

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\
 Data File : BF097292.D
 Acq On : 2 Aug 2017 23:57
 Operator : SJ/JU
 Sample : I4540-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 03 00:48:48 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

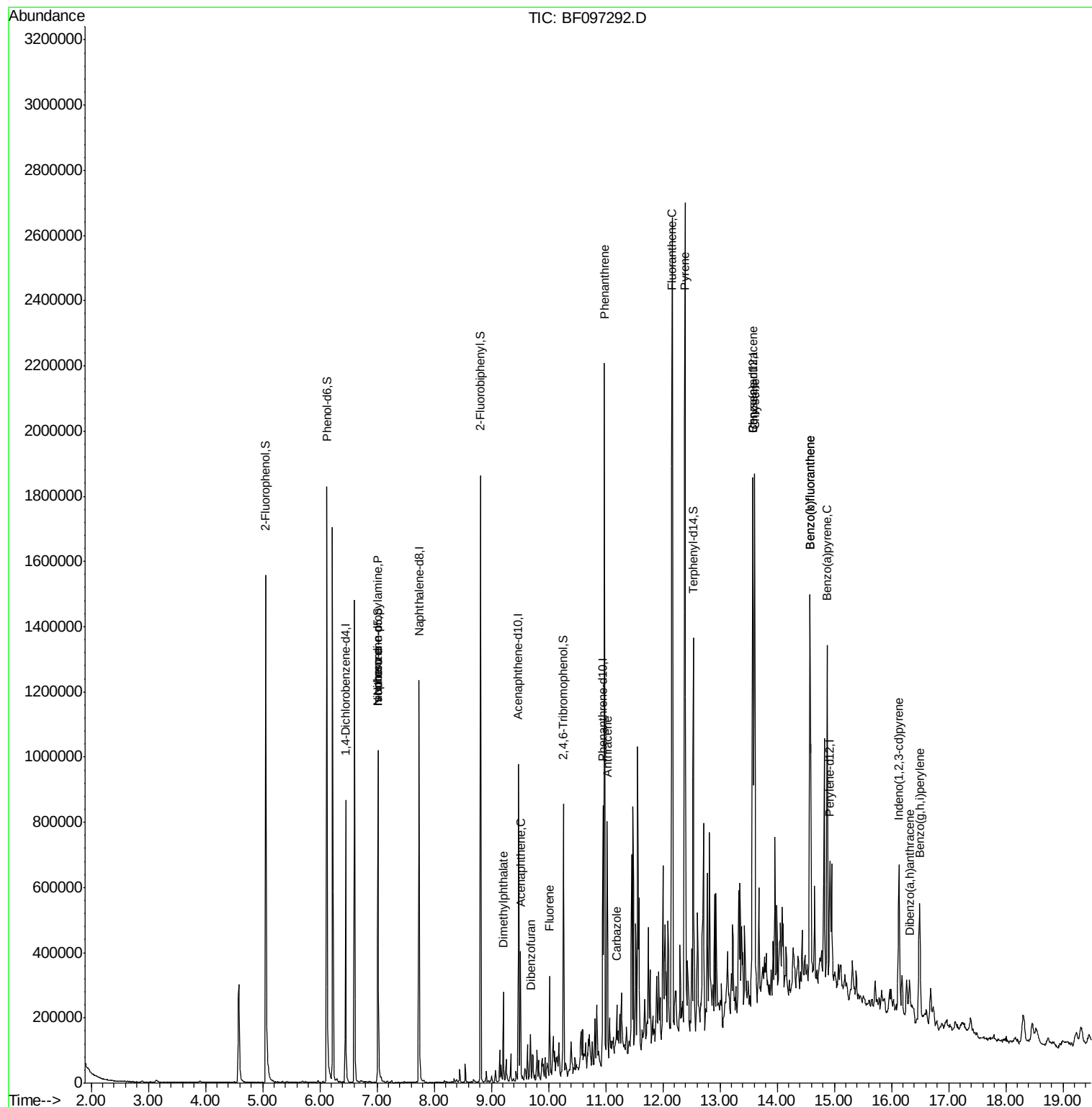
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	125094	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	499451	20.00	ng	-0.05
38) Acenaphthene-d10	9.47	164	191742	20.00	ng	-0.06
63) Phenanthrene-d10	10.95	188	276670	20.00	ng	-0.05
75) Chrysene-d12	13.58	240	189961	20.00	ng	-0.05
86) Perylene-d12	14.92	264	159655	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	512488	61.76	ng	-0.05
7) Phenol-d6	6.12	99	596219	62.94	ng	-0.05
23) Nitrobenzene-d5	7.02	82	334245	39.26	ng	-0.05
41) 2,4,6-Tribromophenol	10.26	330	79546	52.51	ng	-0.06
44) 2-Fluorobiphenyl	8.81	172	565550	50.06	ng	-0.06
78) Terphenyl-d14	12.53	244	349310	37.49	ng	-0.05
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.02	70	44865	7.19	ng	# 83
25) Isophorone	7.02	82	324479	19.46	ng	# 67
49) Dimethylphthalate	9.21	163	96284	6.61	ng	99
51) Acenaphthene	9.51	154	76581	7.03	ng	98
54) Dibenzofuran	9.68	168	32698	2.25	ng	# 93
57) Fluorene	10.02	166	69131	6.34	ng	# 97
70) Phenanthrene	10.98	178	817616	55.15	ng	99
71) Anthracene	11.03	178	260657	17.17	ng	98
72) Carbazole	11.19	167	44140	2.96	ng	96
74) Fluoranthene	12.17	202	1191871	82.07	ng	100
77) Pyrene	12.39	202	1278064	82.18	ng	100
80) Benzo(a)anthracene	13.57	228	659814	53.68	ng	99
82) Chrysene	13.61	228	619903	51.65	ng	98
85) Indeno(1,2,3-cd)pyrene	16.13	276	253066	24.59	ng	97
87) Benzo(b)fluoranthene	14.57	252	827000	86.17	ng	# 96
88) Benzo(k)fluoranthene	14.57	252	827000	90.43	ng	100
89) Benzo(a)pyrene	14.87	252	458358	52.18	ng	# 95
90) Dibenzo(a,h)anthracene	16.32	278	57998	8.05	ng	95
91) Benzo(a,h,i)perylene	16.49	276	237952	31.50	ng	98

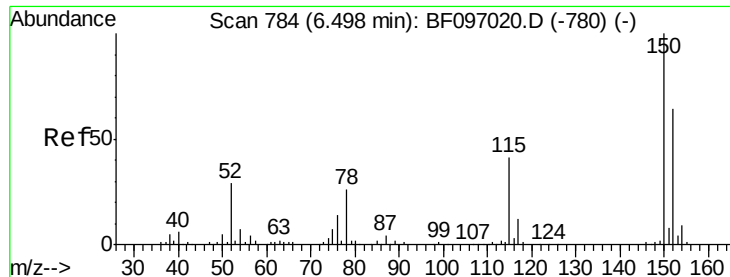
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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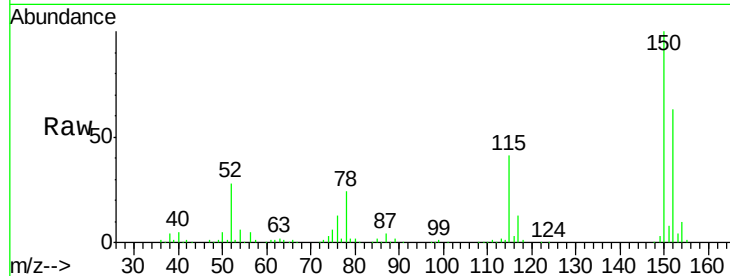


#1

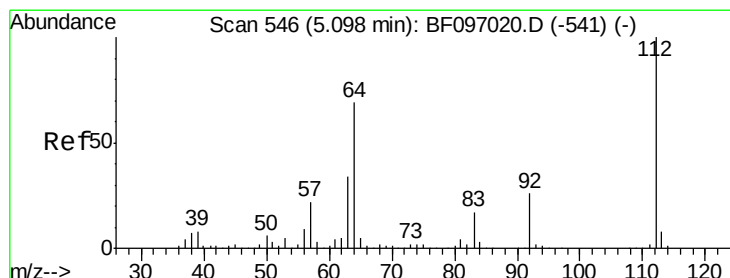
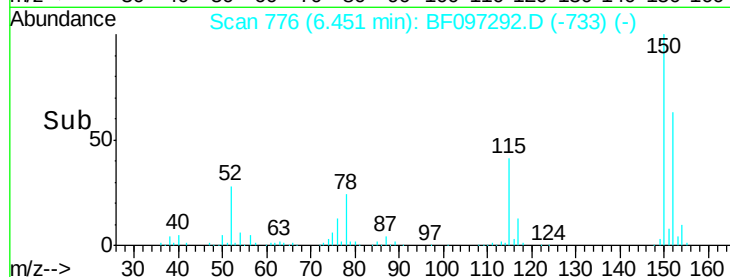
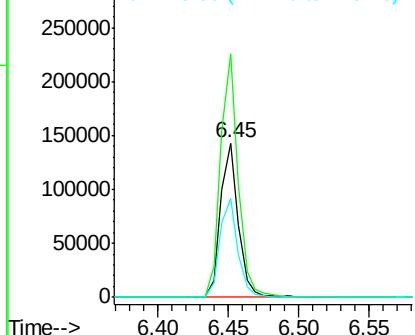
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.45 min Scan# 776
Delta R.T. -0.05 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 125094
Ion Ratio Lower Upper
152 100
150 157.7 126.2 189.2
115 64.5 52.2 78.2



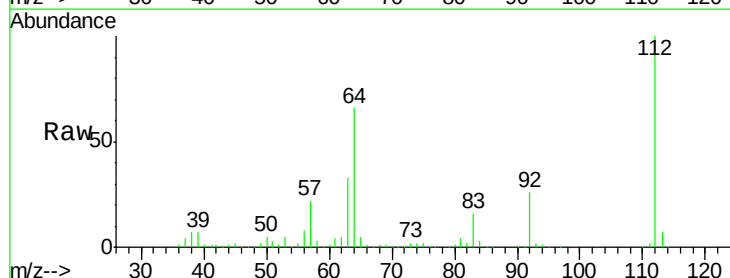
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



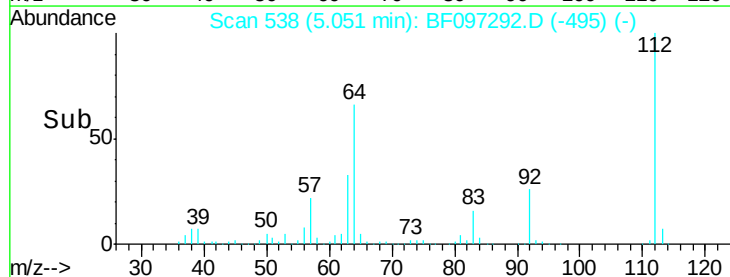
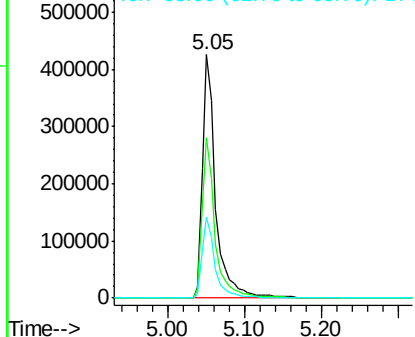
#5

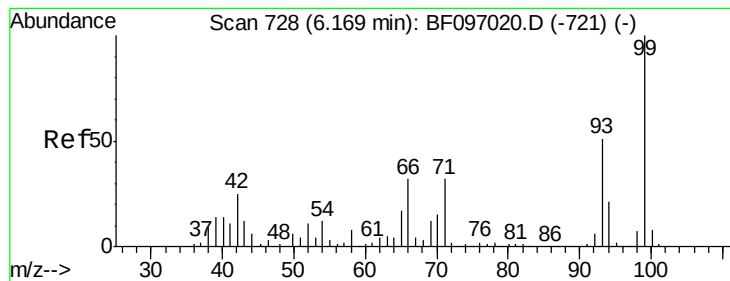
2-Fluorophenol
Concen: 61.76 ng
RT: 5.05 min Scan# 538
Delta R.T. -0.05 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Tgt Ion:112 Resp: 512488
Ion Ratio Lower Upper
112 100
64 65.7 46.0 69.0
63 33.5 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: 62.94 ng

RT: 6.12 min Scan# 720

Delta R.T. -0.05 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampled :

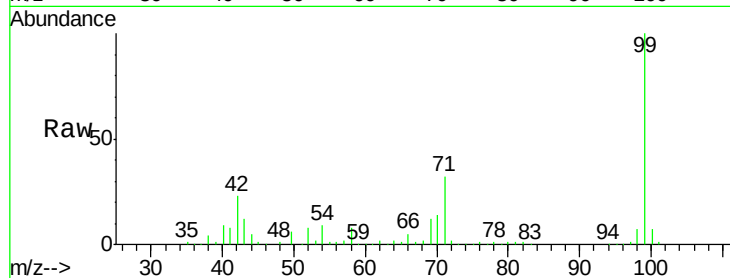
Tot Ion: 99 Resp: 596219

Ion Ratio Lower Upper

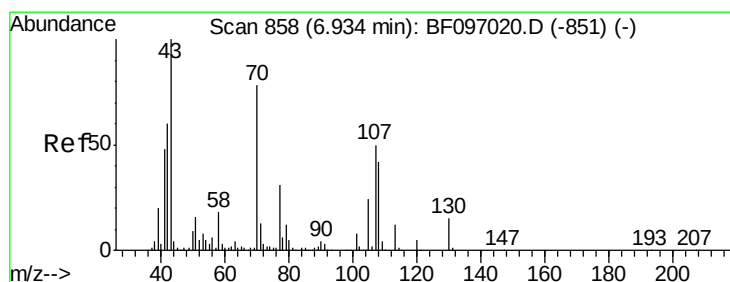
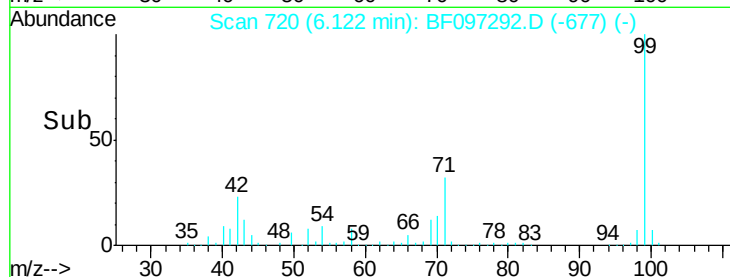
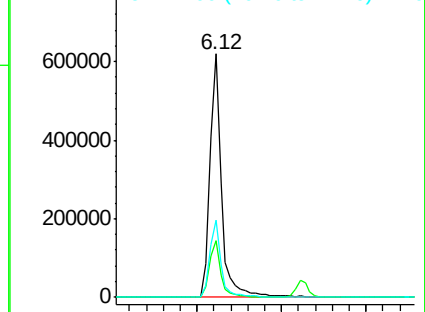
99 100

42 23.2 13.5 20.3#

71 31.7 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



#19

n-Nitroso-di-n-propylamine

Concen: 7.19 ng

RT: 7.02 min Scan# 873

Delta R.T. 0.09 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Tgt Ion: 70 Resp: 44865

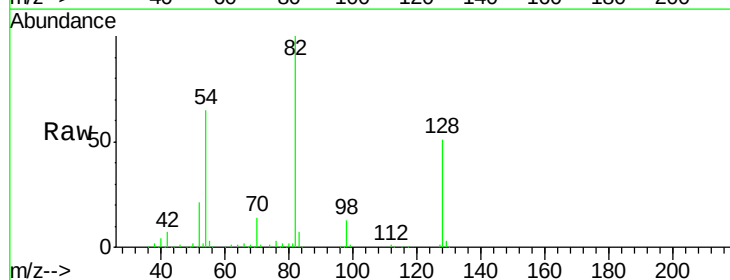
Ion Ratio Lower Upper

70 100

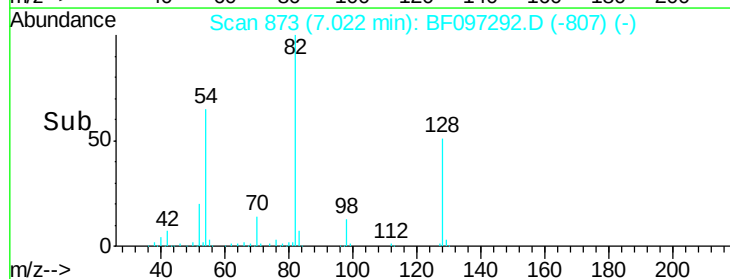
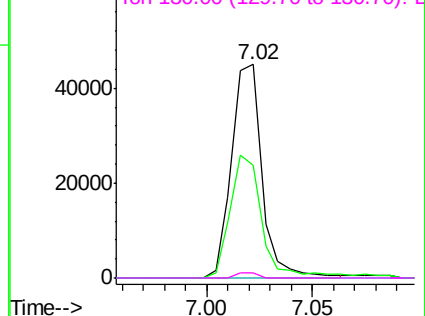
42 53.0 47.2 70.8

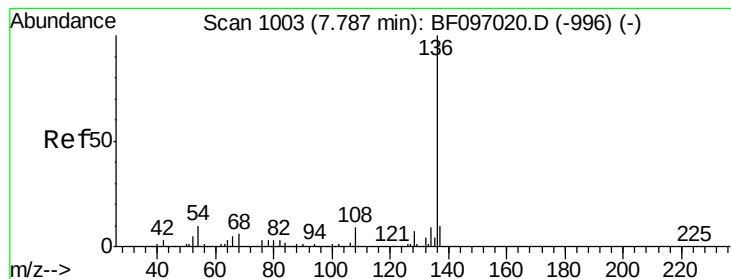
101 0.0 7.2 10.8#

130 2.2 15.9 23.9#



Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): BF0
Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.73 min Scan# 994

Delta R.T. -0.05 min

Lab File: BF097292.D

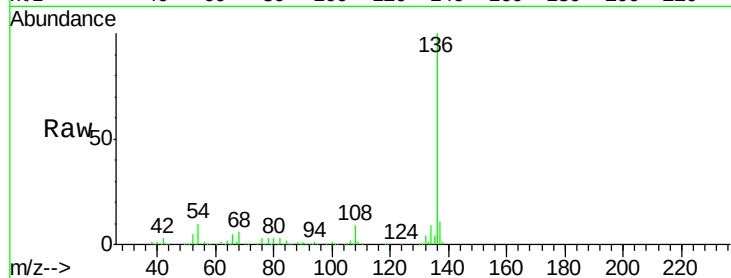
Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136	Resp:	499451
Ion	Ratio	Lower Upper
136	100	
137	10.6	8.5 12.7
54	10.1	4.9 7.3#
68	5.7	4.1 6.1

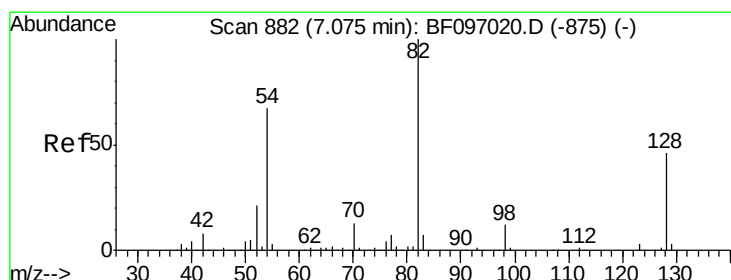
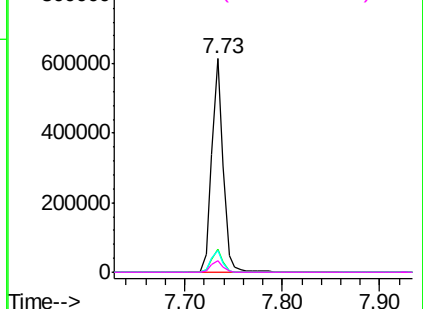
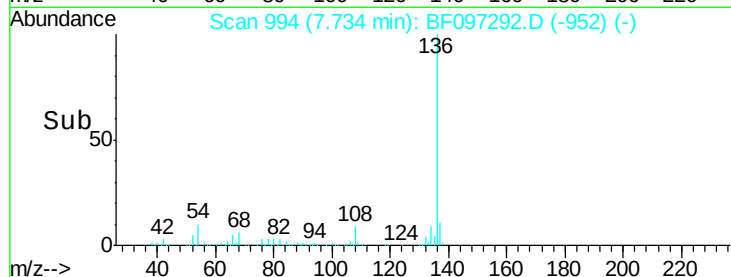


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 39.26 ng

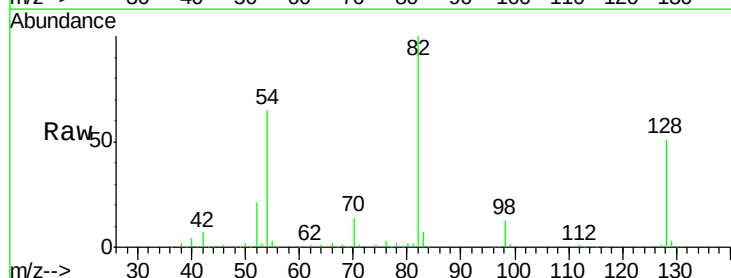
RT: 7.02 min Scan# 873

Delta R.T. -0.05 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

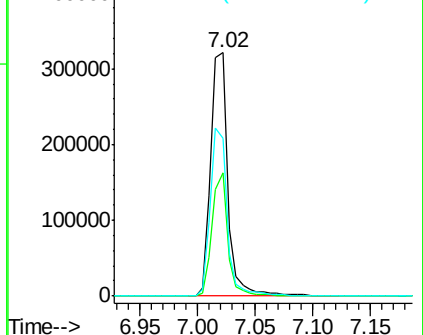
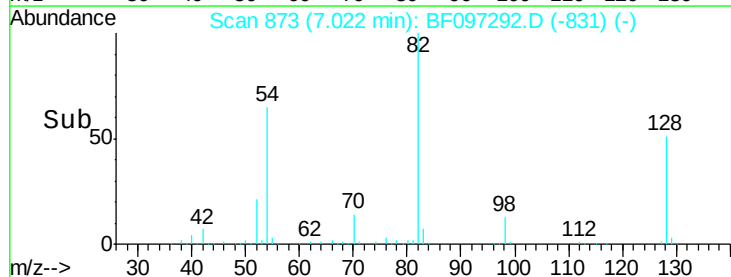
Tgt Ion: 82	Resp:	334245
Ion	Ratio	Lower Upper
82	100	
128	50.7	34.0 51.0
54	65.0	42.2 63.2#

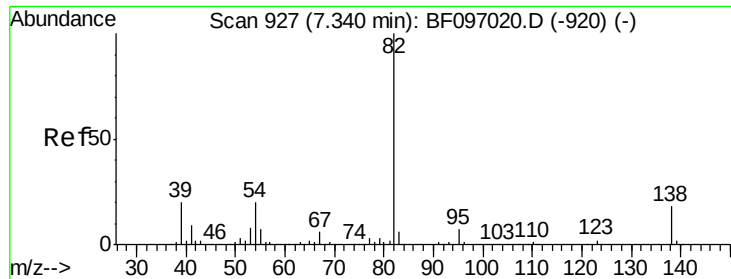


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 19.46 ng

RT: 7.02 min Scan# 873

Delta R.T. -0.32 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampled :

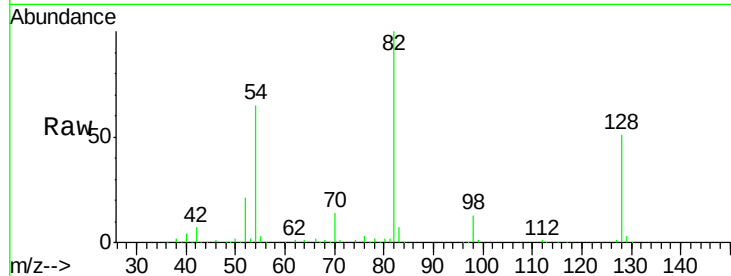
Tot Ion: 82 Resp: 324479

Ion Ratio Lower Upper

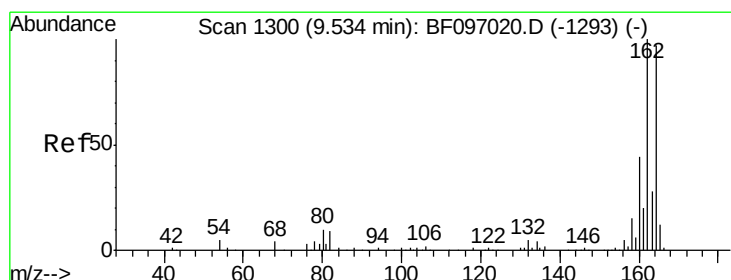
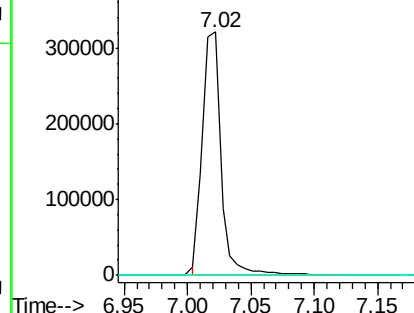
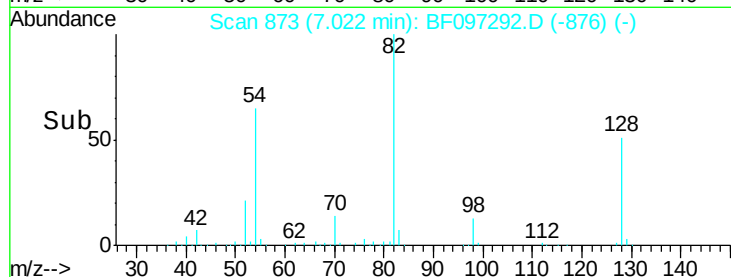
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.47 min Scan# 1290

Delta R.T. -0.06 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

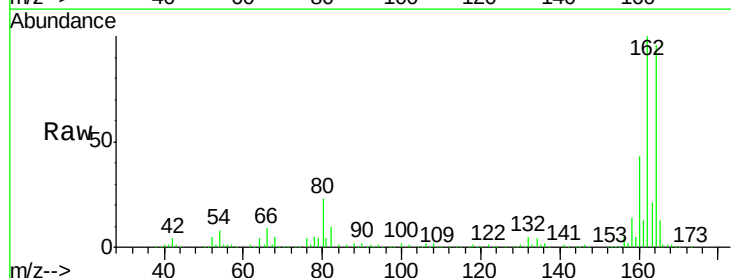
Tgt Ion:164 Resp: 191742

Ion Ratio Lower Upper

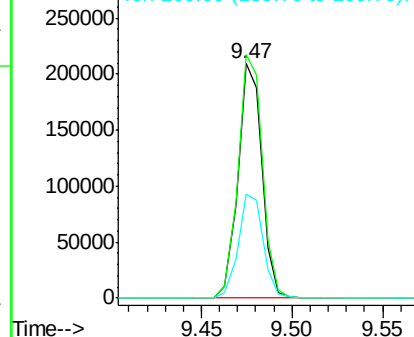
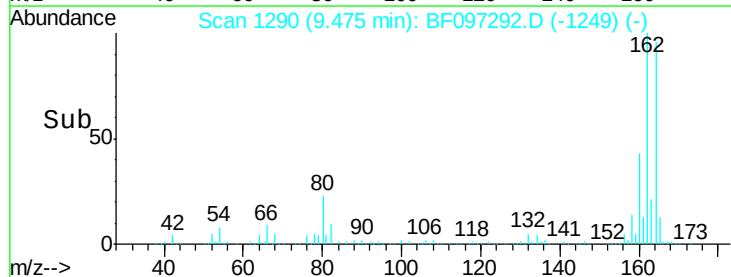
164 100

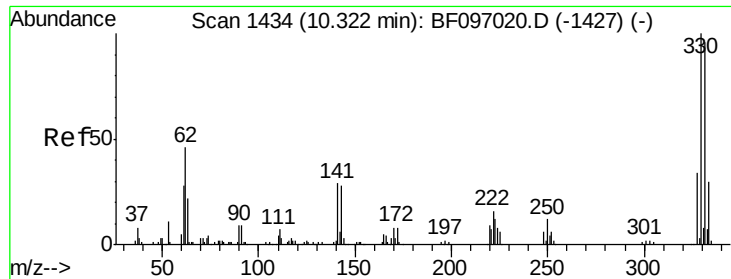
162 103.9 82.6 123.8

160 44.3 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

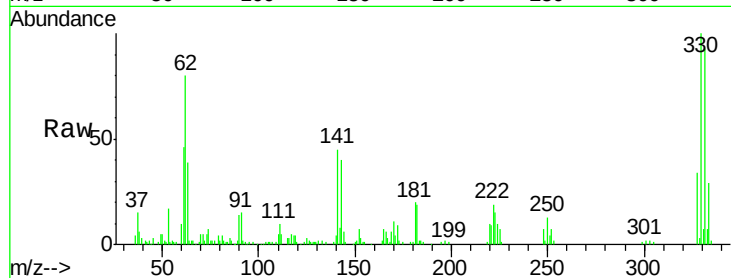




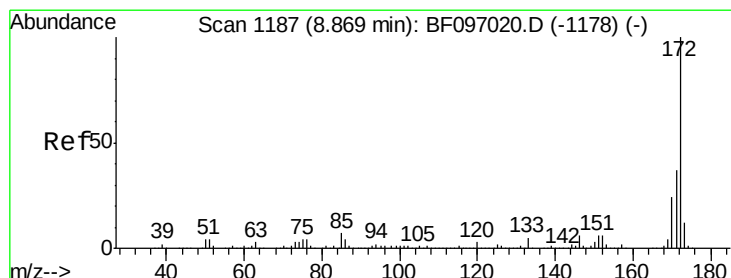
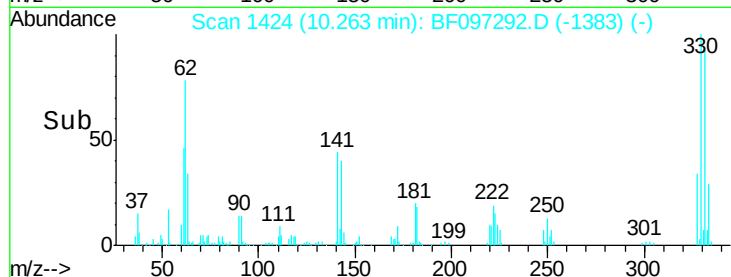
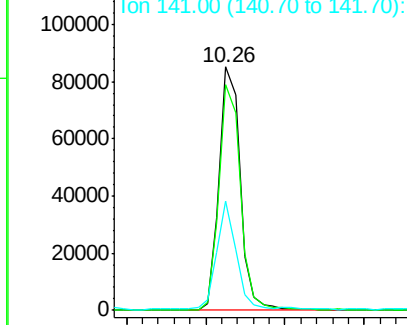
#41
 2,4,6-Tribromophenol
 Concen: 52.51 ng
 RT: 10.26 min Scan# 1424
 Delta R.T. -0.06 min
 Lab File: BF097292.D
 Acq: 2 Aug 2017 23:57

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.8	76.6	115.0
141	39.6	31.4	47.2

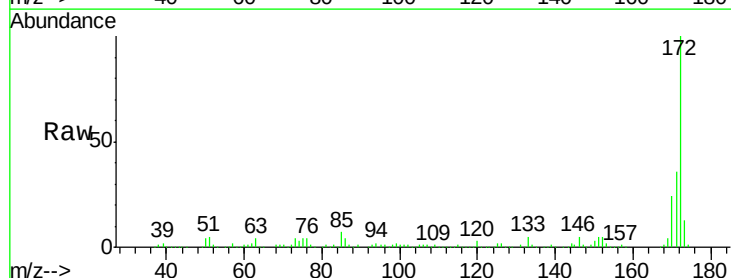


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

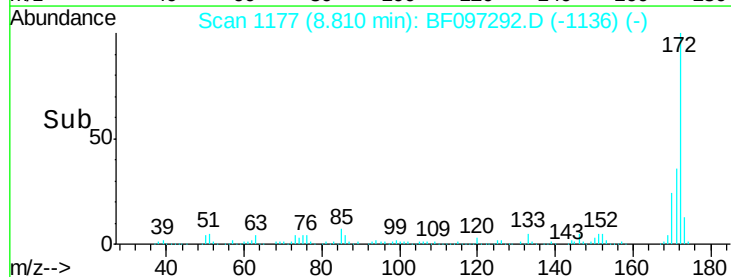
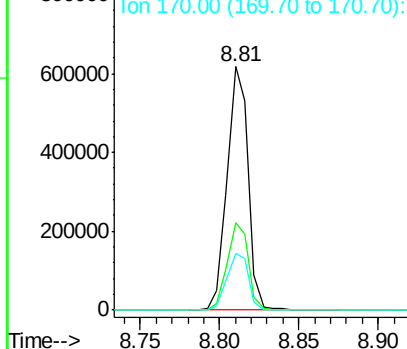


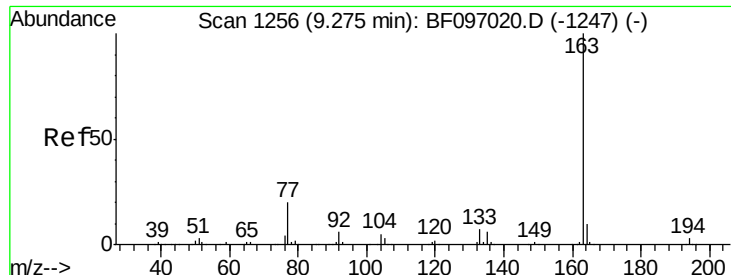
#44
 2-Fluorobiphenyl
 Concen: 50.06 ng
 RT: 8.81 min Scan# 1177
 Delta R.T. -0.06 min
 Lab File: BF097292.D
 Acq: 2 Aug 2017 23:57

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	23.5	19.8	29.8



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

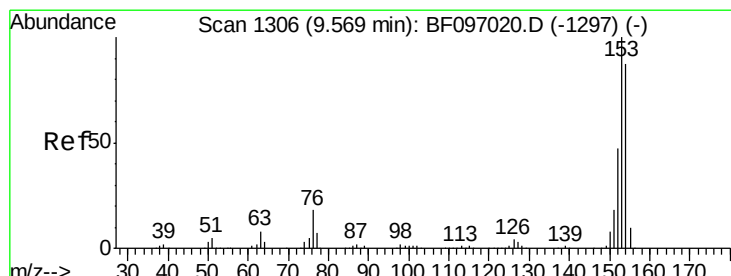
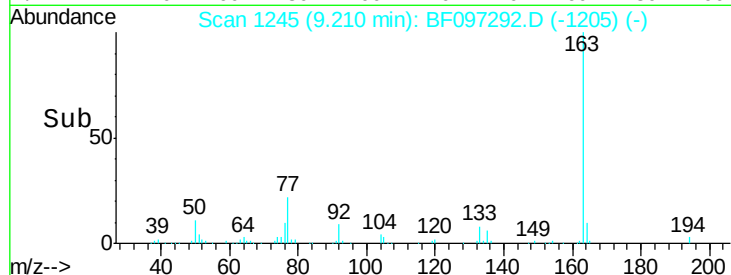
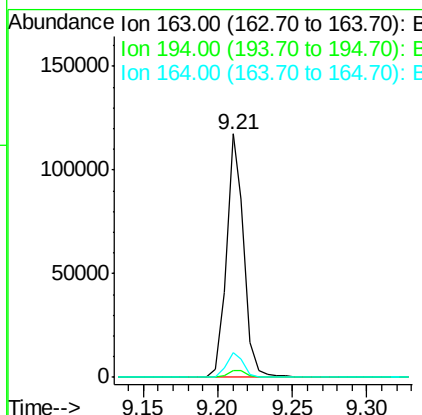
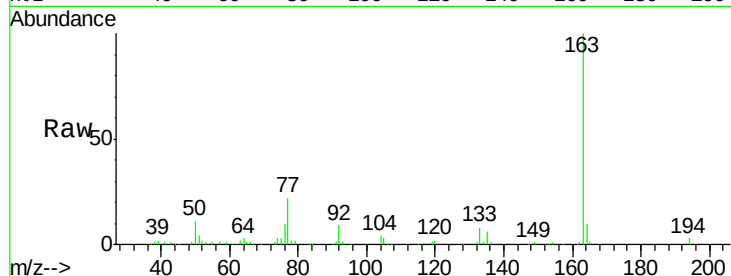




#49
Dimethylphthalate
Concen: 6.61 ng
RT: 9.21 min Scan# 1245
Delta R.T. -0.06 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

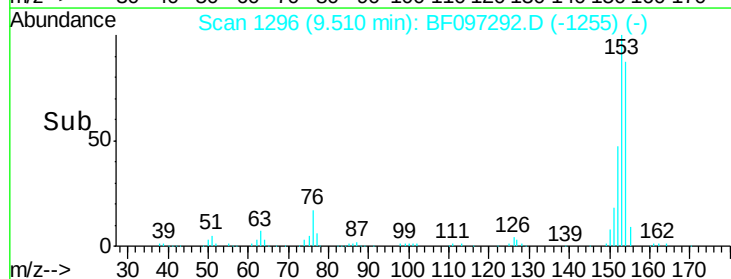
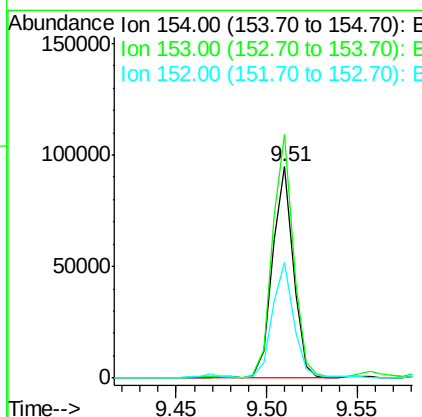
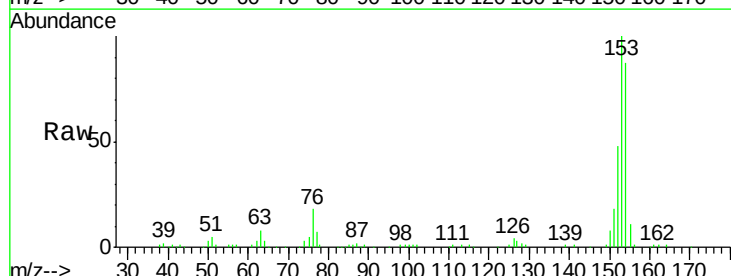
Instrument :
BNA_F
ClientSampleId :

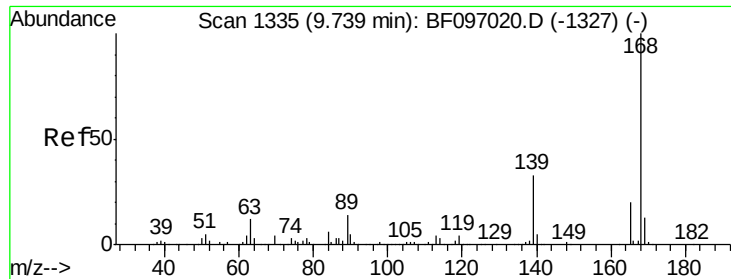
Tot Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.6	4.0
164	10.1	8.4	12.6



#51
Acenaphthene
Concen: 7.03 ng
RT: 9.51 min Scan# 1296
Delta R.T. -0.06 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.4	90.5	135.7
152	55.1	43.6	65.4

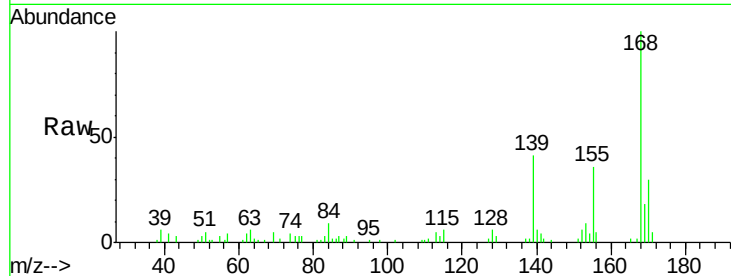




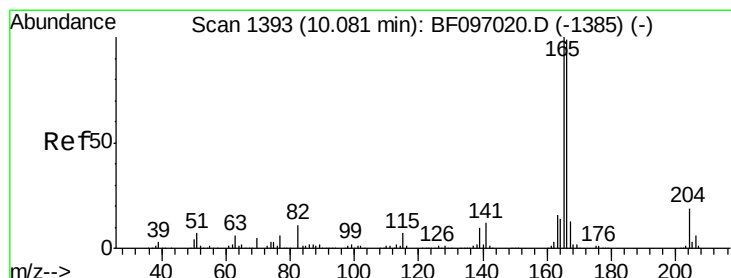
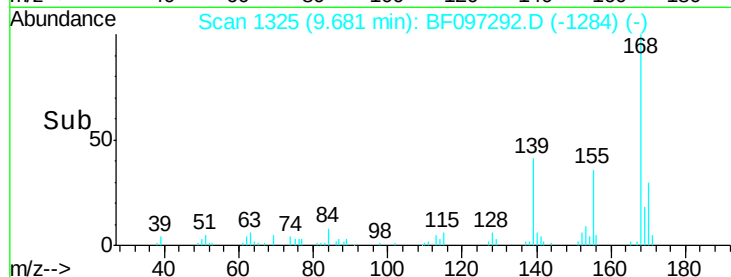
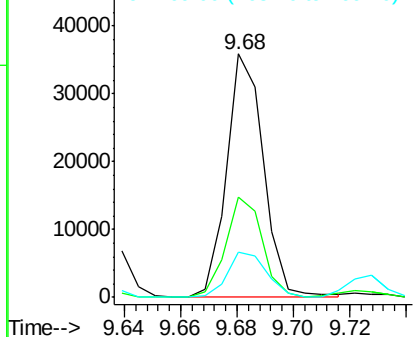
#54
Dibenzenofuran
Concen: 2.25 ng
RT: 9.68 min Scan# 1325
Delta R.T. -0.06 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.9	30.6	45.8
169	18.4	10.8	16.2

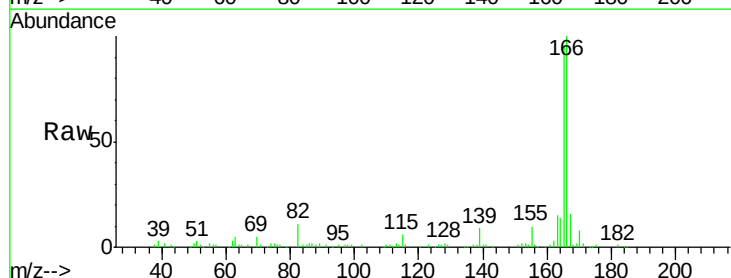


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

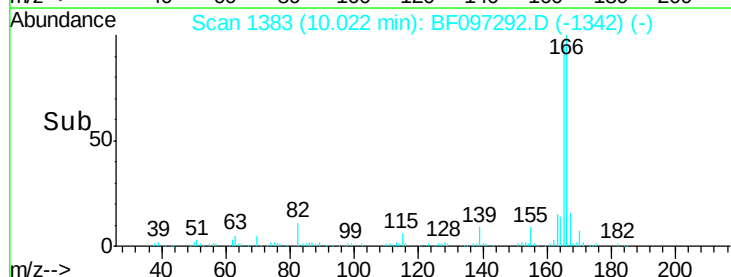
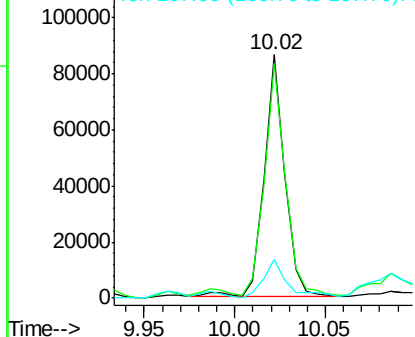


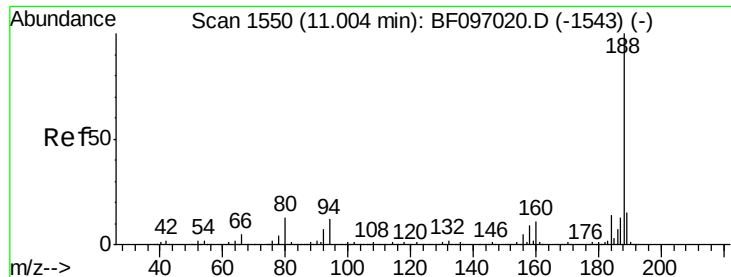
#57
Fluorene
Concen: 6.34 ng
RT: 10.02 min Scan# 1383
Delta R.T. -0.06 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.2	78.8	118.2
167	16.2	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: 20.00 ng

RT: 10.95 min Scan# 1541

Delta R.T. -0.05 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampleId :

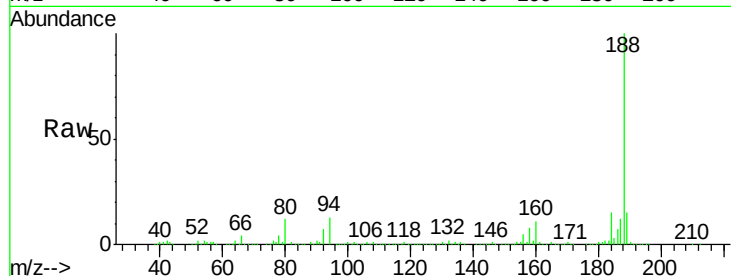
Tot Ion:188 Resp: 276670

Ion Ratio Lower Upper

188 100

94 12.8 9.4 14.2

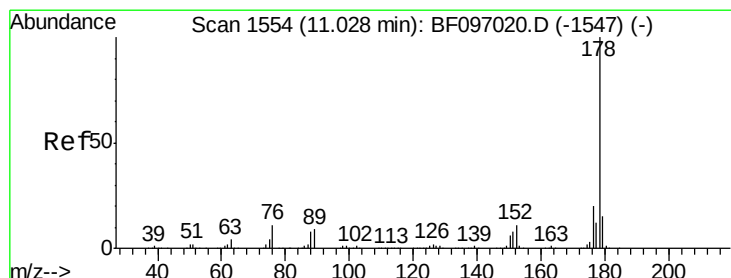
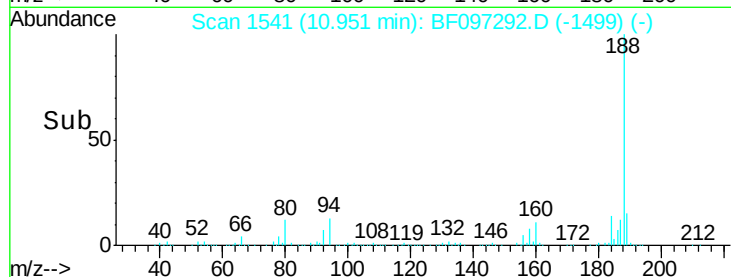
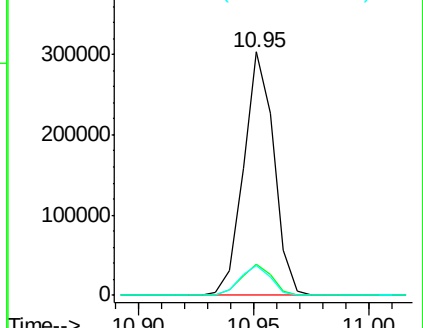
80 12.4 10.2 15.2



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



#70

Phenanthrene

Concen: 55.15 ng

RT: 10.98 min Scan# 1546

Delta R.T. -0.05 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

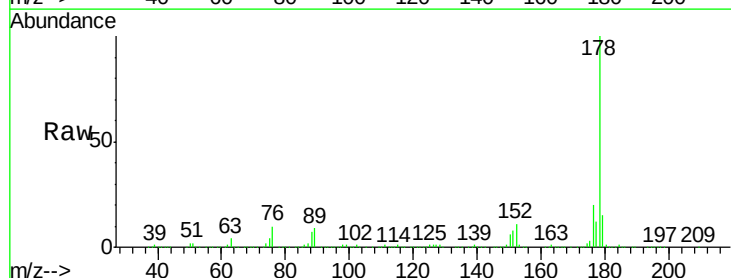
Tgt Ion:178 Resp: 817616

Ion Ratio Lower Upper

178 100

176 20.1 16.2 24.4

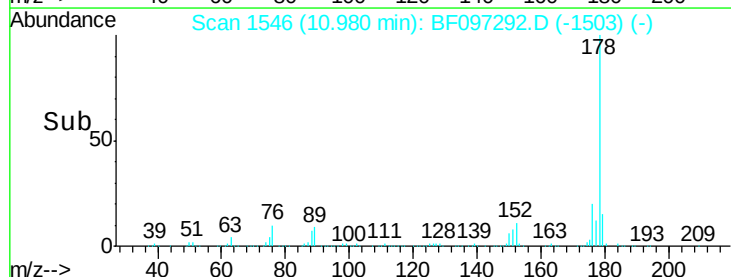
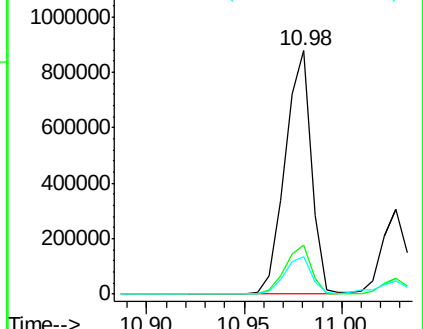
179 15.5 12.6 19.0

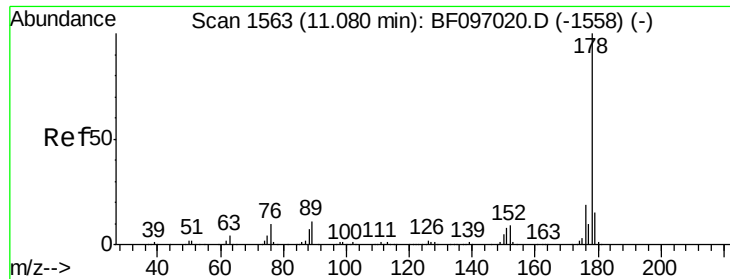


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

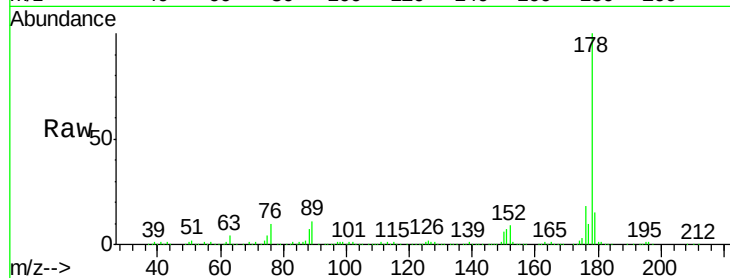




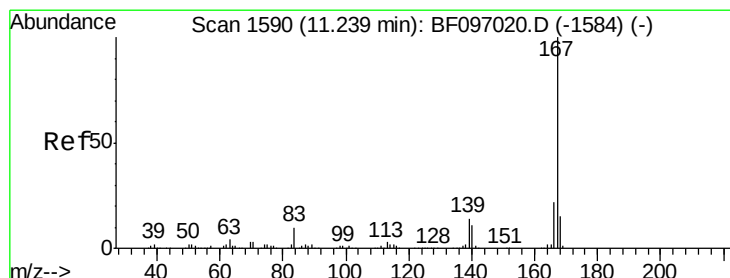
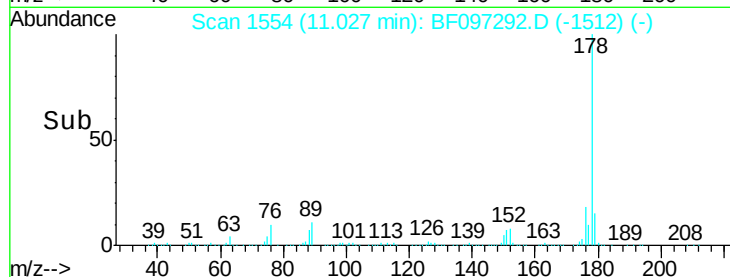
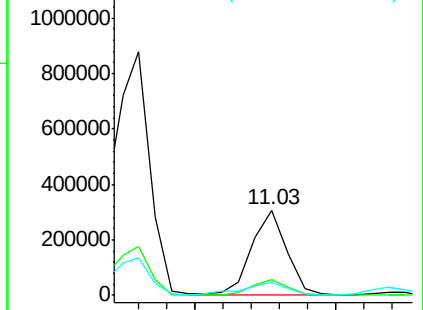
#71
 Anthracene
 Concen: 17.17 ng
 RT: 11.03 min Scan# 1554
 Delta R.T. -0.05 min
 Lab File: BF097292.D
 Acq: 2 Aug 2017 23:57

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 260657
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.8 23.8
 179 15.3 12.7 19.1

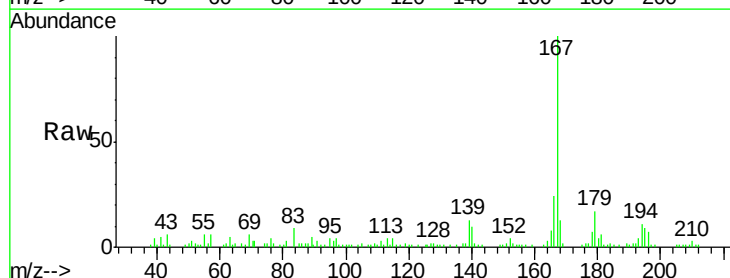


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

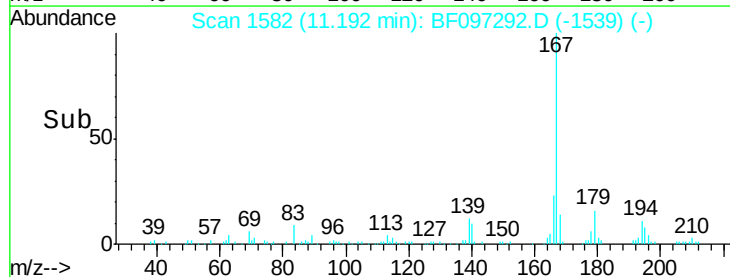
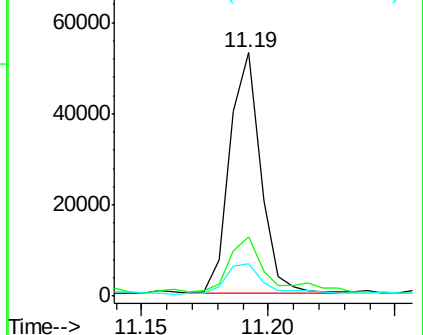


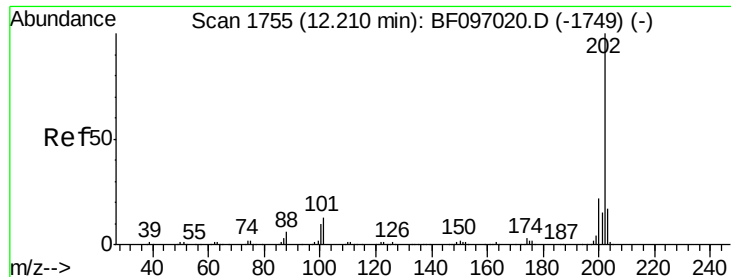
#72
 Carbazole
 Concen: 2.96 ng
 RT: 11.19 min Scan# 1582
 Delta R.T. -0.05 min
 Lab File: BF097292.D
 Acq: 2 Aug 2017 23:57

Tgt Ion:167 Resp: 44140
 Ion Ratio Lower Upper
 167 100
 166 24.4 18.1 27.1
 139 13.2 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 82.07 ng

RT: 12.17 min Scan# 1748

Delta R.T. -0.04 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampled :

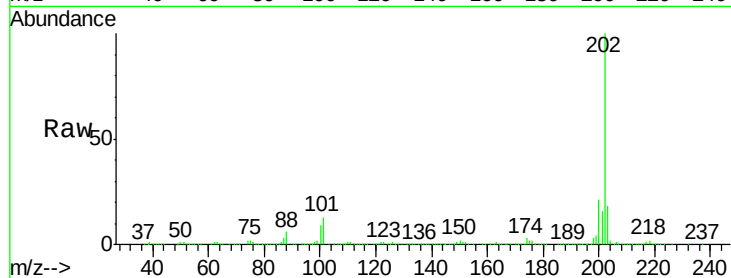
Tot Ion:202 Resp: 1191871

Ion Ratio Lower Upper

202 100

101 12.9 0.0 33.2

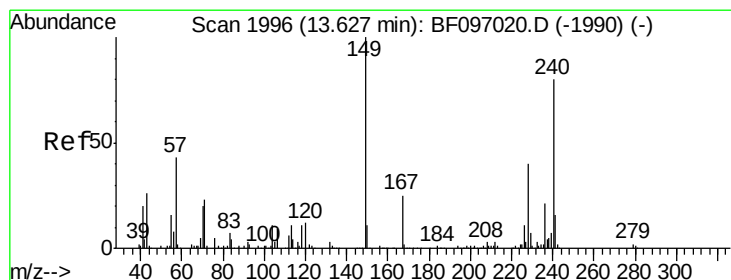
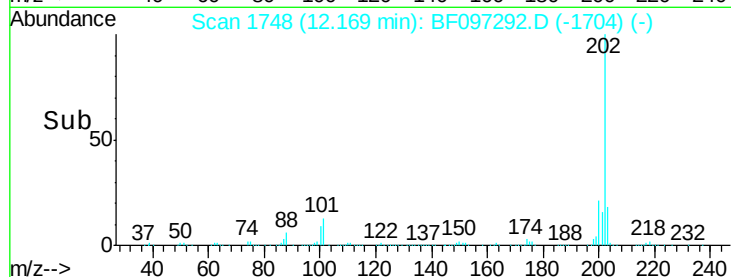
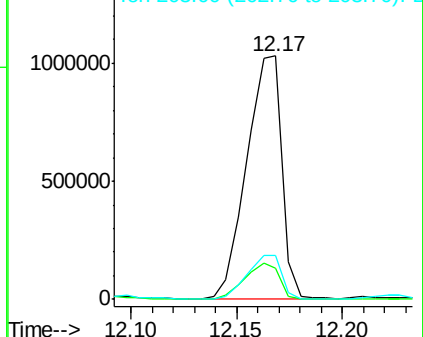
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.58 min Scan# 1988

Delta R.T. -0.05 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

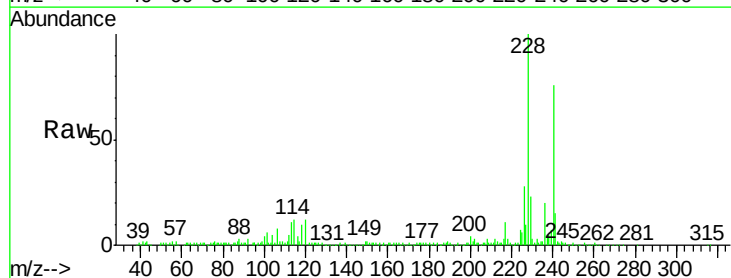
Tgt Ion:240 Resp: 189961

Ion Ratio Lower Upper

240 100

120 16.2 5.8 8.8#

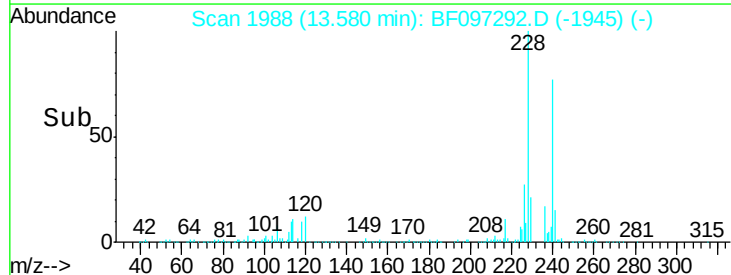
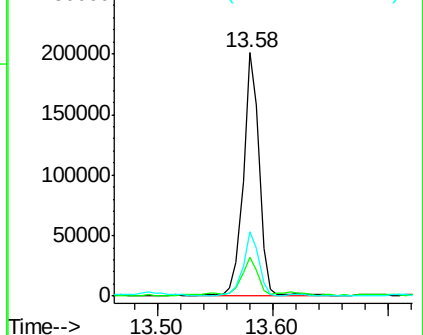
236 26.3 20.5 30.7

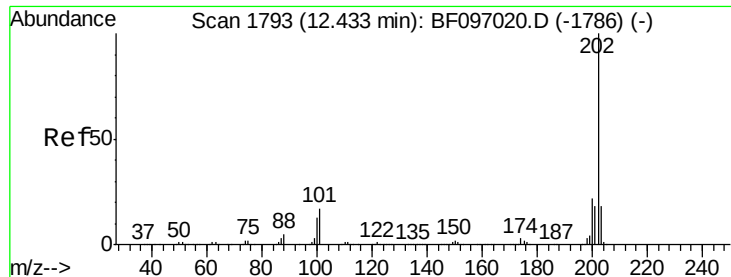


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

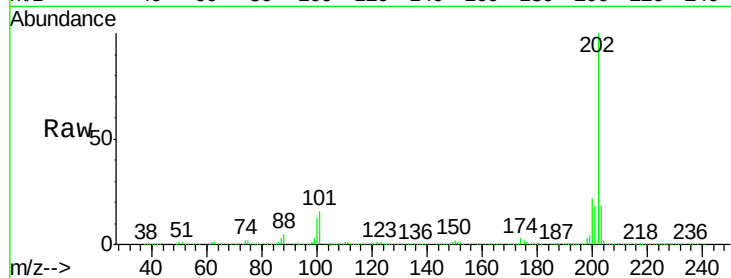




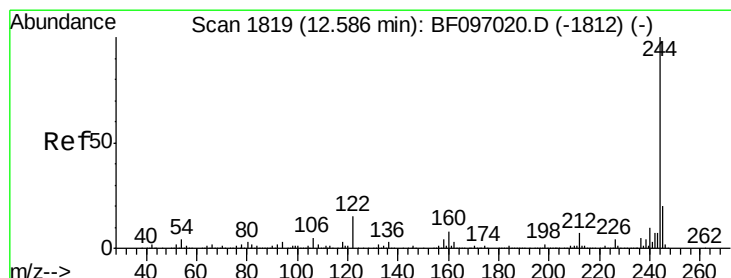
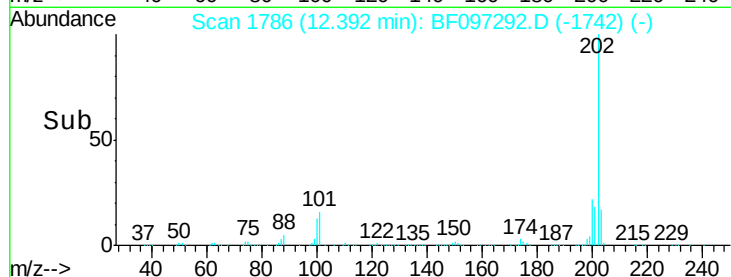
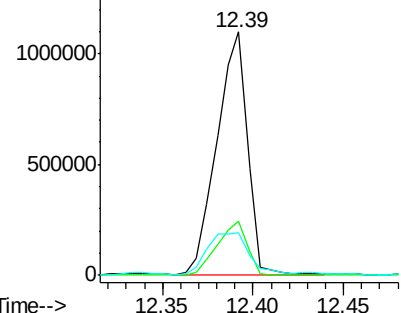
#77
Pvrene
Concen: 82.18 ng
RT: 12.39 min Scan# 1786
Delta R.T. -0.04 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Instrument :
BNA_F
ClientSampled :

Tot Ion:202 Resp: 1278064
Ion Ratio Lower Upper
202 100
200 22.1 17.6 26.4
203 17.6 14.4 21.6

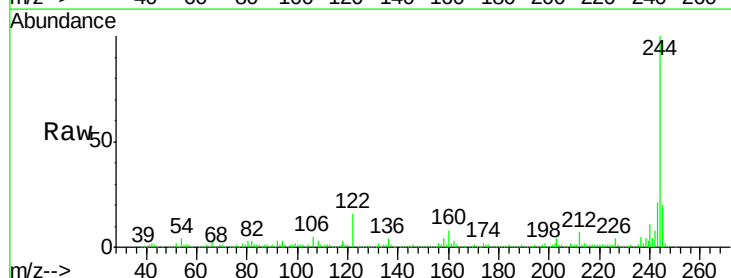


Abundance Ion 202.00 (201.70 to 202.70): E
1500000 Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

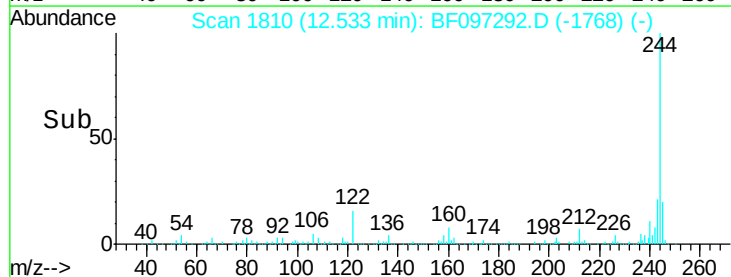
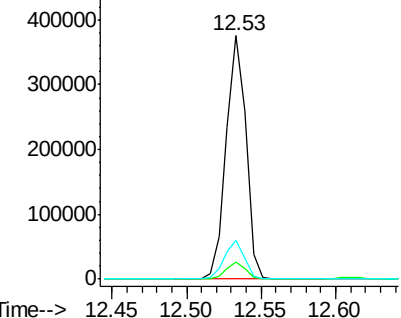


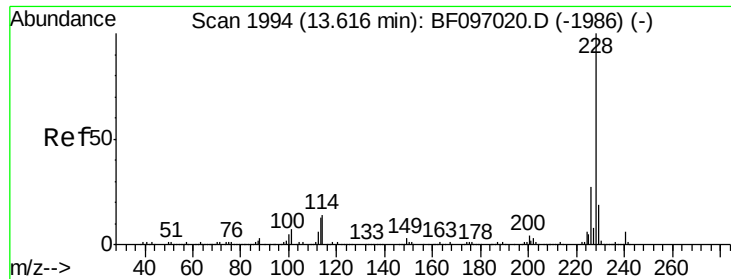
#78
Terphenyl-d14
Concen: 37.49 ng
RT: 12.53 min Scan# 1810
Delta R.T. -0.05 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Tgt Ion:244 Resp: 349310
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 16.0 10.3 15.5#



Abundance Ion 244.00 (243.70 to 244.70): E
500000 Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 53.68 ng

RT: 13.57 min Scan# 1987

Delta R.T. -0.04 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampleId :

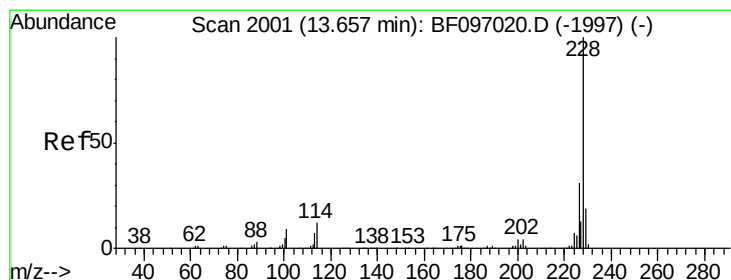
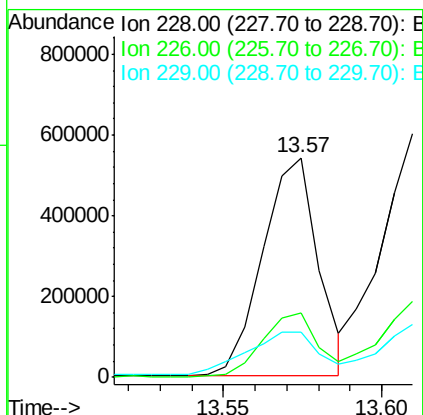
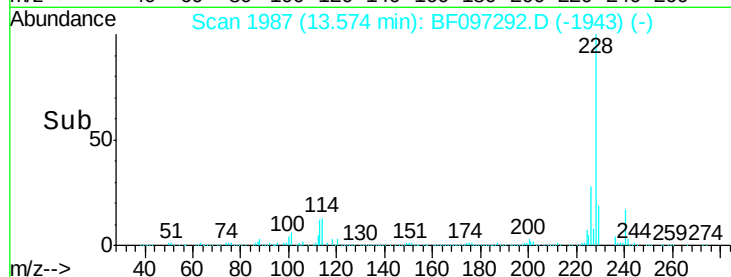
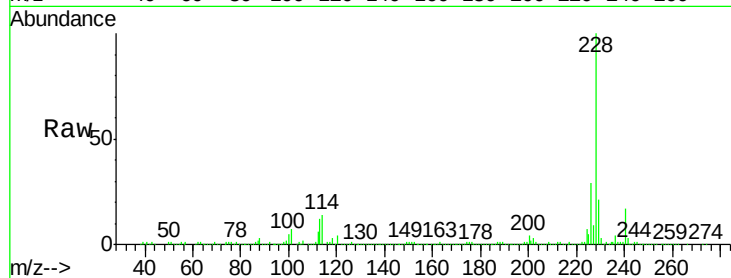
Tot Ion:228 Resp: 659814

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

229 20.6 16.3 24.5



#82

Chrysene

Concen: 51.65 ng

RT: 13.61 min Scan# 1993

Delta R.T. -0.05 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

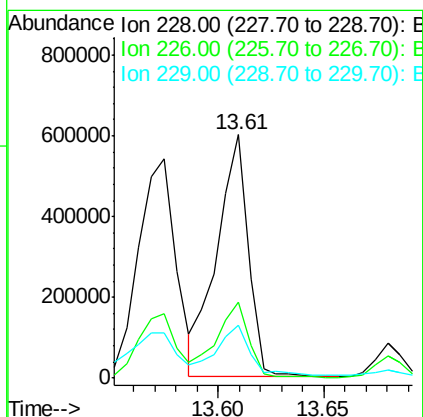
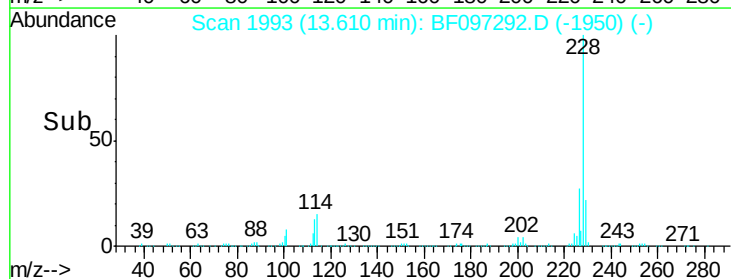
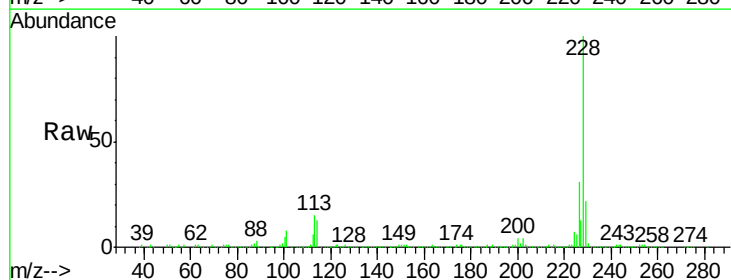
Tgt Ion:228 Resp: 619903

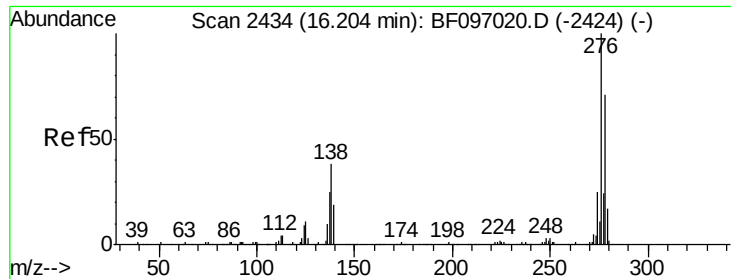
Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

229 22.0 15.8 23.6

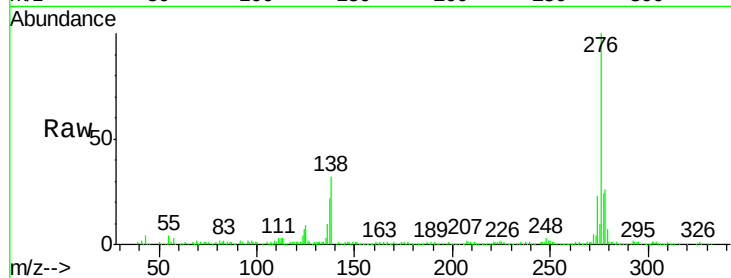




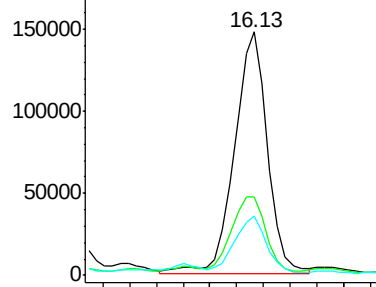
#85
Indeno(1,2,3-cd)pyrene
Concen: 24.59 ng
RT: 16.13 min Scan# 2422
Delta R.T. -0.07 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

Instrument :
BNA_F
ClientSampleId :

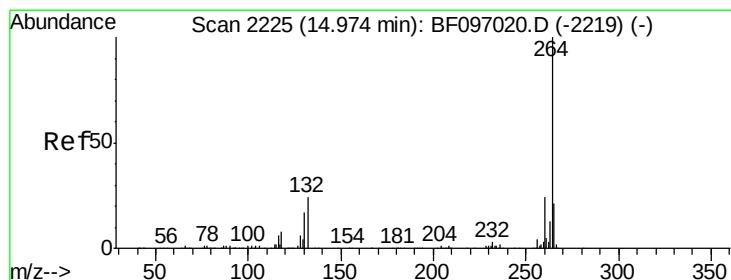
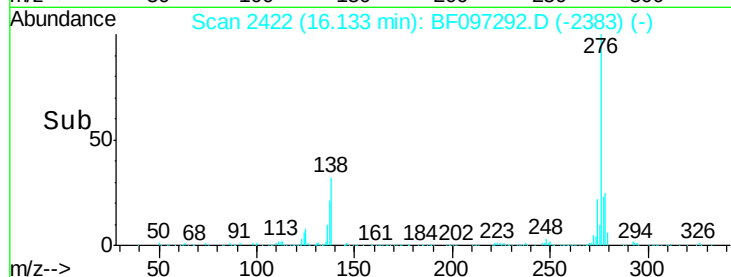
Tot Ion	Ratio	Lower	Upper
276	100		
138	33.2	27.8	41.6
277	23.2	20.2	30.4



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

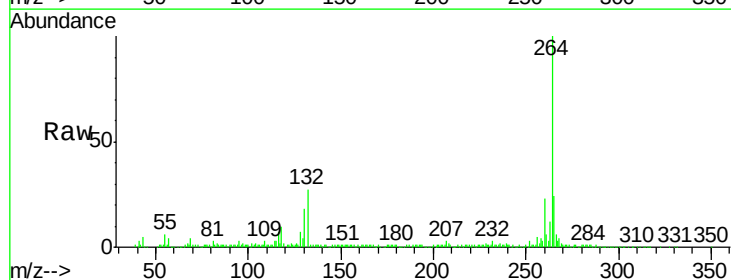


Time-->

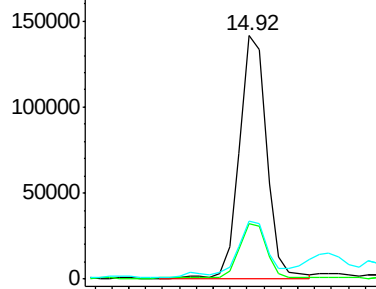


#86
Perylene-d12
Concen: 20.00 ng
RT: 14.92 min Scan# 2216
Delta R.T. -0.05 min
Lab File: BF097292.D
Acq: 2 Aug 2017 23:57

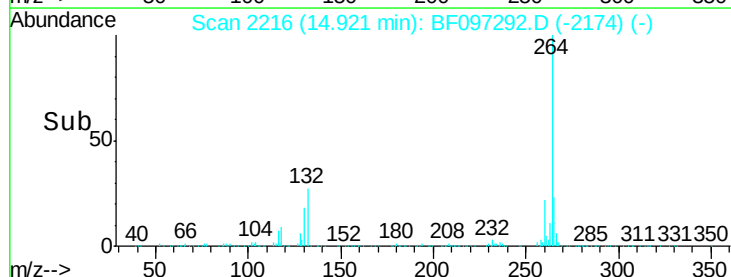
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.5	29.3
265	23.7	17.2	25.8

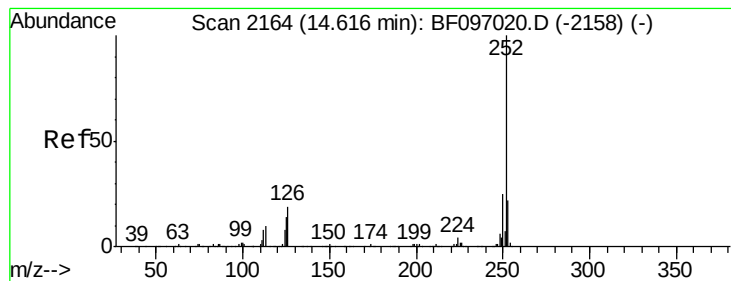


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



Time-->





#87

Benzo(b)fluoranthene

Concen: 86.17 ng

RT: 14.57 min Scan# 2157

Delta R.T. -0.04 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampleId :

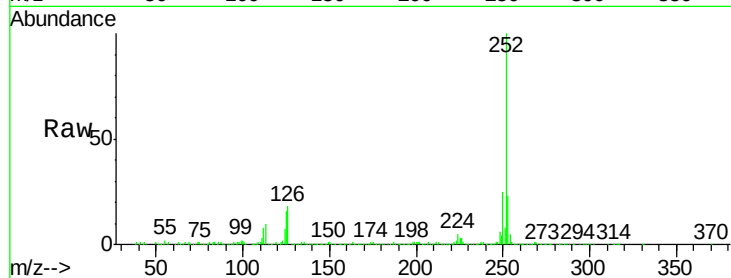
Tot Ion:252 Resp: 827000

Ion Ratio Lower Upper

252 100

253 22.9 18.1 27.1

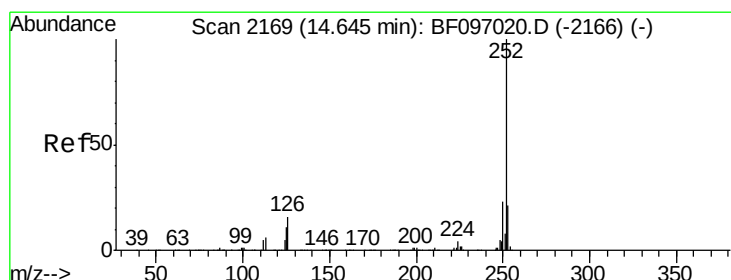
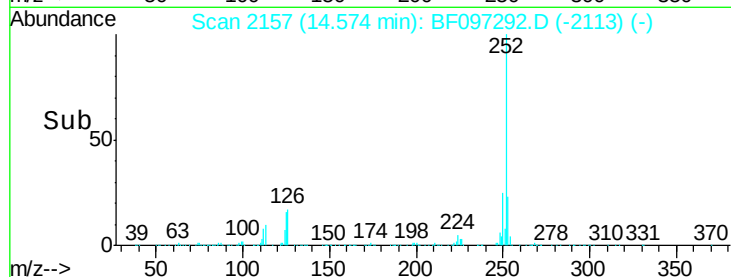
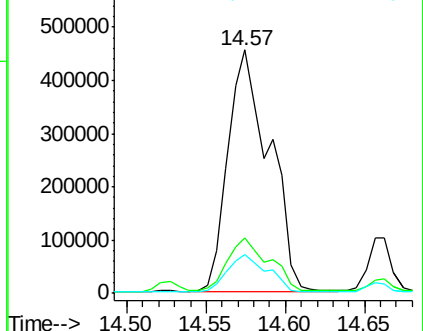
125 16.0 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 90.43 ng

RT: 14.57 min Scan# 2157

Delta R.T. -0.07 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

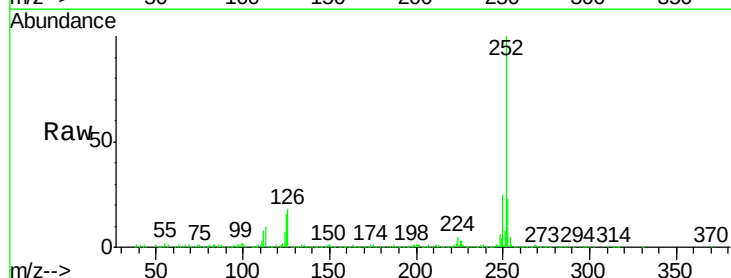
Tgt Ion:252 Resp: 827000

Ion Ratio Lower Upper

252 100

253 22.9 18.4 27.6

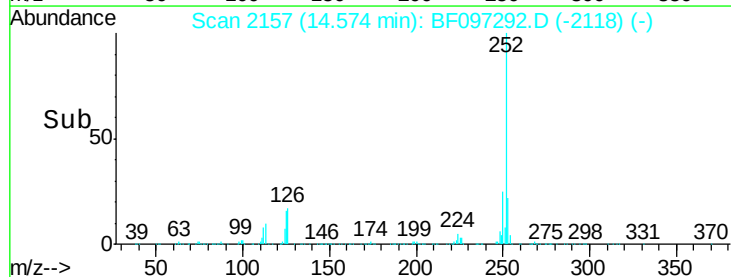
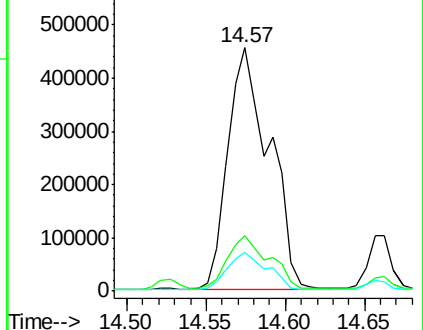
125 16.0 13.1 19.7

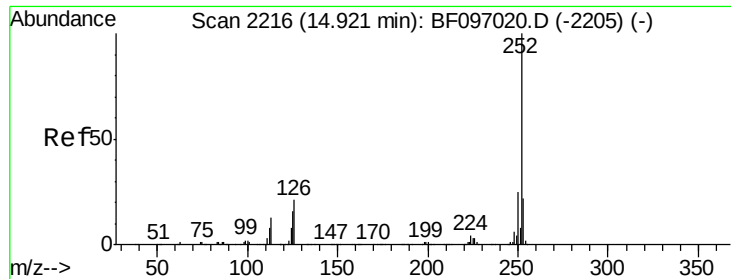


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 52.18 ng

RT: 14.87 min Scan# 2208

Delta R.T. -0.05 min

Lab File: BF097292.D

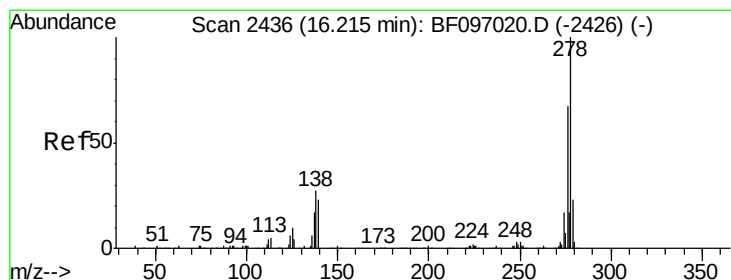
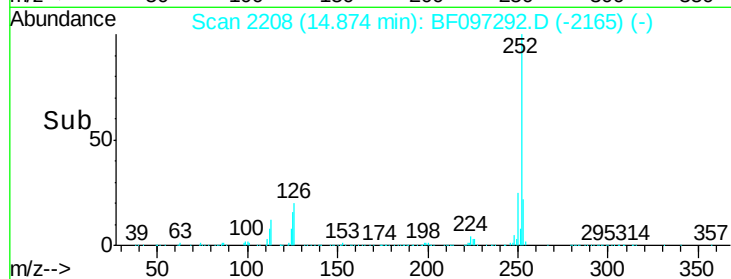
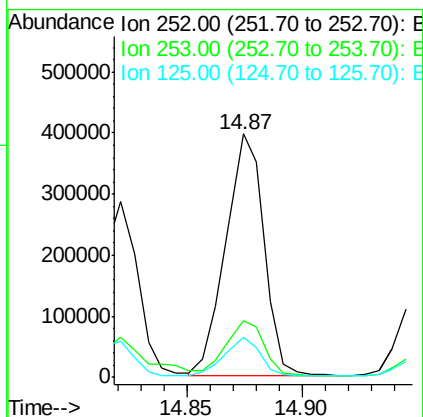
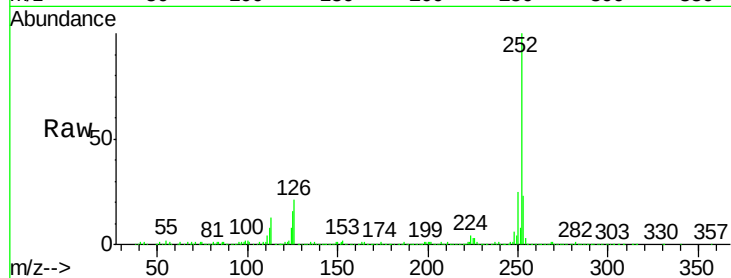
Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	458358
Ion Ratio	Lower	Upper
252	100	
253	23.4	17.5 26.3
125	16.5	11.0 16.4#



#90

Dibenzo(a,h)anthracene

Concen: 8.05 ng

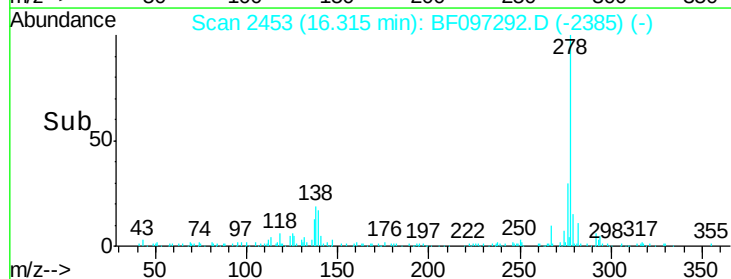
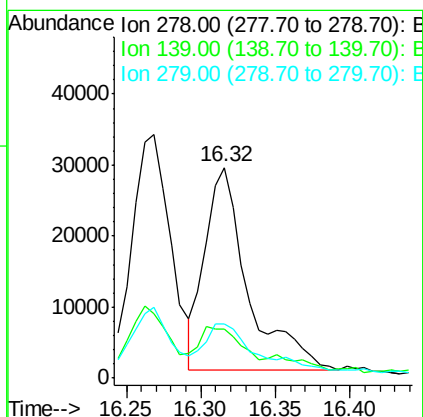
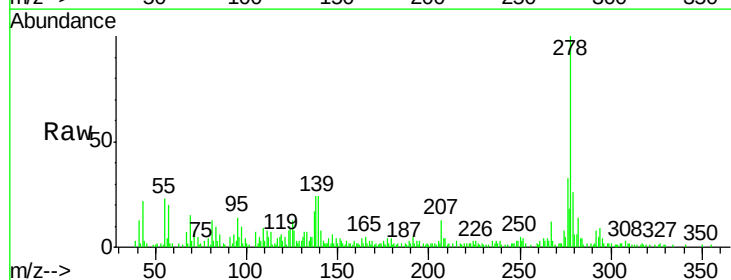
RT: 16.32 min Scan# 2453

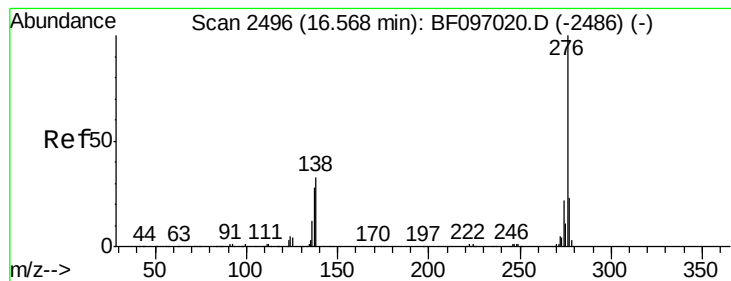
Delta R.T. 0.10 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Tgt Ion:278	Resp:	57998
Ion Ratio	Lower	Upper
278	100	
139	23.6	16.6 24.8
279	26.0	19.3 28.9





#91

Benzo(a,h,i)perylene

Concen: 31.50 ng

RT: 16.49 min Scan# 2483

Delta R.T. -0.08 min

Lab File: BF097292.D

Acq: 2 Aug 2017 23:57

Instrument :

BNA_F

ClientSampleId :

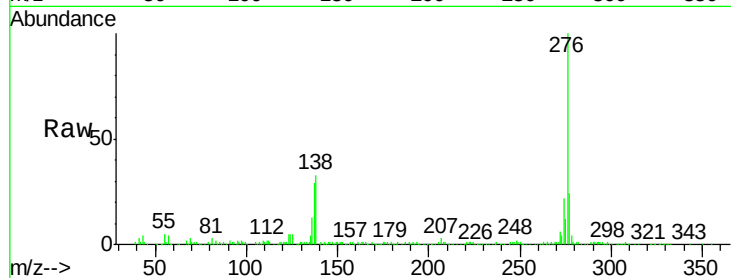
Tot Ion: 276 Resp: 237952

Ion Ratio Lower Upper

276 100

277 23.7 18.6 28.0

138 32.9 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

