

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011516\
 Data File : BF084524.D
 Acq On : 16 Jan 2016 7:13
 Operator : SJ/UM
 Sample : H1143-01 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-6-20160113

Quant Time: Jan 18 00:10:03 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 14 14:15:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	232397	20.00	ng	-0.01
21) Naphthalene-d8	8.11	136	921285	20.00	ng	-0.01
38) Acenaphthene-d10	9.86	164	387201	20.00	ng	-0.01
63) Phenanthrene-d10	11.34	188	664908	20.00	ng	-0.01
75) Chrysene-d12	13.99	240	542312	20.00	ng	-0.01
86) Perylene-d12	15.40	264	540304	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	385354	26.82	ng	-0.01
7) Phenol-d6	6.45	99	465074	25.77	ng	-0.02
23) Nitrobenzene-d5	7.38	82	269821	16.30	ng	-0.02
41) 2,4,6-Tribromophenol	10.65	330	84428	21.60	ng	-0.02
44) 2-Fluorobiphenyl	9.18	172	502992	17.85	ng	-0.01
78) Terphenyl-d14	12.93	244	343930	14.16	ng	-0.01

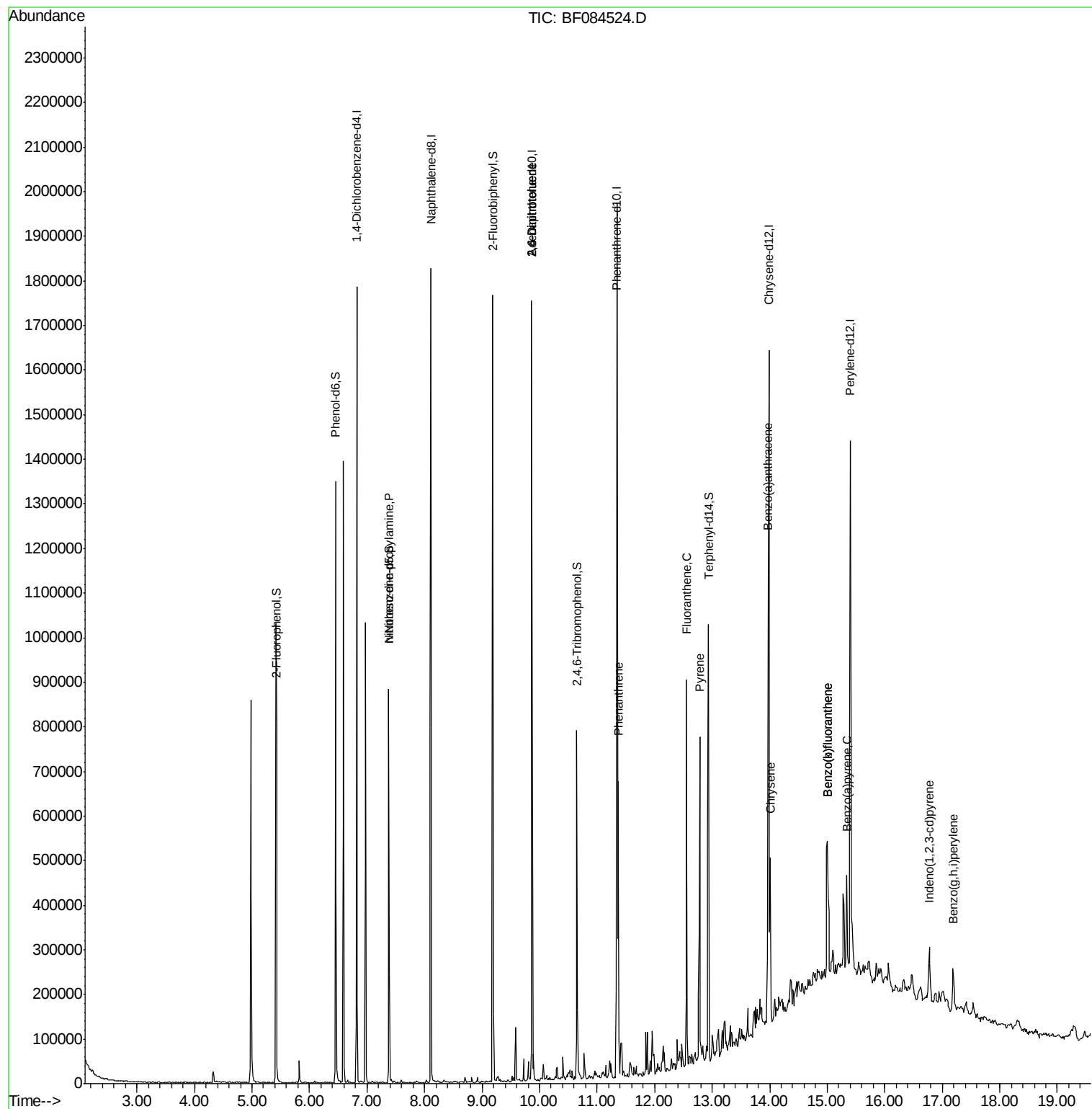
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.38	70	36714	3.01	ng	# 70
50) 2,6-Dinitrotoluene	9.86	165	49143	8.09	ng	# 38
54) Dibenzofuran	10.06	168	9005	Below Cal		# 88
56) 2,4-Dinitrotoluene	9.86	165	49388	6.43	ng	# 22
57) Fluorene	10.41	166	13090	Below Cal		# 86
70) Phenanthrene	11.37	178	225288	6.48	ng	99
73) Di-n-butylphthalate	11.92	149	5484	Below Cal		# 86
74) Fluoranthene	12.56	202	328291	9.04	ng	97
77) Pyrene	12.78	202	311523	7.32	ng	97
80) Benzo(a)anthracene	13.97	228	181500	5.70	ng	96
82) Chrysene	14.01	228	114196	3.73	ng	97
85) Indeno(1,2,3-cd)pyrene	16.77	276	84862	3.50	ng	97
87) Benzo(b)fluoranthene	15.00	252	252185	7.14	ng	# 96
88) Benzo(k)fluoranthene	15.00	252	252185	8.72	ng	97
89) Benzo(a)pyrene	15.35	252	135747	4.53	ng	96
91) Benzo(g,h,i)perylene	17.19	276	79087	2.96	ng	# 95

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

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Quant Time: Jan 18 00:10:03 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 14 14:15:52 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 414

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

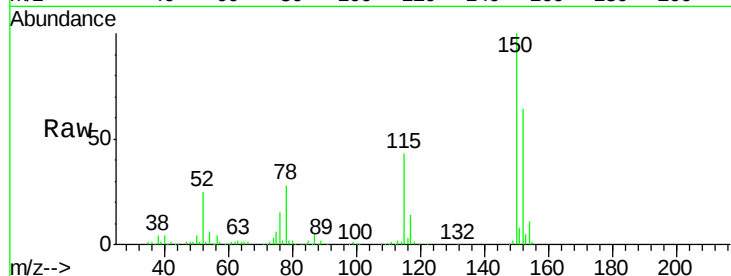
Tgt Ion:152 Resp: 232397

Ion Ratio Lower Upper

152 100

150 156.7 123.0 184.4

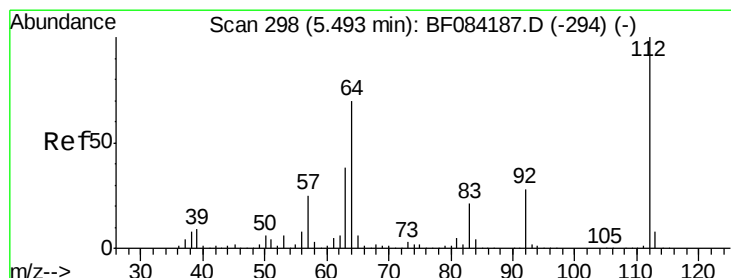
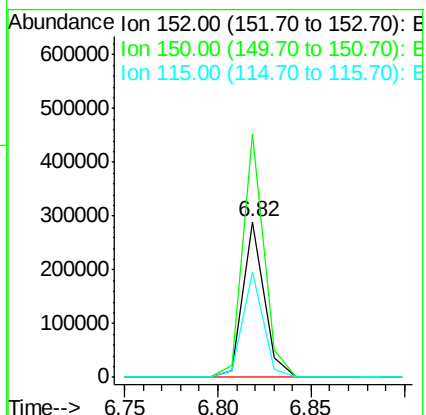
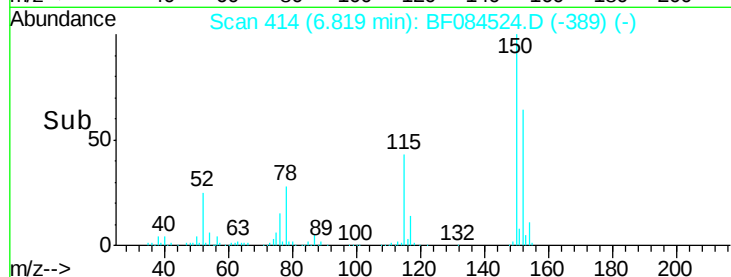
115 67.5 51.4 77.2



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: 26.82 ng

RT: 5.42 min Scan# 292

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

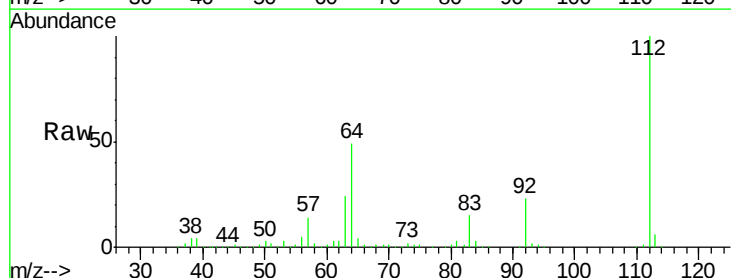
Tgt Ion:112 Resp: 385354

Ion Ratio Lower Upper

112 100

64 48.7 36.6 55.0

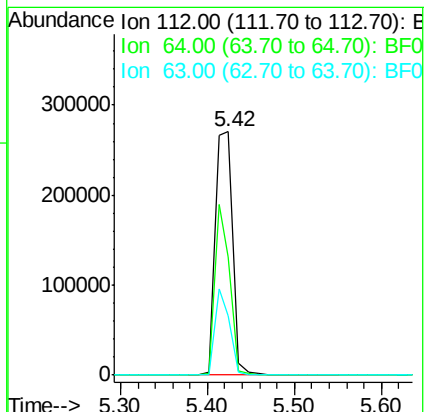
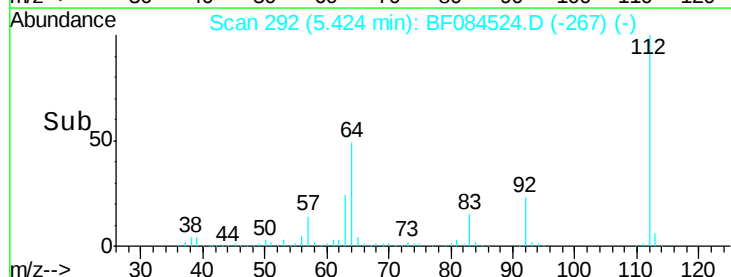
63 24.2 19.4 29.0

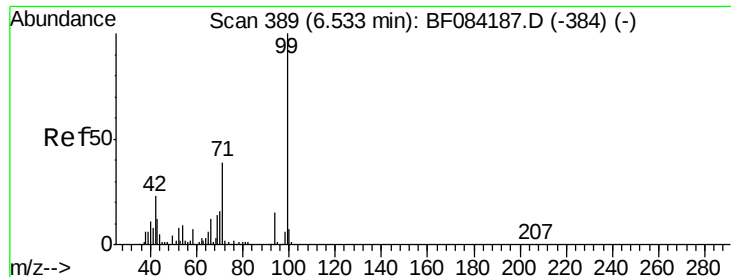


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 25.77 ng

RT: 6.45 min Scan# 382

Delta R.T. -0.02 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

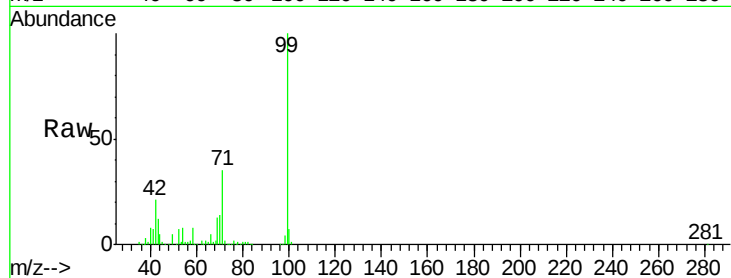
Tgt Ion: 99 Resp: 465074

Ion Ratio Lower Upper

99 100

42 21.5 12.8 19.2#

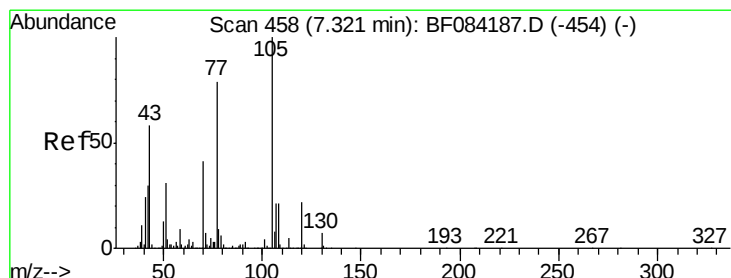
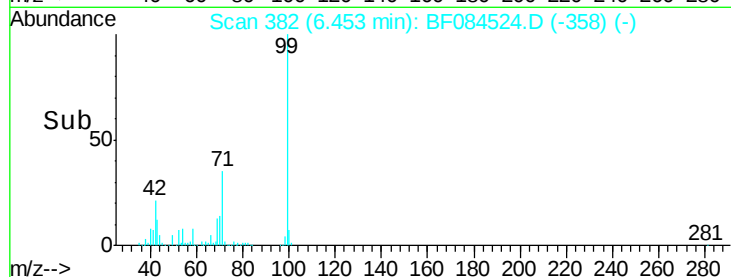
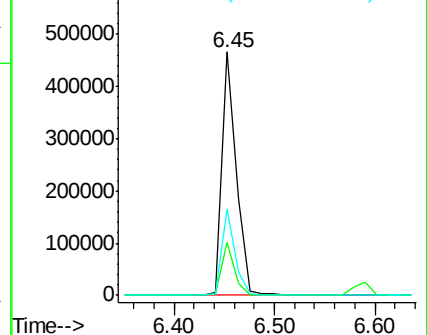
71 35.5 30.9 46.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.01 ng

RT: 7.38 min Scan# 463

Delta R.T. 0.13 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Tgt Ion: 70 Resp: 36714

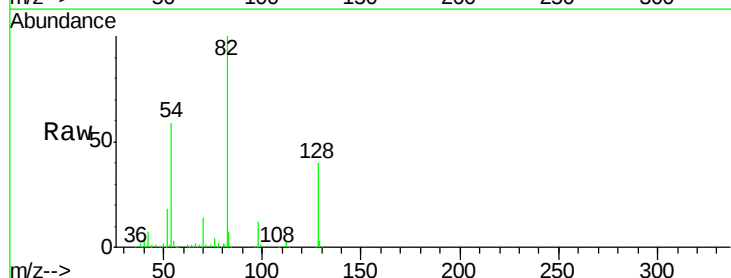
Ion Ratio Lower Upper

70 100

42 51.6 33.3 49.9#

101 0.0 9.3 13.9#

130 2.0 23.4 35.0#

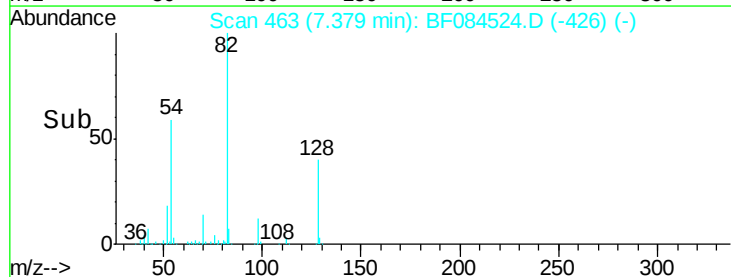
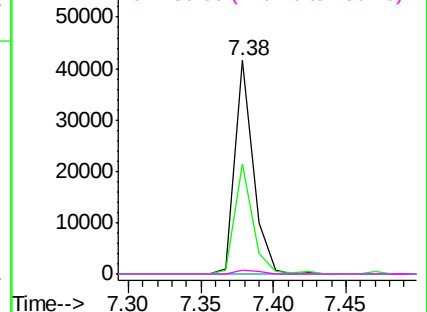


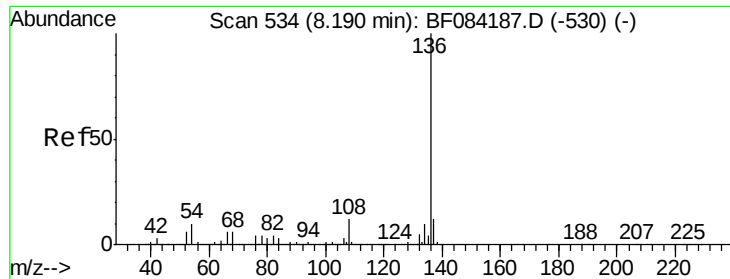
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.11 min Scan# 527

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

Tgt Ion: 136 Resp: 921285

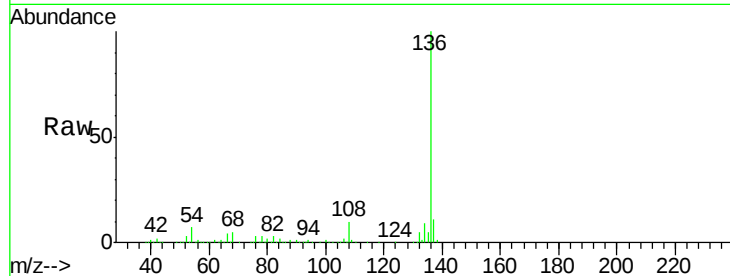
Ion Ratio Lower Upper

136 100

137 11.2 8.7 13.1

54 7.1 5.8 8.8

68 4.5 4.2 6.2

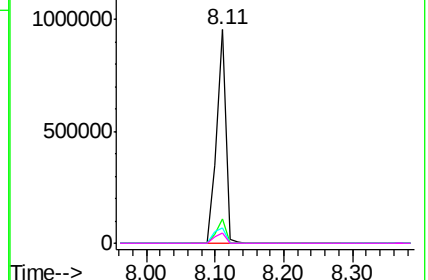
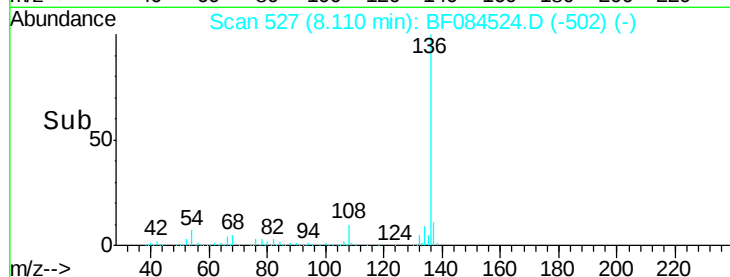


Abundance Ion 136.00 (135.70 to 136.70): E

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: 16.30 ng

RT: 7.38 min Scan# 463

Delta R.T. -0.02 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

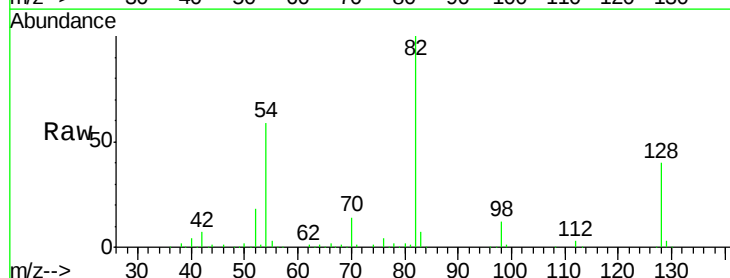
Tgt Ion: 82 Resp: 269821

Ion Ratio Lower Upper

82 100

128 40.4 34.6 51.8

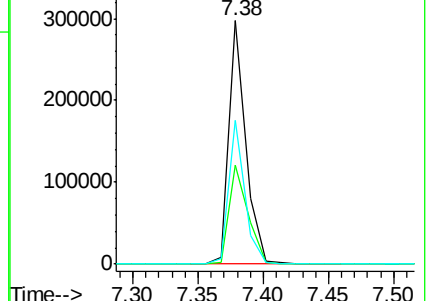
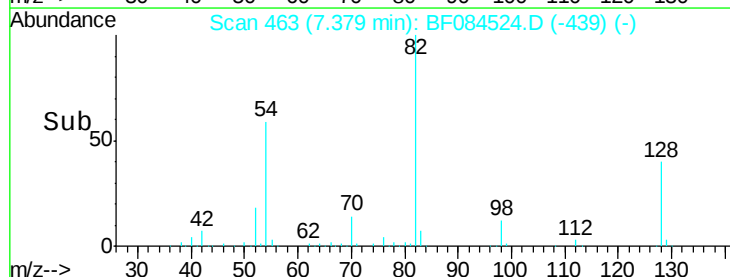
54 59.0 38.4 57.6#

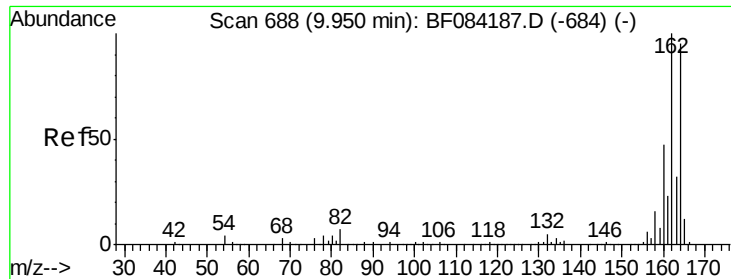


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.86 min Scan# 680

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

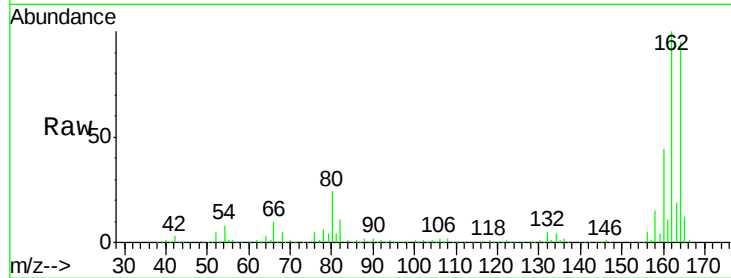
Tgt Ion:164 Resp: 387201

Ion Ratio Lower Upper

164 100

162 105.5 85.1 127.7

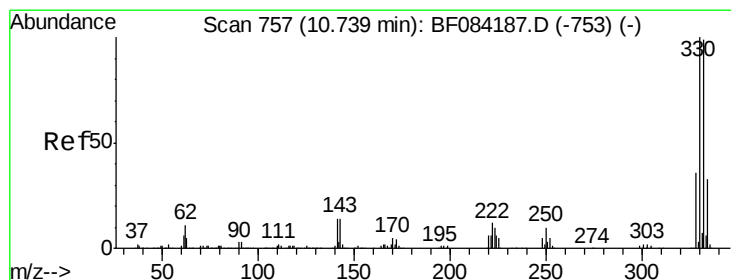
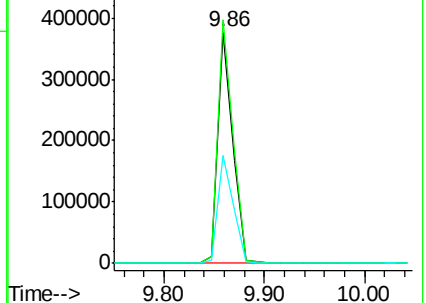
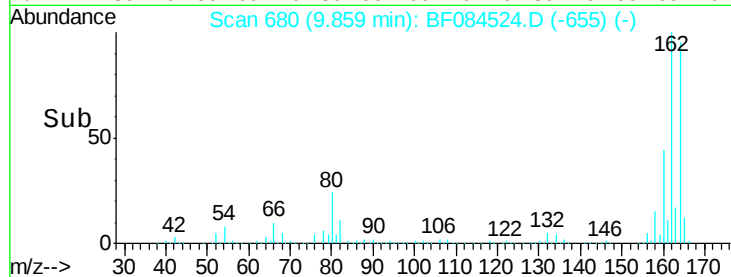
160 46.6 37.5 56.3



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: 21.60 ng

RT: 10.65 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

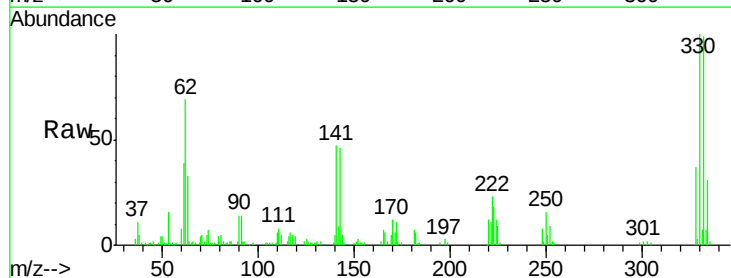
Tgt Ion:330 Resp: 84428

Ion Ratio Lower Upper

330 100

332 97.4 76.6 114.8

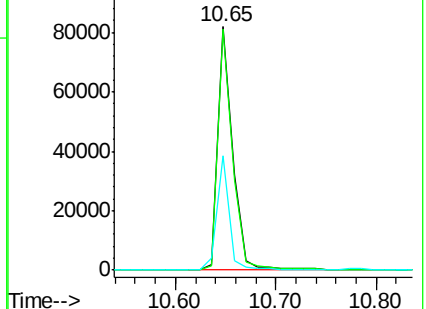
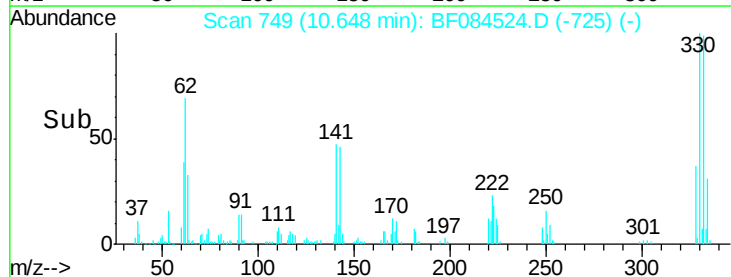
141 38.6 27.8 41.6

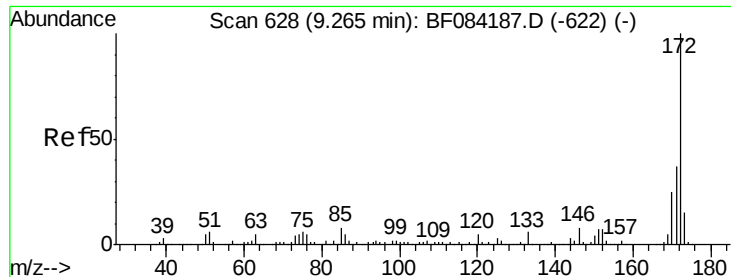


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

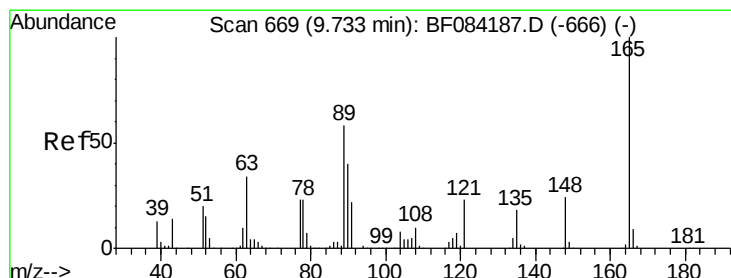
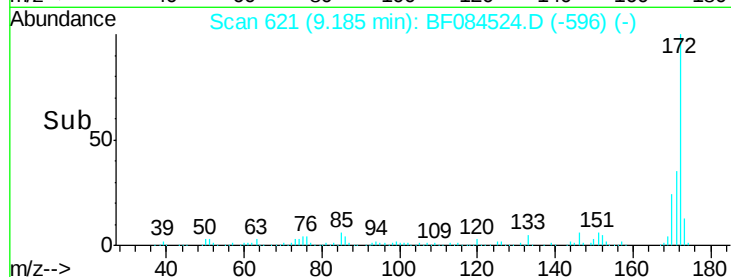
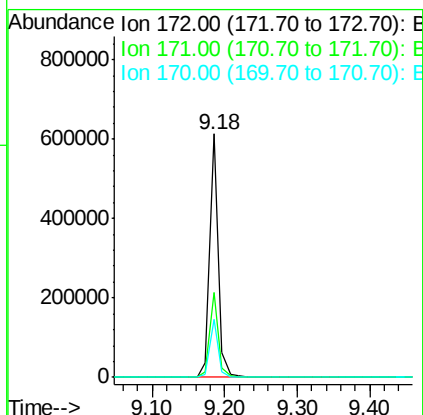
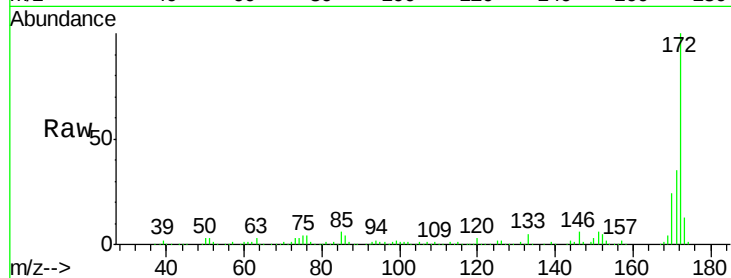




#44
 2-Fluorobiphenyl
 Concen: 17.85 ng
 RT: 9.18 min Scan# 621
 Delta R.T. -0.01 min
 Lab File: BF084524.D
 Acq: 16 Jan 2016 7:13

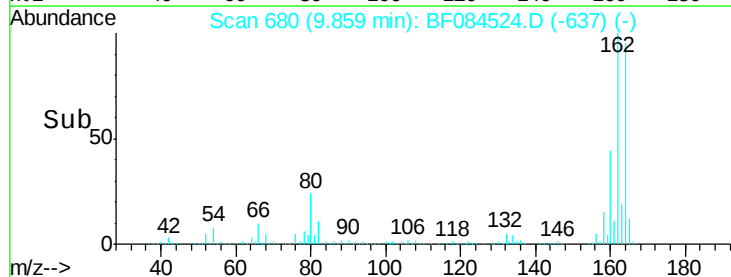
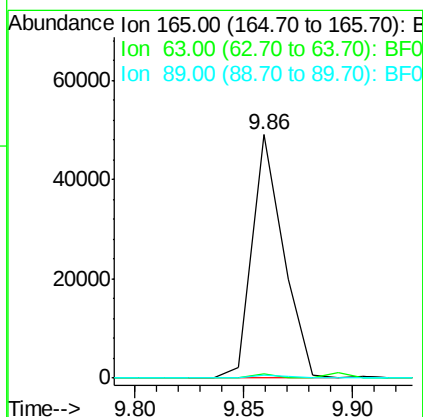
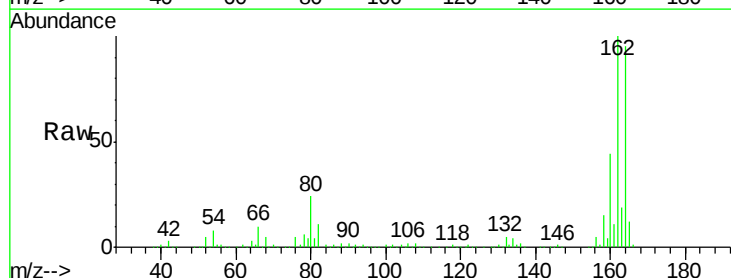
Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-6-20160113

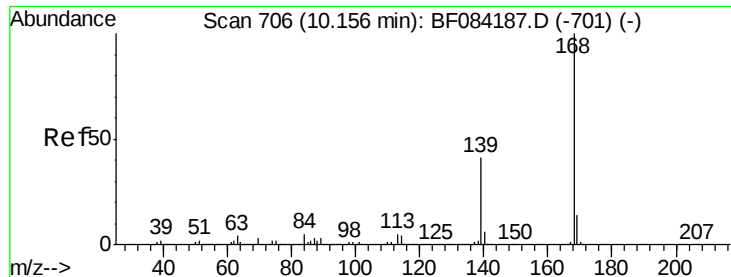
Tgt Ion:172 Resp: 502992
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.9 43.3
 170 23.7 18.6 27.8



#50
 2,6-Dinitrotoluene
 Concen: 8.09 ng
 RT: 9.86 min Scan# 680
 Delta R.T. 0.19 min
 Lab File: BF084524.D
 Acq: 16 Jan 2016 7:13

Tgt Ion:165 Resp: 49143
 Ion Ratio Lower Upper
 165 100
 63 1.9 28.8 43.2#
 89 1.4 35.1 52.7#





#54

Dibenzofuran

Concen: Below Cal

RT: 10.06 min Scan# 698

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

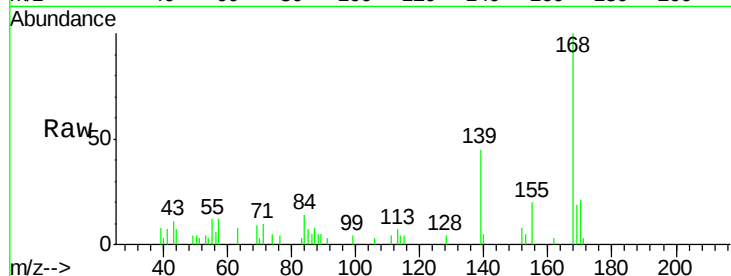
Tgt Ion:168 Resp: 9005

Ion Ratio Lower Upper

168 100

139 45.0 30.5 45.7

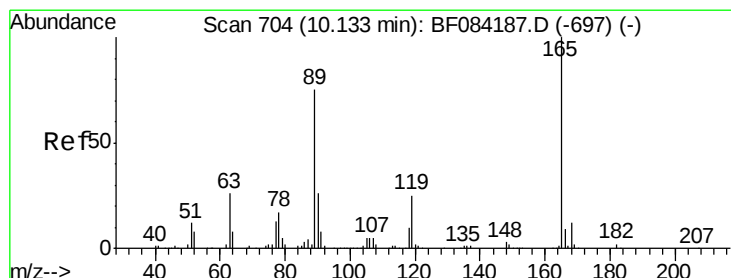
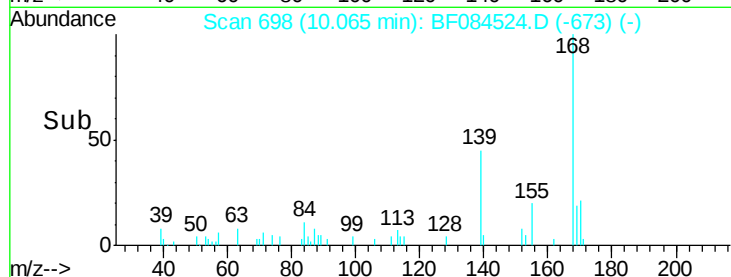
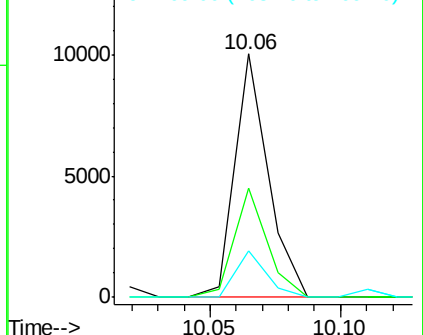
169 19.0 10.4 15.6#



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



#56

2,4-Dinitrotoluene

Concen: 6.43 ng

RT: 9.86 min Scan# 680

Delta R.T. -0.21 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Tgt Ion:165 Resp: 49388

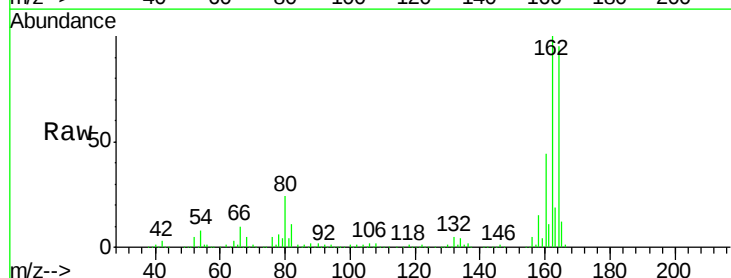
Ion Ratio Lower Upper

165 100

63 1.9 36.7 55.1#

89 1.4 61.9 92.9#

182 0.0 2.0 3.0#

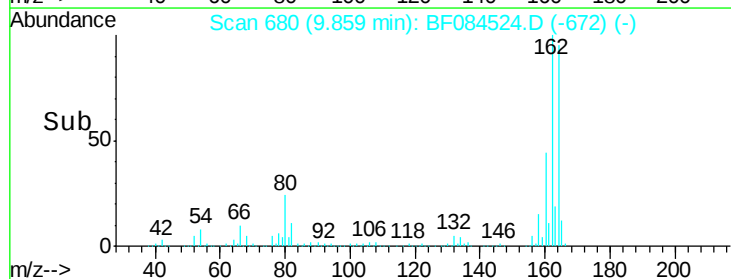
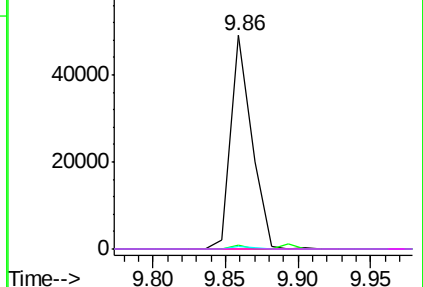


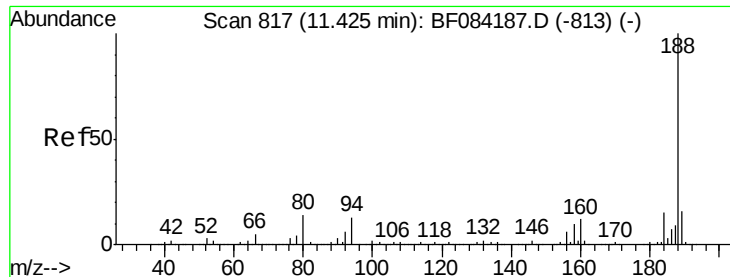
Abundance Ion 165.00 (164.70 to 165.70): E

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

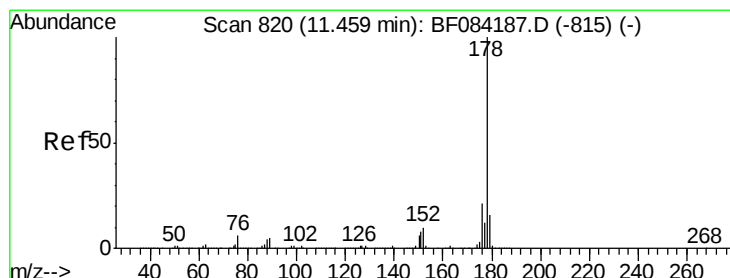
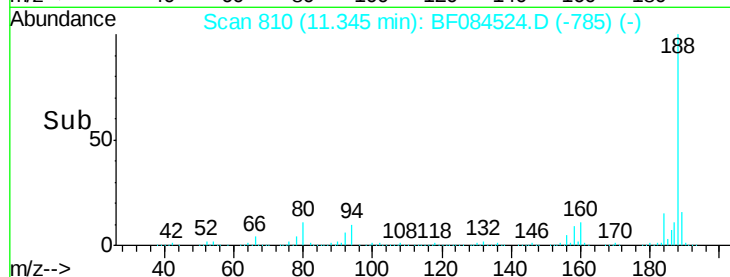
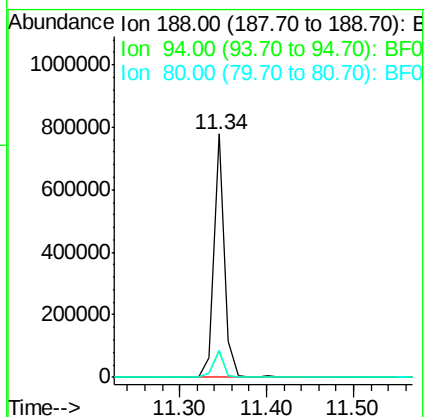
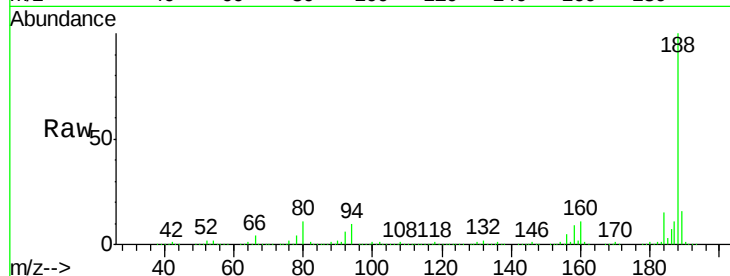




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF084524.D
Acq: 16 Jan 2016 7:13

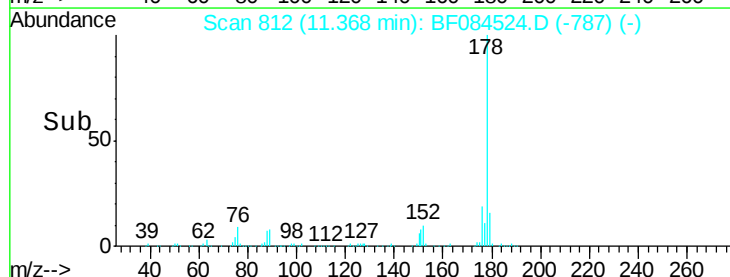
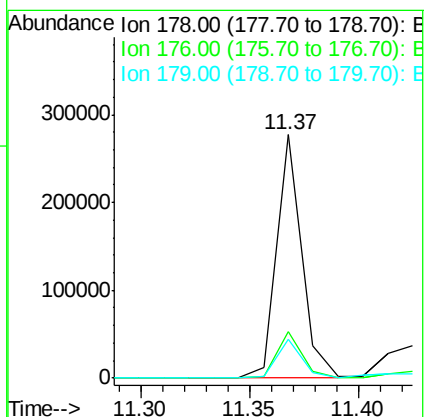
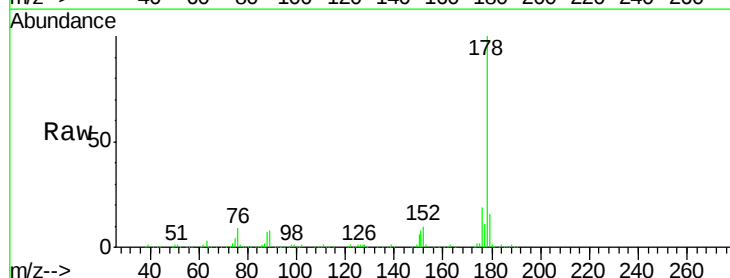
Instrument :
BNA_F
ClientSampleId :
POST-EX-6-20160113

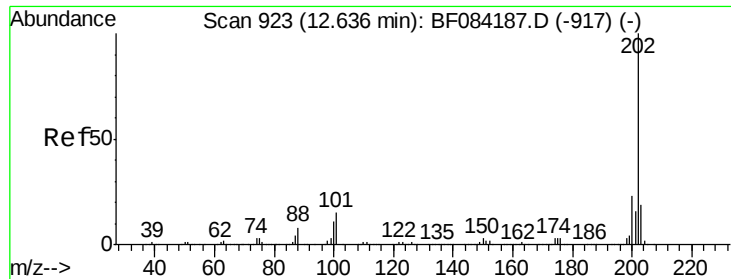
Tgt Ion:188 Resp: 664908
Ion Ratio Lower Upper
188 100
94 10.4 9.0 13.4
80 11.1 9.6 14.4



#70
Phenanthrene
Concen: 6.48 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF084524.D
Acq: 16 Jan 2016 7:13

Tgt Ion:178 Resp: 225288
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.9 12.0 18.0





#74

Fluoranthene

Concen: 9.04 ng

RT: 12.56 min Scan# 916

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

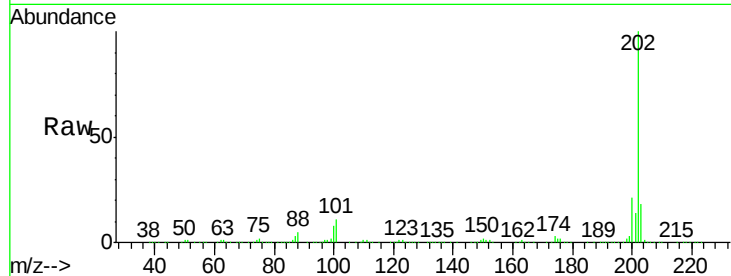
Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

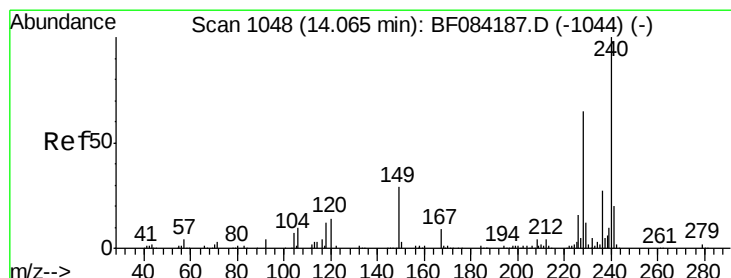
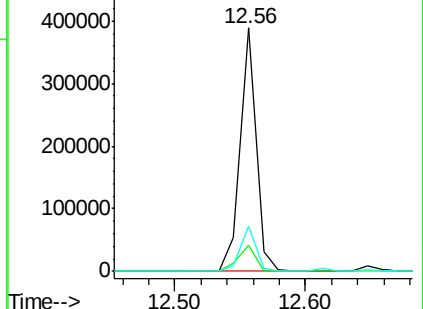
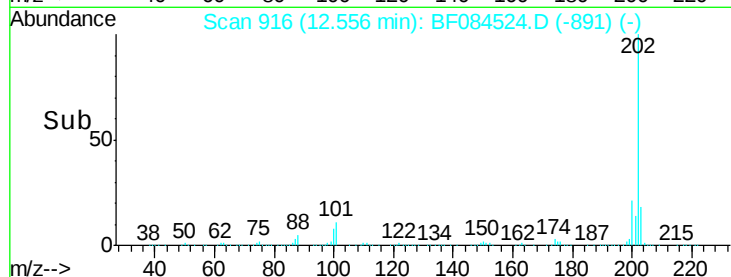
Tgt Ion:	202	Resp:	328291
Ion Ratio	Lower	Upper	
202	100		
101	10.8	0.0	32.8
203	18.3	0.0	37.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

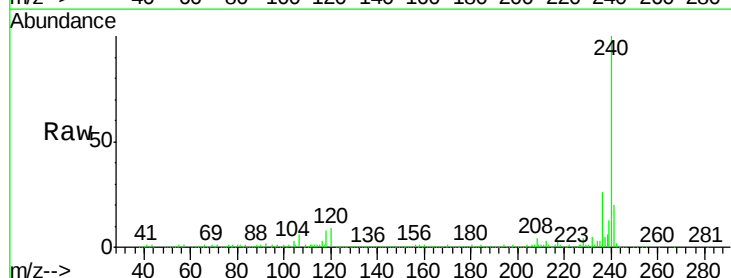
RT: 13.99 min Scan# 1041

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

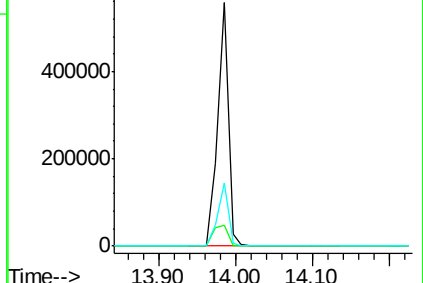
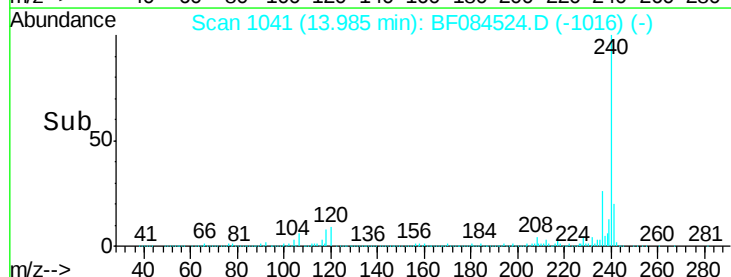
Tgt Ion:	240	Resp:	542312
Ion Ratio	Lower	Upper	
240	100		
120	8.8	9.5	14.3#
236	26.0	20.6	31.0

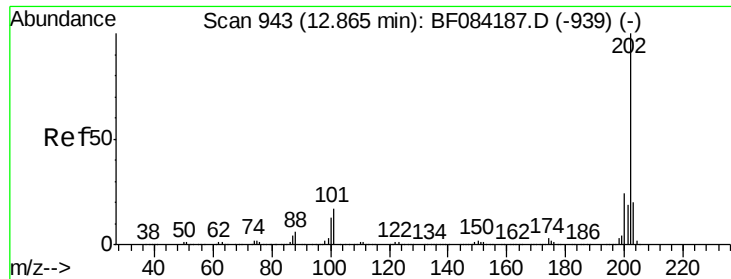


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

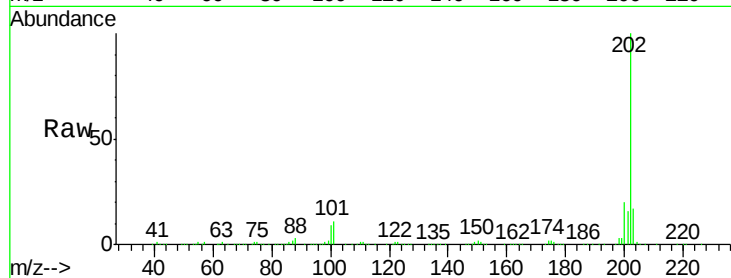




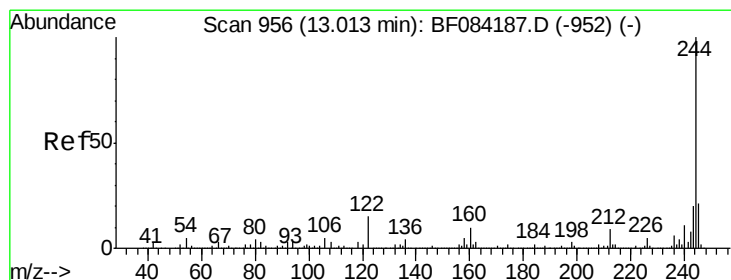
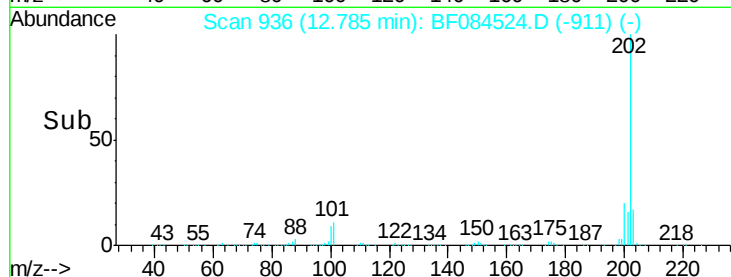
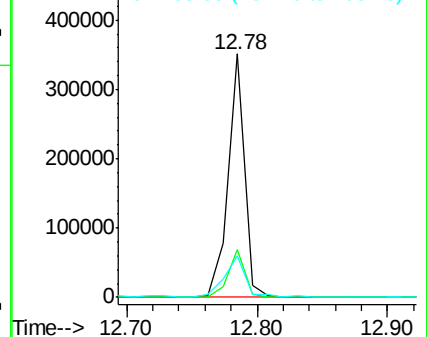
#77
 Pyrene
 Concen: 7.32 ng
 RT: 12.78 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: BF084524.D
 Acq: 16 Jan 2016 7:13

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-6-20160113

Tgt Ion: 202 Resp: 311523
 Ion Ratio Lower Upper
 202 100
 200 19.6 17.2 25.8
 203 16.9 14.3 21.5

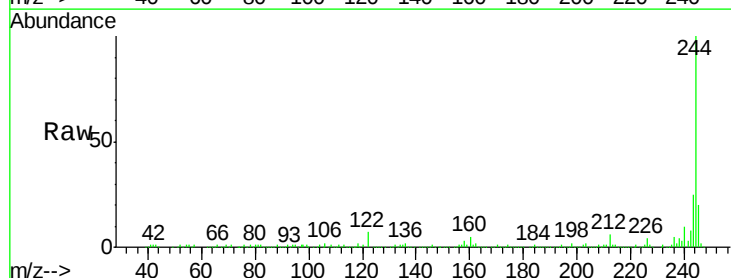


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

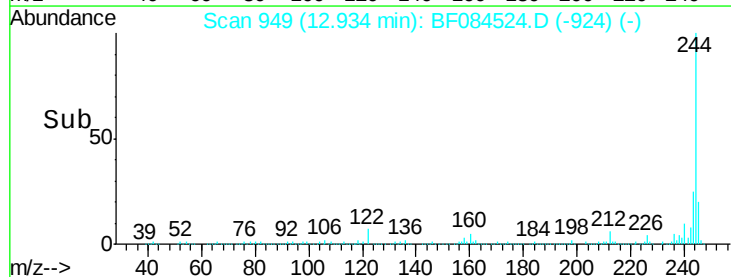
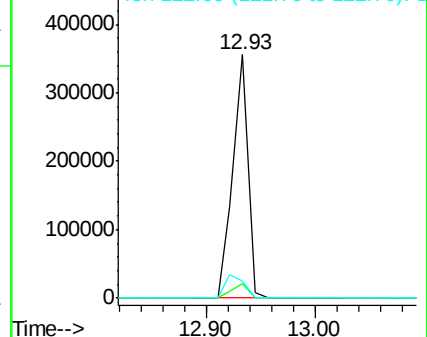


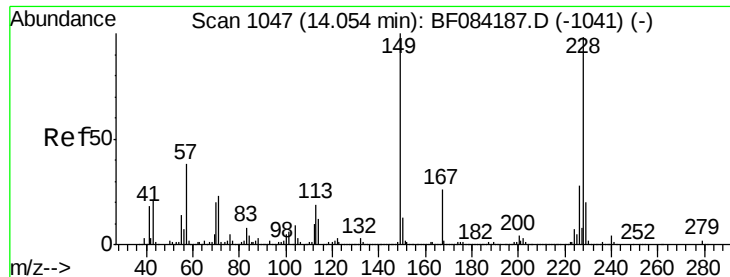
#78
 Terphenyl-d14
 Concen: 14.16 ng
 RT: 12.93 min Scan# 949
 Delta R.T. -0.01 min
 Lab File: BF084524.D
 Acq: 16 Jan 2016 7:13

Tgt Ion: 244 Resp: 343930
 Ion Ratio Lower Upper
 244 100
 212 5.9 5.7 8.5
 122 7.2 7.4 11.0#



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: 5.70 ng

RT: 13.97 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

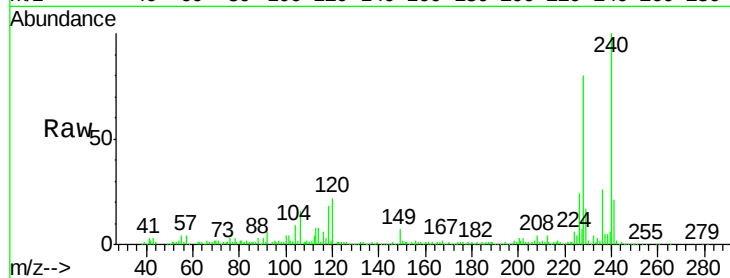
Tgt Ion:228 Resp: 181500

Ion Ratio Lower Upper

228 100

226 30.3 21.8 32.6

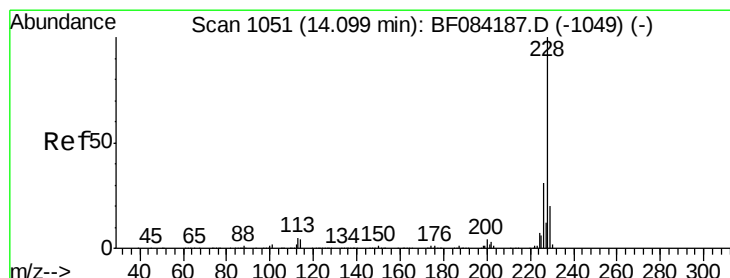
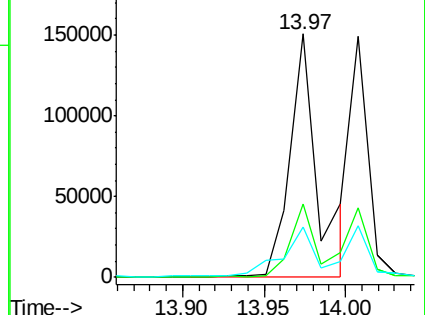
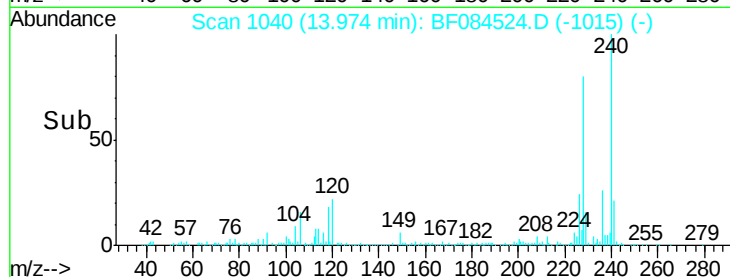
229 20.8 15.8 23.8



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: 3.73 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

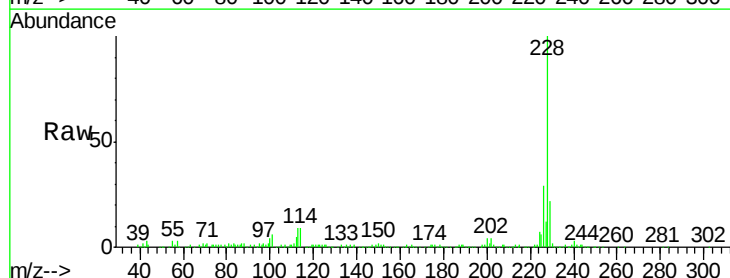
Tgt Ion:228 Resp: 114196

Ion Ratio Lower Upper

228 100

226 29.1 24.3 36.5

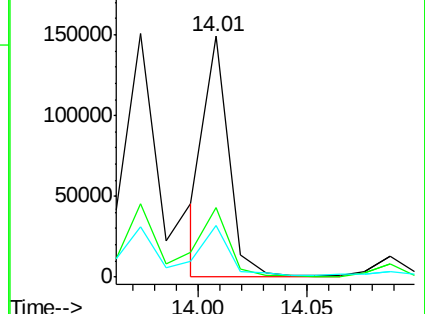
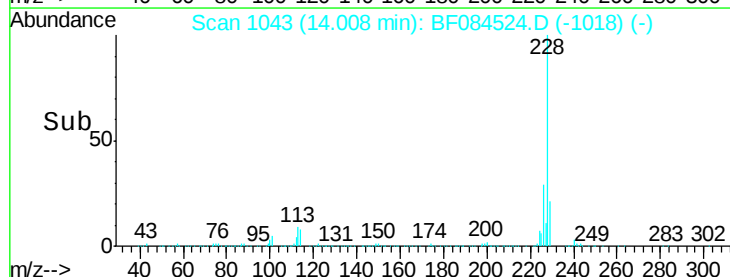
229 21.7 16.1 24.1

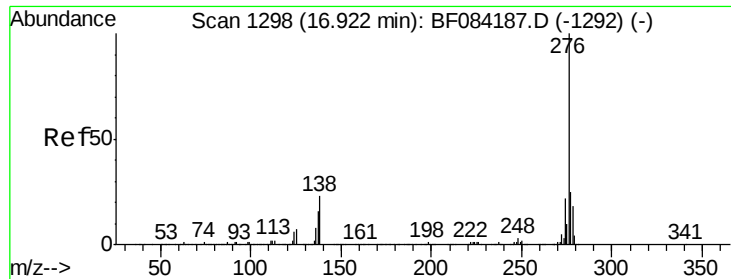


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

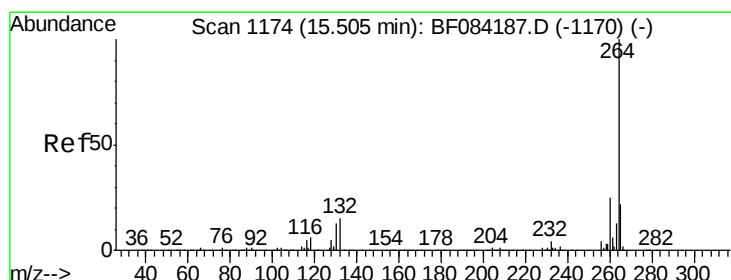
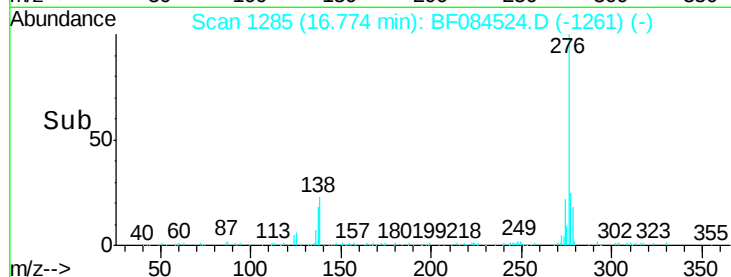
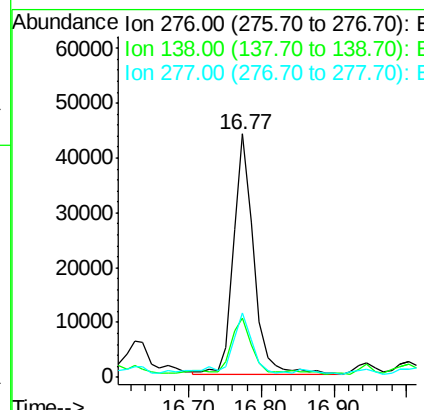
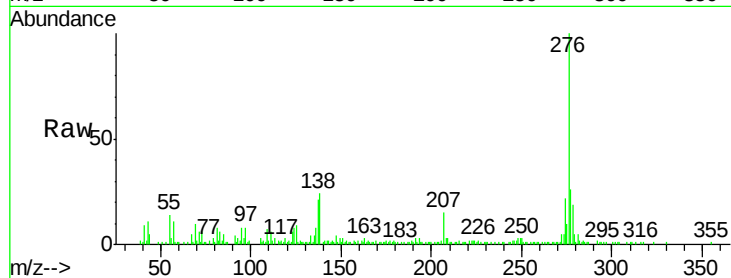




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.50 ng
 RT: 16.77 min Scan# 1285
 Delta R.T. -0.02 min
 Lab File: BF084524.D
 Acq: 16 Jan 2016 7:13

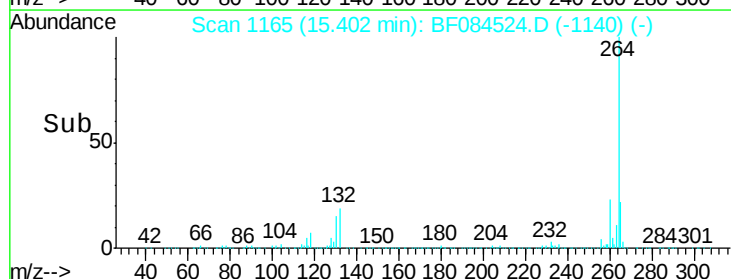
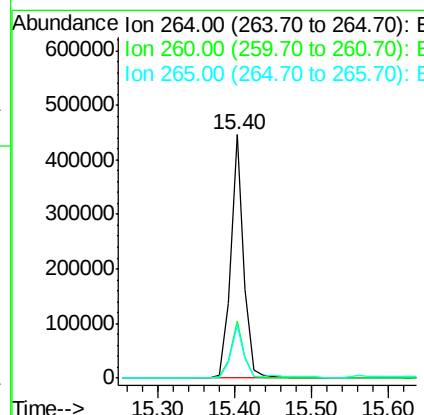
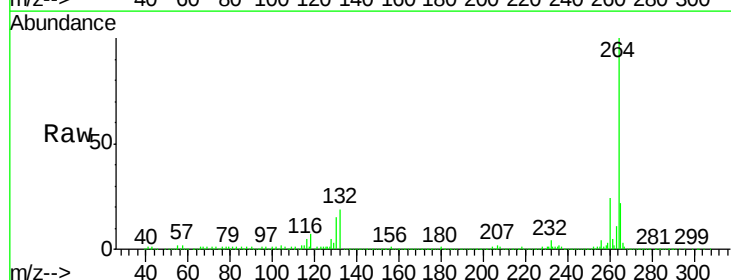
Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-6-20160113

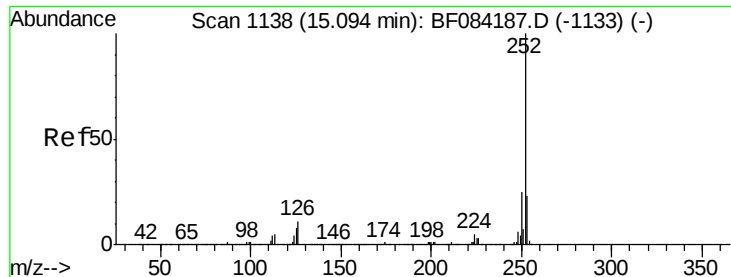
Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.0	20.6	30.8
277	25.0	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.40 min Scan# 1165
 Delta R.T. -0.01 min
 Lab File: BF084524.D
 Acq: 16 Jan 2016 7:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.2
265	22.0	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 7.14 ng

RT: 15.00 min Scan# 1130

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

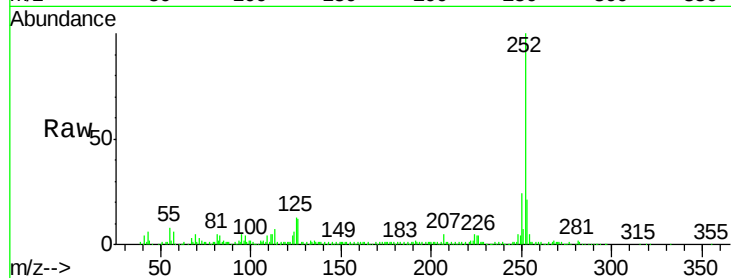
Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

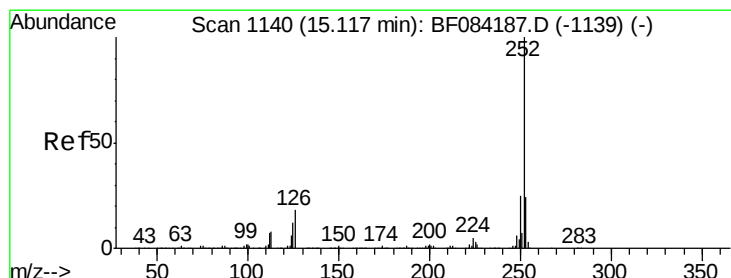
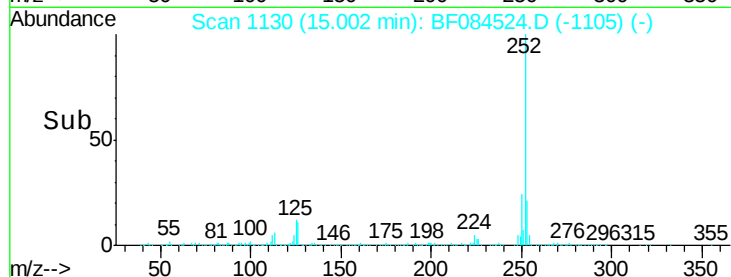
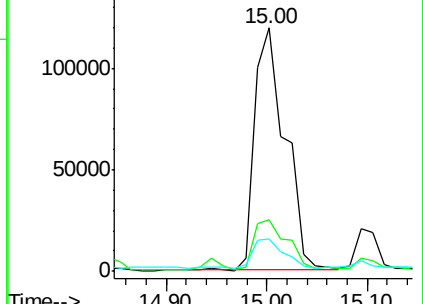
Tgt Ion:	252	Resp:	252185
Ion Ratio	Lower	Upper	
252	100		
253	21.3	17.3	25.9
125	13.1	6.5	9.7#



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



#88

Benzo(k)fluoranthene

Concen: 8.72 ng

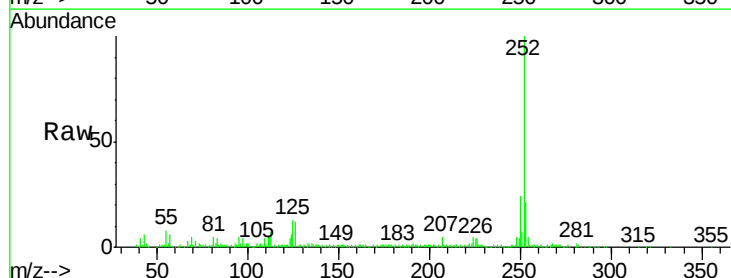
RT: 15.00 min Scan# 1130

Delta R.T. -0.03 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

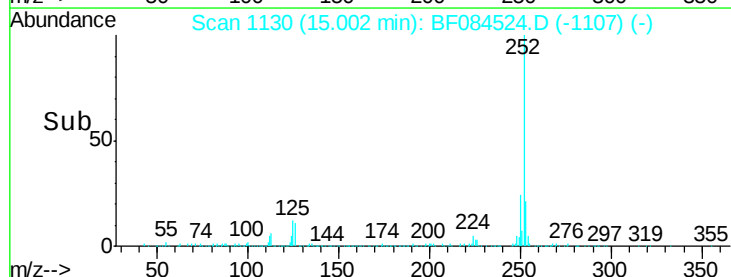
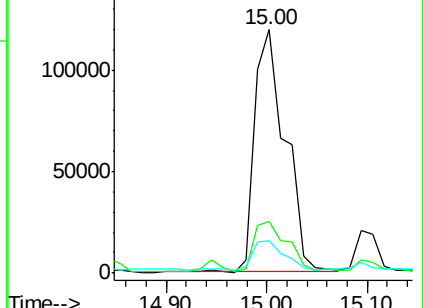
Tgt Ion:	252	Resp:	252185
Ion Ratio	Lower	Upper	
252	100		
253	21.3	18.1	27.1
125	13.1	9.0	13.6

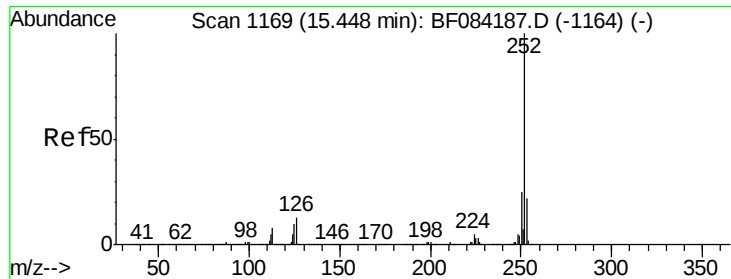


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.53 ng

RT: 15.35 min Scan# 1160

Delta R.T. -0.01 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

Instrument :

BNA_F

ClientSampleId :

POST-EX-6-20160113

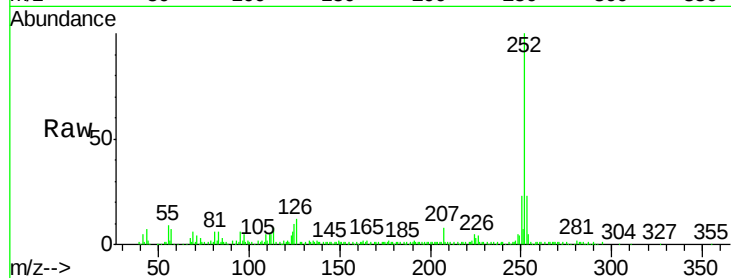
Tgt Ion:252 Resp: 135747

Ion Ratio Lower Upper

252 100

253 23.2 17.3 25.9

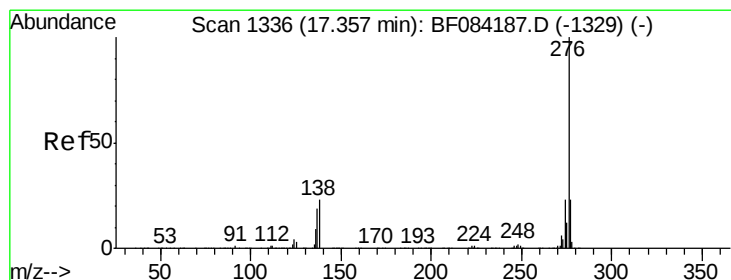
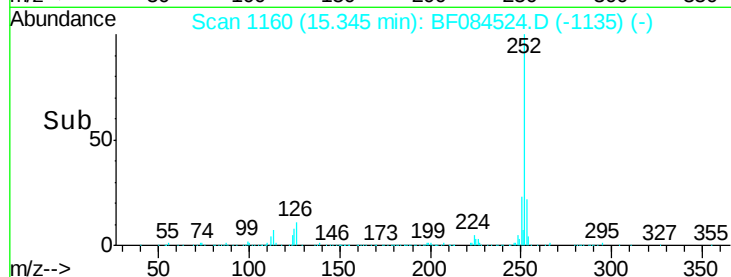
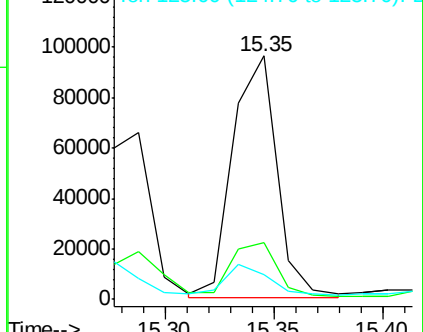
125 10.0 7.0 10.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.96 ng

RT: 17.19 min Scan# 1321

Delta R.T. -0.03 min

Lab File: BF084524.D

Acq: 16 Jan 2016 7:13

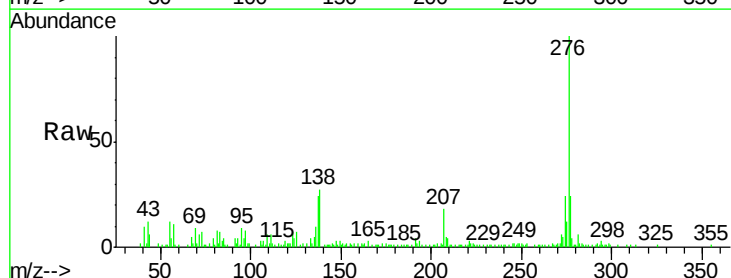
Tgt Ion:276 Resp: 79087

Ion Ratio Lower Upper

276 100

277 23.7 18.8 28.2

138 27.3 17.8 26.6#



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

