

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

Quant Time: Feb 21 02:40:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019
 QLast Update : Wed Feb 20 06:00:52 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

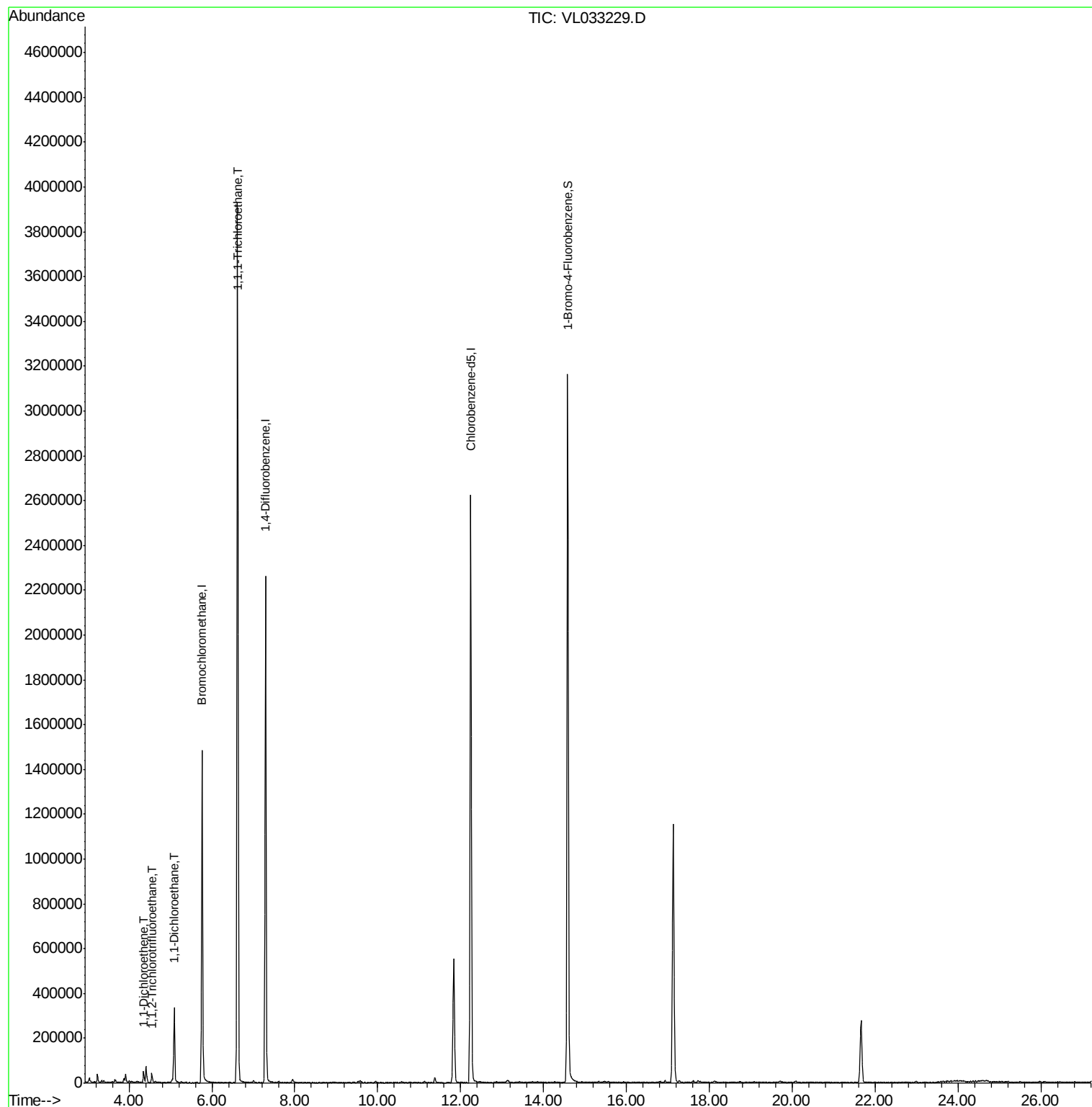
68) 1-Bromo-4-Fluorobenzene	14.58	95	1510643	12.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	121.60%

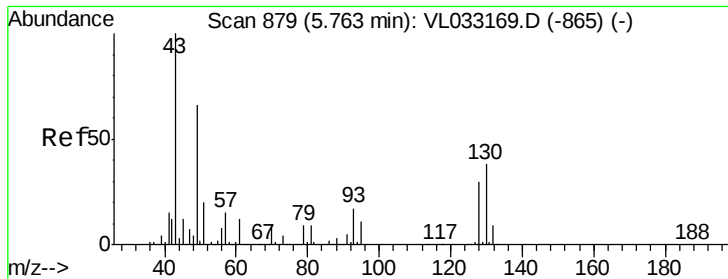
Target Compounds					Ovalue
12) 1,1,2-Trichlorotrifluoroet	4.55	101	12471	0.166 ppbv	92
18) 1,1-Dichloroethene	4.35	96	13904	0.413 ppbv #	75
24) 1,1-Dichloroethane	5.09	63	265982	2.750 ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2488491	17.709 ppbv	99

(#) = 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

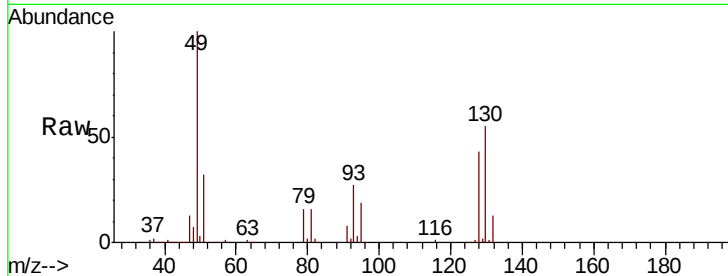
Tot Ion: 49 Resp: 700267

Ion	Ratio	Lower	Upper
49	100		
128	45.0	23.6	71.0
130	57.3	30.3	91.0

49 100

128 45.0 23.6 71.0

130 57.3 30.3 91.0



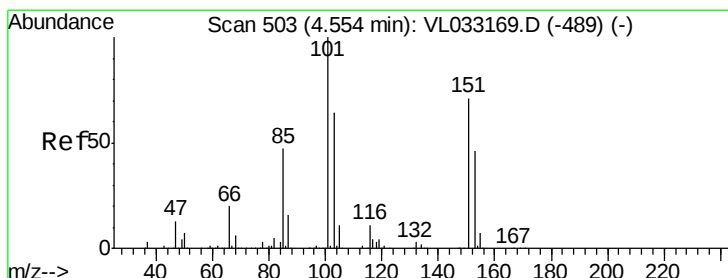
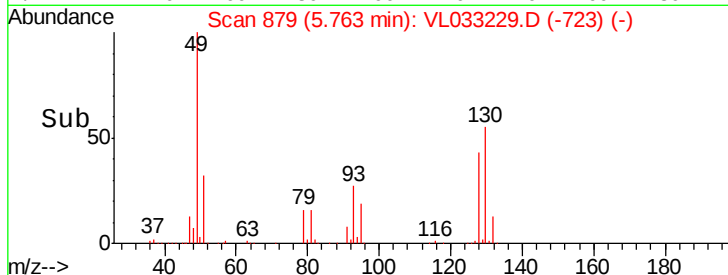
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.76

Time-->



#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

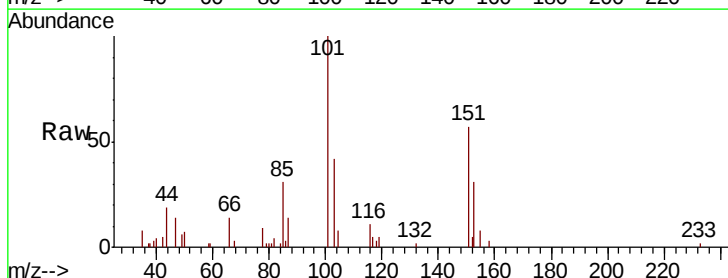
Acq: 15 Feb 2019 12:57

Tgt Ion:101 Resp: 12471

Ion	Ratio	Lower	Upper
101	100		
151	78.7	57.4	86.0

101 100

151 78.7 57.4 86.0

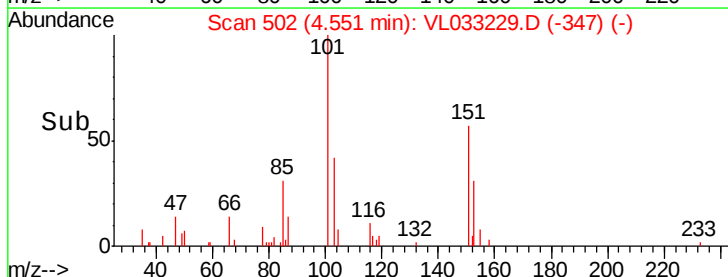


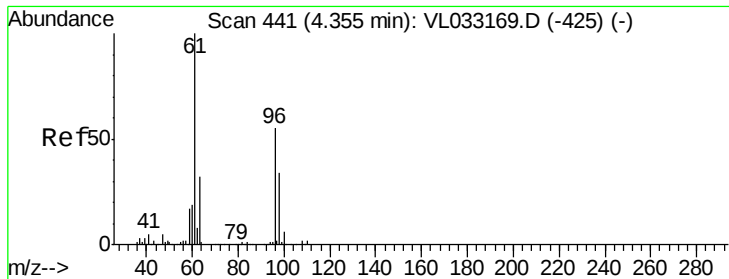
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.55

Time-->





#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

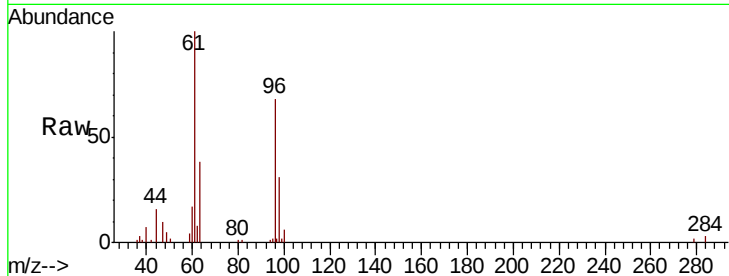
Tot Ion: 96 Resp: 13904

Ion Ratio Lower Upper

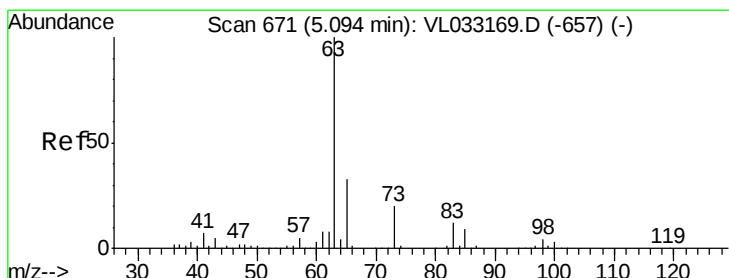
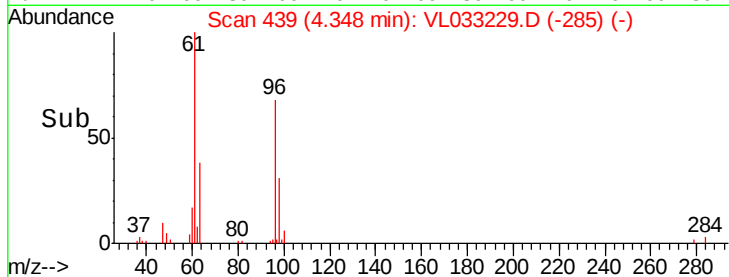
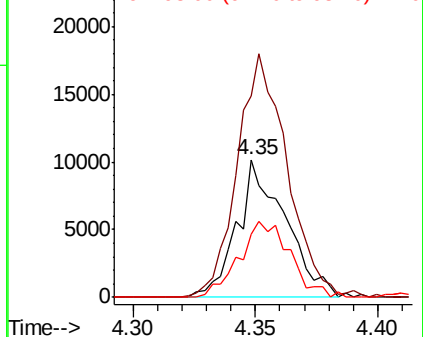
96 100

61 144.7 145.0 217.6#

98 45.8 50.0 75.0#



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: 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

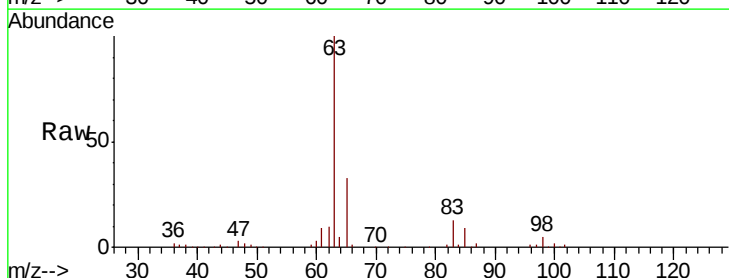
Tgt Ion: 63 Resp: 265982

Ion Ratio Lower Upper

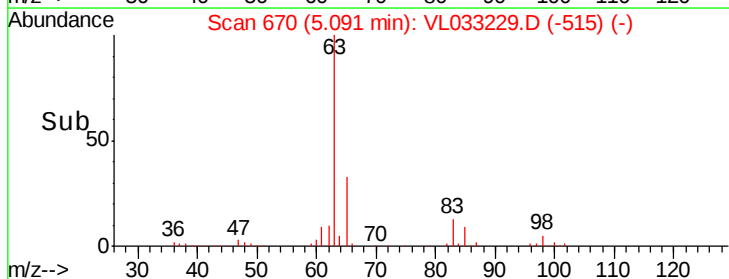
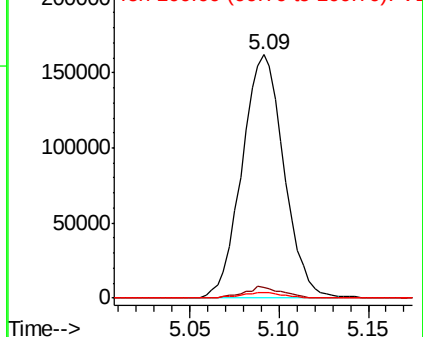
63 100

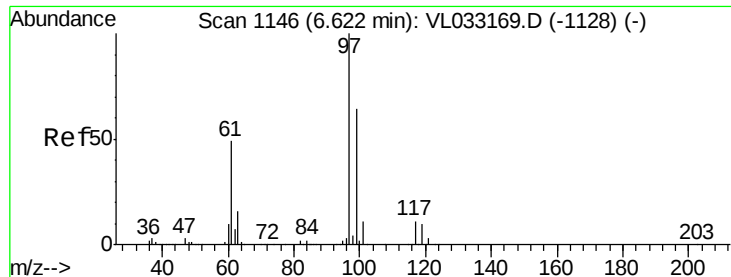
98 4.6 2.1 6.5

100 2.5 1.4 4.2



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: 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

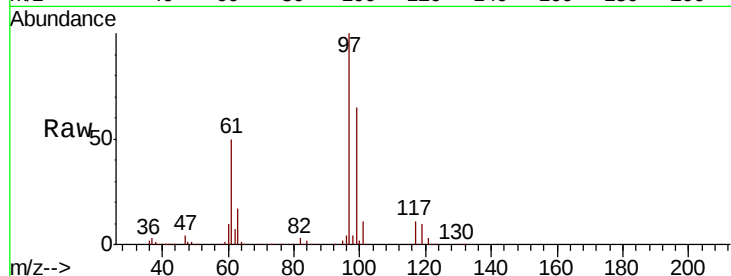
Tot Ion: 97 Resp: 2488491

Ion Ratio Lower Upper

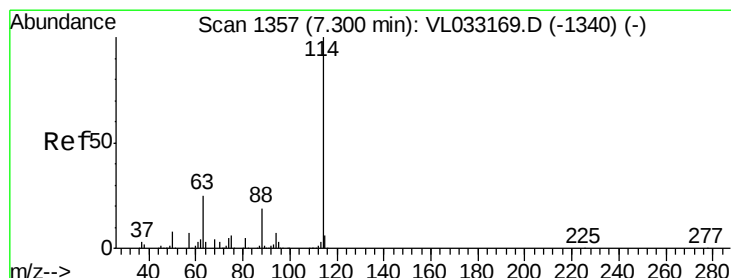
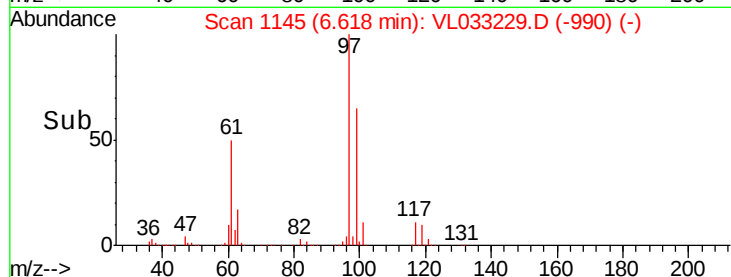
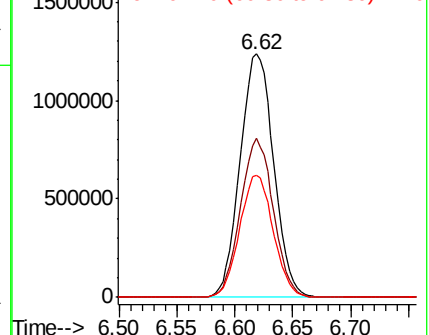
97 100

99 63.9 51.4 77.2

61 50.2 38.8 58.2



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# 1354

Delta R.T. -0.01 min

Lab File: VL033229.D

Acq: 15 Feb 2019 12:57

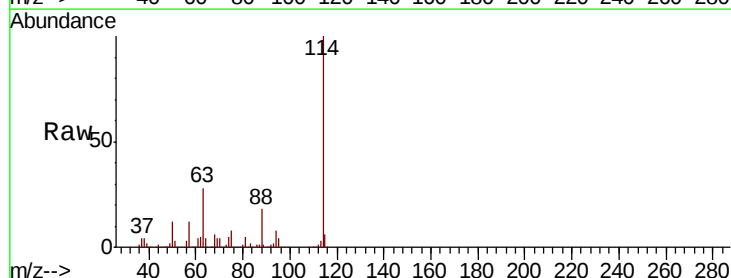
Tgt Ion: 114 Resp: 1531674

Ion Ratio Lower Upper

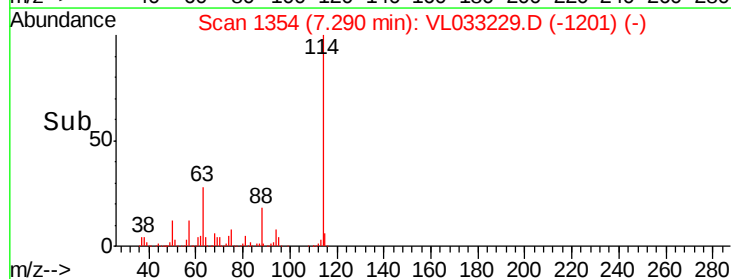
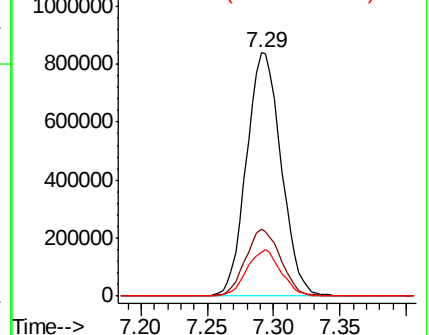
114 100

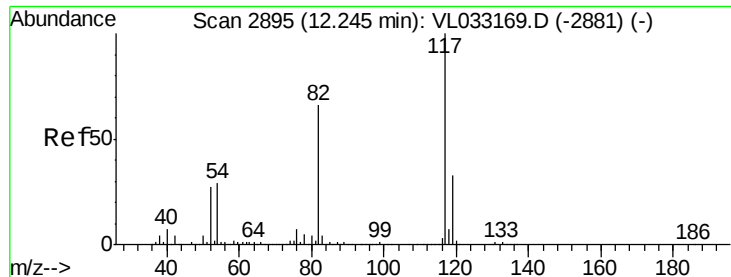
63 27.9 20.8 31.2

88 18.6 14.6 22.0



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

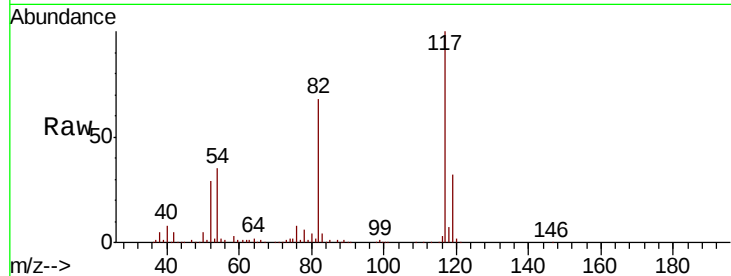




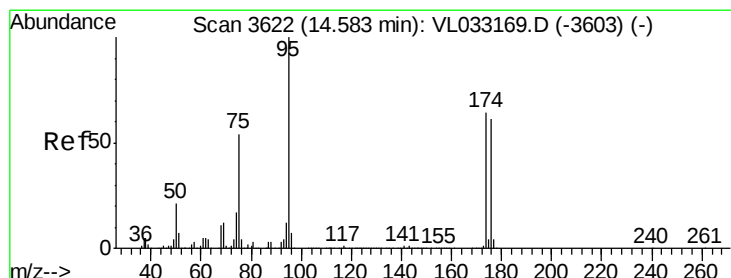
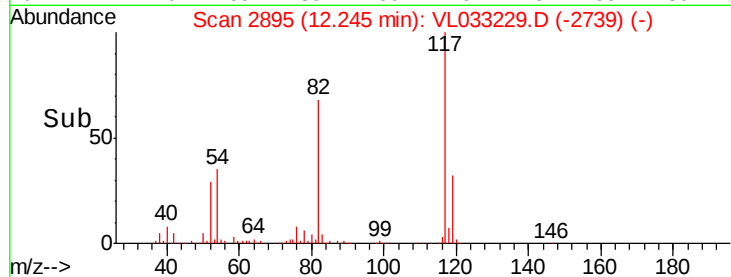
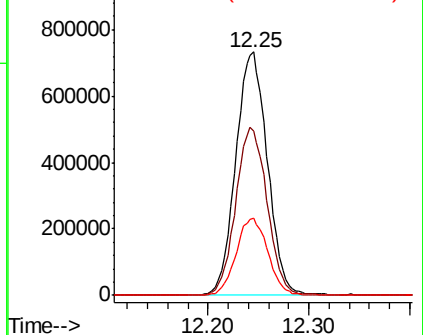
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL033229.D
Acq: 15 Feb 2019 12:57

Tot Ion:117 Resp: 1593784

Ion	Ratio	Lower	Upper
117	100		
82	68.9	53.8	80.8
119	31.7	46.9	70.3#



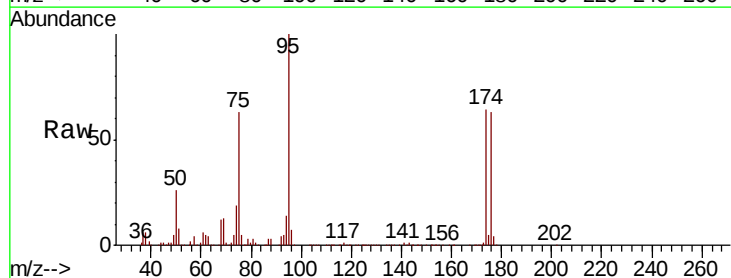
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 12.163 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	51.1	76.7
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

