

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\
 Data File : BF094501.D
 Acq On : 18 Apr 2017 22:05
 Operator : SJ/MA
 Sample : I2708-15
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 19 03:02:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	133579	20.00	ng	0.00
21) Naphthalene-d8	7.27	136	505638	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	217859	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	373039	20.00	ng	0.00
75) Chrysene-d12	14.47	240	287751	20.00	ng	0.00
86) Perylene-d12	16.09	264	278681	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.33	112	943116	117.14	ng	0.02
7) Phenol-d6	5.40	99	1269166	133.71	ng	0.00
23) Nitrobenzene-d5	6.42	82	766057	93.55	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	200434	117.62	ng	0.00
44) 2-Fluorobiphenyl	8.59	172	1193120	80.58	ng	0.00
78) Terphenyl-d14	13.20	244	819853	76.16	ng	0.00

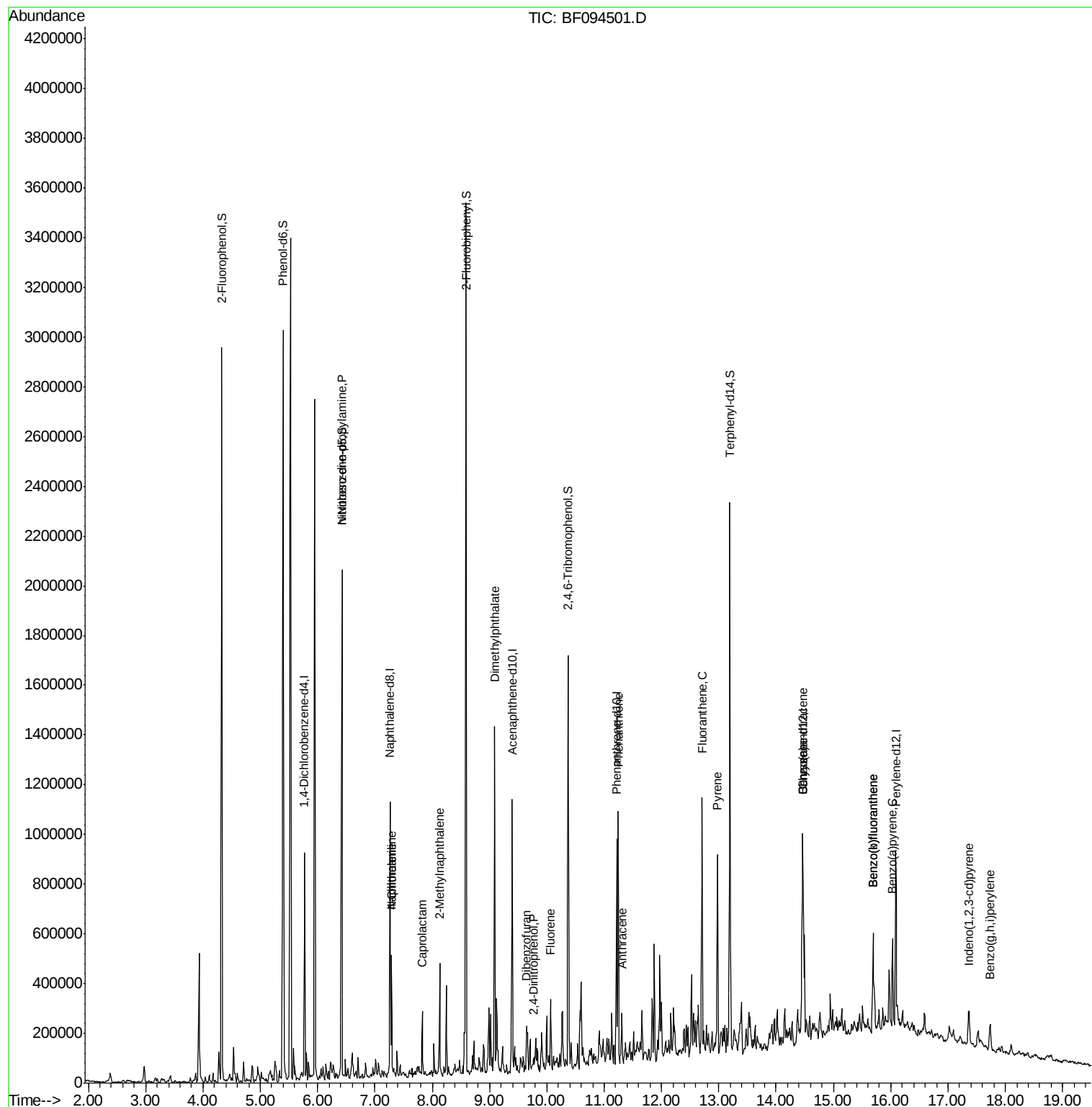
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	6.42	70	99026	15.75	ng	# 76
31) Naphthalene	7.29	128	168167	6.92	ng	99
33) 4-Chloroaniline	7.29	127	22774	2.25	ng	# 32
35) Caprolactam	7.82	113	5411	2.46	ng	# 75
37) 2-Methylnaphthalene	8.13	142	120732	7.26	ng	96
49) Dimethylphthalate	9.09	163	583605	35.95	ng	99
53) 2,4-Dinitrophenol	9.76	184	1036	6.24	ng	# 20
54) Dibenzofuran	9.65	168	56937	2.96	ng	97
57) Fluorene	10.07	166	36929	2.47	ng	# 94
70) Phenanthrene	11.25	178	423095	20.14	ng	98
71) Anthracene	11.31	178	68353	3.15	ng	97
74) Fluoranthene	12.71	202	426970	19.61	ng	100
77) Pvrene	12.98	202	336167	16.72	ng	98
80) Benzo(a)anthracene	14.45	228	158649	9.49	ng	94
82) Chrysene	14.45	228	158649	10.38	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	78158	5.37	ng	98
87) Benzo(b)fluoranthene	15.69	252	265997	15.60	ng	# 97
88) Benzo(k)fluoranthene	15.69	252	265997	16.49	ng	99
89) Benzo(a)pvrene	16.03	252	137246	8.65	ng	99
91) Benzo(a,h,i)perylene	17.74	276	70410	5.25	ng	98

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

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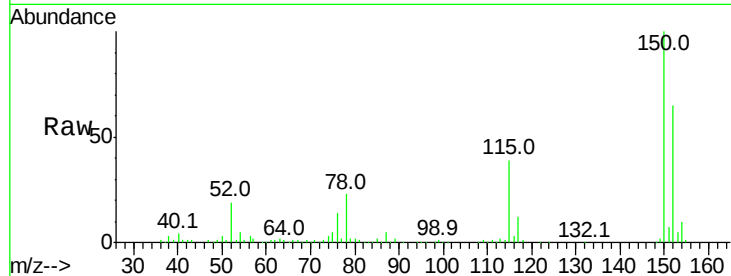


#1

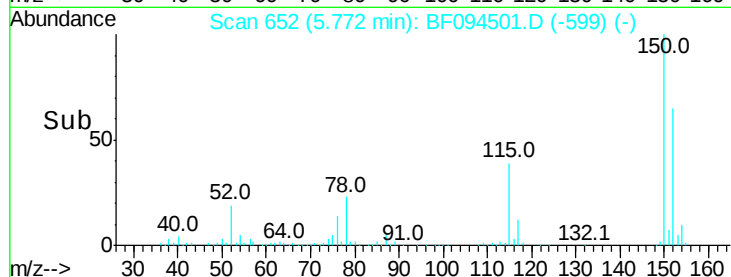
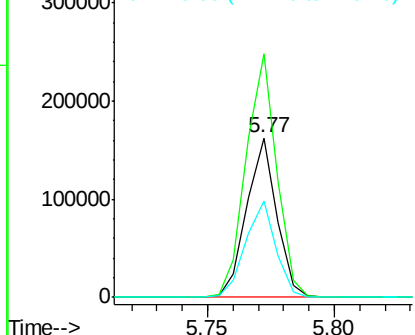
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 652
Delta R.T. 0.01 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 133579
Ion Ratio Lower Upper
152 100
150 153.0 126.2 189.2
115 60.2 52.2 78.2



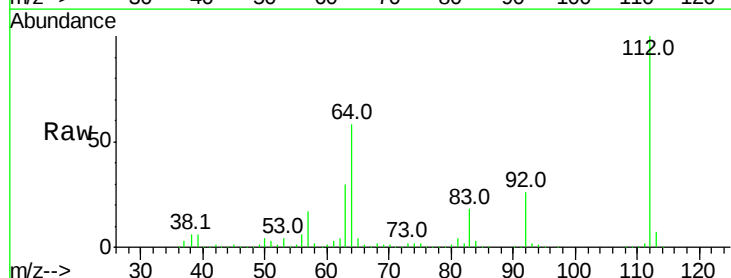
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



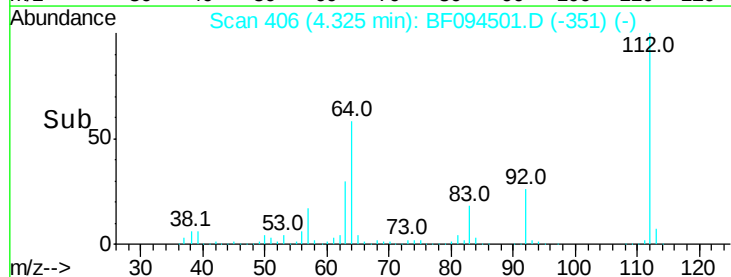
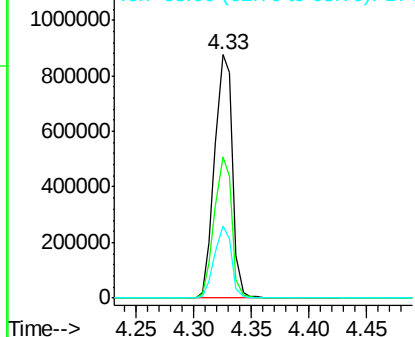
#5

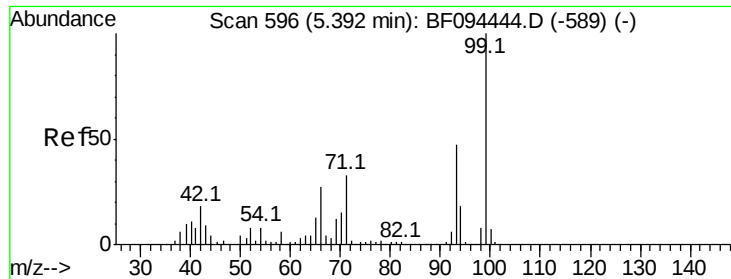
2-Fluorophenol
Concen: 117.14 ng
RT: 4.33 min Scan# 406
Delta R.T. 0.02 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Tgt Ion:112 Resp: 943116
Ion Ratio Lower Upper
112 100
64 58.1 46.0 69.0
63 29.5 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: 133.71 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

Instrument :

BNA_F

ClientSampled :

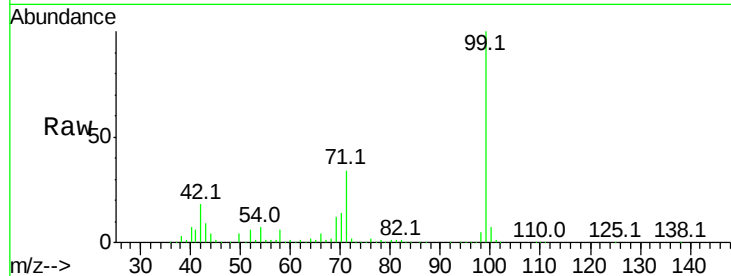
Tot Ion: 99 Resp: 1269166

Ion Ratio Lower Upper

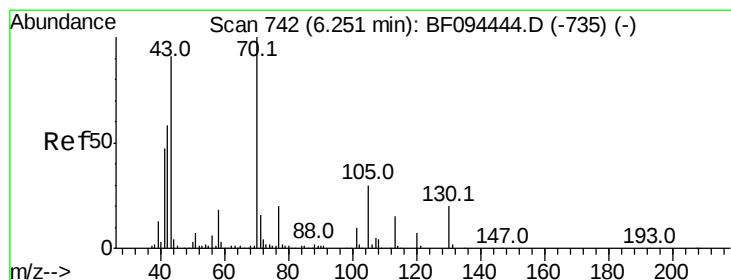
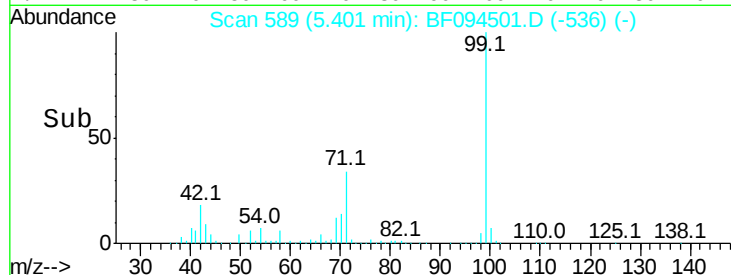
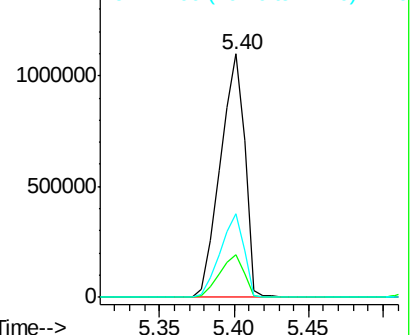
99 100

42 17.8 13.5 20.3

71 34.2 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: 15.75 ng

RT: 6.42 min Scan# 763

Delta R.T. 0.17 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

Tgt Ion: 70 Resp: 99026

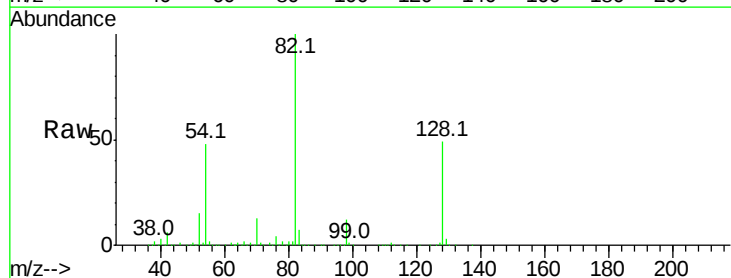
Ion Ratio Lower Upper

70 100

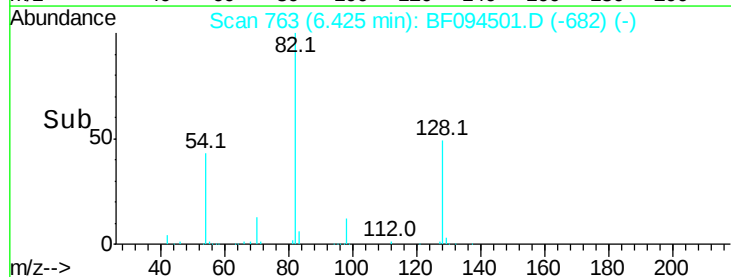
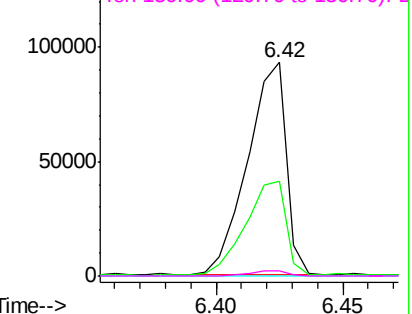
42 44.5 47.2 70.8#

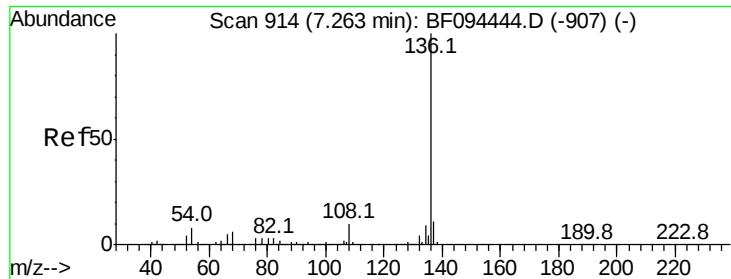
101 0.0 7.2 10.8#

130 2.5 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): E
Ion 130.00 (129.70 to 130.70): E

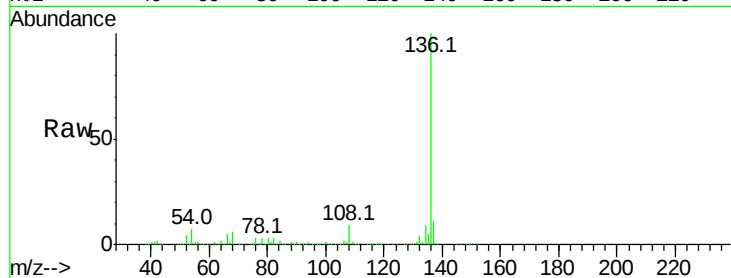




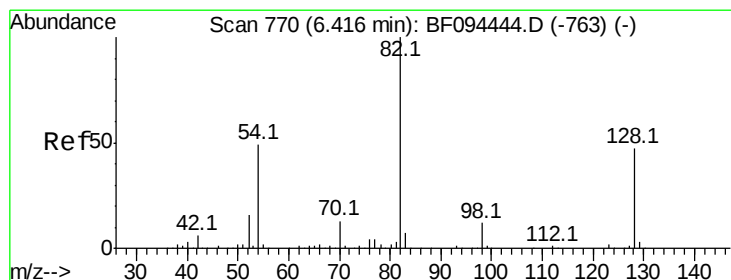
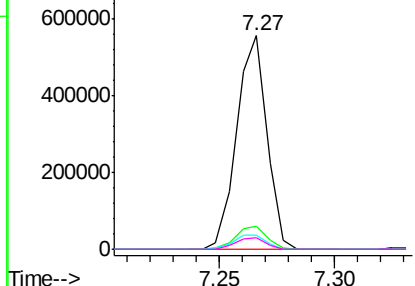
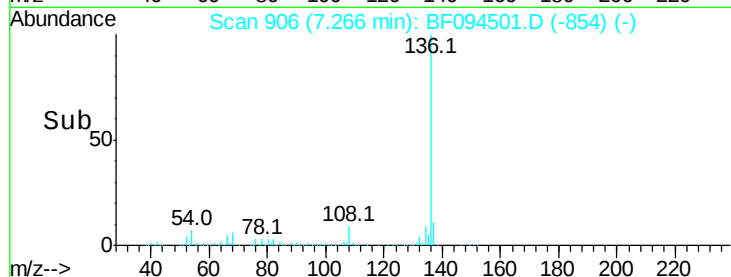
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.27 min Scan# 906
Delta R.T. 0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	505638
Ion Ratio	Lower	Upper
136 100		
137 11.0	8.5	12.7
54 6.9	4.9	7.3
68 5.6	4.1	6.1

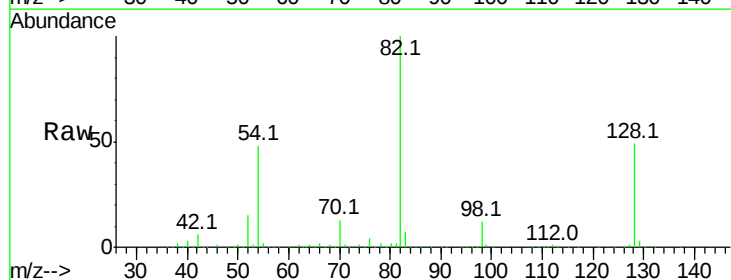


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

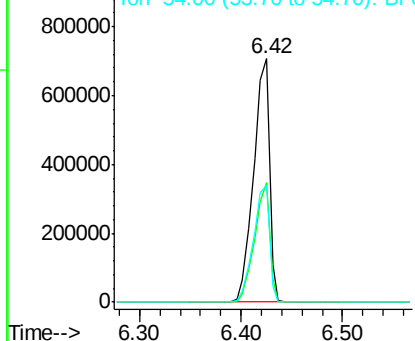
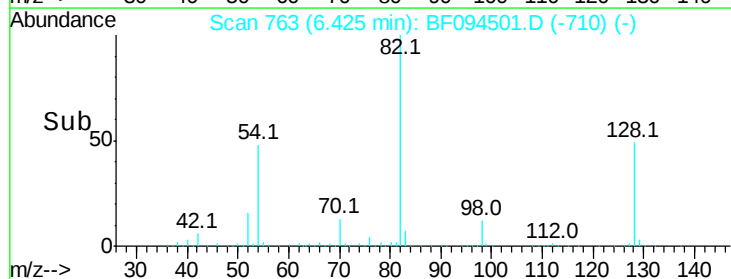


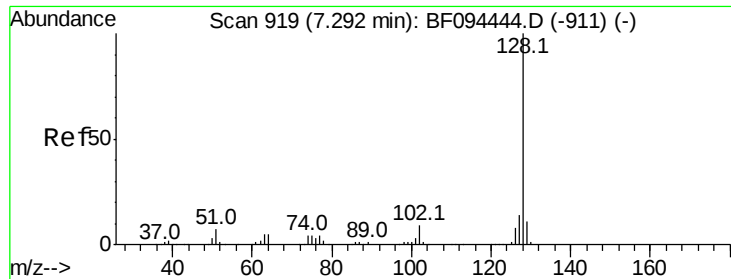
#23
Nitrobenzene-d5
Concen: 93.55 ng
RT: 6.42 min Scan# 763
Delta R.T. 0.01 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Tgt Ion: 82	Resp:	766057
Ion Ratio	Lower	Upper
82 100		
128 49.2	34.0	51.0
54 47.8	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

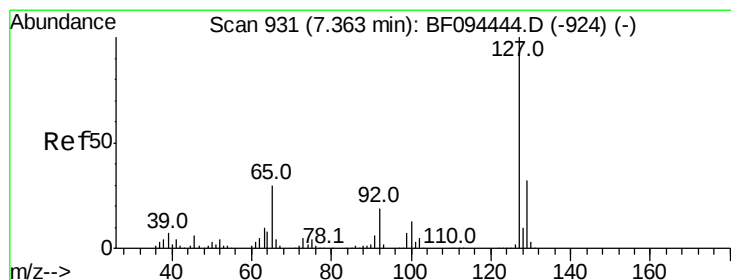
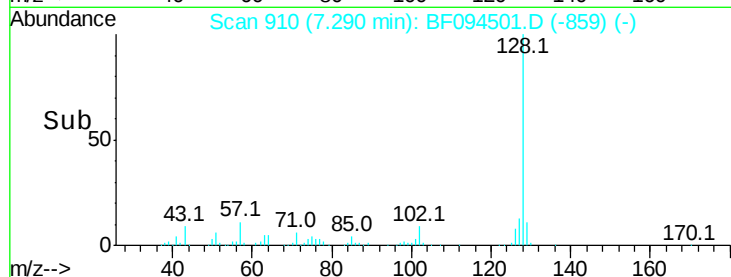
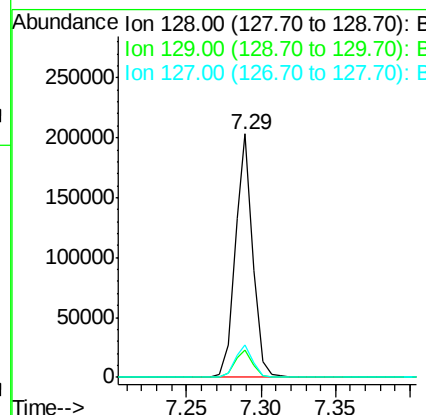
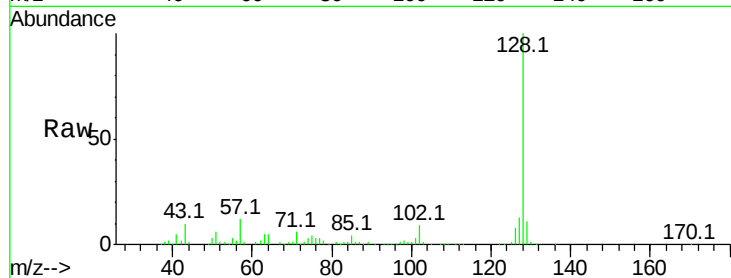




#31
Naphthalene
Concen: 6.92 ng
RT: 7.29 min Scan# 910
Delta R.T. -0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

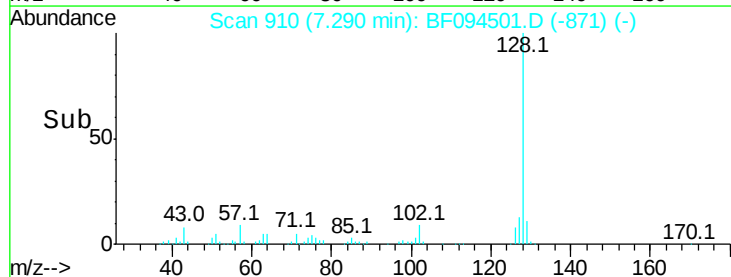
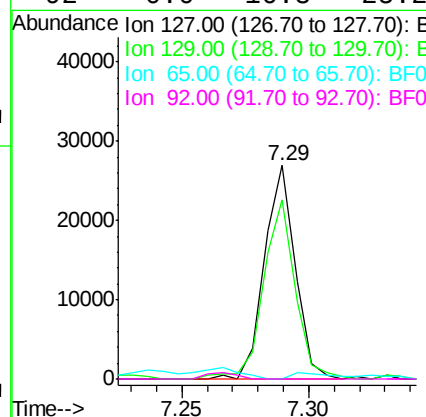
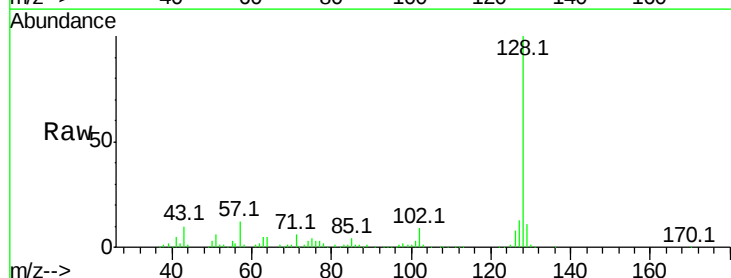
Instrument :
BNA_F
ClientSampled :

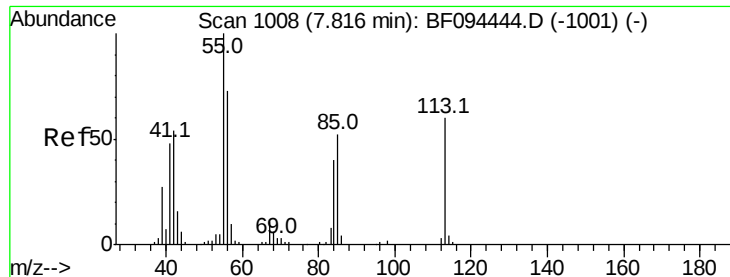
Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.3	10.8	16.2



#33
4-Chloroaniline
Concen: 2.25 ng
RT: 7.29 min Scan# 910
Delta R.T. -0.07 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Tgt Ion	Ratio	Lower	Upper
127	100		
129	83.9	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#





#35

Caprolactam

Concen: 2.46 ng

RT: 7.82 min Scan# 1001

Delta R.T. 0.01 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

Instrument :

BNA_F

ClientSampleId :

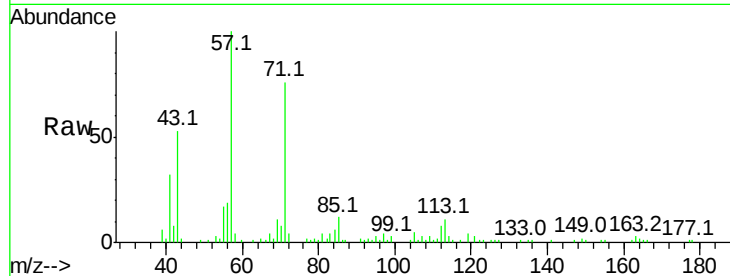
Tot Ion:113 Resp: 5411

Ion Ratio Lower Upper

113 100

55 149.0 150.2 190.2#

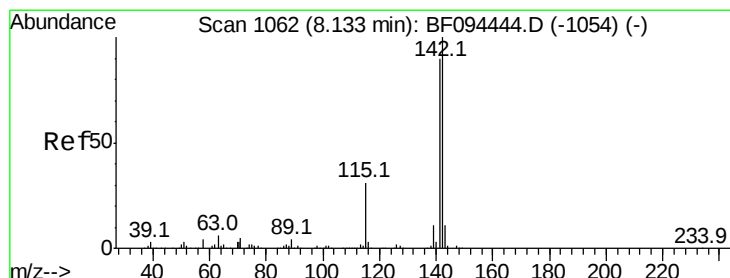
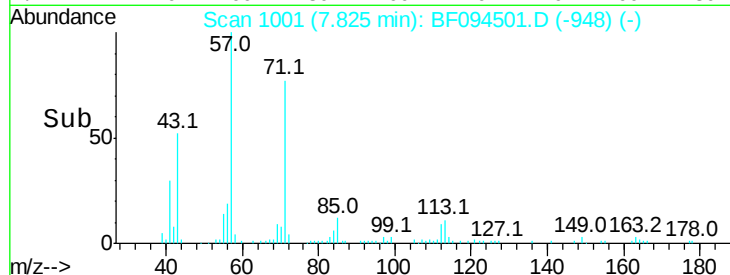
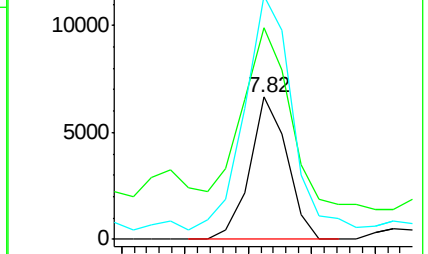
56 171.4 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#37

2-Methylnaphthalene

Concen: 7.26 ng

RT: 8.13 min Scan# 1053

Delta R.T. -0.00 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

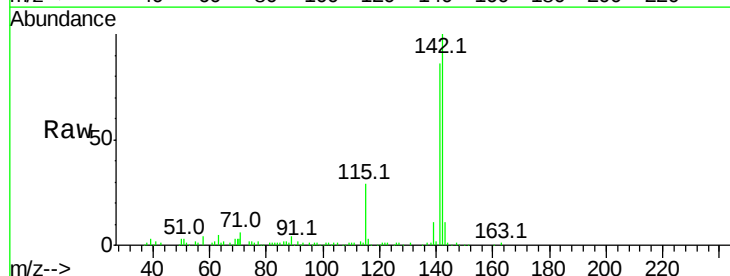
Tgt Ion:142 Resp: 120732

Ion Ratio Lower Upper

142 100

141 86.4 71.3 106.9

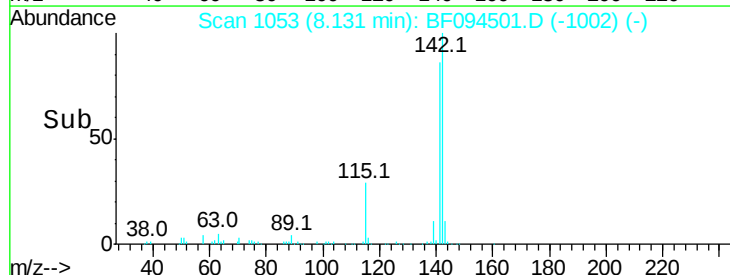
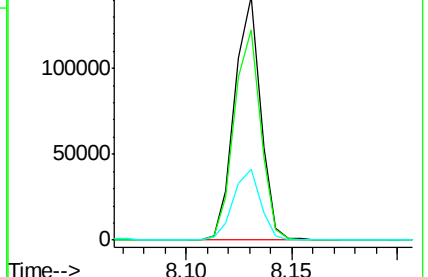
115 28.9 27.1 40.7

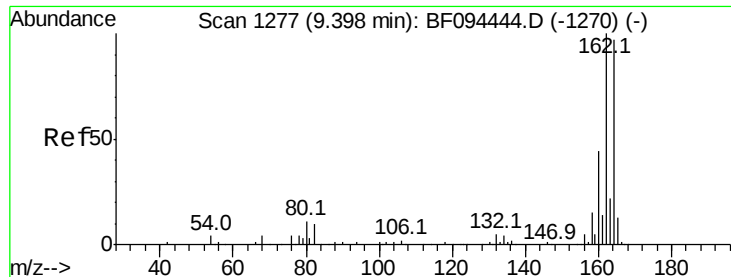


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

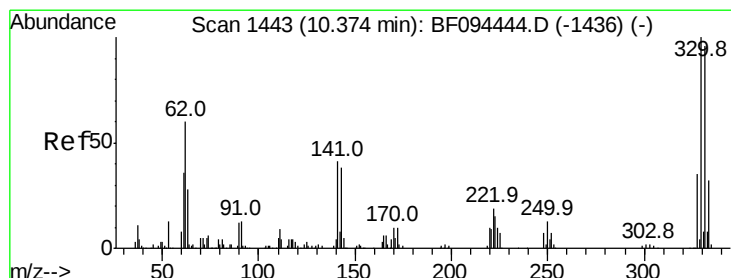
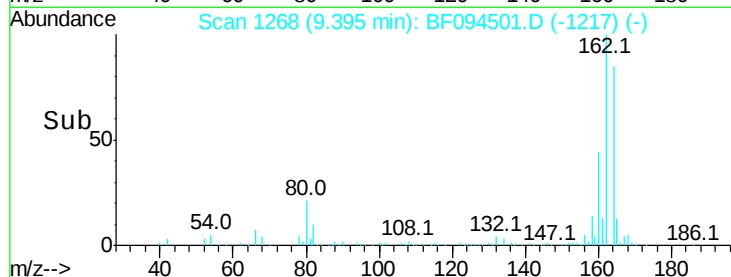
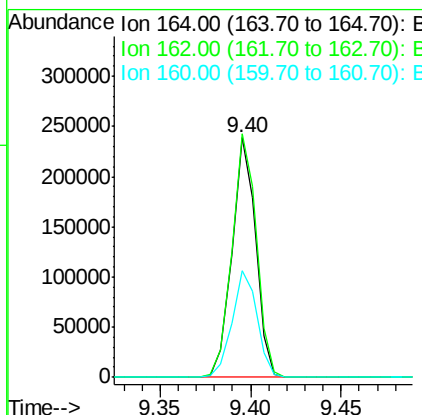
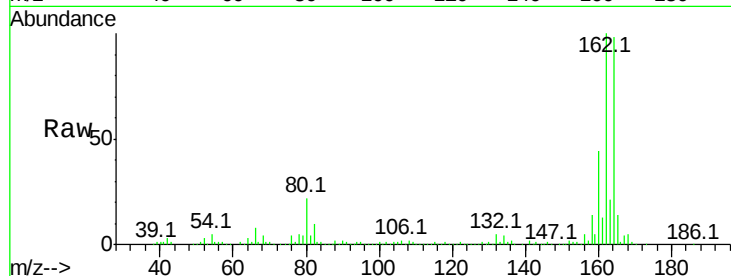




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.40 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

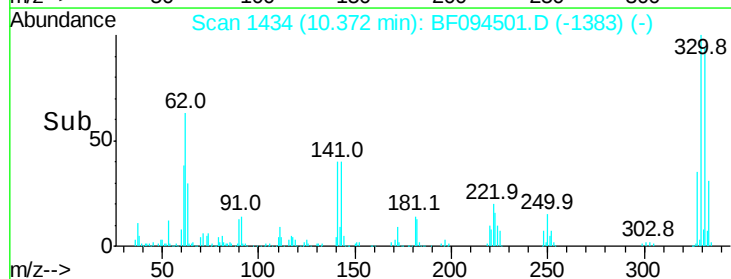
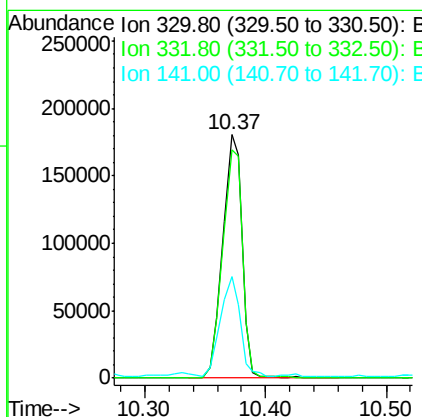
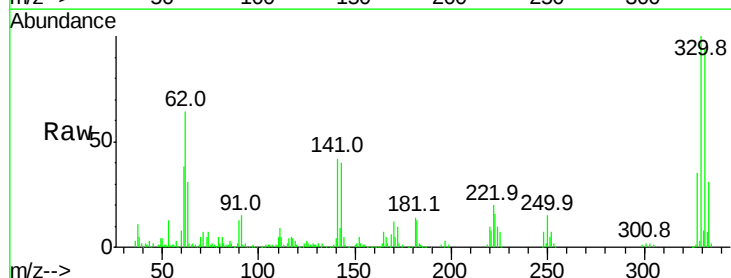
Instrument :
 BNA_F
 ClientSampleId :

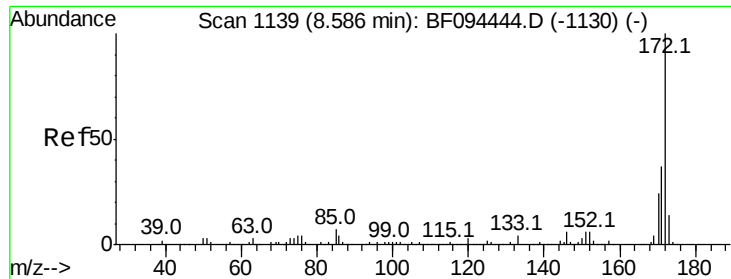
Tot Ion:164 Resp: 217859
 Ion Ratio Lower Upper
 164 100
 162 101.7 82.6 123.8
 160 44.8 36.2 54.2



#41
 2,4,6-Tribromophenol
 Concen: 117.62 ng
 RT: 10.37 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

Tgt Ion:330 Resp: 200434
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.6 115.0
 141 42.2 31.4 47.2

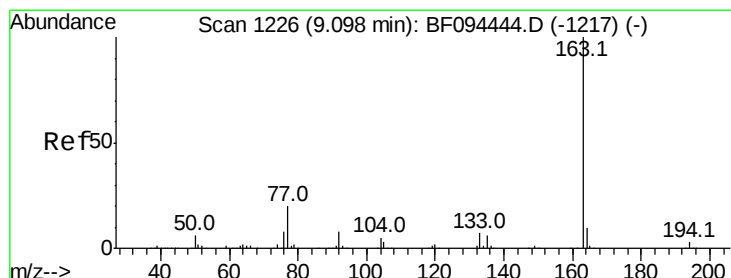
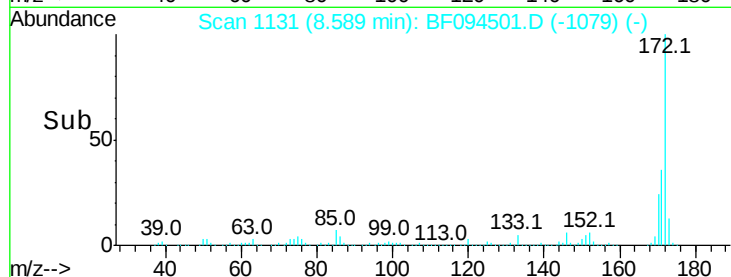
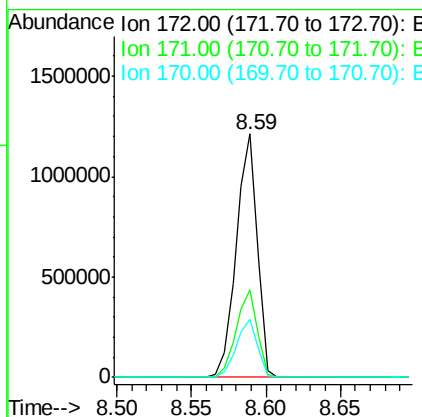
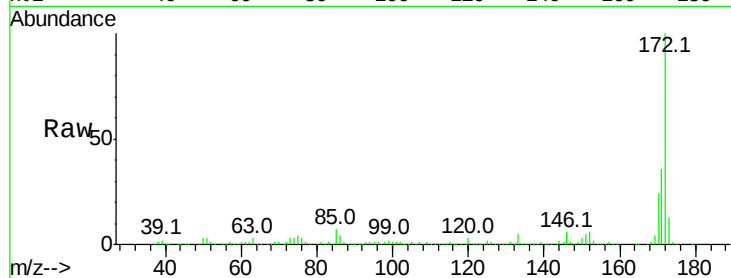




#44
2-Fluorobiphenyl
Concen: 80.58 ng
RT: 8.59 min Scan# 1131
Delta R.T. 0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

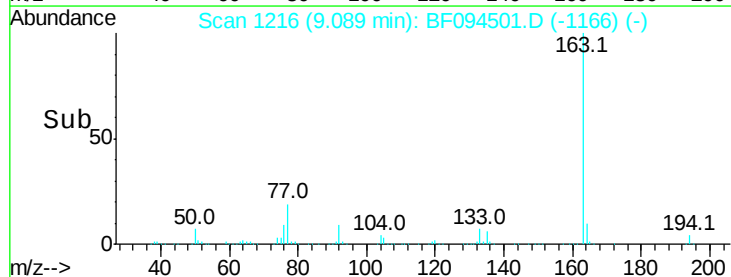
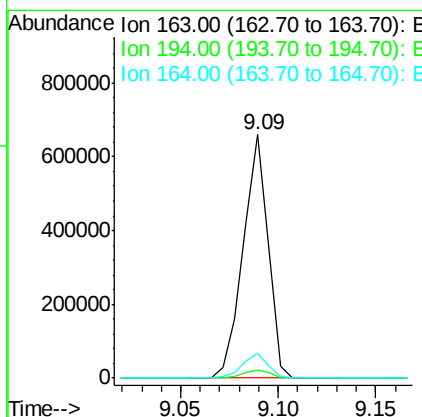
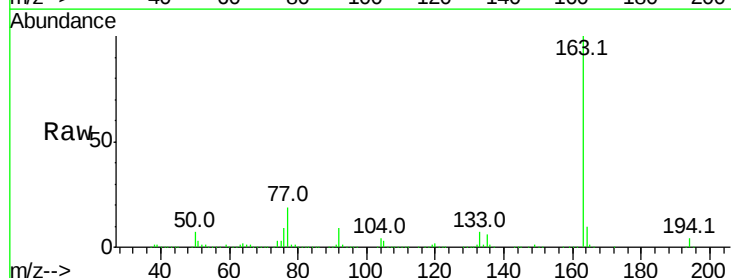
Instrument :
BNA_F
ClientSampleId :

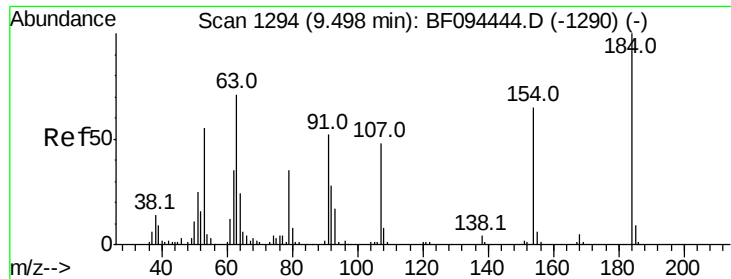
Tot Ion:172 Resp: 1193120
Ion Ratio Lower Upper
172 100
171 36.1 29.6 44.4
170 24.1 19.8 29.8



#49
Dimethylphthalate
Concen: 35.95 ng
RT: 9.09 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Tgt Ion:163 Resp: 583605
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 10.2 8.4 12.6

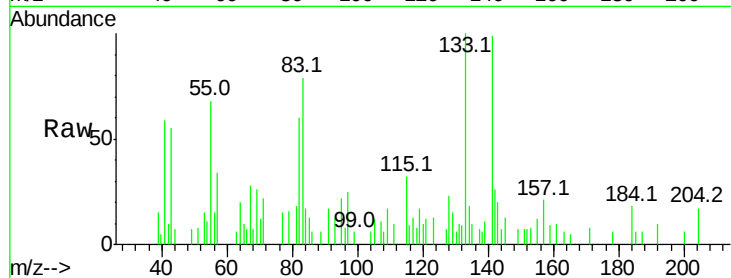




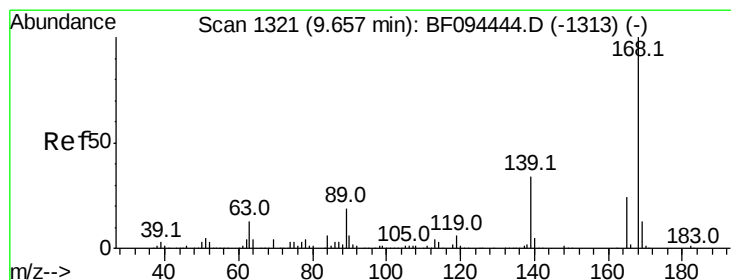
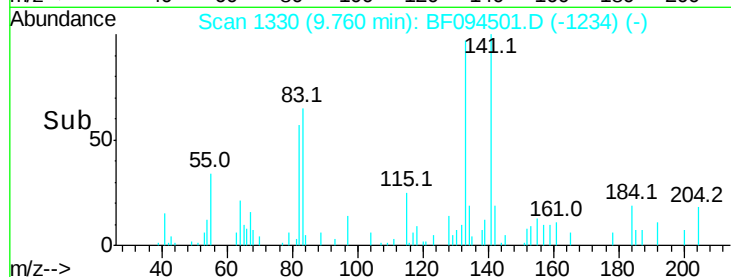
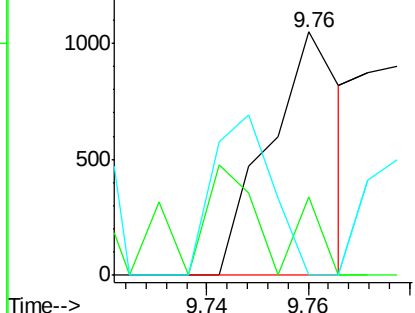
#53
 2,4-Dinitrophenol
 Concen: 6.24 ng
 RT: 9.76 min Scan# 1330
 Delta R.T. 0.26 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:184 Resp: 1036
 Ion Ratio Lower Upper
 184 100
 63 32.2 62.7 94.1#
 154 0.0 81.1 121.7#

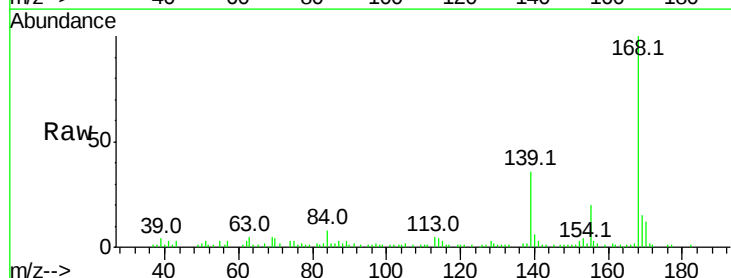


Abundance Ion 184.00 (183.70 to 184.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 154.00 (153.70 to 154.70): E

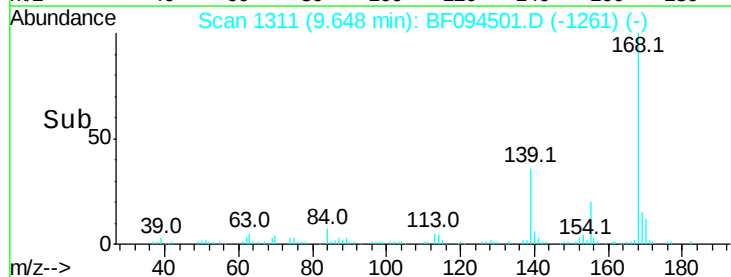
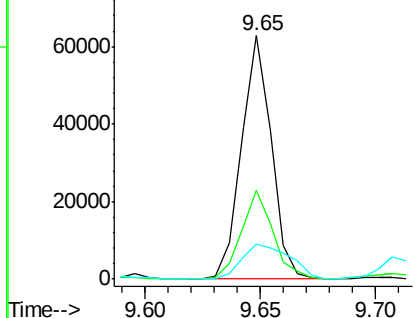


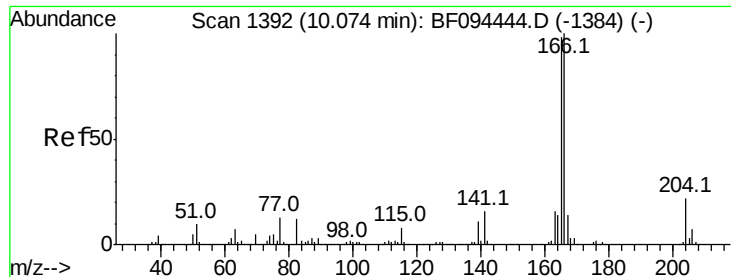
#54
 Dibenzofuran
 Concen: 2.96 ng
 RT: 9.65 min Scan# 1311
 Delta R.T. -0.01 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

Tgt Ion:168 Resp: 56937
 Ion Ratio Lower Upper
 168 100
 139 36.2 30.6 45.8
 169 14.5 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

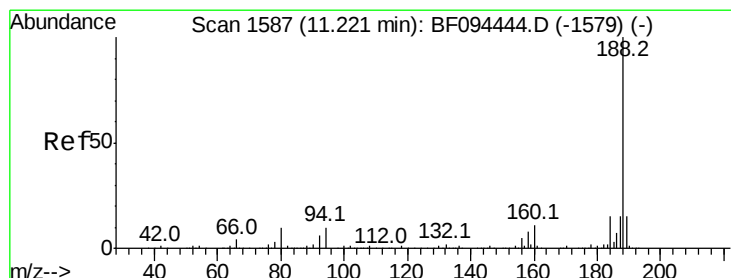
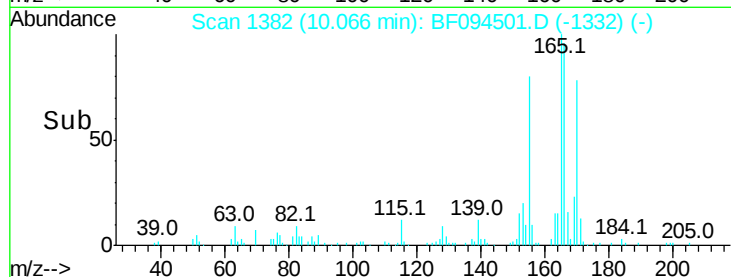
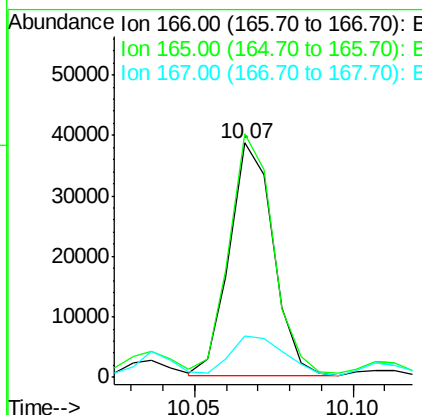
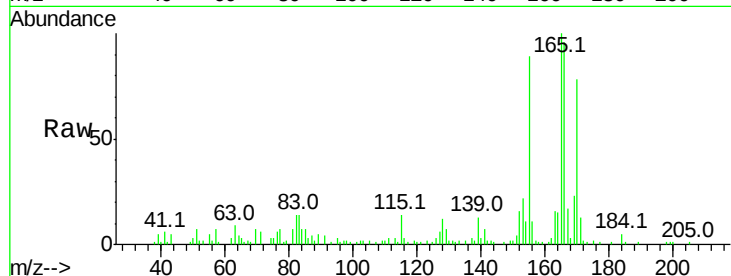




#57
Fluorene
 Concen: 2.47 ng
 RT: 10.07 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

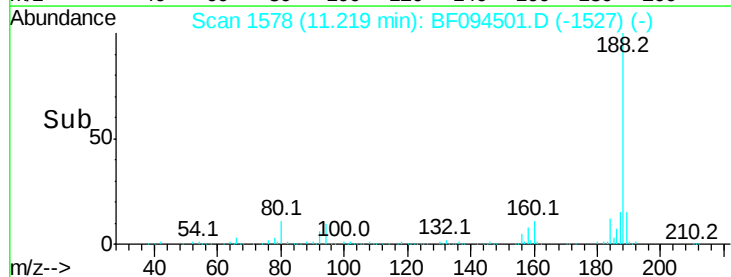
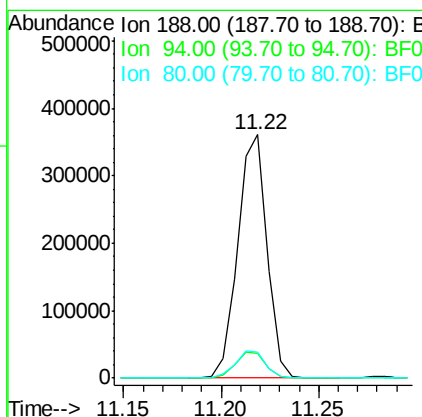
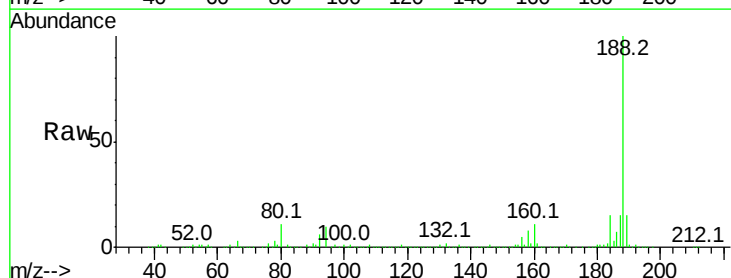
Instrument :
 BNA_F
 ClientSampled :

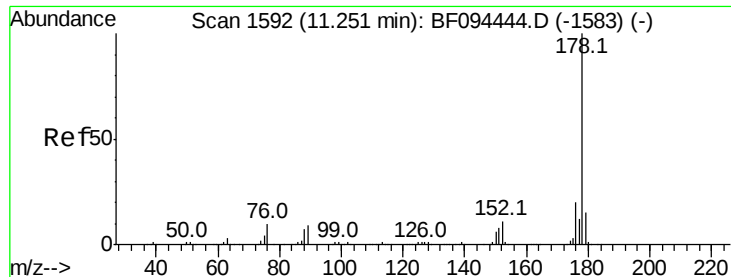
Tot Ion:166 Resp: 36929
 Ion Ratio Lower Upper
 166 100
 165 104.0 78.8 118.2
 167 17.7 10.6 16.0#



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.22 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

Tgt Ion:188 Resp: 373039
 Ion Ratio Lower Upper
 188 100
 94 9.9 9.4 14.2
 80 10.9 10.2 15.2





#70

Phenanthrene

Concen: 20.14 ng

RT: 11.25 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

Instrument :

BNA_F

ClientSampleId :

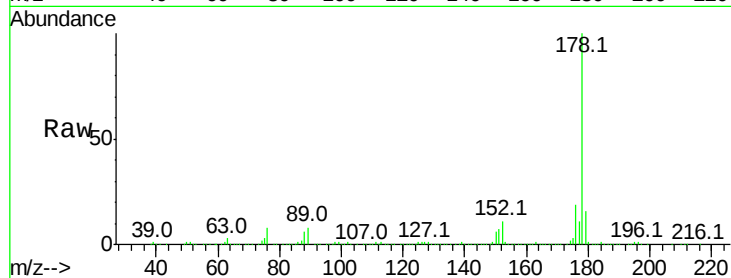
Tot Ion:178 Resp: 423095

Ion Ratio Lower Upper

178 100

176 19.2 16.2 24.4

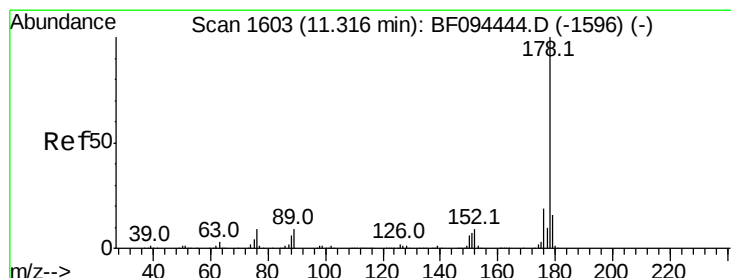
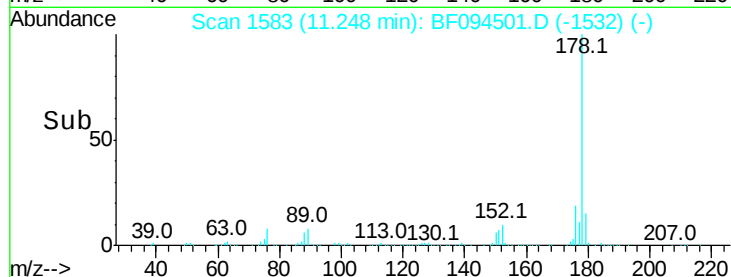
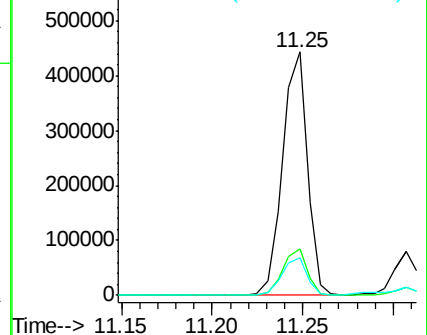
179 15.6 12.6 19.0



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: 3.15 ng

RT: 11.31 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

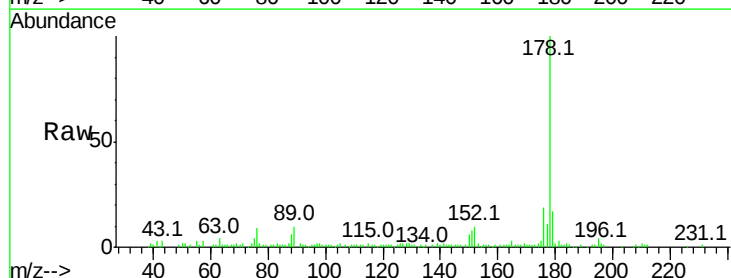
Tgt Ion:178 Resp: 68353

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

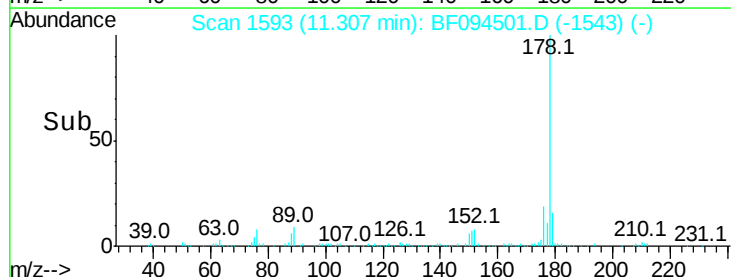
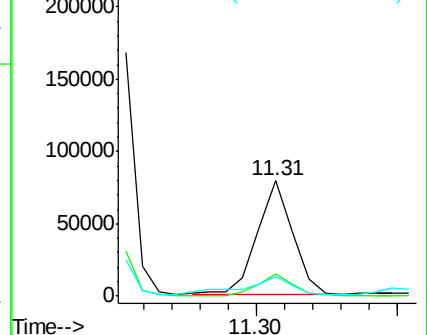
179 17.3 12.7 19.1

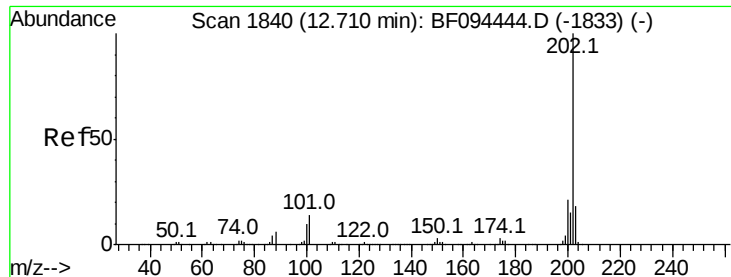


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 19.61 ng

RT: 12.71 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

Instrument :

BNA_F

ClientSampleId :

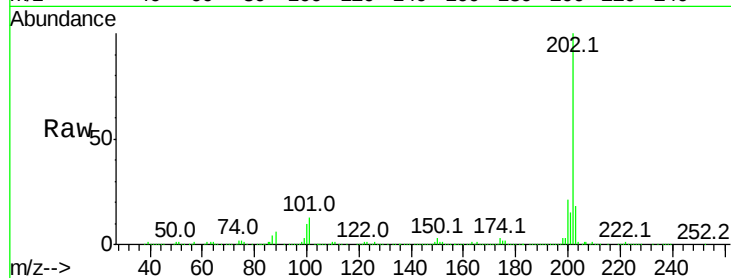
Tot Ion:202 Resp: 426970

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

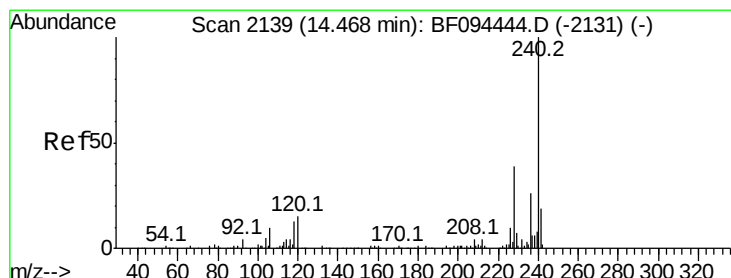
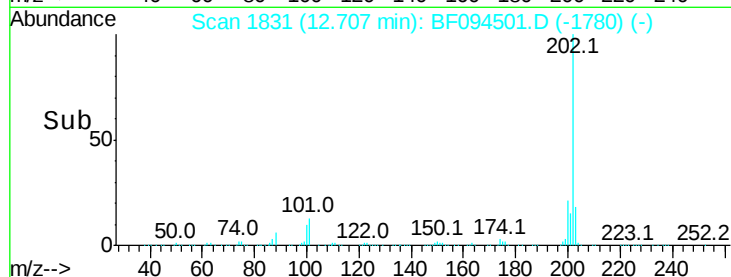
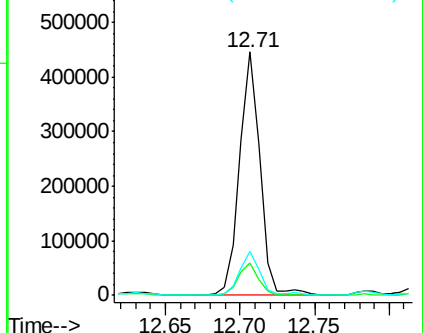
203 18.1 0.0 38.1



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: 14.47 min Scan# 2130

Delta R.T. -0.00 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

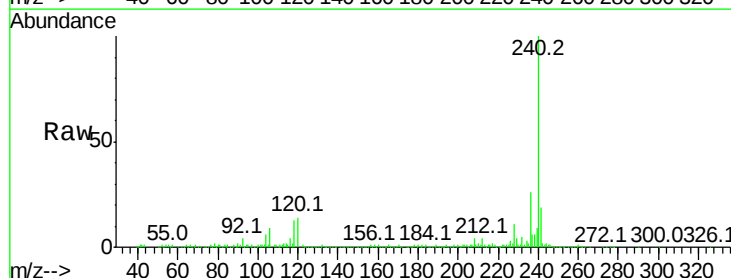
Tgt Ion:240 Resp: 287751

Ion Ratio Lower Upper

240 100

120 13.6 5.8 8.8#

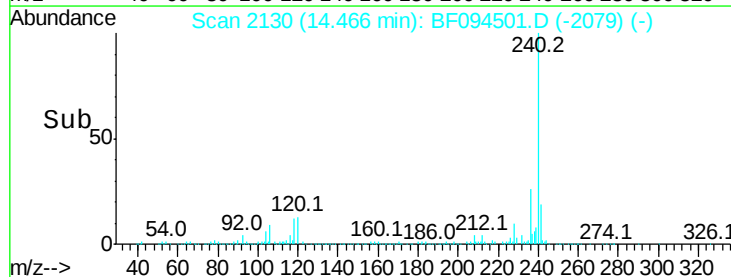
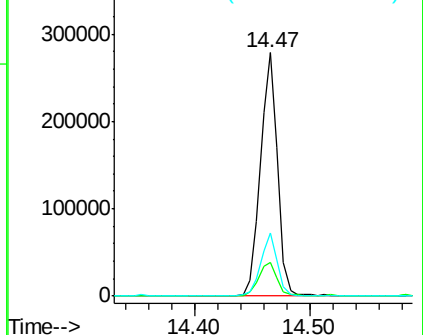
236 26.1 20.5 30.7

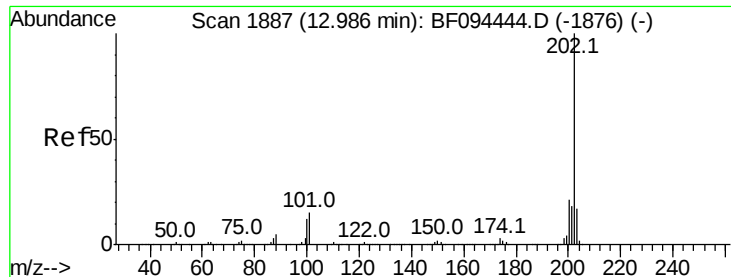


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

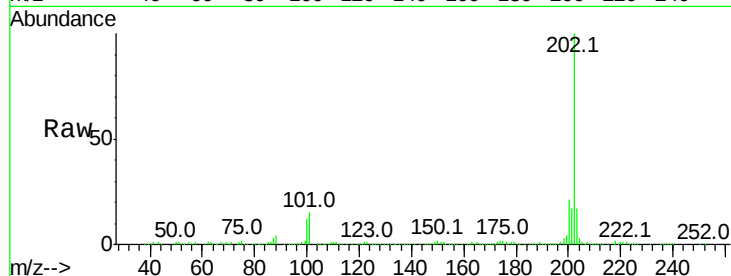




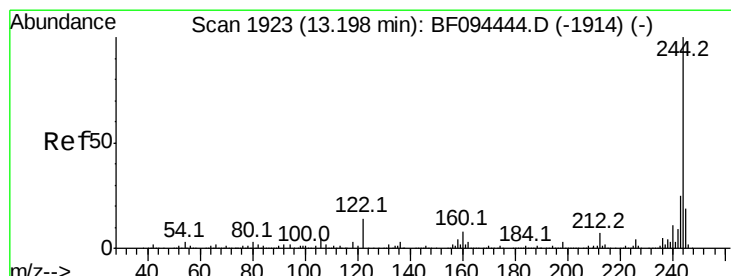
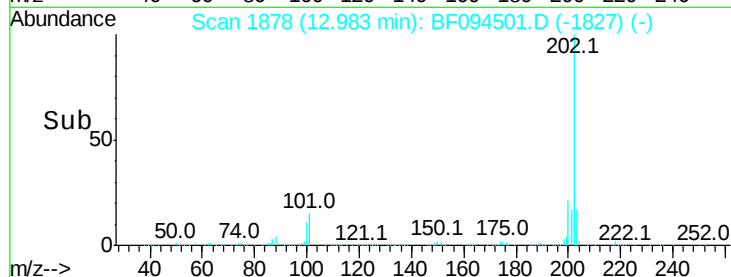
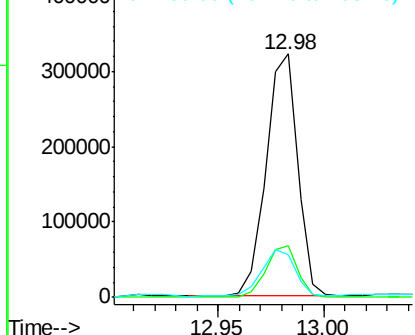
#77
Pvrene
Concen: 16.72 ng
RT: 12.98 min Scan# 1878
Delta R.T. -0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.6	26.4
203	17.3	14.4	21.6

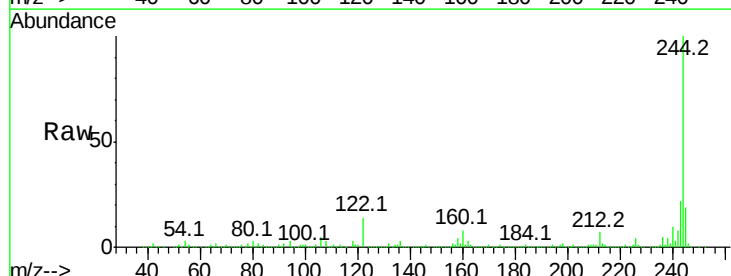


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

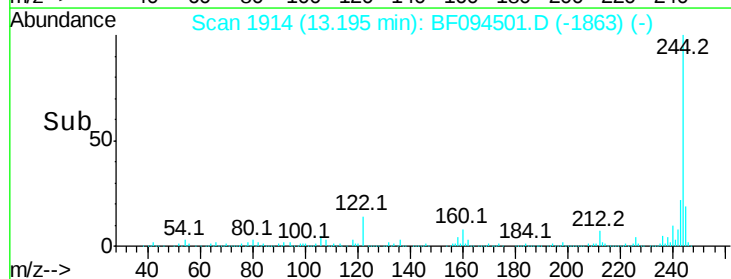
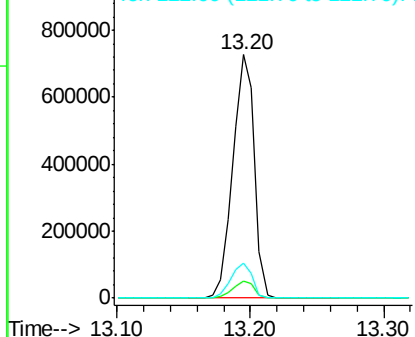


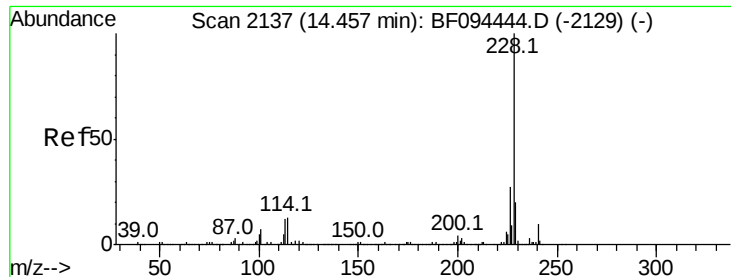
#78
Terphenyl-d14
Concen: 76.16 ng
RT: 13.20 min Scan# 1914
Delta R.T. -0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	14.2	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

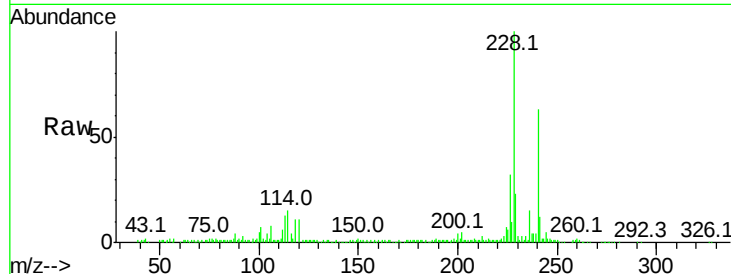




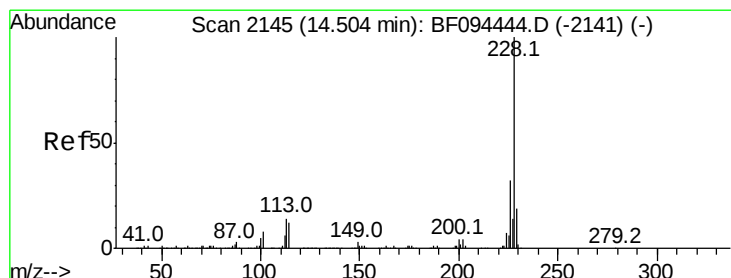
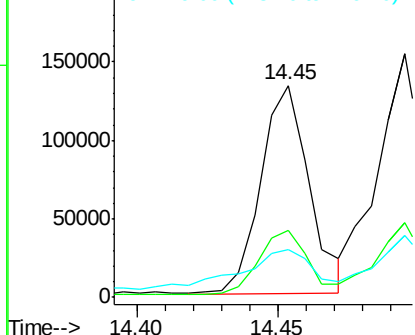
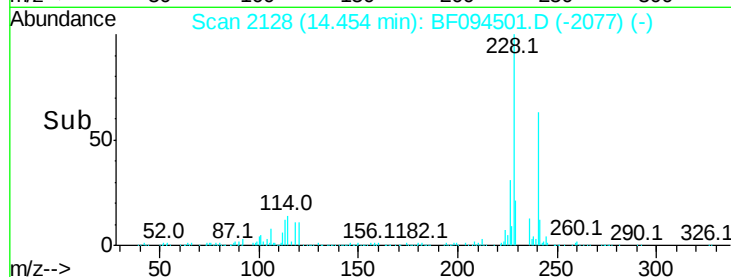
#80
Benzo(a)anthracene
Concen: 9.49 ng
RT: 14.45 min Scan# 2128
Delta R.T. -0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.5	22.6	33.8
229	22.8	16.3	24.5

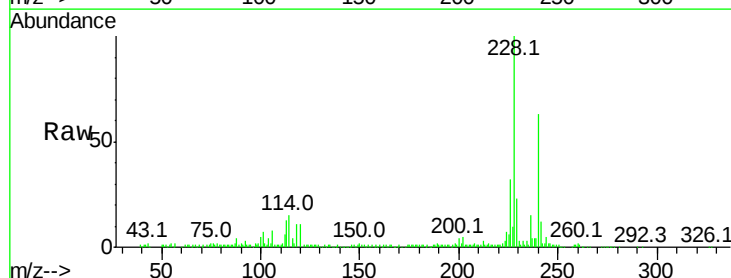


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

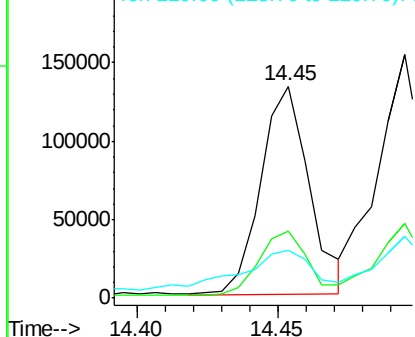
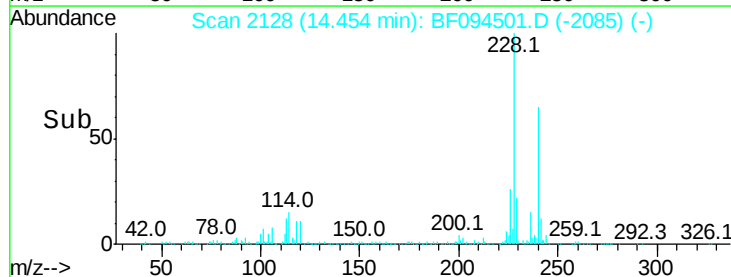


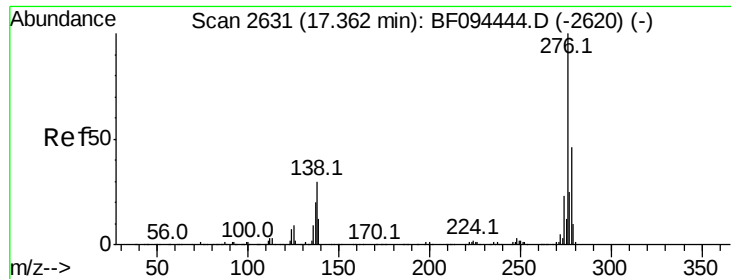
#82
Chrysene
Concen: 10.38 ng
RT: 14.45 min Scan# 2128
Delta R.T. -0.05 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.9	37.3
229	22.8	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

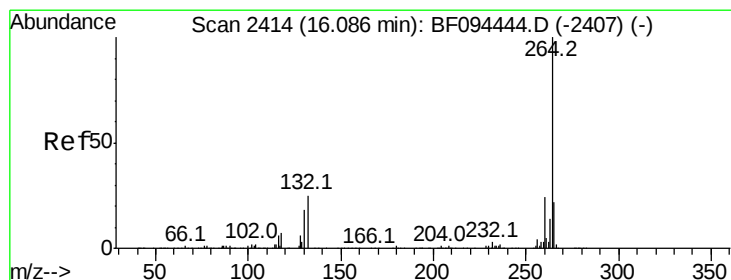
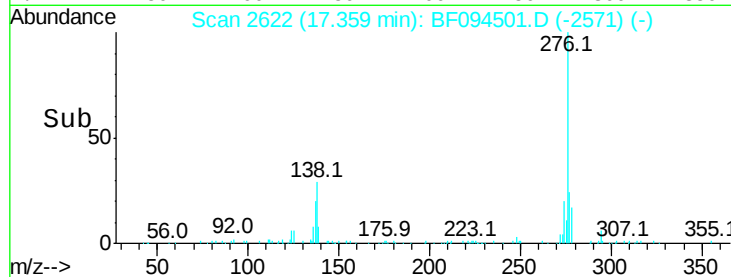
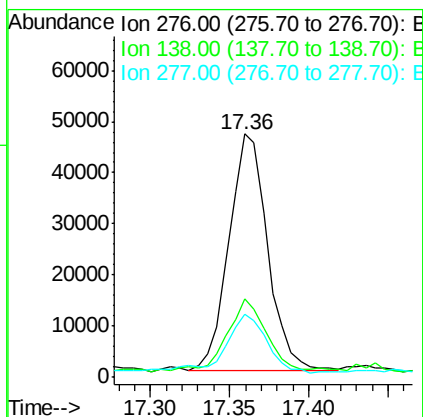
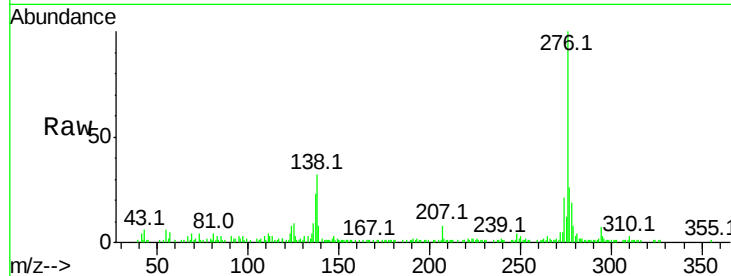




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.37 ng
 RT: 17.36 min Scan# 2622
 Delta R.T. -0.00 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

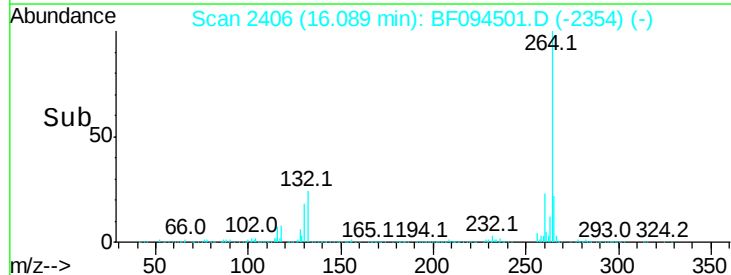
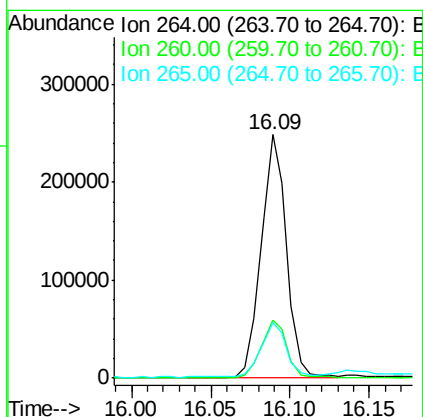
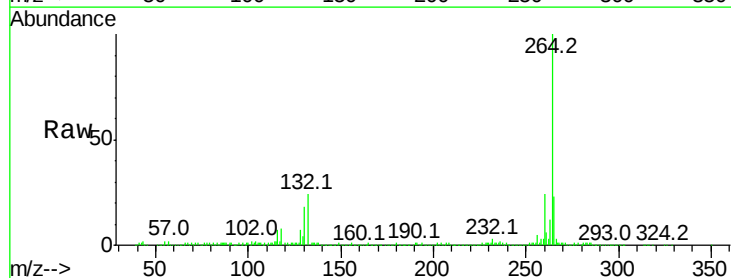
Instrument :
 BNA_F
 ClientSampleId :

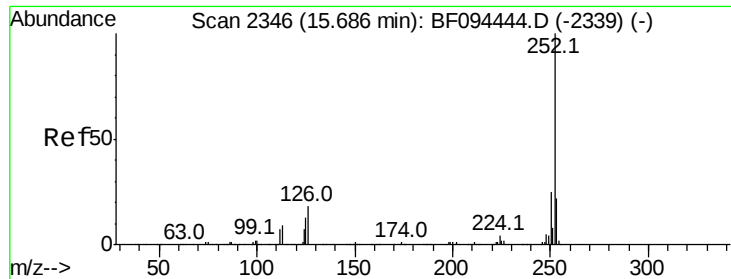
Tot Ion:276 Resp: 78158
 Ion Ratio Lower Upper
 276 100
 138 32.3 27.8 41.6
 277 25.4 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.09 min Scan# 2406
 Delta R.T. 0.00 min
 Lab File: BF094501.D
 Acq: 18 Apr 2017 22:05

Tgt Ion:264 Resp: 278681
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.5 29.3
 265 22.6 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 15.60 ng

RT: 15.69 min Scan# 2338

Delta R.T. 0.00 min

Lab File: BF094501.D

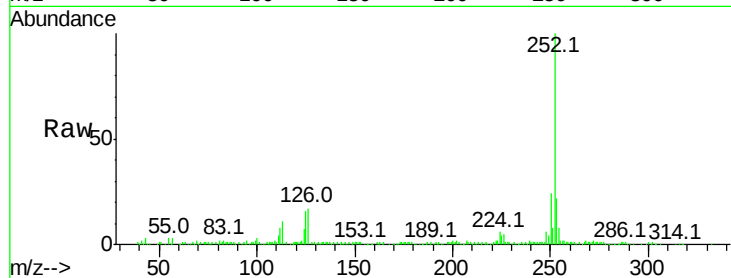
Acq: 18 Apr 2017 22:05

Instrument :

BNA_F

ClientSampleId :

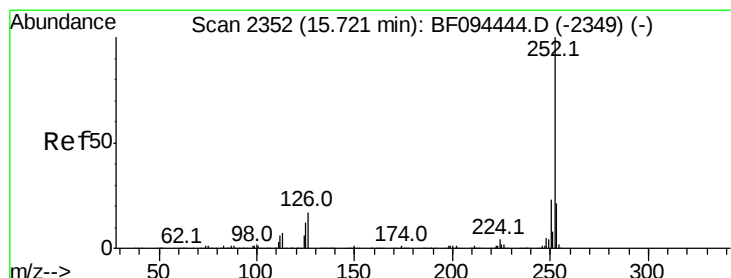
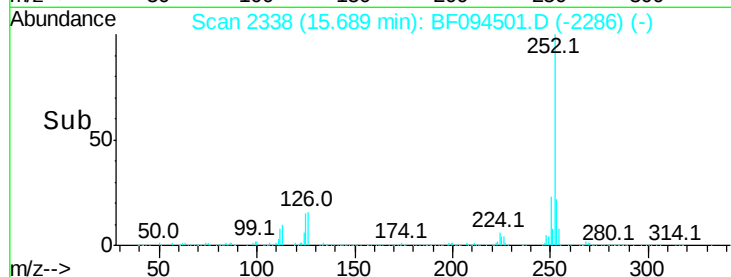
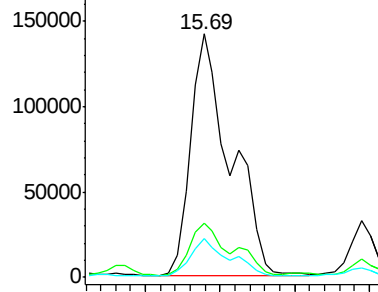
Tot Ion:252	Resp:	265997
Ion Ratio	Lower	Upper
252	100	
253	22.5	18.1 27.1
125	15.7	9.8 14.8#



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: 16.49 ng

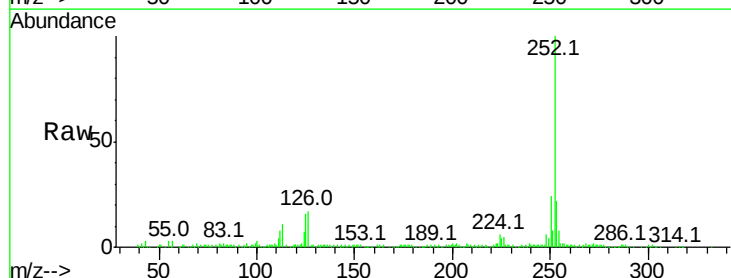
RT: 15.69 min Scan# 2338

Delta R.T. -0.03 min

Lab File: BF094501.D

Acq: 18 Apr 2017 22:05

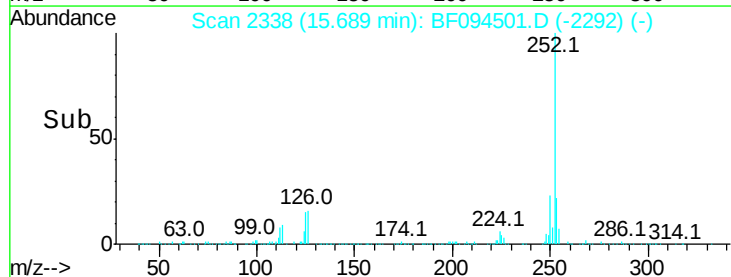
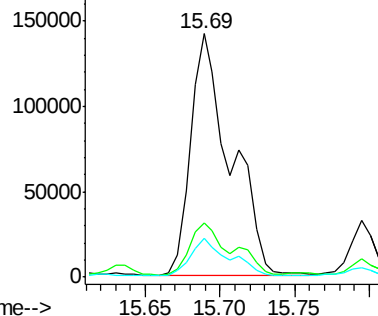
Tgt Ion:252	Resp:	265997
Ion Ratio	Lower	Upper
252	100	
253	22.5	18.4 27.6
125	15.7	13.1 19.7

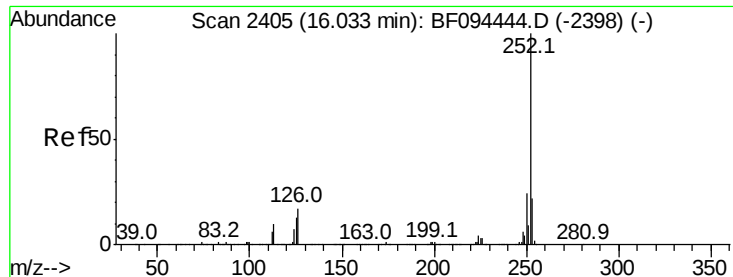


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

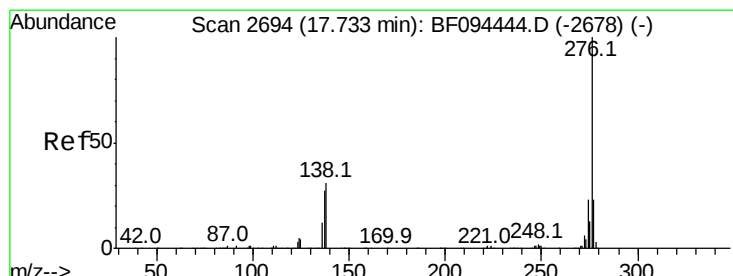
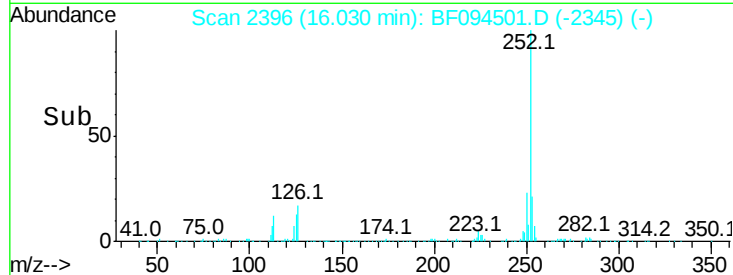
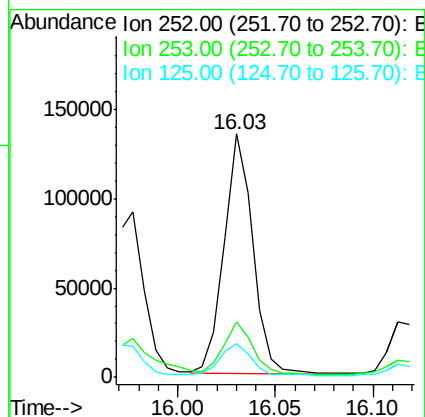
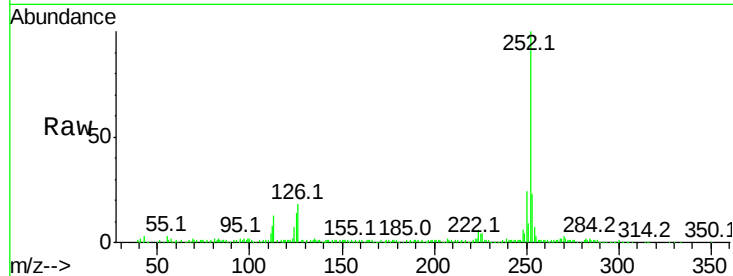




#89
Benzo(a)pyrene
Concen: 8.65 ng
RT: 16.03 min Scan# 2396
Delta R.T. -0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 137246
Ion Ratio Lower Upper
252 100
253 22.5 17.5 26.3
125 13.8 11.0 16.4



#91
Benzo(g,h,i)perylene
Concen: 5.25 ng
RT: 17.74 min Scan# 2686
Delta R.T. 0.00 min
Lab File: BF094501.D
Acq: 18 Apr 2017 22:05

Tgt Ion:276 Resp: 70410
Ion Ratio Lower Upper
276 100
277 24.7 18.6 28.0
138 31.2 25.4 38.0

