

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\
 Data File : BF097310.D
 Acq On : 3 Aug 2017 10:08
 Operator : SJ/JU
 Sample : I4471-18
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 03 12:00:57 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	104472	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	466888	20.00	ng	-0.05
38) Acenaphthene-d10	9.47	164	200085	20.00	ng	-0.06
63) Phenanthrene-d10	10.95	188	335457	20.00	ng	-0.05
75) Chrysene-d12	13.57	240	196291	20.00	ng	-0.06
86) Perylene-d12	14.92	264	172446	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	765796	110.50	ng	-0.05
7) Phenol-d6	6.12	99	930708	117.64	ng	-0.05
23) Nitrobenzene-d5	7.02	82	524354	65.88	ng	-0.05
41) 2,4,6-Tribromophenol	10.27	330	161503	102.16	ng	-0.05
44) 2-Fluorobiphenyl	8.81	172	683587	57.98	ng	-0.06
78) Terphenyl-d14	12.53	244	440879	45.79	ng	-0.05

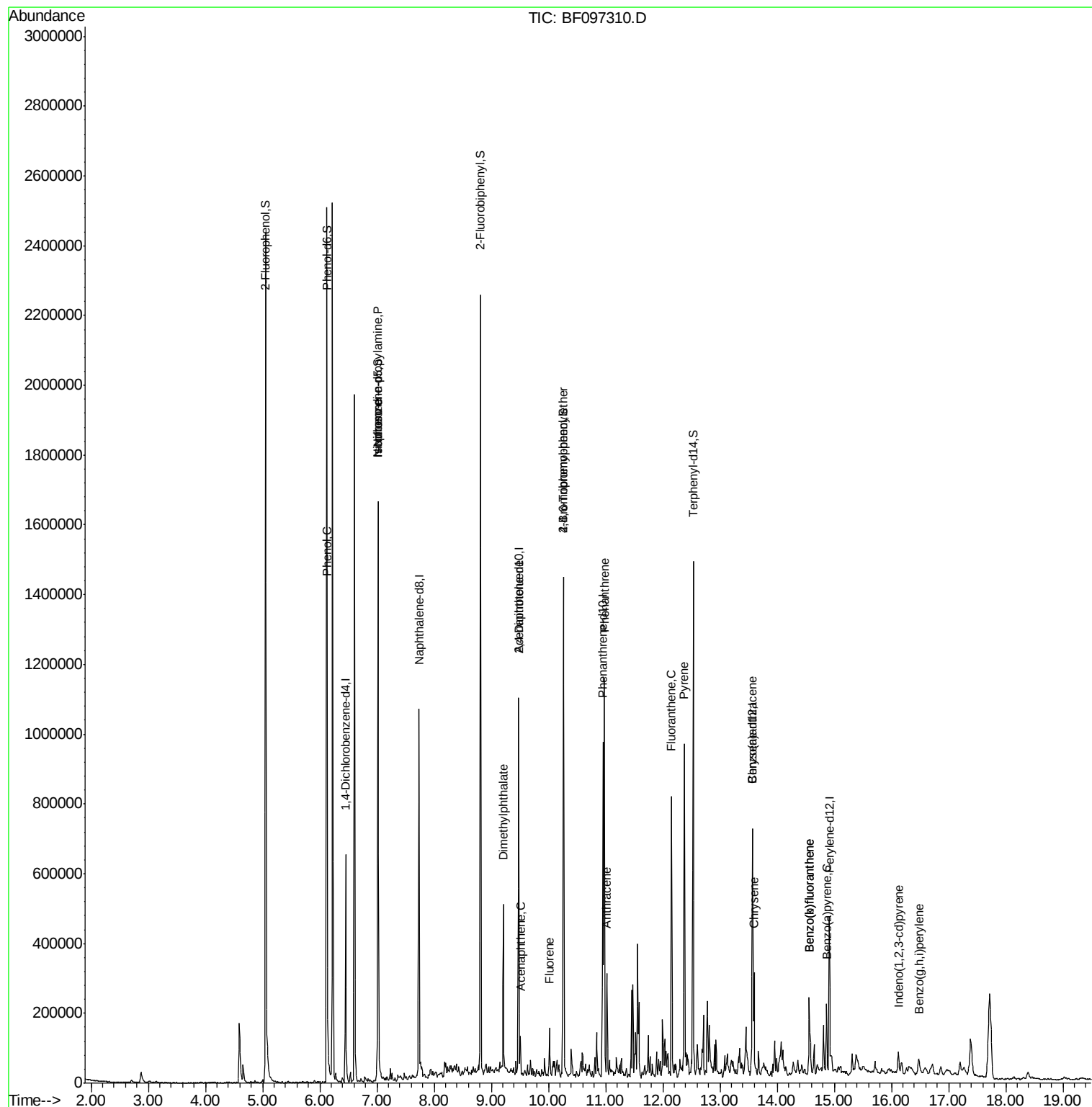
Target Compounds				Qvalue		
10) Phenol	6.13	94	32545	3.468	ng	95
19) n-Nitroso-di-n-propylamine	7.02	70	72705	13.961	ng	# 88
25) Isophorone	7.02	82	509687	32.701	ng	# 67
49) Dimethylphthalate	9.21	163	177977	11.714	ng	100
51) Acenaphthene	9.51	154	25122	2.209	ng	97
56) 2,4-Dinitrotoluene	9.47	165	26067	7.036	ng	# 33
57) Fluorene	10.02	166	34077	2.994	ng	99
66) 4-Bromophenyl-phenylether	10.26	248	10545	3.150	ng	# 1
70) Phenanthrene	10.97	178	416515	23.173	ng	99
71) Anthracene	11.02	178	109793	5.964	ng	98
74) Fluoranthene	12.15	202	313145	17.784	ng	99
77) Pyrene	12.38	202	367516	22.870	ng	99
80) Benzo(a)anthracene	13.56	228	115192	9.070	ng	97
82) Chrysene	13.60	228	116708	9.410	ng	97
85) Indeno(1,2,3-cd)pyrene	16.12	276	31062	2.921	ng	95
87) Benzo(b)fluoranthene	14.56	252	127061	12.257	ng	# 95
88) Benzo(k)fluoranthene	14.56	252	127061	12.863	ng	97
89) Benzo(a)pyrene	14.86	252	75862	7.996	ng	# 95
91) Benzo(a,h,i)perylene	16.48	276	29166	3.575	ng	94

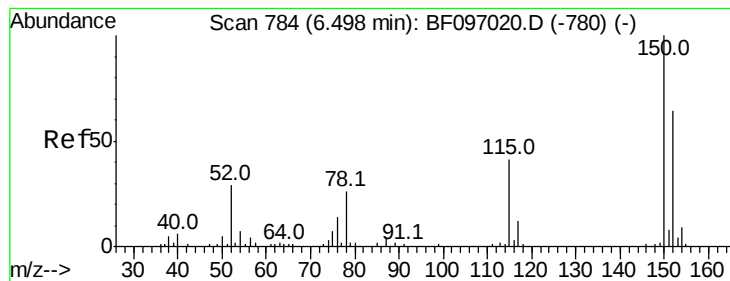
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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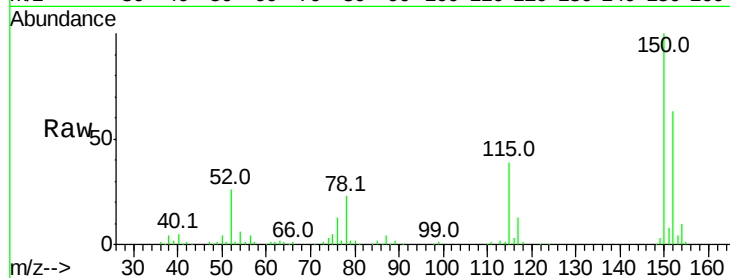


#1

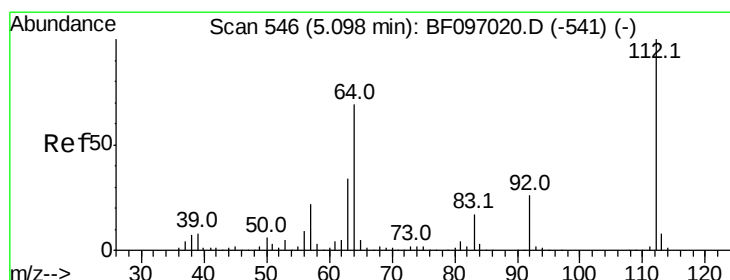
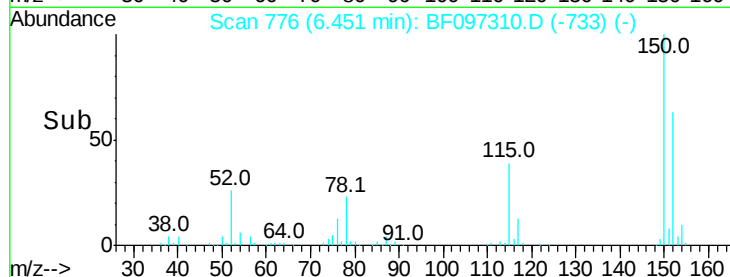
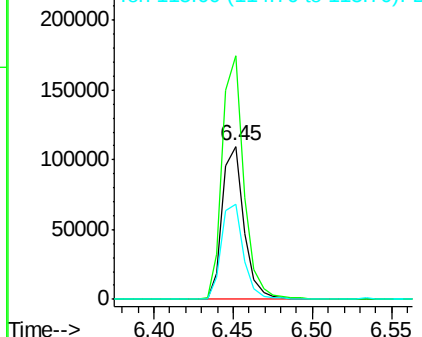
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.45 min Scan# 776
Delta R.T. -0.05 min
Lab File: BF097310.D
Acq: 3 Aug 2017 10:08

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 104472
Ion Ratio Lower Upper
152 100
150 159.1 126.2 189.2
115 61.8 52.2 78.2



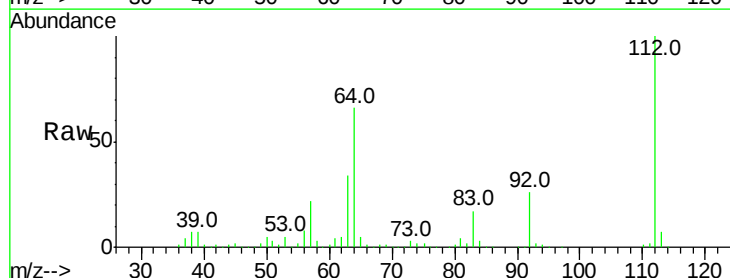
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



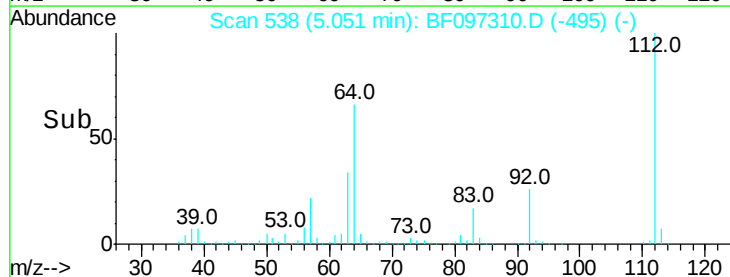
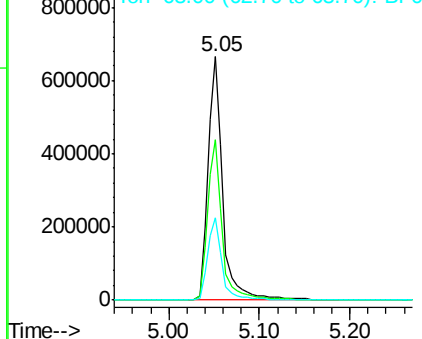
#5

2-Fluorophenol
Concen: 110.501 ng
RT: 5.05 min Scan# 538
Delta R.T. -0.05 min
Lab File: BF097310.D
Acq: 3 Aug 2017 10:08

Tgt Ion:112 Resp: 765796
Ion Ratio Lower Upper
112 100
64 66.0 46.0 69.0
63 33.8 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 117.638 ng

RT: 6.12 min Scan# 720

Delta R.T. -0.05 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :

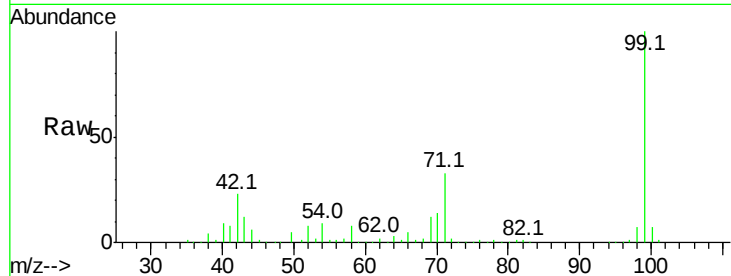
Tot Ion: 99 Resp: 930708

Ion Ratio Lower Upper

99 100

42 23.3 13.5 20.3#

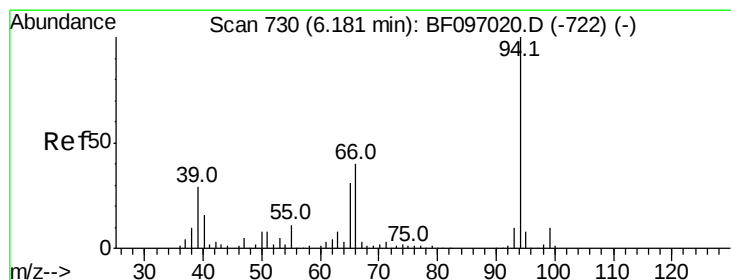
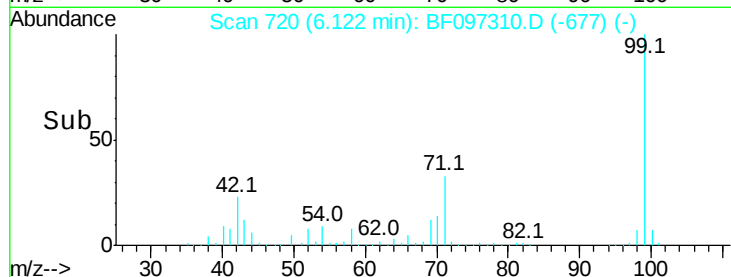
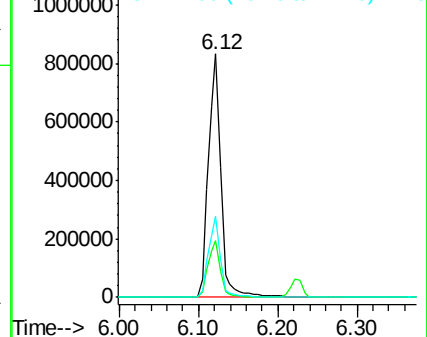
71 33.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 3.468 ng

RT: 6.13 min Scan# 722

Delta R.T. -0.05 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

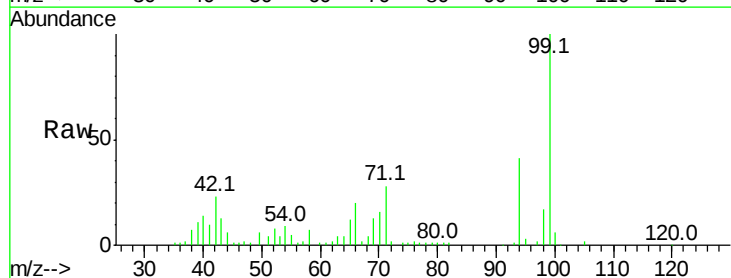
Tgt Ion: 94 Resp: 32545

Ion Ratio Lower Upper

94 100

65 28.6 9.9 49.9

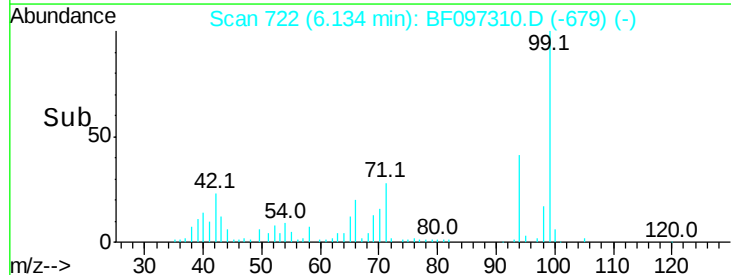
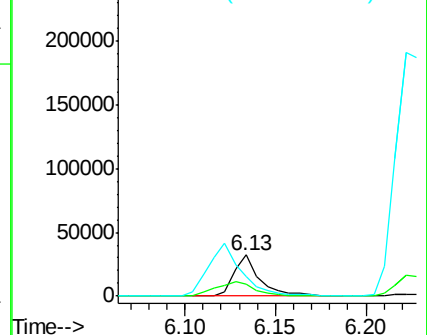
66 47.1 23.1 63.1

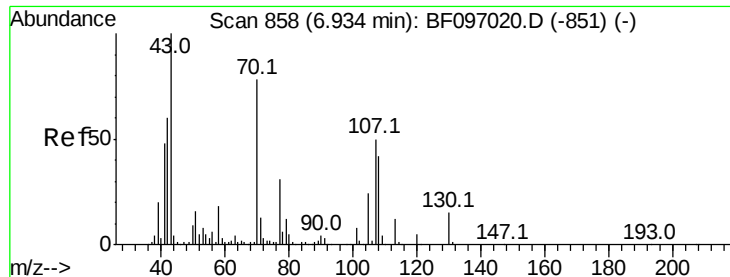


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

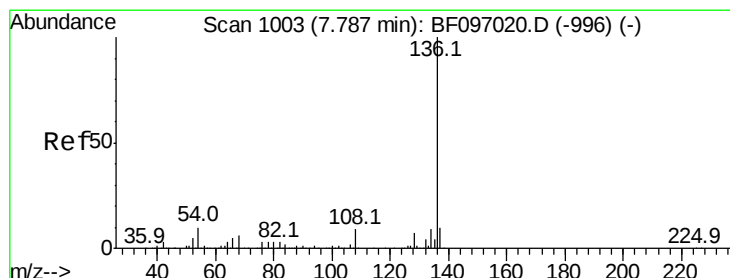
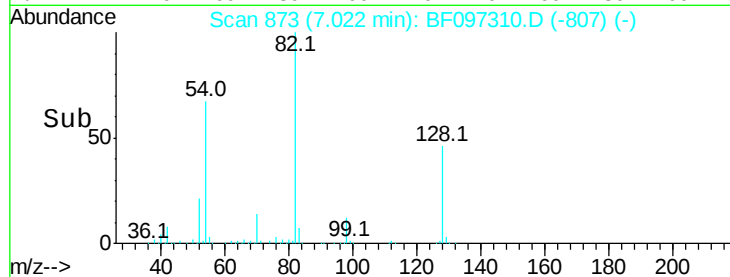
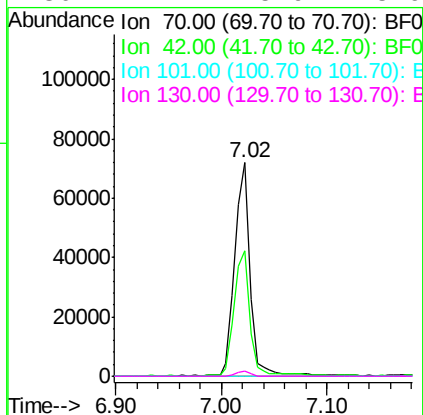
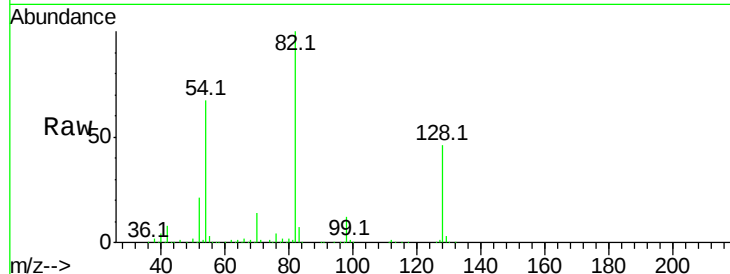




#19
 n-Nitroso-di-n-propylamine
 Concen: 13.961 ng
 RT: 7.02 min Scan# 873
 Delta R.T. 0.09 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

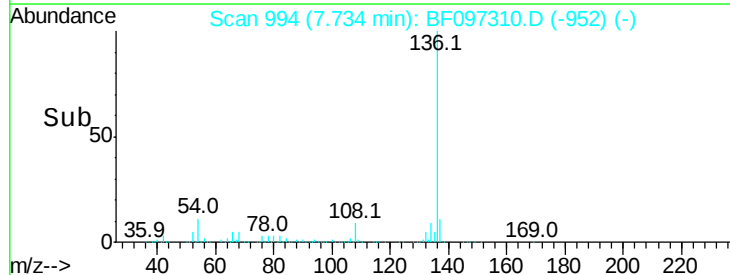
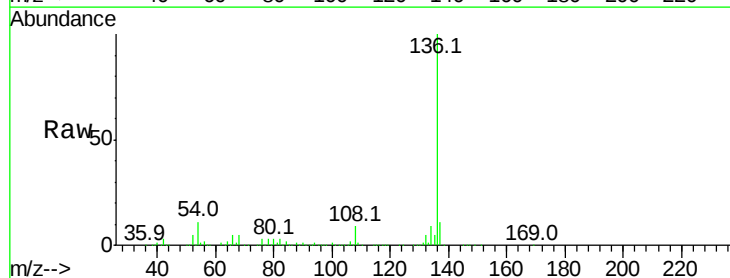
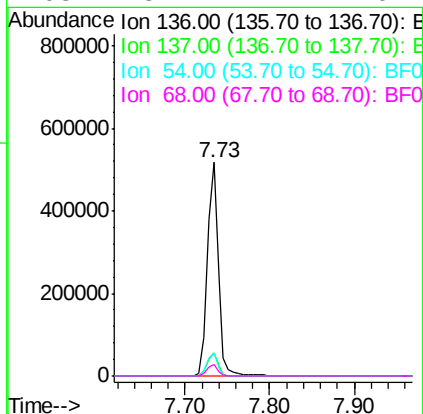
Instrument :
 BNA_F
 ClientSampleId :

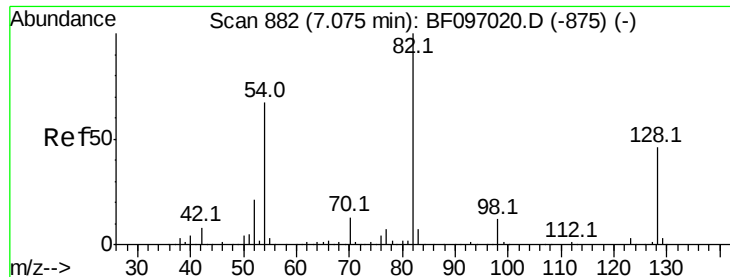
Tot Ion: 70 Resp: 72705
 Ion Ratio Lower Upper
 70 100
 42 58.5 47.2 70.8
 101 0.0 7.2 10.8#
 130 2.4 15.9 23.9#



#21
 Naphthalene-d8
 Concen: 20.000 ng
 RT: 7.73 min Scan# 994
 Delta R.T. -0.05 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

Tgt Ion:136 Resp: 466888
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.5 12.7
 54 10.5 4.9 7.3#
 68 5.2 4.1 6.1

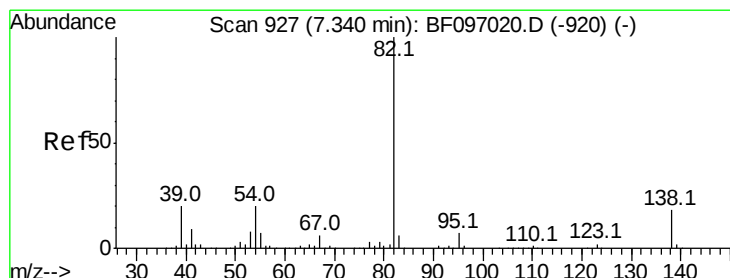
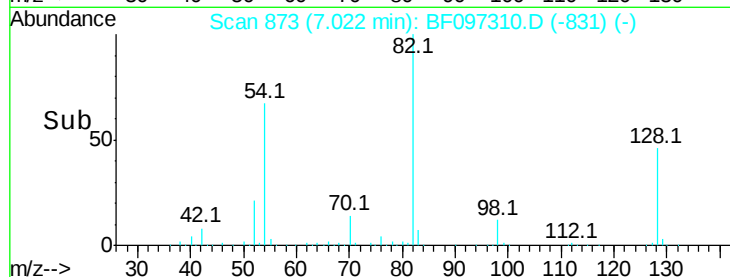
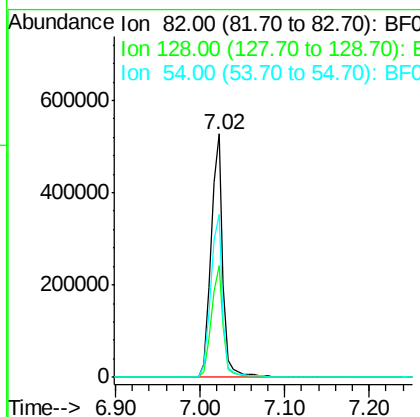
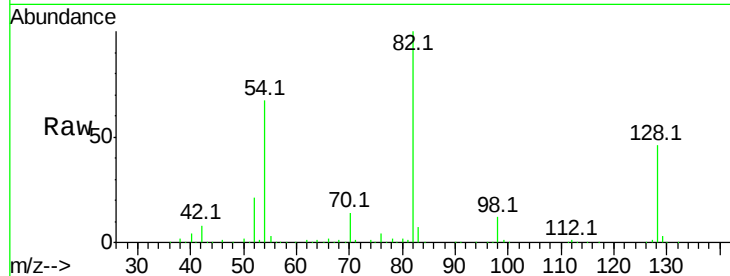




#23
 Nitrobenzene-d5
 Concen: 65.885 ng
 RT: 7.02 min Scan# 873
 Delta R.T. -0.05 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

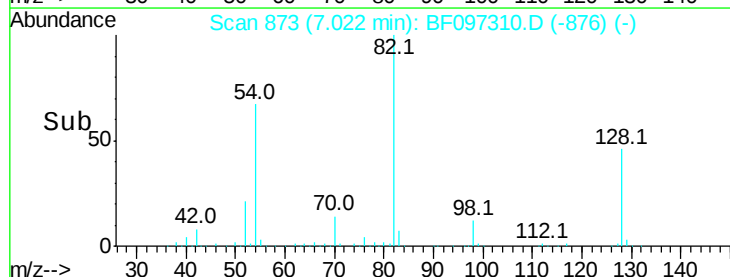
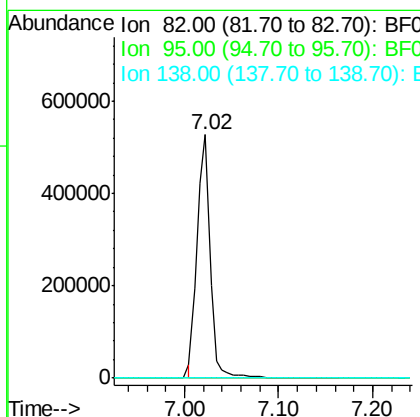
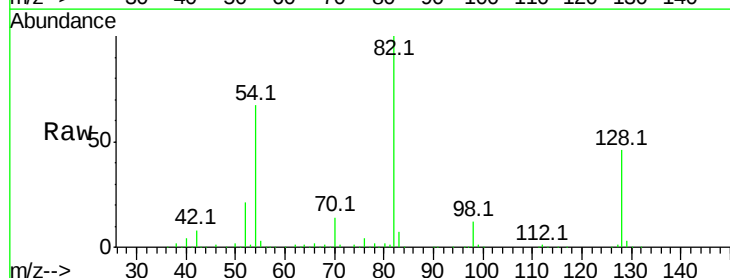
Instrument :
 BNA_F
 ClientSampleId :

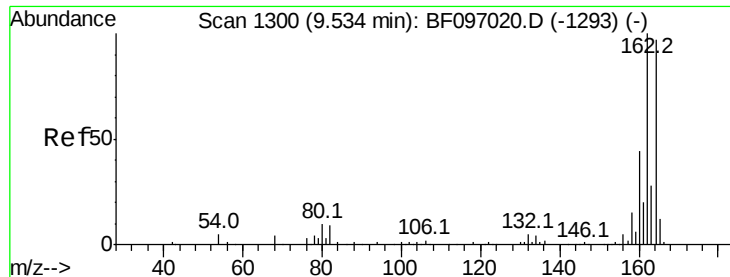
Tot Ion: 82 Resp: 524354
 Ion Ratio Lower Upper
 82 100
 128 46.0 34.0 51.0
 54 66.8 42.2 63.2#



#25
 Isophorone
 Concen: 32.701 ng
 RT: 7.02 min Scan# 873
 Delta R.T. -0.32 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

Tgt Ion: 82 Resp: 509687
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.3 7.9#
 138 0.0 13.1 19.7#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.47 min Scan# 1290

Delta R.T. -0.06 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :

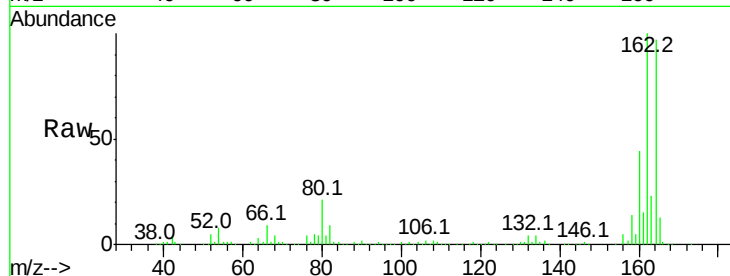
Tot Ion:164 Resp: 200085

Ion Ratio Lower Upper

164 100

162 102.6 82.6 123.8

160 45.4 36.2 54.2

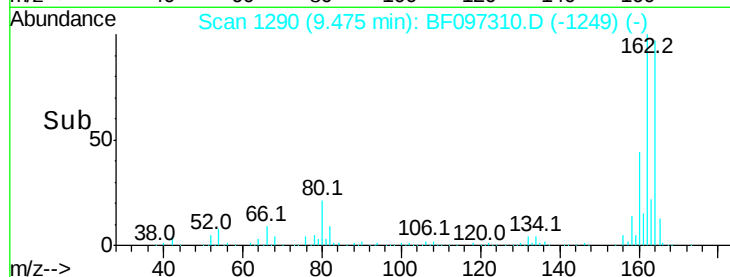


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

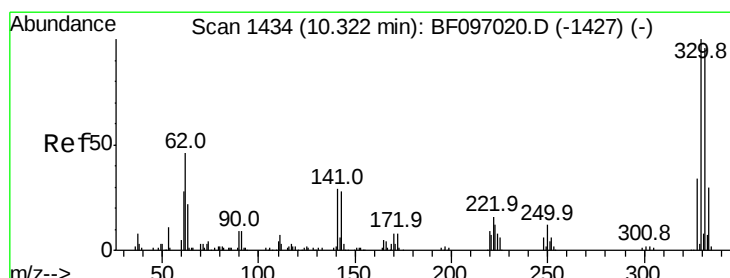
Ion 160.00 (159.70 to 160.70): E

Time-->



Abundance

Time-->



#41

2,4,6-Tribromophenol

Concen: 102.161 ng

RT: 10.27 min Scan# 1425

Delta R.T. -0.05 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

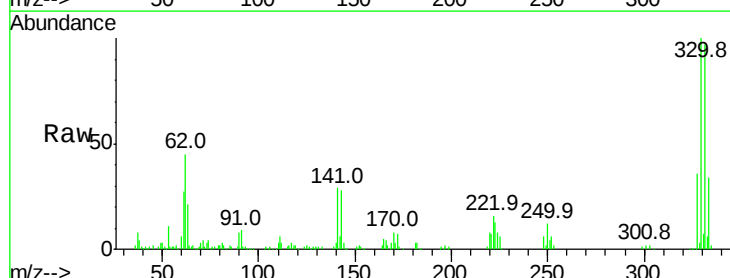
Tgt Ion:330 Resp: 161503

Ion Ratio Lower Upper

330 100

332 95.8 76.6 115.0

141 38.2 31.4 47.2

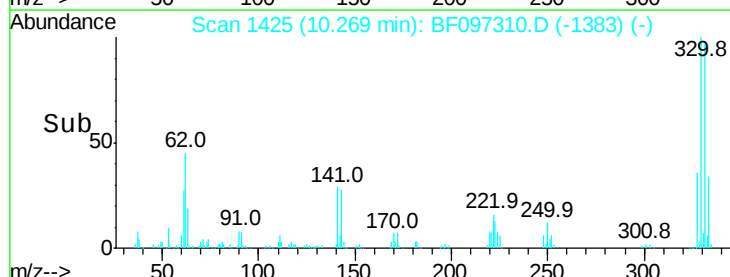


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

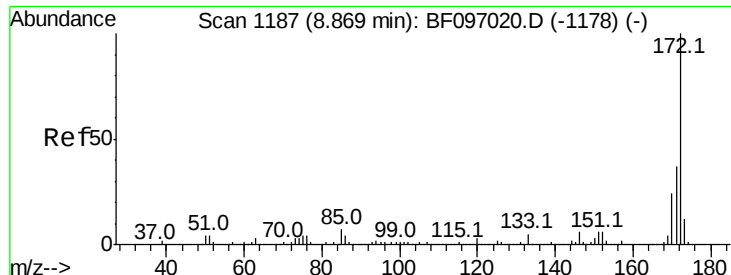
Ion 141.00 (140.70 to 141.70): E

Time-->



Abundance

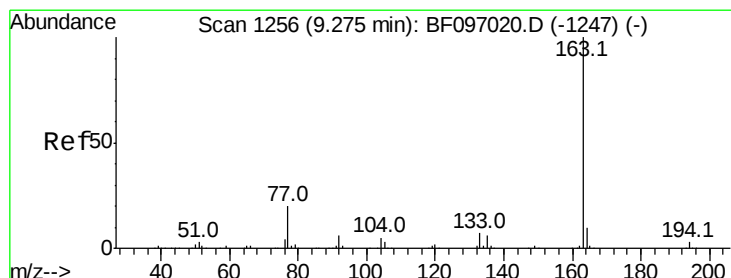
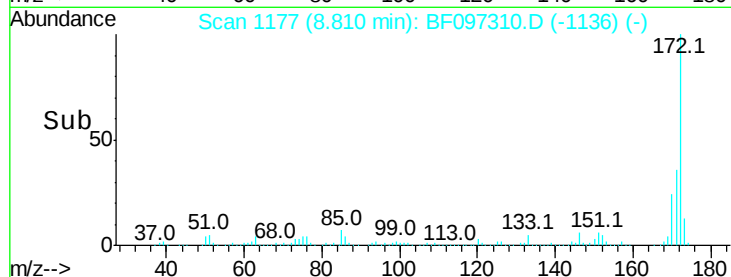
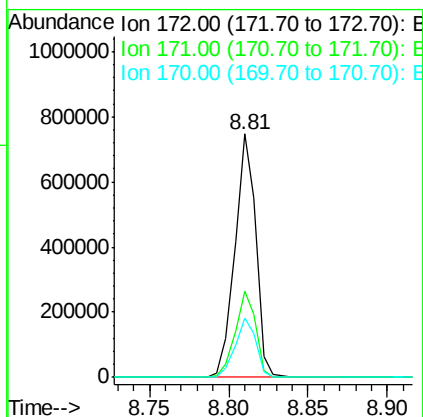
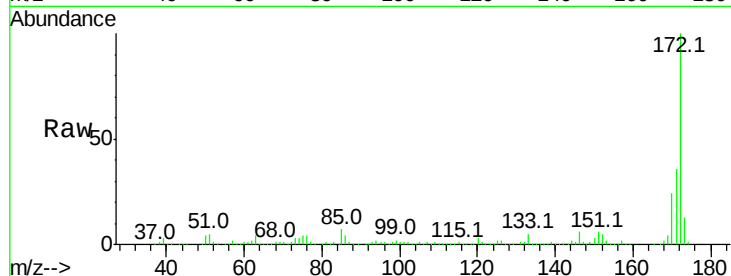
Time-->



#44
2-Fluorobiphenyl
Concen: 57.981 ng
RT: 8.81 min Scan# 1177
Delta R.T. -0.06 min
Lab File: BF097310.D
Acq: 3 Aug 2017 10:08

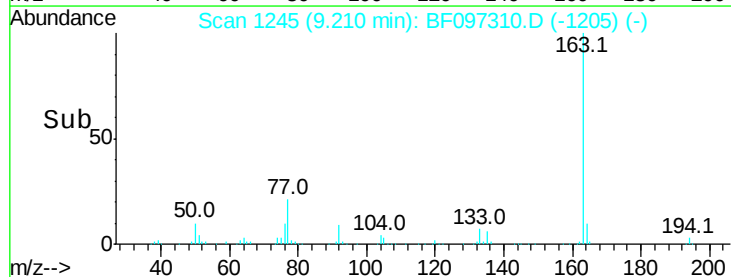
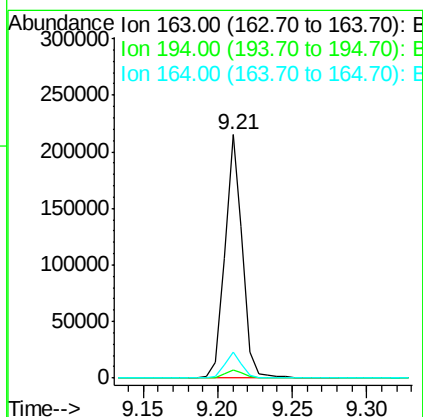
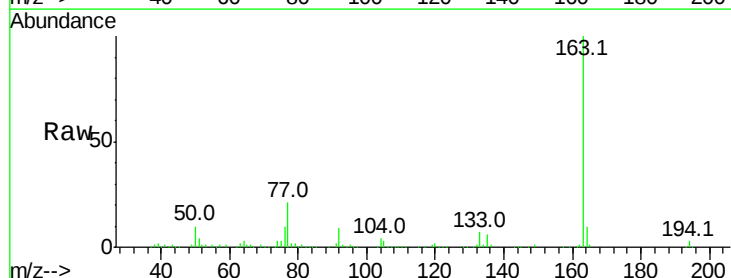
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BNA_F
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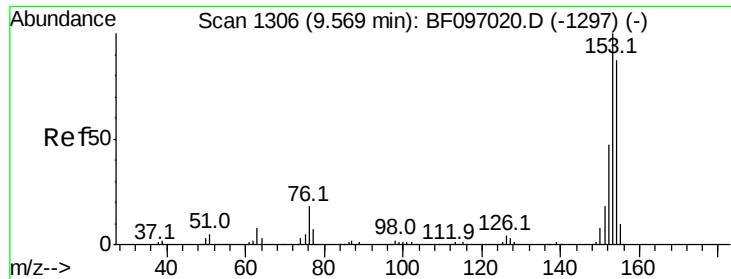
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.6	44.4
170	24.2	19.8	29.8



#49
Dimethylphthalate
Concen: 11.714 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.06 min
Lab File: BF097310.D
Acq: 3 Aug 2017 10:08

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.6	4.0
164	10.5	8.4	12.6





#51

Acenaphthene

Concen: 2.209 ng

RT: 9.51 min Scan# 1296

Delta R.T. -0.06 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :

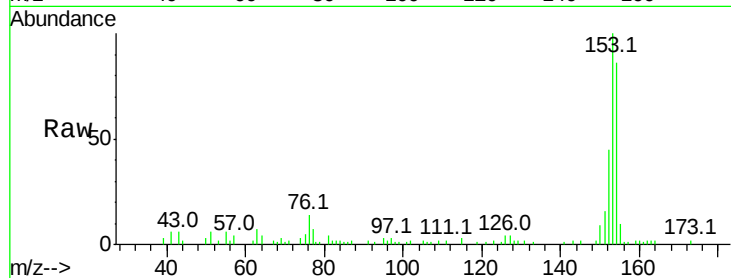
Tot Ion:154 Resp: 25122

Ion Ratio Lower Upper

154 100

153 115.7 90.5 135.7

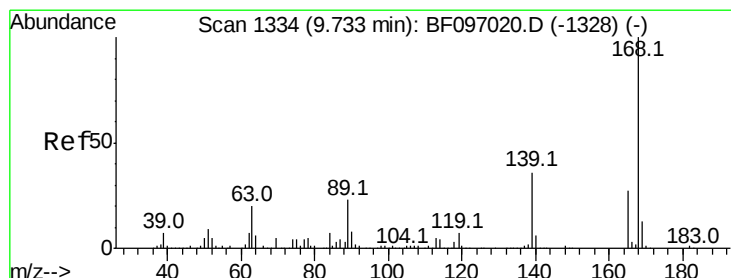
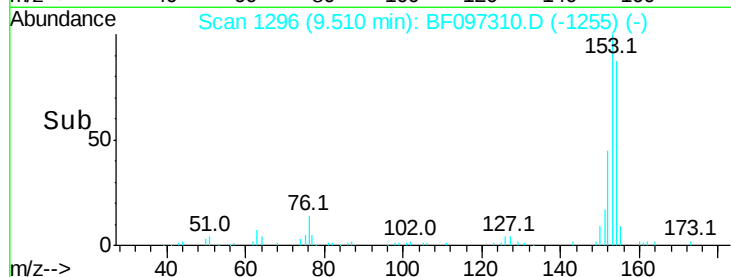
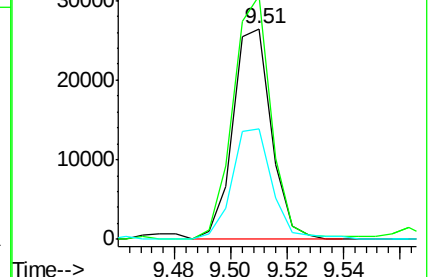
152 52.4 43.6 65.4



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



#56

2,4-Dinitrotoluene

Concen: 7.036 ng

RT: 9.47 min Scan# 1290

Delta R.T. -0.26 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Tgt Ion:165 Resp: 26067

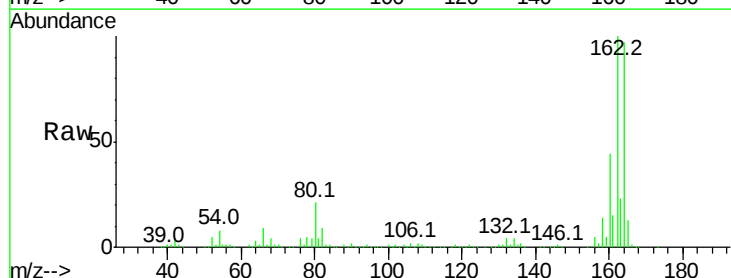
Ion Ratio Lower Upper

165 100

63 1.5 25.4 38.0#

89 1.2 46.4 69.6#

182 0.0 1.8 2.6#

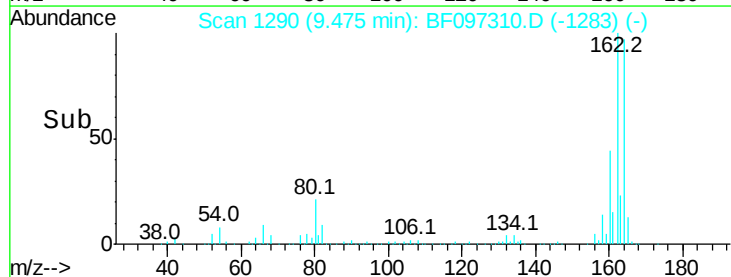
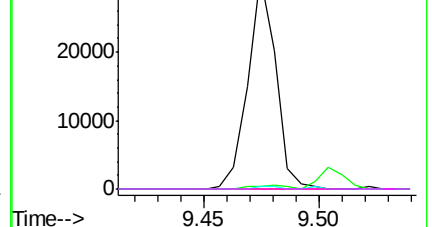


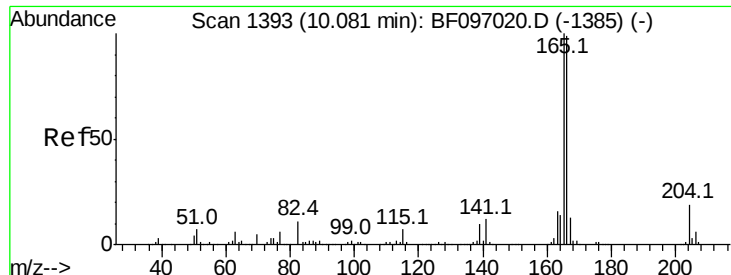
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

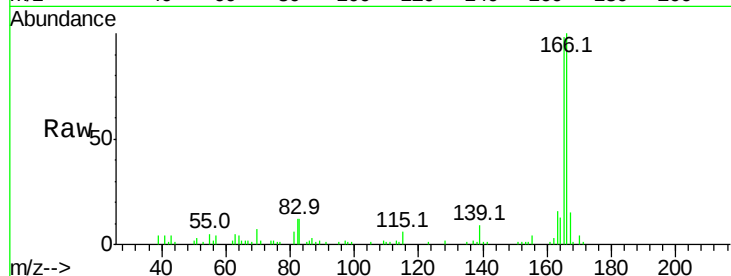




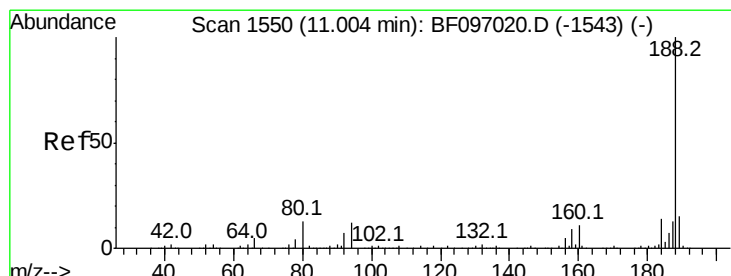
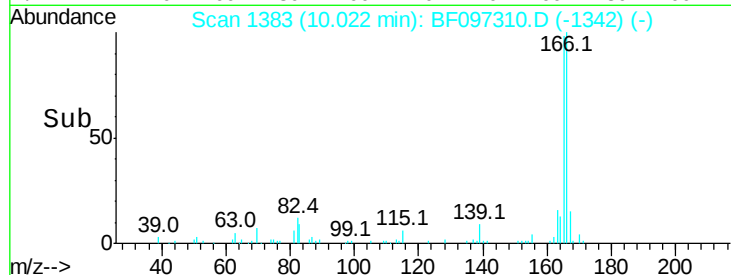
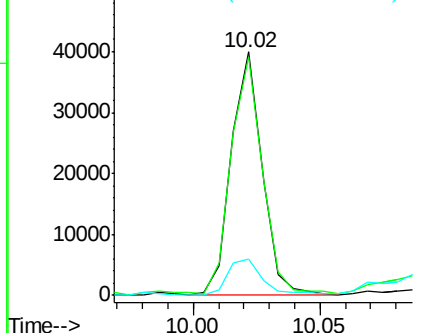
#57
Fluorene
 Concen: 2.994 ng
 RT: 10.02 min Scan# 1383
 Delta R.T. -0.06 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 34077
 Ion Ratio Lower Upper
 166 100
 165 98.0 78.8 118.2
 167 14.7 10.6 16.0

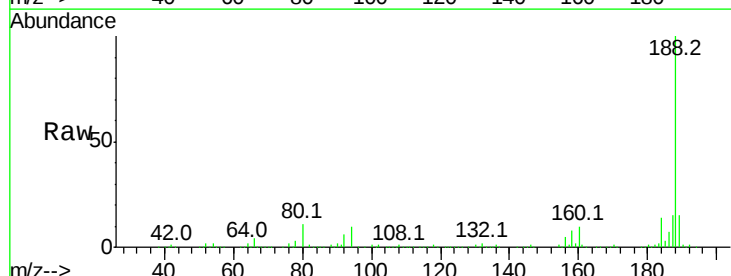


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

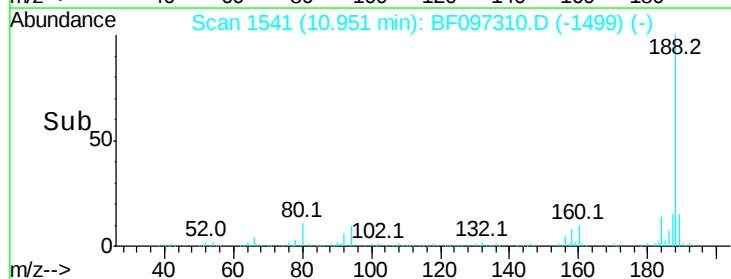
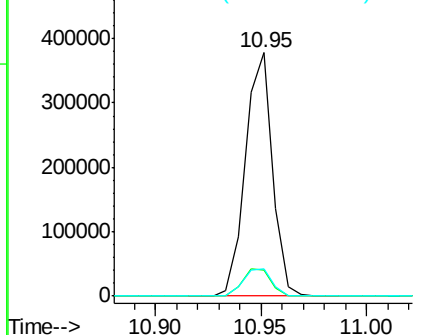


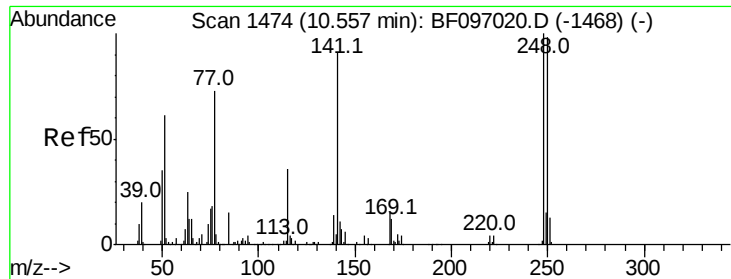
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.95 min Scan# 1541
 Delta R.T. -0.05 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

Tgt Ion:188 Resp: 335457
 Ion Ratio Lower Upper
 188 100
 94 10.5 9.4 14.2
 80 11.0 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

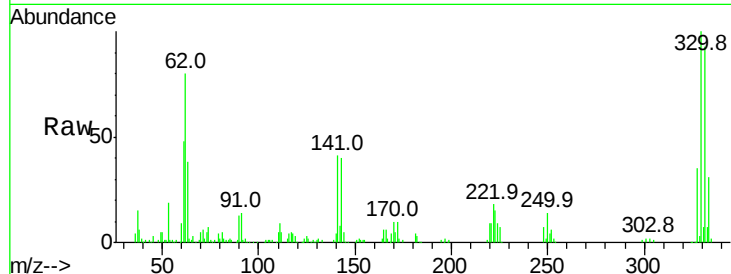




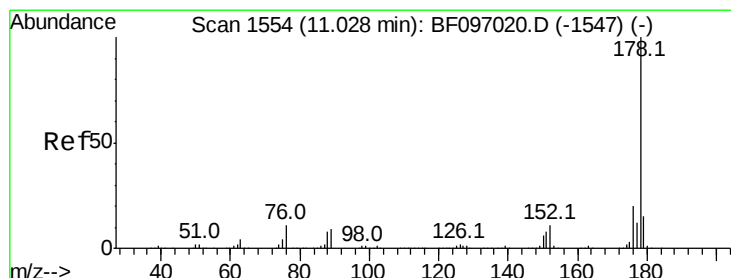
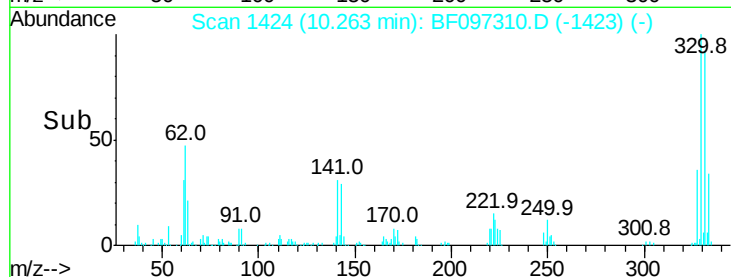
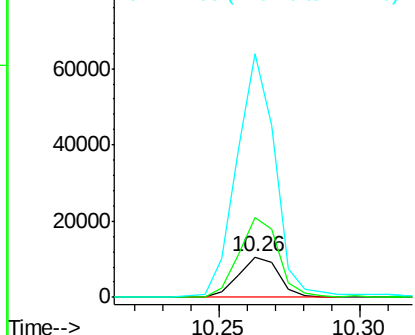
#66
 4-Bromophenyl-phenylether
 Concen: 3.150 ng
 RT: 10.26 min Scan# 1424
 Delta R.T. -0.29 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 10545
 Ion Ratio Lower Upper
 248 100
 250 198.6 76.8 115.2#
 141 605.8 68.6 103.0#

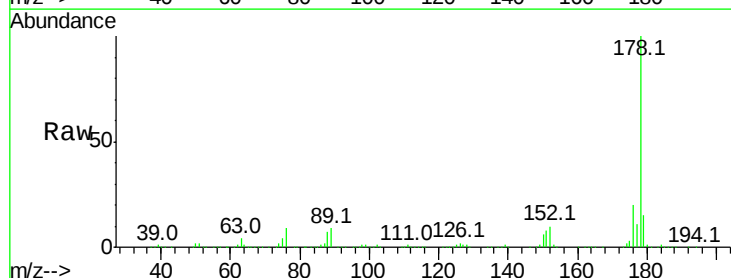


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

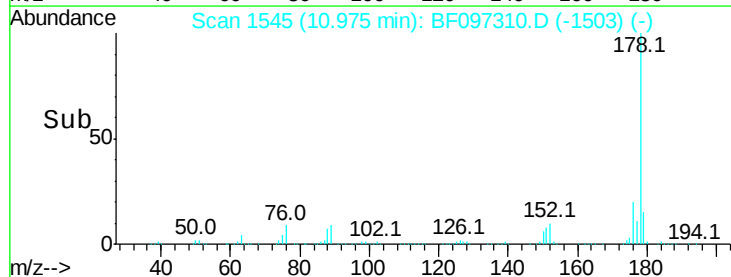
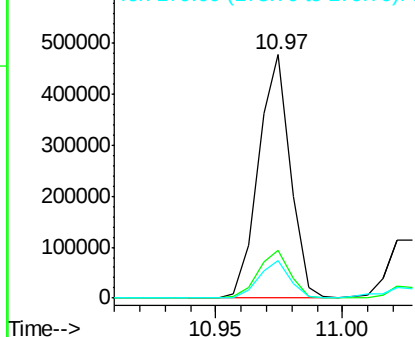


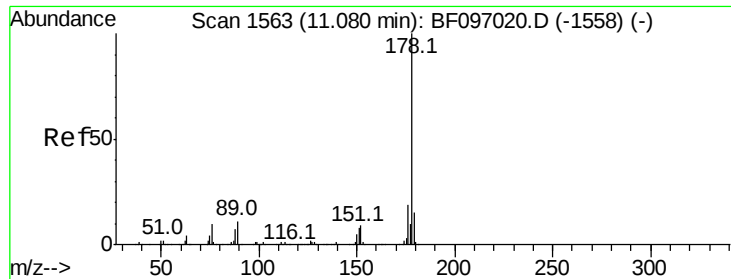
#70
 Phenanthrene
 Concen: 23.173 ng
 RT: 10.97 min Scan# 1545
 Delta R.T. -0.05 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

Tgt Ion:178 Resp: 416515
 Ion Ratio Lower Upper
 178 100
 176 19.6 16.2 24.4
 179 15.2 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

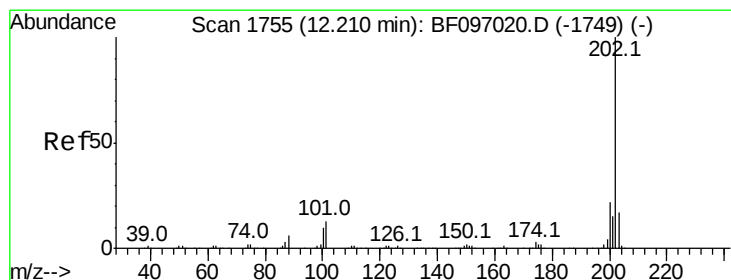
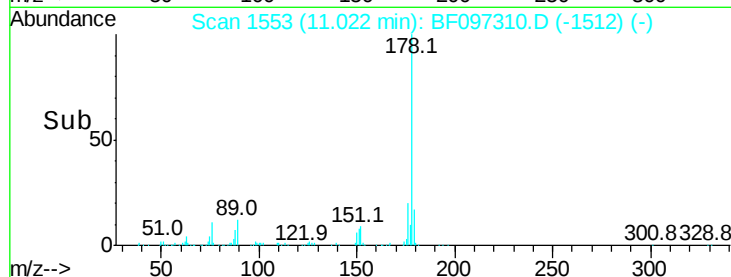
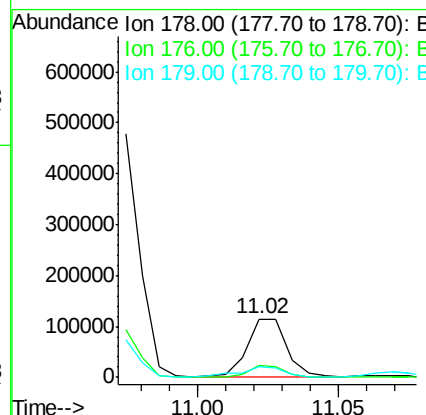
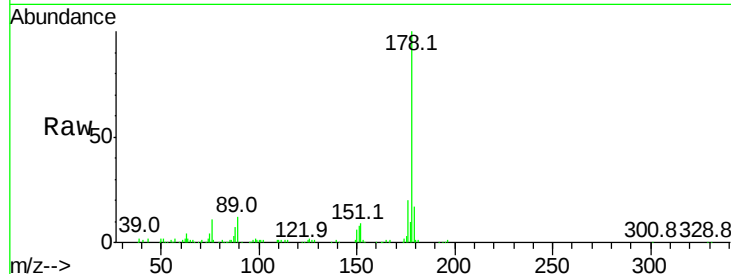




#71
 Anthracene
 Concen: 5.964 ng
 RT: 11.02 min Scan# 1553
 Delta R.T. -0.06 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

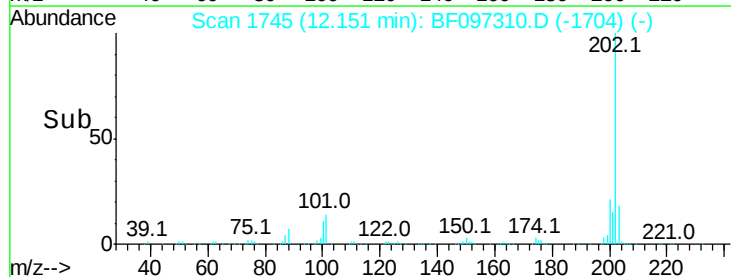
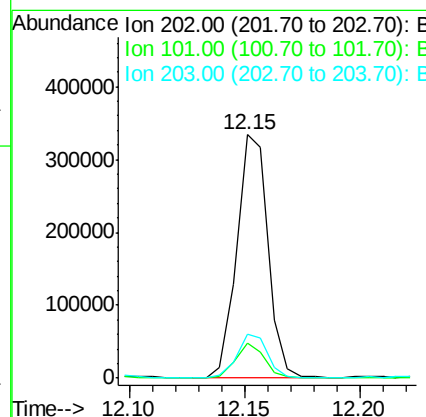
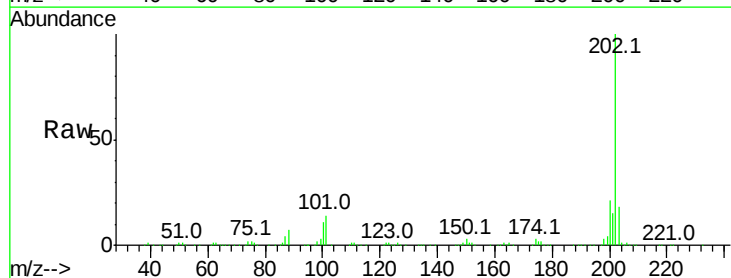
Instrument :
 BNA_F
 ClientSampleId :

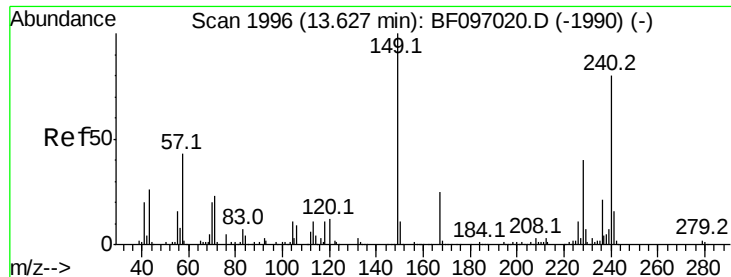
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.8
179	17.4	12.7	19.1



#74
 Fluoranthene
 Concen: 17.784 ng
 RT: 12.15 min Scan# 1745
 Delta R.T. -0.06 min
 Lab File: BF097310.D
 Acq: 3 Aug 2017 10:08

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.4	0.0	33.2
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.57 min Scan# 1986

Delta R.T. -0.06 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :

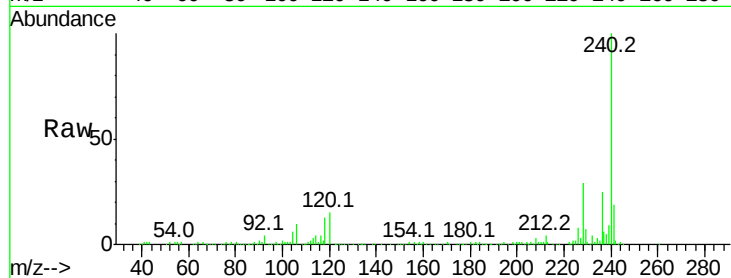
Tot Ion:240 Resp: 196291

Ion Ratio Lower Upper

240 100

120 15.4 5.8 8.8#

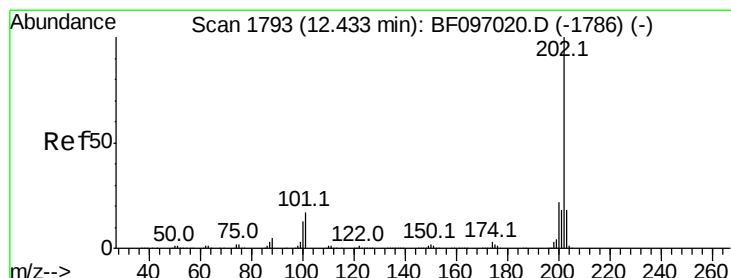
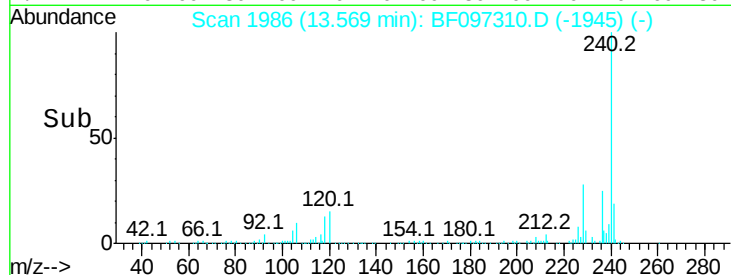
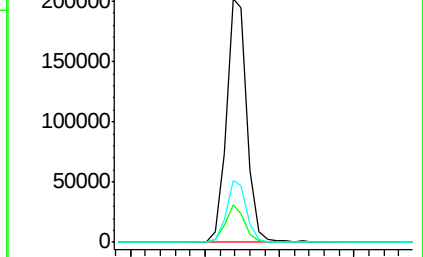
236 25.3 20.5 30.7



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: 22.870 ng

RT: 12.38 min Scan# 1784

Delta R.T. -0.05 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

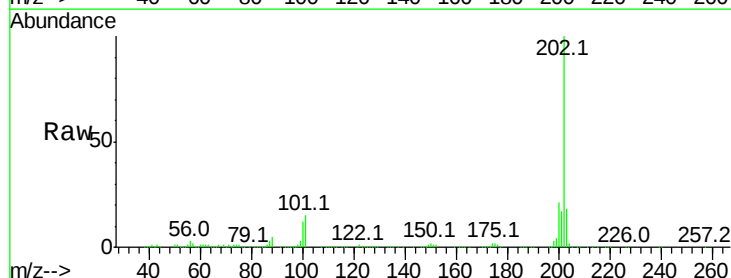
Tgt Ion:202 Resp: 367516

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

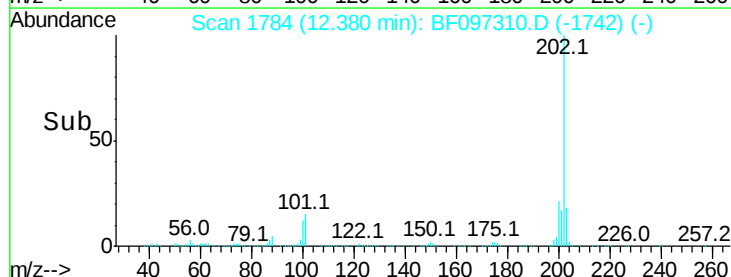
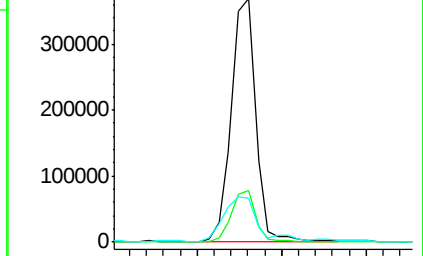
203 18.0 14.4 21.6

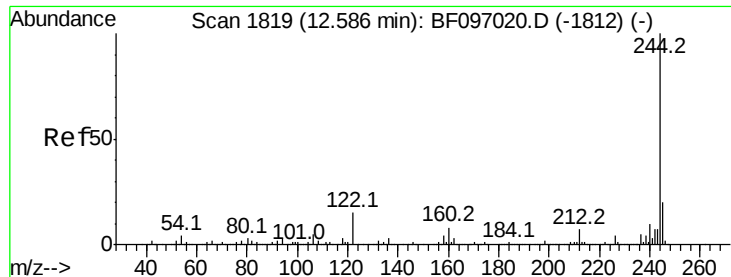


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 45.794 ng

RT: 12.53 min Scan# 1810

Delta R.T. -0.05 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :

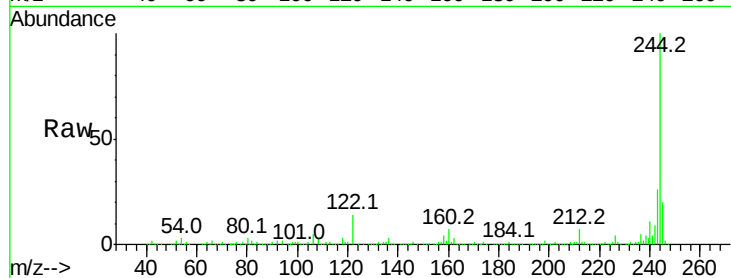
Tot Ion:244 Resp: 440879

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

122 14.1 10.3 15.5

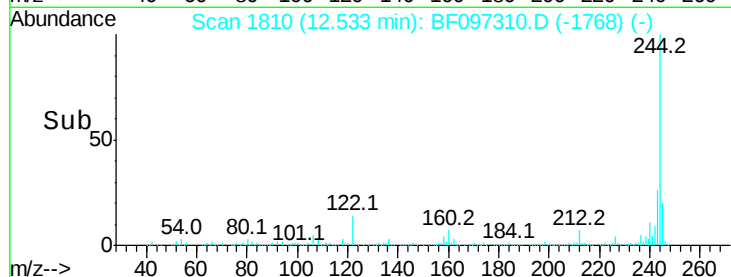


Abundance Ion 244.00 (243.70 to 244.70): E

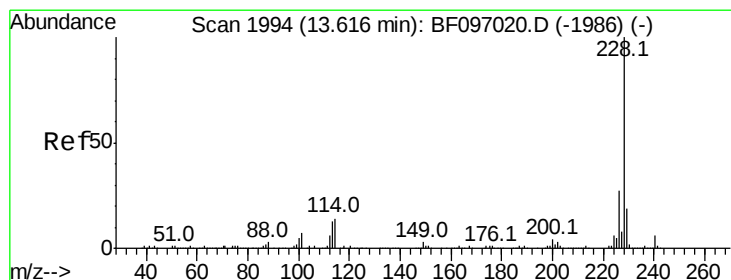
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.53



Time--> 12.45 12.50 12.55 12.60



#80

Benzo(a)anthracene

Concen: 9.070 ng

RT: 13.56 min Scan# 1985

Delta R.T. -0.05 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

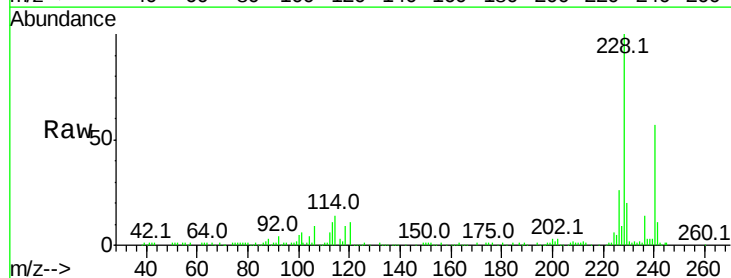
Tgt Ion:228 Resp: 115192

Ion Ratio Lower Upper

228 100

226 26.0 22.6 33.8

229 19.7 16.3 24.5

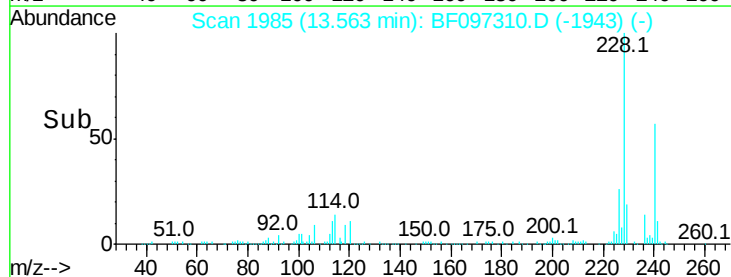


Abundance Ion 228.00 (227.70 to 228.70): E

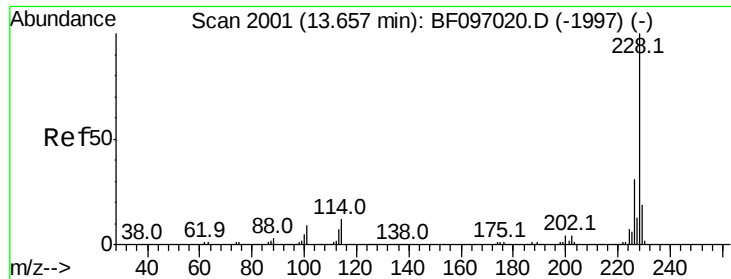
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

13.56



Time--> 13.50 13.55



#82

Chrysene

Concen: 9.410 ng

RT: 13.60 min Scan# 1991

Delta R.T. -0.06 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :

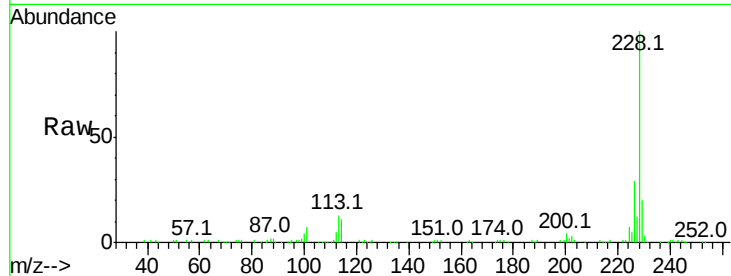
Tot Ion:228 Resp: 116708

Ion Ratio Lower Upper

228 100

226 28.8 24.9 37.3

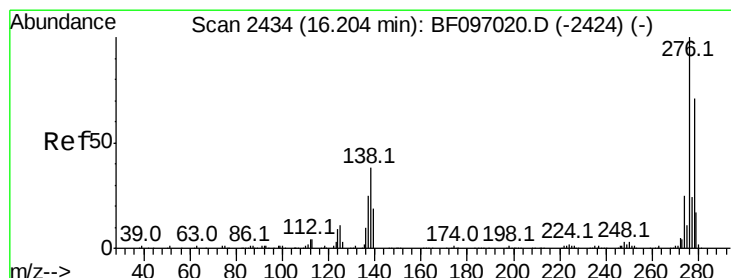
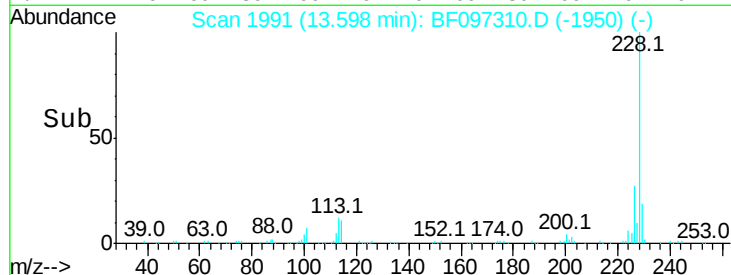
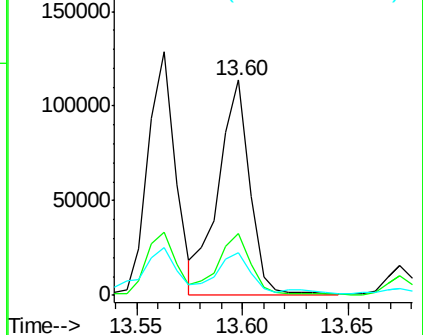
229 19.6 15.8 23.6



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: 2.921 ng

RT: 16.12 min Scan# 2420

Delta R.T. -0.08 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

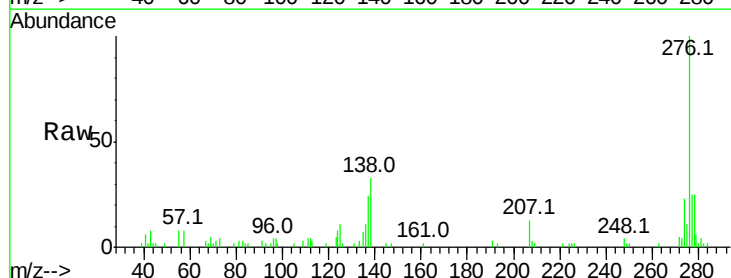
Tgt Ion:276 Resp: 31062

Ion Ratio Lower Upper

276 100

138 32.1 27.8 41.6

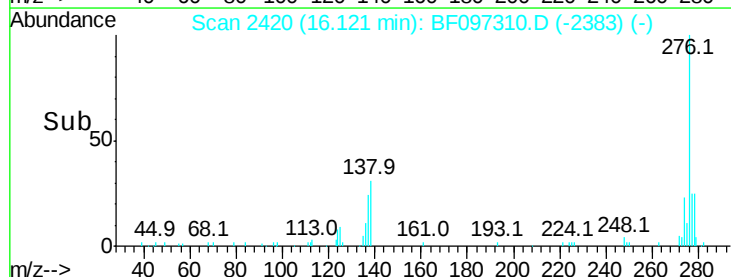
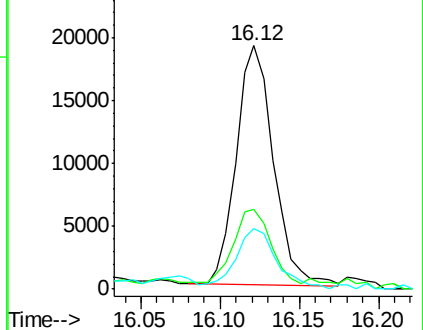
277 28.0 20.2 30.4

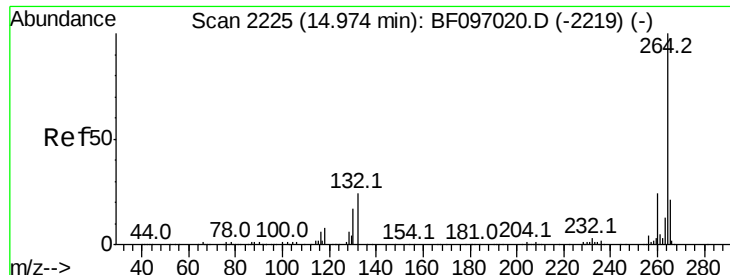


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



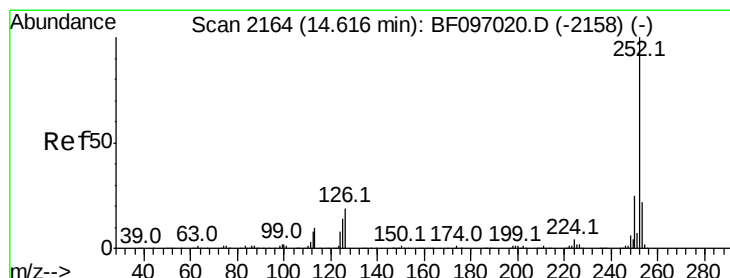
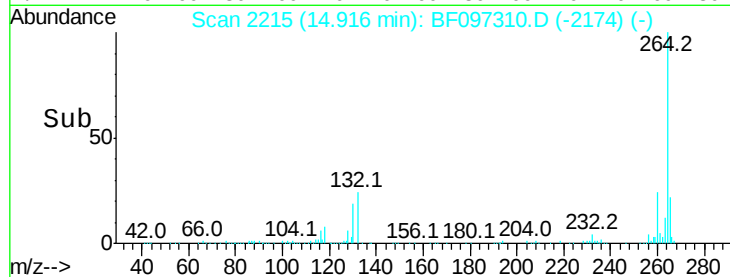
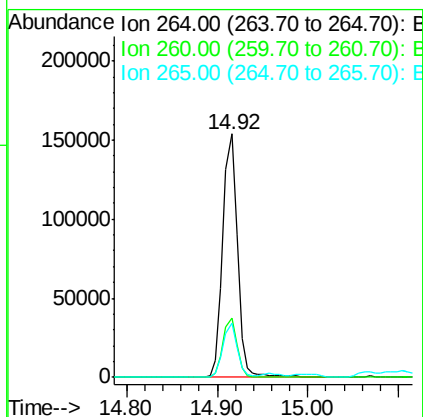
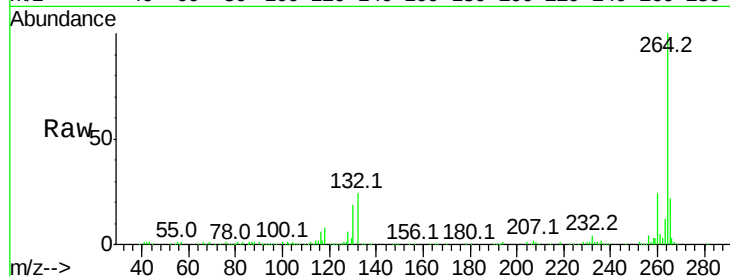


#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.06 min
Lab File: BF097310.D
Acq: 3 Aug 2017 10:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 172446

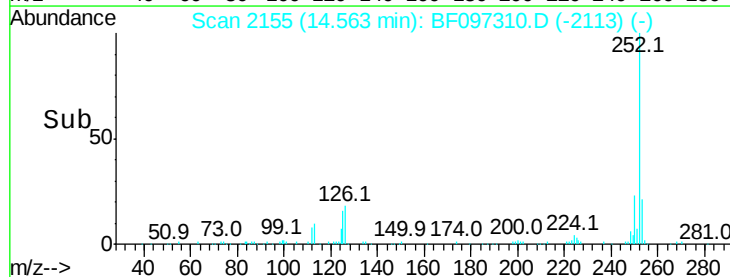
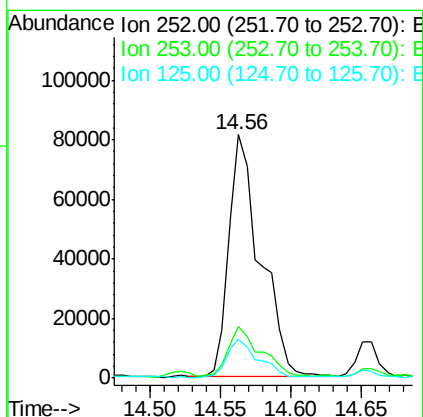
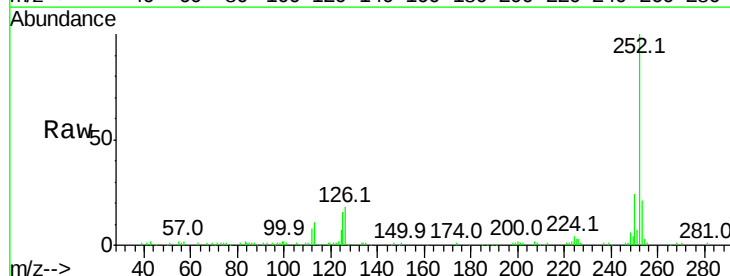
Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.4	17.2	25.8

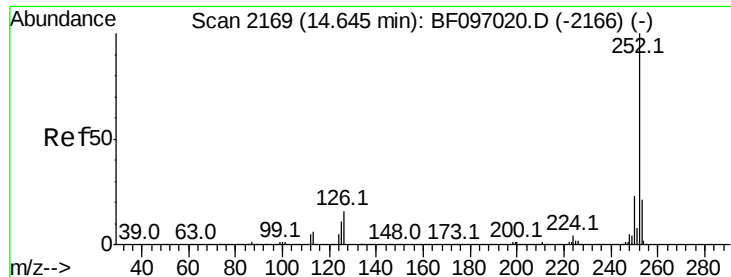


#87
Benzo(b)fluoranthene
Concen: 12.257 ng
RT: 14.56 min Scan# 2155
Delta R.T. -0.05 min
Lab File: BF097310.D
Acq: 3 Aug 2017 10:08

Tgt Ion:252 Resp: 127061

Ion	Ratio	Lower	Upper
252	100		
253	21.1	18.1	27.1
125	15.9	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 12.863 ng

RT: 14.56 min Scan# 2155

Delta R.T. -0.08 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :

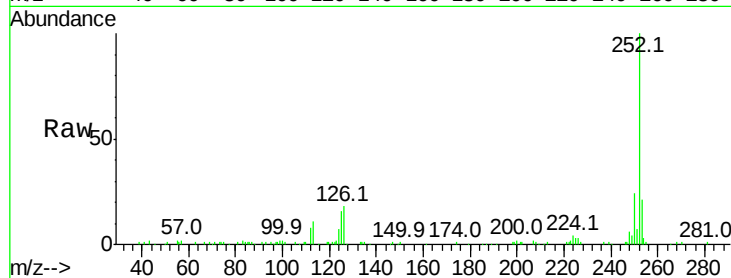
Tot Ion:252 Resp: 127061

Ion Ratio Lower Upper

252 100

253 21.1 18.4 27.6

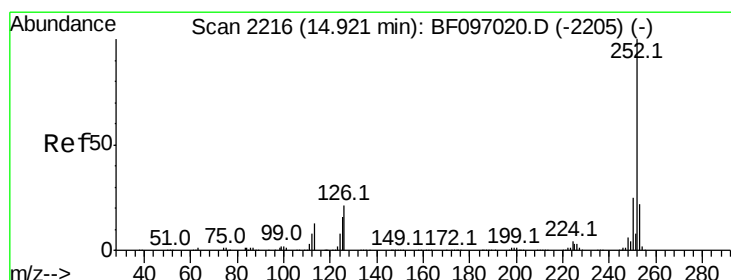
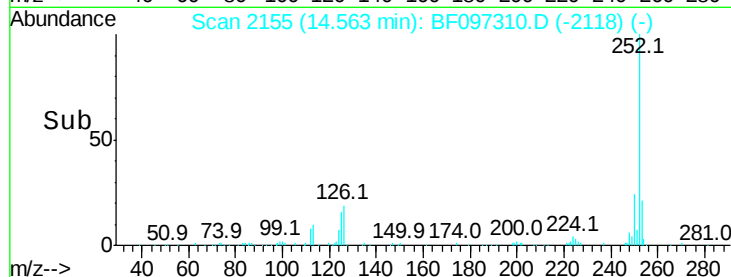
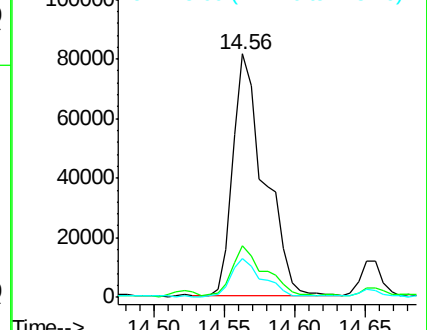
125 15.9 13.1 19.7



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: 7.996 ng

RT: 14.86 min Scan# 2206

Delta R.T. -0.06 min

Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

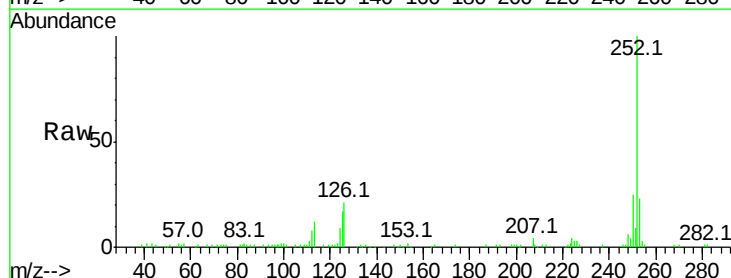
Tgt Ion:252 Resp: 75862

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

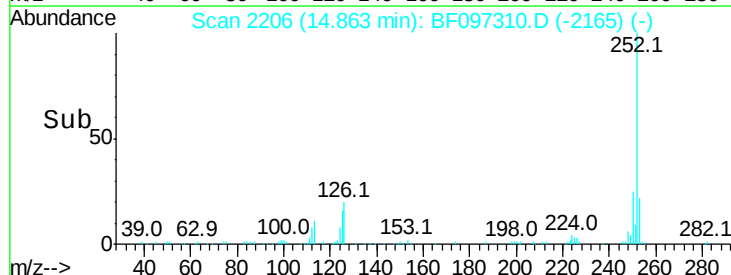
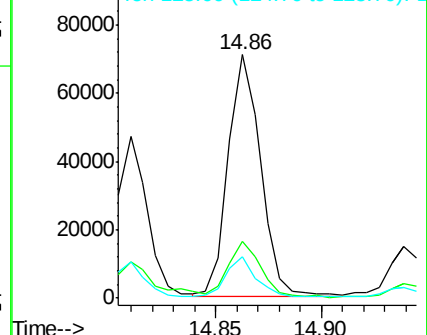
125 16.8 11.0 16.4#

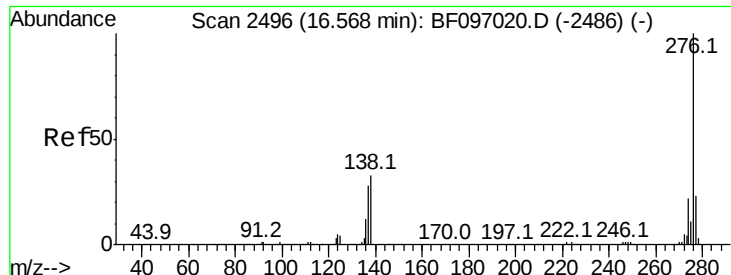


Abundance Ion 252.00 (251.70 to 252.70): E

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: 3.575 ng

RT: 16.48 min Scan# 2481

Delta R.T. -0.09 min

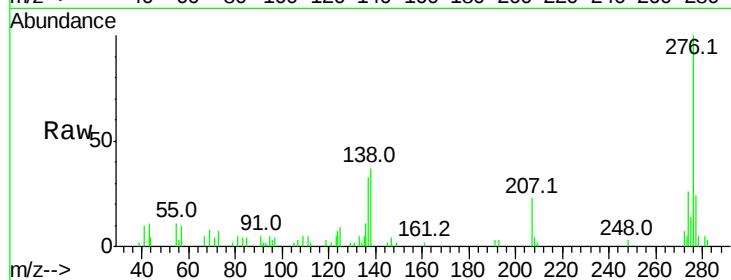
Lab File: BF097310.D

Acq: 3 Aug 2017 10:08

Instrument :

BNA_F

ClientSampleId :



Tot Ion: 276 Resp: 29166

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 36.7 25.4 38.0

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

