

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033226.D
 Acq On : 15 Feb 2019 11:03
 Operator : SY/AP
 Sample : K1483-04DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MIDDLE

Quant Time: Feb 18 11:19:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	705947	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1601913	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1887851	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1524370	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

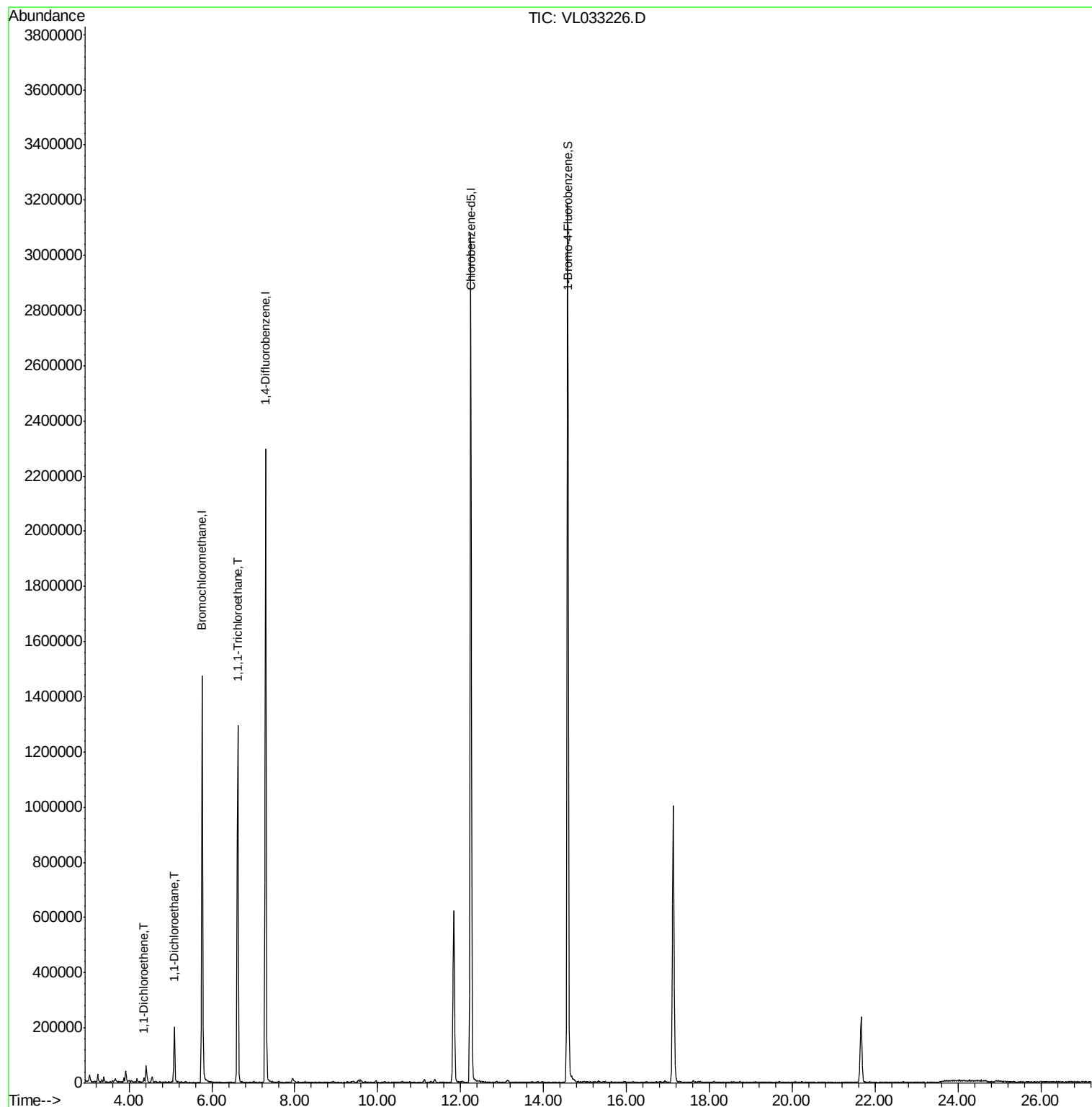
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
18) 1,1-Dichloroethene	4.36	96	4181m	0.123	ppbv	
24) 1,1-Dichloroethane	5.09	63	159427	1.635	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	792450	5.594	ppbv	97

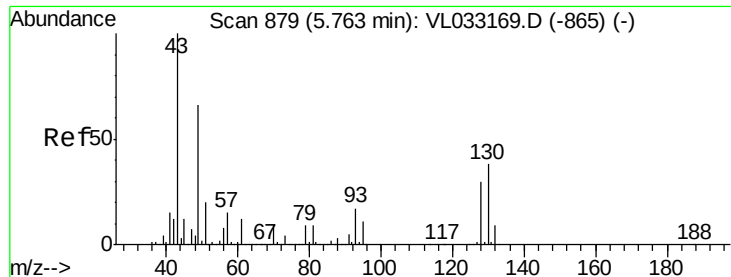
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033226.D

Acq: 15 Feb 2019 11:03

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

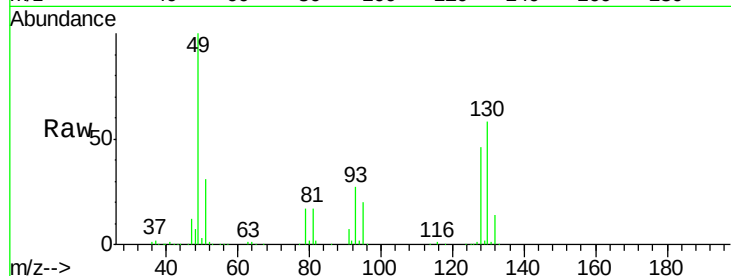
Tot Ion: 49 Resp: 705947

Ion Ratio Lower Upper

49 100

128 46.2 23.6 71.0

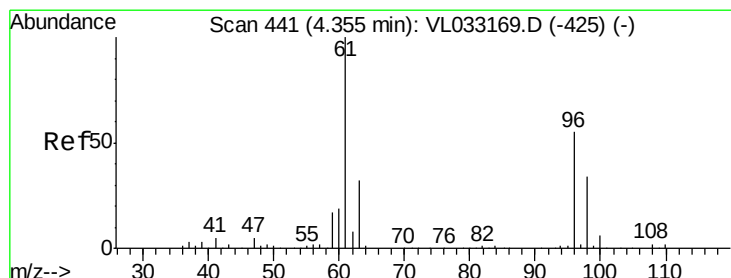
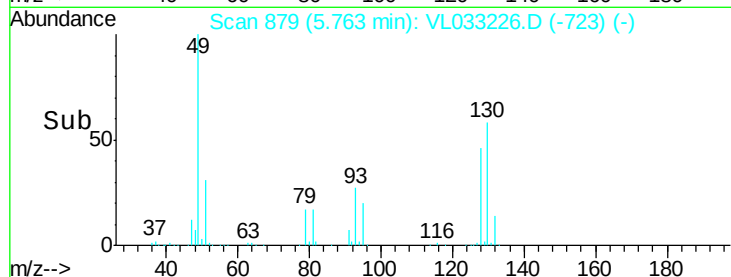
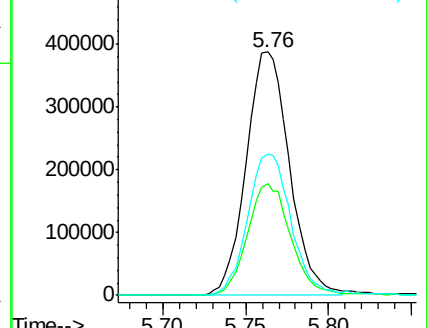
130 59.1 30.3 91.0



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



#18

1,1-Dichloroethene

Concen: 0.123 ppbv m

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033226.D

Acq: 15 Feb 2019 11:03

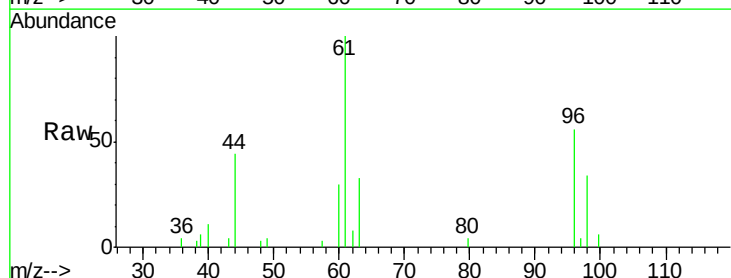
Tgt Ion: 96 Resp: 4181

Ion Ratio Lower Upper

96 100

61 178.6 145.0 217.6

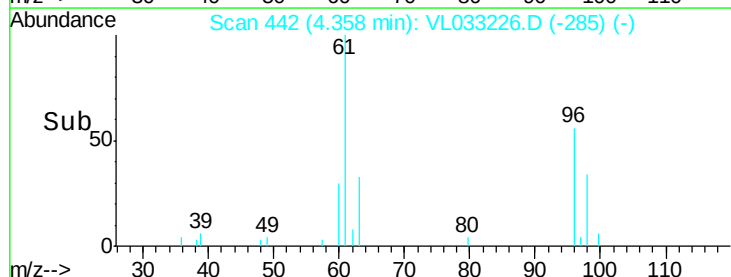
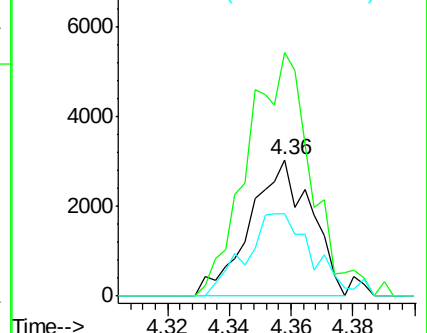
98 60.4 50.0 75.0

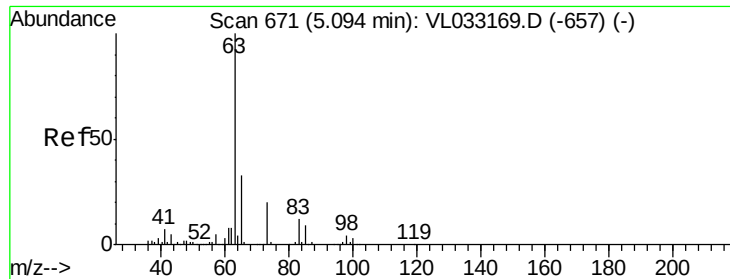


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#24

1,1-Dichloroethane

Concen: 1.635 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033226.D

Acq: 15 Feb 2019 11:03

Instrument :

MSVOA_L

ClientSampled :

MIDDLE

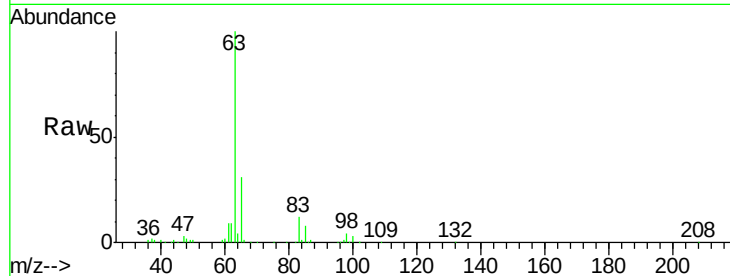
Tot Ion: 63 Resp: 159427

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.5

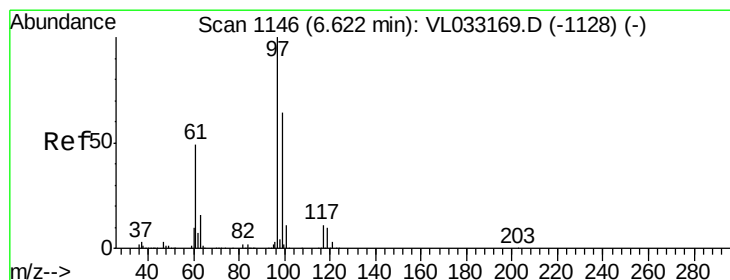
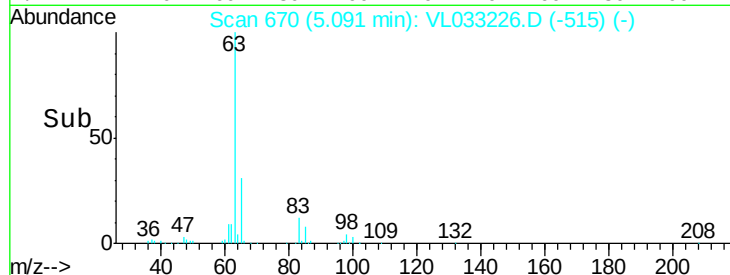
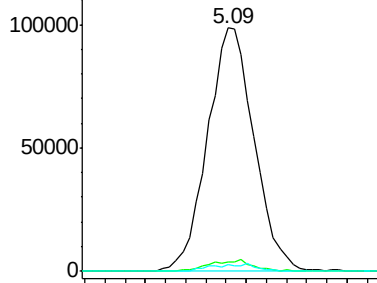
100 2.8 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#32

1,1,1-Trichloroethane

Concen: 5.594 ppbv

RT: 6.62 min Scan# 1146

Delta R.T. -0.00 min

Lab File: VL033226.D

Acq: 15 Feb 2019 11:03

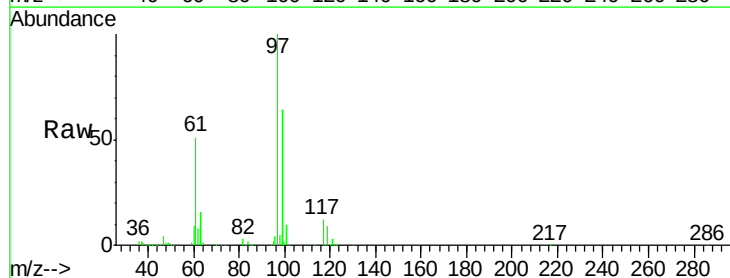
Tgt Ion: 97 Resp: 792450

Ion Ratio Lower Upper

97 100

99 63.9 51.4 77.2

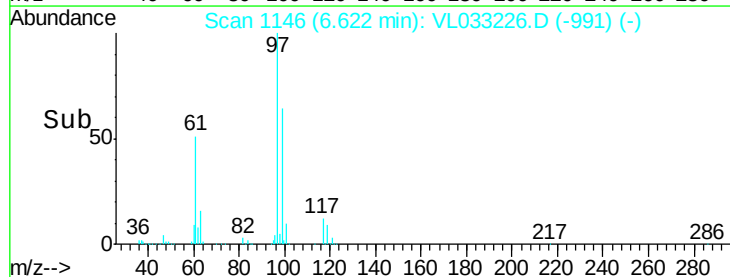
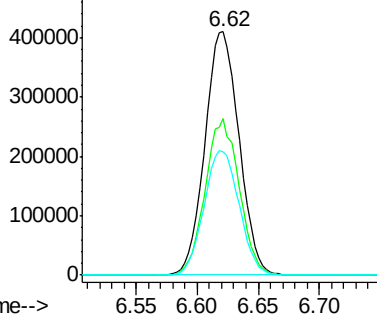
61 52.7 38.9 58.3

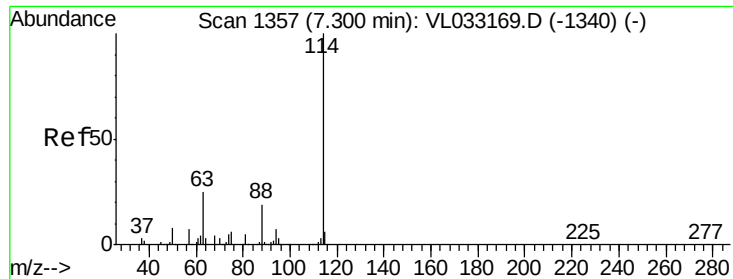


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

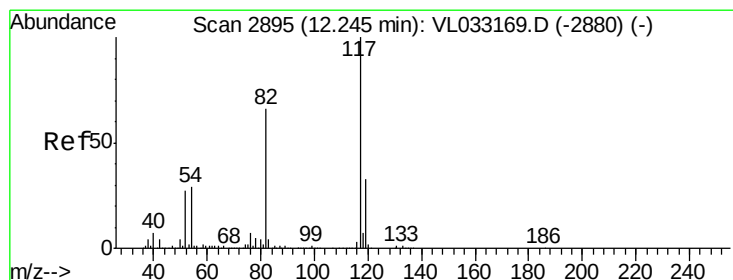
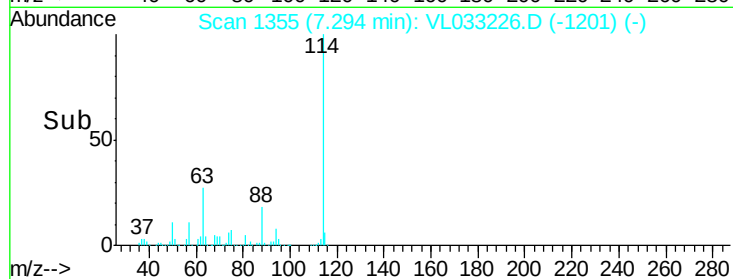
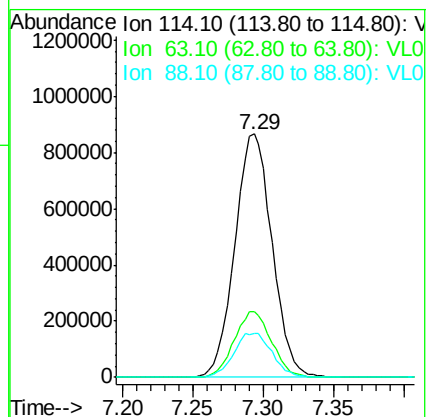
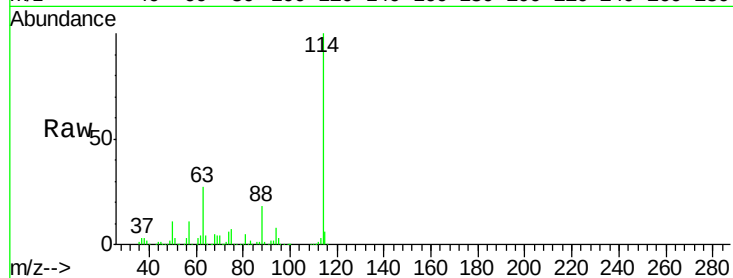




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033226.D
 Acq: 15 Feb 2019 11:03

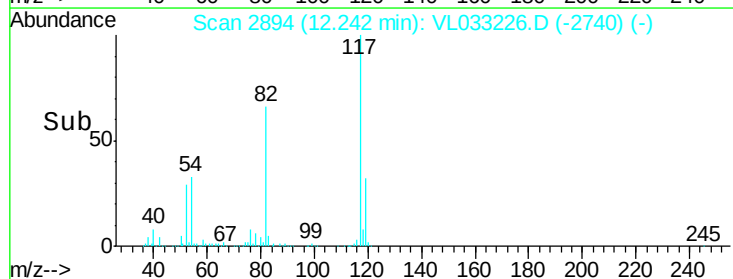
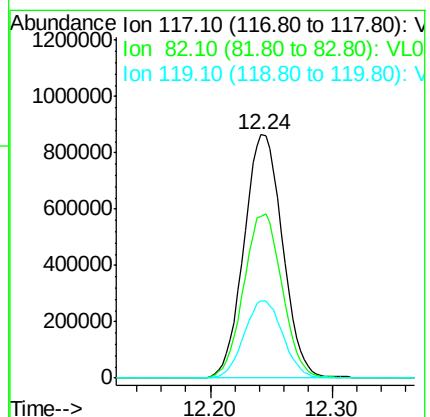
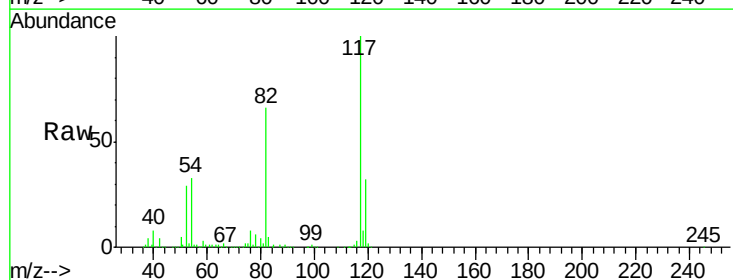
Instrument :
 MSVOA_L
 ClientSampled :
 MIDDLE

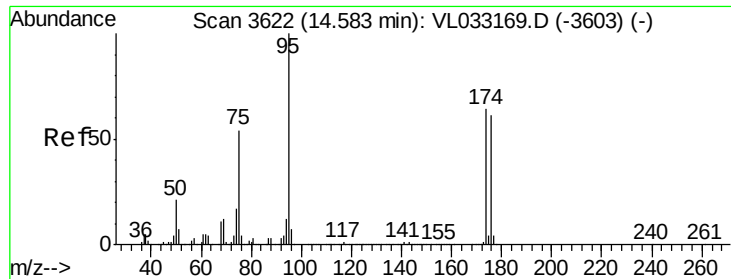
Tot Ion:114 Resp: 1601913
 Ion Ratio Lower Upper
 114 100
 63 27.2 20.8 31.2
 88 18.8 14.6 22.0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.24 min Scan# 2894
 Delta R.T. -0.00 min
 Lab File: VL033226.D
 Acq: 15 Feb 2019 11:03

Tgt Ion:117 Resp: 1887851
 Ion Ratio Lower Upper
 117 100
 82 67.7 49.5 74.3
 119 32.2 24.4 36.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.485 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033226.D

Acq: 15 Feb 2019 11:03

Instrument :

MSVOA_L

ClientSampleId :

MIDDLE

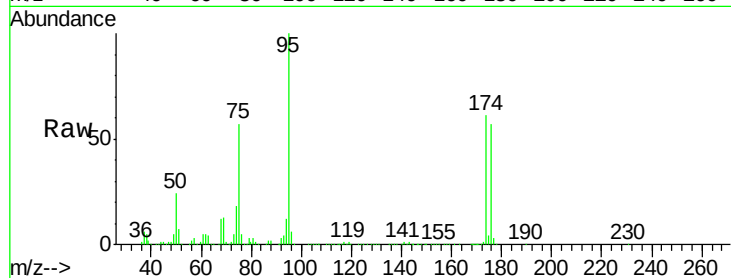
Tot Ion: 95 Resp: 1524370

Ion Ratio Lower Upper

95 100

174 63.0 51.2 76.8

175 4.4 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

