

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083810.D
 Acq On : 15 Dec 2015 11:02
 Operator : UM/IZ
 Sample : G4761-07DL 100X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 15 11:34:01 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

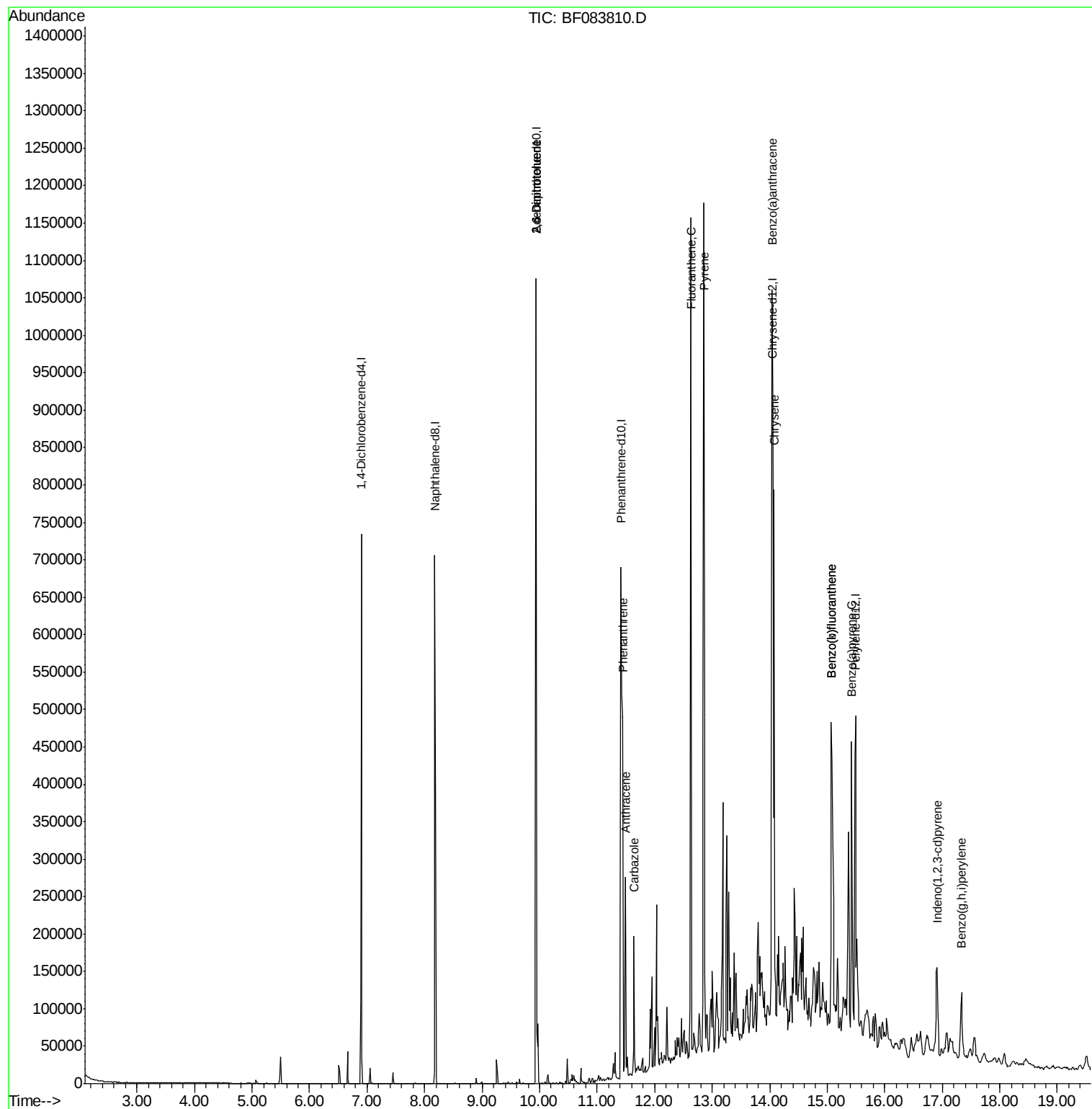
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	103939	20.00	ng	-0.02
21) Naphthalene-d8	8.18	136	394722	20.00	ng	-0.03
38) Acenaphthene-d10	9.94	164	200515	20.00	ng	-0.02
63) Phenanthrene-d10	11.41	188	329526	20.00	ng	-0.03
75) Chrysene-d12	14.05	240	236475	20.00	ng	-0.02
86) Perylene-d12	15.49	264	226004	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	10400	1.61	ng	-0.03
7) Phenol-d6	6.51	99	12738	1.56	ng	-0.03
23) Nitrobenzene-d5	7.45	82	6778	0.96	ng	-0.03
41) 2,4,6-Tribromophenol	10.72	330	2167	1.06	ng	-0.03
44) 2-Fluorobiphenyl	9.25	172	15018	1.76	ng	-0.03
78) Terphenyl-d14	13.00	244	12169	1.11	ng	-0.02
Target Compounds						
50) 2,6-Dinitrotoluene	9.94	165	26057	7.85	ng	# 17
56) 2,4-Dinitrotoluene	9.94	165	26058	6.01	ng	# 12
70) Phenanthrene	11.45	178	279555	15.97	ng	99
71) Anthracene	11.49	178	99185	5.46	ng	98
72) Carbazole	11.64	167	67472	3.98	ng	97
74) Fluoranthene	12.64	202	634220	35.06	ng	95
77) Pyrene	12.85	202	511186	27.35	ng	98
80) Benzo(a)anthracene	14.04	228	318321	23.67	ng	98
82) Chrysene	14.08	228	203471	15.51	ng	96
85) Indeno(1,2,3-cd)pyrene	16.91	276	78649	6.11	ng	# 100
87) Benzo(b)fluoranthene	15.07	252	336289	23.32	ng	# 96
88) Benzo(k)fluoranthene	15.07	252	336289	25.74	ng	100
89) Benzo(a)pyrene	15.43	252	181970	14.14	ng	97
91) Benzo(a,h,i)perylene	17.33	276	71361	5.43	ng	100

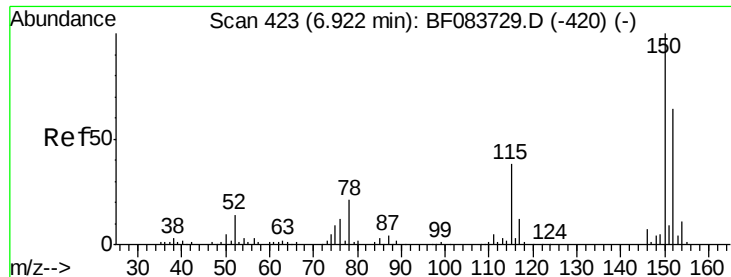
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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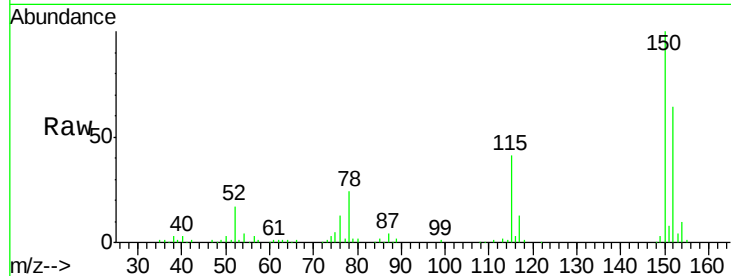


#1

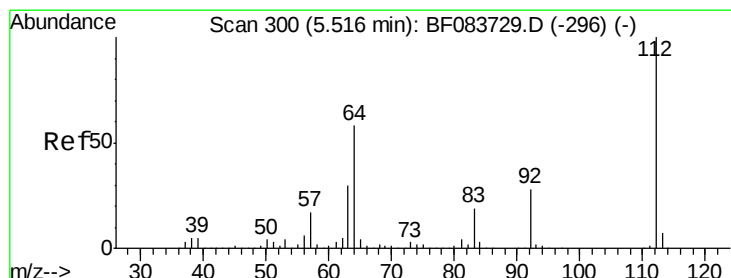
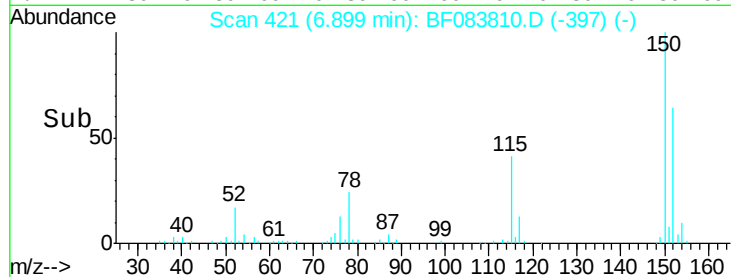
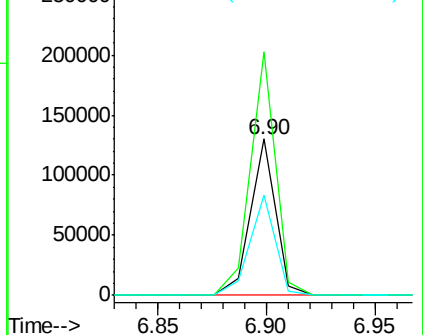
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 103939
Ion Ratio Lower Upper
152 100
150 155.8 126.5 189.7
115 63.9 52.3 78.5



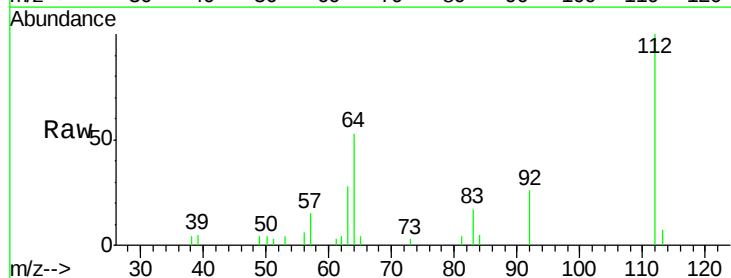
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



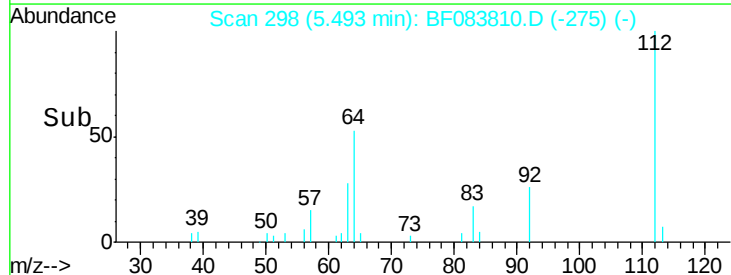
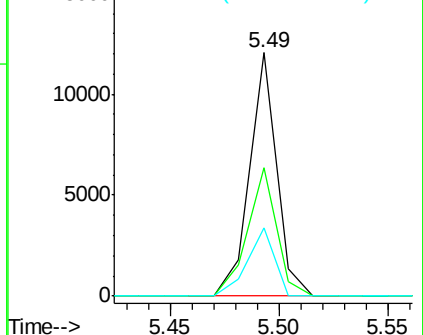
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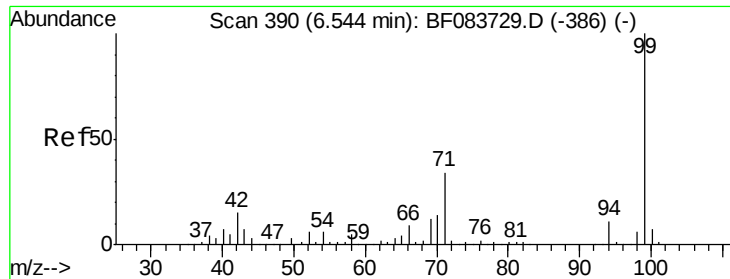
2-Fluorophenol
Concen: 1.61 ng
RT: 5.49 min Scan# 298
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:112 Resp: 10400
Ion Ratio Lower Upper
112 100
64 52.9 50.5 75.7
63 28.1 25.8 38.6



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: 1.56 ng

RT: 6.51 min Scan# 387

Delta R.T. -0.03 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

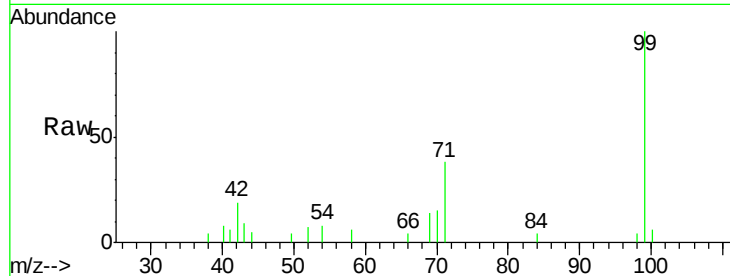
Tot Ion: 99 Resp: 12738

Ion Ratio Lower Upper

99 100

42 18.5 17.3 25.9

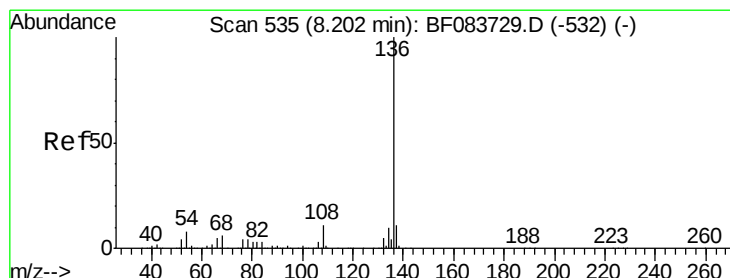
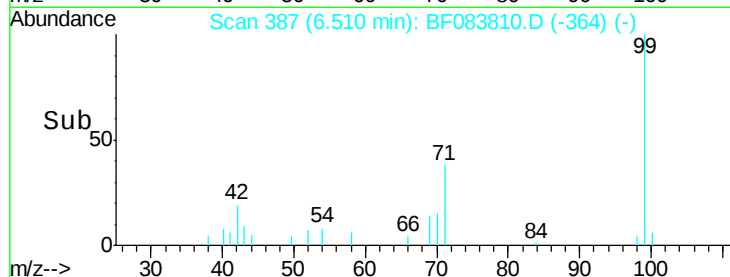
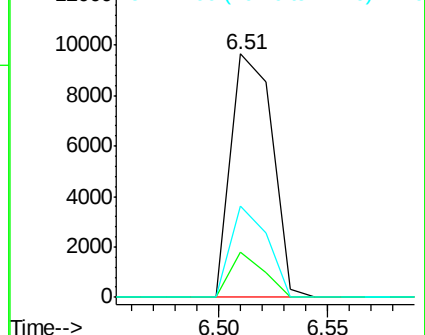
71 37.7 26.6 40.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.03 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Tgt Ion: 136 Resp: 394722

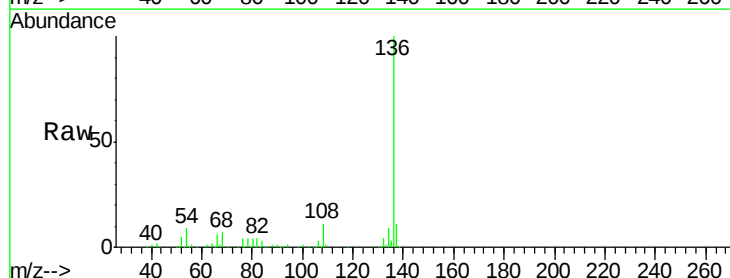
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 8.5 7.8 11.6

68 6.8 5.7 8.5

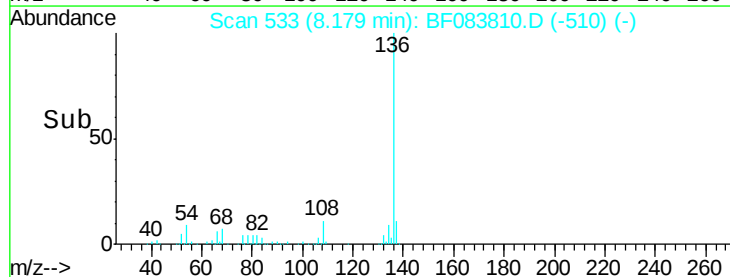
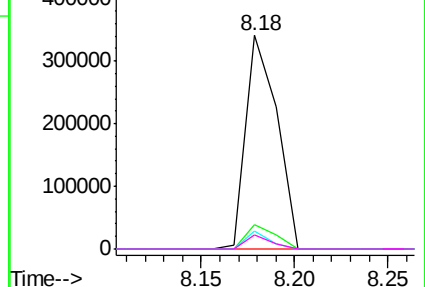


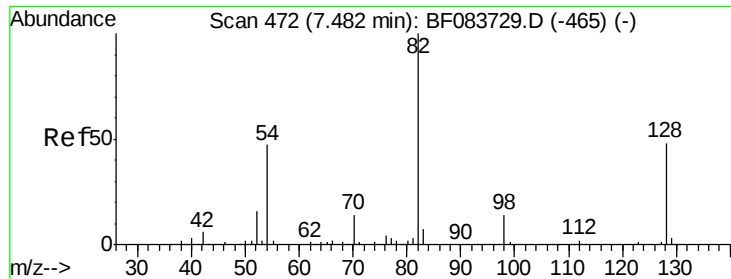
Abundance Ion 136.00 (135.70 to 136.70): E

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

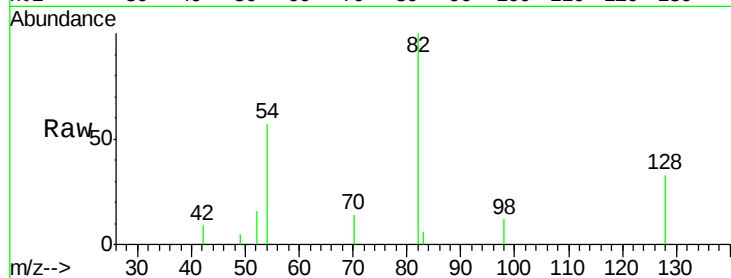




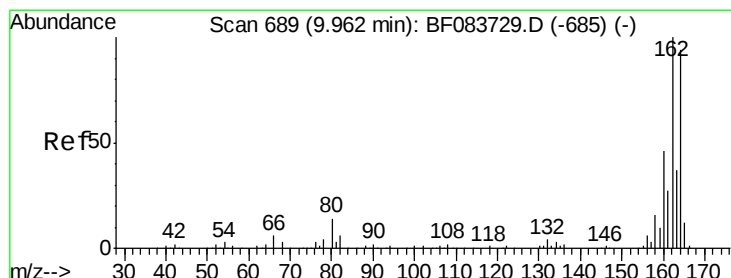
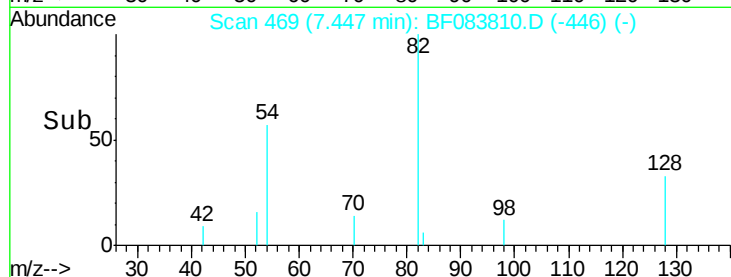
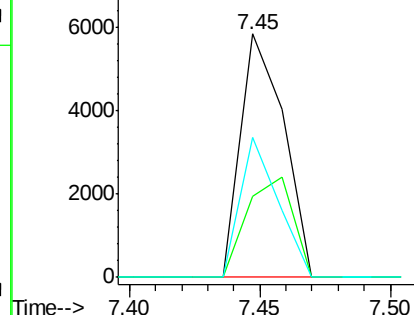
#23
 Nitrobenzene-d5
 Concen: 0.96 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.03 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	82	Resp	6778
Ion Ratio	Lower	Upper	
82	100		
128	33.4	30.7	46.1
54	57.4	42.5	63.7

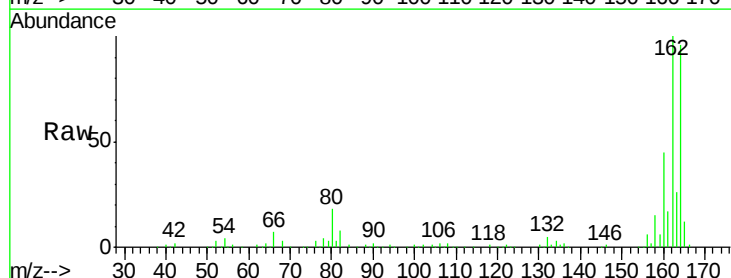


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

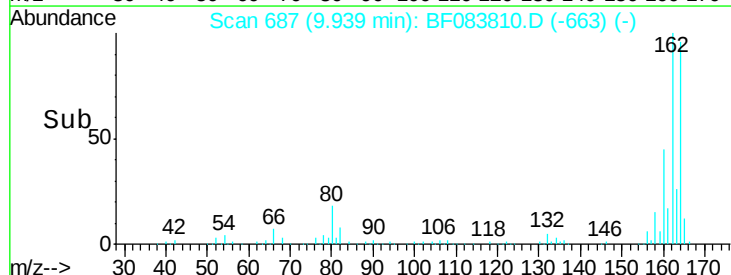
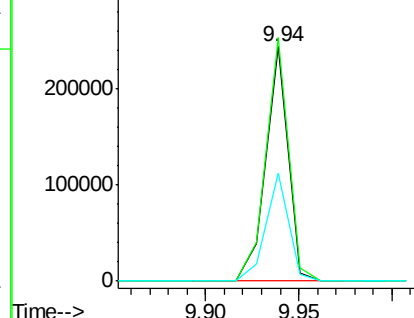


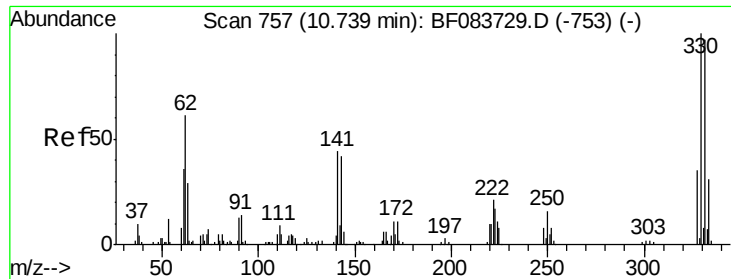
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.94 min Scan# 687
 Delta R.T. -0.02 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Tgt Ion	164	Resp	200515
Ion Ratio	Lower	Upper	
164	100		
162	103.8	78.8	118.2
160	46.3	33.4	50.2



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

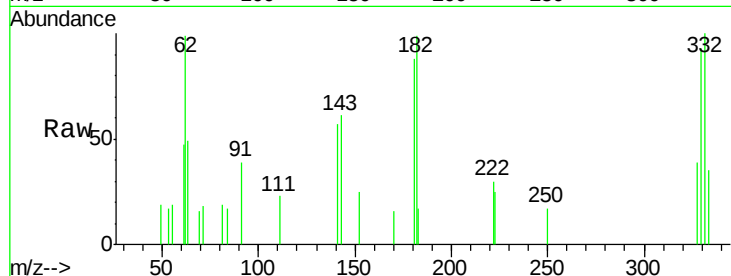




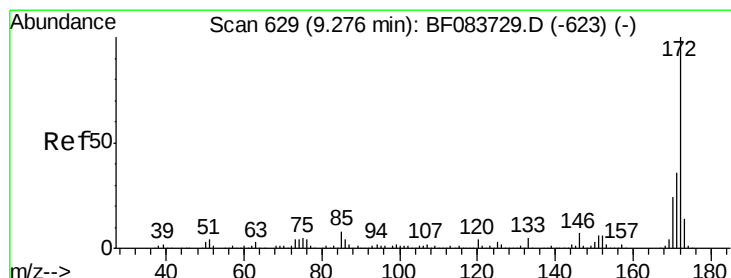
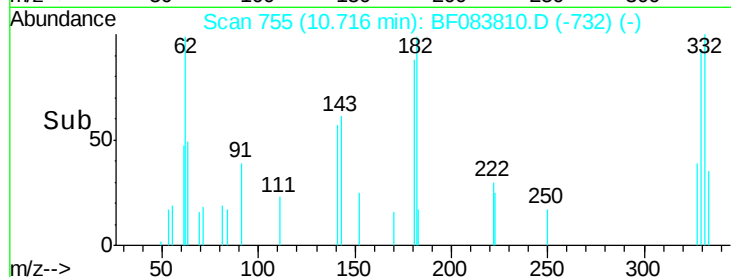
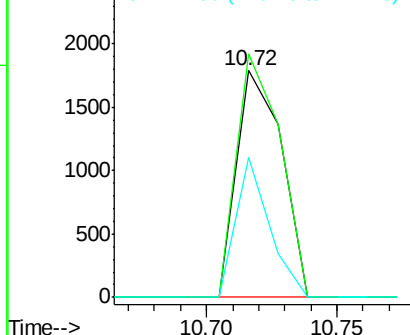
#41
 2,4,6-Tribromophenol
 Concen: 1.06 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.03 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	104.2	0.0	0.0#
141	45.8	0.0	0.0#

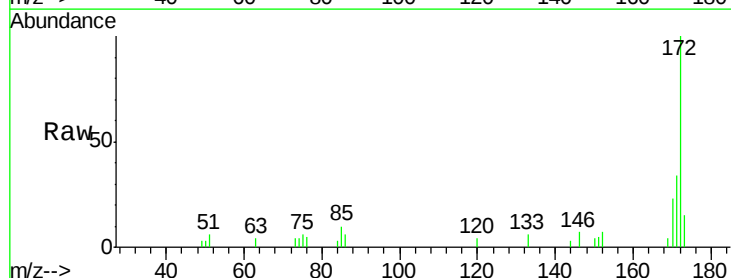


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

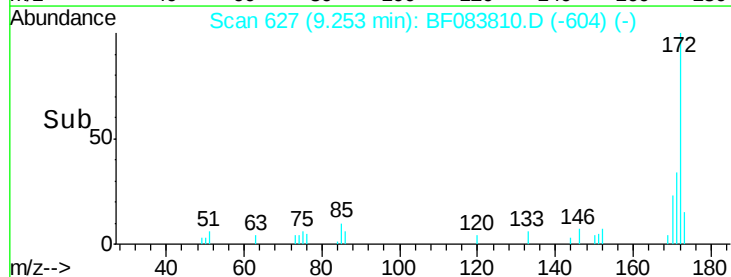
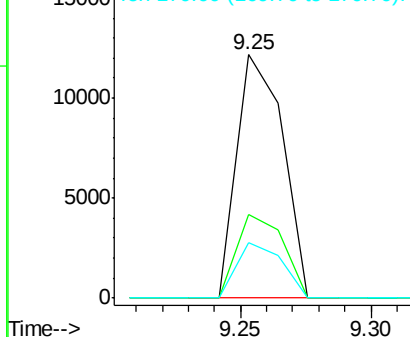


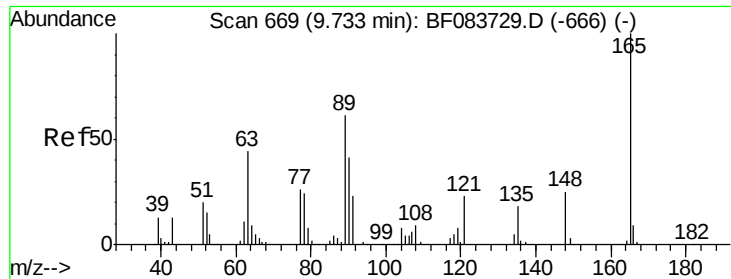
#44
 2-Fluorobiphenyl
 Concen: 1.76 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.03 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	42.8
170	22.9	19.4	29.0



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

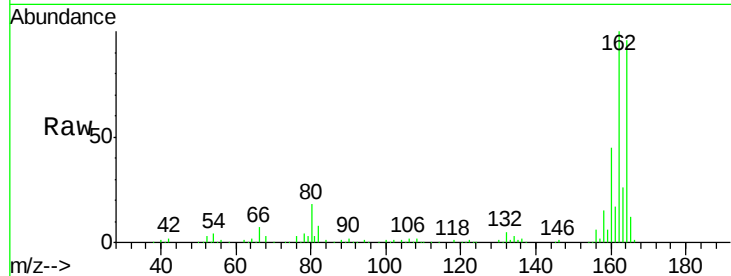




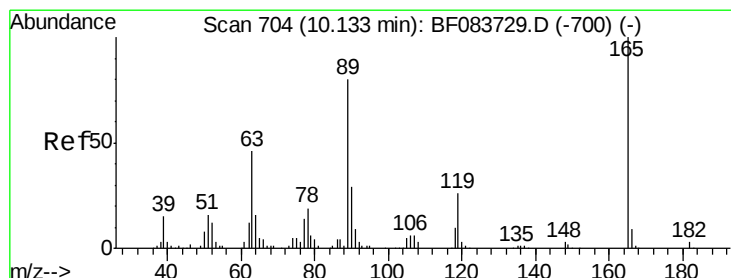
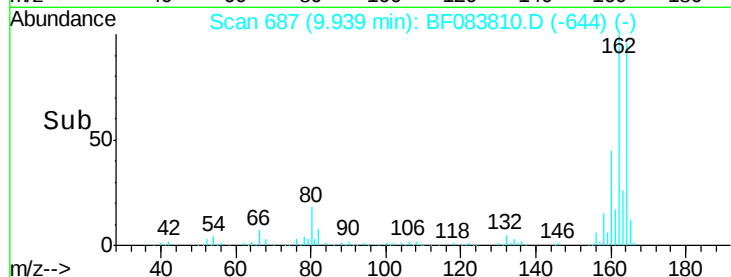
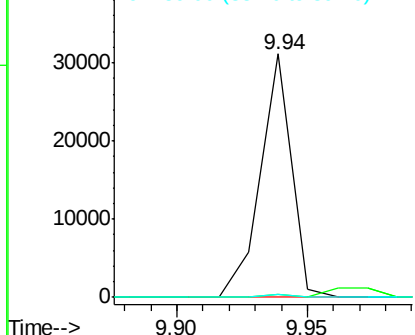
#50
 2,6-Dinitrotoluene
 Concen: 7.85 ng
 RT: 9.94 min Scan# 687
 Delta R.T. 0.19 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.3	56.9	85.3#
89	1.3	52.1	78.1#



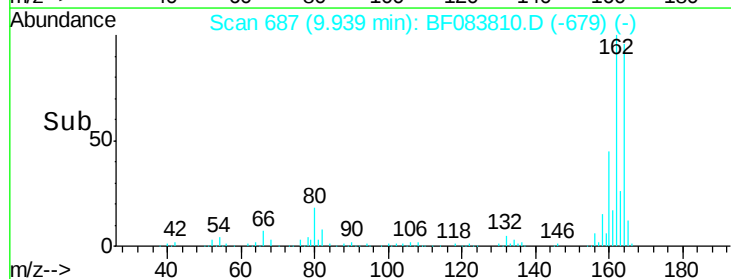
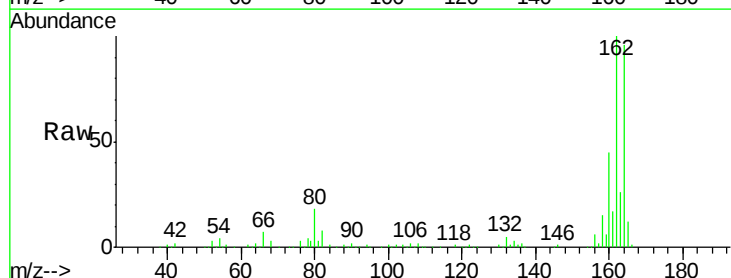
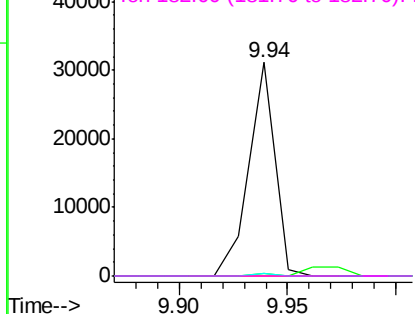
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

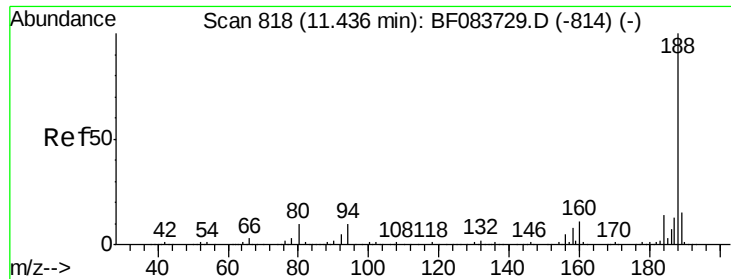


#56
 2,4-Dinitrotoluene
 Concen: 6.01 ng
 RT: 9.94 min Scan# 687
 Delta R.T. -0.21 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	51.4	77.2#
89	1.3	72.6	108.8#
182	0.0	1.4	2.0#

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

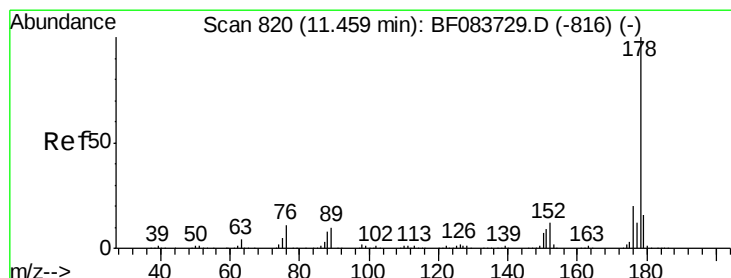
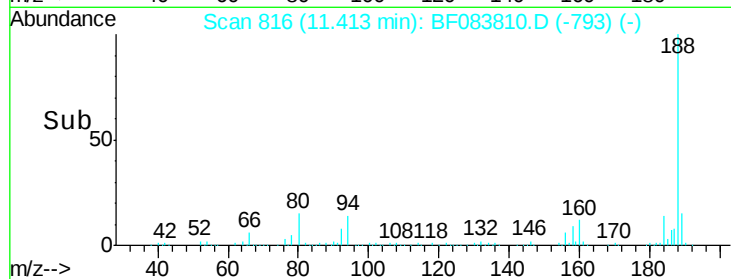
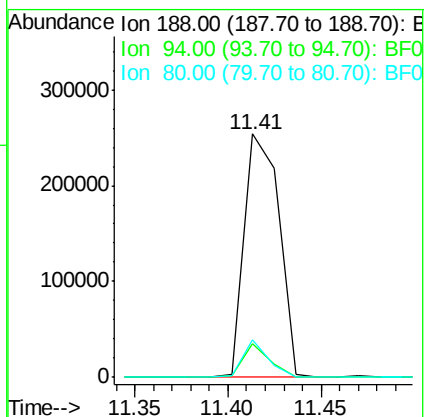
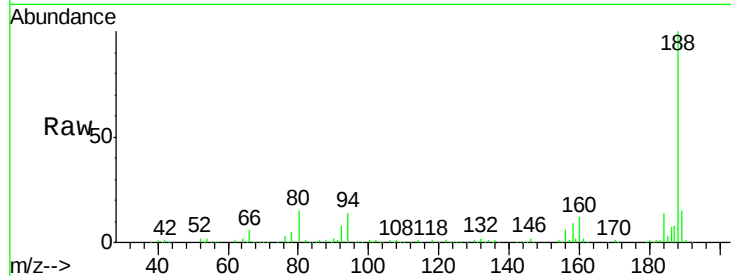




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

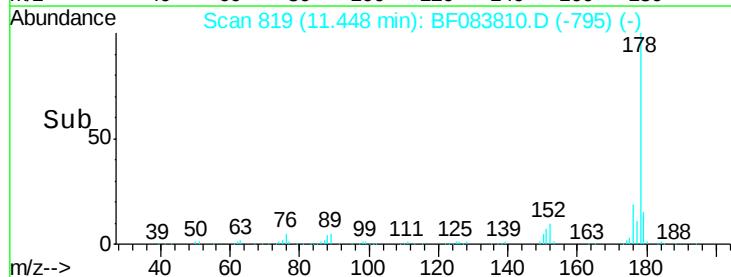
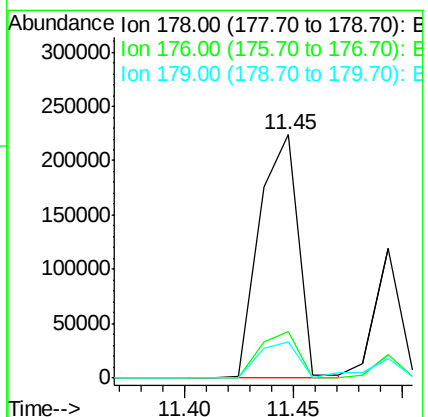
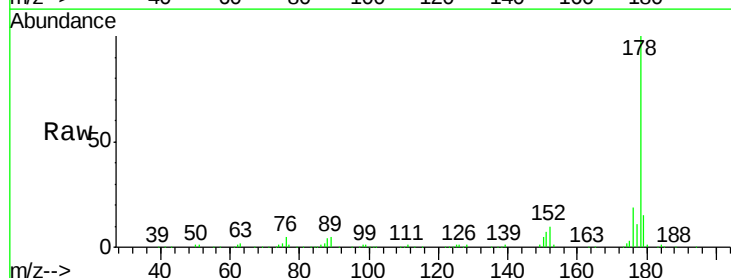
Instrument :
BNA_F
ClientSampleId :

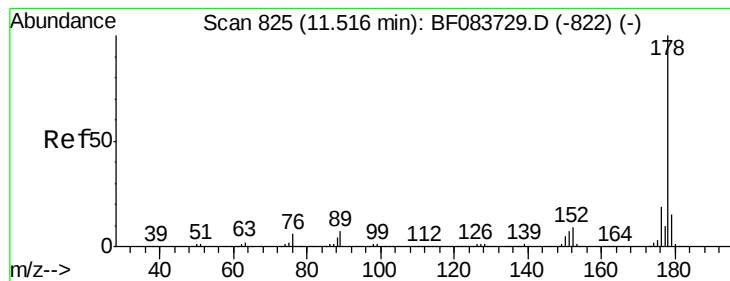
Tot Ion:188 Resp: 329526
Ion Ratio Lower Upper
188 100
94 14.1 9.4 14.2
80 15.4 10.6 16.0



#70
Phenanthrene
Concen: 15.97 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:178 Resp: 279555
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 14.9 12.2 18.4





#71

Anthracene

Concen: 5.46 ng

RT: 11.49 min Scan# 823

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

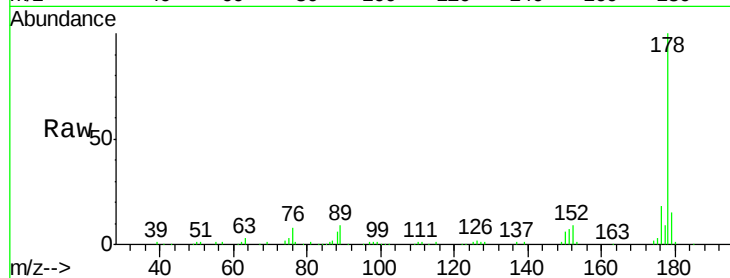
Tot Ion:178 Resp: 99185

Ion Ratio Lower Upper

178 100

176 17.9 15.2 22.8

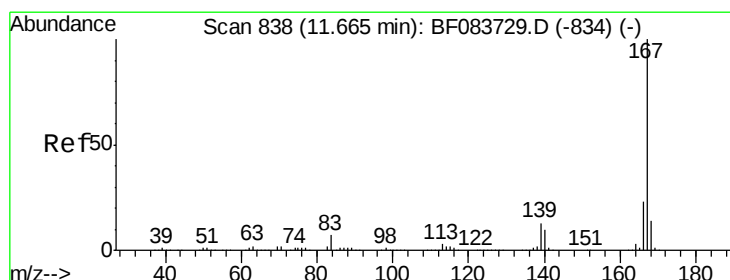
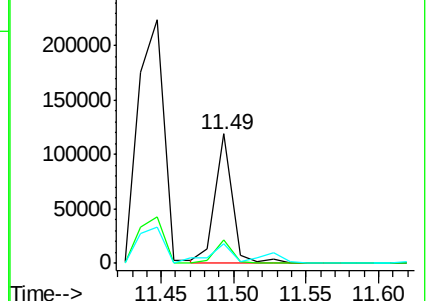
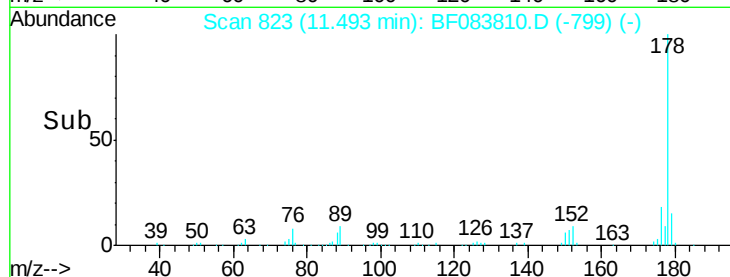
179 15.3 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 3.98 ng

RT: 11.64 min Scan# 836

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

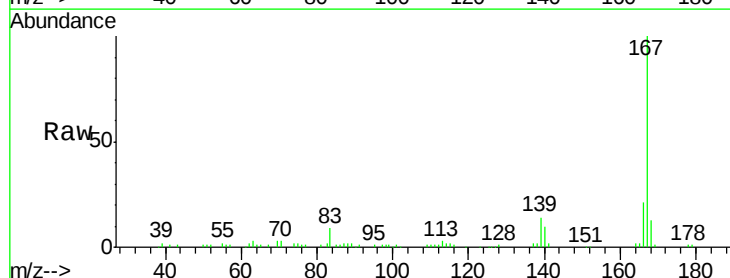
Tgt Ion:167 Resp: 67472

Ion Ratio Lower Upper

167 100

166 20.8 17.2 25.8

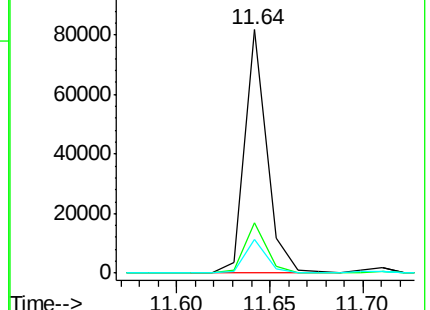
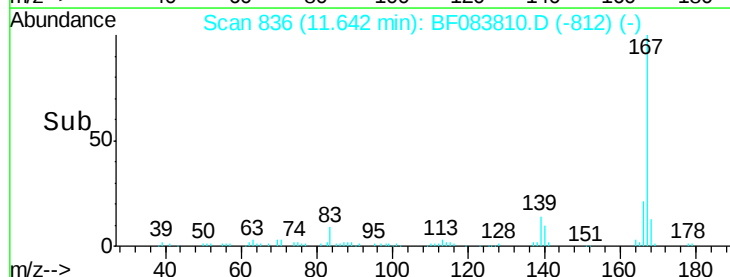
139 13.7 9.3 13.9

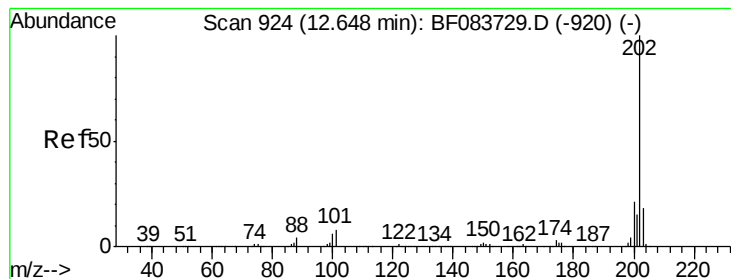


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 35.06 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

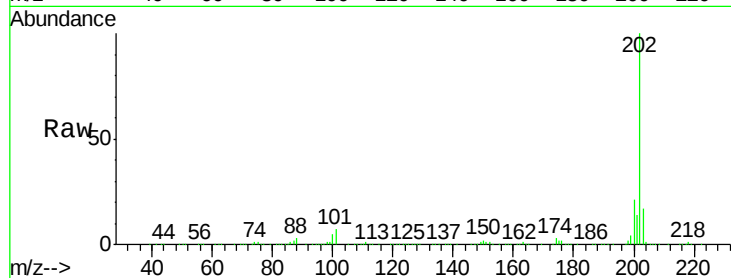
Tot Ion:202 Resp: 634220

Ion Ratio Lower Upper

202 100

101 6.7 0.0 31.5

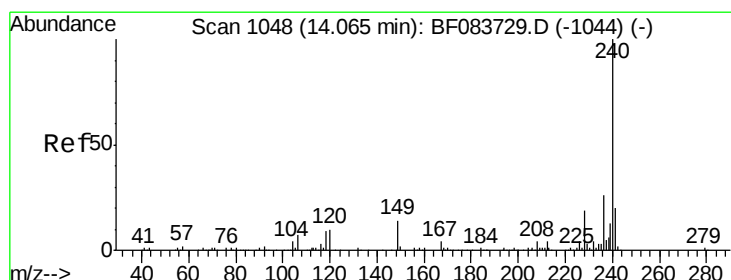
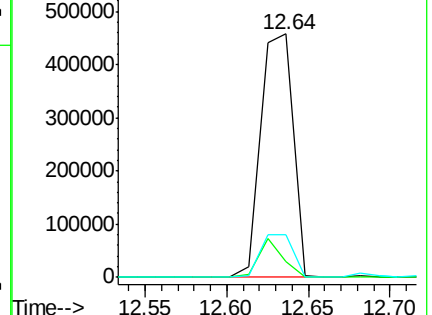
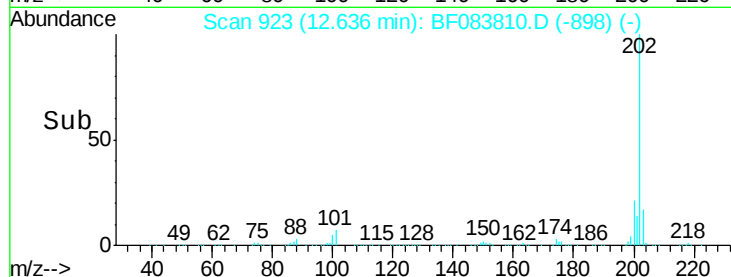
203 17.4 0.0 37.6



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: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

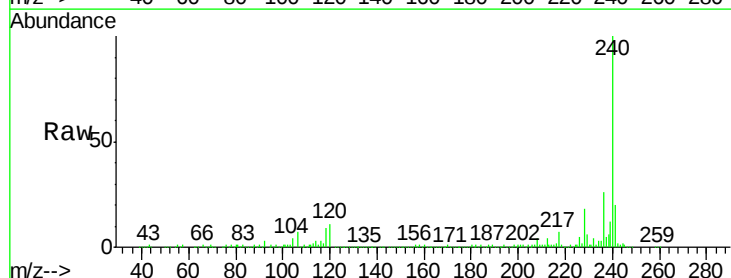
Tgt Ion:240 Resp: 236475

Ion Ratio Lower Upper

240 100

120 10.5 8.1 12.1

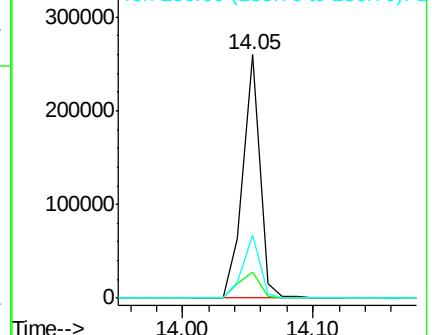
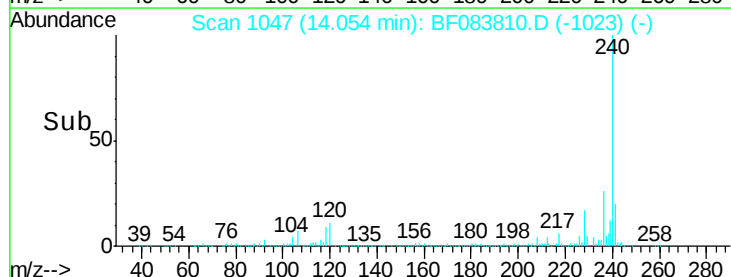
236 25.7 20.8 31.2

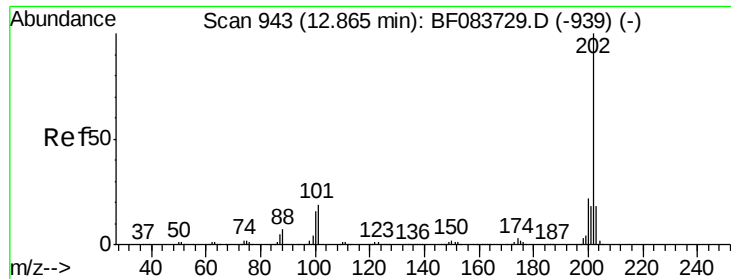


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.35 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

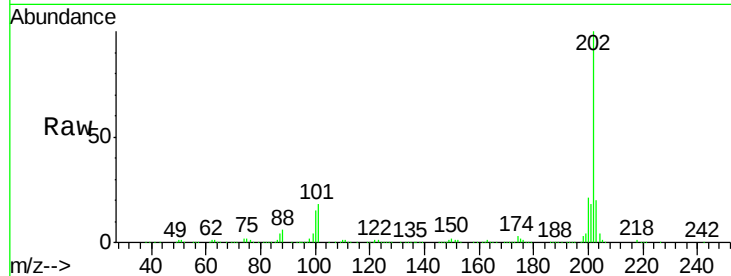
Tot Ion:202 Resp: 511186

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

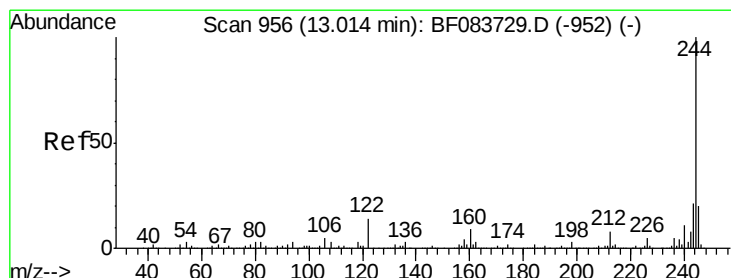
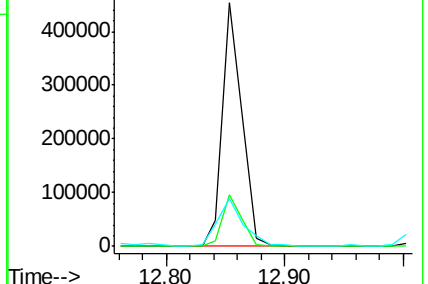
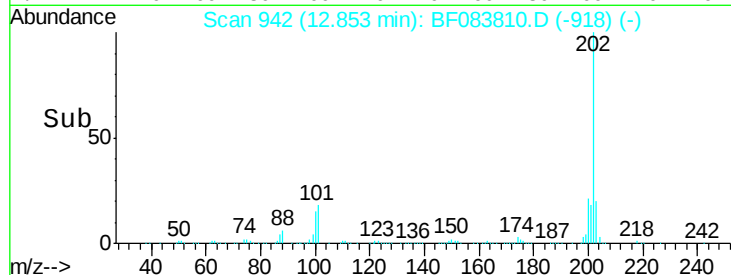
203 19.8 14.3 21.5



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: 1.11 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

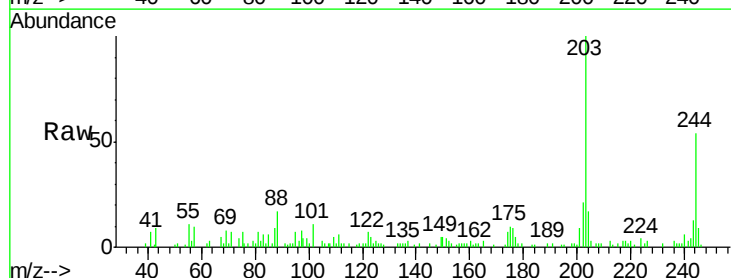
Tgt Ion:244 Resp: 12169

Ion Ratio Lower Upper

244 100

212 6.4 6.1 9.1

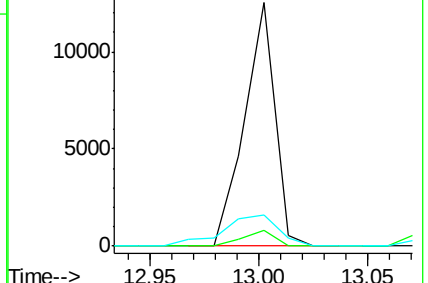
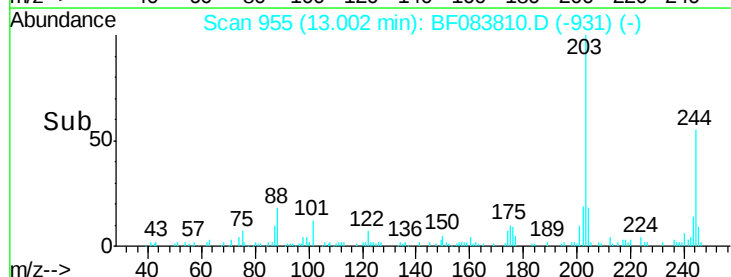
122 12.5 11.0 16.6

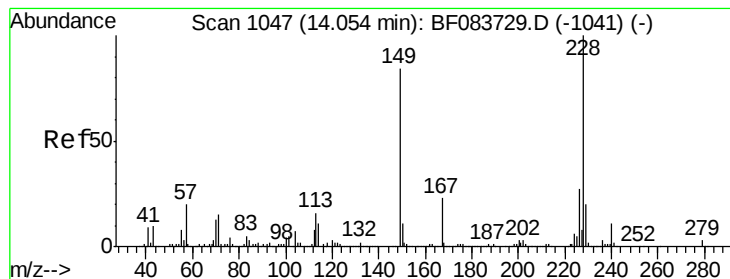


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 23.67 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BF083810.D

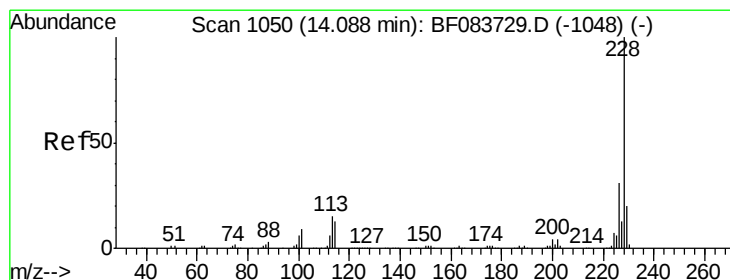
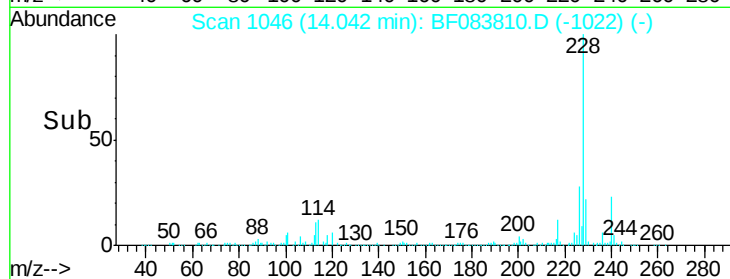
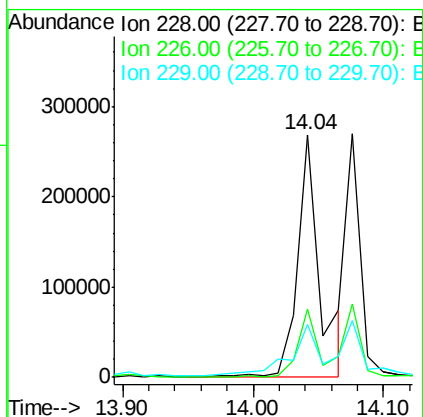
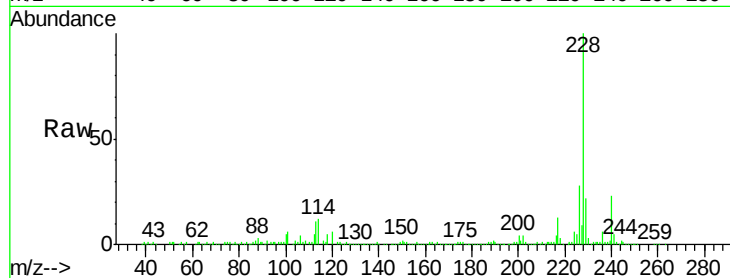
Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

Tot Ion:228	Resp:	318321
Ion Ratio	Lower	Upper
228	100	
226	28.0	22.3 33.5
229	22.1	15.7 23.5



#82

Chrysene

Concen: 15.51 ng

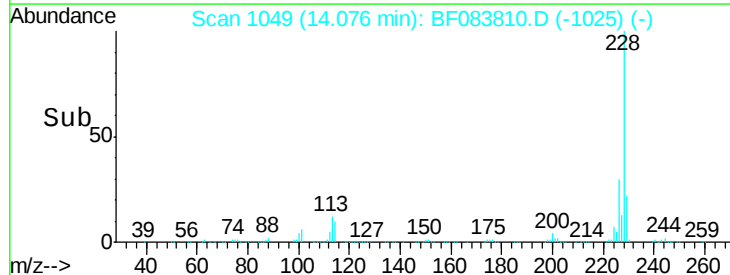
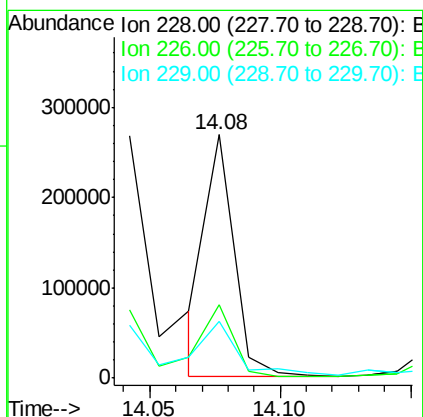
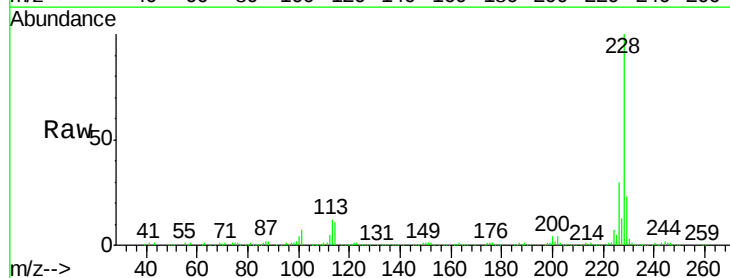
RT: 14.08 min Scan# 1049

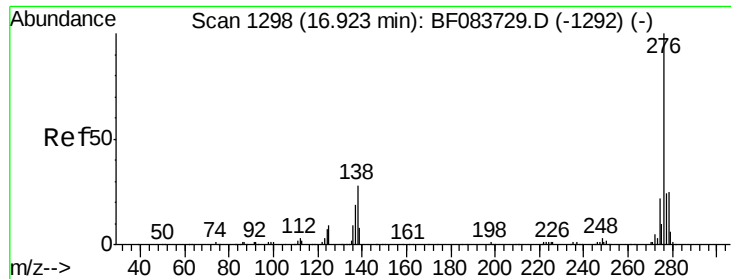
Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Tgt Ion:228	Resp:	203471
Ion Ratio	Lower	Upper
228	100	
226	30.0	24.7 37.1
229	23.4	16.3 24.5

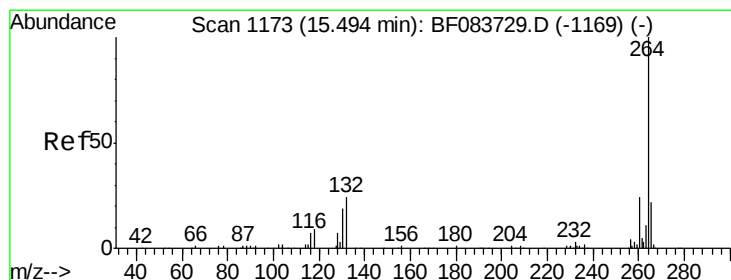
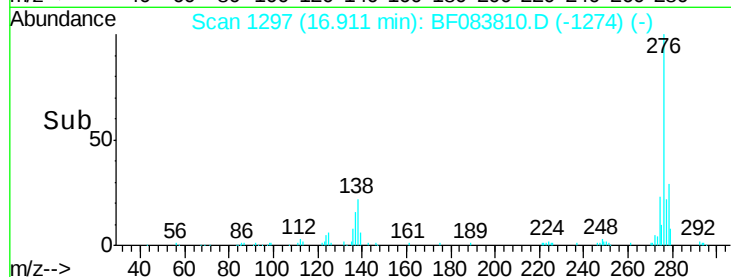
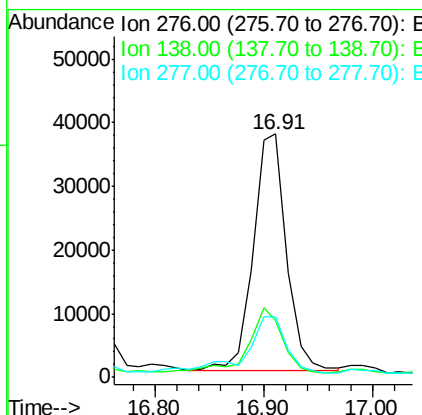
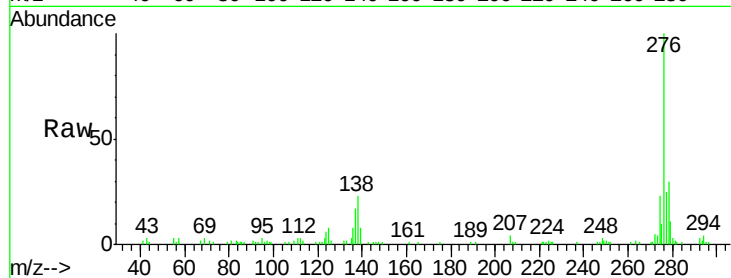




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.11 ng
 RT: 16.91 min Scan# 1297
 Delta R.T. -0.03 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

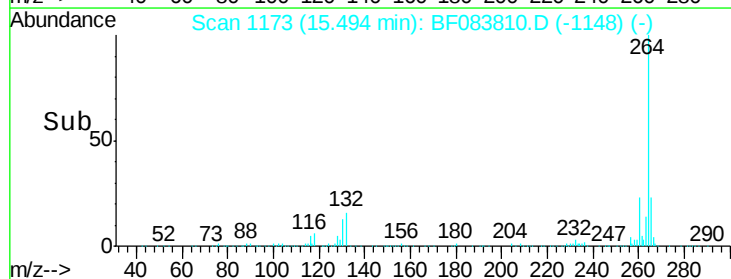
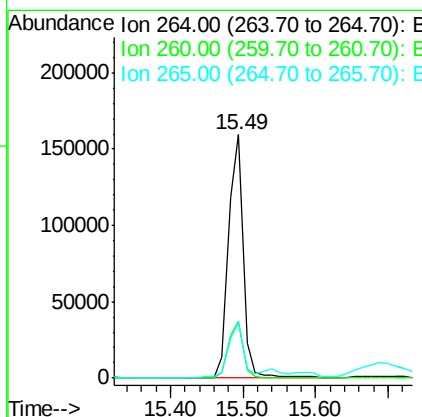
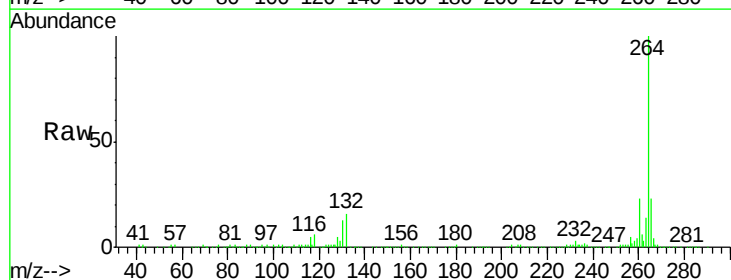
Instrument :
 BNA_F
 ClientSampled :

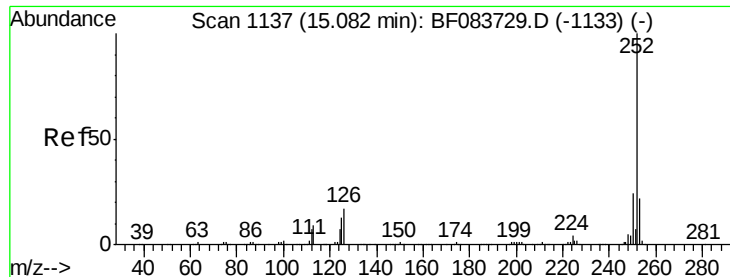
Tot Ion	Ratio	Lower	Upper
276	100		
138	28.6	0.0	0.0#
277	29.8	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: BF083810.D
 Acq: 15 Dec 2015 11:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.4	29.0
265	22.9	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 23.32 ng

RT: 15.07 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF083810.D

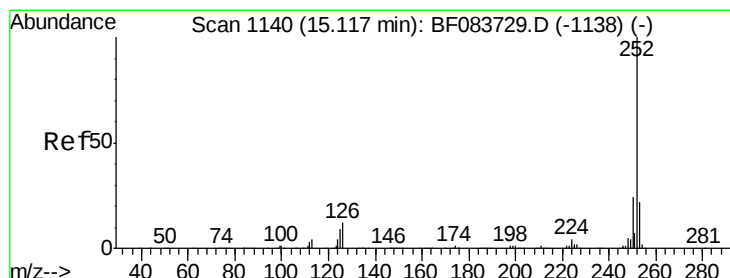
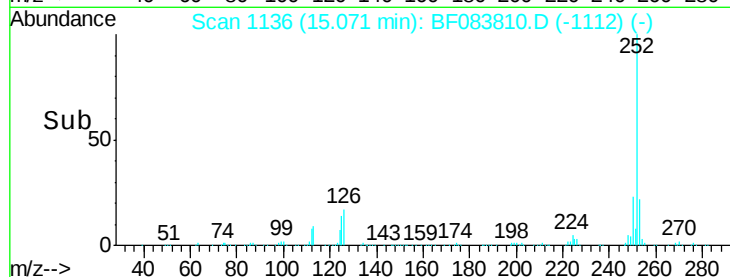
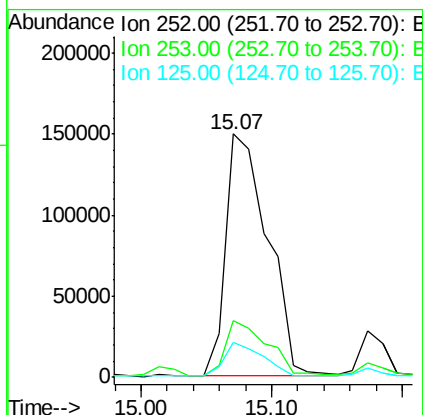
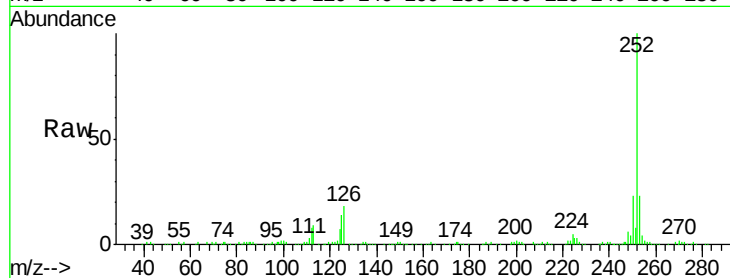
Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	336289
Ion Ratio	Lower	Upper
252	100	
253	23.0	18.2 27.4
125	14.4	8.2 12.4#



#88

Benzo(k)fluoranthene

Concen: 25.74 ng

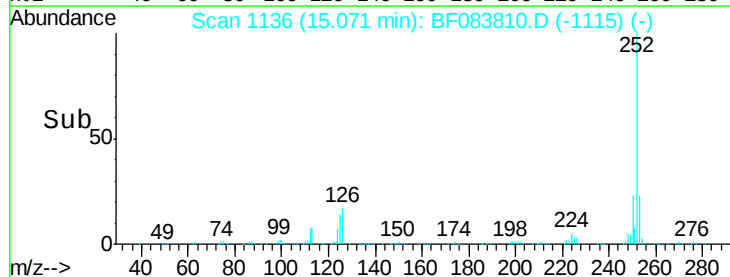
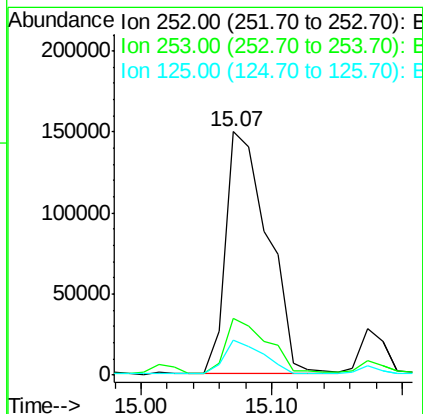
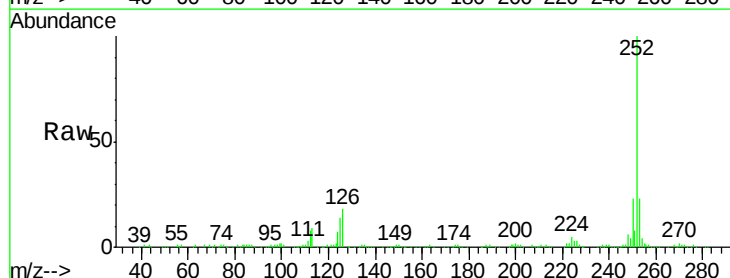
RT: 15.07 min Scan# 1136

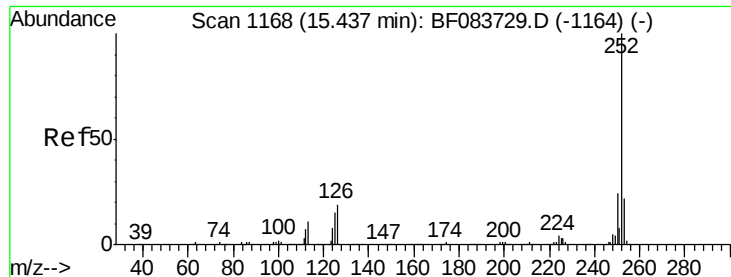
Delta R.T. -0.06 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Tgt Ion:252	Resp:	336289
Ion Ratio	Lower	Upper
252	100	
253	23.0	18.6 27.8
125	14.4	11.5 17.3





#89

Benzo(a)pyrene

Concen: 14.14 ng

RT: 15.43 min Scan# 1167

Delta R.T. -0.02 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

Instrument :

BNA_F

ClientSampleId :

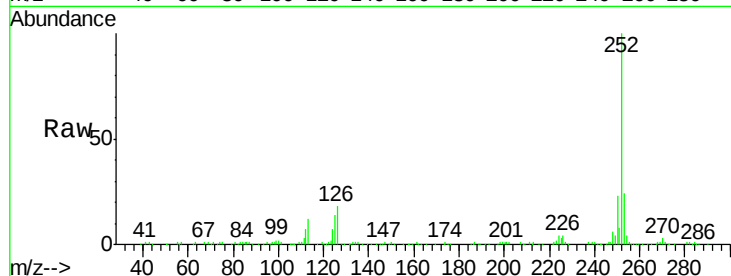
Tot Ion:252 Resp: 181970

Ion Ratio Lower Upper

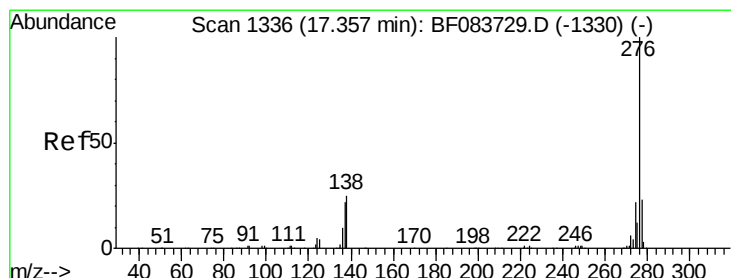
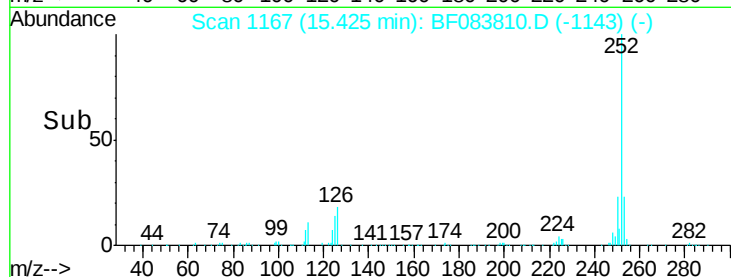
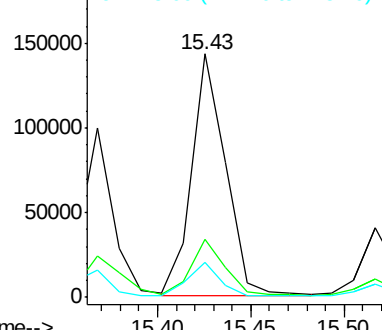
252 100

253 23.7 17.5 26.3

125 14.2 11.0 16.6



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



#91

Benzo(g,h,i)perylene

Concen: 5.43 ng

RT: 17.33 min Scan# 1334

Delta R.T. -0.05 min

Lab File: BF083810.D

Acq: 15 Dec 2015 11:02

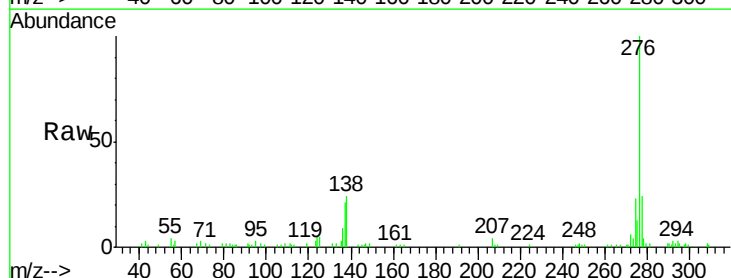
Tgt Ion:276 Resp: 71361

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 24.2 19.5 29.3



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

