

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031617\
 Data File : BF093719.D
 Acq On : 16 Mar 2017 21:13
 Operator : SJ/MA
 Sample : I2266-02
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP7

Quant Time: Mar 17 00:58:51 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	185847	20.00	ng	-0.02
21) Naphthalene-d8	7.99	136	743327	20.00	ng	-0.02
38) Acenaphthene-d10	9.74	164	324266	20.00	ng	-0.02
63) Phenanthrene-d10	11.22	188	561801	20.00	ng	-0.02
75) Chrysene-d12	13.85	240	387512	20.00	ng	-0.03
86) Perylene-d12	15.26	264	313101	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	1316527	117.90	ng	-0.02
7) Phenol-d6	6.36	99	1650209	117.19	ng	-0.02
23) Nitrobenzene-d5	7.27	82	998009	74.49	ng	-0.03
41) 2,4,6-Tribromophenol	10.54	330	288267	136.45	ng	-0.01
44) 2-Fluorobiphenyl	9.06	172	1251654	71.80	ng	-0.02
78) Terphenyl-d14	12.80	244	998643	67.00	ng	-0.02

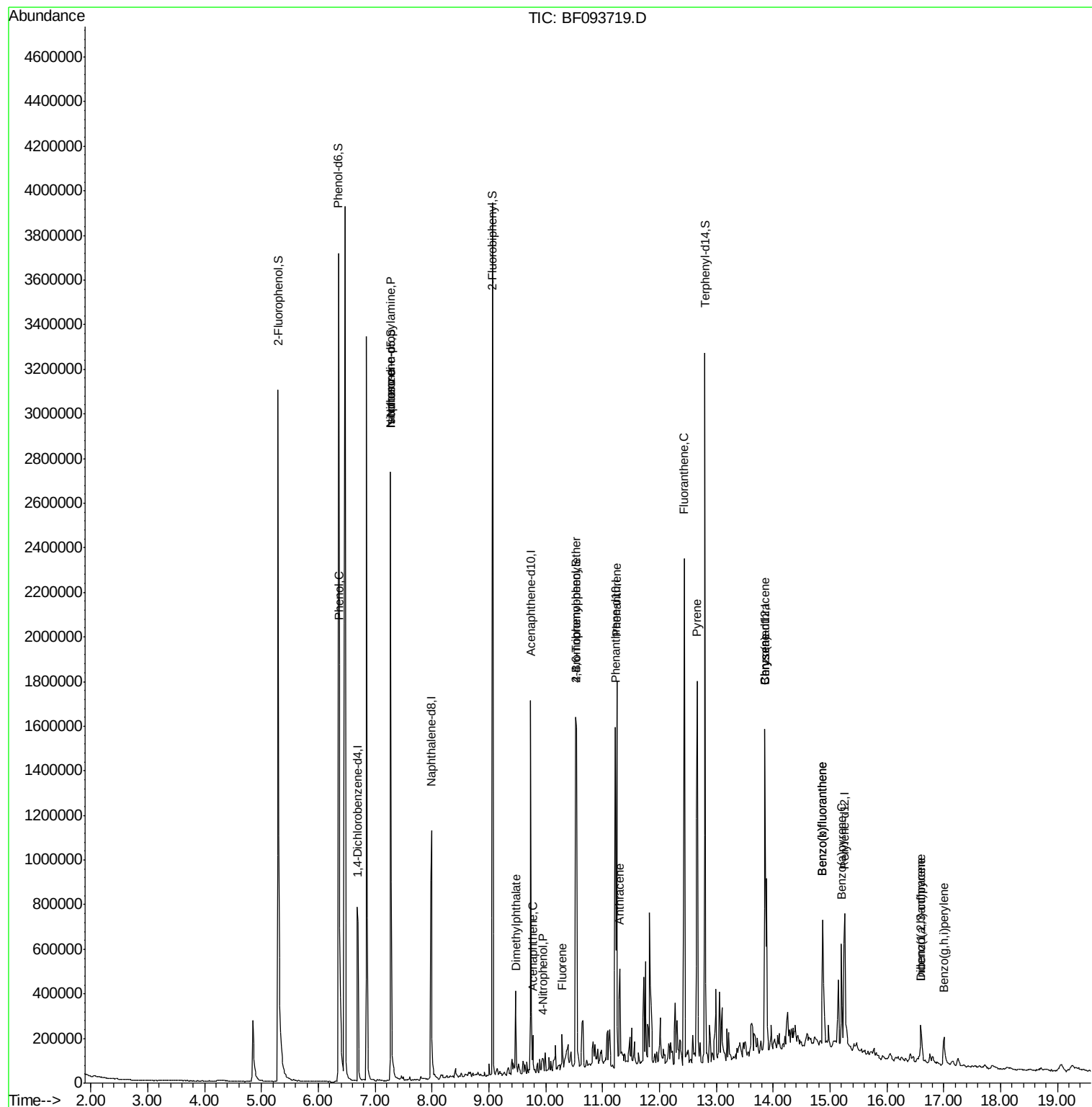
Target Compounds				Qvalue		
9) Benzaldehyde	6.36	77	3525	Below Cal	#	15
10) Phenol	6.37	94	133849	7.76	ng	85
19) n-Nitroso-di-n-propylamine	7.27	70	134287	13.87	ng	# 83
25) Isophorone	7.27	82	970039	35.91	ng	# 65
49) Dimethylphthalate	9.48	163	187591	8.73	ng	99
51) Acenaphthene	9.77	154	36671	2.08	ng	98
55) 4-Nitrophenol	9.96	139	8686	3.16	ng	# 17
57) Fluorene	10.29	166	42260	2.26	ng	99
66) 4-Bromophenyl-phenylether	10.54	248	20302	3.42	ng	# 1
70) Phenanthrene	11.25	178	686291	21.40	ng	98
71) Anthracene	11.30	178	251328	7.75	ng	97
74) Fluoranthene	12.44	202	938822	30.31	ng	95
77) Pvrene	12.67	202	885183	31.41	ng	99
80) Benzo(a)anthracene	13.85	228	371722	16.24	ng	99
82) Chrysene	13.85	228	371722	17.56	ng	96
85) Indeno(1,2,3-cd)pyrene	16.60	276	114762	6.48	ng	97
87) Benzo(b)fluoranthene	14.87	252	379339	19.89	ng	99
88) Benzo(k)fluoranthene	14.87	252	379339	20.63	ng	97
89) Benzo(a)pvrene	15.20	252	213923	12.28	ng	99
90) Dibenzo(a,h)anthracene	16.60	278	40438	2.80	ng	# 86
91) Benzo(g,h,i)perylene	17.01	276	110415	7.46	ng	# 88

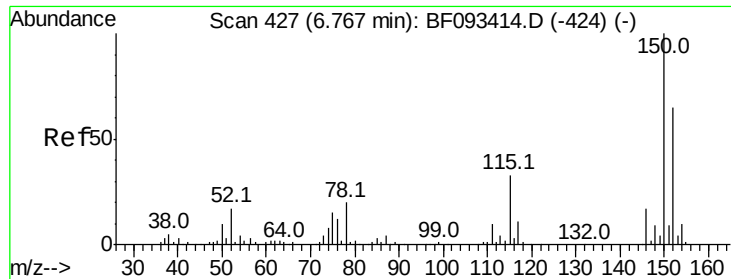
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 421

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

BNA_F

ClientSampled :

TP7

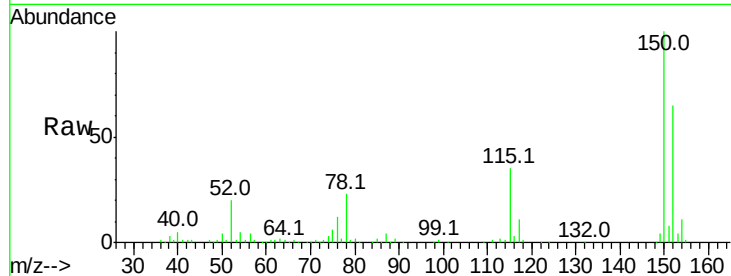
Tot Ion:152 Resp: 185847

Ion Ratio Lower Upper

152 100

150 153.5 124.9 187.3

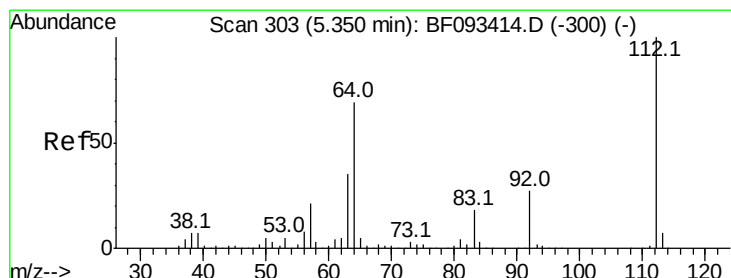
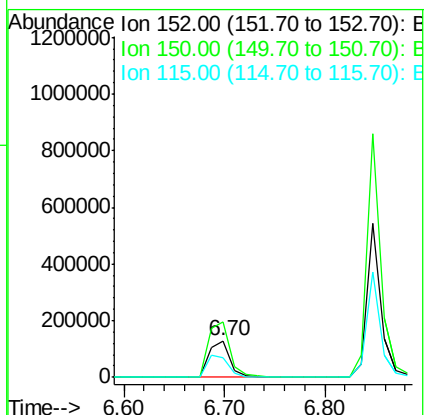
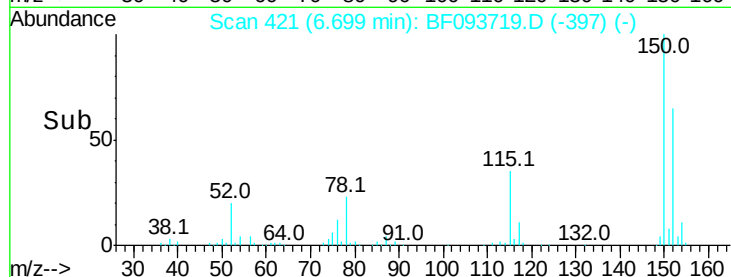
115 54.3 46.0 69.0



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: 117.90 ng

RT: 5.29 min Scan# 298

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

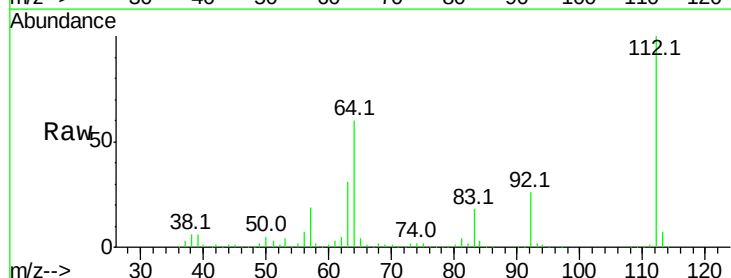
Tgt Ion:112 Resp: 1316527

Ion Ratio Lower Upper

112 100

64 60.4 46.1 69.1

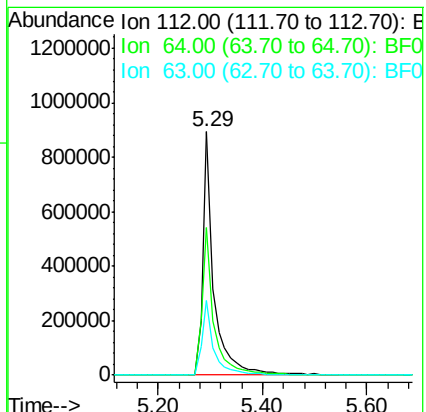
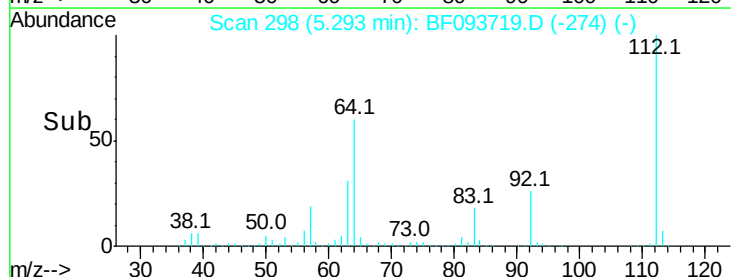
63 30.6 23.8 35.6

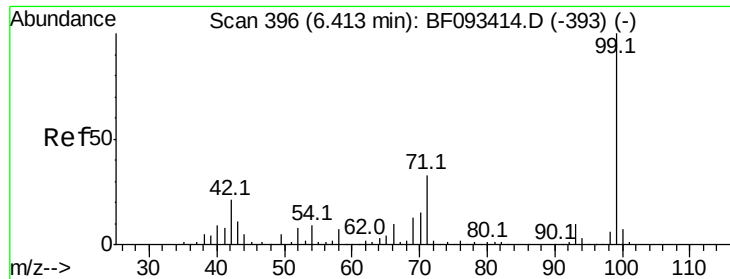


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 117.19 ng

RT: 6.36 min Scan# 391

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

BNA_F

ClientSampleId :

TP7

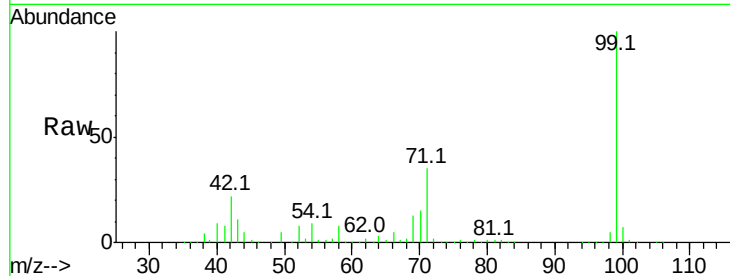
Tot Ion: 99 Resp: 1650209

Ion Ratio Lower Upper

99 100

42 22.2 15.6 23.4

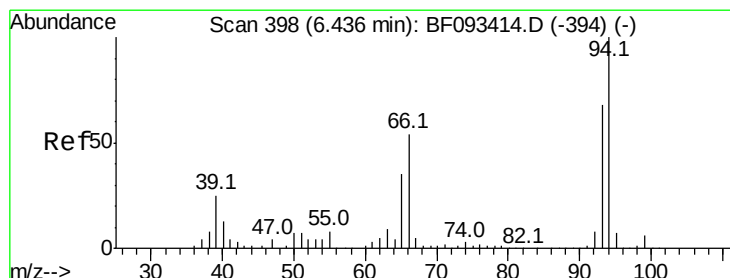
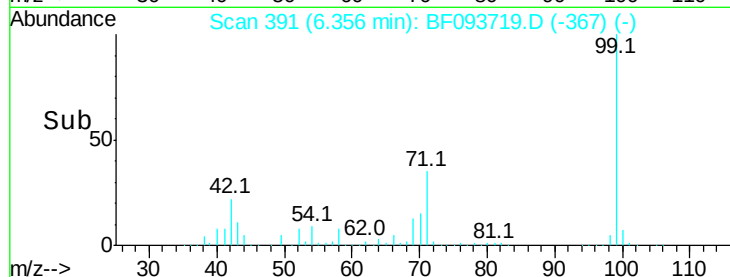
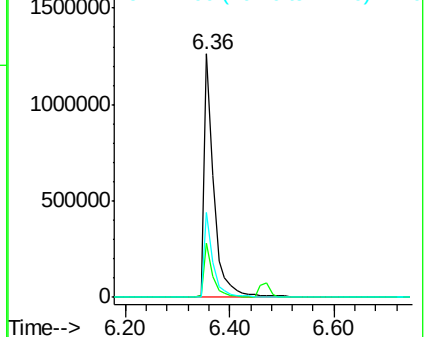
71 34.7 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 7.76 ng

RT: 6.37 min Scan# 392

Delta R.T. -0.03 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

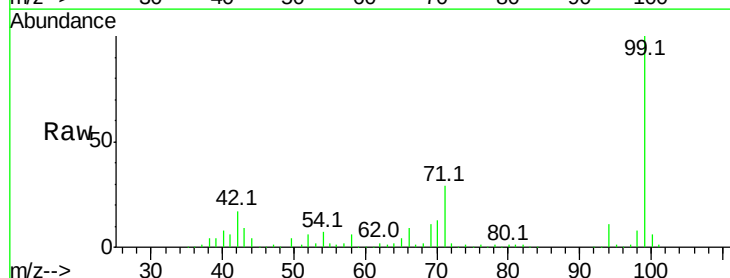
Tgt Ion: 94 Resp: 133849

Ion Ratio Lower Upper

94 100

65 38.0 21.4 61.4

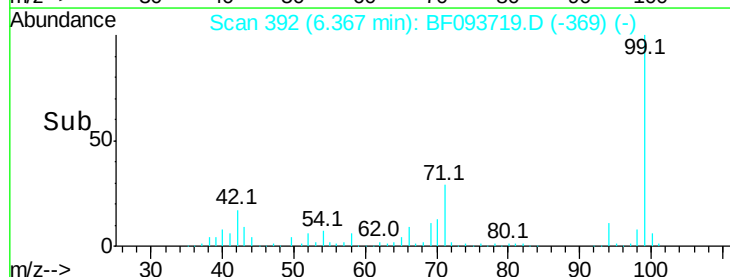
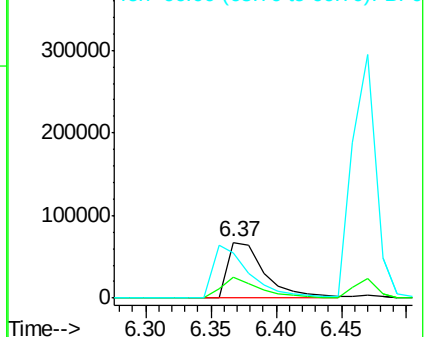
66 80.7 44.0 84.0

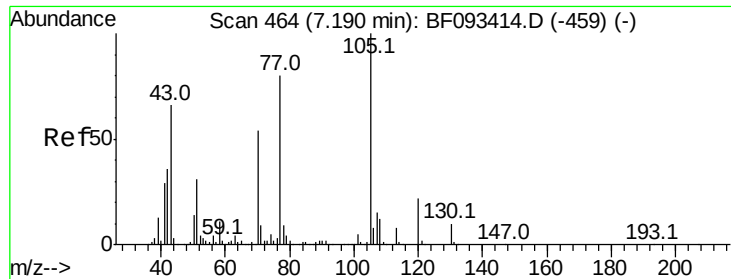


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 13.87 ng

RT: 7.27 min Scan# 471

Delta R.T. 0.13 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

BNA_F

ClientSampleId :

TP7

Tot Ion: 70 Resp: 134287

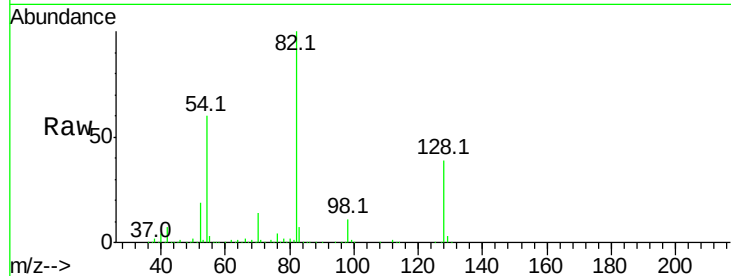
Ion Ratio Lower Upper

70 100

42 53.8 49.4 74.0

101 0.0 7.4 11.2#

130 2.1 14.2 21.4#

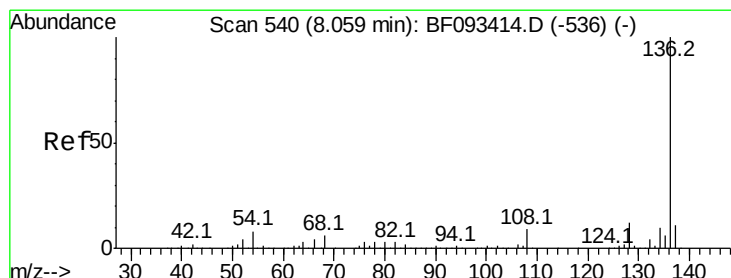
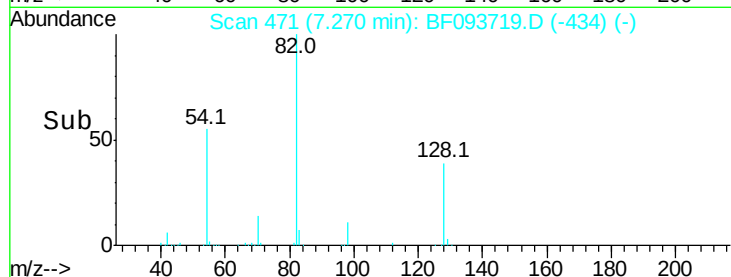
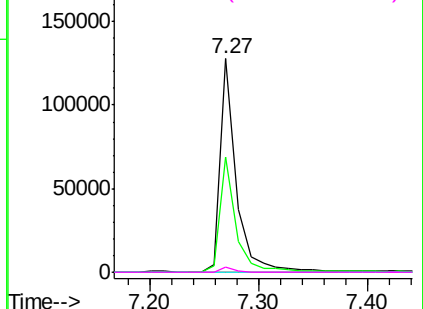


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.99 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Tgt Ion:136 Resp: 743327

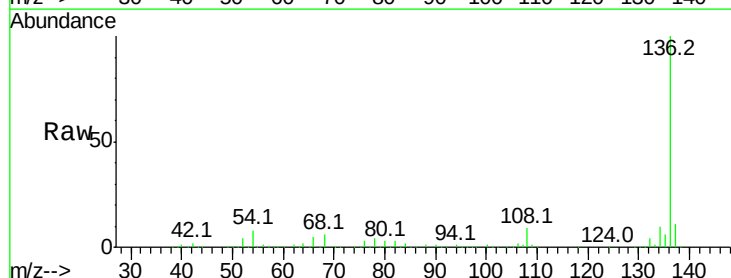
Ion Ratio Lower Upper

136 100

137 10.7 8.4 12.6

54 8.5 4.5 6.7#

68 6.1 3.6 5.4#

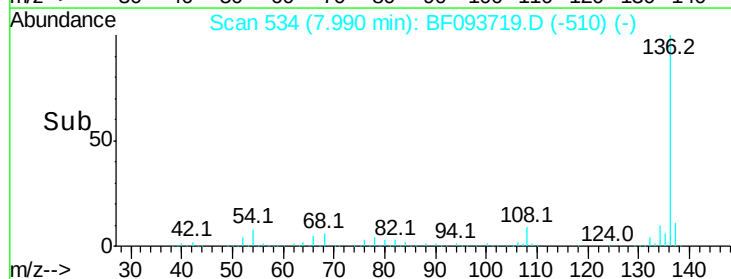
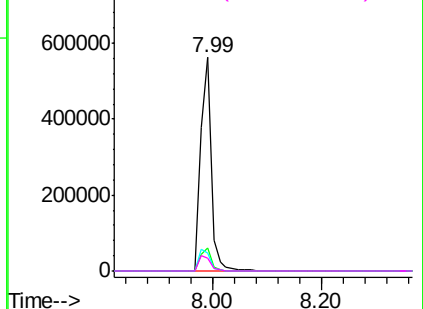


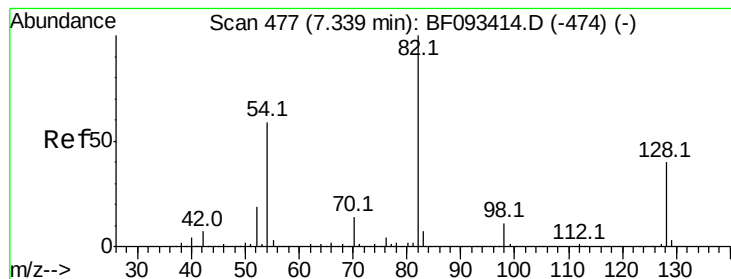
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 74.49 ng

RT: 7.27 min Scan# 471

Delta R.T. -0.03 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

BNA_F

ClientSampled :

TP7

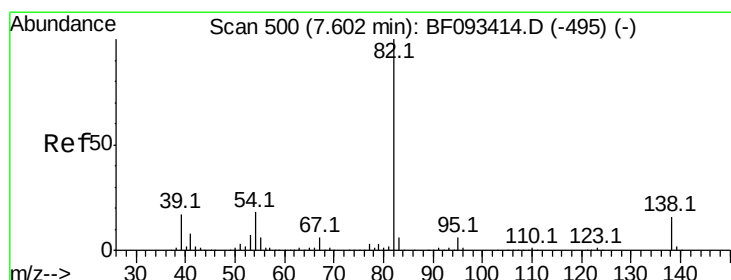
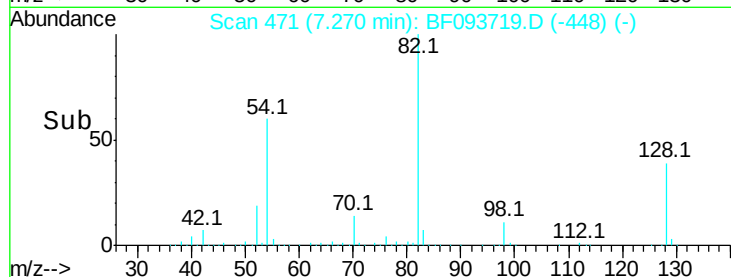
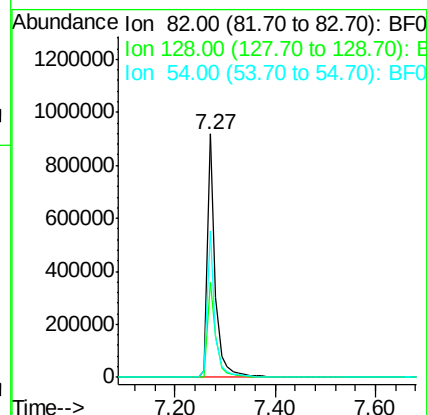
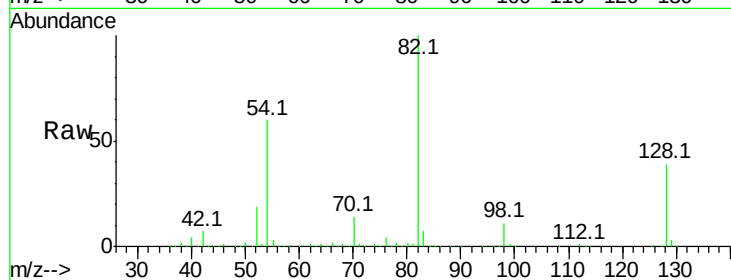
Tot Ion: 82 Resp: 998009

Ion Ratio Lower Upper

82 100

128 39.1 34.6 52.0

54 60.2 39.5 59.3#



#25

Isophorone

Concen: 35.91 ng

RT: 7.27 min Scan# 471

Delta R.T. -0.29 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

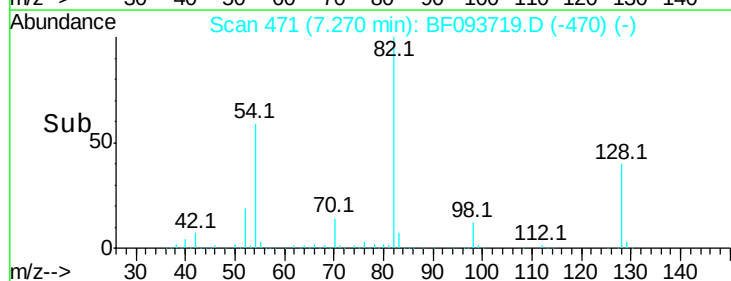
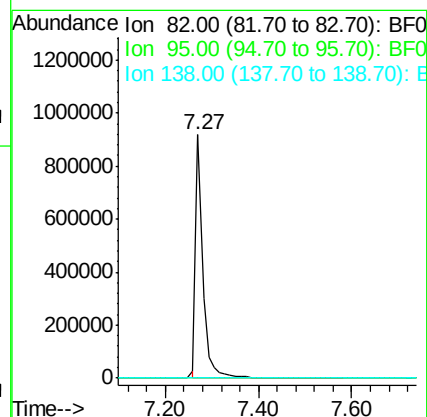
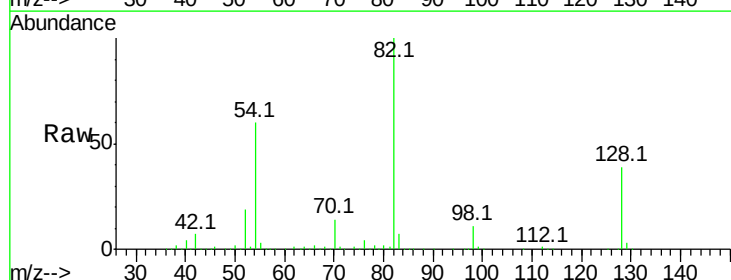
Tgt Ion: 82 Resp: 970039

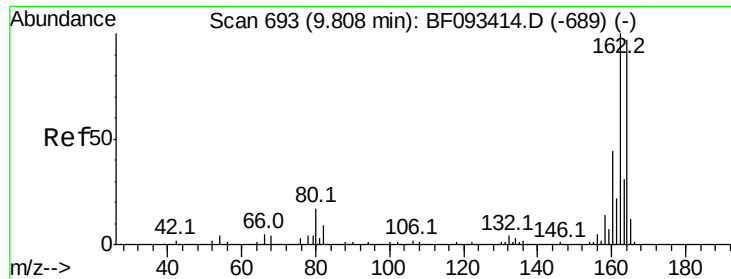
Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.74 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

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ClientSampled :

TP7

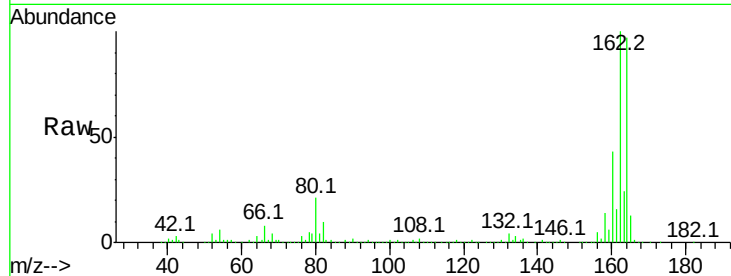
Tot Ion:164 Resp: 324266

Ion Ratio Lower Upper

164 100

162 103.1 80.2 120.2

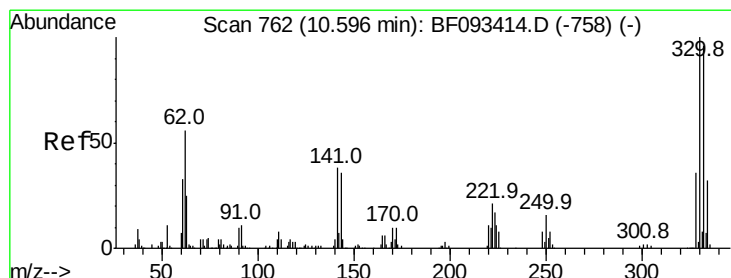
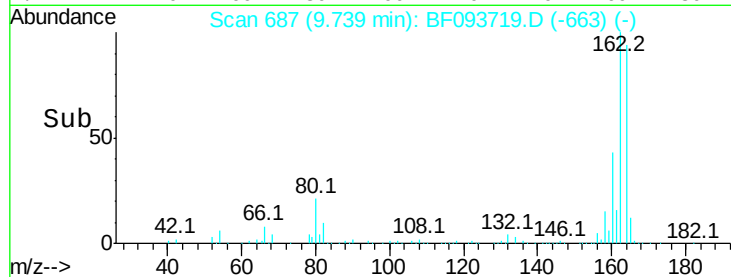
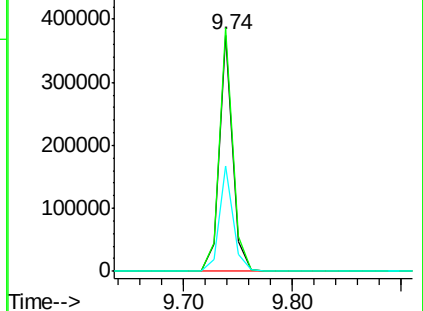
160 44.7 36.9 55.3



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: 136.45 ng

RT: 10.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

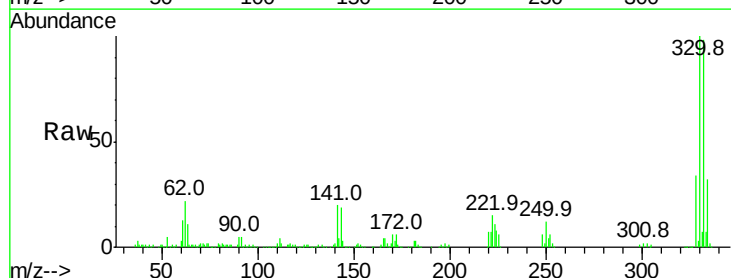
Tgt Ion:330 Resp: 288267

Ion Ratio Lower Upper

330 100

332 96.6 77.4 116.2

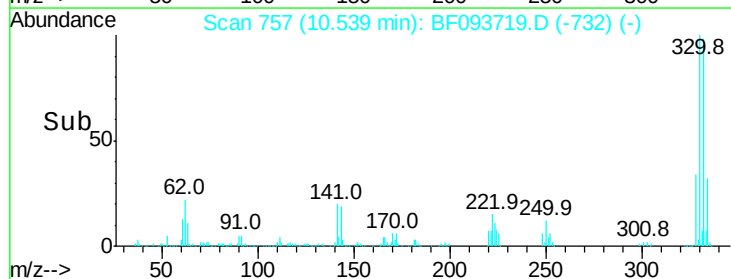
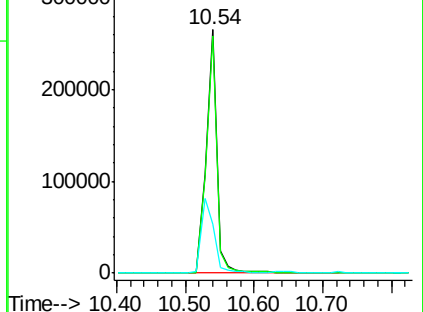
141 34.6 34.1 51.1

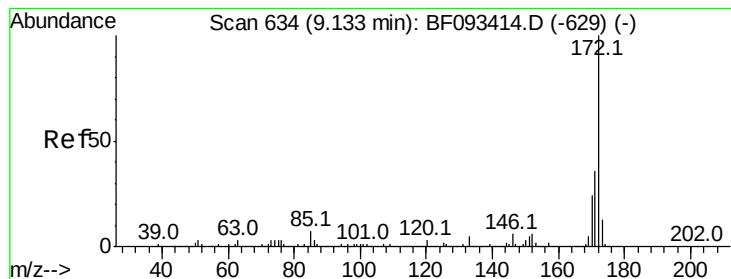


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 71.80 ng

RT: 9.06 min Scan# 628

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

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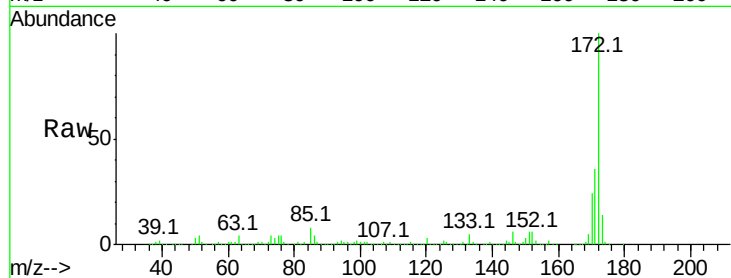
Tot Ion:172 Resp: 1251654

Ion Ratio Lower Upper

172 100

171 36.2 29.4 44.0

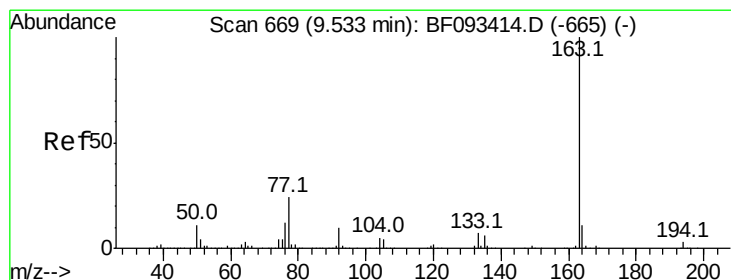
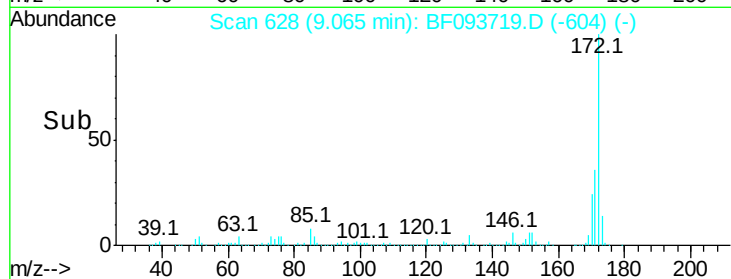
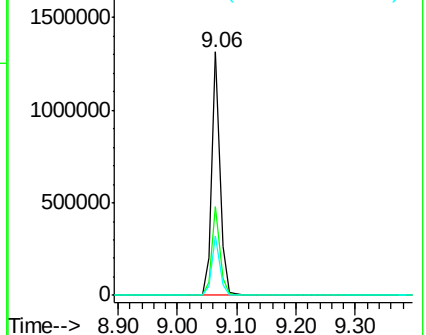
170 24.5 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 8.73 ng

RT: 9.48 min Scan# 664

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

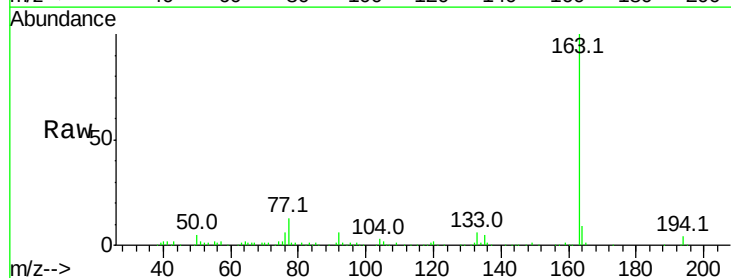
Tgt Ion:163 Resp: 187591

Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.4

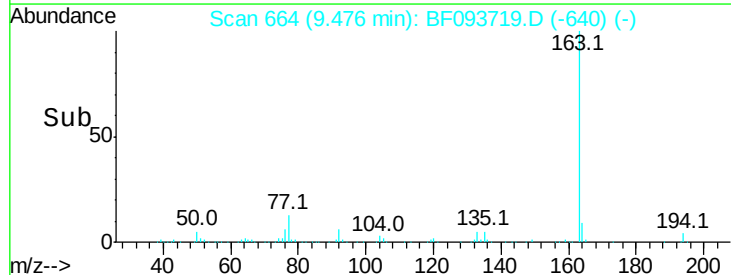
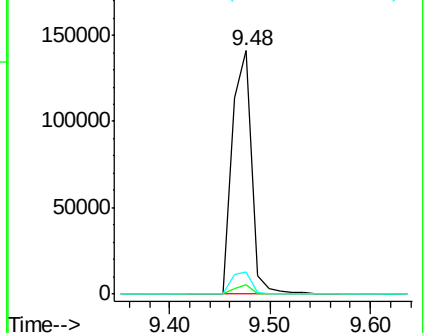
164 9.3 8.0 12.0

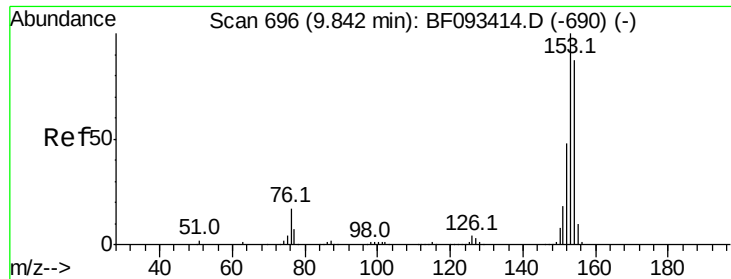


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.08 ng

RT: 9.77 min Scan# 690

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

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TP7

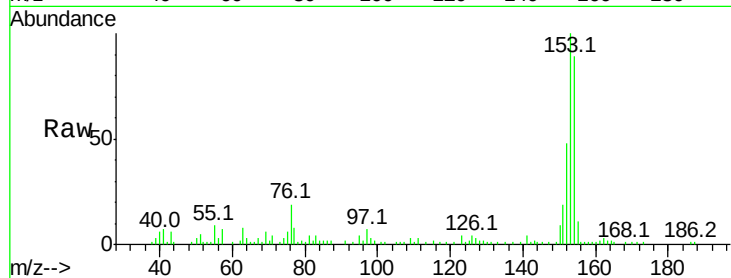
Tot Ion:154 Resp: 36671

Ion Ratio Lower Upper

154 100

153 112.3 88.6 133.0

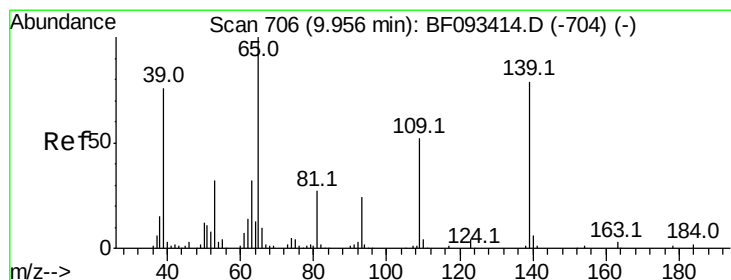
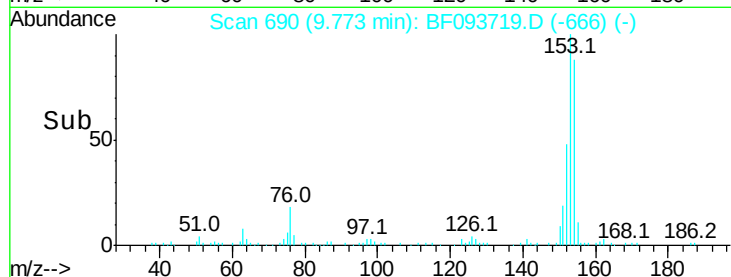
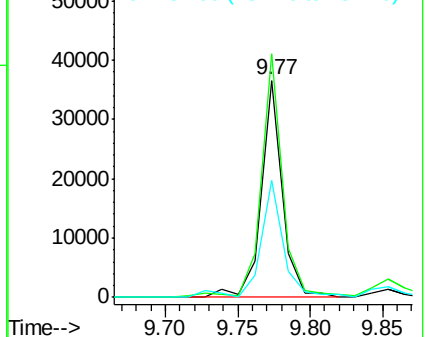
152 54.0 41.6 62.4



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: 3.16 ng

RT: 9.96 min Scan# 706

Delta R.T. 0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

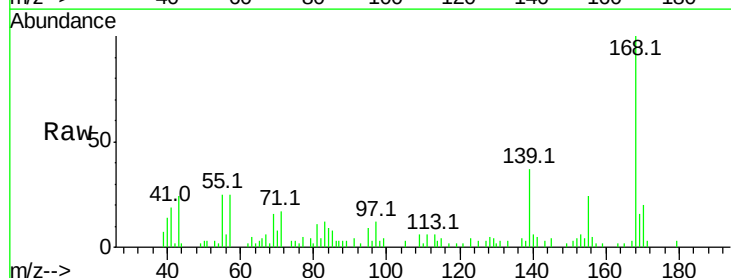
Tgt Ion:139 Resp: 8686

Ion Ratio Lower Upper

139 100

109 16.5 52.2 92.2#

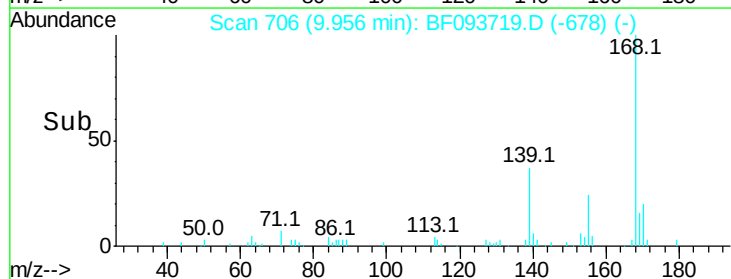
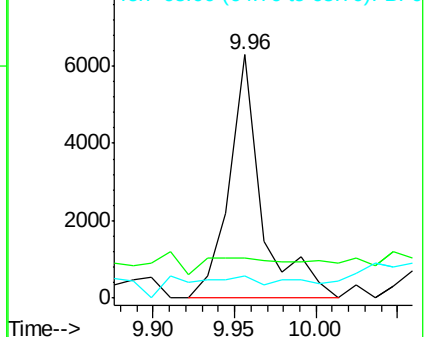
65 9.1 85.8 125.8#

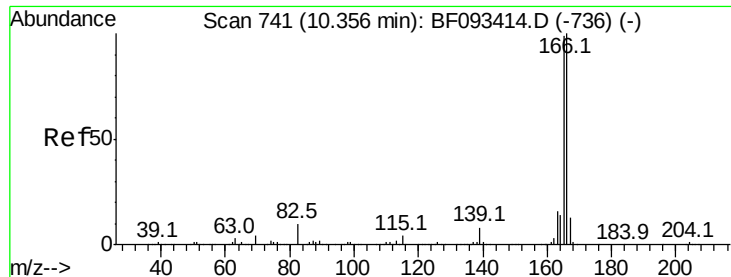


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

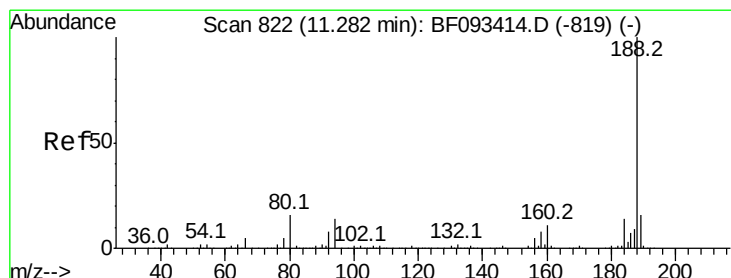
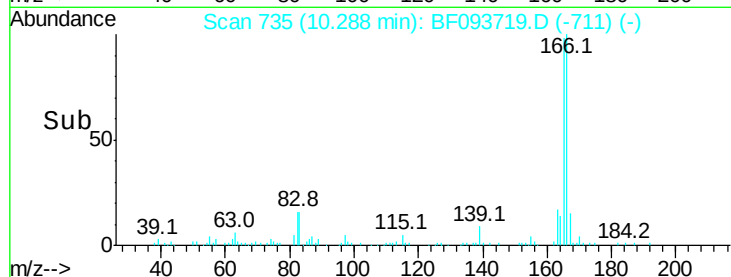
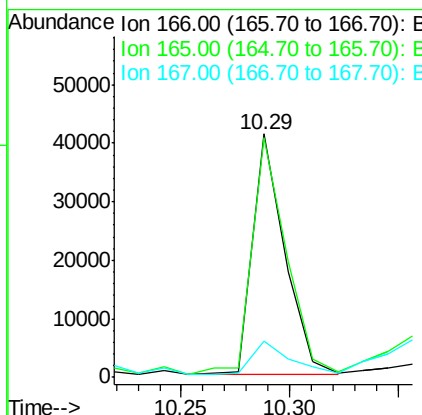
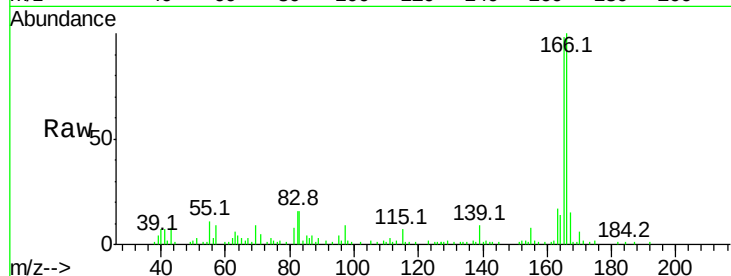




#57
 Fluorene
 Concen: 2.26 ng
 RT: 10.29 min Scan# 735
 Delta R.T. -0.02 min
 Lab File: BF093719.D
 Acq: 16 Mar 2017 21:13

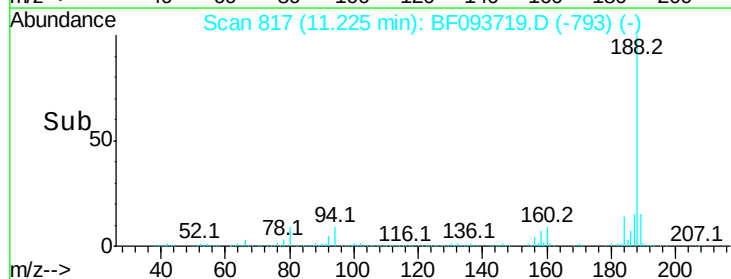
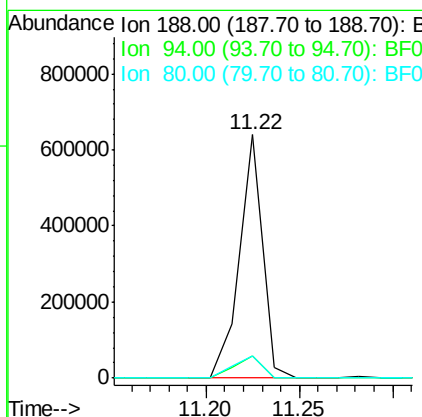
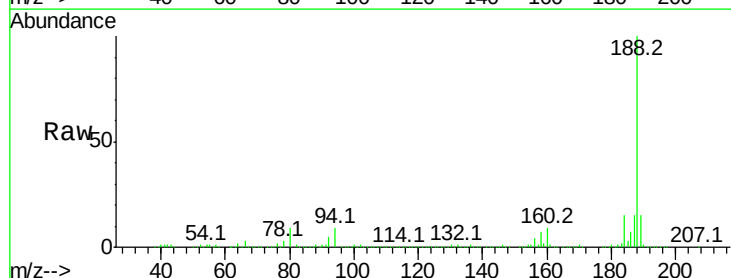
Instrument :
 BNA_F
 ClientSampled :
 TP7

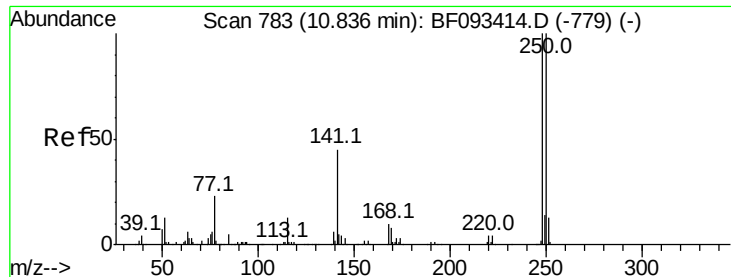
Tot Ion:166 Resp: 42260
 Ion Ratio Lower Upper
 166 100
 165 98.4 77.8 116.8
 167 14.6 10.8 16.2



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.22 min Scan# 817
 Delta R.T. -0.02 min
 Lab File: BF093719.D
 Acq: 16 Mar 2017 21:13

Tgt Ion:188 Resp: 561801
 Ion Ratio Lower Upper
 188 100
 94 9.0 10.0 15.0#
 80 8.9 11.2 16.8#

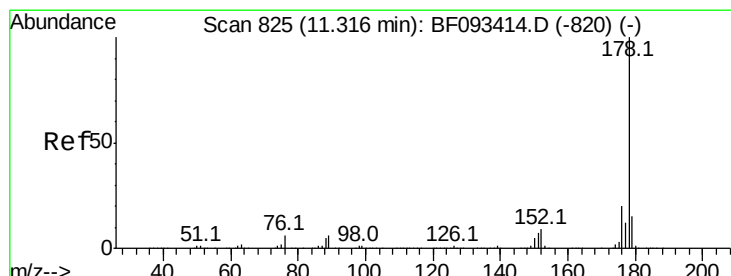
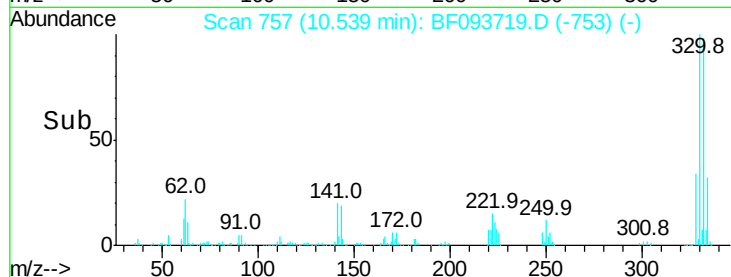
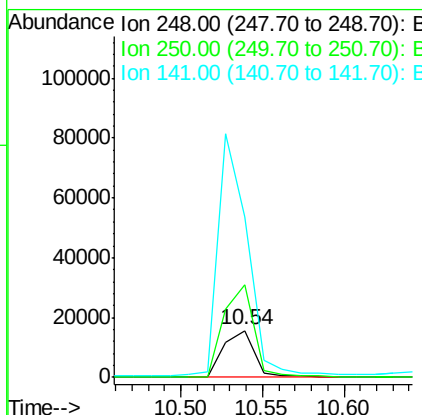
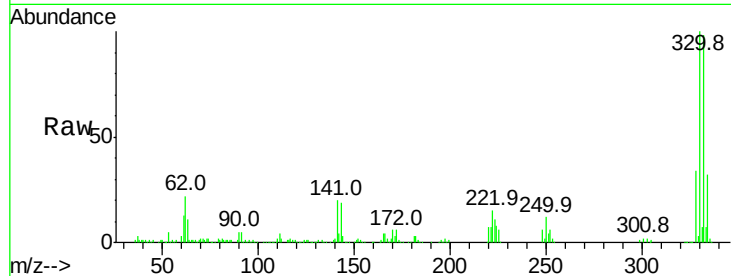




#66
 4-Bromophenyl-phenylether
 Concen: 3.42 ng
 RT: 10.54 min Scan# 757
 Delta R.T. -0.25 min
 Lab File: BF093719.D
 Acq: 16 Mar 2017 21:13

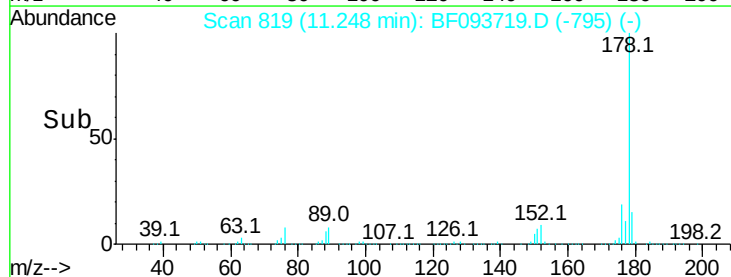
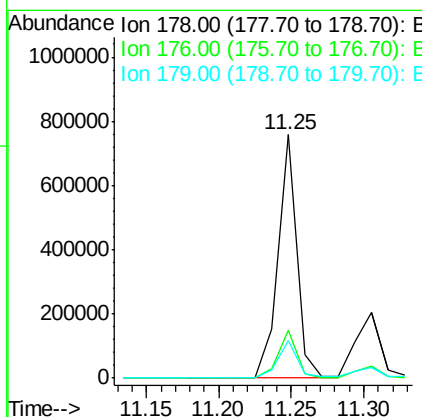
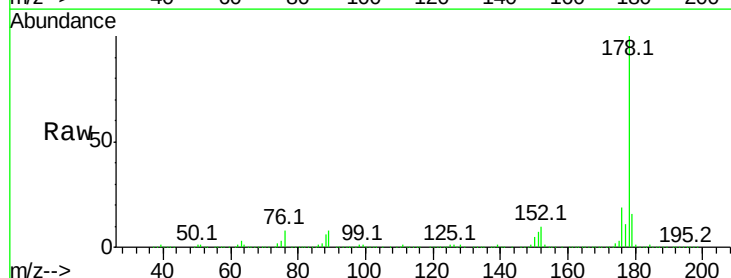
Instrument :
 BNA_F
 ClientSampleId :
 TP7

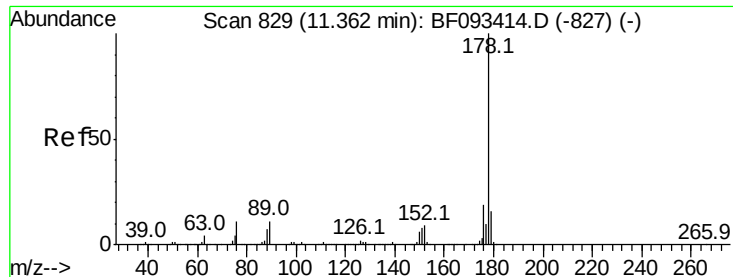
Tot Ion:248 Resp: 20302
 Ion Ratio Lower Upper
 248 100
 250 198.6 76.9 115.3#
 141 341.4 68.2 102.4#



#70
 Phenanthrene
 Concen: 21.40 ng
 RT: 11.25 min Scan# 819
 Delta R.T. -0.02 min
 Lab File: BF093719.D
 Acq: 16 Mar 2017 21:13

Tgt Ion:178 Resp: 686291
 Ion Ratio Lower Upper
 178 100
 176 19.5 16.6 25.0
 179 15.5 12.8 19.2

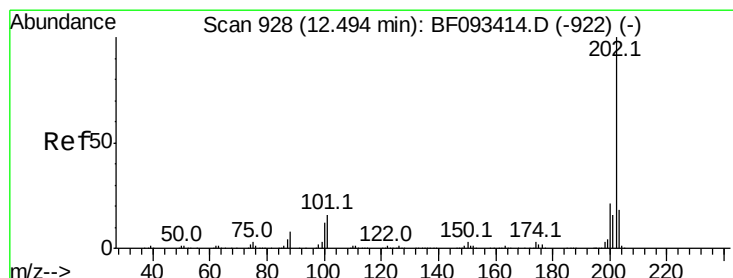
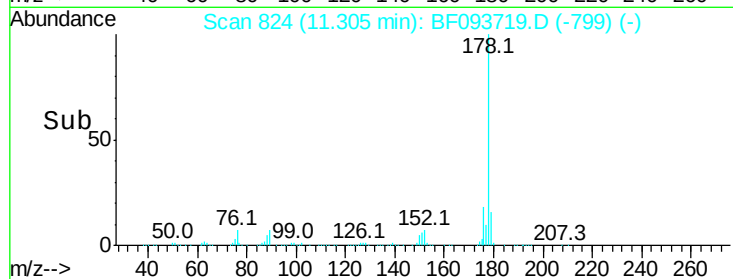
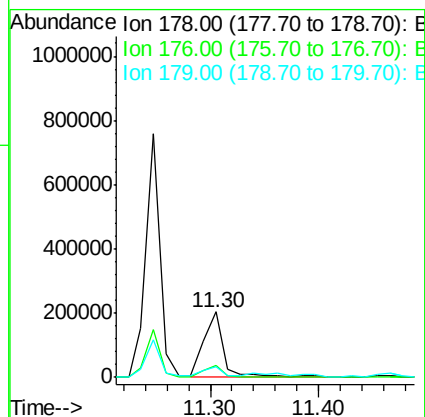
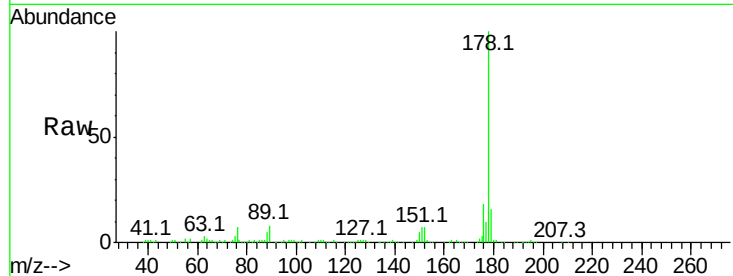




#71
 Anthracene
 Concen: 7.75 ng
 RT: 11.30 min Scan# 824
 Delta R.T. -0.01 min
 Lab File: BF093719.D
 Acq: 16 Mar 2017 21:13

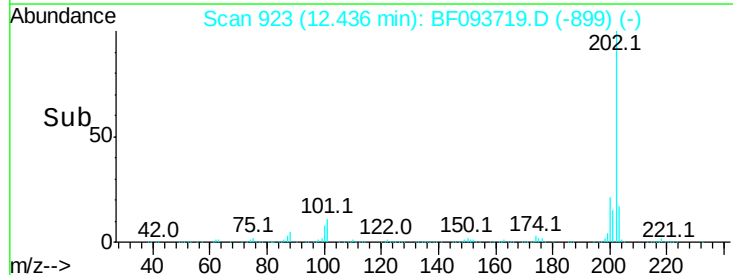
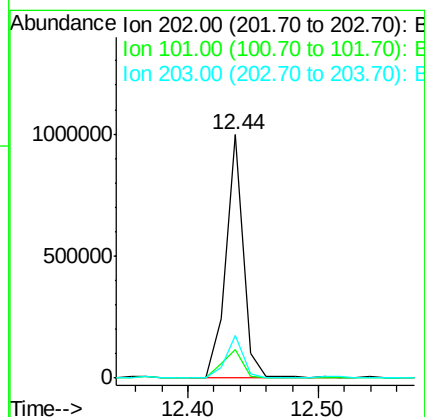
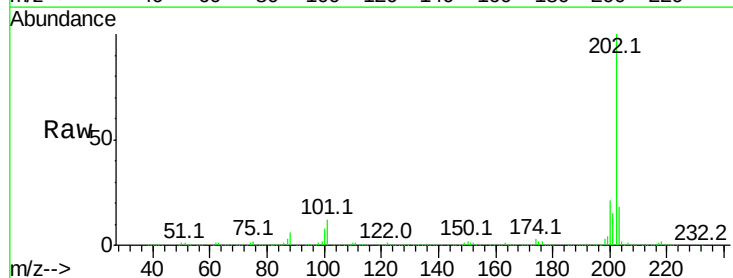
Instrument :
 BNA_F
 ClientSampled :
 TP7

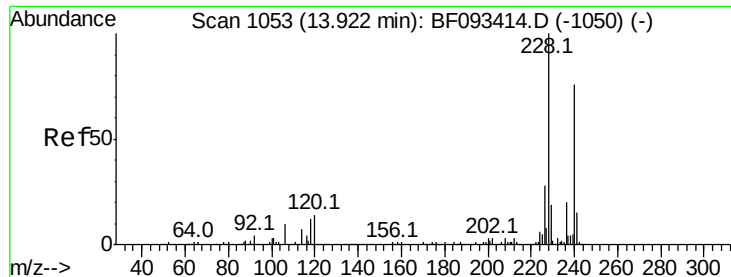
Tot Ion:178 Resp: 251328
 Ion Ratio Lower Upper
 178 100
 176 17.8 15.9 23.9
 179 16.2 13.2 19.8



#74
 Fluoranthene
 Concen: 30.31 ng
 RT: 12.44 min Scan# 923
 Delta R.T. -0.02 min
 Lab File: BF093719.D
 Acq: 16 Mar 2017 21:13

Tgt Ion:202 Resp: 938822
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 34.6
 203 17.6 0.0 38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.85 min Scan# 1047

Delta R.T. -0.03 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

BNA_F

ClientSampleId :

TP7

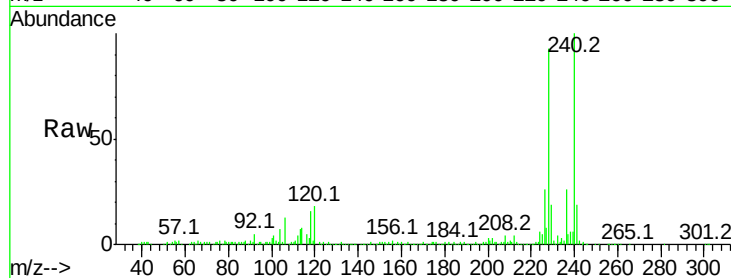
Tot Ion:240 Resp: 387512

Ion Ratio Lower Upper

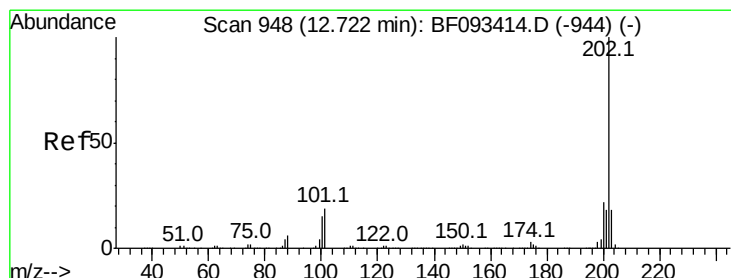
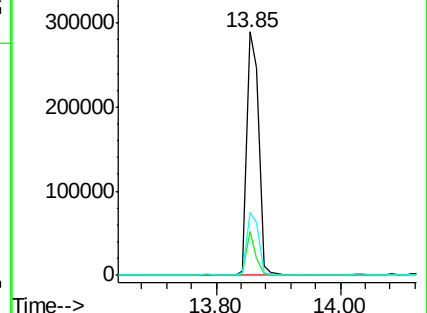
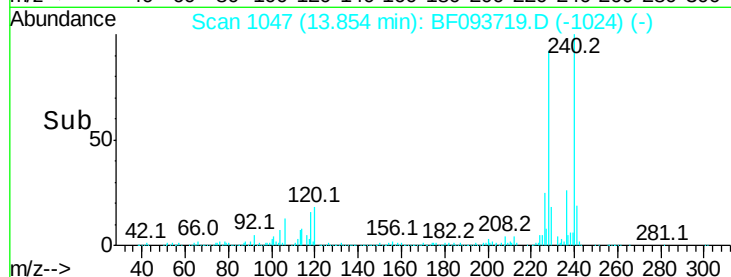
240 100

120 18.2 12.9 19.3

236 25.8 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 31.41 ng

RT: 12.67 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

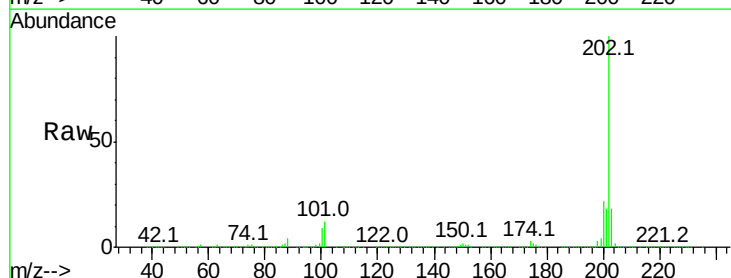
Tgt Ion:202 Resp: 885183

Ion Ratio Lower Upper

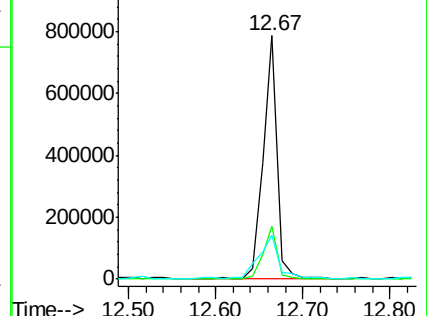
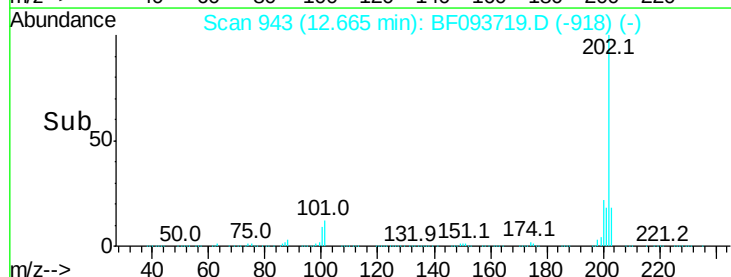
202 100

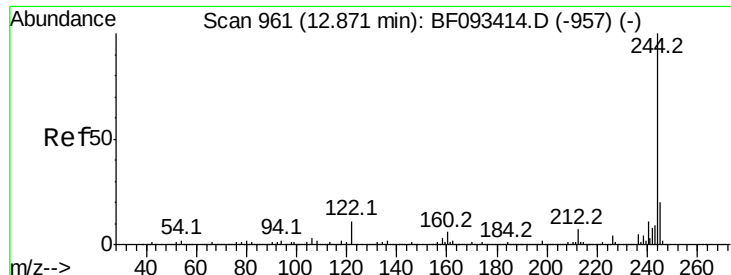
200 21.9 17.7 26.5

203 18.0 14.7 22.1



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: 67.00 ng

RT: 12.80 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

BNA_F

ClientSampleId :

TP7

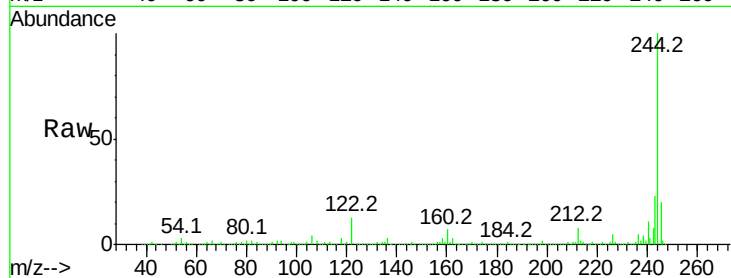
Tot Ion:244 Resp: 998643

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

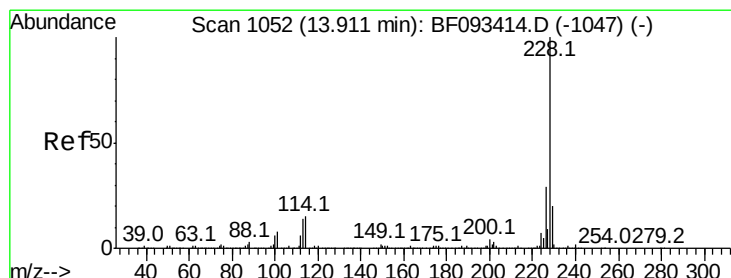
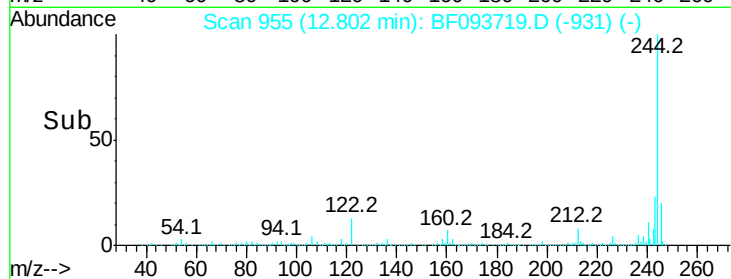
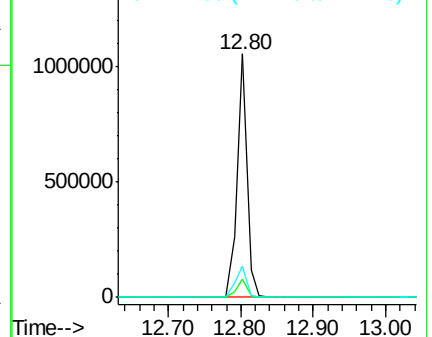
122 12.9 11.4 17.2



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: 16.24 ng

RT: 13.85 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

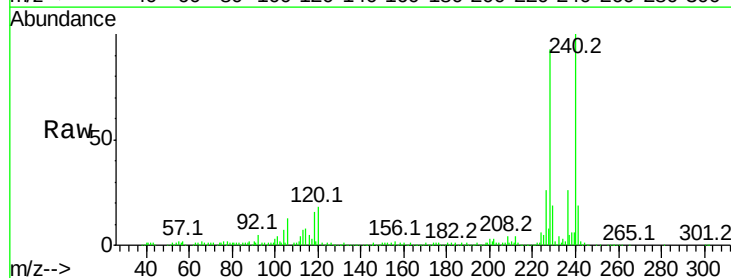
Tgt Ion:228 Resp: 371722

Ion Ratio Lower Upper

228 100

226 27.6 22.4 33.6

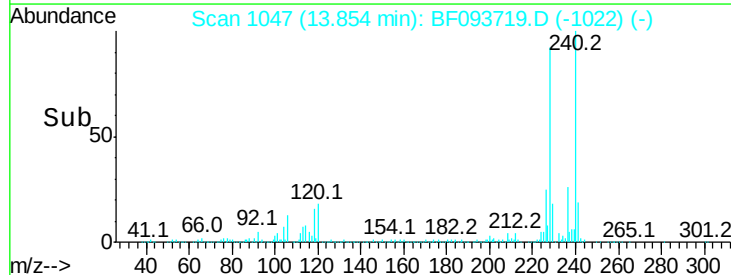
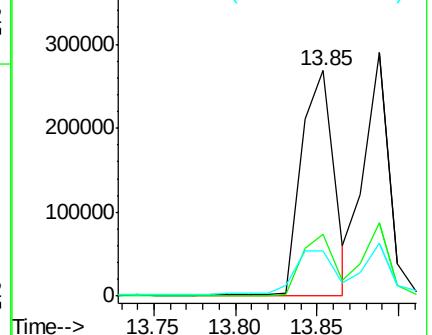
229 20.2 16.2 24.4

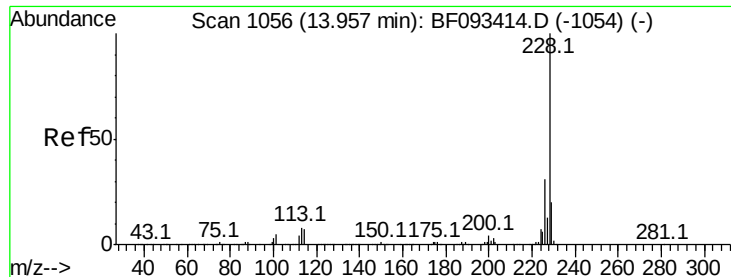


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

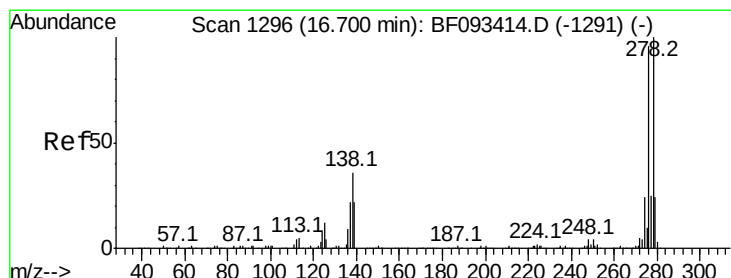
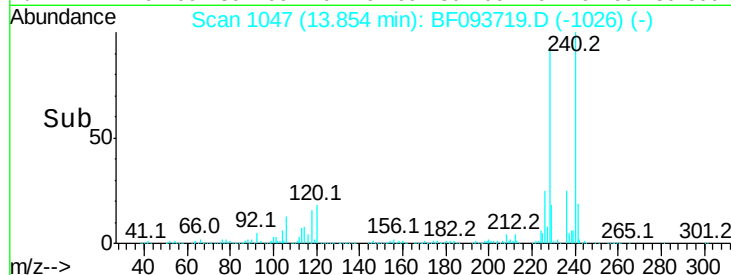
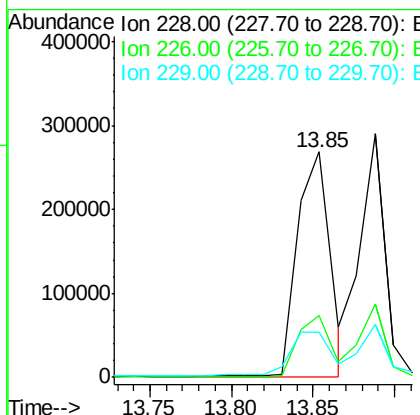
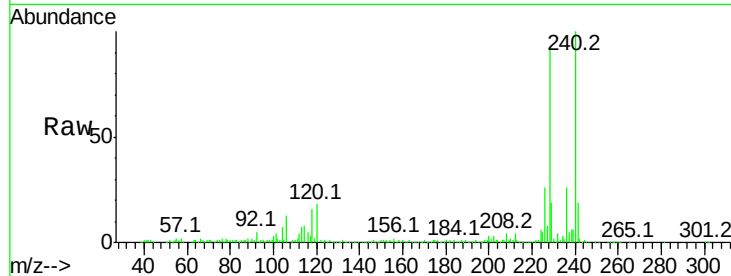




#82
Chrysene
Concen: 17.56 ng
RT: 13.85 min Scan# 1047
Delta R.T. -0.06 min
Lab File: BF093719.D
Acq: 16 Mar 2017 21:13

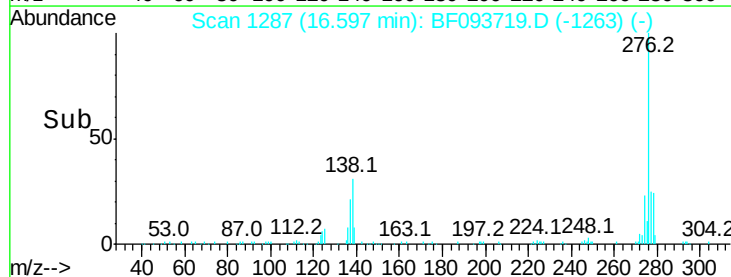
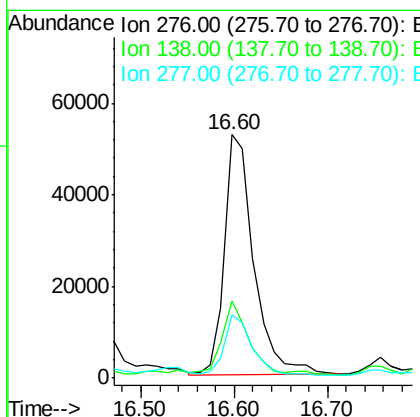
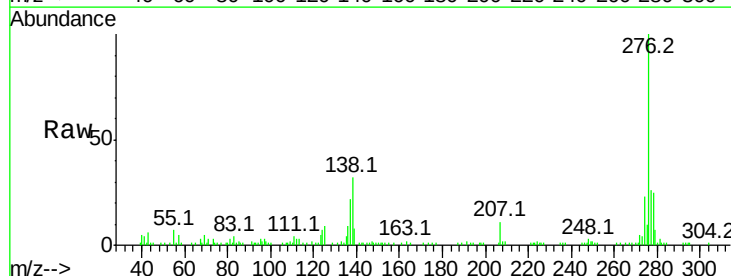
Instrument :
BNA_F
ClientSampleId :
TP7

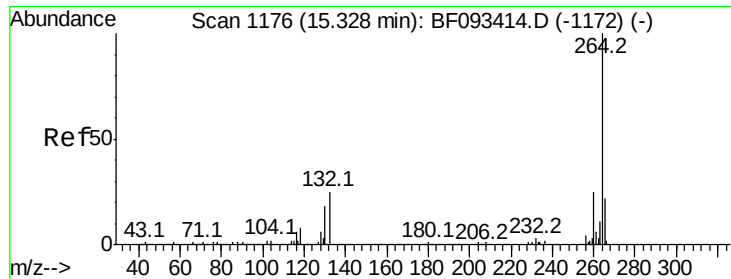
Tot Ion:228 Resp: 371722
Ion Ratio Lower Upper
228 100
226 27.6 25.4 38.0
229 20.2 16.2 24.2



#85
Indeno(1,2,3-cd)pyrene
Concen: 6.48 ng
RT: 16.60 min Scan# 1287
Delta R.T. -0.02 min
Lab File: BF093719.D
Acq: 16 Mar 2017 21:13

Tgt Ion:276 Resp: 114762
Ion Ratio Lower Upper
276 100
138 25.9 21.8 32.6
277 23.7 20.2 30.4

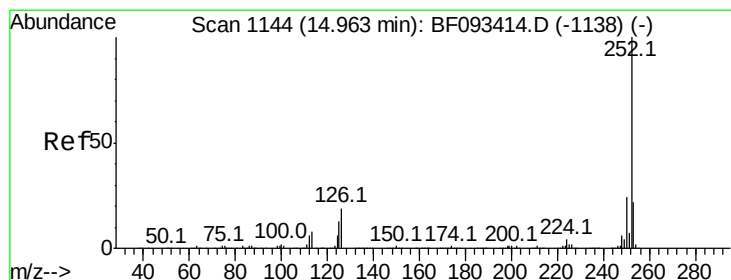
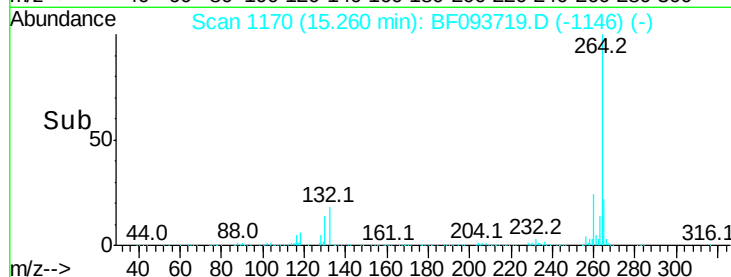
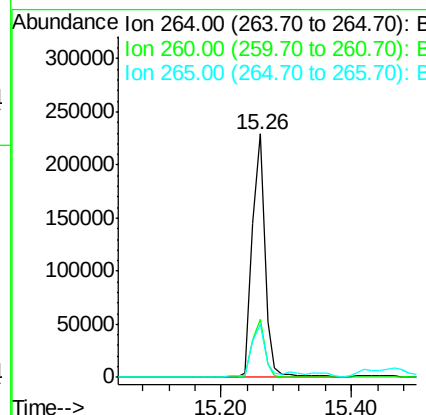
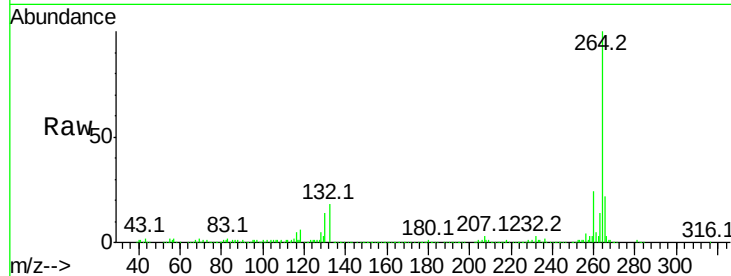




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.26 min Scan# 1170
Delta R.T. -0.02 min
Lab File: BF093719.D
Acq: 16 Mar 2017 21:13

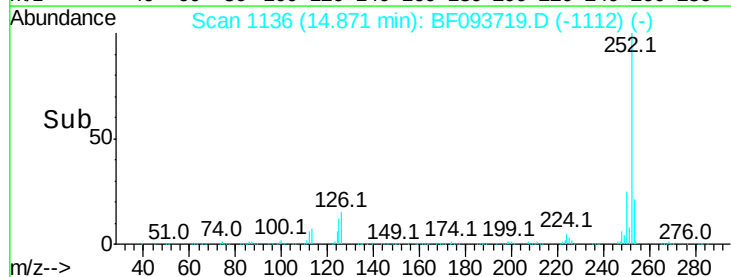
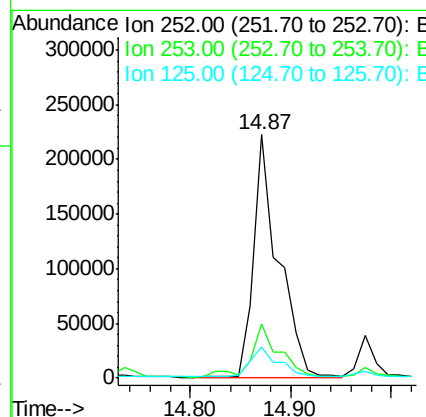
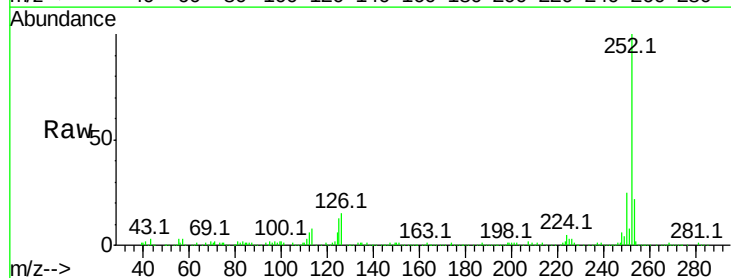
Instrument :
BNA_F
ClientSampleId :
TP7

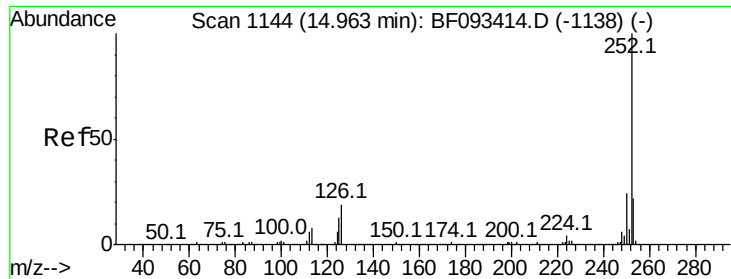
Tot Ion:264 Resp: 313101
Ion Ratio Lower Upper
264 100
260 23.9 19.2 28.8
265 21.8 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 19.89 ng
RT: 14.87 min Scan# 1136
Delta R.T. -0.02 min
Lab File: BF093719.D
Acq: 16 Mar 2017 21:13

Tgt Ion:252 Resp: 379339
Ion Ratio Lower Upper
252 100
253 22.1 18.2 27.4
125 12.8 9.8 14.6





#88

Benzo(k)fluoranthene

Concen: 20.63 ng

RT: 14.87 min Scan# 1136

Delta R.T. -0.05 min

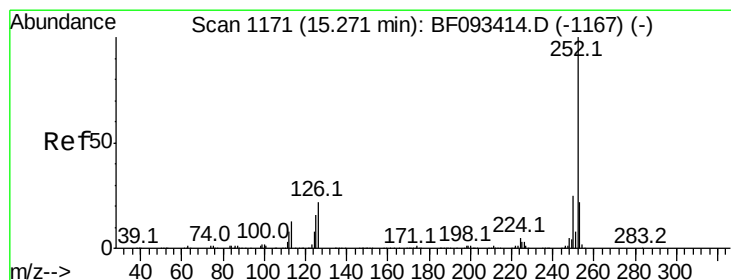
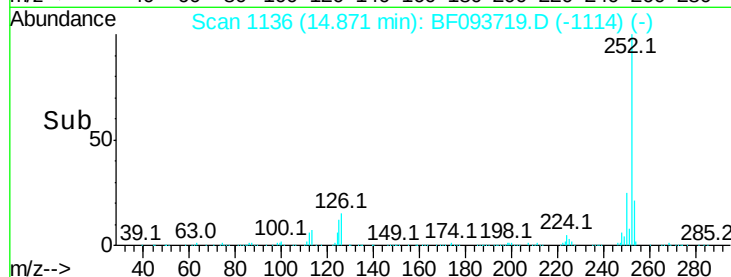
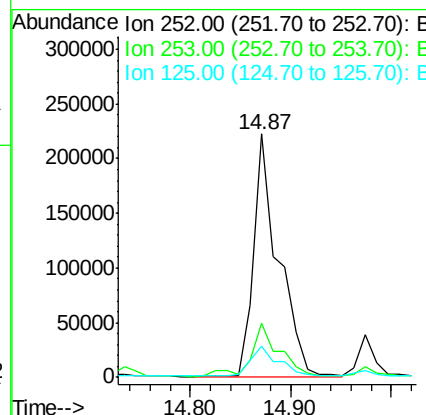
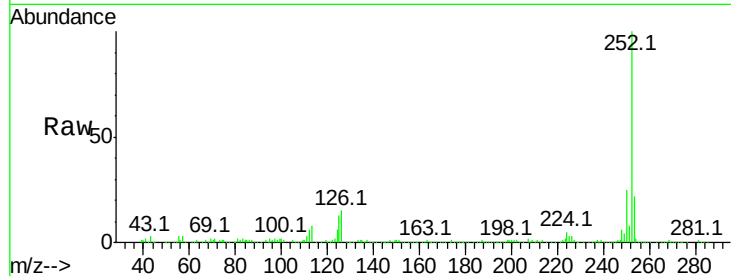
Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :
BNA_F
ClientSampleId :
TP7

Tot Ion:252 Resp: 379339

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.5	27.7
125	12.8	8.9	13.3



#89

Benzo(a)pyrene

Concen: 12.28 ng

RT: 15.20 min Scan# 1165

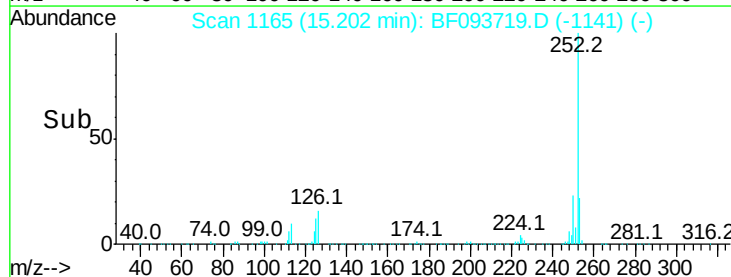
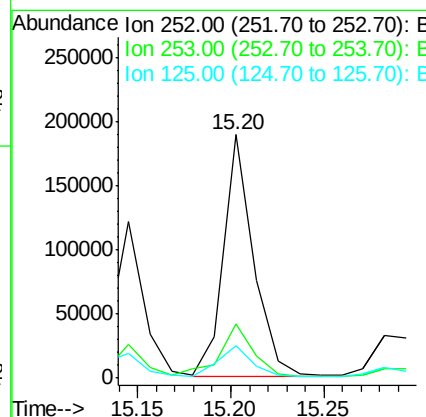
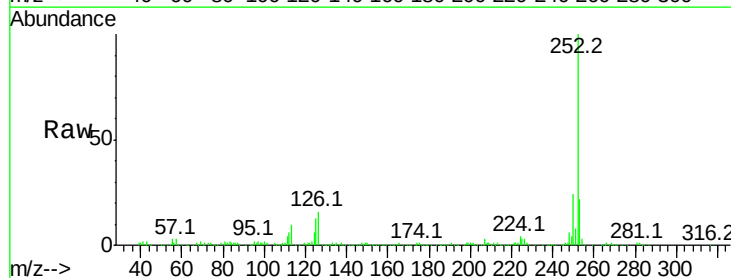
Delta R.T. -0.02 min

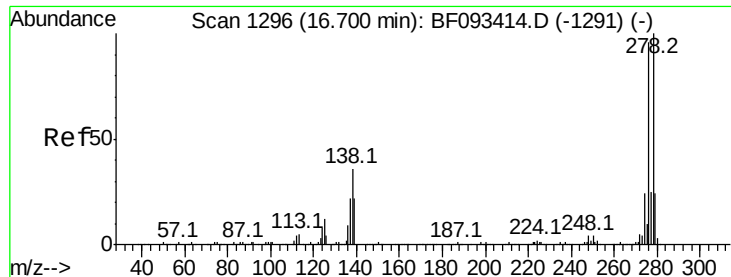
Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Tgt Ion:252 Resp: 213923

Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.2	27.2
125	13.1	10.0	15.0





#90

Dibenzo(a,h)anthracene

Concen: 2.80 ng

RT: 16.60 min Scan# 1287

Delta R.T. -0.02 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

Instrument :

BNA_F

ClientSampleId :

TP7

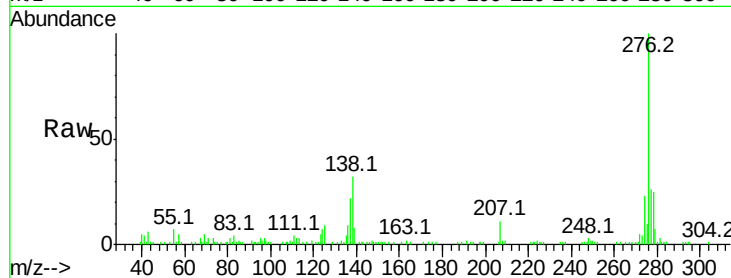
Tot Ion:278 Resp: 40438

Ion Ratio Lower Upper

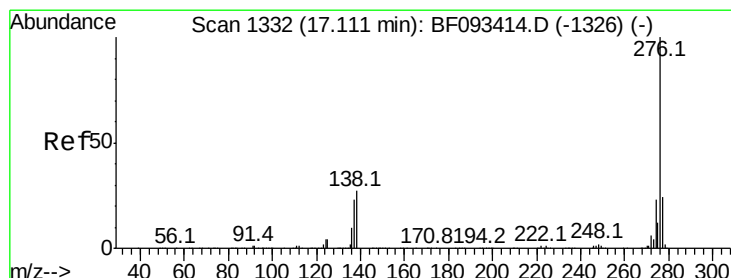
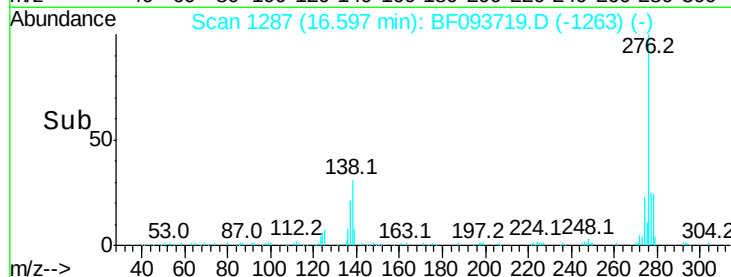
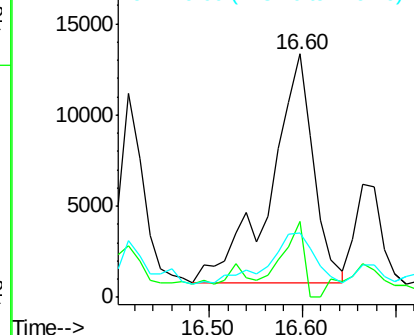
278 100

139 31.0 14.8 22.2#

279 26.6 19.8 29.6



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 7.46 ng

RT: 17.01 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF093719.D

Acq: 16 Mar 2017 21:13

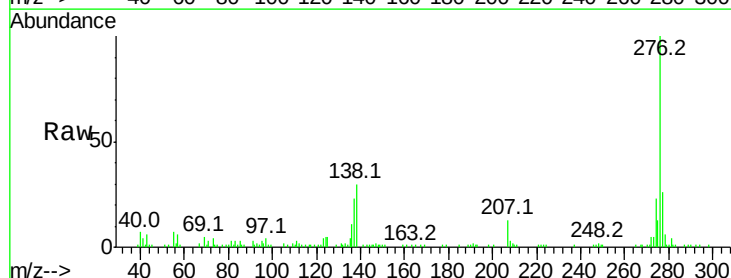
Tgt Ion:276 Resp: 110415

Ion Ratio Lower Upper

276 100

277 25.5 19.2 28.8

138 29.9 16.0 24.0#



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

