

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120715\
 Data File : BF083588.D
 Acq On : 8 Dec 2015 8:14
 Operator : UM/IZ
 Sample : G4584-10DL 20X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)DL

Quant Time: Dec 08 09:59:47 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.72	152	139459	20.00	ng	-0.05
21) Naphthalene-d8	7.62	136	506435	20.00	ng	-0.06
38) Acenaphthene-d10	10.41	164	221873	20.00	ng	-0.06
63) Phenanthrene-d10	12.81	188	354042	20.00	ng	-0.05
75) Chrysene-d12	17.01	240	325566	20.00	ng	-0.03
86) Perylene-d12	18.65	264	237109	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.03	112	42721	4.65	ng	0.00
7) Phenol-d6	5.32	99	60253	4.76	ng	0.00
23) Nitrobenzene-d5	6.58	82	40214	3.71	ng	-0.02
41) 2,4,6-Tribromophenol	11.72	330	8154	3.98	ng	-0.03
44) 2-Fluorobiphenyl	9.37	172	66377	4.06	ng	-0.06
78) Terphenyl-d14	15.44	244	50052	3.42	ng	-0.05

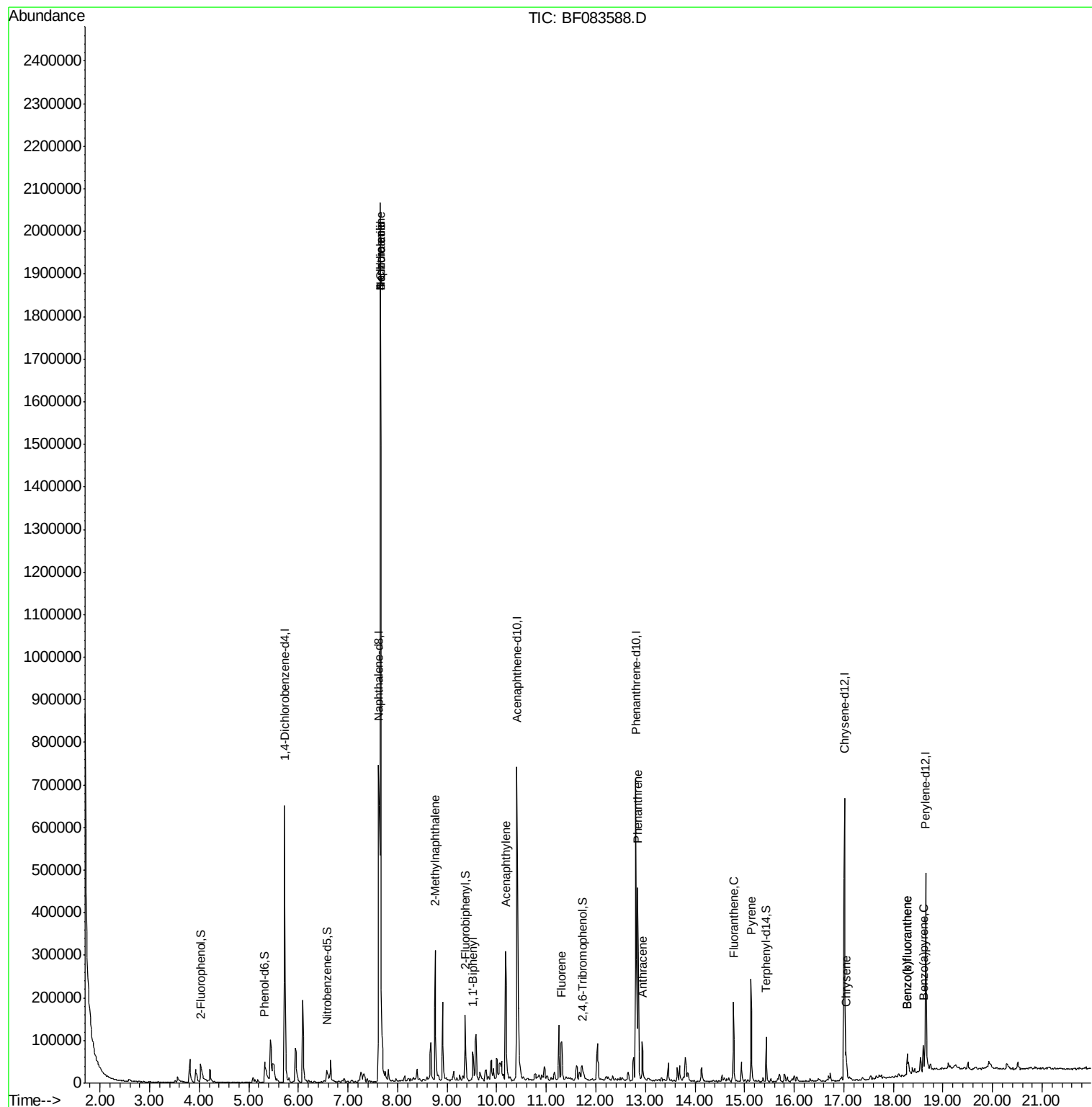
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.65	128	1423060	52.79	ng	99
32) Benzoic acid	7.65	122	2821	3.24	ng	# 1
33) 4-Chloroaniline	7.65	127	185580	17.60	ng	# 27
37) 2-Methylnaphthalene	8.76	142	130531	7.83	ng	99
45) 1,1'-Biphenyl	9.52	154	39706	2.01	ng	97
48) Acenaphthylene	10.18	152	207505	8.53	ng	100
57) Fluorene	11.31	166	52669	3.12	ng	95
70) Phenanthrene	12.84	178	270366	13.12	ng	98
71) Anthracene	12.93	178	68841	3.28	ng	97
74) Fluoranthene	14.77	202	117472	5.75	ng	97
77) Pyrene	15.13	202	158662	6.51	ng	99
82) Chrysene	17.05	228	37960	2.00	ng	99
87) Benzo(b)fluoranthene	18.28	252	35953	2.70	ng	# 94
88) Benzo(k)fluoranthene	18.28	252	35953	2.64	ng	98
89) Benzo(a)pyrene	18.60	252	31438	2.43	ng	97

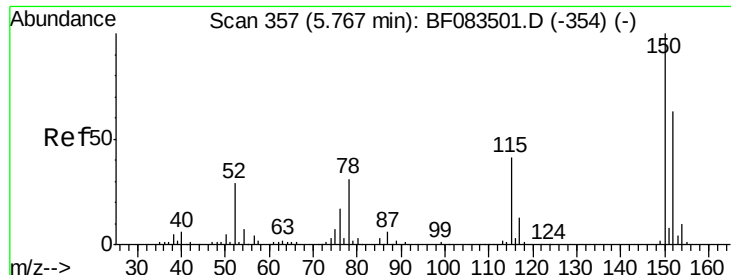
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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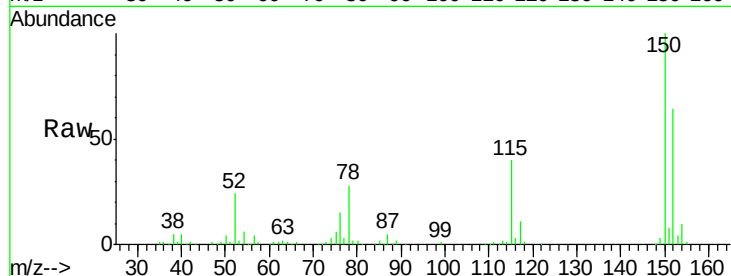




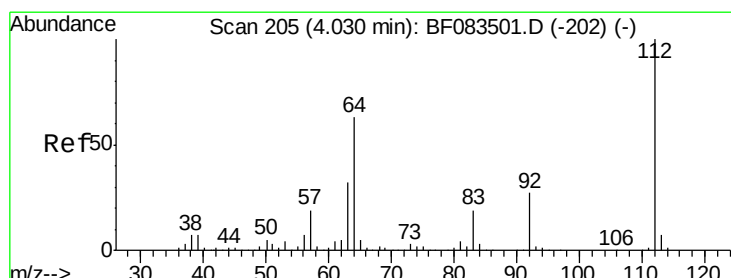
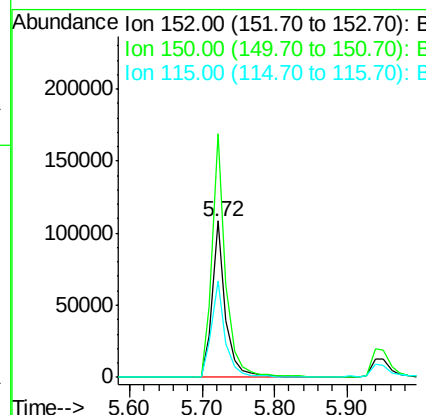
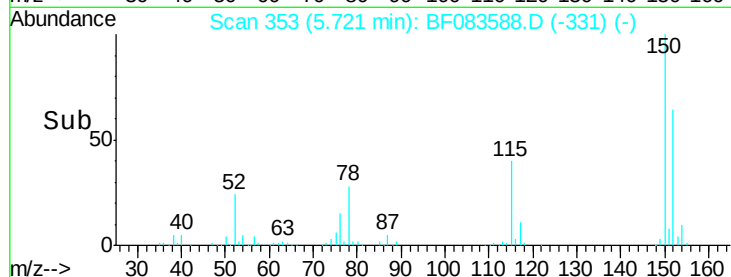
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.72 min Scan# 353
 Delta R.T. -0.05 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)DL

Tot Ion:152 Resp: 139459
 Ion Ratio Lower Upper
 152 100
 150 155.6 126.5 189.7
 115 61.7 52.3 78.5

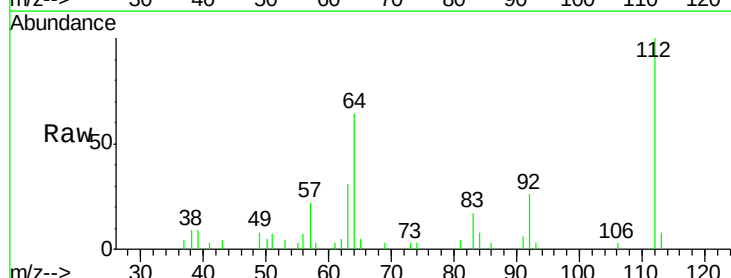


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

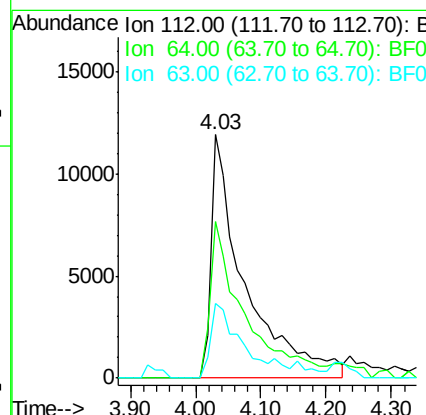
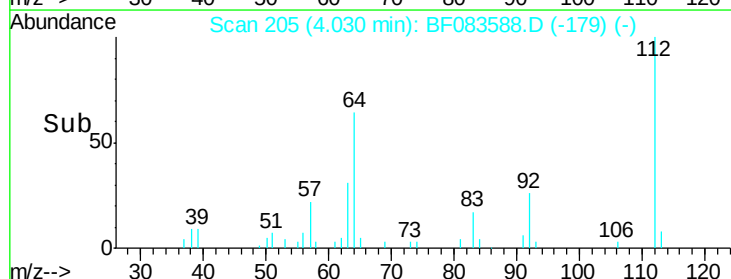


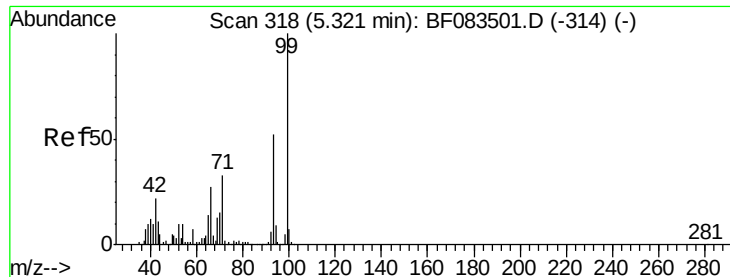
#5
 2-Fluorophenol
 Concen: 4.65 ng
 RT: 4.03 min Scan# 205
 Delta R.T. 0.00 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

Tgt Ion:112 Resp: 42721
 Ion Ratio Lower Upper
 112 100
 64 64.5 50.5 75.7
 63 30.8 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: 4.76 ng

RT: 5.32 min Scan# 318

Delta R.T. 0.00 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-16(4-11)DL

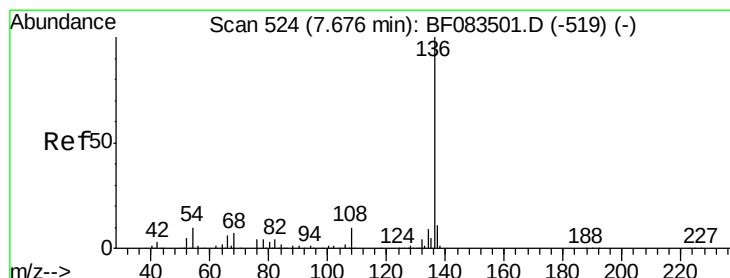
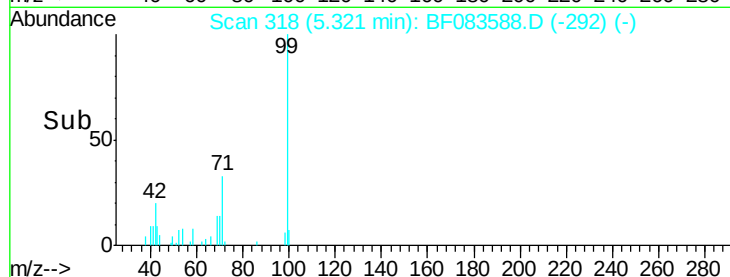
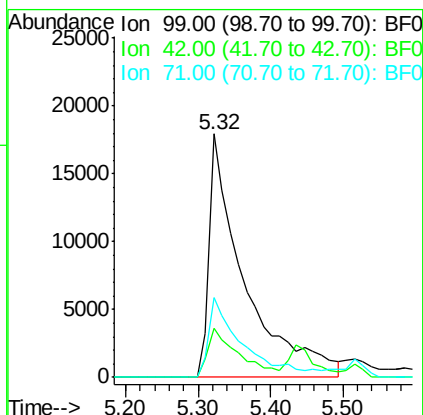
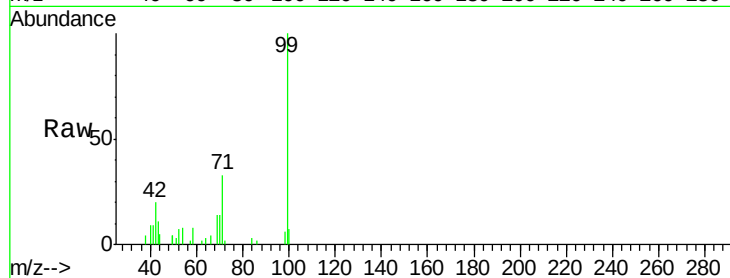
Tot Ion: 99 Resp: 60253

Ion Ratio Lower Upper

99 100

42 20.4 17.3 25.9

71 32.9 26.6 40.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.62 min Scan# 519

Delta R.T. -0.06 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

Tgt Ion: 136 Resp: 506435

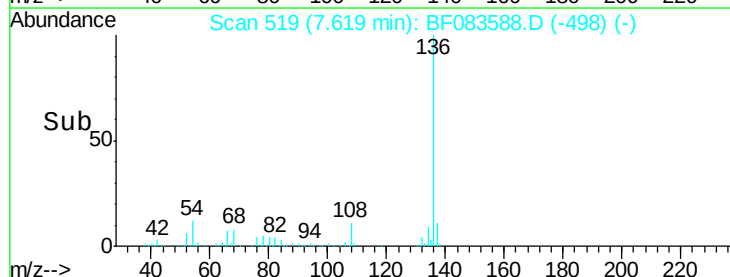
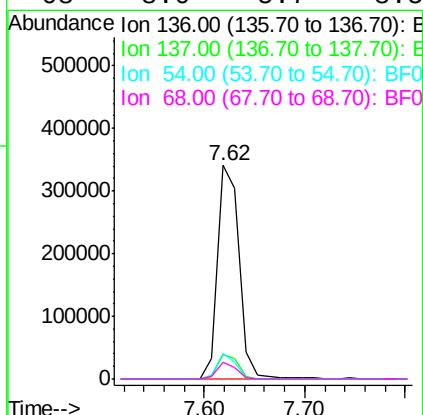
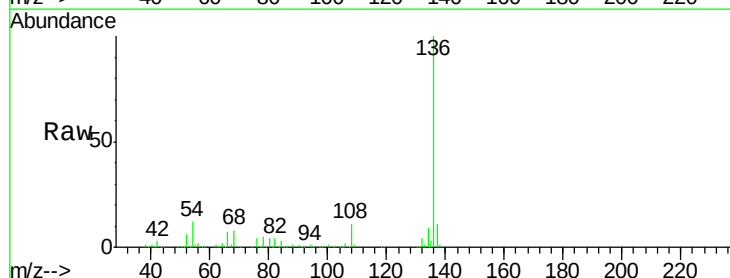
Ion Ratio Lower Upper

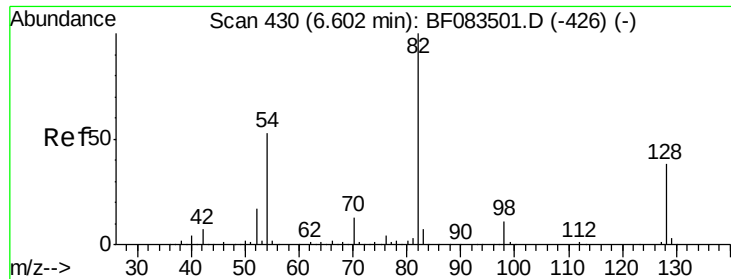
136 100

137 11.3 8.7 13.1

54 11.8 7.8 11.6#

68 8.0 5.7 8.5

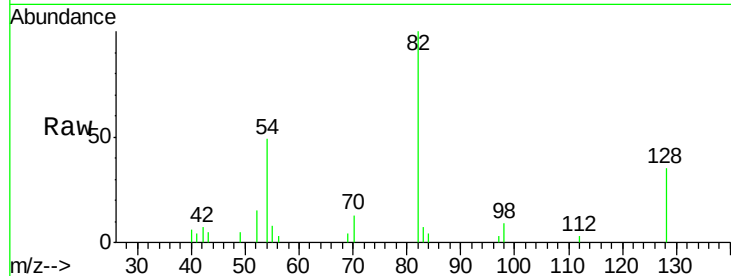




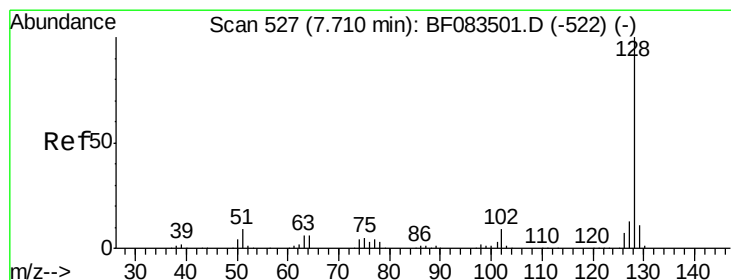
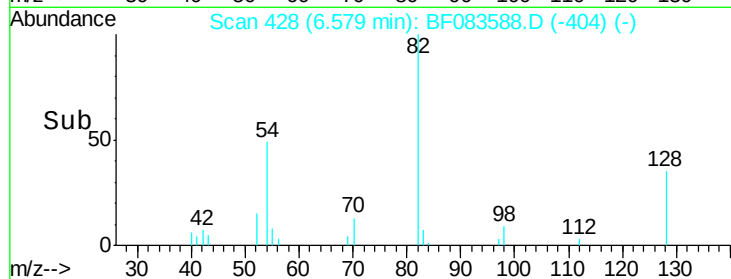
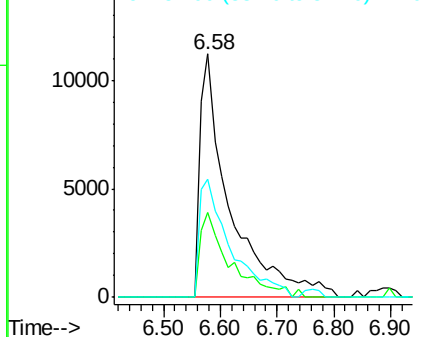
#23
 Nitrobenzene-d5
 Concen: 3.71 ng
 RT: 6.58 min Scan# 428
 Delta R.T. -0.02 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)DL

Tot Ion	82	Resp	40214
Ion Ratio	Lower	Upper	
82	100		
128	35.1	30.7	46.1
54	48.7	42.5	63.7

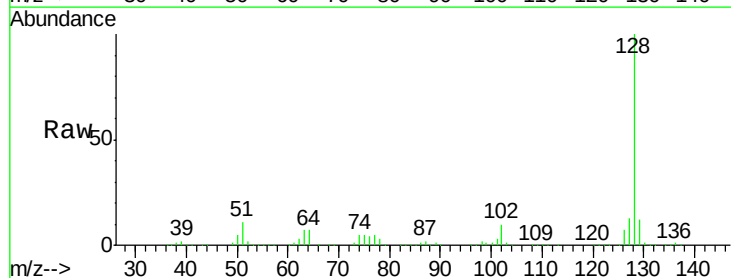


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

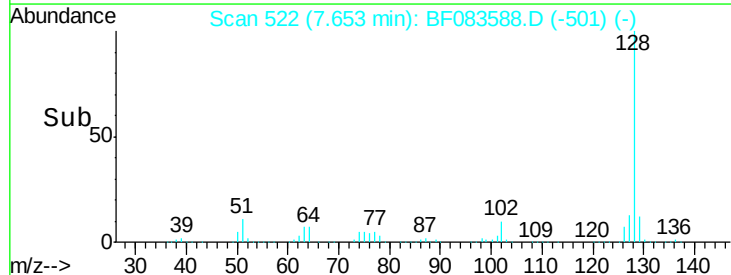
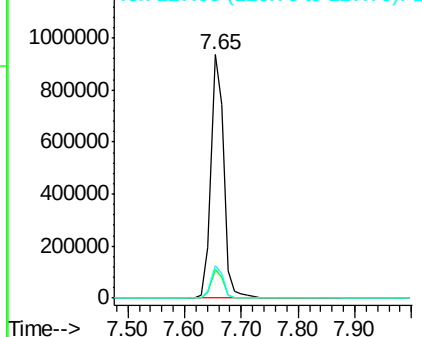


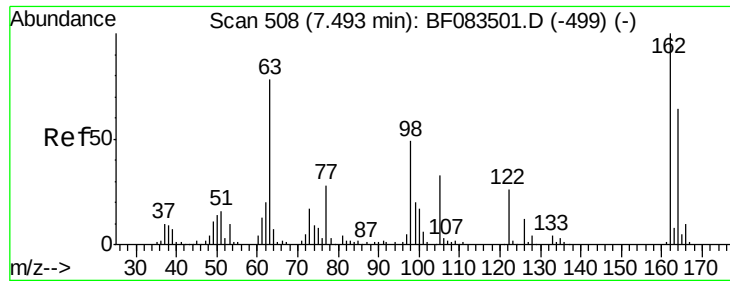
#31
 Naphthalene
 Concen: 52.79 ng
 RT: 7.65 min Scan# 522
 Delta R.T. -0.06 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

Tgt Ion	128	Resp	1423060
Ion Ratio	Lower	Upper	
128	100		
129	11.7	8.6	13.0
127	13.2	10.6	16.0



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

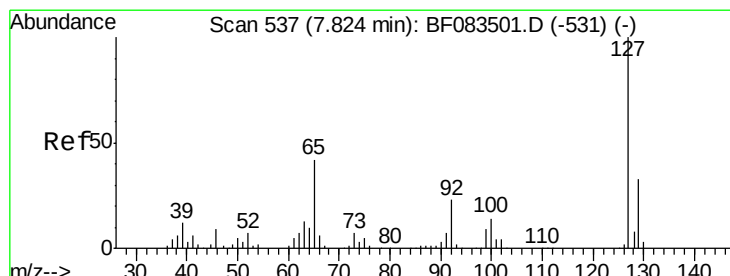
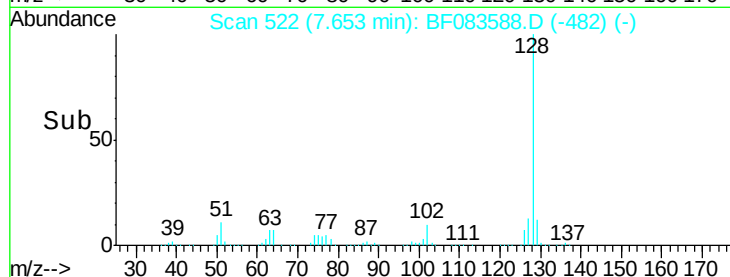
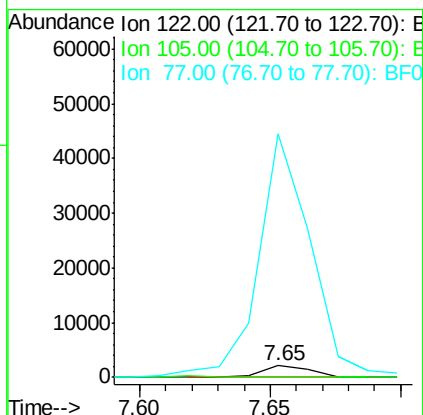
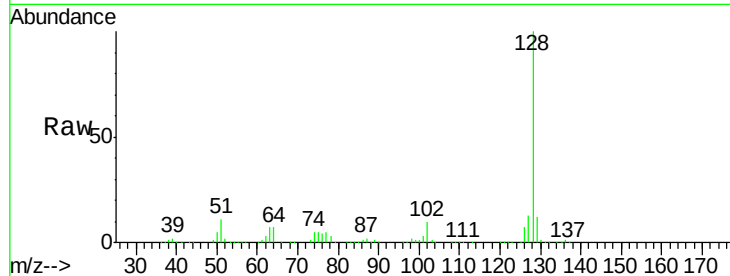




#32
Benzoic acid
Concen: 3.24 ng
RT: 7.65 min Scan# 522
Delta R.T. 0.16 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

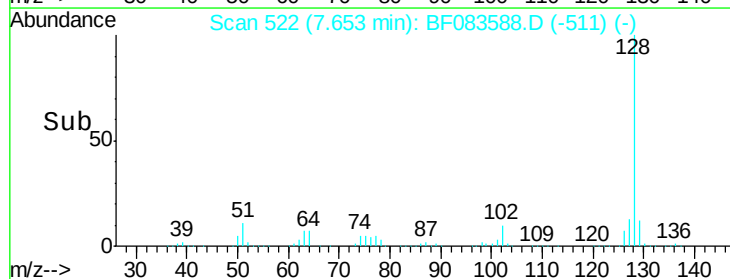
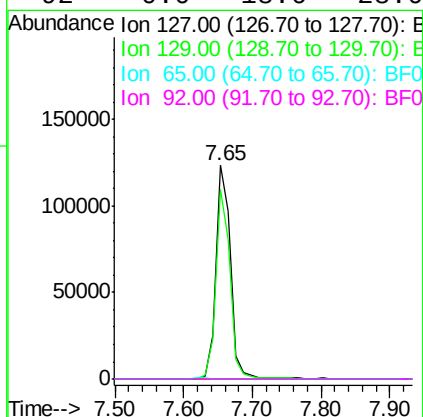
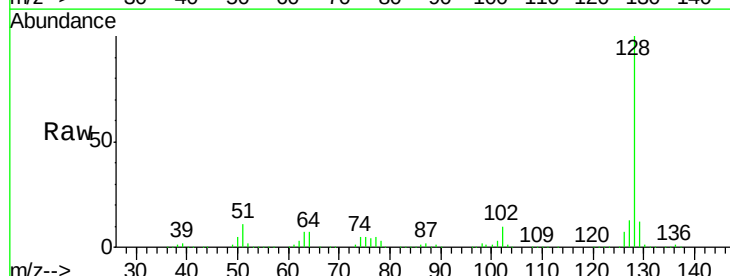
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)DL

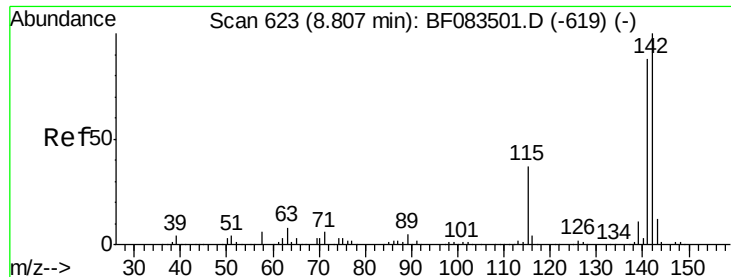
Tot Ion:122 Resp: 2821
Ion Ratio Lower Upper
122 100
105 0.0 105.6 145.6#
77 2087.1 86.8 126.8#



#33
4-Chloroaniline
Concen: 17.60 ng
RT: 7.65 min Scan# 522
Delta R.T. -0.17 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

Tgt Ion:127 Resp: 185580
Ion Ratio Lower Upper
127 100
129 88.7 26.1 39.1#
65 0.0 33.5 50.3#
92 0.0 18.6 28.0#

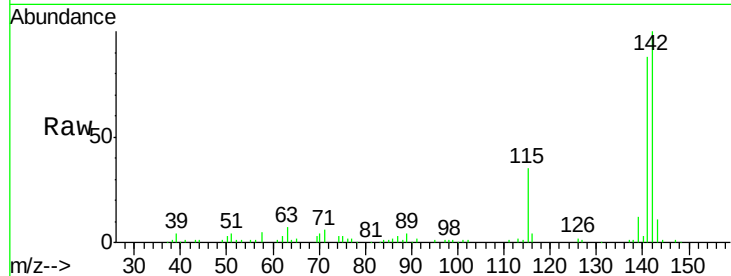




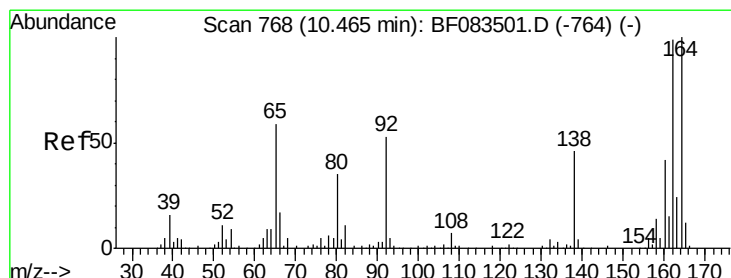
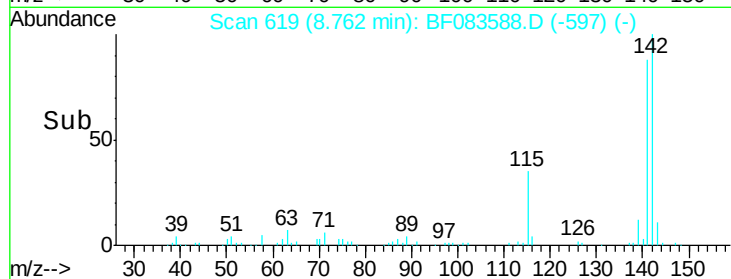
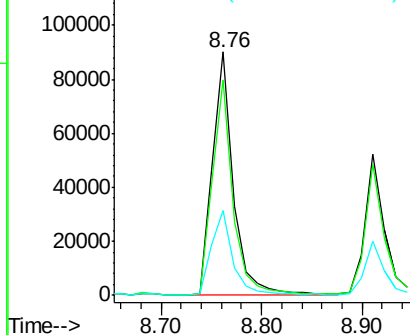
#37
2-Methylnaphthalene
Concen: 7.83 ng
RT: 8.76 min Scan# 619
Delta R.T. -0.05 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.3	105.5
115	34.9	29.2	43.8

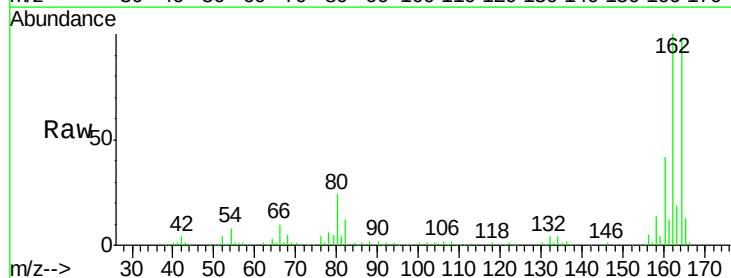


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

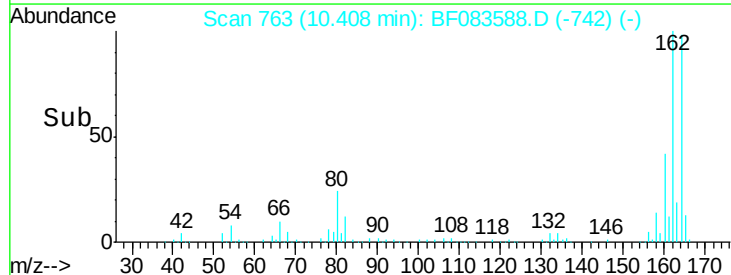
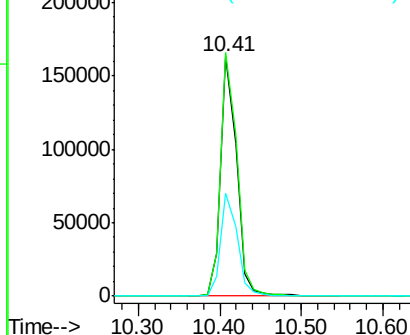


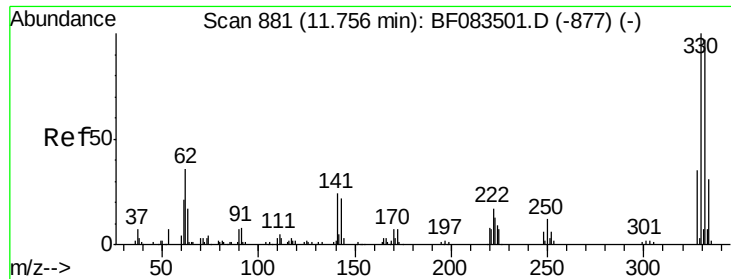
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.41 min Scan# 763
Delta R.T. -0.06 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	78.8	118.2
160	43.0	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

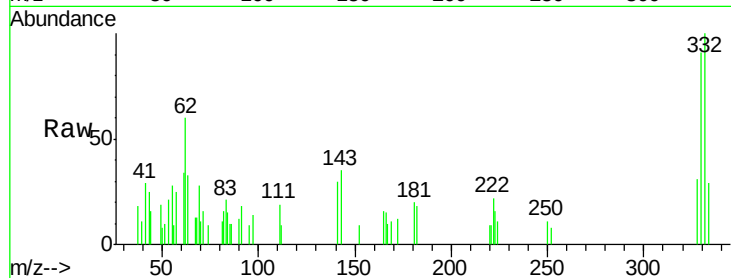




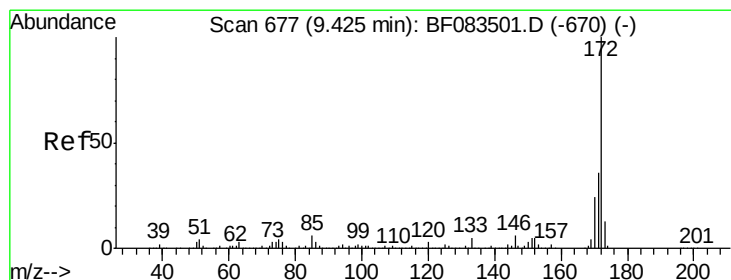
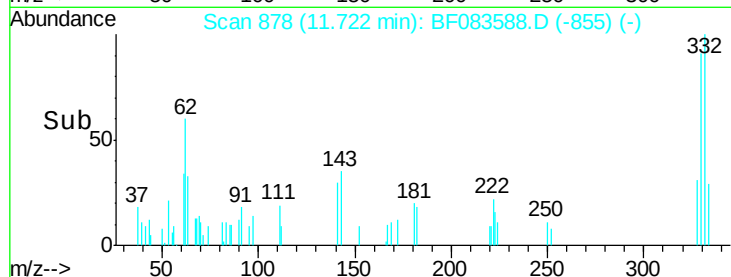
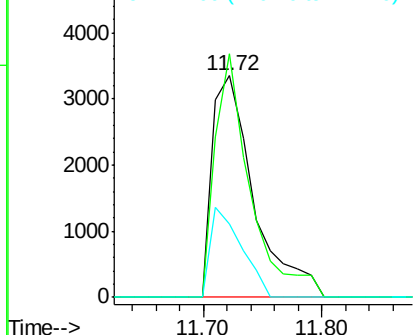
#41
 2,4,6-Tribromophenol
 Concen: 3.98 ng
 RT: 11.72 min Scan# 878
 Delta R.T. -0.03 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

Instrument :
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 SB-P3WC-16(4-11)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.3	0.0	0.0#
141	30.1	0.0	0.0#

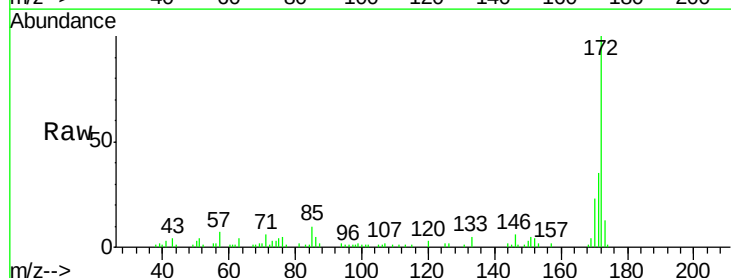


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

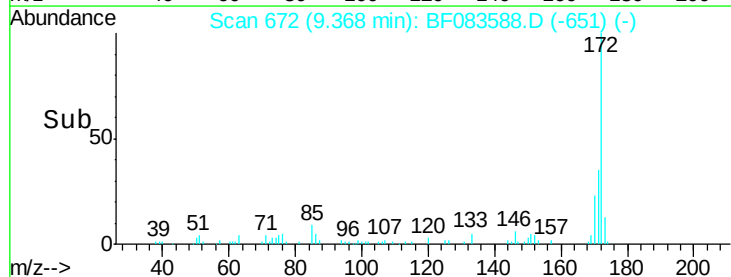
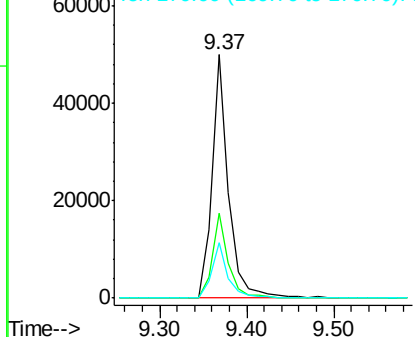


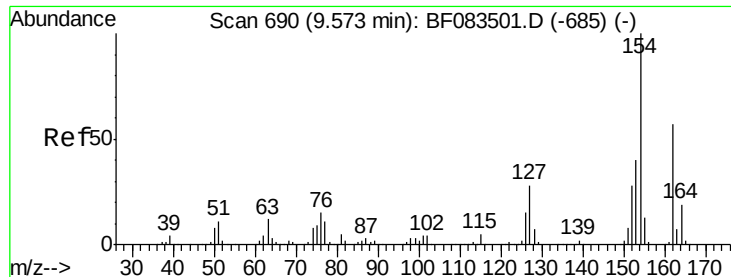
#44
 2-Fluorobiphenyl
 Concen: 4.06 ng
 RT: 9.37 min Scan# 672
 Delta R.T. -0.06 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.6	42.8
170	22.7	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





#45

1,1'-Biphenyl

Concen: 2.01 ng

RT: 9.52 min Scan# 685

Delta R.T. -0.06 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-16(4-11)DL

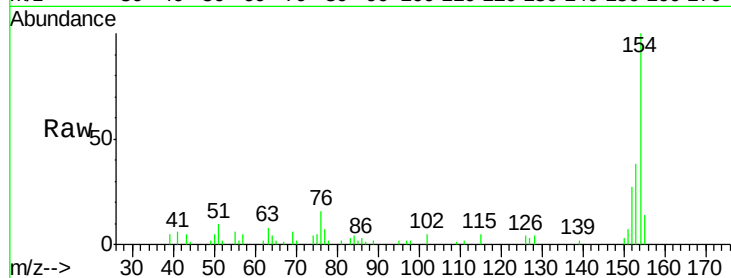
Tot Ion:154 Resp: 39706

Ion Ratio Lower Upper

154 100

153 38.3 20.2 60.2

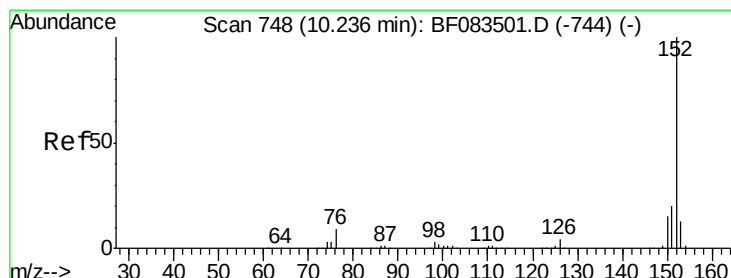
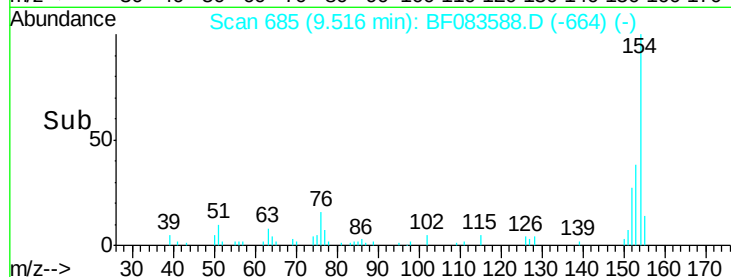
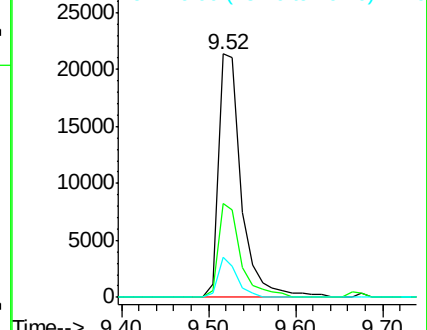
76 16.2 0.0 34.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 8.53 ng

RT: 10.18 min Scan# 743

Delta R.T. -0.06 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

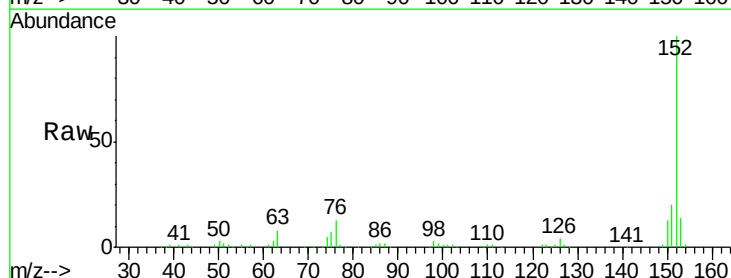
Tgt Ion:152 Resp: 207505

Ion Ratio Lower Upper

152 100

151 20.1 16.3 24.5

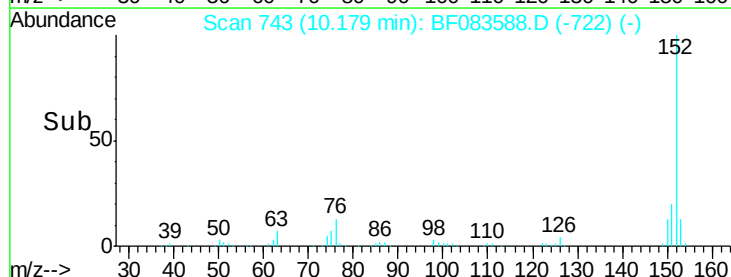
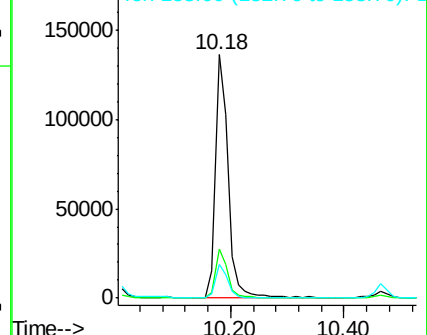
153 13.6 10.8 16.2

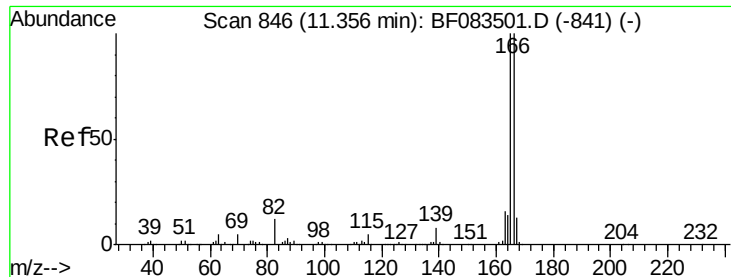


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

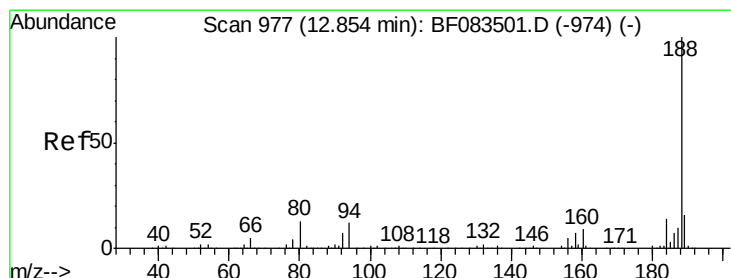
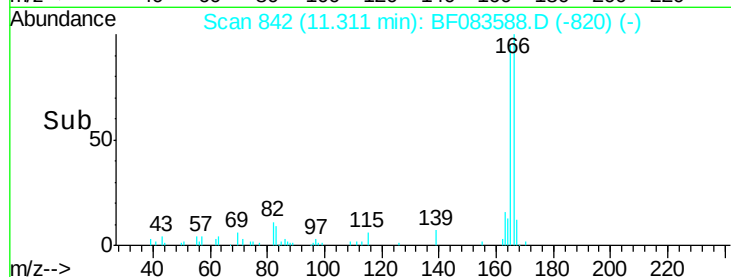
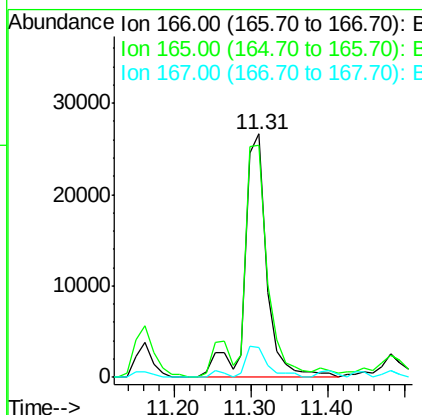
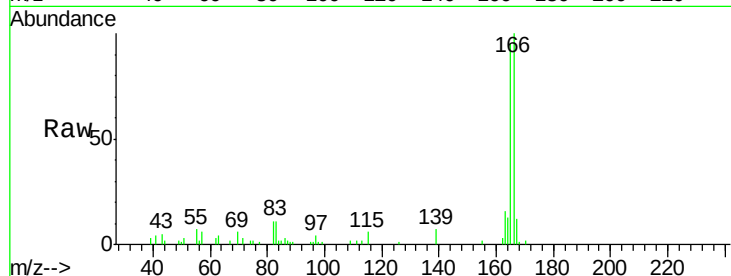




#57
Fluorene
 Concen: 3.12 ng
 RT: 11.31 min Scan# 842
 Delta R.T. -0.05 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

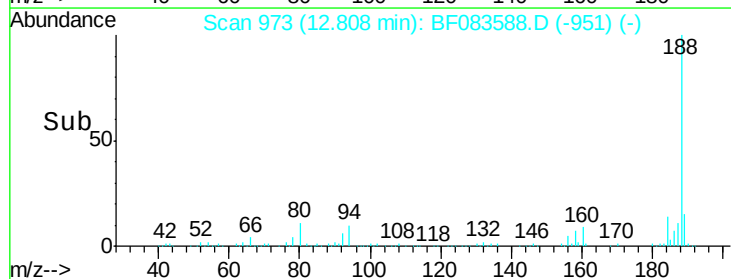
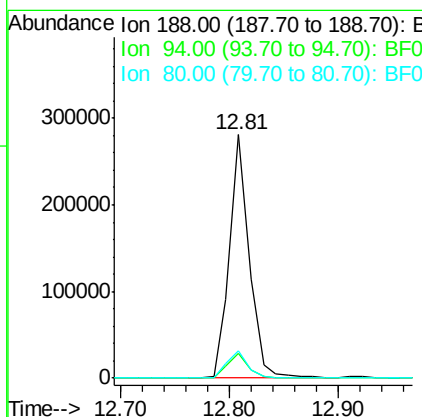
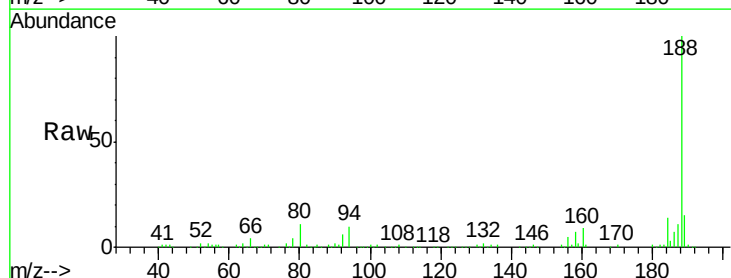
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-16(4-11)DL

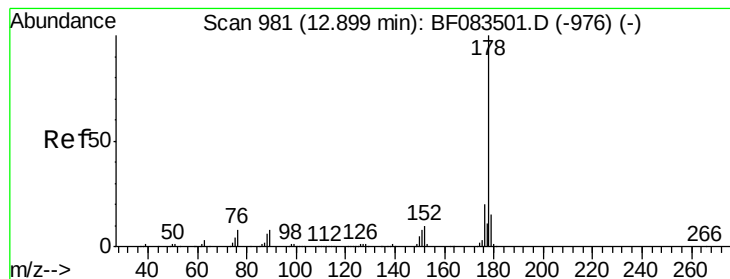
Tot Ion:166 Resp: 52669
 Ion Ratio Lower Upper
 166 100
 165 95.2 80.0 120.0
 167 12.4 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.81 min Scan# 973
 Delta R.T. -0.05 min
 Lab File: BF083588.D
 Acq: 8 Dec 2015 8:14

Tgt Ion:188 Resp: 354042
 Ion Ratio Lower Upper
 188 100
 94 10.2 9.4 14.2
 80 11.2 10.6 16.0





#70

Phenanthrene

Concen: 13.12 ng

RT: 12.84 min Scan# 976

Delta R.T. -0.06 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-16(4-11)DL

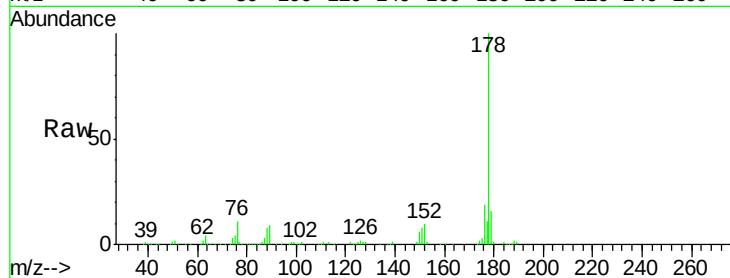
Tot Ion:178 Resp: 270366

Ion Ratio Lower Upper

178 100

176 18.5 15.7 23.5

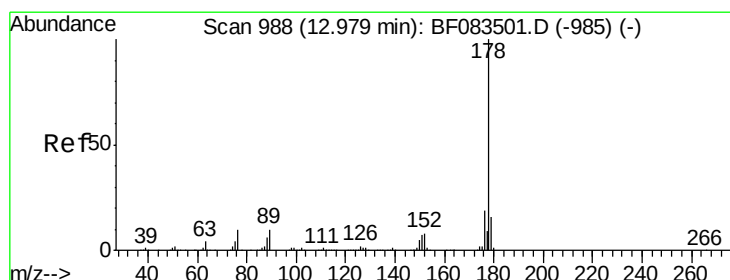
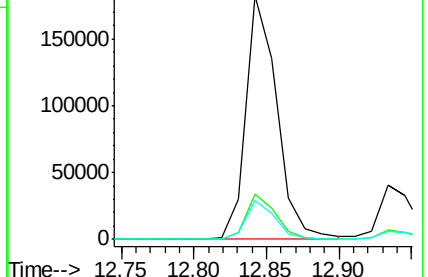
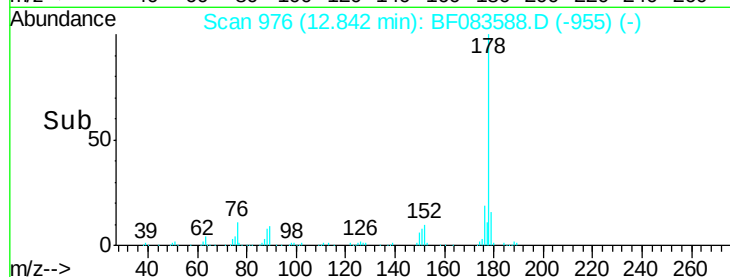
179 15.8 12.2 18.4



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: 3.28 ng

RT: 12.93 min Scan# 984

Delta R.T. -0.05 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

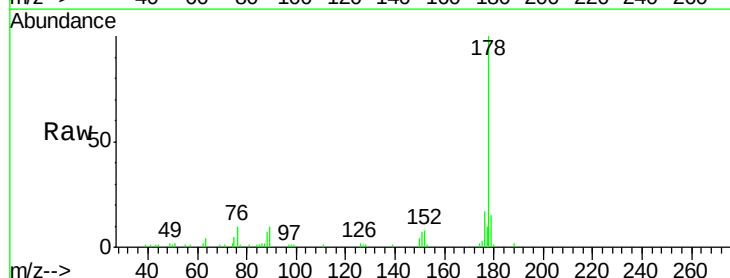
Tgt Ion:178 Resp: 68841

Ion Ratio Lower Upper

178 100

176 17.0 15.2 22.8

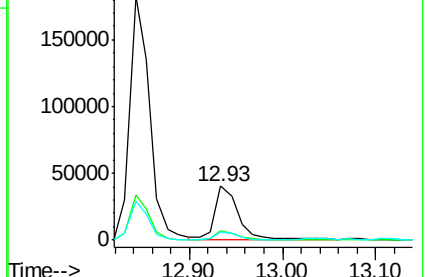
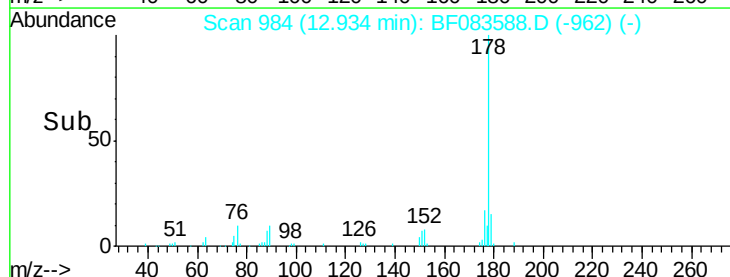
179 15.0 12.6 18.8

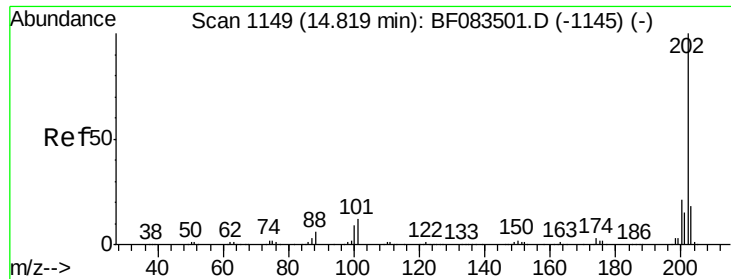


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

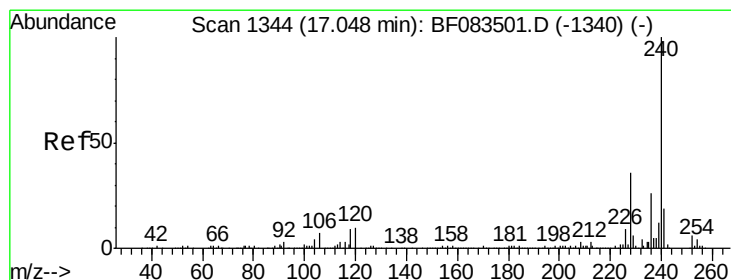
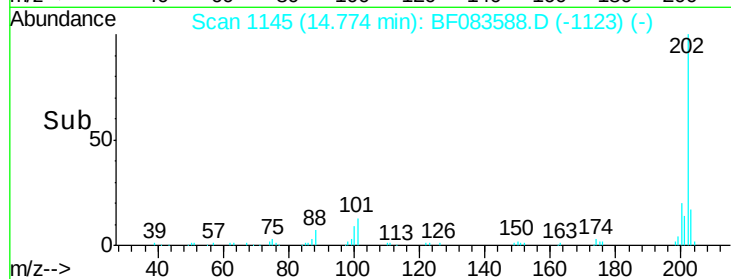
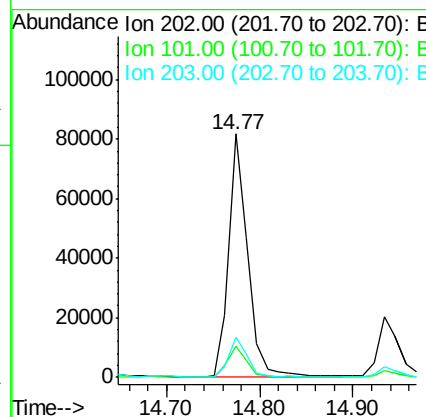
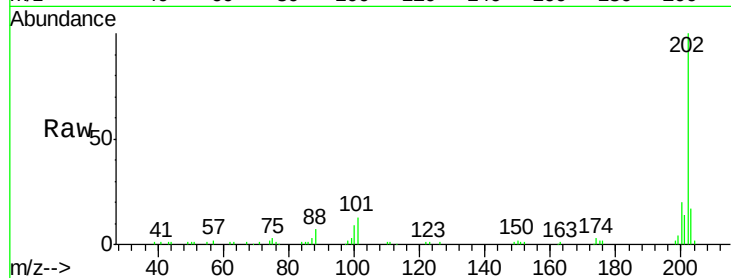




#74
Fluoranthene
Concen: 5.75 ng
RT: 14.77 min Scan# 1145
Delta R.T. -0.05 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

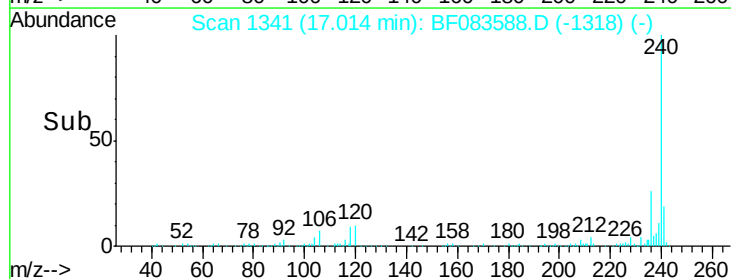
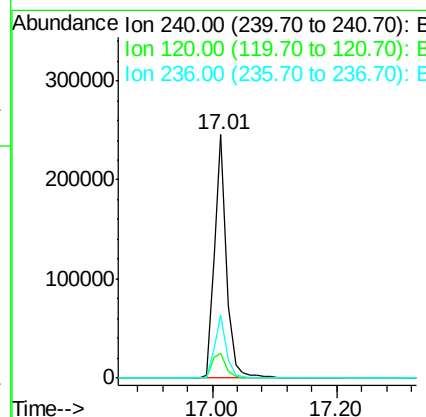
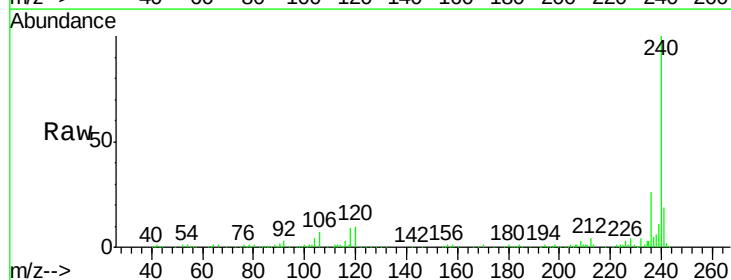
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)DL

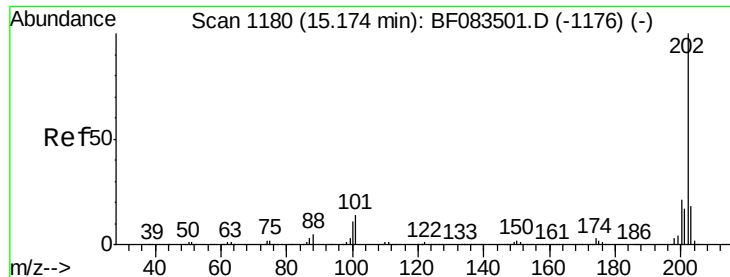
Tot Ion: 202 Resp: 117472
Ion Ratio Lower Upper
202 100
101 12.6 0.0 31.5
203 16.6 0.0 37.6



#75
Chrysene-d12
Concen: 20.00 ng
RT: 17.01 min Scan# 1341
Delta R.T. -0.03 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

Tgt Ion: 240 Resp: 325566
Ion Ratio Lower Upper
240 100
120 10.1 8.1 12.1
236 25.9 20.8 31.2

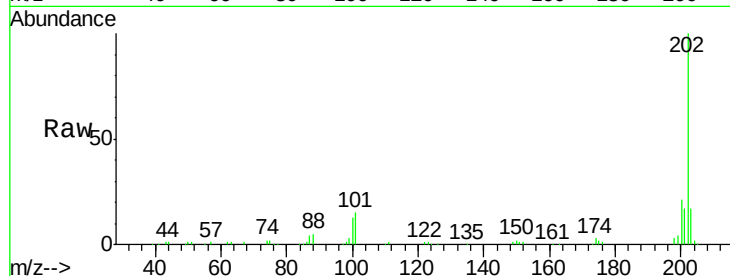




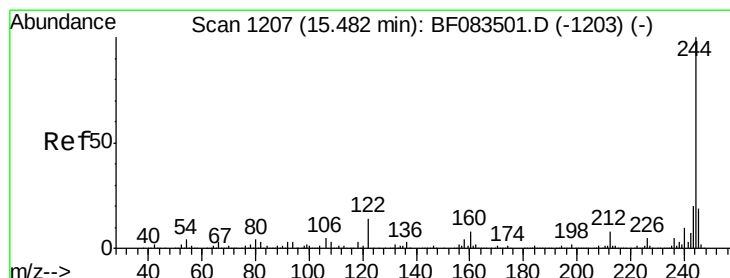
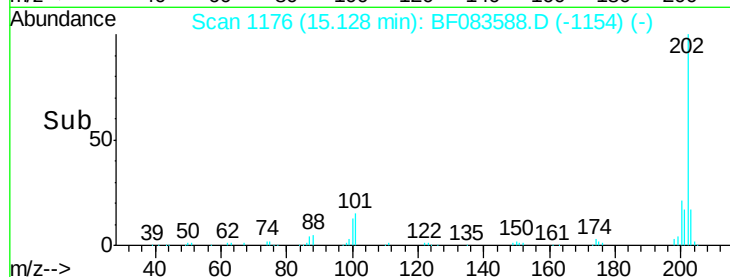
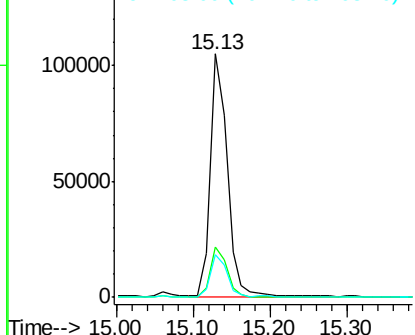
#77
Pvrene
Concen: 6.51 ng
RT: 15.13 min Scan# 1176
Delta R.T. -0.05 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)DL

Tot Ion:202 Resp: 158662
Ion Ratio Lower Upper
202 100
200 20.6 16.7 25.1
203 17.3 14.3 21.5

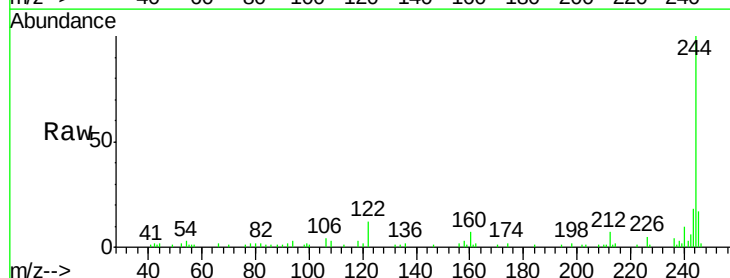


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

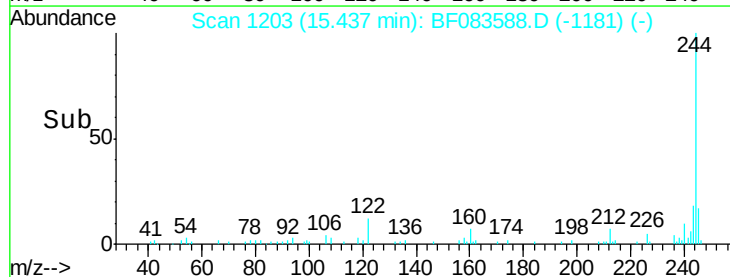
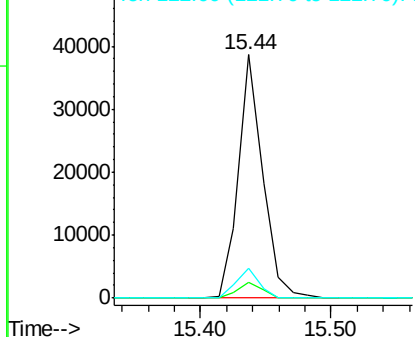


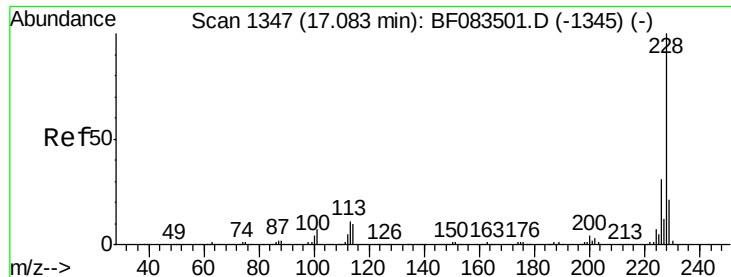
#78
Terphenyl-d14
Concen: 3.42 ng
RT: 15.44 min Scan# 1203
Delta R.T. -0.05 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

Tgt Ion:244 Resp: 50052
Ion Ratio Lower Upper
244 100
212 6.6 6.1 9.1
122 12.0 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





#82

Chrysene

Concen: 2.00 ng

RT: 17.05 min Scan# 1344

Delta R.T. -0.03 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-16(4-11)DL

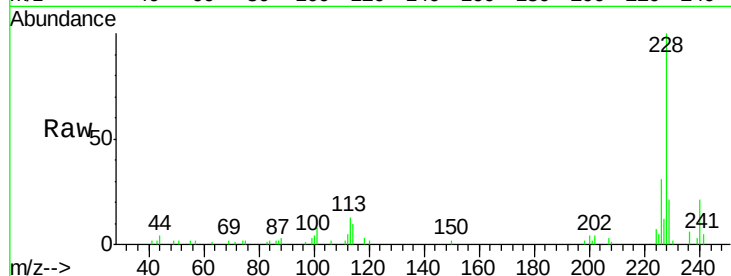
Tot Ion:228 Resp: 37960

Ion Ratio Lower Upper

228 100

226 30.9 24.7 37.1

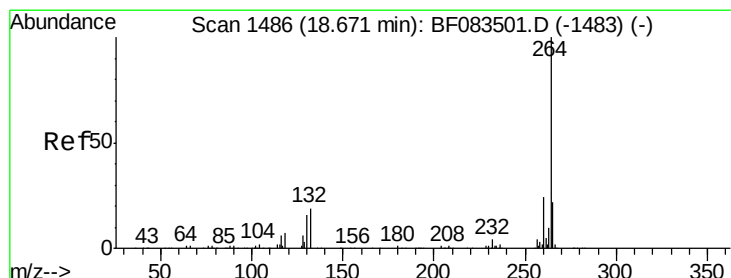
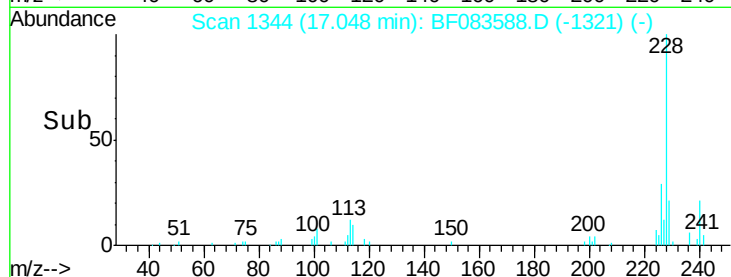
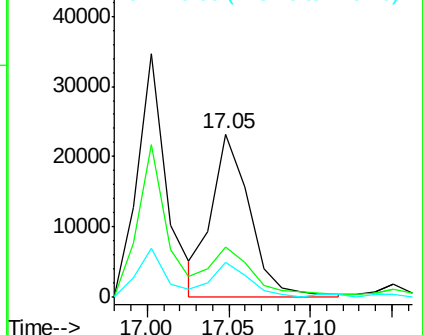
229 21.0 16.3 24.5



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 18.65 min Scan# 1484

Delta R.T. -0.02 min

Lab File: BF083588.D

Acq: 8 Dec 2015 8:14

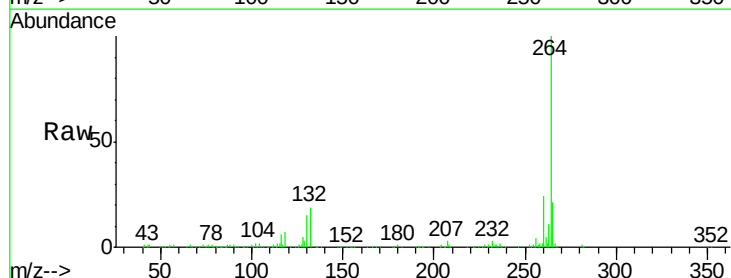
Tgt Ion:264 Resp: 237109

Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.0

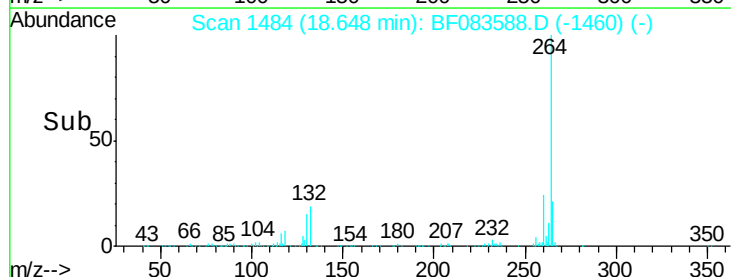
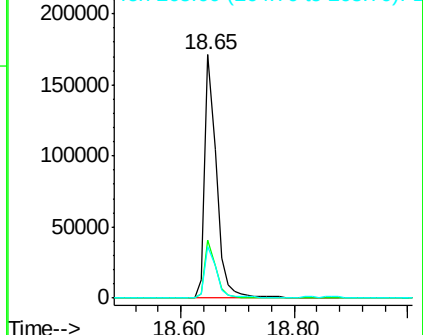
265 21.1 17.8 26.6

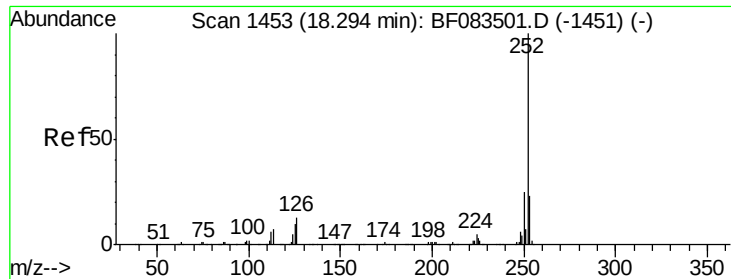


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

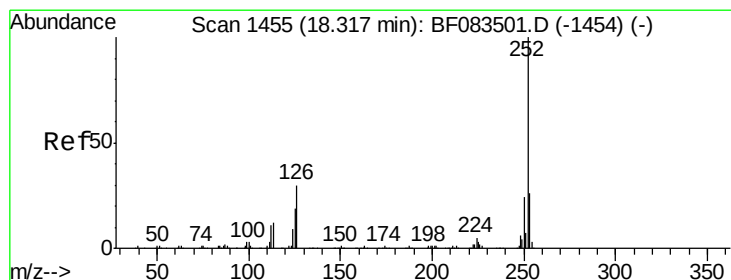
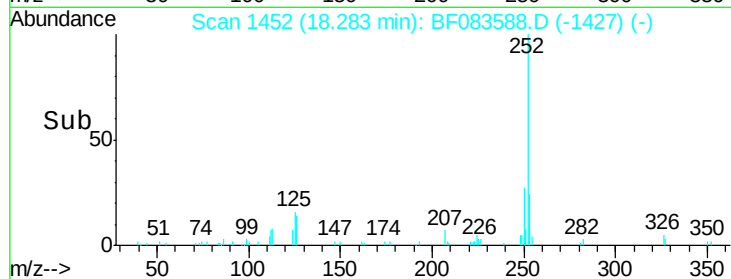
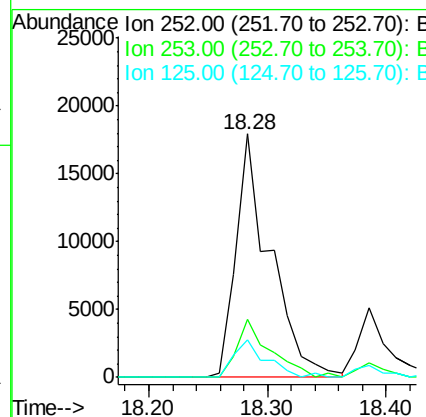
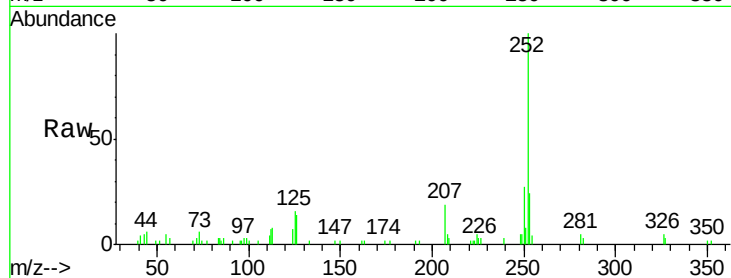




#87
Benzo(b)fluoranthene
Concen: 2.70 ng
RT: 18.28 min Scan# 1452
Delta R.T. -0.01 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

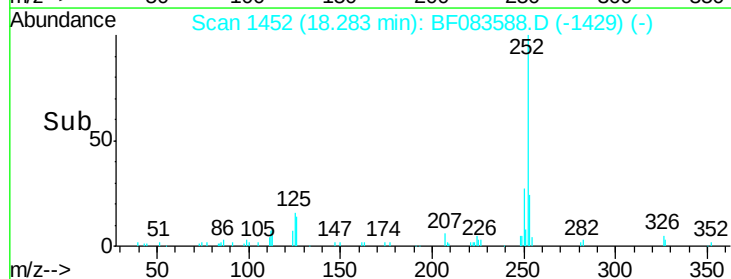
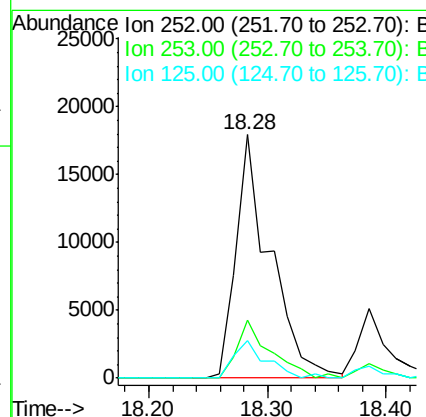
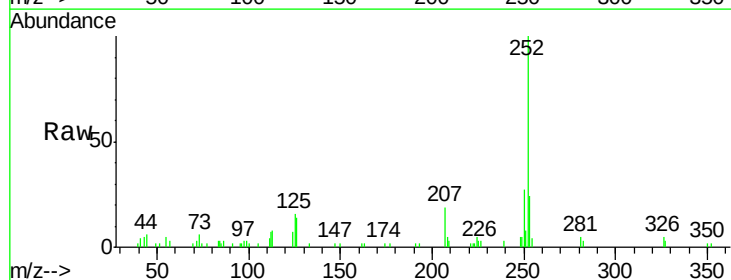
Instrument :
BNA_F
ClientSampleId :
SB-P3WC-16(4-11)DL

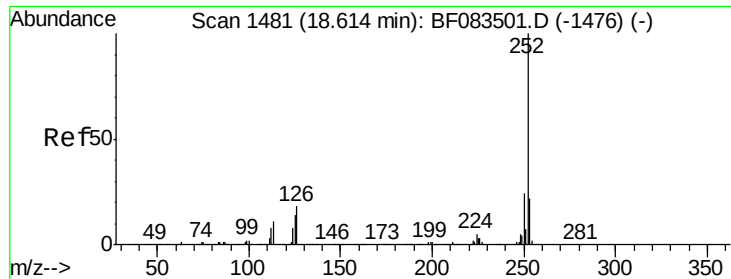
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.4
125	15.6	8.2	12.4



#88
Benzo(k)fluoranthene
Concen: 2.64 ng
RT: 18.28 min Scan# 1452
Delta R.T. -0.03 min
Lab File: BF083588.D
Acq: 8 Dec 2015 8:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.6	27.8
125	15.6	11.5	17.3





#89

Benzo(a)pyrene

Concen: 2.43 ng

RT: 18.60 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF083588.D

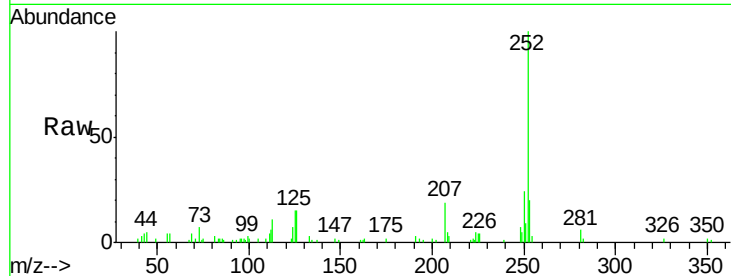
Acq: 8 Dec 2015 8:14

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-16(4-11)DL



Tot Ion:	252	Resp:	31438
Ion Ratio	Lower	Upper	
252	100		
253	20.3	17.5	26.3
125	15.0	11.0	16.6

