

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111815\
 Data File : BF083026.D
 Acq On : 18 Nov 2015 23:53
 Operator : UM/IZ
 Sample : G4436-03 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-1356

Quant Time: Nov 19 01:53:10 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 18 13:32:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	117114	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	486957	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	227390	20.00	ng	-0.01
63) Phenanthrene-d10	11.24	188	370610	20.00	ng	-0.01
75) Chrysene-d12	13.88	240	277662	20.00	ng	-0.01
86) Perylene-d12	15.28	264	249920	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	239840	31.86	ng	-0.01
7) Phenol-d6	6.37	99	306000	30.58	ng	-0.02
23) Nitrobenzene-d5	7.29	82	196409	17.55	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	51737	19.84	ng	-0.01
44) 2-Fluorobiphenyl	9.09	172	346996	21.87	ng	-0.01
78) Terphenyl-d14	12.83	244	239144	20.43	ng	-0.01

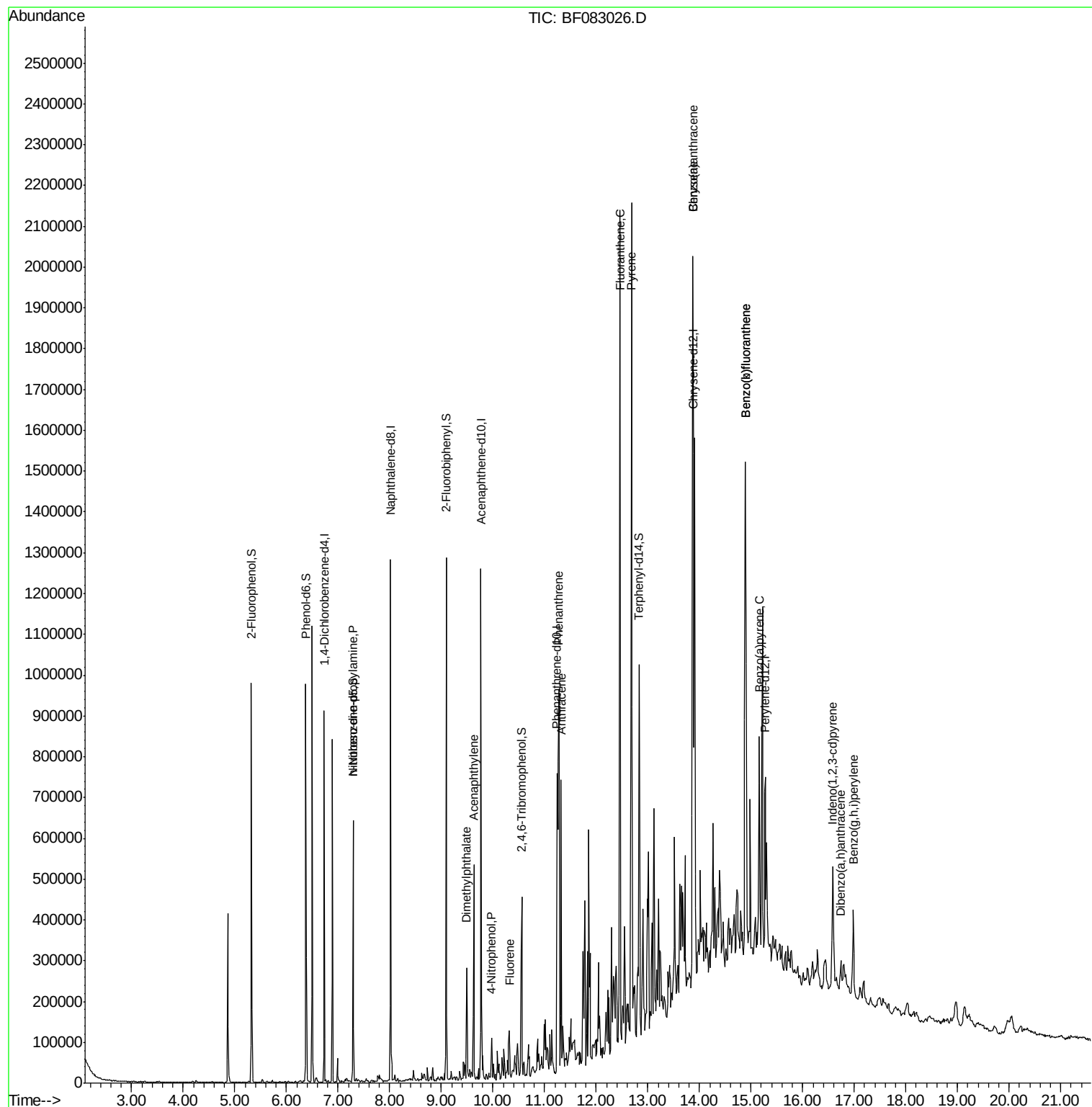
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.29	70	26243	3.57	ng	# 71
48) Acenaphthylene	9.63	152	229846	9.64	ng	96
49) Dimethylphthalate	9.49	163	82915	4.45	ng	98
55) 4-Nitrophenol	9.97	139	6936	2.07	ng	# 5
57) Fluorene	10.32	166	45764	2.77	ng	94
70) Phenanthrene	11.28	178	505052	23.47	ng	96
71) Anthracene	11.32	178	271758	11.99	ng	95
74) Fluoranthene	12.47	202	1201767	52.03	ng	94
77) Pyrene	12.68	202	976130	51.19	ng	97
80) Benzo(a)anthracene	13.87	228	758675	43.69	ng	94
82) Chrysene	13.87	228	758675	47.71	ng	96
85) Indeno(1,2,3-cd)pyrene	16.58	276	203207	14.84	ng	97
87) Benzo(b)fluoranthene	14.89	252	880574	54.89	ng	# 97
88) Benzo(k)fluoranthene	14.89	252	879779	61.82	ng	# 96
89) Benzo(a)pyrene	15.16	252	282684	20.34	ng	95
90) Dibenzo(a,h)anthracene	16.74	278	50007	4.25	ng	93
91) Benzo(a,h,i)perylene	16.98	276	161555	14.33	ng	99

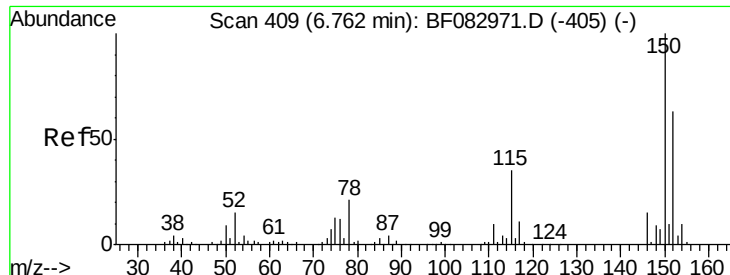
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111815\
Data File : BF083026.D
Acq On : 18 Nov 2015 23:53
Operator : UM/IZ
Sample : G4436-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PM-1356

Quant Time: Nov 19 01:53:10 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 18 13:32:32 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

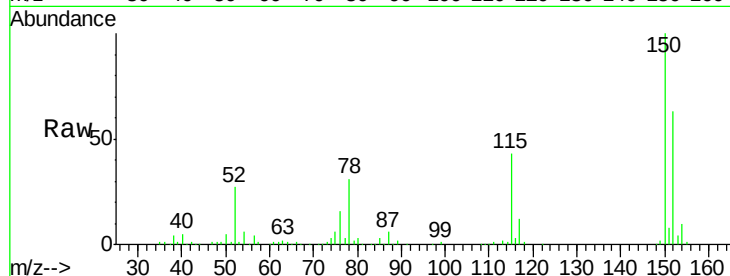
Tot Ion:152 Resp: 117114

Ion Ratio Lower Upper

152 100

150 157.7 127.0 190.4

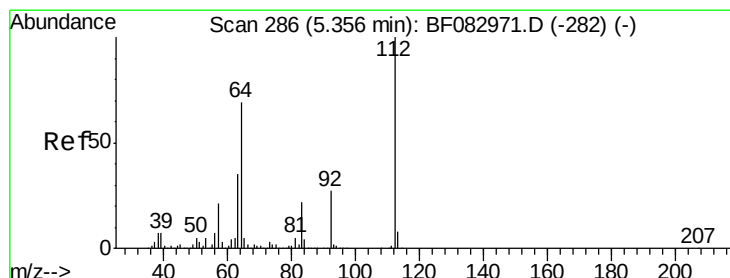
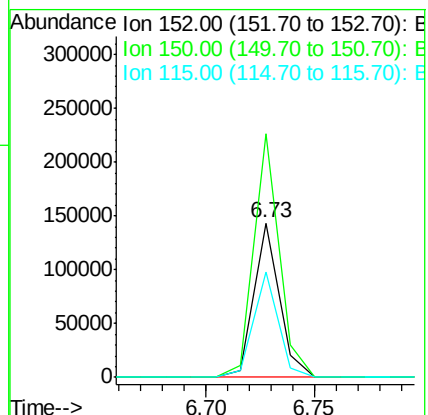
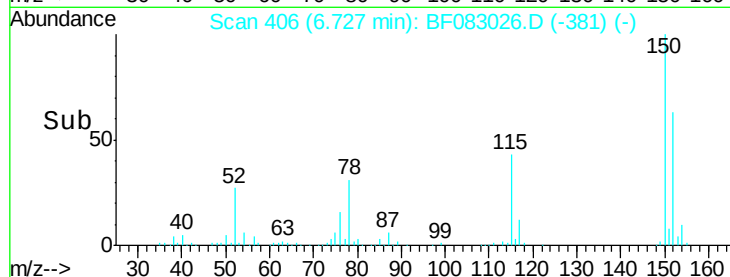
115 67.9 47.0 70.6



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: 31.86 ng

RT: 5.32 min Scan# 283

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

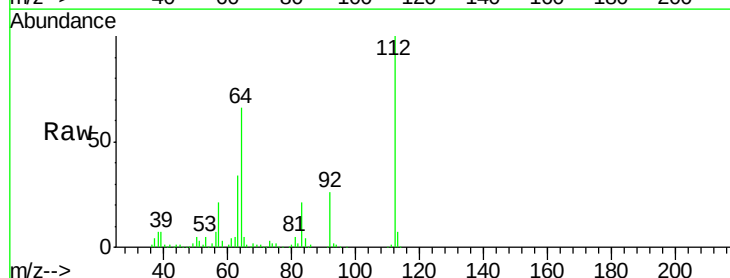
Tgt Ion:112 Resp: 239840

Ion Ratio Lower Upper

112 100

64 66.2 48.9 73.3

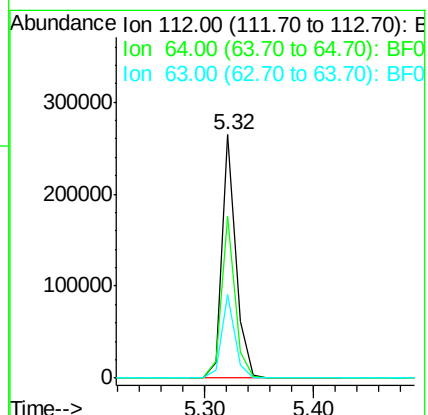
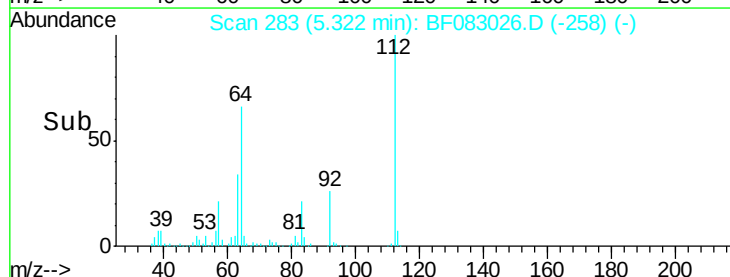
63 34.1 28.1 42.1

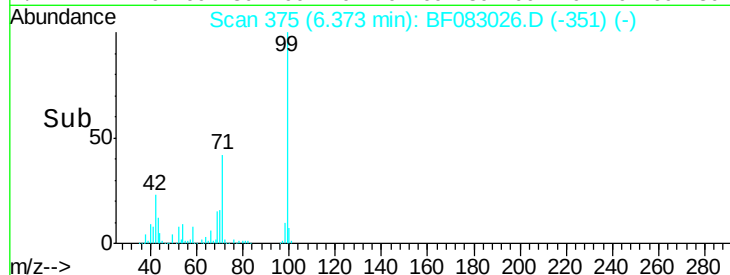
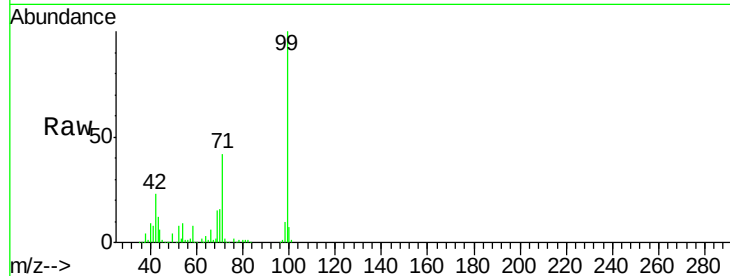
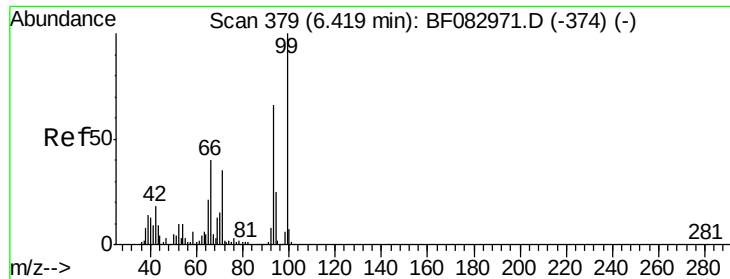


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 30.58 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.02 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

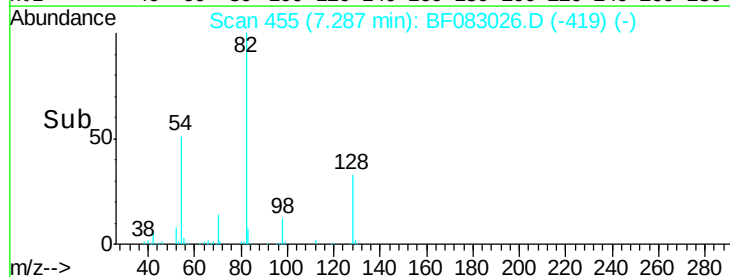
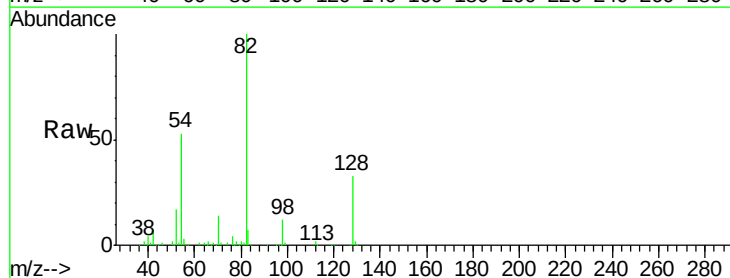
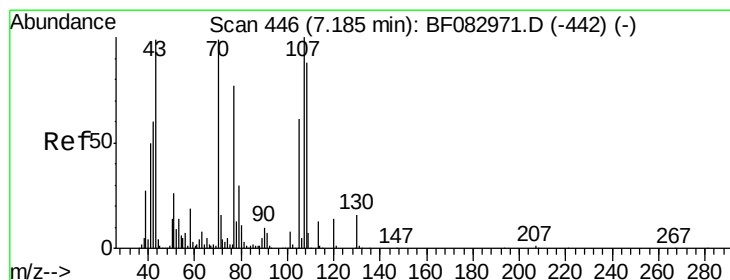
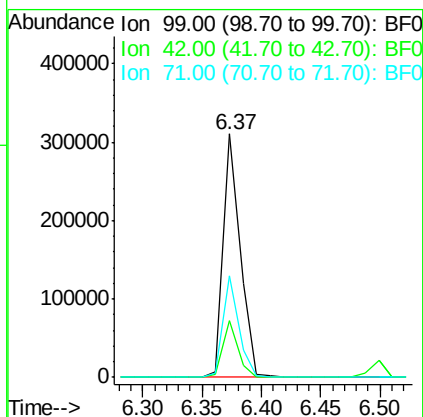
Tot Ion: 99 Resp: 306000

Ion Ratio Lower Upper

99 100

42 23.3 19.2 28.8

71 41.6 35.0 52.4



#19

n-Nitroso-di-n-propylamine

Concen: 3.57 ng

RT: 7.29 min Scan# 455

Delta R.T. 0.11 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Tgt Ion: 70 Resp: 26243

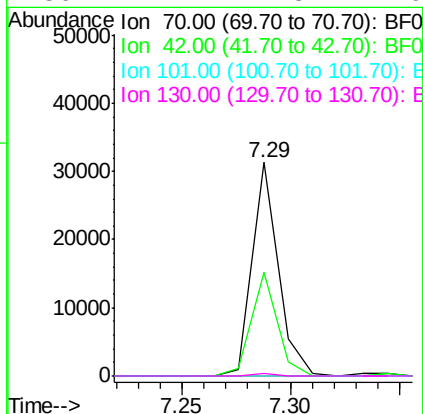
Ion Ratio Lower Upper

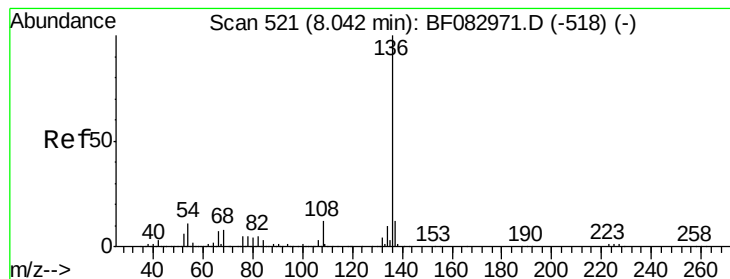
70 100

42 48.4 57.7 86.5#

101 0.0 7.0 10.6#

130 1.4 11.8 17.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 519

Delta R.T. 0.00 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

Tot Ion:136 Resp: 486957

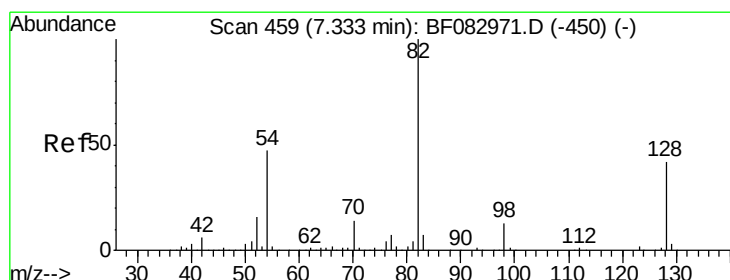
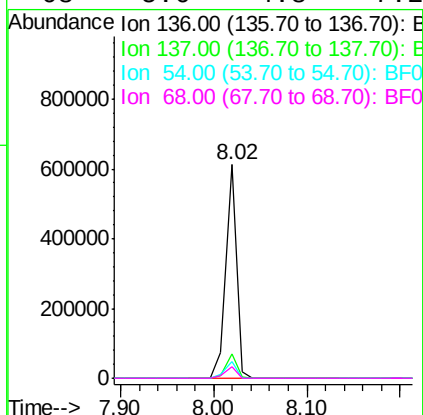
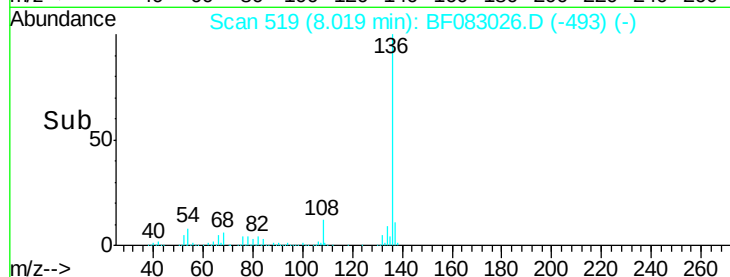
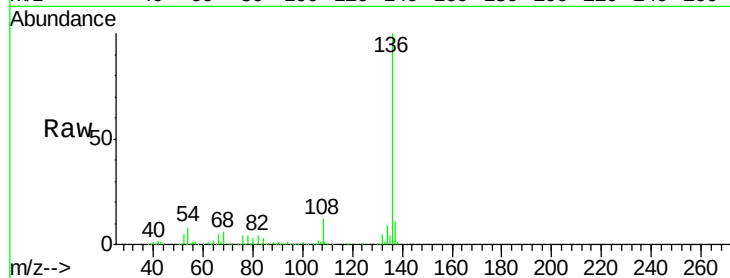
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 7.9 9.1 13.7#

68 5.6 4.8 7.2



#23

Nitrobenzene-d5

Concen: 17.55 ng

RT: 7.29 min Scan# 455

Delta R.T. -0.02 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

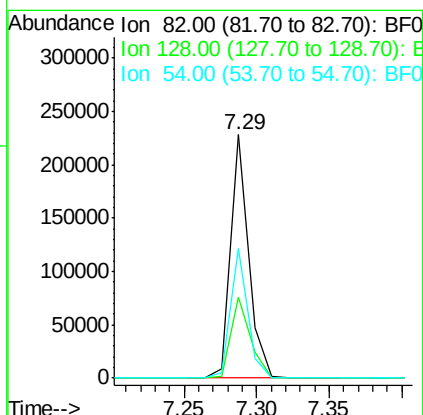
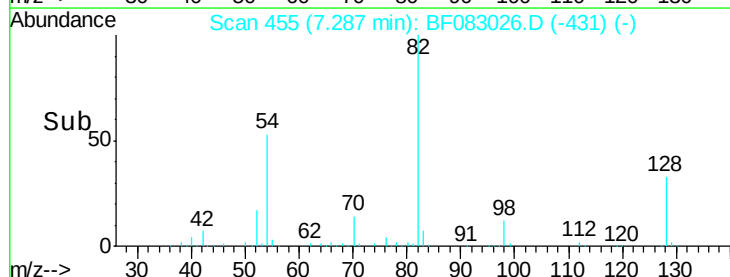
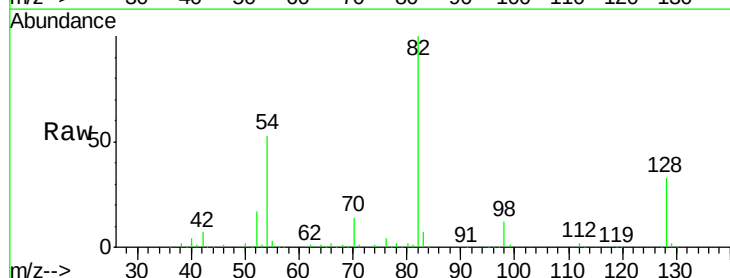
Tgt Ion: 82 Resp: 196409

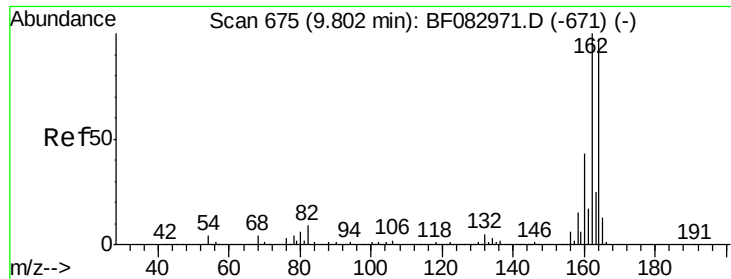
Ion Ratio Lower Upper

82 100

128 33.3 26.8 40.2

54 53.0 45.7 68.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

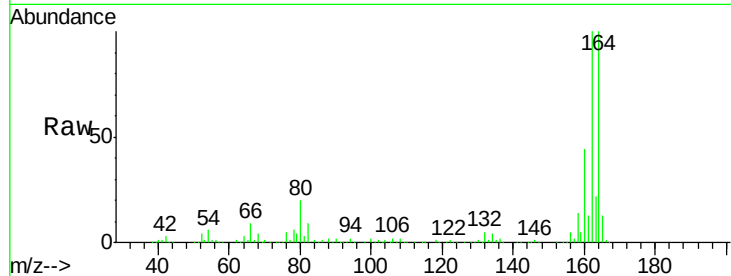
Tot Ion:164 Resp: 227390

Ion Ratio Lower Upper

164 100

162 100.1 84.9 127.3

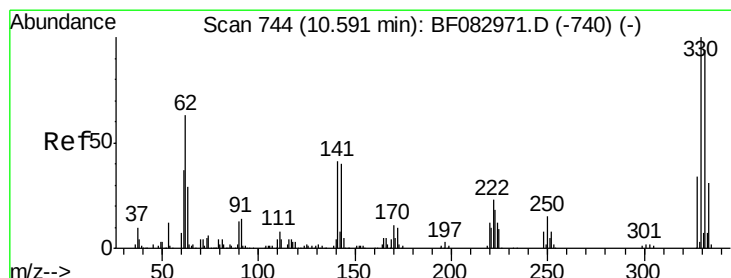
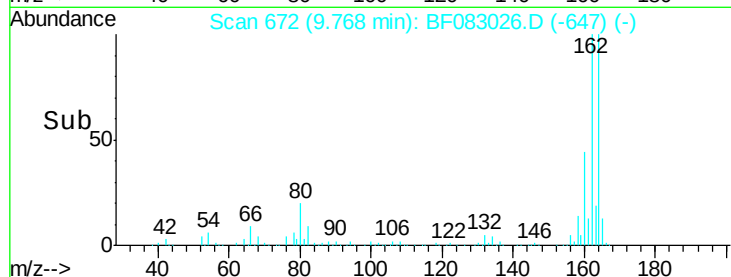
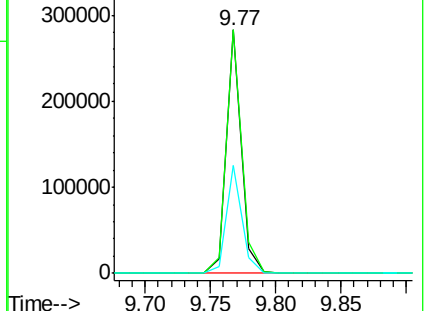
160 44.6 37.5 56.3



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: 19.84 ng

RT: 10.56 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

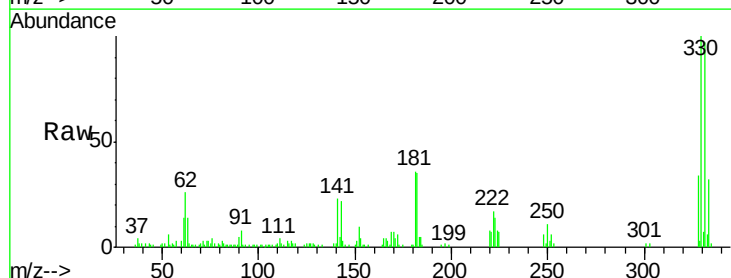
Tgt Ion:330 Resp: 51737

Ion Ratio Lower Upper

330 100

332 96.4 76.6 114.8

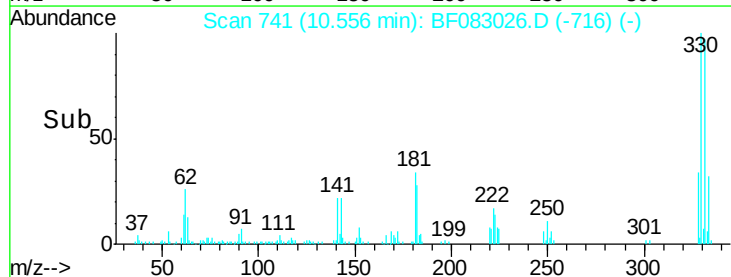
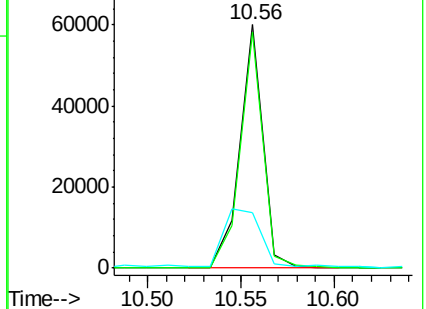
141 44.1 41.2 61.8

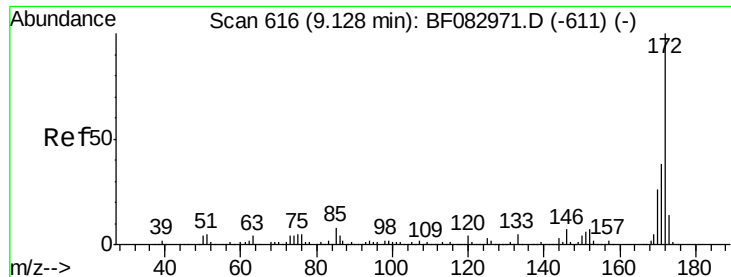


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

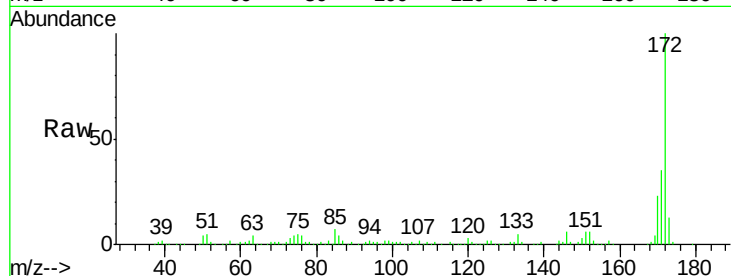




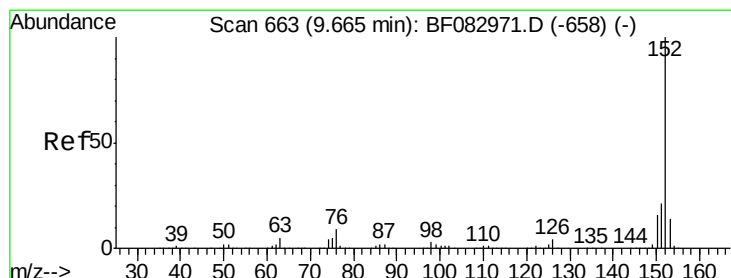
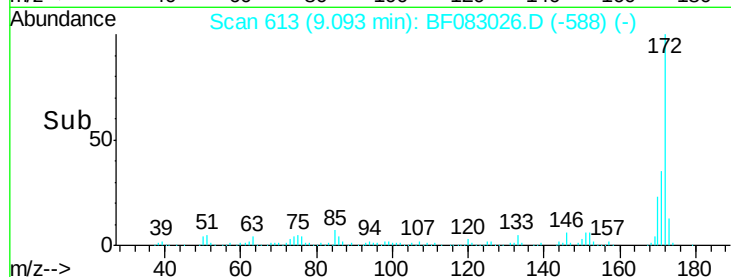
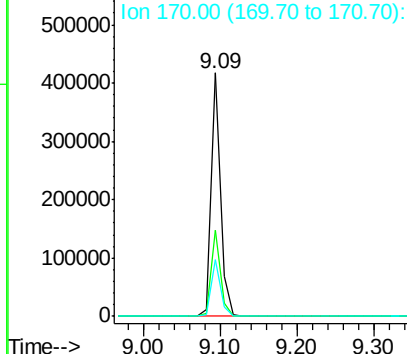
#44
2-Fluorobiphenyl
Concen: 21.87 ng
RT: 9.09 min Scan# 613
Delta R.T. -0.01 min
Lab File: BF083026.D
Acq: 18 Nov 2015 23:53

Instrument :
BNA_F
ClientSampled :
PM-1356

Tot Ion:172 Resp: 346996
Ion Ratio Lower Upper
172 100
171 35.4 30.8 46.2
170 23.4 21.2 31.8

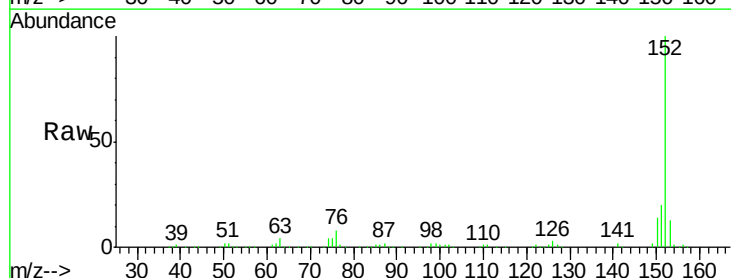


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

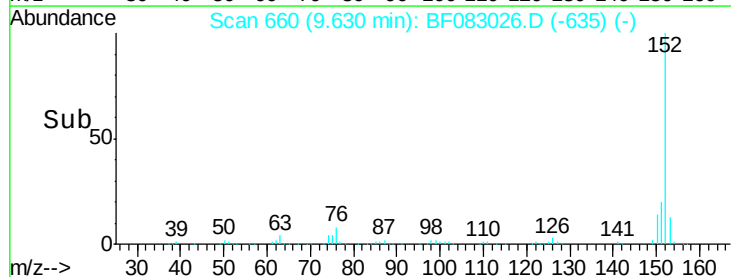
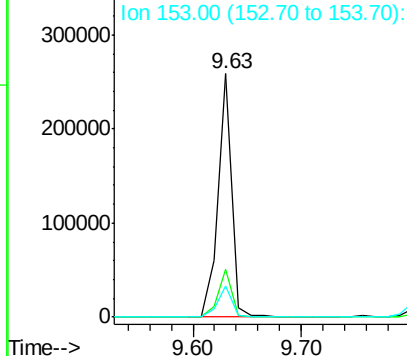


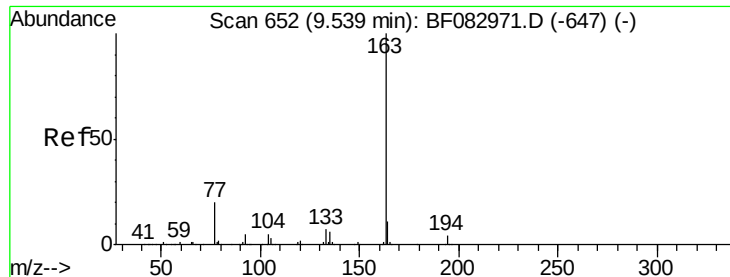
#48
Acenaphthylene
Concen: 9.64 ng
RT: 9.63 min Scan# 660
Delta R.T. -0.01 min
Lab File: BF083026.D
Acq: 18 Nov 2015 23:53

Tgt Ion:152 Resp: 229846
Ion Ratio Lower Upper
152 100
151 19.6 17.3 25.9
153 12.8 11.3 16.9



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

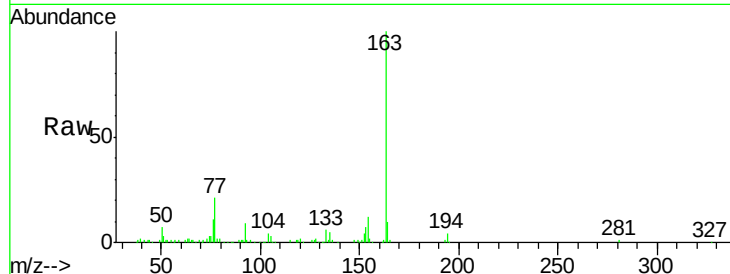




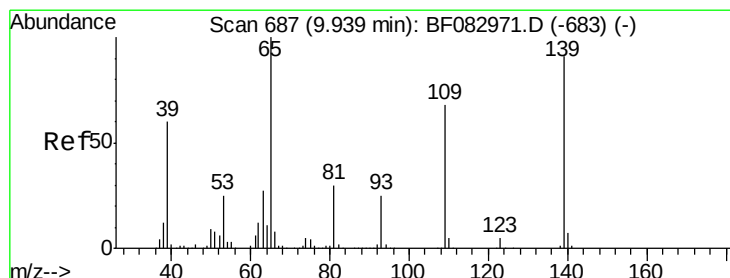
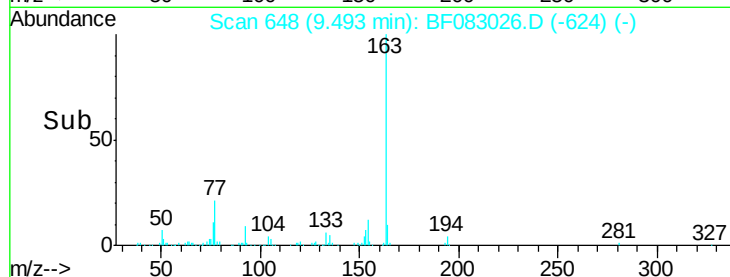
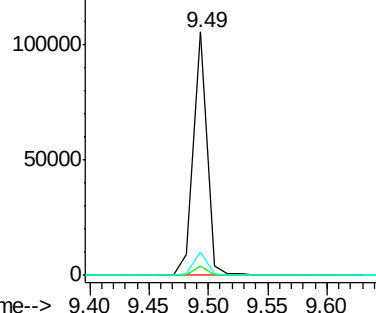
#49
Dimethylphthalate
Concen: 4.45 ng
RT: 9.49 min Scan# 648
Delta R.T. -0.02 min
Lab File: BF083026.D
Acq: 18 Nov 2015 23:53

Instrument :
BNA_F
ClientSampled :
PM-1356

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.6	4.0
164	9.8	8.7	13.1

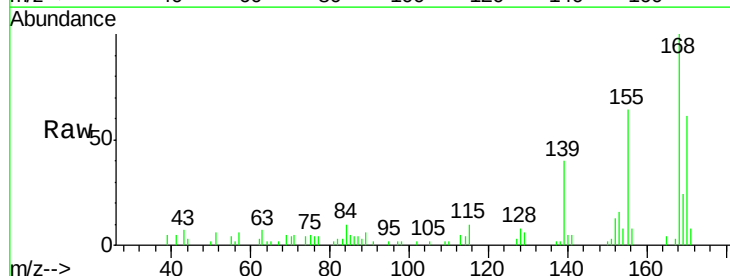


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

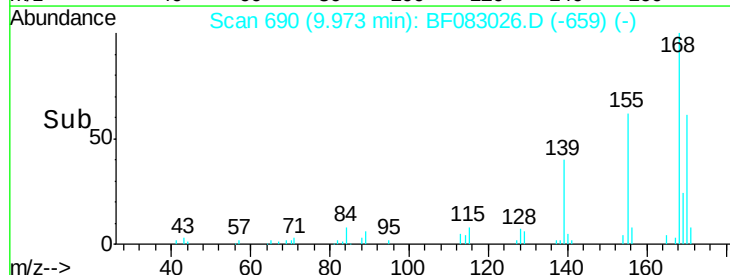
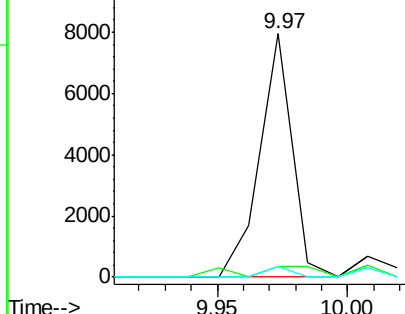


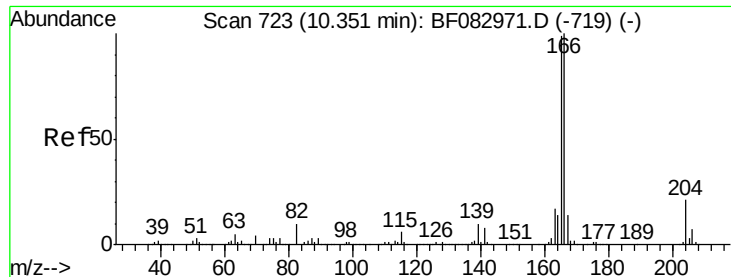
#55
4-Nitrophenol
Concen: 2.07 ng
RT: 9.97 min Scan# 690
Delta R.T. 0.06 min
Lab File: BF083026.D
Acq: 18 Nov 2015 23:53

Tgt Ion	Ratio	Lower	Upper
139	100		
109	4.6	73.7	113.7#
65	4.5	82.9	122.9#



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

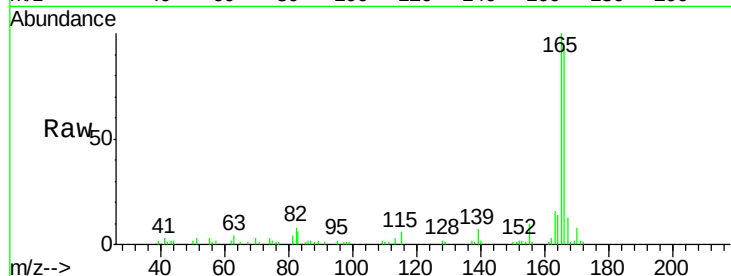




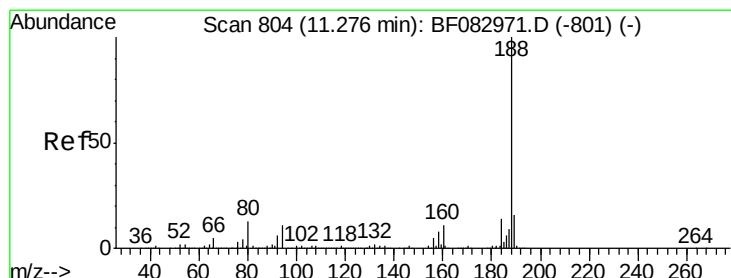
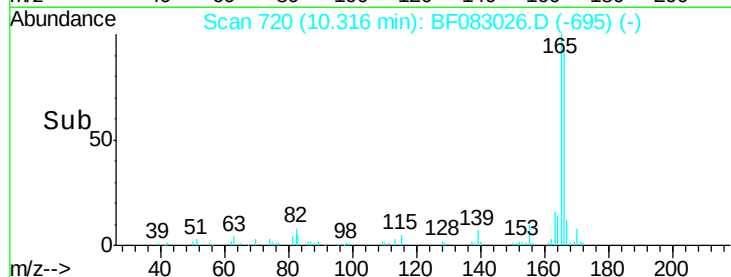
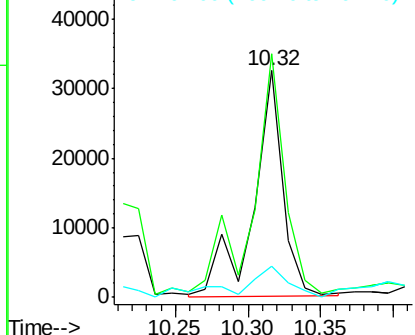
#57
 Fluorene
 Concen: 2.77 ng
 RT: 10.32 min Scan# 720
 Delta R.T. -0.01 min
 Lab File: BF083026.D
 Acq: 18 Nov 2015 23:53

Instrument :
 BNA_F
 ClientSampleId :
 PM-1356

Tot Ion:166 Resp: 45764
 Ion Ratio Lower Upper
 166 100
 165 107.4 80.2 120.4
 167 13.5 11.2 16.8

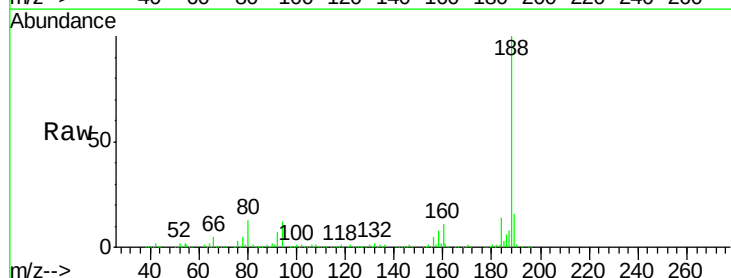


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

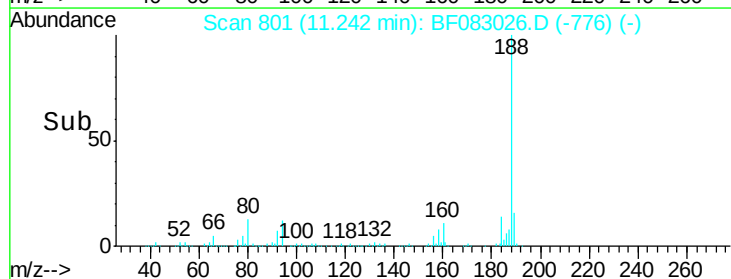
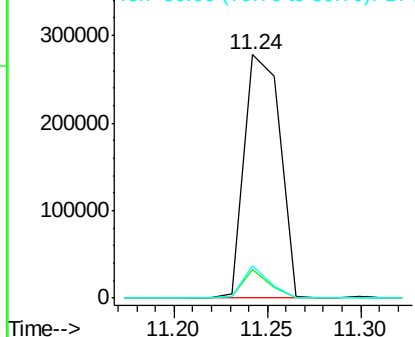


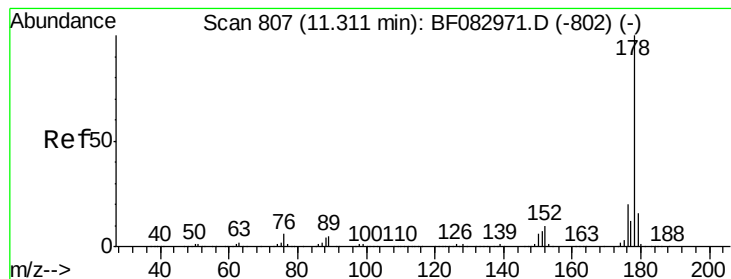
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.24 min Scan# 801
 Delta R.T. -0.01 min
 Lab File: BF083026.D
 Acq: 18 Nov 2015 23:53

Tgt Ion:188 Resp: 370610
 Ion Ratio Lower Upper
 188 100
 94 11.5 6.1 9.1#
 80 13.4 7.0 10.6#



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 23.47 ng

RT: 11.28 min Scan# 804

Delta R.T. 0.00 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

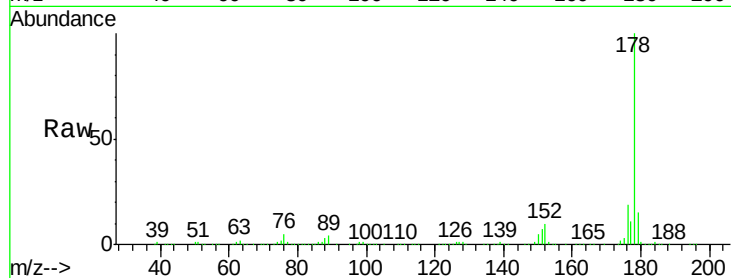
Tot Ion:178 Resp: 505052

Ion Ratio Lower Upper

178 100

176 19.1 17.0 25.4

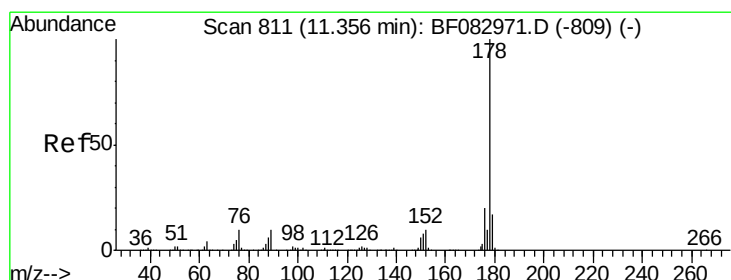
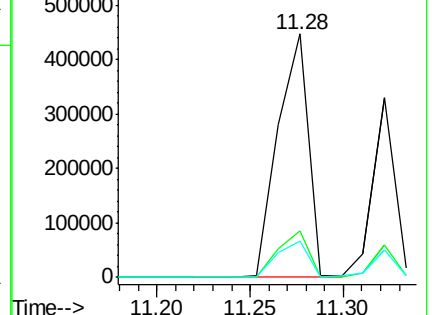
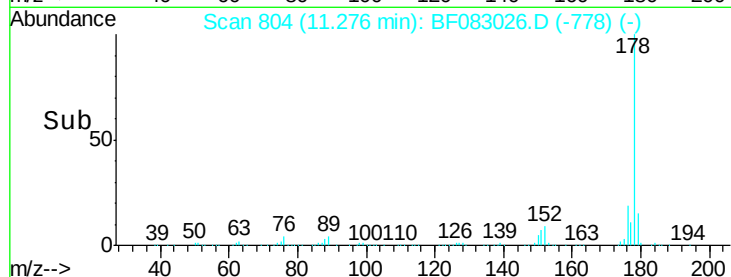
179 15.1 13.4 20.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 11.99 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

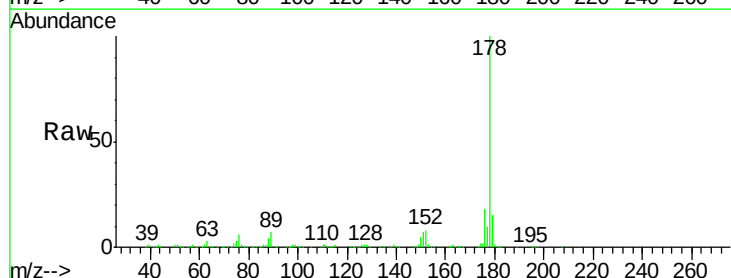
Tgt Ion:178 Resp: 271758

Ion Ratio Lower Upper

178 100

176 18.1 16.5 24.7

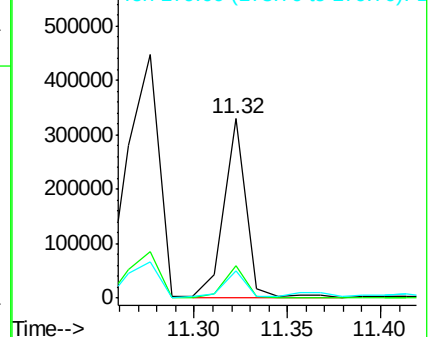
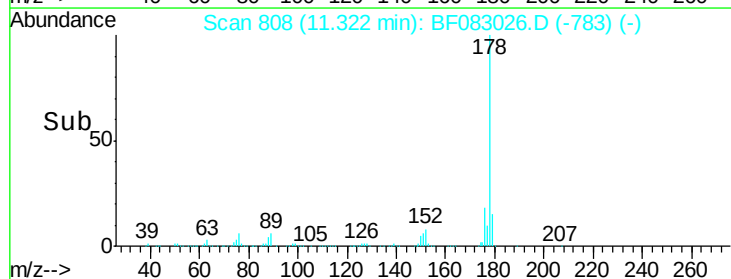
179 15.0 13.2 19.8

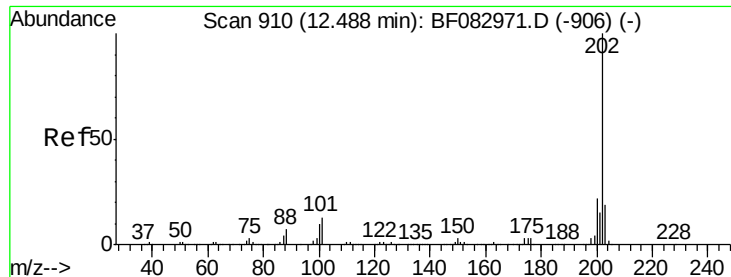


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 52.03 ng

RT: 12.47 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

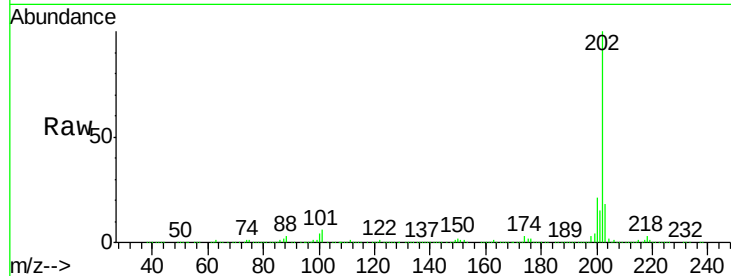
Tot Ion:202 Resp: 1201767

Ion Ratio Lower Upper

202 100

101 5.6 0.0 30.5

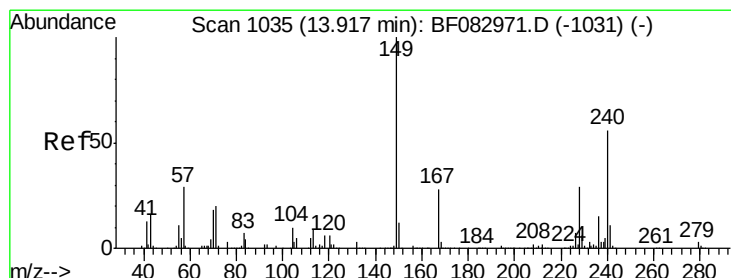
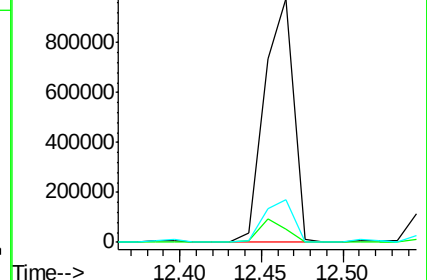
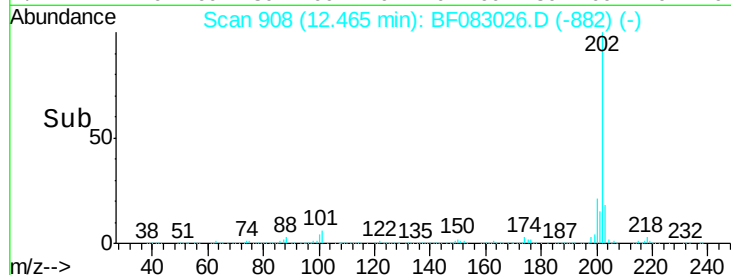
203 17.6 0.0 38.5



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: 13.88 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

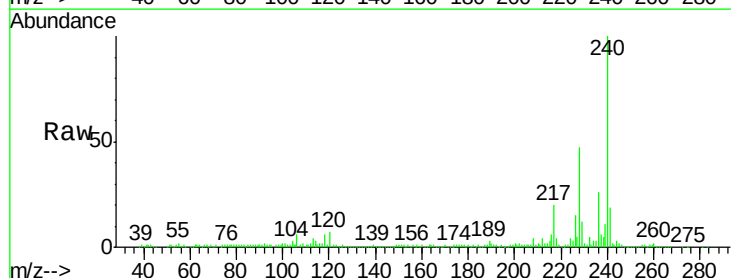
Tgt Ion:240 Resp: 277662

Ion Ratio Lower Upper

240 100

120 7.0 10.9 16.3#

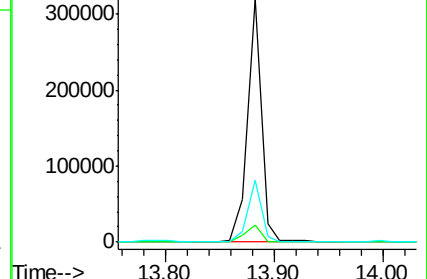
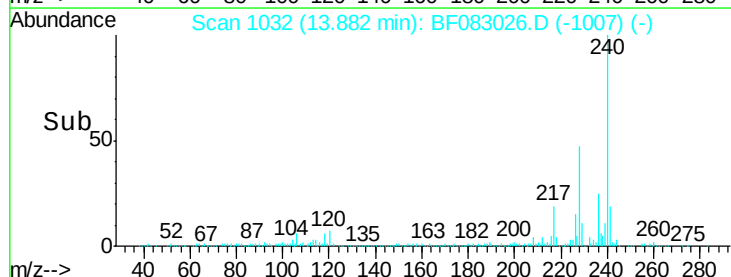
236 25.6 21.6 32.4

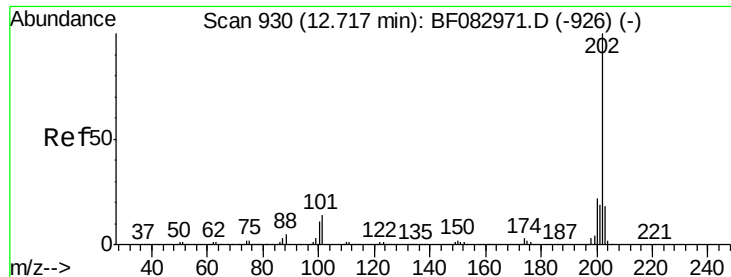


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 51.19 ng

RT: 12.68 min Scan# 927

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

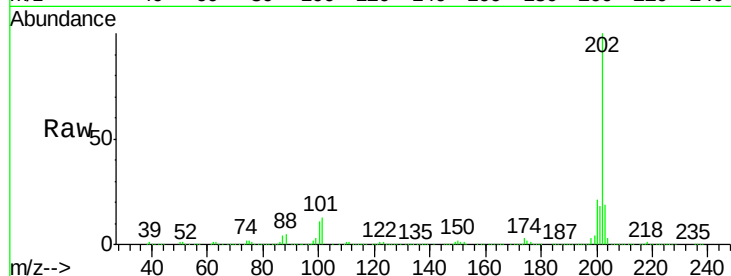
Tot Ion:202 Resp: 976130

Ion Ratio Lower Upper

202 100

200 21.4 18.7 28.1

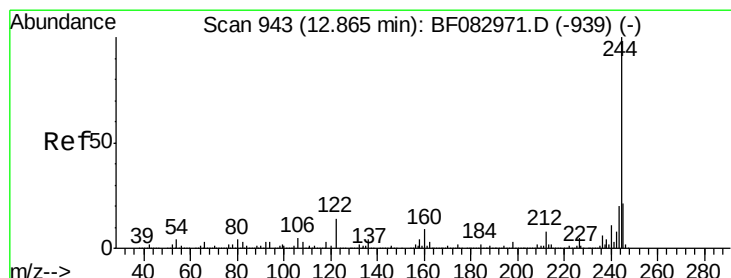
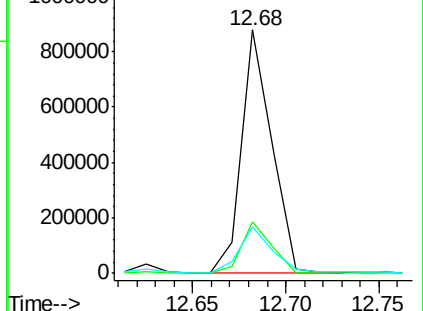
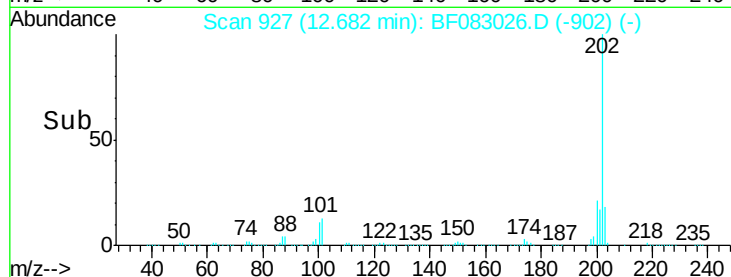
203 19.2 14.8 22.2



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: 20.43 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

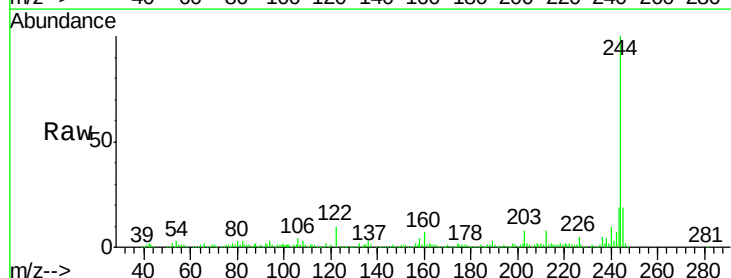
Tgt Ion:244 Resp: 239144

Ion Ratio Lower Upper

244 100

212 7.6 7.6 11.4#

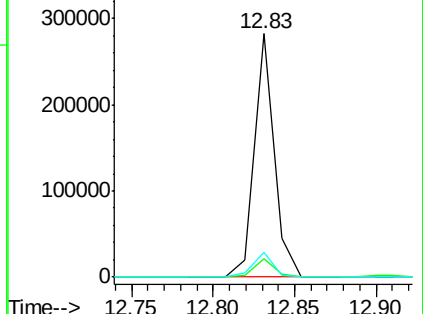
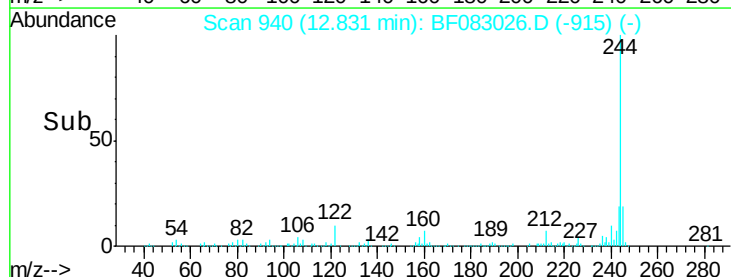
122 10.0 11.3 16.9#

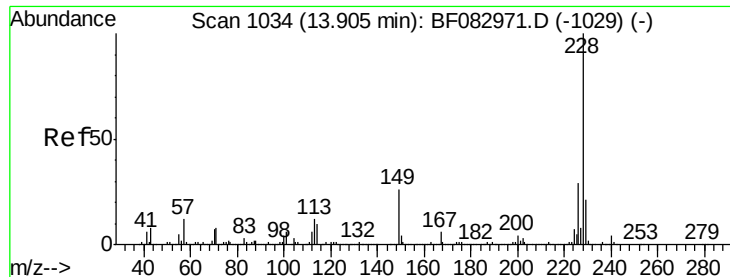


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 43.69 ng

RT: 13.87 min Scan# 1031

Delta R.T. 0.00 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

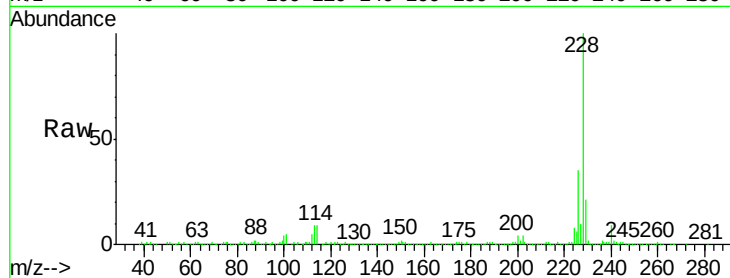
Tot Ion:228 Resp: 758675

Ion Ratio Lower Upper

228 100

226 35.1 23.4 35.2

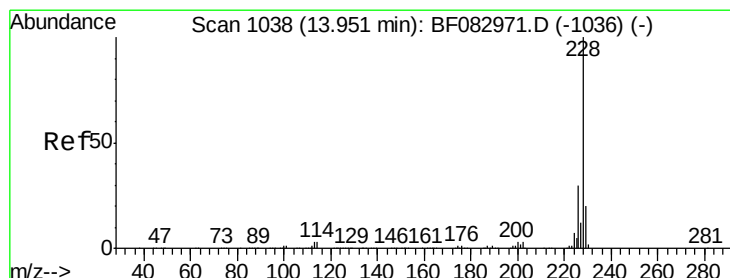
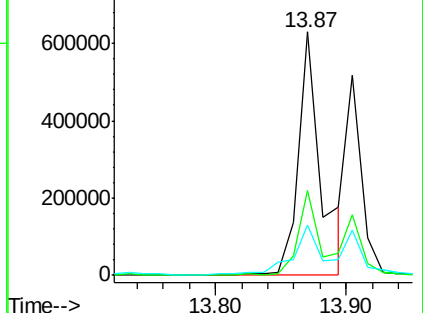
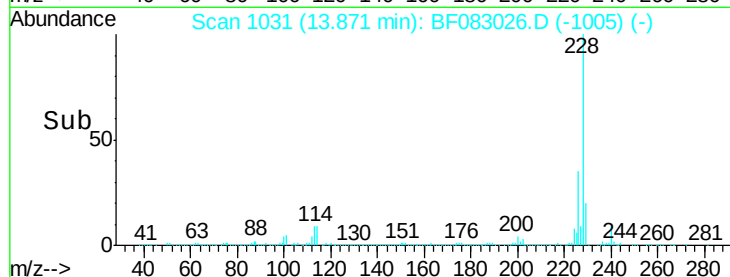
229 20.5 16.3 24.5



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: 47.71 ng

RT: 13.87 min Scan# 1031

Delta R.T. -0.05 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

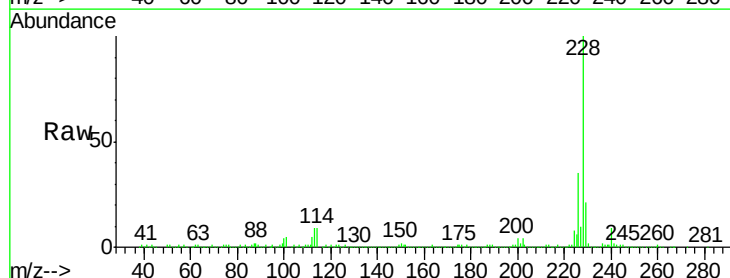
Tgt Ion:228 Resp: 758675

Ion Ratio Lower Upper

228 100

226 35.1 25.5 38.3

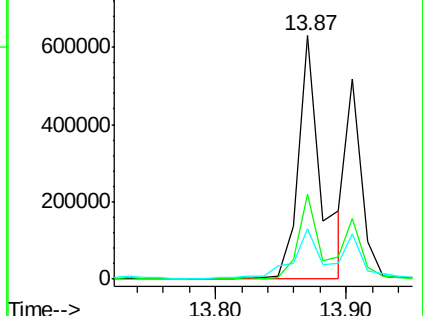
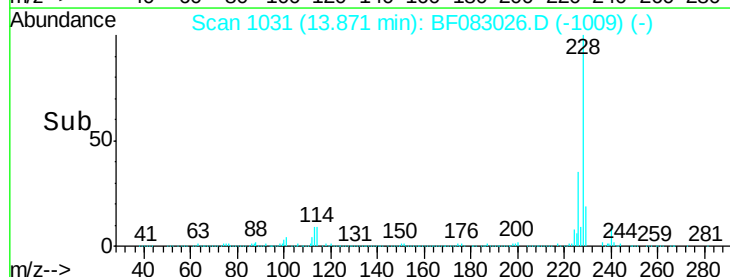
229 20.5 16.3 24.5

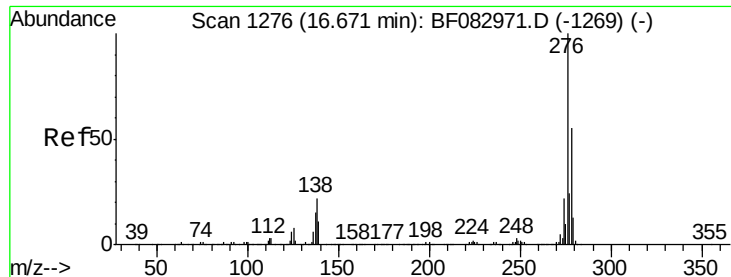


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

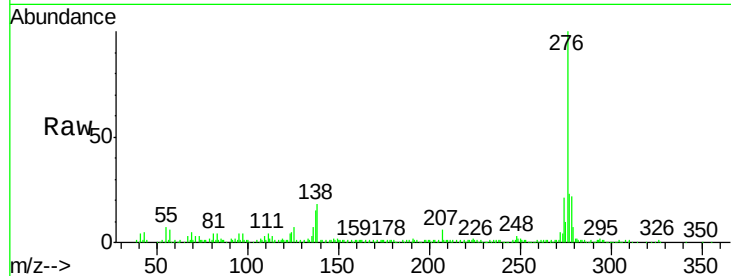




#85
Indeno(1,2,3-cd)pyrene
Concen: 14.84 ng
RT: 16.58 min Scan# 1268
Delta R.T. -0.02 min
Lab File: BF083026.D
Acq: 18 Nov 2015 23:53

Instrument :
BNA_F
ClientSampleId :
PM-1356

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.4	15.3	22.9
277	24.1	20.2	30.4

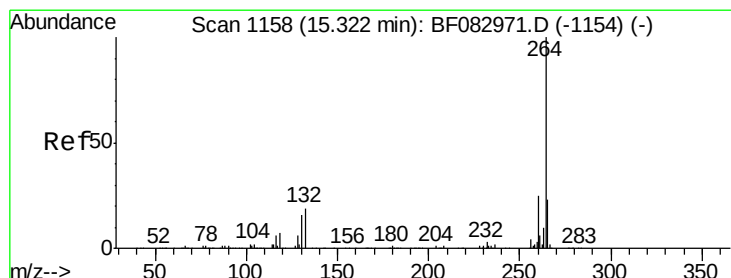
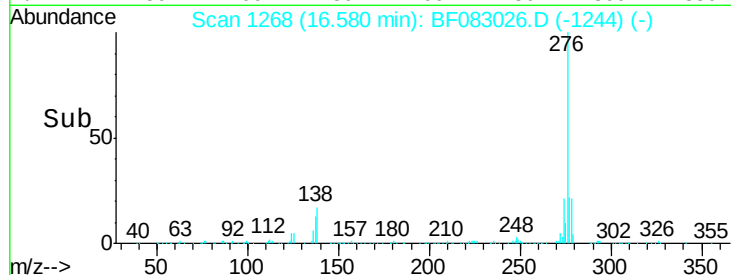
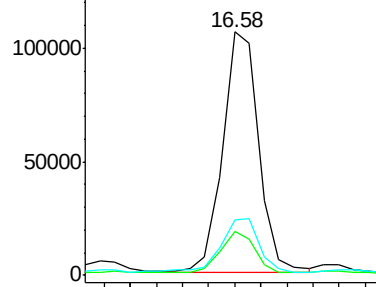


Abundance

Ion 276.00 (275.70 to 276.70): E

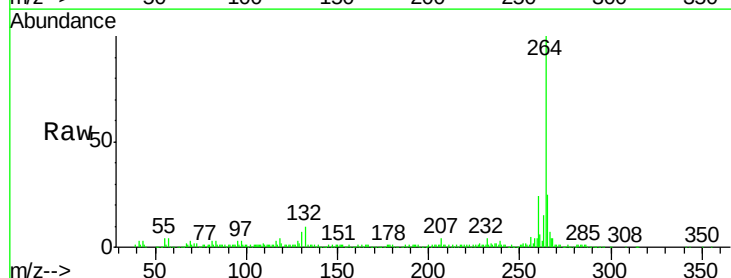
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.28 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF083026.D
Acq: 18 Nov 2015 23:53

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.8	29.6
265	24.5	17.4	26.0

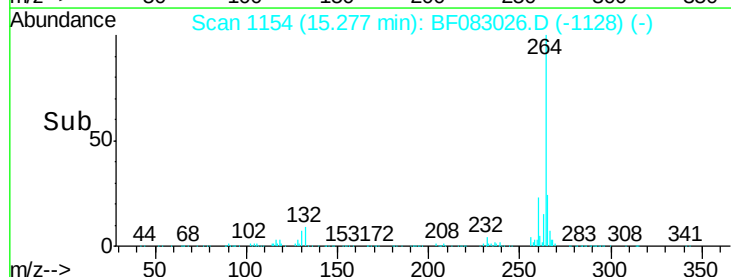
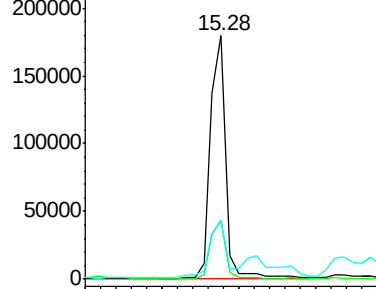


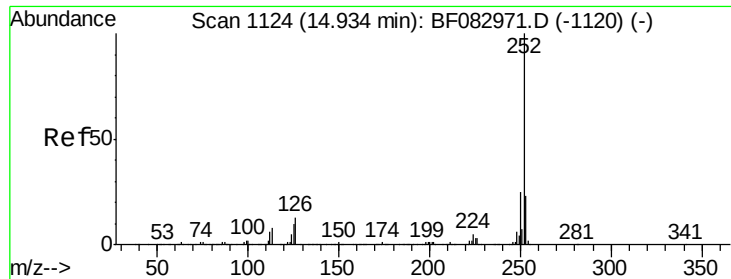
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 54.89 ng

RT: 14.89 min Scan# 1120

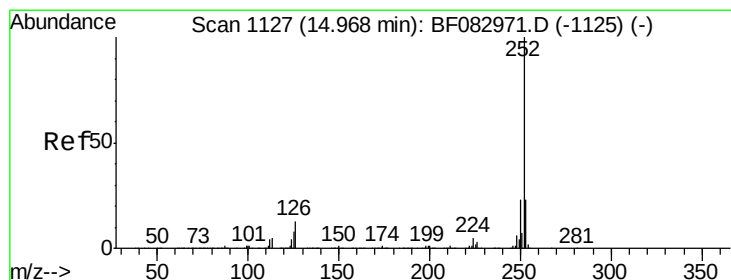
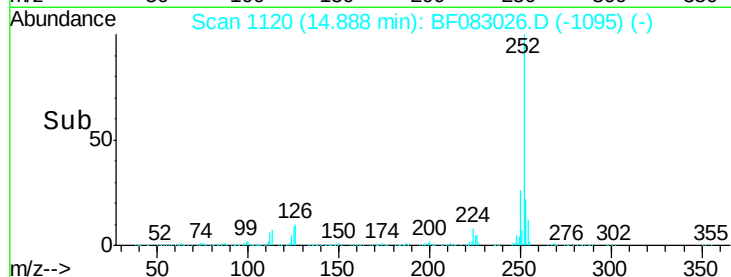
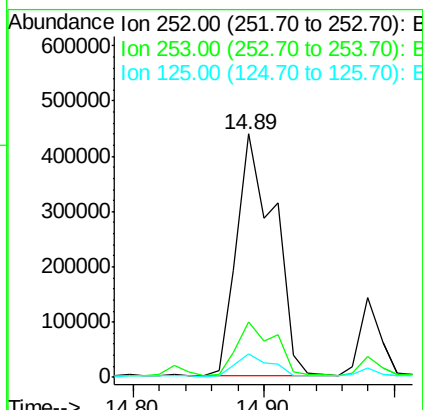
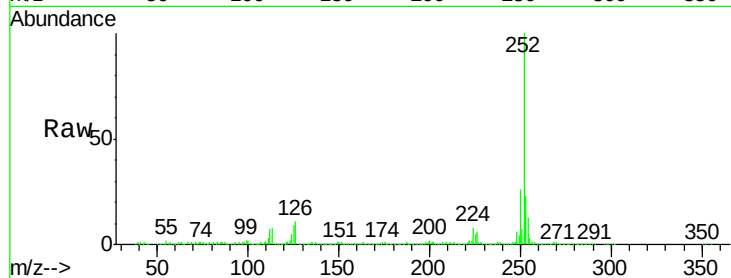
Delta R.T. -0.01 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :
BNA_F
ClientSampleId :
PM-1356

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.8
125	9.4	5.4	8.2#



#88

Benzo(k)fluoranthene

Concen: 61.82 ng

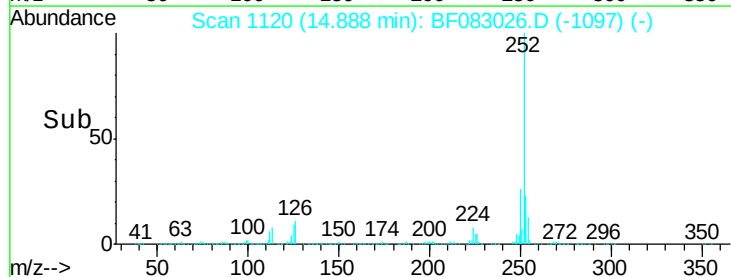
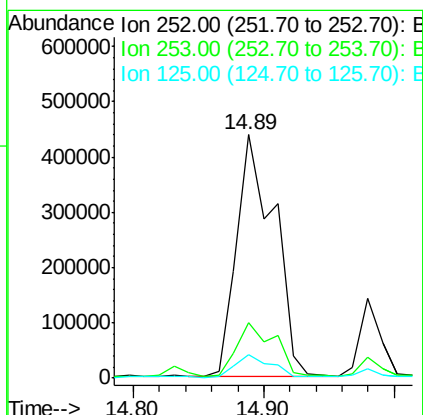
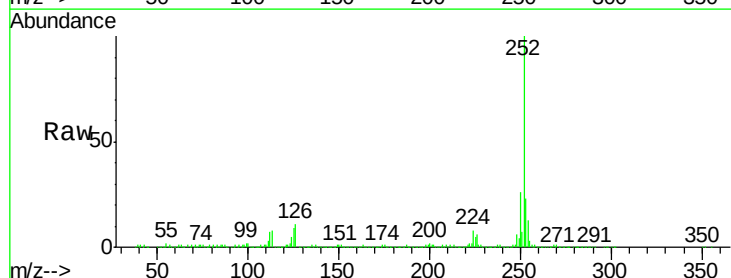
RT: 14.89 min Scan# 1120

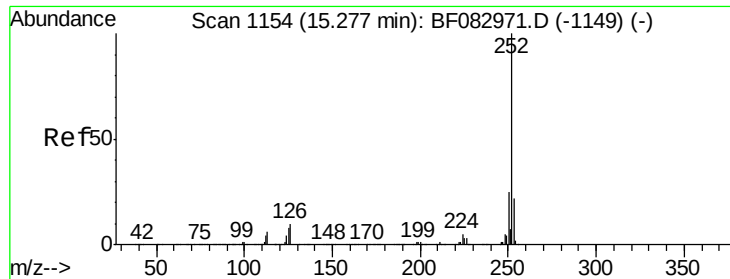
Delta R.T. -0.03 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	9.4	3.5	5.3#





#89

Benzo(a)pyrene

Concen: 20.34 ng

RT: 15.16 min Scan# 1144

Delta R.T. -0.07 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

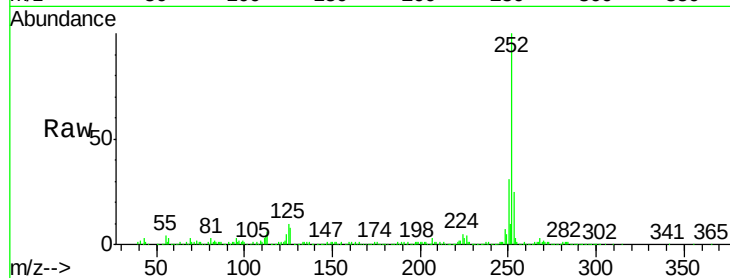
Tot Ion:252 Resp: 282684

Ion Ratio Lower Upper

252 100

253 24.8 17.3 25.9

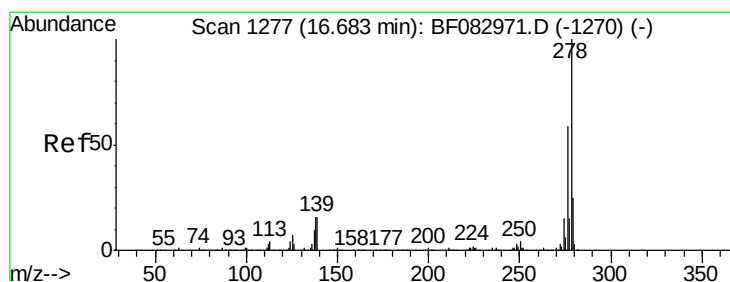
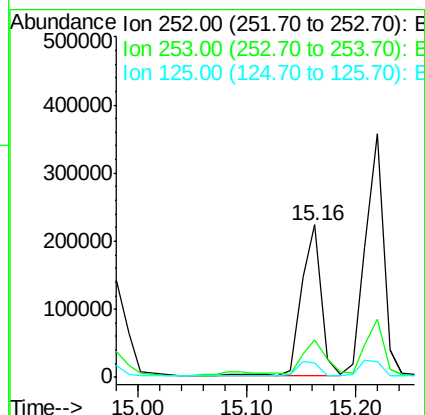
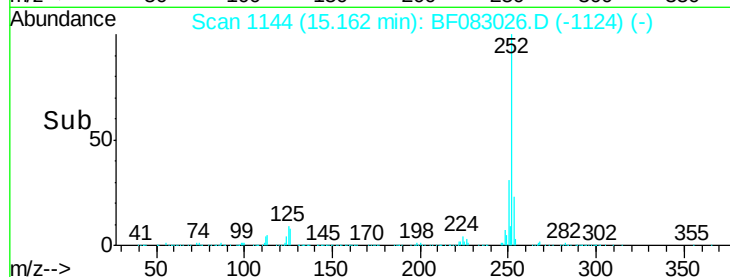
125 9.6 7.1 10.7



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



#90

Dibenzo(a,h)anthracene

Concen: 4.25 ng

RT: 16.74 min Scan# 1282

Delta R.T. 0.11 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

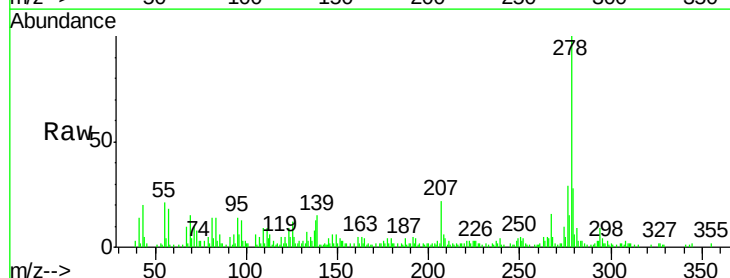
Tgt Ion:278 Resp: 50007

Ion Ratio Lower Upper

278 100

139 14.7 9.9 14.9

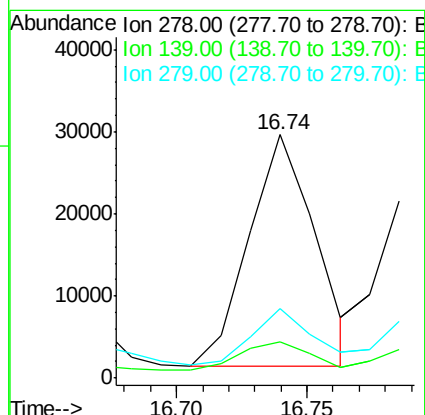
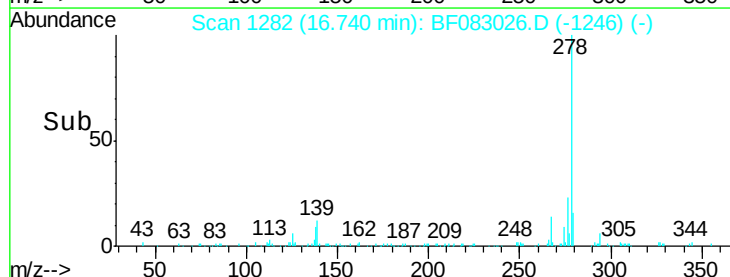
279 28.3 19.6 29.4

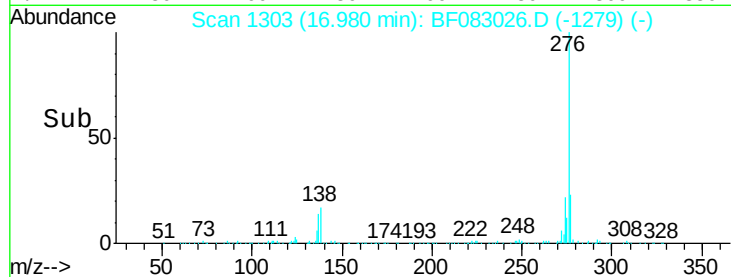
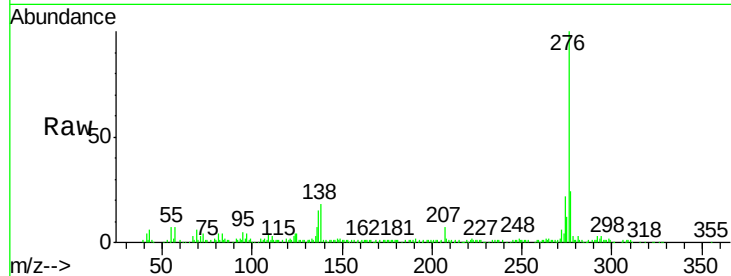
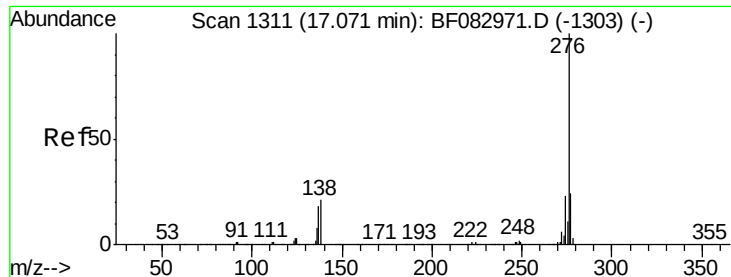


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 14.33 ng

RT: 16.98 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF083026.D

Acq: 18 Nov 2015 23:53

Instrument :

BNA_F

ClientSampleId :

PM-1356

Tot Ion: 276 Resp: 161555

Ion Ratio Lower Upper

276 100

277 23.8 19.2 28.8

138 17.6 13.1 19.7

