

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033225.D
 Acq On : 15 Feb 2019 10:25
 Operator : SY/AP
 Sample : K1483-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 02:01:58 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	727956	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1928658	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1933823	10.00	ppbv	0.00

System Monitoring Compounds

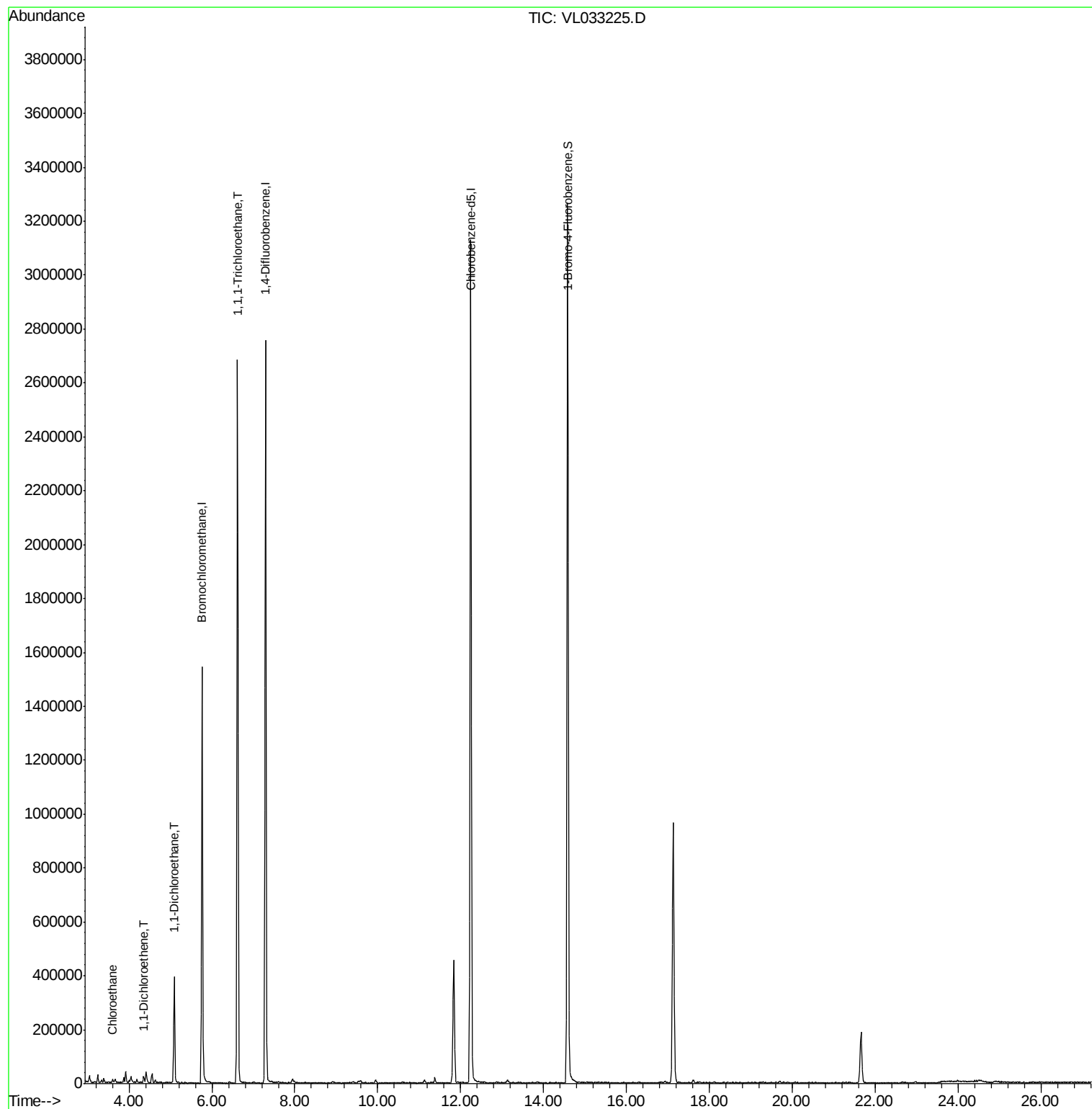
68) 1-Bromo-4-Fluorobenzene	14.58	95	1557780	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

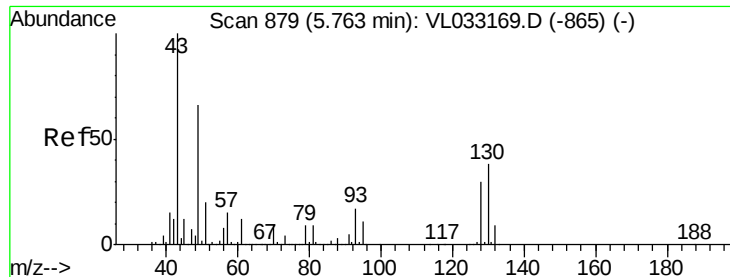
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.60	64	6482m	0.410	ppbv	
18) 1,1-Dichloroethene	4.35	96	6884	0.197	ppbv	# 85
24) 1,1-Dichloroethane	5.09	63	328410	3.266	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1679247	11.496	ppbv	98

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

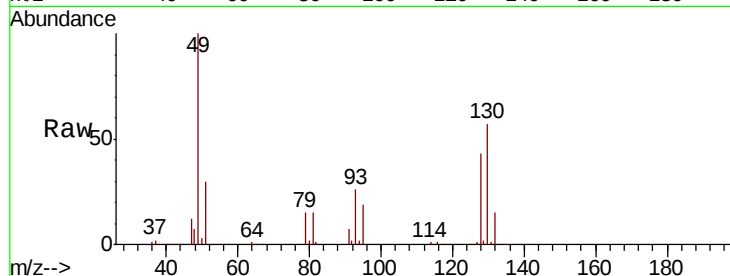
Tot Ion: 49 Resp: 727956

Ion Ratio Lower Upper

49 100

128 45.2 23.6 71.0

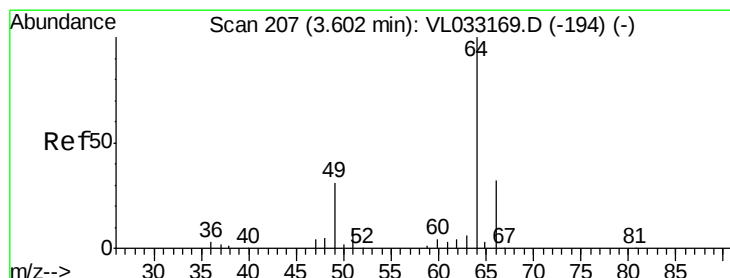
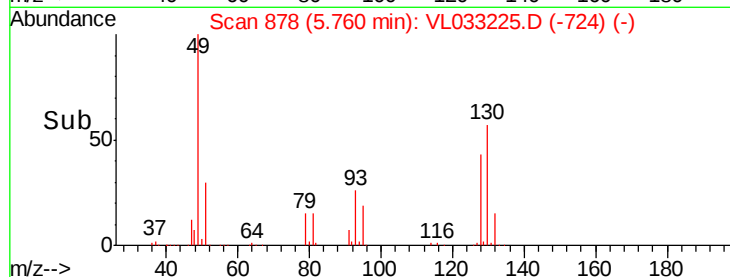
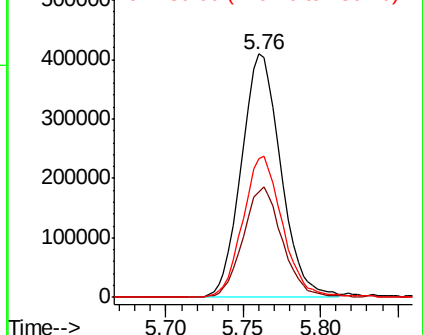
130 59.0 30.3 91.0



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



#7

Chloroethane

Concen: 0.410 ppbv m

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033225.D

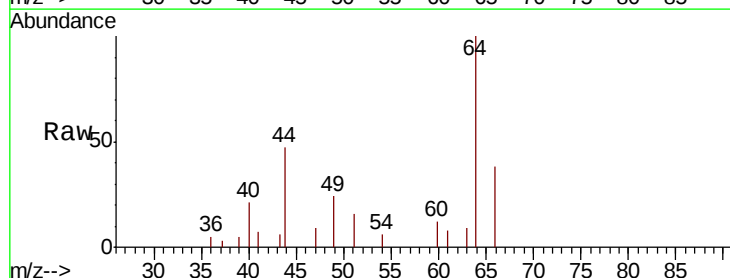
Acq: 15 Feb 2019 10:25

Tgt Ion: 64 Resp: 6482

Ion Ratio Lower Upper

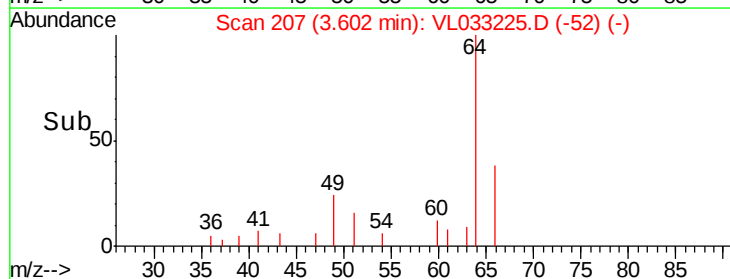
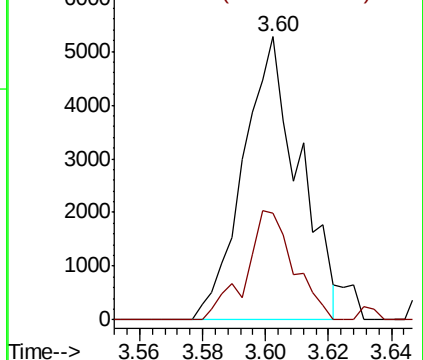
64 100

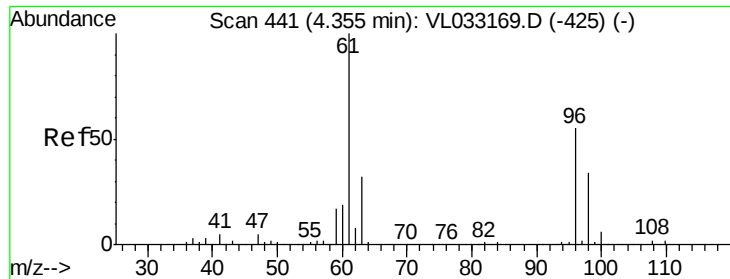
66 37.7 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#18

1,1-Dichloroethene

Concen: 0.197 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

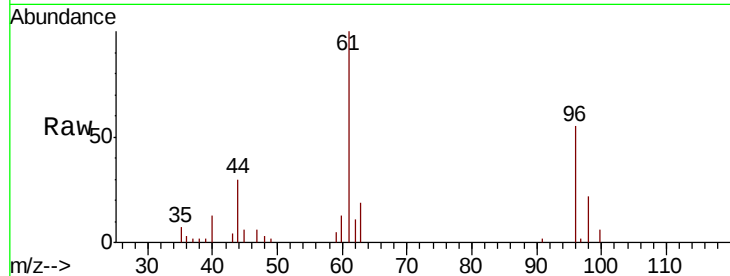
Tot Ion: 96 Resp: 6884

Ion Ratio Lower Upper

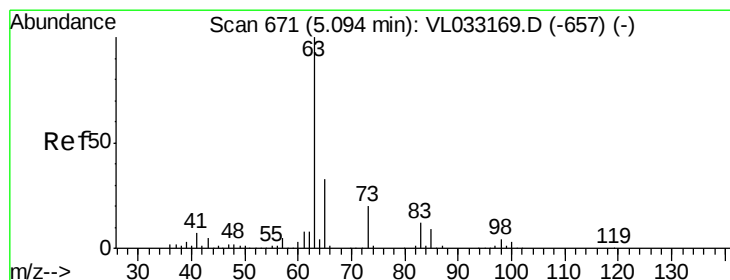
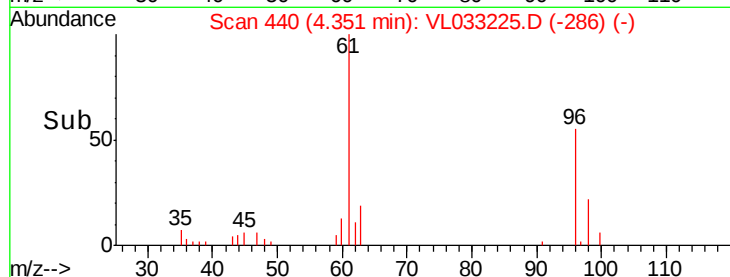
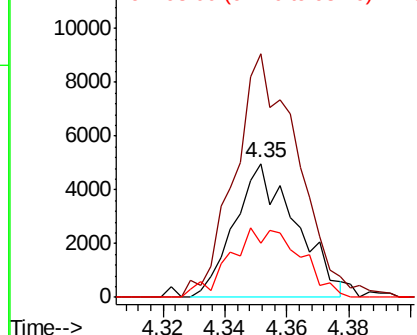
96 100

61 168.5 145.0 217.6

98 36.8 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: 3.266 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

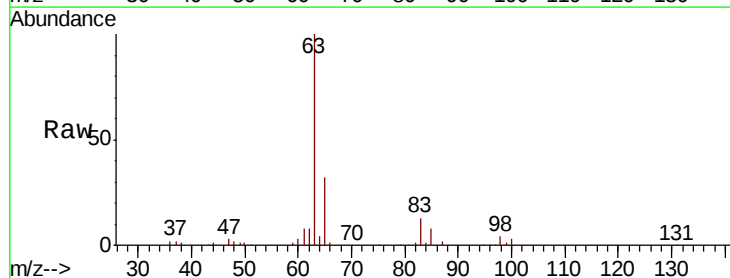
Tgt Ion: 63 Resp: 328410

Ion Ratio Lower Upper

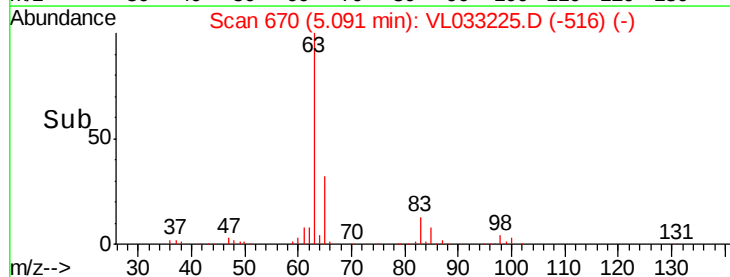
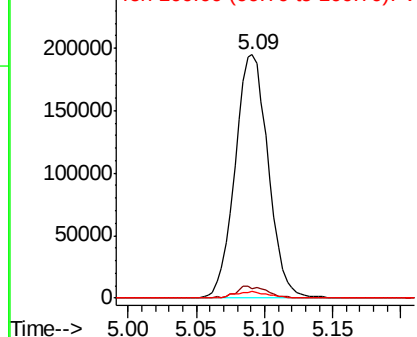
63 100

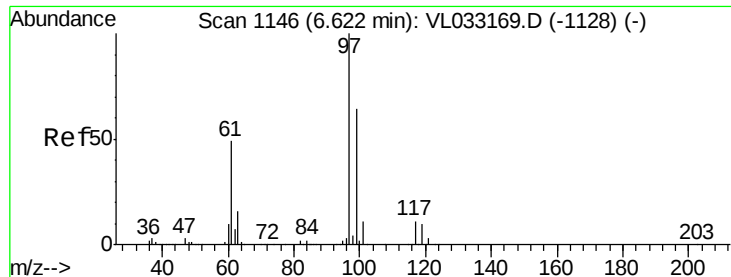
98 4.0 2.1 6.5

100 2.7 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: 11.496 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

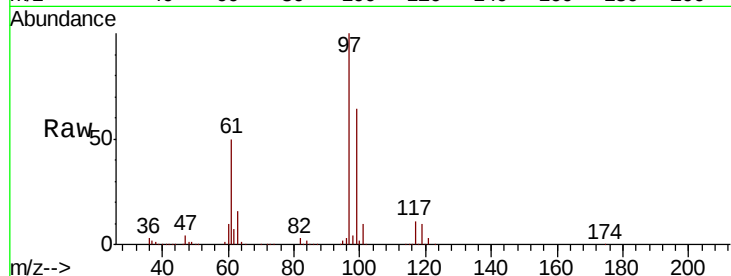
Tot Ion: 97 Resp: 1679247

Ion Ratio Lower Upper

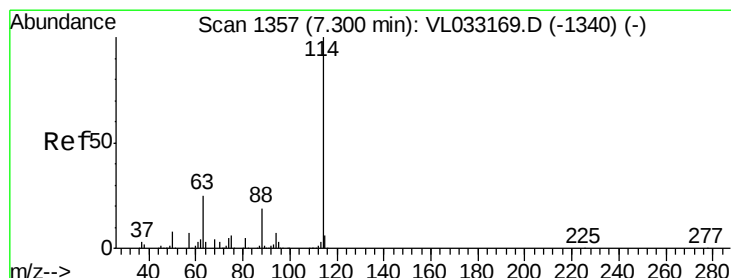
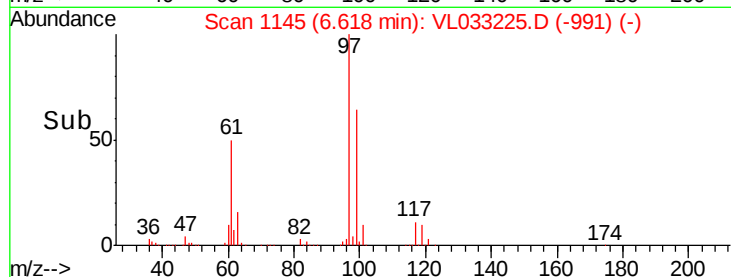
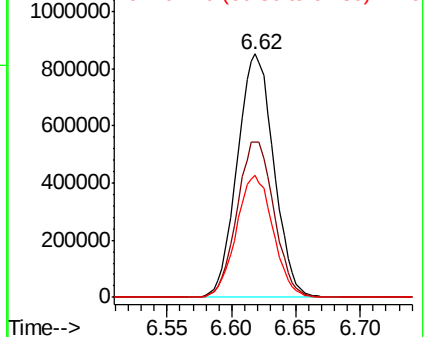
97 100

99 64.9 51.4 77.2

61 50.4 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: VL033225.D

Acq: 15 Feb 2019 10:25

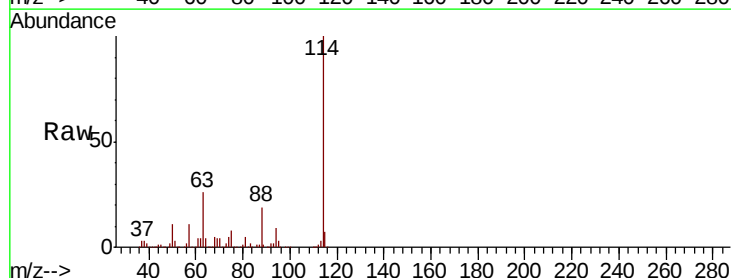
Tgt Ion: 114 Resp: 1928658

Ion Ratio Lower Upper

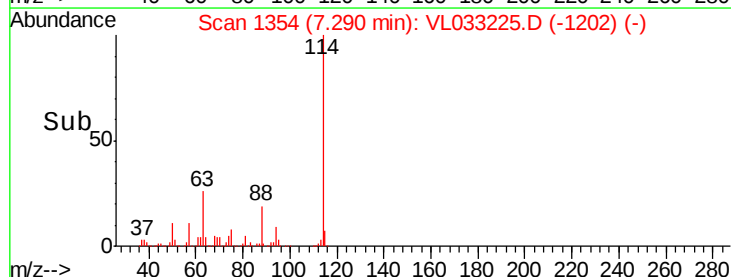
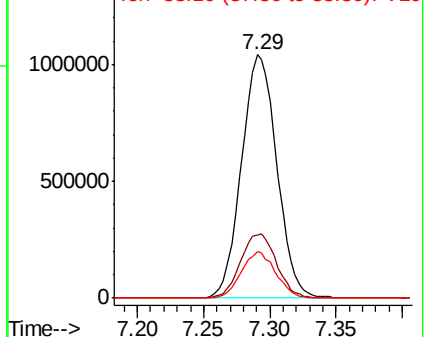
114 100

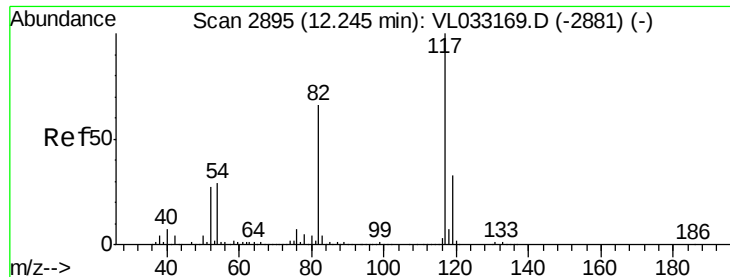
63 27.2 20.8 31.2

88 18.7 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: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

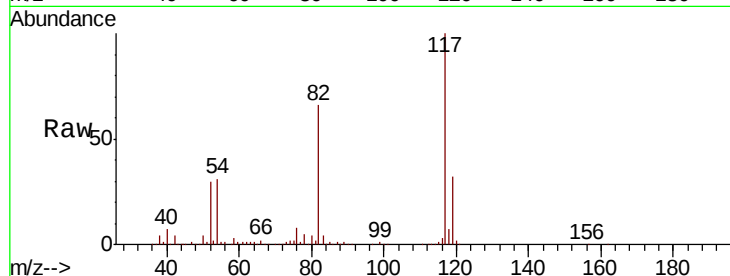
Tot Ion:117 Resp: 1933823

Ion Ratio Lower Upper

117 100

82 68.0 53.8 80.8

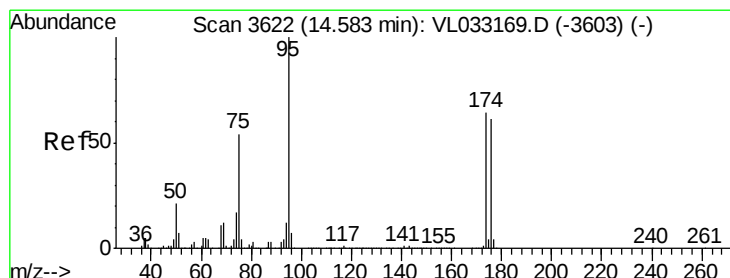
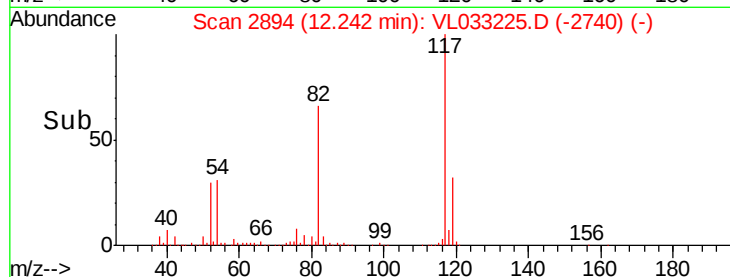
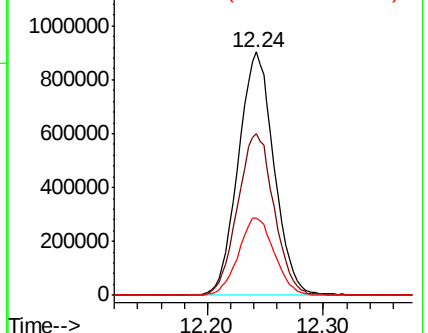
119 32.4 46.9 70.3#



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: 10.337 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

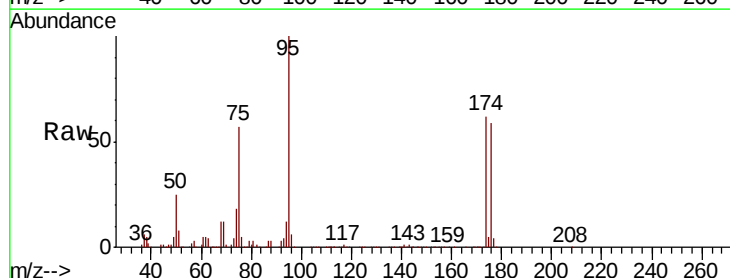
Tgt Ion: 95 Resp: 1557780

Ion Ratio Lower Upper

95 100

174 63.6 51.1 76.7

175 4.6 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

