

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
Data File : VL033220.D
Acq On : 15 Feb 2019 5:28
Operator : SY/AP
Sample : K1483-08DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:50:24 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	739974	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1923493	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1920008	10.00	ppbv	0.00

System Monitoring Compounds

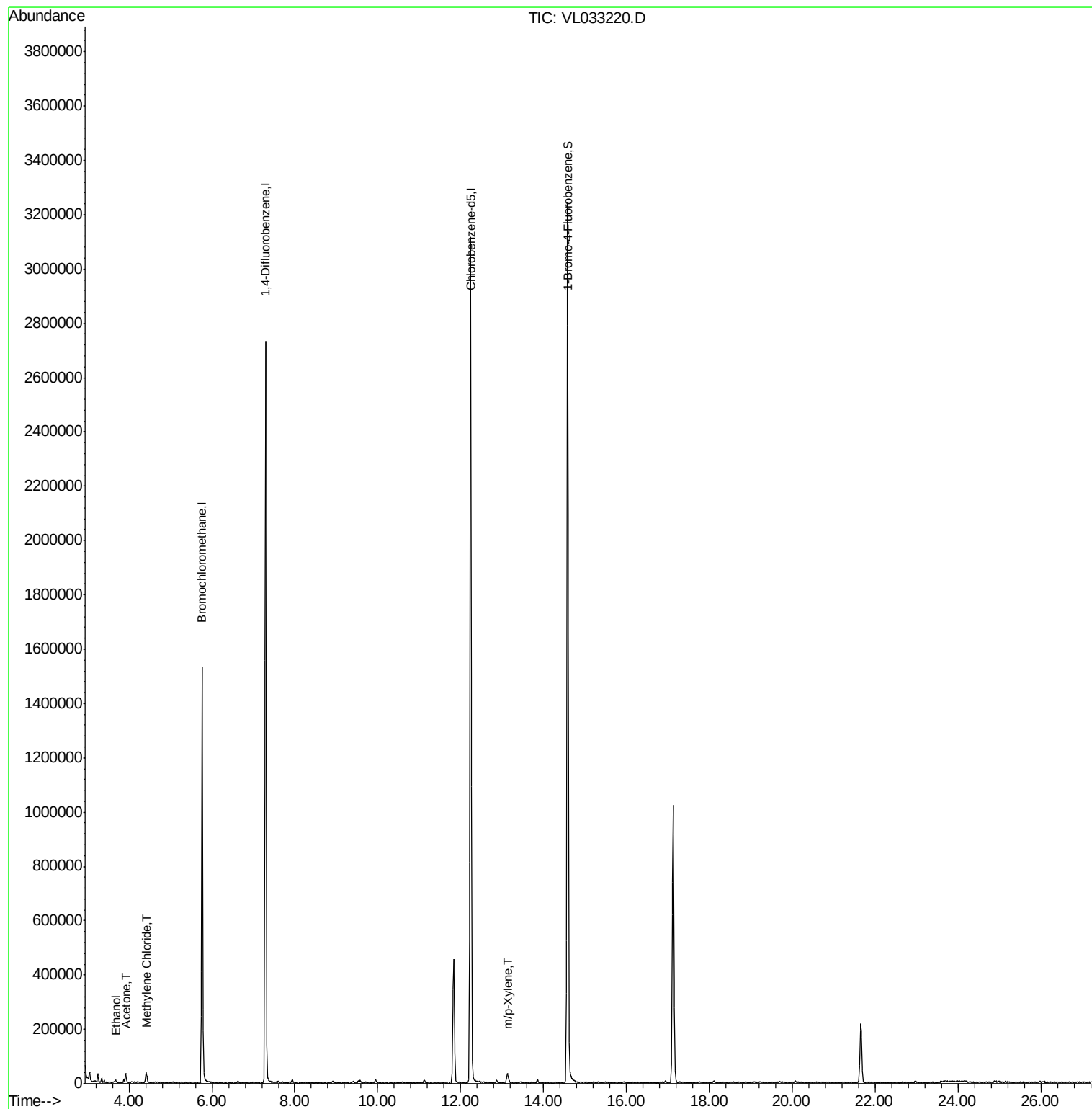
68) 1-Bromo-4-Fluorobenzene	14.58	95	1565641	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

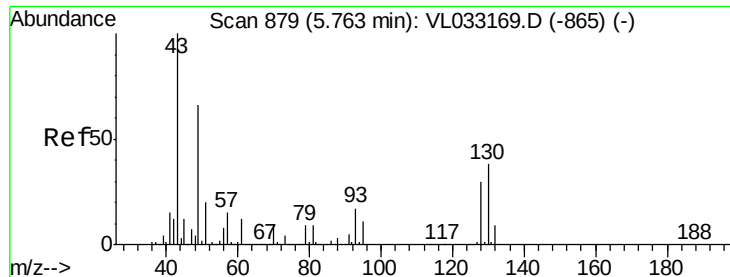
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.67	45	7211m	0.493	ppbv	
15) Acetone	3.92	43	33915	0.407	ppbv	96
20) Methylene Chloride	4.41	84	11103m	0.335	ppbv	
59) m/p-Xylene	13.13	91	33194m	0.127	ppbv	

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033220.D

Acq: 15 Feb 2019 5:28

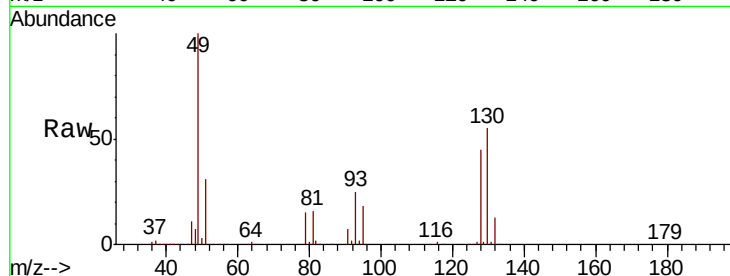
Tot Ion: 49 Resp: 739974

Ion Ratio Lower Upper

49 100

128 45.2 23.6 71.0

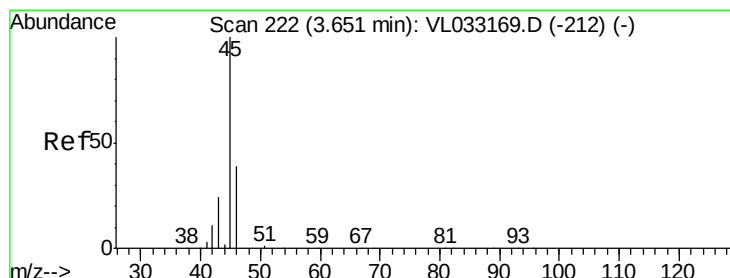
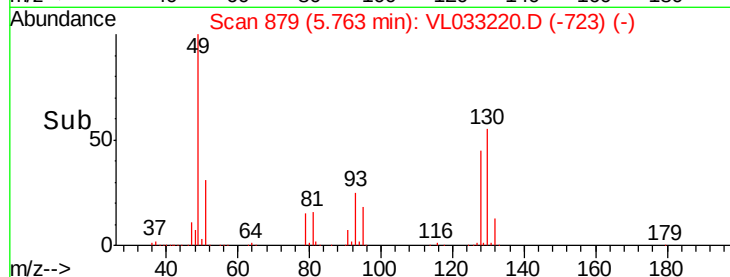
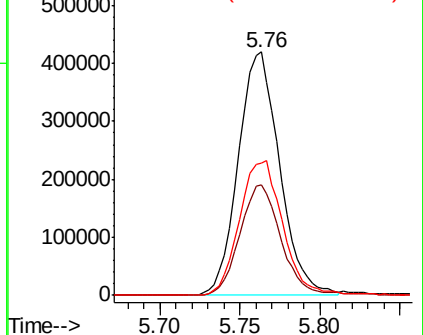
130 58.7 30.3 91.0



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: 0.493 ppbv m

RT: 3.67 min Scan# 222

Delta R.T. 0.02 min

Lab File: VL033220.D

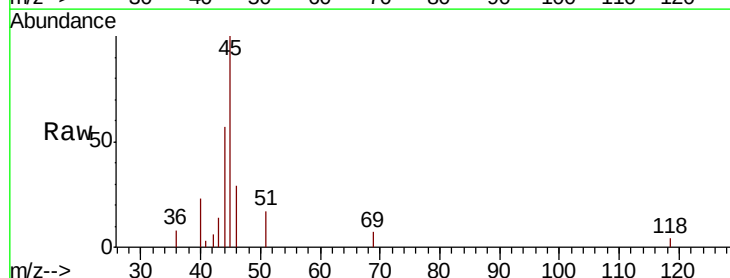
Acq: 15 Feb 2019 5:28

Tgt Ion: 45 Resp: 7211

Ion Ratio Lower Upper

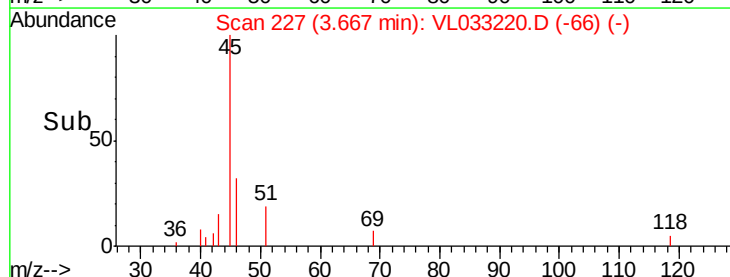
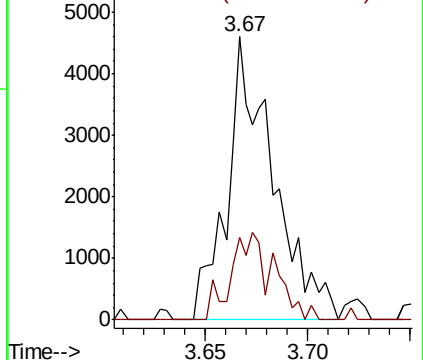
45 100

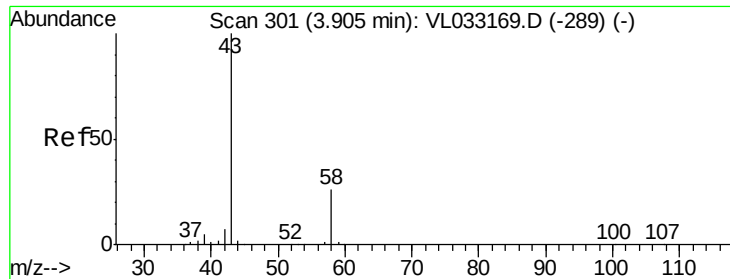
46 0.0 15.0 60.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.407 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033220.D

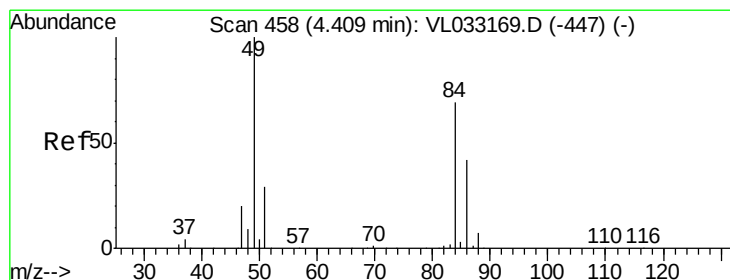
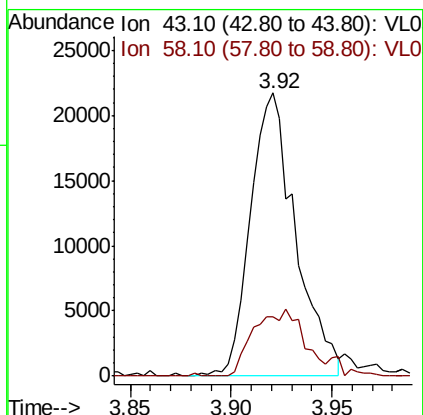
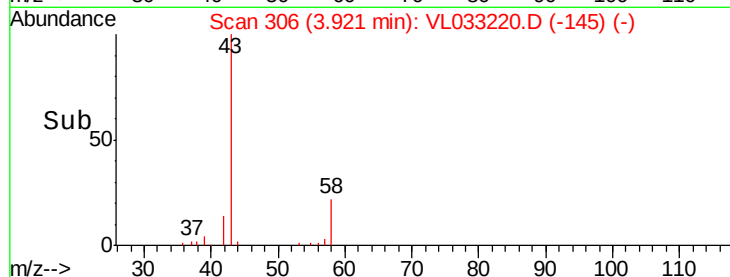
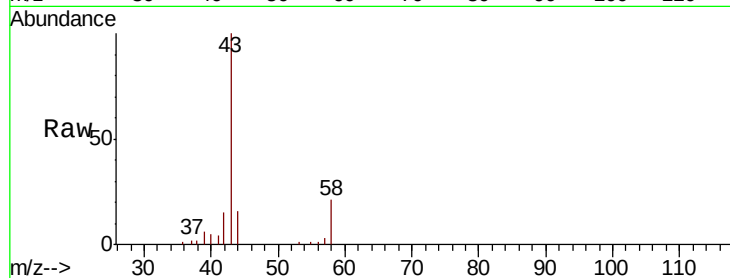
Acq: 15 Feb 2019 5:28

Tot Ion: 43 Resp: 33915

Ion Ratio Lower Upper

43 100

58 28.6 21.1 31.7



#20

Methylene Chloride

Concen: 0.335 ppbv m

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033220.D

Acq: 15 Feb 2019 5:28

Tgt Ion: 84 Resp: 11103

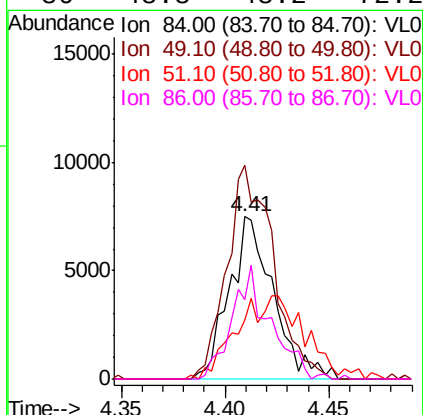
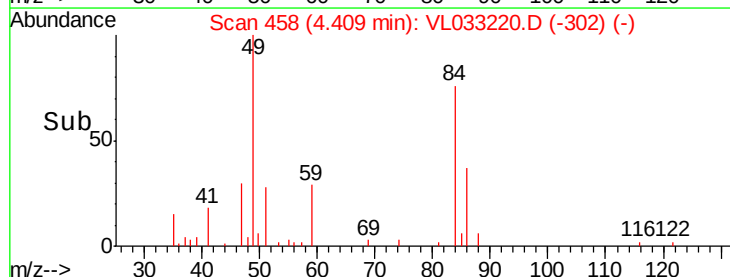
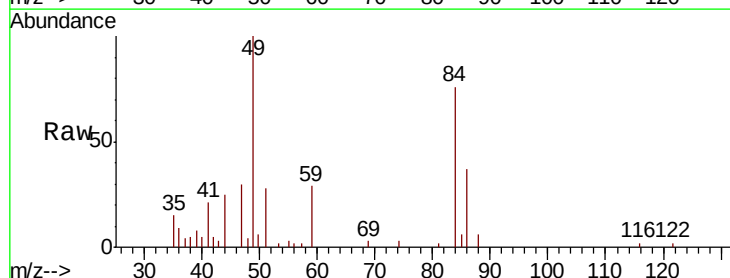
Ion Ratio Lower Upper

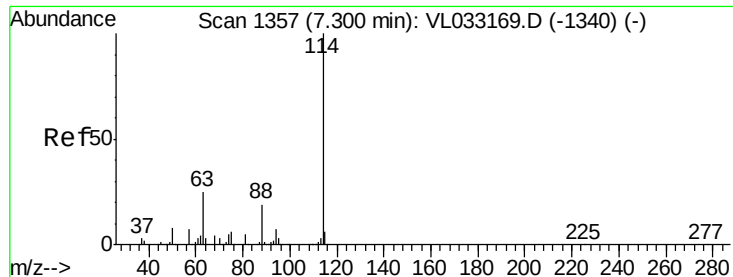
84 100

49 131.8 115.8 173.8

51 36.7 33.0 49.6

86 48.8 48.2 72.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033220.D

Acq: 15 Feb 2019 5:28

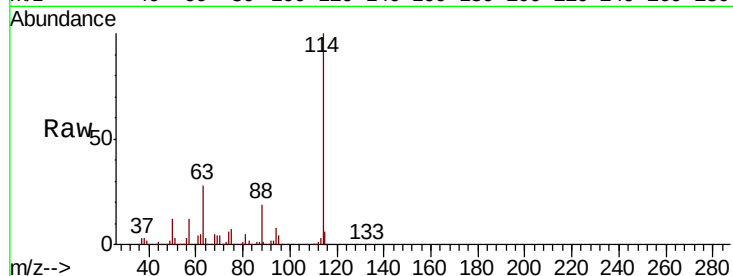
Tot Ion:114 Resp: 1923493

Ion Ratio Lower Upper

114 100

63 27.1 20.8 31.2

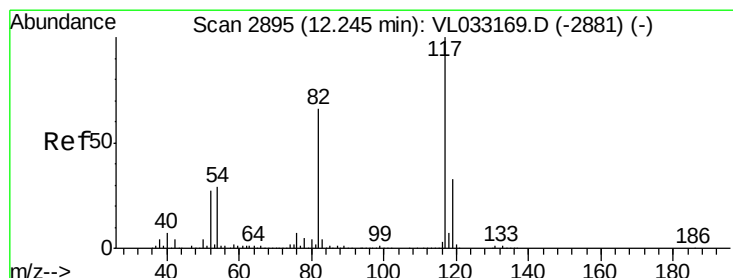
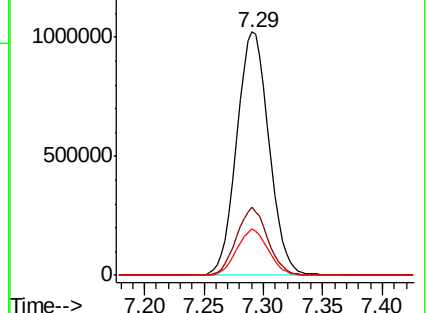
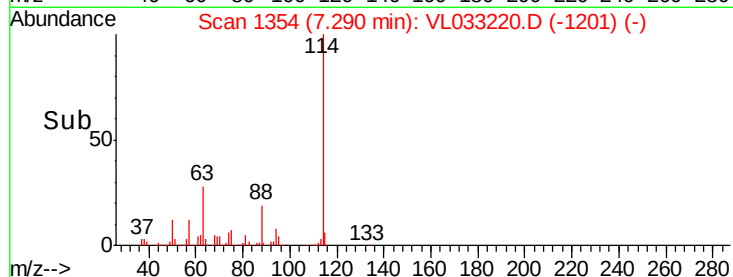
88 18.5 14.6 22.0



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# 2893

Delta R.T. -0.01 min

Lab File: VL033220.D

Acq: 15 Feb 2019 5:28

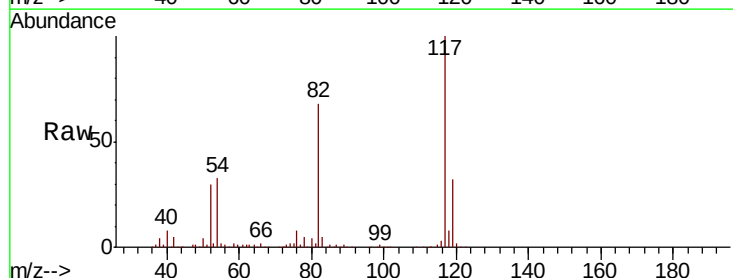
Tgt Ion:117 Resp: 1920008

Ion Ratio Lower Upper

117 100

82 68.5 53.8 80.8

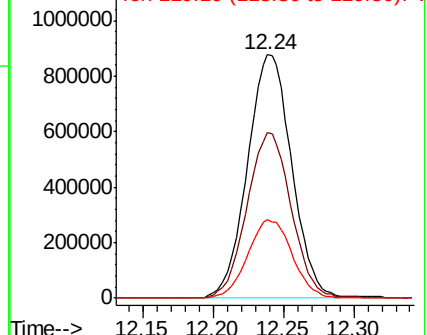
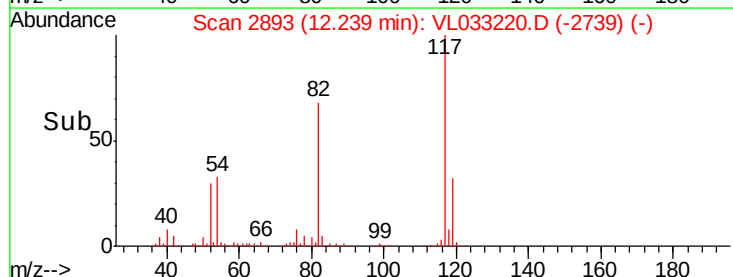
119 32.5 46.9 70.3#

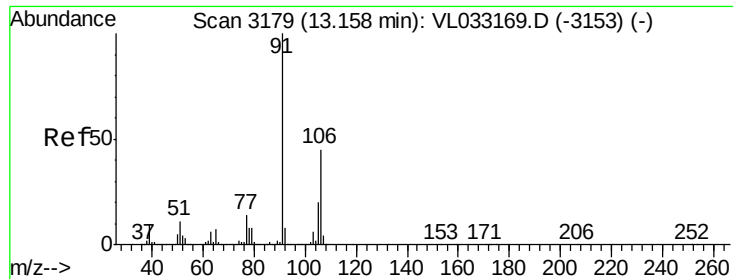


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

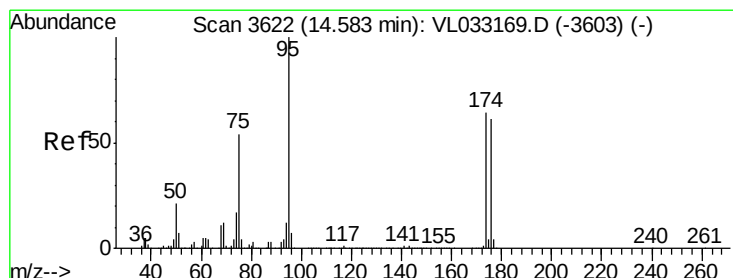
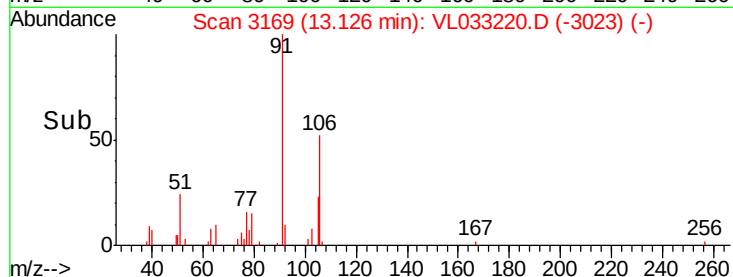
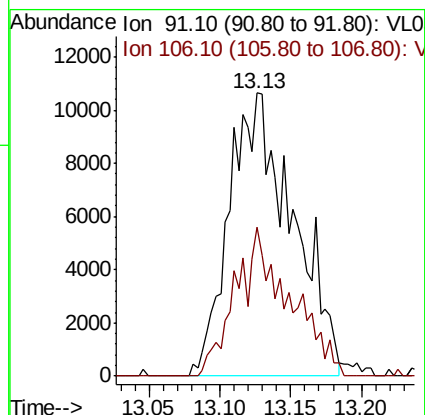
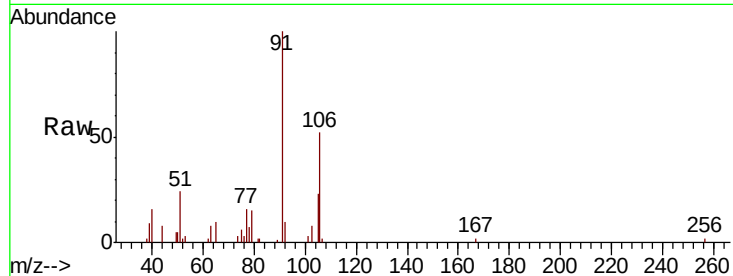
Ion 119.10 (118.80 to 119.80): V





#59
m/p-Xylene
Concen: 0.127 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033220.D
Acq: 15 Feb 2019 5:28

Tot Ion: 91 Resp: 33194
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.464 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033220.D
Acq: 15 Feb 2019 5:28

Tgt Ion: 95 Resp: 1565641
Ion Ratio Lower Upper
95 100
174 63.4 51.1 76.7
175 4.7 3.8 5.6

