

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092716\
 Data File : BF090270.D
 Acq On : 27 Sep 2016 23:37
 Operator : UM/SJ
 Sample : H4949-09 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-5-1-LOC-5(0-5)

Quant Time: Sep 28 00:45:53 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 26 15:58:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	160894	20.00	ng	0.15
21) Naphthalene-d8	0.00	136	0	0.00	ng	-7.77
38) Acenaphthene-d10	9.50	164	269435	20.00	ng	-0.01
63) Phenanthrene-d10	10.97	188	376250	20.00	ng	-0.01
75) Chrysene-d12	13.58	240	287890	20.00	ng	-0.02
86) Perylene-d12	14.90	264	237392	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.03	112	356484	36.11	ng	0.00
7) Phenol-d6	6.12	99	463912	38.06	ng	-0.01
23) Nitrobenzene-d5	7.04	82	249874	0.00	ng	-0.02
41) 2,4,6-Tribromophenol	10.28	330	87776	37.97	ng	-0.01
44) 2-Fluorobiphenyl	8.84	172	479420	34.93	ng	-0.01
78) Terphenyl-d14	12.55	244	313426	27.64	ng	-0.01

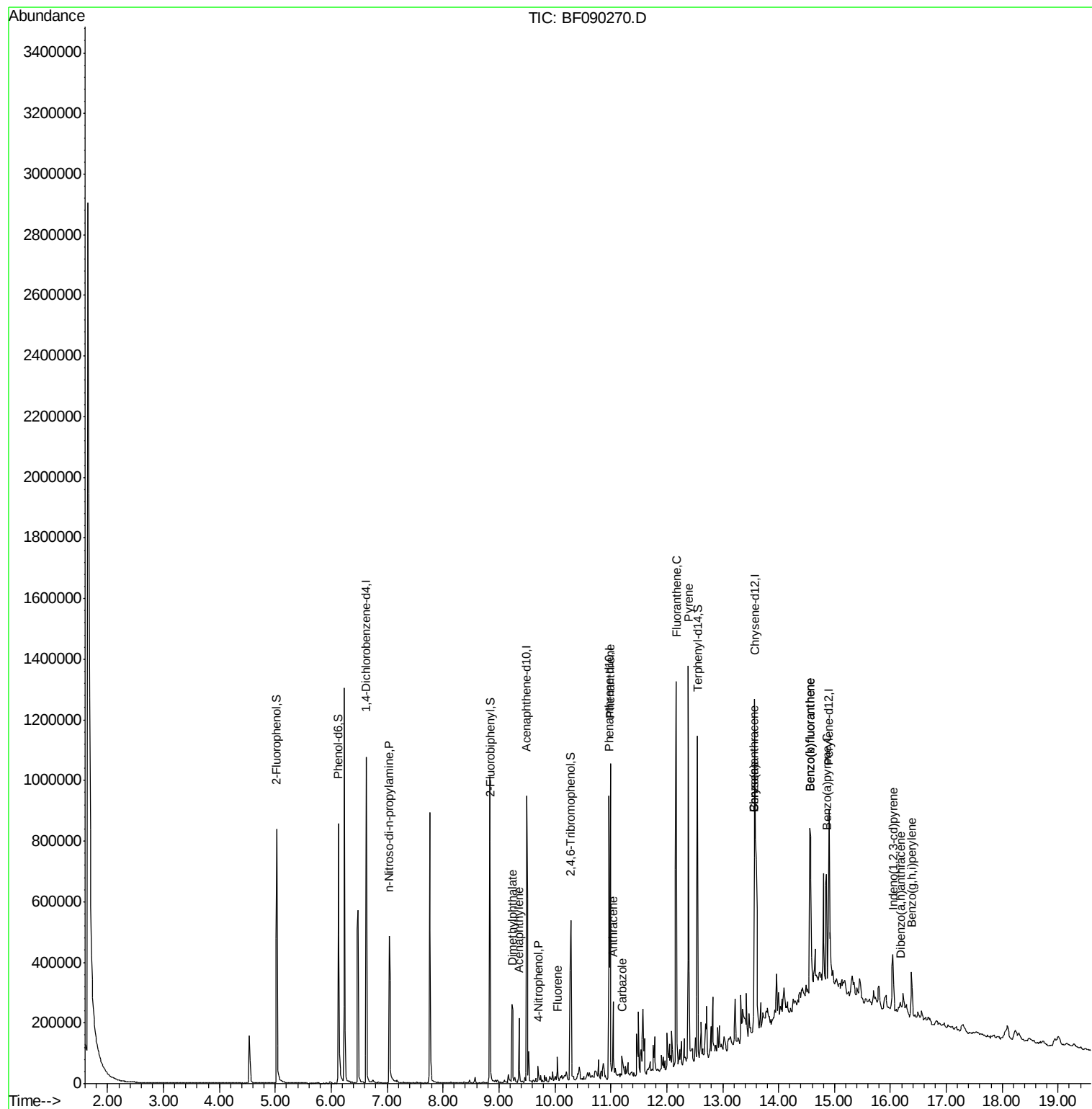
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.04	70	30101	4.20	ng	# 84
48) Acenaphthylene	9.36	152	92222	3.99	ng	99
49) Dimethylphthalate	9.24	163	174300	10.16	ng	98
55) 4-Nitrophenol	9.70	139	6543	2.13	ng	# 20
57) Fluorene	10.04	166	29361	2.16	ng	98
70) Phenanthrene	10.99	178	409361	23.26	ng	98
71) Anthracene	11.04	178	109354	5.93	ng	98
72) Carbazole	11.20	167	48081	2.46	ng	98
74) Fluoranthene	12.17	202	596752	31.59	ng	93
77) Pyrene	12.39	202	512031	25.99	ng	98
80) Benzo(a)anthracene	13.57	228	309852	20.01	ng	# 91
82) Chrysene	13.57	228	309852	20.54	ng	95
85) Indeno(1,2,3-cd)pyrene	16.05	276	119382	9.79	ng	95
87) Benzo(b)fluoranthene	14.57	252	413625	31.47	ng	96
88) Benzo(k)fluoranthene	14.57	252	413625	33.53	ng	# 96
89) Benzo(a)pyrene	14.86	252	214329	17.33	ng	98
90) Dibenzo(a,h)anthracene	16.18	278	24986	2.59	ng	92
91) Benzo(g,h,i)perylene	16.38	276	103961	11.01	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: 6.63 min Scan# 441

Delta R.T. 0.15 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

S-5-1-LOC-5(0-5)

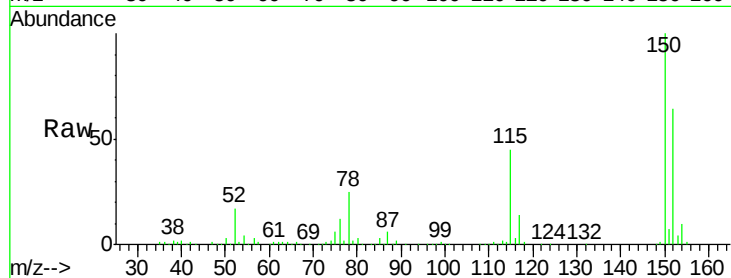
Tgt Ion:152 Resp: 160894

Ion Ratio Lower Upper

152 100

150 156.1 128.9 193.3

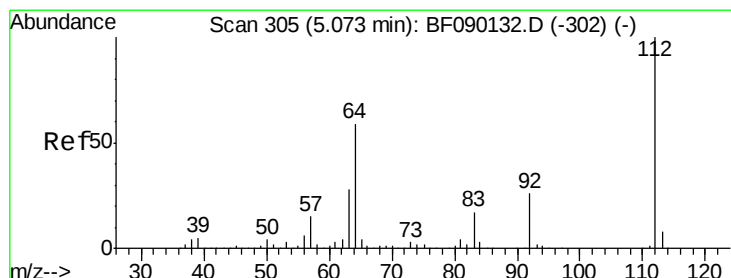
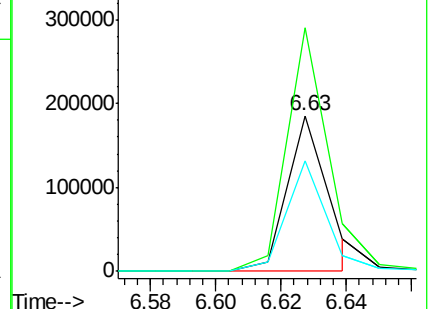
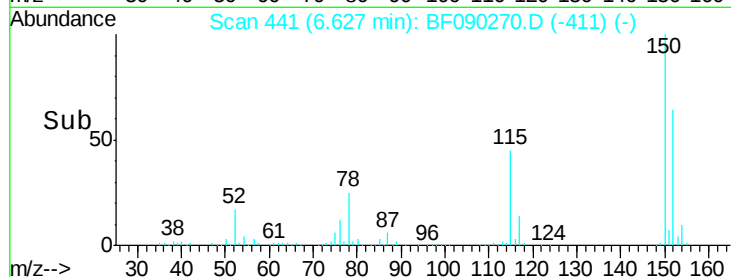
115 70.6 55.5 83.3



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: 36.11 ng

RT: 5.03 min Scan# 301

Delta R.T. -0.00 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

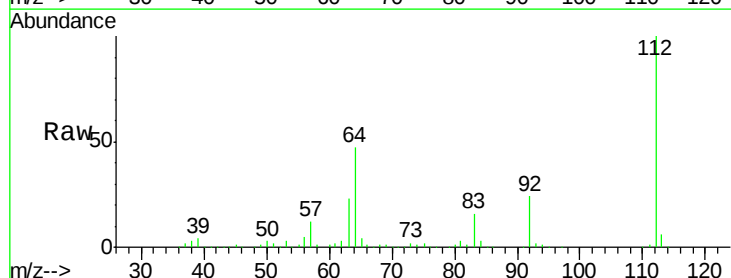
Tgt Ion:112 Resp: 356484

Ion Ratio Lower Upper

112 100

64 47.5 39.8 59.6

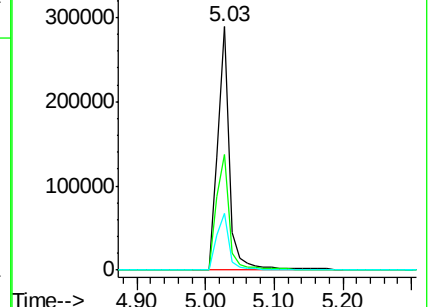
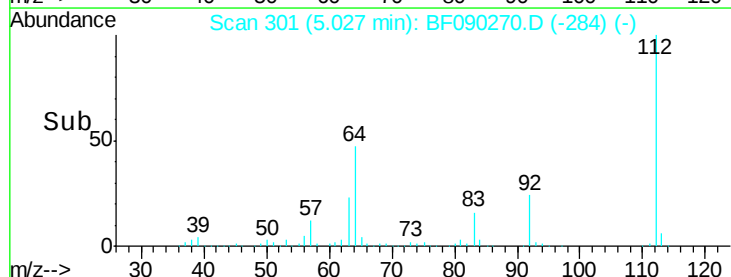
63 23.1 18.9 28.3

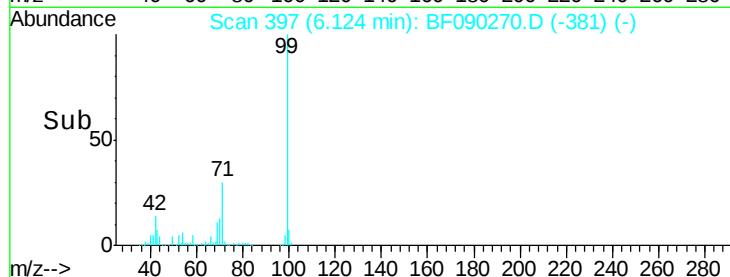
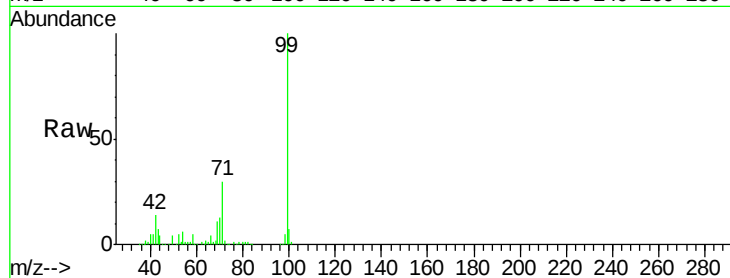


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 38.06 ng

RT: 6.12 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

S-5-1-LOC-5(0-5)

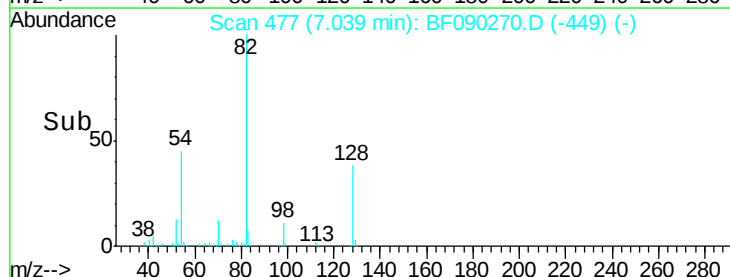
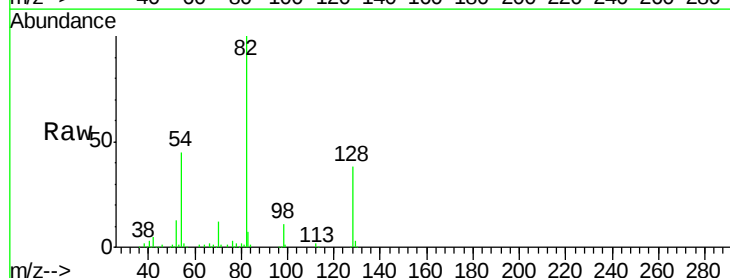
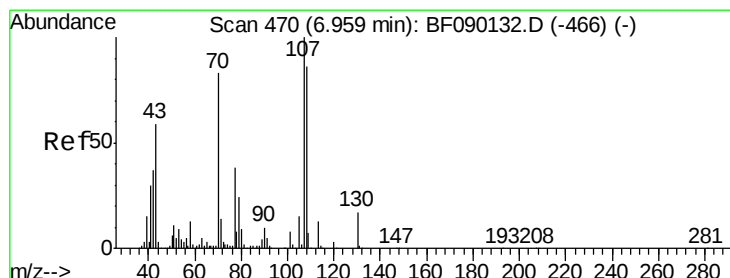
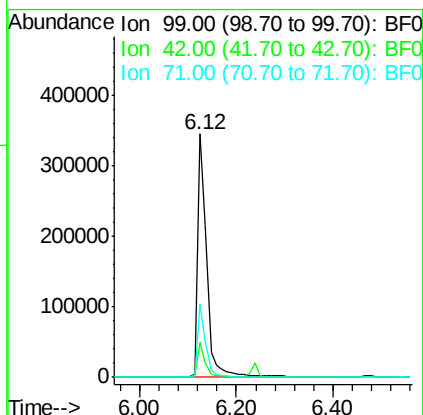
Tgt Ion: 99 Resp: 463912

Ion Ratio Lower Upper

99 100

42 14.4 10.6 15.8

71 30.2 23.0 34.6



#19

n-Nitroso-di-n-propylamine

Concen: 4.20 ng

RT: 7.04 min Scan# 477

Delta R.T. 0.13 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Tgt Ion: 70 Resp: 30101

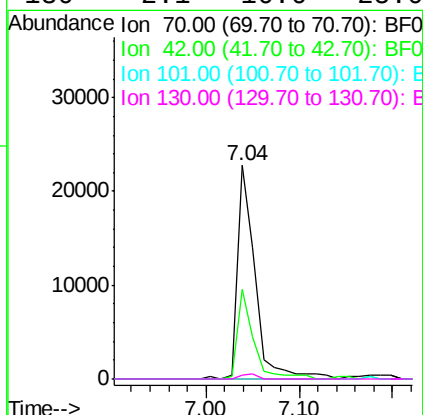
Ion Ratio Lower Upper

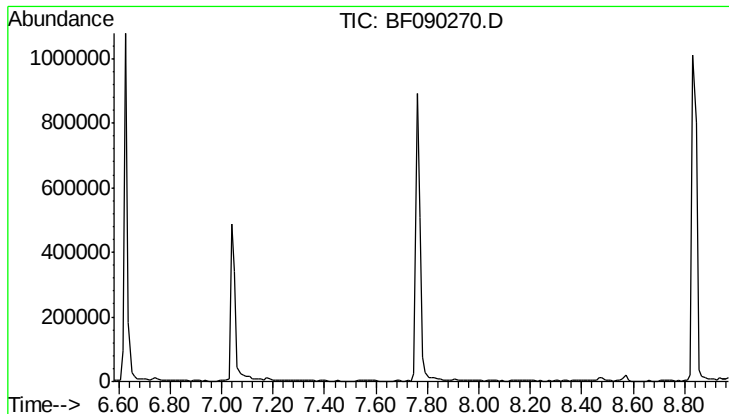
70 100

42 41.8 35.1 52.7

101 0.0 7.5 11.3#

130 2.1 16.6 25.0#

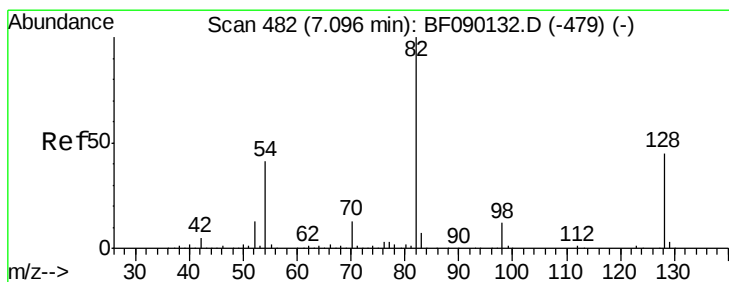
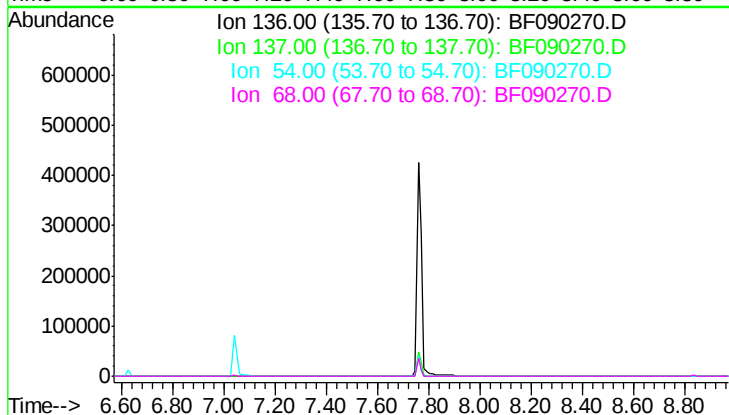




#21
Naphthalene-d8
Concen: 0.00 ng
Expected RT: 7.77 min
Lab File: BF090270.D
Acq: 27 Sep 2016 23:37

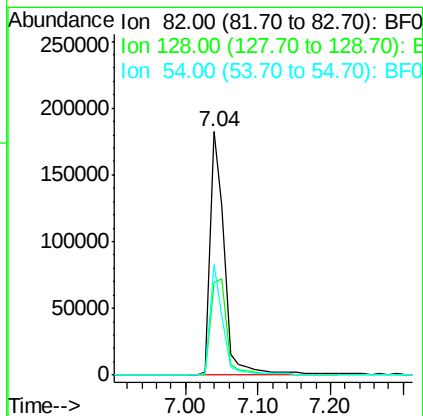
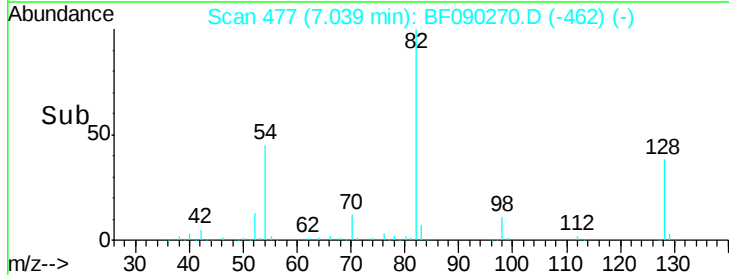
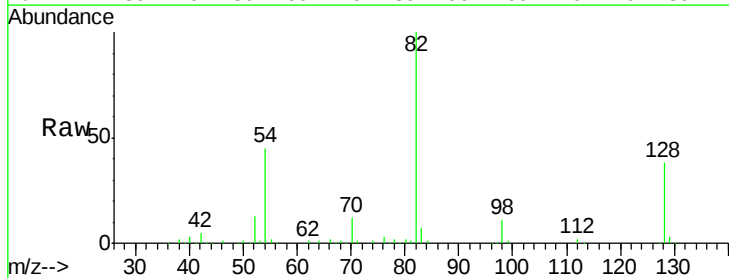
Instrument :
BNA_F
ClientSampleId :
S-5-1-LOC-5(0-5)

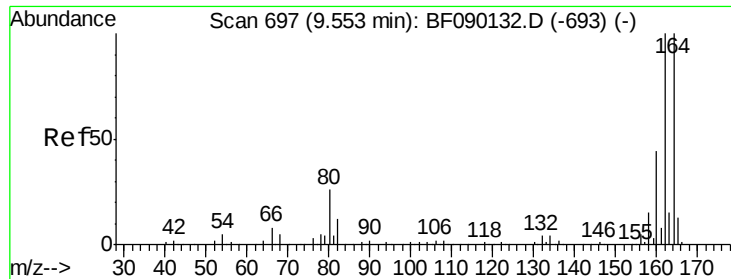
Tgt Ion: 136
Sig Exp Ratio
136 100
137 11.2
54 8.0
68 7.9



#23
Nitrobenzene-d5
Concen: 0.00 ng
RT: 7.04 min Scan# 477
Delta R.T. -0.02 min
Lab File: BF090270.D
Acq: 27 Sep 2016 23:37

Tgt Ion: 82 Resp: 249874
Ion Ratio Lower Upper
82 100
128 38.0 37.5 56.3
54 45.1 31.9 47.9

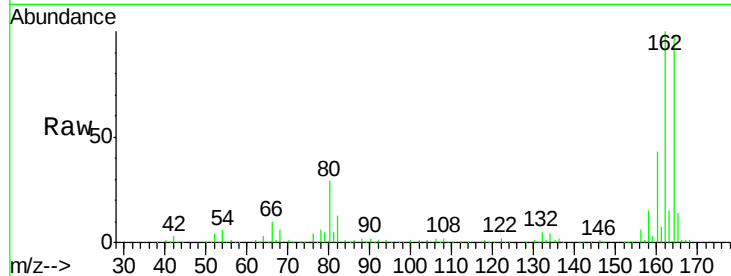




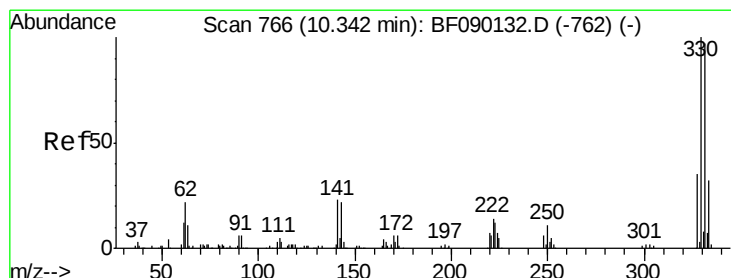
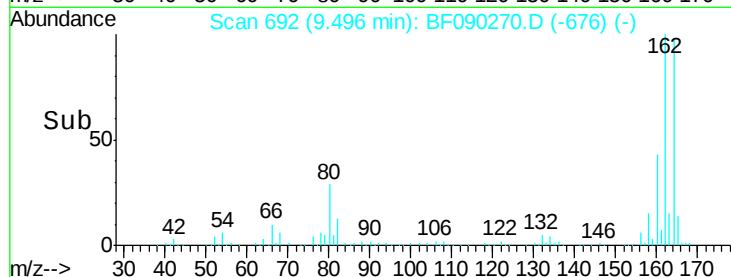
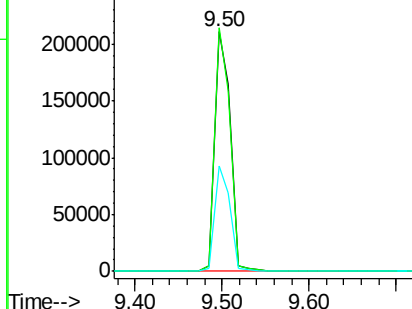
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.50 min Scan# 692
 Delta R.T. -0.01 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

Instrument :
 BNA_F
 ClientSampleId :
 S-5-1-LOC-5(0-5)

Tgt Ion:164 Resp: 269435
 Ion Ratio Lower Upper
 164 100
 162 101.6 81.4 122.2
 160 44.1 36.6 54.8

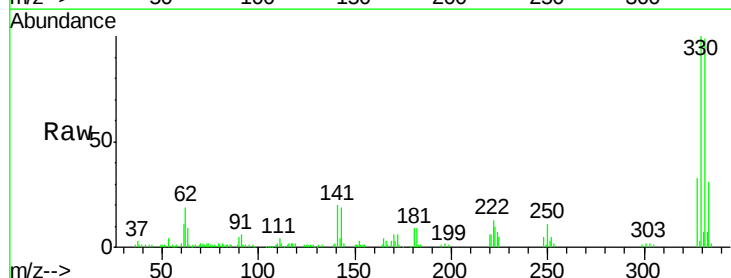


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

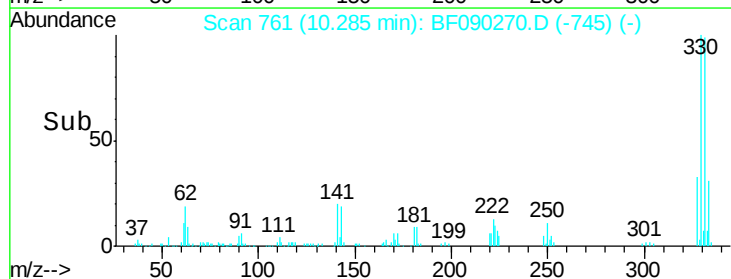
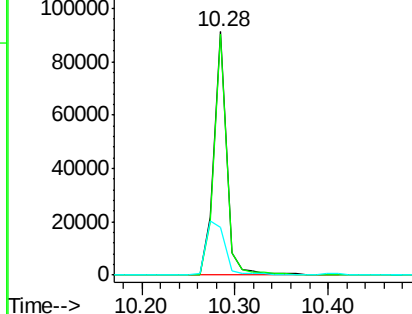


#41
 2,4,6-Tribromophenol
 Concen: 37.97 ng
 RT: 10.28 min Scan# 761
 Delta R.T. -0.01 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

Tgt Ion:330 Resp: 87776
 Ion Ratio Lower Upper
 330 100
 332 97.6 78.1 117.1
 141 33.2 23.9 35.9



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

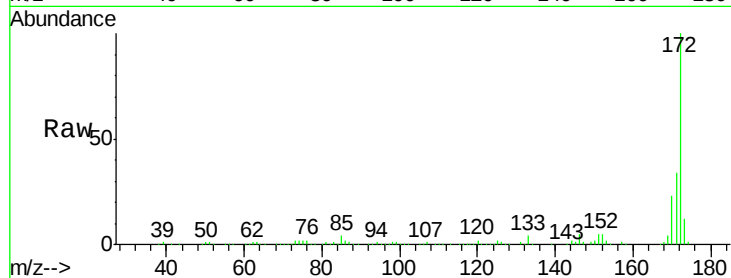




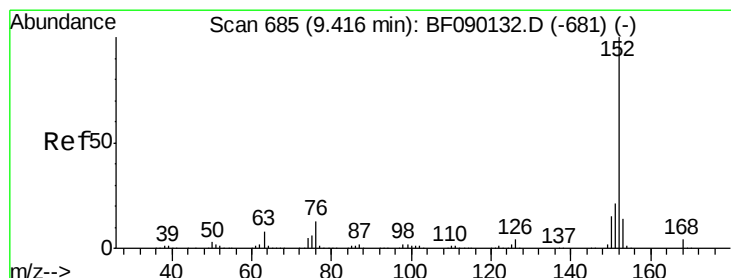
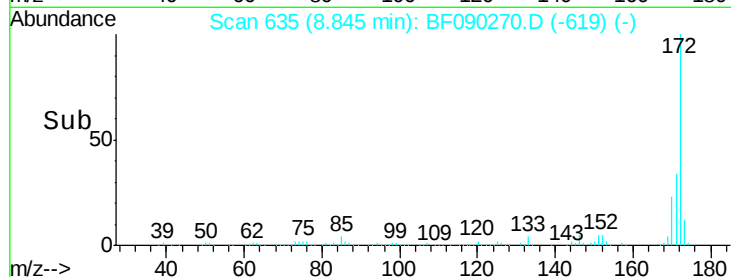
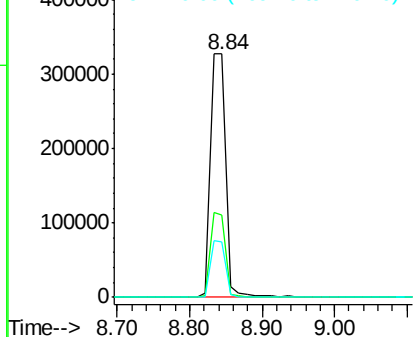
#44
 2-Fluorobiphenyl
 Concen: 34.93 ng
 RT: 8.84 min Scan# 635
 Delta R.T. -0.01 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

Instrument :
 BNA_F
 ClientSampleId :
 S-5-1-LOC-5(0-5)

Tgt Ion:172 Resp: 479420
 Ion Ratio Lower Upper
 172 100
 171 33.9 29.2 43.8
 170 22.7 19.8 29.8

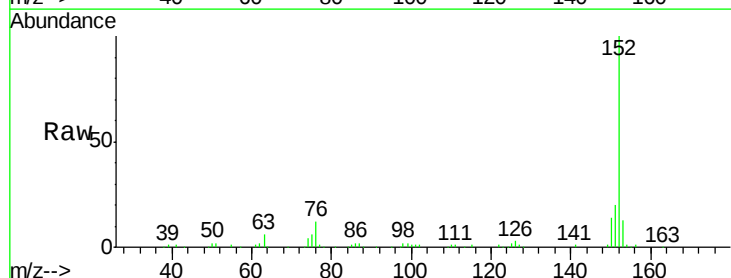


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

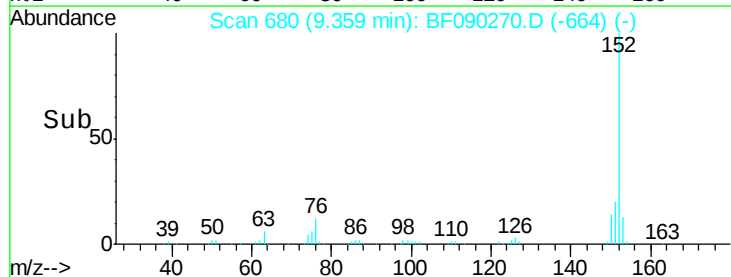
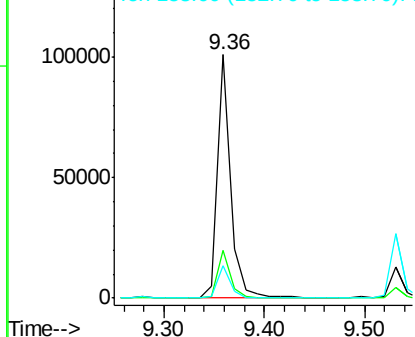


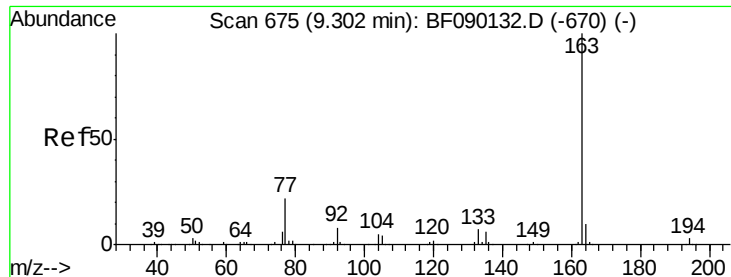
#48
 Acenaphthylene
 Concen: 3.99 ng
 RT: 9.36 min Scan# 680
 Delta R.T. -0.01 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

Tgt Ion:152 Resp: 92222
 Ion Ratio Lower Upper
 152 100
 151 19.7 16.5 24.7
 153 13.1 10.6 15.8



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

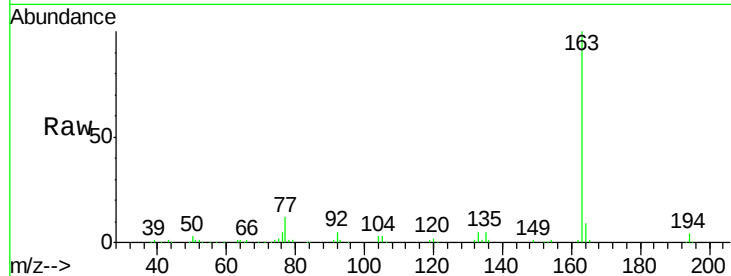




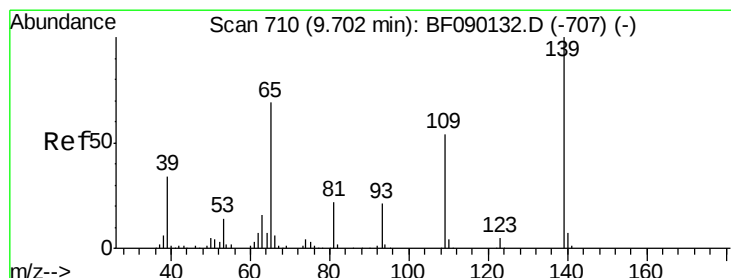
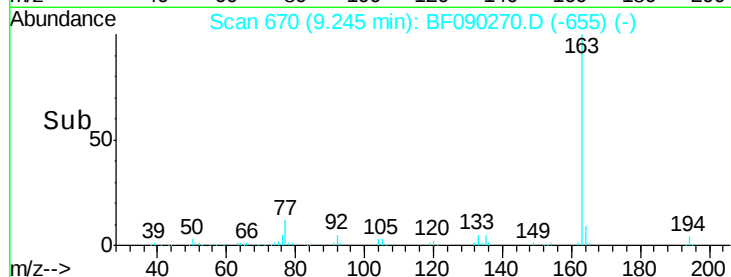
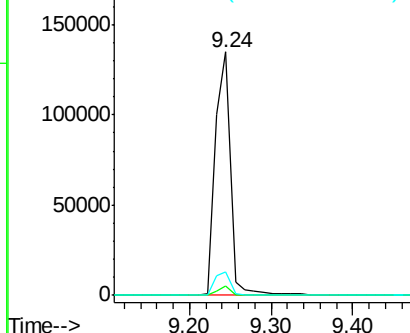
#49
Dimethylphthalate
Concen: 10.16 ng
RT: 9.24 min Scan# 670
Delta R.T. -0.02 min
Lab File: BF090270.D
Acq: 27 Sep 2016 23:37

Instrument :
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ClientSampleId :
S-5-1-LOC-5(0-5)

Tgt Ion:163 Resp: 174300
Ion Ratio Lower Upper
163 100
194 3.7 2.8 4.2
164 9.4 8.1 12.1

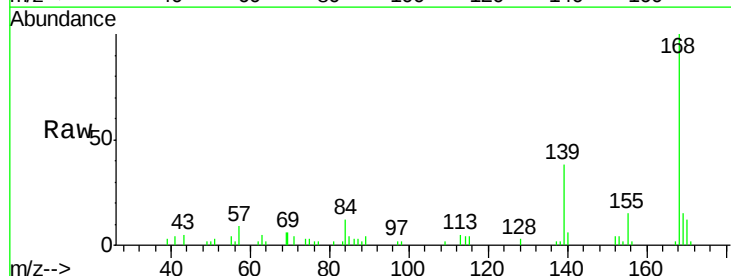


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

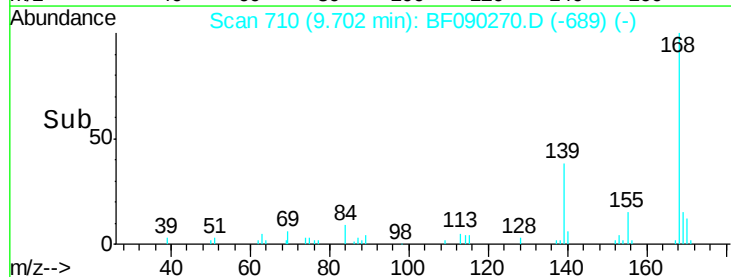
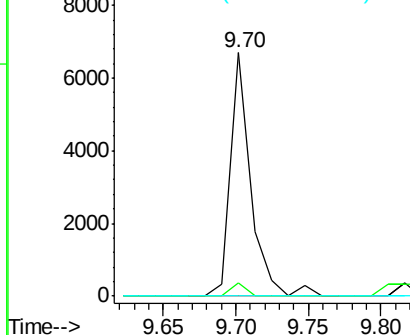


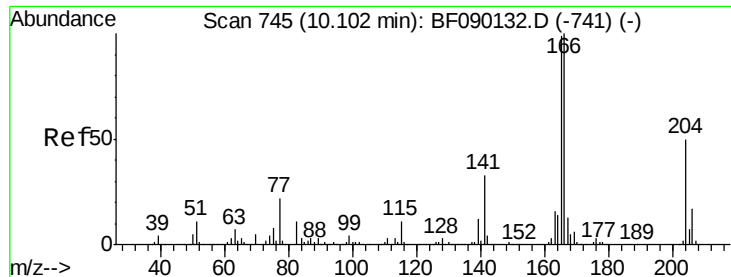
#55
4-Nitrophenol
Concen: 2.13 ng
RT: 9.70 min Scan# 710
Delta R.T. 0.05 min
Lab File: BF090270.D
Acq: 27 Sep 2016 23:37

Tgt Ion:139 Resp: 6543
Ion Ratio Lower Upper
139 100
109 5.2 35.6 75.6#
65 0.0 55.5 95.5#



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

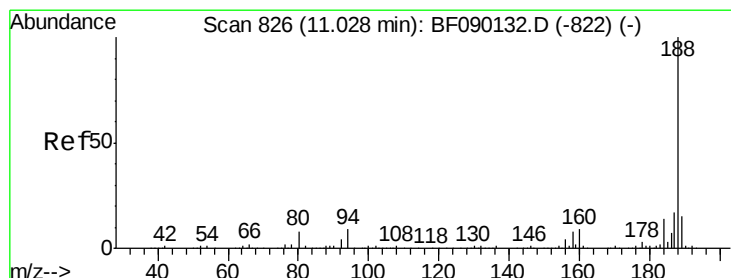
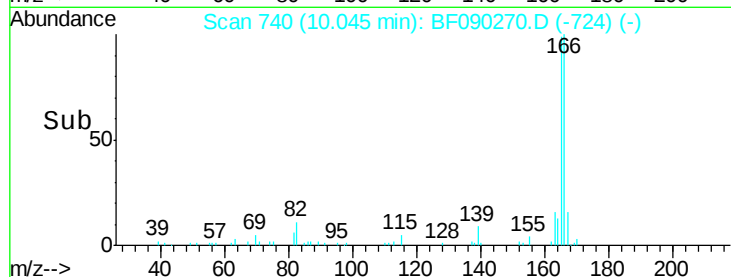
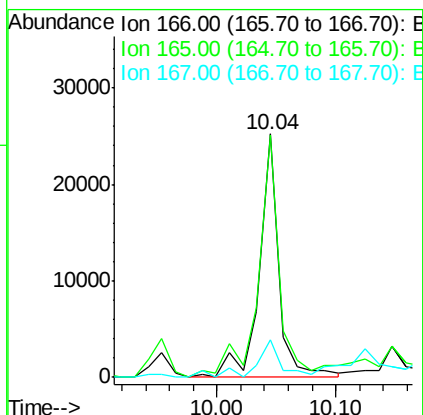
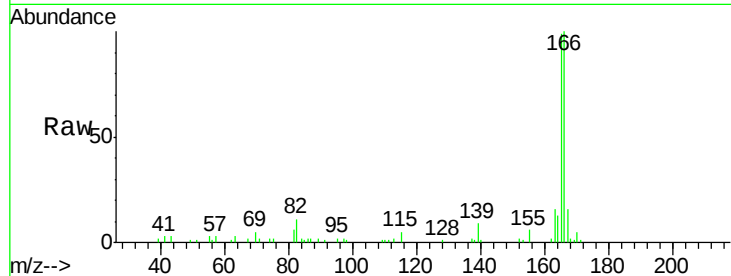




#57
Fluorene
 Concen: 2.16 ng
 RT: 10.04 min Scan# 740
 Delta R.T. -0.01 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

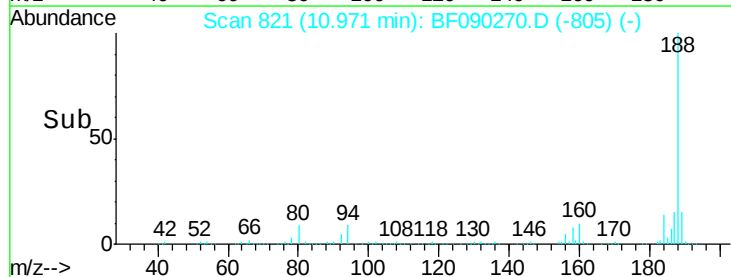
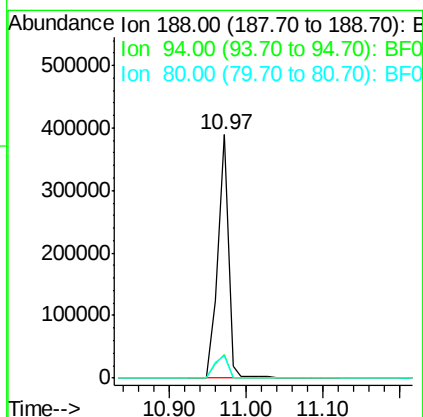
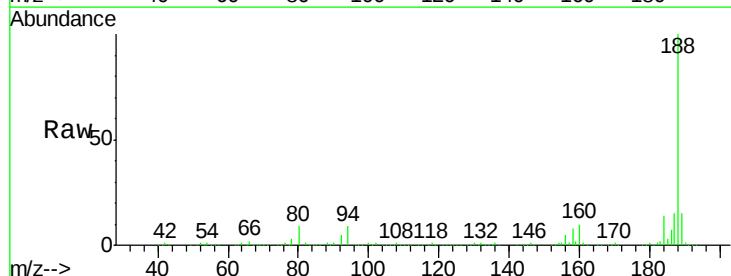
Instrument :
 BNA_F
 ClientSampleId :
 S-5-1-LOC-5(0-5)

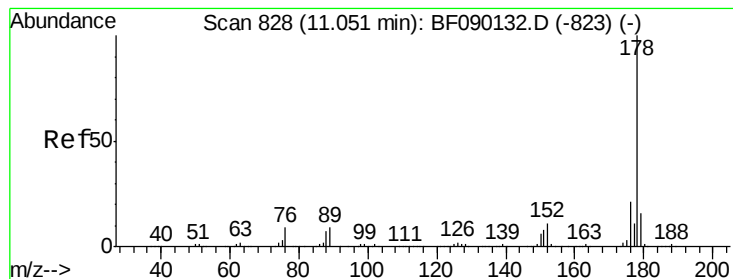
Tgt Ion:166 Resp: 29361
 Ion Ratio Lower Upper
 166 100
 165 99.5 78.5 117.7
 167 15.6 11.2 16.8



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.97 min Scan# 821
 Delta R.T. -0.01 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

Tgt Ion:188 Resp: 376250
 Ion Ratio Lower Upper
 188 100
 94 9.4 10.5 15.7#
 80 9.1 11.2 16.8#





#70

Phenanthrene

Concen: 23.26 ng

RT: 10.99 min Scan# 823

Delta R.T. -0.01 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

S-5-1-LOC-5(0-5)

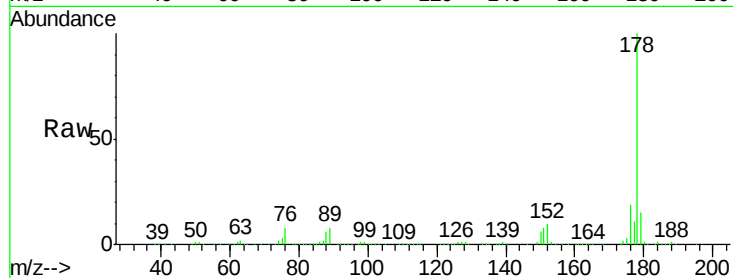
Tgt Ion:178 Resp: 409361

Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

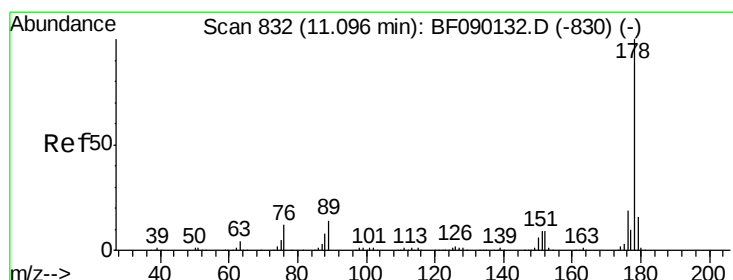
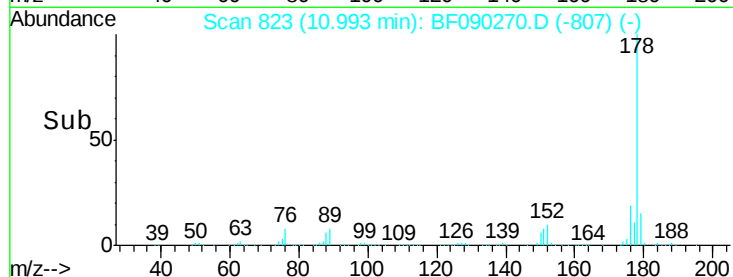
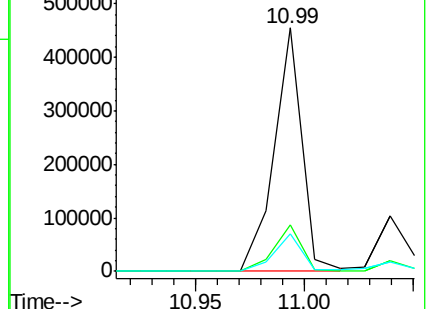
179 15.4 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 5.93 ng

RT: 11.04 min Scan# 827

Delta R.T. -0.02 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

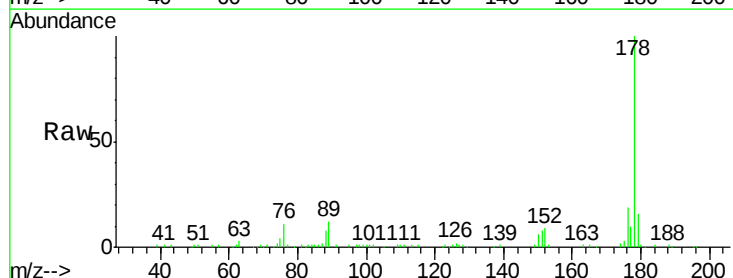
Tgt Ion:178 Resp: 109354

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.6

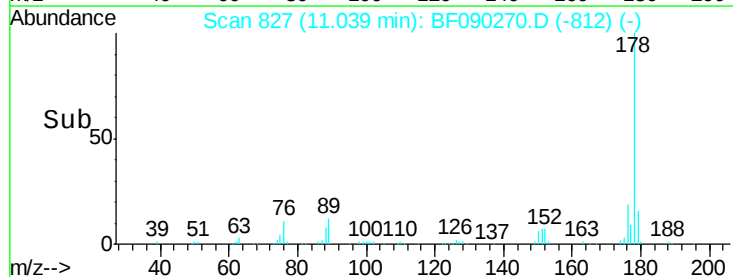
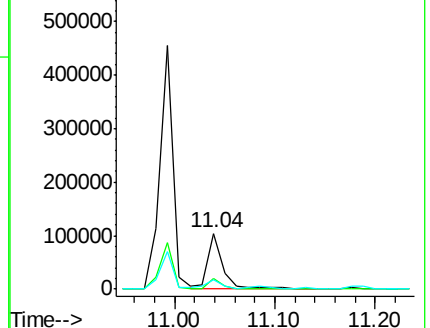
179 16.0 12.6 19.0

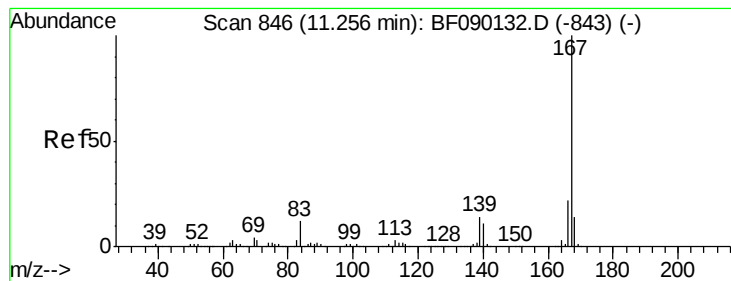


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.46 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.02 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

S-5-1-LOC-5(0-5)

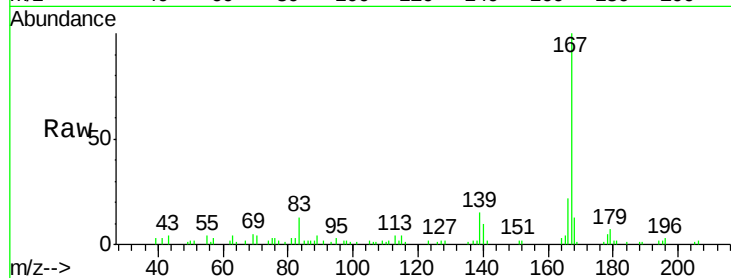
Tgt Ion:167 Resp: 48081

Ion Ratio Lower Upper

167 100

166 22.4 18.0 27.0

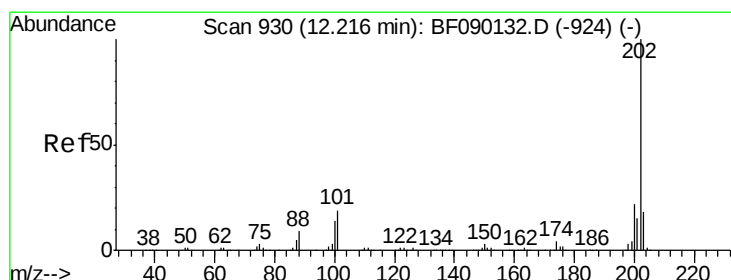
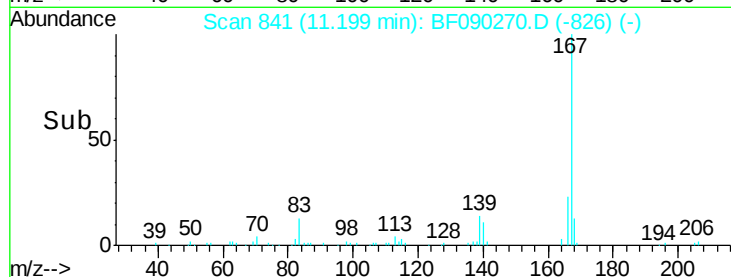
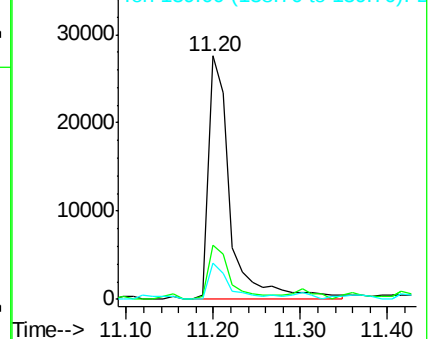
139 14.7 10.4 15.6



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 31.59 ng

RT: 12.17 min Scan# 926

Delta R.T. -0.01 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

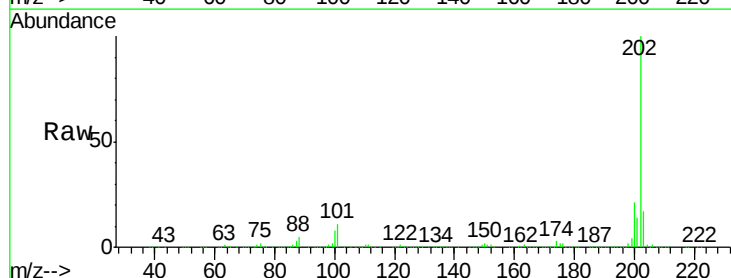
Tgt Ion:202 Resp: 596752

Ion Ratio Lower Upper

202 100

101 10.8 0.0 36.1

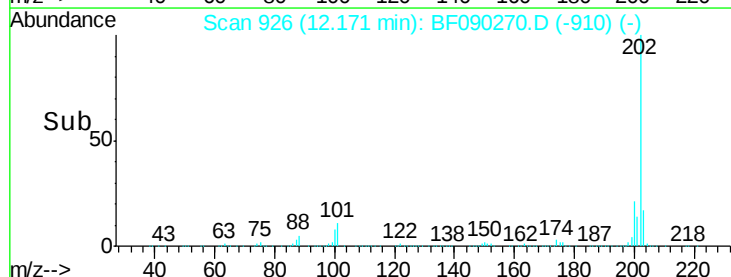
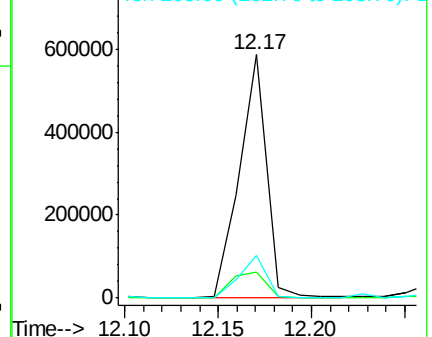
203 17.5 0.0 38.2

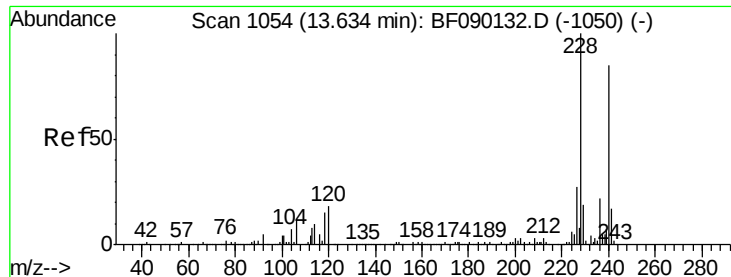


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.58 min Scan# 1049

Delta R.T. -0.02 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

S-5-1-LOC-5(0-5)

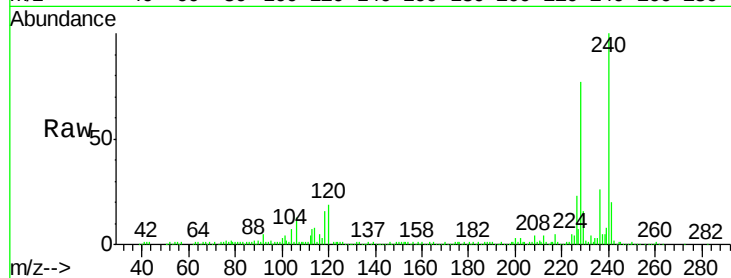
Tgt Ion:240 Resp: 287890

Ion Ratio Lower Upper

240 100

120 18.7 10.6 16.0#

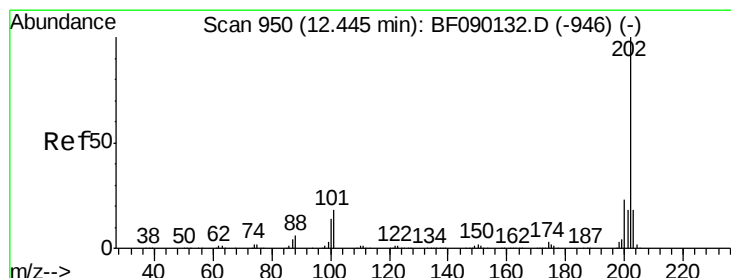
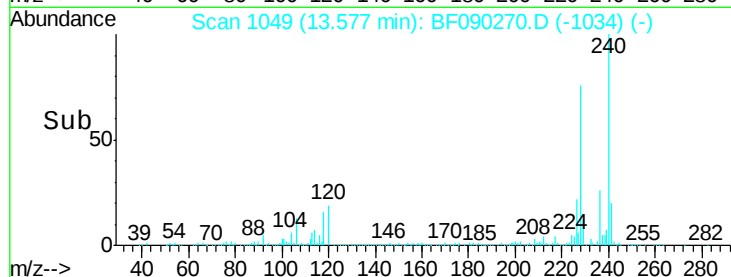
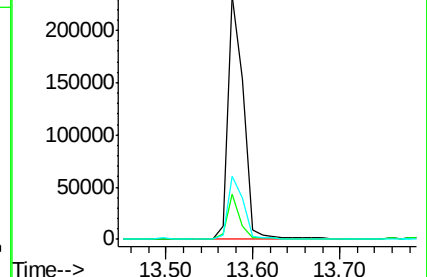
236 26.0 21.6 32.4



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

Pyrene

Concen: 25.99 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

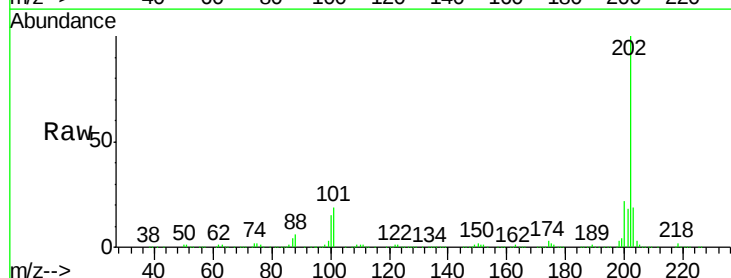
Tgt Ion:202 Resp: 512031

Ion Ratio Lower Upper

202 100

200 21.7 17.9 26.9

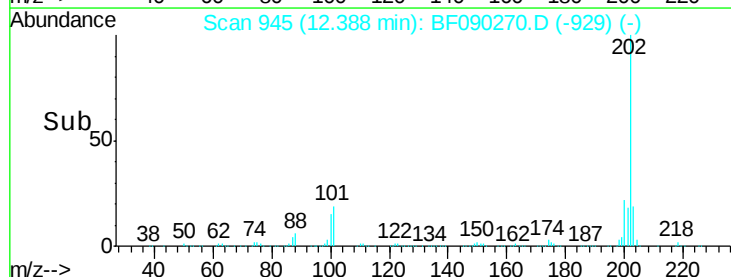
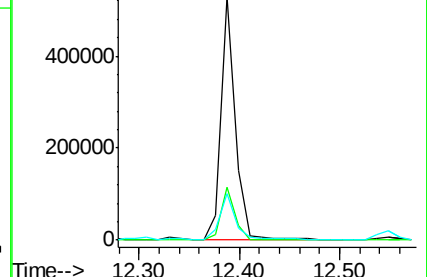
203 19.1 14.2 21.4

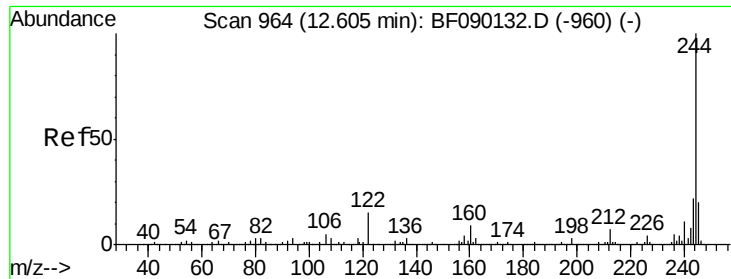


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

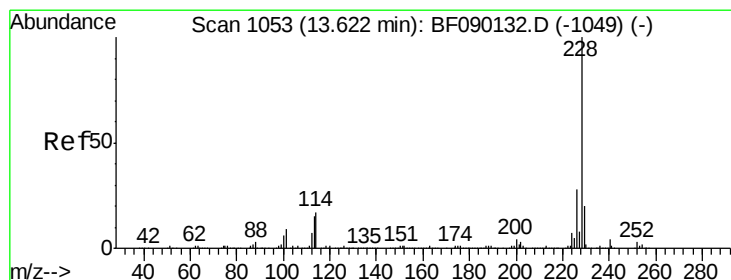
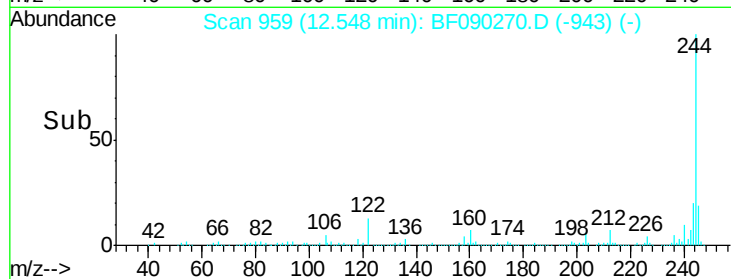
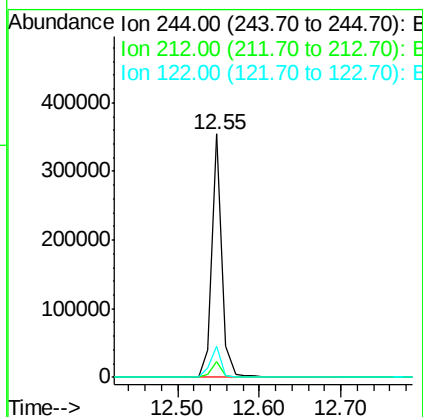
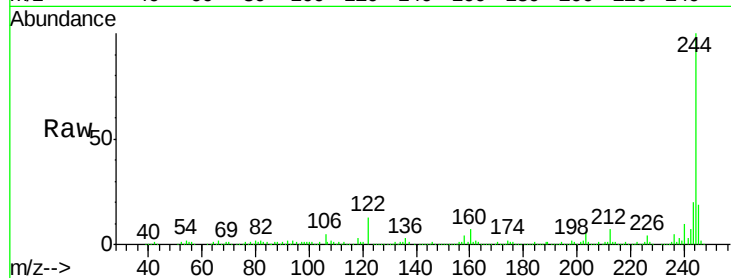




#78
 Terphenyl-d14
 Concen: 27.64 ng
 RT: 12.55 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

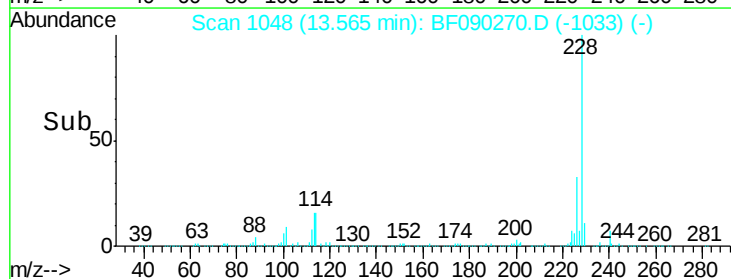
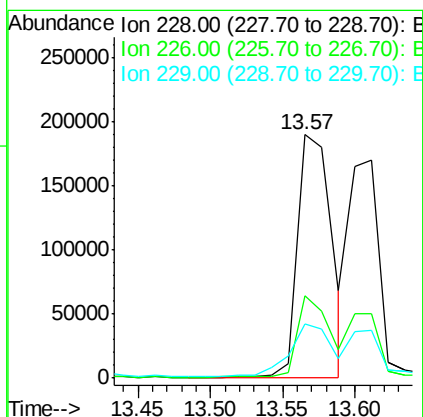
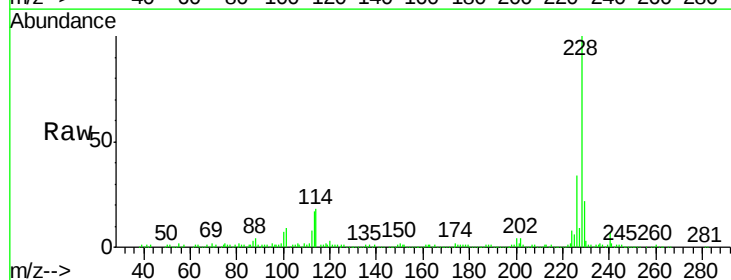
Instrument :
 BNA_F
 ClientSampleId :
 S-5-1-LOC-5(0-5)

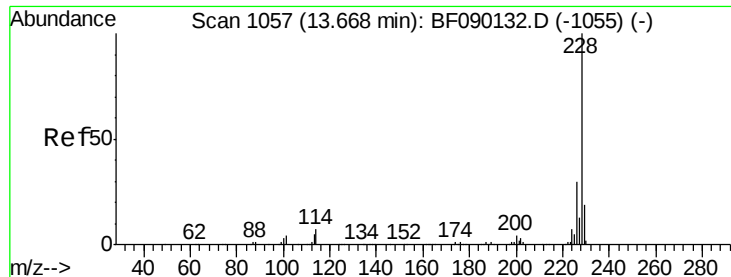
Tgt Ion:244 Resp: 313426
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.8
 122 12.8 9.4 14.0



#80
 Benzo(a)anthracene
 Concen: 20.01 ng
 RT: 13.57 min Scan# 1048
 Delta R.T. -0.02 min
 Lab File: BF090270.D
 Acq: 27 Sep 2016 23:37

Tgt Ion:228 Resp: 309852
 Ion Ratio Lower Upper
 228 100
 226 34.1 22.0 33.0#
 229 22.4 16.2 24.2





#82

Chrysene

Concen: 20.54 ng

RT: 13.57 min Scan# 1048

Delta R.T. -0.06 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

S-5-1-LOC-5(0-5)

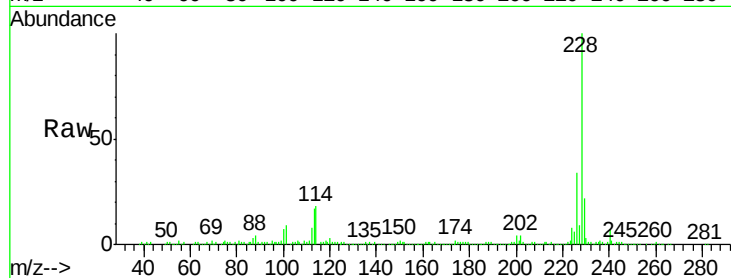
Tgt Ion:228 Resp: 309852

Ion Ratio Lower Upper

228 100

226 34.1 24.6 37.0

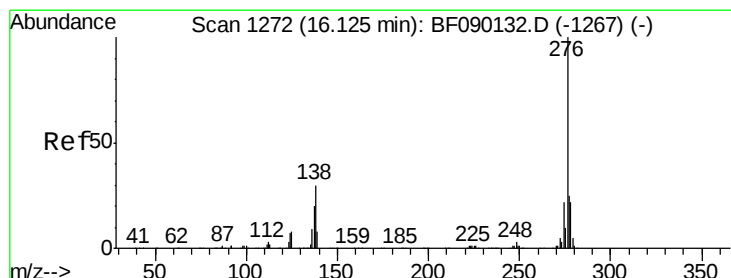
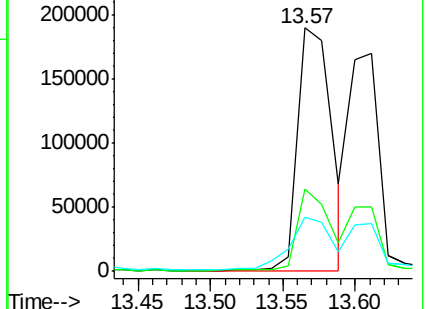
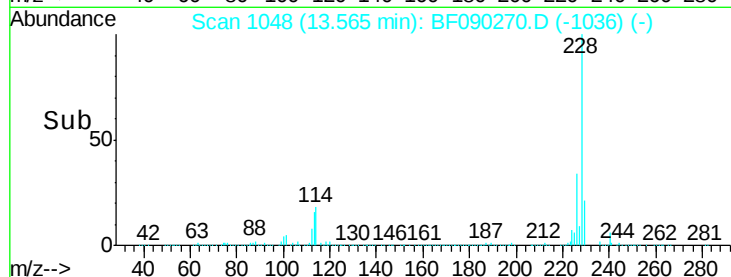
229 22.4 16.2 24.4



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: 9.79 ng

RT: 16.05 min Scan# 1265

Delta R.T. -0.01 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

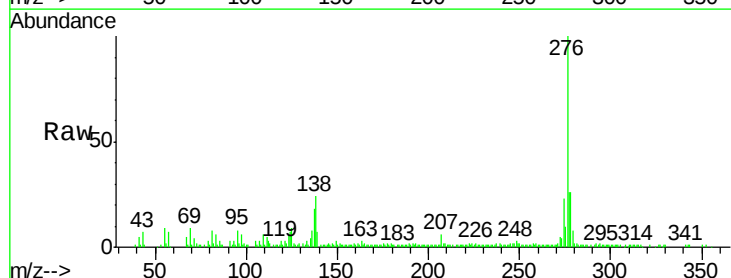
Tgt Ion:276 Resp: 119382

Ion Ratio Lower Upper

276 100

138 27.4 25.9 38.9

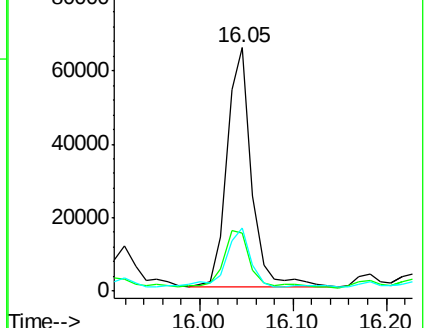
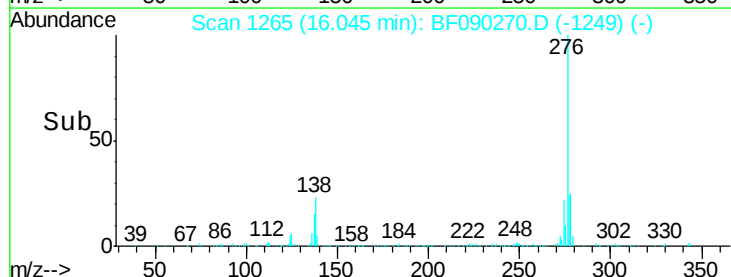
277 25.4 19.9 29.9

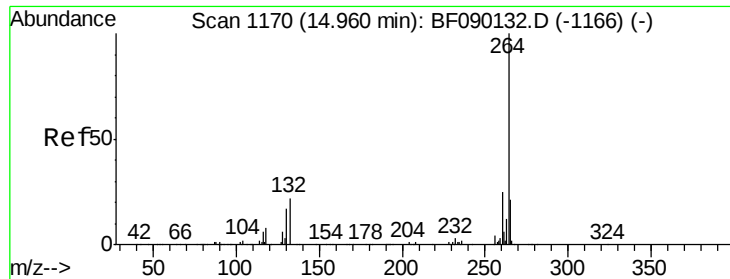


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

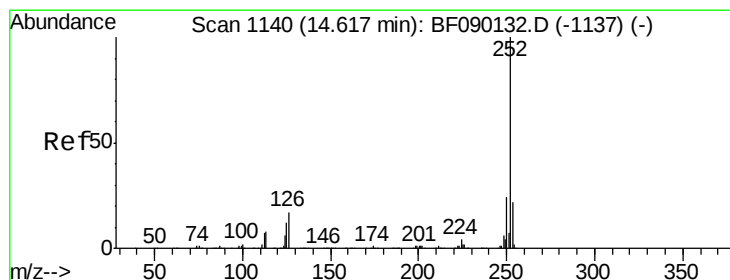
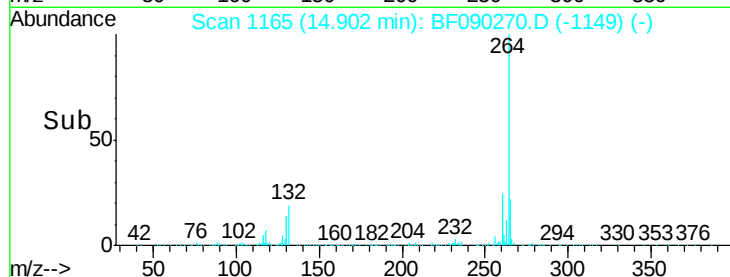
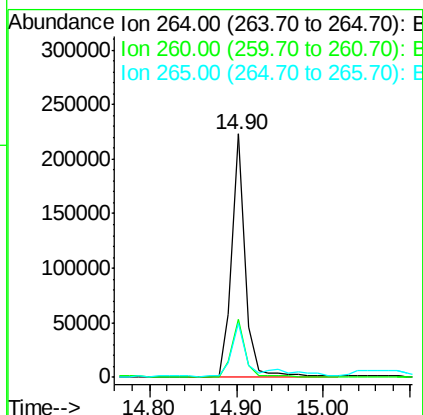
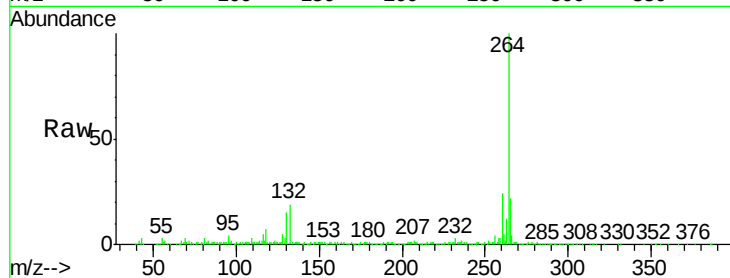




#86
Perylene-d12
Concen: 20.00 ng
RT: 14.90 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF090270.D
Acq: 27 Sep 2016 23:37

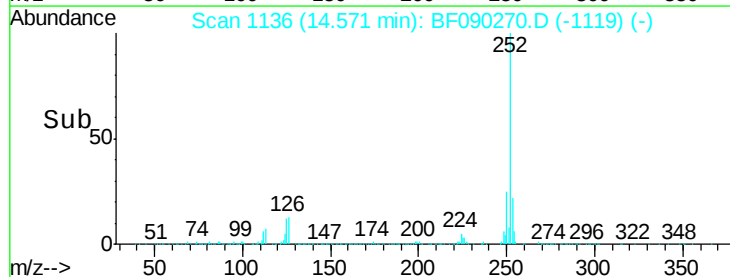
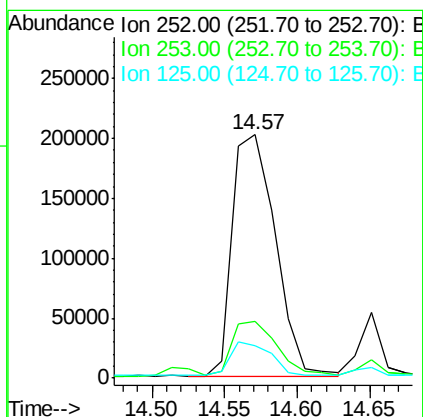
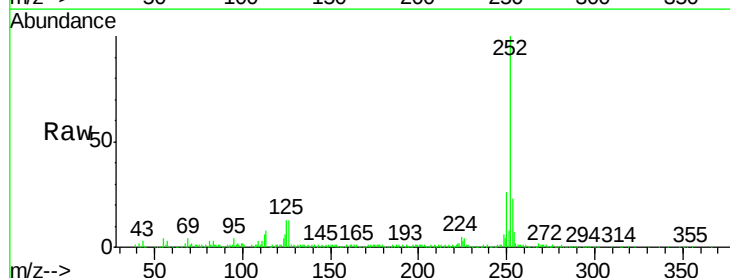
Instrument :
BNA_F
ClientSampleId :
S-5-1-LOC-5(0-5)

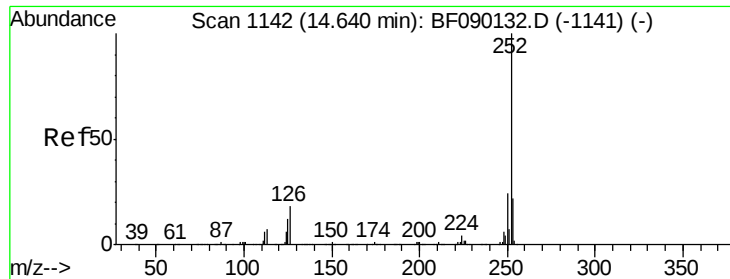
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.4	17.0	25.4



#87
Benzo(b)fluoranthene
Concen: 31.47 ng
RT: 14.57 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF090270.D
Acq: 27 Sep 2016 23:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	13.1	12.7	19.1





#88

Benzo(k)fluoranthene

Concen: 33.53 ng

RT: 14.57 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

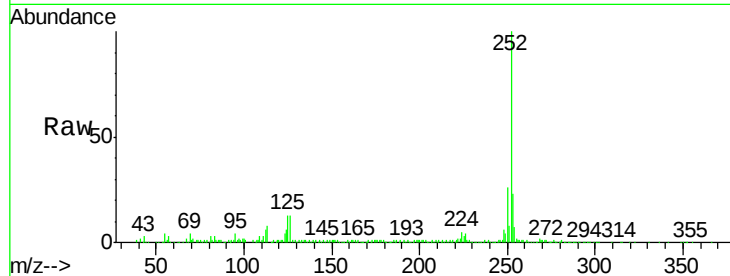
Instrument :

BNA_F

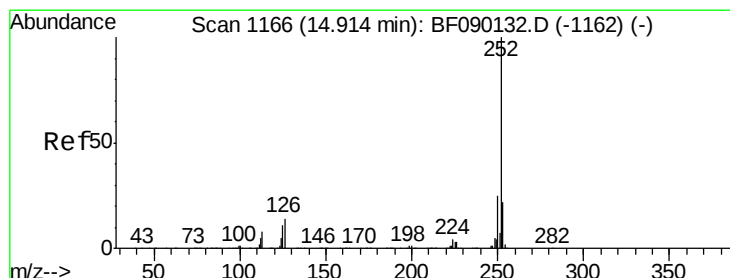
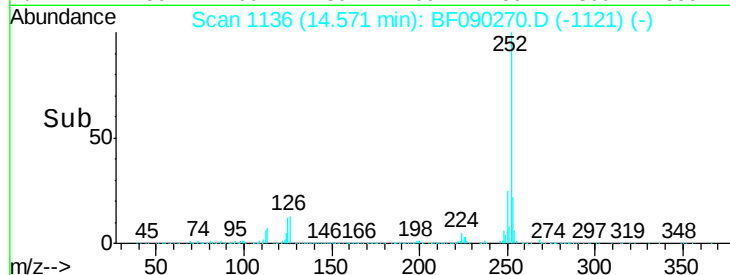
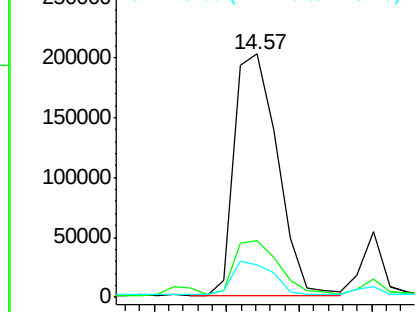
ClientSampleId :

S-5-1-LOC-5(0-5)

Tgt Ion:252 Resp: 413625
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.8 26.8
 125 13.1 7.8 11.6#



Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 253.00 (252.70 to 253.70): E
 Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 17.33 ng

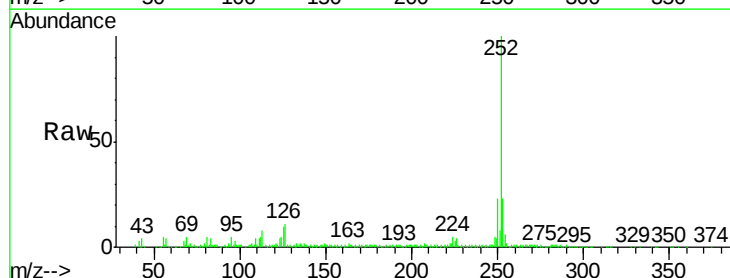
RT: 14.86 min Scan# 1161

Delta R.T. -0.01 min

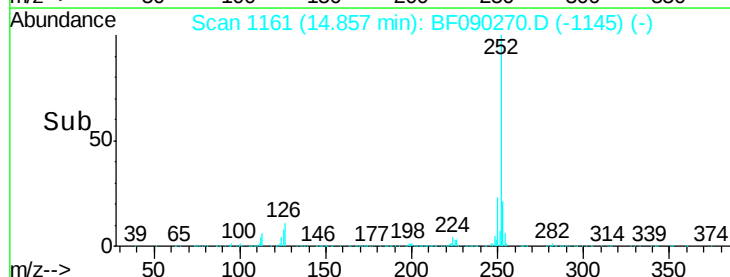
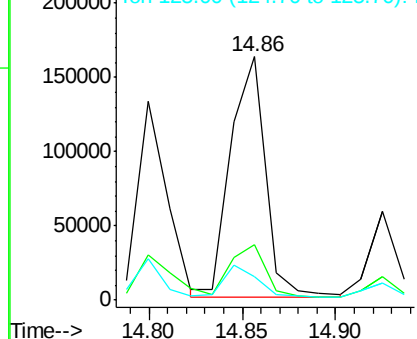
Lab File: BF090270.D

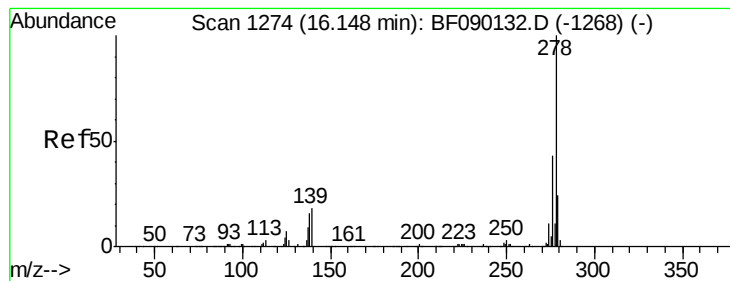
Acq: 27 Sep 2016 23:37

Tgt Ion:252 Resp: 214329
 Ion Ratio Lower Upper
 252 100
 253 22.7 17.4 26.0
 125 9.7 7.7 11.5



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: 2.59 ng

RT: 16.18 min Scan# 1277

Delta R.T. 0.10 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

Instrument :

BNA_F

ClientSampleId :

S-5-1-LOC-5(0-5)

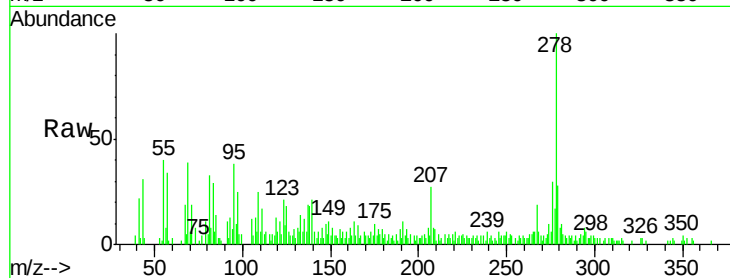
Tgt Ion:278 Resp: 24986

Ion Ratio Lower Upper

278 100

139 21.0 14.6 21.8

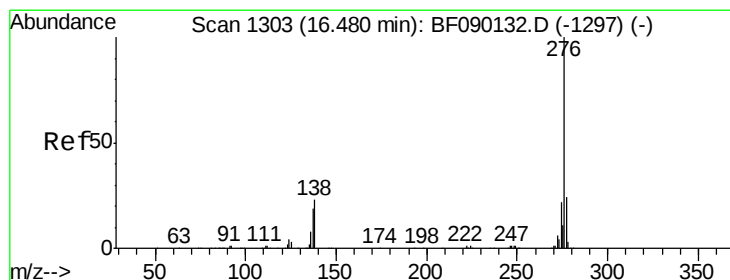
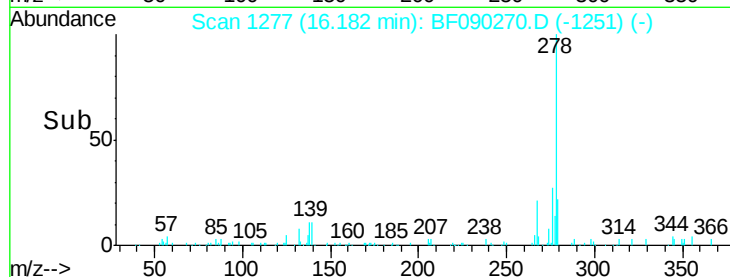
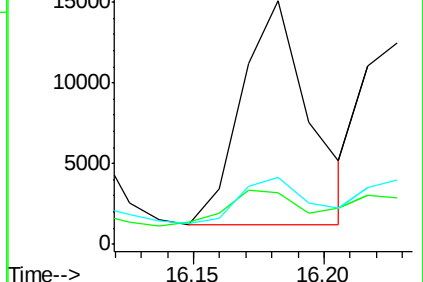
279 27.7 18.8 28.2



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.01 ng

RT: 16.38 min Scan# 1294

Delta R.T. -0.02 min

Lab File: BF090270.D

Acq: 27 Sep 2016 23:37

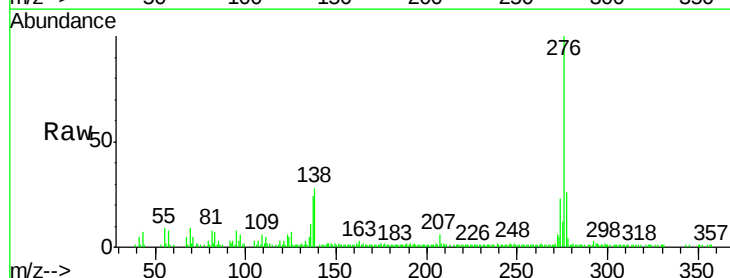
Tgt Ion:276 Resp: 103961

Ion Ratio Lower Upper

276 100

277 26.2 18.9 28.3

138 28.0 23.3 34.9



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

