

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042718\
 Data File : BF104906.D
 Acq On : 28 Apr 2018 3:29
 Operator : JU/SJ
 Sample : J2520-15DL 100X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 28 04:40:06 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 27 17:16:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	83494	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	336757	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	138266	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	220786	20.00	ng	0.00
75) Chrysene-d12	13.98	240	199153	20.00	ng	0.00
86) Perylene-d12	15.44	264	157511	20.00	ng	0.00

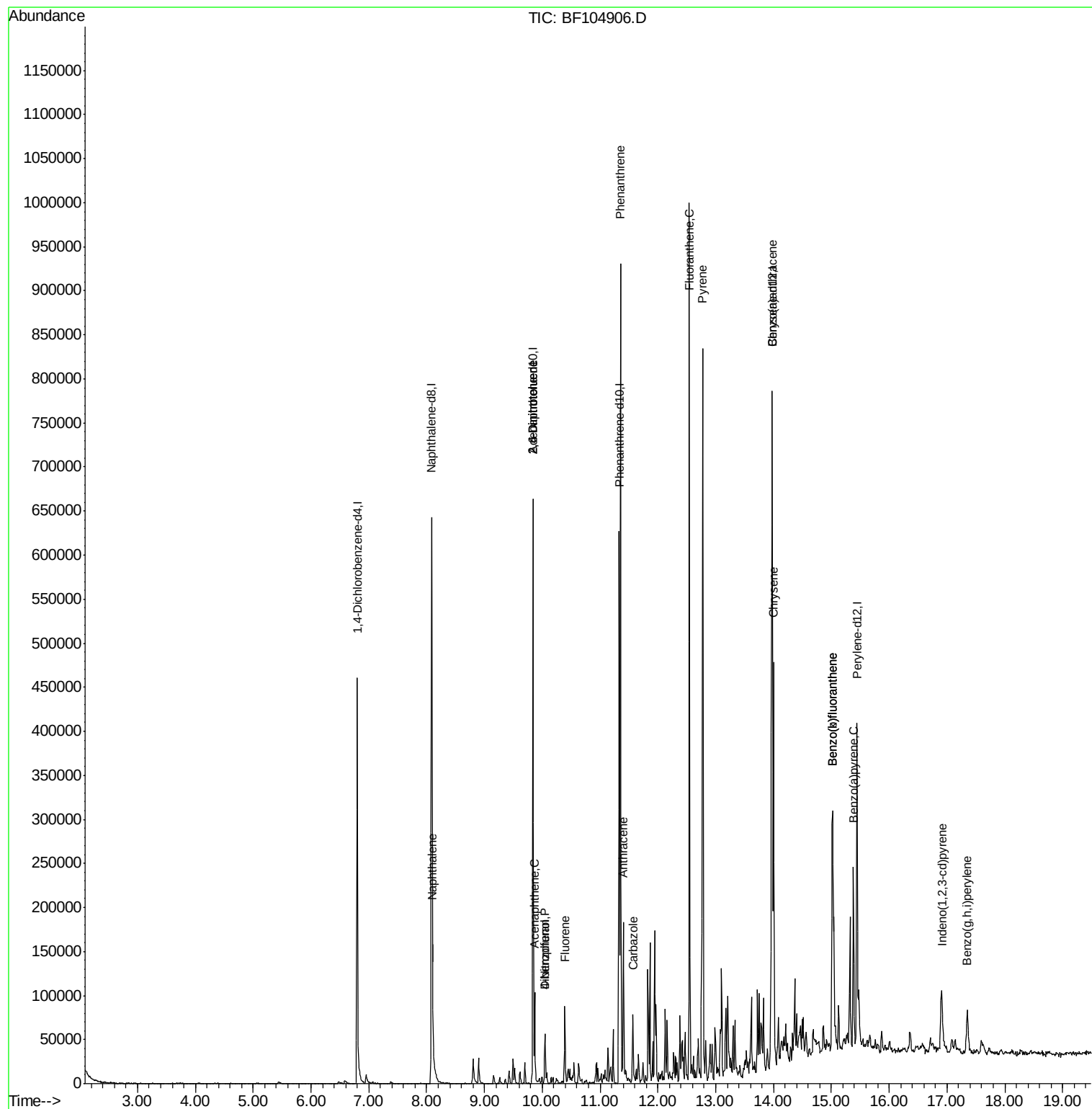
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	2450	0.45	ng	0.03
7) Phenol-d6	6.48	99	2766	0.41	ng	0.04
23) Nitrobenzene-d5	7.39	82	2064	0.40	ng	0.02
41) 2,4,6-Tribromophenol	10.64	330	745	0.52	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	5970	0.68	ng	0.00
78) Terphenyl-d14	12.92	244	5664	0.65	ng	0.00

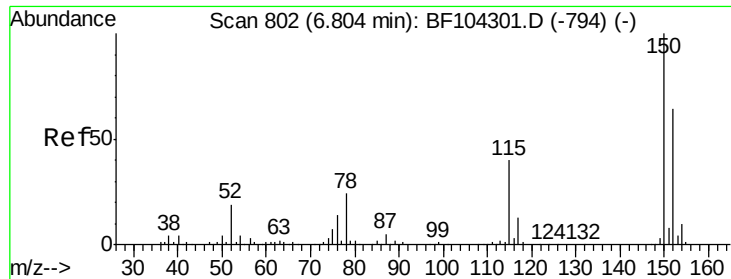
Target Compounds						Qvalue
31) Naphthalene	8.10	128	66166	3.95	ng	99
50) 2,6-Dinitrotoluene	9.84	165	17556	8.70	ng	# 26
51) Acenaphthene	9.87	154	21856	2.49	ng	99
54) Dibenzofuran	10.05	168	27447	2.24	ng	# 96
55) 4-Nitrophenol	10.05	139	10184	5.49	ng	# 9
56) 2,4-Dinitrotoluene	9.84	165	17556	6.63	ng	# 24
57) Fluorene	10.39	166	32594	3.66	ng	96
70) Phenanthrene	11.36	178	373094	30.34	ng	98
71) Anthracene	11.40	178	81233	6.50	ng	97
72) Carbazole	11.57	167	34468	2.82	ng	99
74) Fluoranthene	12.55	202	381092	29.67	ng	98
77) Pyrene	12.77	202	351569	23.82	ng	98
80) Benzo(a)anthracene	13.97	228	166026	13.95	ng	99
82) Chrysene	14.00	228	166708	13.64	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	46555	4.48	ng	96
87) Benzo(b)fluoranthene	15.02	252	199589	20.06	ng	97
88) Benzo(k)fluoranthene	15.02	252	199589	21.25	ng	100
89) Benzo(a)pyrene	15.38	252	97802	10.99	ng	# 94
91) Benzo(a,h,i)perylene	17.35	276	42945	6.06	ng	98

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

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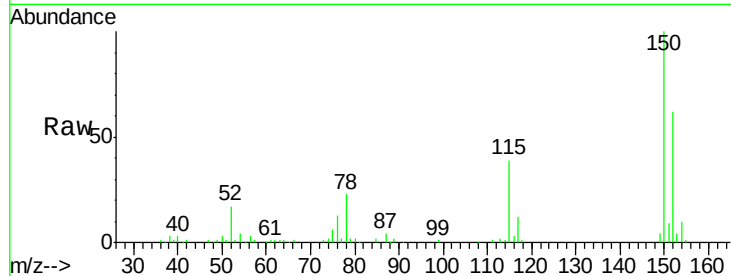
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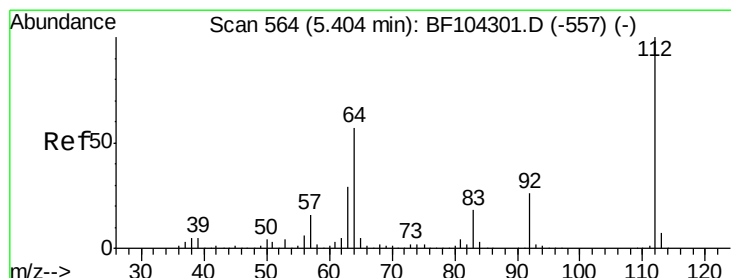
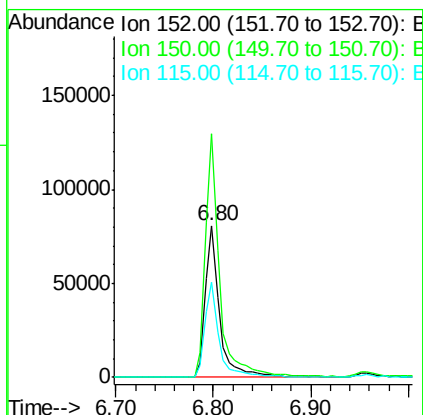
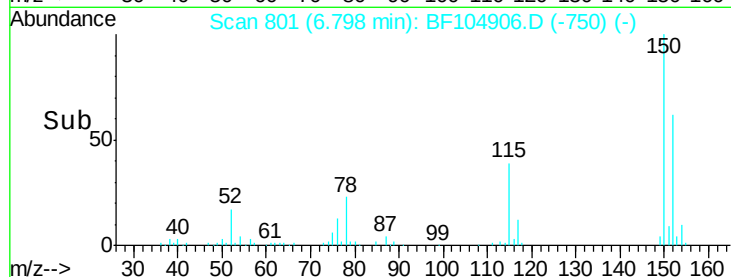


#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.80 min Scan# 801
 Delta R.T. 0.00 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tot Ion:152 Resp: 83494
 Ion Ratio Lower Upper
 152 100
 150 160.1 124.6 186.8
 115 62.3 50.1 75.1

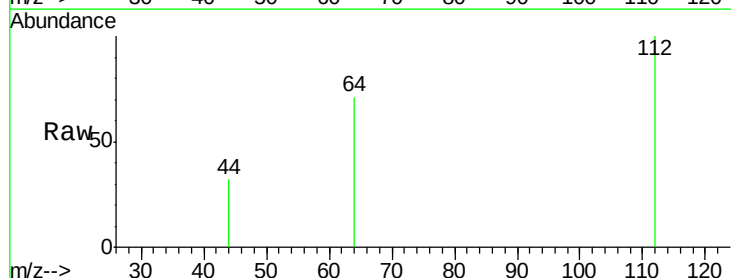


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

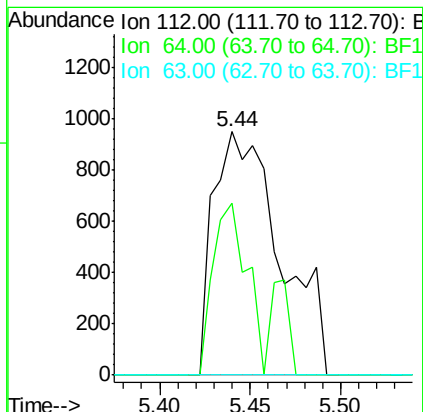
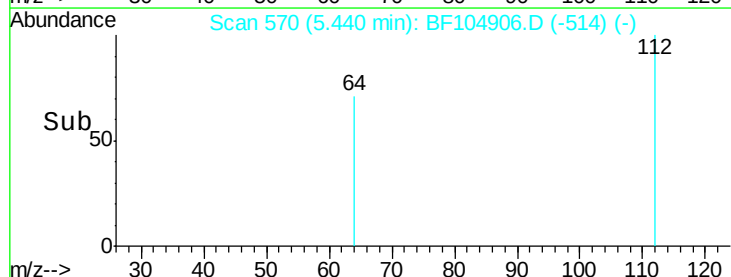


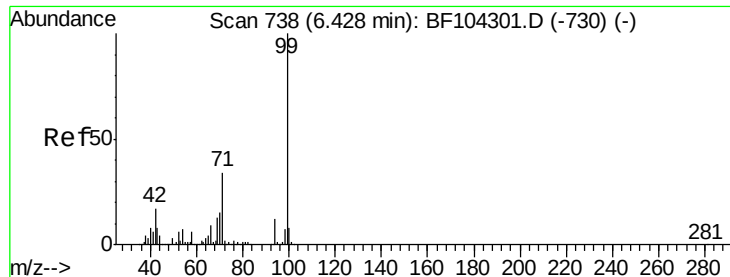
#5
 2-Fluorophenol
 Concen: 0.45 ng
 RT: 5.44 min Scan# 570
 Delta R.T. 0.03 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tgt Ion:112 Resp: 2450
 Ion Ratio Lower Upper
 112 100
 64 70.8 47.9 71.9
 63 0.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 0.41 ng

RT: 6.48 min Scan# 747

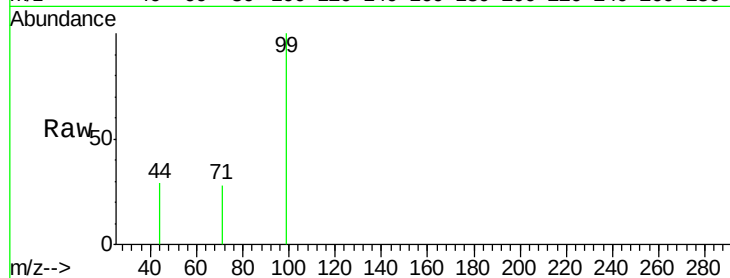
Delta R.T. 0.04 min

Lab File: BF104906.D

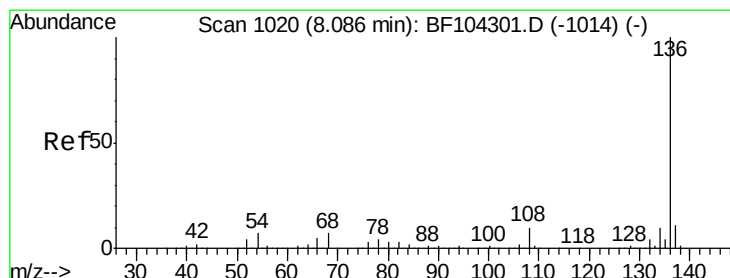
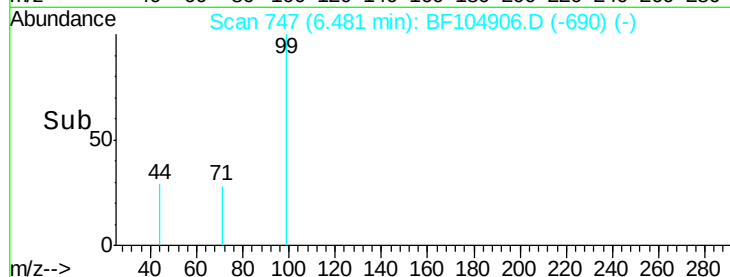
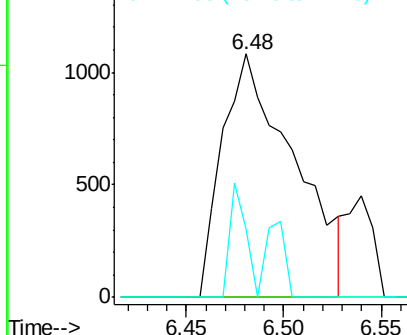
Acq: 28 Apr 2018 3:29

Tot Ion: 99 Resp: 2766

Ion	Ratio	Lower	Upper
99	100		
42	0.0	14.5	21.7#
71	27.8	25.4	38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.08 min Scan# 1019

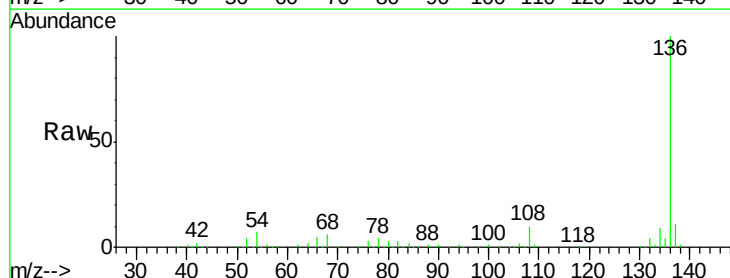
Delta R.T. -0.01 min

Lab File: BF104906.D

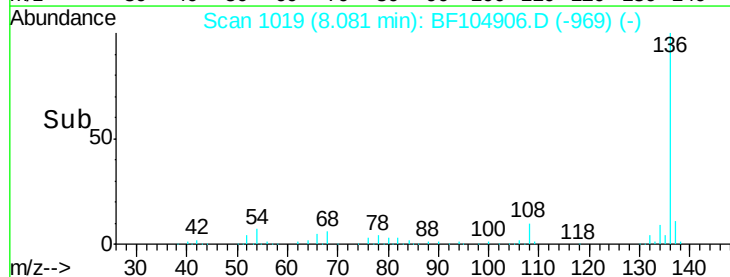
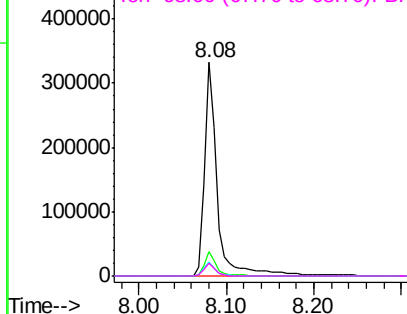
Acq: 28 Apr 2018 3:29

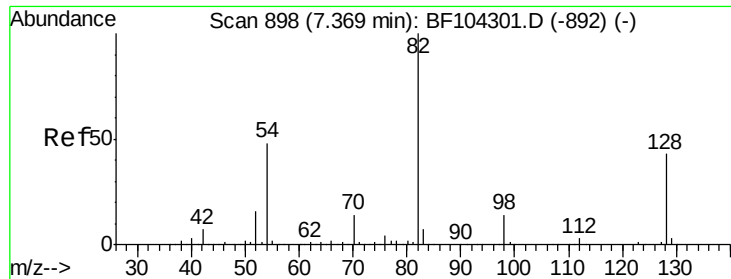
Tgt Ion: 136 Resp: 336757

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	6.7	6.6	9.8
68	5.7	5.0	7.4



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 0.40 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.02 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

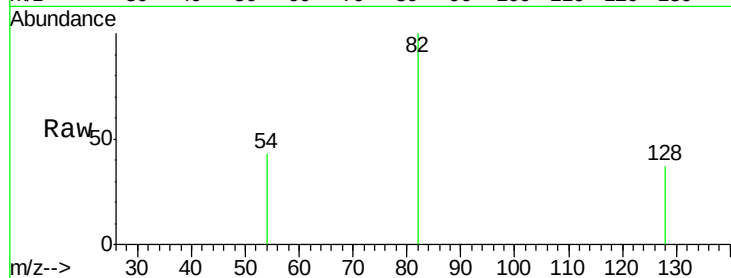
Tot Ion: 82 Resp: 2064

Ion Ratio Lower Upper

82 100

128 36.8 36.1 54.1

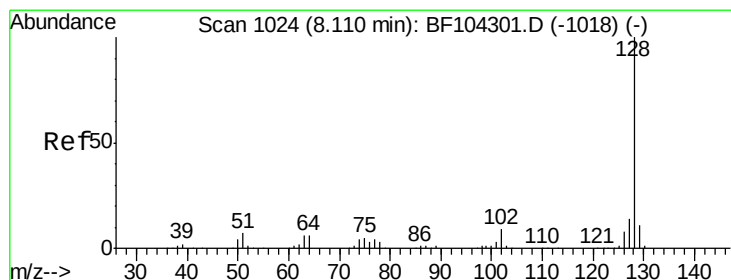
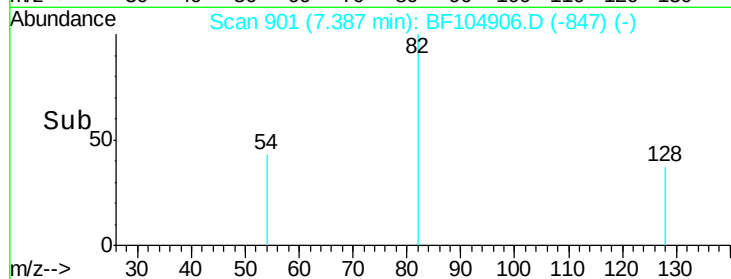
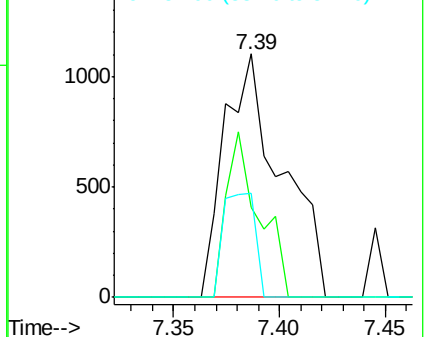
54 42.6 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 3.95 ng

RT: 8.10 min Scan# 1023

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

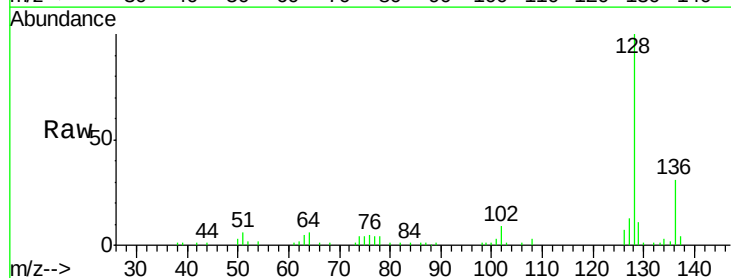
Tgt Ion: 128 Resp: 66166

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

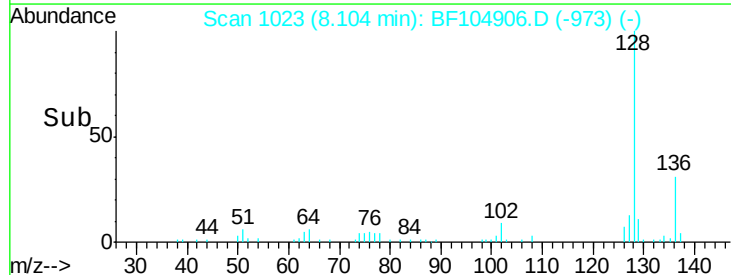
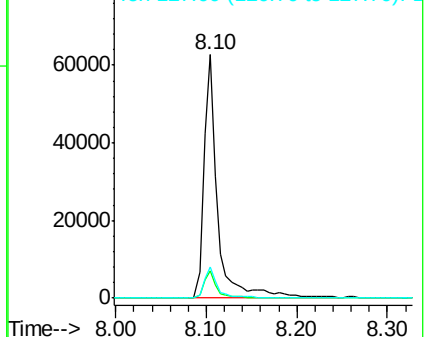
127 12.8 10.9 16.3

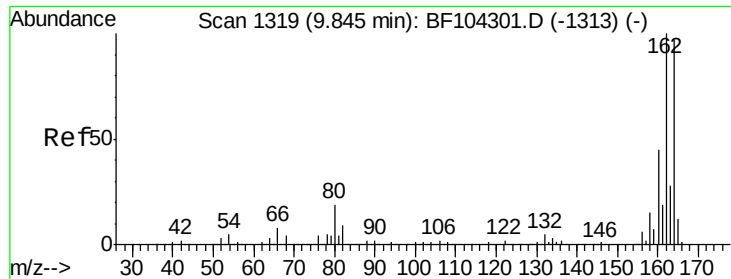


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

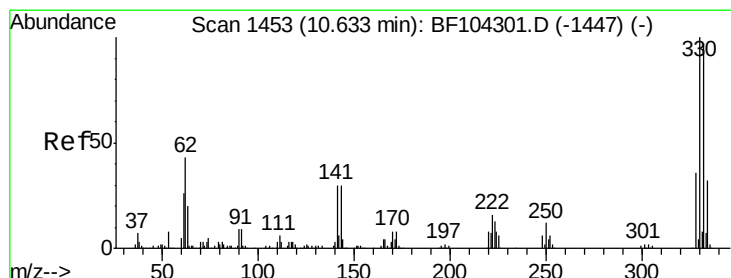
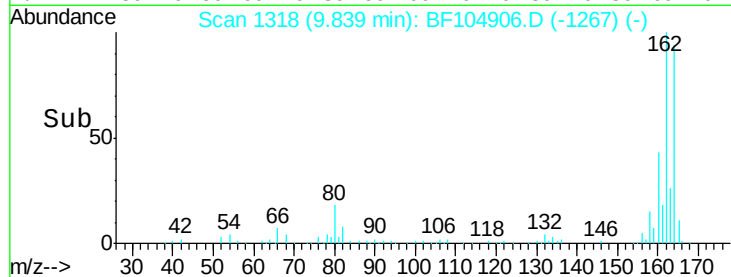
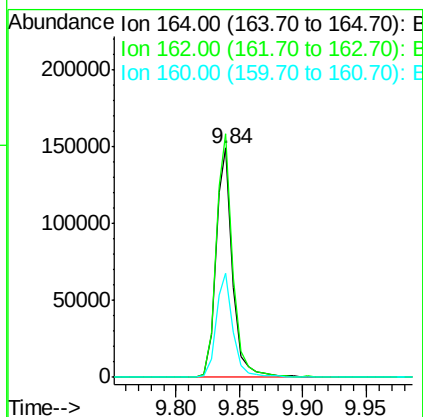
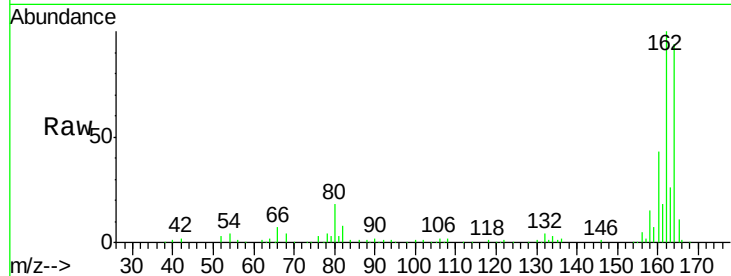
Ion 127.00 (126.70 to 127.70): E





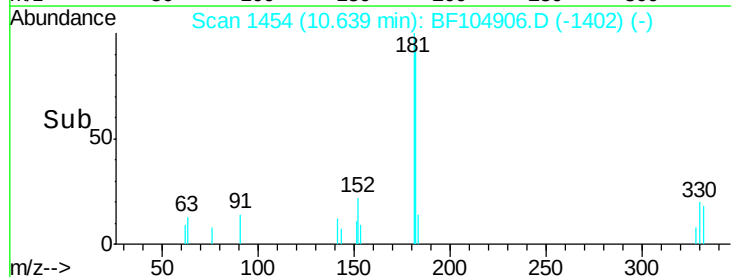
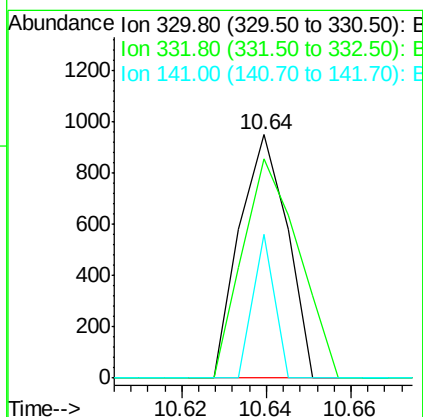
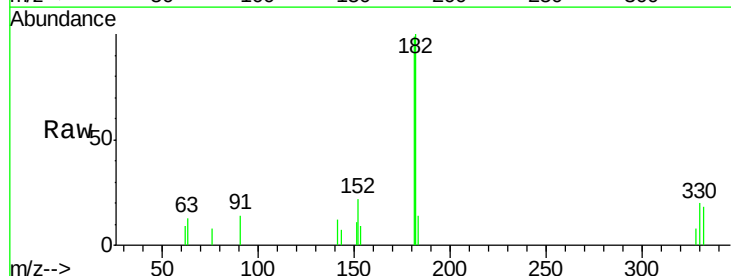
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

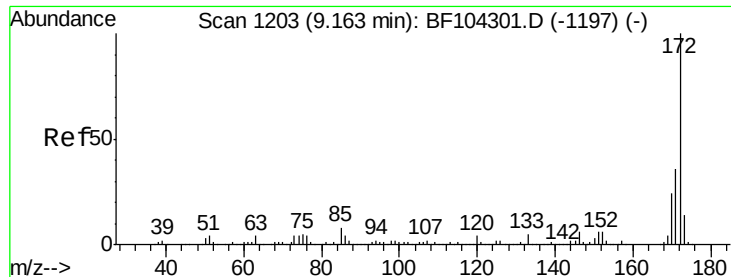
Tot Ion	Ratio	Lower	Upper
164	100		
162	106.4	86.1	129.1
160	45.6	38.3	57.5



#41
 2,4,6-Tribromophenol
 Concen: 0.52 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. 0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

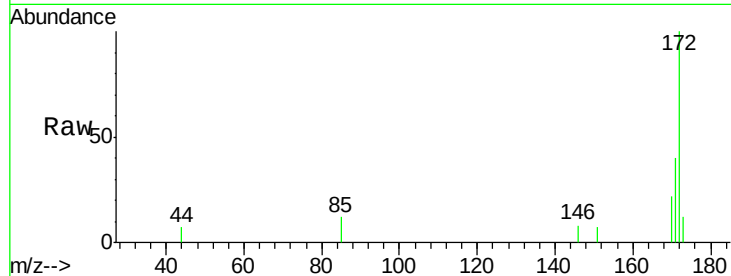
Tgt Ion	Ratio	Lower	Upper
330	100		
332	106.2	77.0	115.6
141	26.6	29.9	44.9#



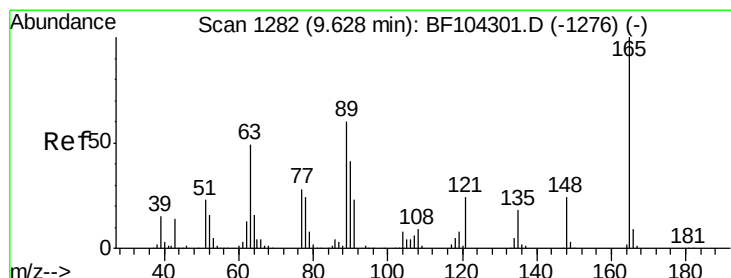
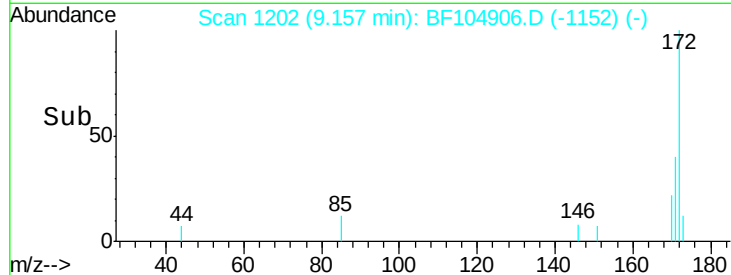
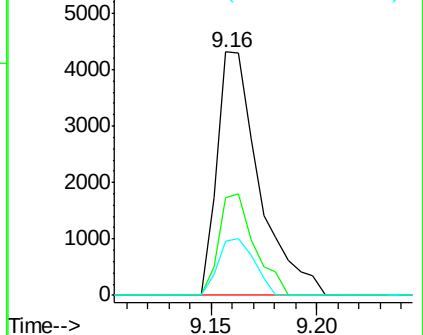


#44
 2-Fluorobiphenyl
 Concen: 0.68 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tot Ion:172	Resp:	5970
Ion	Ratio	Lower Upper
172	100	
171	40.3	29.7 44.5
170	22.2	19.6 29.4

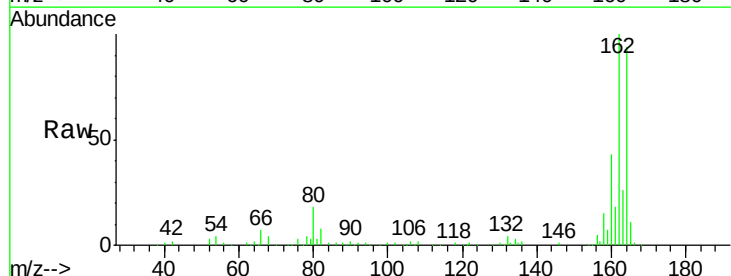


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

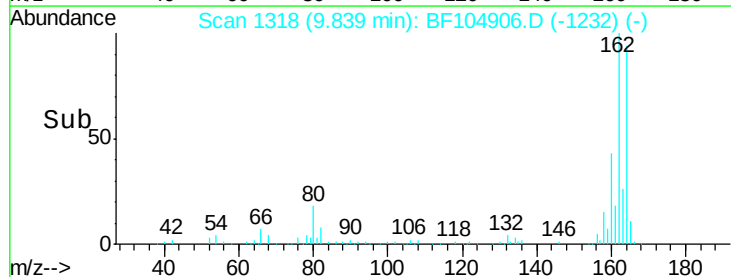
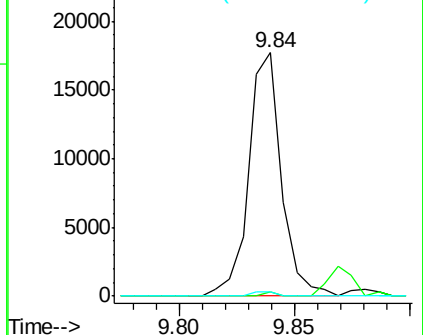


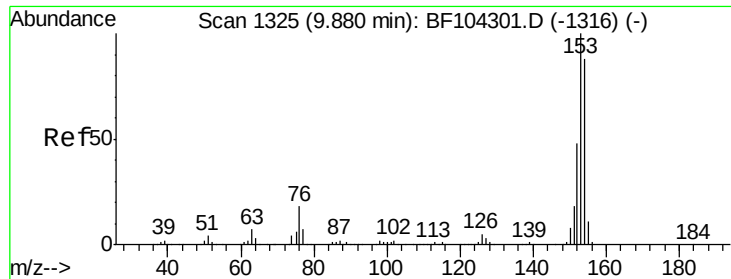
#50
 2,6-Dinitrotoluene
 Concen: 8.70 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. 0.21 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tgt Ion:165	Resp:	17556
Ion	Ratio	Lower Upper
165	100	
63	2.0	44.7 67.1#
89	1.8	44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 2.49 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

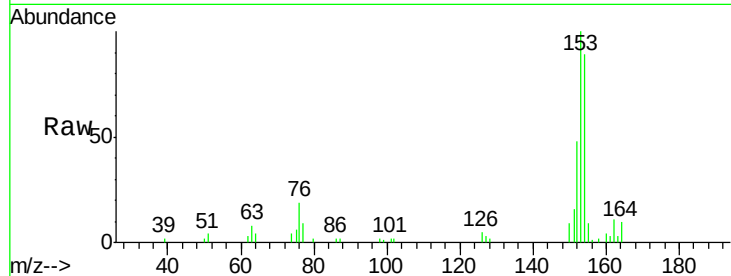
Tot Ion:154 Resp: 21856

Ion Ratio Lower Upper

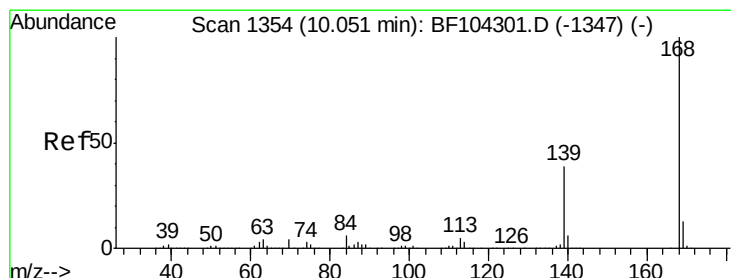
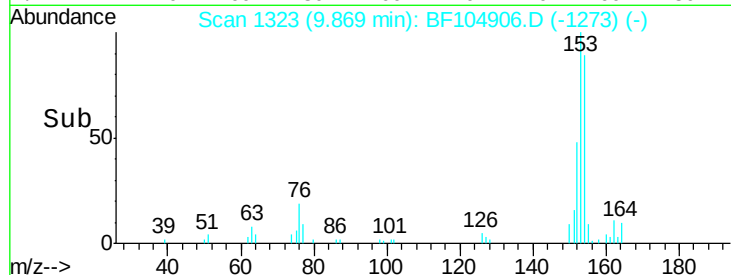
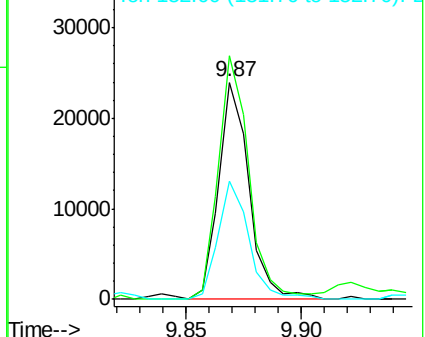
154 100

153 112.3 91.2 136.8

152 54.2 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.24 ng

RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

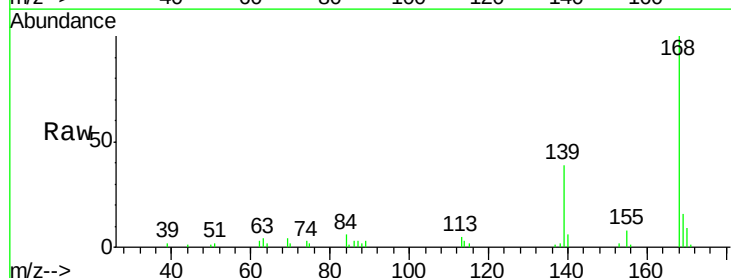
Tgt Ion:168 Resp: 27447

Ion Ratio Lower Upper

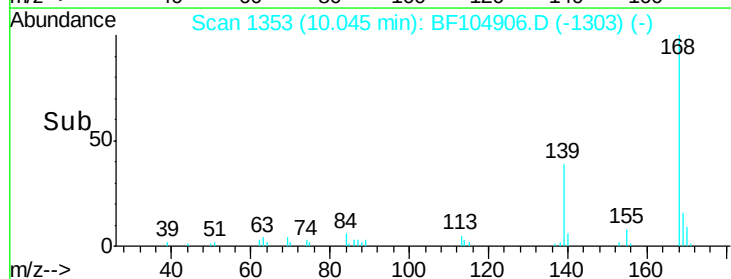
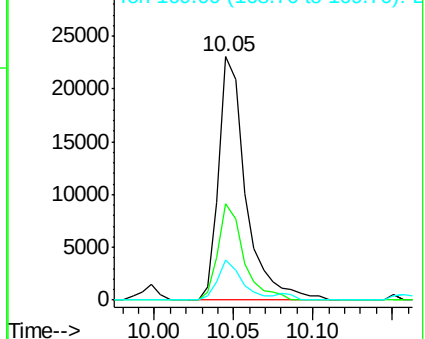
168 100

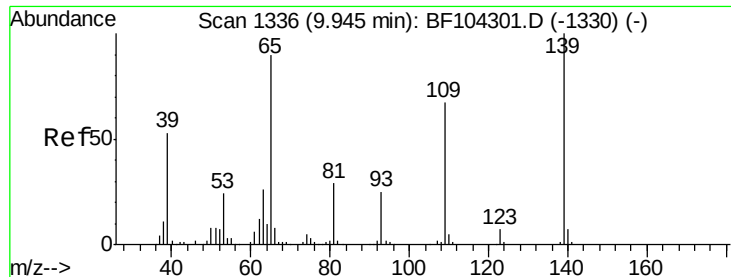
139 39.4 30.1 45.1

169 16.5 10.9 16.3#



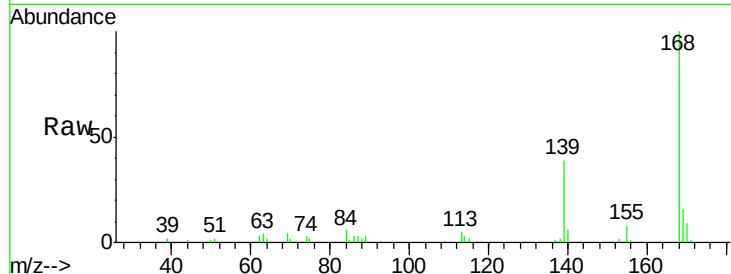
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



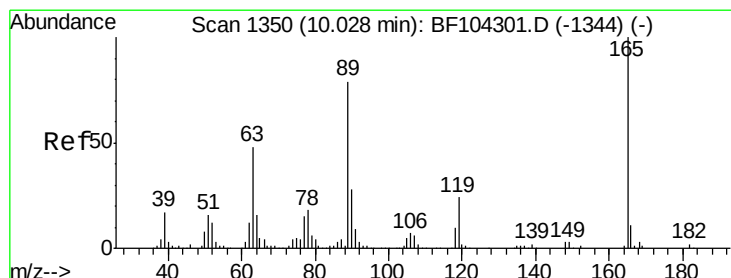
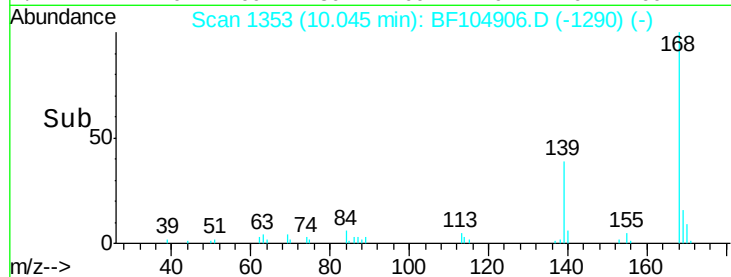
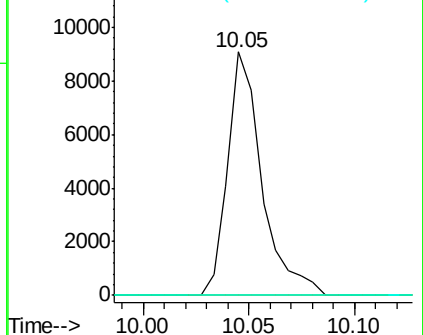


#55
4-Nitrophenol
Concen: 5.49 ng
RT: 10.05 min Scan# 1353
Delta R.T. 0.07 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	48.4	88.4#
65	0.0	72.6	112.6#



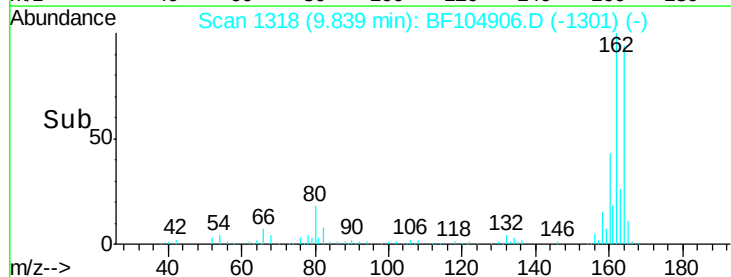
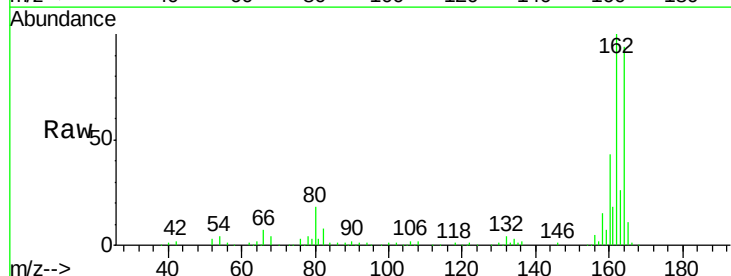
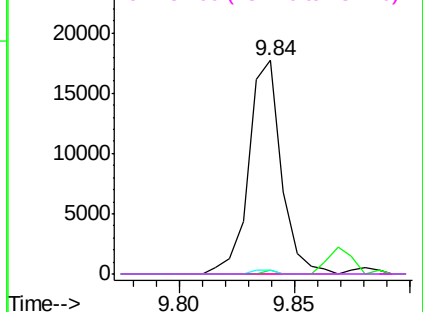
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

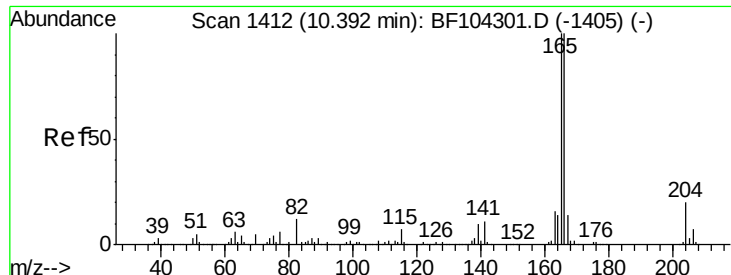


#56
2,4-Dinitrotoluene
Concen: 6.63 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.20 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.0	36.4	54.6#
89	1.8	57.8	86.6#
182	0.0	1.6	2.4#

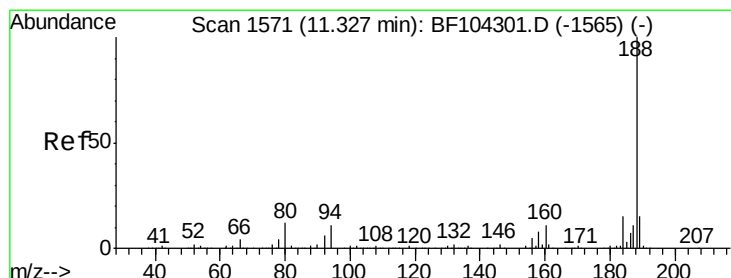
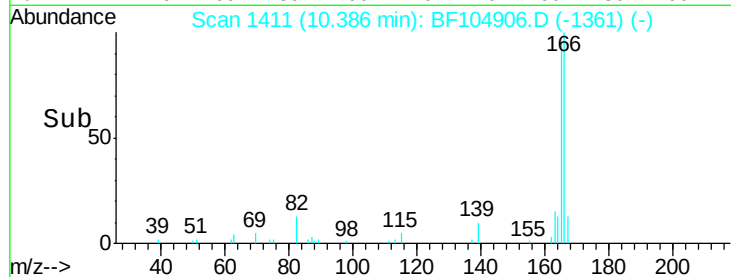
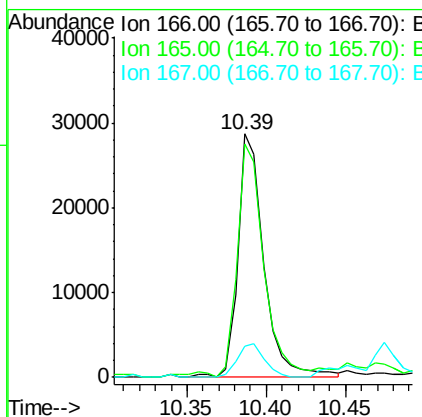
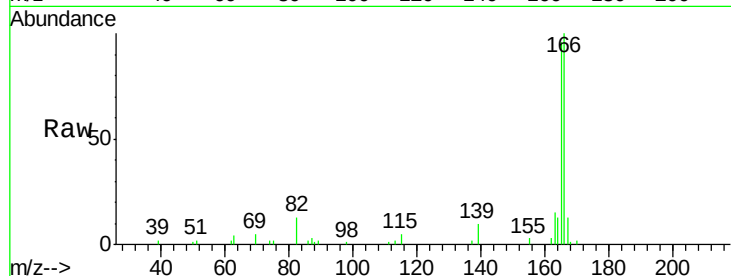
Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E





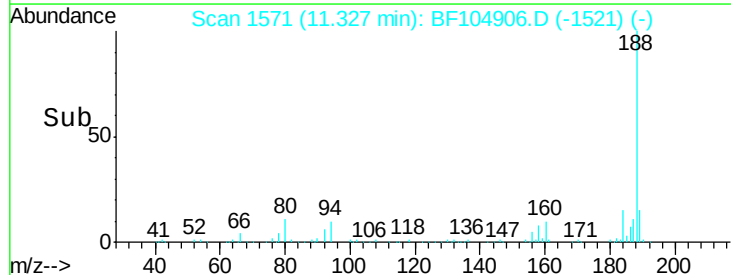
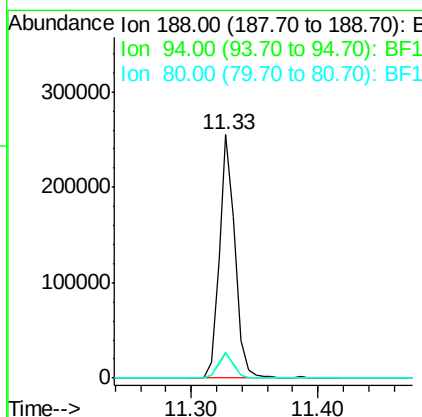
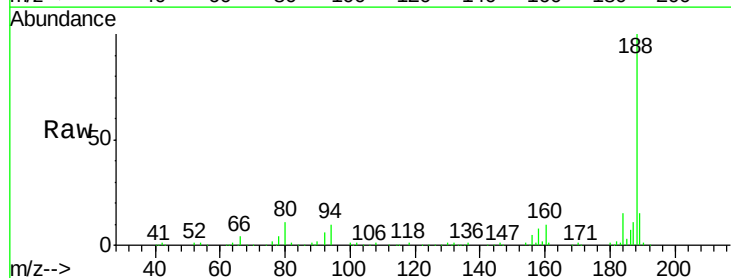
#57
 Fluorene
 Concen: 3.66 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

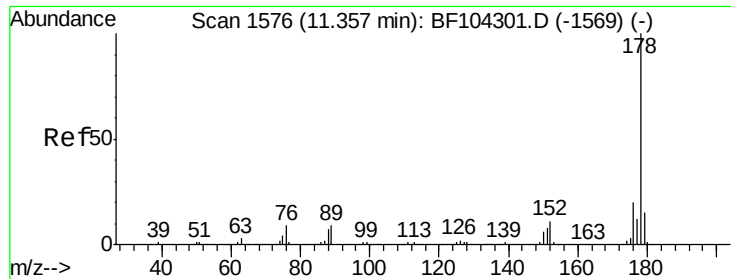
Tot	Ion:166	Resp:	32594
Ion	Ratio	Lower	Upper
166	100		
165	95.9	79.8	119.8
167	13.0	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

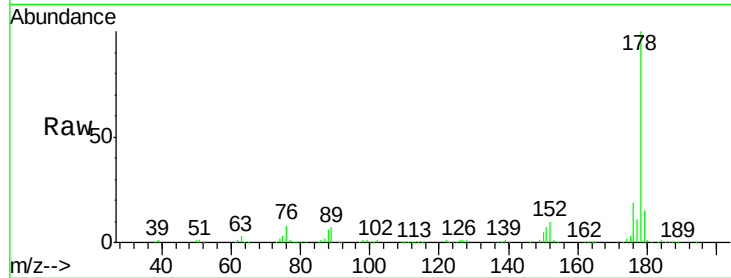
Tgt	Ion:188	Resp:	220786
Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.5	12.7
80	10.6	9.2	13.8



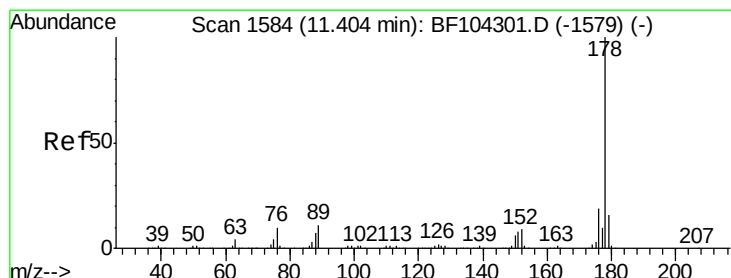
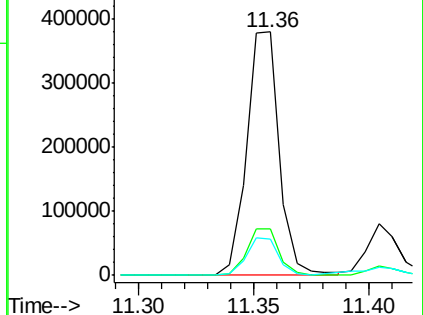
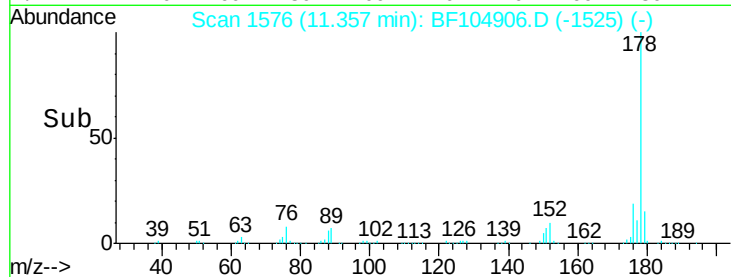


#70
 Phenanthrene
 Concen: 30.34 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.8
179	14.8	13.0	19.6

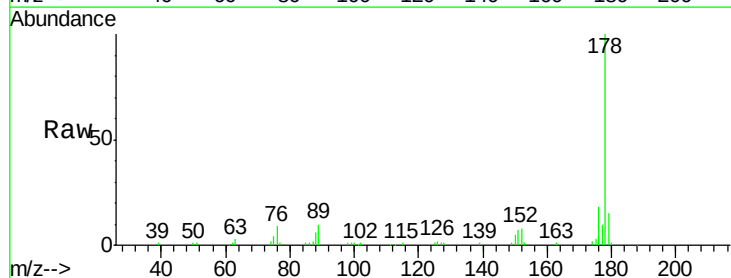


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

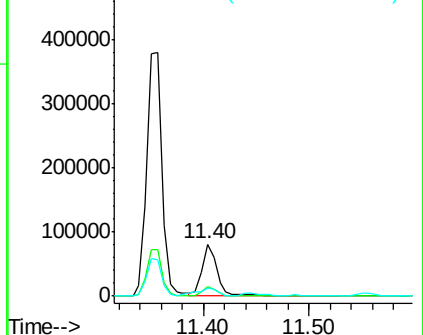
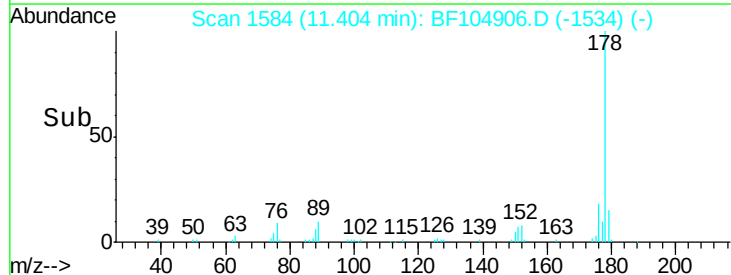


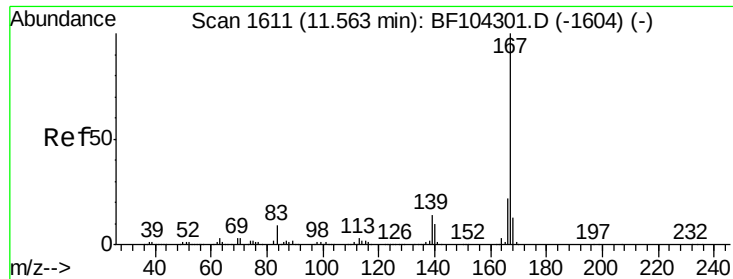
#71
 Anthracene
 Concen: 6.50 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.2
179	15.1	12.6	19.0



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.82 ng

RT: 11.57 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

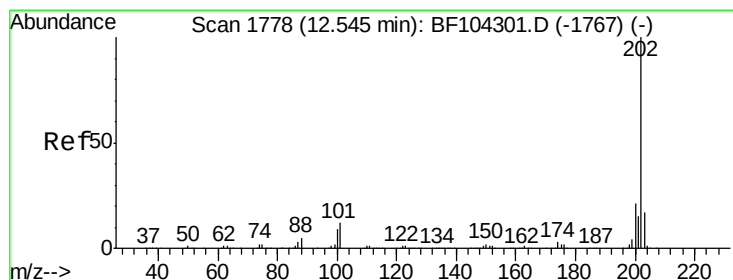
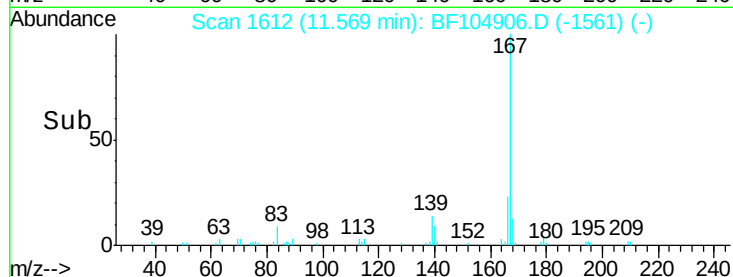
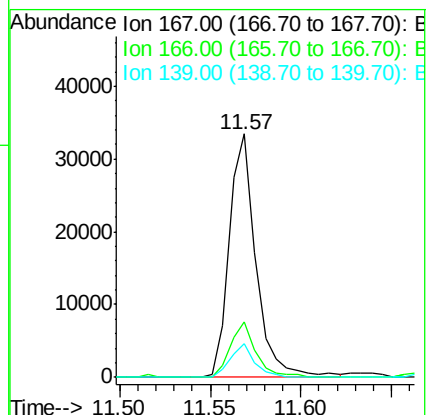
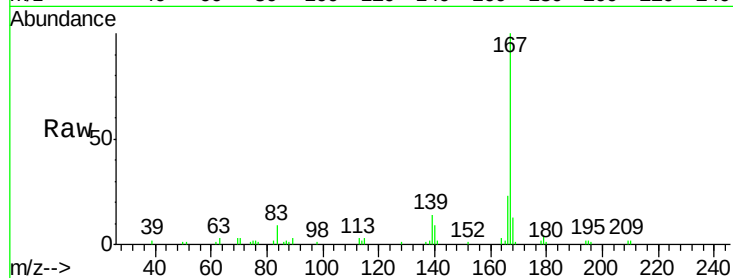
Tot Ion:167 Resp: 34468

Ion Ratio Lower Upper

167 100

166 22.6 17.6 26.4

139 13.9 10.9 16.3



#74

Fluoranthene

Concen: 29.67 ng

RT: 12.55 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

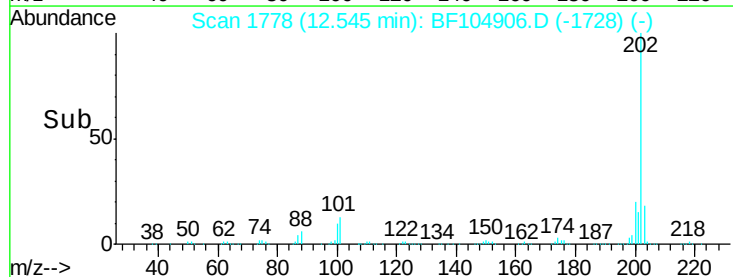
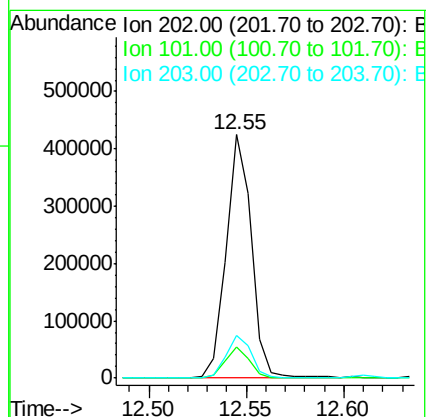
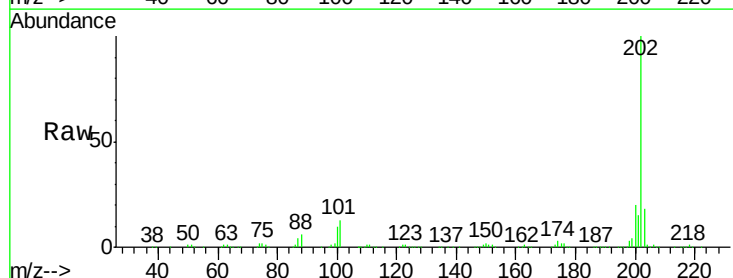
Tgt Ion:202 Resp: 381092

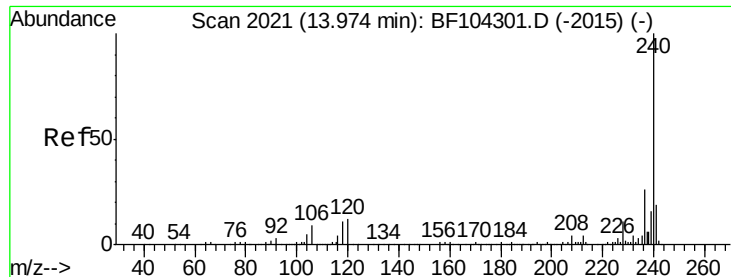
Ion Ratio Lower Upper

202 100

101 13.0 0.0 34.1

203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

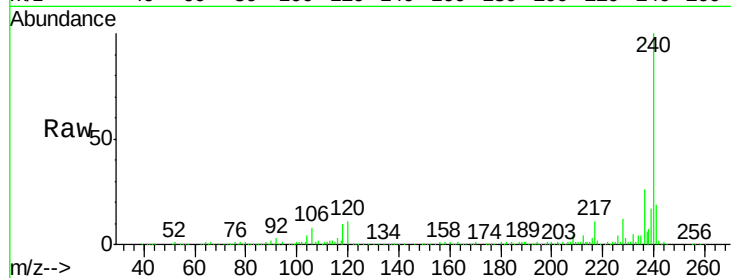
Tot Ion:240 Resp: 199153

Ion Ratio Lower Upper

240 100

120 10.9 9.5 14.3

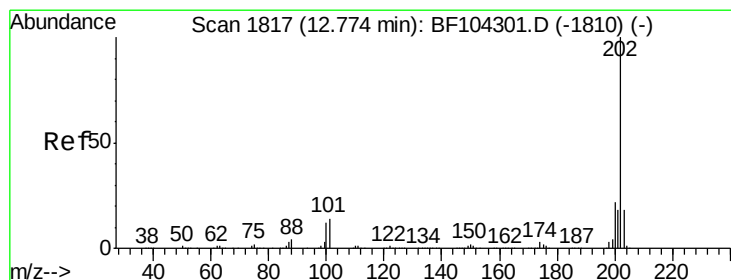
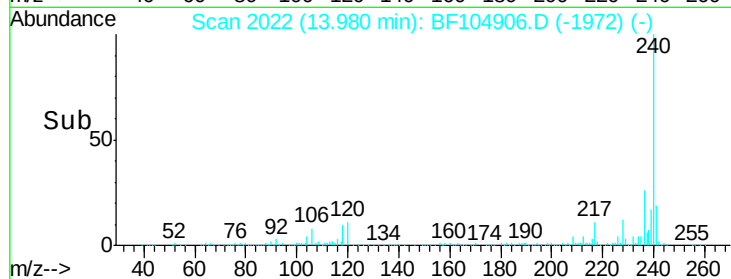
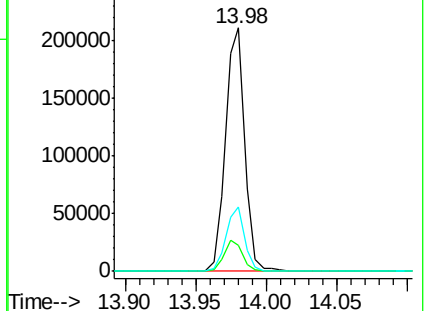
236 26.3 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 23.82 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

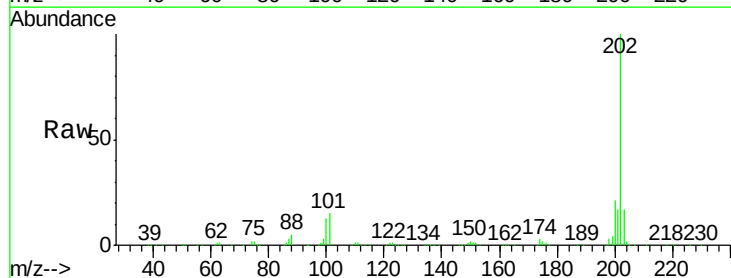
Tgt Ion:202 Resp: 351569

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

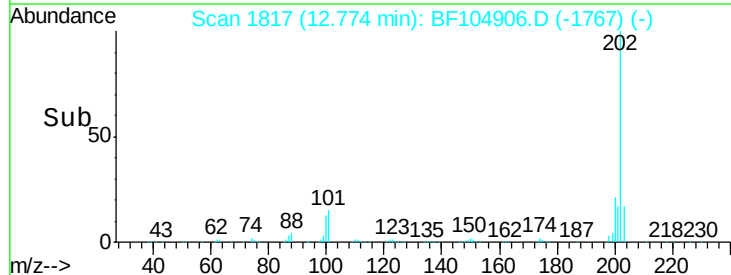
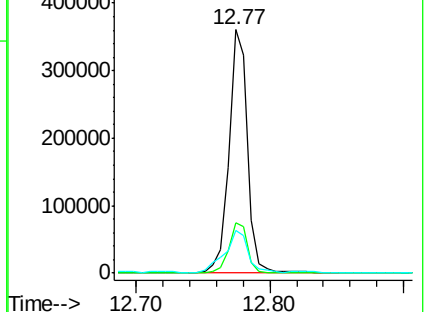
203 17.5 14.3 21.5

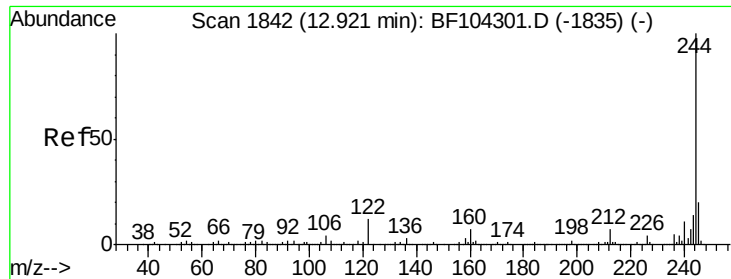


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

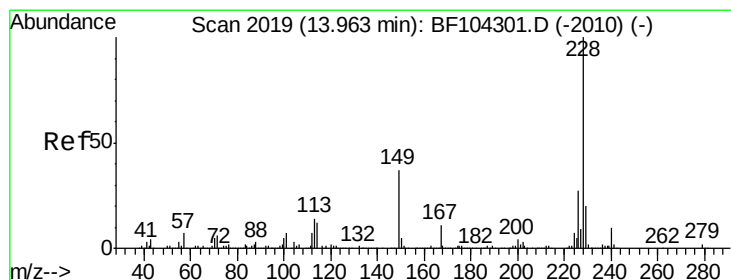
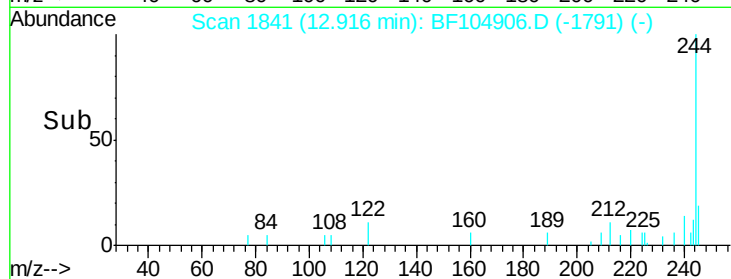
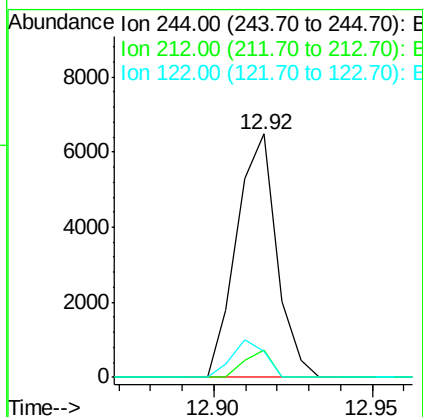
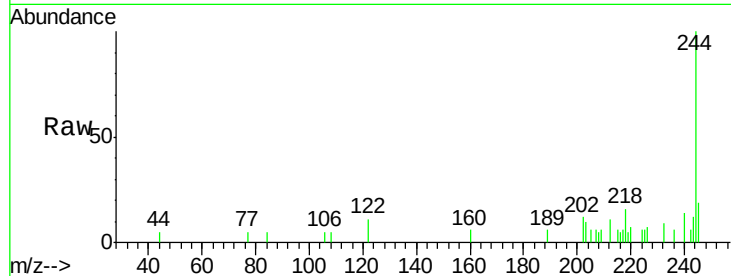
Ion 203.00 (202.70 to 203.70): E





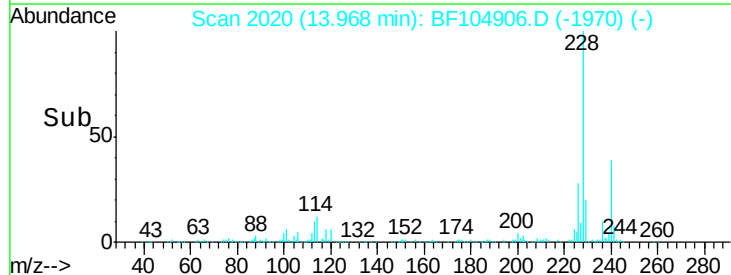
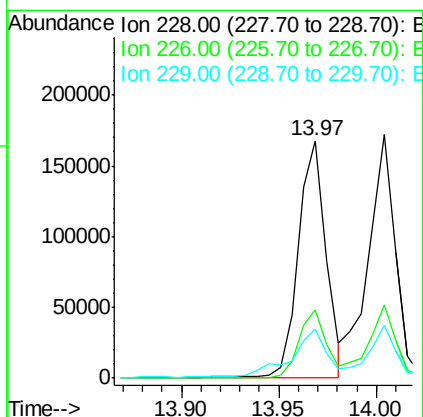
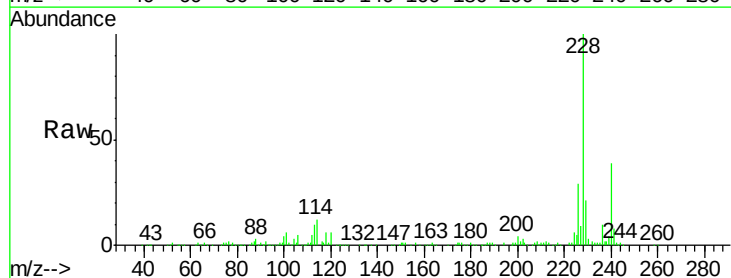
#78
 Terphenyl-d14
 Concen: 0.65 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

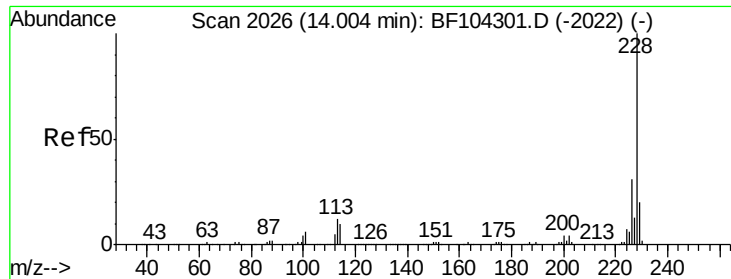
Tot Ion:244 Resp: 5664
 Ion Ratio Lower Upper
 244 100
 212 11.2 5.4 8.0#
 122 10.6 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 13.95 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tgt Ion:228 Resp: 166026
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.6 33.8
 229 20.7 15.8 23.6





#82

Chrysene

Concen: 13.64 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

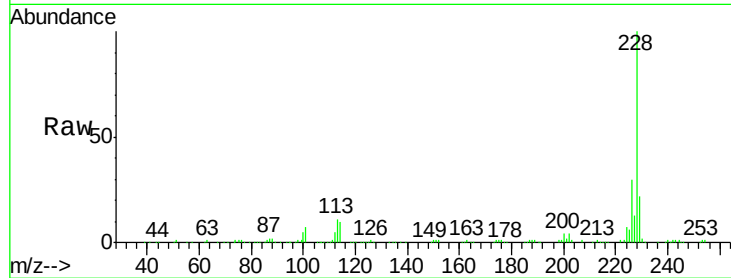
Tot Ion:228 Resp: 166708

Ion Ratio Lower Upper

228 100

226 30.3 25.0 37.6

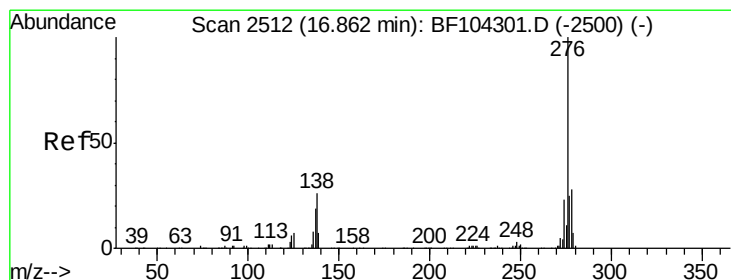
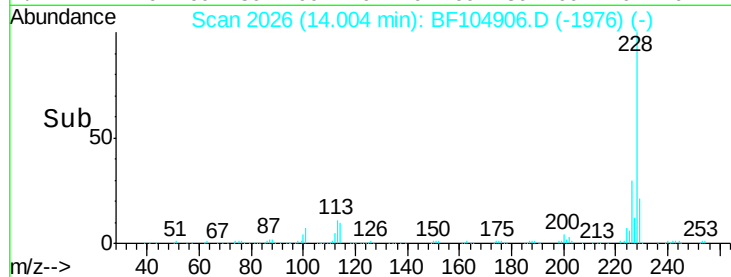
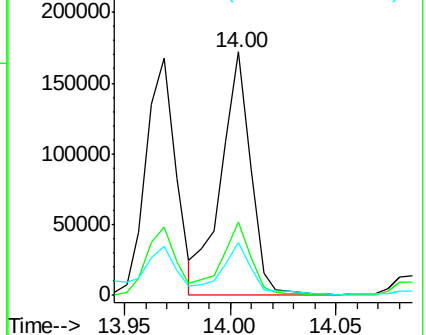
229 21.8 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.48 ng

RT: 16.90 min Scan# 2519

Delta R.T. -0.02 min

Lab File: BF104906.D

Acq: 28 Apr 2018 3:29

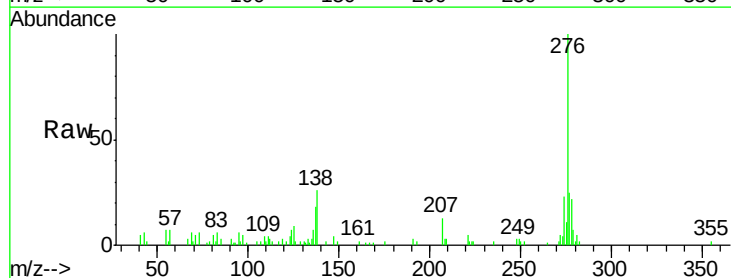
Tgt Ion:276 Resp: 46555

Ion Ratio Lower Upper

276 100

138 28.7 25.0 37.6

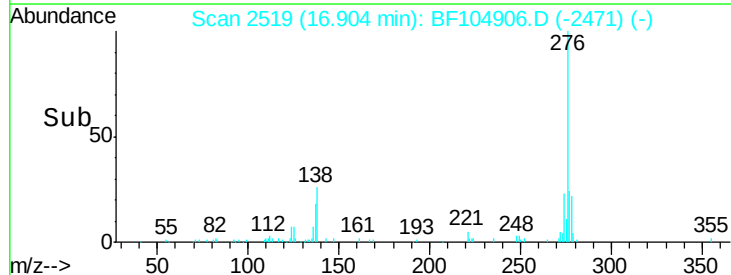
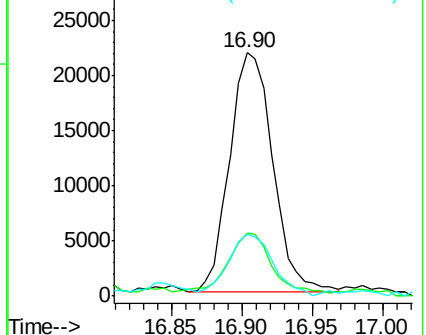
277 26.9 20.1 30.1

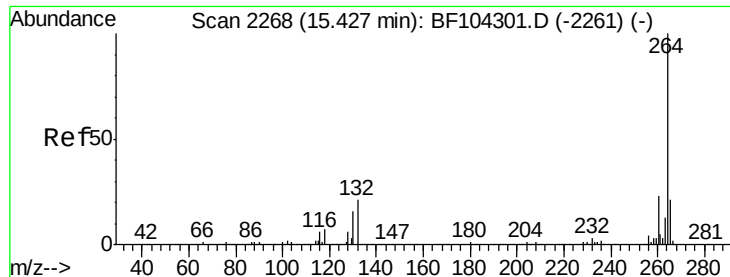


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

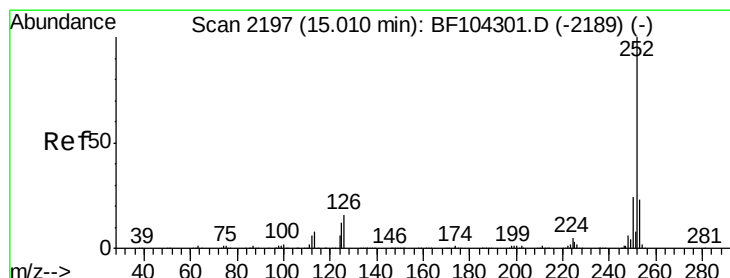
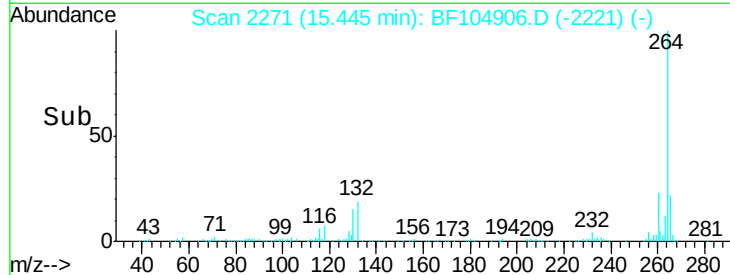
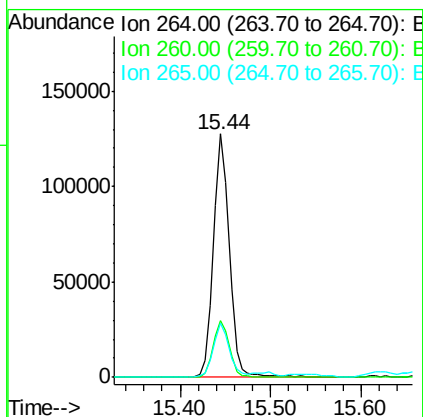
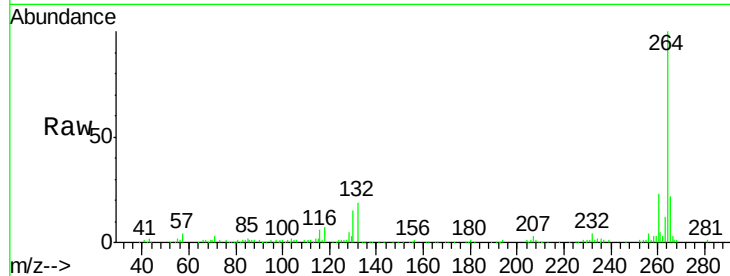




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion:264 Resp: 157511

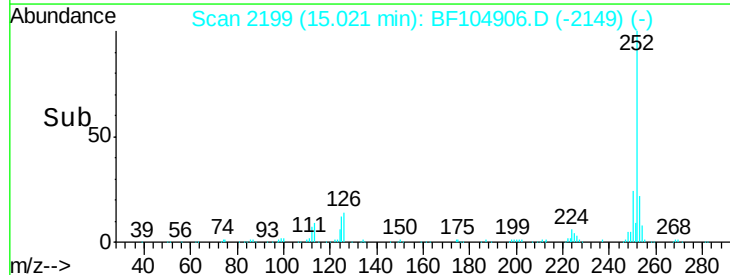
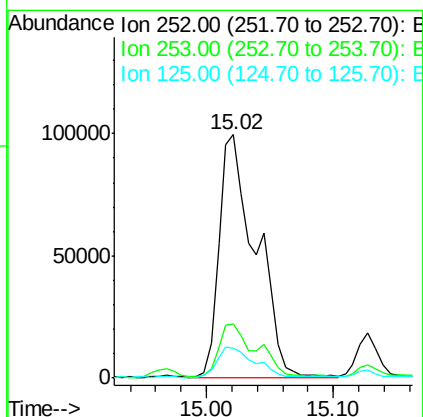
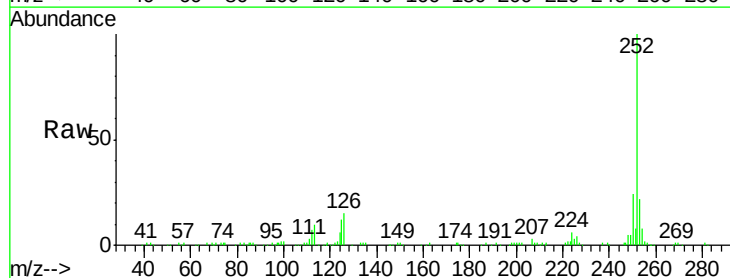
Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.2	17.5	26.3

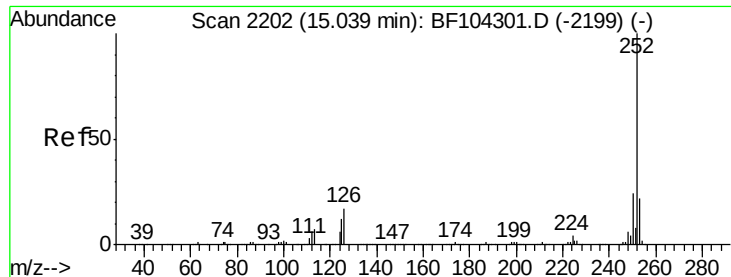


#87
Benzo(b)fluoranthene
Concen: 20.06 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion:252 Resp: 199589

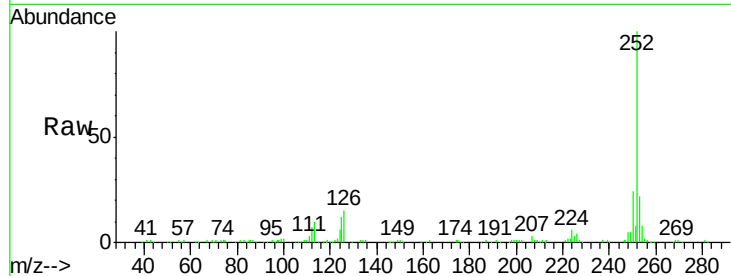
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	12.5	9.0	13.6



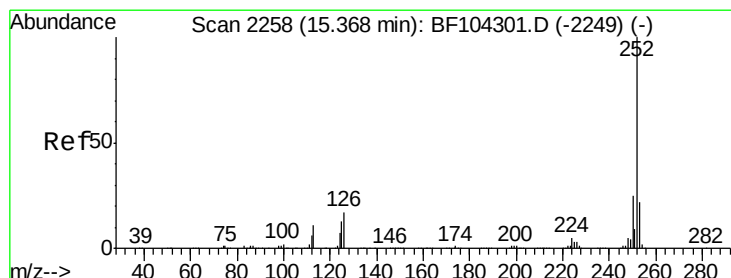
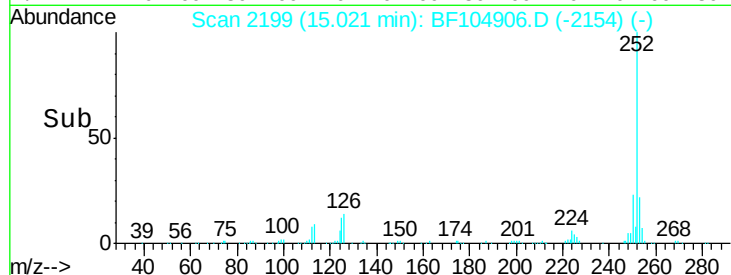
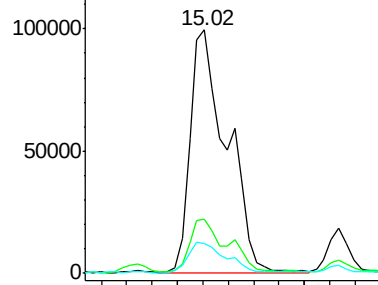


#88
Benzo(k)fluoranthene
Concen: 21.25 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.04 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	12.5	10.2	15.2

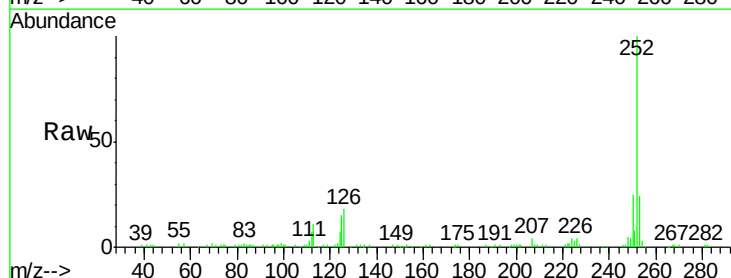


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

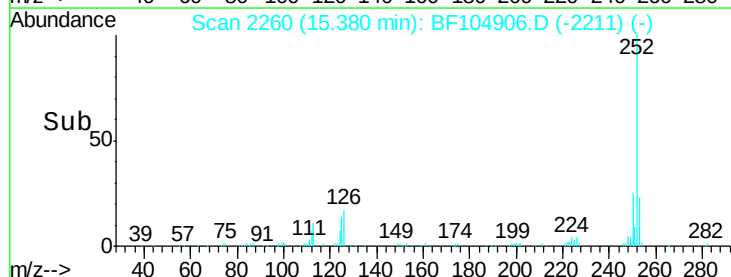
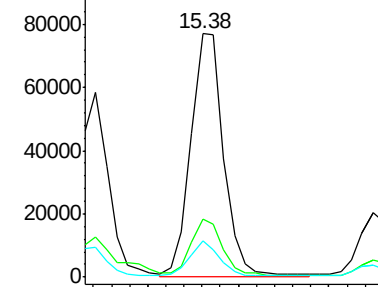


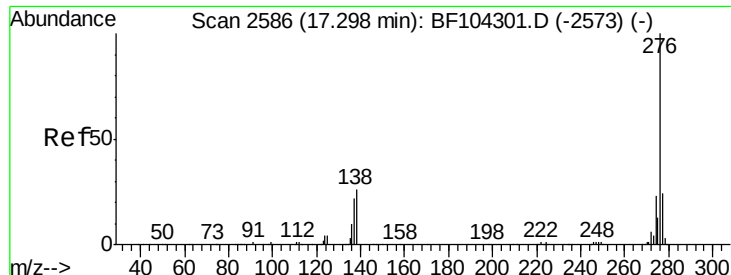
#89
Benzo(a)pyrene
Concen: 10.99 ng
RT: 15.38 min Scan# 2260
Delta R.T. -0.01 min
Lab File: BF104906.D
Acq: 28 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	14.8	9.8	14.6



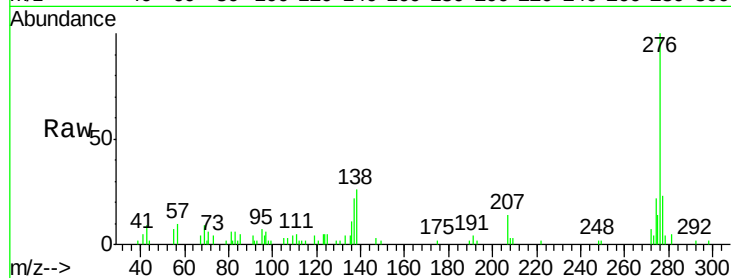
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 6.06 ng
 RT: 17.35 min Scan# 2595
 Delta R.T. -0.01 min
 Lab File: BF104906.D
 Acq: 28 Apr 2018 3:29

Tot Ion:276	Resp: 42945
Ion Ratio	Lower Upper
276 100	
277 23.2	17.9 26.9
138 26.1	21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

