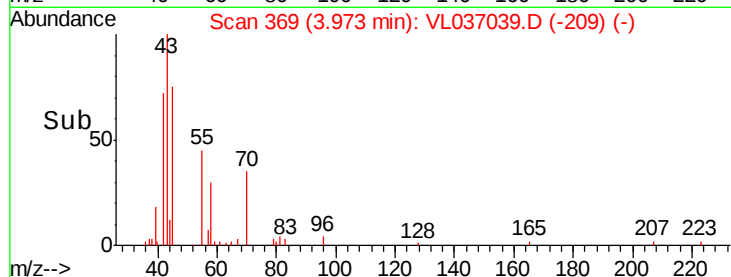
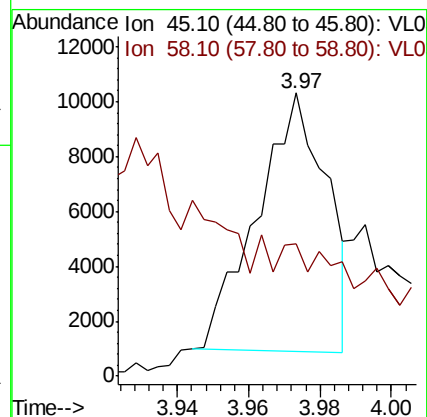
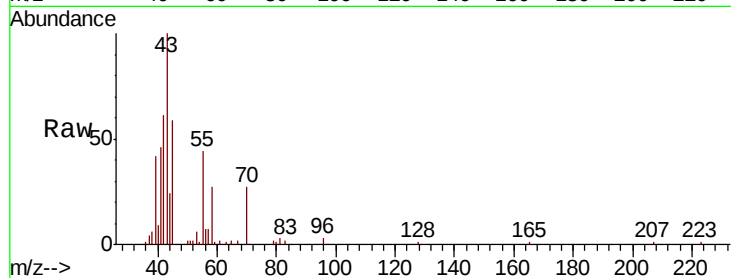
BFB

Tot Ion: 45 Resp: 12685

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 2.177 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.01 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Tgt Ion: 84 Resp: 134203

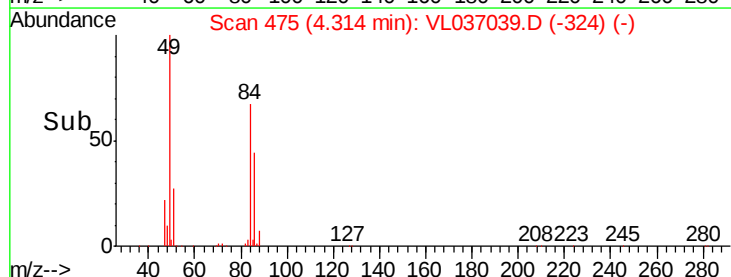
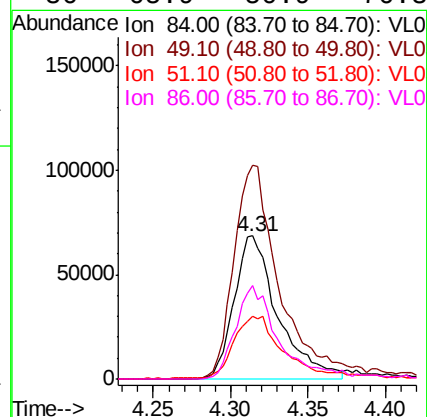
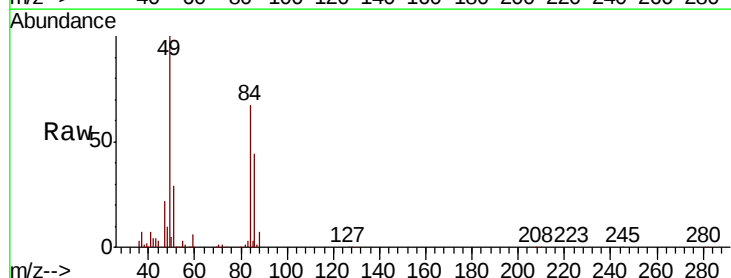
Ion Ratio Lower Upper

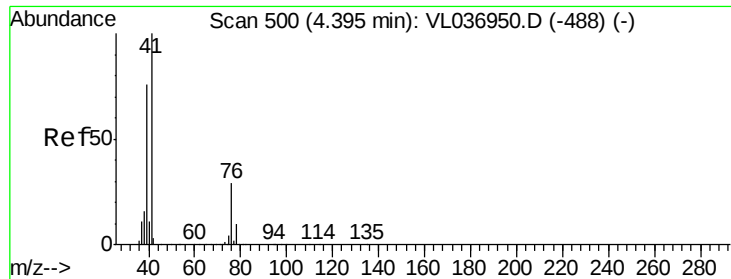
84 100

49 148.9 119.8 179.6

51 42.8 35.1 52.7

86 65.9 50.9 76.3





#21

Allvl Chloride

Concen: 0.152 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.06 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Instrument :

MSVOA_L

ClientSampled :

BFB

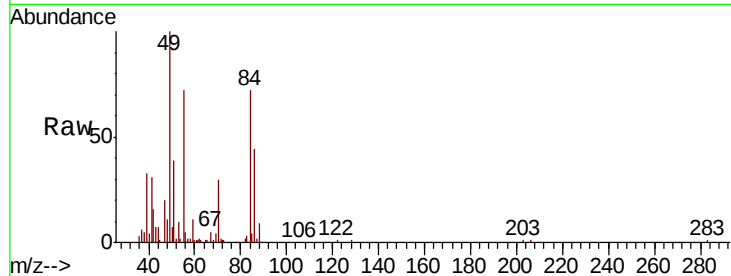
Tot Ion: 41 Resp: 13196

Ion Ratio Lower Upper

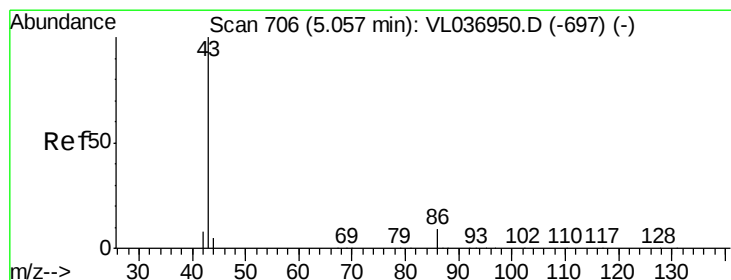
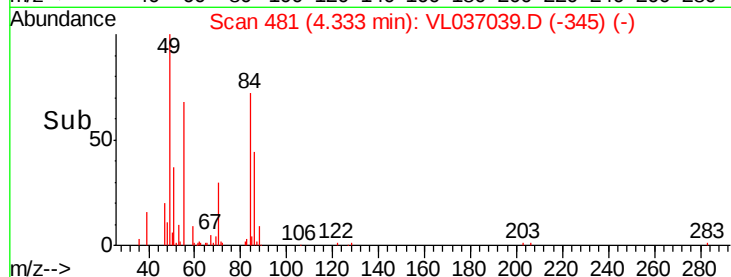
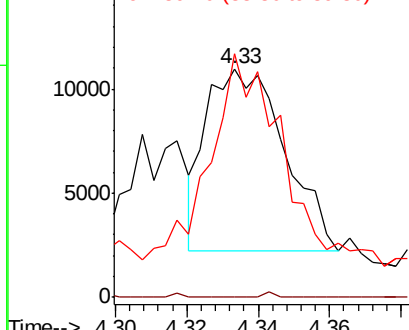
41 100

76 140.2 24.9 37.3#

39 202.5 63.7 95.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.445 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.03 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Tgt Ion: 43 Resp: 81317

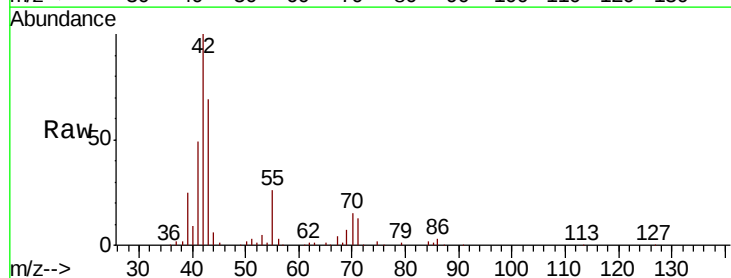
Ion Ratio Lower Upper

43 100

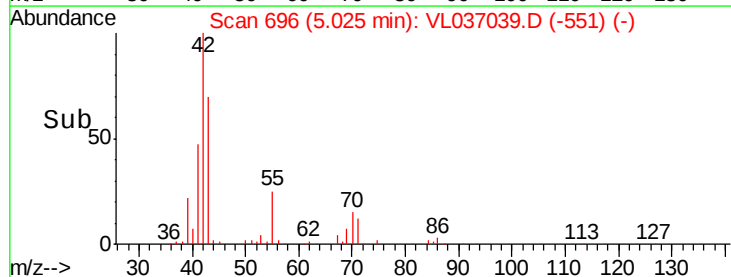
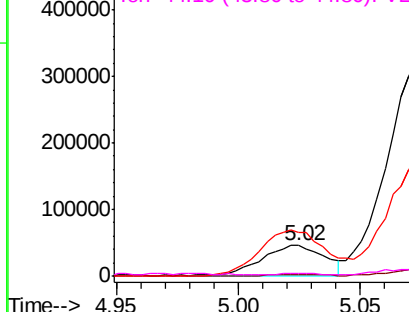
86 4.2 5.8 8.8#

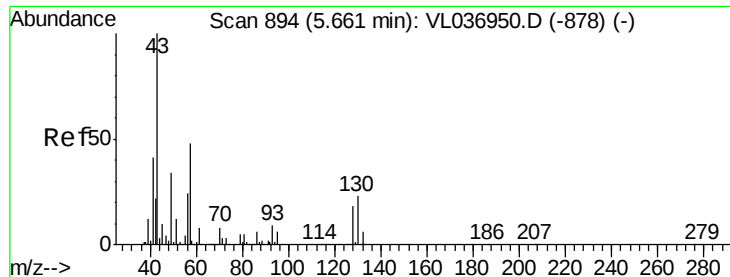
42 145.9 7.4 11.2#

44 1.8 3.3 4.9#



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: 3.016 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Instrument :
MSVOA_L
ClientSampleId :
BFB

Tot Ion: 43 Resp: 833401

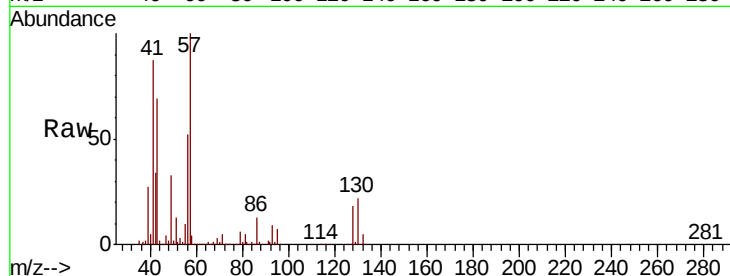
Ion Ratio Lower Upper

43 100

45 0.6 7.8 11.8#

61 0.5 7.8 11.8#

70 2.1 5.6 8.4#

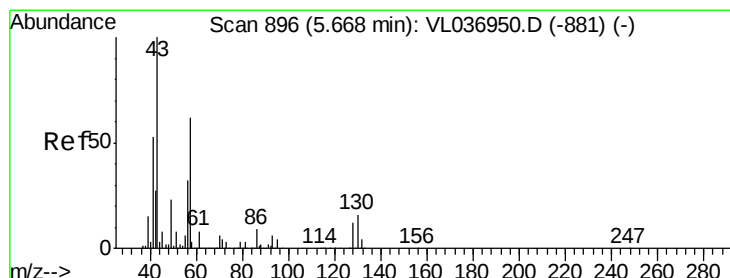
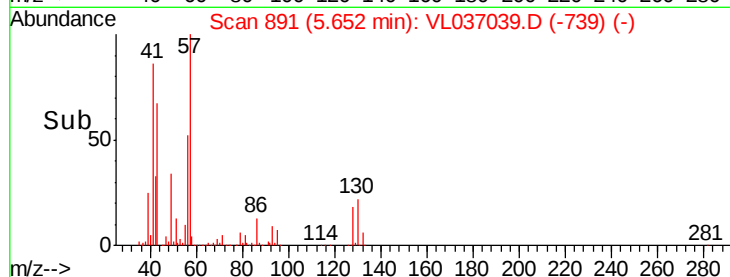
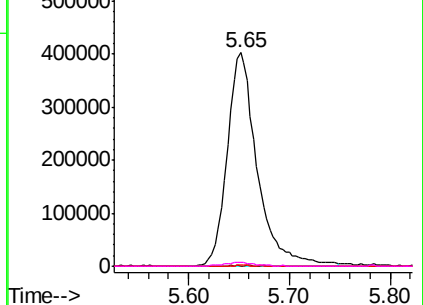


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.317 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Tgt Ion: 57 Resp: 1174139

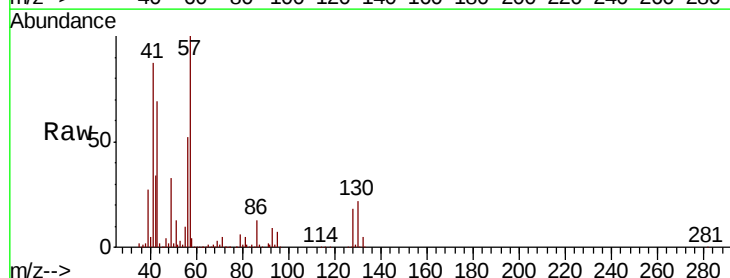
Ion Ratio Lower Upper

57 100

41 93.6 70.5 105.7

43 71.6 165.8 248.8#

56 54.1 42.2 63.4

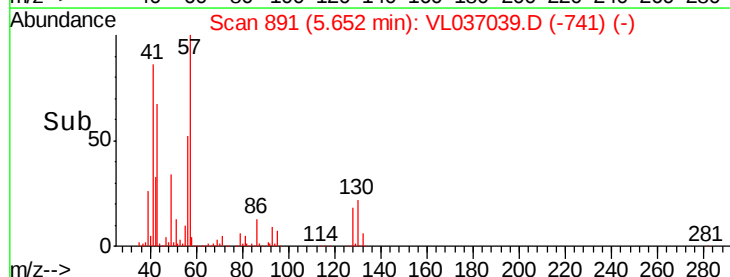
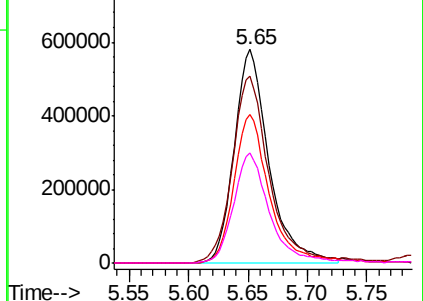


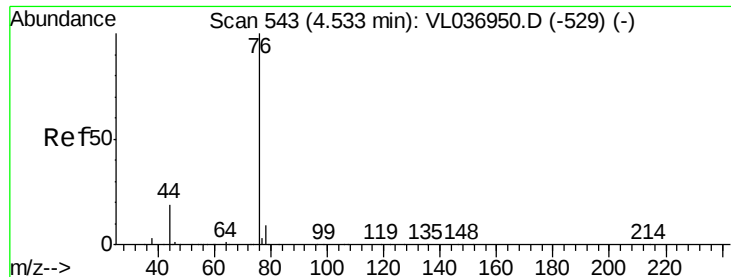
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.071 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.01 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

Instrument :

MSVOA_L

ClientSampleId :

BFB

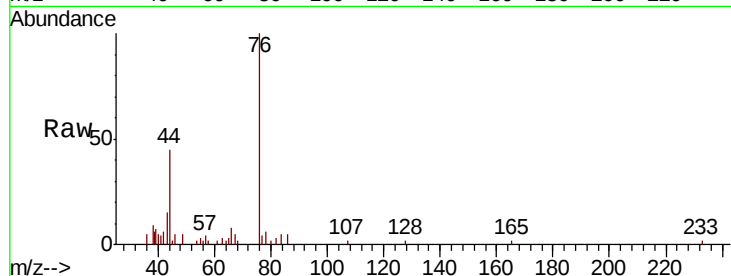
Tot Ion: 76 Resp: 10054

Ion Ratio Lower Upper

76 100

44 0.0 15.5 23.3#

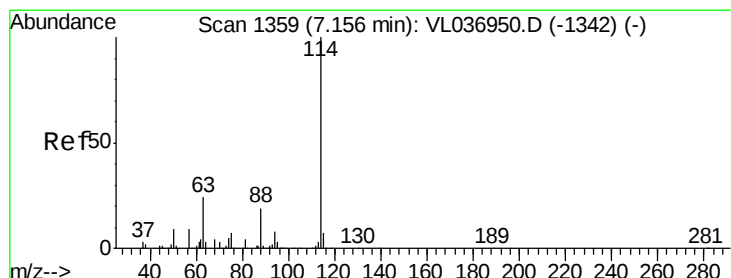
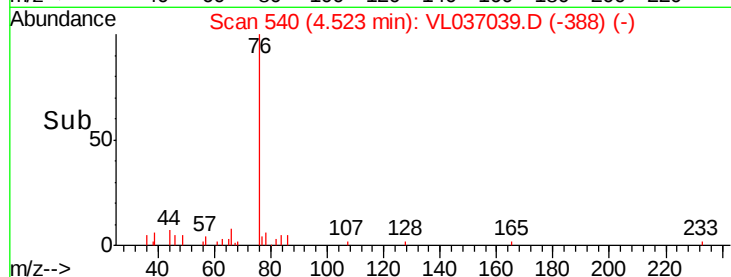
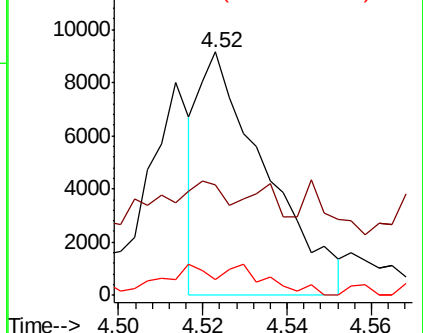
78 18.4 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. -0.02 min

Lab File: VL037039.D

Acq: 21 May 2021 00:49

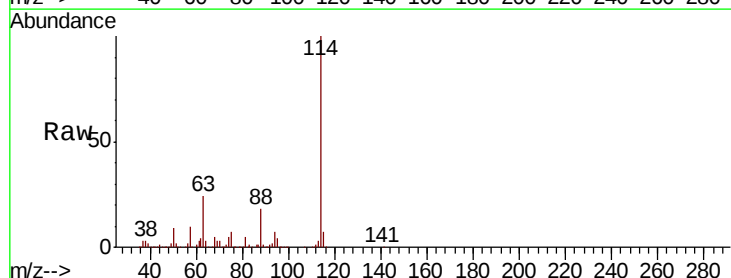
Tgt Ion: 114 Resp: 3279823

Ion Ratio Lower Upper

114 100

63 24.3 19.6 29.4

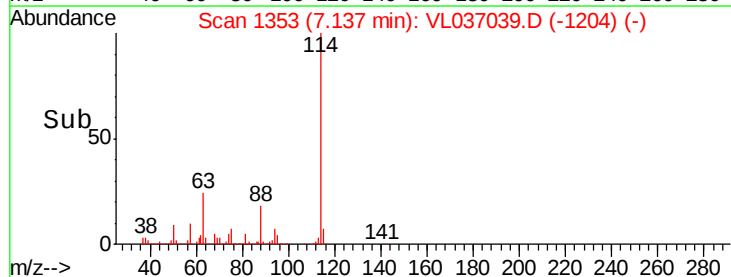
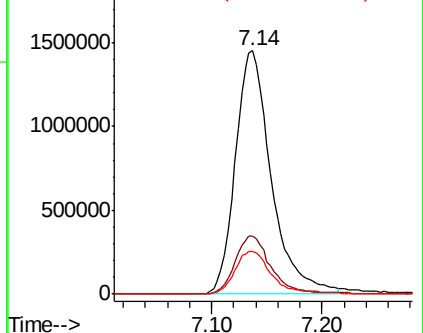
88 18.4 14.6 21.8

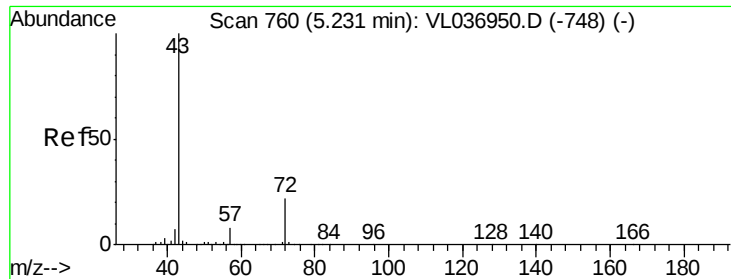


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

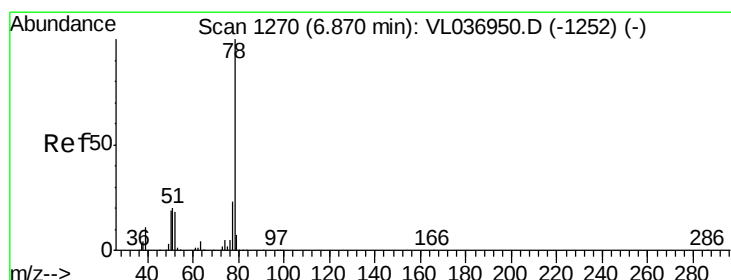
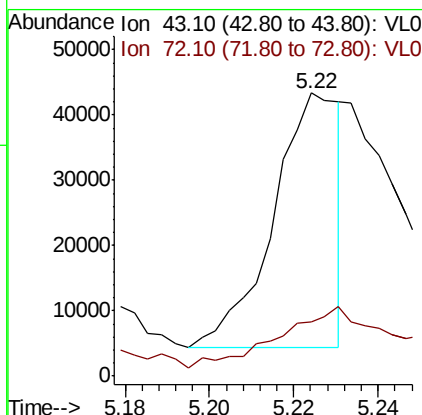
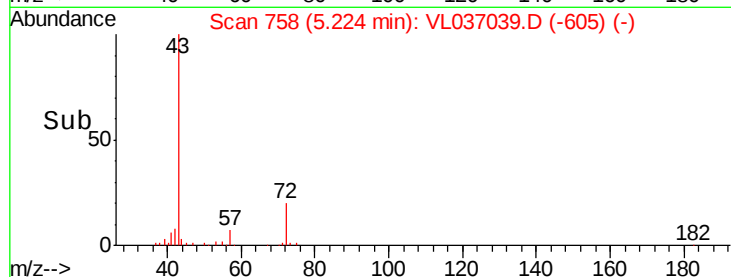
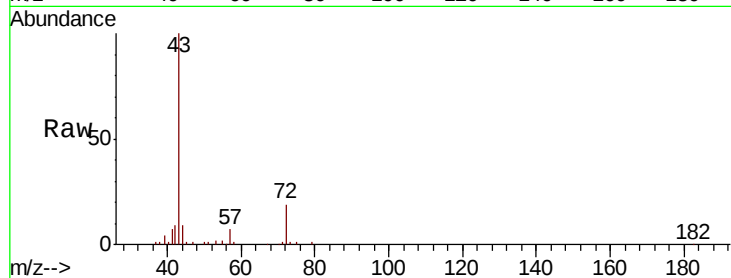




#34
2-Butanone
Concen: 0.355 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.01 min
Lab File: VL037039.D
Acq: 21 May 2021 00:49

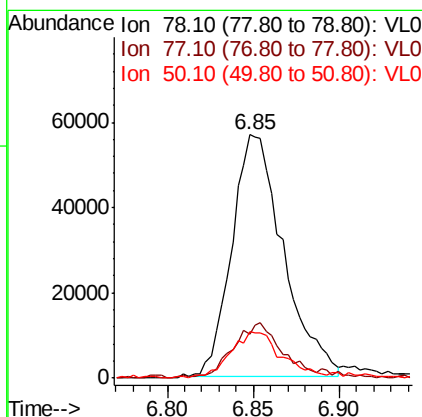
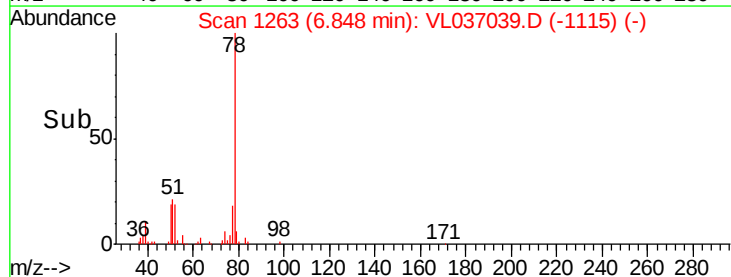
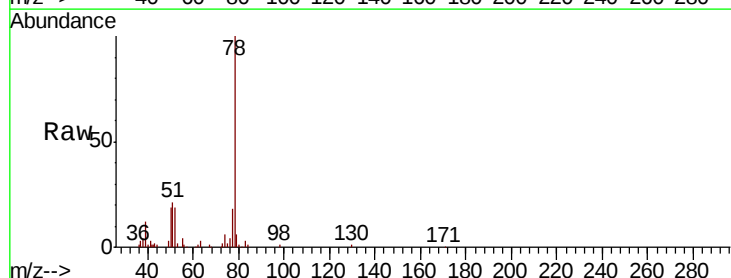
Instrument :
MSVOA_L
ClientSampleId :
BFB

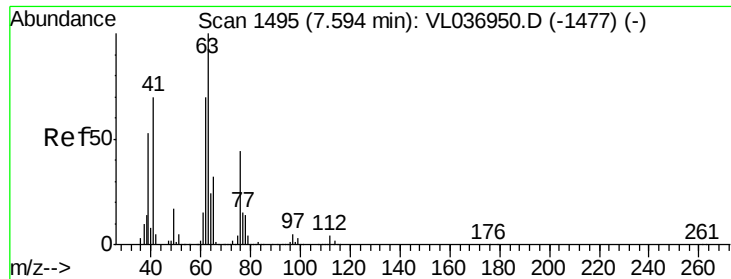
Tot Ion: 43 Resp: 42359
Ion Ratio Lower Upper
43 100
72 62.0 19.0 28.4#



#36
Benzene
Concen: 0.420 ppbv
RT: 6.85 min Scan# 1263
Delta R.T. -0.02 min
Lab File: VL037039.D
Acq: 21 May 2021 00:49

Tgt Ion: 78 Resp: 118674
Ion Ratio Lower Upper
78 100
77 17.4 18.6 28.0#
50 18.7 15.0 22.4

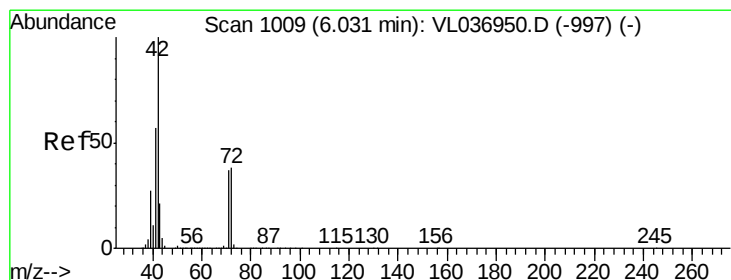
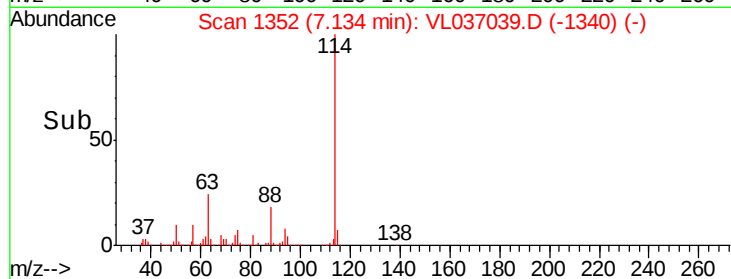
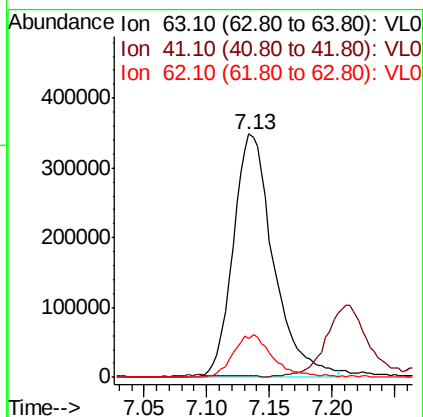
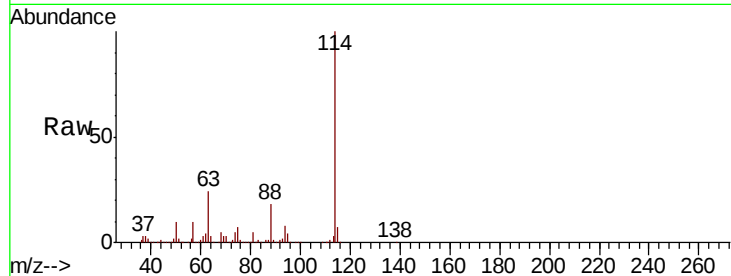




#39
 1,2-Dichloropropane
 Concen: 7.155 ppbv
 RT: 7.13 min Scan# 1352
 Delta R.T. -0.46 min
 Lab File: VL037039.D
 Acq: 21 May 2021 00:49

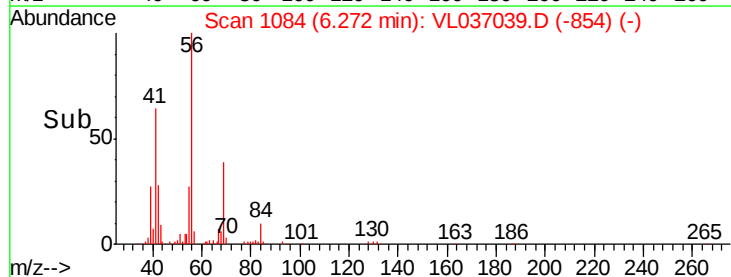
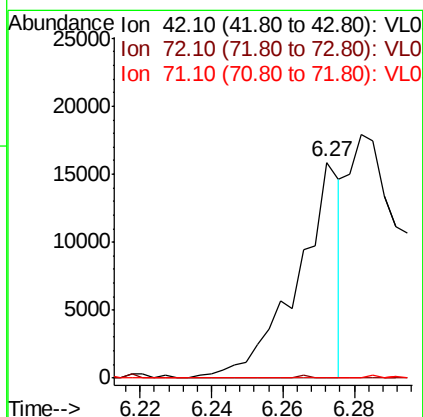
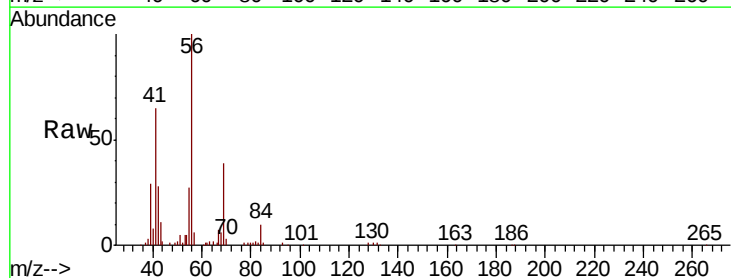
Instrument :
 MSVOA_L
 ClientSampled :
 BFB

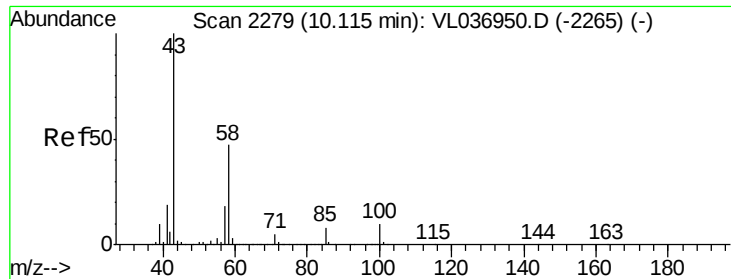
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	16.2	56.2	84.4#



#41
 Tetrahydrofuran
 Concen: 0.198 ppbv
 RT: 6.27 min Scan# 1084
 Delta R.T. 0.24 min
 Lab File: VL037039.D
 Acq: 21 May 2021 00:49

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.0	31.4	47.2#
71	0.0	30.4	45.6#

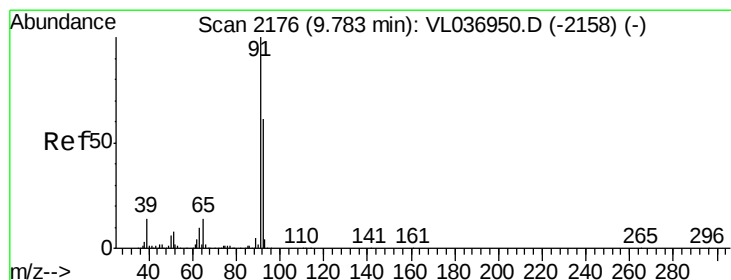
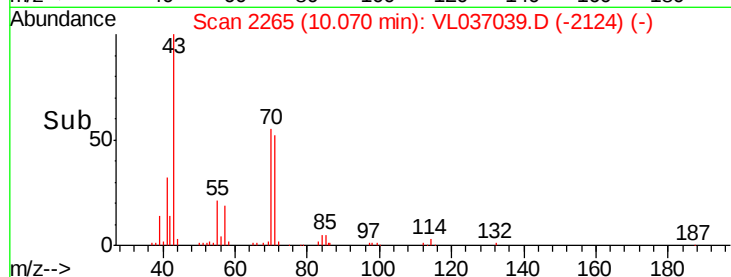
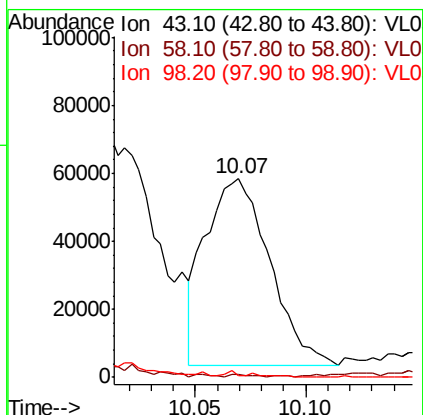
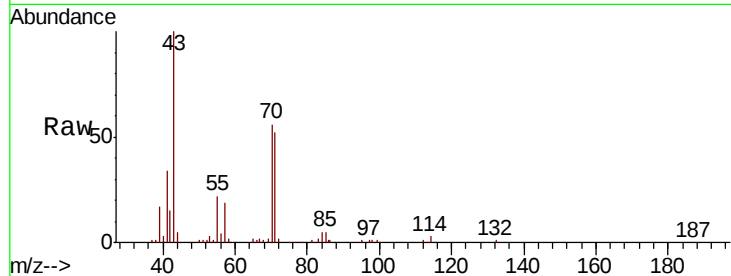




#51
 2-Hexanone
 Concen: 1.073 ppbv
 RT: 10.07 min Scan# 2265
 Delta R.T. -0.05 min
 Lab File: VL037039.D
 Acq: 21 May 2021 00:49

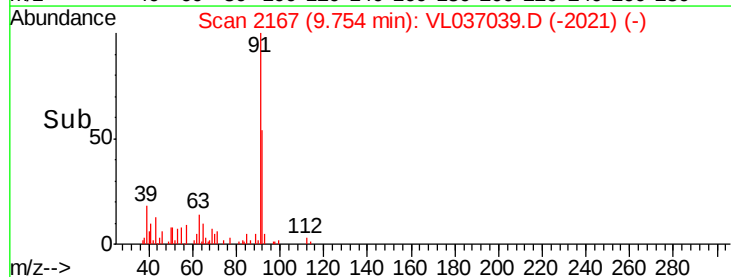
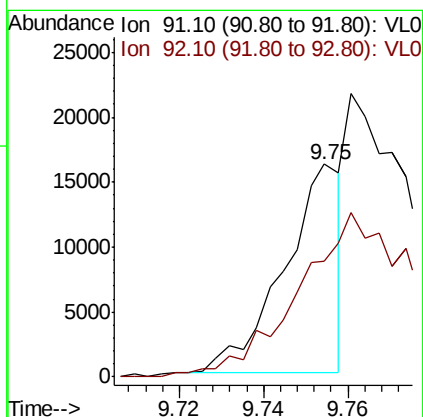
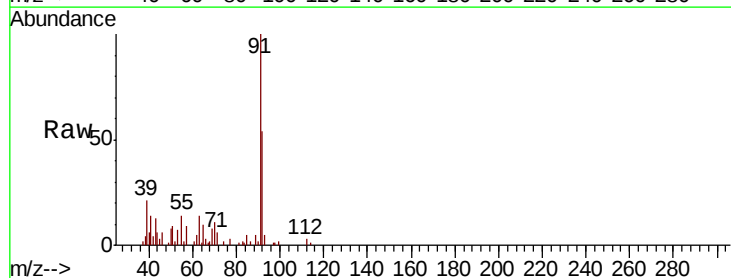
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

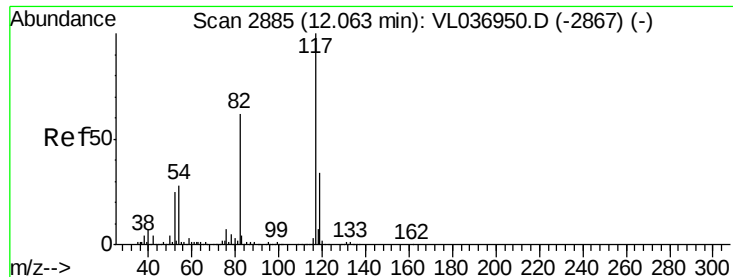
Tot Ion: 43 Resp: 111774
 Ion Ratio Lower Upper
 43 100
 58 0.0 41.1 61.7#
 98 0.0 0.1 0.1#



#53
 Toluene
 Concen: 0.045 ppbv
 RT: 9.75 min Scan# 2167
 Delta R.T. -0.03 min
 Lab File: VL037039.D
 Acq: 21 May 2021 00:49

Tgt Ion: 91 Resp: 15173
 Ion Ratio Lower Upper
 91 100
 92 0.0 49.5 74.3#

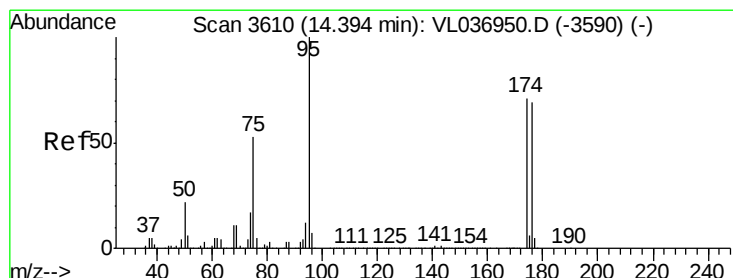
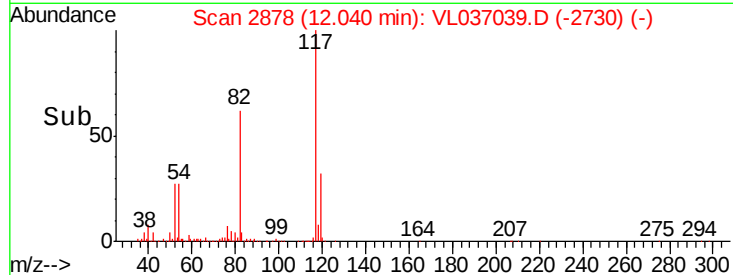
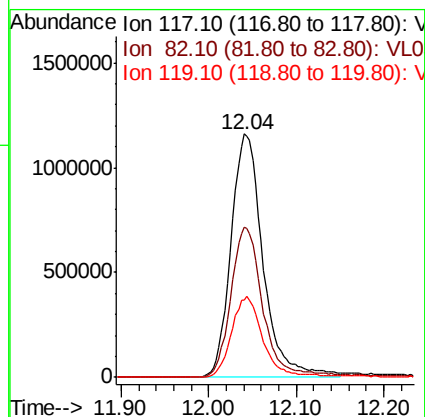
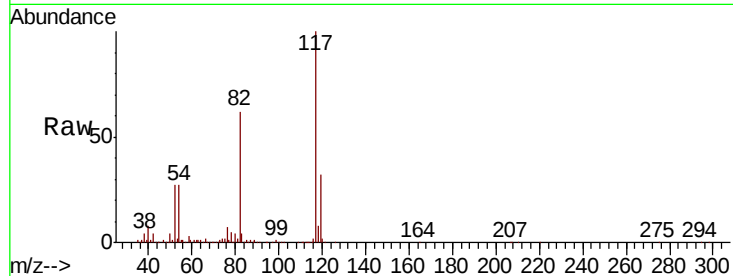




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min Scan# 2878
Delta R.T. -0.02 min
Lab File: VL037039.D
Acq: 21 May 2021 00:49

Instrument :
MSVOA_L
ClientSampleId :
BFB

Tot Ion:117 Resp: 2957896
Ion Ratio Lower Upper
117 100
82 63.3 52.6 79.0
119 33.8 46.6 70.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.447 ppbv
RT: 14.37 min Scan# 3603
Delta R.T. -0.02 min
Lab File: VL037039.D
Acq: 21 May 2021 00:49

Tgt Ion: 95 Resp: 2099049
Ion Ratio Lower Upper
95 100
174 77.0 58.4 87.6
175 5.8 4.4 6.6

