

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033216.D
 Acq On : 15 Feb 2019 2:50
 Operator : SY/AP
 Sample : K1483-09DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:34:14 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	822376	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1847337	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2139374	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1717175	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

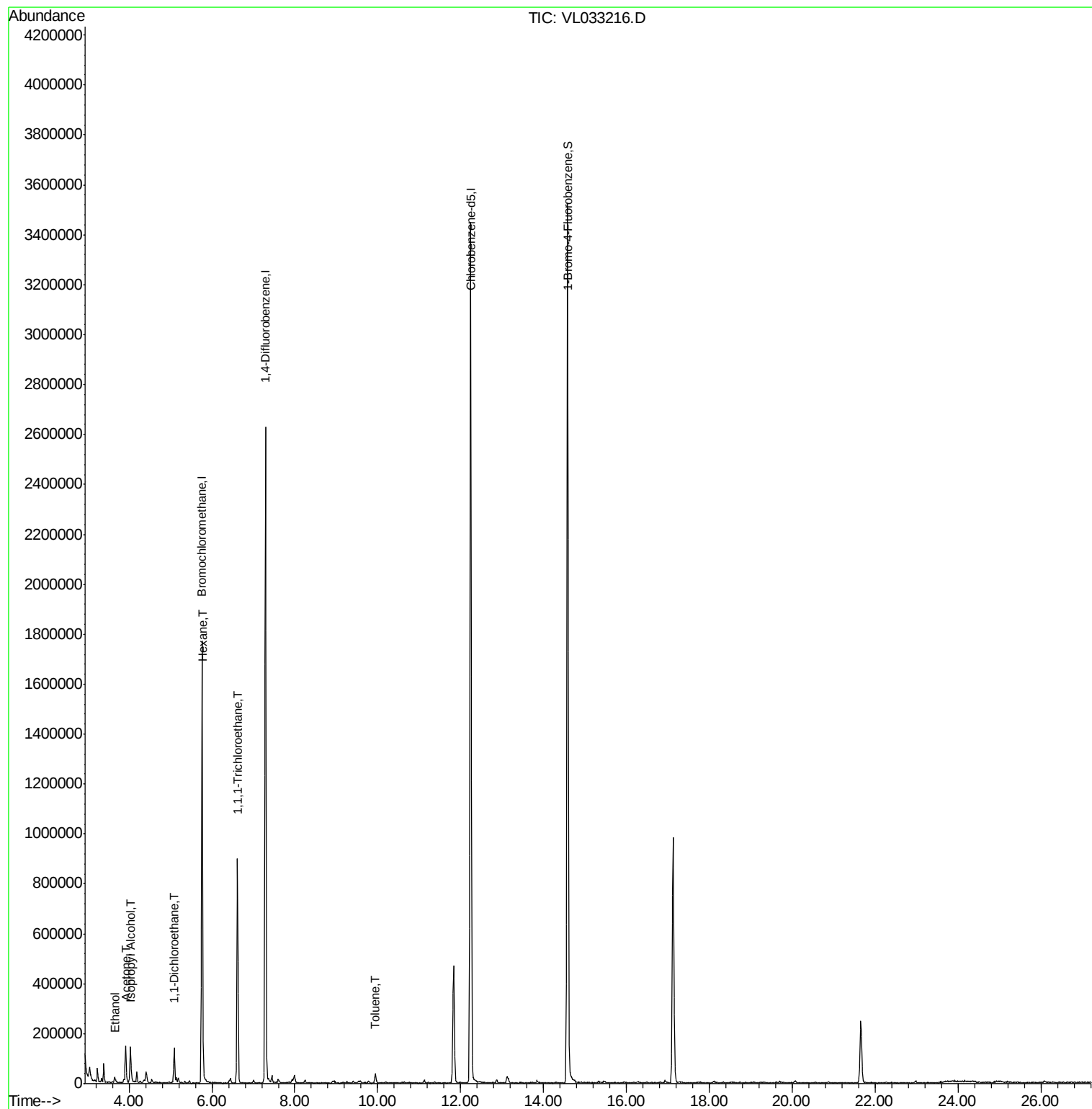
Target Compounds

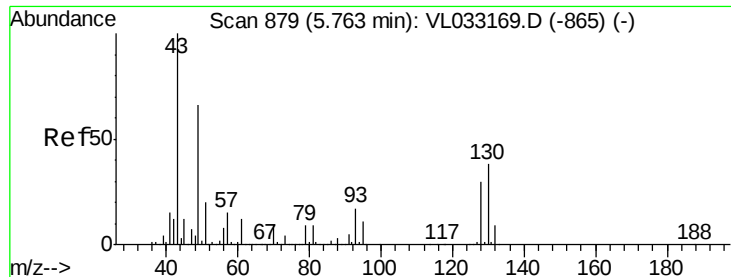
					Ovalue
13) Ethanol	3.65	45	20171m	1.241	ppbv
15) Acetone	3.91	43	144126	1.556	ppbv 91
19) Isopropyl Alcohol	4.03	45	156033	2.483	ppbv # 98
24) 1,1-Dichloroethane	5.09	63	109782	0.967	ppbv 98
26) Hexane	5.78	57	16447	0.168	ppbv # 41
32) 1,1,1-Trichloroethane	6.62	97	546504	3.312	ppbv 97
53) Toluene	9.95	91	22327m	0.101	ppbv

(#) = 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: VL033216.D

Acq: 15 Feb 2019 2:50

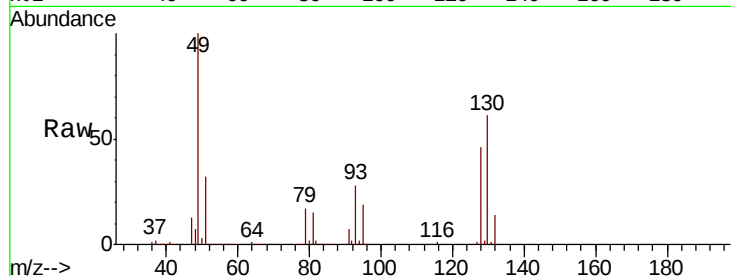
Tot Ion: 49 Resp: 822376

Ion Ratio Lower Upper

49 100

128 46.1 23.6 71.0

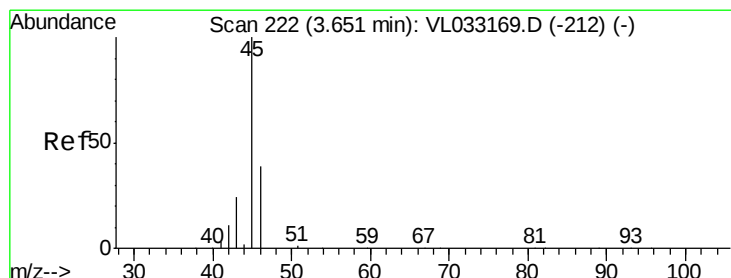
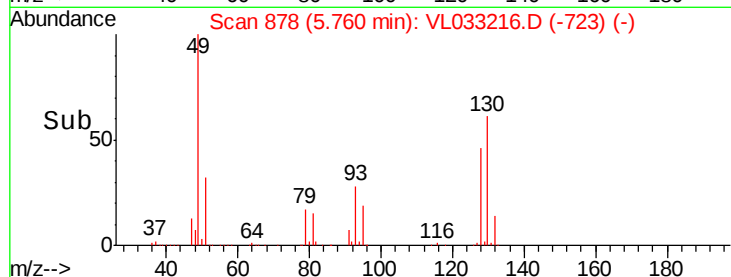
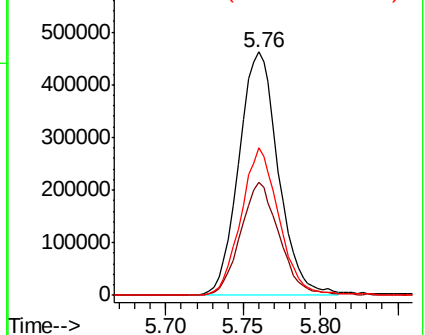
130 59.0 30.3 91.0



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



#13

Ethanol

Concen: 1.241 ppbv m

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033216.D

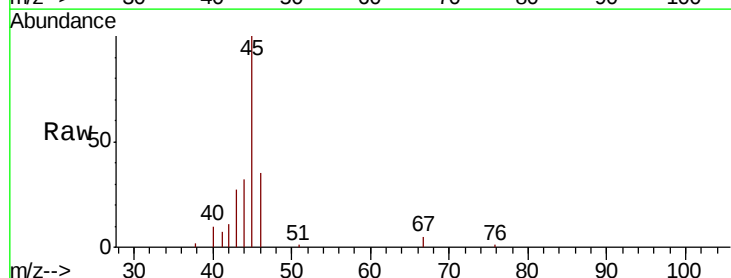
Acq: 15 Feb 2019 2:50

Tgt Ion: 45 Resp: 20171

Ion Ratio Lower Upper

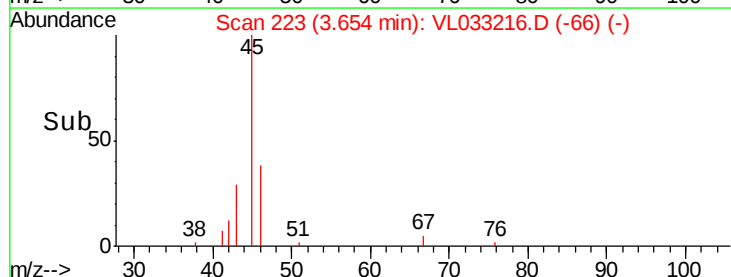
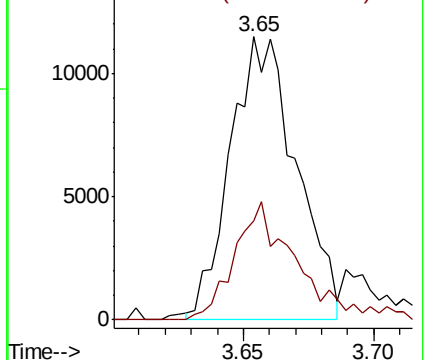
45 100

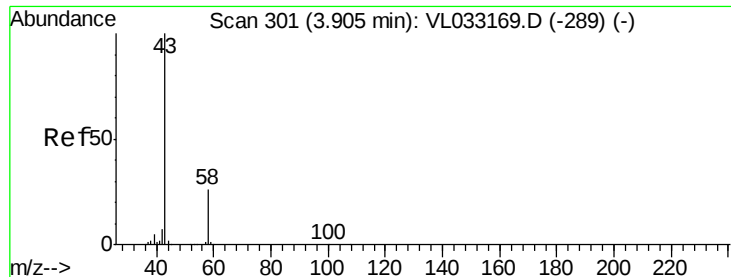
46 0.0 15.0 60.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.556 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033216.D

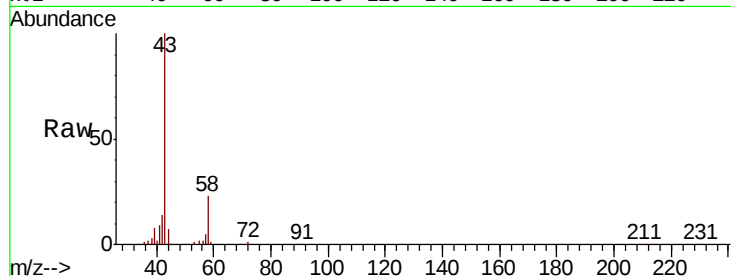
Acq: 15 Feb 2019 2:50

Tot Ion: 43 Resp: 144126

Ion Ratio Lower Upper

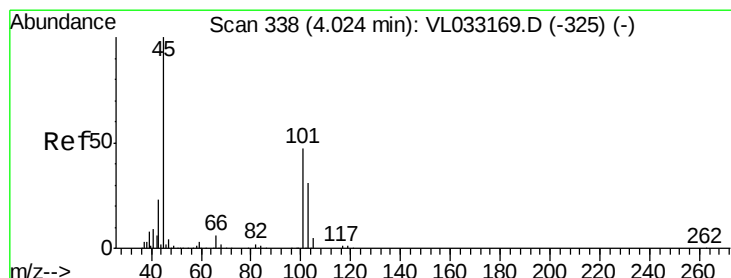
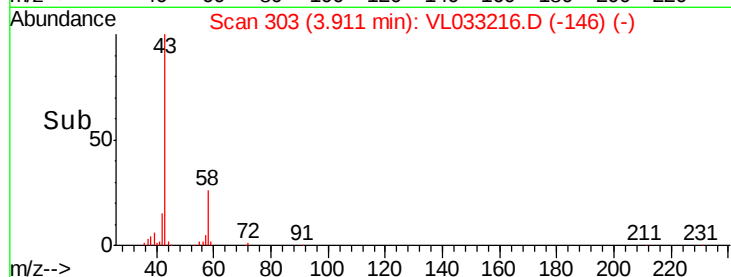
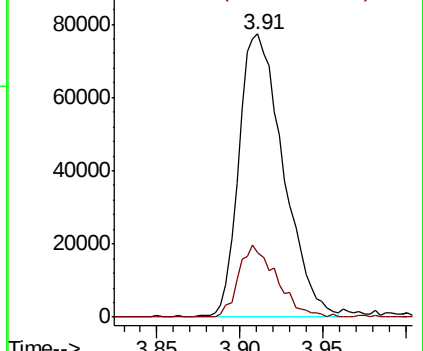
43 100

58 21.9 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 2.483 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033216.D

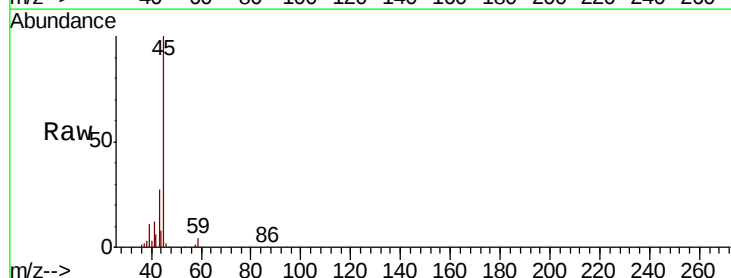
Acq: 15 Feb 2019 2:50

Tgt Ion: 45 Resp: 156033

Ion Ratio Lower Upper

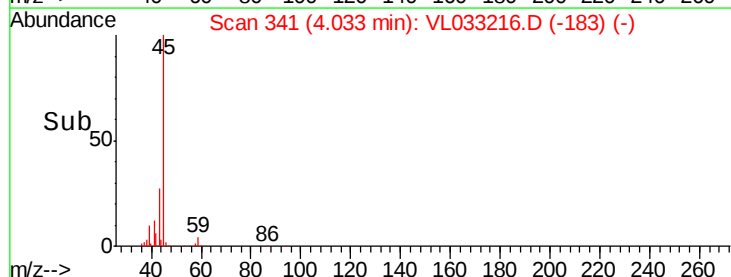
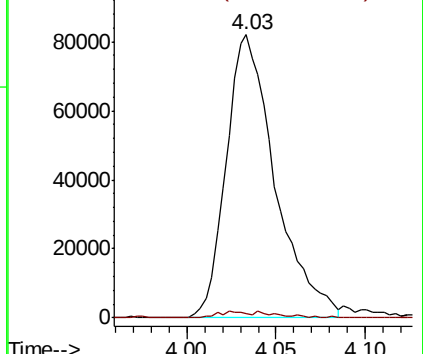
45 100

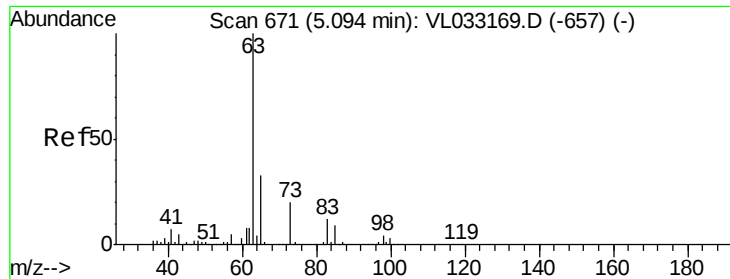
58 2.8 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#24

1,1-Dichloroethane

Concen: 0.967 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.01 min

Lab File: VL033216.D

Acq: 15 Feb 2019 2:50

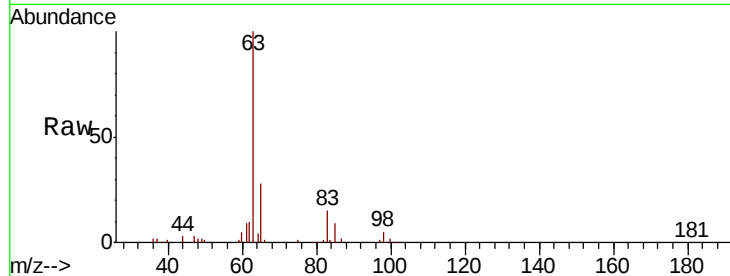
Tot Ion: 63 Resp: 109782

Ion Ratio Lower Upper

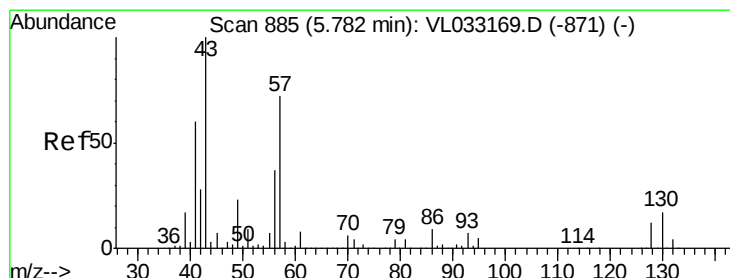
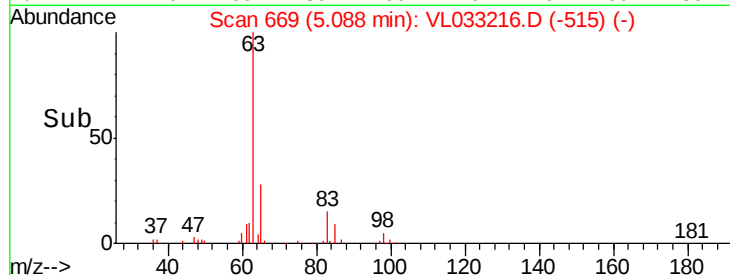
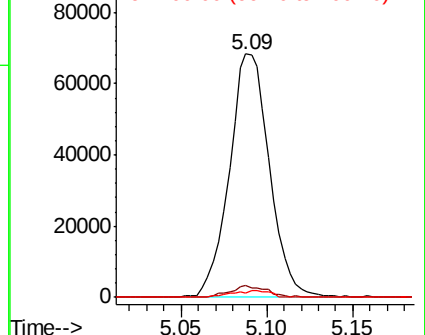
63 100

98 4.8 2.1 6.5

100 1.9 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



#26

Hexane

Concen: 0.168 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033216.D

Acq: 15 Feb 2019 2:50

Tgt Ion: 57 Resp: 16447

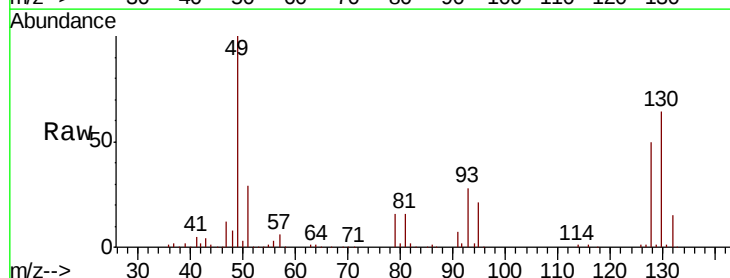
Ion Ratio Lower Upper

57 100

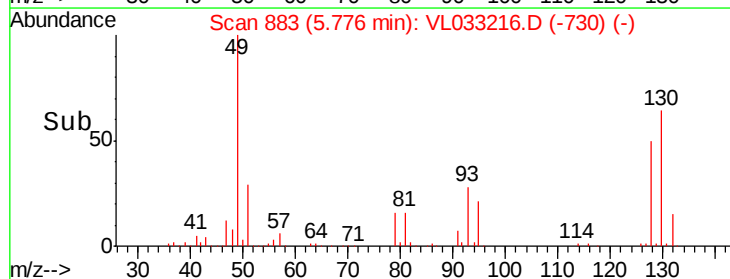
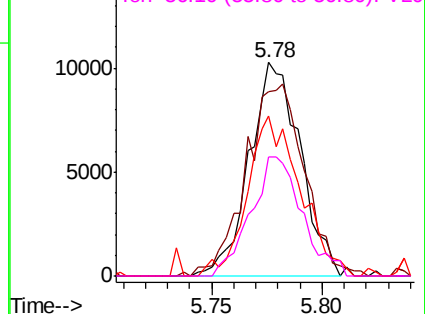
41 103.2 69.4 104.2

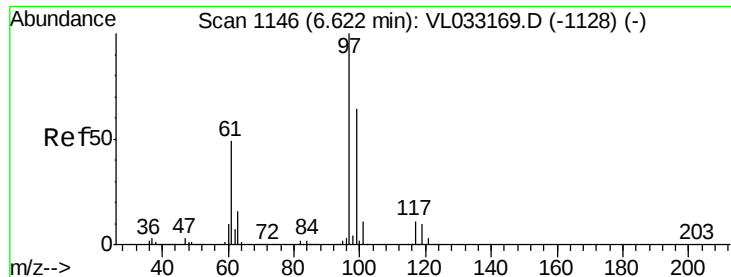
43 80.0 176.7 265.1#

56 55.9 41.4 62.0



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#32

1,1,1-Trichloroethane

Concen: 3.312 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033216.D

Acq: 15 Feb 2019 2:50

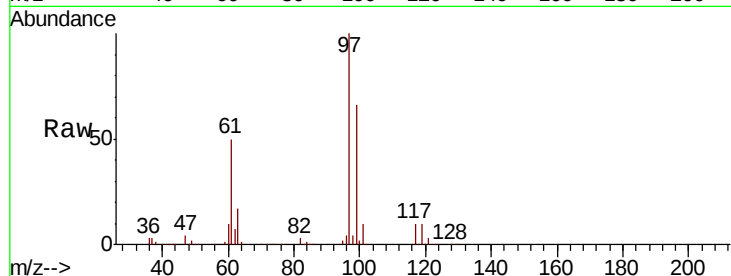
Tot Ion: 97 Resp: 546504

Ion Ratio Lower Upper

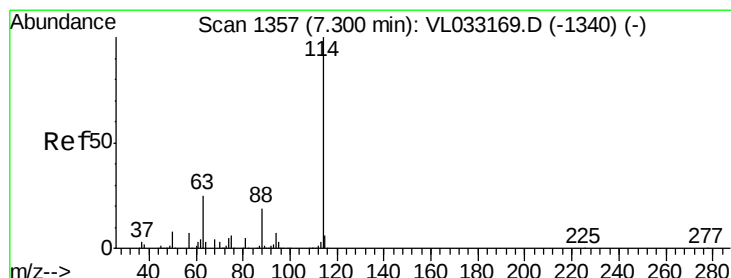
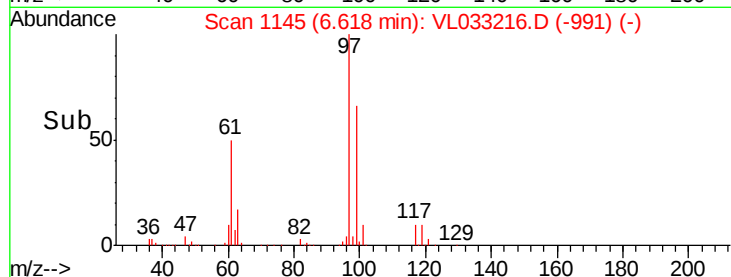
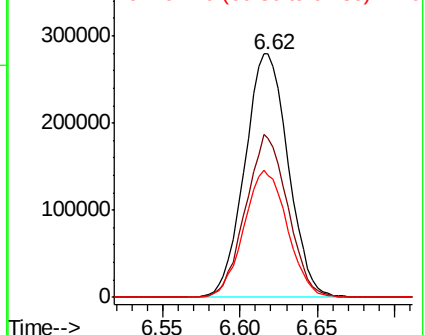
97 100

99 64.7 51.4 77.2

61 52.1 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: VL033216.D

Acq: 15 Feb 2019 2:50

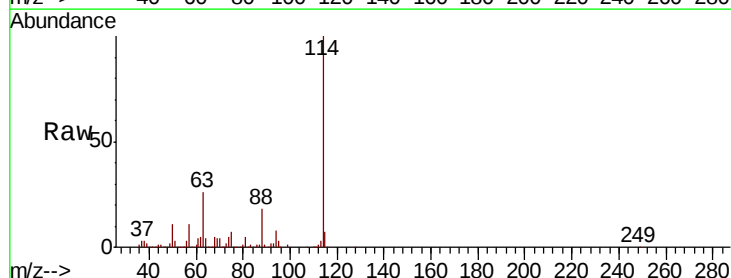
Tgt Ion: 114 Resp: 1847337

Ion Ratio Lower Upper

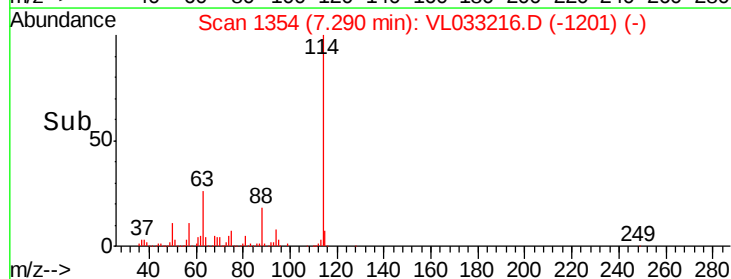
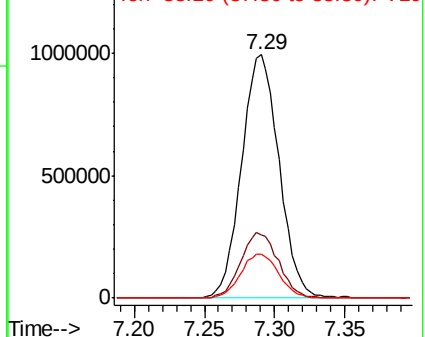
114 100

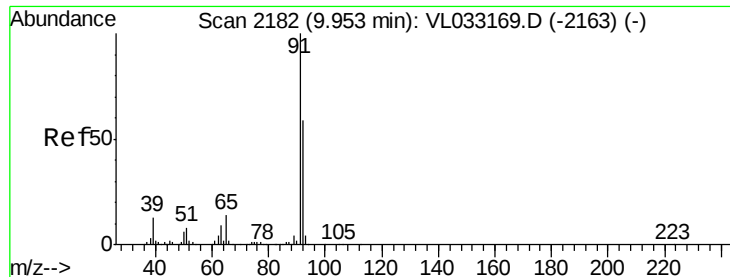
63 27.1 20.8 31.2

88 18.4 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





#53

Toluene

Concen: 0.101 ppbv m

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033216.D

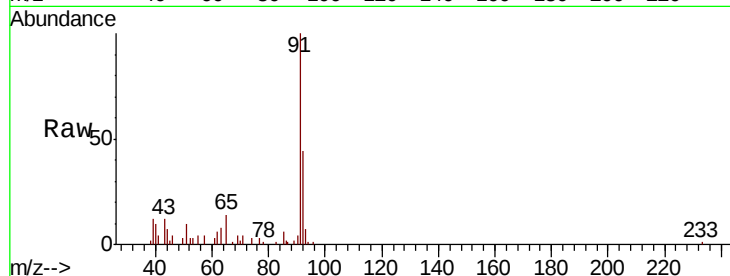
Acq: 15 Feb 2019 2:50

Tot Ion: 91 Resp: 22327

Ion Ratio Lower Upper

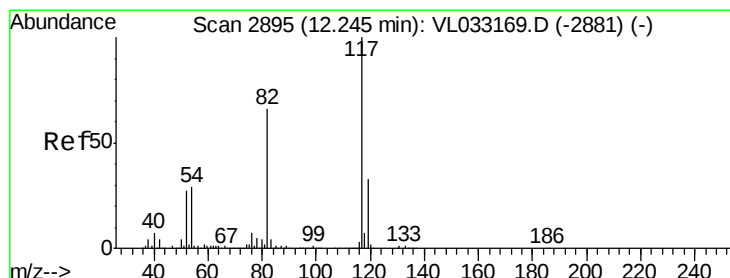
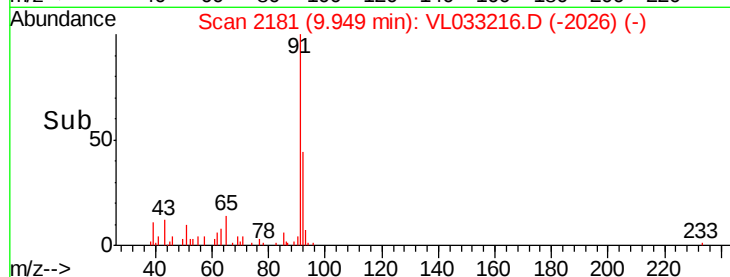
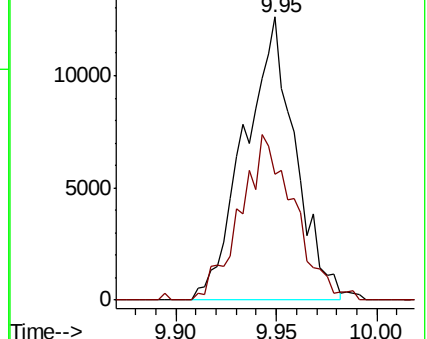
91 100

92 61.8 48.0 72.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033216.D

Acq: 15 Feb 2019 2:50

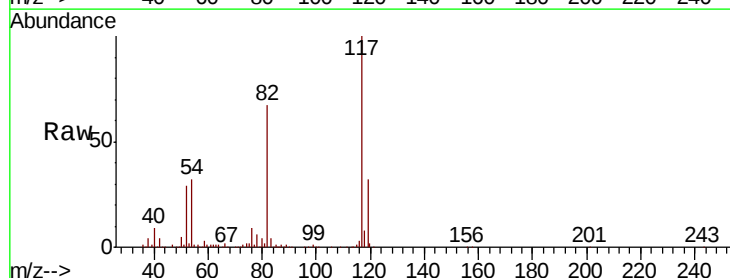
Tgt Ion: 117 Resp: 2139374

Ion Ratio Lower Upper

117 100

82 68.2 53.8 80.8

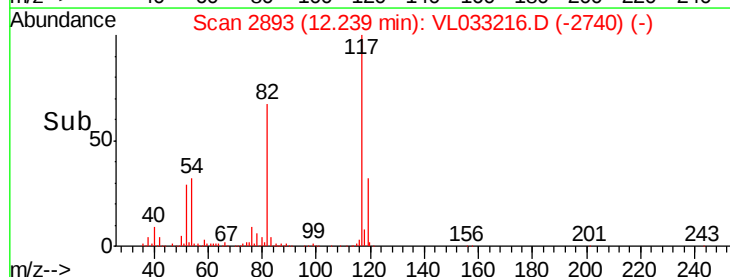
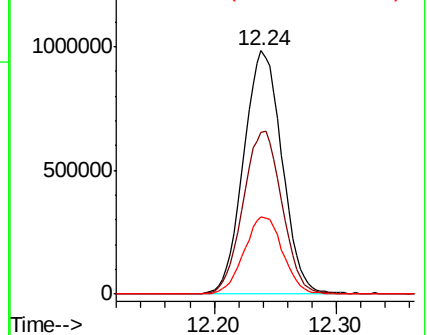
119 32.1 46.9 70.3#

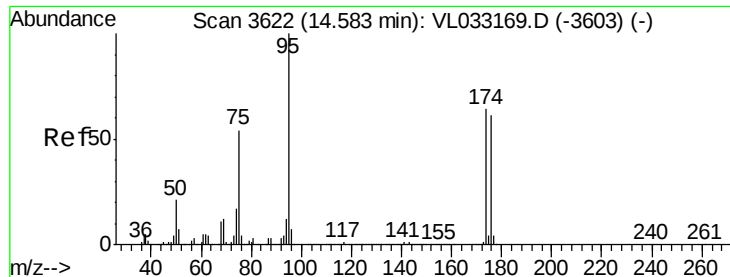


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.300 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VL033216.D
 Acq: 15 Feb 2019 2:50

Tot Ion: 95 Resp: 1717175
 Ion Ratio Lower Upper
 95 100
 174 63.2 51.1 76.7
 175 4.7 3.8 5.6

