

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032792.D
 Acq On : 20 Nov 2018 23:58
 Operator : SY/AP
 Sample : J5998-05 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:08:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1316319	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3365071	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3047247	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2280204	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

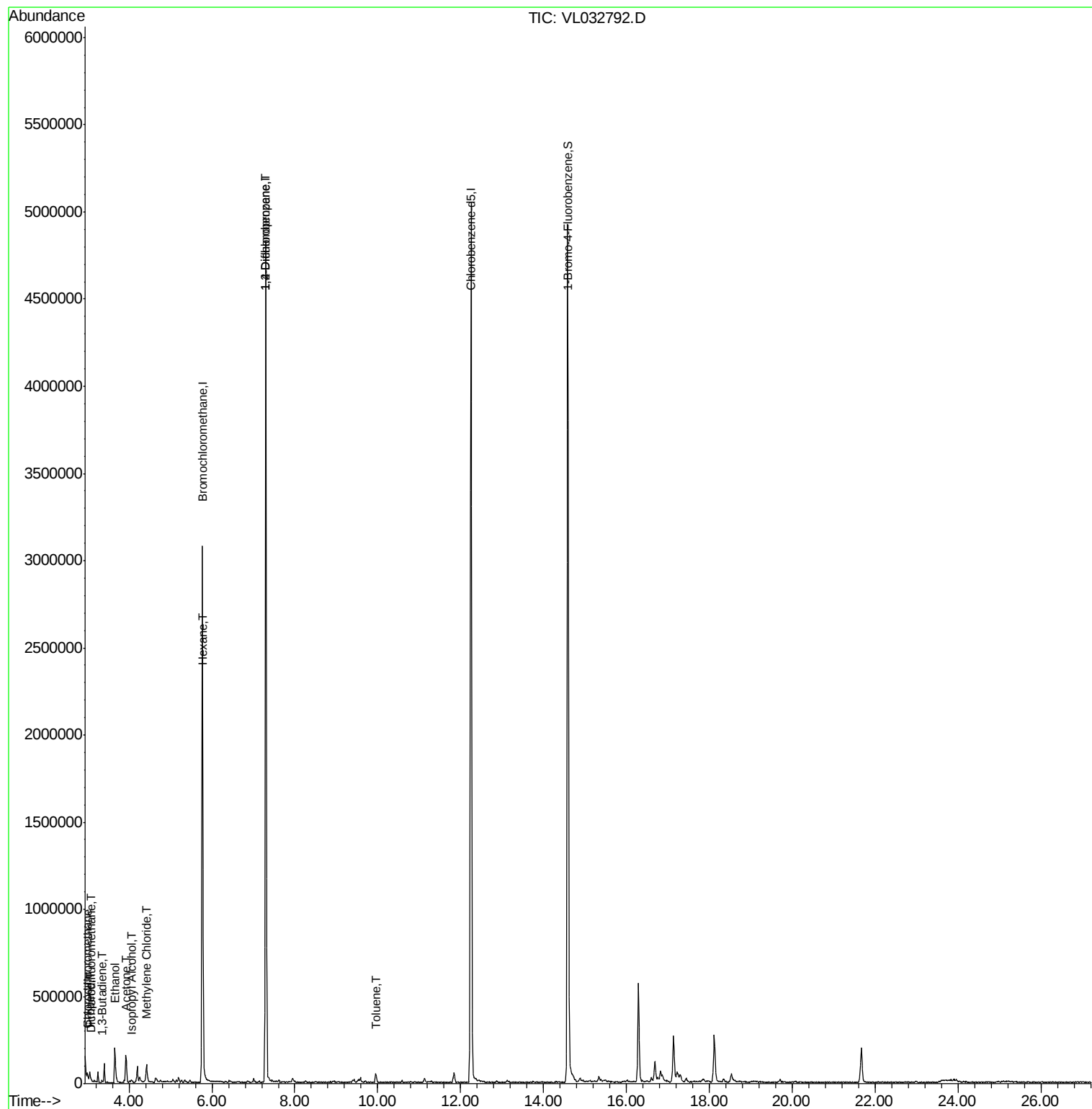
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	10357	0.055	ppbv	90
3) Chlorodifluoromethane	3.00	51	20577	0.197	ppbv #	71
9) Propene	3.06	41	10512	0.252	ppbv	85
13) Ethanol	3.66	45	217166	15.876	ppbv	98
15) Acetone	3.92	43	136569	1.136	ppbv	91
16) 1,3-Butadiene	3.35	39	2952	0.063	ppbv #	20
19) Isopropyl Alcohol	4.06	45	4789	0.060	ppbv #	34
20) Methylene Chloride	4.42	84	30365	0.488	ppbv	88
26) Hexane	5.79	57	5600	0.045	ppbv #	1
39) 1,2-Dichloropropane	7.30	63	831213	8.141	ppbv #	24
53) Toluene	9.95	91	35201	0.126	ppbv	88

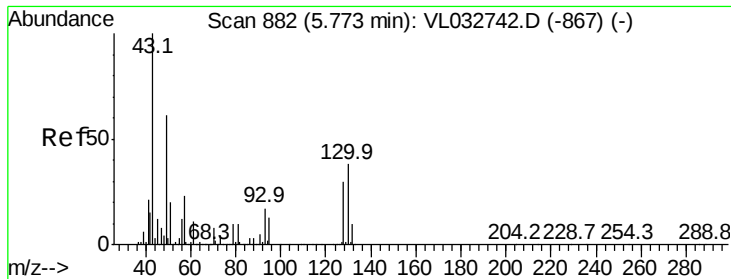
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

Instrument :
MSVOA_L
ClientSampled :

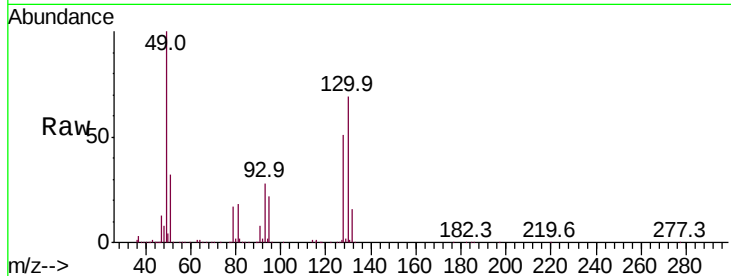
Tot Ion: 49 Resp: 1316319

Ion Ratio Lower Upper

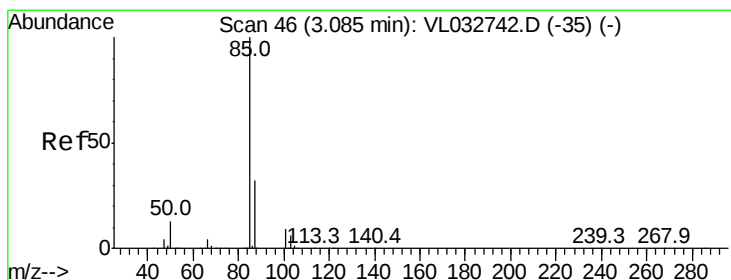
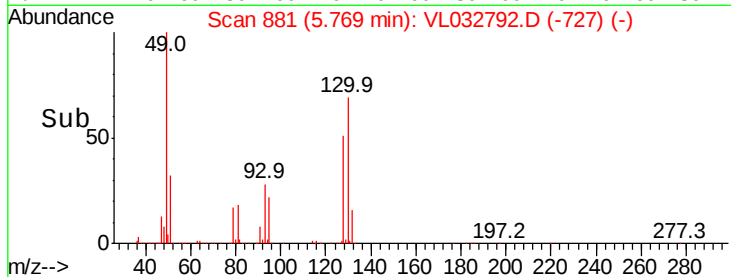
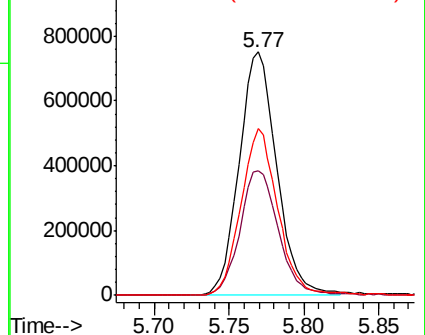
49 100

128 52.9 24.9 74.6

130 67.9 31.4 94.2



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: 0.055 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032792.D

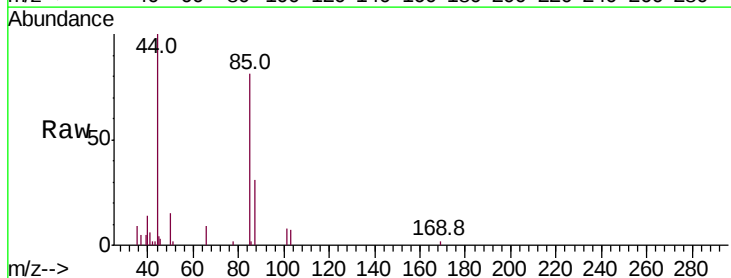
Acq: 20 Nov 2018 23:58

Tgt Ion: 85 Resp: 10357

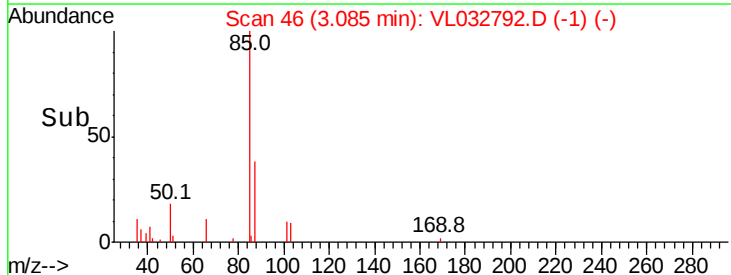
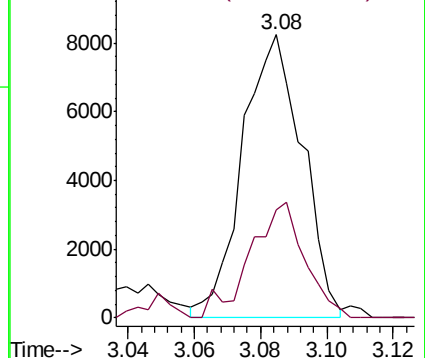
Ion Ratio Lower Upper

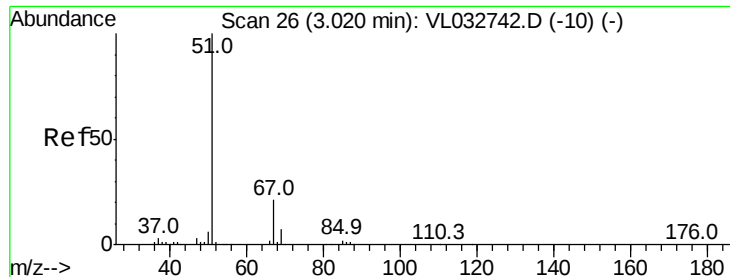
85 100

87 38.1 26.0 39.0



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





#3

Chlorodifluoromethane

Concen: 0.197 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.02 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

Instrument :

MSVOA_L

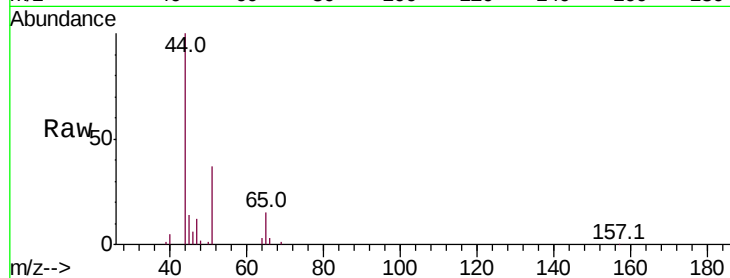
ClientSampleId :

Tot Ion: 51 Resp: 20577

Ion Ratio Lower Upper

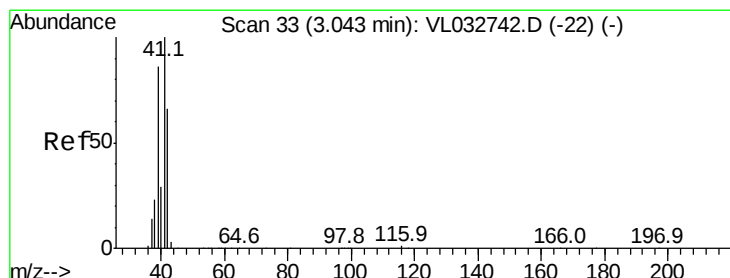
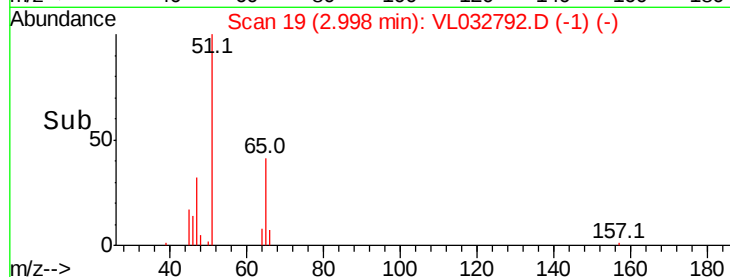
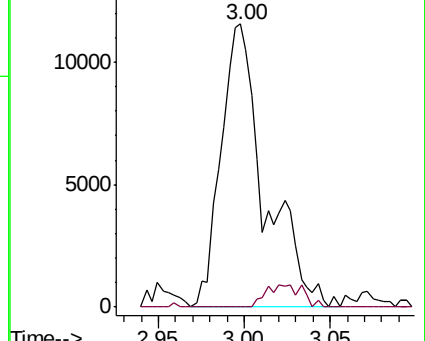
51 100

67 6.6 16.1 24.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.252 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032792.D

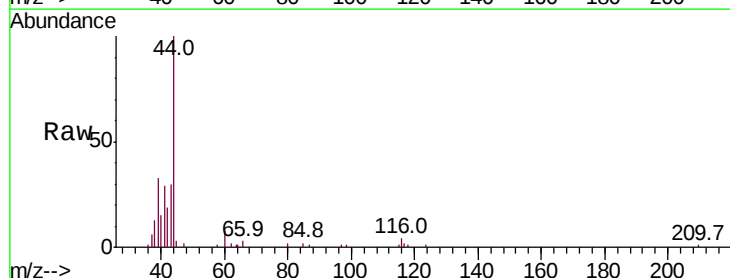
Acq: 20 Nov 2018 23:58

Tgt Ion: 41 Resp: 10512

Ion Ratio Lower Upper

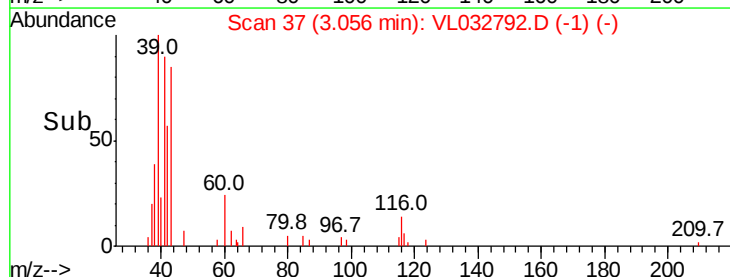
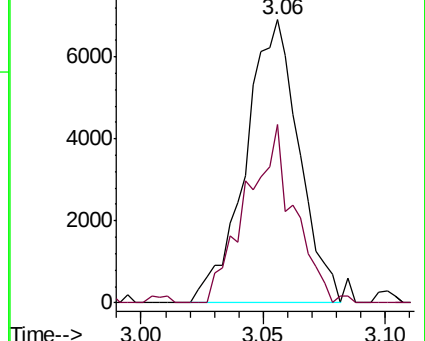
41 100

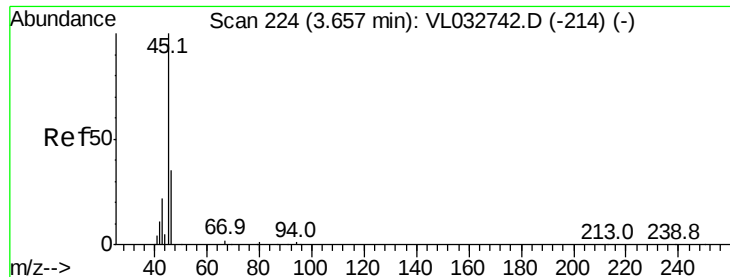
42 56.3 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 15.876 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.00 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

Instrument :

MSVOA_L

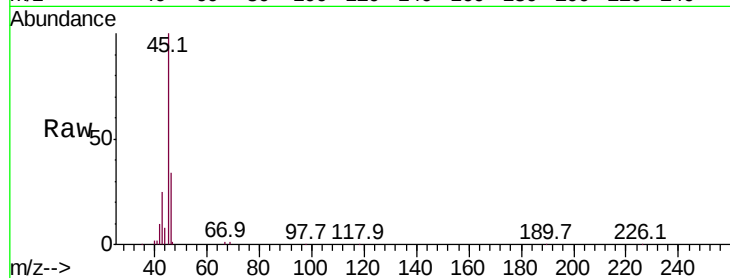
ClientSampleId :

Tot Ion: 45 Resp: 217166

Ion Ratio Lower Upper

45 100

46 37.5 14.5 57.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.66

120000

100000

80000

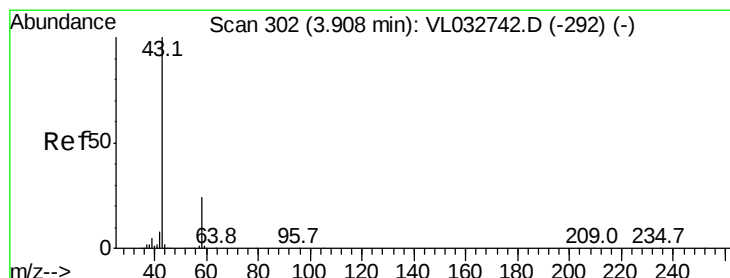
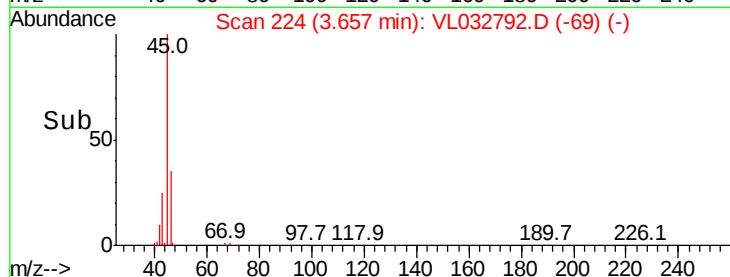
60000

40000

20000

0

Time-->



#15

Acetone

Concen: 1.136 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032792.D

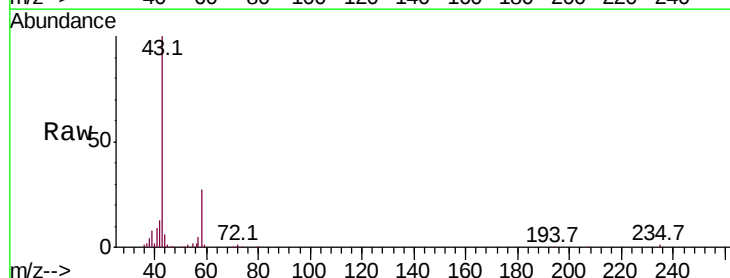
Acq: 20 Nov 2018 23:58

Tgt Ion: 43 Resp: 136569

Ion Ratio Lower Upper

43 100

58 22.0 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.92

80000

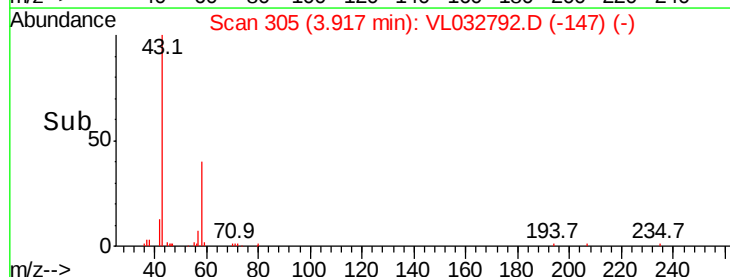
60000

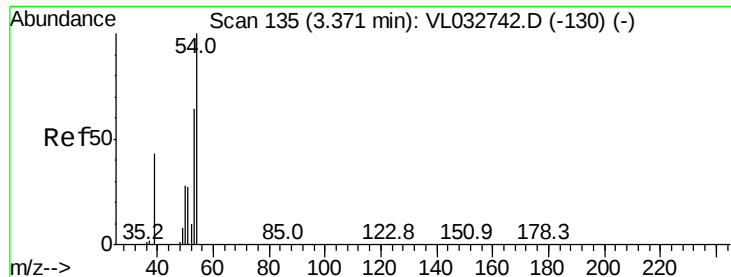
40000

20000

0

Time-->





#16

1,3-Butadiene

Concen: 0.063 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

Instrument :

MSVOA_L

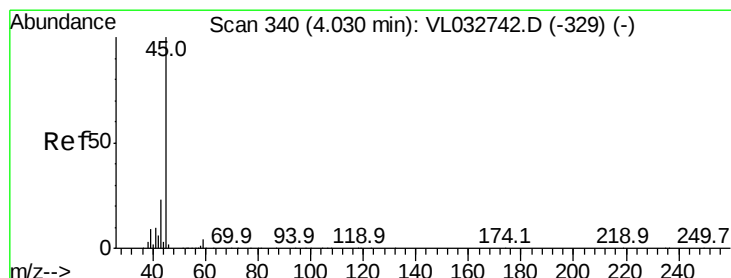
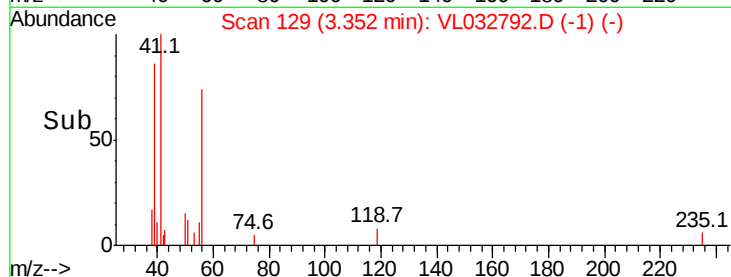
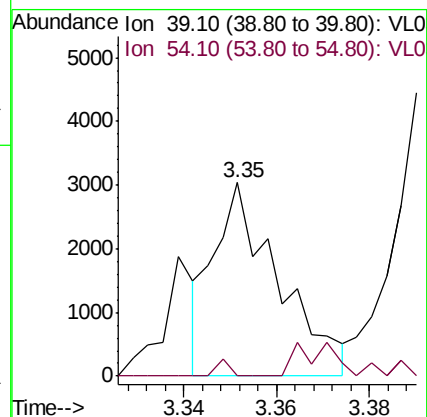
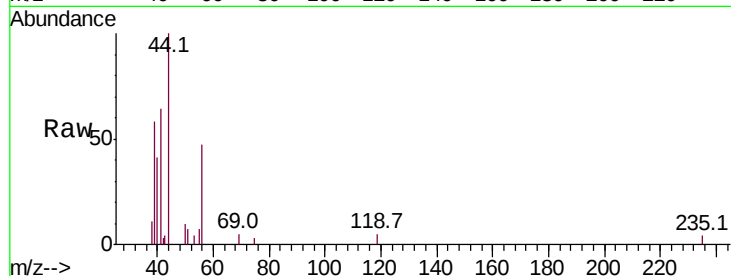
ClientSampleId :

Tot Ion: 39 Resp: 2952

Ion Ratio Lower Upper

39 100

54 12.8 68.9 103.3#



#19

Isopropyl Alcohol

Concen: 0.060 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL032792.D

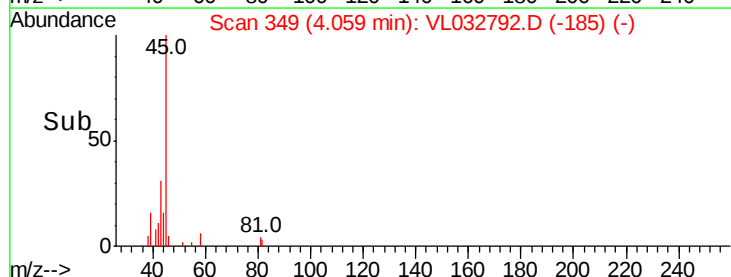
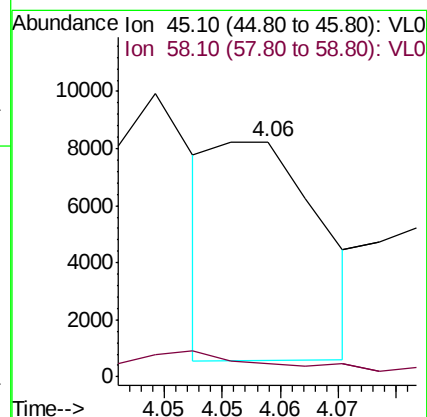
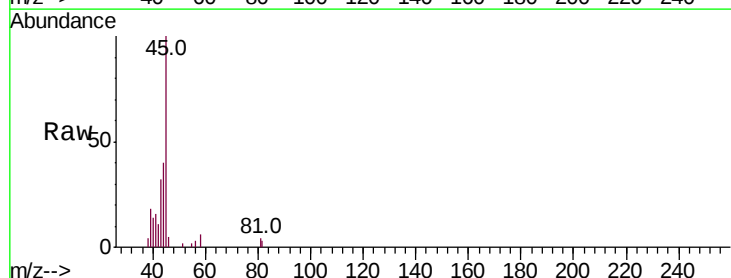
Acq: 20 Nov 2018 23:58

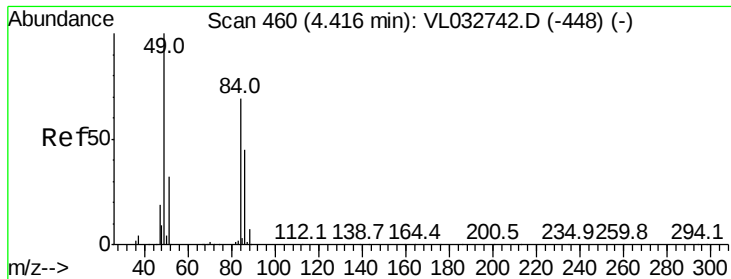
Tgt Ion: 45 Resp: 4789

Ion Ratio Lower Upper

45 100

58 25.8 1.4 2.0#

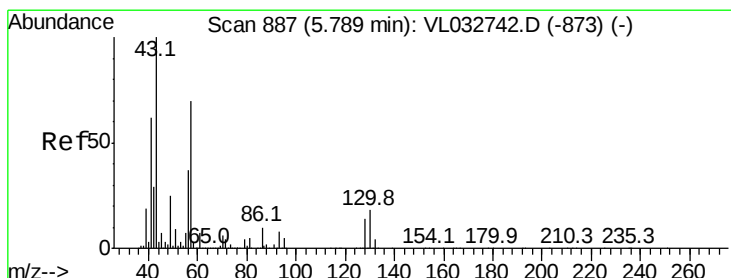
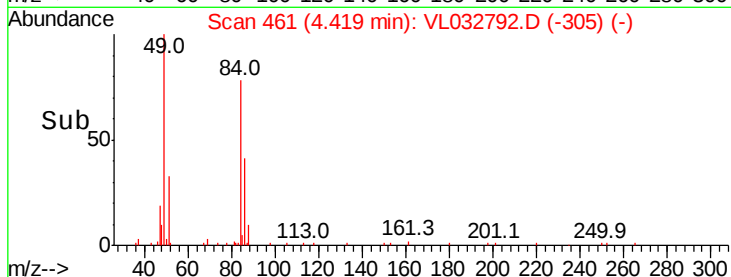
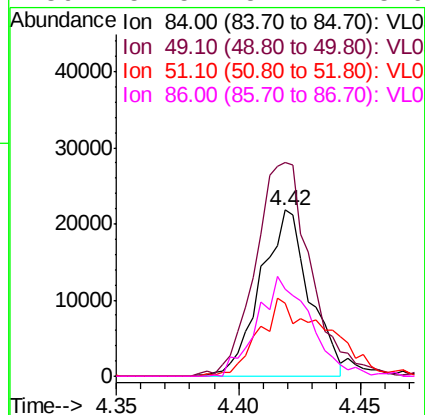
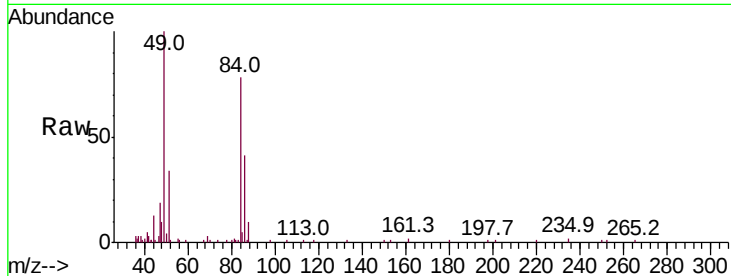




#20
Methvlene Chloride
Concen: 0.488 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032792.D
Acq: 20 Nov 2018 23:58

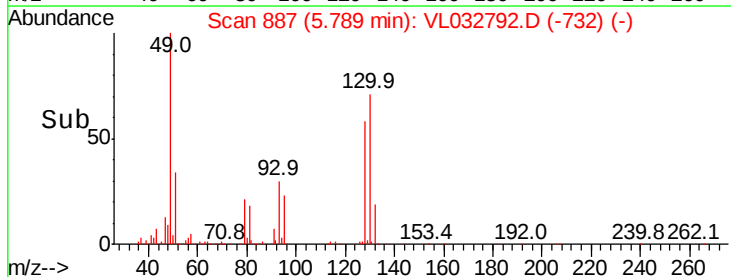
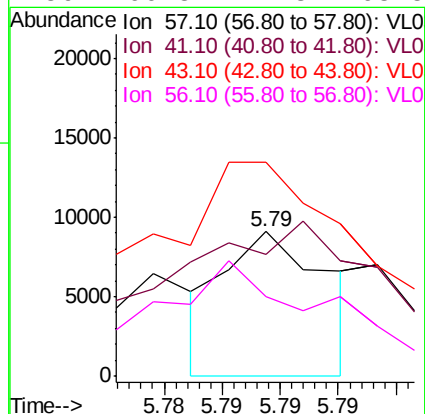
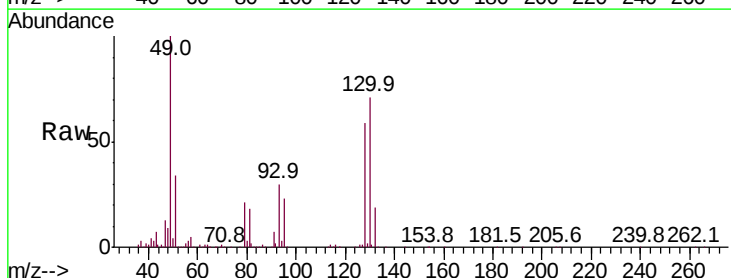
Instrument :
MSVOA_L
ClientSampleId :

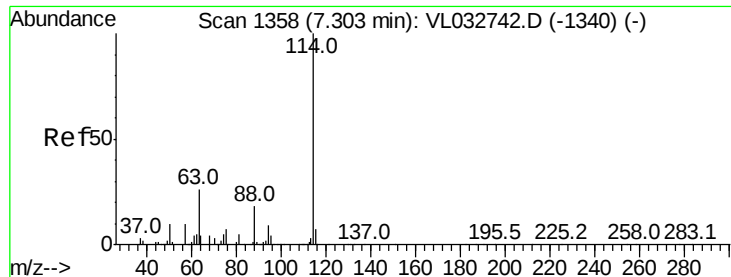
Tot Ion:	84	Resp:	30365
Ion	Ratio	Lower	Upper
84	100		
49	128.8	115.8	173.6
51	44.3	36.9	55.3
86	52.5	52.4	78.6



#26
Hexane
Concen: 0.045 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032792.D
Acq: 20 Nov 2018 23:58

Tgt Ion:	57	Resp:	5600
Ion	Ratio	Lower	Upper
57	100		
41	276.5	70.3	105.5#
43	402.1	174.0	261.0#
56	166.8	42.3	63.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

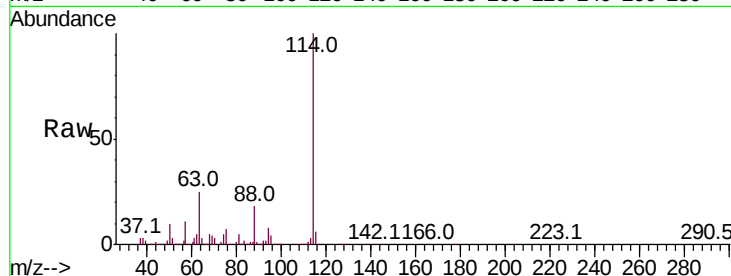
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:114 Resp: 3365071

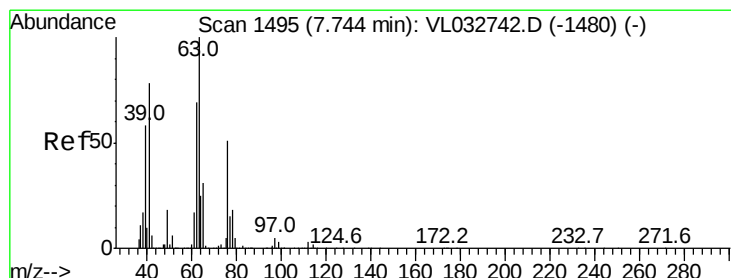
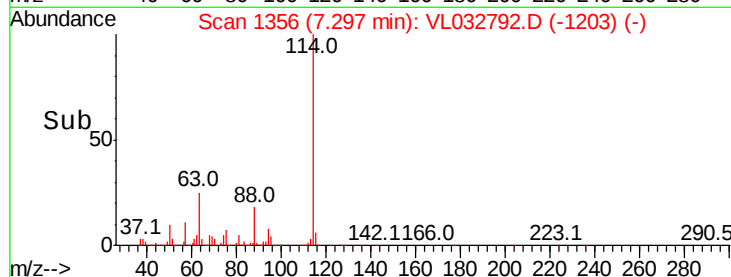
Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.9	31.3
88	17.6	14.4	21.6



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



#39

1,2-Dichloropropane

Concen: 8.141 ppbv

RT: 7.30 min Scan# 1356

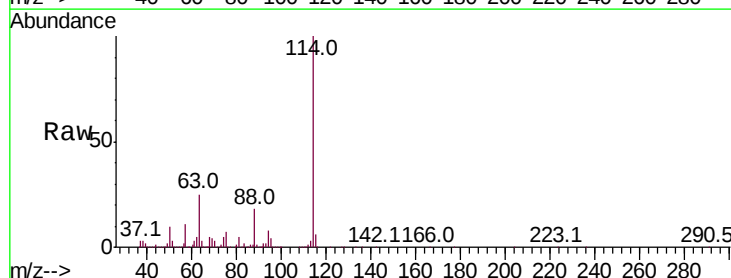
Delta R.T. -0.45 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

Tgt Ion: 63 Resp: 831213

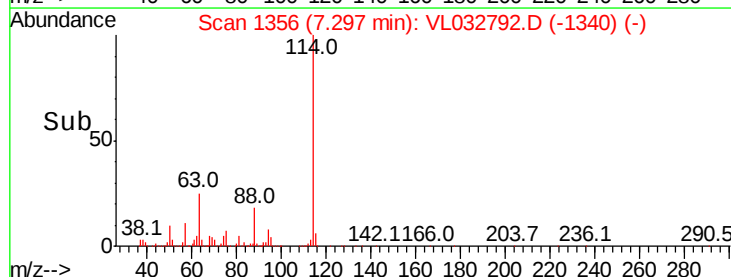
Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.0	93.0#
62	18.9	55.4	83.2#

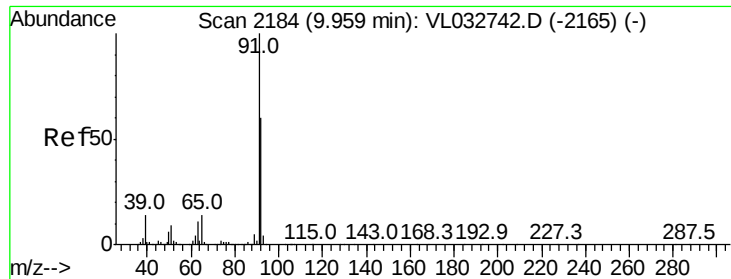


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.126 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

Instrument :

MSVOA_L

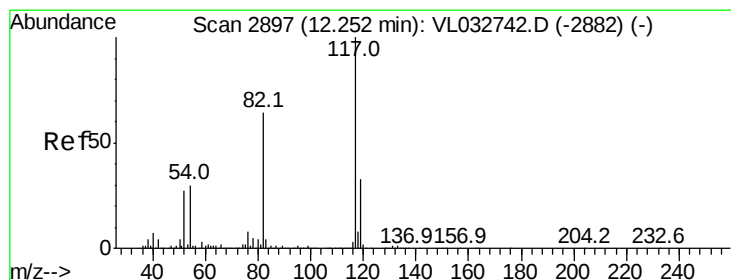
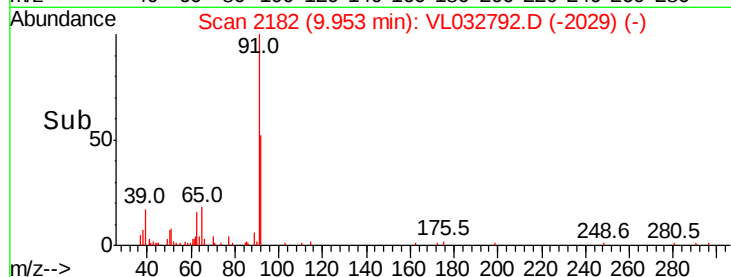
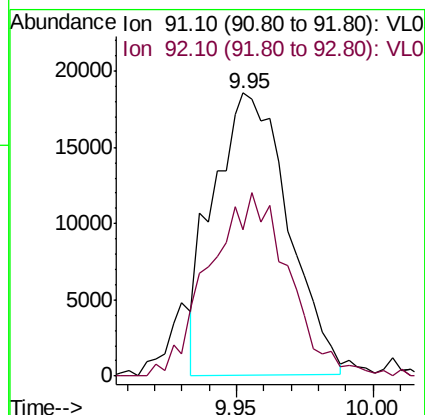
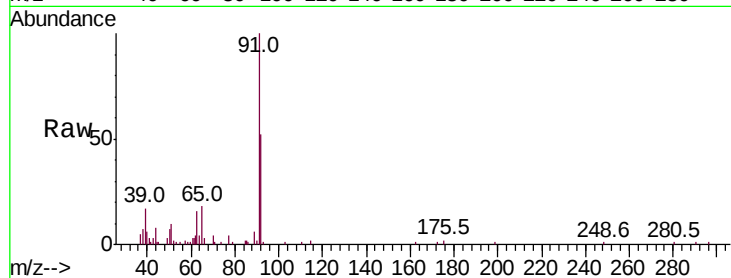
ClientSampleId :

Tot Ion: 91 Resp: 35201

Ion Ratio Lower Upper

91 100

92 69.1 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

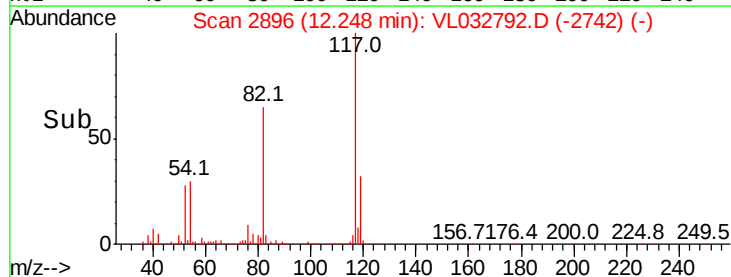
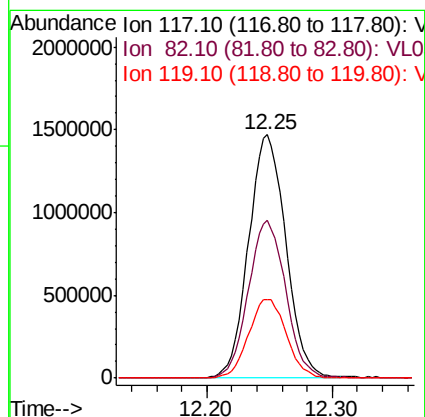
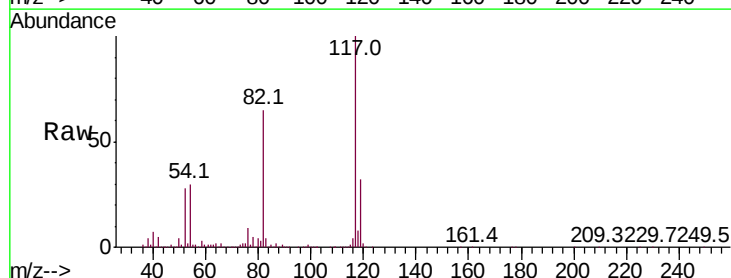
Tgt Ion: 117 Resp: 3047247

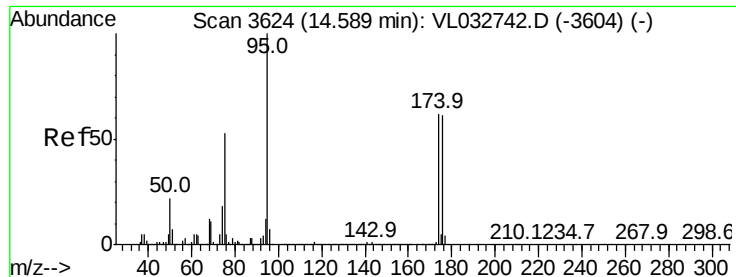
Ion Ratio Lower Upper

117 100

82 65.4 51.0 76.6

119 33.0 28.0 42.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.004 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032792.D

Acq: 20 Nov 2018 23:58

Instrument :

MSVOA_L

ClientSampleId :

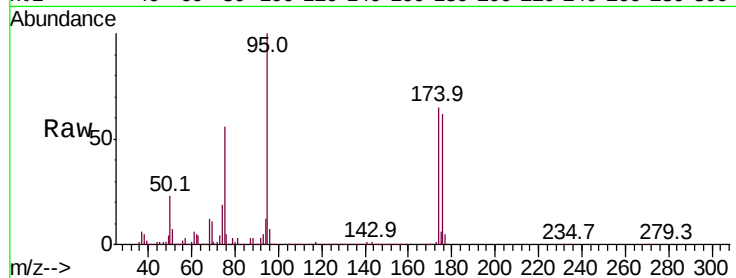
Tot Ion: 95 Resp: 2280204

Ion Ratio Lower Upper

95 100

174 67.2 50.7 76.1

175 5.0 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

