

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110415\
 Data File : BF082690.D
 Acq On : 4 Nov 2015 8:13
 Operator : UM/IZ
 Sample : G4241-02
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-117(3)

Quant Time: Nov 04 13:02:56 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF103015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 03 12:27:47 2015
 Response via : Initial Calibration

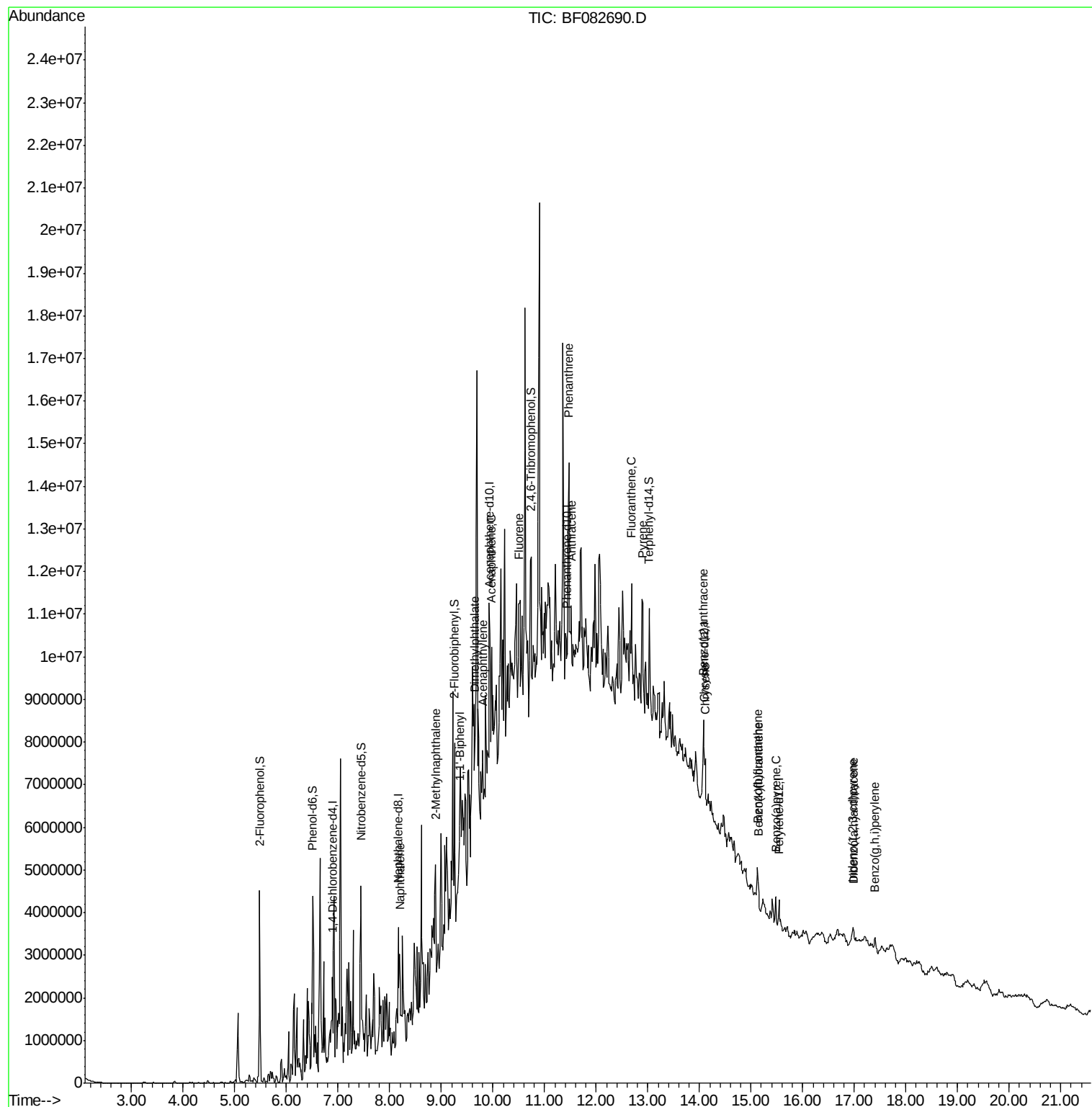
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	158605	20.00	ng	0.01
21) Naphthalene-d8	8.17	136	526520	20.00	ng	0.00
38) Acenaphthene-d10	9.94	164	222668	20.00	ng	0.01
63) Phenanthrene-d10	11.44	188	338052	20.00	ng	0.02
75) Chrysene-d12	14.09	240	387086	20.00	ng	0.03
86) Perylene-d12	15.54	264	323870	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	1267535	120.37	ng	0.01
7) Phenol-d6	6.51	99	1834177	131.11	ng	0.00
23) Nitrobenzene-d5	7.45	82	1250539	96.99	ng	0.00
41) 2,4,6-Tribromophenol	10.74	330	284982	116.95	ng	0.02
44) 2-Fluorobiphenyl	9.25	172	1245800	79.44	ng	0.00
78) Terphenyl-d14	13.03	244	991086	56.03	ng	0.02
Target Compounds						Qvalue
31) Naphthalene	8.19	128	820411	28.80	ng	99
37) 2-Methylnaphthalene	8.89	142	419226	22.70	ng	100
45) 1,1'-Biphenyl	9.36	154	105243	5.60	ng	94
48) Acenaphthylene	9.80	152	372416	15.85	ng	# 86
49) Dimethylphthalate	9.65	163	318759	17.53	ng	# 92
51) Acenaphthene	9.97	154	555561	37.25	ng	96
57) Fluorene	10.50	166	670199	41.06	ng	# 90
70) Phenanthrene	11.47	178	2228511	116.88	ng	97
71) Anthracene	11.52	178	756530m	39.41	ng	
74) Fluoranthene	12.68	202	972047	49.87	ng	92
77) Pyrene	12.90	202	1842741	64.29	ng	96
80) Benzo(a)anthracene	14.08	228	608002m	24.73	ng	
82) Chrysene	14.11	228	490903m	22.03	ng	
85) Indeno(1,2,3-cd)pyrene	16.97	276	192775	10.48	ng	98
87) Benzo(b)fluoranthene	15.13	252	471658m	21.12	ng	
88) Benzo(k)fluoranthene	15.14	252	107711m	6.33	ng	
89) Benzo(a)pyrene	15.48	252	397701	22.61	ng	# 86
90) Dibenzo(a,h)anthracene	16.98	278	36655	2.23	ng	# 1
91) Benzo(a,h,i)perylene	17.40	276	211544	13.30	ng	# 88

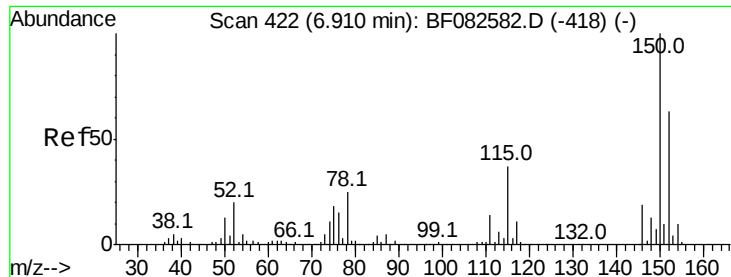
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. 0.01 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

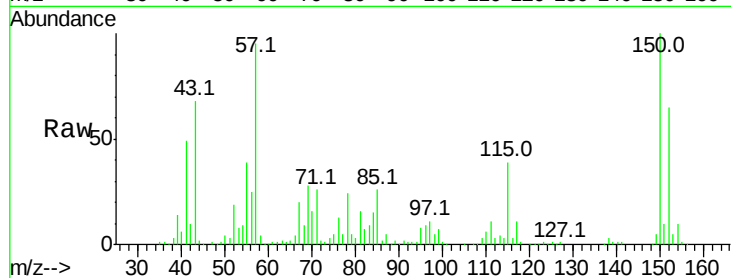
Tot Ion:152 Resp: 158605

Ion Ratio Lower Upper

152 100

150 154.8 127.0 190.4

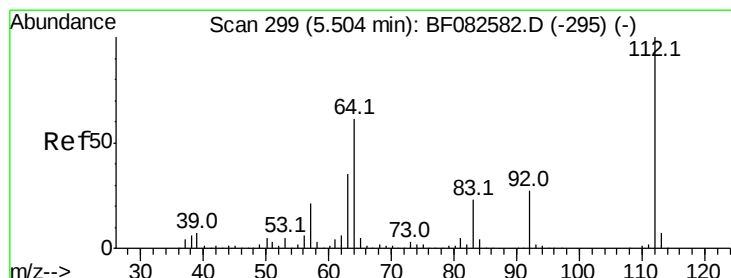
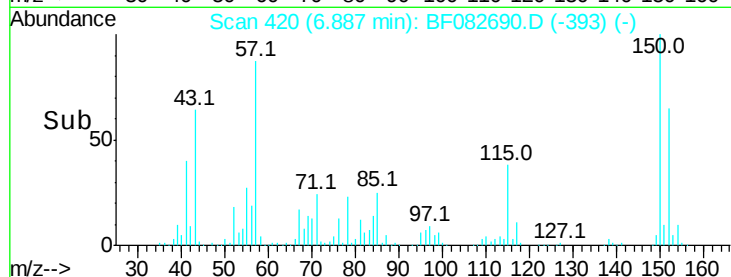
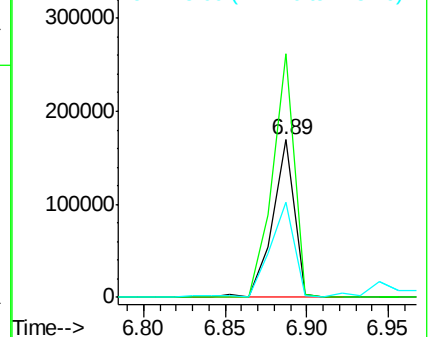
115 60.3 47.0 70.6



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: 120.37 ng

RT: 5.48 min Scan# 297

Delta R.T. 0.01 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

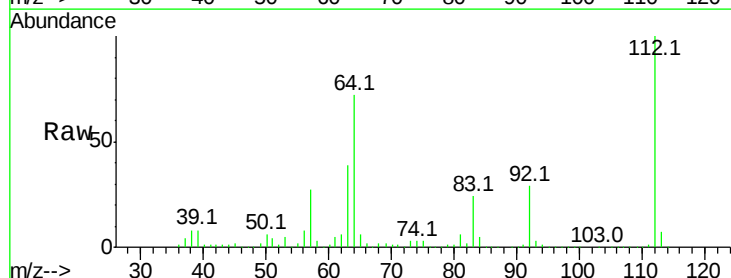
Tgt Ion:112 Resp: 1267535

Ion Ratio Lower Upper

112 100

64 71.9 48.9 73.3

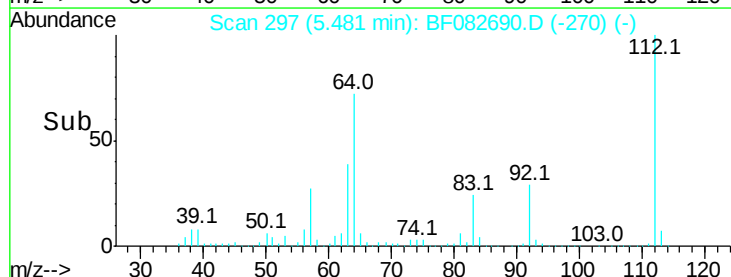
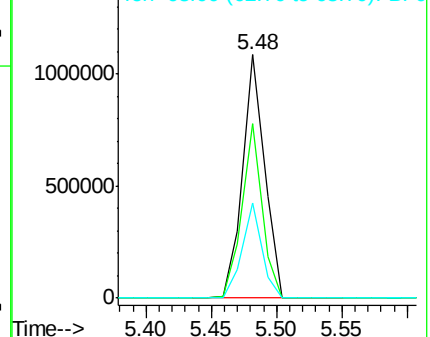
63 39.0 28.1 42.1

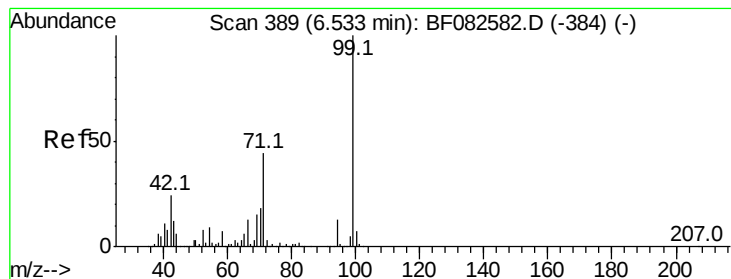


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 131.11 ng

RT: 6.51 min Scan# 387

Delta R.T. 0.00 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

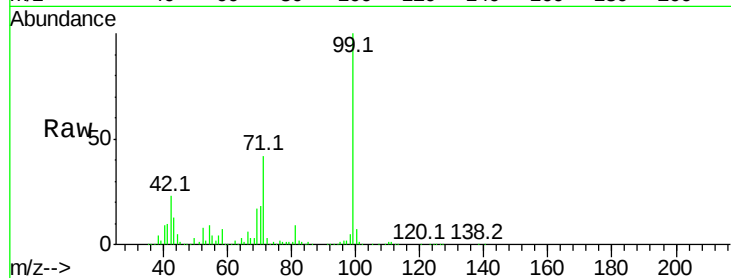
BNA_F

ClientSampleId :

TP-117(3)

Tot Ion: 99 Resp: 1834177

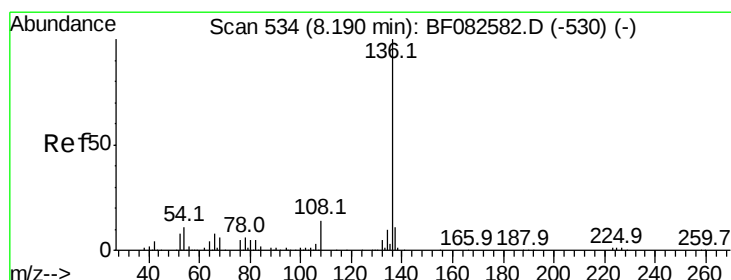
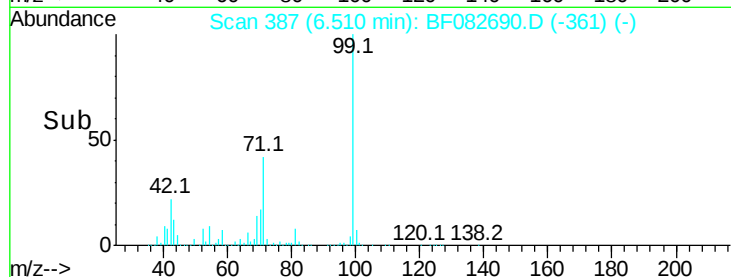
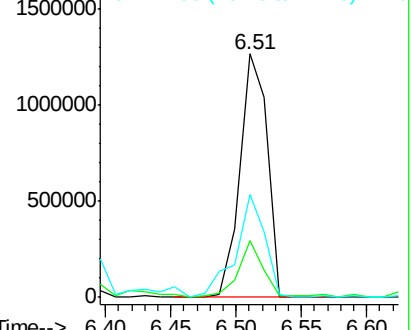
Ion	Ratio	Lower	Upper
99	100		
42	23.0	19.2	28.8
71	42.3	35.0	52.4



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: 8.17 min Scan# 532

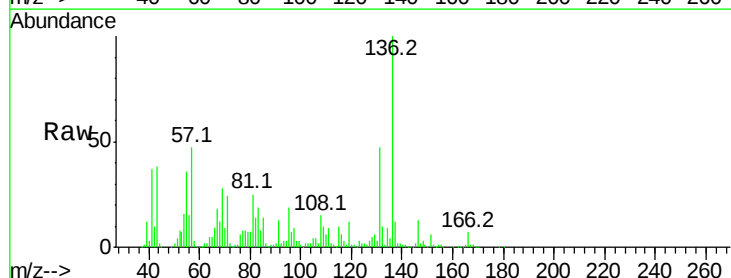
Delta R.T. 0.00 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Tgt Ion: 136 Resp: 526520

Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.1	13.7
54	15.8	9.1	13.7#
68	12.3	4.8	7.2#

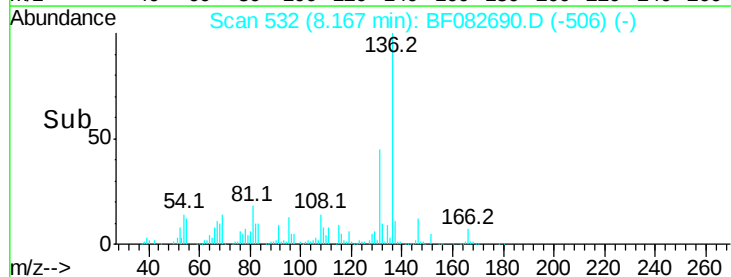
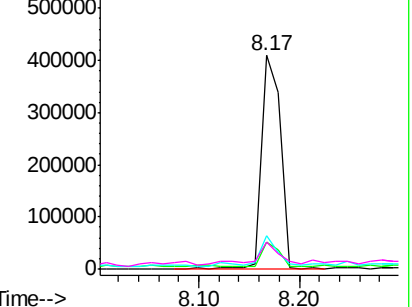


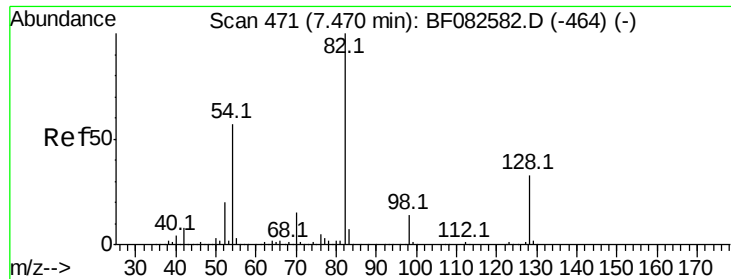
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

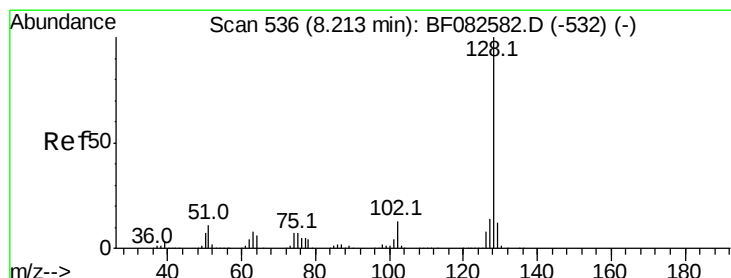
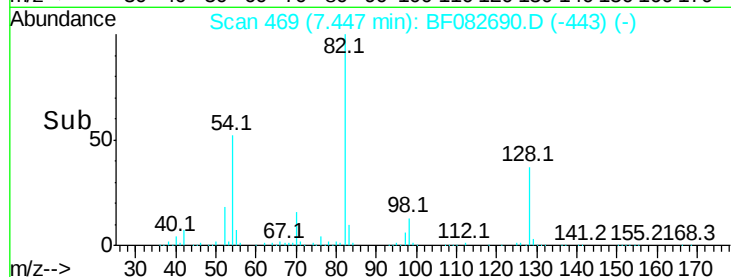
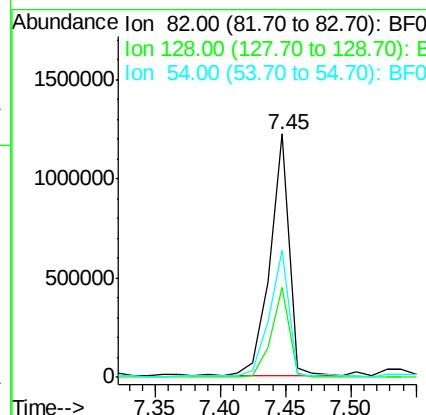
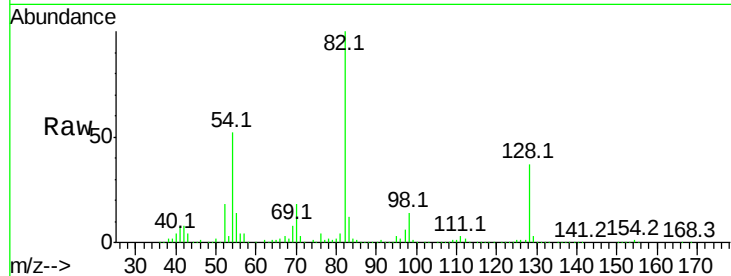




#23
Nitrobenzene-d5
Concen: 96.99 ng
RT: 7.45 min Scan# 469
Delta R.T. 0.00 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

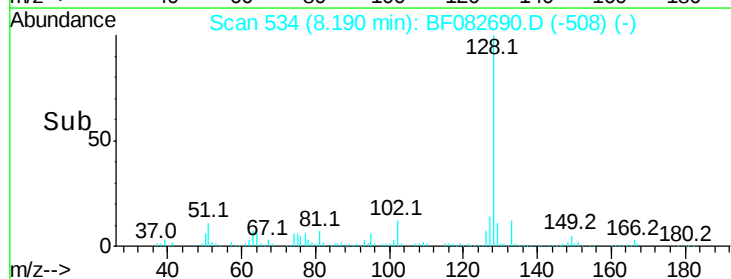
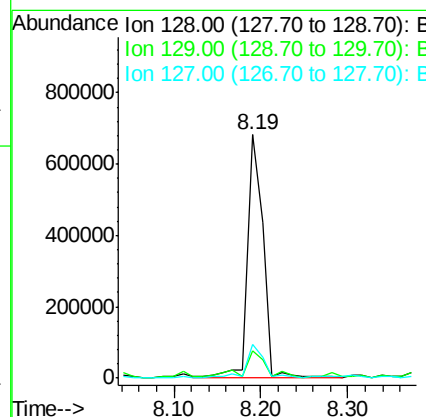
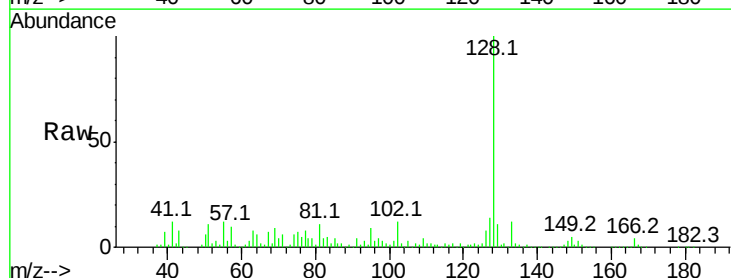
Instrument :
BNA_F
ClientSampleId :
TP-117(3)

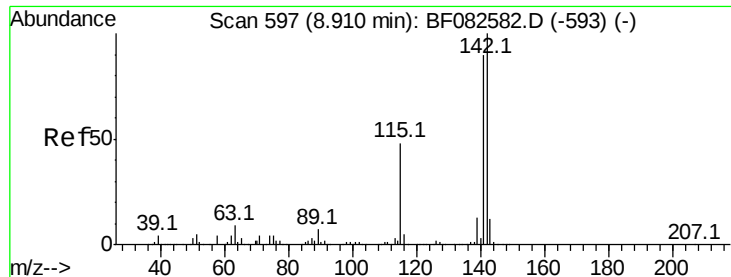
Tot Ion: 82 Resp: 1250539
Ion Ratio Lower Upper
82 100
128 36.9 26.8 40.2
54 52.2 45.7 68.5



#31
Naphthalene
Concen: 28.80 ng
RT: 8.19 min Scan# 534
Delta R.T. 0.00 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

Tgt Ion: 128 Resp: 820411
Ion Ratio Lower Upper
128 100
129 11.3 9.5 14.3
127 14.0 11.4 17.0





#37

2-Methylnaphthalene

Concen: 22.70 ng

RT: 8.89 min Scan# 595

Delta R.T. 0.00 min

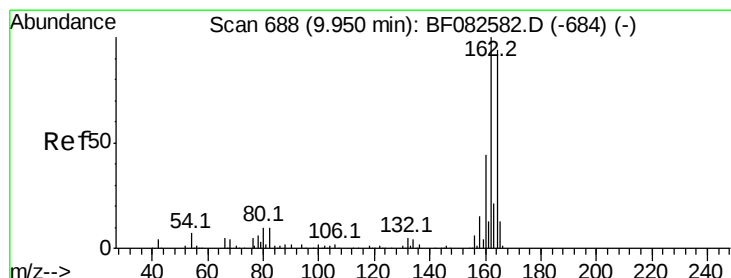
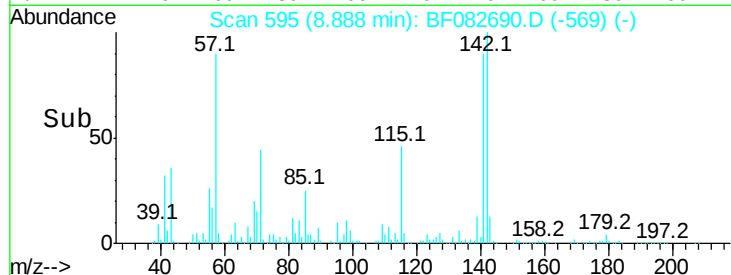
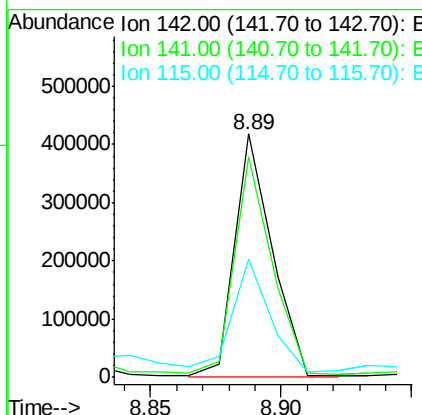
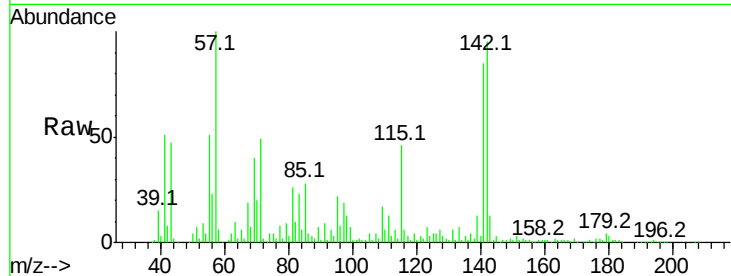
Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :
BNA_F
ClientSampleId :
TP-117(3)

Tot Ion:142 Resp: 419226

Ion	Ratio	Lower	Upper
142	100		
141	90.4	72.3	108.5
115	48.5	38.1	57.1



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

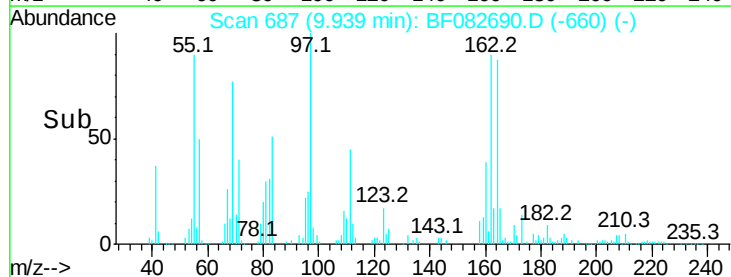
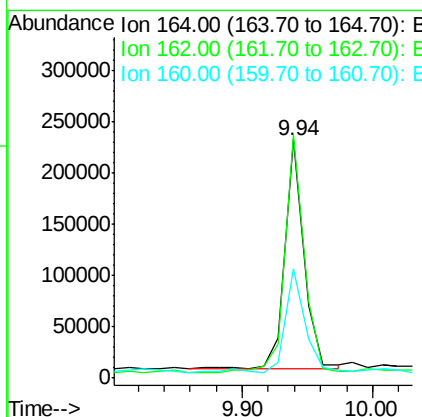
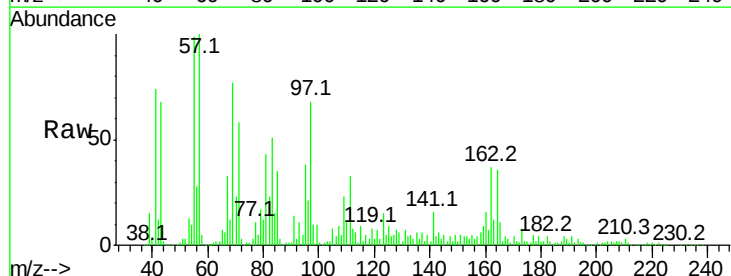
Delta R.T. 0.01 min

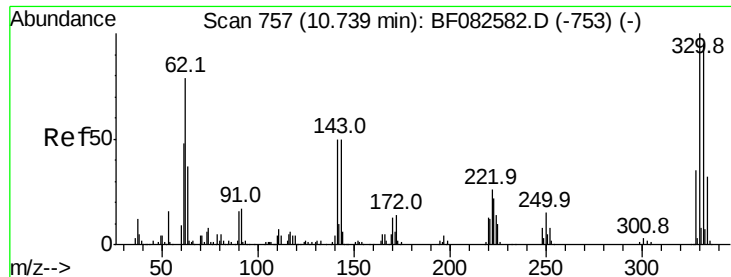
Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Tgt Ion:164 Resp: 222668

Ion	Ratio	Lower	Upper
164	100		
162	102.2	84.9	127.3
160	46.0	37.5	56.3

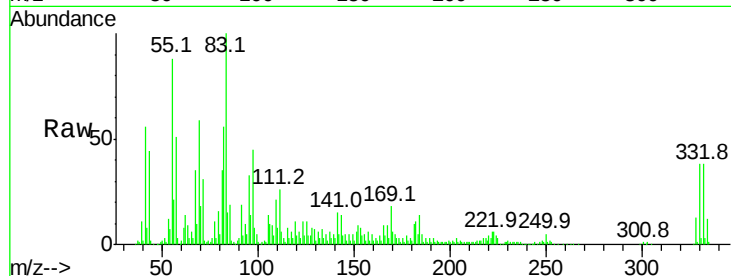




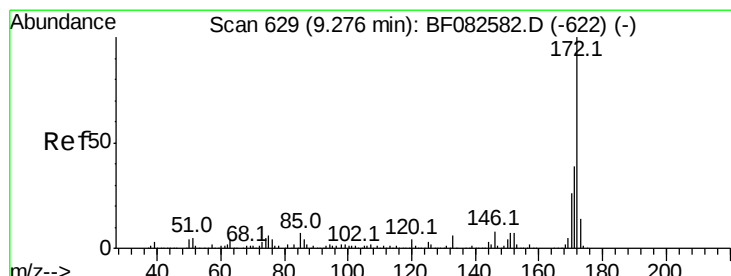
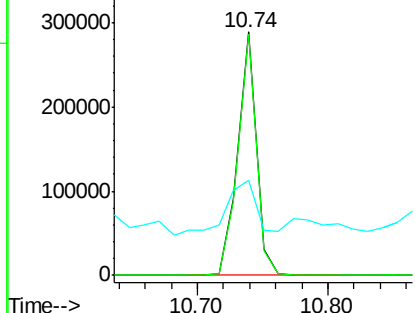
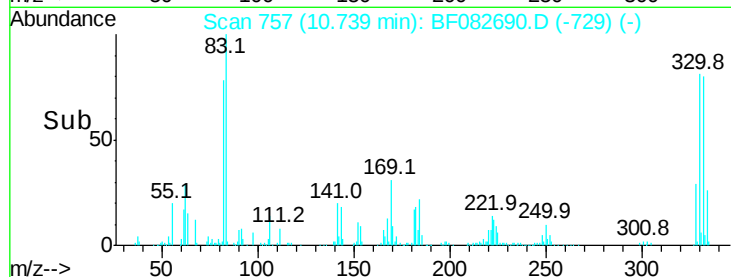
#41
 2,4,6-Tribromophenol
 Concen: 116.95 ng
 RT: 10.74 min Scan# 757
 Delta R.T. 0.02 min
 Lab File: BF082690.D
 Acq: 4 Nov 2015 8:13

Instrument :
 BNA_F
 ClientSampleId :
 TP-117(3)

Tot Ion:330 Resp: 284982
 Ion Ratio Lower Upper
 330 100
 332 98.2 76.6 114.8
 141 29.9 41.2 61.8#

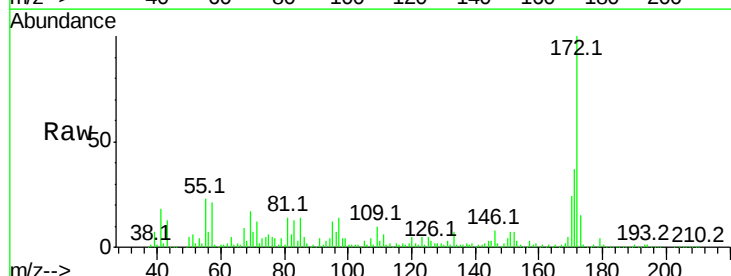


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

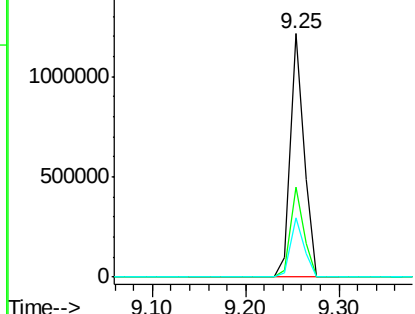
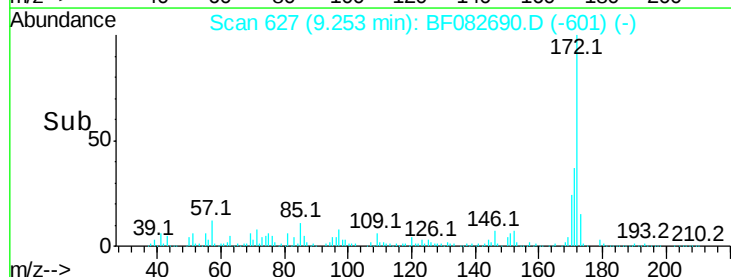


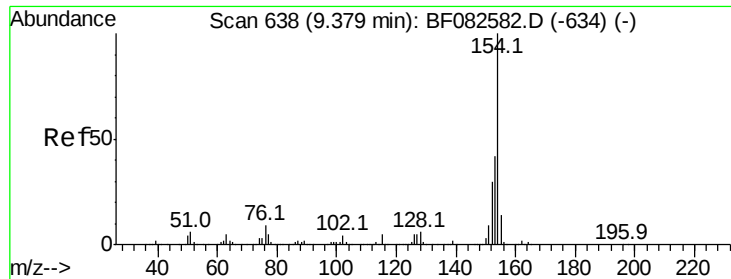
#44
 2-Fluorobiphenyl
 Concen: 79.44 ng
 RT: 9.25 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: BF082690.D
 Acq: 4 Nov 2015 8:13

Tgt Ion:172 Resp: 1245800
 Ion Ratio Lower Upper
 172 100
 171 37.2 30.8 46.2
 170 24.3 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





#45

1,1'-Biphenyl

Concen: 5.60 ng

RT: 9.36 min Scan# 636

Delta R.T. 0.01 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

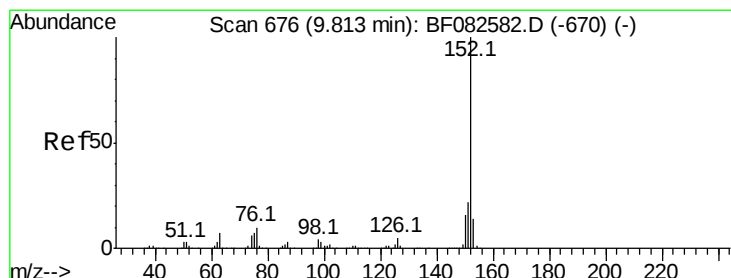
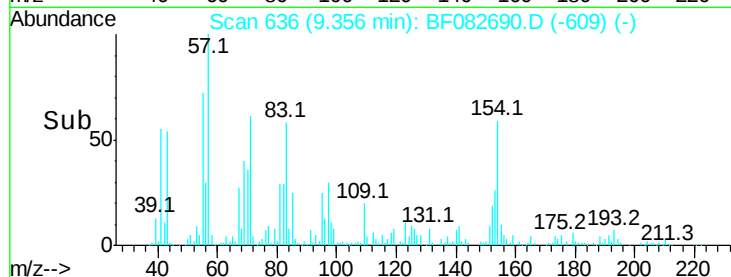
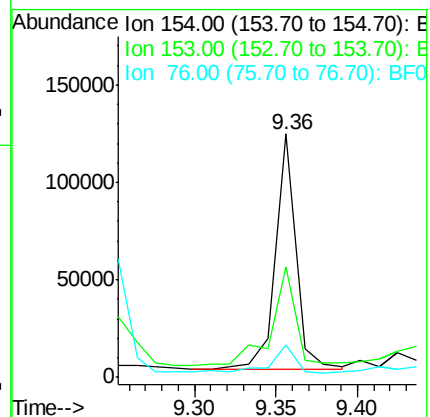
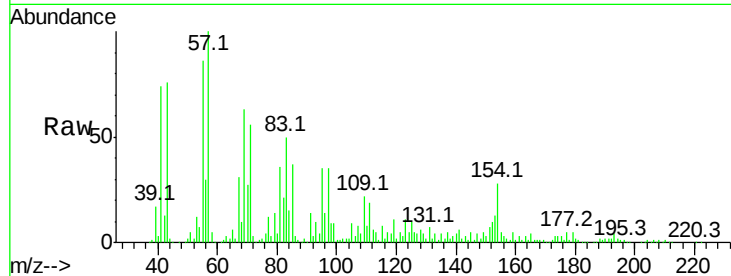
Tot Ion:154 Resp: 105243

Ion Ratio Lower Upper

154 100

153 45.2 22.0 62.0

76 13.1 0.0 29.0



#48

Acenaphthylene

Concen: 15.85 ng

RT: 9.80 min Scan# 675

Delta R.T. 0.01 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

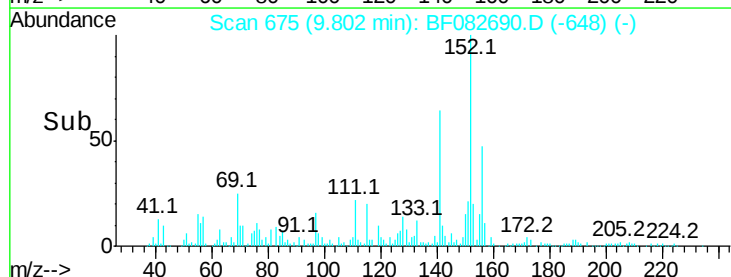
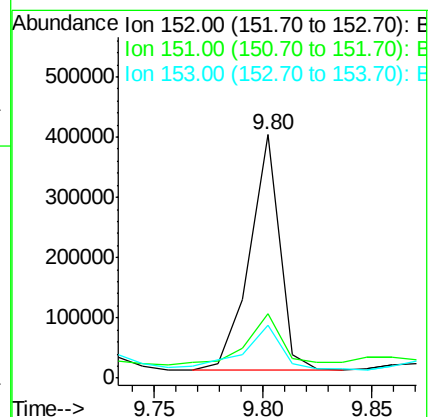
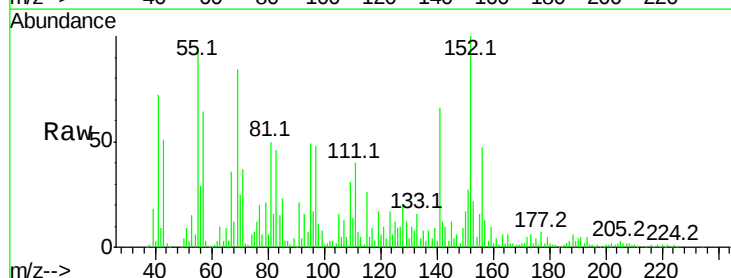
Tgt Ion:152 Resp: 372416

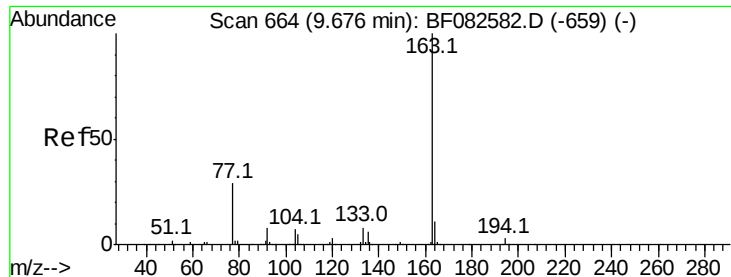
Ion Ratio Lower Upper

152 100

151 26.6 17.3 25.9#

153 21.7 11.3 16.9#

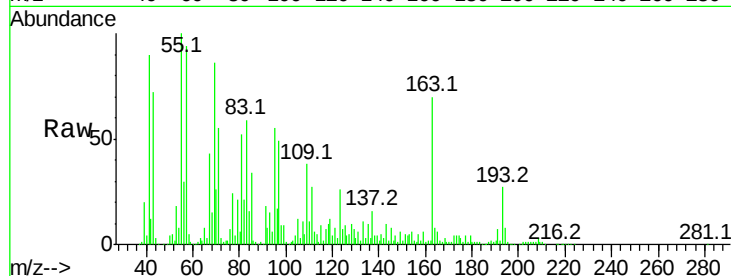




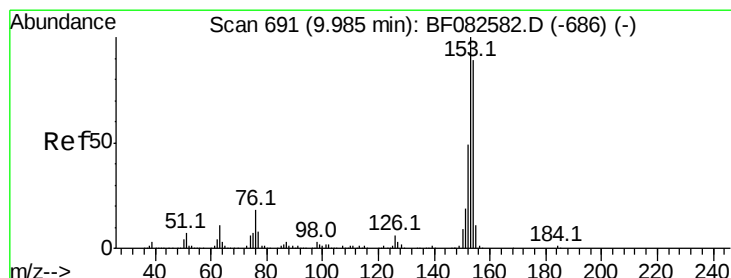
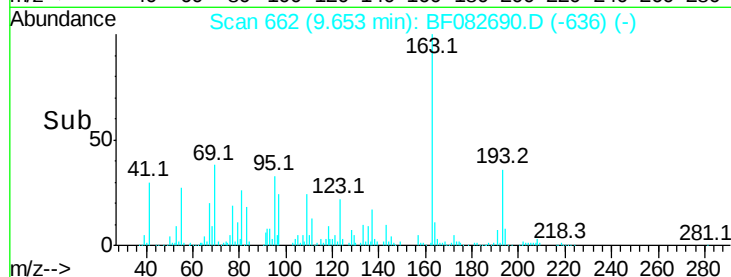
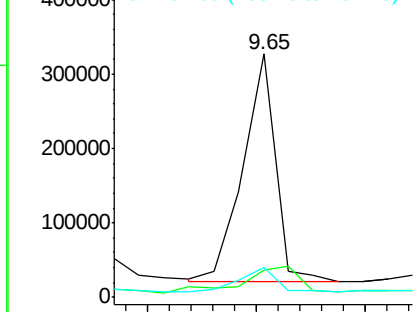
#49
Dimethylphthalate
Concen: 17.53 ng
RT: 9.65 min Scan# 662
Delta R.T. 0.00 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

Instrument :
BNA_F
ClientSampleId :
TP-117(3)

Tot Ion:163 Resp: 318759
Ion Ratio Lower Upper
163 100
194 11.0 2.6 4.0#
164 12.0 8.7 13.1

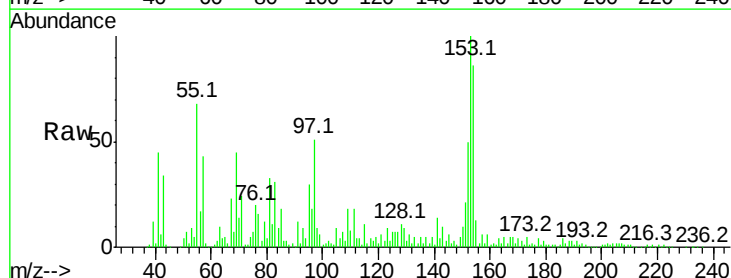


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

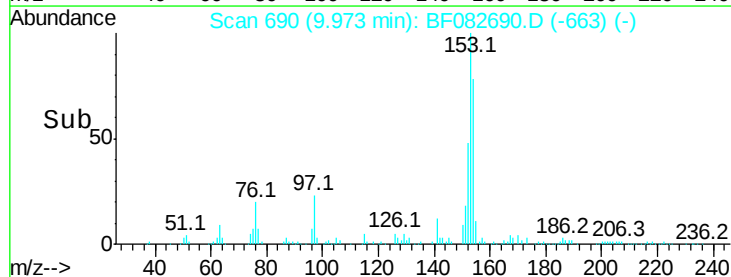
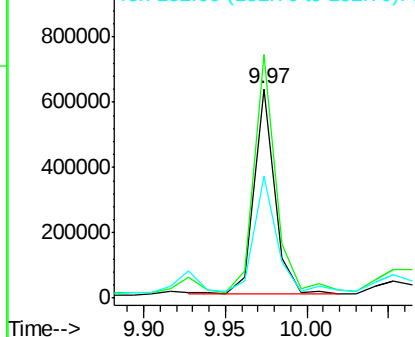


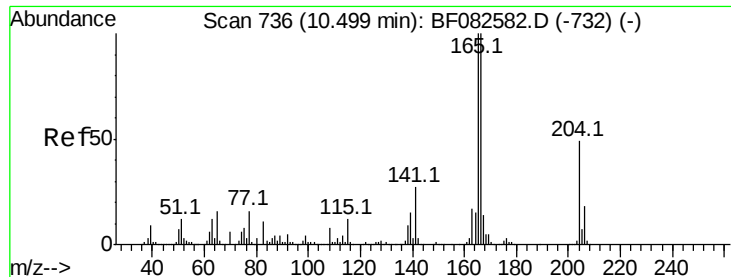
#51
Acenaphthene
Concen: 37.25 ng
RT: 9.97 min Scan# 690
Delta R.T. 0.01 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

Tgt Ion:154 Resp: 555561
Ion Ratio Lower Upper
154 100
153 116.1 90.1 135.1
152 58.5 44.3 66.5



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

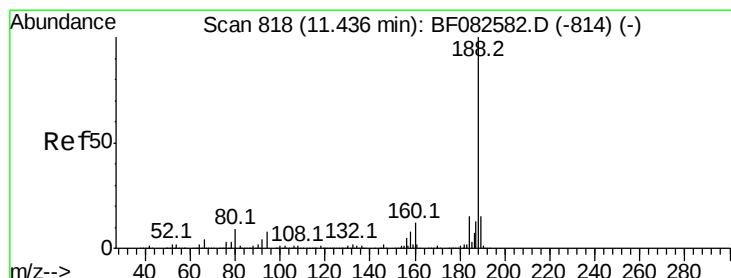
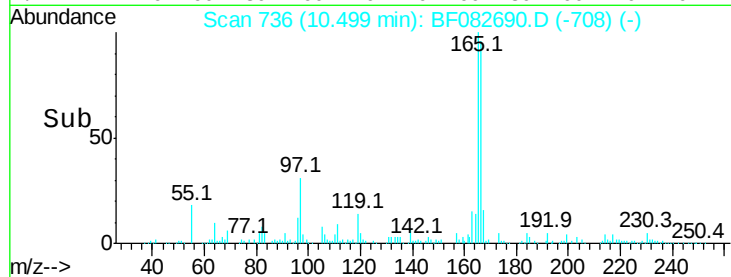
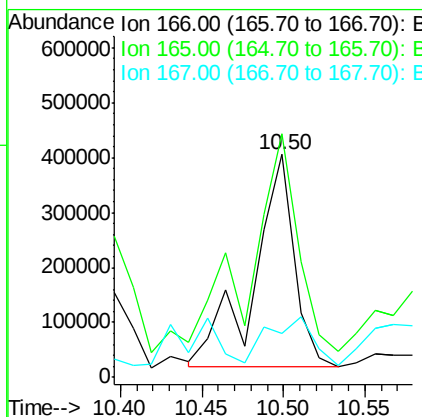
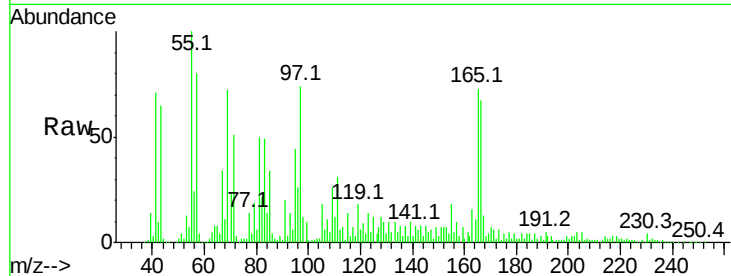




#57
Fluorene
 Concen: 41.06 ng
 RT: 10.50 min Scan# 736
 Delta R.T. 0.02 min
 Lab File: BF082690.D
 Acq: 4 Nov 2015 8:13

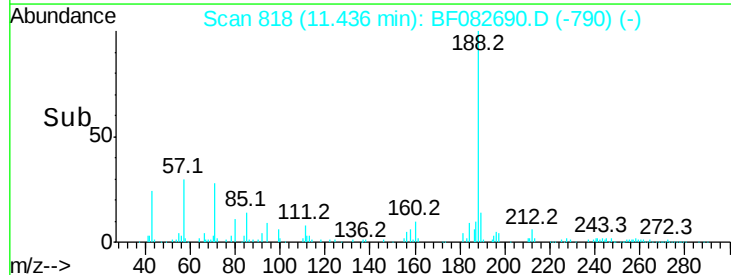
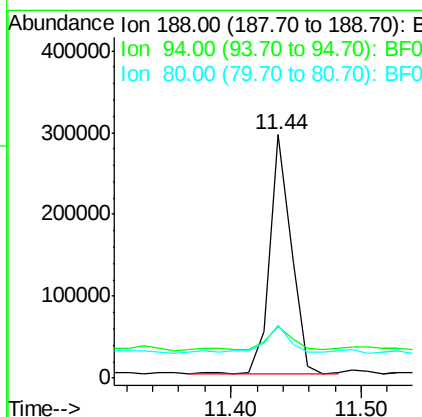
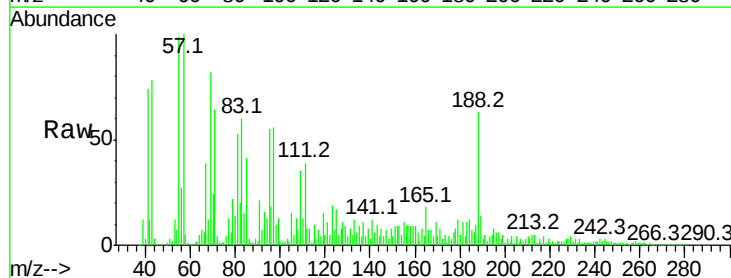
Instrument :
 BNA_F
 ClientSampleId :
 TP-117(3)

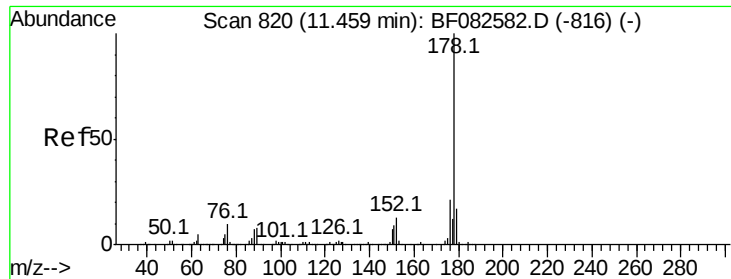
Tot Ion:166 Resp: 670199
 Ion Ratio Lower Upper
 166 100
 165 109.2 80.2 120.4
 167 20.0 11.2 16.8#



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.44 min Scan# 818
 Delta R.T. 0.02 min
 Lab File: BF082690.D
 Acq: 4 Nov 2015 8:13

Tgt Ion:188 Resp: 338052
 Ion Ratio Lower Upper
 188 100
 94 21.1 6.1 9.1#
 80 21.8 7.0 10.6#

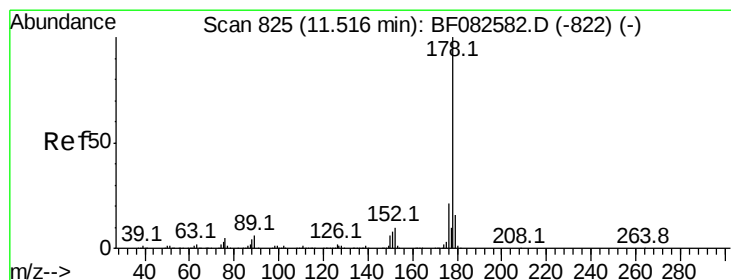
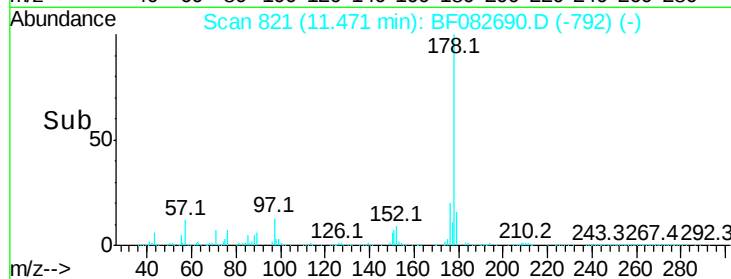
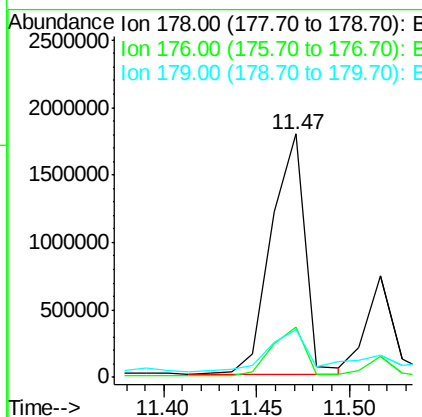
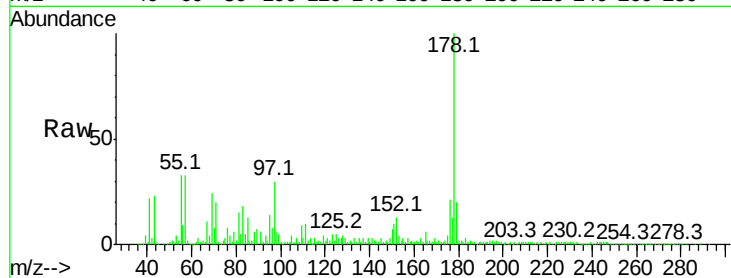




#70
Phenanthrene
Concen: 116.88 ng
RT: 11.47 min Scan# 821
Delta R.T. 0.03 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

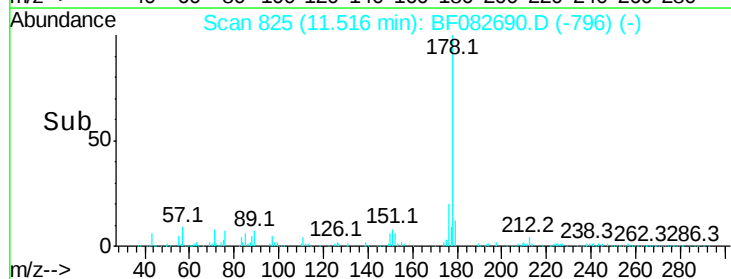
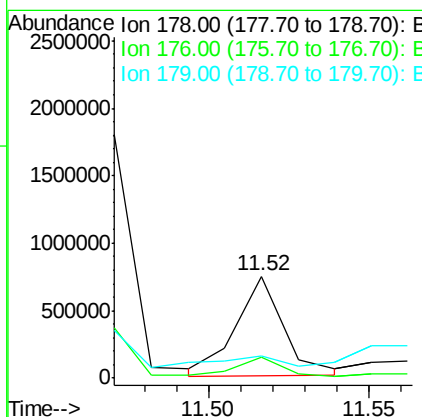
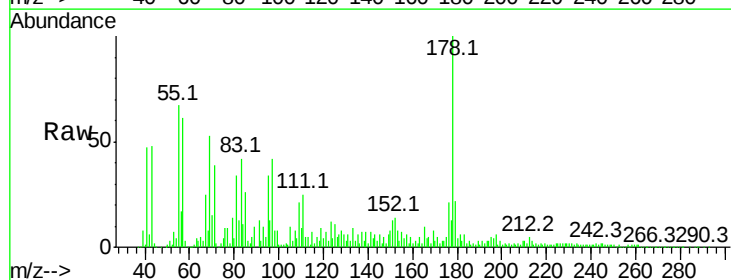
Instrument :
BNA_F
ClientSampleId :
TP-117(3)

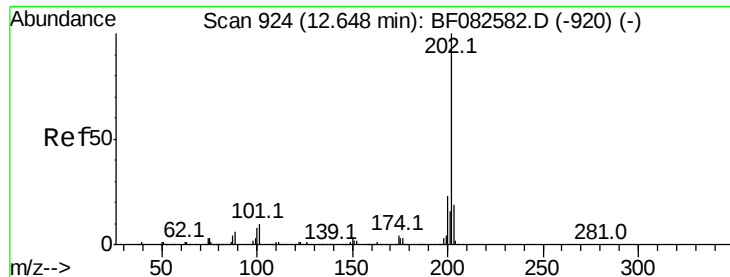
Tot Ion:178 Resp: 2228511
Ion Ratio Lower Upper
178 100
176 20.9 17.0 25.4
179 19.5 13.4 20.0



#71
Anthracene
Concen: 39.41 ng m
RT: 11.52 min Scan# 825
Delta R.T. 0.03 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

Tgt Ion:178 Resp: 756530
Ion Ratio Lower Upper
178 100
176 20.7 16.5 24.7
179 21.8 13.2 19.8#





#74

Fluoranthene

Concen: 49.87 ng

RT: 12.68 min Scan# 927

Delta R.T. 0.06 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

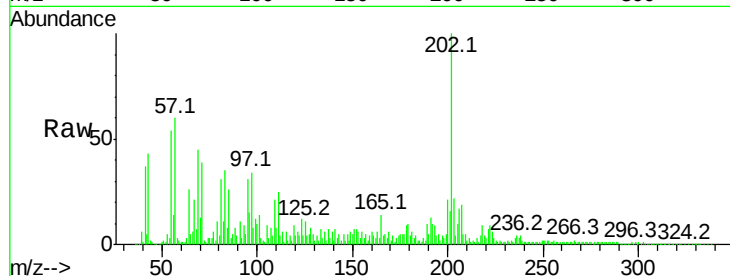
Tot Ion:202 Resp: 972047

Ion Ratio Lower Upper

202 100

101 13.9 0.0 30.5

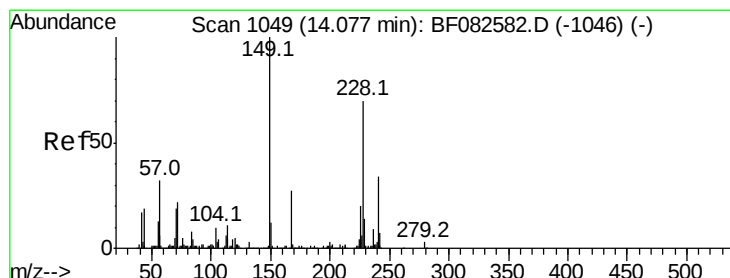
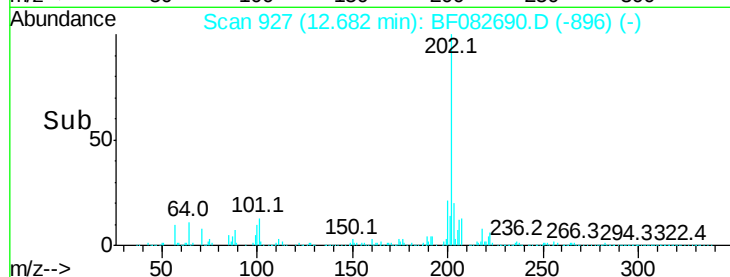
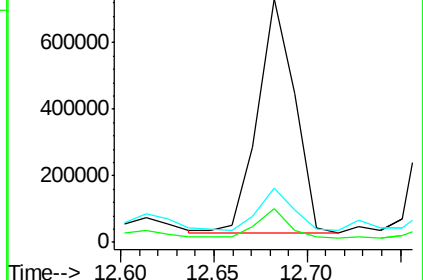
203 22.1 0.0 38.5



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: 14.09 min Scan# 1050

Delta R.T. 0.03 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

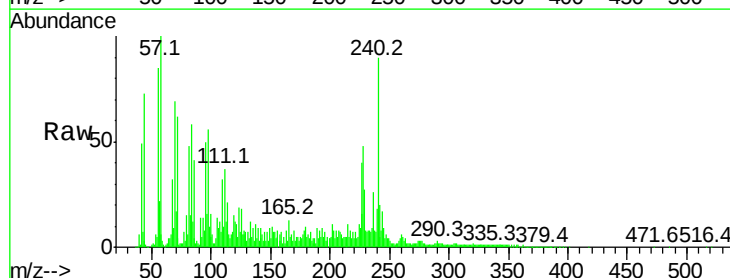
Tgt Ion:240 Resp: 387086

Ion Ratio Lower Upper

240 100

120 13.0 10.9 16.3

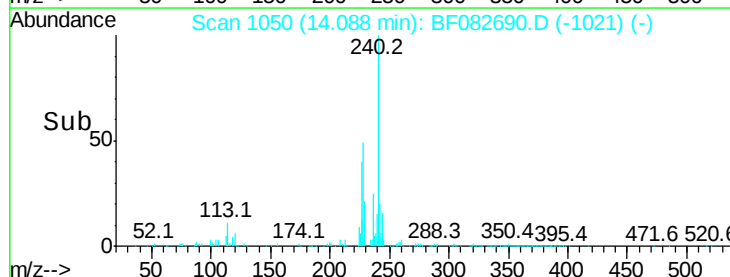
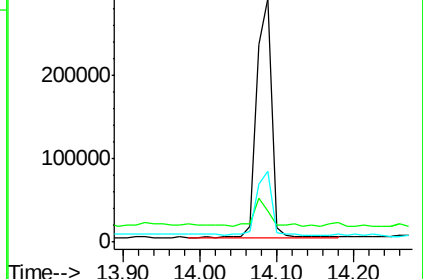
236 29.3 21.6 32.4

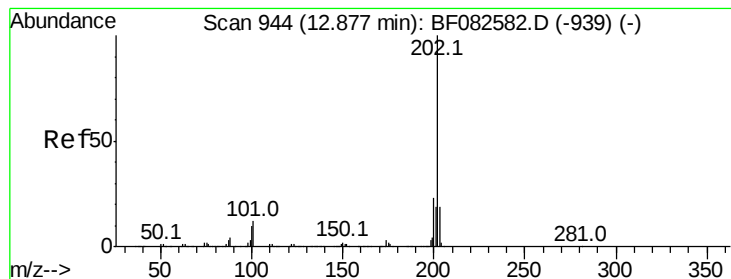


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 64.29 ng

RT: 12.90 min Scan# 946

Delta R.T. 0.05 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

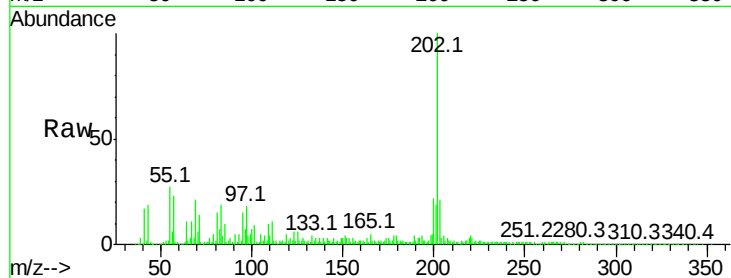
Tot Ion:202 Resp: 1842741

Ion Ratio Lower Upper

202 100

200 22.3 18.7 28.1

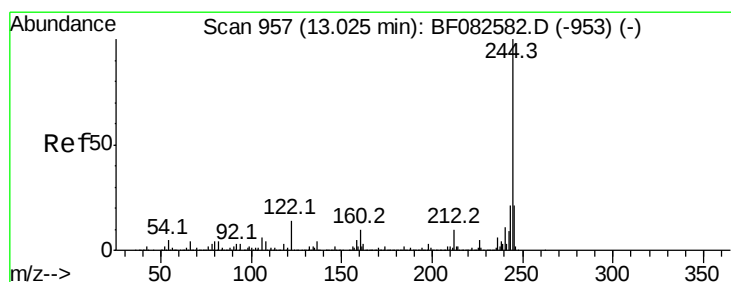
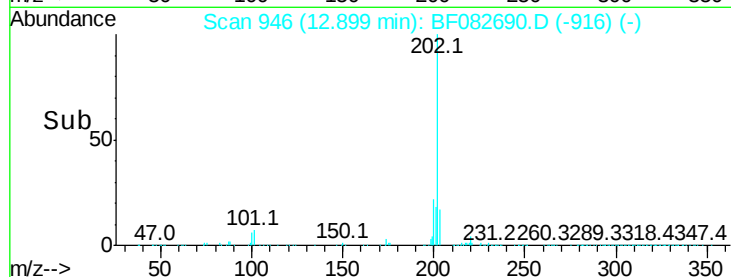
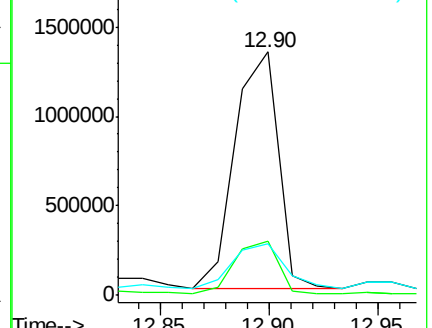
203 20.9 14.8 22.2



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: 56.03 ng

RT: 13.03 min Scan# 957

Delta R.T. 0.02 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

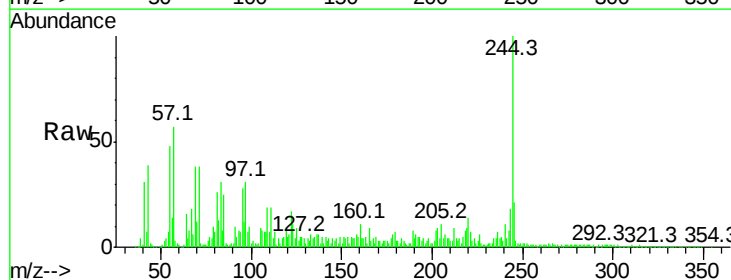
Tgt Ion:244 Resp: 991086

Ion Ratio Lower Upper

244 100

212 8.9 7.6 11.4

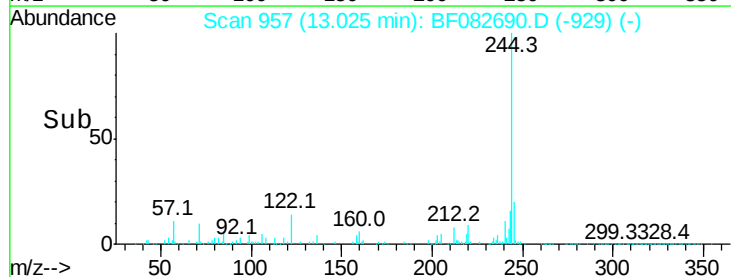
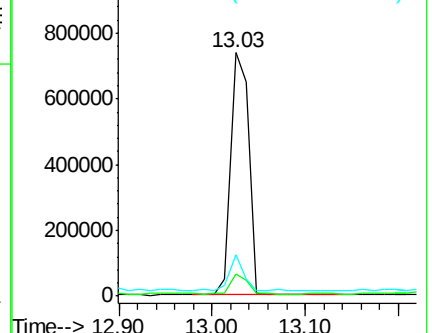
122 16.8 11.3 16.9

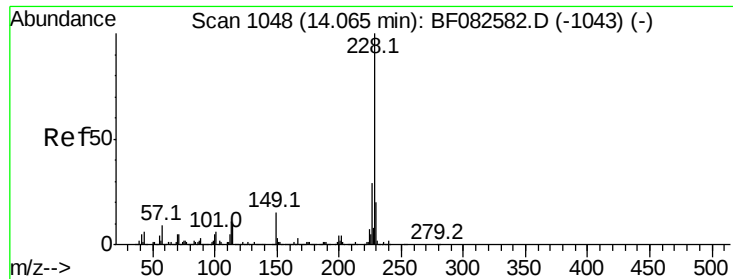


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 24.73 ng m

RT: 14.08 min Scan# 1049

Delta R.T. 0.03 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

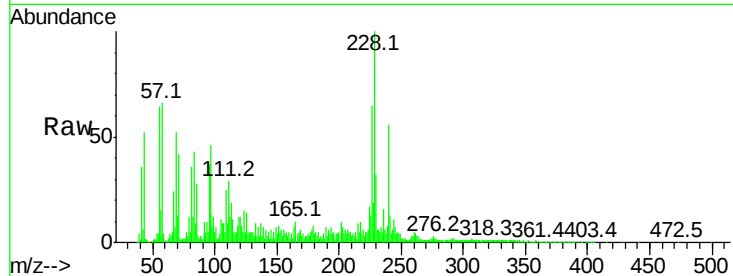
Tot Ion:228 Resp: 608002

Ion Ratio Lower Upper

228 100

226 65.2 23.4 35.2#

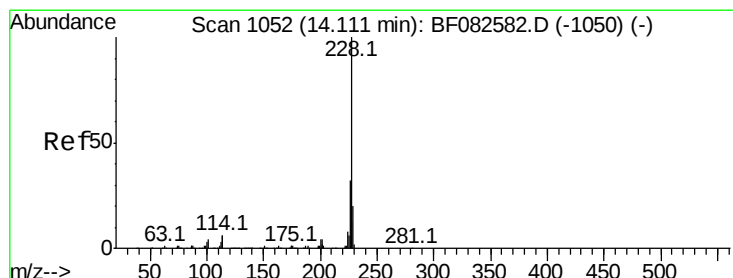
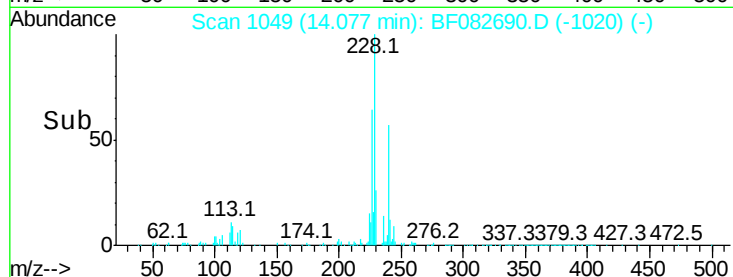
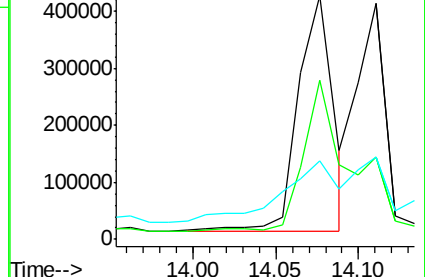
229 32.1 16.3 24.5#



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: 22.03 ng m

RT: 14.11 min Scan# 1052

Delta R.T. 0.02 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

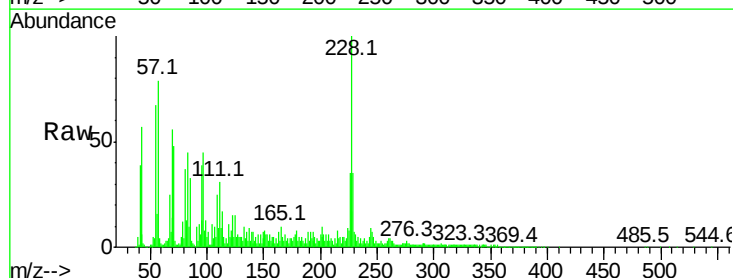
Tgt Ion:228 Resp: 490903

Ion Ratio Lower Upper

228 100

226 34.8 25.5 38.3

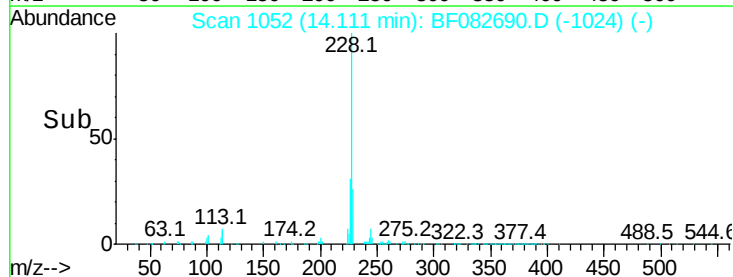
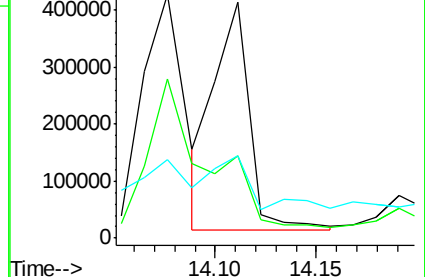
229 34.7 16.3 24.5#

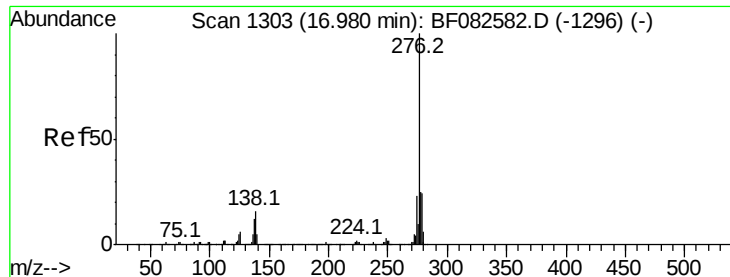


Abundance Ion 228.00 (227.70 to 228.70): E

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: 10.48 ng

RT: 16.97 min Scan# 1302

Delta R.T. 0.03 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

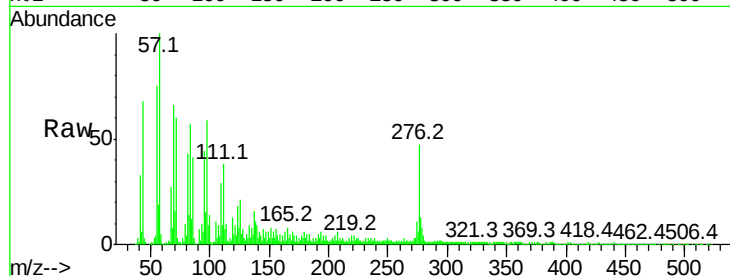
Tot Ion:276 Resp: 192775

Ion Ratio Lower Upper

276 100

138 17.4 15.3 22.9

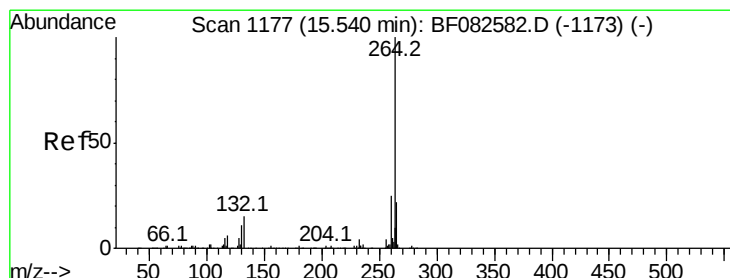
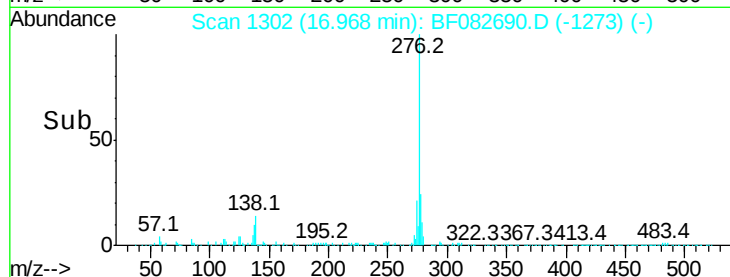
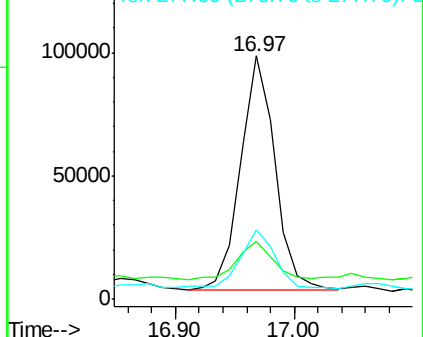
277 25.3 20.2 30.4



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: 15.54 min Scan# 1177

Delta R.T. 0.03 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

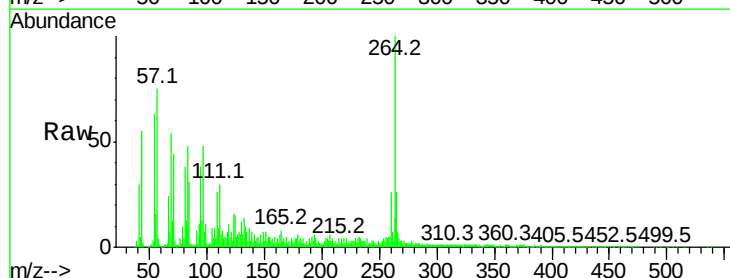
Tgt Ion:264 Resp: 323870

Ion Ratio Lower Upper

264 100

260 26.5 19.8 29.6

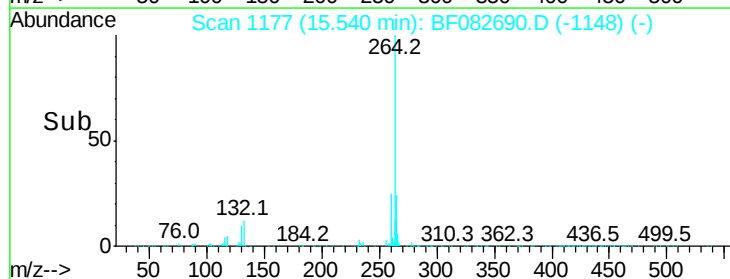
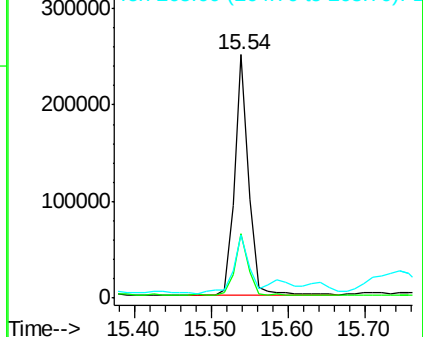
265 26.0 17.4 26.0

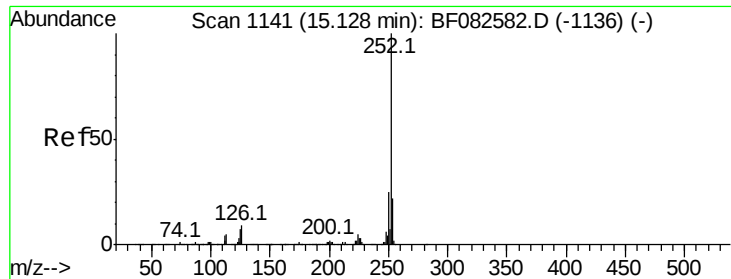


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

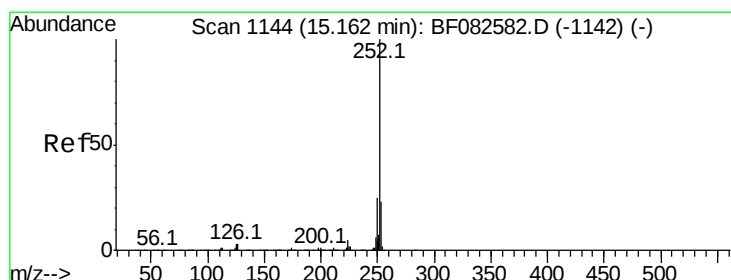
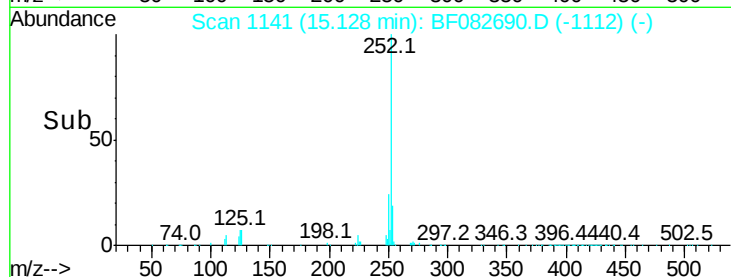
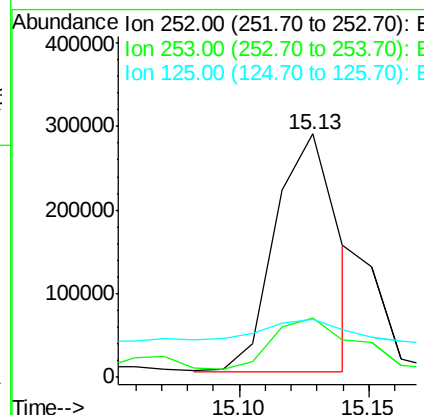
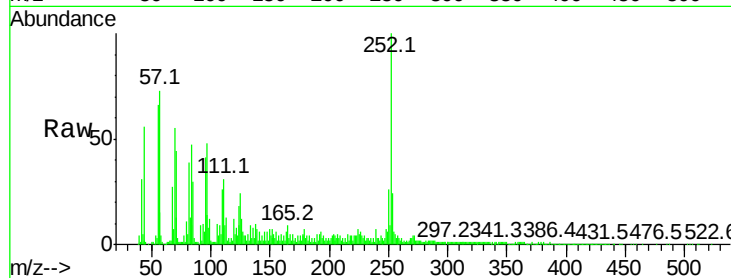




#87
Benzo(b)fluoranthene
Concen: 21.12 ng m
RT: 15.13 min Scan# 1141
Delta R.T. 0.03 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

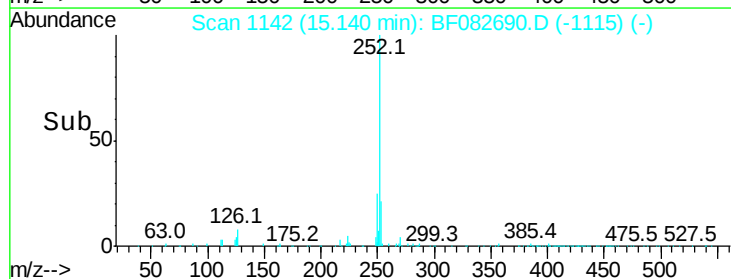
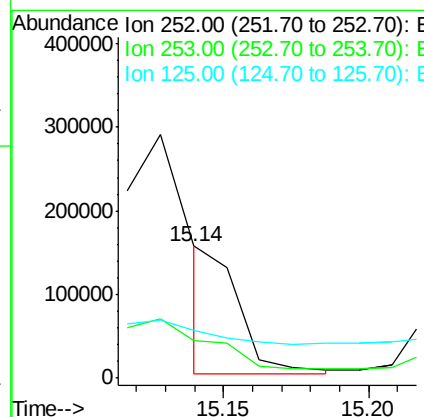
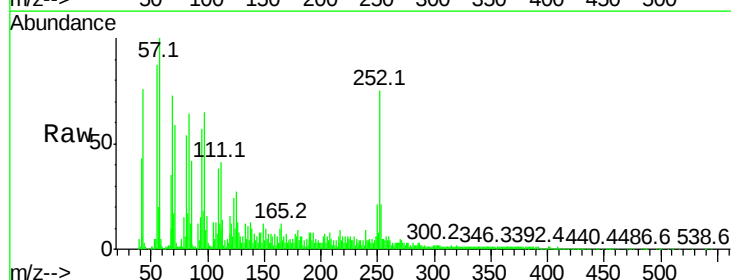
Instrument :
BNA_F
ClientSampleId :
TP-117(3)

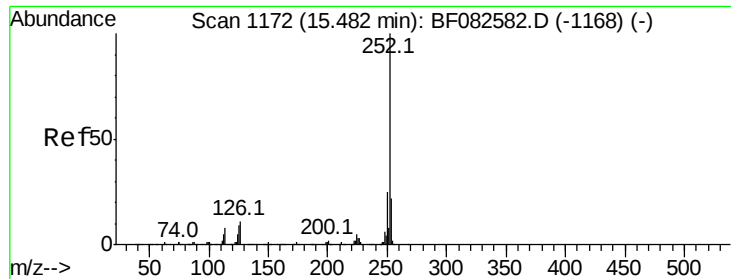
Tot Ion:252 Resp: 471658
Ion Ratio Lower Upper
252 100
253 24.2 17.8 26.8
125 23.7 5.4 8.2#



#88
Benzo(k)fluoranthene
Concen: 6.33 ng m
RT: 15.14 min Scan# 1142
Delta R.T. 0.01 min
Lab File: BF082690.D
Acq: 4 Nov 2015 8:13

Tgt Ion:252 Resp: 107711
Ion Ratio Lower Upper
252 100
253 28.8 17.9 26.9#
125 36.5 3.5 5.3#





#89

Benzo(a)pyrene

Concen: 22.61 ng

RT: 15.48 min Scan# 1172

Delta R.T. 0.03 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

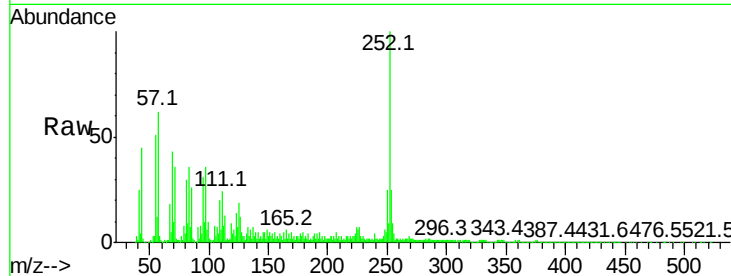
Tot Ion:252 Resp: 397701

Ion Ratio Lower Upper

252 100

253 25.5 17.3 25.9

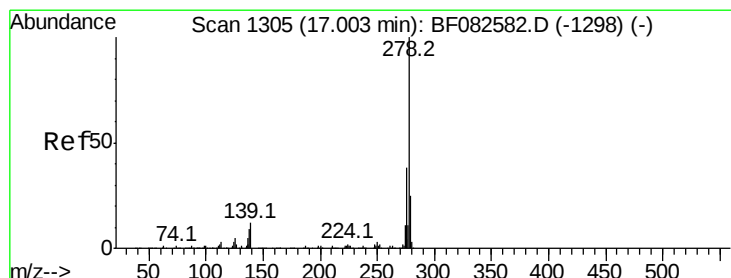
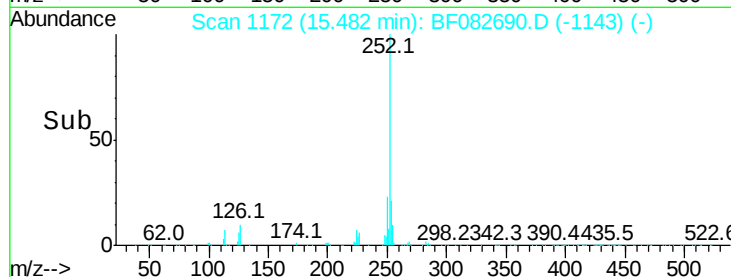
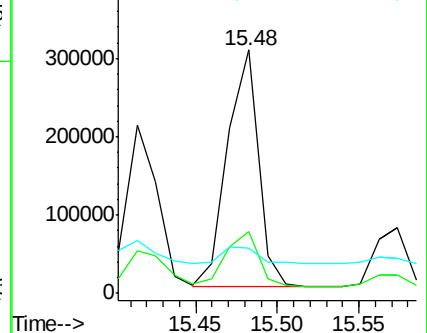
125 18.7 7.1 10.7#



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: 2.23 ng

RT: 16.98 min Scan# 1303

Delta R.T. 0.02 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

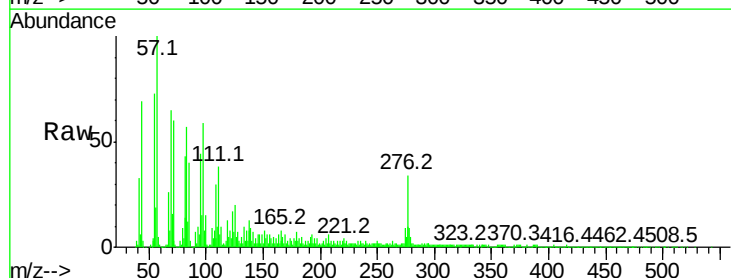
Tgt Ion:278 Resp: 36655

Ion Ratio Lower Upper

278 100

139 94.0 9.9 14.9#

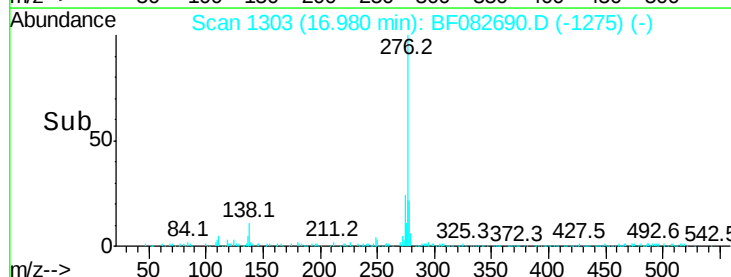
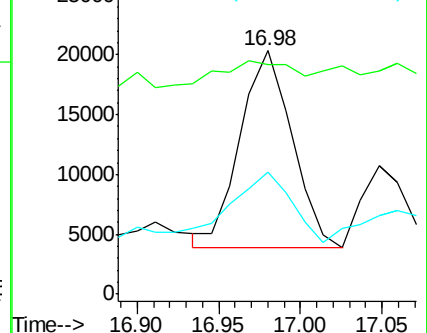
279 50.0 19.6 29.4#

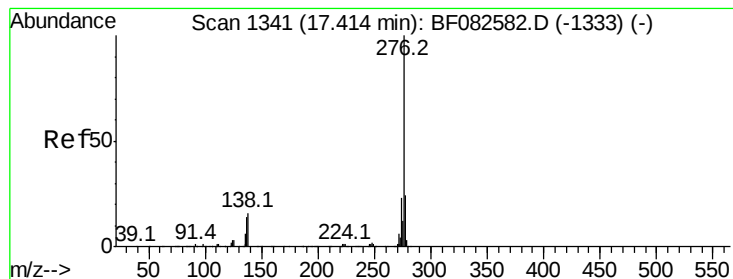


Abundance Ion 278.00 (277.70 to 278.70): E

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: 13.30 ng

RT: 17.40 min Scan# 1340

Delta R.T. 0.05 min

Lab File: BF082690.D

Acq: 4 Nov 2015 8:13

Instrument :

BNA_F

ClientSampleId :

TP-117(3)

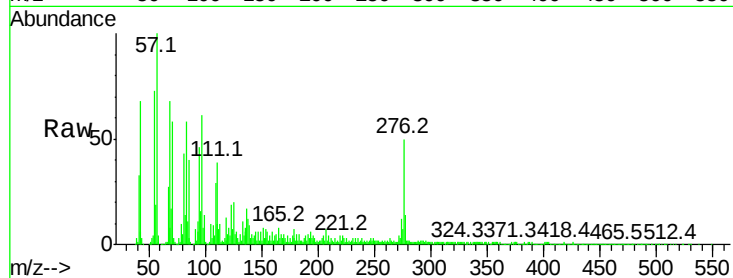
Tot Ion:276 Resp: 211544

Ion Ratio Lower Upper

276 100

277 27.3 19.2 28.8

138 24.9 13.1 19.7#



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

