

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071416\
 Data File : BF088994.D
 Acq On : 14 Jul 2016 19:18
 Operator : UM/SJ
 Sample : H3996-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B7-B2(0-5)C

Quant Time: Jul 15 01:17:42 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	62165	20.00	ng	-0.02
21) Naphthalene-d8	7.96	136	216571	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	95321	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	147956	20.00	ng	-0.03
75) Chrysene-d12	13.82	240	111068	20.00	ng	-0.03
86) Perylene-d12	15.18	264	96804	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.28	112	380941	91.84	ng	-0.01
7) Phenol-d6	6.34	99	542591	101.24	ng	-0.01
23) Nitrobenzene-d5	7.26	82	359087	86.89	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	69990	79.07	ng	-0.03
44) 2-Fluorobiphenyl	9.05	172	572185	94.82	ng	-0.02
78) Terphenyl-d14	12.78	244	343981	68.98	ng	-0.02

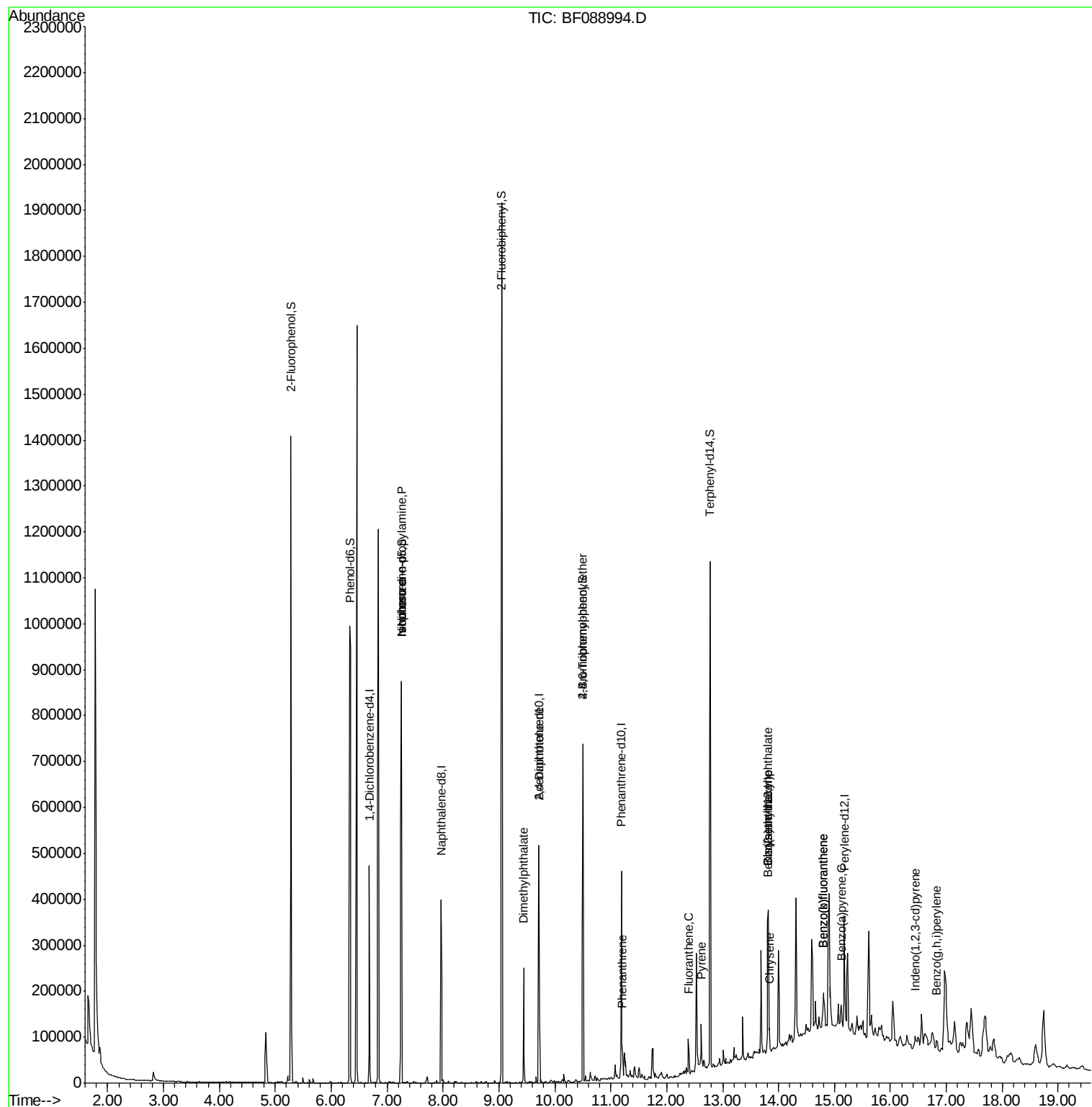
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.26	70	48589	13.50	ng	# 70
25) Isophorone	7.26	82	343066	44.81	ng	# 65
49) Dimethylphthalate	9.44	163	91987	13.55	ng	99
56) 2,4-Dinitrotoluene	9.71	165	12421	6.31	ng	# 36
66) 4-Bromophenyl-phenylether	10.50	248	6017	4.04	ng	# 1
70) Phenanthrene	11.21	178	16437	2.03	ng	99
74) Fluoranthene	12.39	202	35457	4.32	ng	96
77) Pyrene	12.62	202	32718	3.47	ng	99
80) Benzo(a)anthracene	13.81	228	20363	2.85	ng	93
82) Chrysene	13.84	228	20235	2.86	ng	97
83) Bis(2-ethylhexyl)phthalate	13.82	149	13147	2.74	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.45	276	14037	2.58	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	44195	7.28	ng	# 90
88) Benzo(k)fluoranthene	14.80	252	44195	8.36	ng	# 95
89) Benzo(a)pyrene	15.12	252	19450	3.78	ng	96
91) Benzo(g,h,i)perylene	16.83	276	14696	3.31	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 446

Delta R.T. -0.02 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

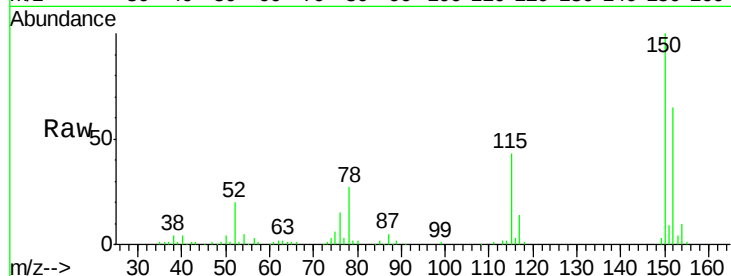
Tgt Ion:152 Resp: 62165

Ion Ratio Lower Upper

152 100

150 155.0 123.8 185.6

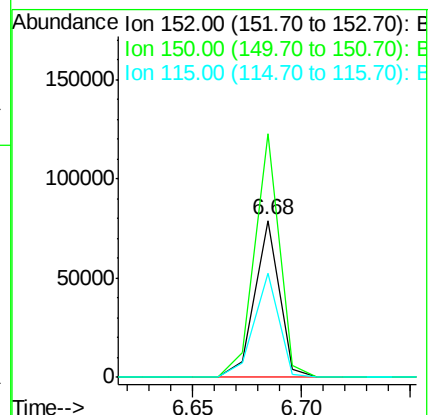
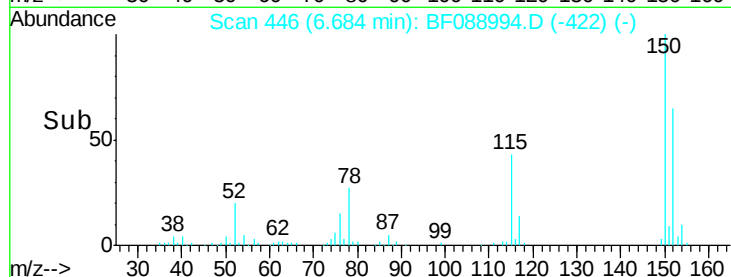
115 66.5 39.6 59.4#



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: 91.84 ng

RT: 5.28 min Scan# 323

Delta R.T. -0.01 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

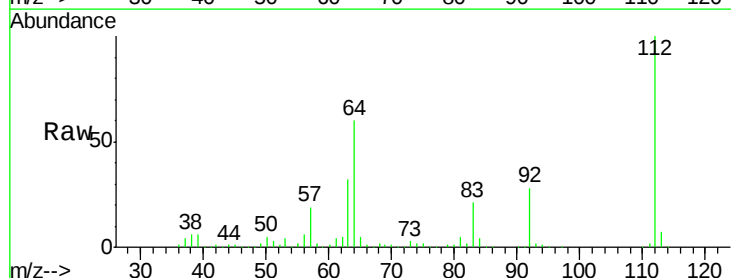
Tgt Ion:112 Resp: 380941

Ion Ratio Lower Upper

112 100

64 59.8 42.2 63.2

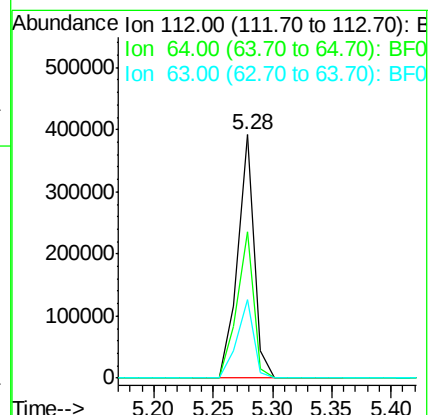
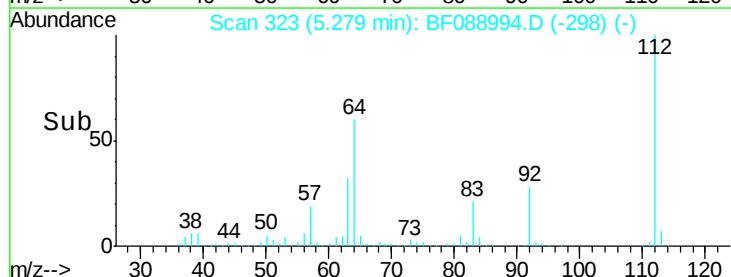
63 32.3 21.8 32.8



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: 101.24 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

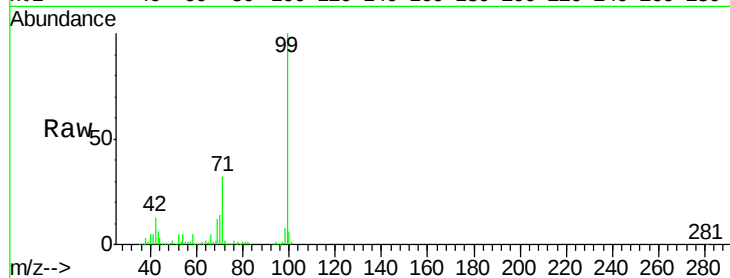
Tgt Ion: 99 Resp: 542591

Ion Ratio Lower Upper

99 100

42 12.8 12.2 18.2

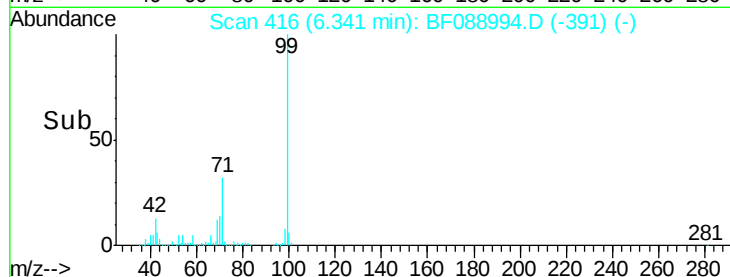
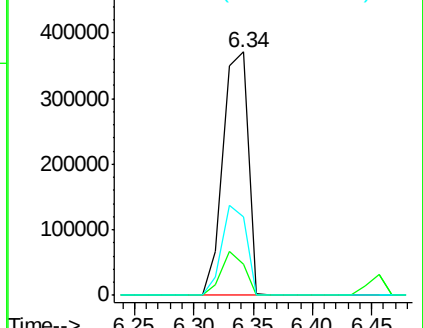
71 32.5 23.4 35.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.50 ng

RT: 7.26 min Scan# 496

Delta R.T. 0.11 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Tgt Ion: 70 Resp: 48589

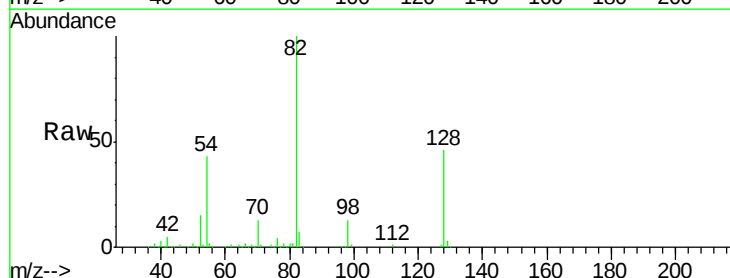
Ion Ratio Lower Upper

70 100

42 40.3 49.6 74.4#

101 0.0 7.1 10.7#

130 2.2 15.4 23.2#

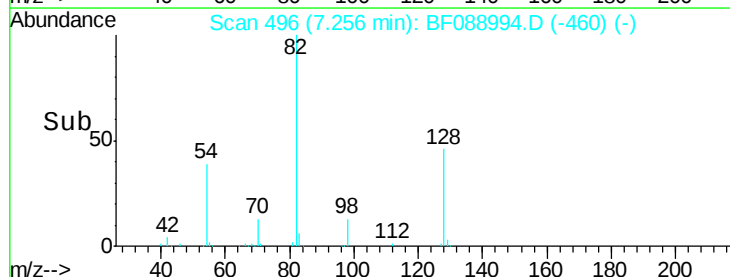
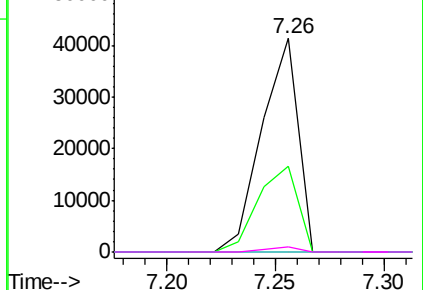


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

Tgt Ion: 136 Resp: 216571

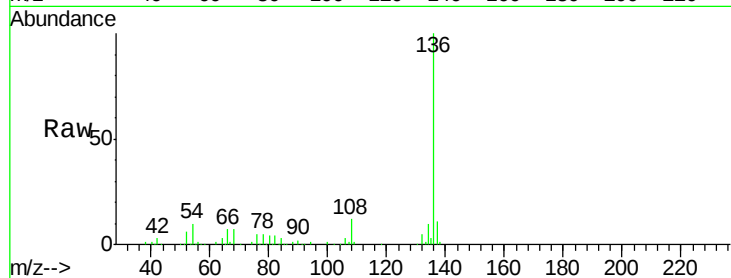
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 9.7 6.6 10.0

68 7.0 5.1 7.7

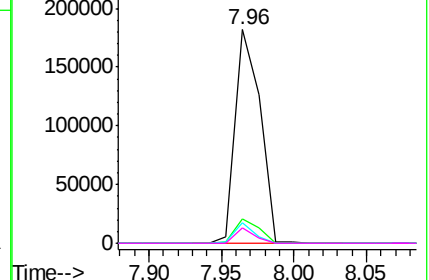
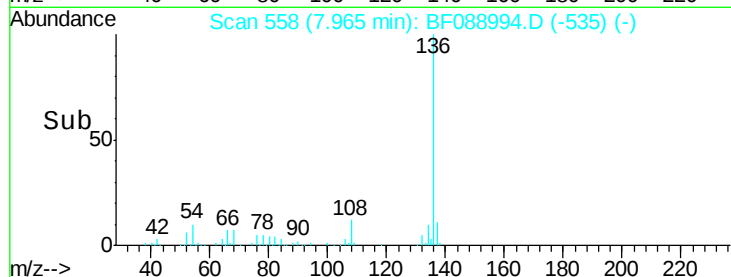


Abundance Ion 136.00 (135.70 to 136.70): E

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: 86.89 ng

RT: 7.26 min Scan# 496

Delta R.T. -0.02 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

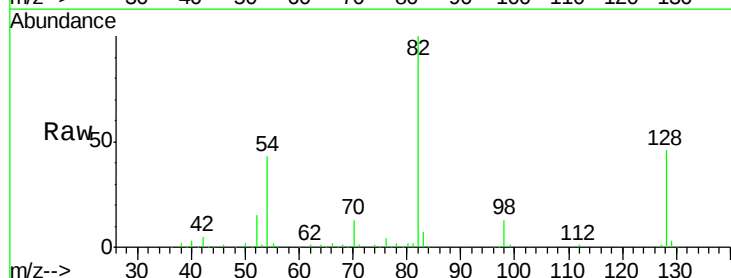
Tgt Ion: 82 Resp: 359087

Ion Ratio Lower Upper

82 100

128 45.9 35.9 53.9

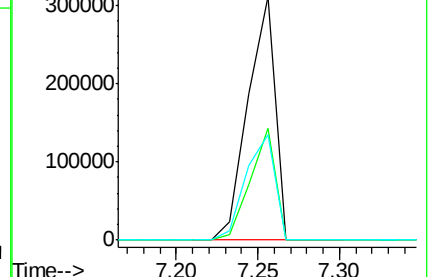
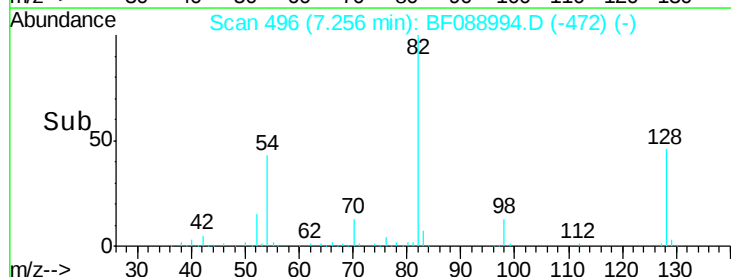
54 43.3 40.9 61.3

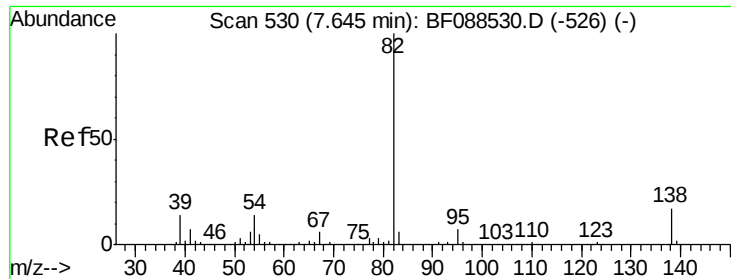


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 44.81 ng

RT: 7.26 min Scan# 496

Delta R.T. -0.29 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

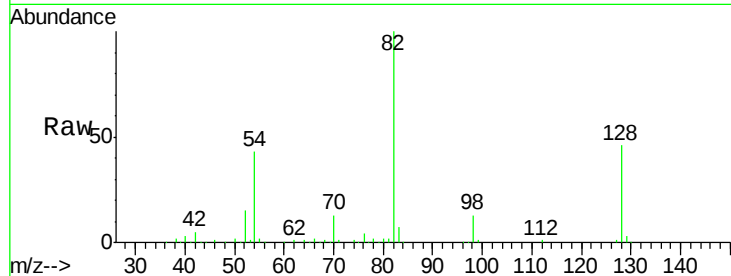
Tgt Ion: 82 Resp: 343066

Ion Ratio Lower Upper

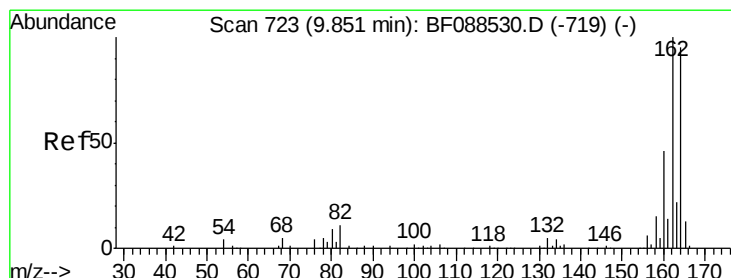
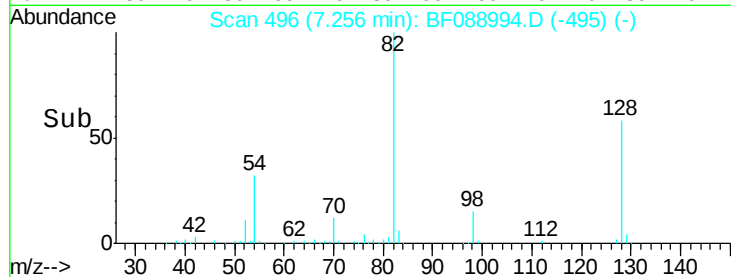
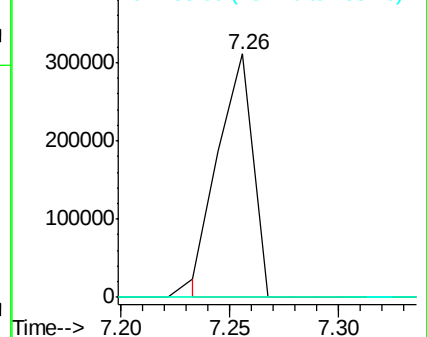
82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.03 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

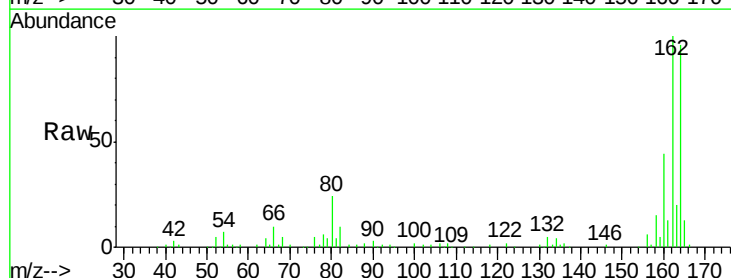
Tgt Ion: 164 Resp: 95321

Ion Ratio Lower Upper

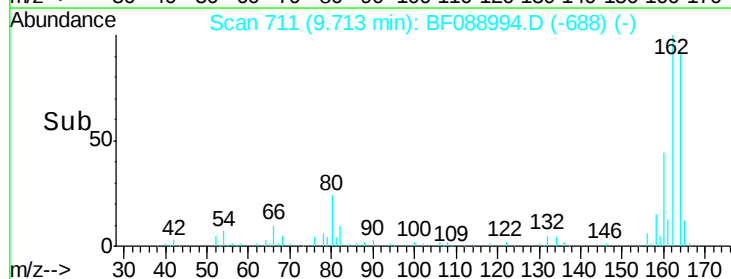
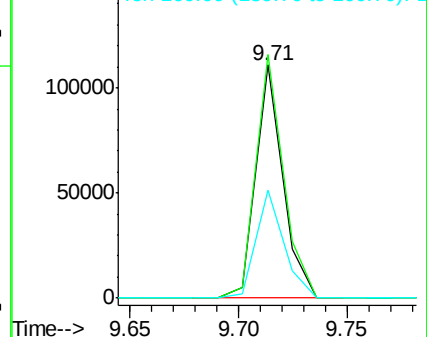
164 100

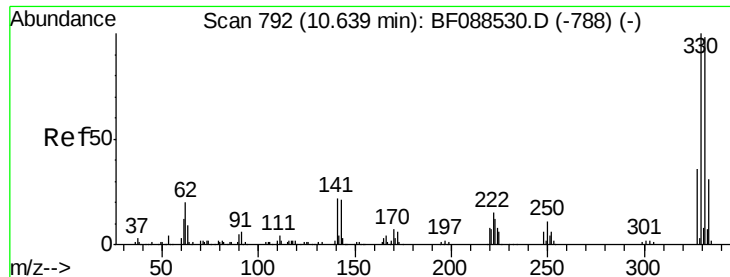
162 104.5 85.4 128.2

160 46.2 39.5 59.3



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

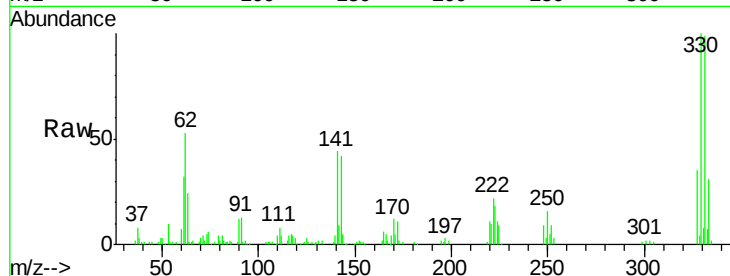




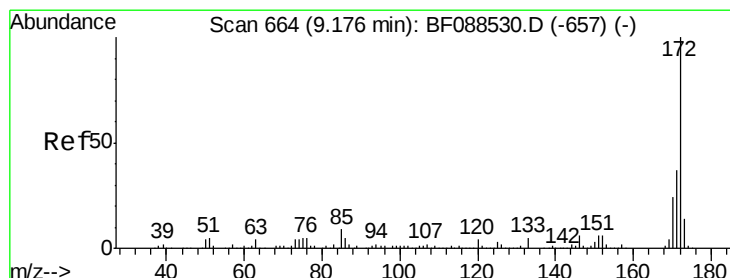
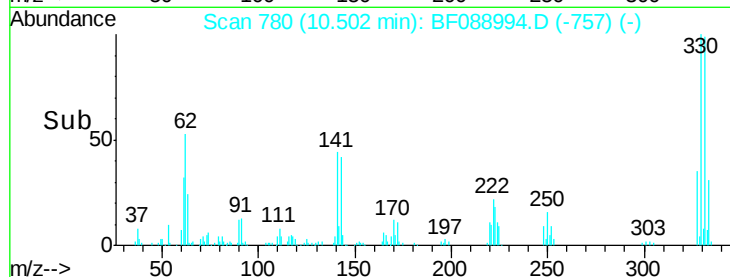
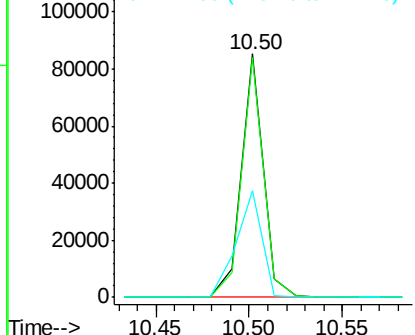
#41
 2,4,6-Tribromophenol
 Concen: 79.07 ng
 RT: 10.50 min Scan# 780
 Delta R.T. -0.03 min
 Lab File: BF088994.D
 Acq: 14 Jul 2016 19:18

Instrument :
 BNA_F
 ClientSampleId :
 B7-B2(0-5)C

Tgt Ion:330 Resp: 69990
 Ion Ratio Lower Upper
 330 100
 332 97.8 0.0 0.0#
 141 51.6 0.0 0.0#

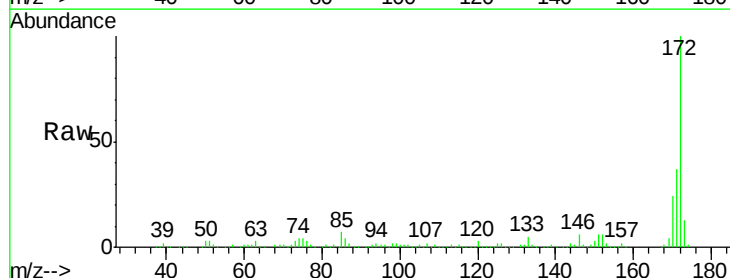


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

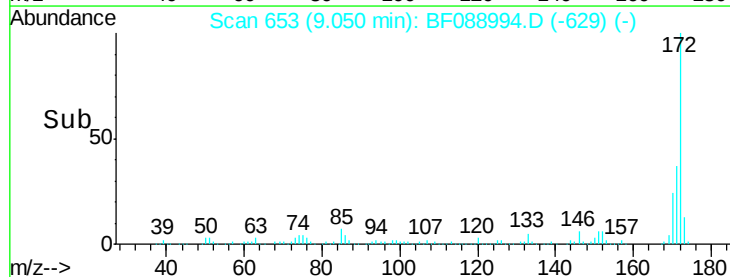
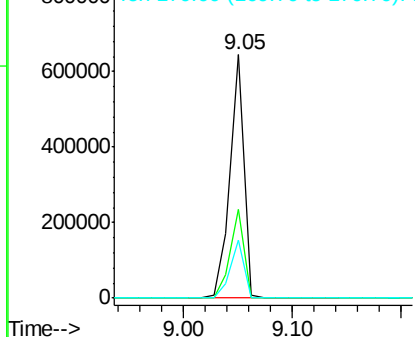


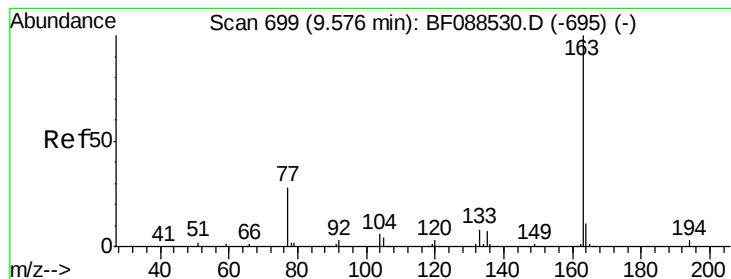
#44
 2-Fluorobiphenyl
 Concen: 94.82 ng
 RT: 9.05 min Scan# 653
 Delta R.T. -0.02 min
 Lab File: BF088994.D
 Acq: 14 Jul 2016 19:18

Tgt Ion:172 Resp: 572185
 Ion Ratio Lower Upper
 172 100
 171 36.5 28.6 43.0
 170 23.9 19.2 28.8



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





#49

Dimethylphthalate

Concen: 13.55 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.05 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

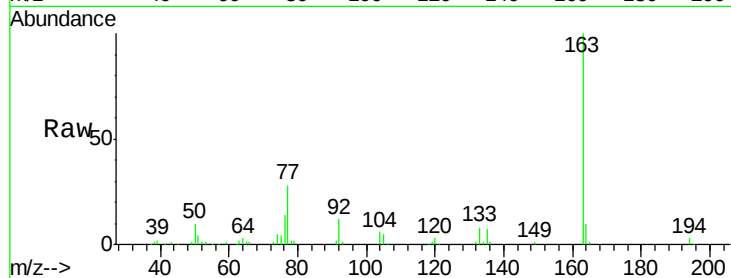
Tgt Ion:163 Resp: 91987

Ion Ratio Lower Upper

163 100

194 3.1 2.8 4.2

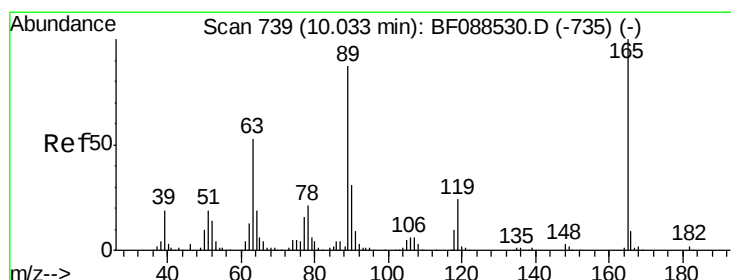
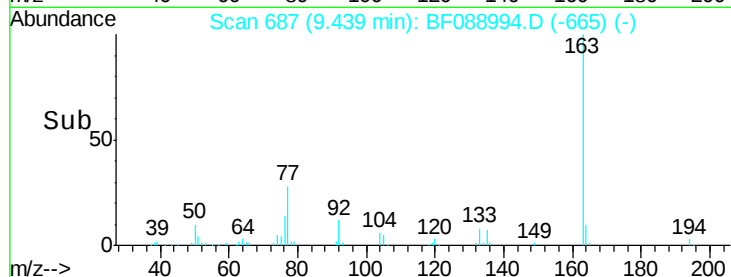
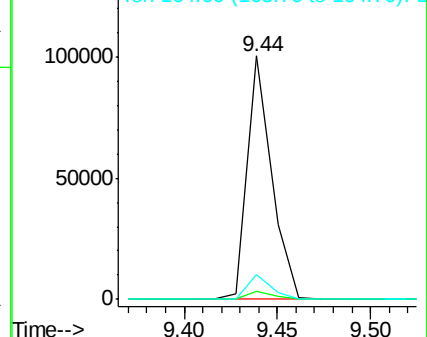
164 10.2 8.3 12.5



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



#56

2,4-Dinitrotoluene

Concen: 6.31 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.23 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Tgt Ion:165 Resp: 12421

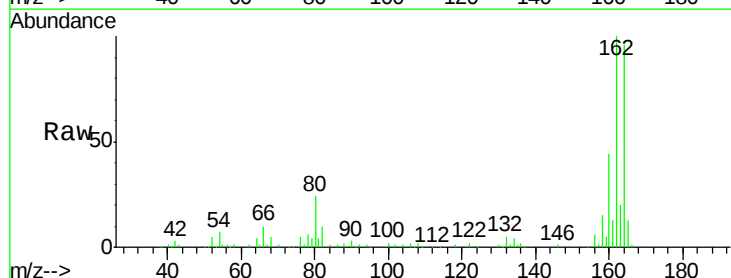
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

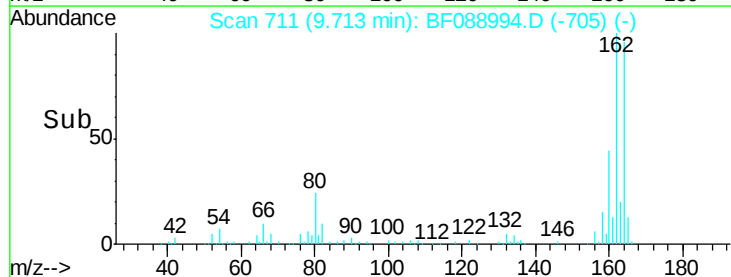
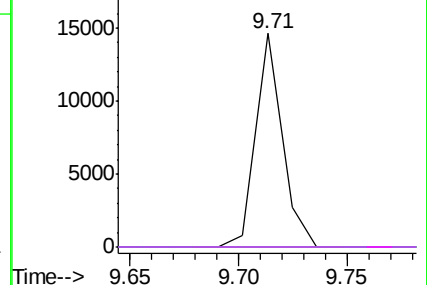


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

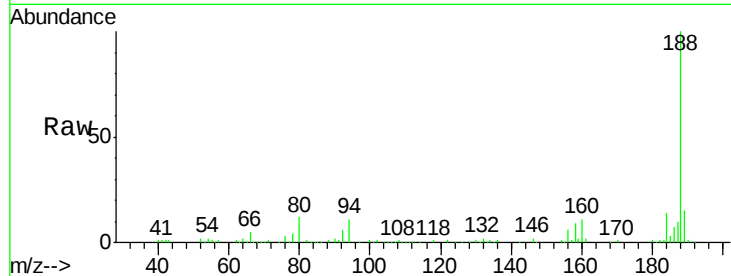




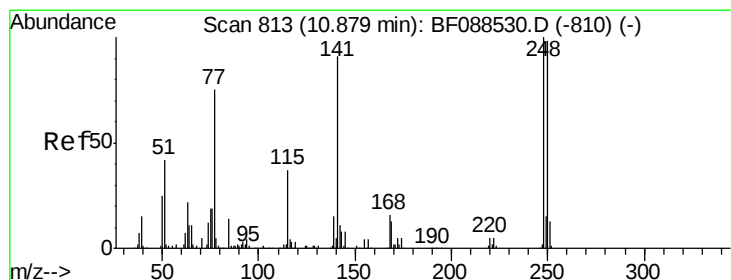
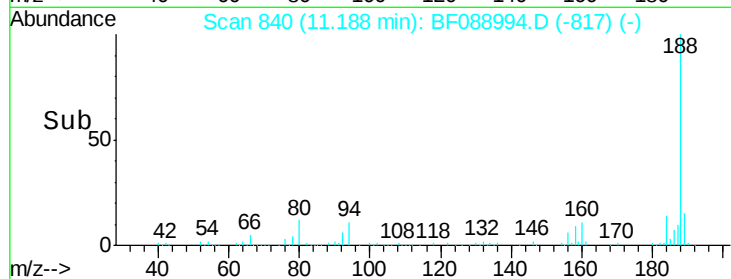
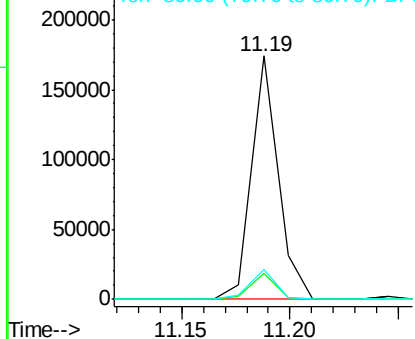
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF088994.D
Acq: 14 Jul 2016 19:18

Instrument :
BNA_F
ClientSampleId :
B7-B2(0-5)C

Tgt Ion:188 Resp: 147956
Ion Ratio Lower Upper
188 100
94 10.7 9.0 13.6
80 12.2 10.0 15.0

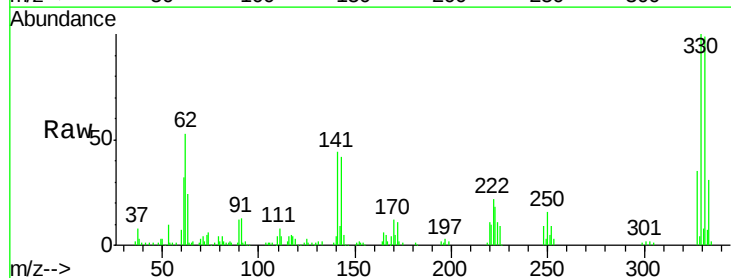


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

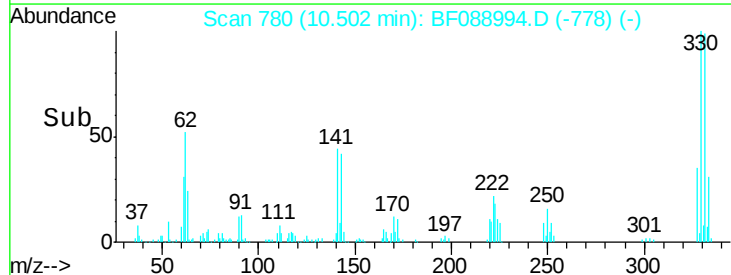
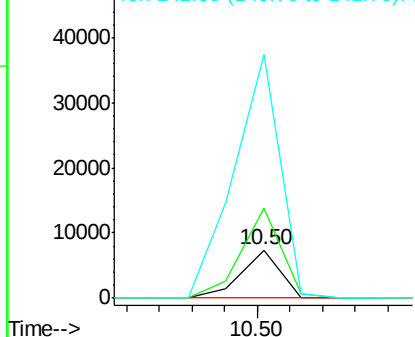


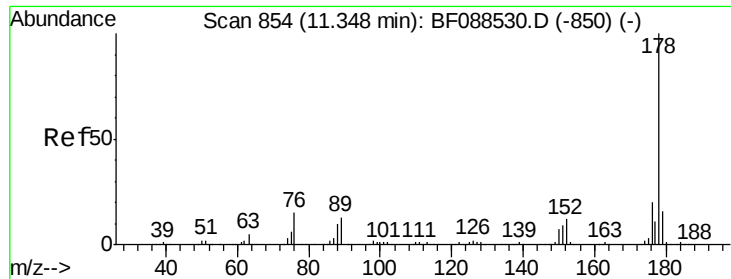
#66
4-Bromophenyl-phenylether
Concen: 4.04 ng
RT: 10.50 min Scan# 780
Delta R.T. -0.27 min
Lab File: BF088994.D
Acq: 14 Jul 2016 19:18

Tgt Ion:248 Resp: 6017
Ion Ratio Lower Upper
248 100
250 189.0 77.1 115.7#
141 509.3 50.6 76.0#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

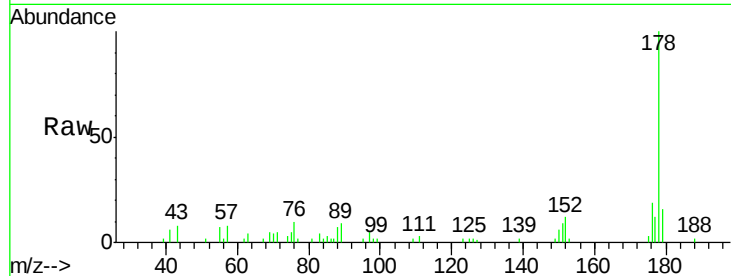




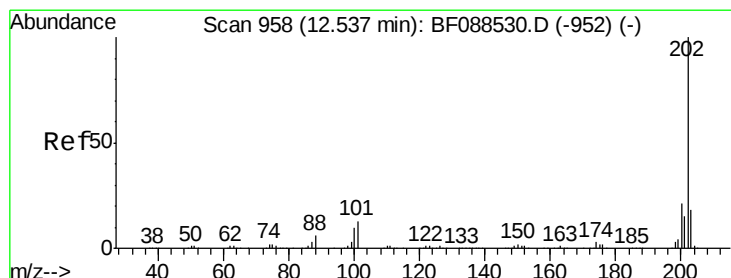
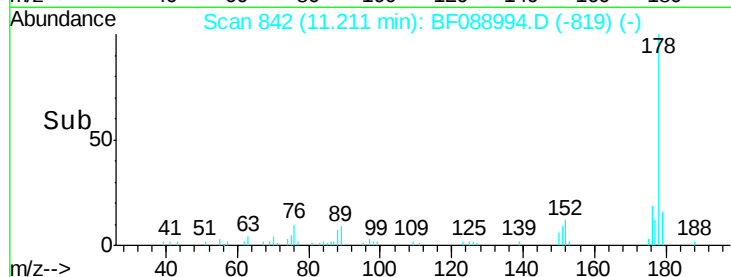
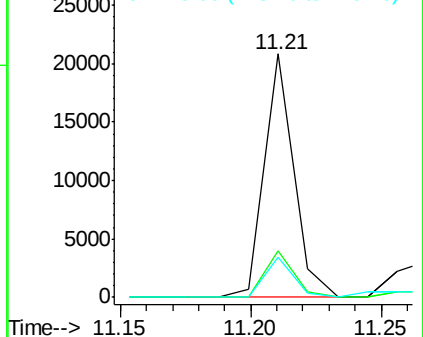
#70
Phenanthrene
Concen: 2.03 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF088994.D
Acq: 14 Jul 2016 19:18

Instrument :
BNA_F
ClientSampleId :
B7-B2(0-5)C

Tgt Ion:178 Resp: 16437
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.6
179 16.3 13.0 19.4

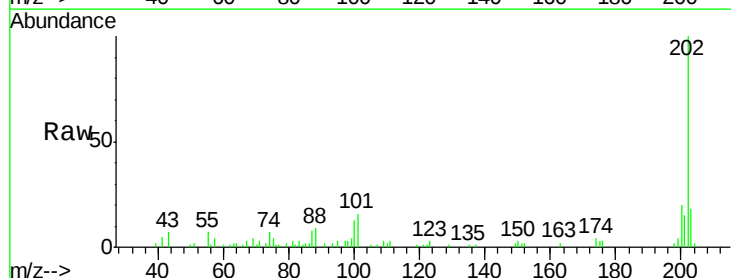


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

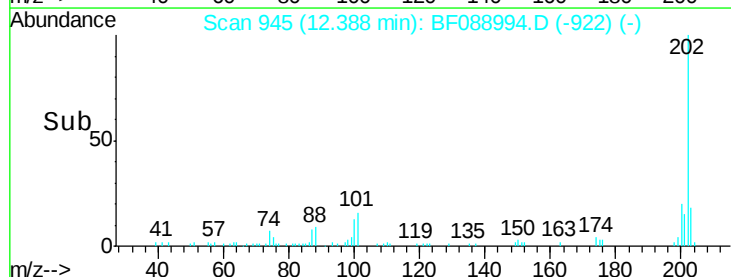
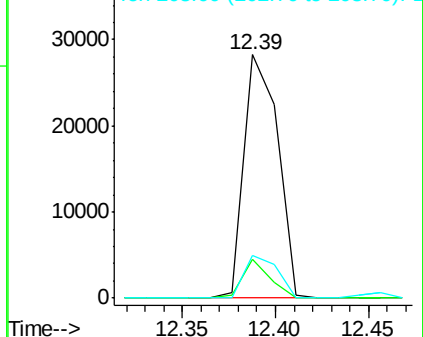


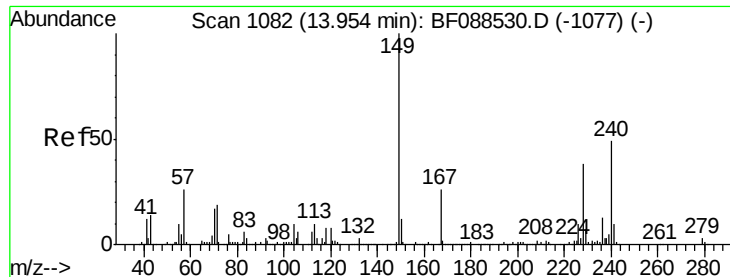
#74
Fluoranthene
Concen: 4.32 ng
RT: 12.39 min Scan# 945
Delta R.T. -0.03 min
Lab File: BF088994.D
Acq: 14 Jul 2016 19:18

Tgt Ion:202 Resp: 35457
Ion Ratio Lower Upper
202 100
101 16.2 0.0 33.1
203 17.7 0.0 38.1



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: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

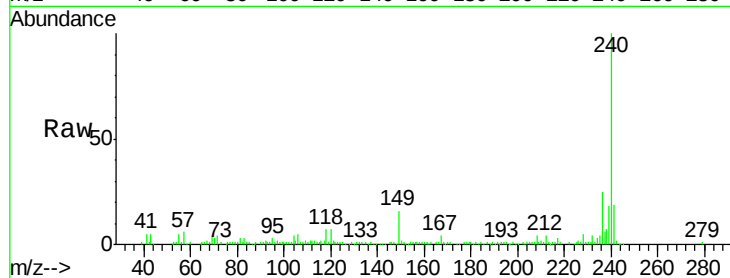
Tgt Ion:240 Resp: 111068

Ion Ratio Lower Upper

240 100

120 7.3 6.8 10.2

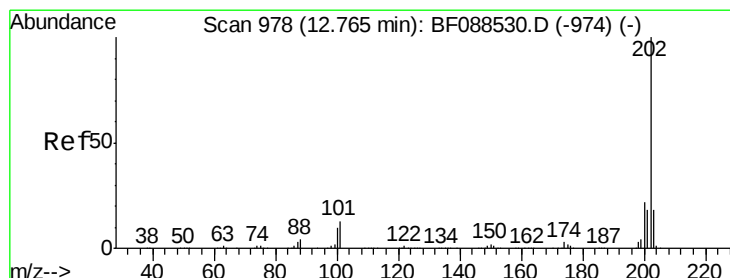
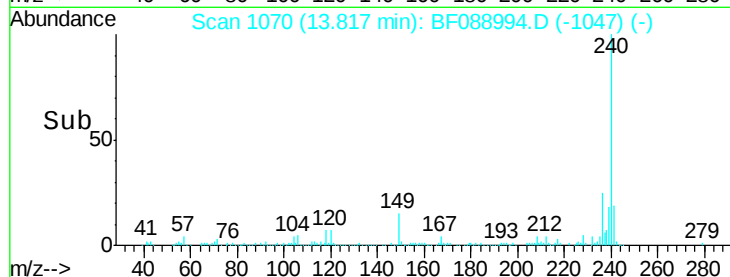
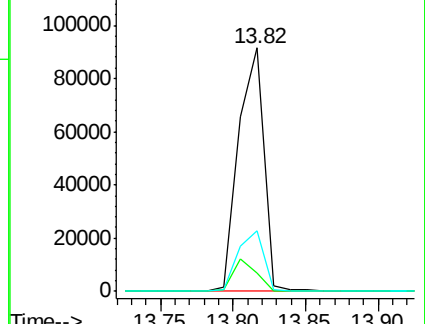
236 25.1 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 3.47 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

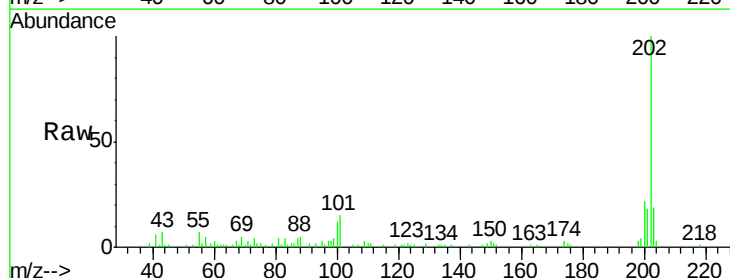
Tgt Ion:202 Resp: 32718

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

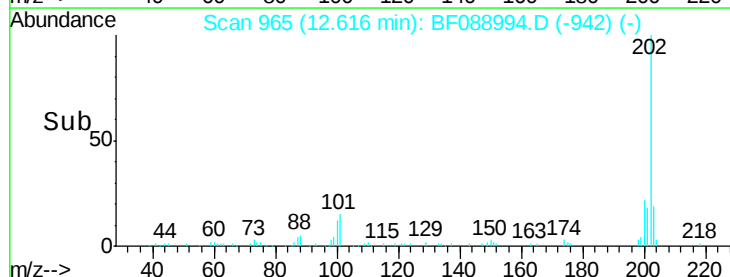
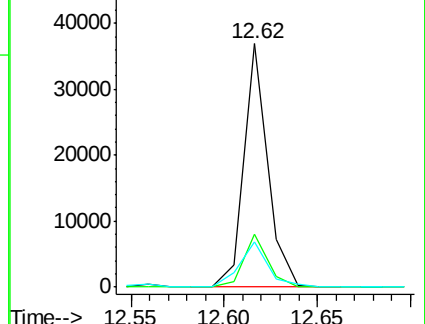
203 18.6 14.5 21.7

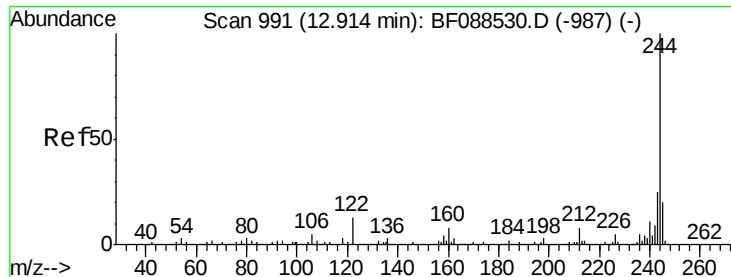


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

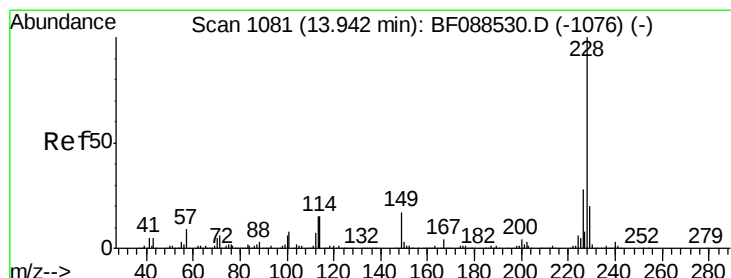
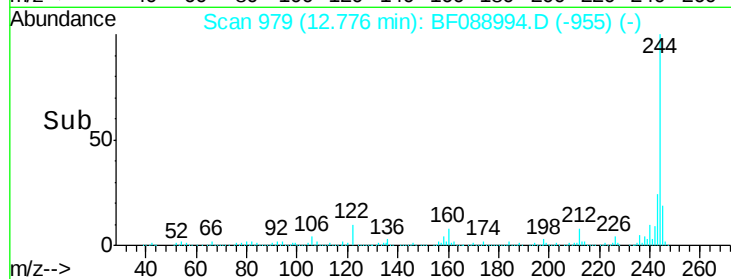
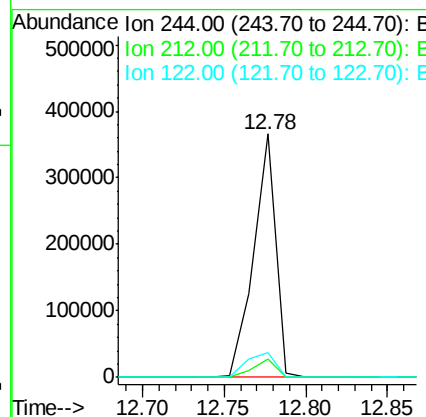
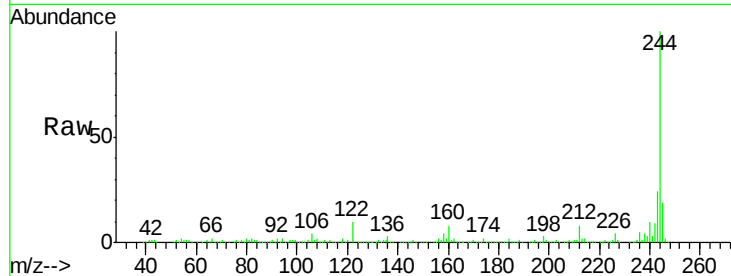




#78
 Terphenyl-d14
 Concen: 68.98 ng
 RT: 12.78 min Scan# 979
 Delta R.T. -0.02 min
 Lab File: BF088994.D
 Acq: 14 Jul 2016 19:18

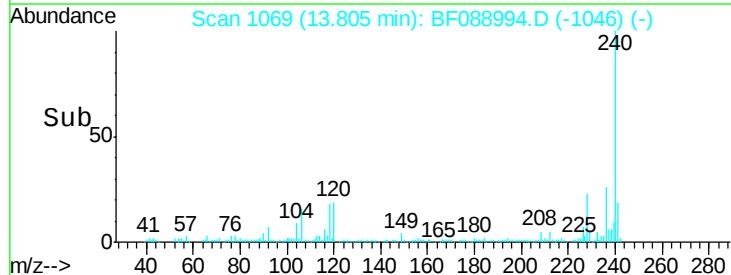
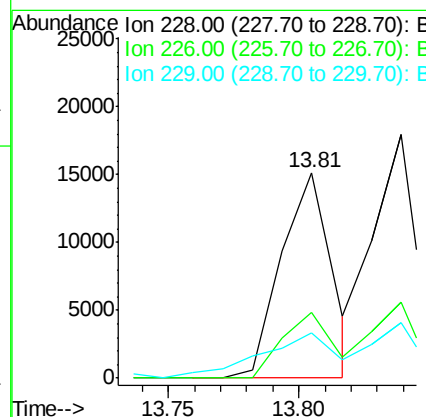
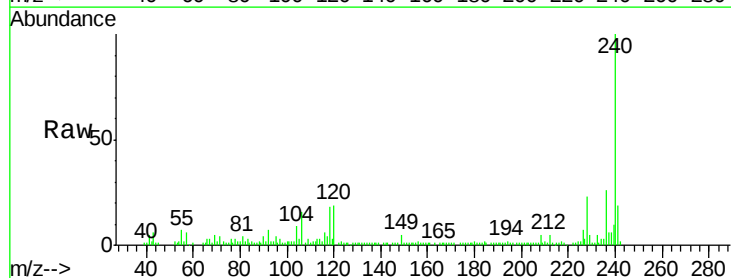
Instrument :
 BNA_F
 ClientSampleId :
 B7-B2(0-5)C

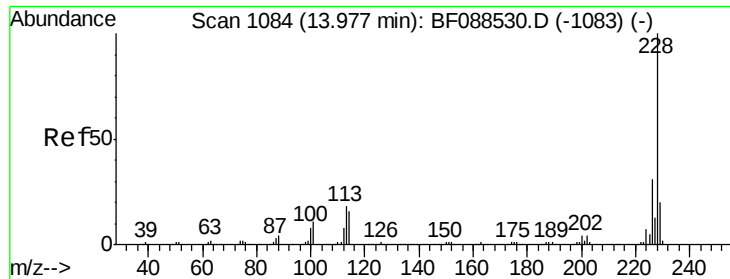
Tgt Ion:244 Resp: 343981
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.0 9.0
 122 10.1 11.2 16.8#



#80
 Benzo(a)anthracene
 Concen: 2.85 ng
 RT: 13.81 min Scan# 1069
 Delta R.T. -0.03 min
 Lab File: BF088994.D
 Acq: 14 Jul 2016 19:18

Tgt Ion:228 Resp: 20363
 Ion Ratio Lower Upper
 228 100
 226 32.2 22.3 33.5
 229 22.1 16.0 24.0





#82

Chrysene

Concen: 2.86 ng

RT: 13.84 min Scan# 1072

Delta R.T. -0.03 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

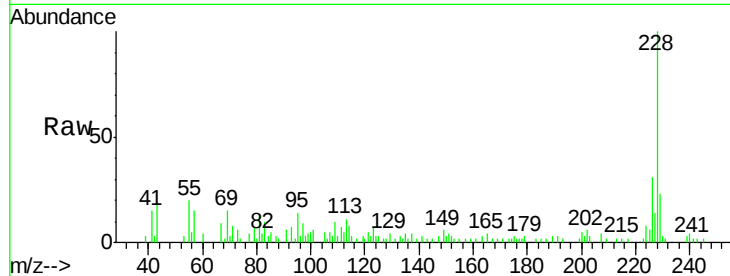
Tgt Ion:228 Resp: 20235

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.2

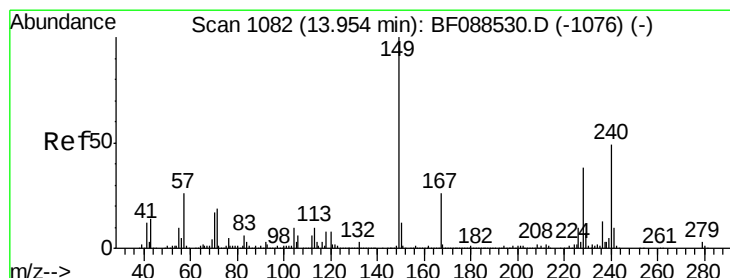
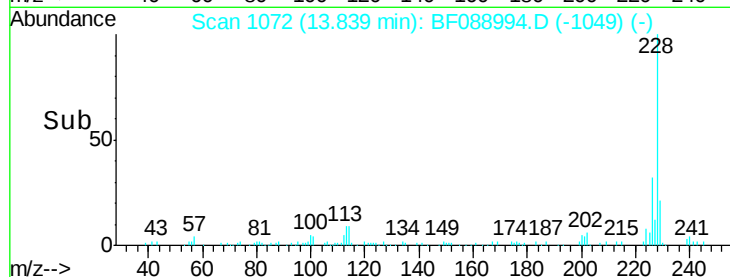
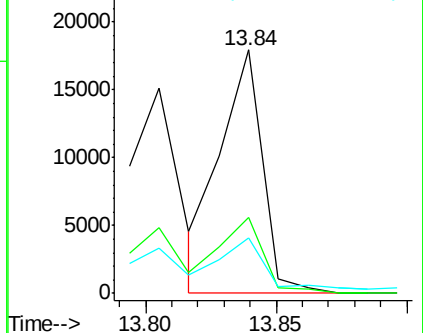
229 22.7 16.3 24.5



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.74 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

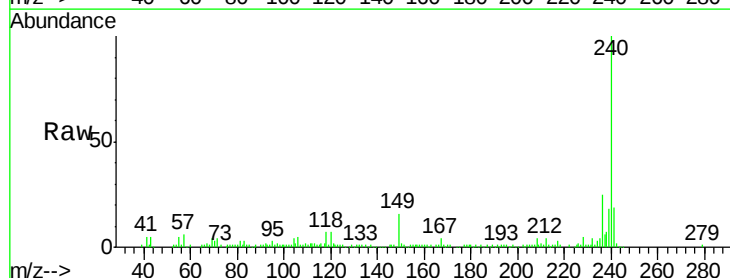
Tgt Ion:149 Resp: 13147

Ion Ratio Lower Upper

149 100

167 26.0 20.5 30.7

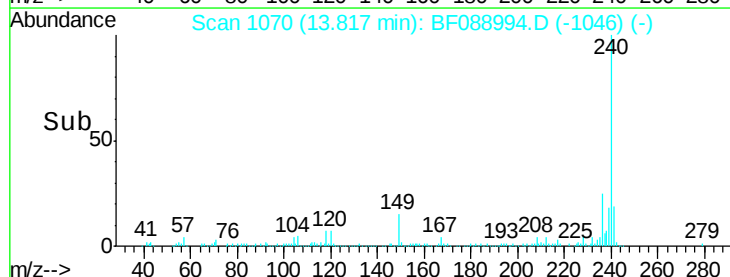
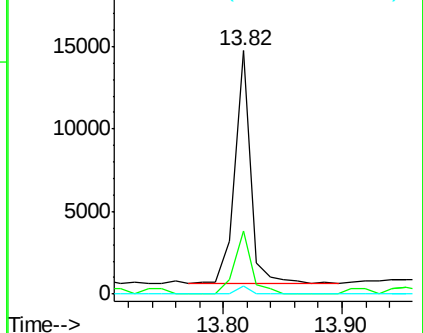
279 3.5 2.0 3.0#

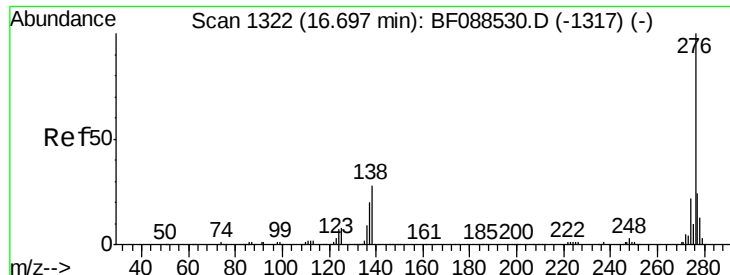


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

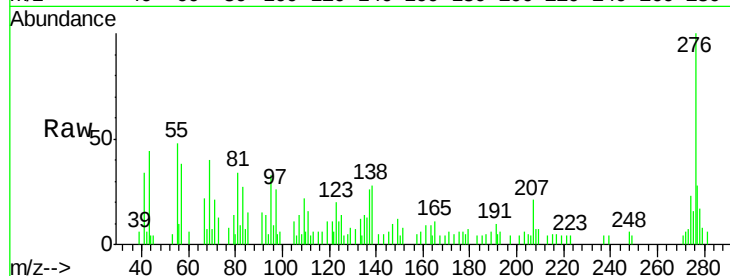




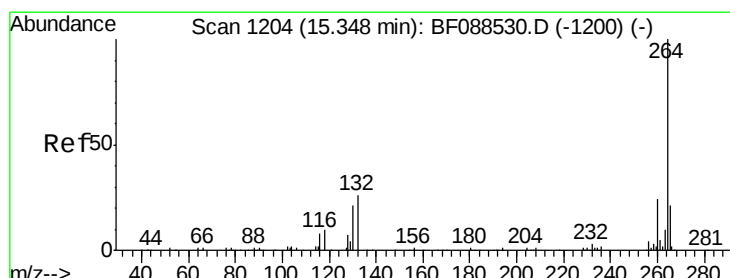
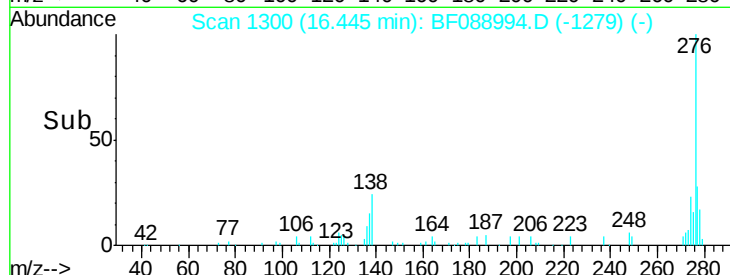
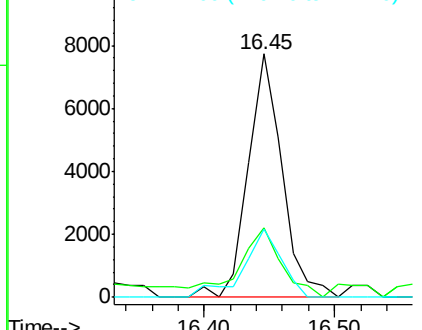
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.58 ng
RT: 16.45 min Scan# 1300
Delta R.T. -0.06 min
Lab File: BF088994.D
Acq: 14 Jul 2016 19:18

Instrument :
BNA_F
ClientSampleId :
B7-B2(0-5)C

Tgt Ion: 276 Resp: 14037
Ion Ratio Lower Upper
276 100
138 35.5 0.0 0.0#
277 31.1 0.0 0.0#

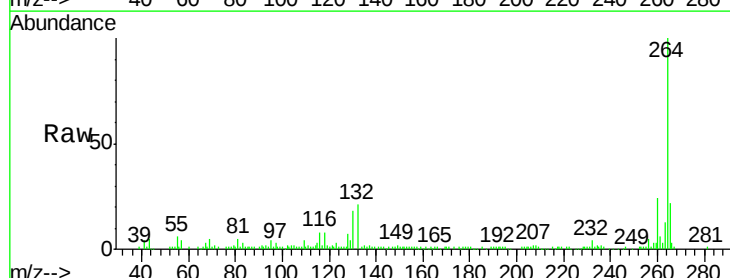


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

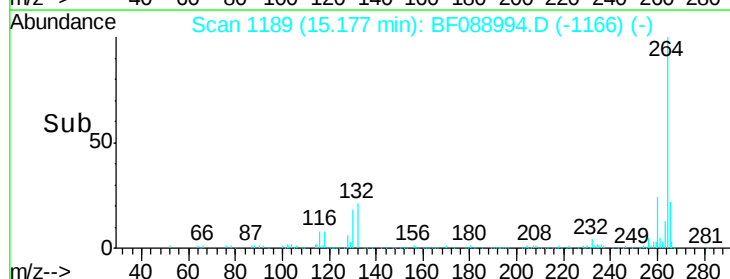
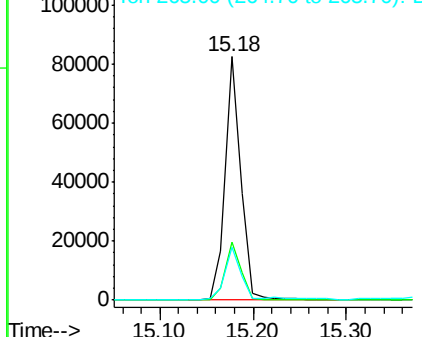


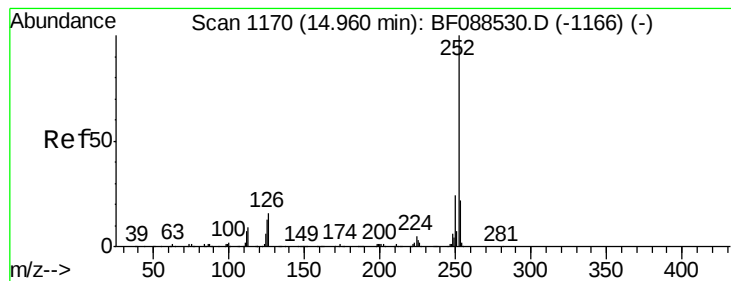
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.03 min
Lab File: BF088994.D
Acq: 14 Jul 2016 19:18

Tgt Ion: 264 Resp: 96804
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 21.9 16.9 25.3



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: 7.28 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

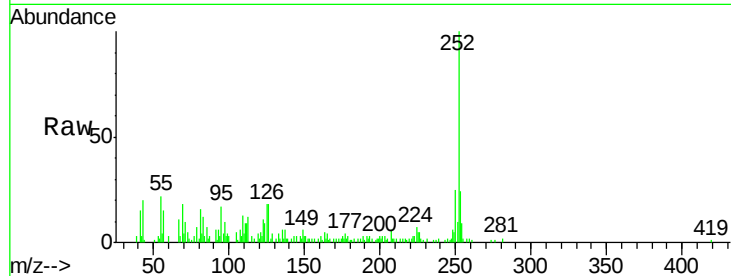
Tgt Ion:252 Resp: 44195

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.2

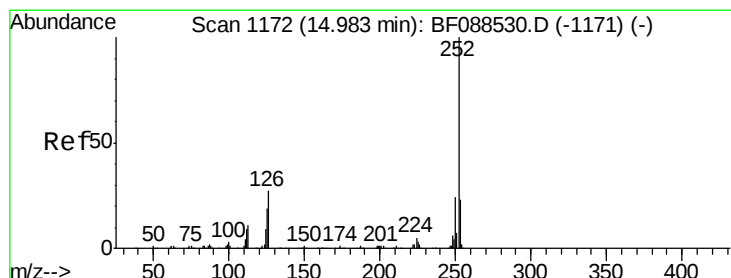
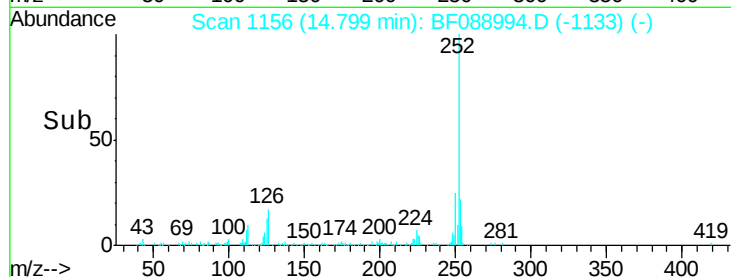
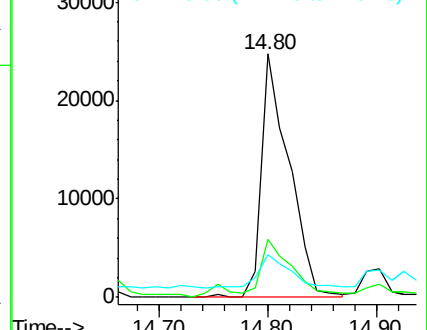
125 17.6 7.1 10.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 8.36 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.07 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

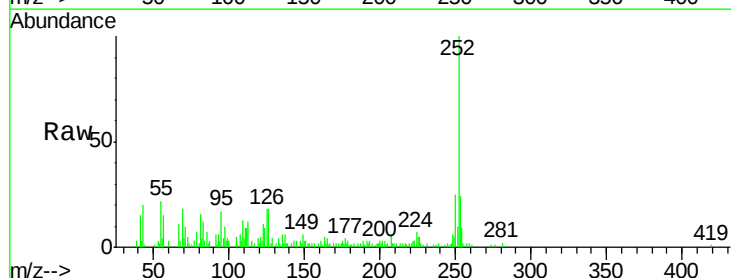
Tgt Ion:252 Resp: 44195

Ion Ratio Lower Upper

252 100

253 23.9 18.0 27.0

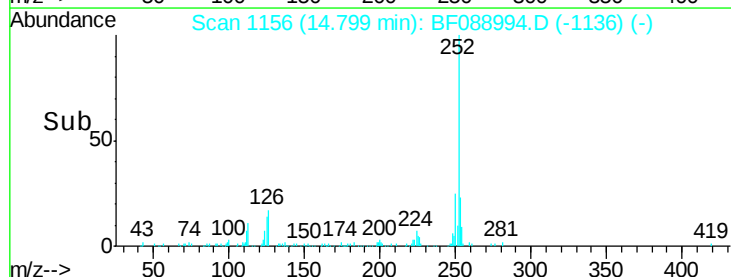
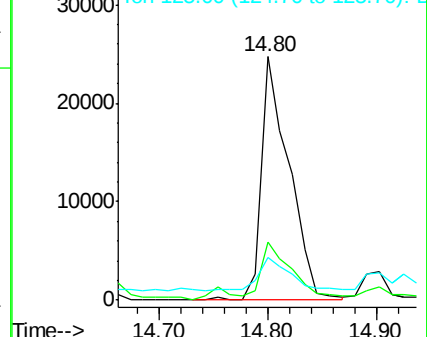
125 17.6 11.2 16.8#

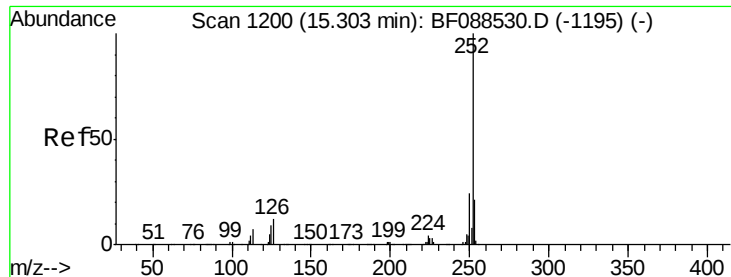


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.78 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.05 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

Instrument :

BNA_F

ClientSampleId :

B7-B2(0-5)C

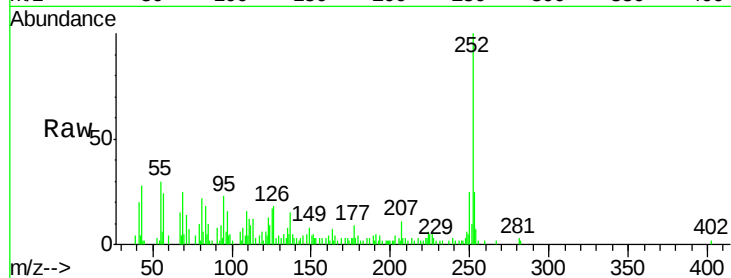
Tgt Ion:252 Resp: 19450

Ion Ratio Lower Upper

252 100

253 24.9 17.9 26.9

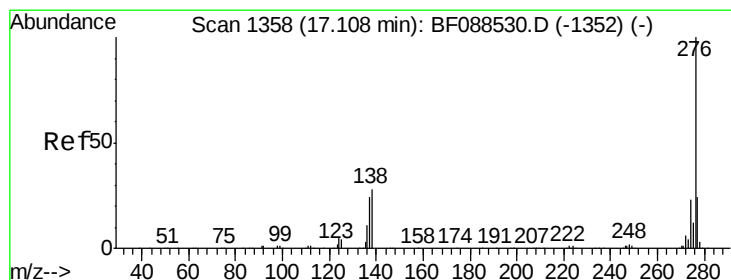
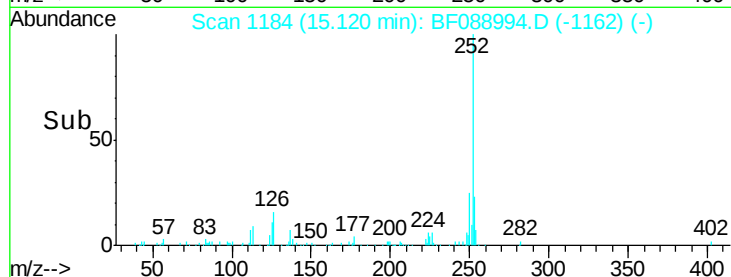
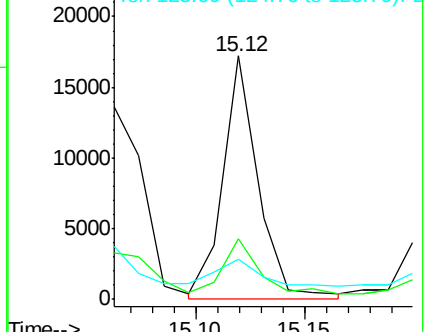
125 16.7 12.5 18.7



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



#91

Benzo(g,h,i)perylene

Concen: 3.31 ng

RT: 16.83 min Scan# 1334

Delta R.T. -0.06 min

Lab File: BF088994.D

Acq: 14 Jul 2016 19:18

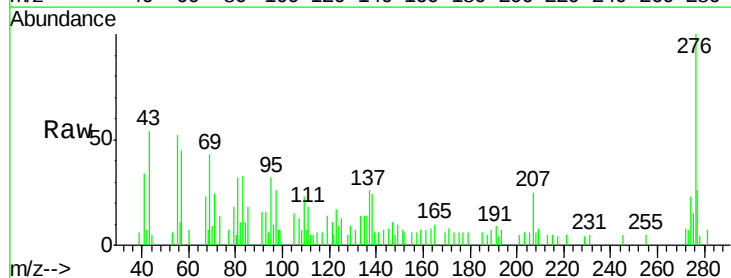
Tgt Ion:276 Resp: 14696

Ion Ratio Lower Upper

276 100

277 25.9 18.9 28.3

138 24.2 21.4 32.2



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

