

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033229.D
 Acq On : 15 Feb 2019 12:57
 Operator : SY/AP
 Sample : K1483-10DL 100X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-BDL

Quant Time: Feb 16 05:37:38 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	700267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1531674	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1593784	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1510643	12.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	123.10%

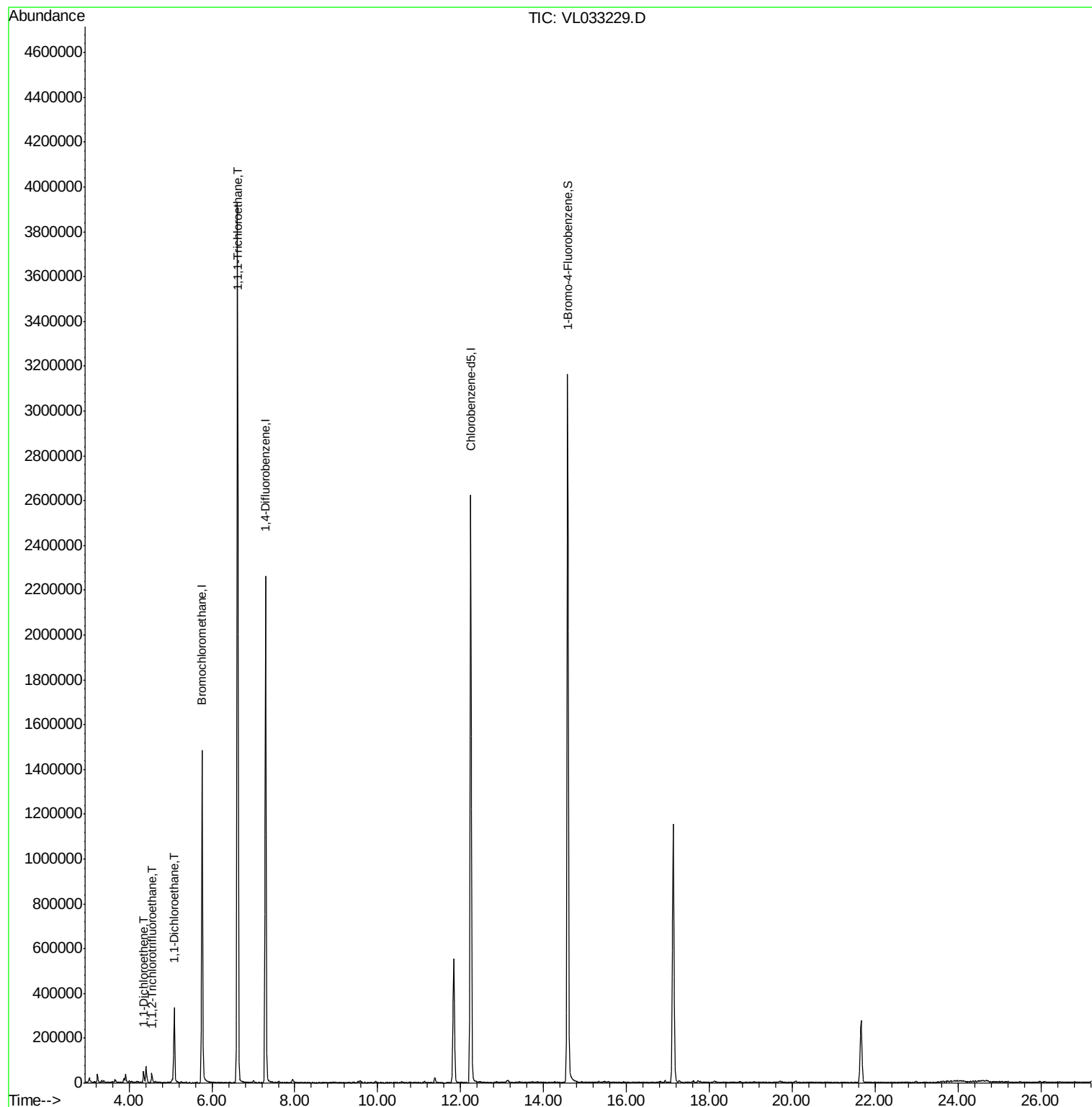
Target Compounds					Ovalue
12) 1,1,2-Trichlorotrifluoroet	4.55	101	12471	0.166 ppbv	92
18) 1,1-Dichloroethene	4.35	96	13904	0.413 ppbv #	75
24) 1,1-Dichloroethane	5.09	63	265982	2.750 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2488491	17.709 ppbv	99

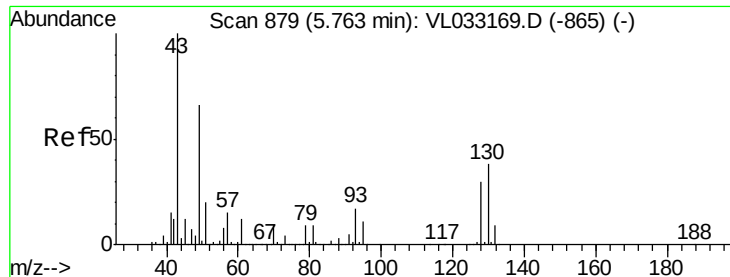
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Instrument :

MSVOA_L

ClientSampleId :

ZONE-BDL

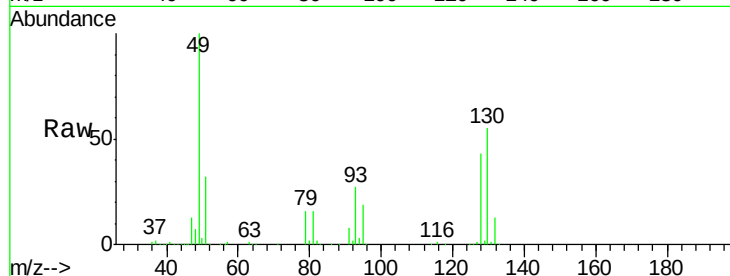
Tot Ion: 49 Resp: 700267

Ion Ratio Lower Upper

49 100

128 45.0 23.6 71.0

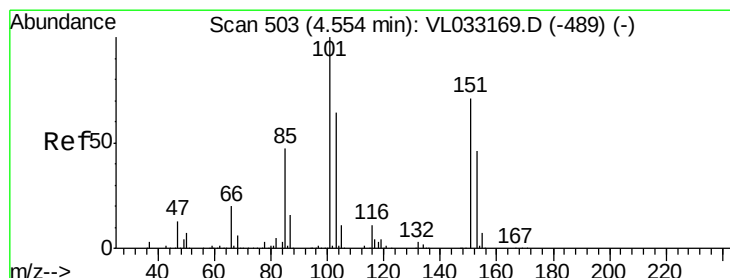
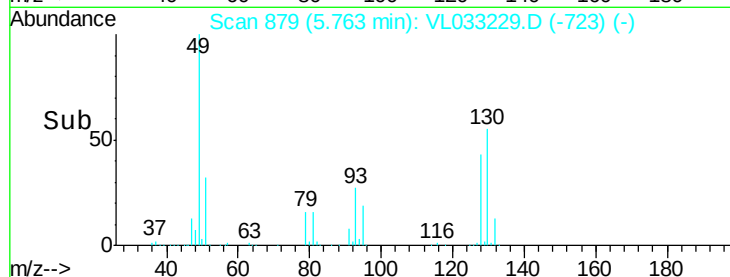
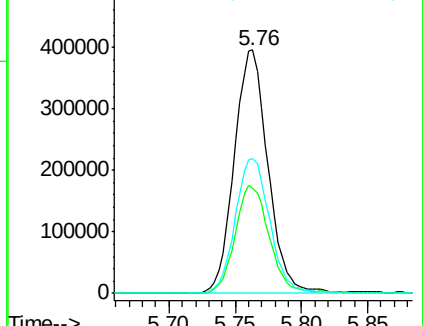
130 57.3 30.3 91.0



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



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.166 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033229.D

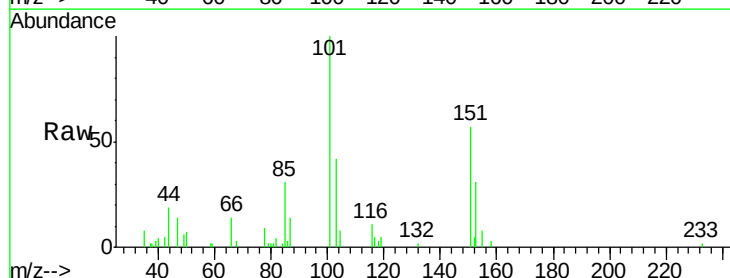
Acq: 15 Feb 2019 12:57

Tgt Ion:101 Resp: 12471

Ion Ratio Lower Upper

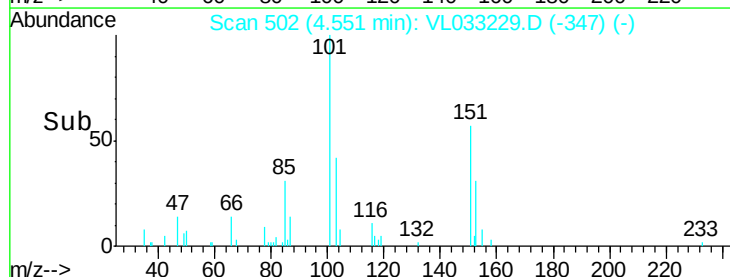
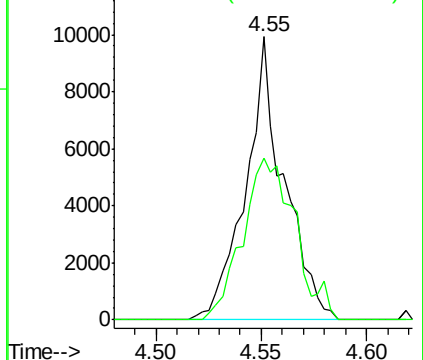
101 100

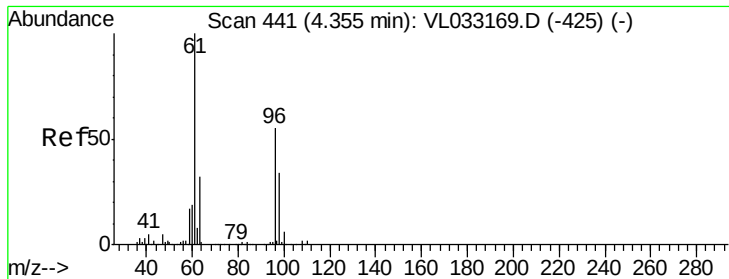
151 78.7 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

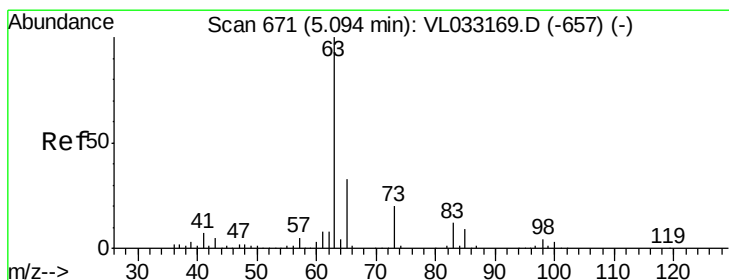
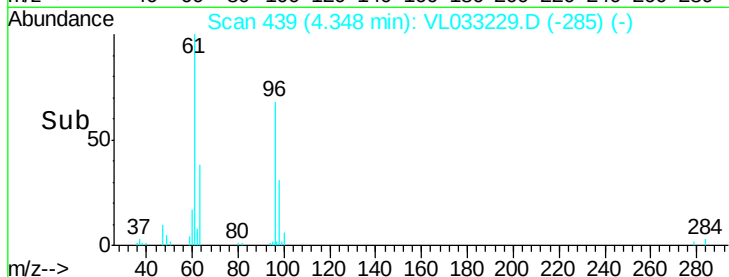
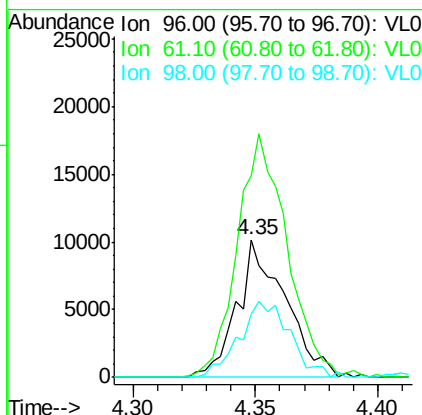
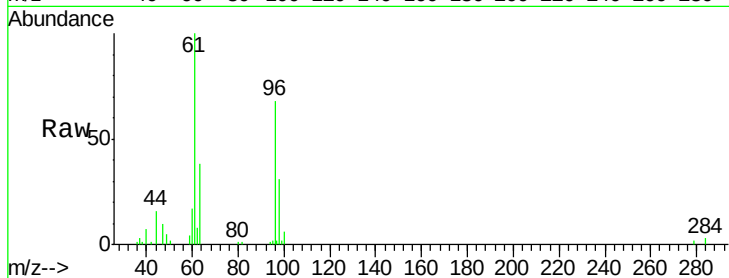




#18
 1,1-Dichloroethene
 Concen: 0.413 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.01 min
 Lab File: VL033229.D
 Acq: 15 Feb 2019 12:57

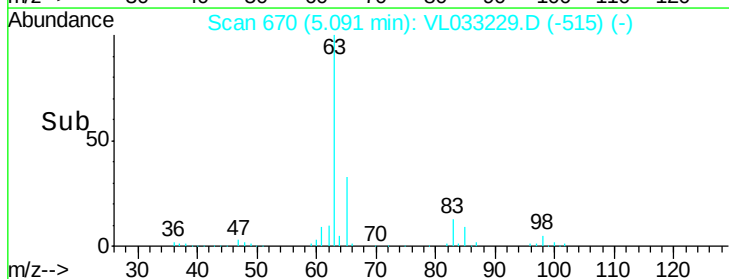
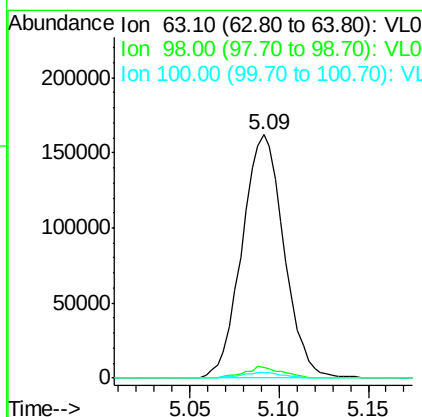
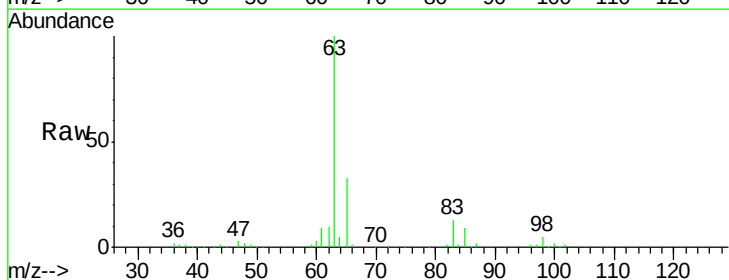
Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-BDL

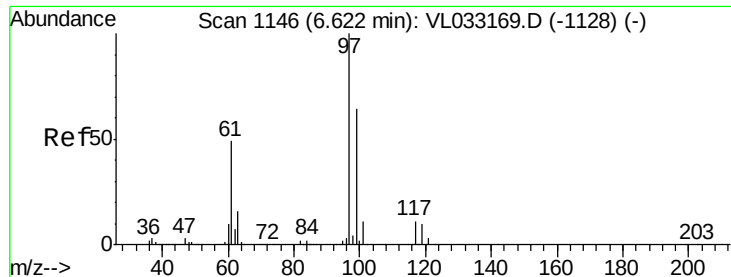
Tot Ion: 96 Resp: 13904
 Ion Ratio Lower Upper
 96 100
 61 144.7 145.0 217.6#
 98 45.8 50.0 75.0#



#24
 1,1-Dichloroethane
 Concen: 2.750 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VL033229.D
 Acq: 15 Feb 2019 12:57

Tgt Ion: 63 Resp: 265982
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.1 6.5
 100 2.5 1.4 4.2





#32

1,1,1-Trichloroethane

Concen: 17.709 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Instrument :

MSVOA_L

ClientSampleId :

ZONE-BDL

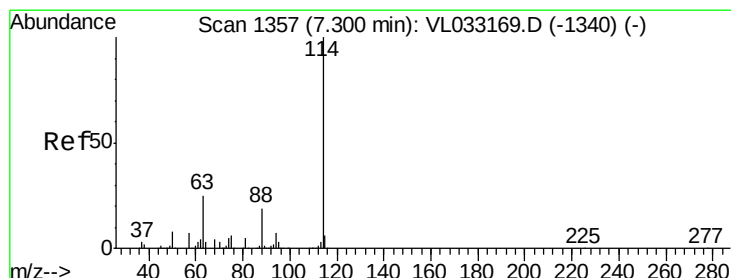
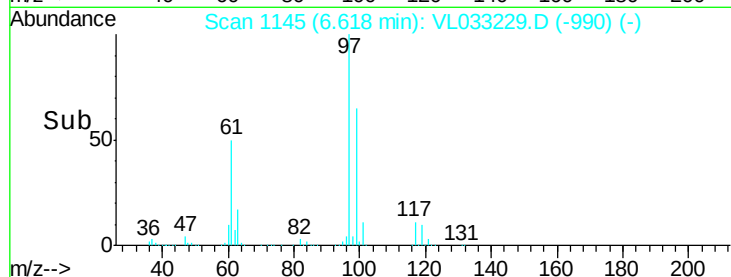
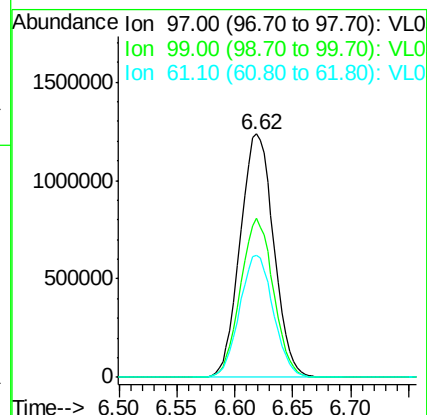
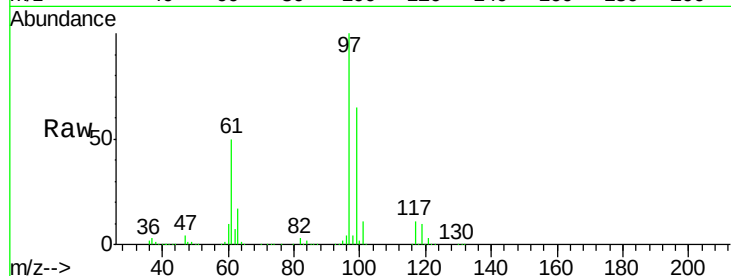
Tot Ion: 97 Resp: 2488491

Ion Ratio Lower Upper

97 100

99 63.9 51.4 77.2

61 50.2 38.9 58.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

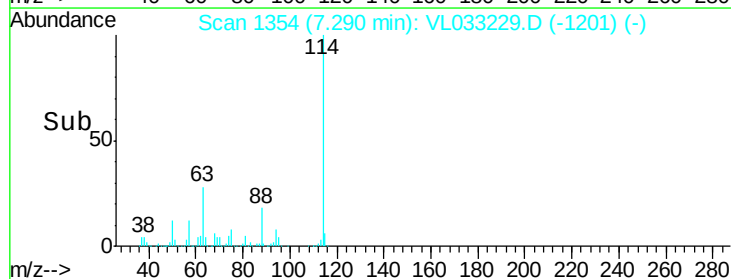
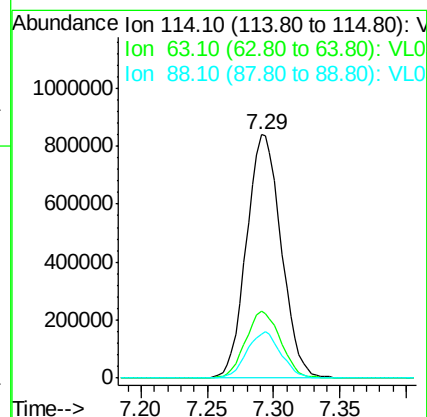
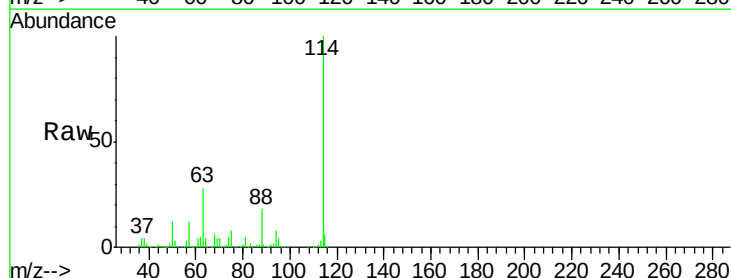
Tgt Ion: 114 Resp: 1531674

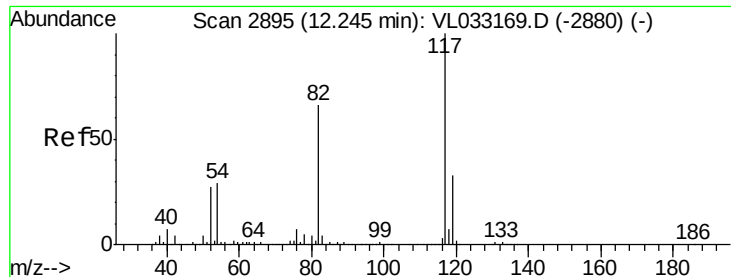
Ion Ratio Lower Upper

114 100

63 27.9 20.8 31.2

88 18.6 14.6 22.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

Instrument :

MSVOA_L

ClientSampleId :

ZONE-BDL

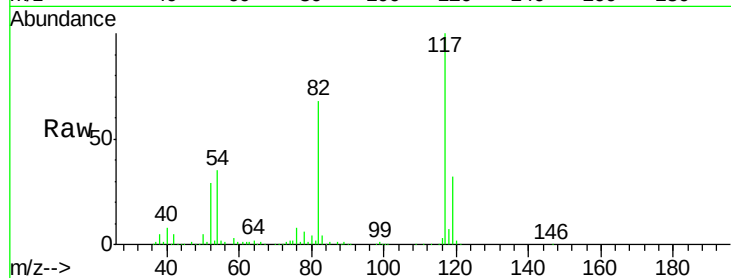
Tot Ion:117 Resp: 1593784

Ion Ratio Lower Upper

117 100

82 68.9 49.5 74.3

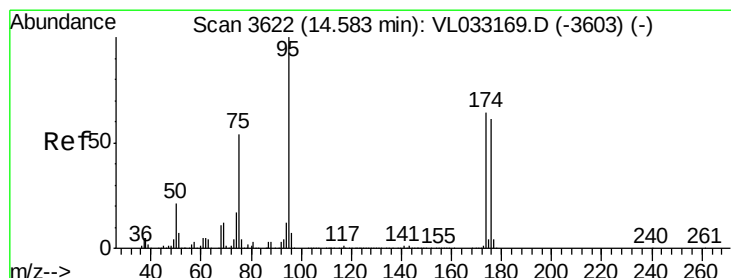
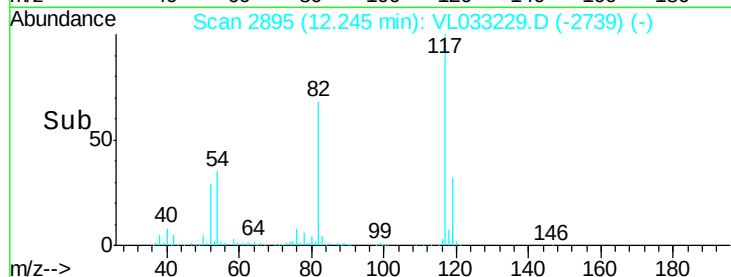
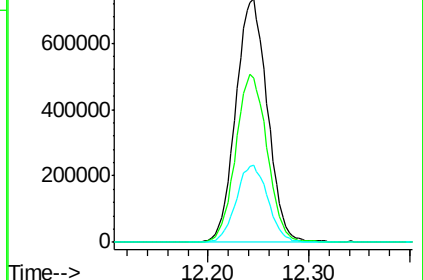
119 31.7 24.4 36.6



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 12.307 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. 0.00 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

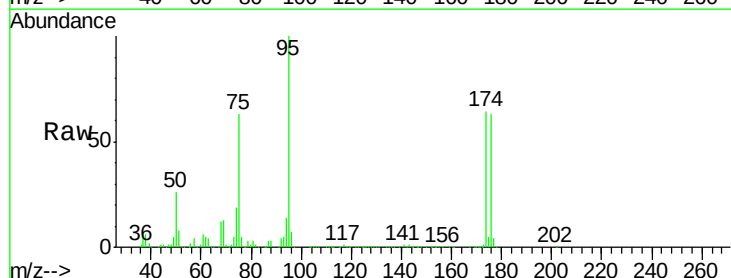
Tgt Ion: 95 Resp: 1510643

Ion Ratio Lower Upper

95 100

174 63.2 51.2 76.8

175 4.5 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

