

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093932.D
 Acq On : 25 Mar 2017 3:03
 Operator : SJ/MA
 Sample : I2379-03
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3

Quant Time: Mar 25 04:07:07 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.96	152	171468	20.00	ng	-0.03
21) Naphthalene-d8	7.46	136	663419	20.00	ng	-0.03
38) Acenaphthene-d10	9.60	164	274679	20.00	ng	-0.04
63) Phenanthrene-d10	11.43	188	404441	20.00	ng	-0.03
75) Chrysene-d12	14.69	240	303535	20.00	ng	-0.03
86) Perylene-d12	16.32	264	252270	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	4.50	112	1375314	135.47	ng	0.00
7) Phenol-d6	5.56	99	1727196	137.53	ng	0.00
23) Nitrobenzene-d5	6.61	82	1064985	91.61	ng	-0.03
41) 2,4,6-Tribromophenol	10.58	330	276273	127.28	ng	-0.03
44) 2-Fluorobiphenyl	8.79	172	1586416	88.09	ng	-0.03
78) Terphenyl-d14	13.41	244	896937	66.24	ng	-0.03

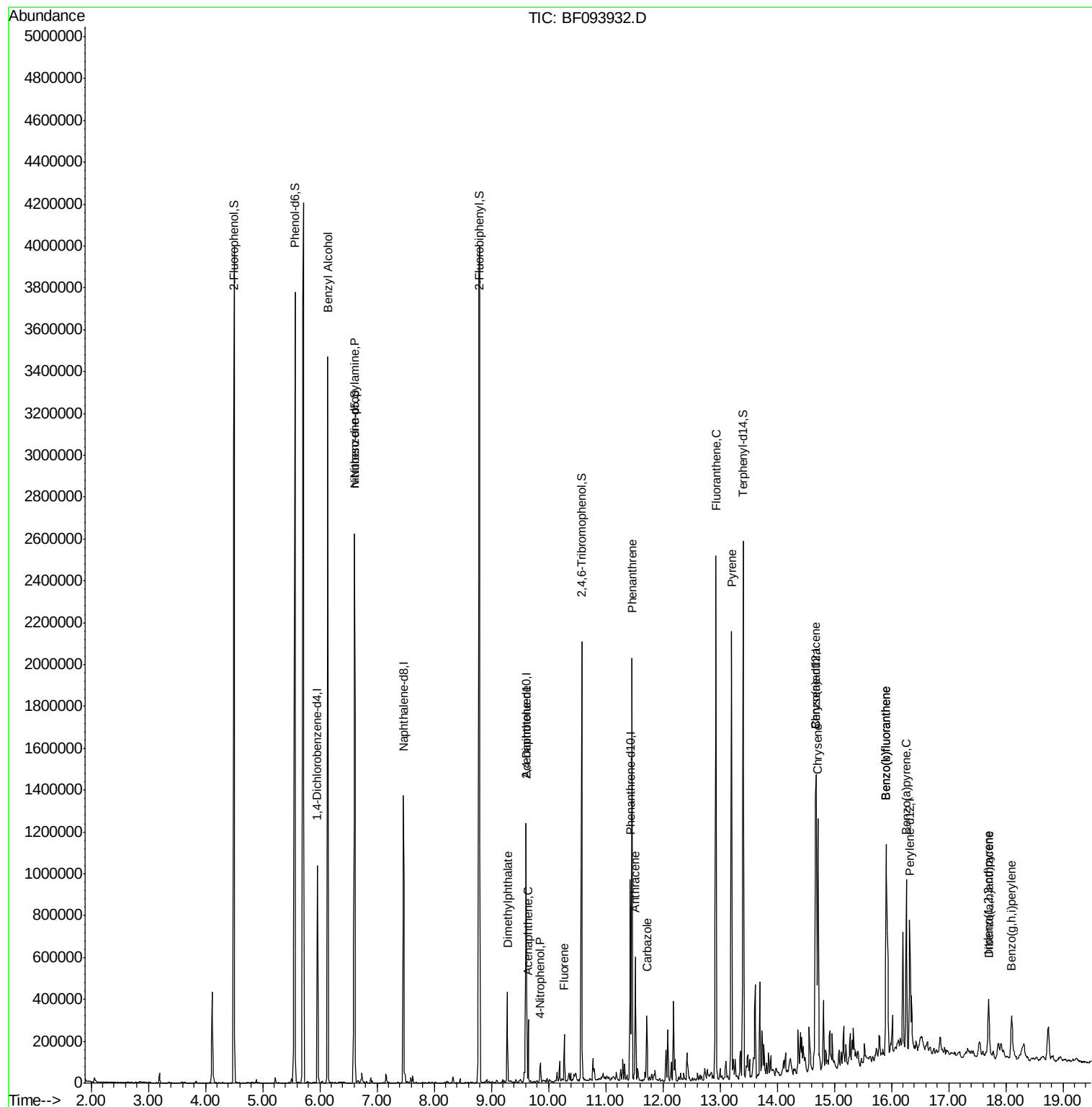
Target Compounds						Qvalue
15) Benzyl Alcohol	6.14	79	18735	2.04	ng	# 46
19) n-Nitroso-di-n-propylamine	6.61	70	138762	17.19	ng	# 79
49) Dimethylphthalate	9.28	163	178452	9.14	ng	98
51) Acenaphthene	9.65	154	66976	3.98	ng	96
55) 4-Nitrophenol	9.86	139	12658	3.08	ng	# 27
56) 2,4-Dinitrotoluene	9.60	165	36072	6.42	ng	# 33
57) Fluorene	10.28	166	65725	3.46	ng	98
70) Phenanthrene	11.46	178	797941	35.47	ng	98
71) Anthracene	11.52	178	229336	9.90	ng	98
72) Carbazole	11.72	167	128539	5.41	ng	97
74) Fluoranthene	12.93	202	1156040	50.18	ng	99
77) Pvrene	13.20	202	1001693	45.47	ng	98
80) Benzo(a)anthracene	14.67	228	524021	29.61	ng	100
82) Chrysene	14.72	228	497607	30.29	ng	97
85) Indeno(1,2,3-cd)pyrene	17.70	276	171274	12.04	ng	93
87) Benzo(b)fluoranthene	15.91	252	732682	47.38	ng	# 97
88) Benzo(k)fluoranthene	15.91	252	732682	48.43	ng	98
89) Benzo(a)pyrene	16.26	252	360898	25.34	ng	98
90) Dibenzo(a,h)anthracene	17.71	278	48450	4.02	ng	95
91) Benzo(a,h,i)perylene	18.10	276	151390	12.46	ng	99

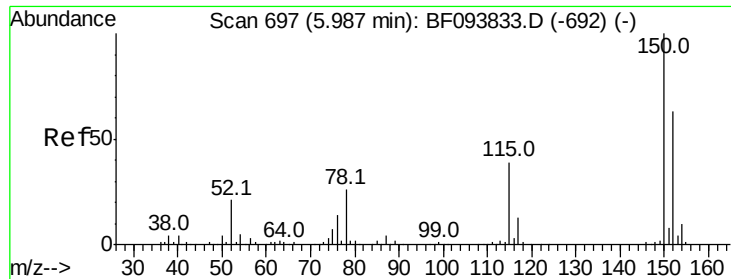
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.96 min Scan# 692

Delta R.T. -0.03 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

BNA_F

ClientSampleId :

B-3

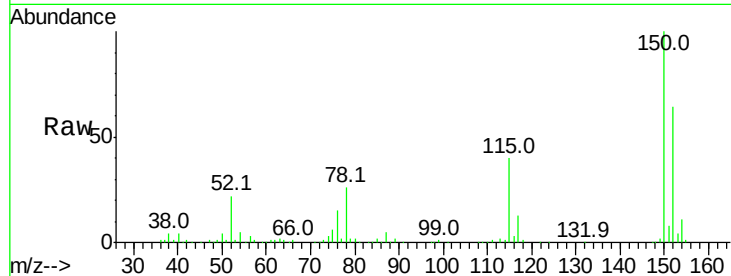
Tot Ion:152 Resp: 171468

Ion Ratio Lower Upper

152 100

150 157.0 126.2 189.2

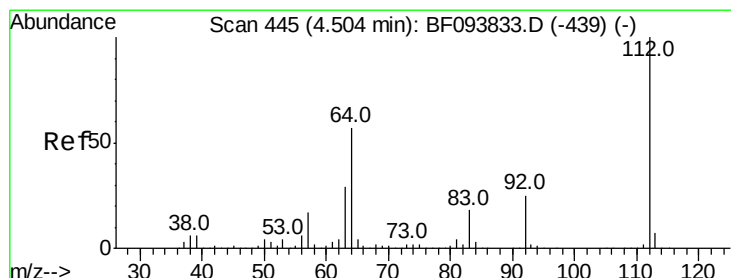
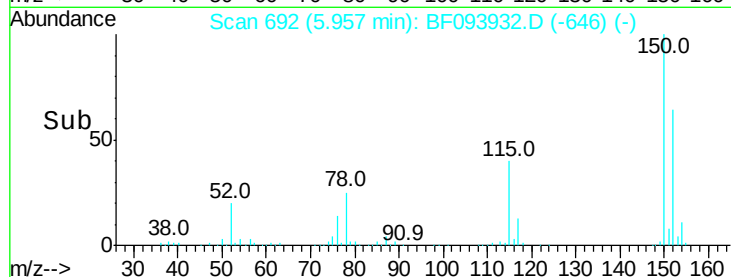
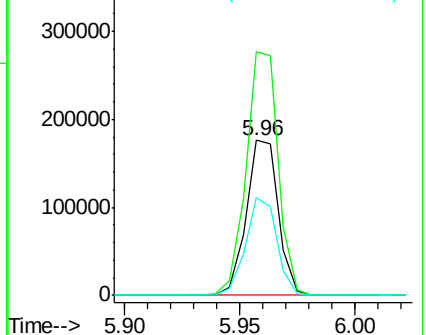
115 63.2 52.2 78.2



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: 135.47 ng

RT: 4.50 min Scan# 444

Delta R.T. -0.01 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

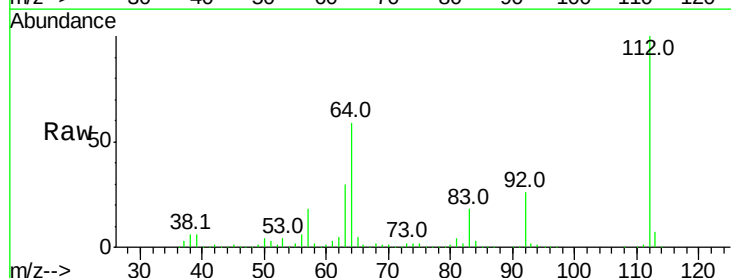
Tgt Ion:112 Resp: 1375314

Ion Ratio Lower Upper

112 100

64 58.6 46.0 69.0

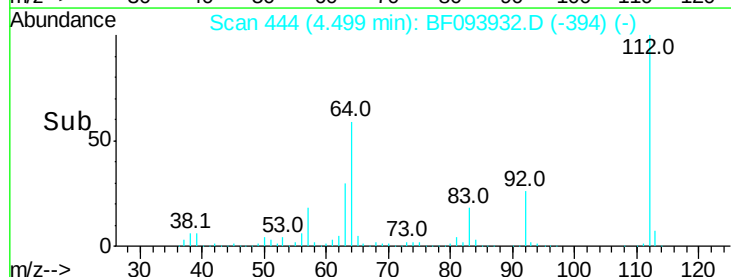
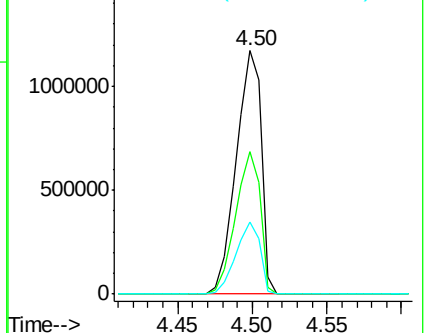
63 29.6 23.4 35.0

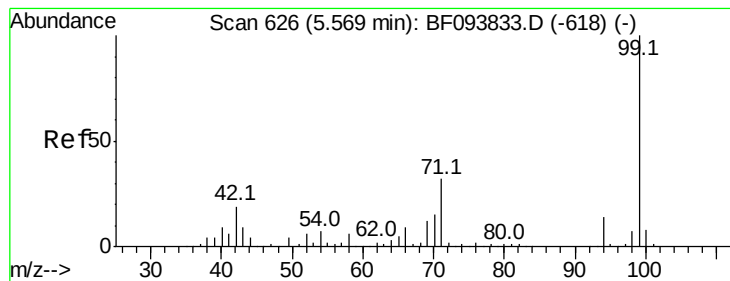


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 137.53 ng

RT: 5.56 min Scan# 625

Delta R.T. -0.01 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

BNA_F

ClientSampleId :

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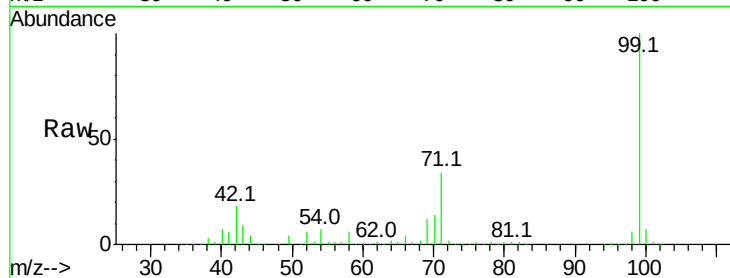
Tot Ion: 99 Resp: 1727196

Ion Ratio Lower Upper

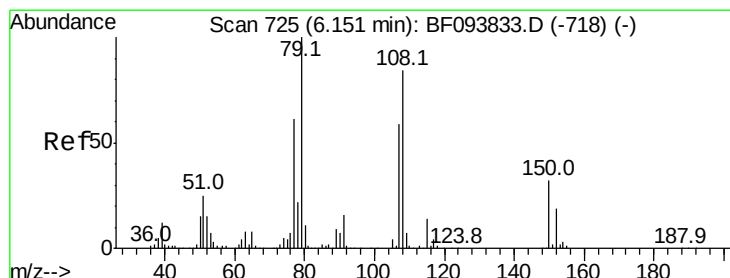
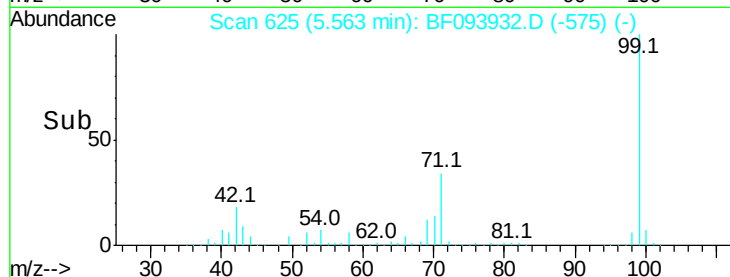
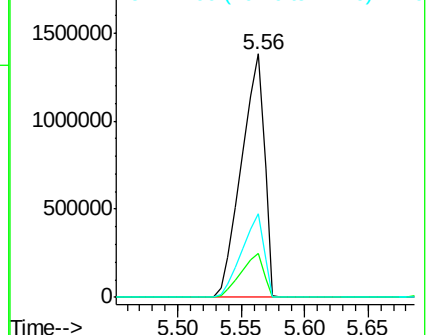
99 100

42 17.8 13.5 20.3

71 34.4 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



#15

Benzyl Alcohol

Concen: 2.04 ng

RT: 6.14 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

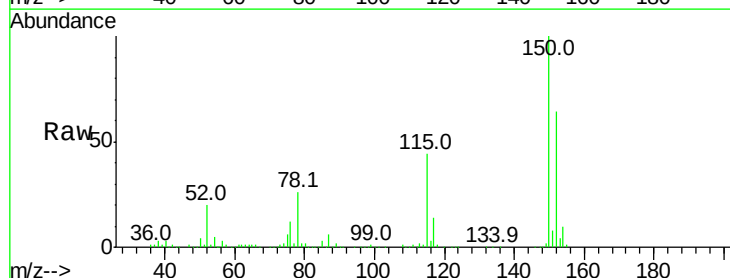
Tgt Ion: 79 Resp: 18735

Ion Ratio Lower Upper

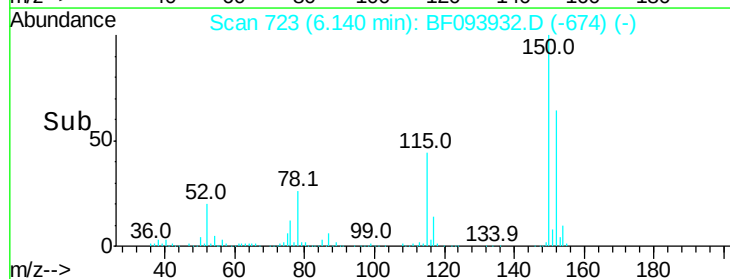
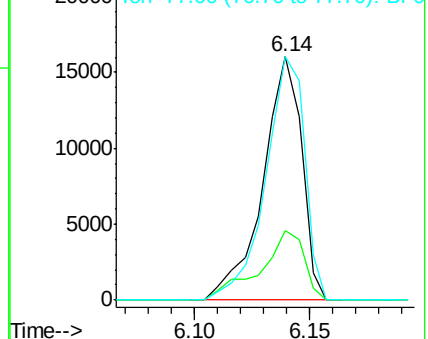
79 100

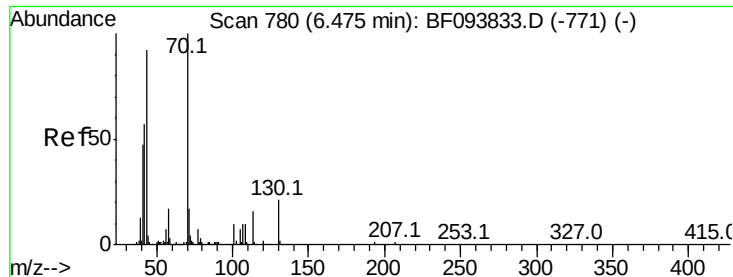
108 28.5 63.4 95.0#

77 99.9 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0
Ion 108.00 (107.70 to 108.70): BF0
Ion 77.00 (76.70 to 77.70): BF0

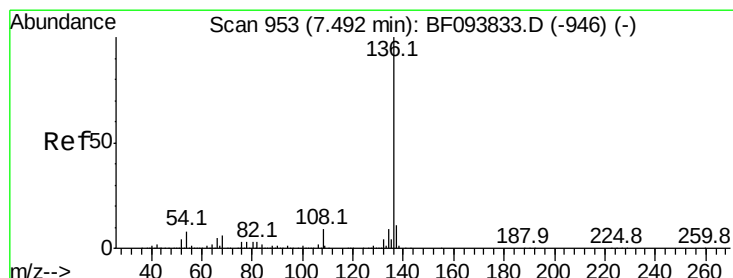
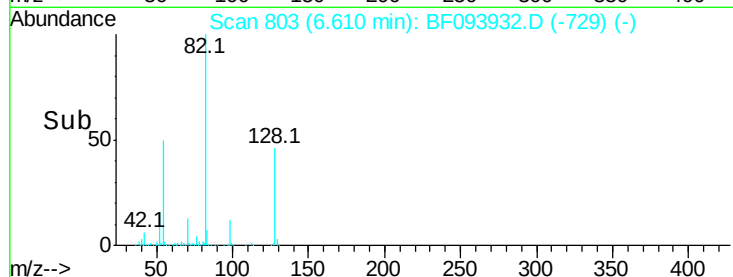
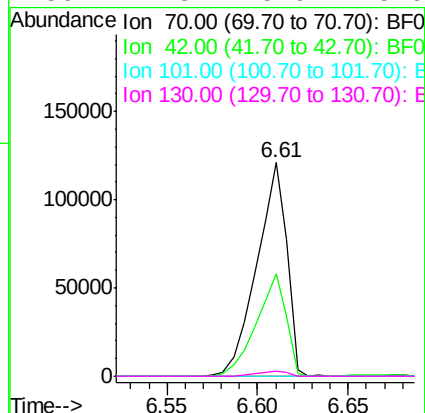
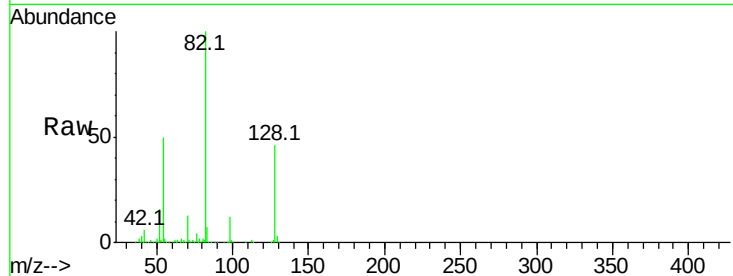




#19
n-Nitroso-di-n-propylamine
Concen: 17.19 ng
RT: 6.61 min Scan# 803
Delta R.T. 0.14 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

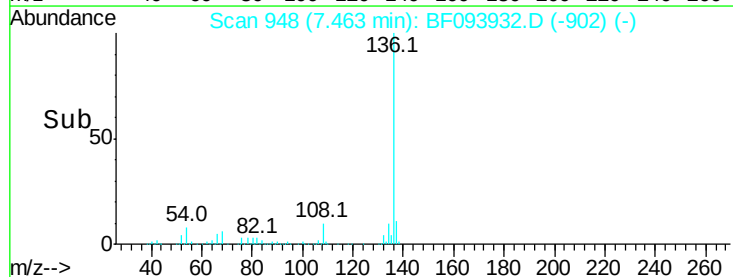
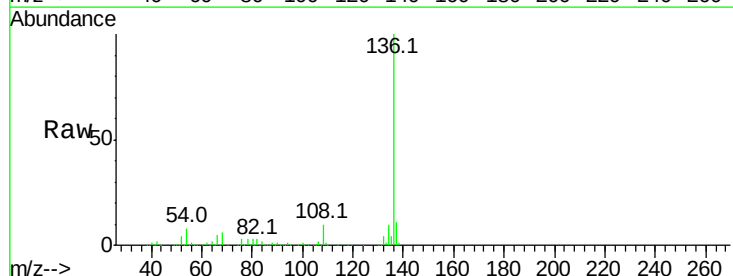
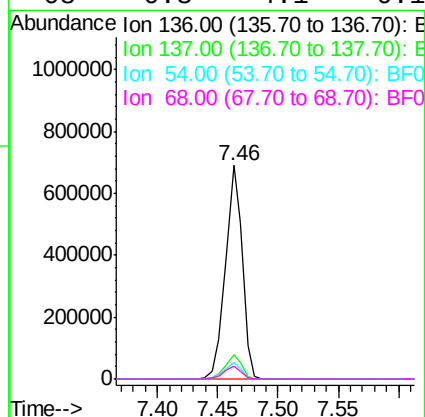
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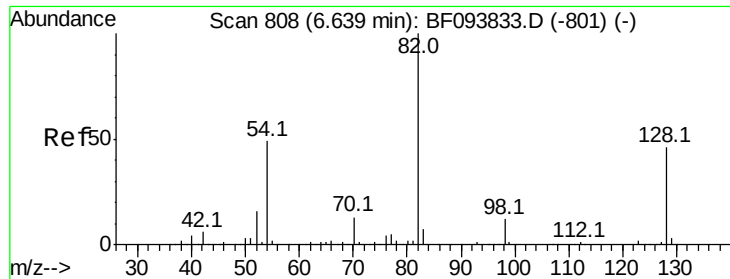
Tot Ion	Ratio	Lower	Upper
70	100		
42	48.0	47.2	70.8
101	0.0	7.2	10.8#
130	2.3	15.9	23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.46 min Scan# 948
Delta R.T. -0.03 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.5	12.7
54	7.7	4.9	7.3#
68	6.3	4.1	6.1#

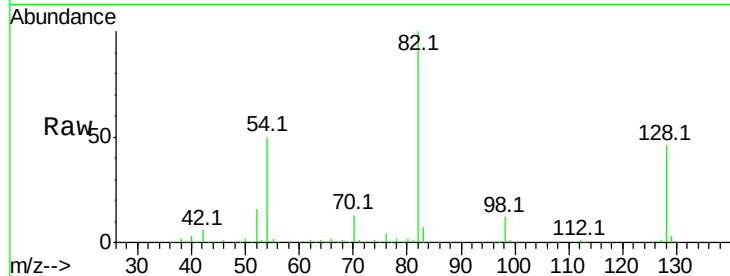




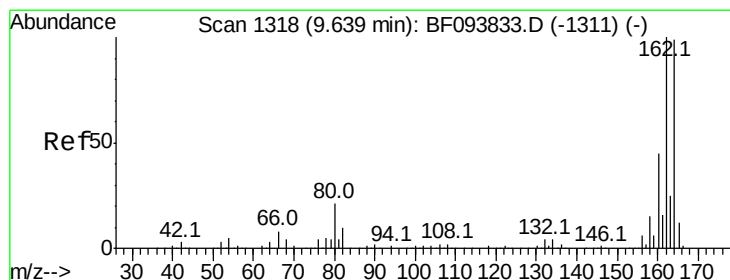
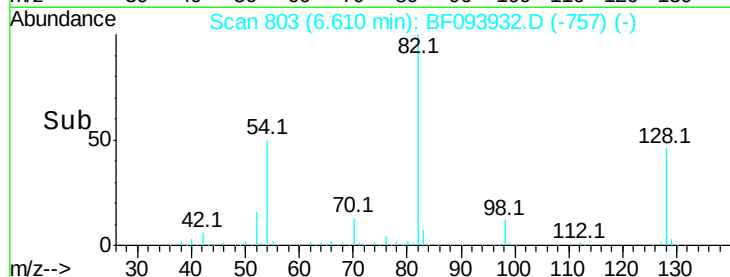
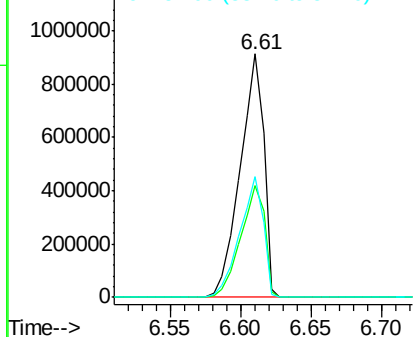
#23
Nitrobenzene-d5
Concen: 91.61 ng
RT: 6.61 min Scan# 803
Delta R.T. -0.03 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

Instrument :
BNA_F
ClientSampleId :
B-3

Tot Ion: 82 Resp: 1064985
Ion Ratio Lower Upper
82 100
128 46.1 34.0 51.0
54 49.6 42.2 63.2

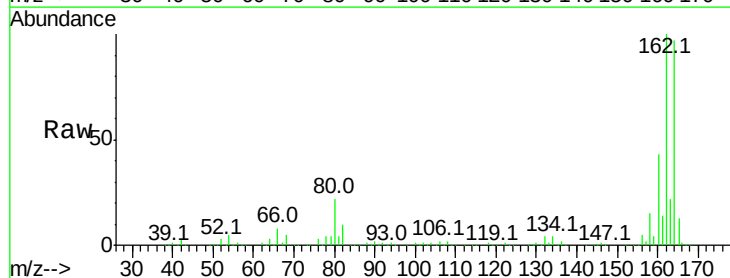


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

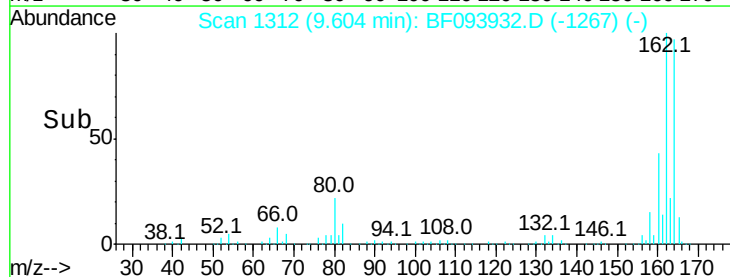
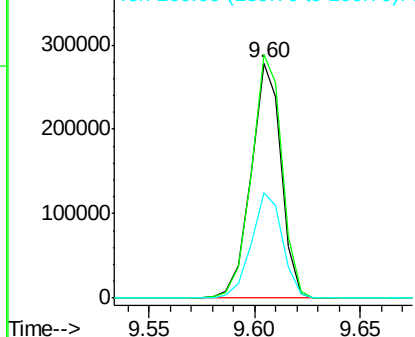


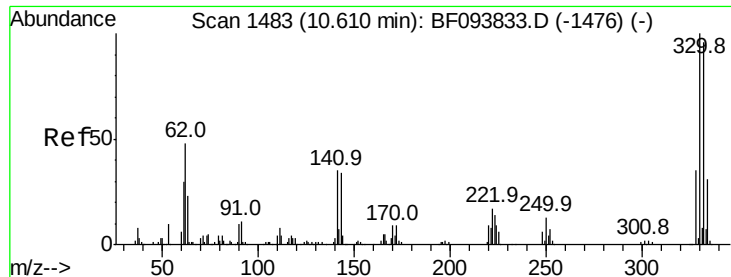
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.60 min Scan# 1312
Delta R.T. -0.04 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

Tgt Ion:164 Resp: 274679
Ion Ratio Lower Upper
164 100
162 103.5 82.6 123.8
160 44.7 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

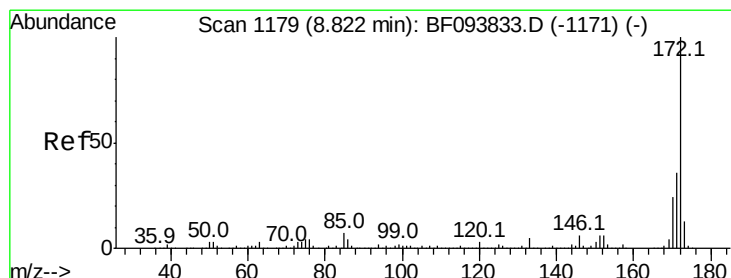
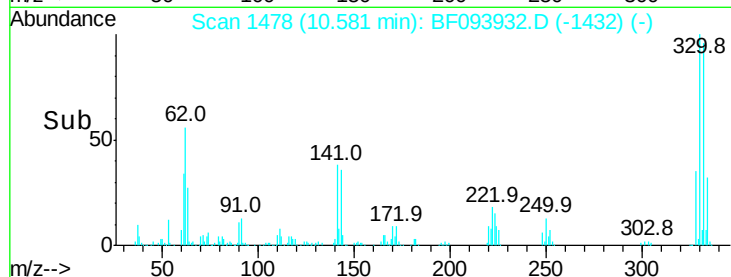
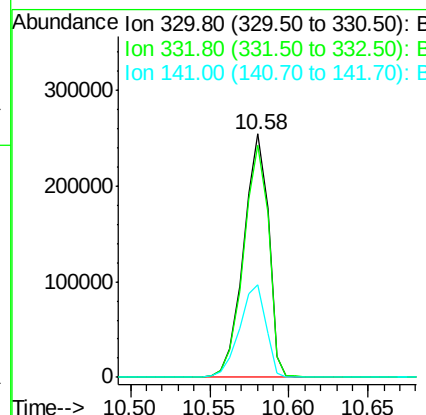
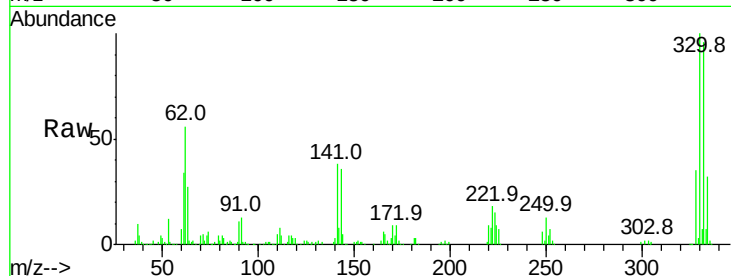




#41
 2,4,6-Tribromophenol
 Concen: 127.28 ng
 RT: 10.58 min Scan# 1478
 Delta R.T. -0.03 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

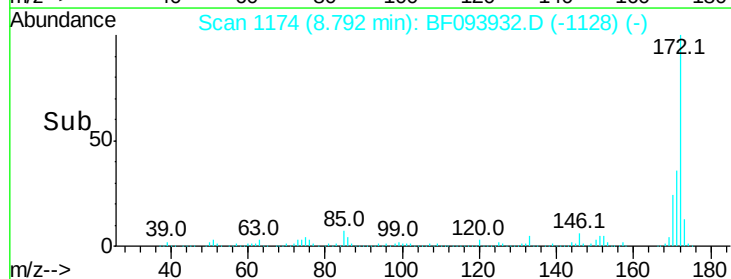
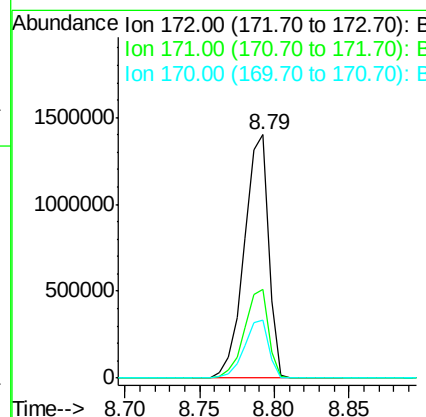
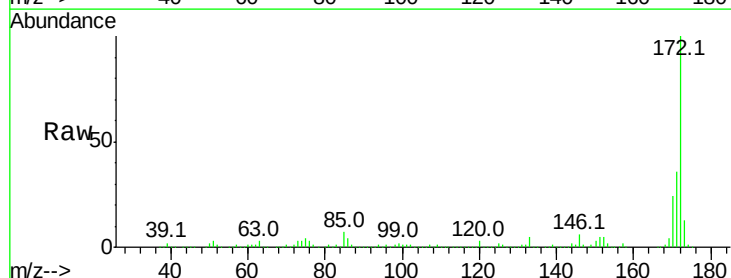
Instrument :
 BNA_F
 ClientSampleId :
 B-3

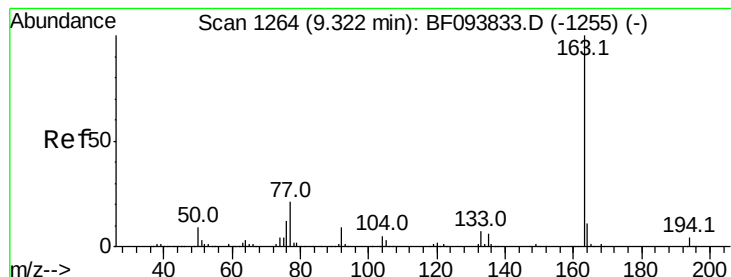
Tot Ion:330 Resp: 276273
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.6 115.0
 141 40.4 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 88.09 ng
 RT: 8.79 min Scan# 1174
 Delta R.T. -0.03 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

Tgt Ion:172 Resp: 1586416
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 24.0 19.8 29.8





#49

Dimethylphthalate

Concen: 9.14 ng

RT: 9.28 min Scan# 1257

Delta R.T. -0.04 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

BNA_F

ClientSampled :

B-3

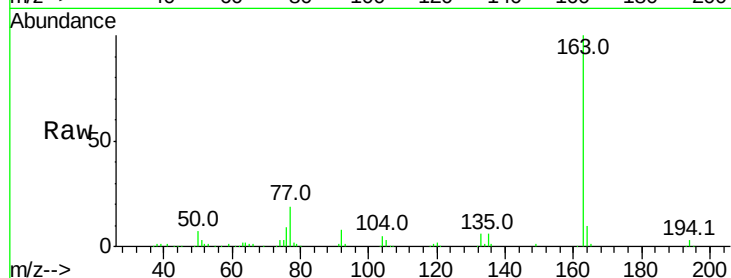
Tot Ion:163 Resp: 178452

Ion Ratio Lower Upper

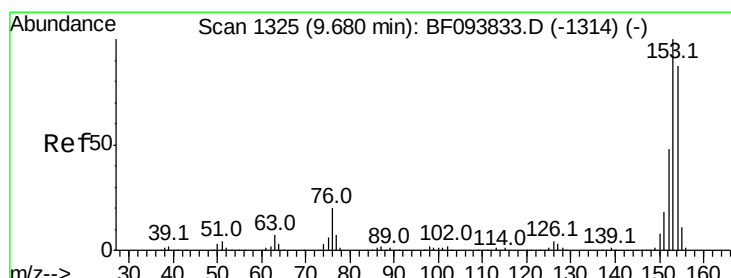
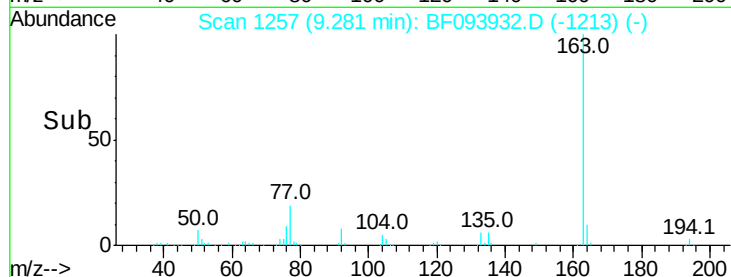
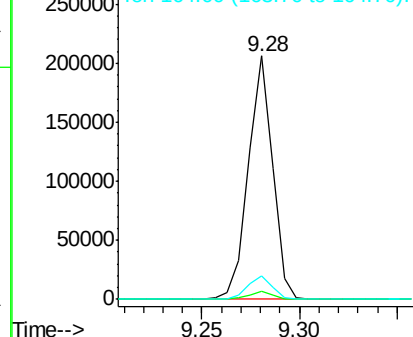
163 100

194 3.3 2.6 4.0

164 9.7 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 3.98 ng

RT: 9.65 min Scan# 1319

Delta R.T. -0.04 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

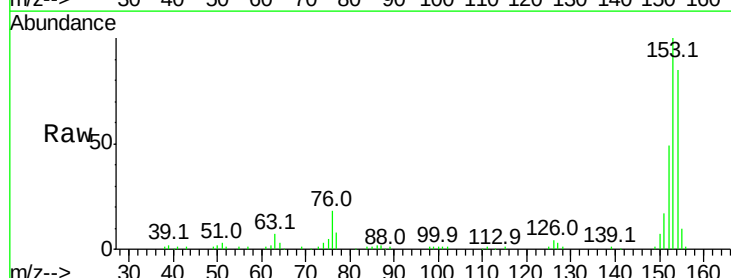
Tgt Ion:154 Resp: 66976

Ion Ratio Lower Upper

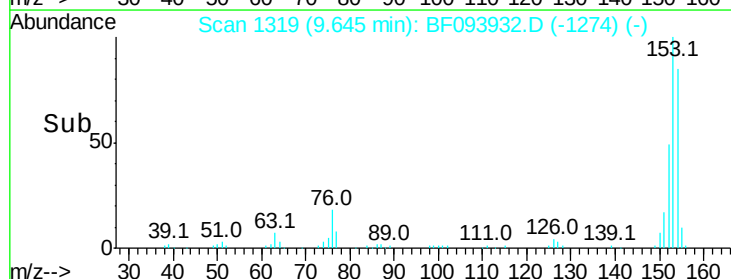
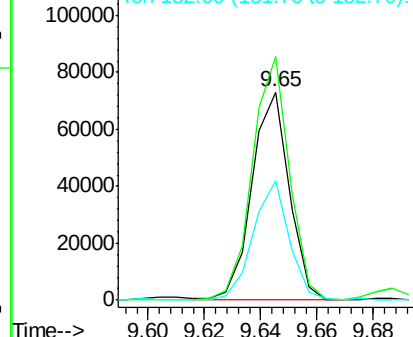
154 100

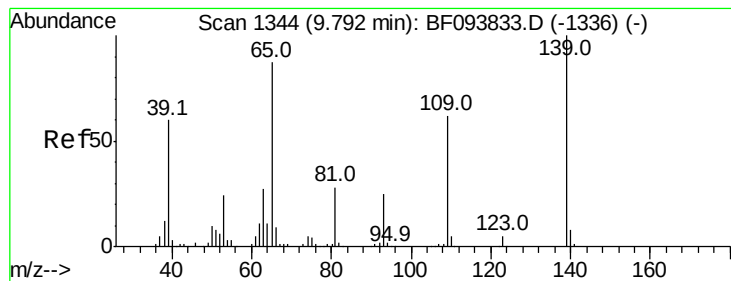
153 117.0 90.5 135.7

152 57.1 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





#55

4-Nitrophenol

Concen: 3.08 ng

RT: 9.86 min Scan# 1355

Delta R.T. 0.06 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

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ClientSampleId :

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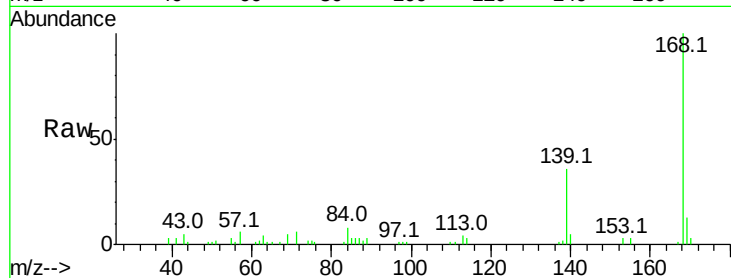
Tot Ion:139 Resp: 12658

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

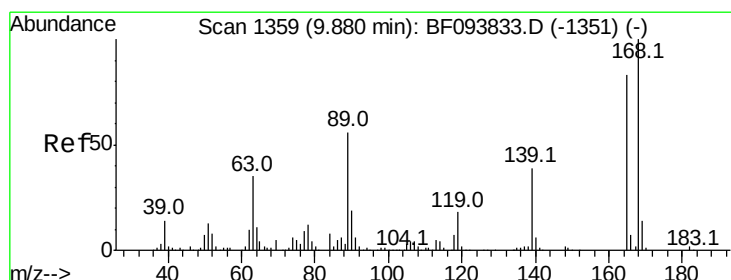
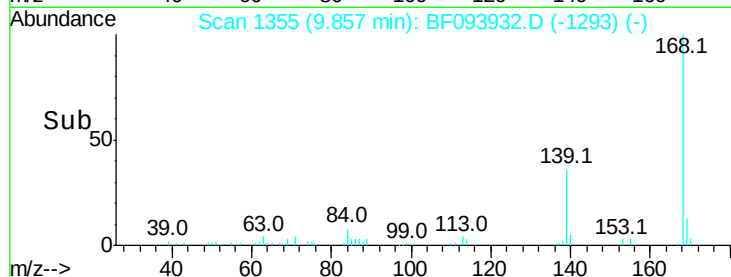
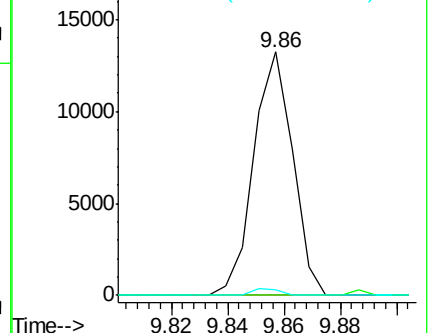
65 2.3 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E



#56

2,4-Dinitrotoluene

Concen: 6.42 ng

RT: 9.60 min Scan# 1312

Delta R.T. -0.28 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Tgt Ion:165 Resp: 36072

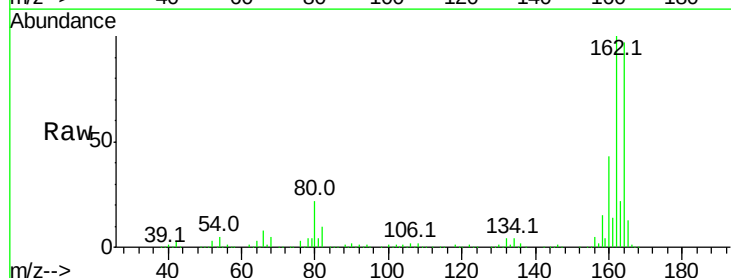
Ion Ratio Lower Upper

165 100

63 1.1 25.4 38.0#

89 1.2 46.4 69.6#

182 0.0 1.8 2.6#

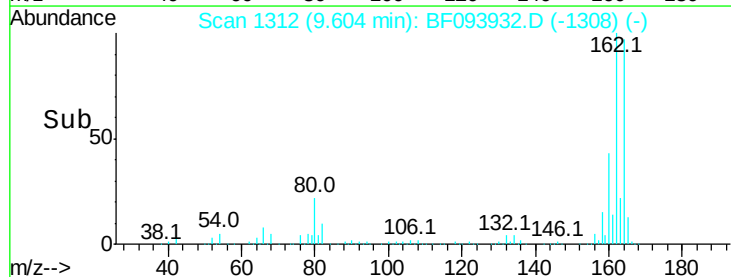
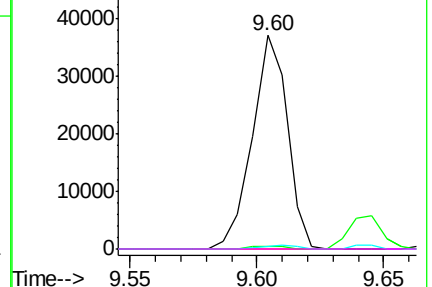


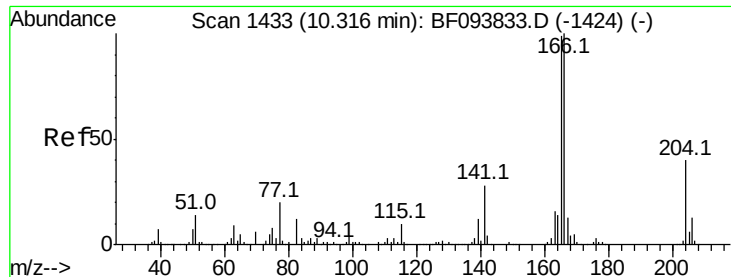
Abundance Ion 165.00 (164.70 to 165.70): E

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

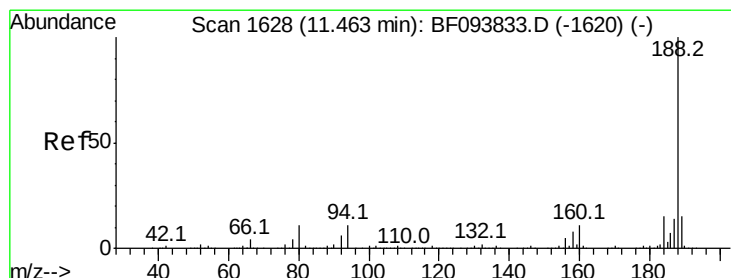
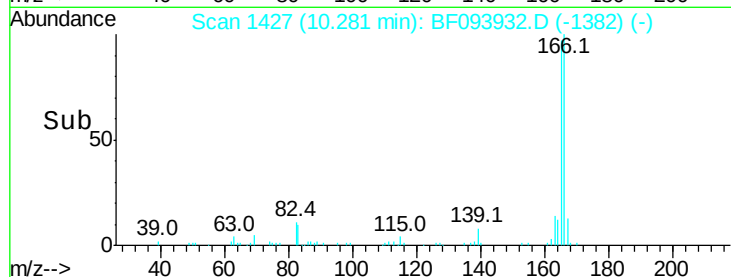
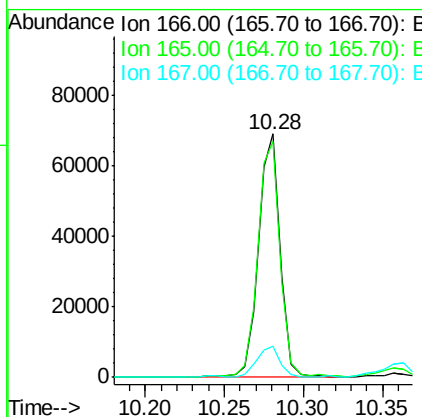
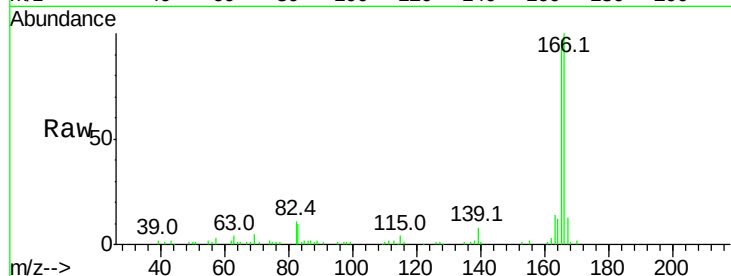




#57
Fluorene
 Concen: 3.46 ng
 RT: 10.28 min Scan# 1427
 Delta R.T. -0.04 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

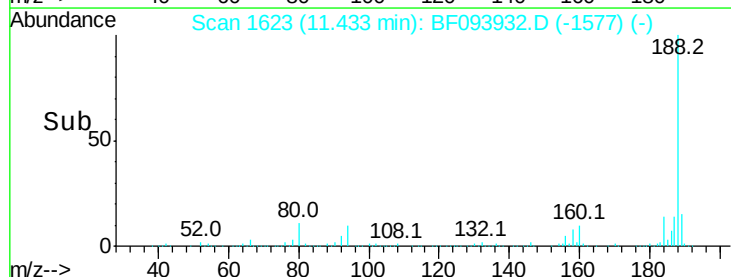
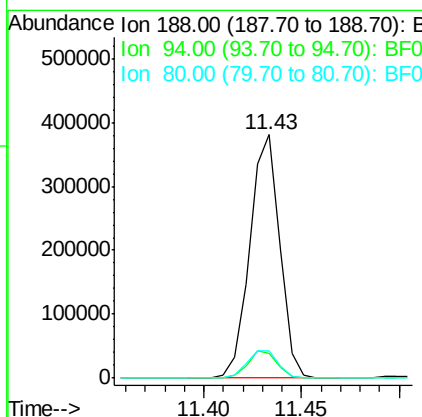
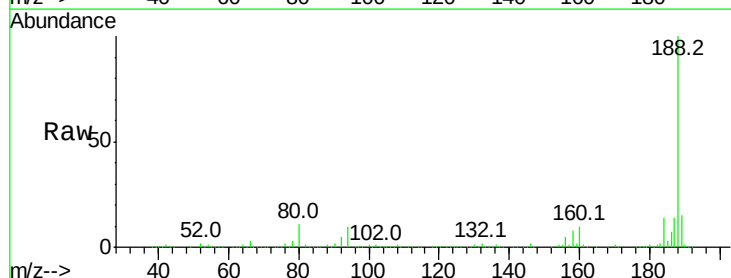
Instrument :
 BNA_F
 ClientSampleId :
 B-3

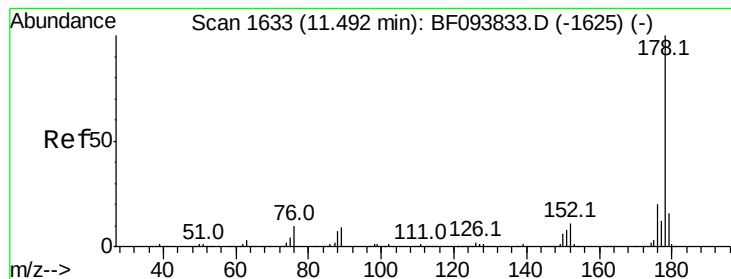
Tot Ion:166 Resp: 65725
 Ion Ratio Lower Upper
 166 100
 165 96.9 78.8 118.2
 167 12.6 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.43 min Scan# 1623
 Delta R.T. -0.03 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

Tgt Ion:188 Resp: 404441
 Ion Ratio Lower Upper
 188 100
 94 10.3 9.4 14.2
 80 11.1 10.2 15.2





#70

Phenanthrene

Concen: 35.47 ng

RT: 11.46 min Scan# 1628

Delta R.T. -0.03 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

BNA_F

ClientSampleId :

B-3

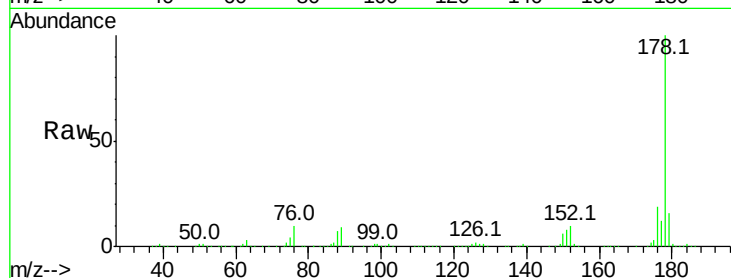
Tot Ion:178 Resp: 797941

Ion Ratio Lower Upper

178 100

176 19.2 16.2 24.4

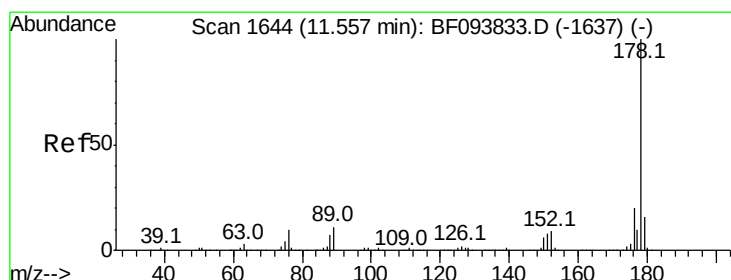
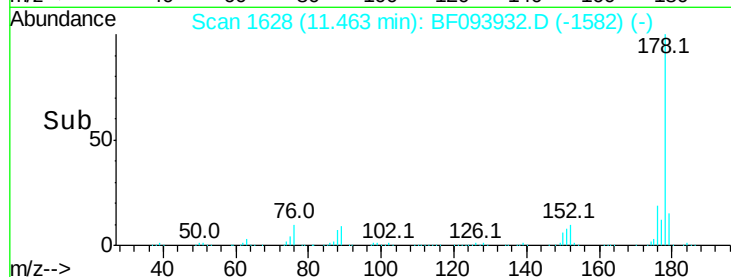
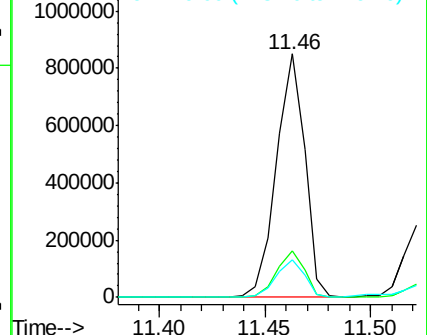
179 15.5 12.6 19.0



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: 9.90 ng

RT: 11.52 min Scan# 1638

Delta R.T. -0.04 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

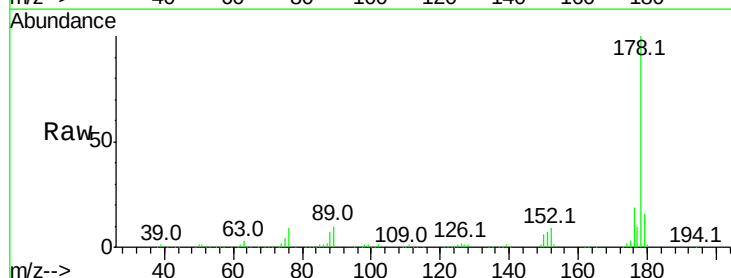
Tgt Ion:178 Resp: 229336

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

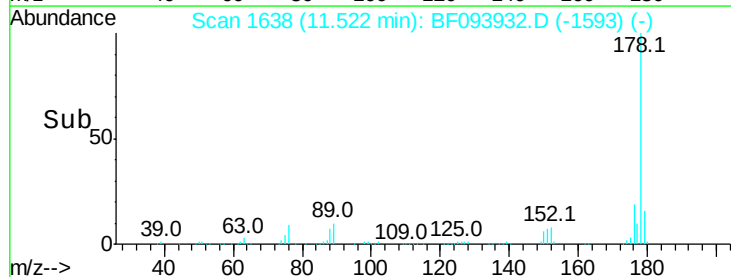
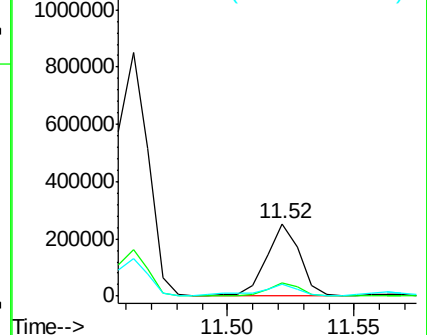
179 16.1 12.7 19.1

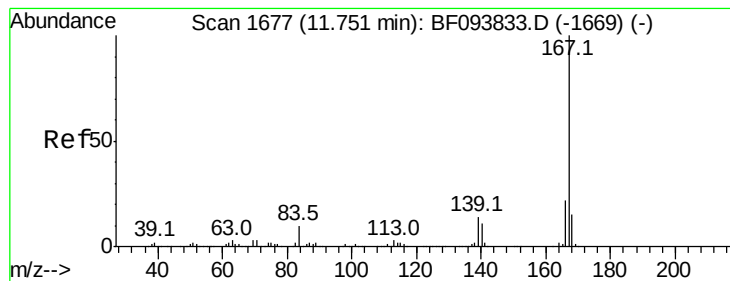


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.41 ng

RT: 11.72 min Scan# 1672

Delta R.T. -0.03 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

BNA_F

ClientSampleId :

B-3

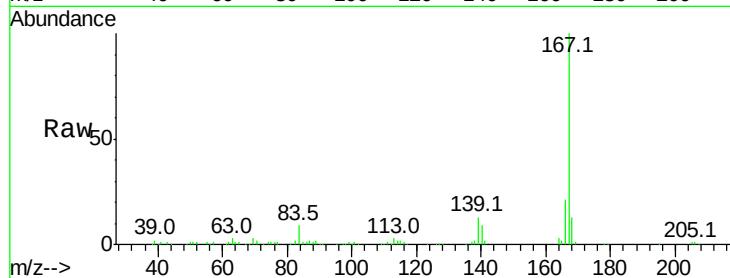
Tot Ion:167 Resp: 128539

Ion Ratio Lower Upper

167 100

166 21.3 18.1 27.1

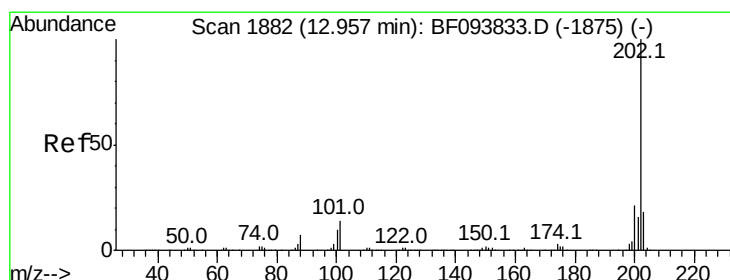
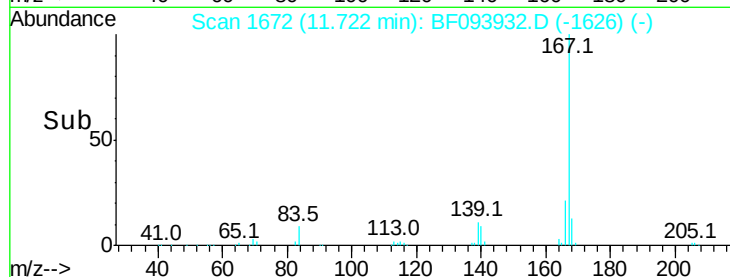
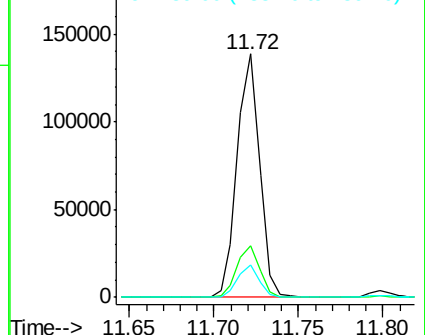
139 13.4 11.7 17.5



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: 50.18 ng

RT: 12.93 min Scan# 1877

Delta R.T. -0.03 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

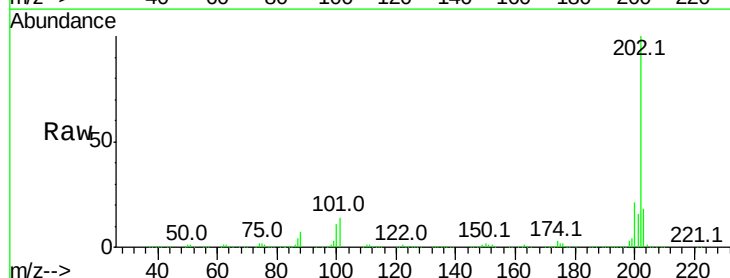
Tgt Ion:202 Resp: 1156040

Ion Ratio Lower Upper

202 100

101 14.4 0.0 33.2

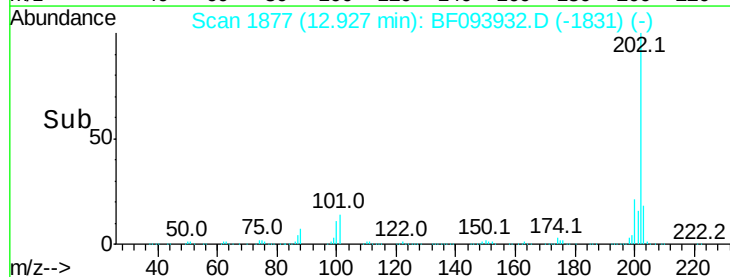
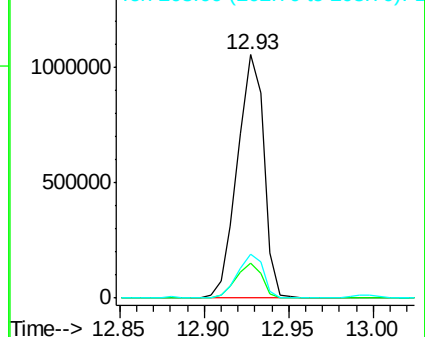
203 18.3 0.0 38.1

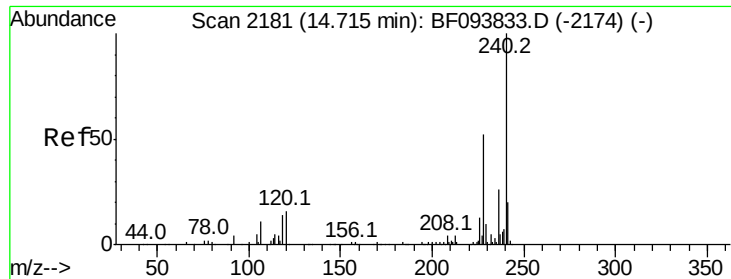


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

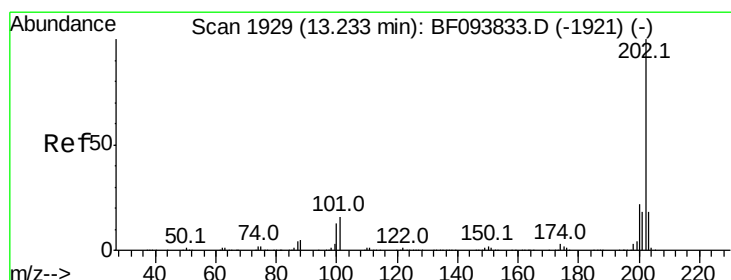
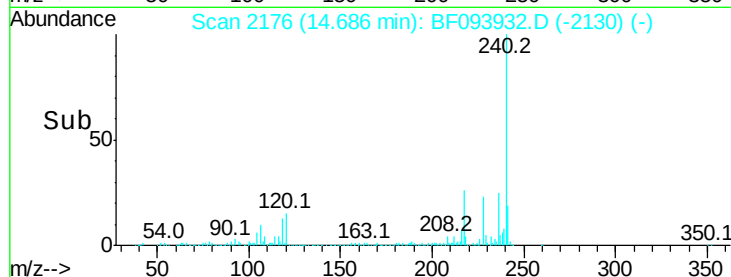
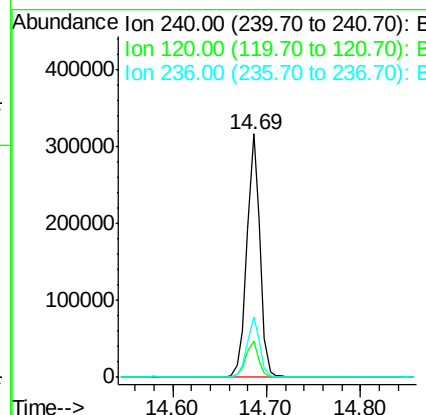
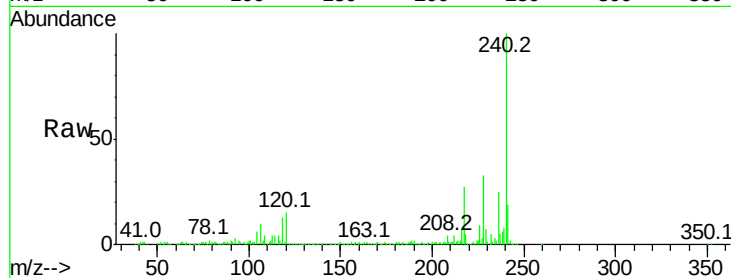




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.69 min Scan# 2176
 Delta R.T. -0.03 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

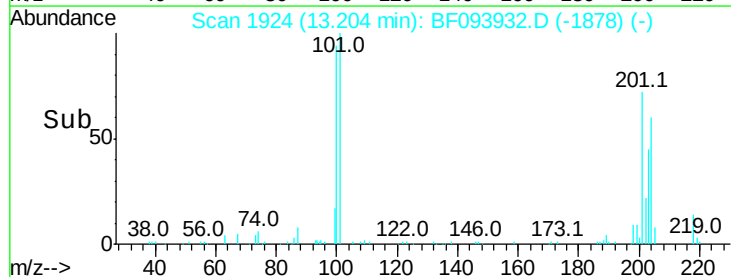
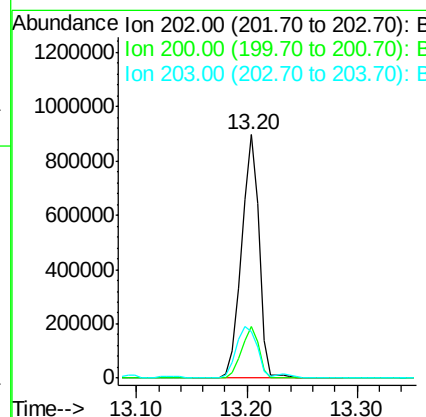
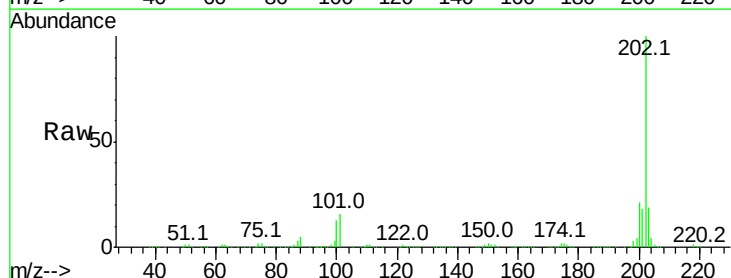
Instrument :
 BNA_F
 ClientSampleId :
 B-3

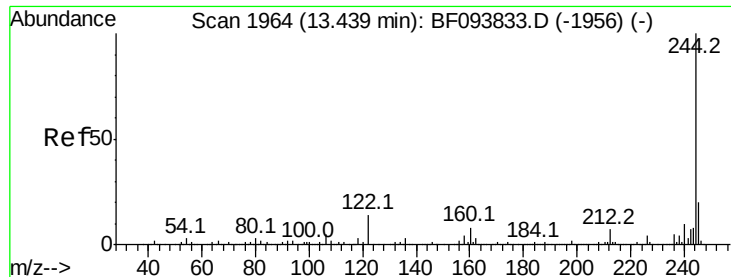
Tot Ion:240 Resp: 303535
 Ion Ratio Lower Upper
 240 100
 120 14.8 5.8 8.8#
 236 25.1 20.5 30.7



#77
 Pyrene
 Concen: 45.47 ng
 RT: 13.20 min Scan# 1924
 Delta R.T. -0.03 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

Tgt Ion:202 Resp: 1001693
 Ion Ratio Lower Upper
 202 100
 200 21.1 17.6 26.4
 203 19.2 14.4 21.6

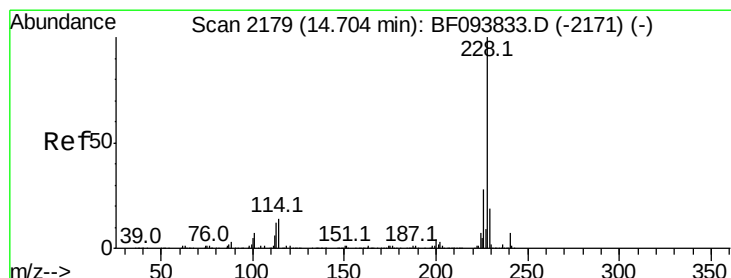
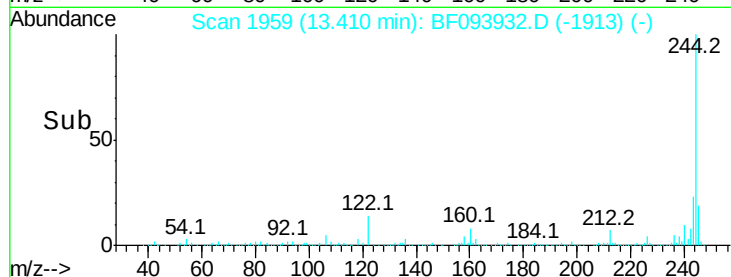
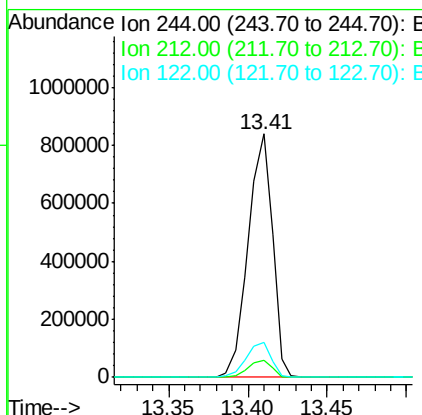
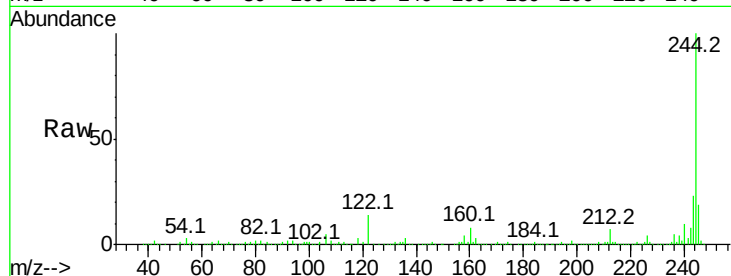




#78
 Terphenyl-d14
 Concen: 66.24 ng
 RT: 13.41 min Scan# 1959
 Delta R.T. -0.03 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

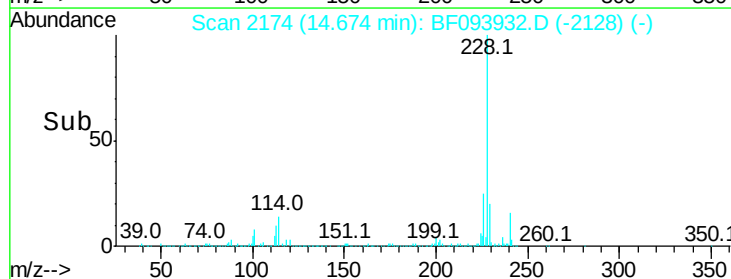
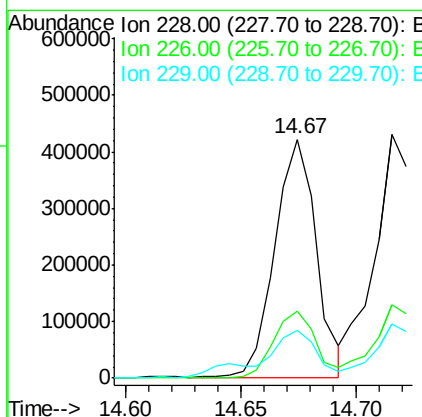
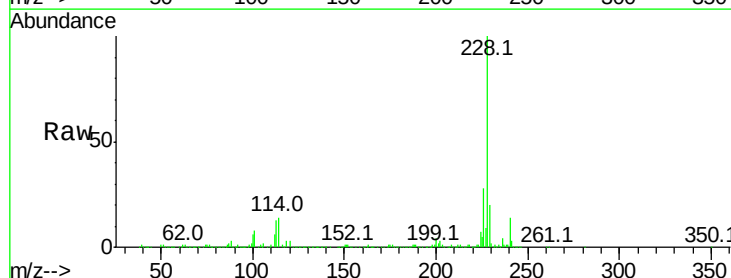
Instrument :
 BNA_F
 ClientSampled :
 B-3

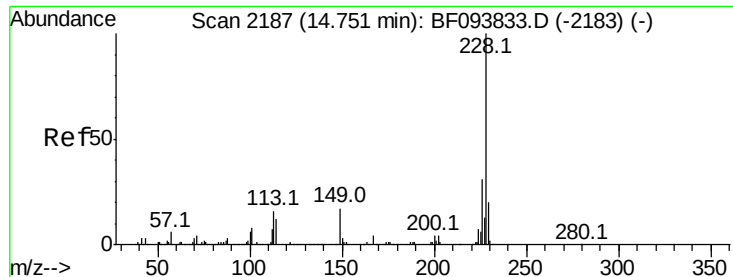
Tot Ion:244 Resp: 896937
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 14.3 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 29.61 ng
 RT: 14.67 min Scan# 2174
 Delta R.T. -0.03 min
 Lab File: BF093932.D
 Acq: 25 Mar 2017 3:03

Tgt Ion:228 Resp: 524021
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.6 33.8
 229 20.3 16.3 24.5





#82

Chrysene

Concen: 30.29 ng

RT: 14.72 min Scan# 2181

Delta R.T. -0.04 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

BNA_F

ClientSampleId :

B-3

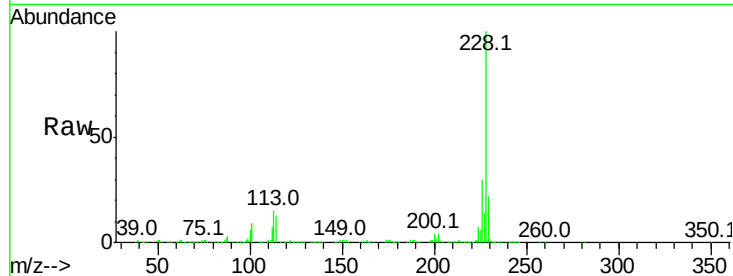
Tot Ion:228 Resp: 497607

Ion Ratio Lower Upper

228 100

226 30.1 24.9 37.3

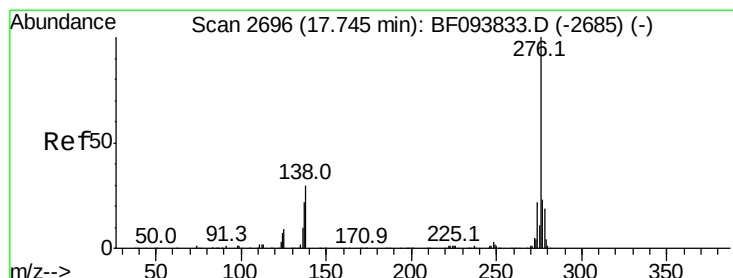
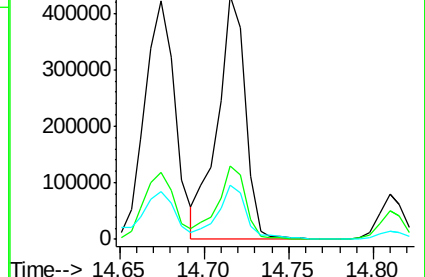
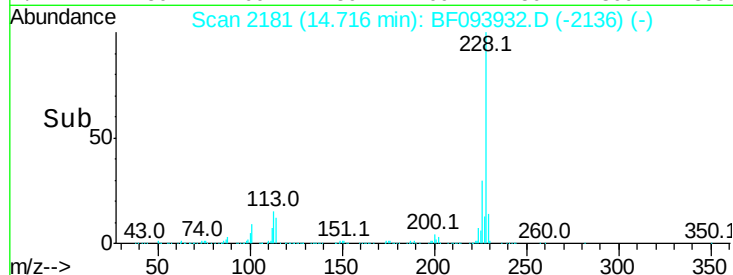
229 22.2 15.8 23.6



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: 12.04 ng

RT: 17.70 min Scan# 2688

Delta R.T. -0.05 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

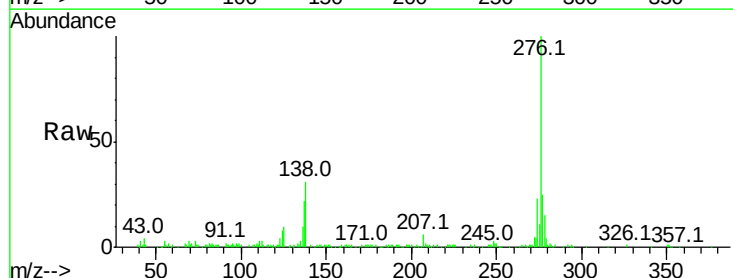
Tgt Ion:276 Resp: 171274

Ion Ratio Lower Upper

276 100

138 30.4 27.8 41.6

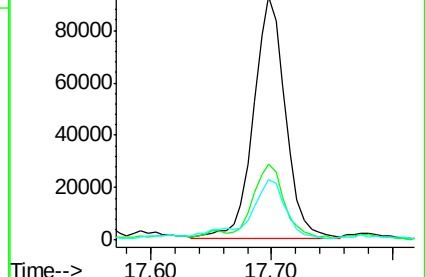
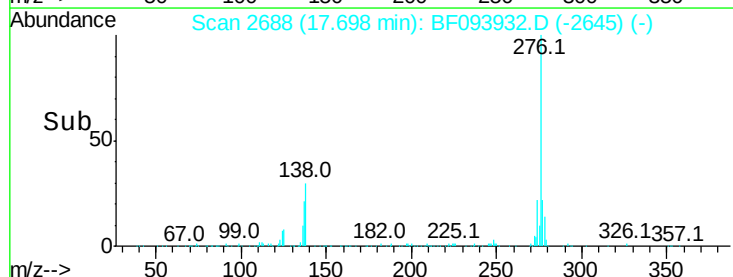
277 28.0 20.2 30.4

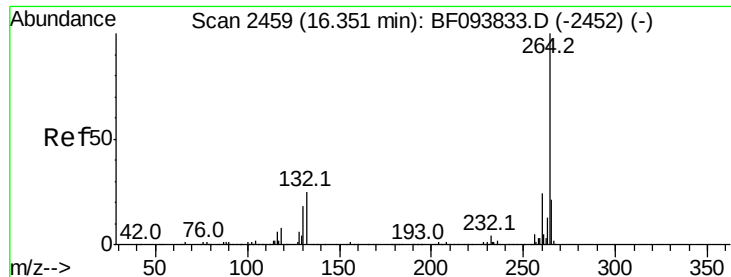


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

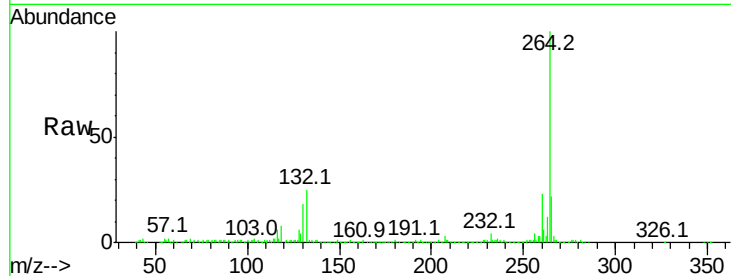




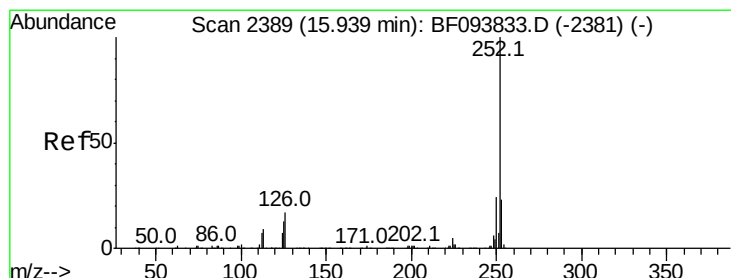
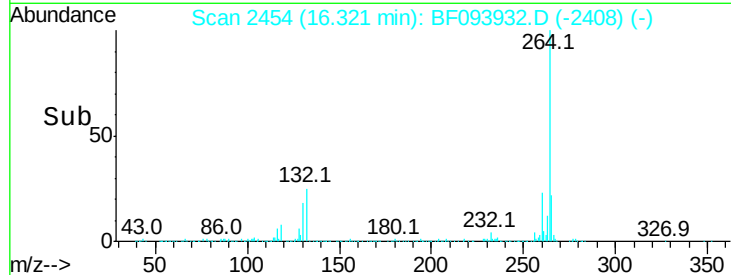
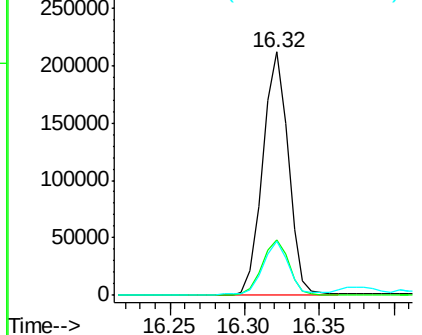
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.32 min Scan# 2454
Delta R.T. -0.03 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

Instrument :
BNA_F
ClientSampled :
B-3

Tot Ion:264 Resp: 252270
Ion Ratio Lower Upper
264 100
260 23.0 19.5 29.3
265 22.2 17.2 25.8

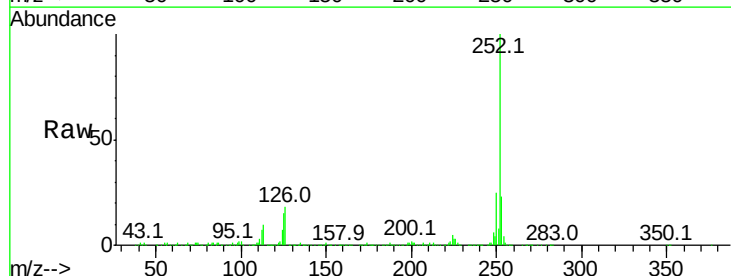


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

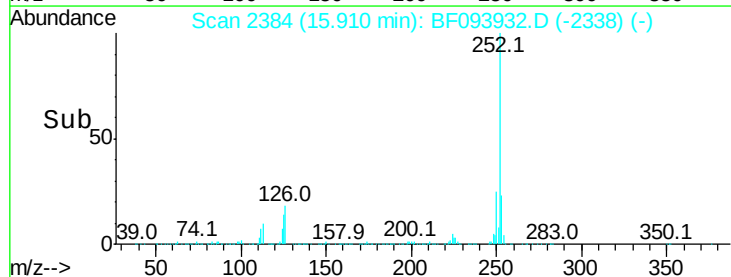
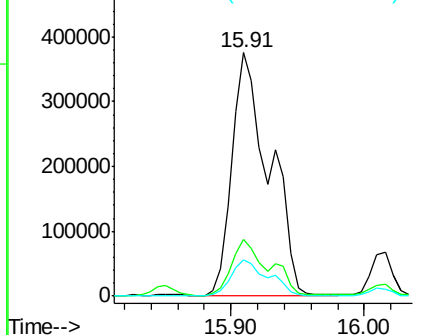


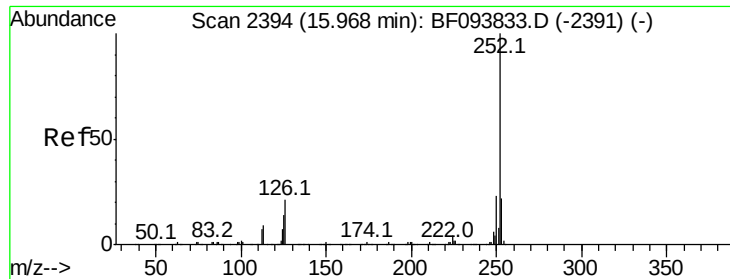
#87
Benzo(b)fluoranthene
Concen: 47.38 ng
RT: 15.91 min Scan# 2384
Delta R.T. -0.03 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

Tgt Ion:252 Resp: 732682
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 14.8 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

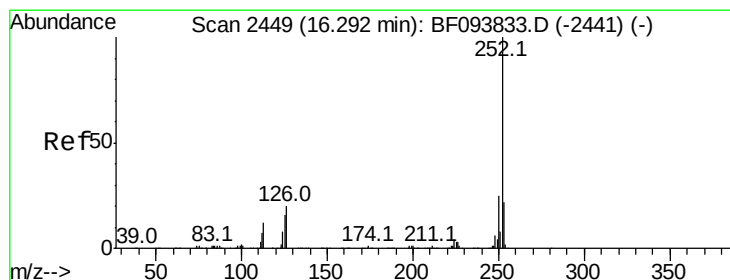
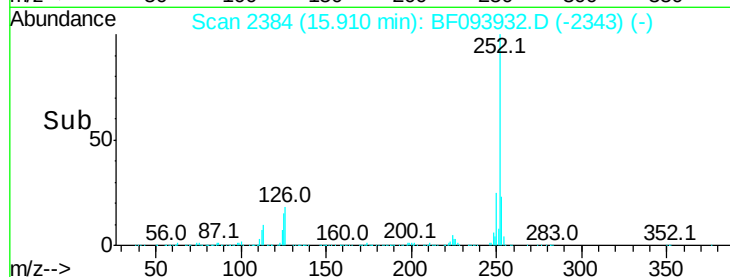
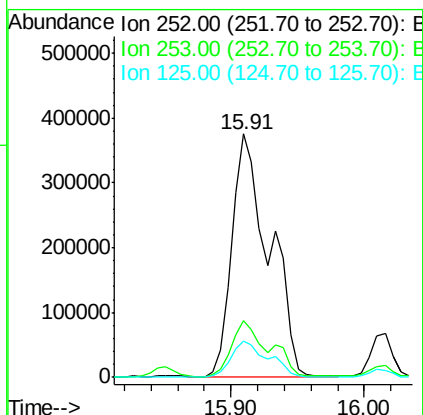
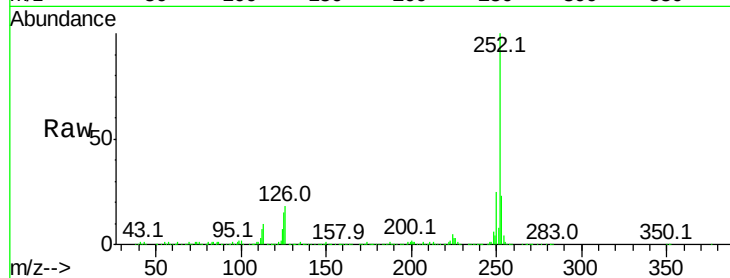




#88
Benzo(k)fluoranthene
Concen: 48.43 ng
RT: 15.91 min Scan# 2384
Delta R.T. -0.06 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

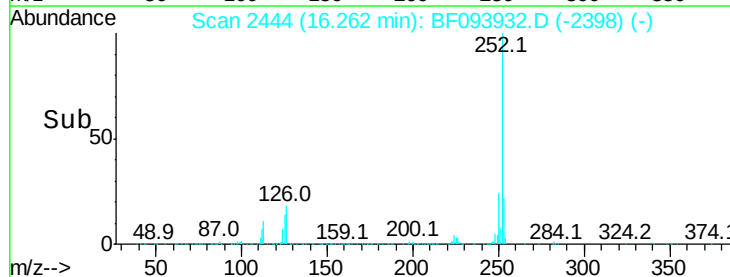
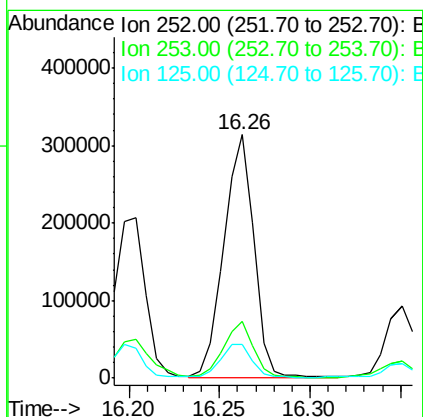
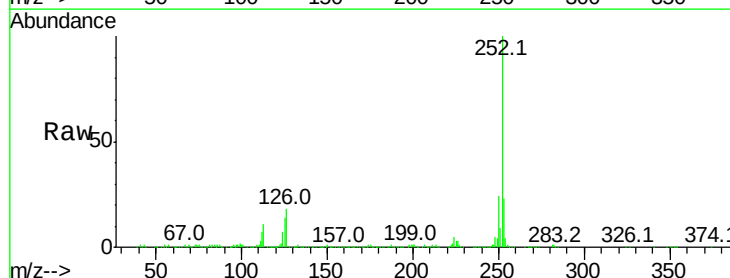
Instrument :
BNA_F
ClientSampleId :
B-3

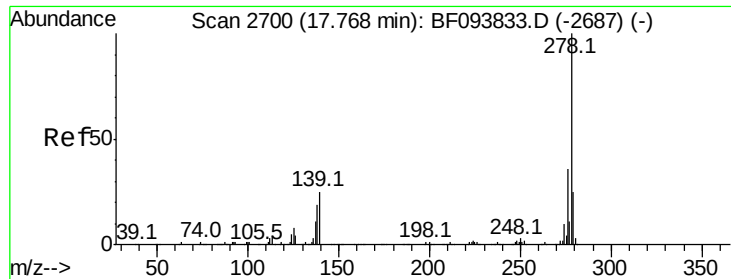
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	14.8	13.1	19.7



#89
Benzo(a)pyrene
Concen: 25.34 ng
RT: 16.26 min Scan# 2444
Delta R.T. -0.03 min
Lab File: BF093932.D
Acq: 25 Mar 2017 3:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	13.9	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 4.02 ng

RT: 17.71 min Scan# 2690

Delta R.T. -0.06 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Instrument :

BNA_F

ClientSampleId :

B-3

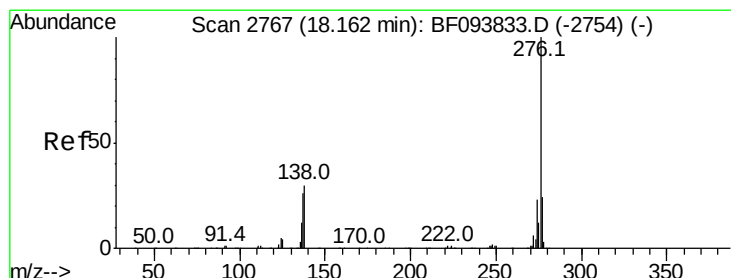
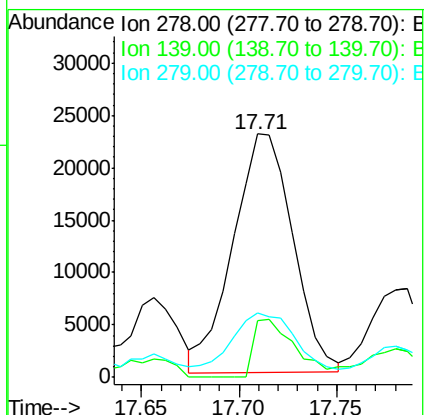
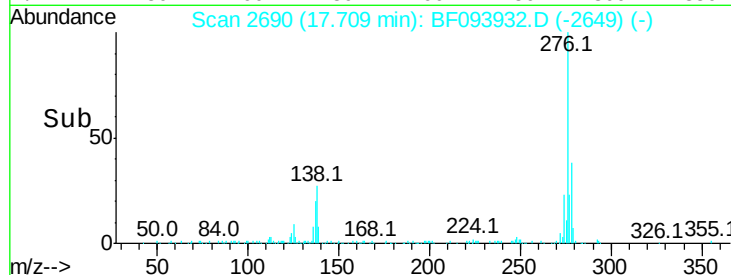
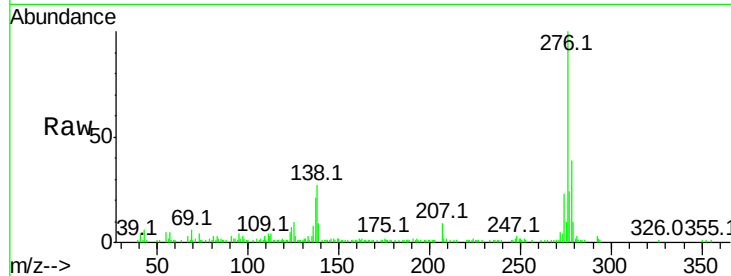
Tot Ion:278 Resp: 48450

Ion Ratio Lower Upper

278 100

139 23.4 16.6 24.8

279 26.3 19.3 28.9



#91

Benzo(g,h,i)perylene

Concen: 12.46 ng

RT: 18.10 min Scan# 2757

Delta R.T. -0.06 min

Lab File: BF093932.D

Acq: 25 Mar 2017 3:03

Tgt Ion:276 Resp: 151390

Ion Ratio Lower Upper

276 100

277 23.7 18.6 28.0

138 31.1 25.4 38.0

