

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030416\
 Data File : BF085235.D
 Acq On : 5 Mar 2016 6:21
 Operator : SJ/IZ
 Sample : H1683-02
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 06 23:48:14 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 00:54:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	170218	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	686251	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	291793	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	497999	20.00	ng	-0.01
75) Chrysene-d12	14.13	240	318918	20.00	ng	-0.02
86) Perylene-d12	15.60	264	290324	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	1615609	159.21	ng	0.00
7) Phenol-d6	6.60	99	1569686	118.06	ng	-0.01
23) Nitrobenzene-d5	7.53	82	1087921	84.83	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	391657	156.87	ng	-0.01
44) 2-Fluorobiphenyl	9.33	172	1509907	78.70	ng	-0.02
78) Terphenyl-d14	13.08	244	1022986	74.46	ng	-0.01

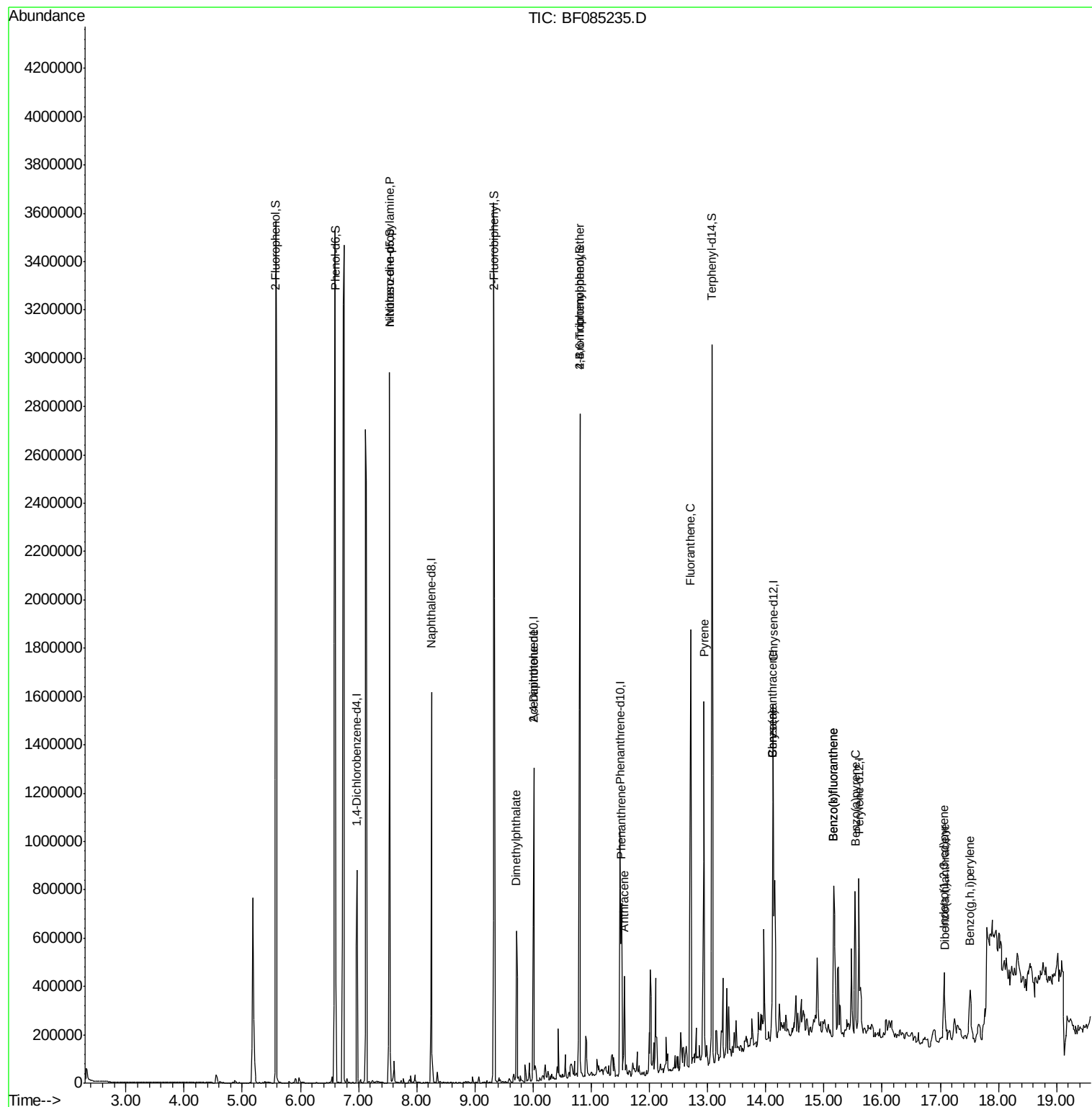
Target Compounds				Qvalue		
9) Benzaldehyde	6.60	77	2375	Below Cal	#	2
19) n-Nitroso-di-n-propylamine	7.53	70	149588	17.26	ng	# 78
49) Dimethylphthalate	9.72	163	335691	14.99	ng	99
56) 2,4-Dinitrotoluene	10.01	165	38338	6.25	ng	# 22
66) 4-Bromophenyl-phenylether	10.80	248	28511	5.90	ng	# 1
70) Phenanthrene	11.52	178	364108	13.95	ng	97
71) Anthracene	11.57	178	149869	5.41	ng	97
74) Fluoranthene	12.71	202	836294	31.93	ng	96
77) Pyrene	12.94	202	722929	30.12	ng	98
80) Benzo(a)anthracene	14.12	228	406227	21.28	ng	99
82) Chrysene	14.12	228	406227	23.03	ng	96
85) Indeno(1,2,3-cd)pyrene	17.07	276	169047	12.28	ng	91
87) Benzo(b)fluoranthene	15.17	252	502524	25.97	ng	99
88) Benzo(k)fluoranthene	15.17	252	502524	32.20	ng	97
89) Benzo(a)pyrene	15.53	252	277152	17.28	ng	# 94
90) Dibenzo(a,h)anthracene	17.08	278	41599	3.04	ng	# 90
91) Benzo(g,h,i)perylene	17.51	276	158837	11.54	ng	98

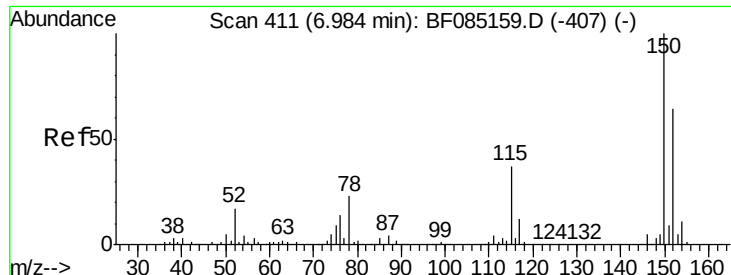
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.97 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

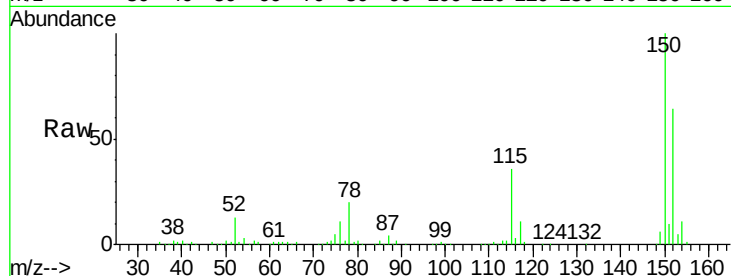
Tgt Ion:152 Resp: 170218

Ion Ratio Lower Upper

152 100

150 155.3 124.6 186.8

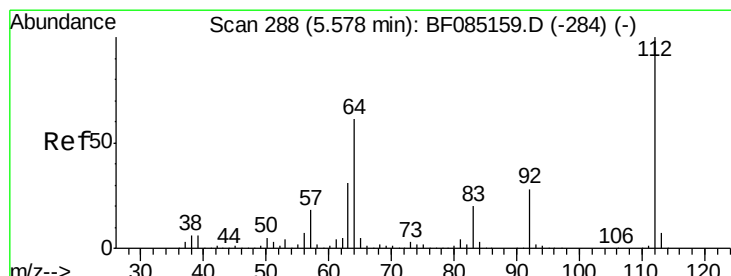
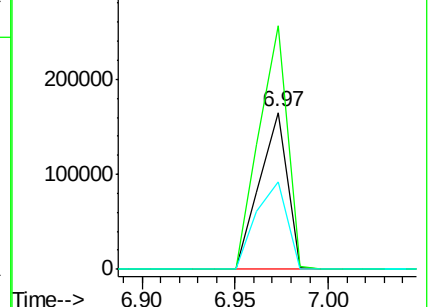
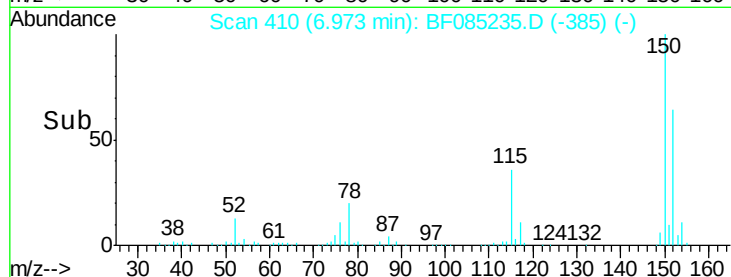
115 55.7 46.6 70.0



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: 159.21 ng

RT: 5.58 min Scan# 288

Delta R.T. 0.00 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

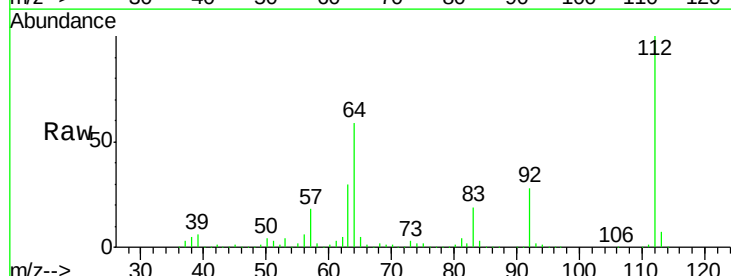
Tgt Ion:112 Resp: 1615609

Ion Ratio Lower Upper

112 100

64 59.0 49.0 73.4

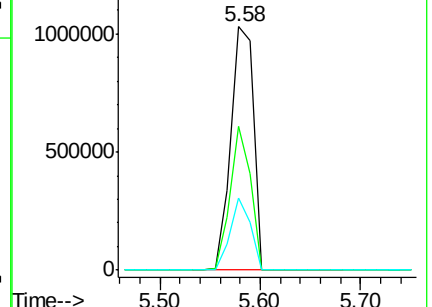
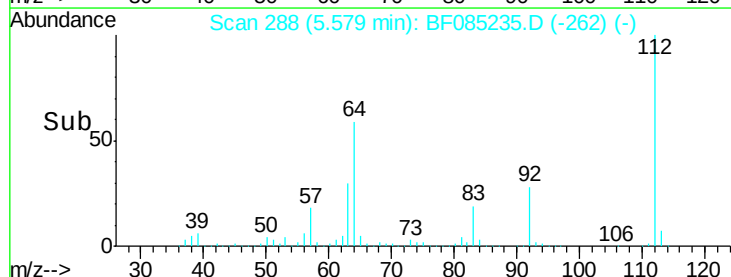
63 29.9 24.8 37.2

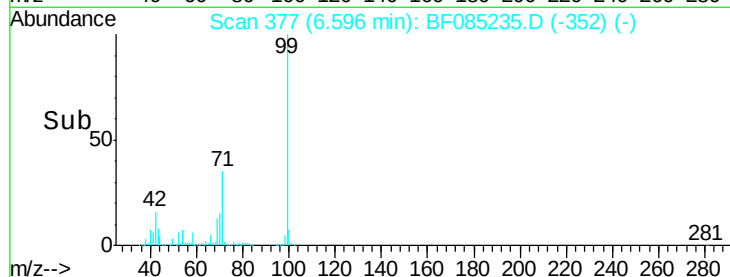
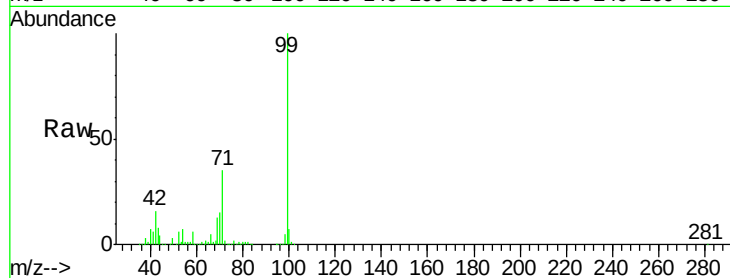
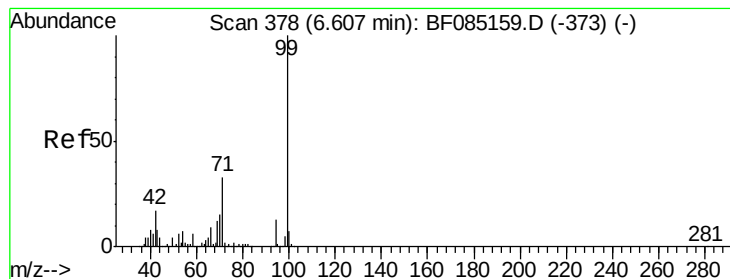


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 118.06 ng

RT: 6.60 min Scan# 377

Delta R.T. -0.01 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

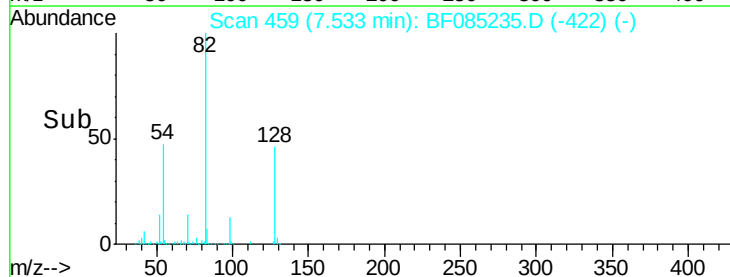
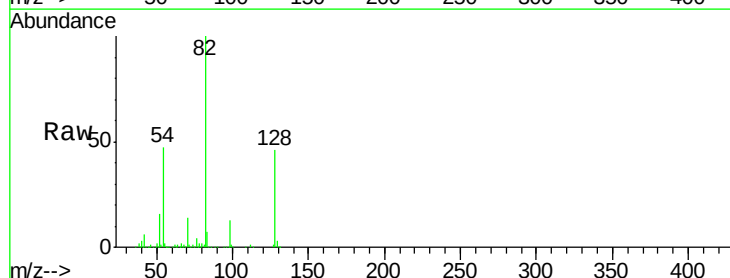
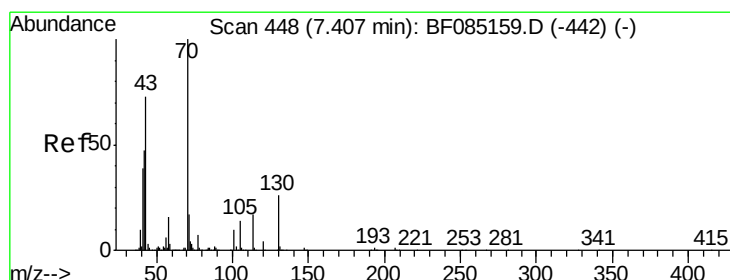
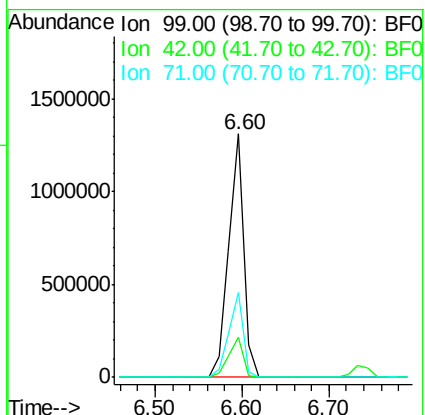
Tgt Ion: 99 Resp: 1569686

Ion Ratio Lower Upper

99 100

42 16.5 13.6 20.4

71 35.0 26.7 40.1



#19

n-Nitroso-di-n-propylamine

Concen: 17.26 ng

RT: 7.53 min Scan# 459

Delta R.T. 0.13 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Tgt Ion: 70 Resp: 149588

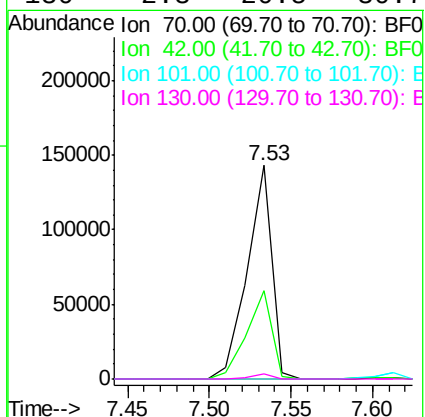
Ion Ratio Lower Upper

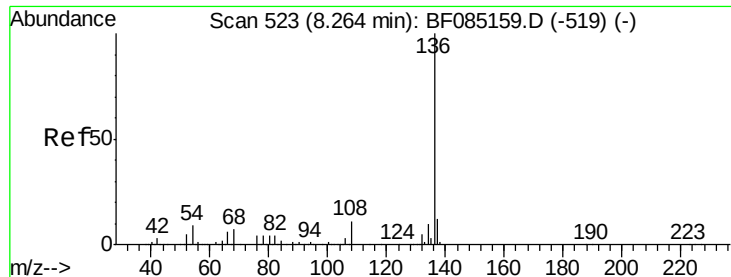
70 100

42 41.4 37.7 56.5

101 0.0 8.2 12.4#

130 2.3 20.5 30.7#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.25 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF085235.D

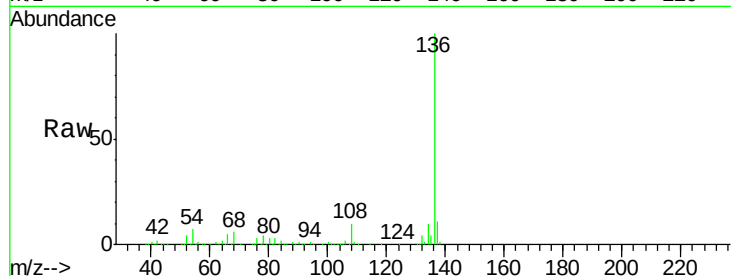
Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

Tgt Ion:	136	Resp:	686251
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.3	13.9
54	7.4	7.4	11.2#
68	6.3	6.0	9.0

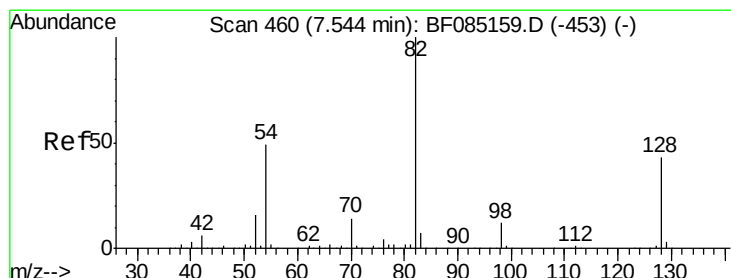
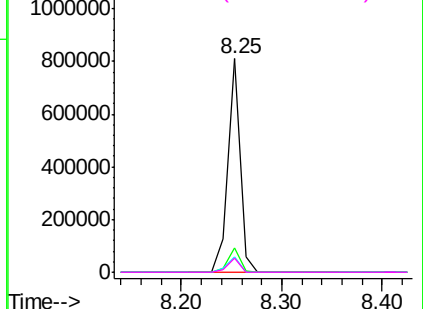
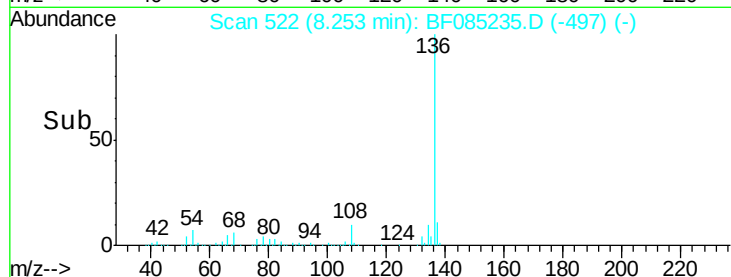


Abundance Ion 136.00 (135.70 to 136.70): E

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: 84.83 ng

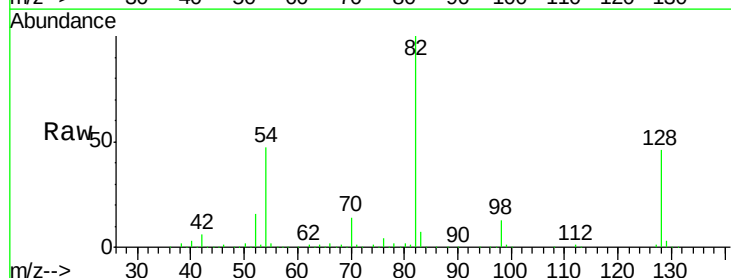
RT: 7.53 min Scan# 459

Delta R.T. -0.01 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

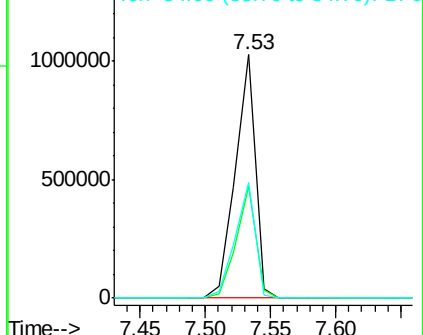
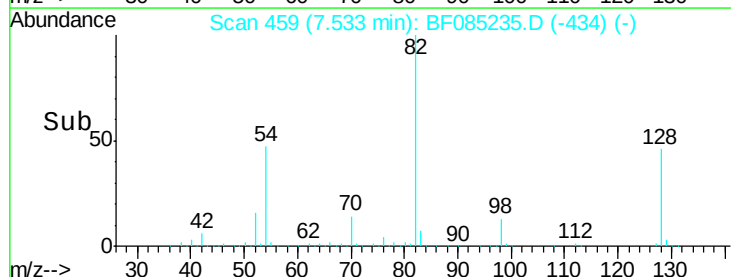
Tgt Ion:	82	Resp:	1087921
Ion Ratio	Lower	Upper	
82	100		
128	45.8	34.5	51.7
54	47.3	39.3	58.9

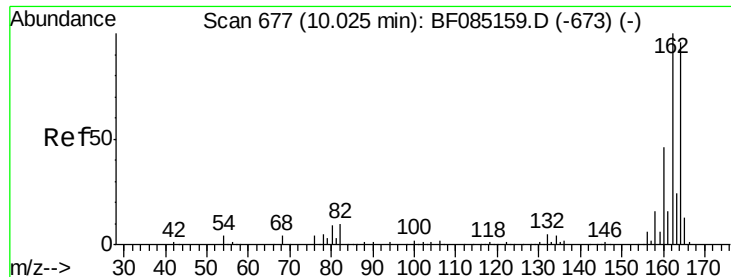


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

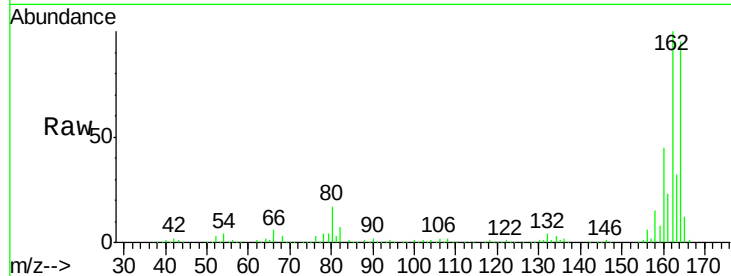




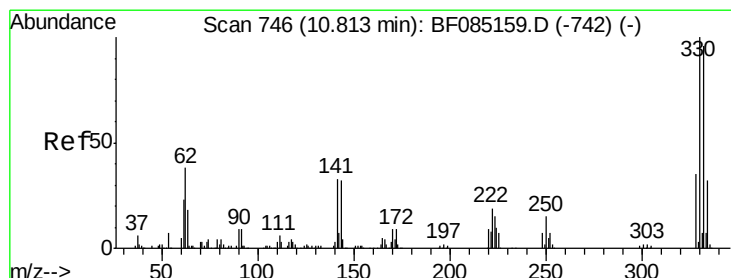
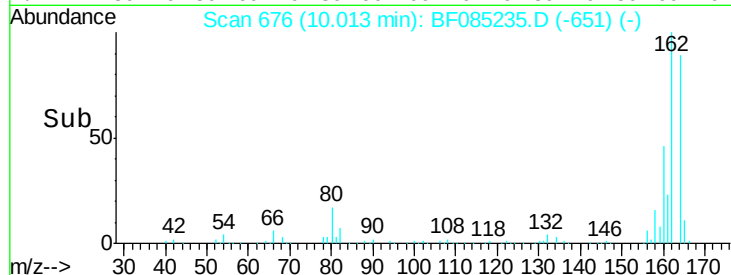
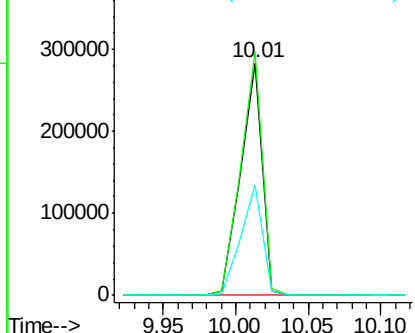
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.01 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion:164 Resp: 291793
 Ion Ratio Lower Upper
 164 100
 162 104.9 83.3 124.9
 160 47.5 37.9 56.9

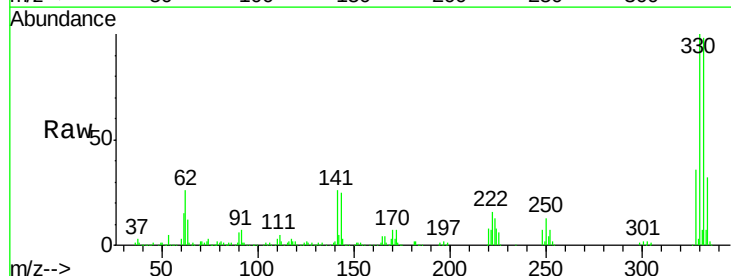


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

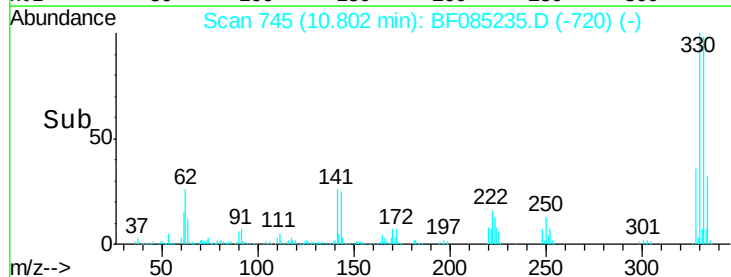
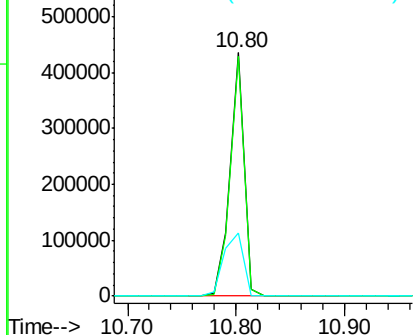


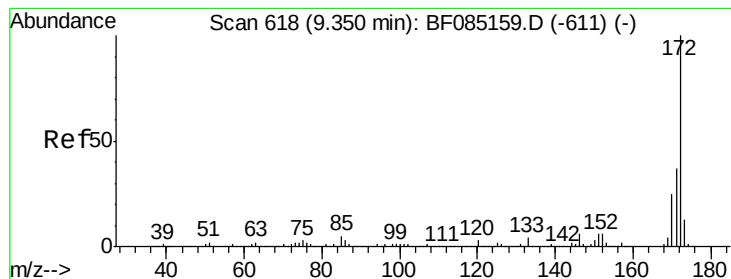
#41
 2,4,6-Tribromophenol
 Concen: 156.87 ng
 RT: 10.80 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

Tgt Ion:330 Resp: 391657
 Ion Ratio Lower Upper
 330 100
 332 97.7 77.1 115.7
 141 36.9 35.0 52.6



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: 78.70 ng

RT: 9.33 min Scan# 616

Delta R.T. -0.02 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

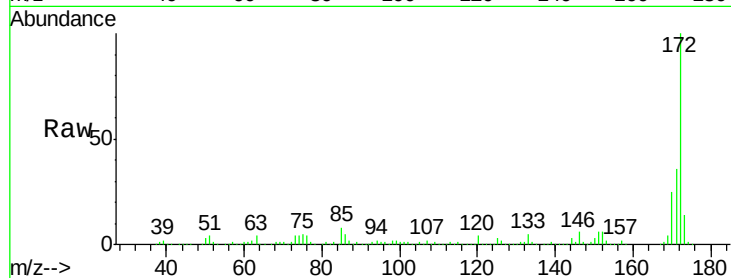
Tgt Ion:172 Resp: 1509907

Ion Ratio Lower Upper

172 100

171 36.5 29.3 43.9

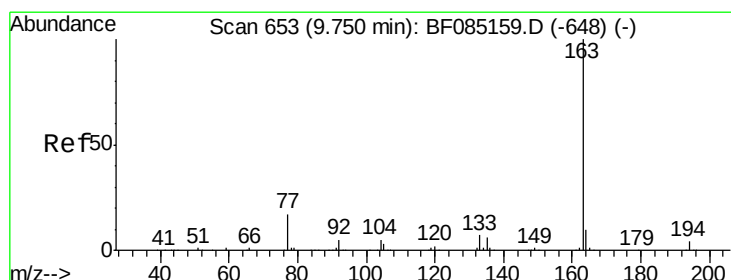
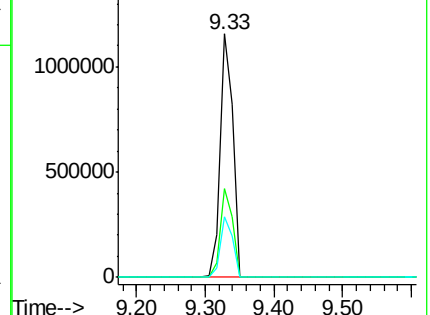
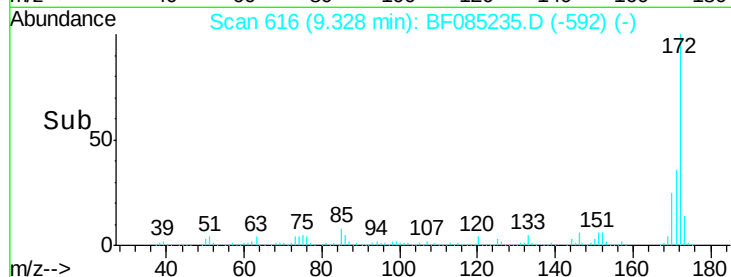
170 24.7 20.0 30.0



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: 14.99 ng

RT: 9.72 min Scan# 650

Delta R.T. -0.03 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

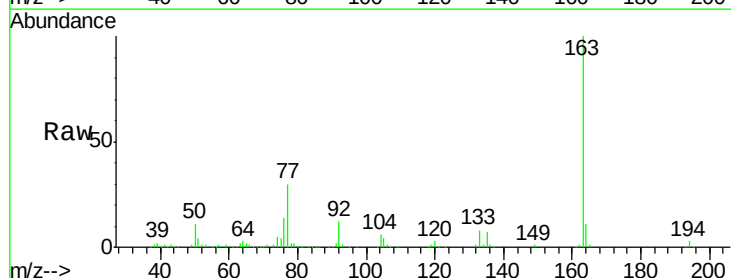
Tgt Ion:163 Resp: 335691

Ion Ratio Lower Upper

163 100

194 3.2 3.1 4.7

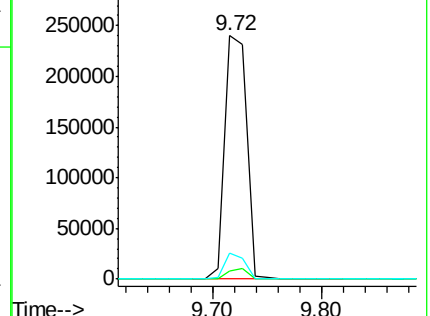
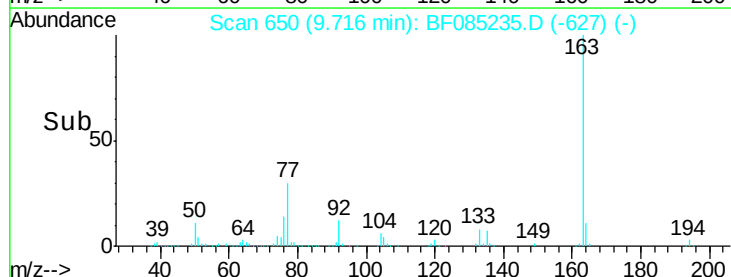
164 10.5 8.2 12.4

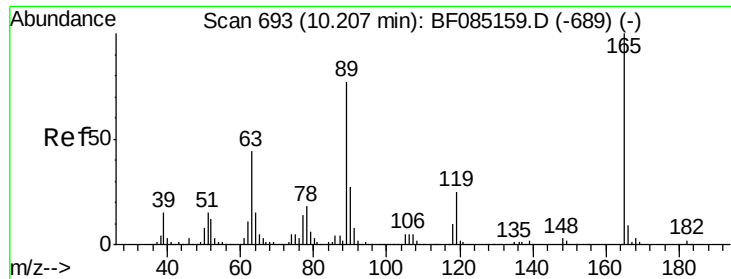


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

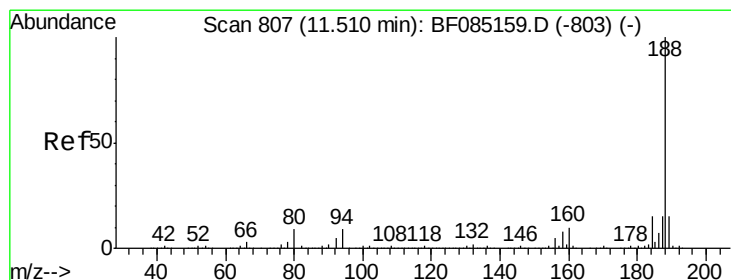
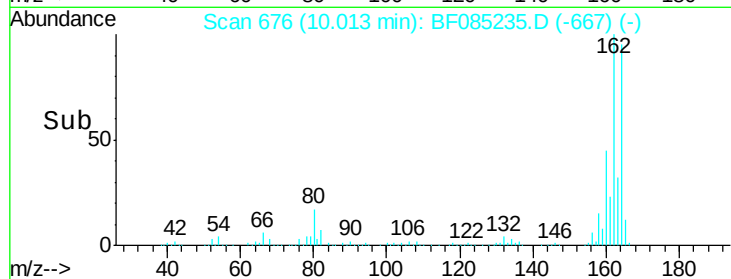
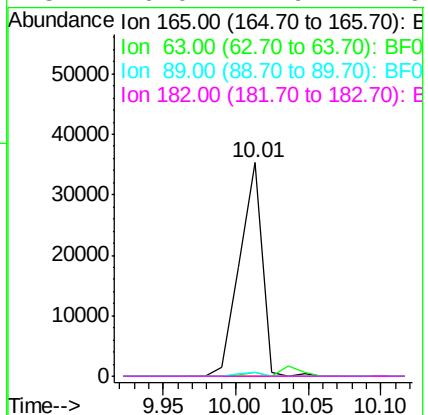
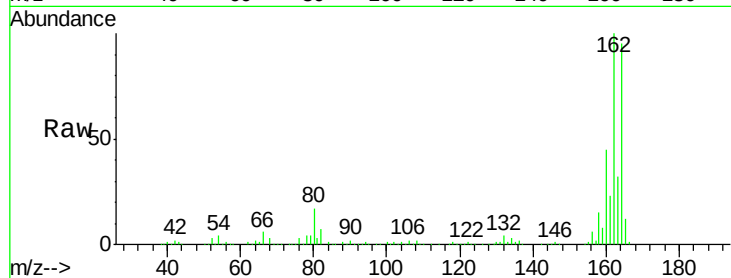




#56
 2,4-Dinitrotoluene
 Concen: 6.25 ng
 RT: 10.01 min Scan# 676
 Delta R.T. -0.19 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

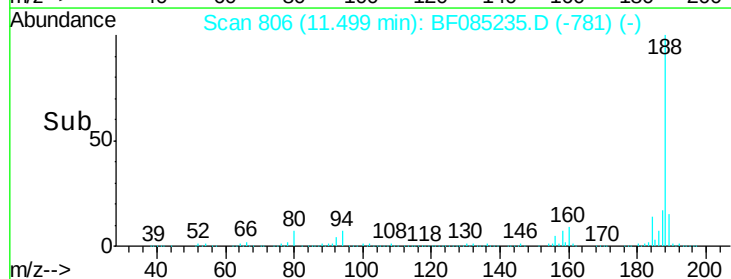
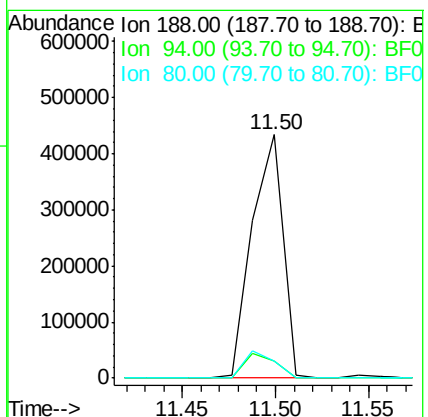
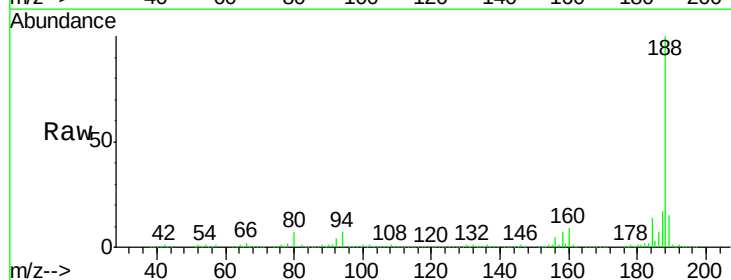
Instrument :
 BNA_F
 ClientSampleId :

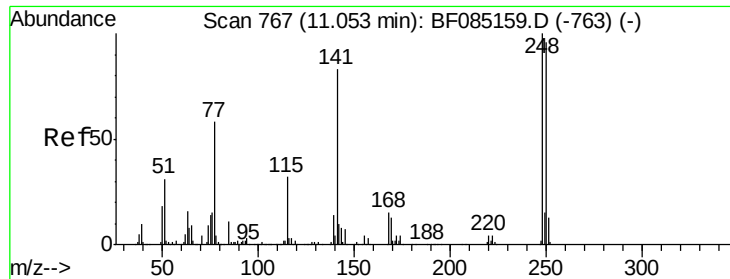
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.7	35.4	53.0#
89	1.9	61.9	92.9#
182	0.0	1.9	2.9#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.50 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.0	7.0	10.6#
80	6.9	7.4	11.0#

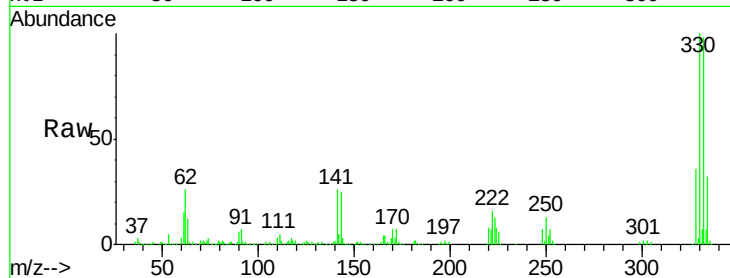




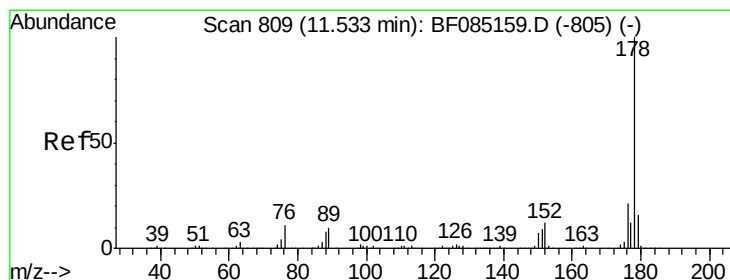
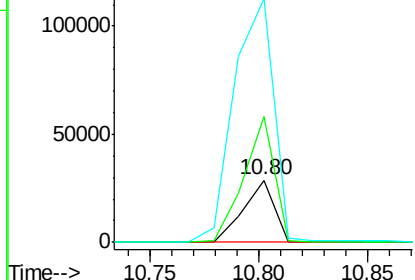
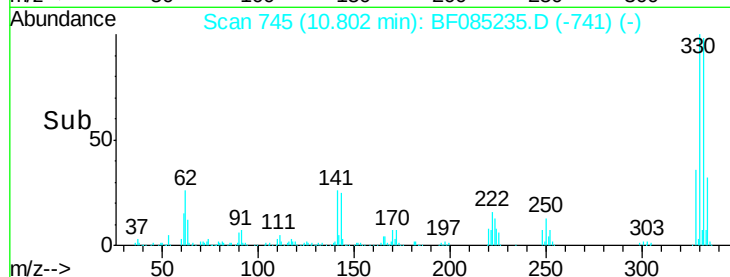
#66
4-Bromophenyl-phenylether
Concen: 5.90 ng
RT: 10.80 min Scan# 745
Delta R.T. -0.25 min
Lab File: BF085235.D
Acq: 5 Mar 2016 6:21

Instrument :
BNA_F
ClientSampled :

Tgt Ion:248 Resp: 28511
Ion Ratio Lower Upper
248 100
250 200.8 77.1 115.7#
141 390.4 66.2 99.2#

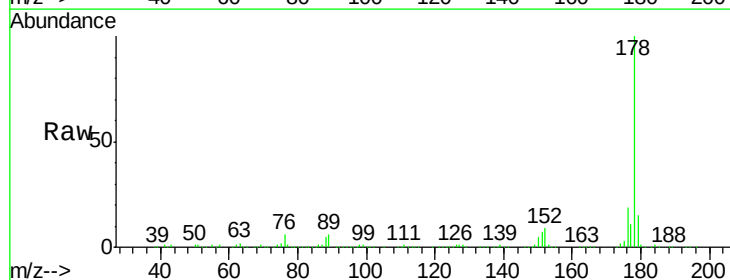


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

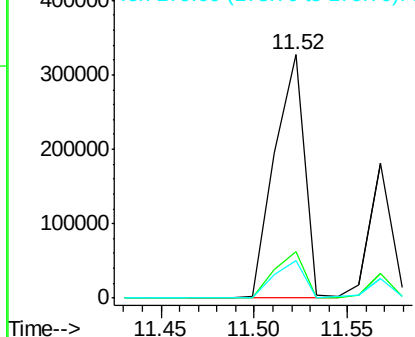
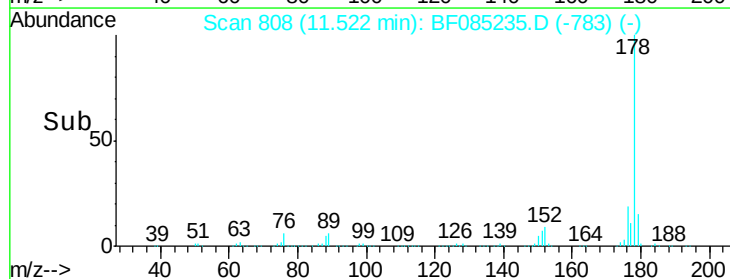


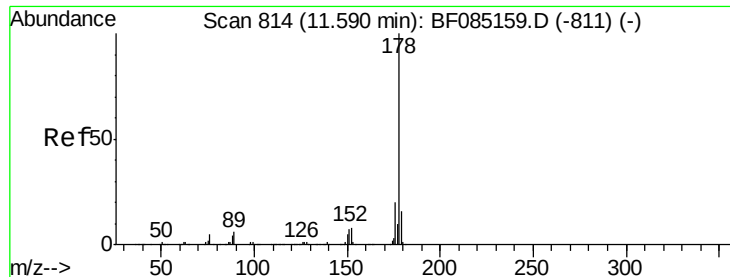
#70
Phenanthrene
Concen: 13.95 ng
RT: 11.52 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF085235.D
Acq: 5 Mar 2016 6:21

Tgt Ion:178 Resp: 364108
Ion Ratio Lower Upper
178 100
176 19.2 16.8 25.2
179 15.4 13.1 19.7



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

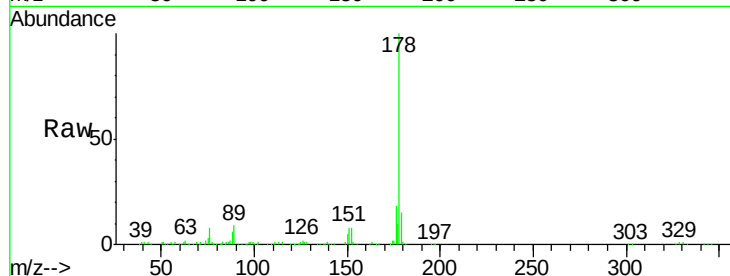




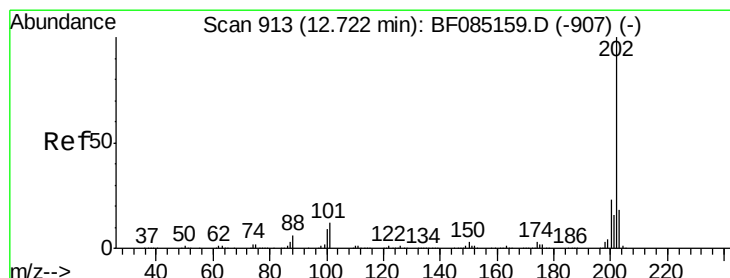
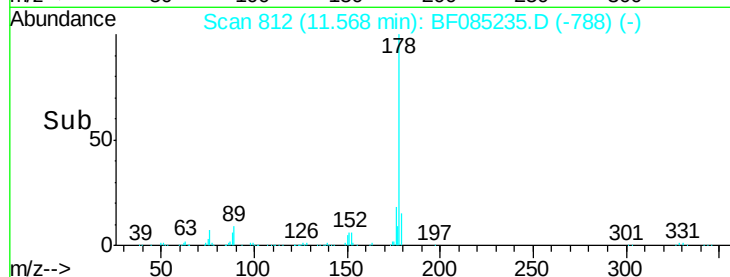
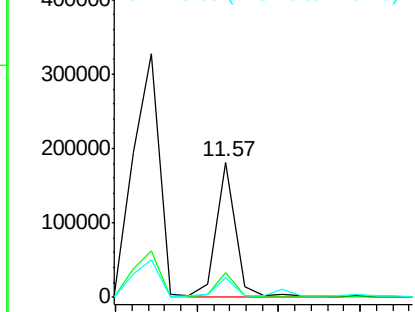
#71
 Anthracene
 Concen: 5.41 ng
 RT: 11.57 min Scan# 812
 Delta R.T. -0.02 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion:178 Resp: 149869
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.9 23.9
 179 14.7 12.5 18.7

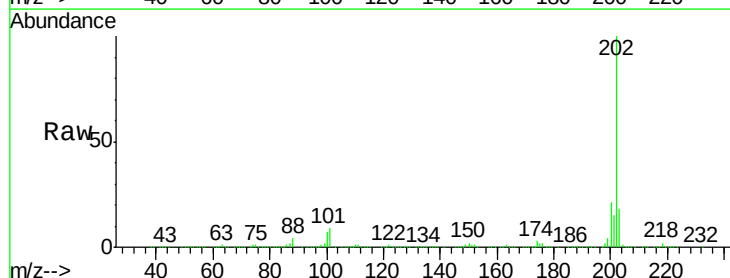


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

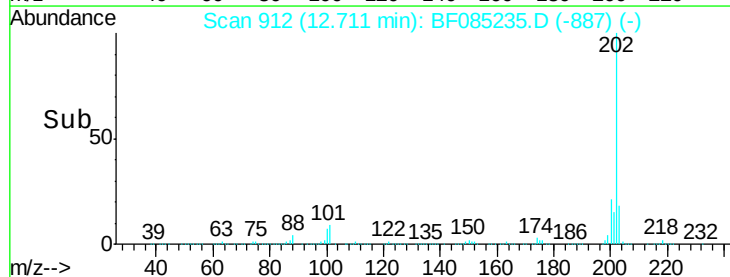
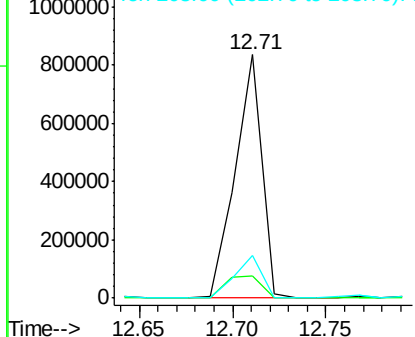


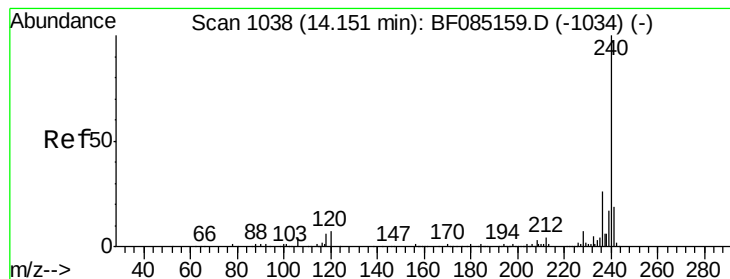
#74
 Fluoranthene
 Concen: 31.93 ng
 RT: 12.71 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

Tgt Ion:202 Resp: 836294
 Ion Ratio Lower Upper
 202 100
 101 9.3 0.0 31.8
 203 17.6 0.0 38.4



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: 14.13 min Scan# 1036

Delta R.T. -0.02 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

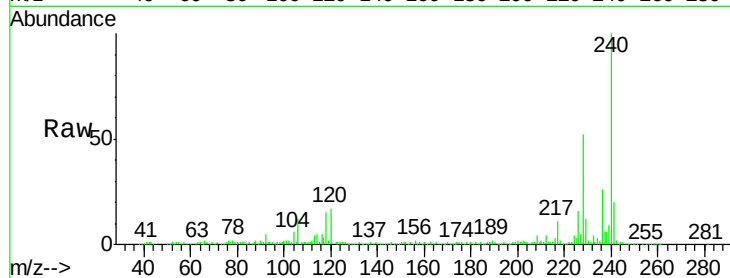
Tgt Ion:240 Resp: 318918

Ion Ratio Lower Upper

240 100

120 17.2 5.3 7.9#

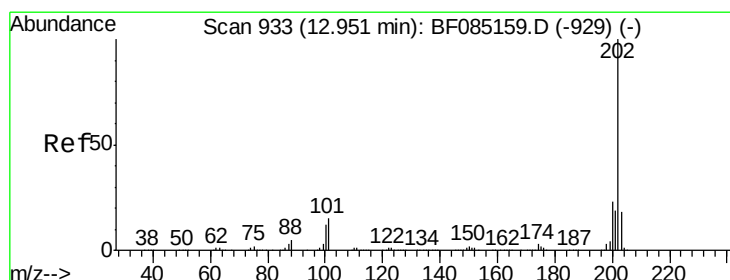
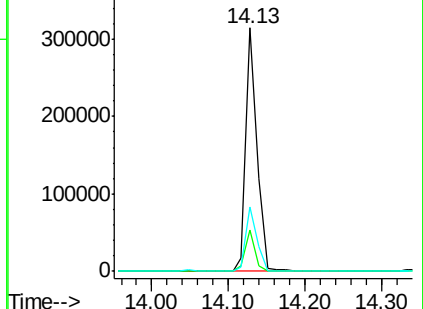
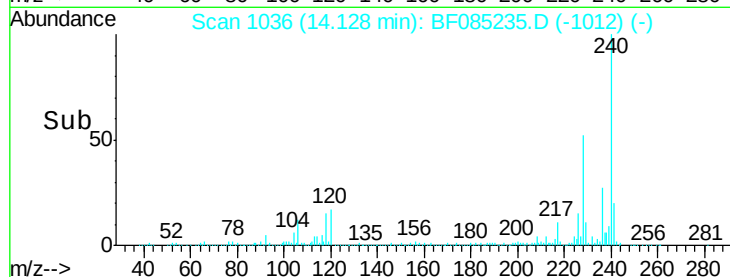
236 26.5 20.7 31.1



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: 30.12 ng

RT: 12.94 min Scan# 932

Delta R.T. -0.01 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

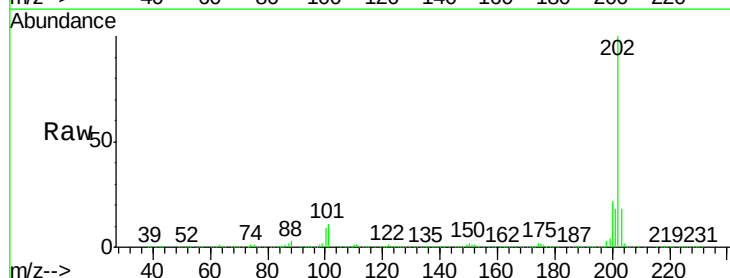
Tgt Ion:202 Resp: 722929

Ion Ratio Lower Upper

202 100

200 21.5 18.2 27.4

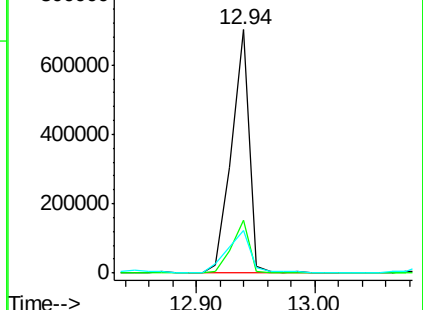
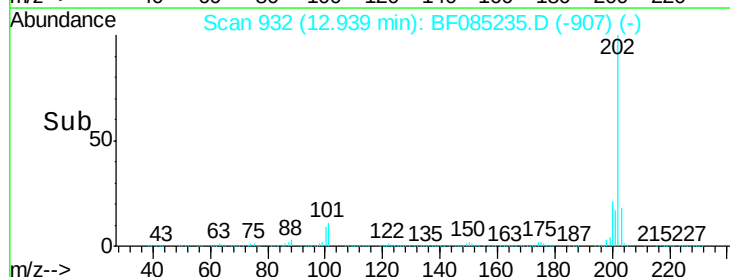
203 17.7 14.7 22.1

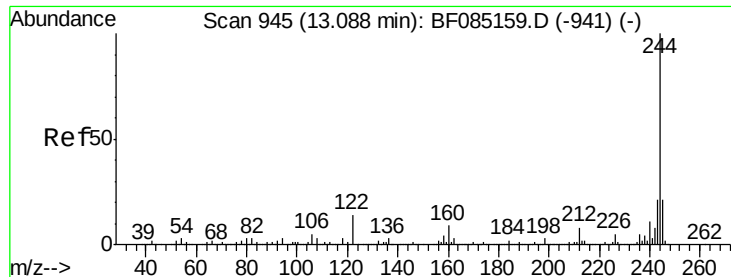


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

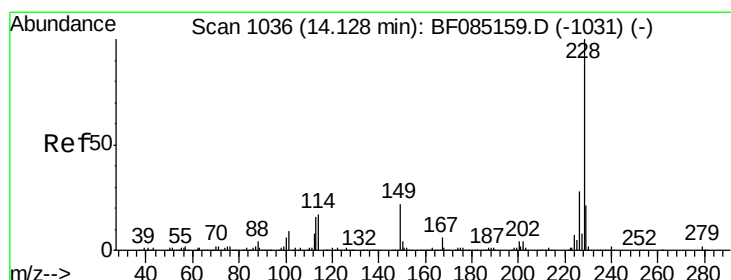
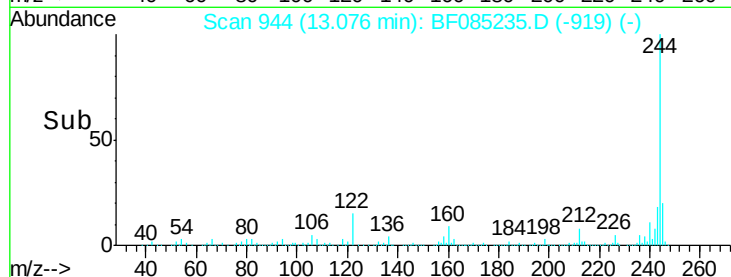
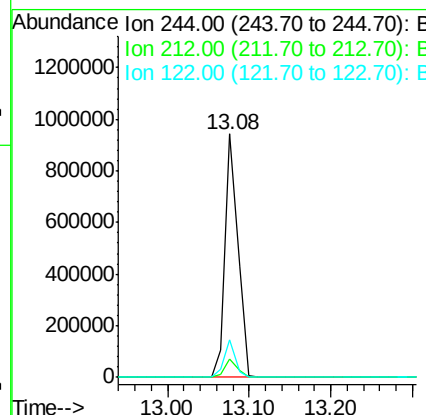
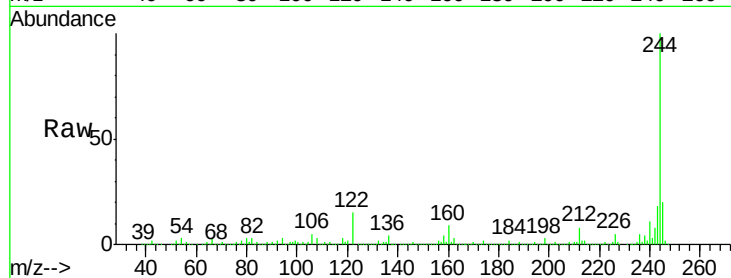




#78
 Terphenyl-d14
 Concen: 74.46 ng
 RT: 13.08 min Scan# 944
 Delta R.T. -0.01 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

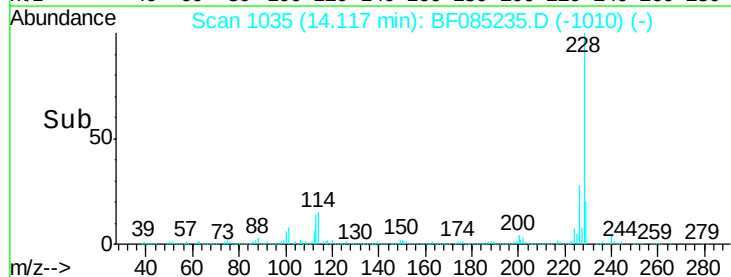
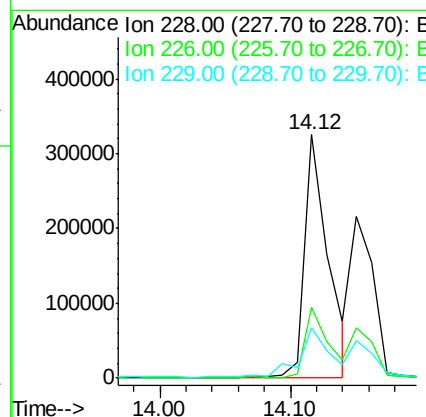
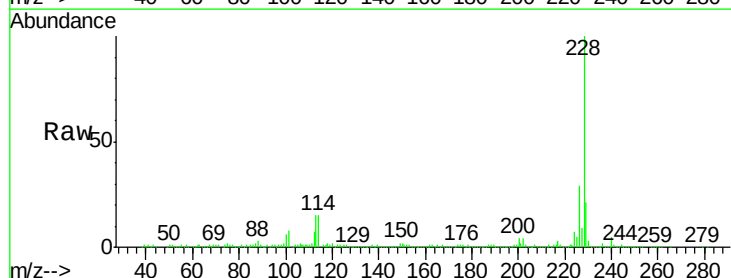
Instrument :
 BNA_F
 ClientSampleId :

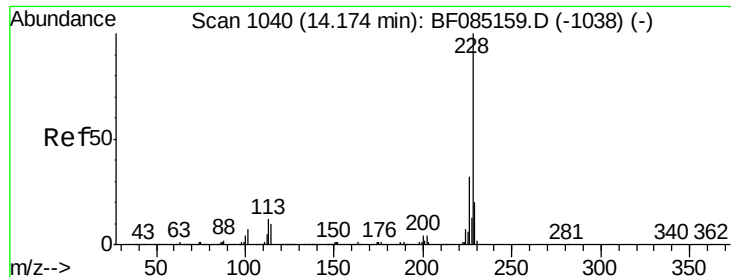
Tgt Ion:244 Resp: 1022986
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.4 9.6
 122 15.2 11.4 17.2



#80
 Benzo(a)anthracene
 Concen: 21.28 ng
 RT: 14.12 min Scan# 1035
 Delta R.T. -0.01 min
 Lab File: BF085235.D
 Acq: 5 Mar 2016 6:21

Tgt Ion:228 Resp: 406227
 Ion Ratio Lower Upper
 228 100
 226 29.0 22.8 34.2
 229 20.9 16.6 24.8





#82

Chrysene

Concen: 23.03 ng

RT: 14.12 min Scan# 1035

Delta R.T. -0.06 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

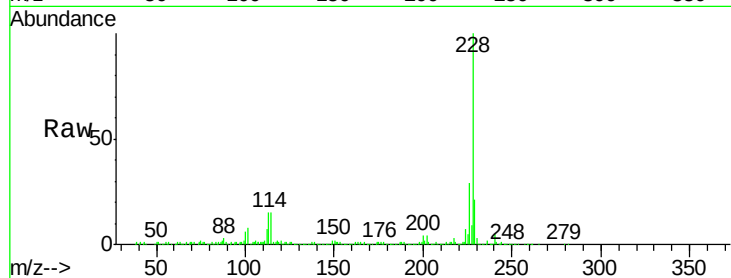
Tgt Ion: 228 Resp: 406227

Ion Ratio Lower Upper

228 100

226 29.0 25.2 37.8

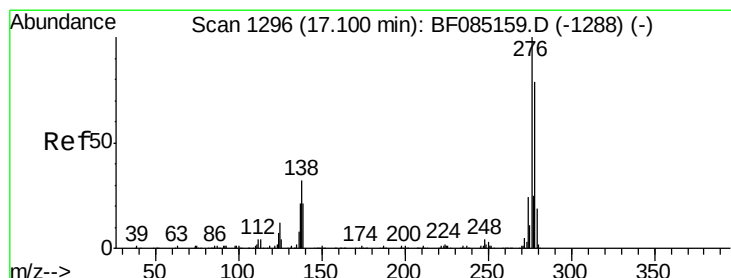
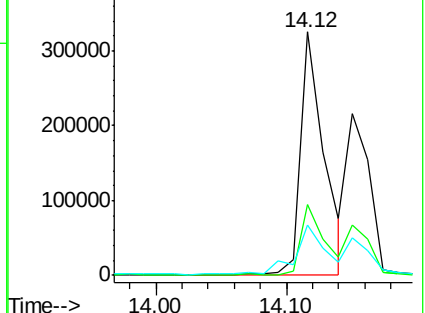
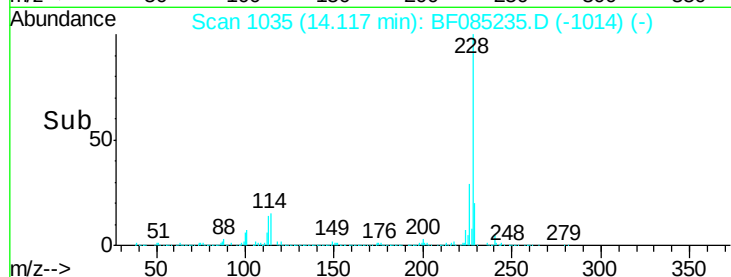
229 20.9 16.0 24.0



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: 12.28 ng

RT: 17.07 min Scan# 1293

Delta R.T. -0.03 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

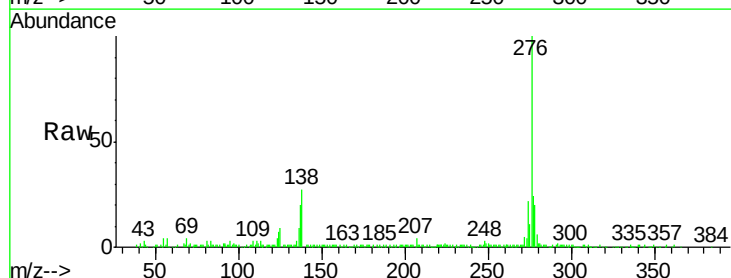
Tgt Ion: 276 Resp: 169047

Ion Ratio Lower Upper

276 100

138 27.7 26.4 39.6

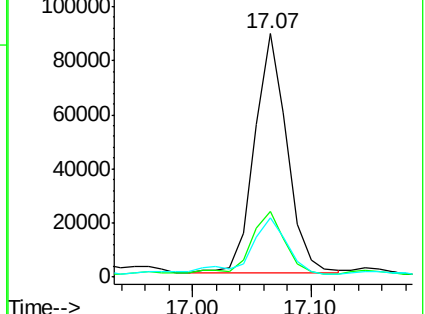
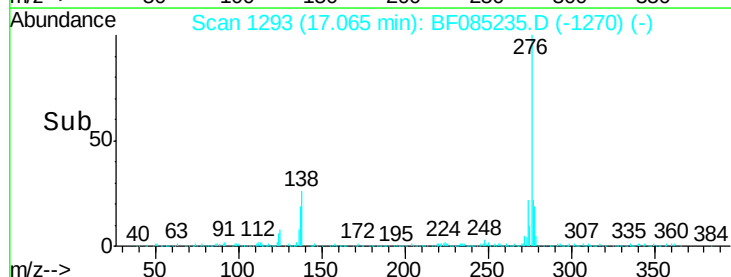
277 29.2 20.2 30.2

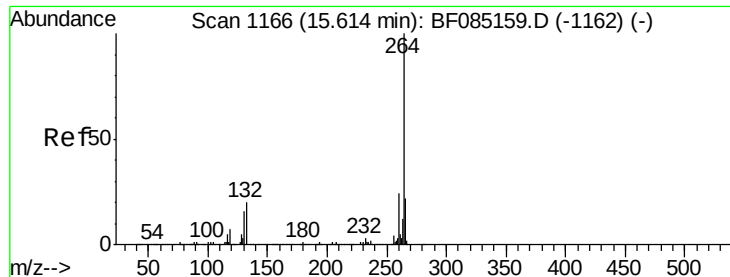


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

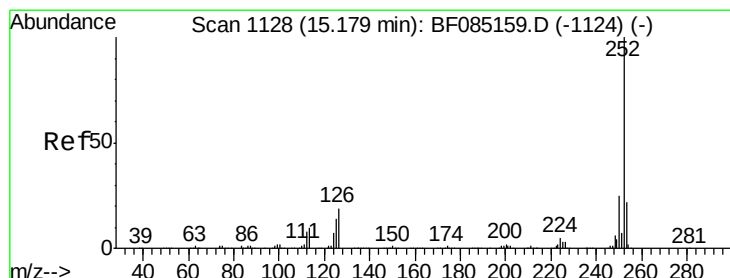
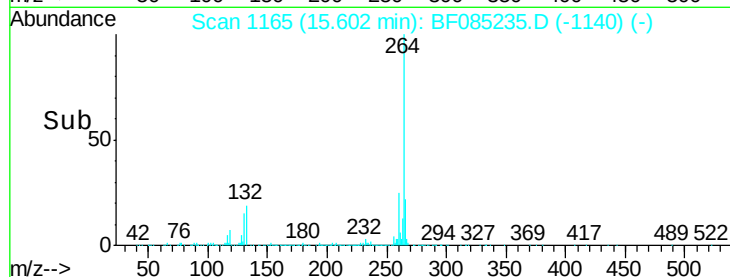
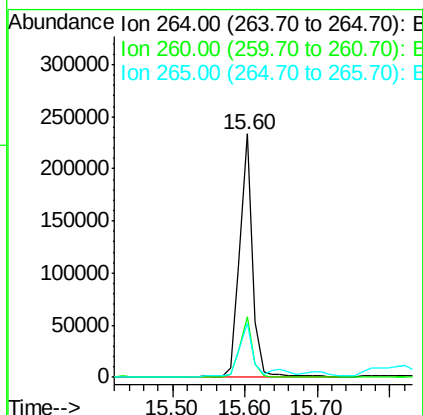
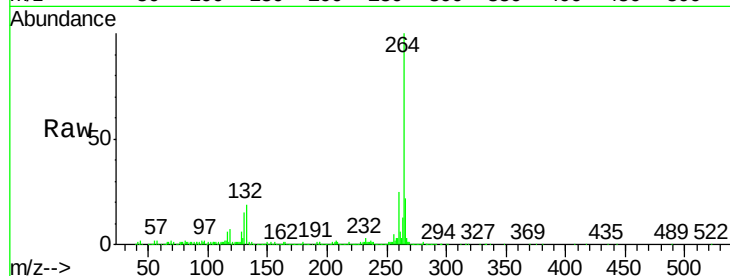




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.60 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF085235.D
Acq: 5 Mar 2016 6:21

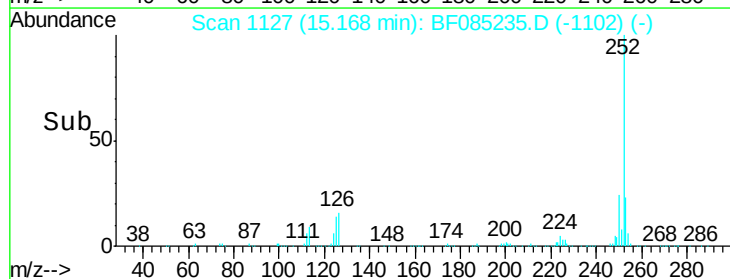
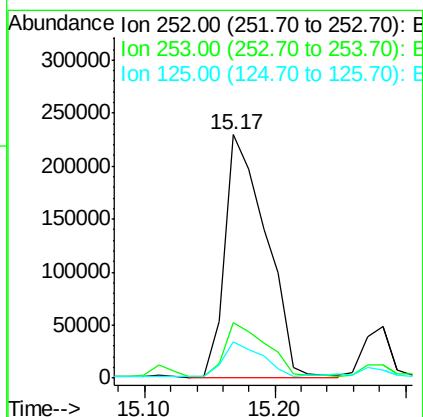
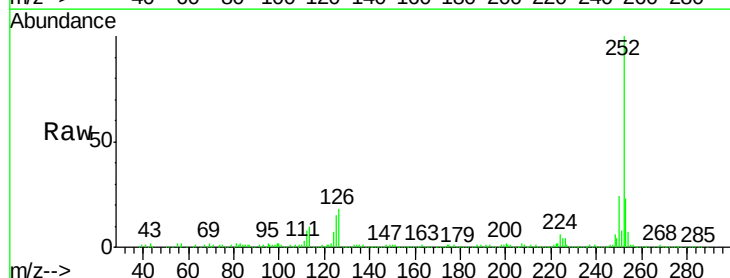
Instrument :
BNA_F
ClientSampleId :

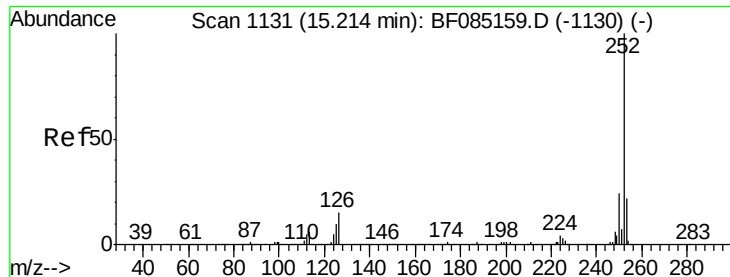
Tgt Ion:264 Resp: 290324
Ion Ratio Lower Upper
264 100
260 24.7 19.2 28.8
265 22.1 17.3 25.9



#87
Benzo(b)fluoranthene
Concen: 25.97 ng
RT: 15.17 min Scan# 1127
Delta R.T. -0.01 min
Lab File: BF085235.D
Acq: 5 Mar 2016 6:21

Tgt Ion:252 Resp: 502524
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.6
125 14.7 11.3 16.9





#88

Benzo(k)fluoranthene

Concen: 32.20 ng

RT: 15.17 min Scan# 1127

Delta R.T. -0.05 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

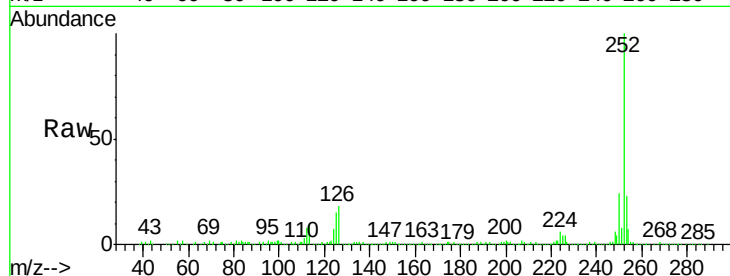
Tgt Ion:252 Resp: 502524

Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

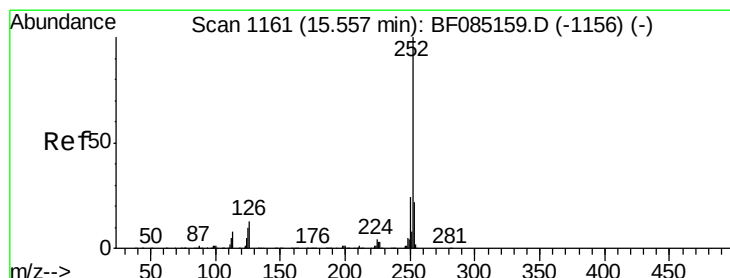
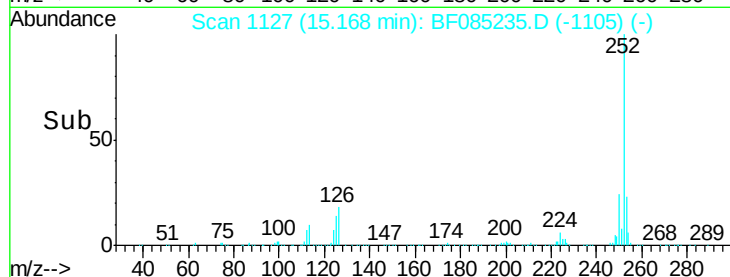
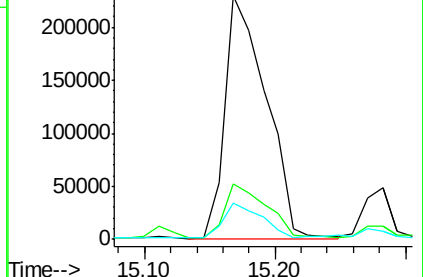
125 14.7 10.4 15.6



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: 17.28 ng

RT: 15.53 min Scan# 1159

Delta R.T. -0.02 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

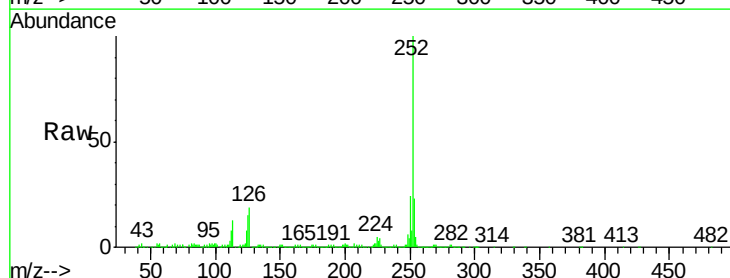
Tgt Ion:252 Resp: 277152

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

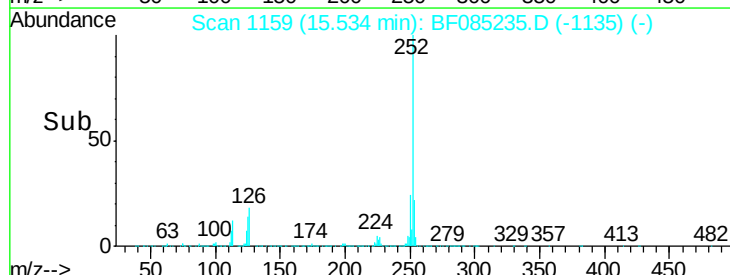
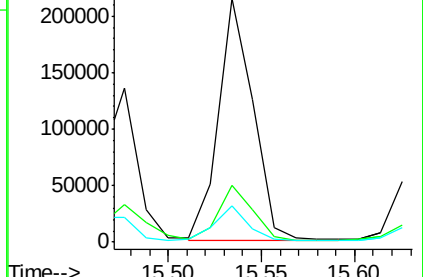
125 14.7 8.2 12.4#

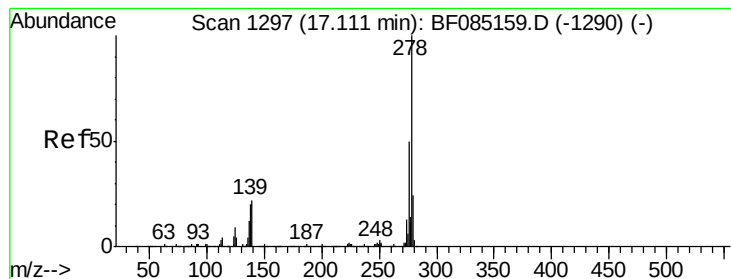


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.04 ng

RT: 17.08 min Scan# 1294

Delta R.T. -0.03 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

Instrument :

BNA_F

ClientSampleId :

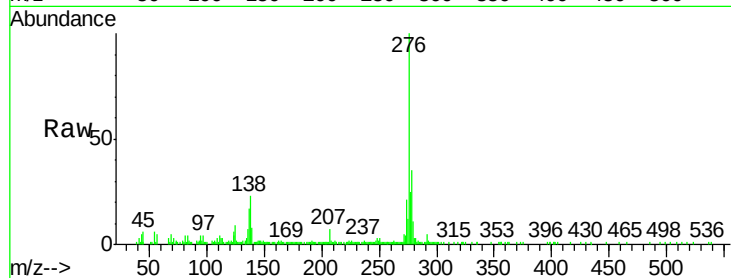
Tgt Ion:278 Resp: 41599

Ion Ratio Lower Upper

278 100

139 23.9 17.3 25.9

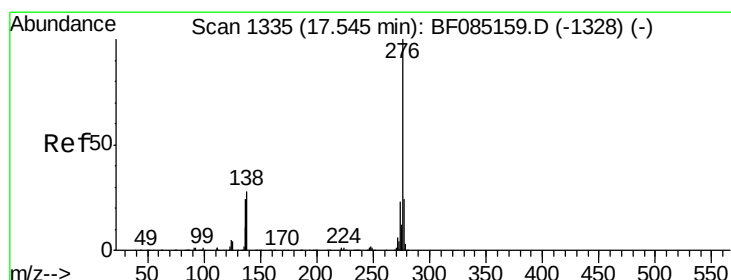
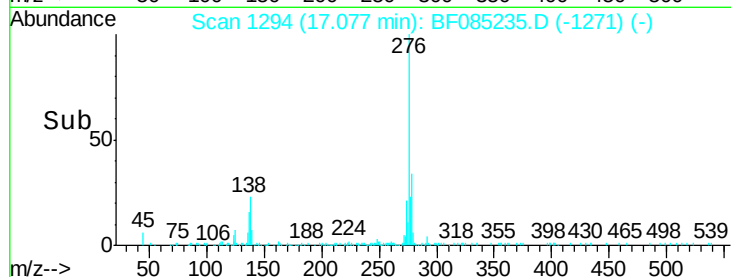
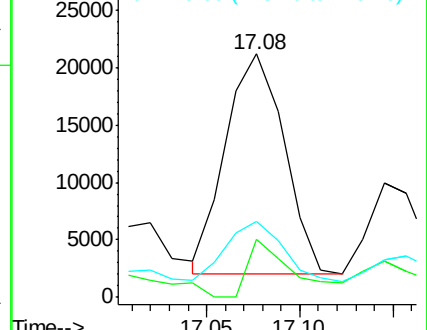
279 31.1 19.2 28.8#



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: 11.54 ng

RT: 17.51 min Scan# 1332

Delta R.T. -0.03 min

Lab File: BF085235.D

Acq: 5 Mar 2016 6:21

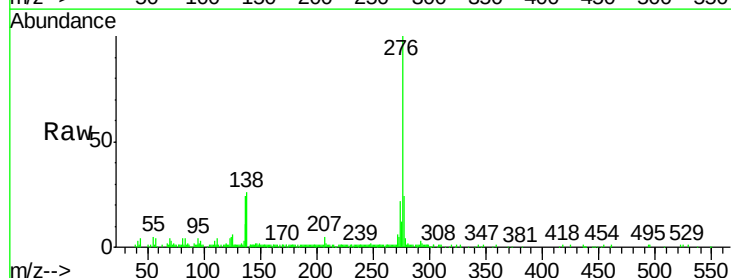
Tgt Ion:276 Resp: 158837

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.4

138 26.4 22.5 33.7



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

