

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011019\
 Data File : VF061351.D
 Acq On : 10 Jan 2019 18:40
 Operator : VA/AP
 Sample : K1094-03
 Misc : 3.17g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 11 01:11:48 2019
 Quant Method : Z:\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	111574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	246818	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	137339	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	26701	50.00	ug/l	0.00

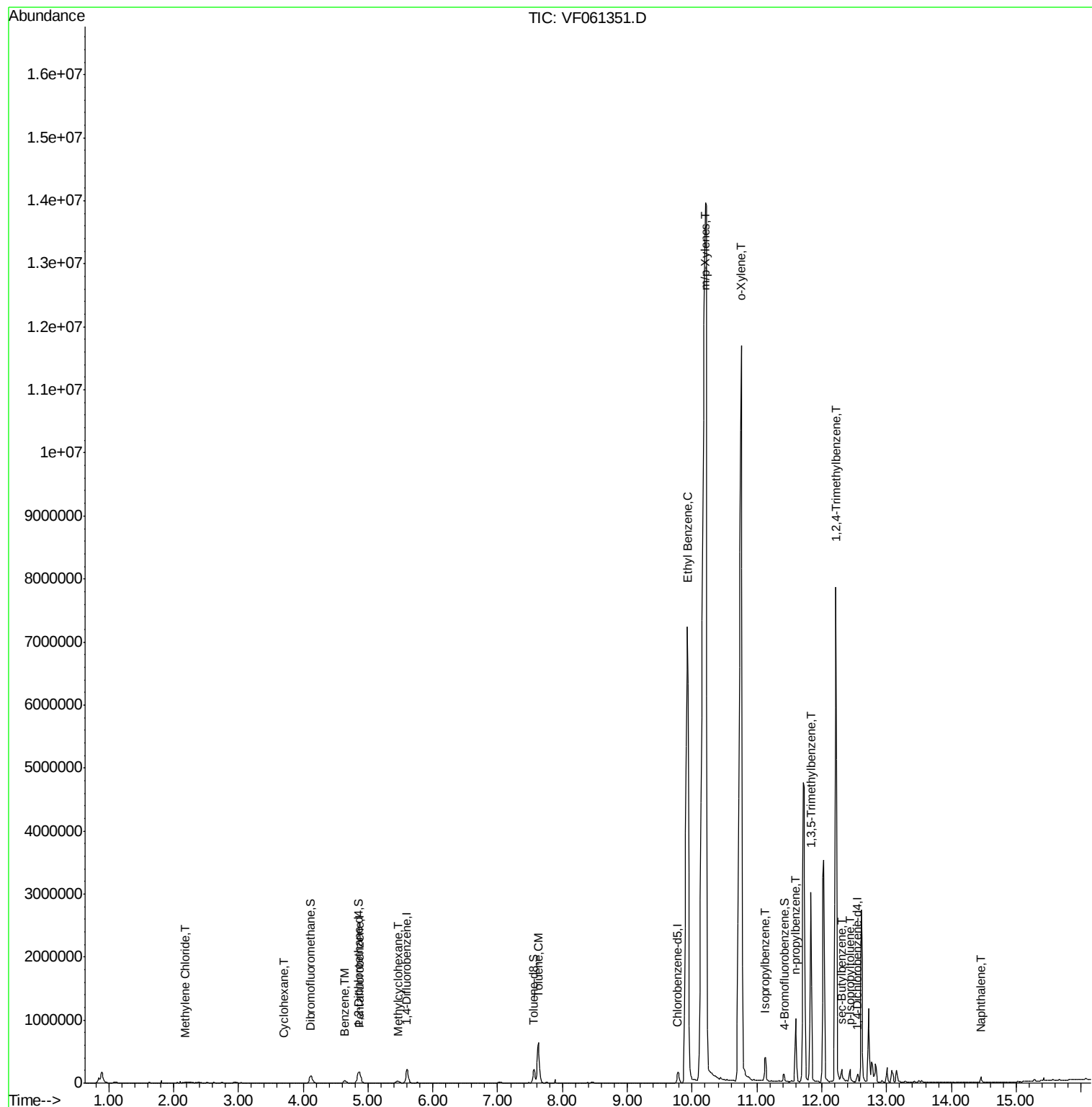
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	110179	88.72	ug/l	0.00
Spiked Amount			Recovery	=	177.44%	
35) Dibromofluoromethane	4.12	113	113948	60.34	ug/l	0.00
Spiked Amount			Recovery	=	120.68%	
50) Toluene-d8	7.56	98	184775	33.06	ug/l	0.00
Spiked Amount			Recovery	=	66.12%	
62) 4-Bromofluorobenzene	11.42	95	43774	17.94	ug/l	0.00
Spiked Amount			Recovery	=	35.88%	

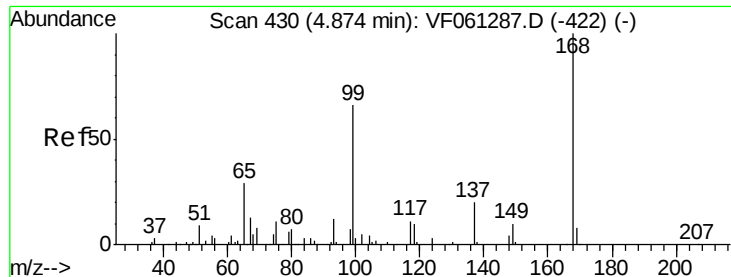
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Methylene Chloride	2.19	84	7979m	6.528	ug/l	
31) Cyclohexane	3.69	56	3502	1.392	ug/l #	71
39) Methylcyclohexane	5.45	83	20564	5.702	ug/l #	83
40) Benzene	4.64	78	47554	7.067	ug/l	93
52) Toluene	7.63	92	366455	84.727	ug/l	99
67) Ethyl Benzene	9.93	91	7967506	1490.009	ug/l #	77
68) m/p-Xylenes	10.21	106	9283567	4977.141	ug/l #	54
69) o-Xylene	10.76	106	4847048	2326.283	ug/l	65
73) Isopropylbenzene	11.13	105	270879	115.291	ug/l	98
78) n-propylbenzene	11.60	91	778321	277.837	ug/l	100
80) 1,3,5-Trimethylbenzene	11.83	105	1610344	861.355	ug/l	94
84) 1,2,4-Trimethylbenzene	12.22	105	3966272	2136.829	ug/l	94
85) sec-Butylbenzene	12.31	105	89526m	33.756	ug/l	
86) p-Isopropyltoluene	12.43	119	112696	52.242	ug/l	96
95) Naphthalene	14.46	128	57174	50.601	ug/l	99

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

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Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF061351.D

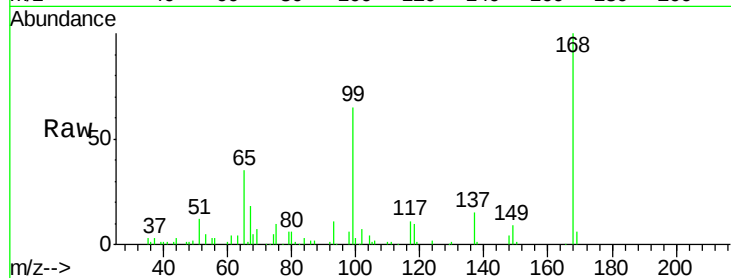
Acq: 10 Jan 2019 18:40

Tot Ion:168 Resp: 111574

Ion Ratio Lower Upper

168 100

99 64.7 52.7 79.1

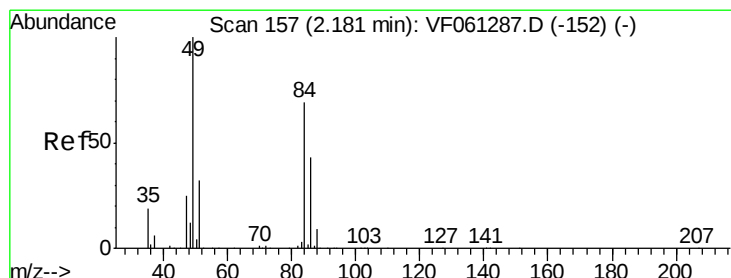
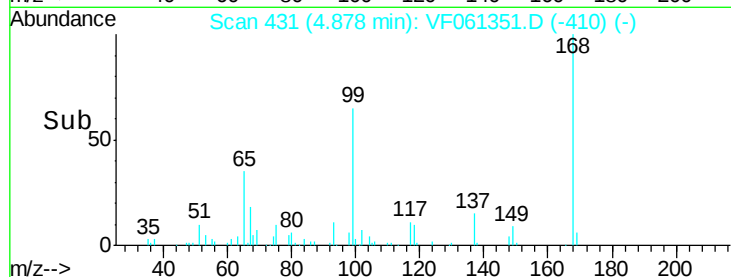


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

Time-->



#20

Methylene Chloride

Concen: 6.528 ug/l m

RT: 2.19 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF061351.D

Acq: 10 Jan 2019 18:40

Tgt Ion: 84 Resp: 7979

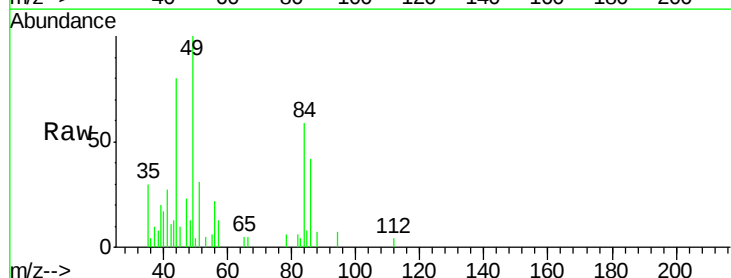
Ion Ratio Lower Upper

84 100

49 170.4 116.6 175.0

51 53.0 37.7 56.5

86 72.0 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VF0

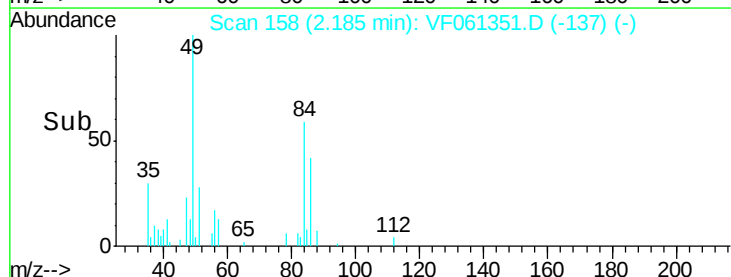
Ion 49.00 (48.70 to 49.70): VF0

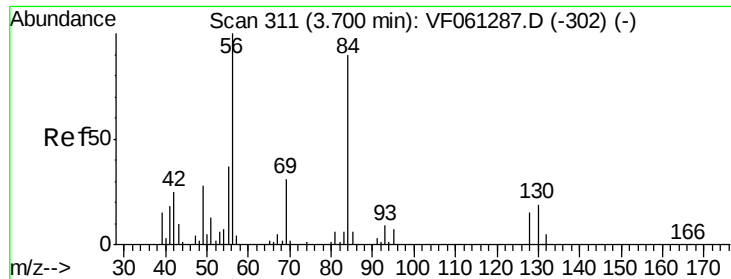
Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

2.19

Time-->





#31

Cyclohexane

Concen: 1.392 ug/l

RT: 3.69 min Scan# 311

Delta R.T. -0.01 min

Lab File: VF061351.D

Acq: 10 Jan 2019 18:40

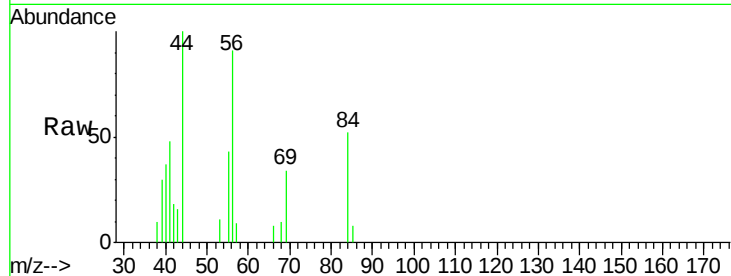
Tot Ion: 56 Resp: 3502

Ion Ratio Lower Upper

56 100

69 36.9 24.7 37.1

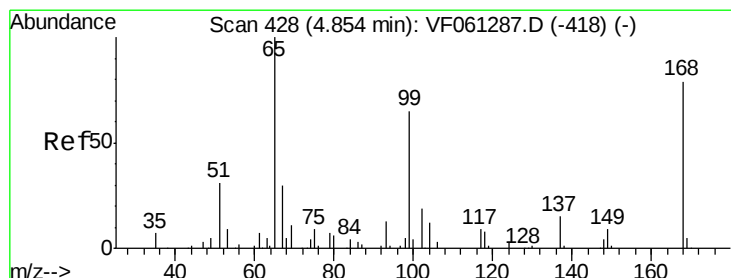
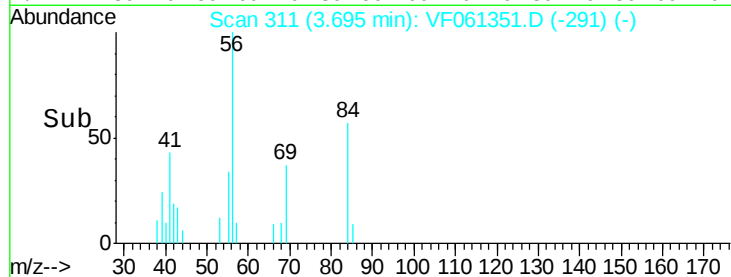
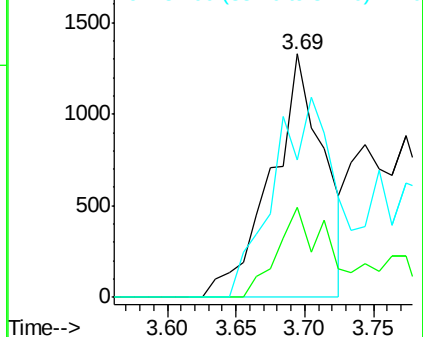
84 56.6 72.2 108.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 88.719 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061351.D

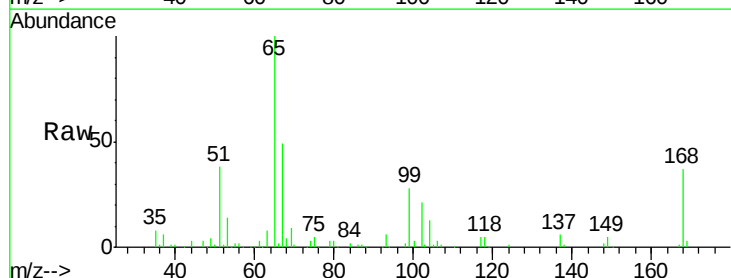
Acq: 10 Jan 2019 18:40

Tgt Ion: 65 Resp: 110179

Ion Ratio Lower Upper

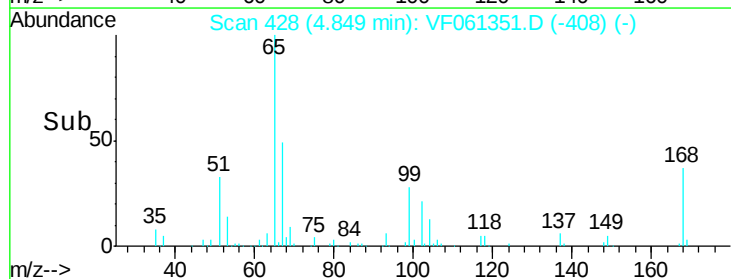
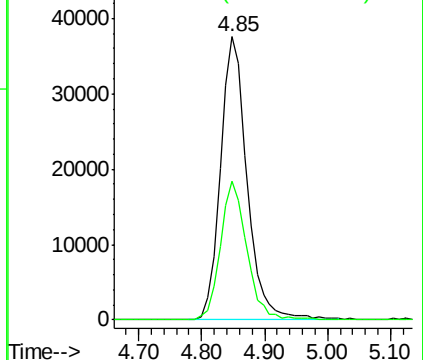
65 100

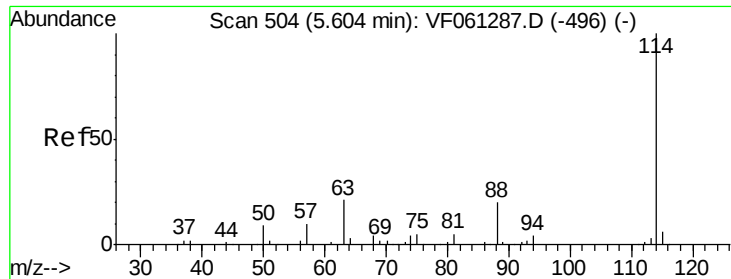
67 49.2 0.0 98.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

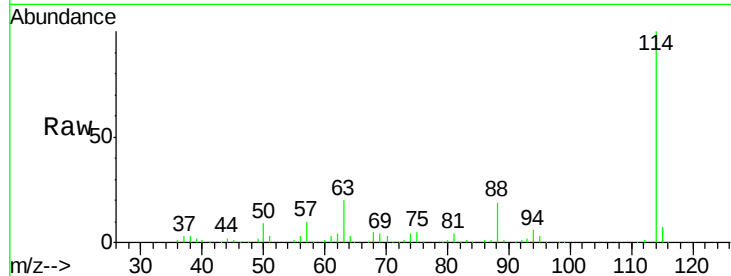
Ion 67.00 (66.70 to 67.70): VF0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.60 min Scan# 504
Delta R.T. -0.01 min
Lab File: VF061351.D
Acq: 10 Jan 2019 18:40

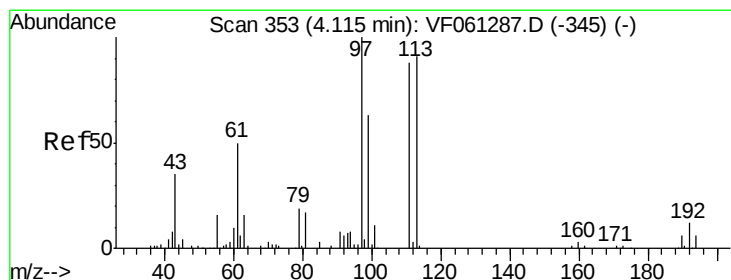
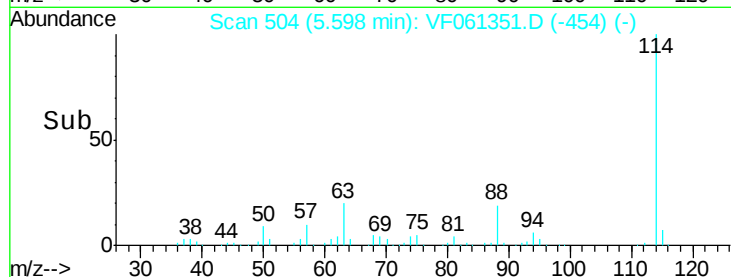
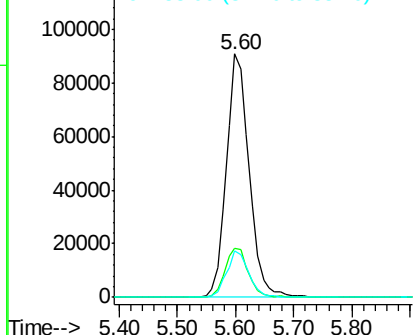
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.8
88	19.3	0.0	40.0



Abundance Ion 114.00 (113.70 to 114.70): V

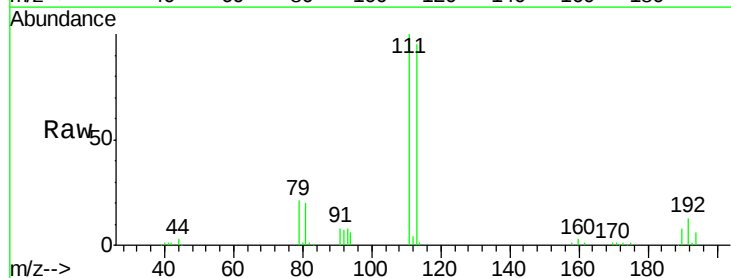
Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35
Dibromofluoromethane
Concen: 60.336 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.00 min
Lab File: VF061351.D
Acq: 10 Jan 2019 18:40

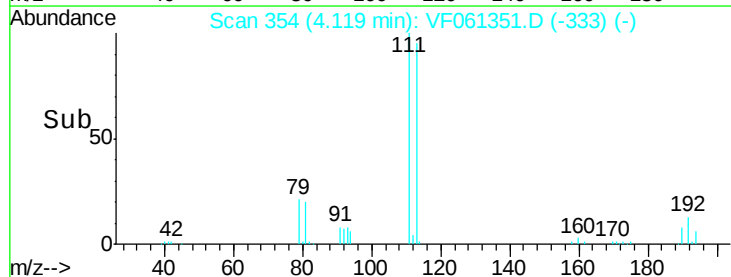
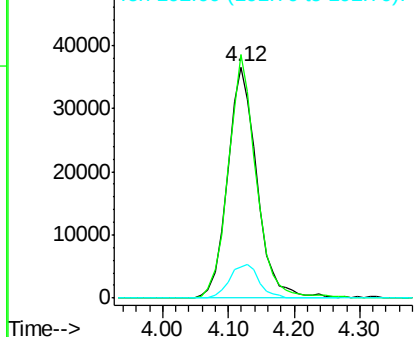
Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.3	78.0	117.0
192	13.7	10.6	16.0

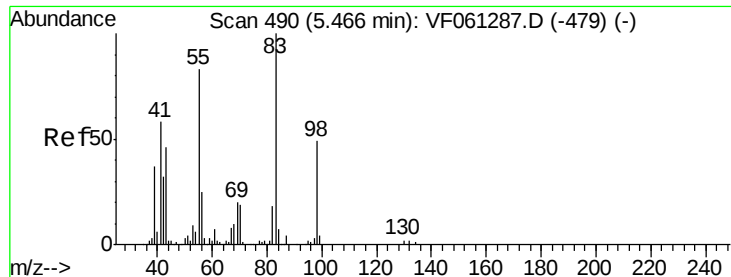


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

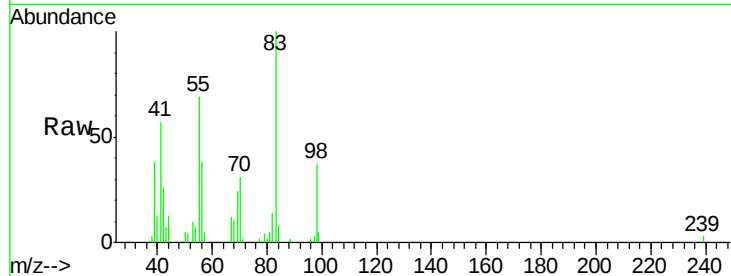
Ion 192.00 (191.70 to 192.70): V



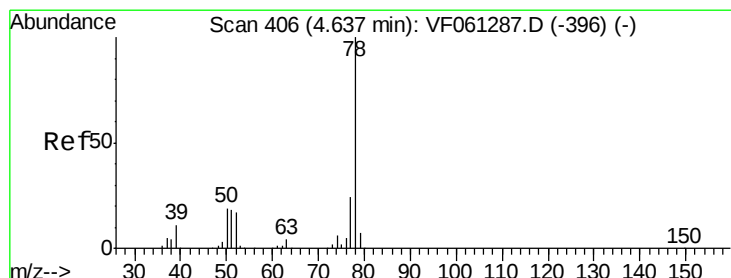
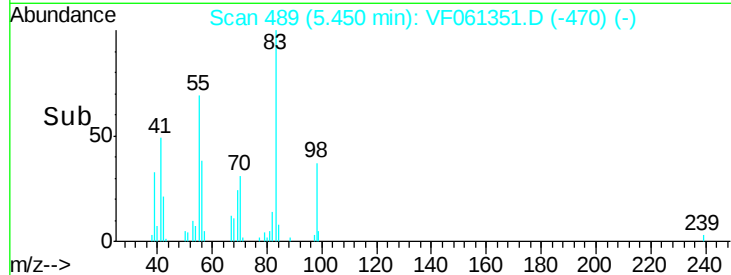
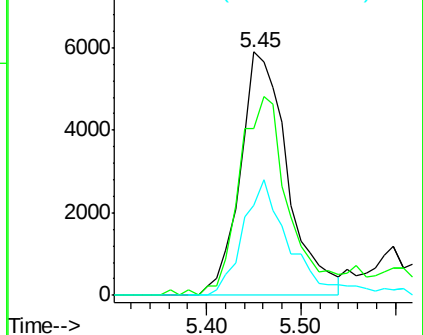


#39
Methvlcvclohexane
Concen: 5.702 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.02 min
Lab File: VF061351.D
Acq: 10 Jan 2019 18:40

Tot Ion: 83 Resp: 20564
Ion Ratio Lower Upper
83 100
55 68.6 66.4 99.6
98 36.7 39.1 58.7#

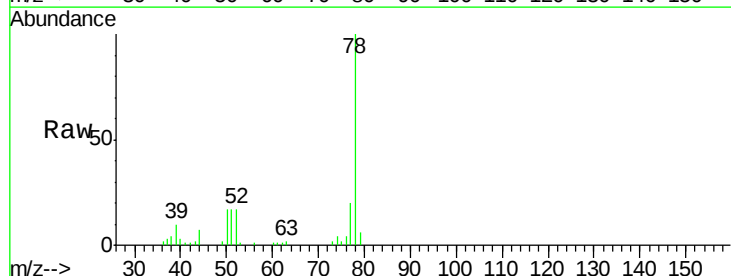


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

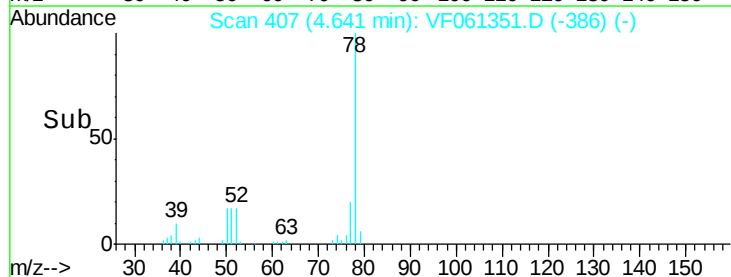
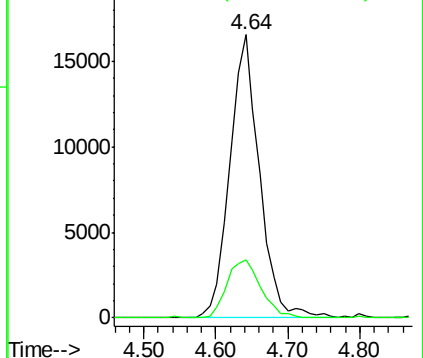


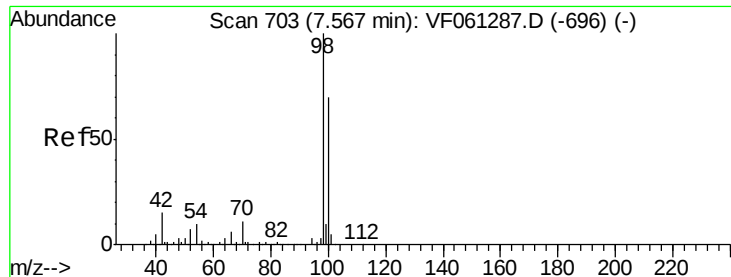
#40
Benzene
Concen: 7.067 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.00 min
Lab File: VF061351.D
Acq: 10 Jan 2019 18:40

Tgt Ion: 78 Resp: 47554
Ion Ratio Lower Upper
78 100
77 20.5 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0





#50

Toluene-d8

Concen: 33.062 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF061351.D

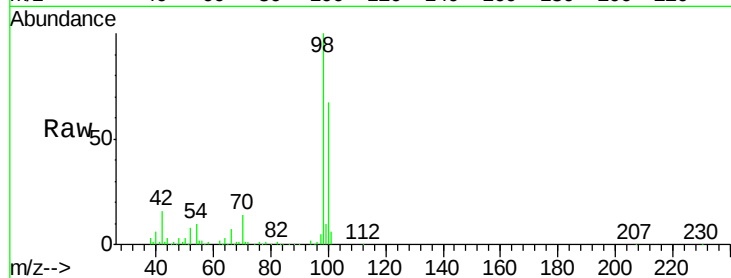
Acq: 10 Jan 2019 18:40

Tot Ion: 98 Resp: 184775

Ion Ratio Lower Upper

98 100

100 67.5 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

80000

60000

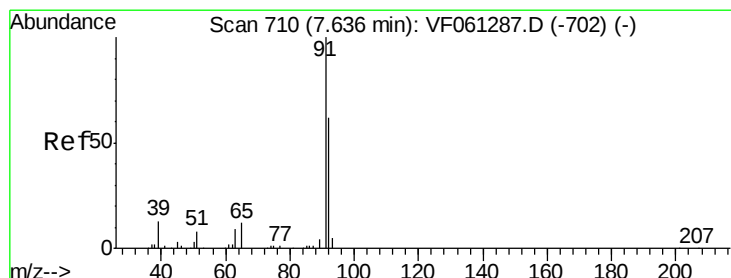
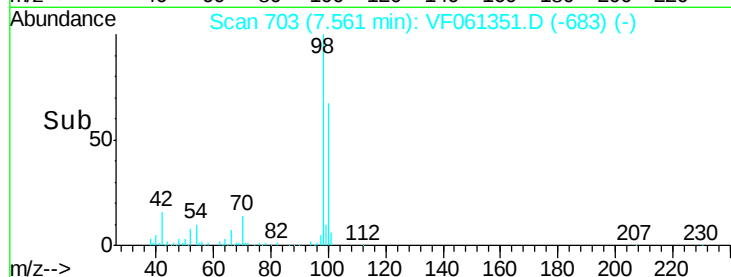
40000

20000

0

Time-->

7.40 7.50 7.60 7.70



#52

Toluene

Concen: 84.727 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF061351.D

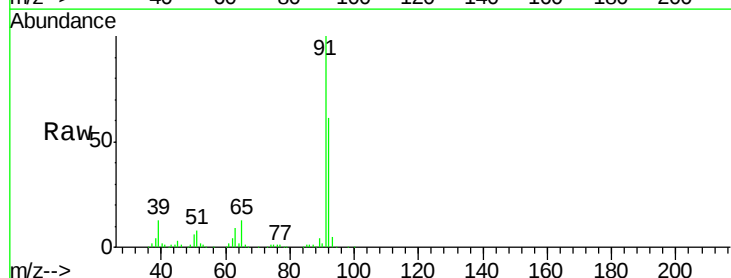
Acq: 10 Jan 2019 18:40

Tgt Ion: 92 Resp: 366455

Ion Ratio Lower Upper

92 100

91 163.1 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

300000

250000

200000

150000

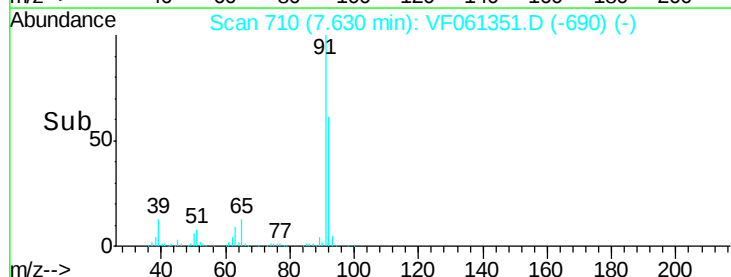
100000

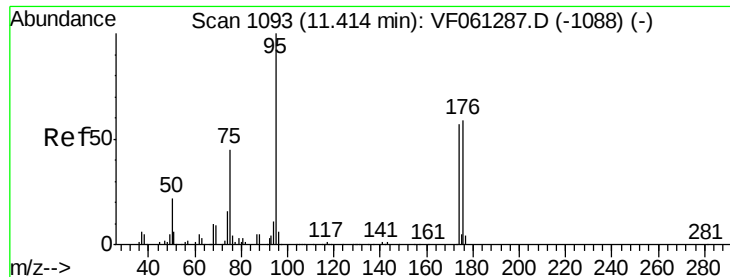
50000

0

Time-->

7.50 7.60 7.70 7.80





#62

4-Bromofluorobenzene

Concen: 17.937 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061351.D

Acq: 10 Jan 2019 18:40

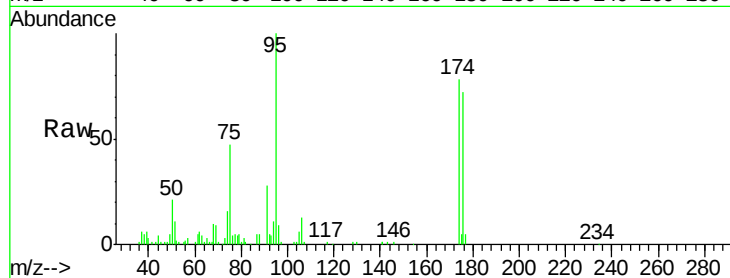
Tot Ion: 95 Resp: 43774

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	114.2
176	71.9	0.0	117.8

95 100

174 78.4 0.0 114.2

176 71.9 0.0 117.8



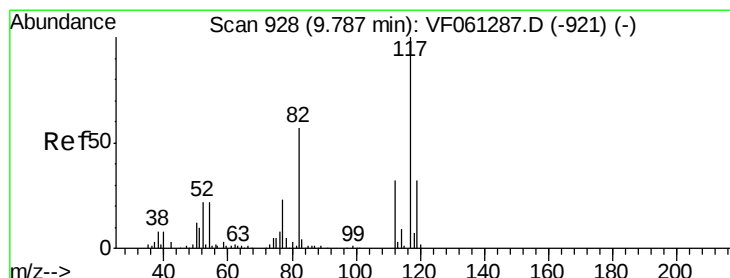
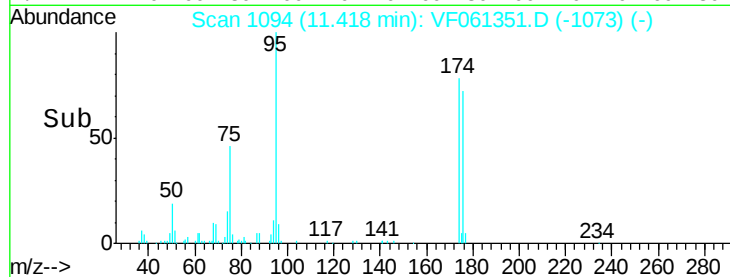
Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.42

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.01 min

Lab File: VF061351.D

Acq: 10 Jan 2019 18:40

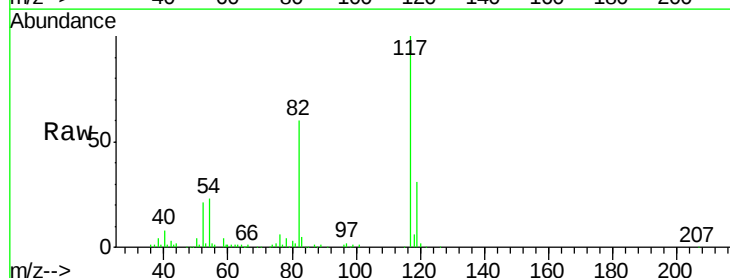
Tgt Ion: 117 Resp: 137339

Ion	Ratio	Lower	Upper
117	100		
82	59.8	45.3	67.9
119	30.9	25.4	38.0

117 100

82 59.8 45.3 67.9

119 30.9 25.4 38.0



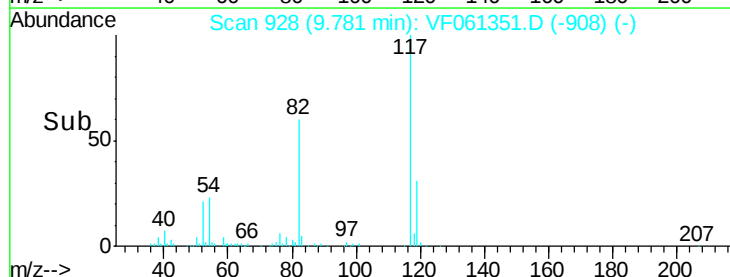
Abundance Ion 117.00 (116.70 to 117.70): V

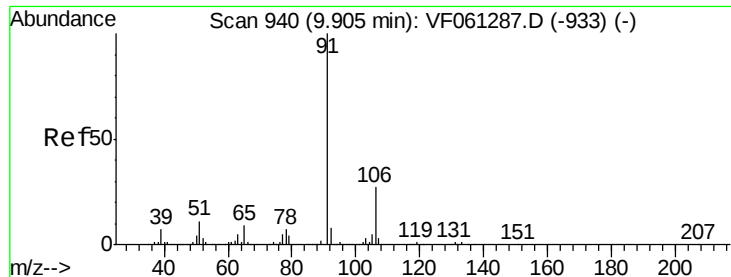
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

9.78

Time-->





#67

Ethyl Benzene

Concen: 1490.009 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.02 min

Lab File: VF061351.D

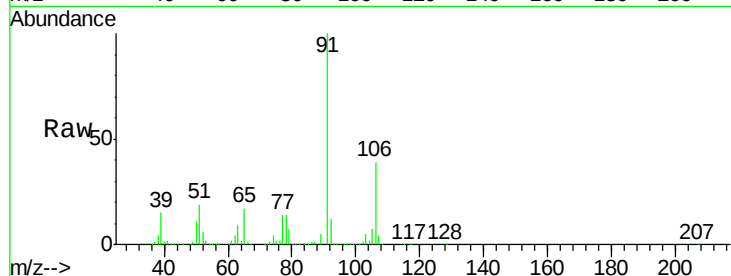
Acq: 10 Jan 2019 18:40

Tot Ion: 91 Resp: 7967506

Ion Ratio Lower Upper

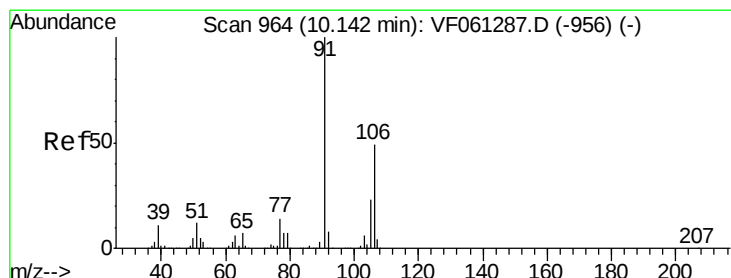
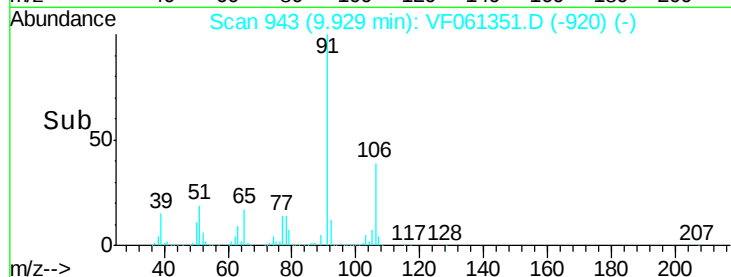
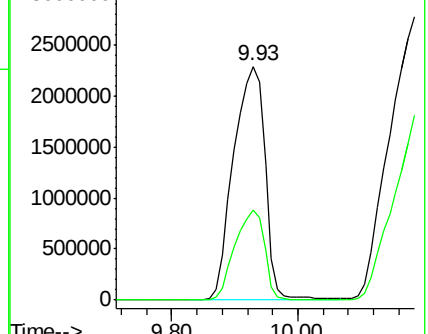
91 100

106 38.7 21.4 32.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 4977.141 ug/l

RT: 10.21 min Scan# 972

Delta R.T. 0.07 min

Lab File: VF061351.D

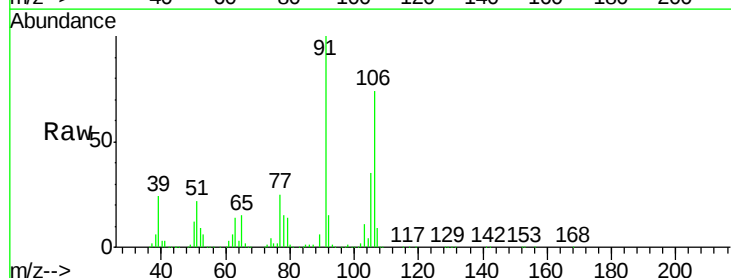
Acq: 10 Jan 2019 18:40

Tgt Ion: 106 Resp: 9283567

Ion Ratio Lower Upper

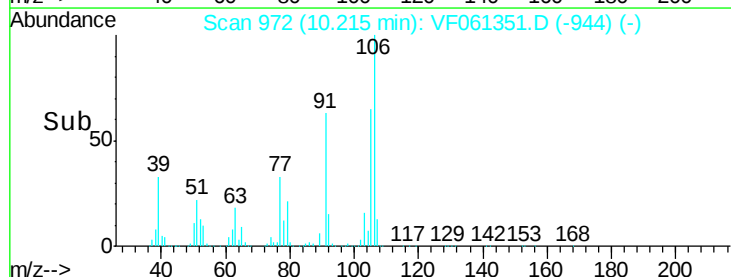
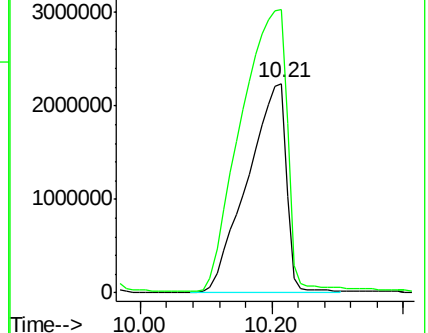
106 100

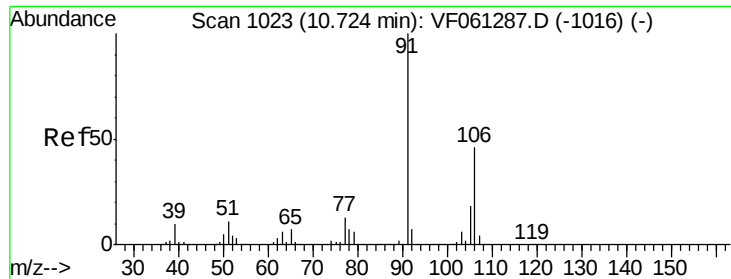
91 134.9 165.0 247.6#



Abundance Ion 106.00 (105.70 to 106.70): V

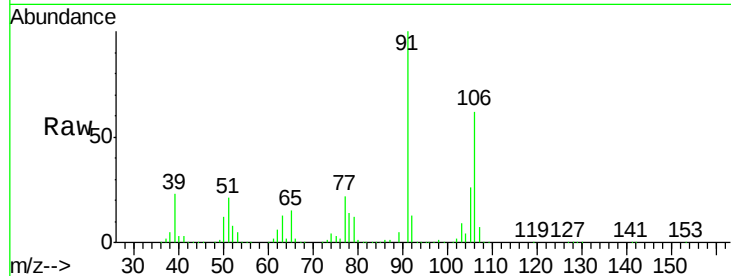
Ion 91.00 (90.70 to 91.70): VF0



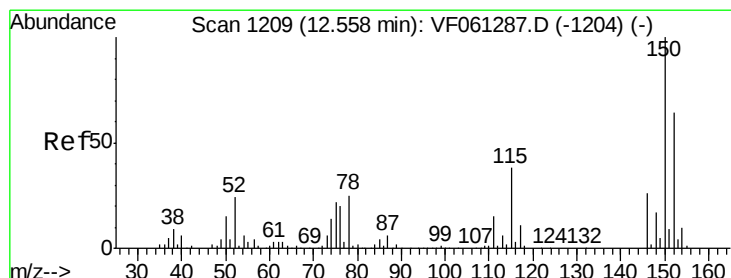
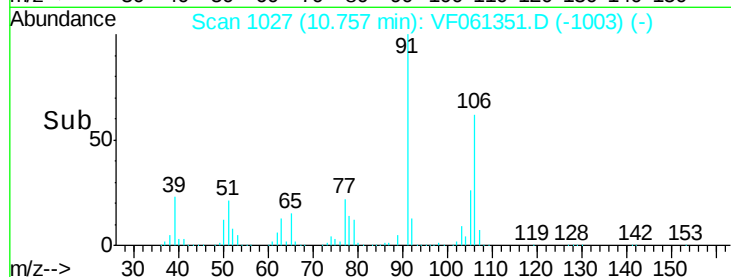
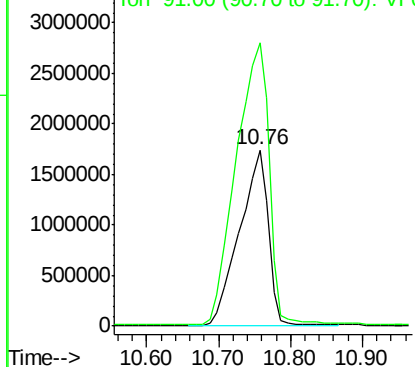


#69
o-Xylene
Concen: 2326.283 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. 0.03 min
Lab File: VF061351.D
Acq: 10 Jan 2019 18:40

Tot Ion:106 Resp: 4847048
Ion Ratio Lower Upper
106 100
91 160.8 108.1 324.4

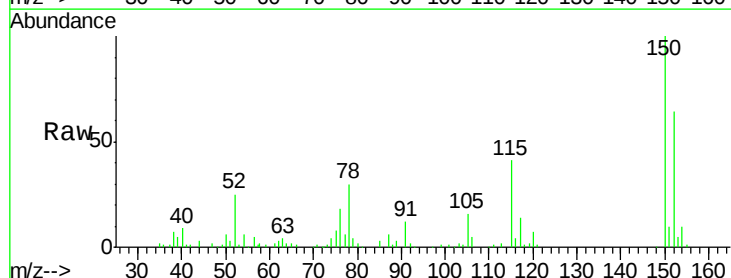


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

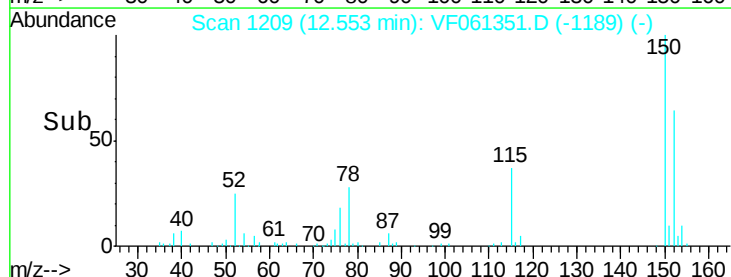
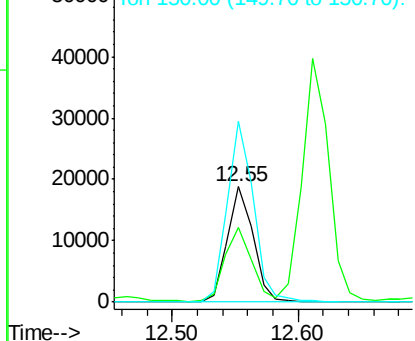


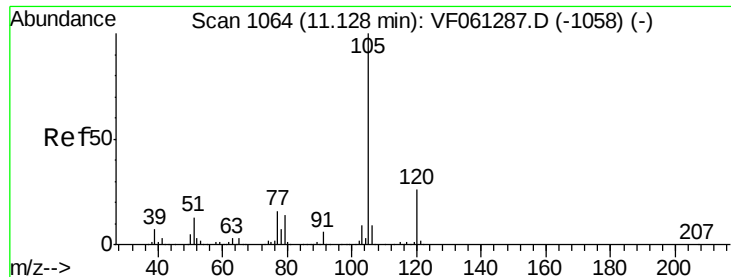
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061351.D
Acq: 10 Jan 2019 18:40

Tgt Ion:152 Resp: 26701
Ion Ratio Lower Upper
152 100
115 64.7 29.6 88.9
150 156.1 0.0 315.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 115.291 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF061351.D

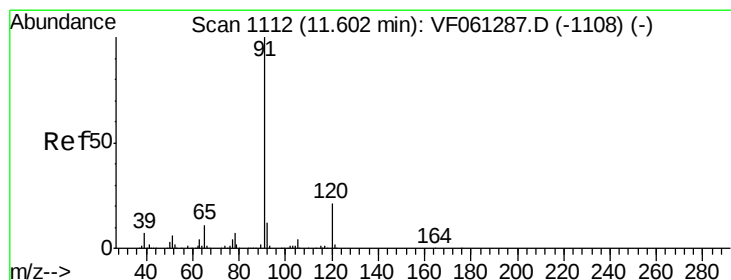
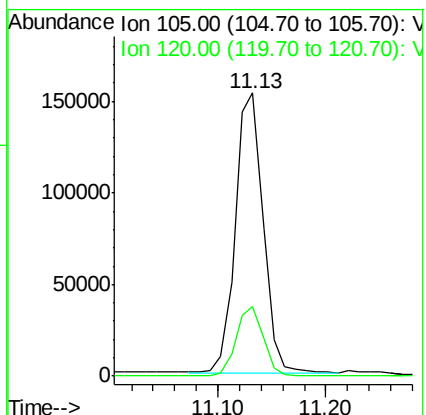
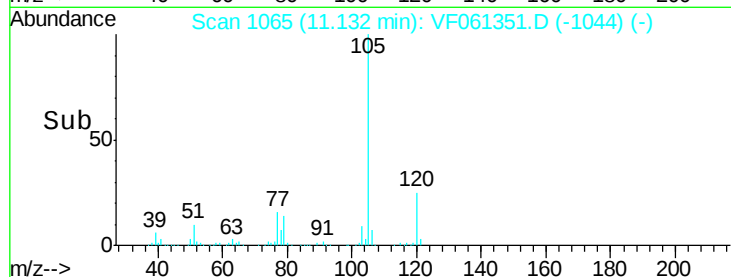
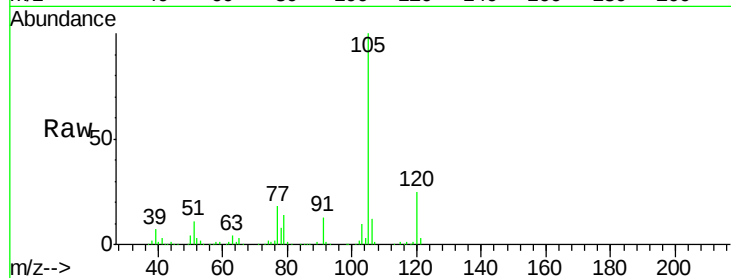
Acq: 10 Jan 2019 18:40

Tot Ion:105 Resp: 270879

Ion Ratio Lower Upper

105 100

120 24.8 12.9 38.7



#78

n-propylbenzene

Concen: 277.837 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF061351.D

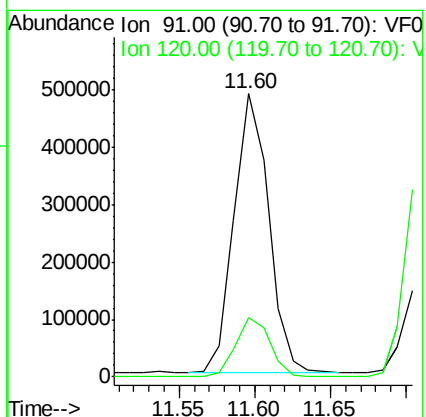
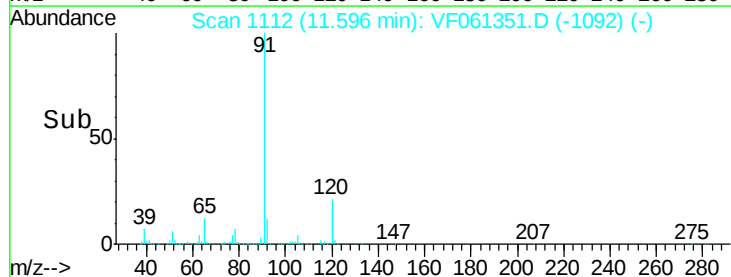
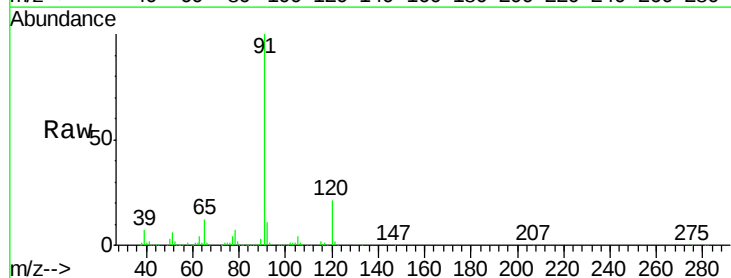
Acq: 10 Jan 2019 18:40

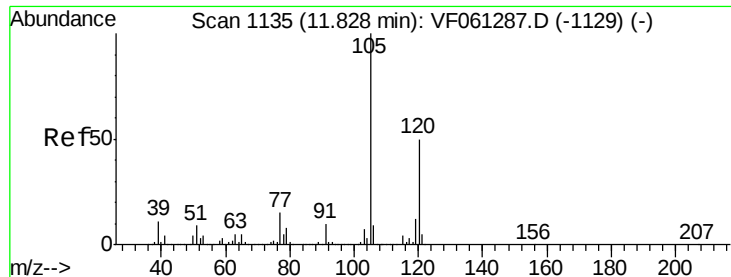
Tgt Ion: 91 Resp: 778321

Ion Ratio Lower Upper

91 100

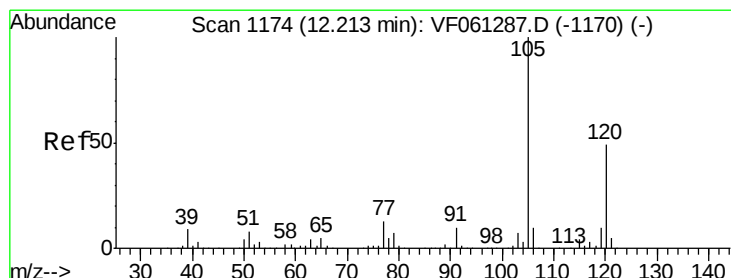
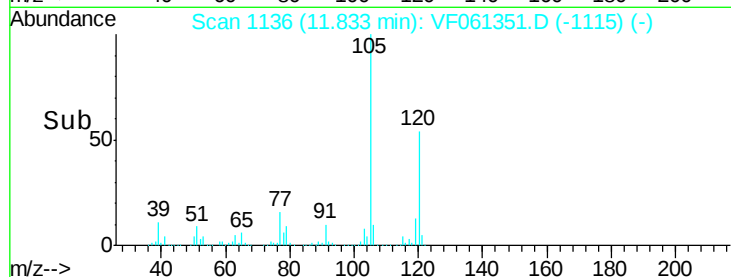
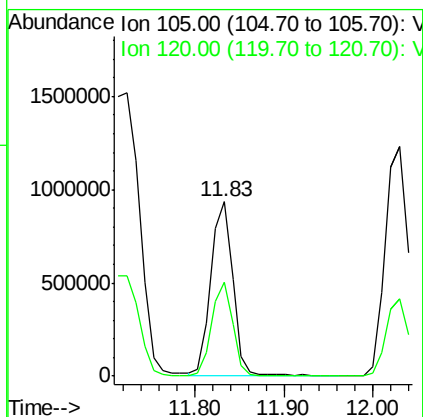
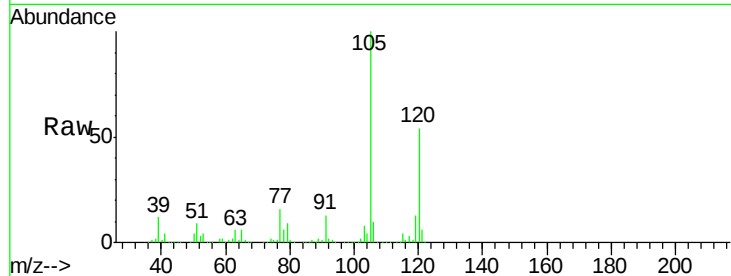
120 21.2 10.7 32.1





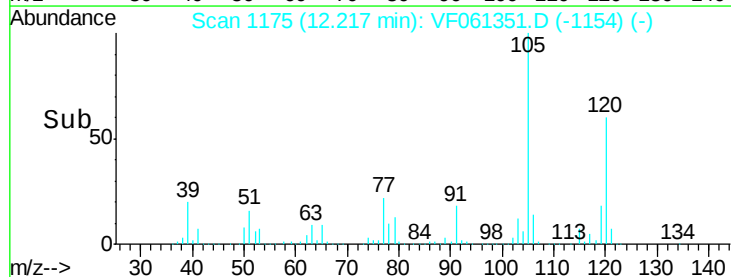
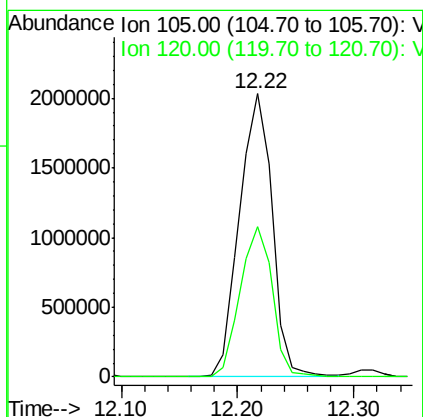
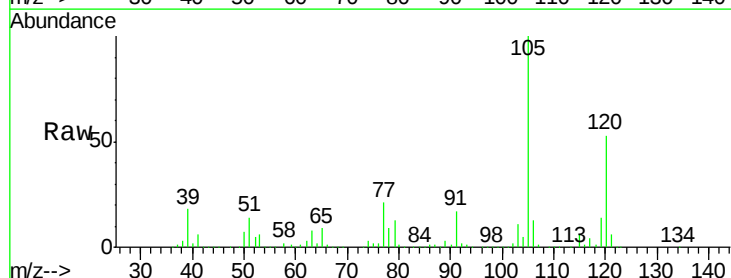
#80
 1,3,5-Trimethylbenzene
 Concen: 861.355 ug/l
 RT: 11.83 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: VF061351.D
 Acq: 10 Jan 2019 18:40

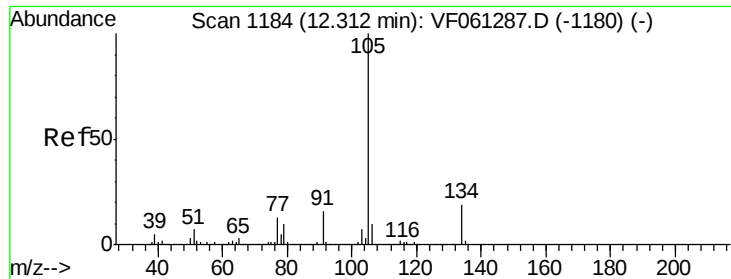
Tot Ion:105 Resp: 1610344
 Ion Ratio Lower Upper
 105 100
 120 54.2 25.2 75.6



#84
 1,2,4-Trimethylbenzene
 Concen: 2136.829 ug/l
 RT: 12.22 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VF061351.D
 Acq: 10 Jan 2019 18:40

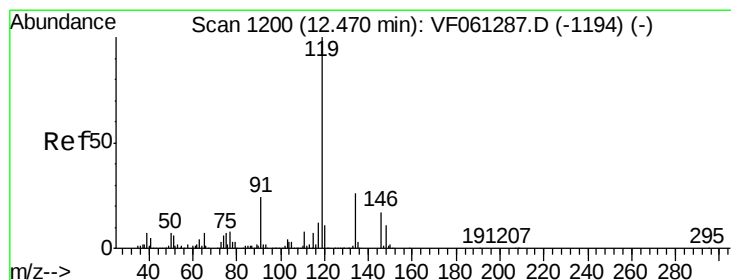
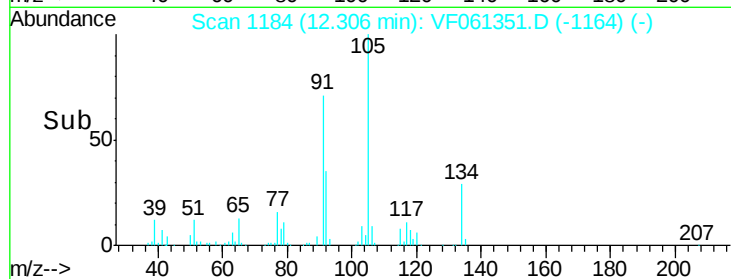
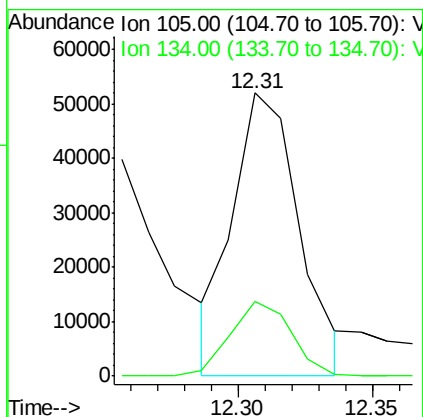
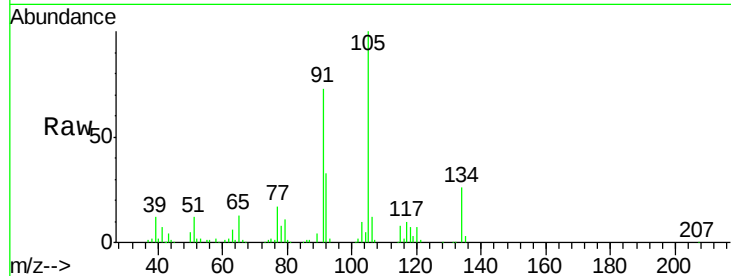
Tgt Ion:105 Resp: 3966272
 Ion Ratio Lower Upper
 105 100
 120 53.2 24.7 74.1





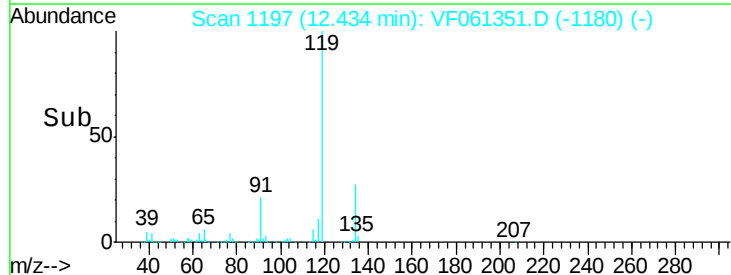
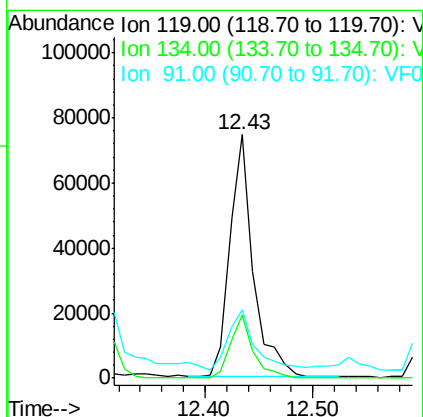
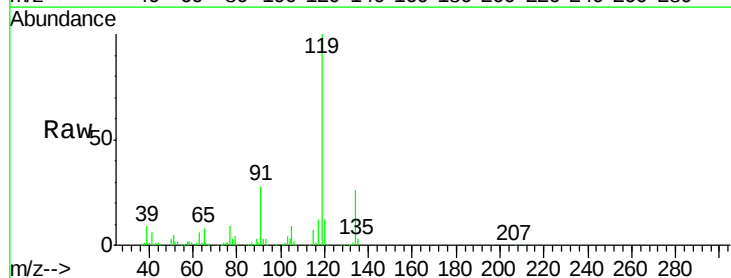
#85
 sec-Butylbenzene
 Concen: 33.756 ug/l m
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF061351.D
 Acq: 10 Jan 2019 18:40

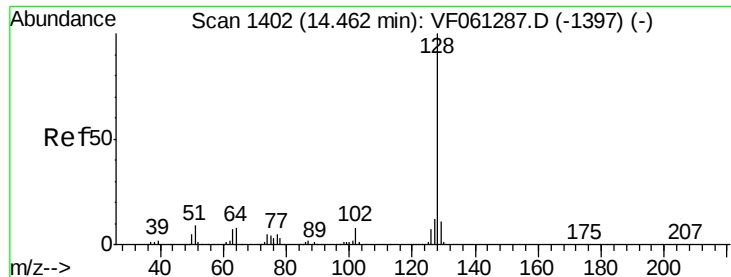
Tot Ion:105 Resp: 89526
 Ion Ratio Lower Upper
 105 100
 134 26.4 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 52.242 ug/l
 RT: 12.43 min Scan# 1197
 Delta R.T. -0.04 min
 Lab File: VF061351.D
 Acq: 10 Jan 2019 18:40

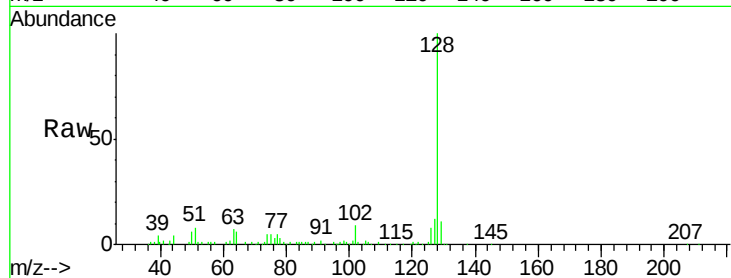
Tgt Ion:119 Resp: 112696
 Ion Ratio Lower Upper
 119 100
 134 25.7 13.0 39.0
 91 27.8 12.2 36.4





#95
 Naphthalene
 Concen: 50.601 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.01 min
 Lab File: VF061351.D
 Acq: 10 Jan 2019 18:40

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.4	14.0
129	11.3	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

