

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089049.D
 Acq On : 16 Jul 2016 12:06
 Operator : UM/SJ
 Sample : H3951-13 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 01:12:12 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	6.66	152	61722	20.00	ng	-0.05
21) Naphthalene-d8	7.94	136	228021	20.00	ng	-0.06
38) Acenaphthene-d10	9.70	164	115128	20.00	ng	-0.05
63) Phenanthrene-d10	11.18	188	184026	20.00	ng	-0.05
75) Chrysene-d12	13.81	240	114081	20.00	ng	-0.05
86) Perylene-d12	15.18	264	110702	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	73477	17.84	ng	-0.05
7) Phenol-d6	6.31	99	100613	18.91	ng	-0.05
23) Nitrobenzene-d5	7.22	82	59050	13.57	ng	-0.06
41) 2,4,6-Tribromophenol	10.48	330	12072	11.29	ng	-0.06
44) 2-Fluorobiphenyl	9.03	172	116844	16.03	ng	-0.05
78) Terphenyl-d14	12.77	244	66889	13.06	ng	-0.03

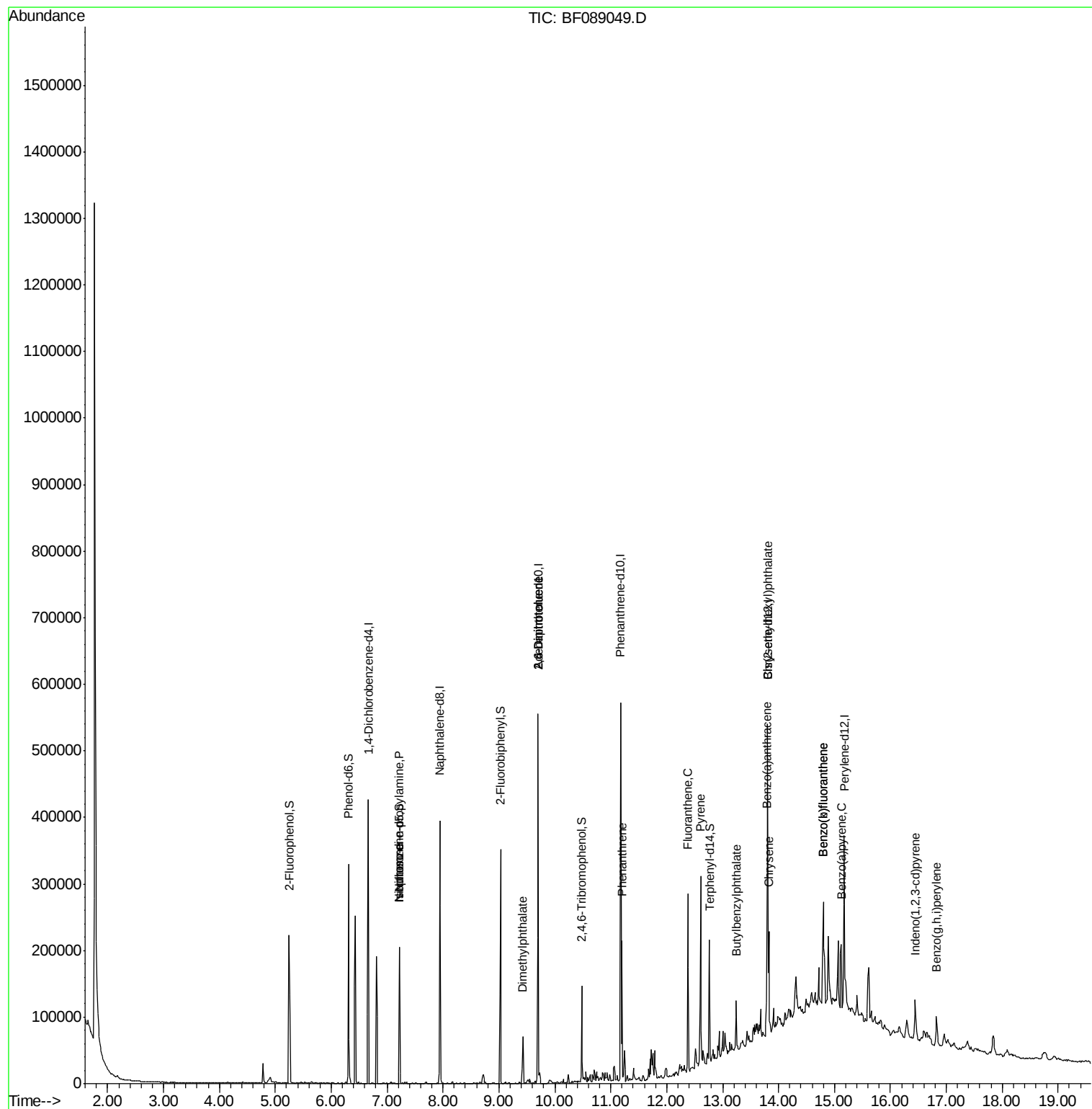
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.22	70	7864	2.20	ng	# 74
25) Isophorone	7.22	82	54850	6.81	ng	# 65
49) Dimethylphthalate	9.43	163	29310	3.57	ng	100
50) 2,6-Dinitrotoluene	9.70	165	14690	8.08	ng	# 37
56) 2,4-Dinitrotoluene	9.70	165	14690	6.18	ng	# 36
70) Phenanthrene	11.20	178	68927	6.85	ng	98
74) Fluoranthene	12.38	202	124543	12.21	ng	97
77) Pyrene	12.61	202	107700	11.13	ng	99
79) Butylbenzylphthalate	13.25	149	20183	4.68	ng	96
80) Benzo(a)anthracene	13.79	228	66111	9.00	ng	99
82) Chrysene	13.83	228	42473	5.84	ng	97
83) Bis(2-ethylhexyl)phthalate	13.81	149	13257	2.69	ng	97
85) Indeno(1,2,3-cd)pyrene	16.45	276	31612	5.65	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	97231	14.00	ng	# 94
88) Benzo(k)fluoranthene	14.80	252	97231	16.08	ng	99
89) Benzo(a)pyrene	15.12	252	50674	8.62	ng	97
91) Benzo(a,h,i)perylene	16.82	276	30897	6.08	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampleId :

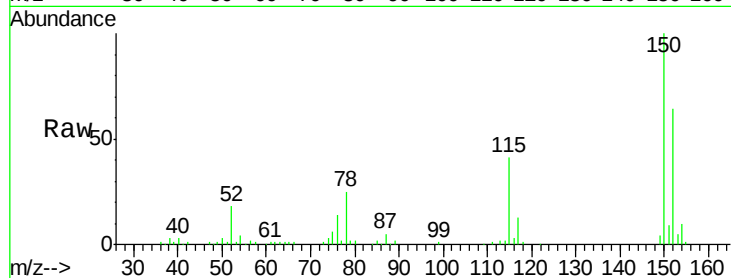
Tot Ion:152 Resp: 61722

Ion Ratio Lower Upper

152 100

150 155.3 123.8 185.6

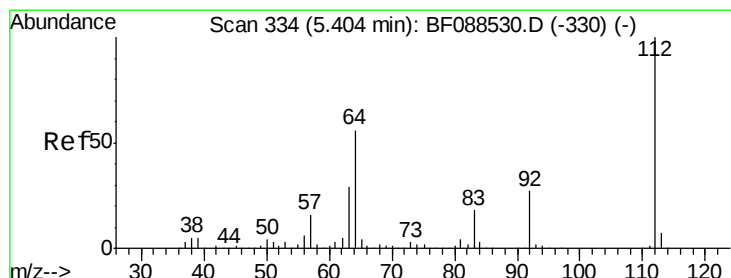
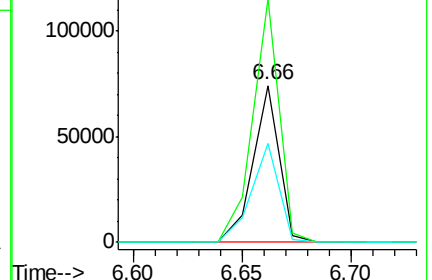
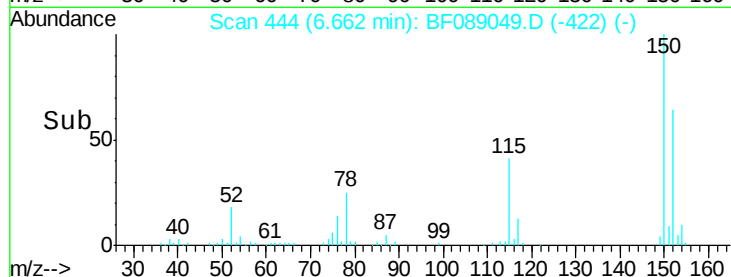
115 63.4 39.6 59.4#



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: 17.84 ng

RT: 5.24 min Scan# 320

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

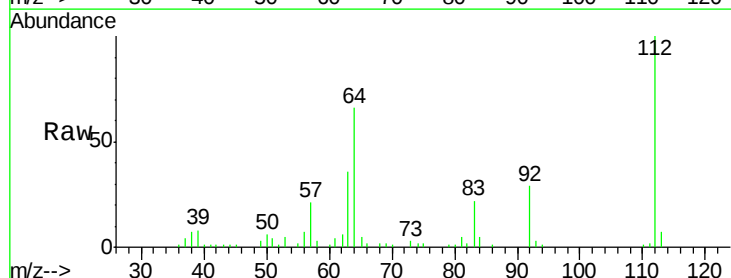
Tgt Ion:112 Resp: 73477

Ion Ratio Lower Upper

112 100

64 66.2 42.2 63.2#

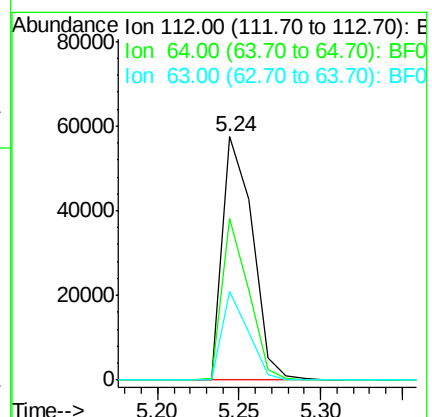
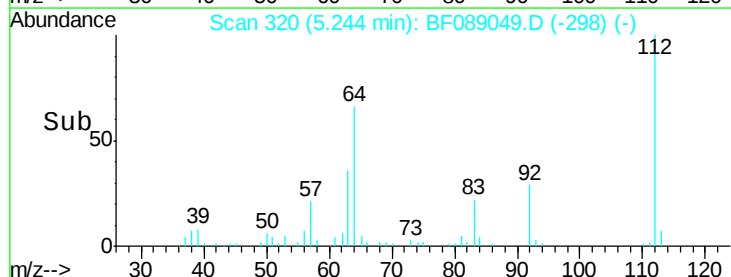
63 36.3 21.8 32.8#



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: 18.91 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampleId :

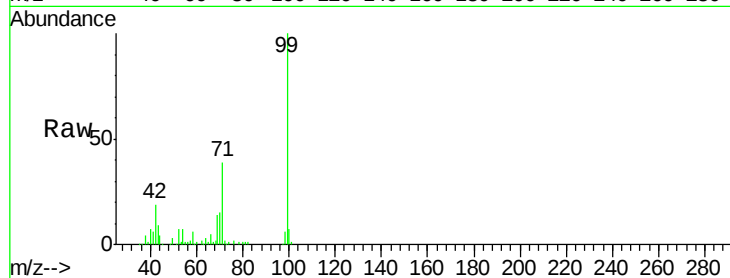
Tot Ion: 99 Resp: 100613

Ion Ratio Lower Upper

99 100

42 18.6 12.2 18.2#

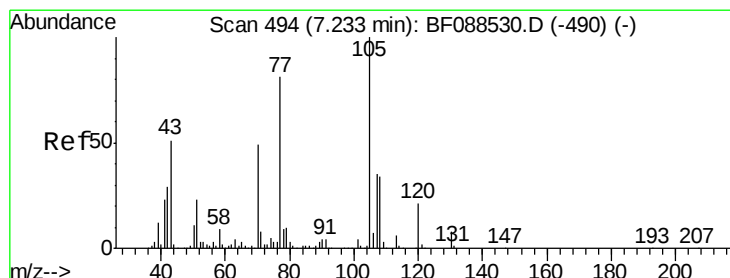
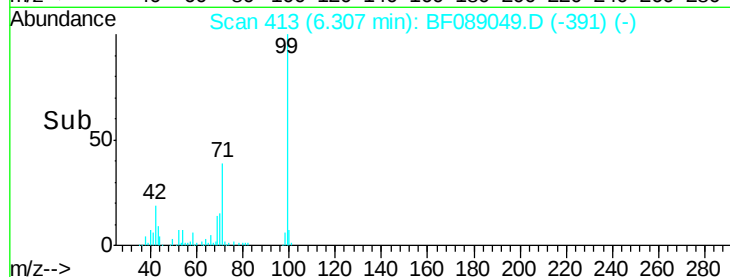
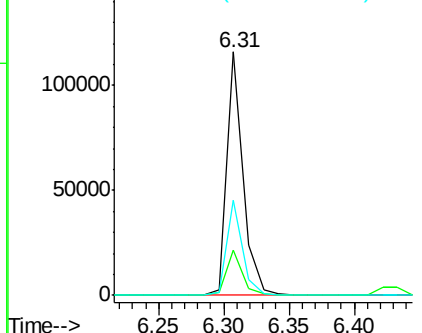
71 39.1 23.4 35.0#



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: 2.20 ng

RT: 7.22 min Scan# 493

Delta R.T. 0.08 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Tgt Ion: 70 Resp: 7864

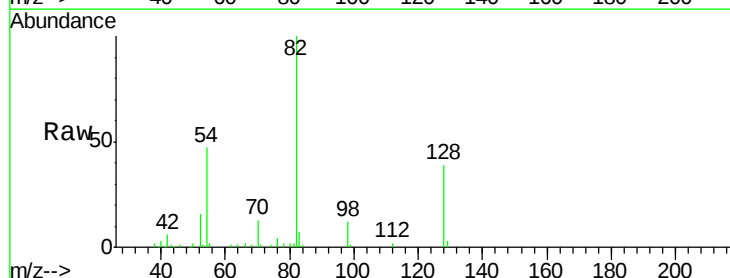
Ion Ratio Lower Upper

70 100

42 45.9 49.6 74.4#

101 0.0 7.1 10.7#

130 0.0 15.4 23.2#

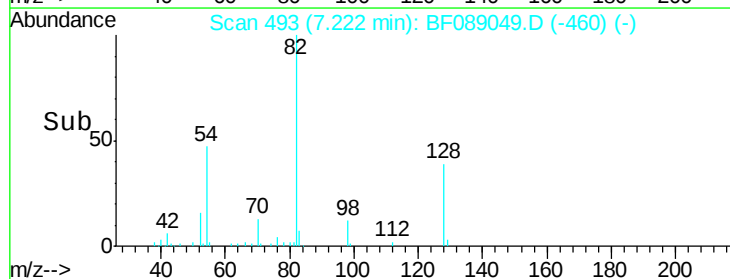
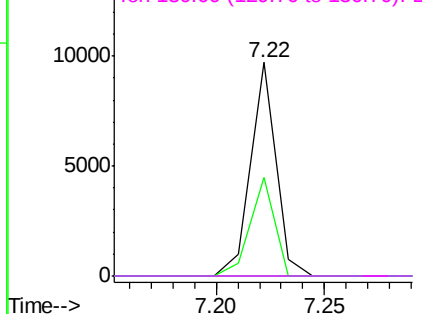


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.94 min Scan# 556

Delta R.T. -0.06 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 228021

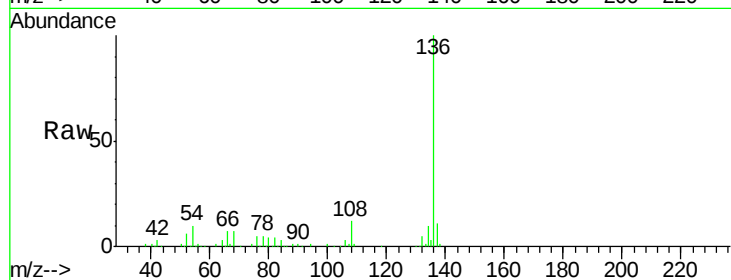
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 9.6 6.6 10.0

68 7.3 5.1 7.7

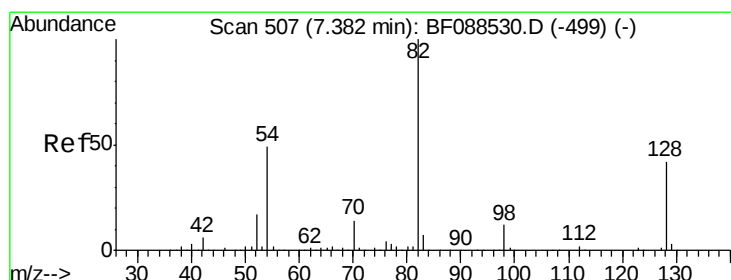
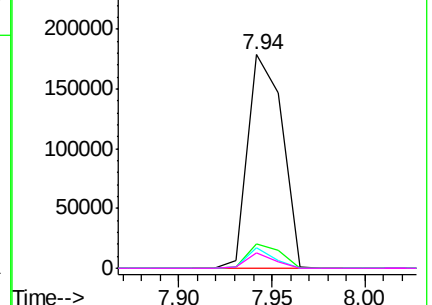
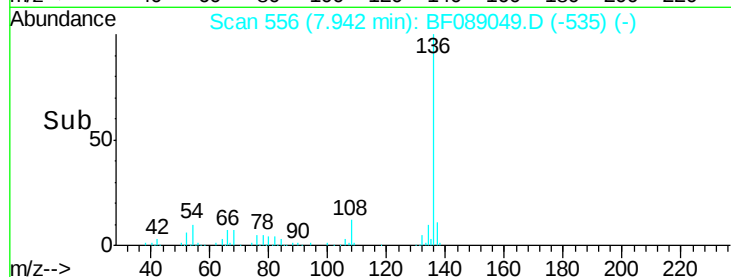


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.57 ng

RT: 7.22 min Scan# 493

Delta R.T. -0.06 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

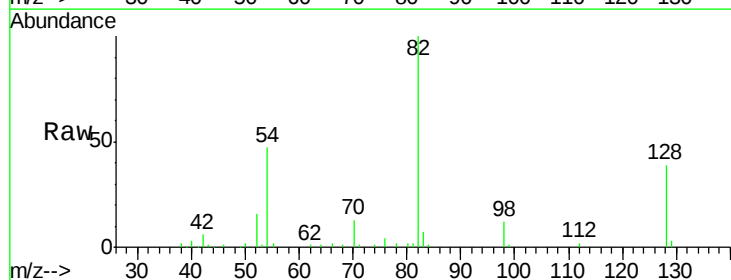
Tgt Ion: 82 Resp: 59050

Ion Ratio Lower Upper

82 100

128 38.6 35.9 53.9

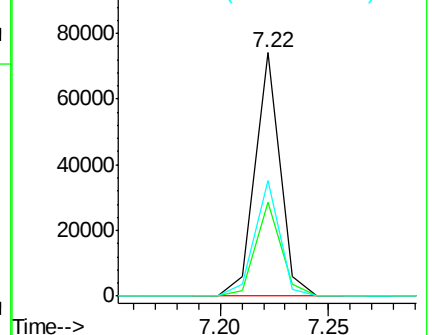
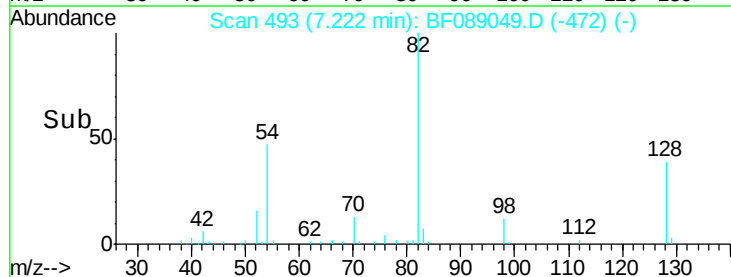
54 47.2 40.9 61.3

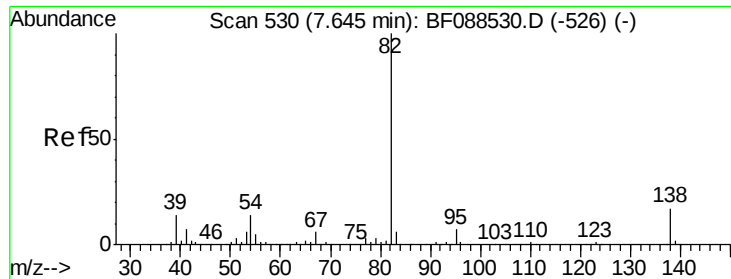


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 6.81 ng

RT: 7.22 min Scan# 493

Delta R.T. -0.32 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampleId :

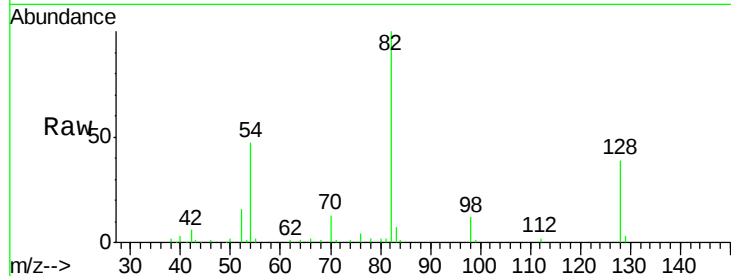
Tot Ion: 82 Resp: 54850

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

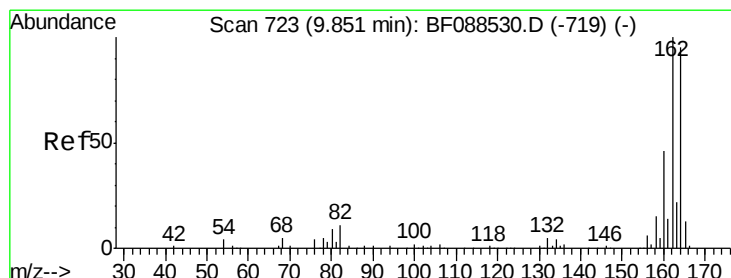
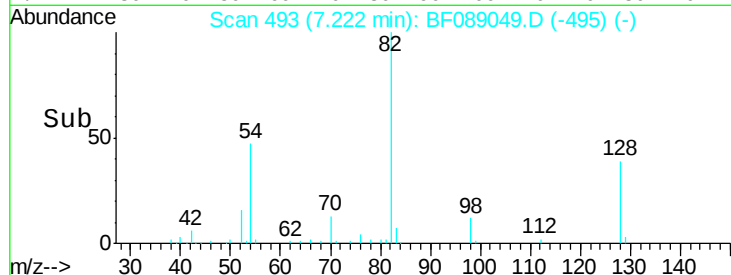
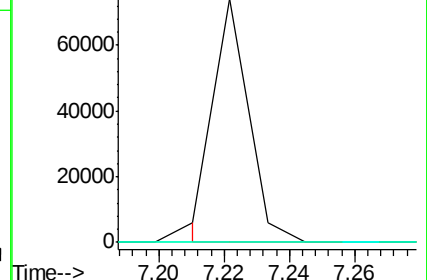
138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF088530.D (-526) (-)

Ion 95.00 (94.70 to 95.70): BF088530.D (-526) (-)

Ion 138.00 (137.70 to 138.70): BF088530.D (-526) (-)



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

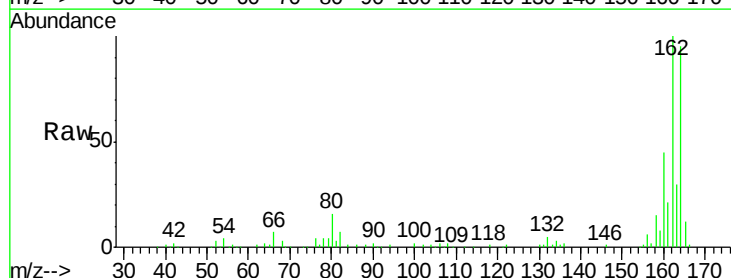
Tgt Ion: 164 Resp: 115128

Ion Ratio Lower Upper

164 100

162 105.6 85.4 128.2

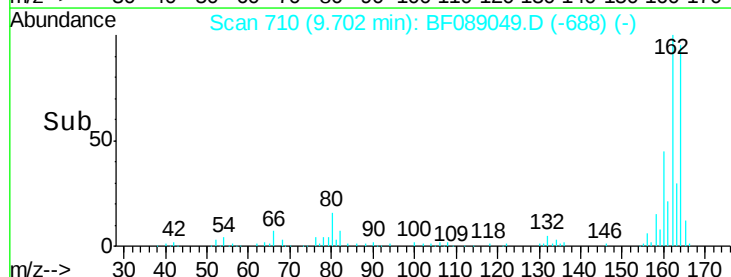
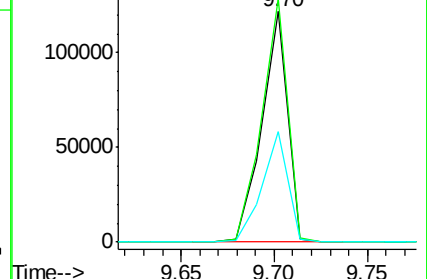
160 47.9 39.5 59.3



Abundance Ion 164.00 (163.70 to 164.70): BF088530.D (-719) (-)

Ion 162.00 (161.70 to 162.70): BF088530.D (-719) (-)

Ion 160.00 (159.70 to 160.70): BF088530.D (-719) (-)

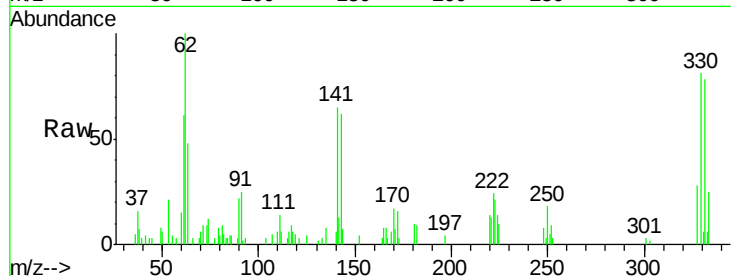




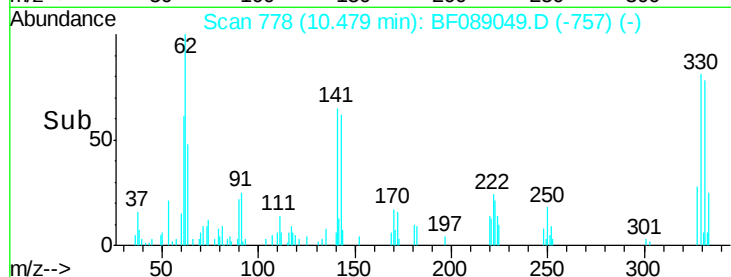
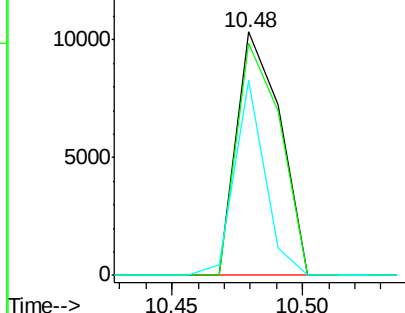
#41
 2,4,6-Tribromophenol
 Concen: 11.29 ng
 RT: 10.48 min Scan# 778
 Delta R.T. -0.06 min
 Lab File: BF089049.D
 Acq: 16 Jul 2016 12:06

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.8	0.0	0.0#
141	56.0	0.0	0.0#

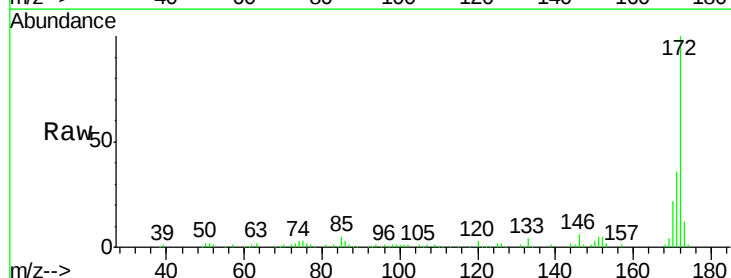


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

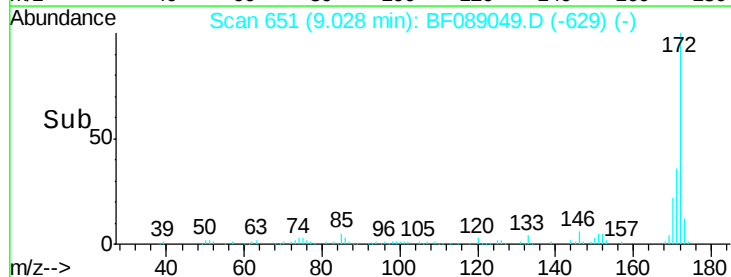
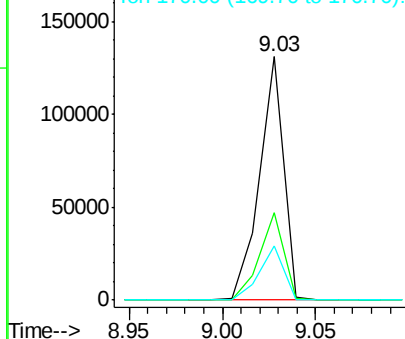


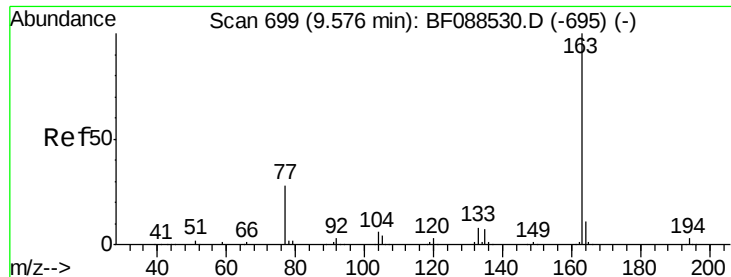
#44
 2-Fluorobiphenyl
 Concen: 16.03 ng
 RT: 9.03 min Scan# 651
 Delta R.T. -0.05 min
 Lab File: BF089049.D
 Acq: 16 Jul 2016 12:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	22.3	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

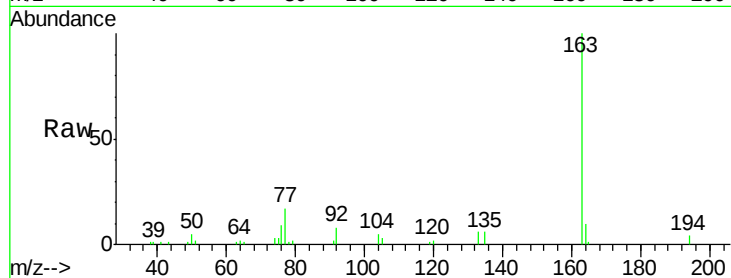




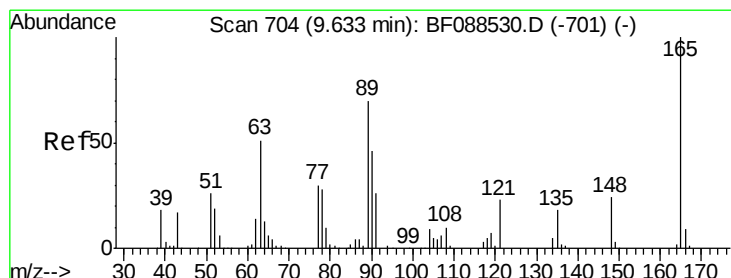
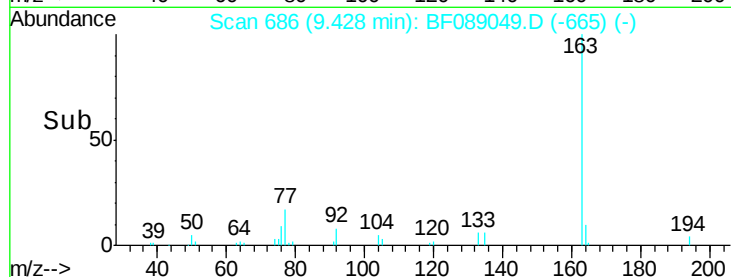
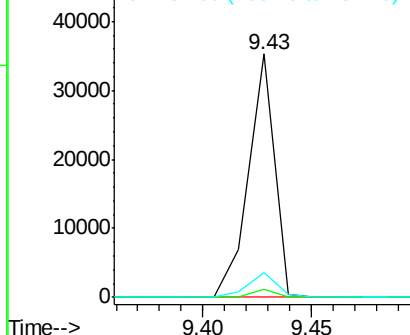
#49
Dimethylphthalate
Concen: 3.57 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089049.D
Acq: 16 Jul 2016 12:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 29310
Ion Ratio Lower Upper
163 100
194 3.5 2.8 4.2
164 10.3 8.3 12.5

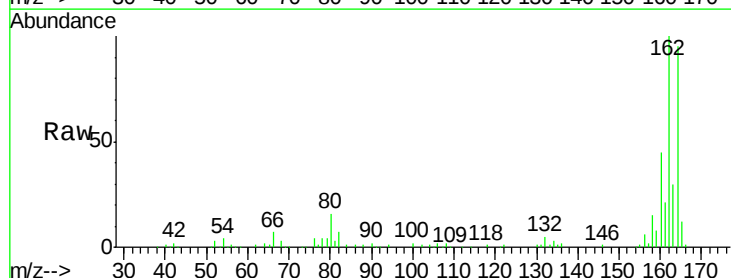


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

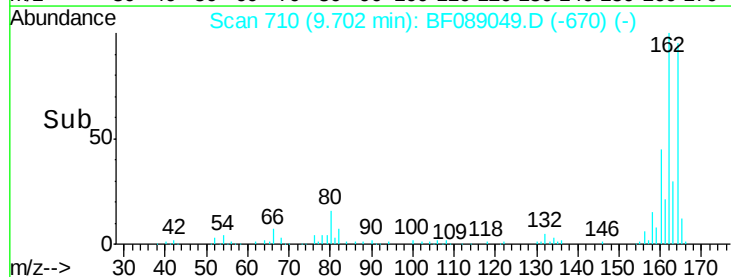
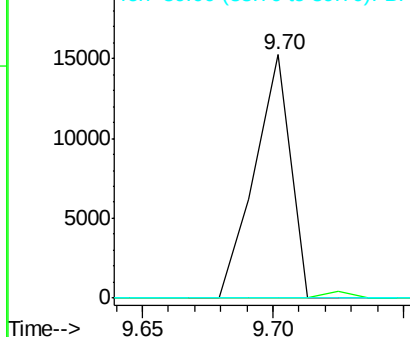


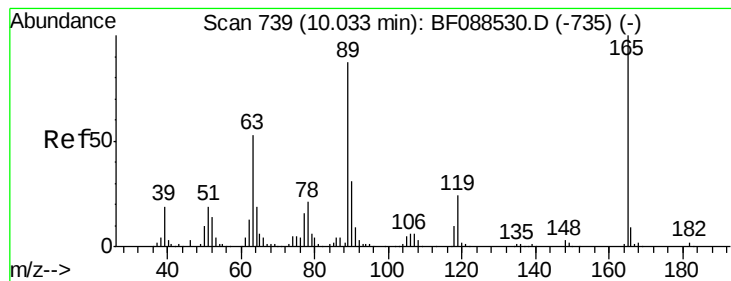
#50
2,6-Dinitrotoluene
Concen: 8.08 ng
RT: 9.70 min Scan# 710
Delta R.T. 0.16 min
Lab File: BF089049.D
Acq: 16 Jul 2016 12:06

Tgt Ion:165 Resp: 14690
Ion Ratio Lower Upper
165 100
63 0.0 28.1 42.1#
89 0.0 32.2 48.2#



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





#56

2,4-Dinitrotoluene

Concen: 6.18 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.24 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 14690

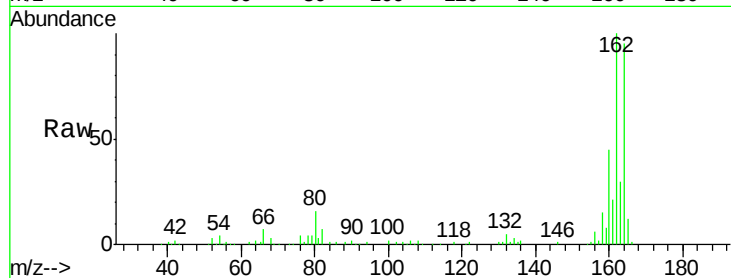
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

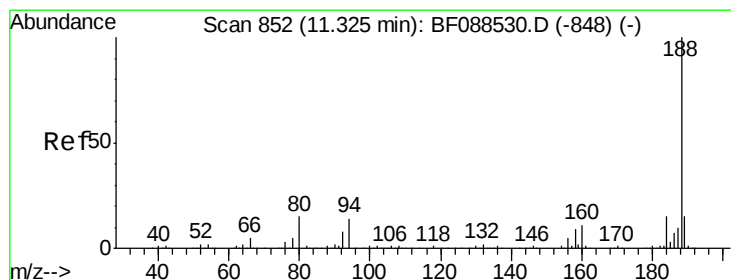
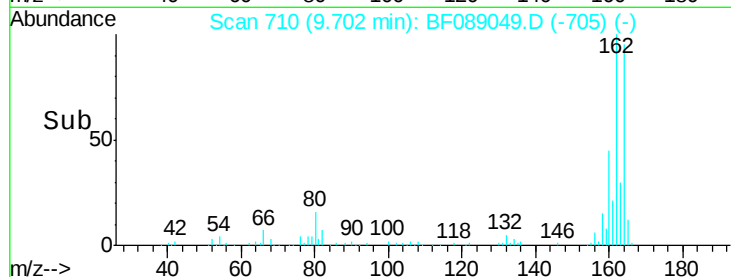
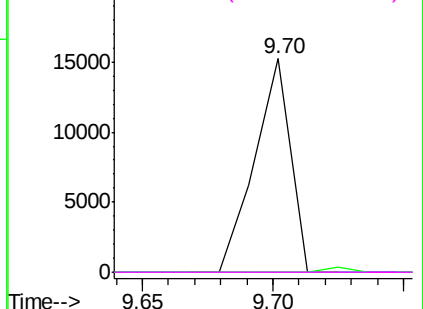


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.18 min Scan# 839

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

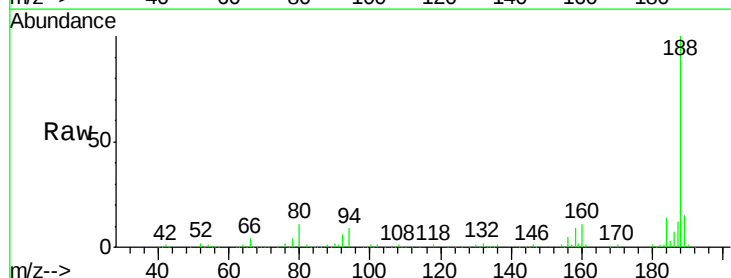
Tgt Ion:188 Resp: 184026

Ion Ratio Lower Upper

188 100

94 9.2 9.0 13.6

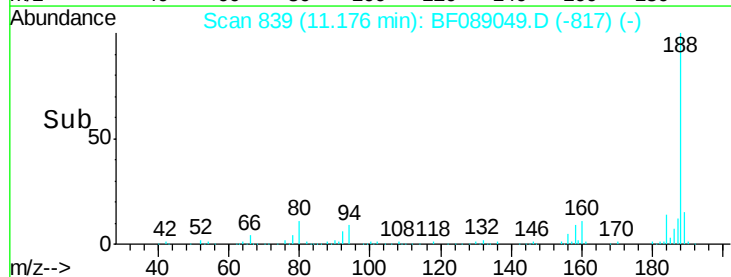
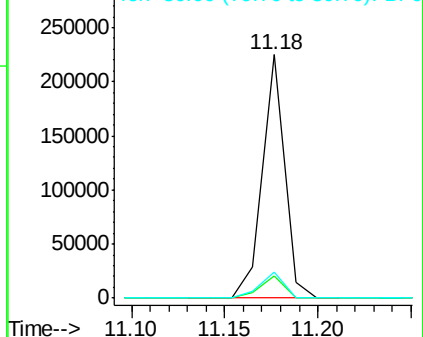
80 10.6 10.0 15.0

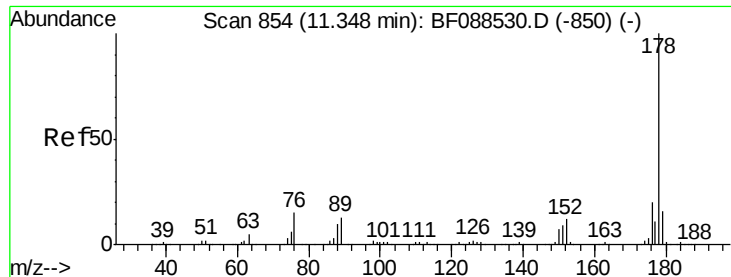


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 6.85 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampled :

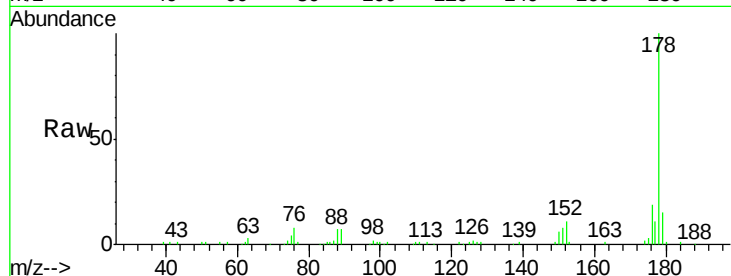
Tot Ion:178 Resp: 68927

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.6

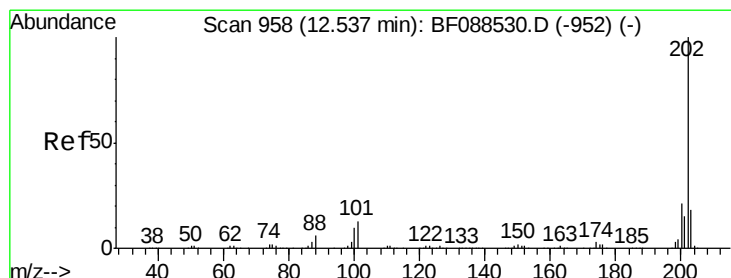
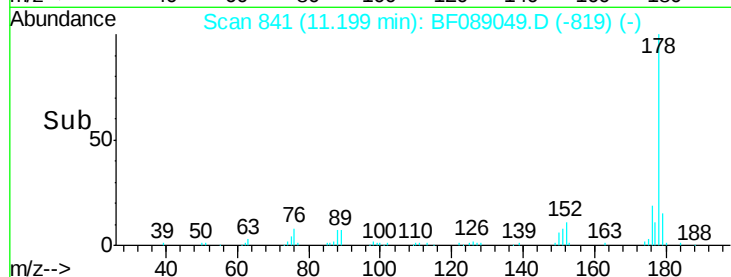
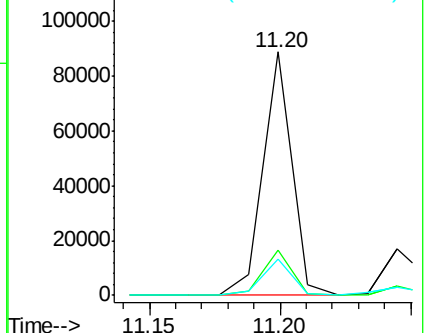
179 15.1 13.0 19.4



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: 12.21 ng

RT: 12.38 min Scan# 944

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

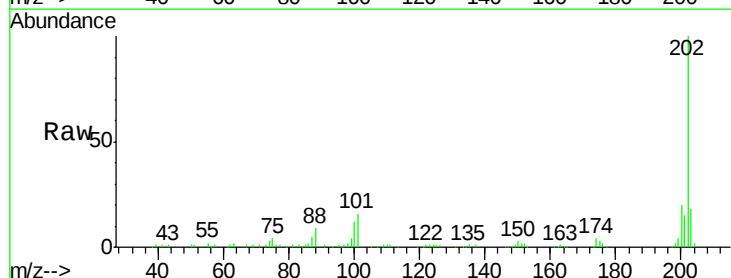
Tgt Ion:202 Resp: 124543

Ion Ratio Lower Upper

202 100

101 15.8 0.0 33.1

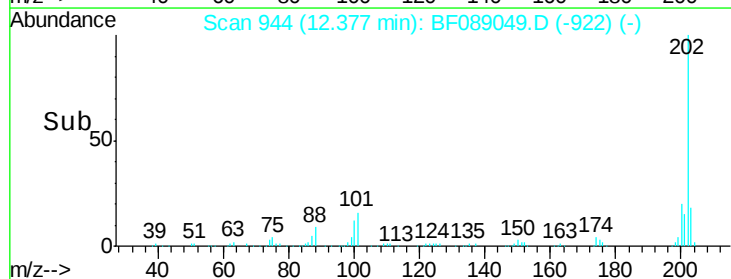
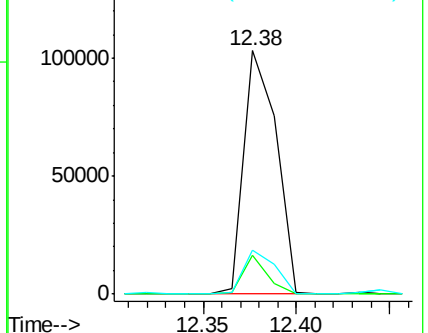
203 18.2 0.0 38.1

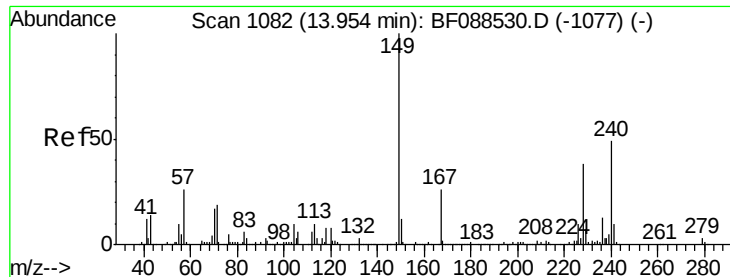


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampleId :

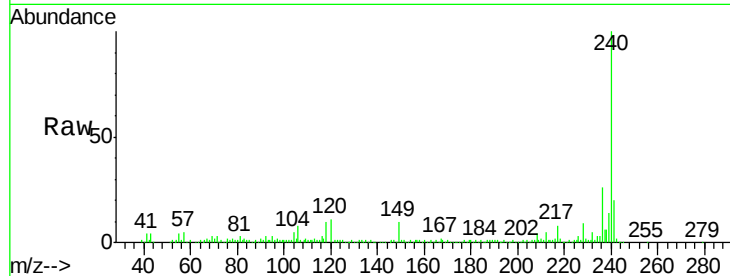
Tot Ion:240 Resp: 114081

Ion Ratio Lower Upper

240 100

120 11.4 6.8 10.2#

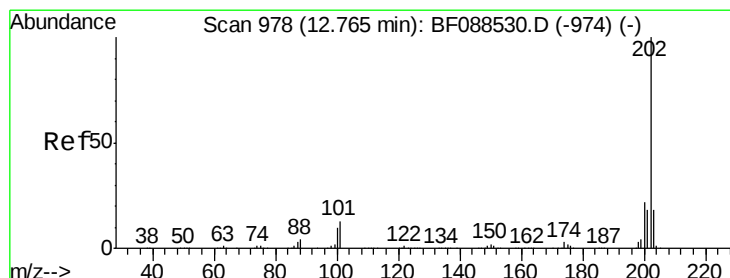
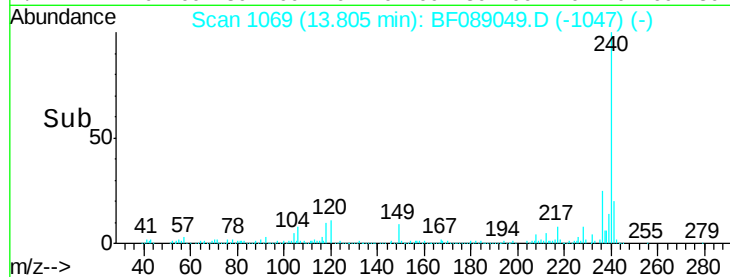
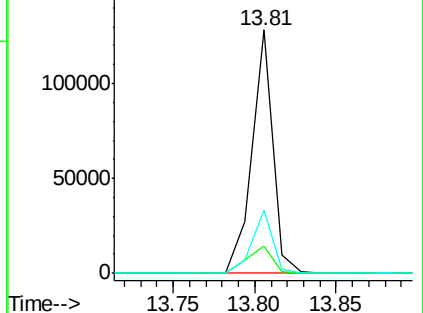
236 25.8 20.2 30.2



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: 11.13 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

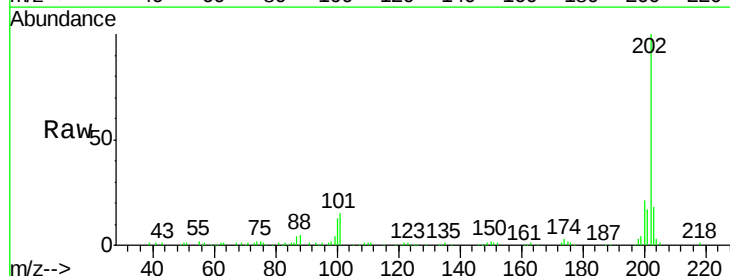
Tgt Ion:202 Resp: 107700

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

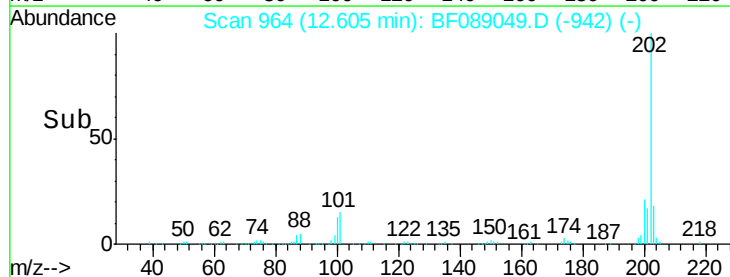
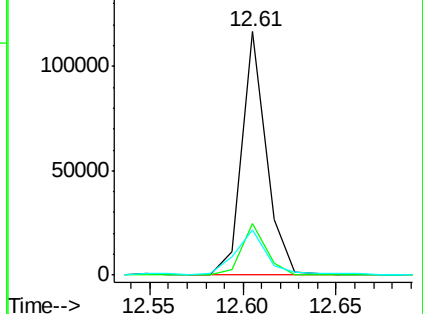
203 18.5 14.5 21.7

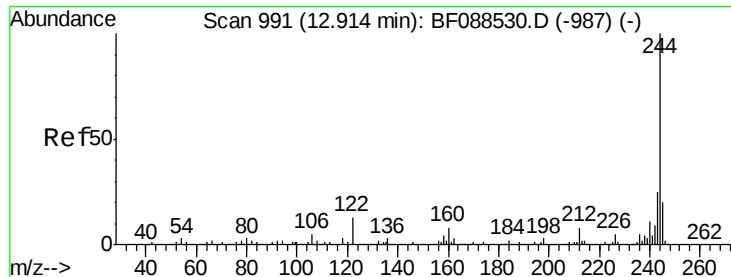


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

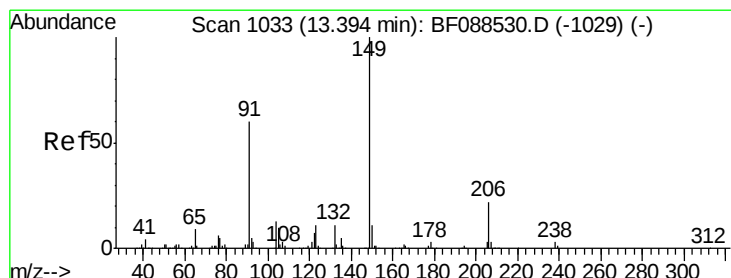
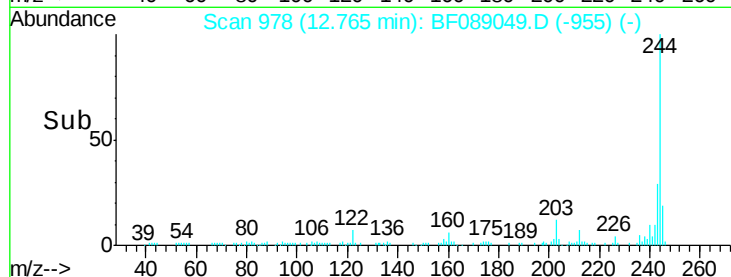
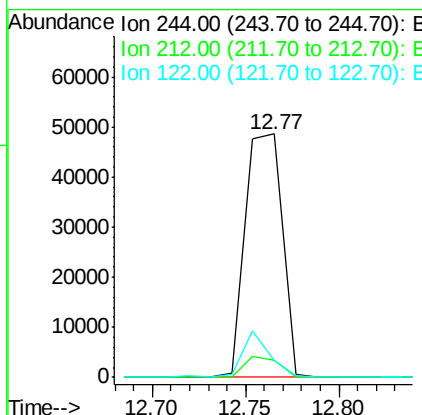
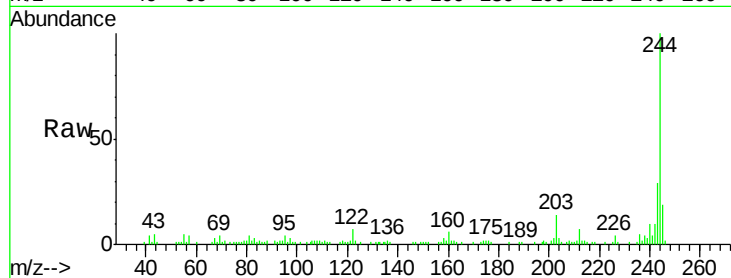




#78
 Terphenyl-d14
 Concen: 13.06 ng
 RT: 12.77 min Scan# 978
 Delta R.T. -0.03 min
 Lab File: BF089049.D
 Acq: 16 Jul 2016 12:06

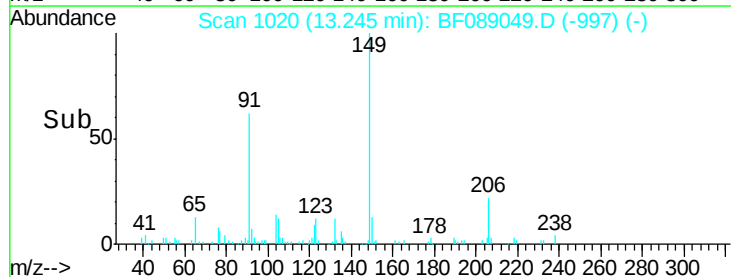
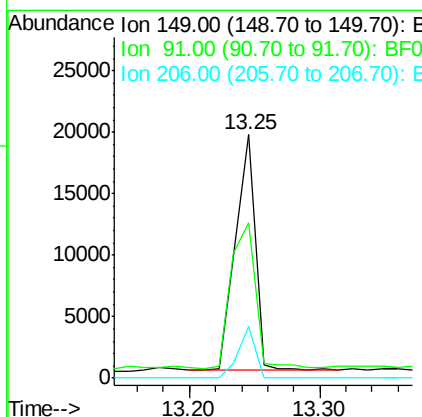
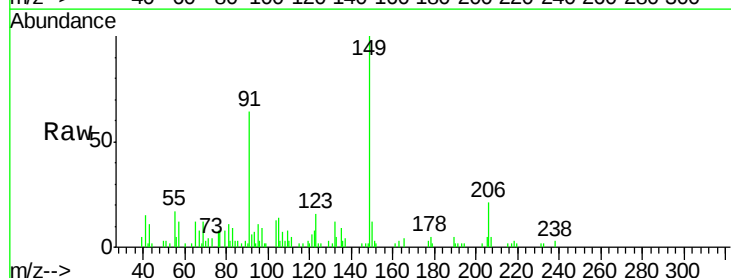
Instrument :
 BNA_F
 ClientSampleId :

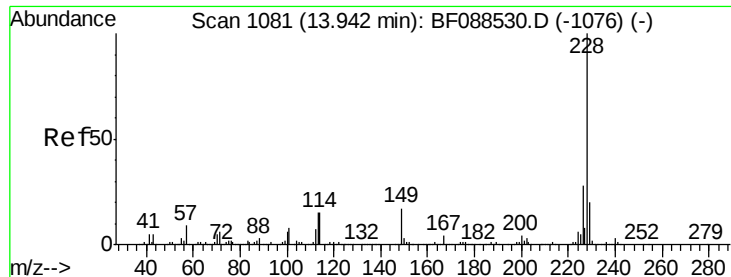
Tot Ion:244 Resp: 66889
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 7.0 11.2 16.8#



#79
 Butylbenzylphthalate
 Concen: 4.68 ng
 RT: 13.25 min Scan# 1020
 Delta R.T. -0.03 min
 Lab File: BF089049.D
 Acq: 16 Jul 2016 12:06

Tgt Ion:149 Resp: 20183
 Ion Ratio Lower Upper
 149 100
 91 63.6 48.0 72.0
 206 21.3 16.0 24.0





#80

Benzo(a)anthracene

Concen: 9.00 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

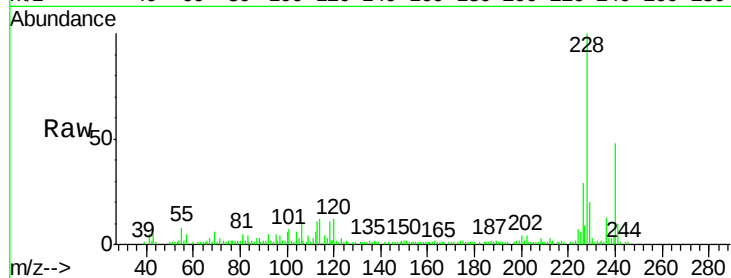
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 66111

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.3	33.5
229	19.9	16.0	24.0

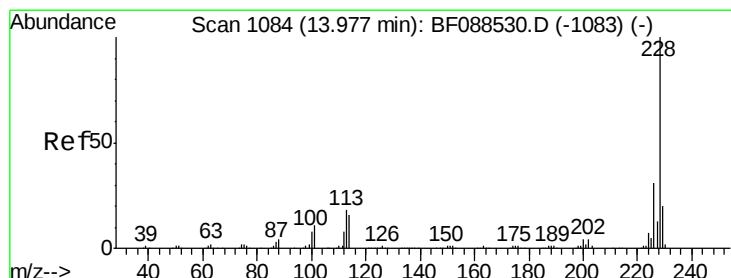
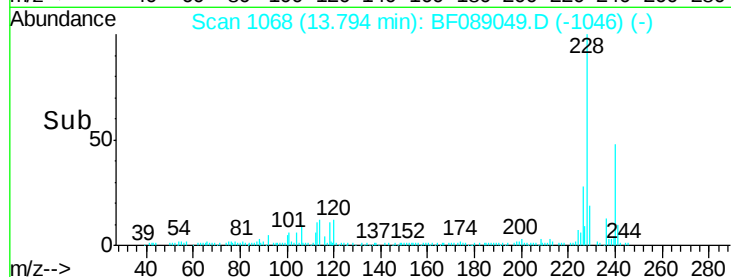
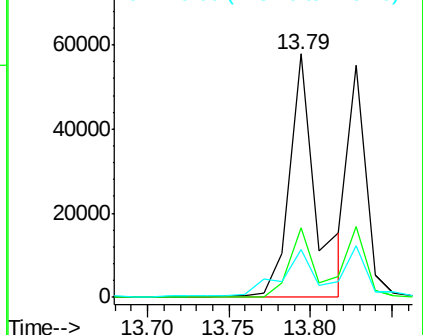


Abundance

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: 5.84 ng

RT: 13.83 min Scan# 1071

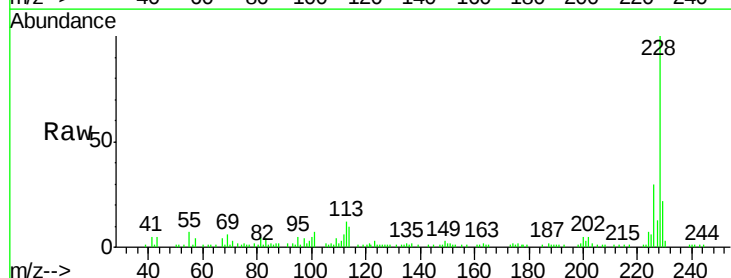
Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Tgt Ion:228 Resp: 42473

Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.4	38.2
229	22.0	16.3	24.5

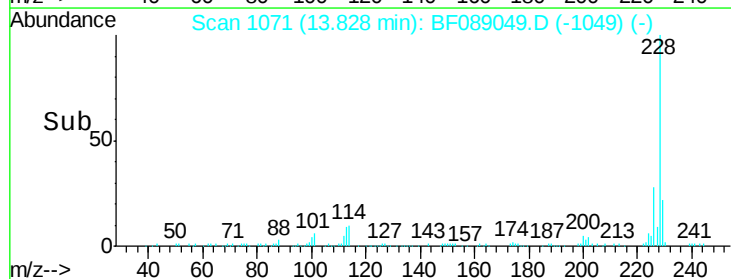
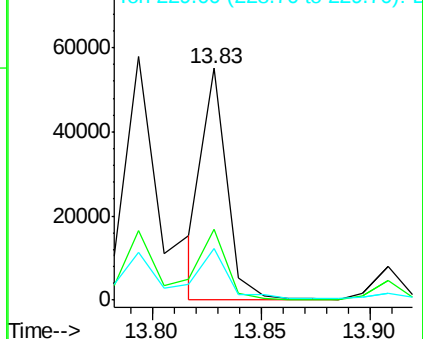


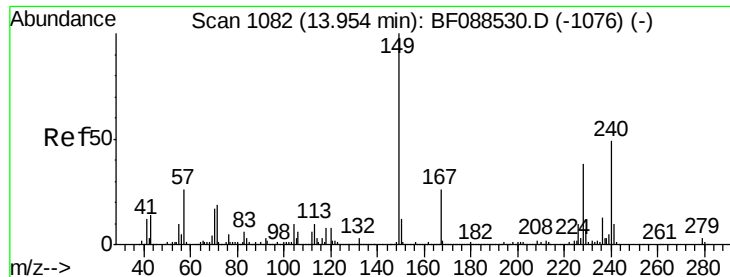
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

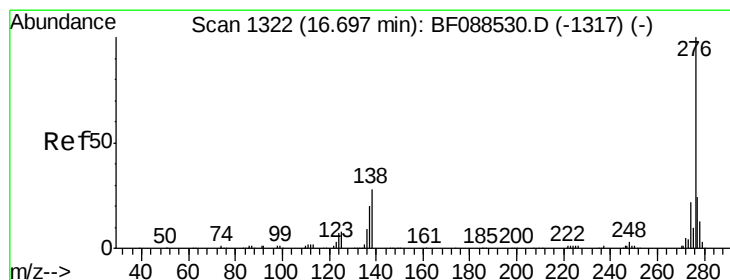
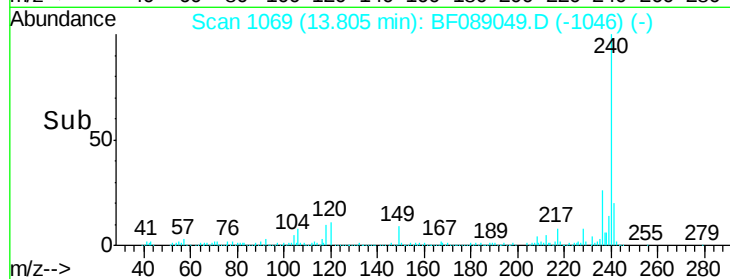
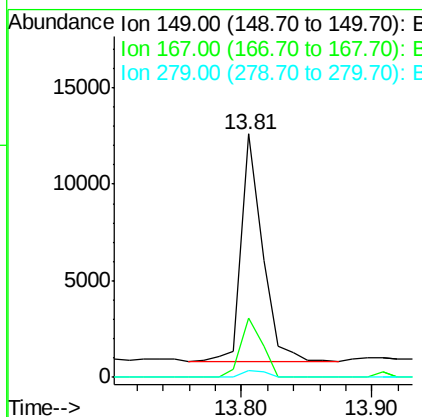
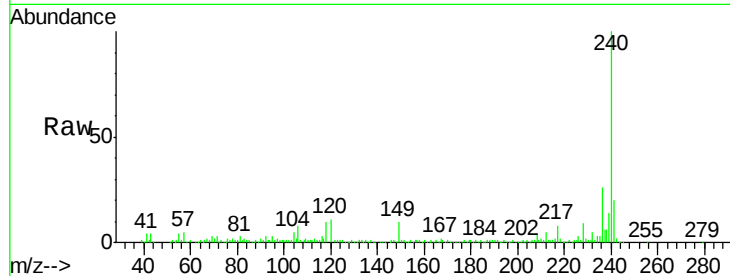




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.69 ng
 RT: 13.81 min Scan# 1069
 Delta R.T. -0.03 min
 Lab File: BF089049.D
 Acq: 16 Jul 2016 12:06

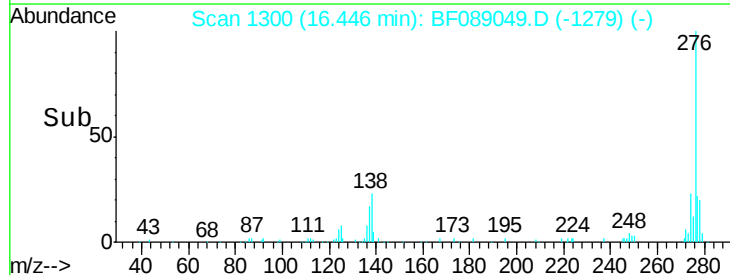
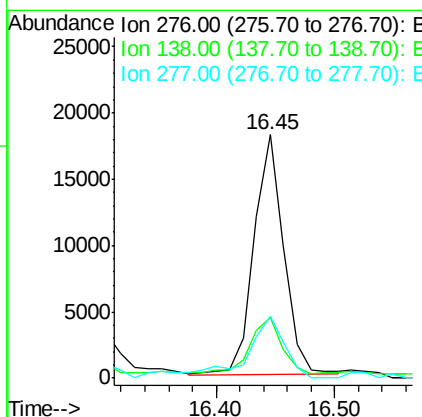
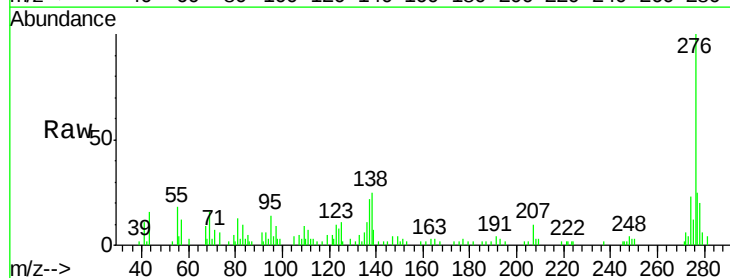
Instrument :
 BNA_F
 ClientSampleId :

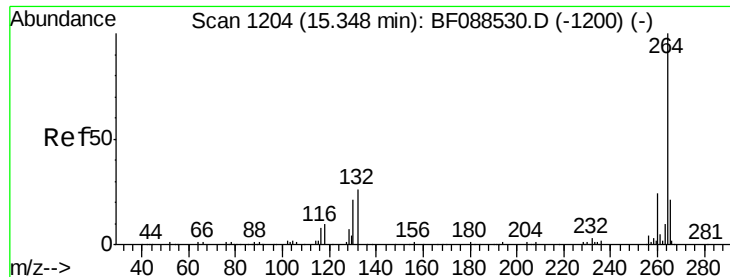
Tot Ion:149 Resp: 13257
 Ion Ratio Lower Upper
 149 100
 167 24.2 20.5 30.7
 279 2.6 2.0 3.0



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.65 ng
 RT: 16.45 min Scan# 1300
 Delta R.T. -0.06 min
 Lab File: BF089049.D
 Acq: 16 Jul 2016 12:06

Tgt Ion:276 Resp: 31612
 Ion Ratio Lower Upper
 276 100
 138 32.3 0.0 0.0#
 277 35.0 0.0 0.0#

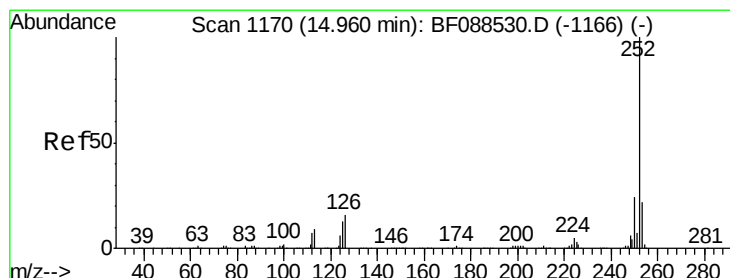
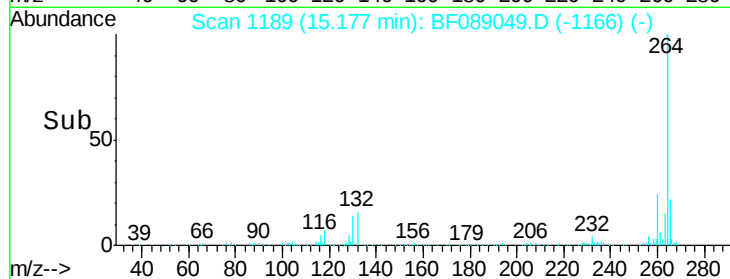
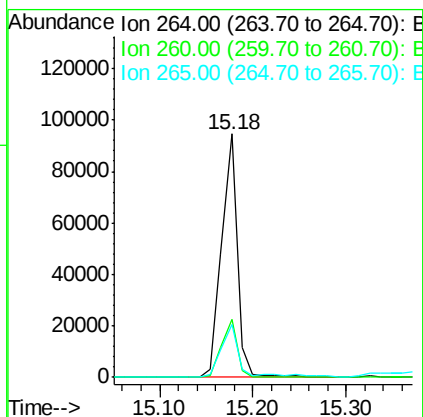
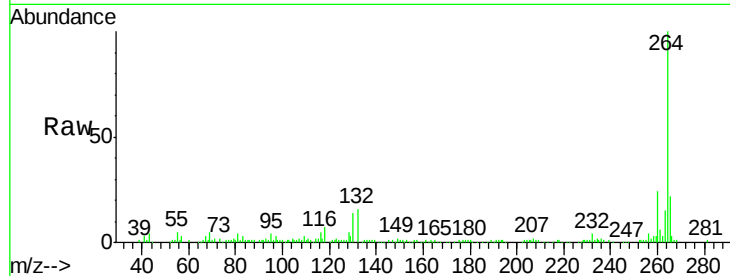




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.03 min
Lab File: BF089049.D
Acq: 16 Jul 2016 12:06

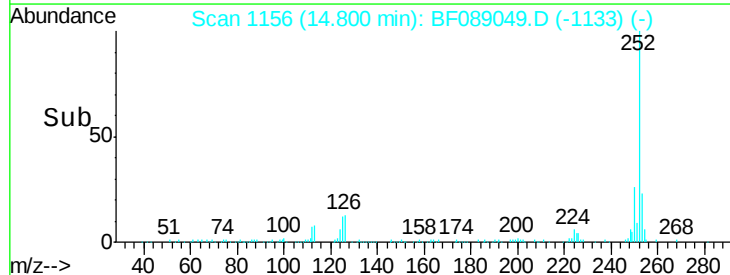
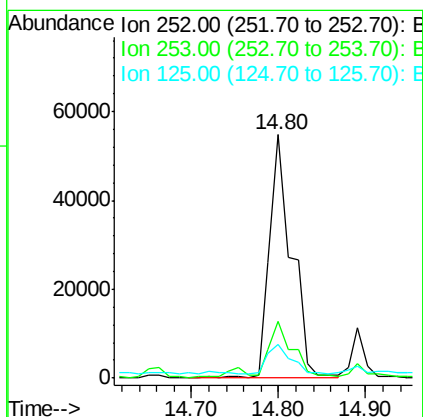
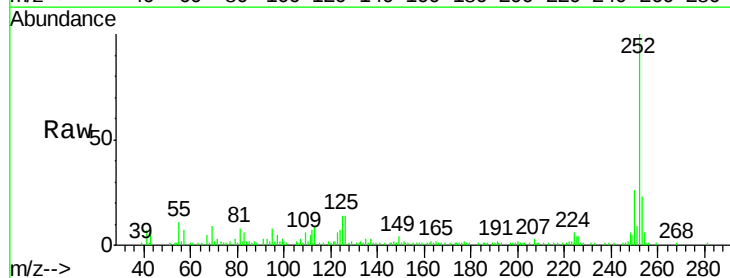
Instrument :
BNA_F
ClientSampleId :

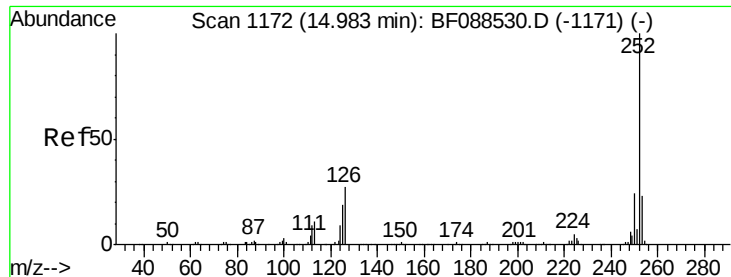
Tot Ion:264 Resp: 110702
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 21.8 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 14.00 ng
RT: 14.80 min Scan# 1156
Delta R.T. -0.03 min
Lab File: BF089049.D
Acq: 16 Jul 2016 12:06

Tgt Ion:252 Resp: 97231
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 14.0 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 16.08 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.07 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

Instrument :

BNA_F

ClientSampleId :

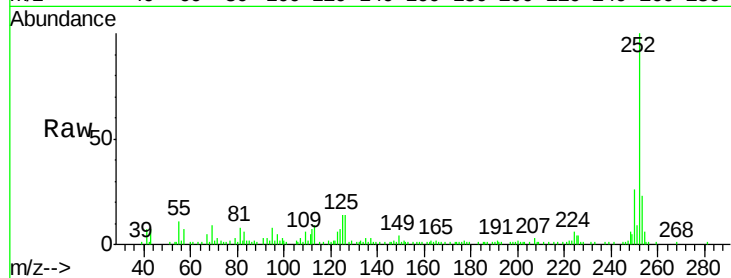
Tot Ion:252 Resp: 97231

Ion Ratio Lower Upper

252 100

253 23.2 18.0 27.0

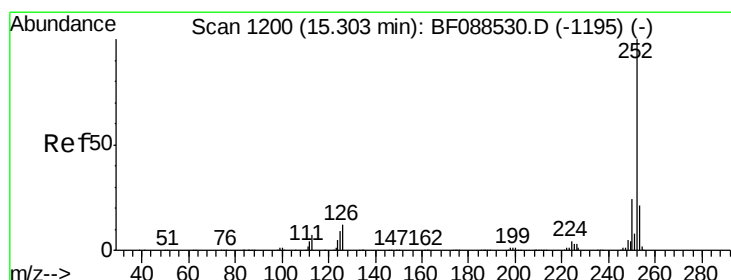
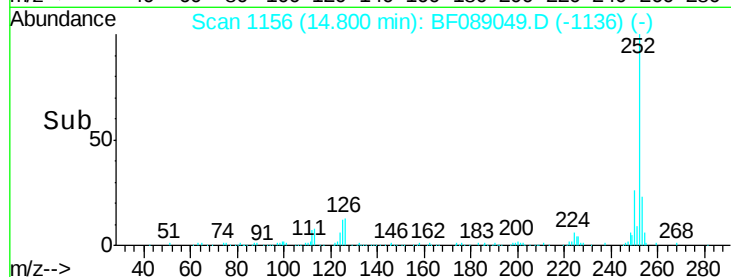
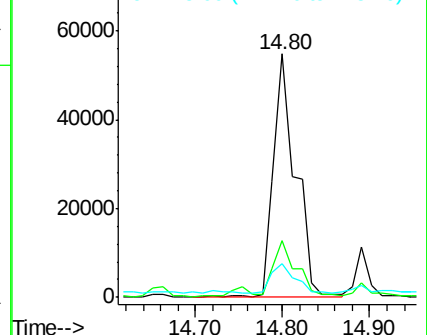
125 14.0 11.2 16.8



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: 8.62 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.05 min

Lab File: BF089049.D

Acq: 16 Jul 2016 12:06

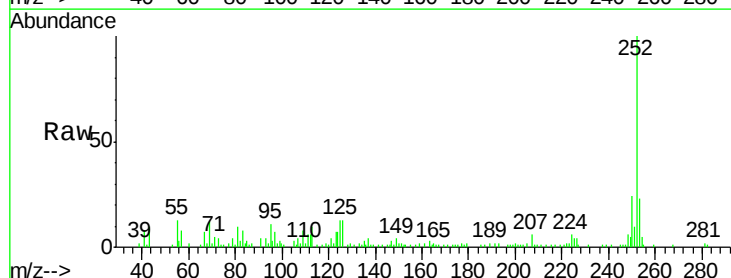
Tgt Ion:252 Resp: 50674

Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

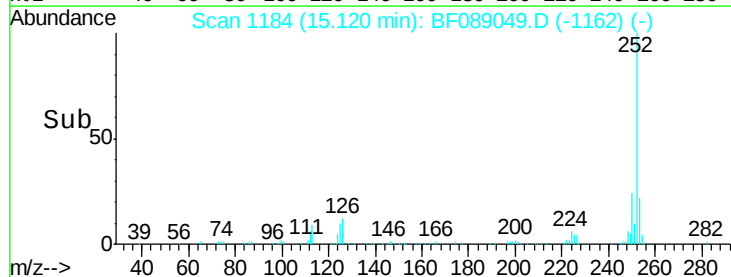
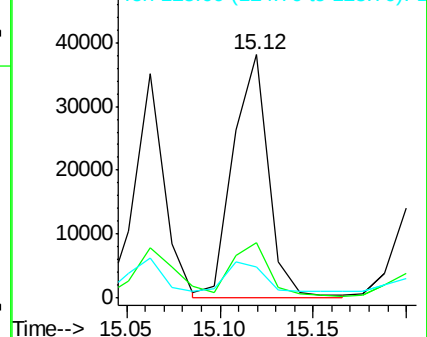
125 12.9 12.5 18.7

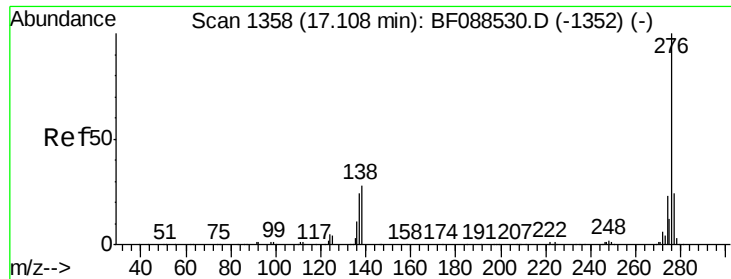


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

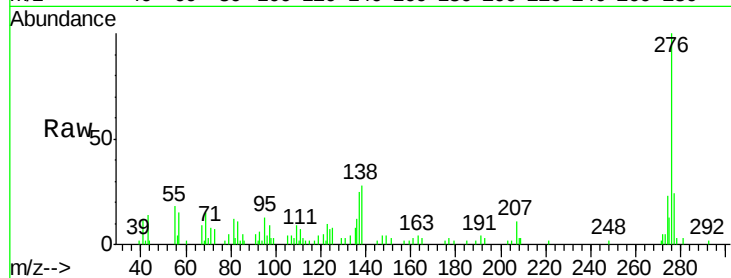




#91
 Benzo(a,h,i)perylene
 Concen: 6.08 ng
 RT: 16.82 min Scan# 1333
 Delta R.T. -0.07 min
 Lab File: BF089049.D
 Acq: 16 Jul 2016 12:06

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.9	28.3
138	27.6	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

