

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052021\
 Data File : VL037041.D
 Acq On : 21 May 2021 2:05
 Operator : SY/AP
 Sample : M2424-13DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DUP-03-05132021DL

Quant Time: May 21 03:39:24 2021
 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1094553	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.14	114	3264398	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.04	117	2843412	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	1989699	9.31	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

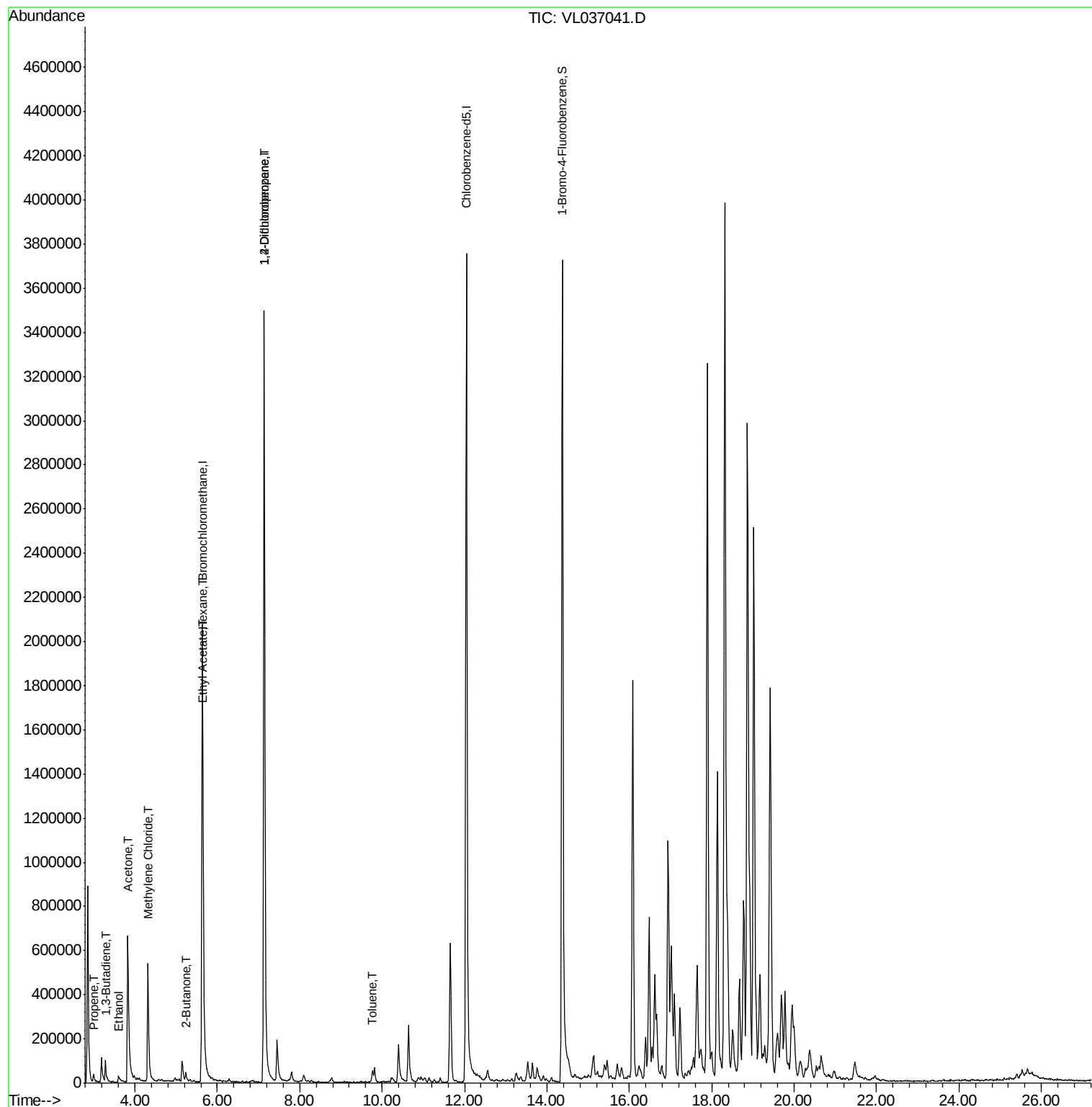
Target Compounds					Ovalue
9) Propene	3.00	41	11959	0.167 ppbv	88
13) Ethanol	3.60	45	14320	1.495 ppbv #	1
15) Acetone	3.83	43	1033802	9.221 ppbv	99
16) 1,3-Butadiene	3.29	39	29094	0.418 ppbv #	18
20) Methylene Chloride	4.32	84	234465	3.901 ppbv	99
25) Ethyl Acetate	5.66	43	139260	0.517 ppbv #	84
26) Hexane	5.65	57	195617	1.421 ppbv #	49
34) 2-Butanone	5.23	43	48881	0.411 ppbv #	76
39) 1,2-Dichloropropane	7.14	63	751203	6.935 ppbv #	26
53) Toluene	9.76	91	25273	0.076 ppbv #	32

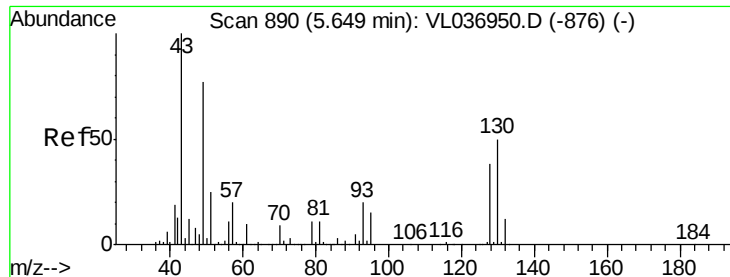
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.01 min

Lab File: VL037041.D

Acq: 21 May 2021 2:05

Instrument :

MSVOA_L

ClientSampleId :

DUP-03-05132021DL

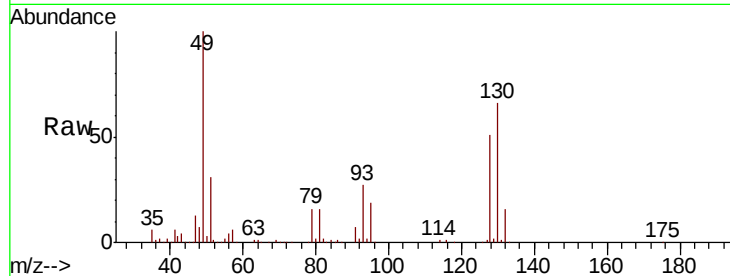
Tot Ion: 49 Resp: 1094553

Ion Ratio Lower Upper

49 100

128 55.4 26.9 80.7

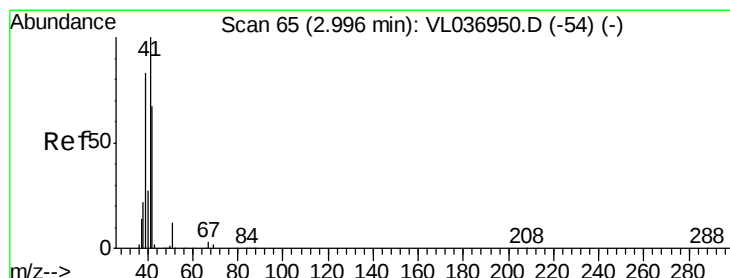
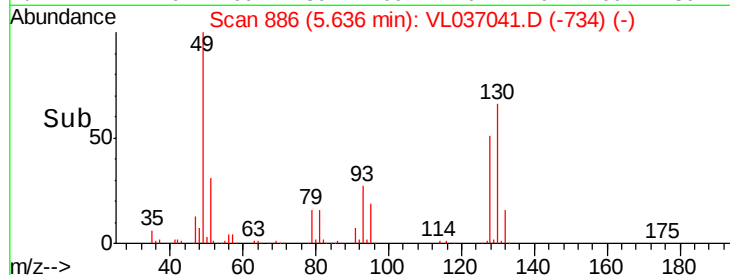
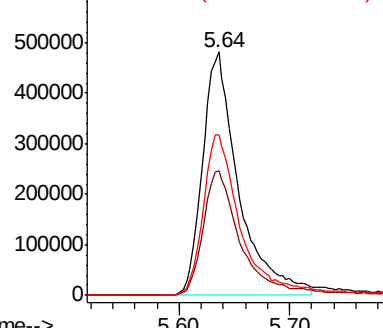
130 70.5 33.8 101.4



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: 0.167 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL037041.D

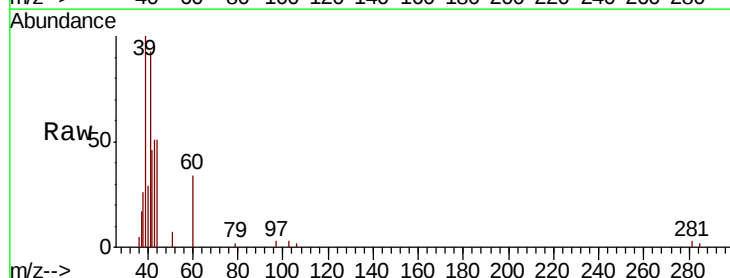
Acq: 21 May 2021 2:05

Tgt Ion: 41 Resp: 11959

Ion Ratio Lower Upper

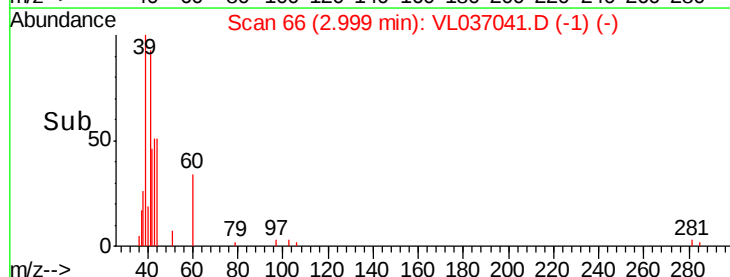
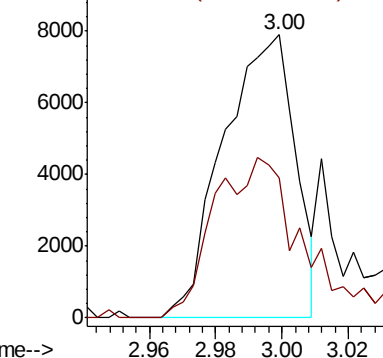
41 100

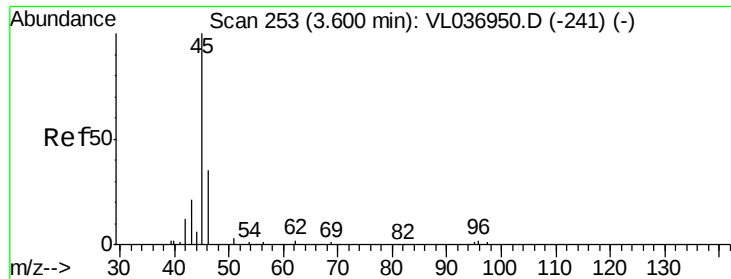
42 77.2 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 1.495 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL037041.D

Acq: 21 May 2021 2:05

Instrument :

MSVOA_L

ClientSampleId :

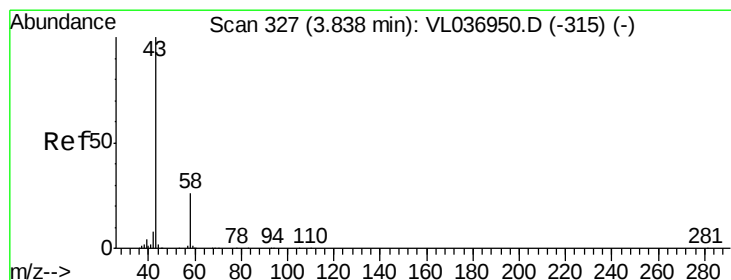
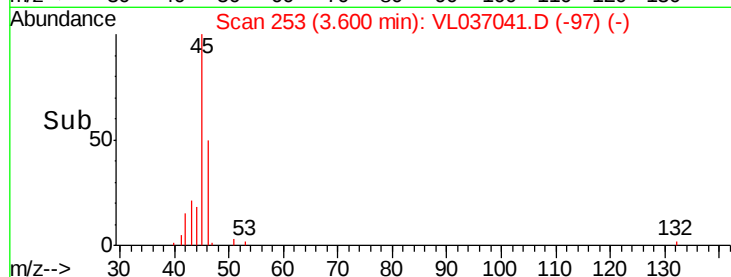
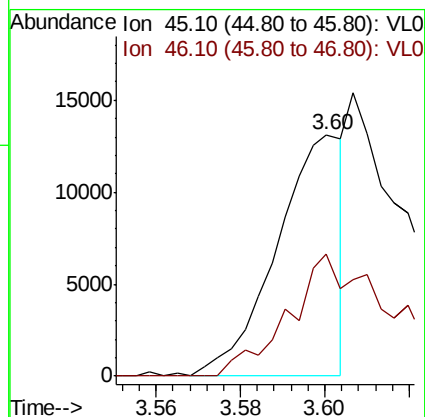
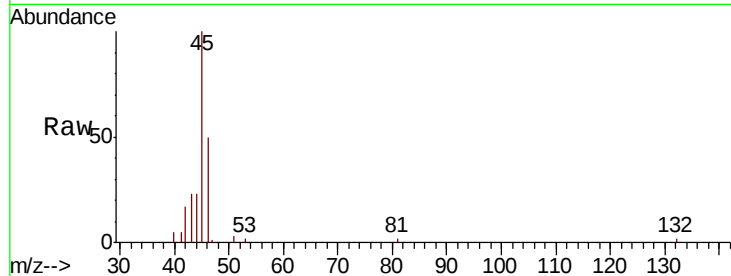
DUP-03-05132021DL

Tot Ion: 45 Resp: 14320

Ion Ratio Lower Upper

45 100

46 119.7 16.3 65.3#



#15

Acetone

Concen: 9.221 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.01 min

Lab File: VL037041.D

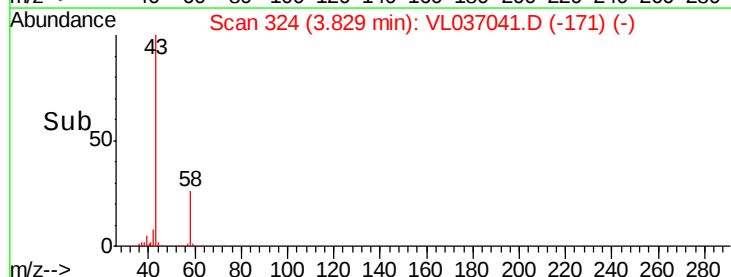
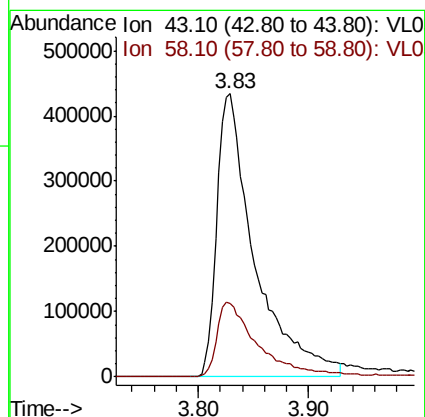
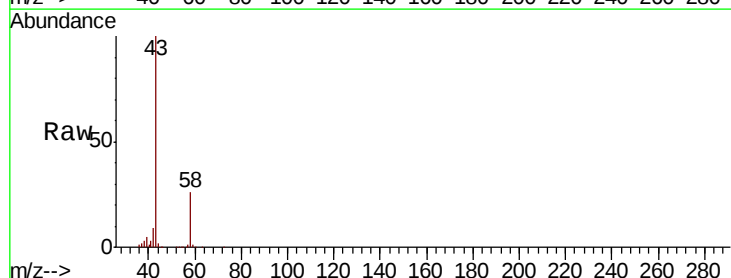
Acq: 21 May 2021 2:05

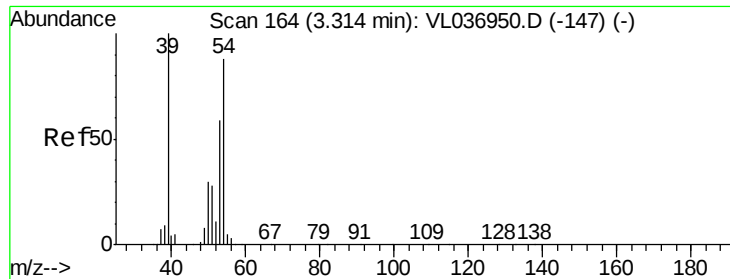
Tgt Ion: 43 Resp: 1033802

Ion Ratio Lower Upper

43 100

58 29.4 24.0 36.0





#16

1,3-Butadiene

Concen: 0.418 ppbv

RT: 3.29 min Scan# 155

Delta R.T. -0.03 min

Lab File: VL037041.D

Acq: 21 May 2021 2:05

Instrument :

MSVOA_L

ClientSampleId :

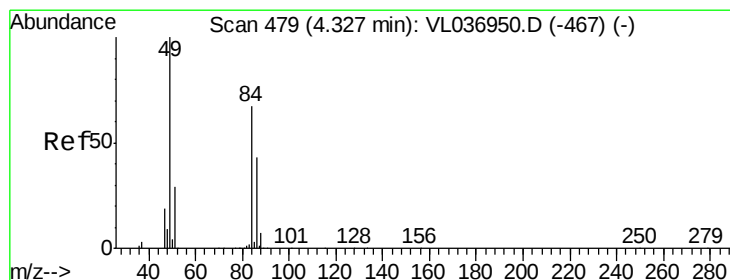
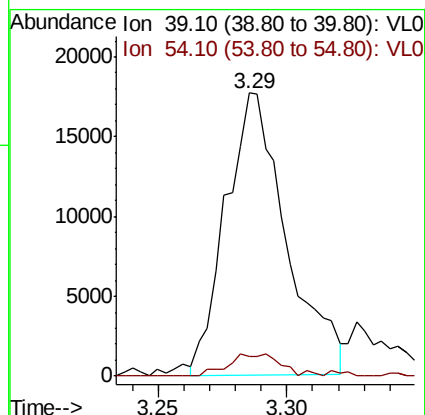
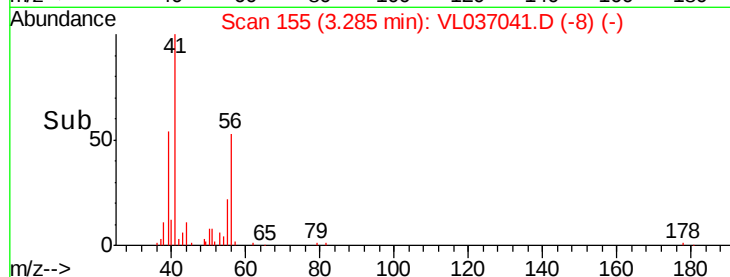
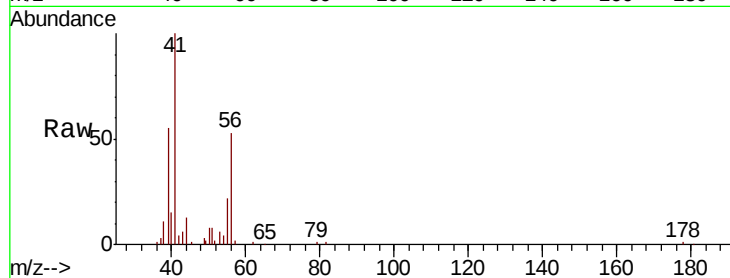
DUP-03-05132021DL

Tot Ion: 39 Resp: 29094

Ion Ratio Lower Upper

39 100

54 7.3 63.2 94.8#



#20

Methylene Chloride

Concen: 3.901 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL037041.D

Acq: 21 May 2021 2:05

Tgt Ion: 84 Resp: 234465

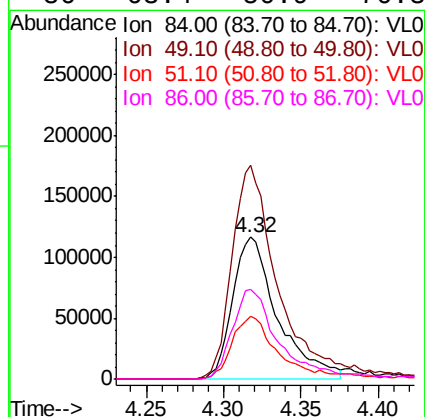
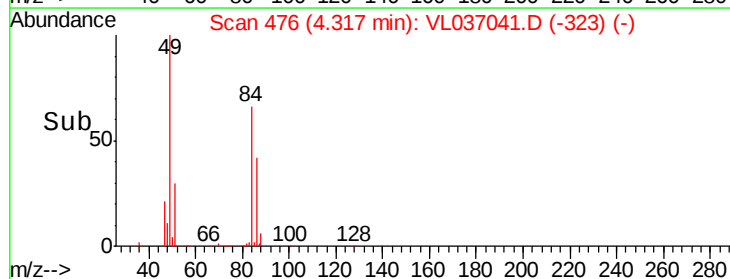
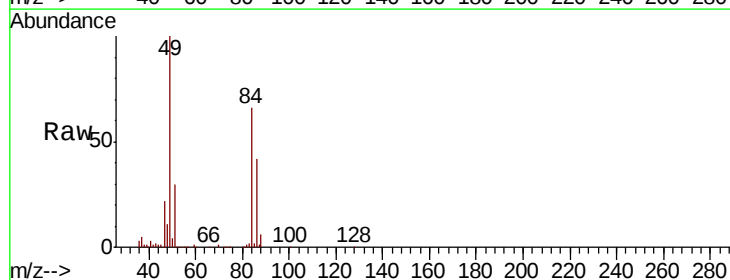
Ion Ratio Lower Upper

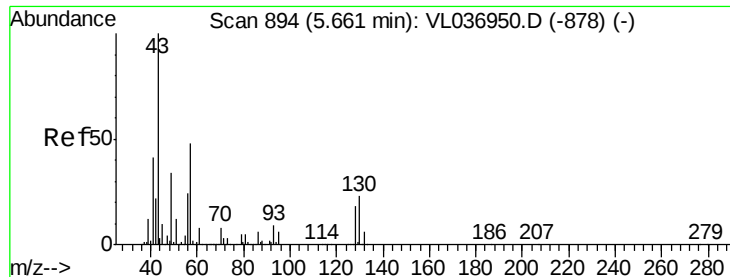
84 100

49 150.7 119.8 179.6

51 44.5 35.1 52.7

86 63.4 50.9 76.3





#25

Ethyl Acetate

Concen: 0.517 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037041.D

Acq: 21 May 2021 2:05

Instrument :

MSVOA_L

ClientSampleId :

DUP-03-05132021DL

Tot Ion: 43 Resp: 139260

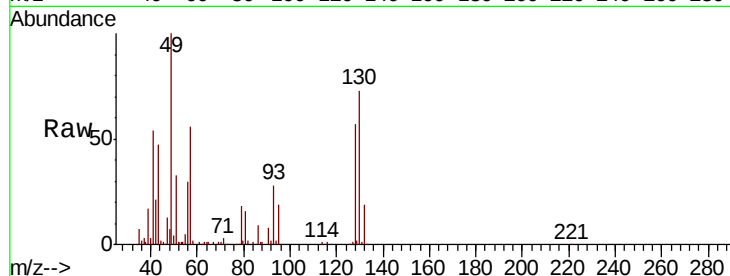
Ion Ratio Lower Upper

43 100

45 4.0 7.8 11.8#

61 2.2 7.8 11.8#

70 3.2 5.6 8.4#

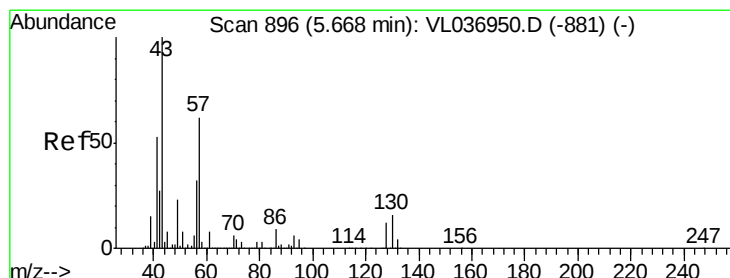
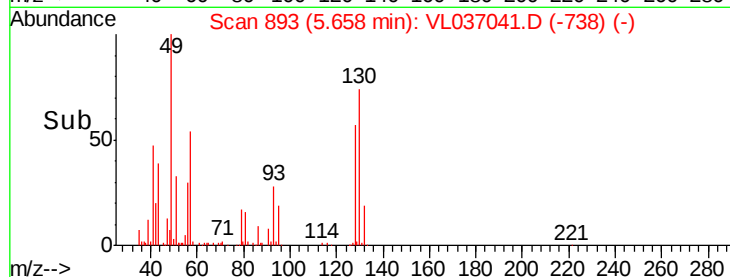
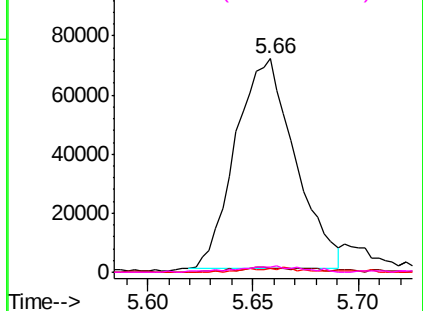


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.421 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037041.D

Acq: 21 May 2021 2:05

Tgt Ion: 57 Resp: 195617

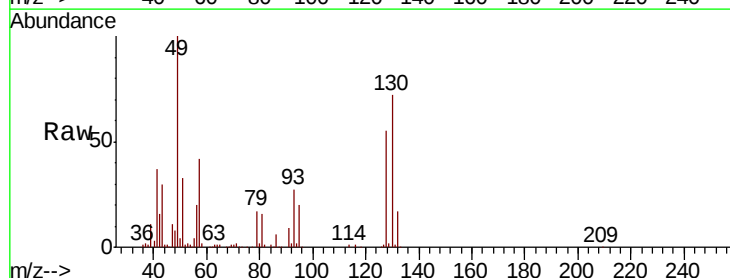
Ion Ratio Lower Upper

57 100

41 96.1 70.5 105.7

43 80.4 165.8 248.8#

56 53.9 42.2 63.4

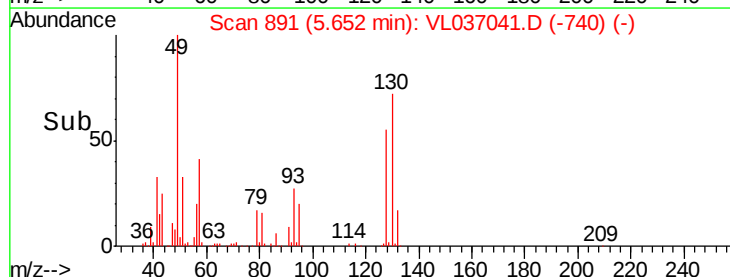
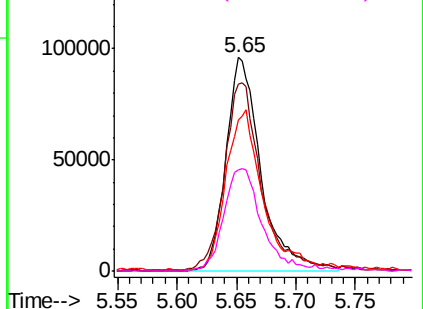


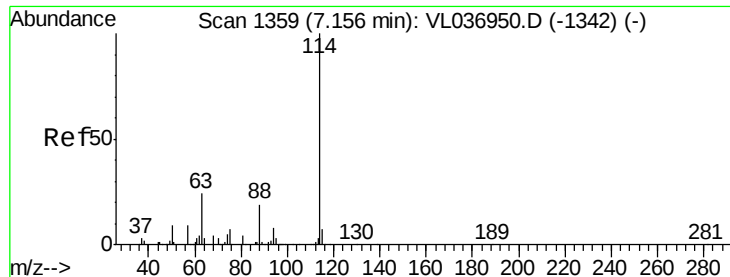
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

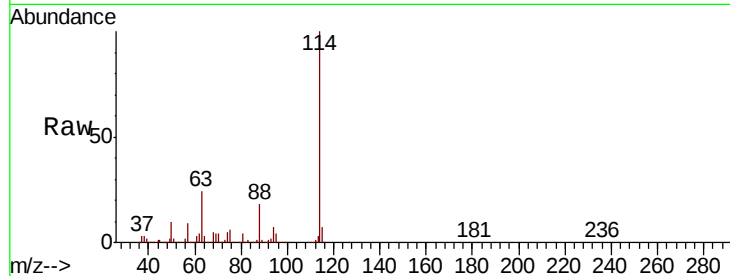




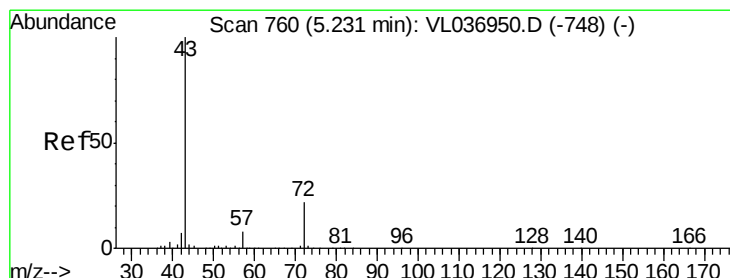
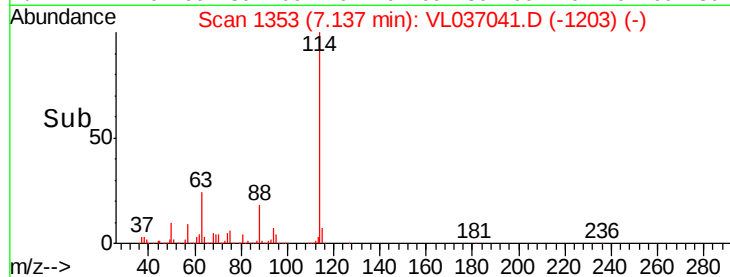
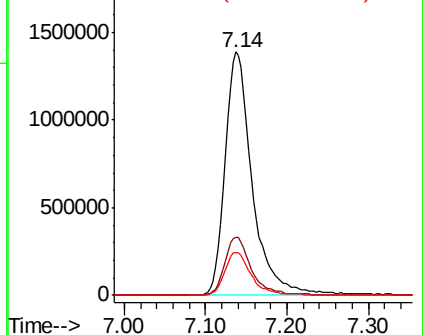
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1353
 Delta R.T. -0.02 min
 Lab File: VL037041.D
 Acq: 21 May 2021 2:05

Instrument :
 MSVOA_L
 ClientSampleId :
 DUP-03-05132021DL

Tot Ion:114 Resp: 3264398
 Ion Ratio Lower Upper
 114 100
 63 23.7 19.6 29.4
 88 17.8 14.6 21.8

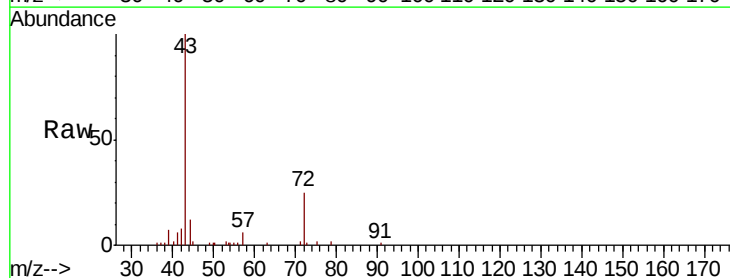


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

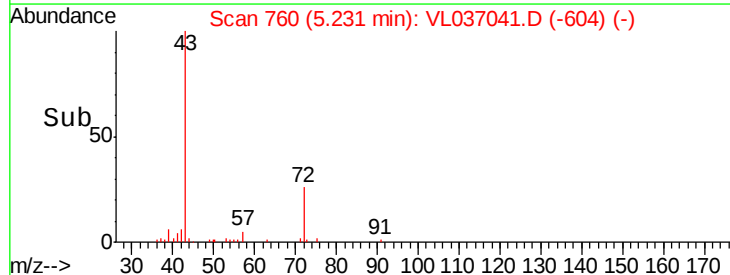
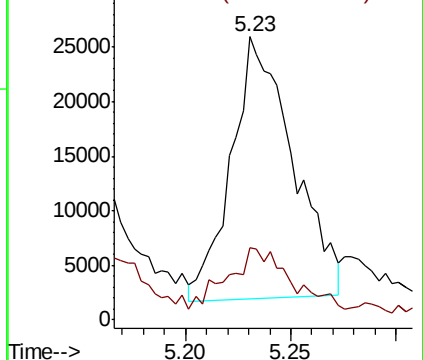


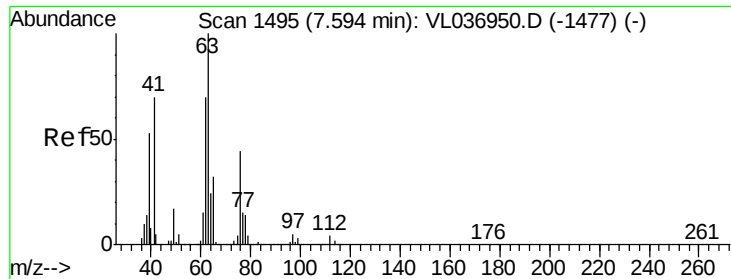
#34
 2-Butanone
 Concen: 0.411 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: VL037041.D
 Acq: 21 May 2021 2:05

Tgt Ion: 43 Resp: 48881
 Ion Ratio Lower Upper
 43 100
 72 35.7 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 6.935 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL037041.D

Acq: 21 May 2021 2:05

Instrument :

MSVOA_L

ClientSampleId :

DUP-03-05132021DL

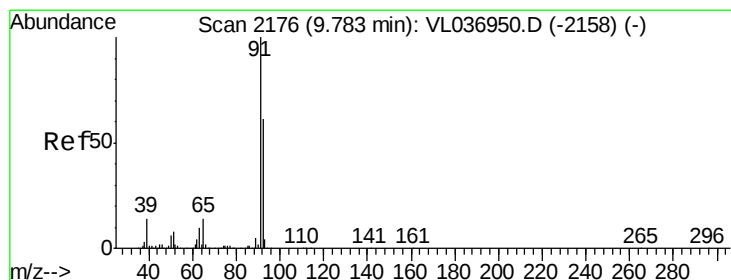
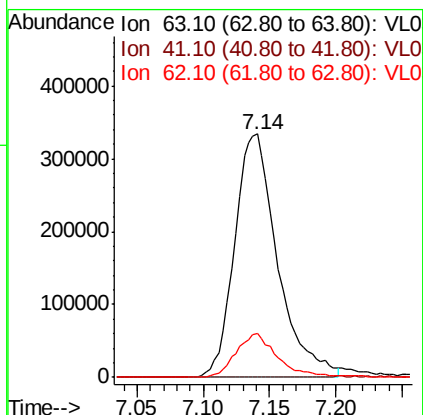
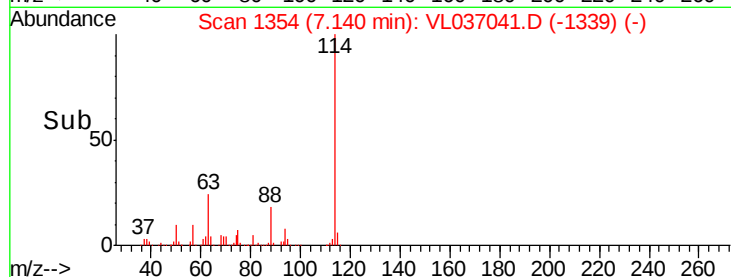
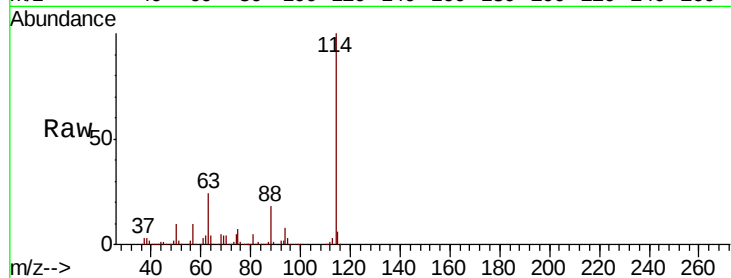
Tot Ion: 63 Resp: 751203

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

62 18.3 56.2 84.4#



#53

Toluene

Concen: 0.076 ppbv

RT: 9.76 min Scan# 2170

Delta R.T. -0.02 min

Lab File: VL037041.D

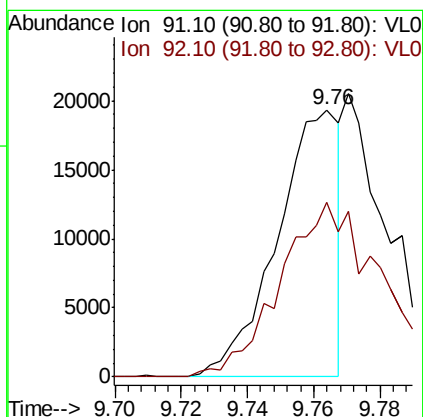
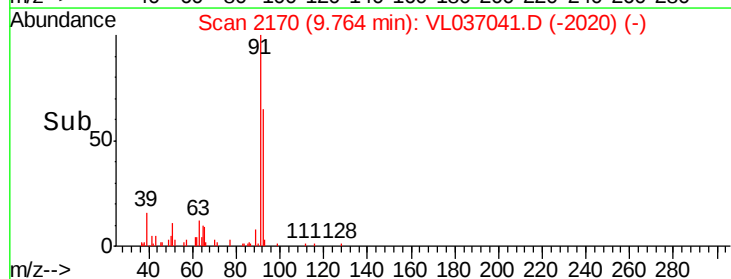
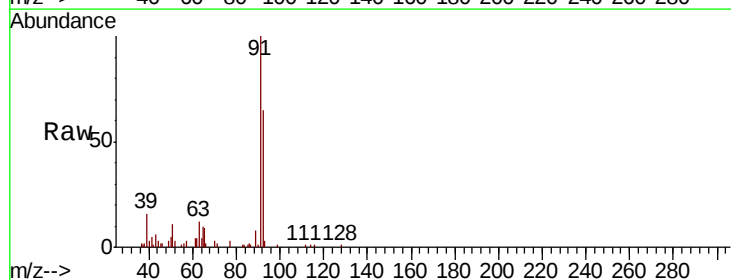
Acq: 21 May 2021 2:05

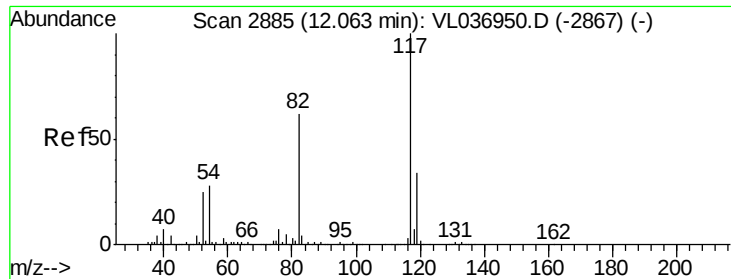
Tgt Ion: 91 Resp: 25273

Ion Ratio Lower Upper

91 100

92 113.9 49.5 74.3#

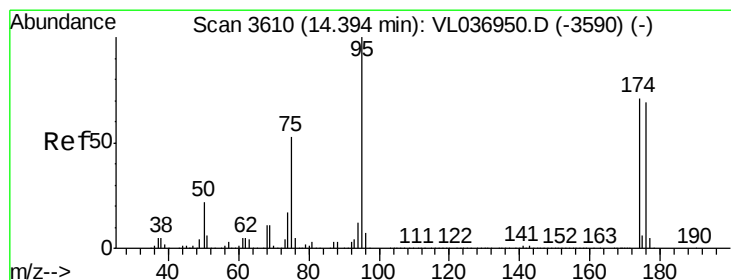
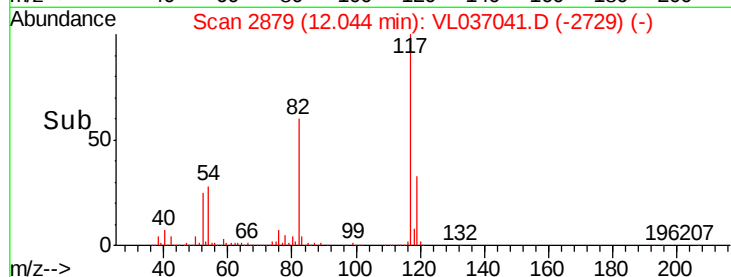
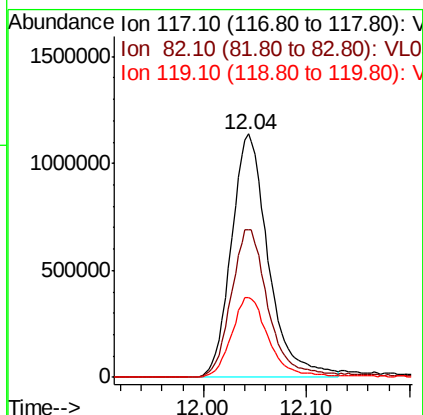
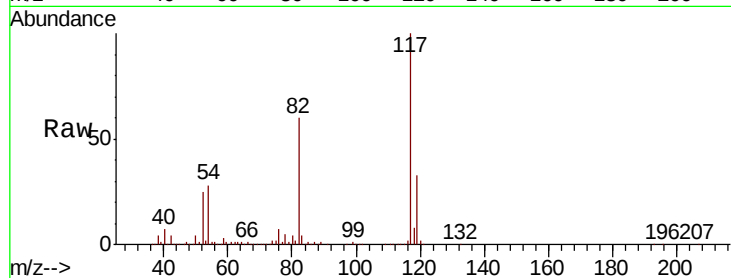




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min Scan# 2879
Delta R.T. -0.02 min
Lab File: VL037041.D
Acq: 21 May 2021 2:05

Instrument :
MSVOA_L
ClientSampleId :
DUP-03-05132021DL

Tot Ion:117 Resp: 2843412
Ion Ratio Lower Upper
117 100
82 62.9 52.6 79.0
119 34.0 46.6 70.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.315 ppbv
RT: 14.37 min Scan# 3603
Delta R.T. -0.02 min
Lab File: VL037041.D
Acq: 21 May 2021 2:05

Tgt Ion: 95 Resp: 1989699
Ion Ratio Lower Upper
95 100
174 78.6 58.4 87.6
175 5.5 4.4 6.6

