

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033907.D
 Acq On : 13 Jun 2019 21:22
 Operator : SY/AP
 Sample : K3357-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2R-20190612DL

Quant Time: Jun 14 07:09:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	858257	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	1970389	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	2131411	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1683785	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

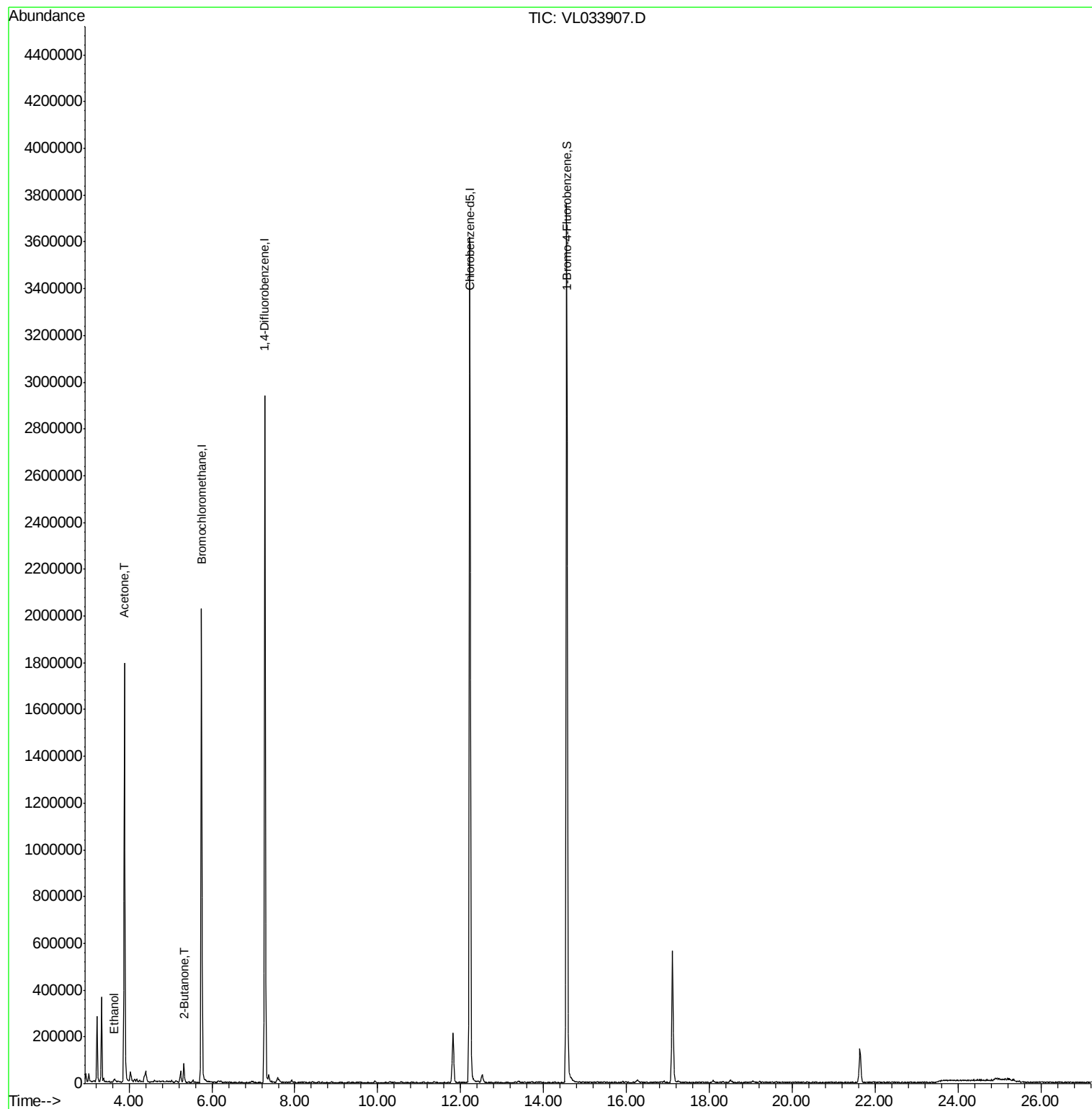
Target Compounds					Ovalue
13) Ethanol	3.65	45	12107	0.984	ppbv 96
15) Acetone	3.89	43	1750247	13.983	ppbv 97
34) 2-Butanone	5.32	43	87992	0.792	ppbv 97

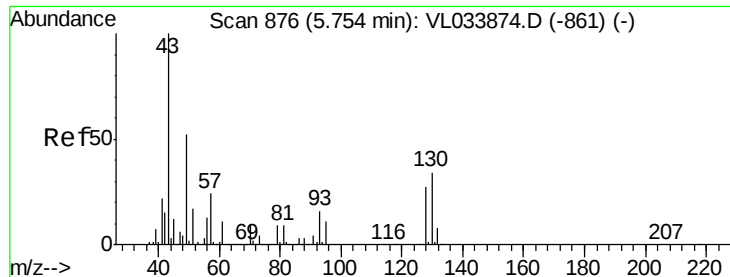
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033907.D

Acq: 13 Jun 2019 21:22

Instrument :

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ClientSampleId :

SG-2R-20190612DL

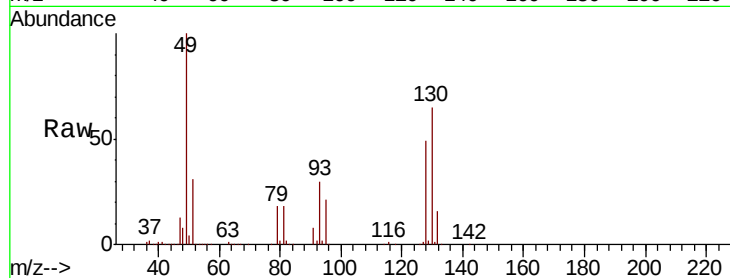
Tot Ion: 49 Resp: 858257

Ion Ratio Lower Upper

49 100

128 50.1 25.5 76.5

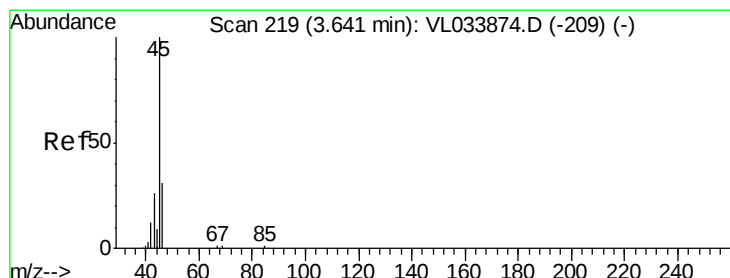
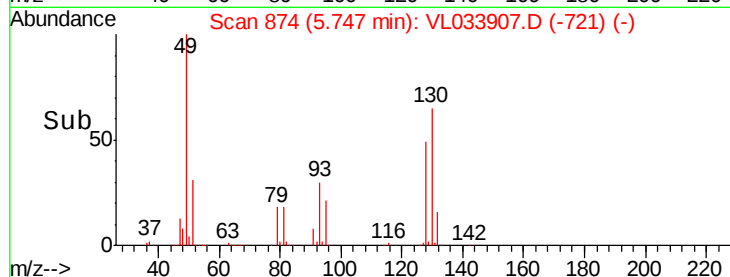
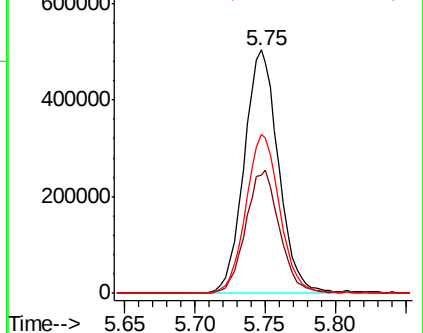
130 64.9 32.5 97.4



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



#13

Ethanol

Concen: 0.984 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.01 min

Lab File: VL033907.D

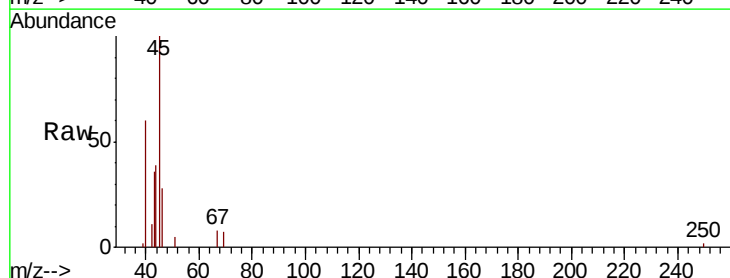
Acq: 13 Jun 2019 21:22

Tgt Ion: 45 Resp: 12107

Ion Ratio Lower Upper

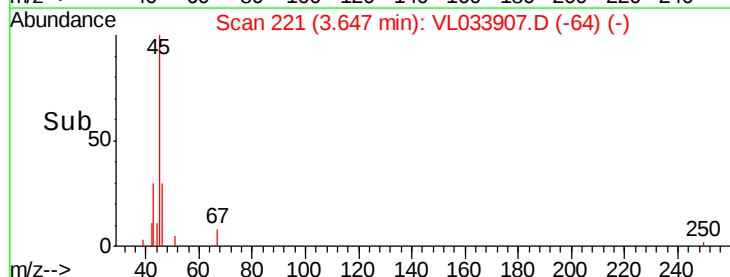
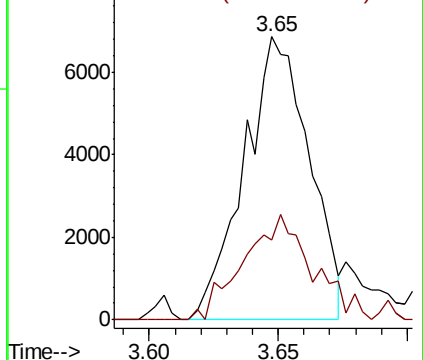
45 100

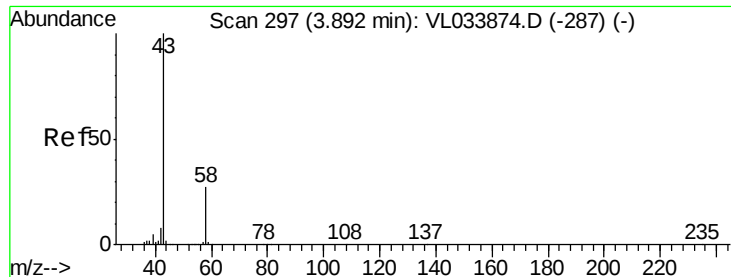
46 40.6 15.3 61.1



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 13.983 ppbv

RT: 3.89 min Scan# 295

Delta R.T. -0.01 min

Lab File: VL033907.D

Acq: 13 Jun 2019 21:22

Instrument :

MSVOA_L

ClientSampleId :

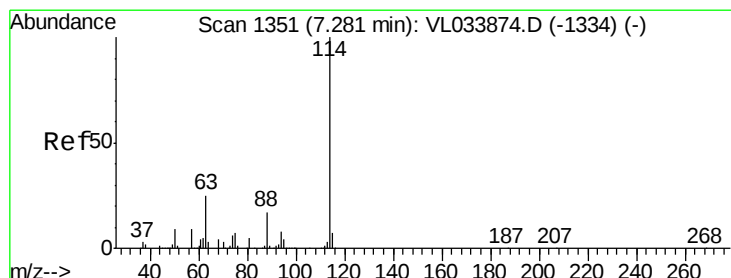
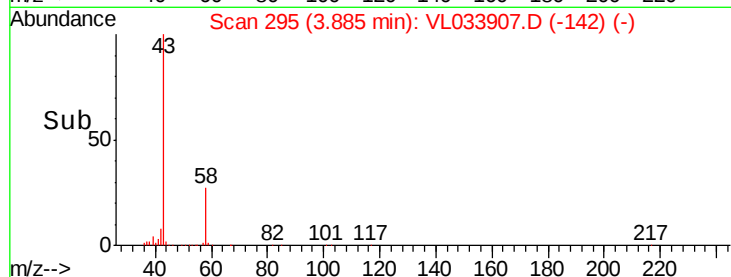
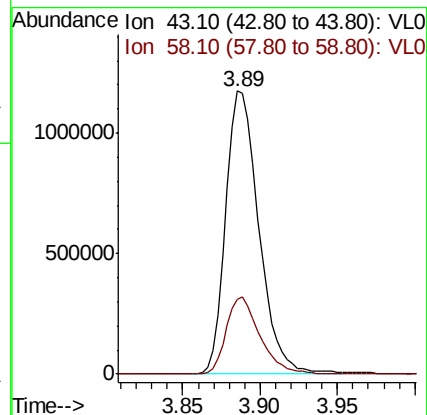
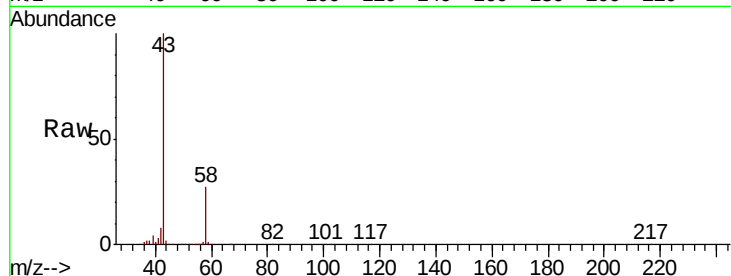
SG-2R-20190612DL

Tot Ion: 43 Resp: 1750247

Ion Ratio Lower Upper

43 100

58 28.0 21.3 31.9



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.27 min Scan# 1349

Delta R.T. -0.01 min

Lab File: VL033907.D

Acq: 13 Jun 2019 21:22

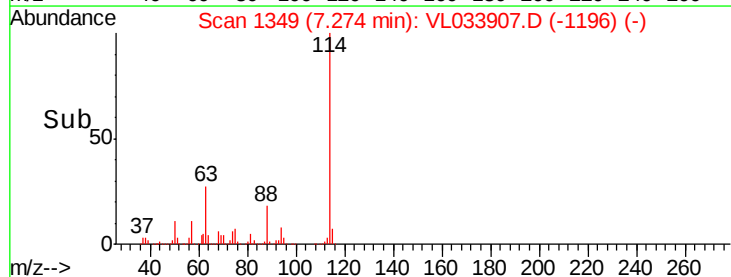
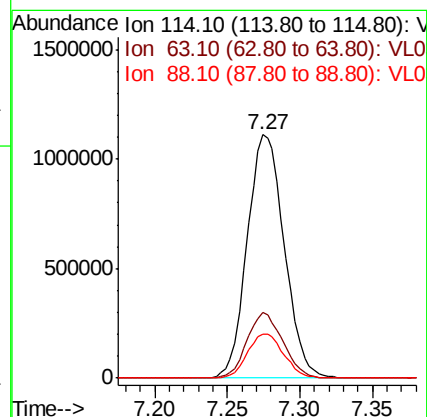
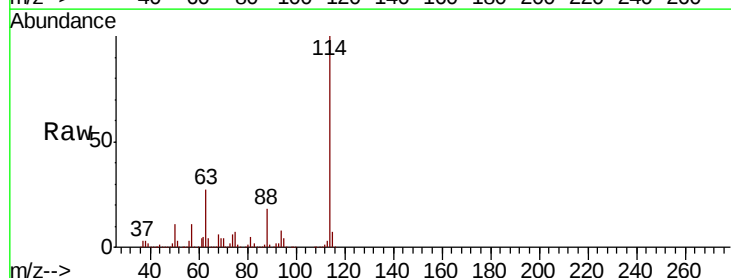
Tgt Ion: 114 Resp: 1970389

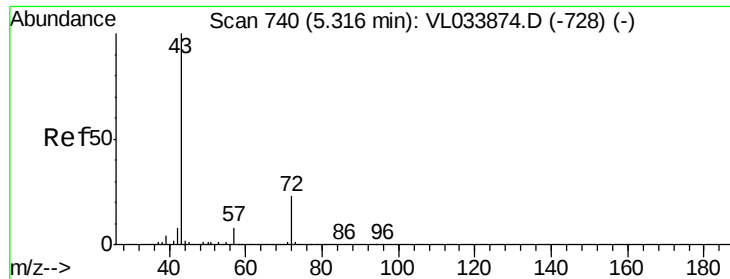
Ion Ratio Lower Upper

114 100

63 26.2 21.1 31.7

88 17.9 14.2 21.4

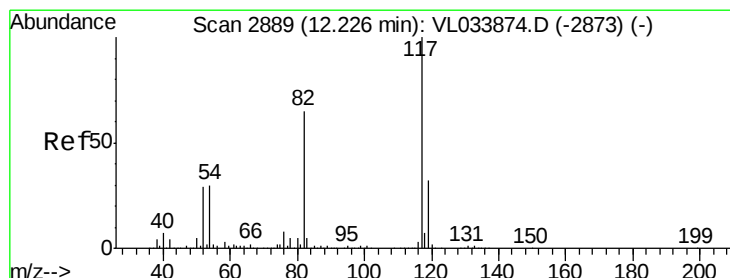
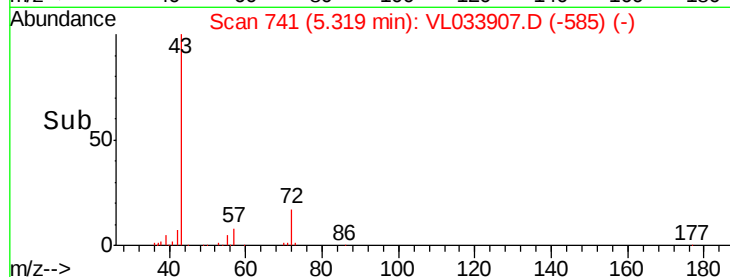
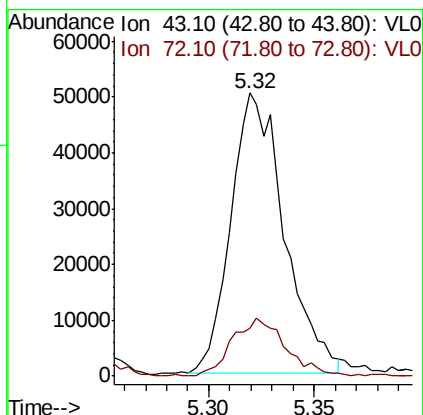
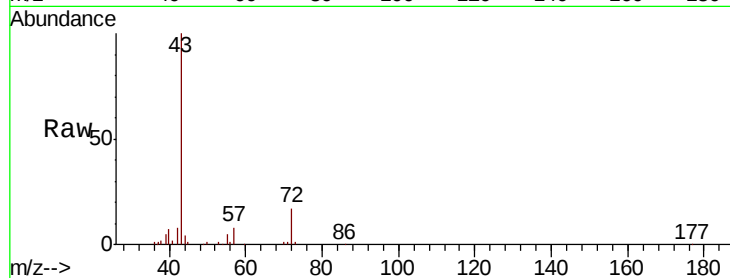




#34
 2-Butanone
 Concen: 0.792 ppbv
 RT: 5.32 min Scan# 741
 Delta R.T. 0.00 min
 Lab File: VL033907.D
 Acq: 13 Jun 2019 21:22

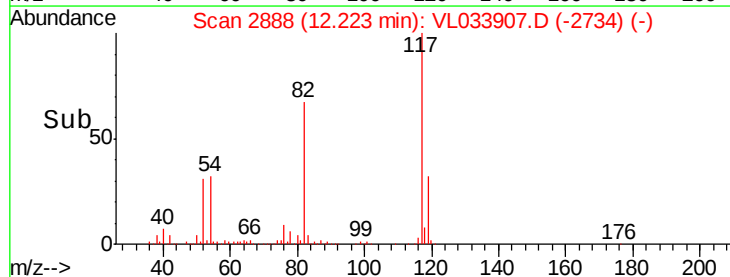
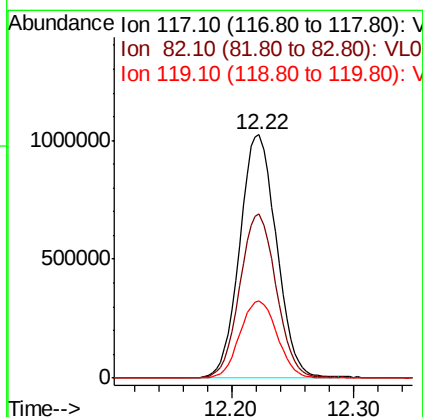
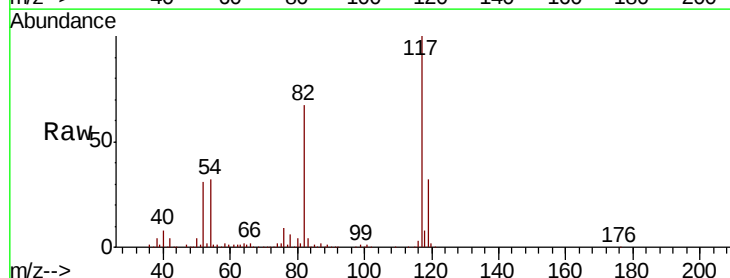
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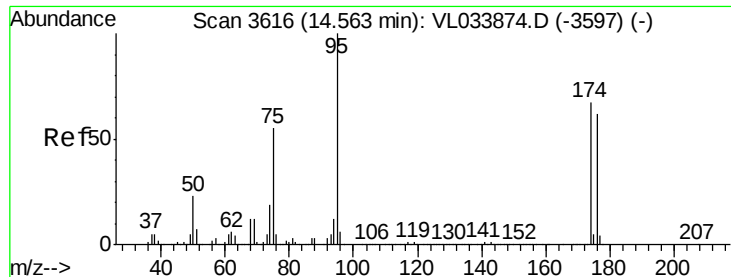
Tot Ion: 43 Resp: 87992
 Ion Ratio Lower Upper
 43 100
 72 21.1 17.9 26.9



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.22 min Scan# 2888
 Delta R.T. -0.00 min
 Lab File: VL033907.D
 Acq: 13 Jun 2019 21:22

Tgt Ion: 117 Resp: 2131411
 Ion Ratio Lower Upper
 117 100
 82 67.3 50.2 75.2
 119 32.3 24.8 37.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.618 ppbv

RT: 14.56 min Scan# 3614

Delta R.T. -0.01 min

Lab File: VL033907.D

Acq: 13 Jun 2019 21:22

Instrument :

MSVOA_L

ClientSampleId :

SG-2R-20190612DL

Tot Ion: 95 Resp: 1683785

Ion Ratio Lower Upper

95 100

174 65.2 54.0 81.0

175 4.6 3.8 5.8

