

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033212.D
 Acq On : 15 Feb 2019 00:12
 Operator : SY/AP
 Sample : K1483-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:16:27 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	942149	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2106945	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2104678	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1688047	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

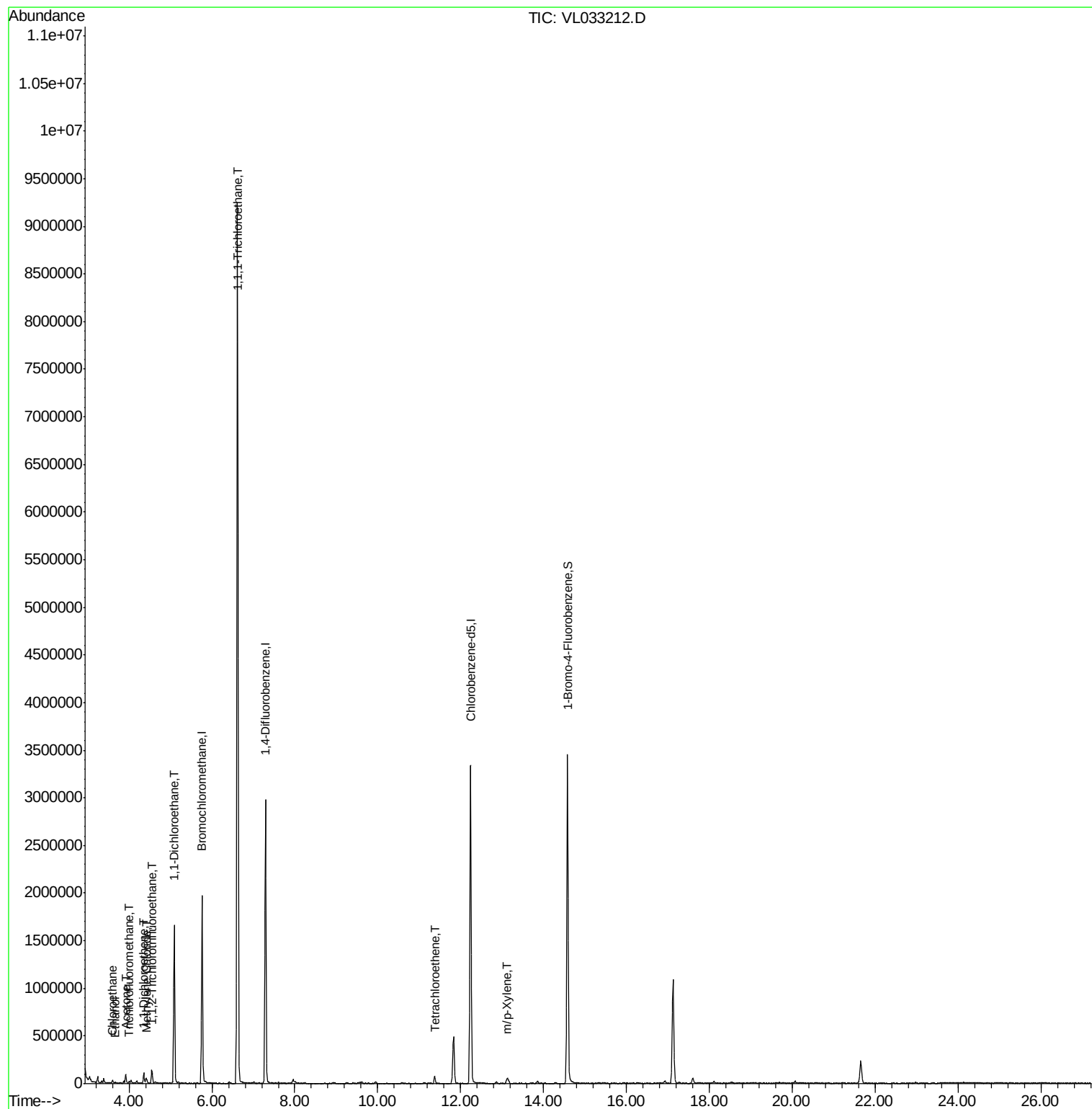
Target Compounds

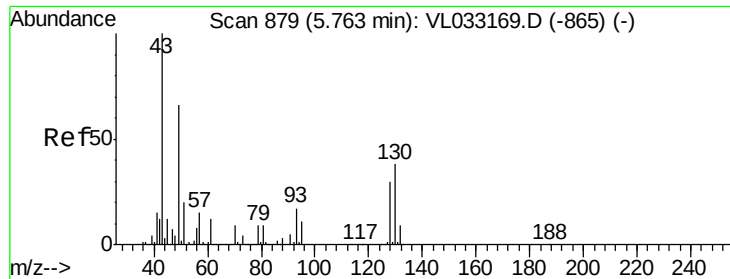
					Ovalue	
7) Chloroethane	3.60	64	20169	0.986	ppbv	# 88
11) Trichlorofluoromethane	4.00	101	13169	0.090	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	49014	0.485	ppbv	99
13) Ethanol	3.67	45	7074m	0.380	ppbv	
15) Acetone	3.92	43	64416	0.607	ppbv	# 90
18) 1,1-Dichloroethene	4.35	96	30425	0.673	ppbv	94
20) Methylene Chloride	4.41	84	17553	0.416	ppbv	92
24) 1,1-Dichloroethane	5.09	63	1387706	10.665	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	6141216	32.484	ppbv	99
52) Tetrachloroethene	11.37	164	16600m	0.202	ppbv	
59) m/p-Xylene	13.12	91	56601m	0.197	ppbv	

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 06:00:52 2019
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033212.D

Acq: 15 Feb 2019 00:12

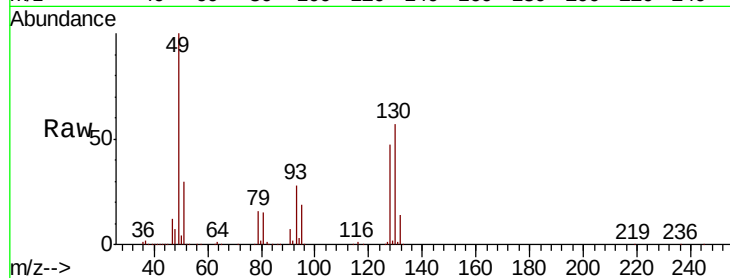
Tot Ion: 49 Resp: 942149

Ion Ratio Lower Upper

49 100

128 45.9 23.6 71.0

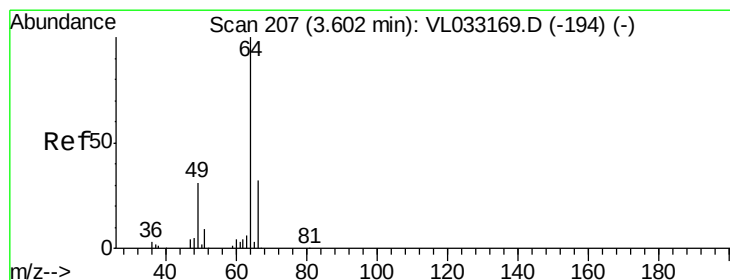
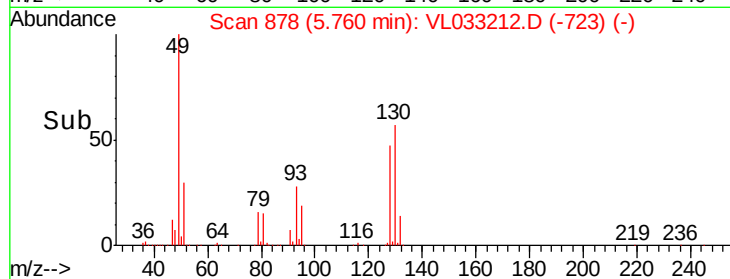
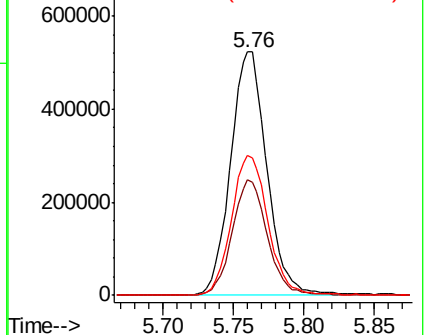
130 58.5 30.3 91.0



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: 0.986 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033212.D

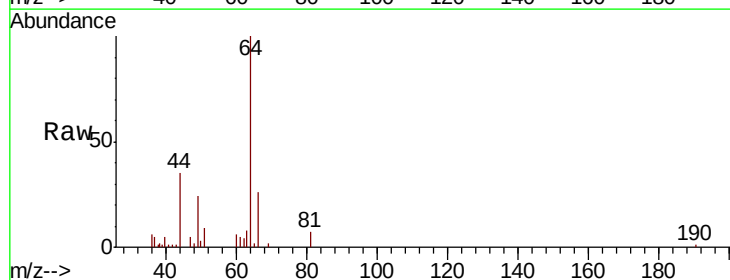
Acq: 15 Feb 2019 00:12

Tgt Ion: 64 Resp: 20169

Ion Ratio Lower Upper

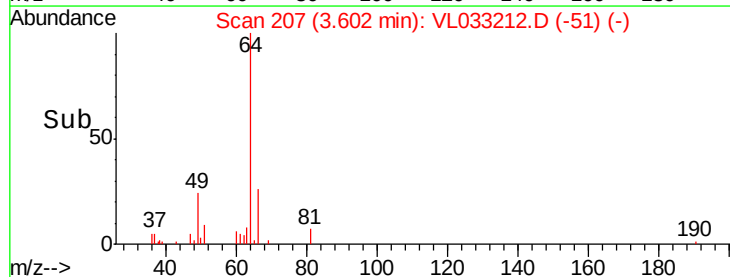
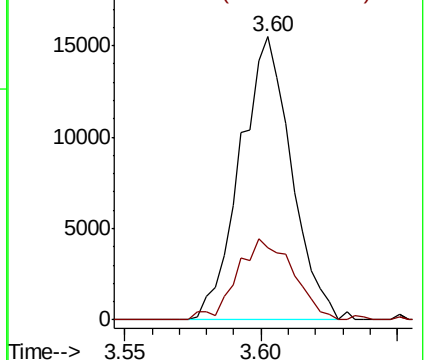
64 100

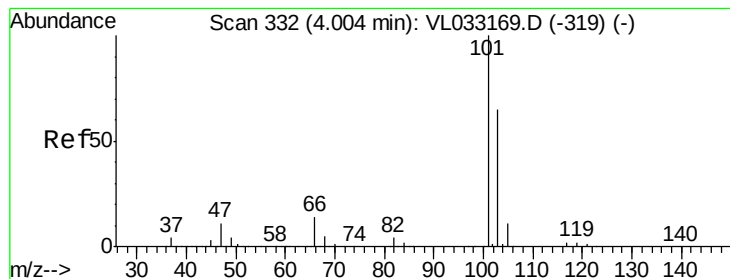
66 25.5 26.0 39.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#11

Trichlorofluoromethane

Concen: 0.090 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033212.D

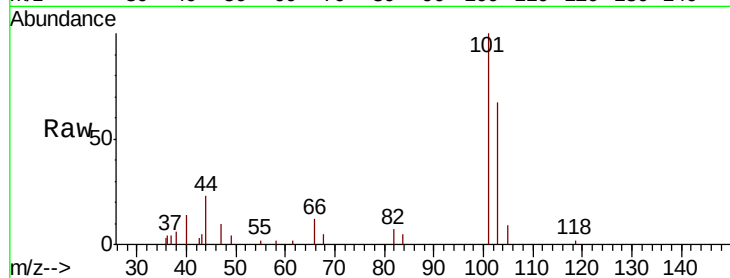
Acq: 15 Feb 2019 00:12

Tot Ion:101 Resp: 13169

Ion Ratio Lower Upper

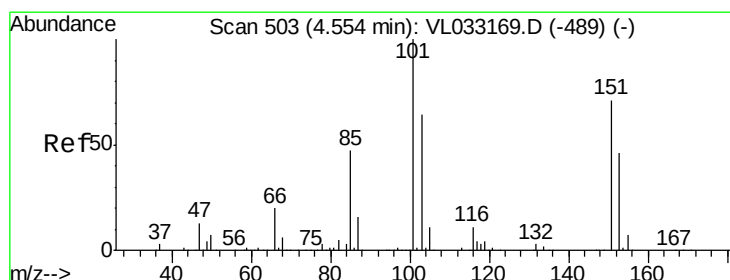
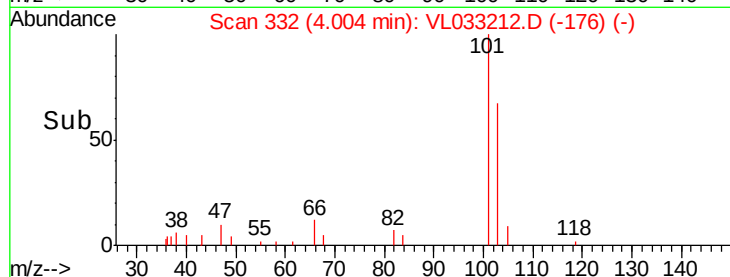
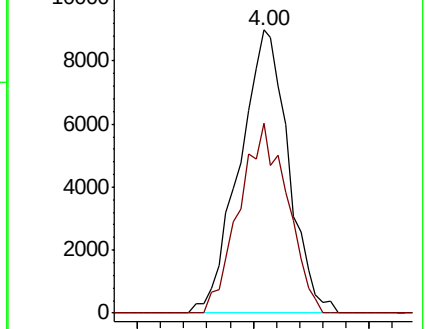
101 100

103 66.9 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.485 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033212.D

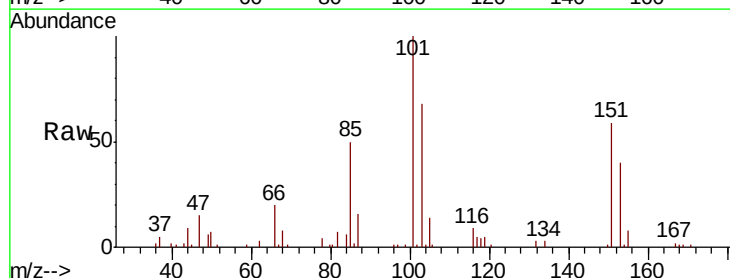
Acq: 15 Feb 2019 00:12

Tgt Ion:101 Resp: 49014

Ion Ratio Lower Upper

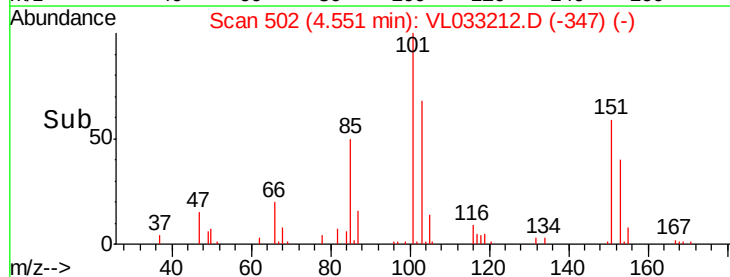
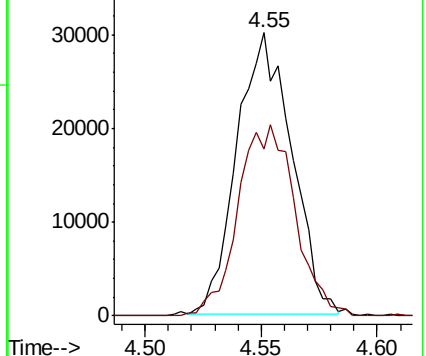
101 100

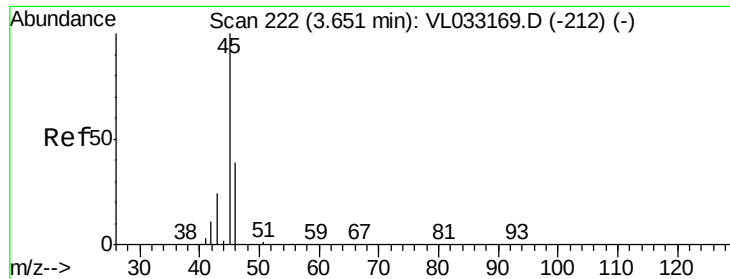
151 70.6 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.380 ppbv m

RT: 3.67 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL033212.D

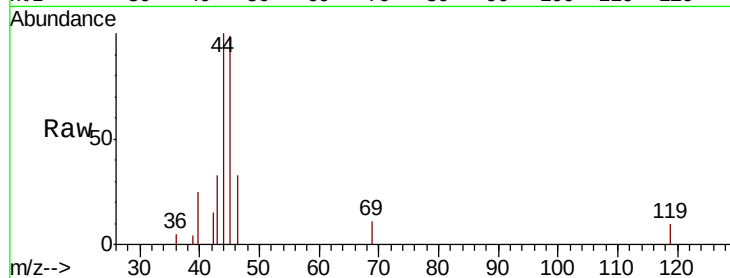
Acq: 15 Feb 2019 00:12

Tot Ion: 45 Resp: 7074

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

5000

4000

3000

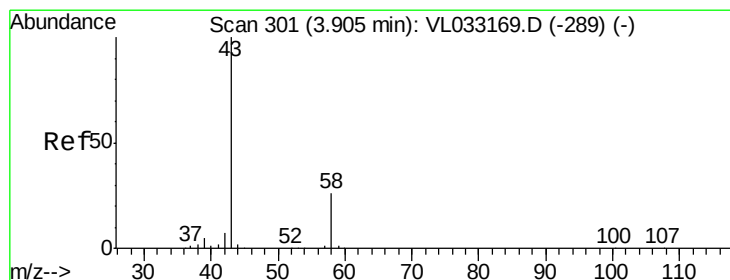
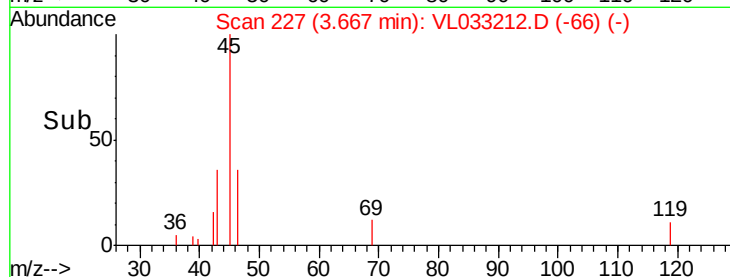
2000

1000

0

3.65 3.70

Time-->



#15

Acetone

Concen: 0.607 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033212.D

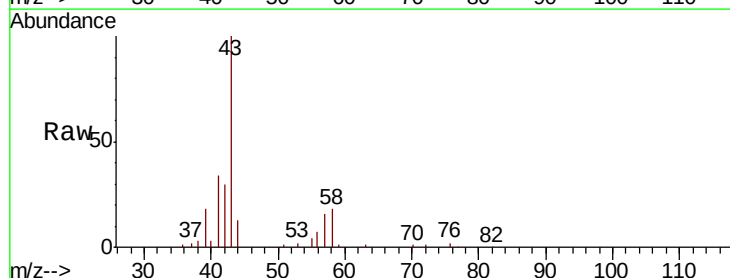
Acq: 15 Feb 2019 00:12

Tgt Ion: 43 Resp: 64416

Ion Ratio Lower Upper

43 100

58 21.1 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

40000

30000

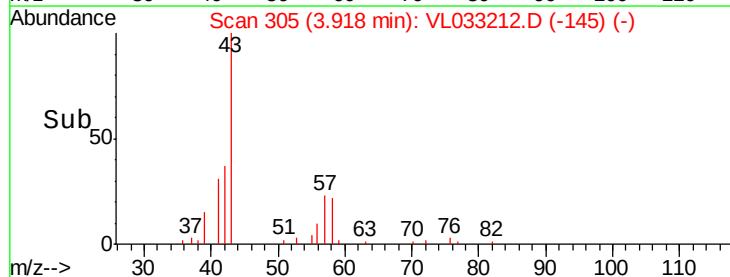
20000

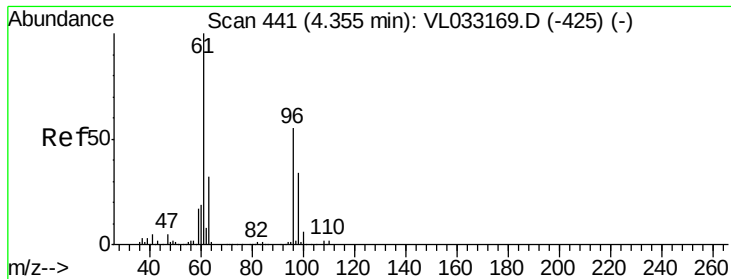
10000

0

3.90 3.95

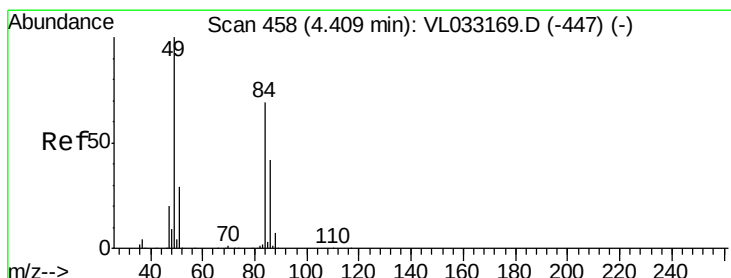
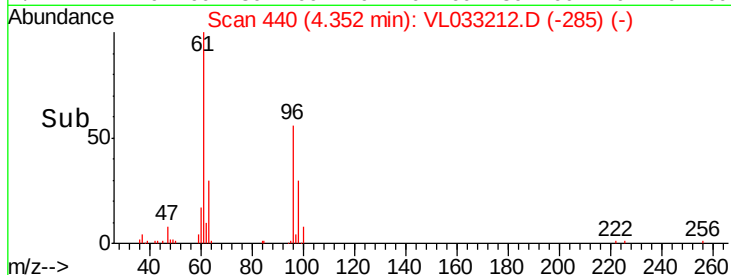
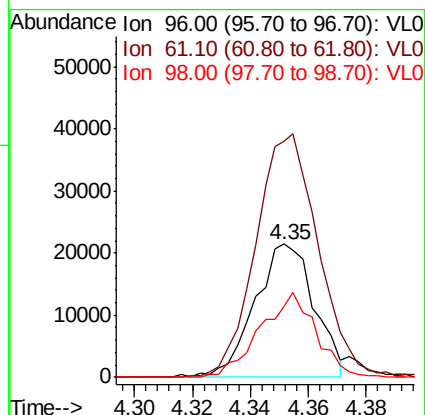
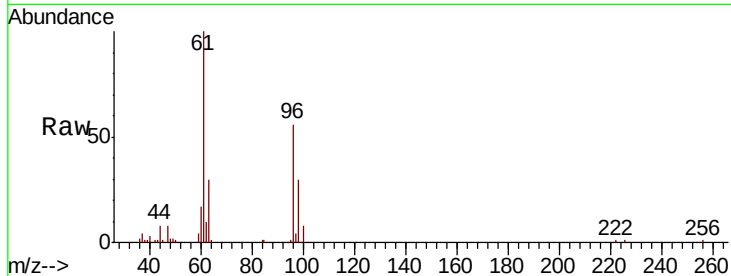
Time-->





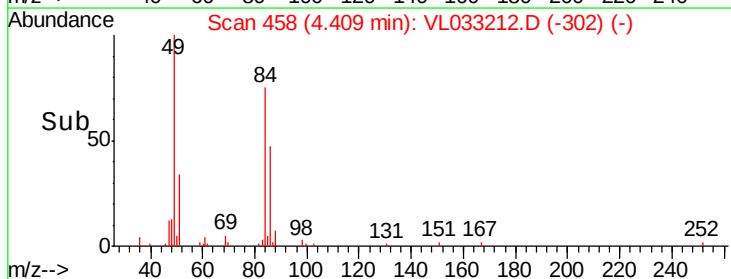
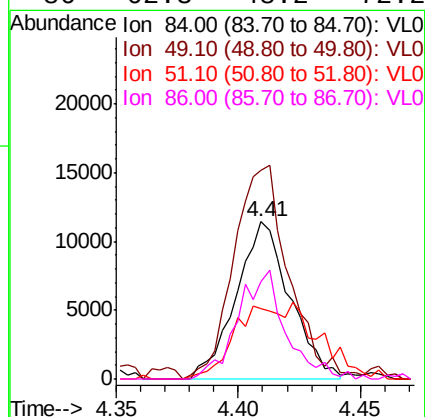
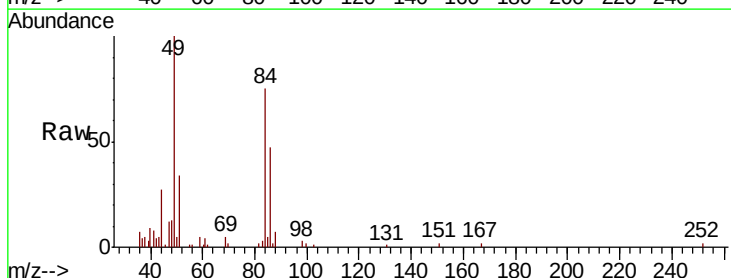
#18
 1,1-Dichloroethene
 Concen: 0.673 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VL033212.D
 Acq: 15 Feb 2019 00:12

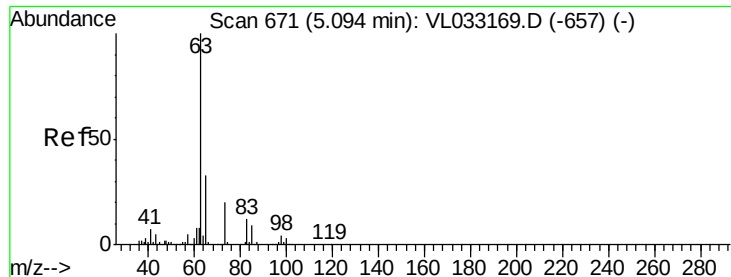
Tot Ion: 96 Resp: 30425
 Ion Ratio Lower Upper
 96 100
 61 175.6 145.0 217.6
 98 52.8 50.0 75.0



#20
 Methylene Chloride
 Concen: 0.416 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033212.D
 Acq: 15 Feb 2019 00:12

Tgt Ion: 84 Resp: 17553
 Ion Ratio Lower Upper
 84 100
 49 130.8 115.8 173.8
 51 43.4 33.0 49.6
 86 62.3 48.2 72.2

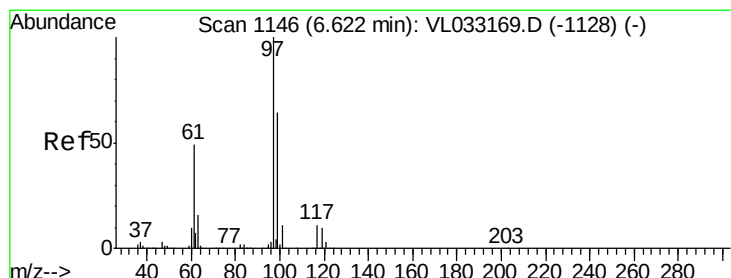
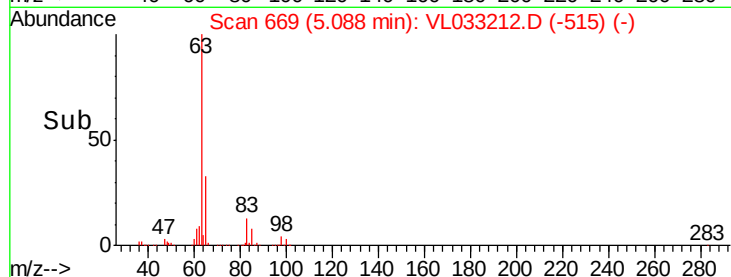
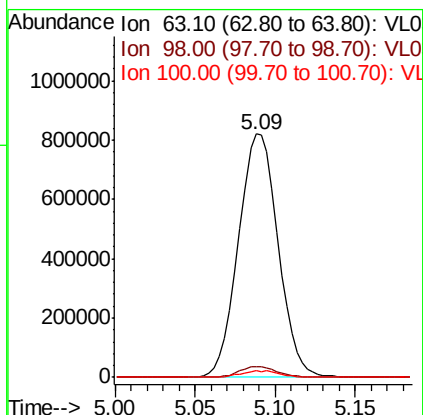
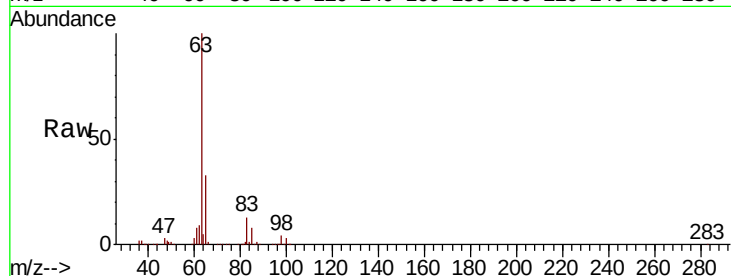




#24
 1,1-Dichloroethane
 Concen: 10.665 ppbv
 RT: 5.09 min Scan# 669
 Delta R.T. -0.01 min
 Lab File: VL033212.D
 Acq: 15 Feb 2019 00:12

Tot Ion: 63 Resp: 1387706

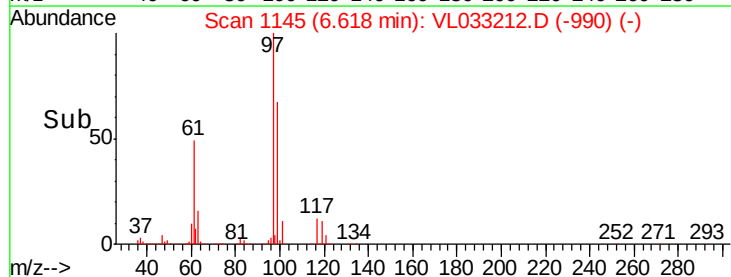
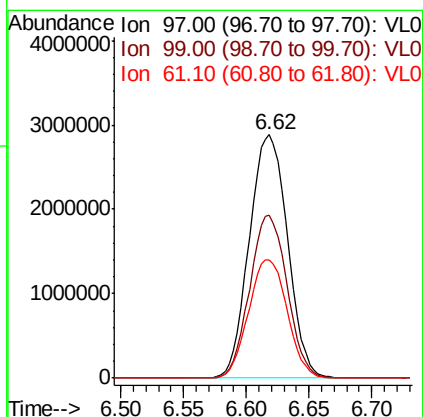
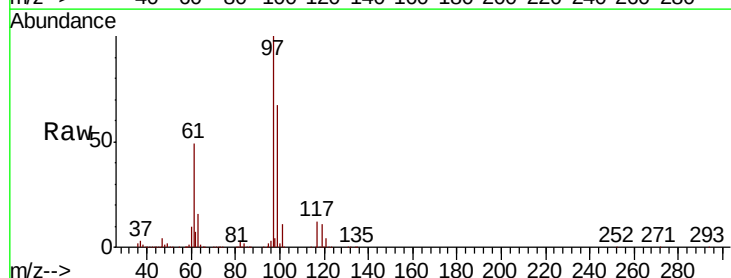
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.8	1.4	4.2

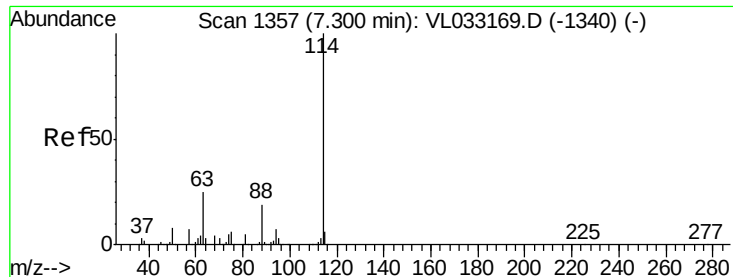


#32
 1,1,1-Trichloroethane
 Concen: 32.484 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033212.D
 Acq: 15 Feb 2019 00:12

Tgt Ion: 97 Resp: 6141216

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.4	77.2
61	49.2	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033212.D

Acq: 15 Feb 2019 00:12

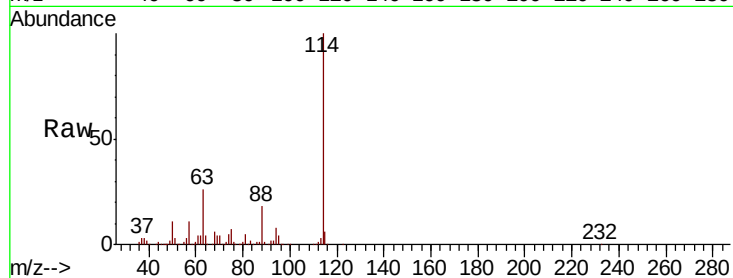
Tot Ion:114 Resp: 2106945

Ion Ratio Lower Upper

114 100

63 27.0 20.8 31.2

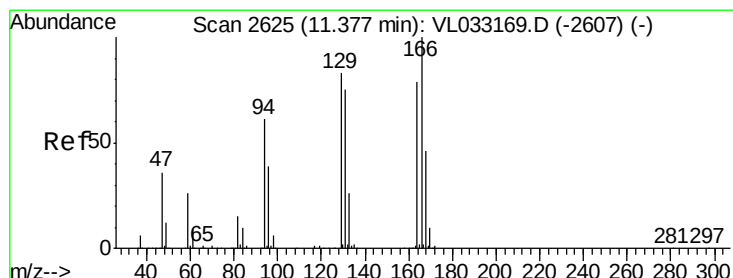
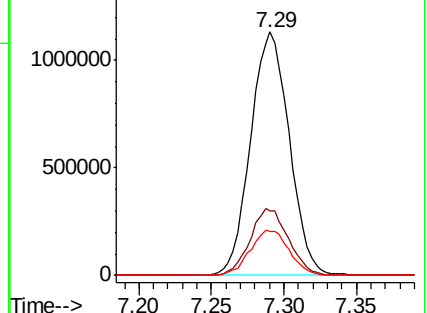
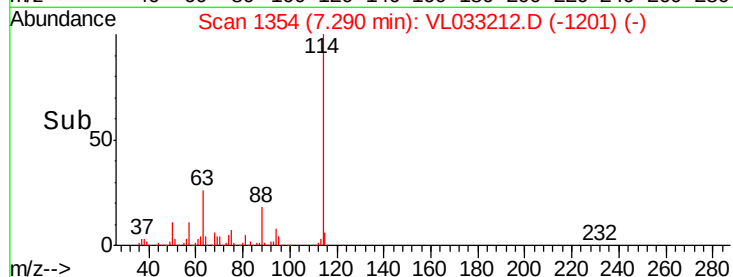
88 18.6 14.6 22.0



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



#52

Tetrachloroethene

Concen: 0.202 ppbv m

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033212.D

Acq: 15 Feb 2019 00:12

Tgt Ion:164 Resp: 16600

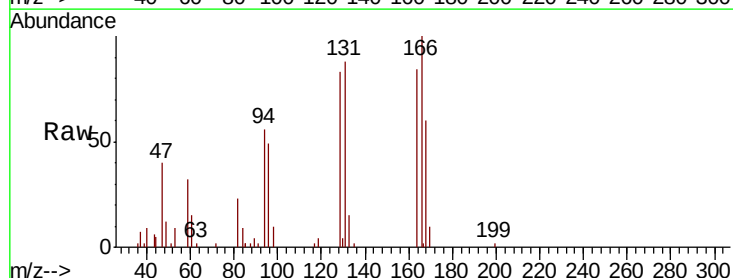
Ion Ratio Lower Upper

164 100

166 119.7 100.9 151.3

129 99.4 83.9 125.9

131 104.7 76.2 114.2

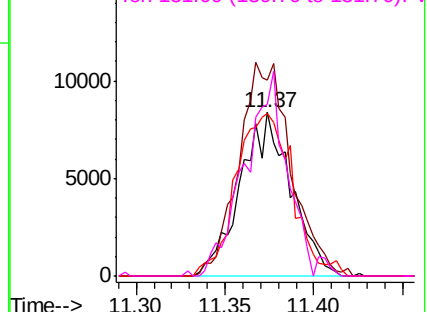
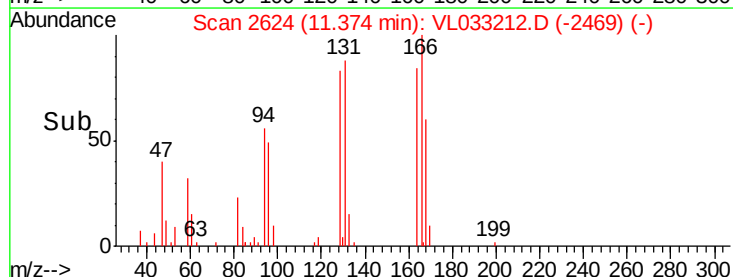


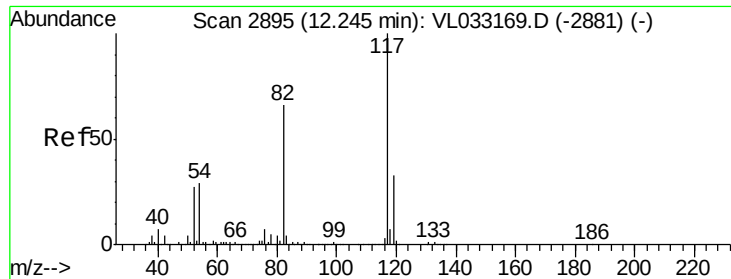
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

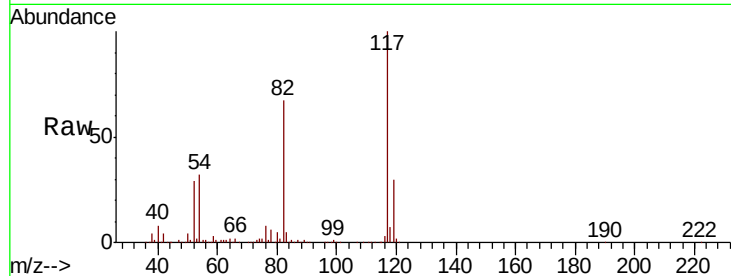




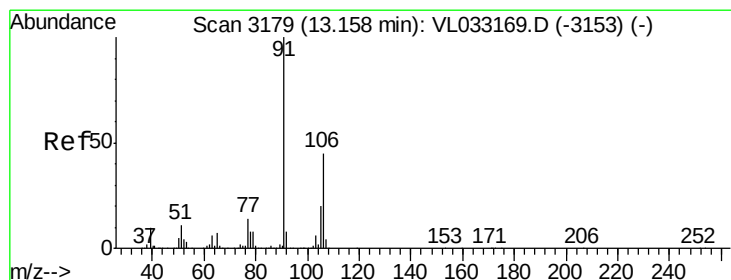
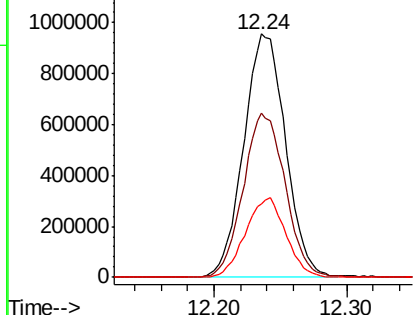
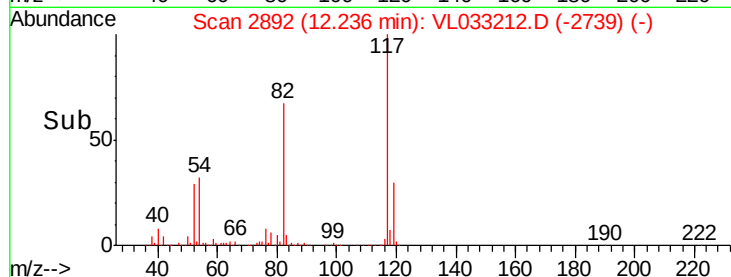
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033212.D
Acq: 15 Feb 2019 00:12

Tot Ion:117 Resp: 2104678

Ion	Ratio	Lower	Upper
117	100		
82	67.9	53.8	80.8
119	31.8	46.9	70.3#



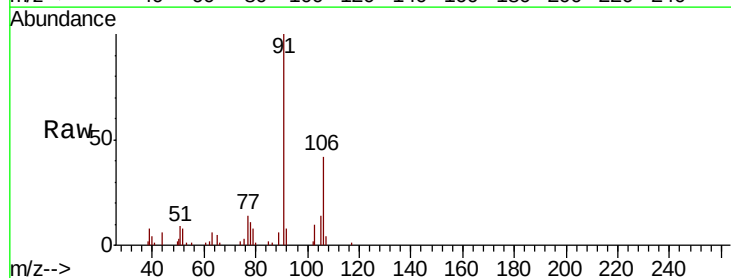
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



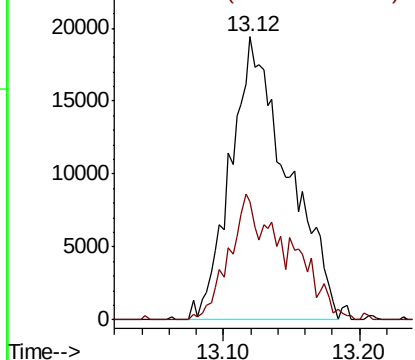
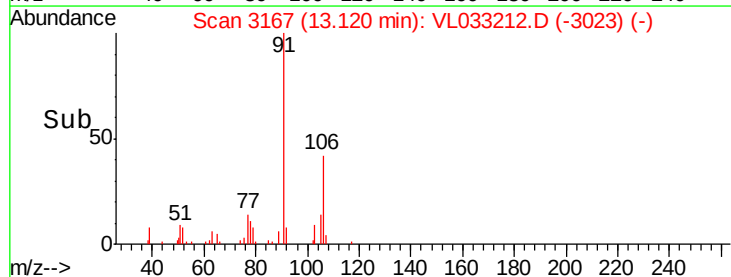
#59
m/p-Xylene
Concen: 0.197 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL033212.D
Acq: 15 Feb 2019 00:12

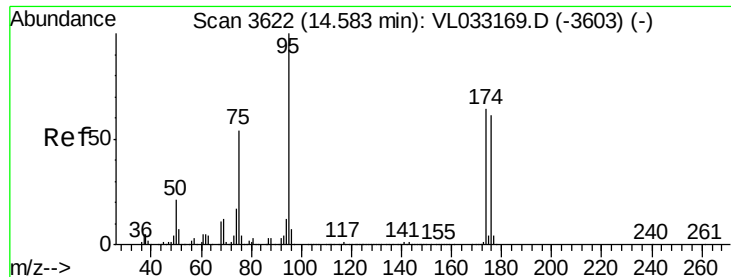
Tgt Ion: 91 Resp: 56601

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.292 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033212.D

Acq: 15 Feb 2019 00:12

Tot Ion: 95 Resp: 1688047

Ion	Ratio	Lower	Upper
95	100		
174	63.0	51.1	76.7
175	4.5	3.8	5.6

