

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061416\
 Data File : BF088009.D
 Acq On : 14 Jun 2016 20:28
 Operator : UM/SJ
 Sample : H3450-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S7-B2-(0-9)C

Quant Time: Jun 15 03:57:05 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 14:10:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	115867	20.00	ng	-0.01
21) Naphthalene-d8	8.07	136	472051	20.00	ng	-0.01
38) Acenaphthene-d10	9.83	164	200641	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	303150	20.00	ng	-0.01
75) Chrysene-d12	13.94	240	235929	20.00	ng	-0.01
86) Perylene-d12	15.35	264	239691	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.38	112	743522	109.70	ng	0.00
7) Phenol-d6	6.42	99	805484	98.06	ng	-0.01
23) Nitrobenzene-d5	7.35	82	494877	61.22	ng	-0.01
41) 2,4,6-Tribromophenol	10.62	330	176170	83.16	ng	-0.01
44) 2-Fluorobiphenyl	9.15	172	906916	70.03	ng	-0.01
78) Terphenyl-d14	12.89	244	481153	46.41	ng	-0.01

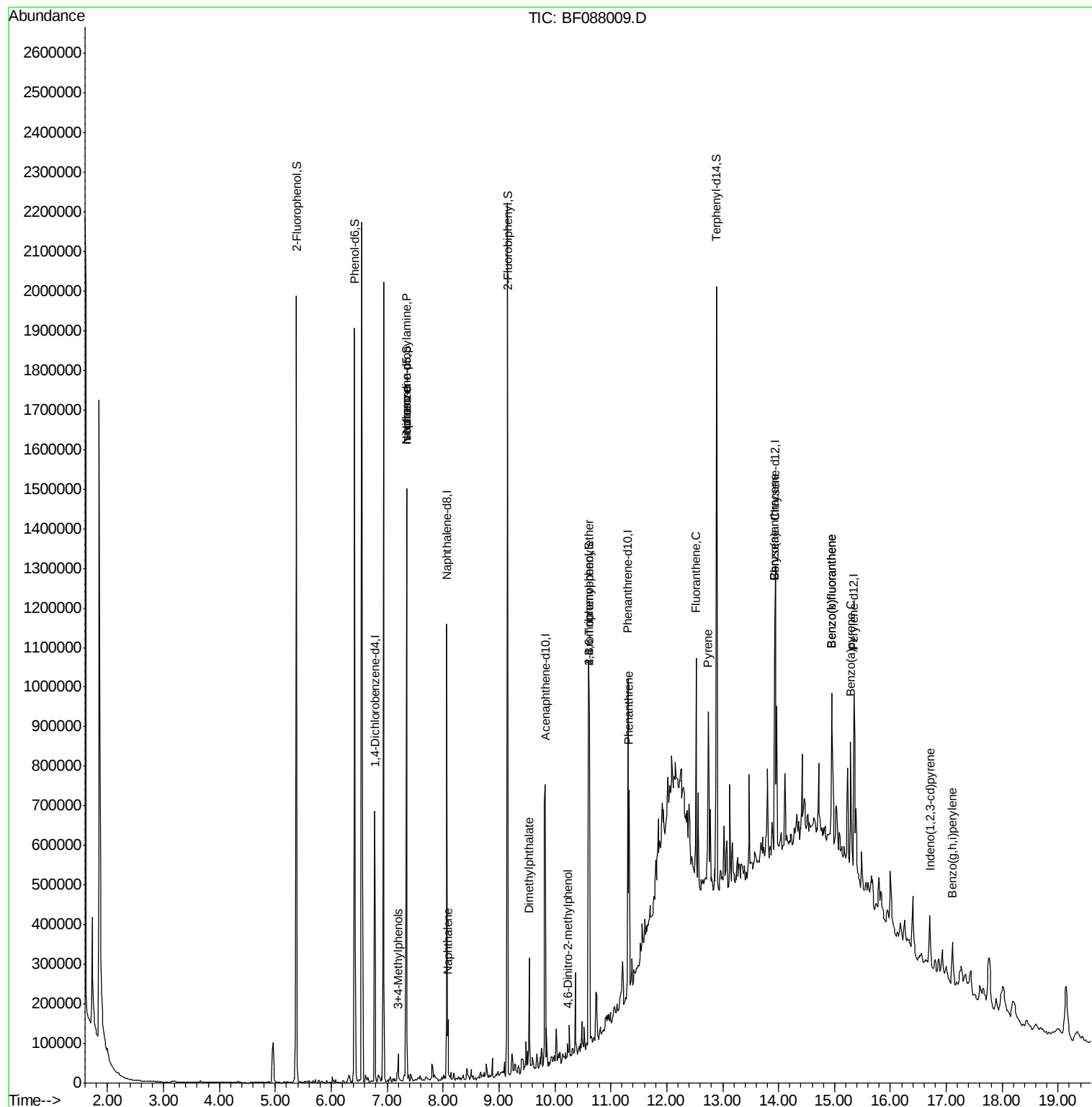
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.43	94	14966	Below Cal	#	72
19) n-Nitroso-di-n-propylamine	7.35	70	67530	12.85	ng	# 72
20) 3+4-Methylphenols	7.20	107	18281	2.41	ng	# 71
25) Isophorone	7.35	82	380324	25.40	ng	# 65
31) Naphthalene	8.09	128	58677	2.51	ng	98
45) 1,1'-Biphenyl	9.24	154	5602	Below Cal		98
49) Dimethylphthalate	9.54	163	102020	7.02	ng	100
57) Fluorene	10.36	166	47844	Below Cal		98
64) 4,6-Dinitro-2-methylphenol	10.24	198	268	2.30	ng	# 1
66) 4-Bromophenyl-phenylether	10.62	248	11384	3.50	ng	# 1
70) Phenanthrene	11.33	178	185610	11.67	ng	99
74) Fluoranthene	12.53	202	218093	12.99	ng	99
77) Pyrene	12.74	202	216155	12.35	ng	99
80) Benzo(a)anthracene	13.93	228	134032	9.97	ng	97
82) Chrysene	13.93	228	134032	10.60	ng	96
85) Indeno(1,2,3-cd)pyrene	16.71	276	89182	7.59	ng	# 100
87) Benzo(b)fluoranthene	14.95	252	271257	16.24	ng	# 90
88) Benzo(k)fluoranthene	14.95	252	271257	21.52	ng	# 95
89) Benzo(a)pyrene	15.29	252	142009	10.51	ng	99
91) Benzo(g,h,i)perylene	17.11	276	88639	6.86	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: 6.78 min Scan# 454

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

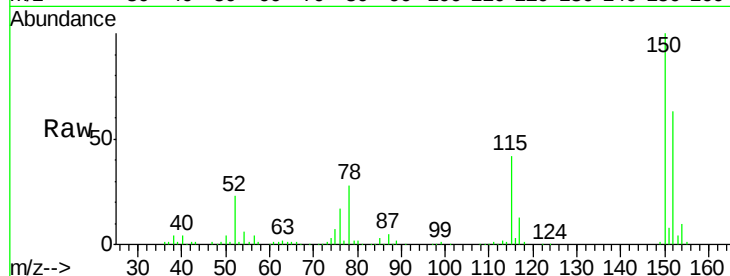
Tgt Ion:152 Resp: 115867

Ion Ratio Lower Upper

152 100

150 159.7 123.8 185.6

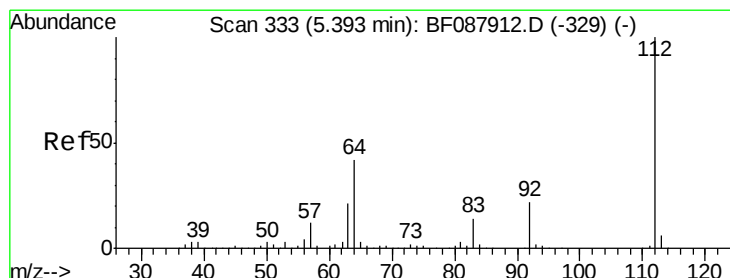
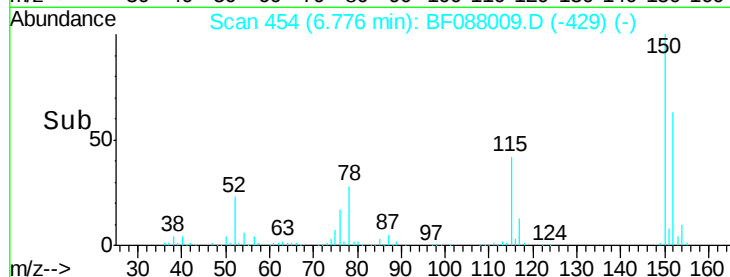
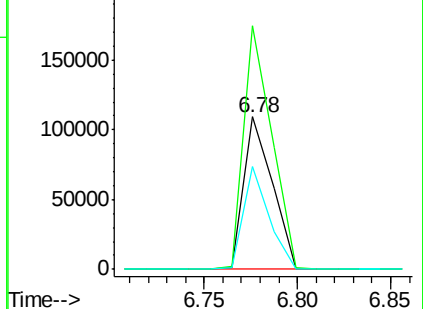
115 67.4 39.6 59.4#



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: 109.70 ng

RT: 5.38 min Scan# 332

Delta R.T. 0.00 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

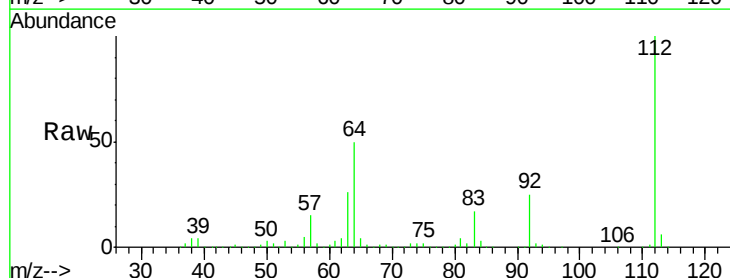
Tgt Ion:112 Resp: 743522

Ion Ratio Lower Upper

112 100

64 50.1 42.2 63.2

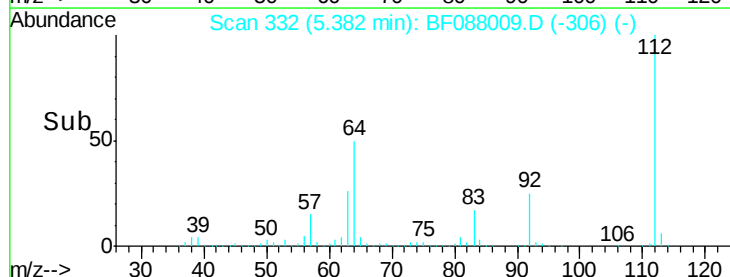
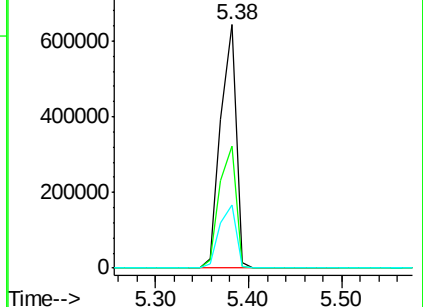
63 25.7 21.8 32.8



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: 98.06 ng

RT: 6.42 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

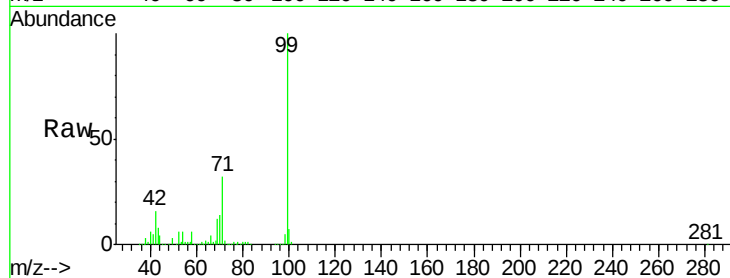
Tgt Ion: 99 Resp: 805484

Ion Ratio Lower Upper

99 100

42 15.6 12.2 18.2

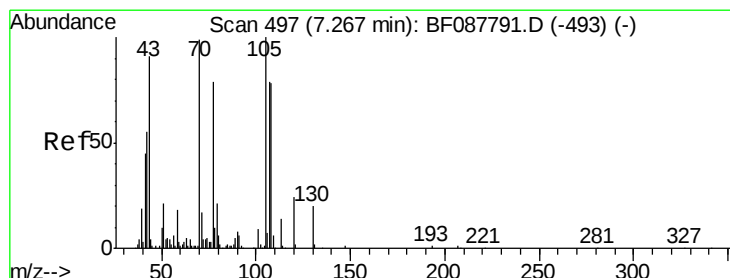
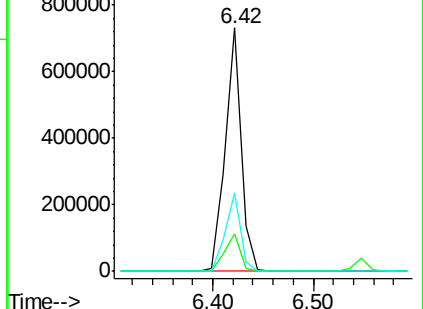
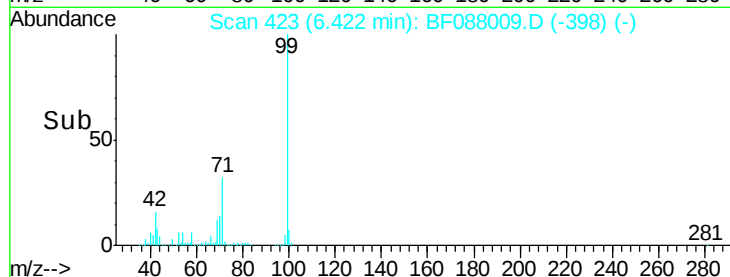
71 32.0 23.4 35.0



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: 12.85 ng

RT: 7.35 min Scan# 504

Delta R.T. 0.13 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Tgt Ion: 70 Resp: 67530

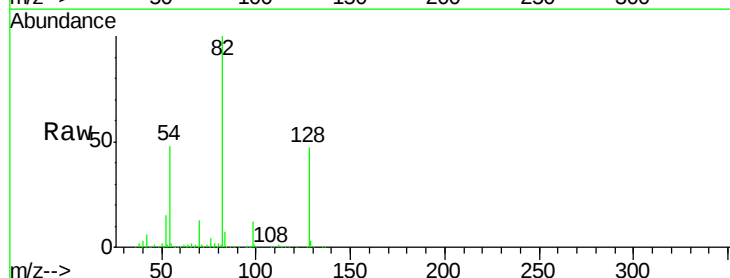
Ion Ratio Lower Upper

70 100

42 42.3 49.6 74.4#

101 0.0 7.1 10.7#

130 2.4 15.4 23.2#

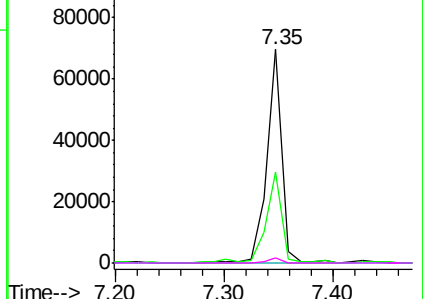
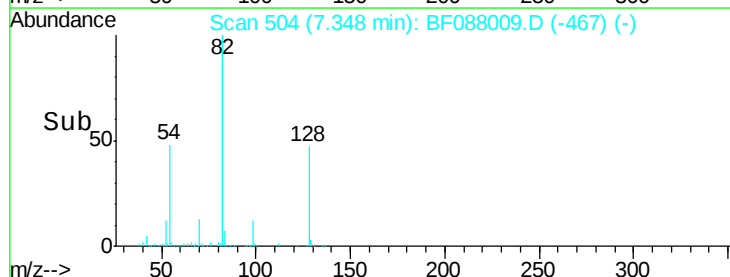


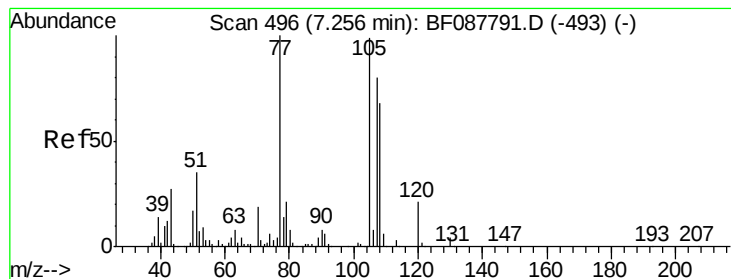
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#20

3+4-Methylphenols

Concen: 2.41 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

Tgt Ion:107 Resp: 18281

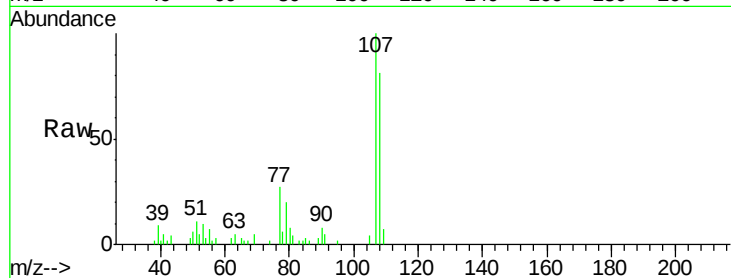
Ion Ratio Lower Upper

107 100

108 81.1 67.8 107.8

77 27.1 59.3 99.3#

79 19.8 7.0 47.0

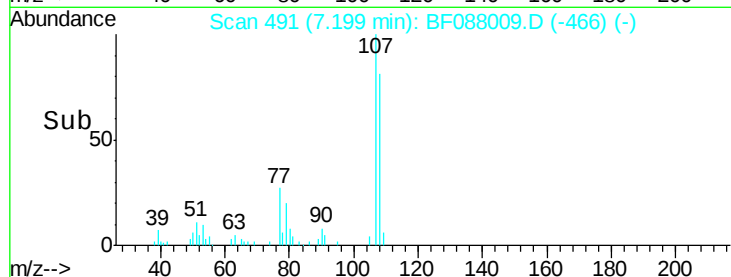


Abundance Ion 107.00 (106.70 to 107.70): E

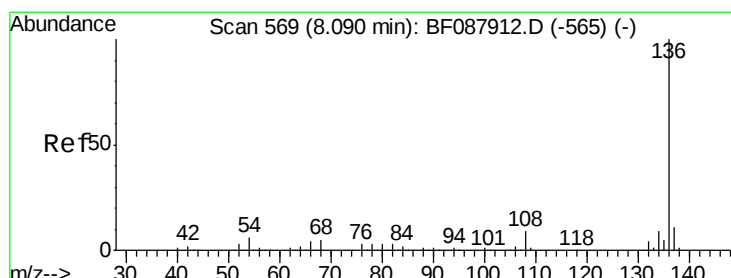
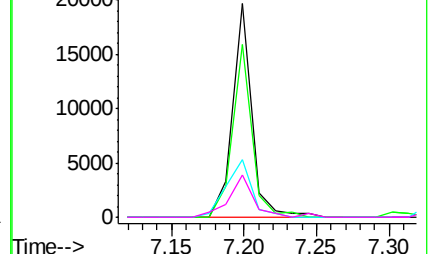
Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.07 min Scan# 567

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Tgt Ion:136 Resp: 472051

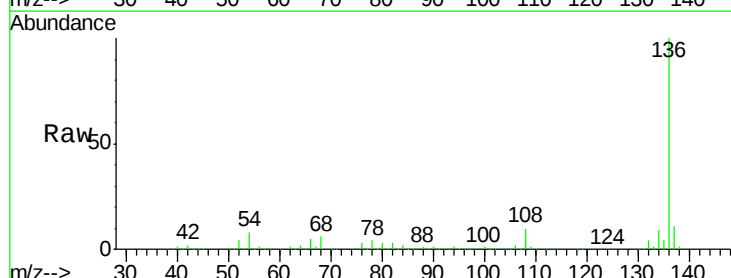
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 7.5 6.6 10.0

68 6.1 5.1 7.7

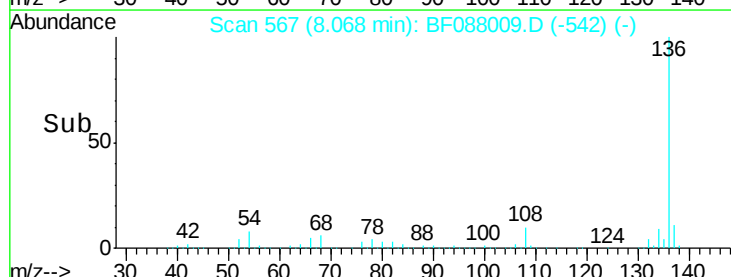


Abundance Ion 136.00 (135.70 to 136.70): E

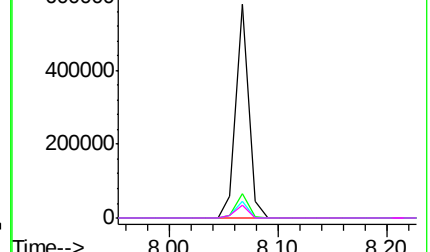
Ion 137.00 (136.70 to 137.70): E

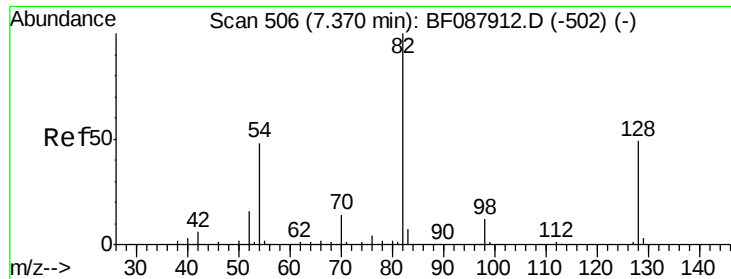
Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->

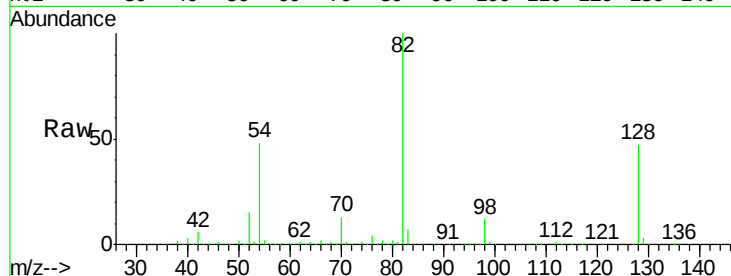




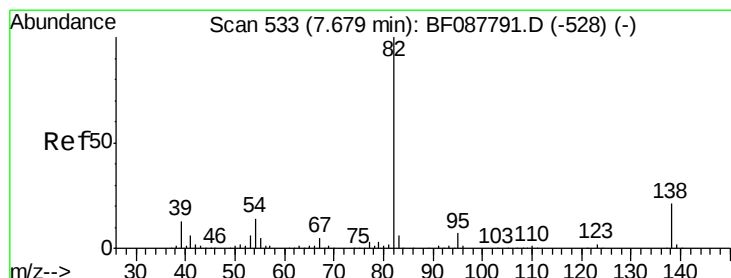
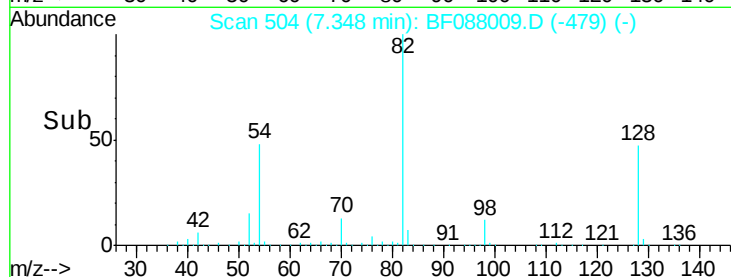
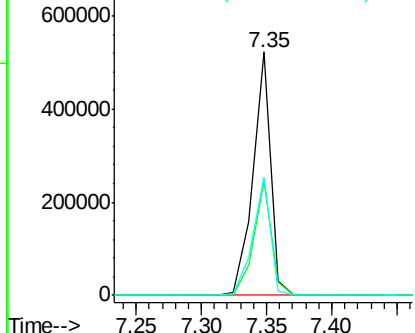
#23
Nitrobenzene-d5
Concen: 61.22 ng
RT: 7.35 min Scan# 504
Delta R.T. -0.01 min
Lab File: BF088009.D
Acq: 14 Jun 2016 20:28

Instrument :
BNA_F
ClientSampleId :
S7-B2-(0-9)C

Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.9	35.9	53.9
54	48.5	40.9	61.3

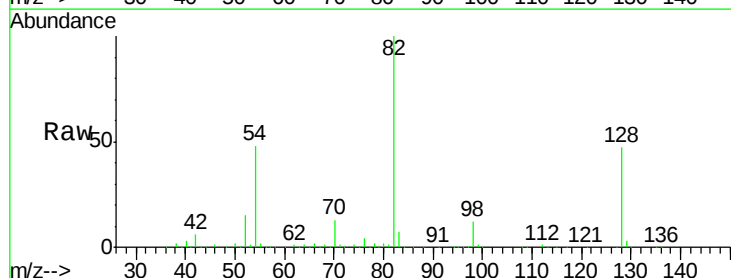


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

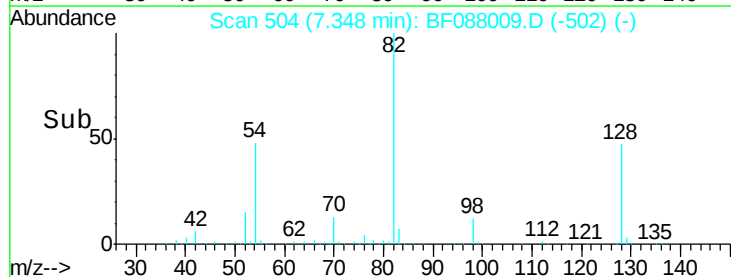
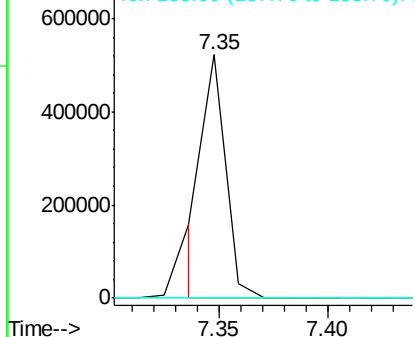


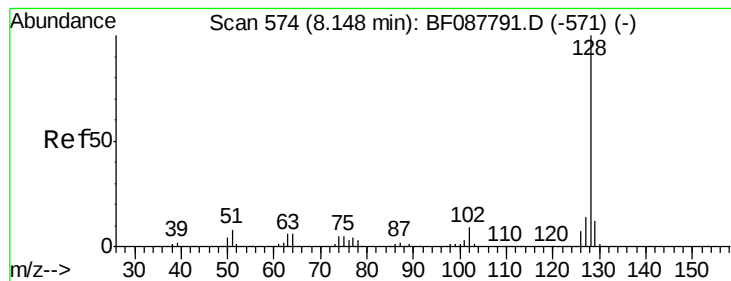
#25
Isophorone
Concen: 25.40 ng
RT: 7.35 min Scan# 504
Delta R.T. -0.27 min
Lab File: BF088009.D
Acq: 14 Jun 2016 20:28

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.1	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): BF0





#31

Naphthalene

Concen: 2.51 ng

RT: 8.09 min Scan# 569

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

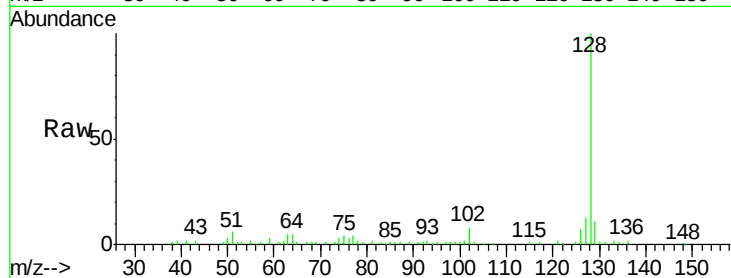
Tgt Ion:128 Resp: 58677

Ion Ratio Lower Upper

128 100

129 11.2 9.4 14.2

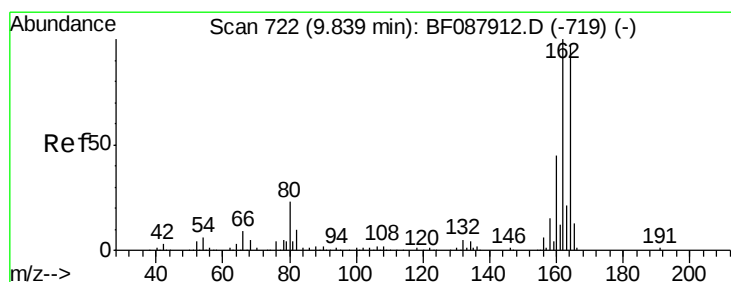
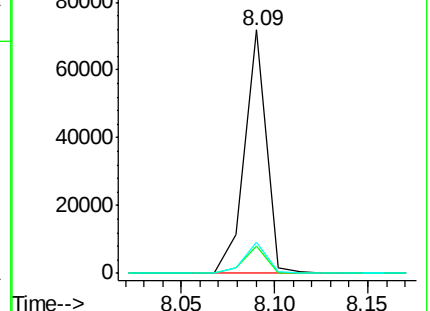
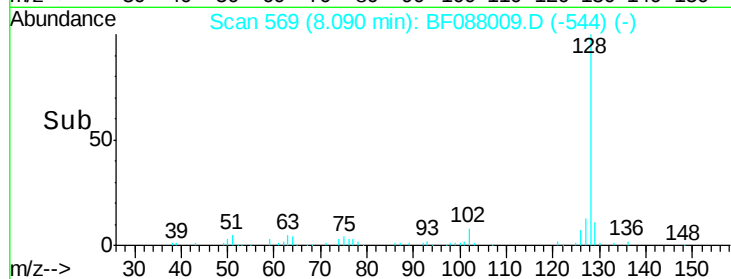
127 13.0 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.83 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

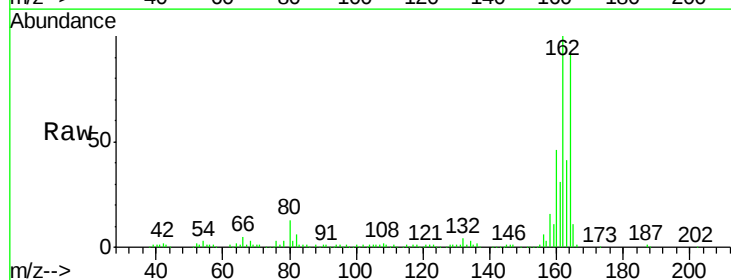
Tgt Ion:164 Resp: 200641

Ion Ratio Lower Upper

164 100

162 108.6 85.4 128.2

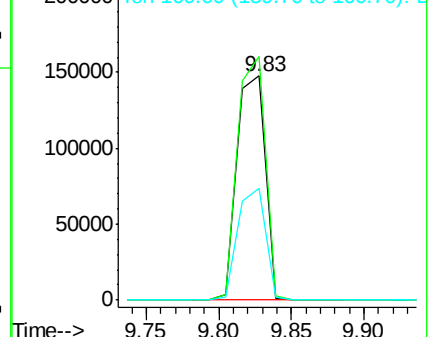
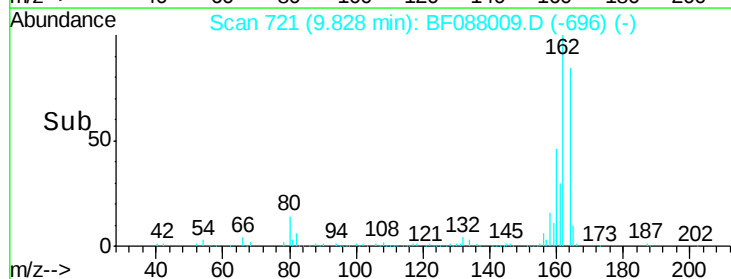
160 50.0 39.5 59.3

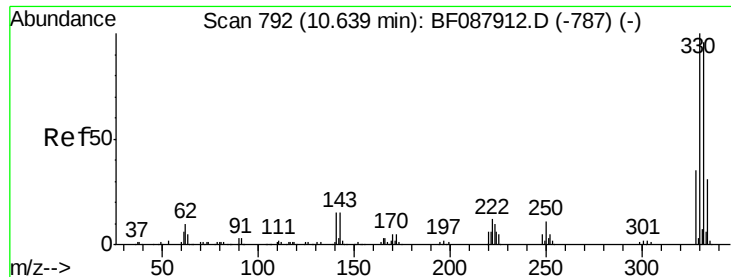


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

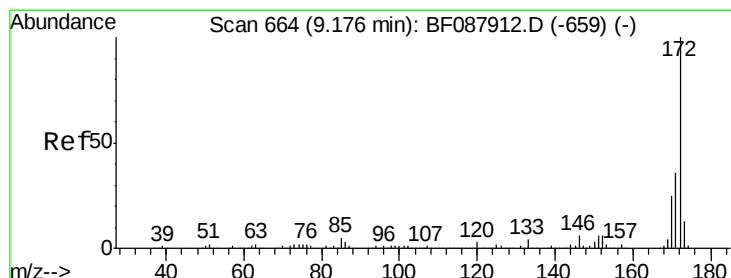
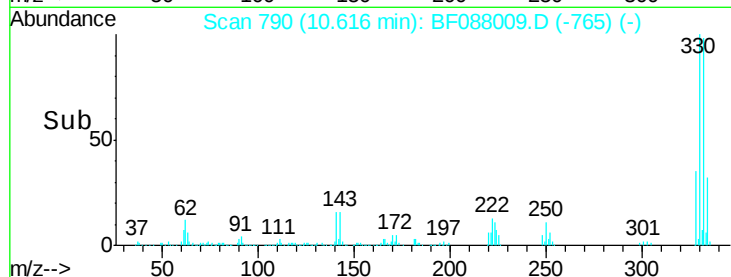
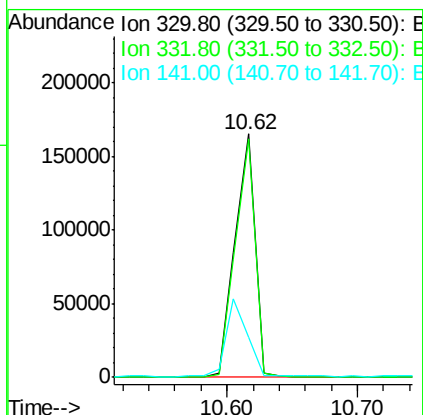
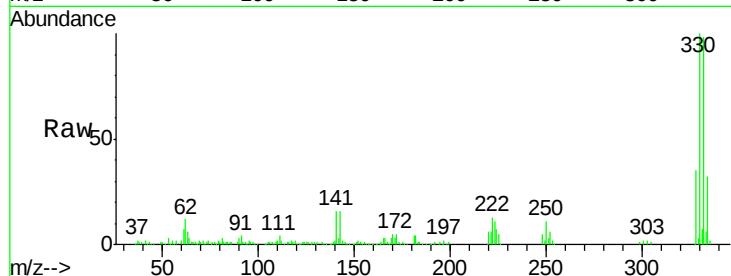




#41
 2,4,6-Tribromophenol
 Concen: 83.16 ng
 RT: 10.62 min Scan# 790
 Delta R.T. -0.01 min
 Lab File: BF088009.D
 Acq: 14 Jun 2016 20:28

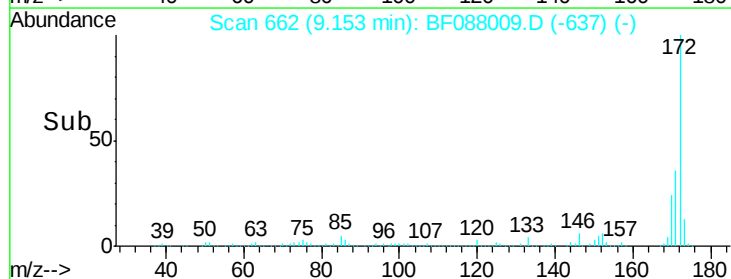
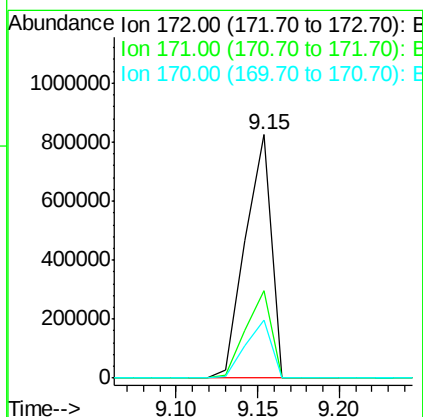
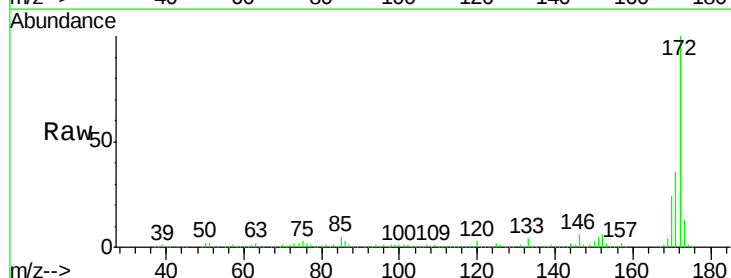
Instrument :
 BNA_F
 ClientSampleId :
 S7-B2-(0-9)C

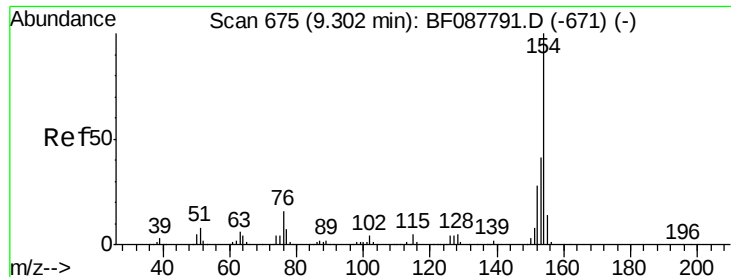
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	0.0	0.0#
141	34.0	0.0	0.0#



#44
 2-Fluorobiphenyl
 Concen: 70.03 ng
 RT: 9.15 min Scan# 662
 Delta R.T. -0.01 min
 Lab File: BF088009.D
 Acq: 14 Jun 2016 20:28

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.0	19.2	28.8





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.24 min Scan# 670

Delta R.T. -0.02 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

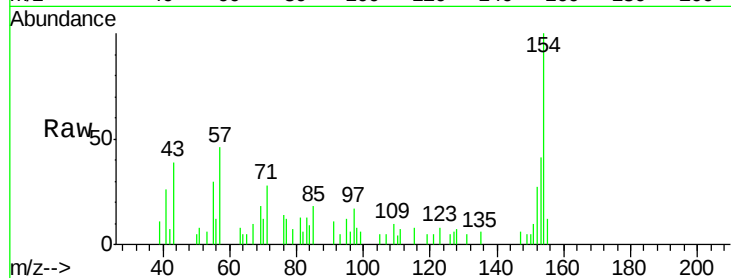
Tgt Ion:154 Resp: 5602

Ion Ratio Lower Upper

154 100

153 41.4 20.6 60.6

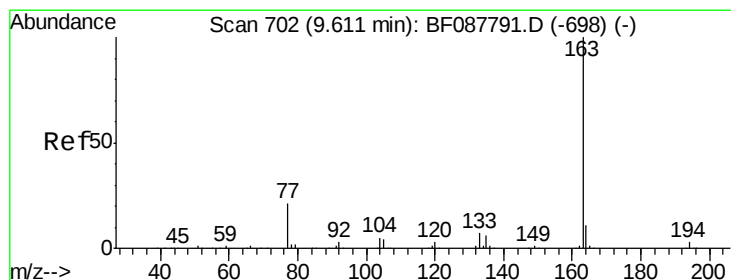
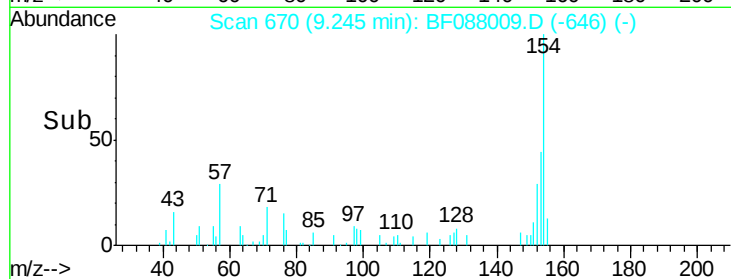
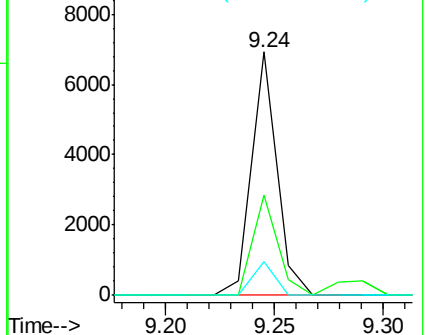
76 13.8 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 7.02 ng

RT: 9.54 min Scan# 696

Delta R.T. -0.02 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

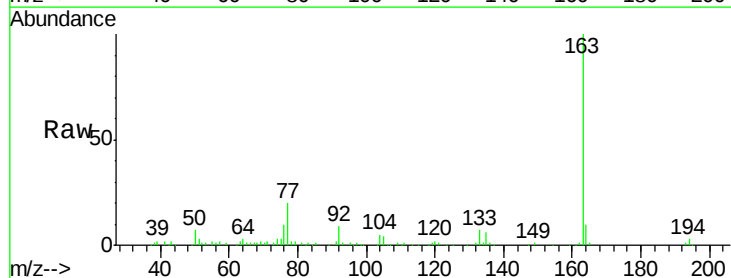
Tgt Ion:163 Resp: 102020

Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

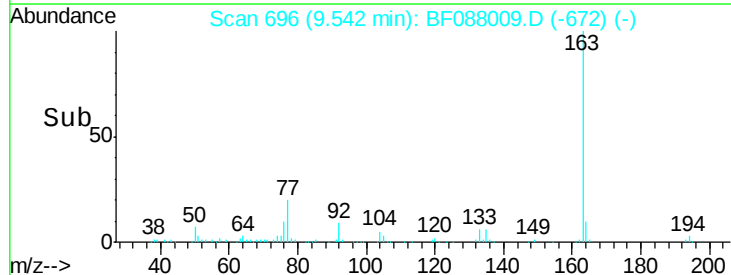
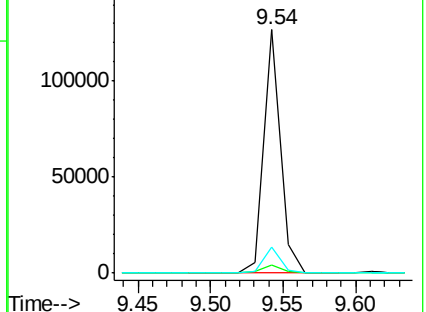
164 10.4 8.3 12.5

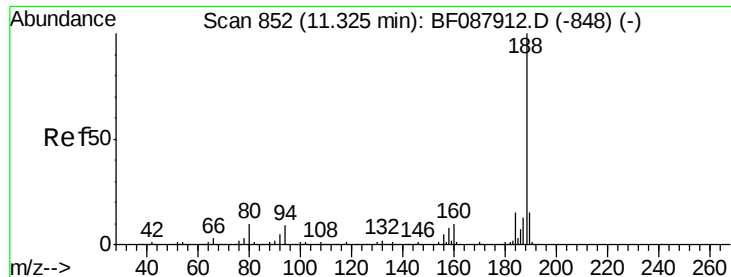


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

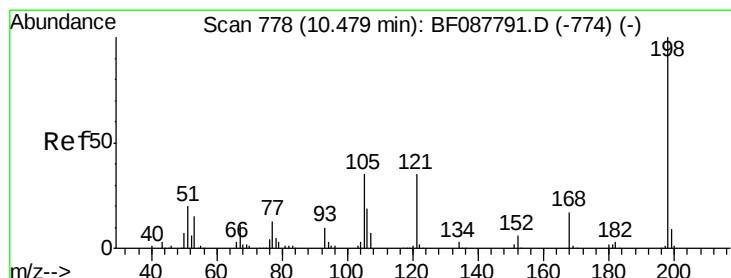
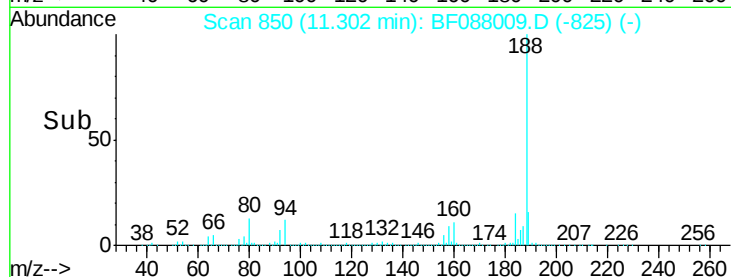
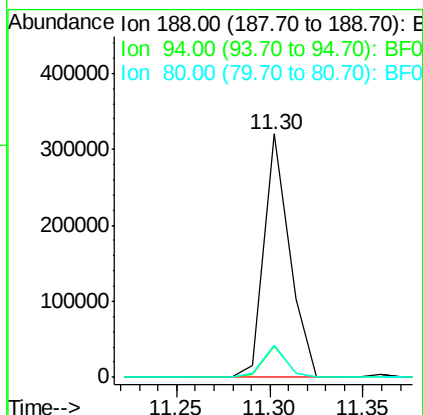
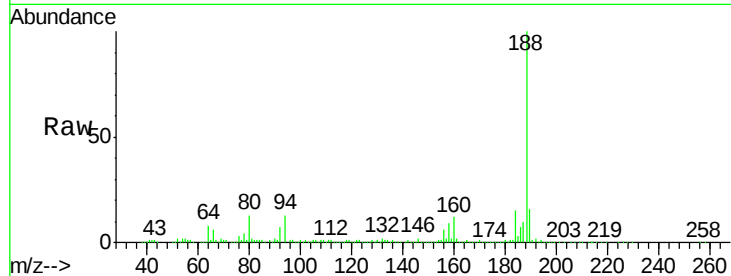




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 850
Delta R.T. -0.01 min
Lab File: BF088009.D
Acq: 14 Jun 2016 20:28

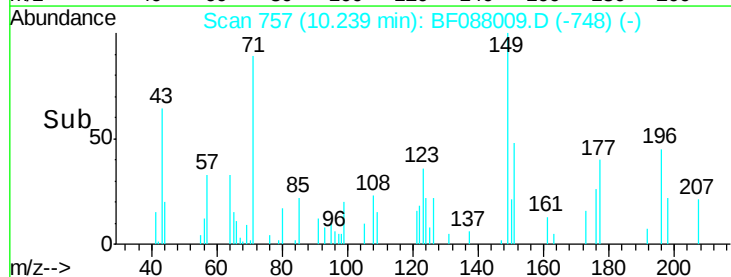
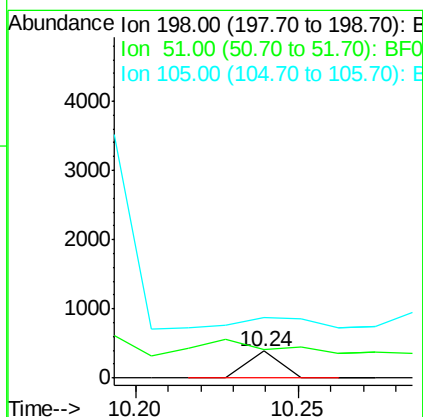
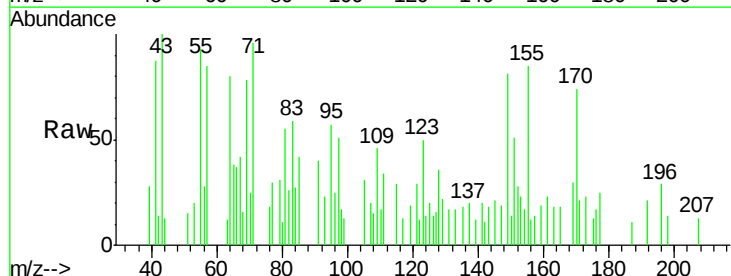
Instrument :
BNA_F
ClientSampleId :
S7-B2-(0-9)C

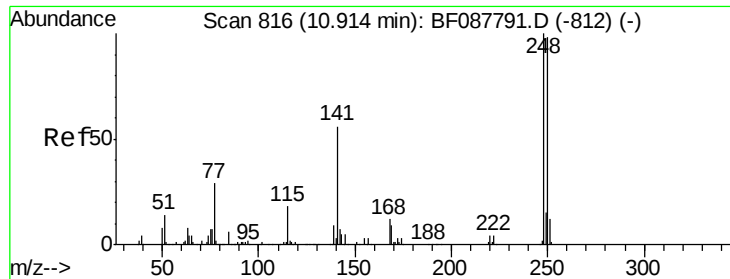
Tgt Ion:188 Resp: 303150
Ion Ratio Lower Upper
188 100
94 12.6 9.0 13.6
80 13.3 10.0 15.0



#64
4,6-Dinitro-2-methylphenol
Concen: 2.30 ng
RT: 10.24 min Scan# 757
Delta R.T. -0.19 min
Lab File: BF088009.D
Acq: 14 Jun 2016 20:28

Tgt Ion:198 Resp: 268
Ion Ratio Lower Upper
198 100
51 106.6 39.6 79.6#
105 223.8 36.6 76.6#

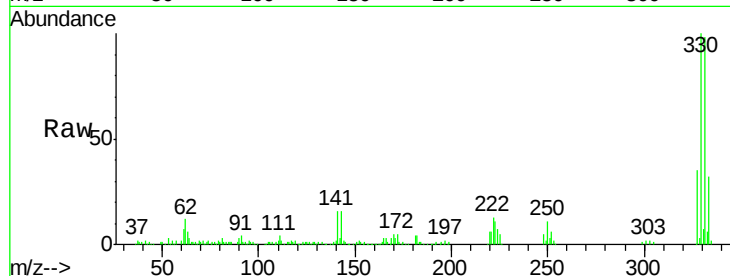




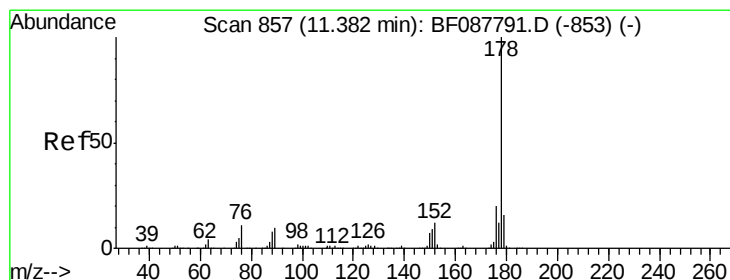
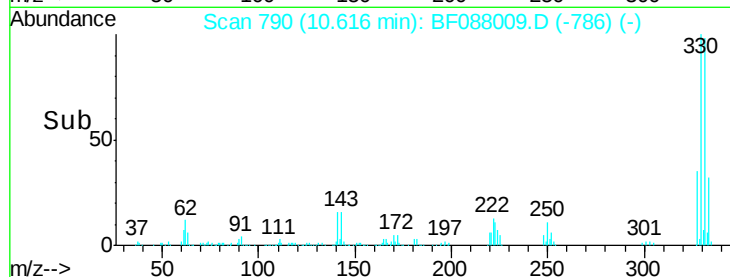
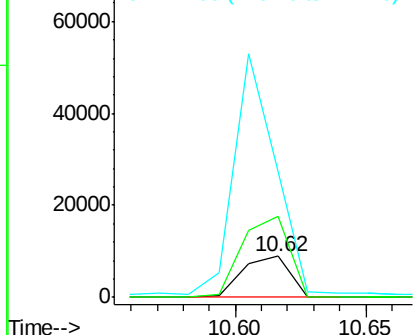
#66
 4-Bromophenyl-phenylether
 Concen: 3.50 ng
 RT: 10.62 min Scan# 790
 Delta R.T. -0.25 min
 Lab File: BF088009.D
 Acq: 14 Jun 2016 20:28

Instrument :
 BNA_F
 ClientSampleId :
 S7-B2-(0-9)C

Tgt Ion:248 Resp: 11384
 Ion Ratio Lower Upper
 248 100
 250 198.1 77.1 115.7#
 141 303.8 50.6 76.0#

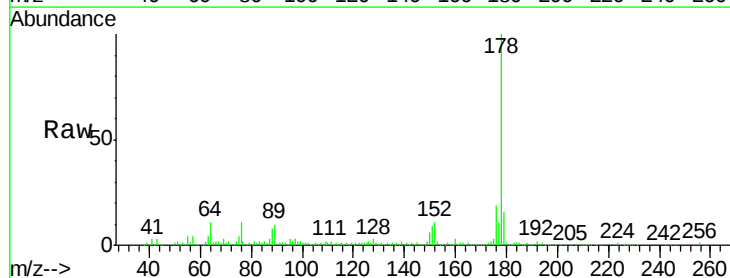


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

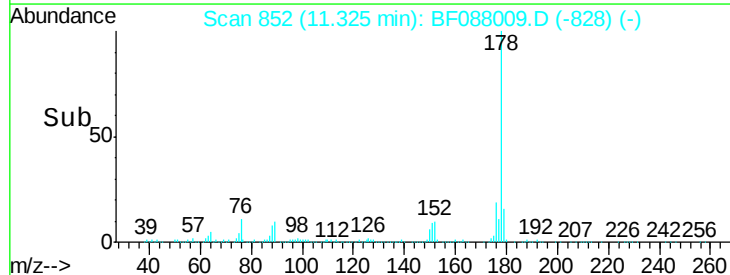
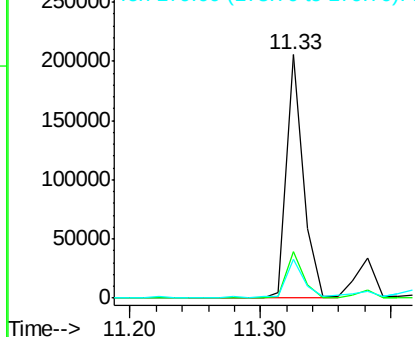


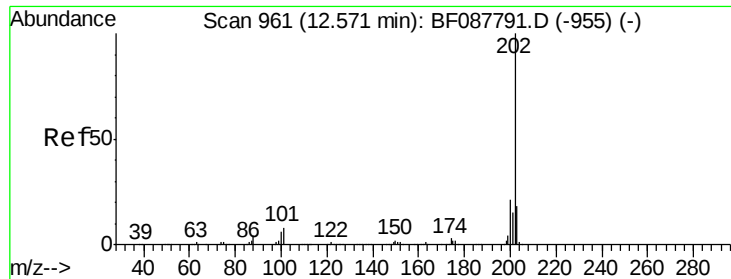
#70
 Phenanthrene
 Concen: 11.67 ng
 RT: 11.33 min Scan# 852
 Delta R.T. -0.02 min
 Lab File: BF088009.D
 Acq: 14 Jun 2016 20:28

Tgt Ion:178 Resp: 185610
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.6
 179 16.1 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: 12.99 ng

RT: 12.53 min Scan# 957

Delta R.T. 0.00 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

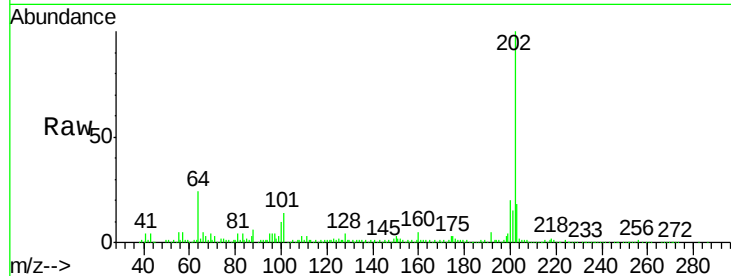
Tgt Ion:202 Resp: 218093

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.1

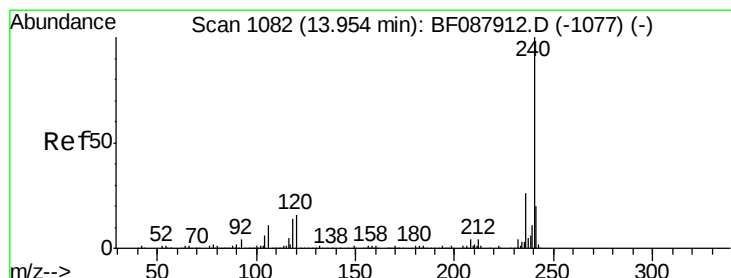
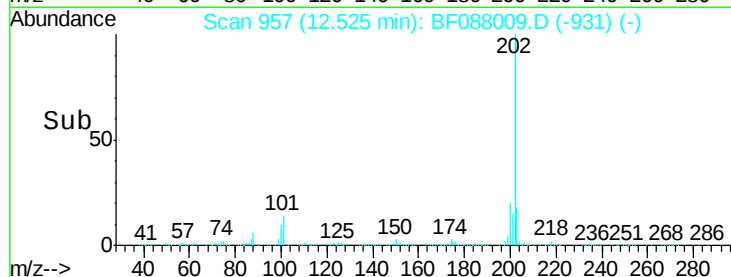
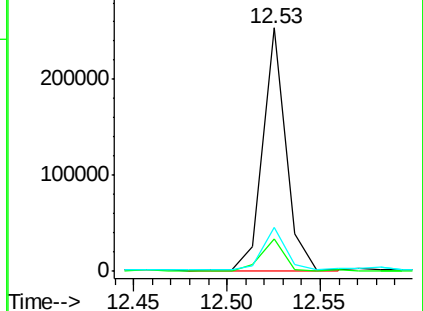
203 18.3 0.0 38.1



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: 13.94 min Scan# 1081

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

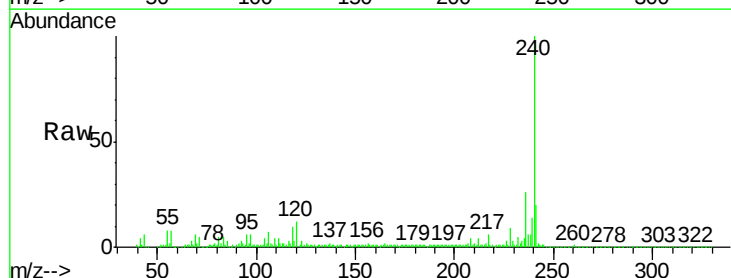
Tgt Ion:240 Resp: 235929

Ion Ratio Lower Upper

240 100

120 11.7 6.8 10.2#

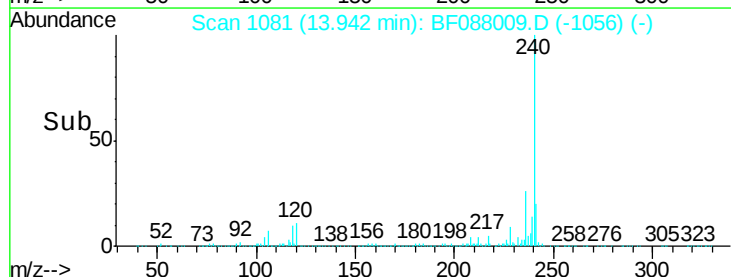
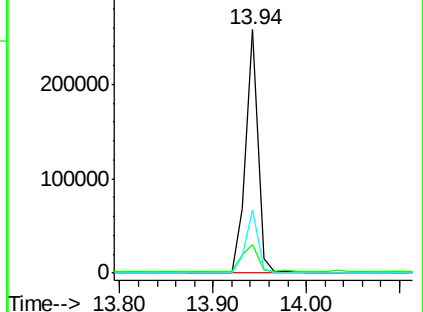
236 25.8 20.2 30.2

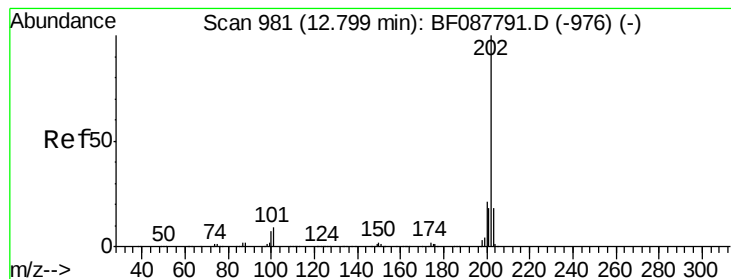


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 12.35 ng

RT: 12.74 min Scan# 976

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

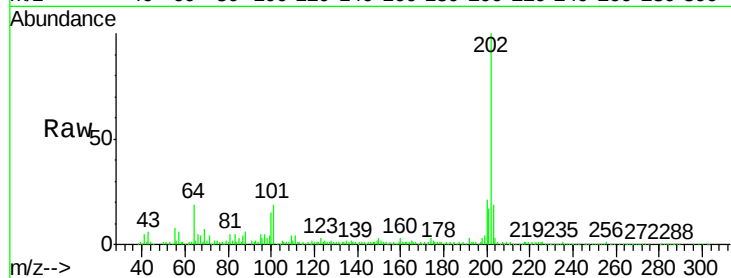
Tgt Ion:202 Resp: 216155

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

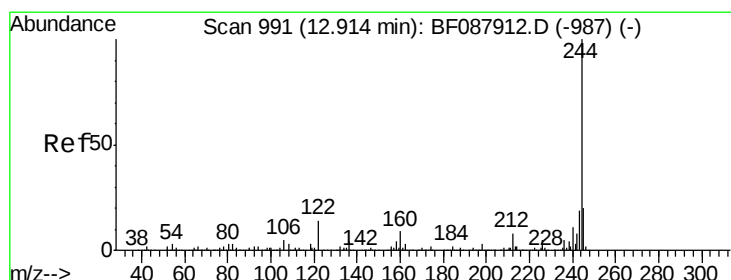
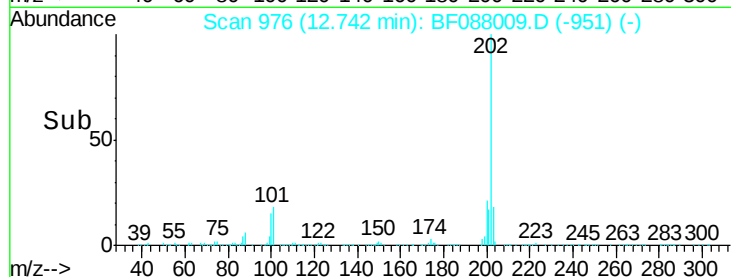
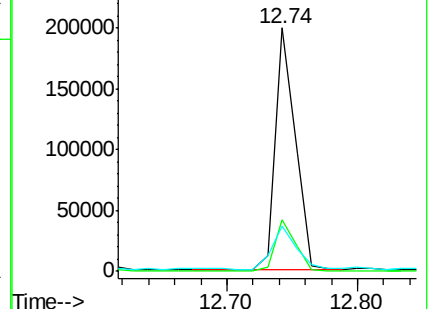
203 18.6 14.5 21.7



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: 46.41 ng

RT: 12.89 min Scan# 989

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

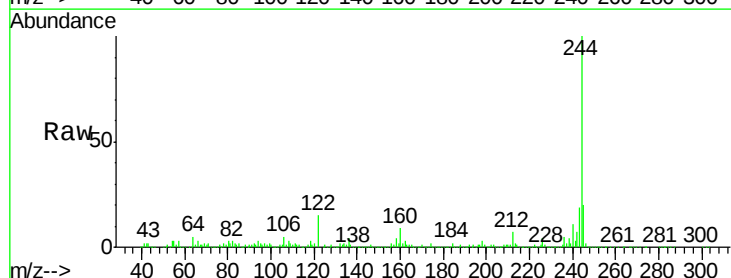
Tgt Ion:244 Resp: 481153

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

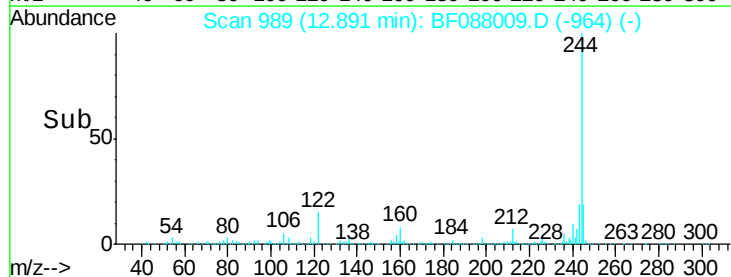
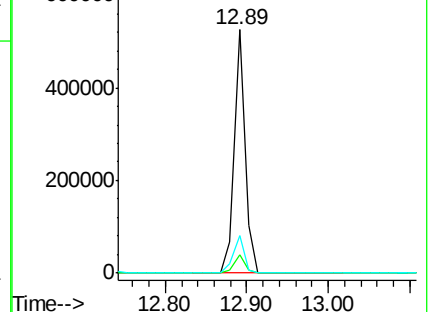
122 15.2 11.2 16.8

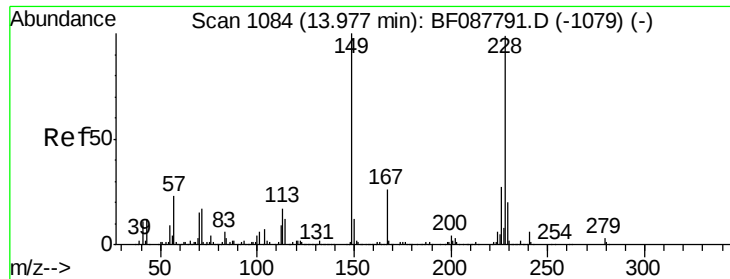


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 9.97 ng

RT: 13.93 min Scan# 1080

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

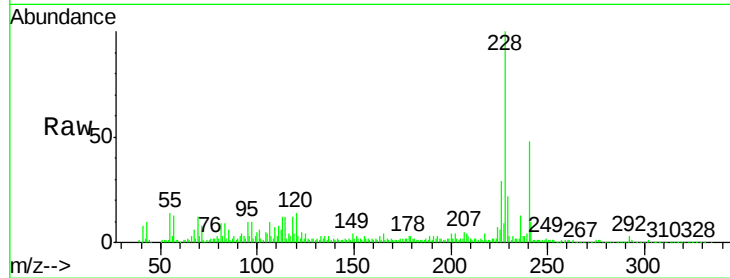
Tgt Ion:228 Resp: 134032

Ion Ratio Lower Upper

228 100

226 28.9 22.3 33.5

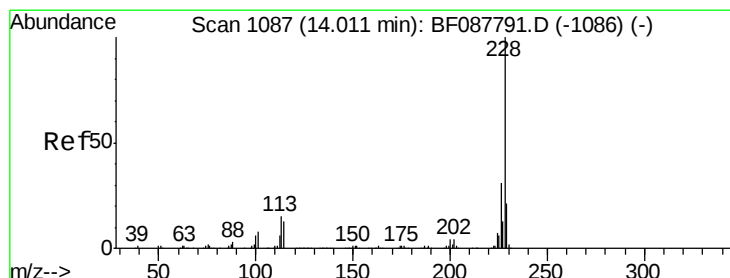
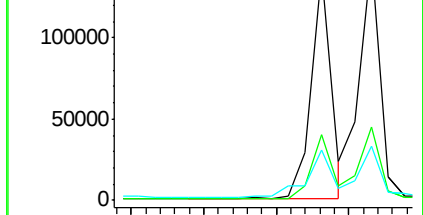
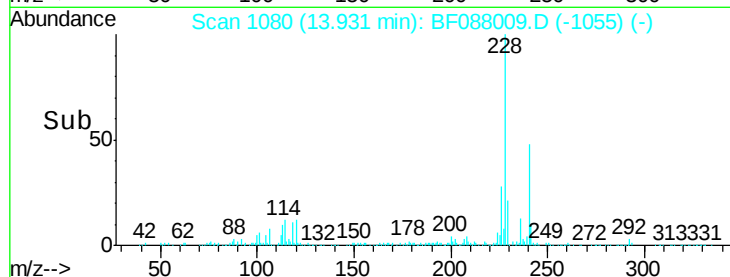
229 21.8 16.0 24.0



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: 10.60 ng

RT: 13.93 min Scan# 1080

Delta R.T. -0.05 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

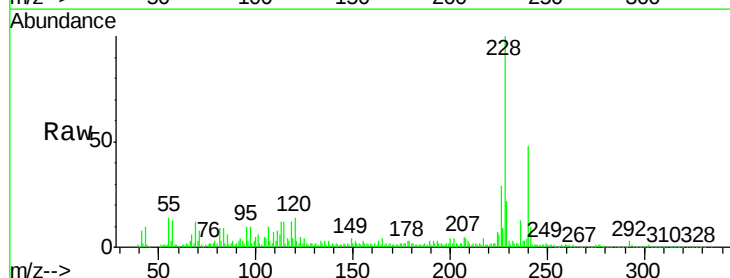
Tgt Ion:228 Resp: 134032

Ion Ratio Lower Upper

228 100

226 28.9 25.4 38.2

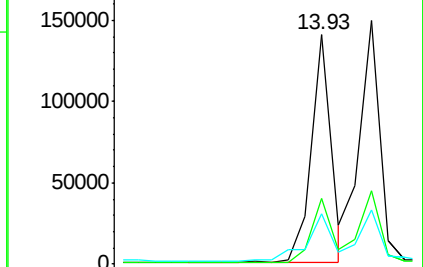
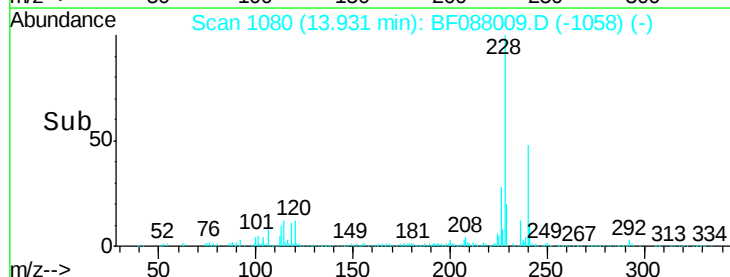
229 21.8 16.3 24.5

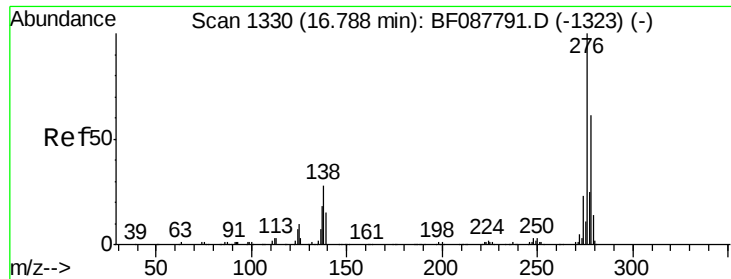


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

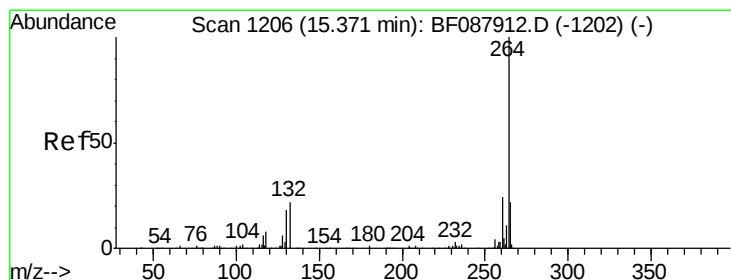
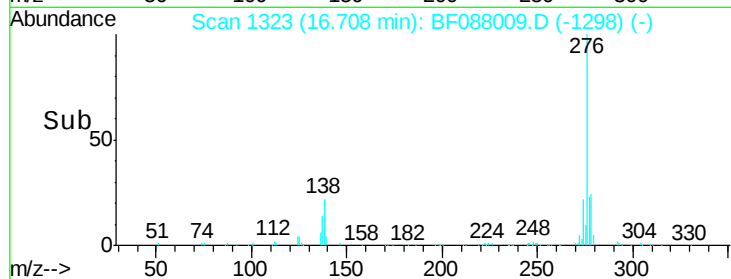
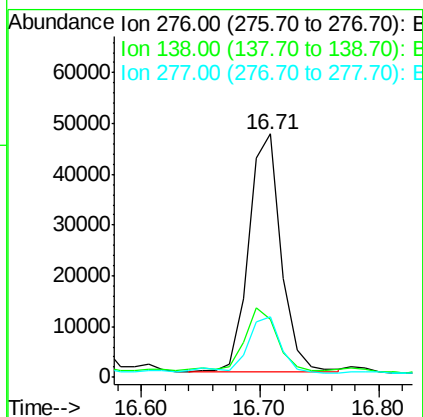
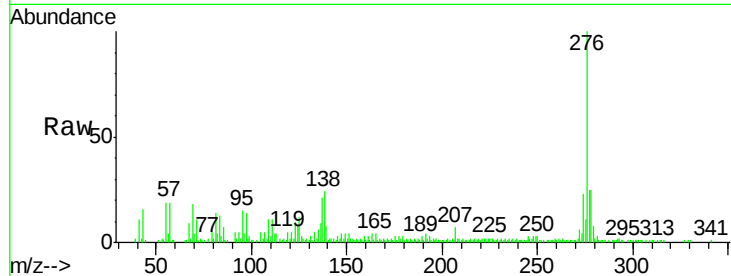




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.59 ng
 RT: 16.71 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: BF088009.D
 Acq: 14 Jun 2016 20:28

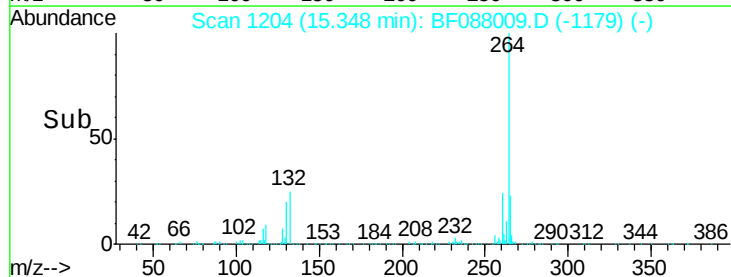
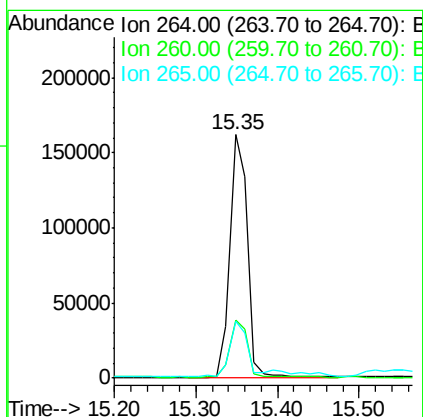
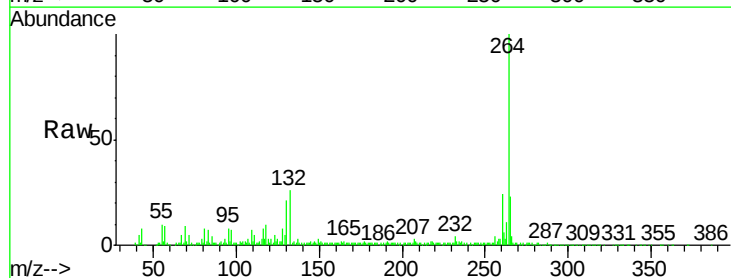
Instrument :
 BNA_F
 ClientSampleId :
 S7-B2-(0-9)C

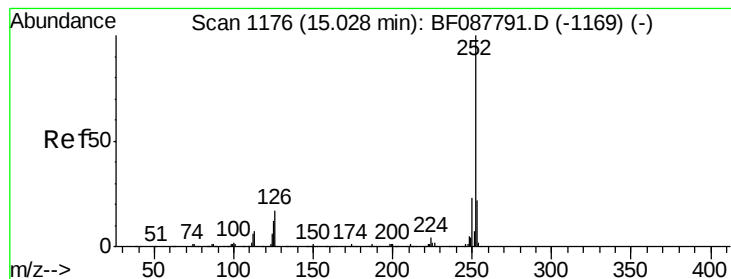
Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.4	0.0	0.0#
277	26.6	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.35 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF088009.D
 Acq: 14 Jun 2016 20:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	23.5	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 16.24 ng

RT: 14.95 min Scan# 1169

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

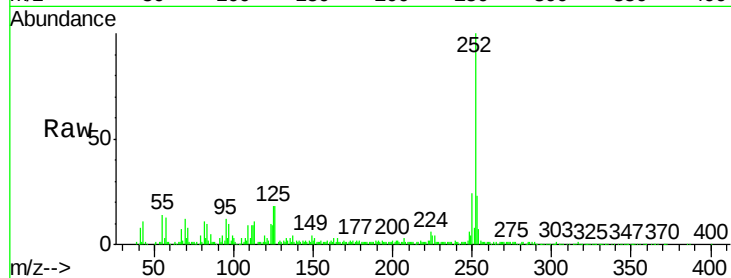
Instrument :

BNA_F

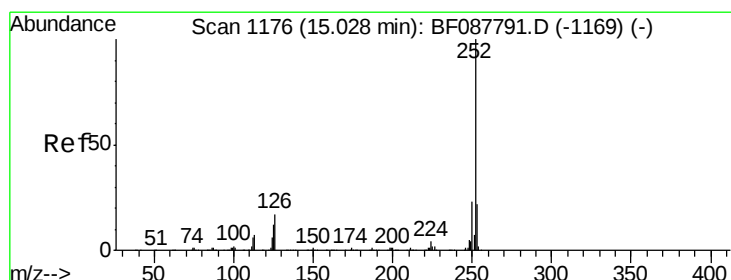
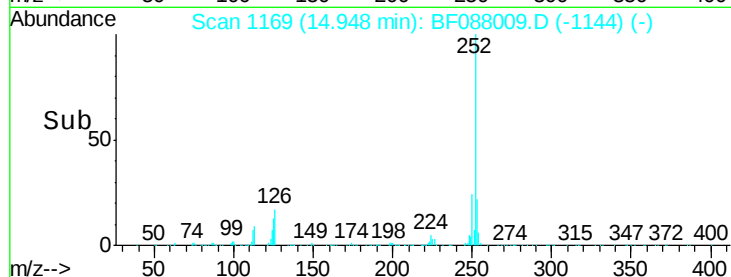
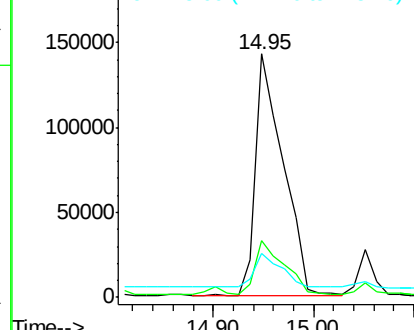
ClientSampleId :

S7-B2-(0-9)C

Tgt Ion:	252	Resp:	271257
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.2
125	18.1	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: 21.52 ng

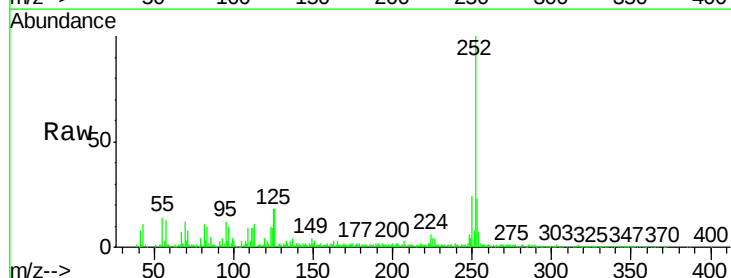
RT: 14.95 min Scan# 1169

Delta R.T. -0.03 min

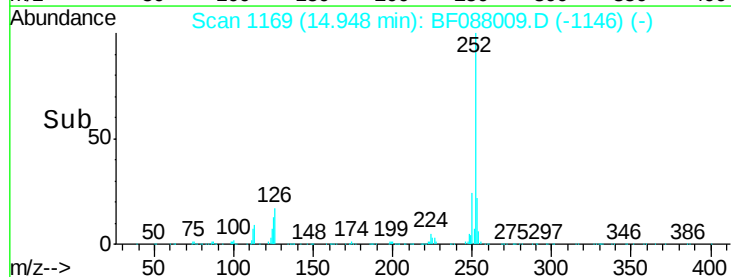
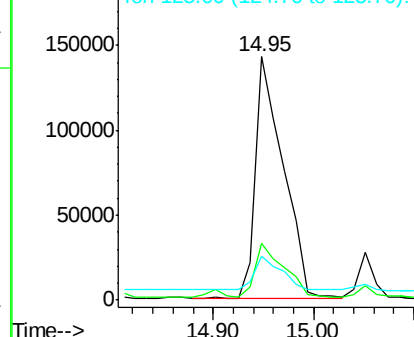
Lab File: BF088009.D

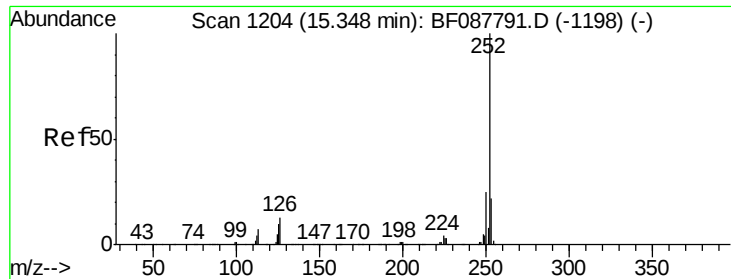
Acq: 14 Jun 2016 20:28

Tgt Ion:	252	Resp:	271257
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.0	27.0
125	18.1	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: 10.51 ng

RT: 15.29 min Scan# 1199

Delta R.T. -0.01 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

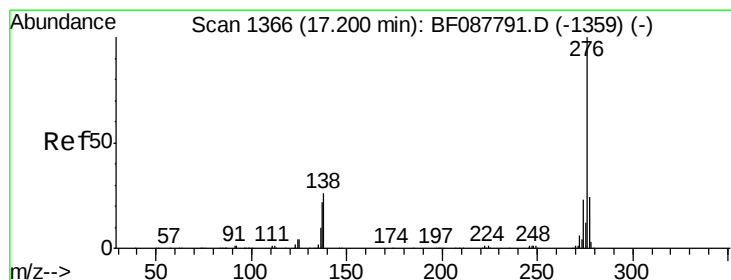
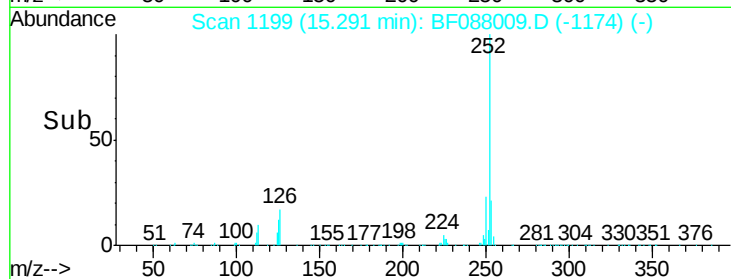
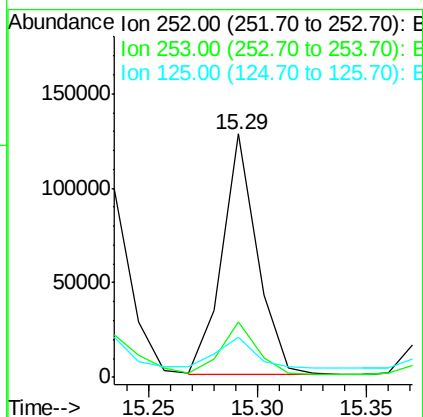
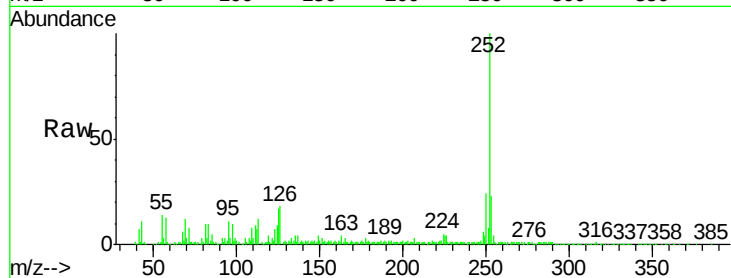
Instrument :

BNA_F

ClientSampleId :

S7-B2-(0-9)C

Tgt Ion:	252	Resp:	142009
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	16.5	12.5	18.7



#91

Benzo(g,h,i)perylene

Concen: 6.86 ng

RT: 17.11 min Scan# 1358

Delta R.T. -0.02 min

Lab File: BF088009.D

Acq: 14 Jun 2016 20:28

Tgt Ion:	276	Resp:	88639
Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.9	28.3
138	29.1	21.4	32.2

