

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080416\
 Data File : BF089621.D
 Acq On : 5 Aug 2016 9:45
 Operator : UM/SJ
 Sample : H4287-10
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-59-9.6-19.0

Quant Time: Aug 05 13:39:49 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF080416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 05 01:39:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	46123	20.00	ng	0.00
21) Naphthalene-d8	9.47	136	199168	20.00	ng	0.00
38) Acenaphthene-d10	12.30	164	97265	20.00	ng	0.00
63) Phenanthrene-d10	14.69	188	183280	20.00	ng	-0.01
75) Chrysene-d12	18.39	240	119236	20.00	ng	0.00
86) Perylene-d12	20.05	264	85410	20.00	ng	0.00

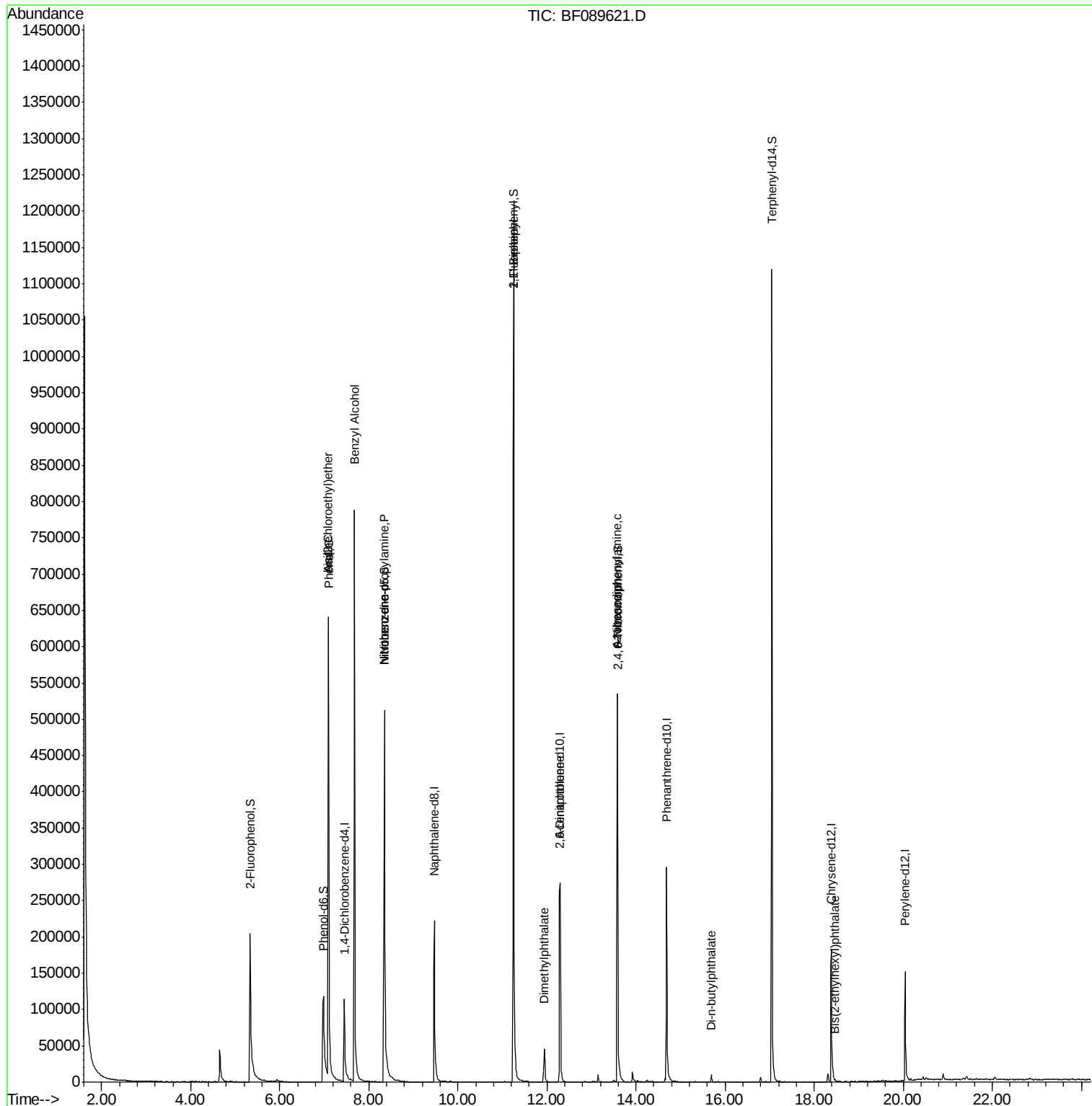
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.34	112	160373	58.28	ng	0.02
7) Phenol-d6	6.98	99	141561	37.92	ng	0.00
23) Nitrobenzene-d5	8.35	82	316227	87.82	ng	-0.01
41) 2,4,6-Tribromophenol	13.59	330	103138	128.49	ng	0.00
44) 2-Fluorobiphenyl	11.26	172	618687	82.67	ng	0.00
78) Terphenyl-d14	17.05	244	458519	75.91	ng	0.00

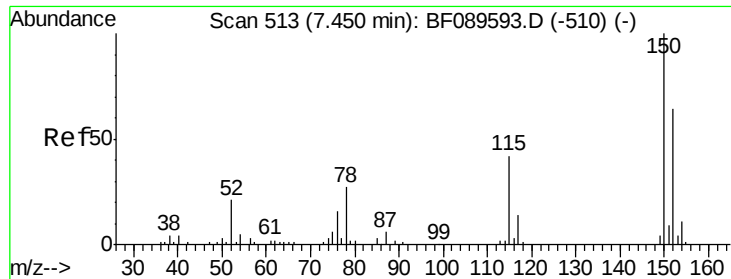
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Aniline	7.08	93	221	0.05	ng	# 1
10) Phenol	7.10	94	619	0.16	ng	# 1
11) bis(2-Chloroethyl)ether	7.08	93	221	0.07	ng	# 1
15) Benzyl Alcohol	7.68	79	5180	2.12	ng	# 47
19) n-Nitroso-di-n-propylamine	8.35	70	37628	13.95	ng	# 82
24) Nitrobenzene	8.35	77	402	0.12	ng	# 42
45) 1,1'-Biphenyl	11.26	154	914	0.10	ng	# 1
49) Dimethylphthalate	11.94	163	32831	4.31	ng	100
50) 2,6-Dinitrotoluene	12.28	165	10700	7.06	ng	# 24
62) Azobenzene	13.58	77	563	0.07	ng	# 4
65) n-Nitrosodiphenylamine	13.58	169	3941	0.64	ng	# 37
73) Di-n-butylphthalate	15.69	149	1116	0.09	ng	# 79
83) Bis(2-ethylhexyl)phthalate	18.47	149	1186	0.19	ng	# 55

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

```
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.45 min Scan# 513

Delta R.T. 0.00 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

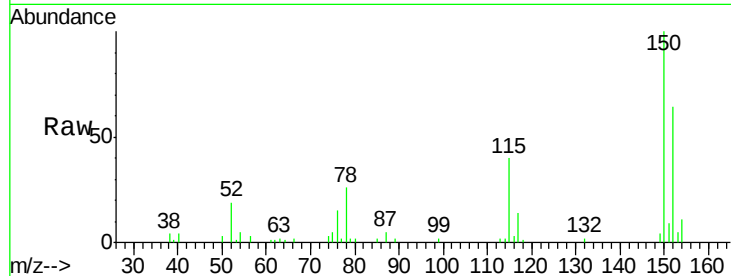
Tot Ion:152 Resp: 46123

Ion Ratio Lower Upper

152 100

150 155.8 125.5 188.3

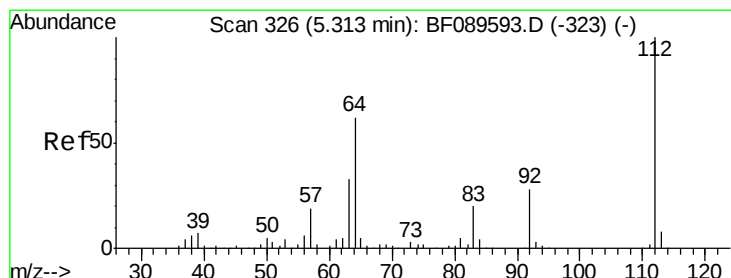
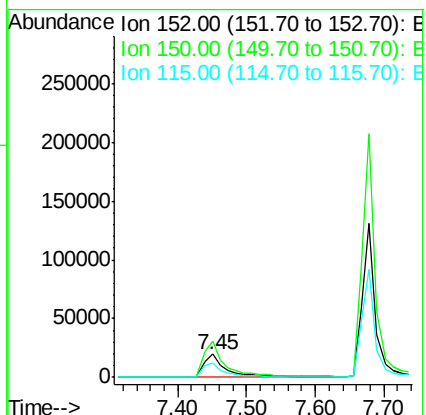
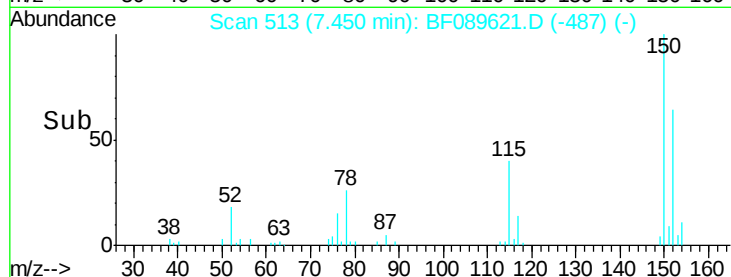
115 63.0 52.0 78.0



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: 58.28 ng

RT: 5.34 min Scan# 328

Delta R.T. 0.02 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

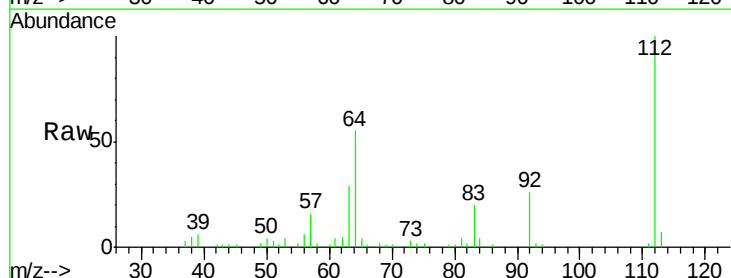
Tgt Ion:112 Resp: 160373

Ion Ratio Lower Upper

112 100

64 54.9 49.9 74.9

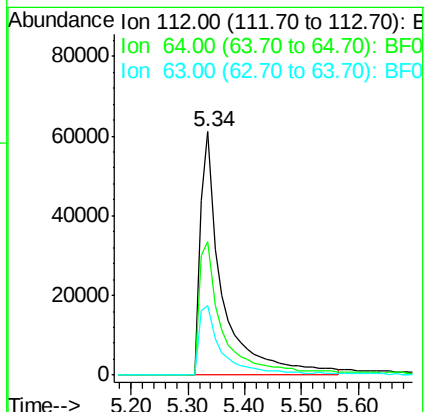
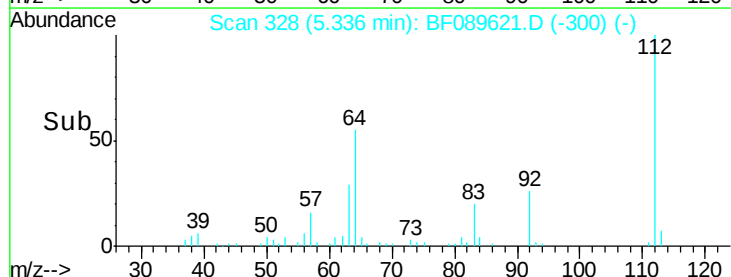
63 28.6 26.1 39.1

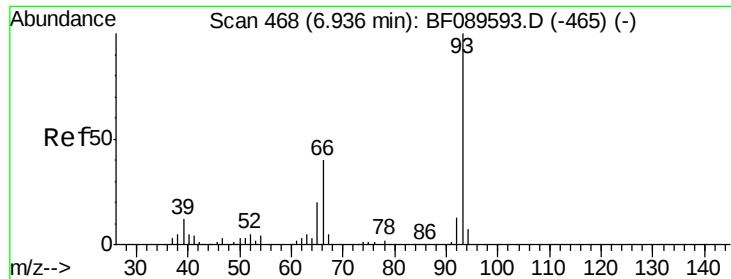


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#6

Aniline

Concen: 0.05 ng

RT: 7.08 min Scan# 481

Delta R.T. 0.15 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

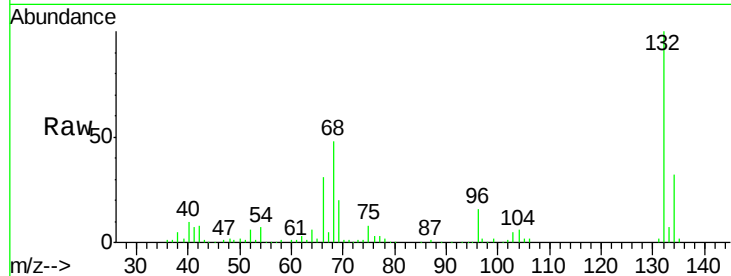
Tot Ion: 93 Resp: 221

Ion Ratio Lower Upper

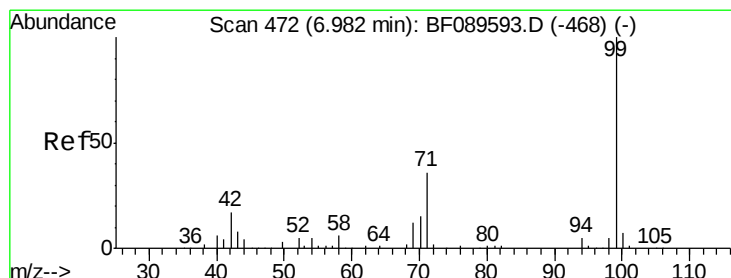
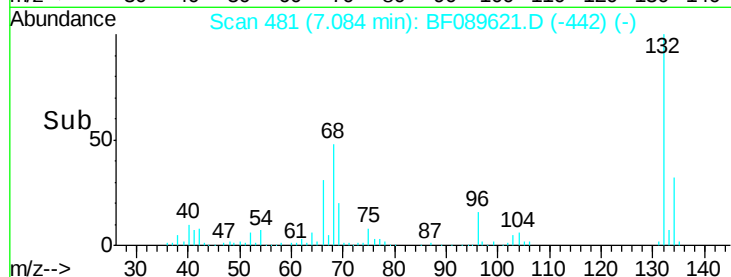
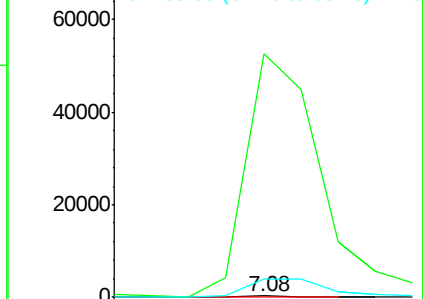
93 100

66 16332.9 32.2 48.2#

65 1272.7 15.8 23.8#



Abundance Ion 93.00 (92.70 to 93.70): BF0
Ion 66.00 (65.70 to 66.70): BF0
Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 37.92 ng

RT: 6.98 min Scan# 472

Delta R.T. 0.00 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

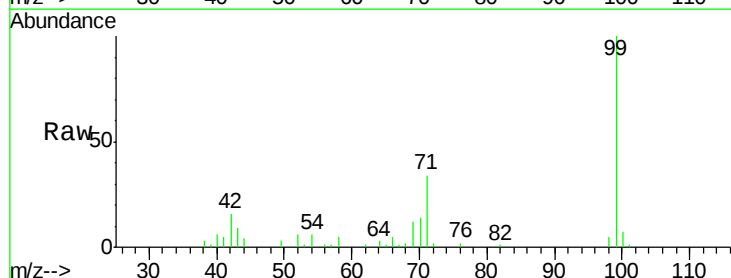
Tgt Ion: 99 Resp: 141561

Ion Ratio Lower Upper

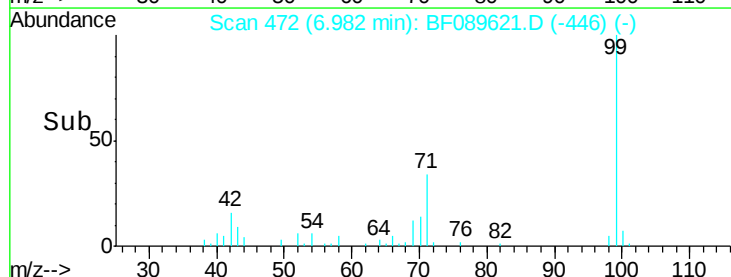
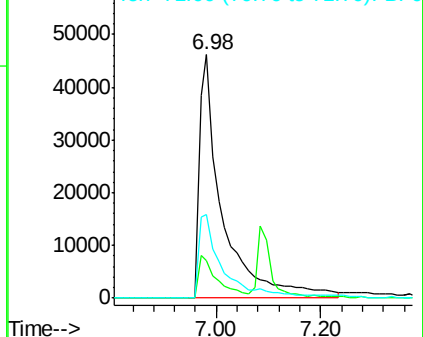
99 100

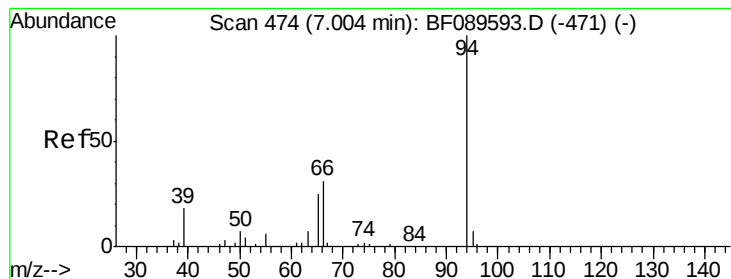
42 15.6 13.7 20.5

71 34.4 29.0 43.4



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0





#10

Phenol

Concen: 0.16 ng

RT: 7.10 min Scan# 482

Delta R.T. 0.09 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

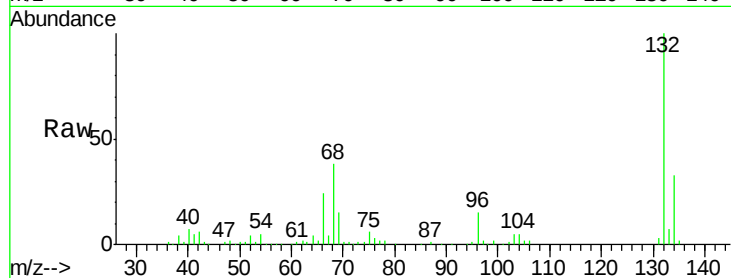
Tot Ion: 94 Resp: 619

Ion Ratio Lower Upper

94 100

65 876.7 11.0 51.0#

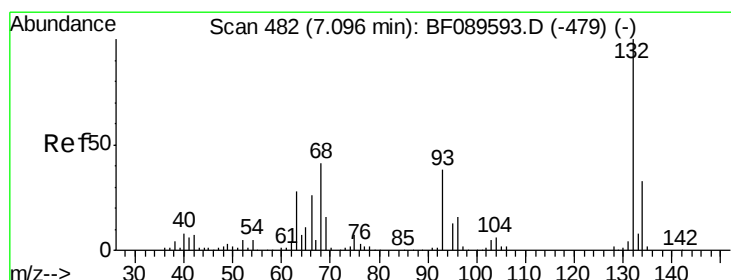
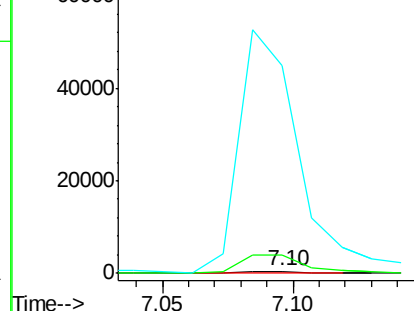
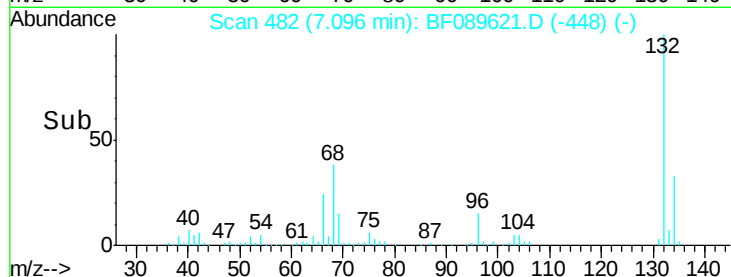
66 9603.4 27.4 67.4#



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#11

bis(2-Chloroethyl)ether

Concen: 0.07 ng

RT: 7.08 min Scan# 481

Delta R.T. -0.01 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

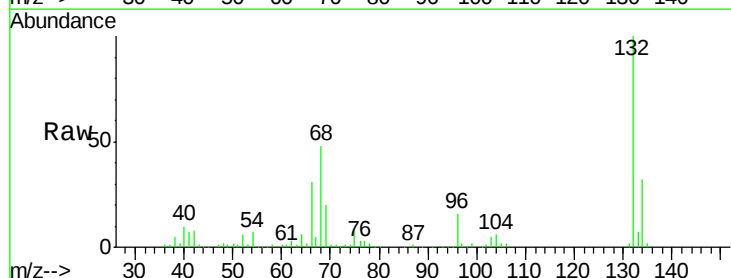
Tgt Ion: 93 Resp: 221

Ion Ratio Lower Upper

93 100

63 649.4 52.2 92.2#

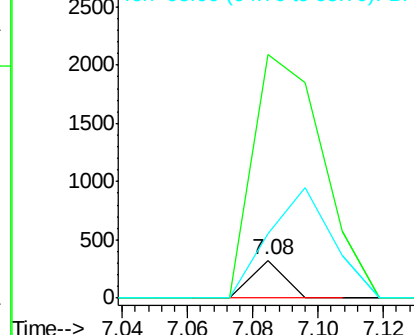
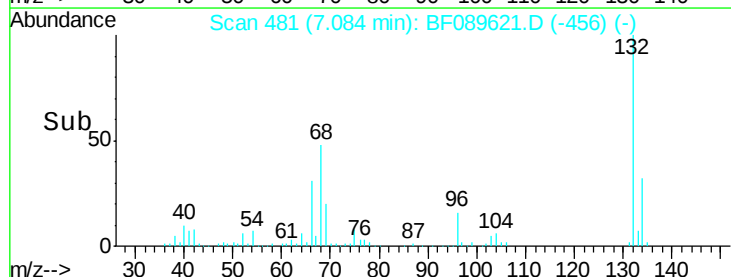
95 173.0 13.1 53.1#

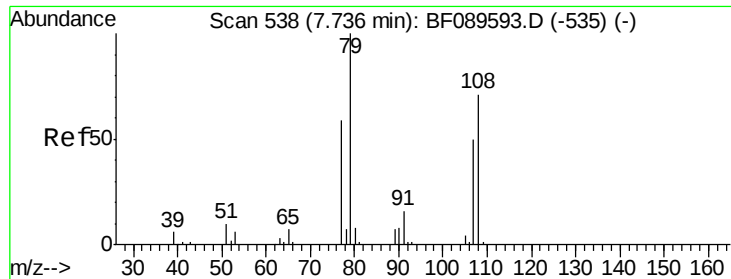


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

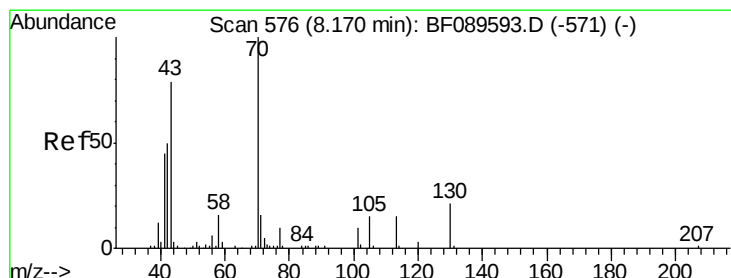
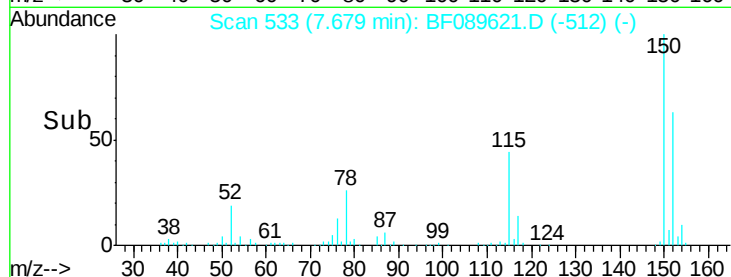
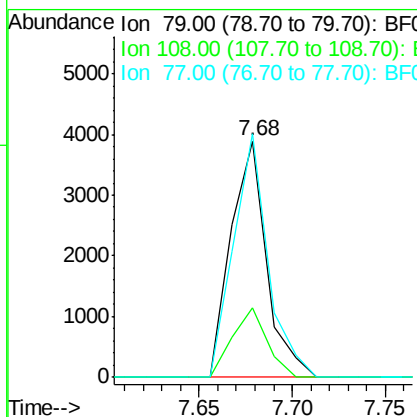
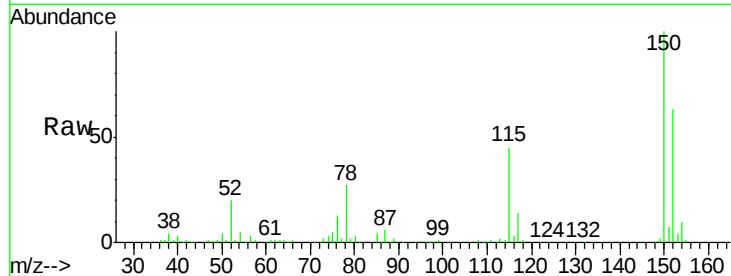




#15
Benzyl Alcohol
Concen: 2.12 ng
RT: 7.68 min Scan# 533
Delta R.T. -0.06 min
Lab File: BF089621.D
Acq: 5 Aug 2016 9:45

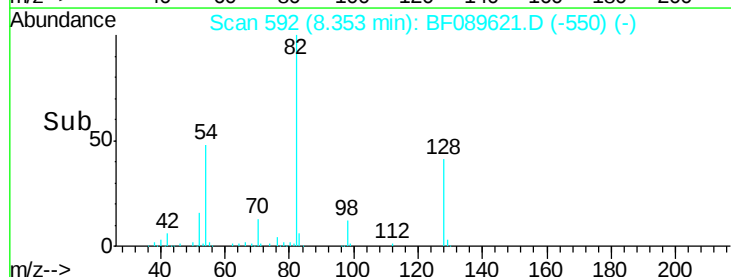
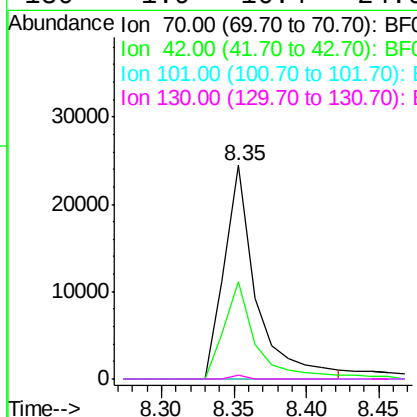
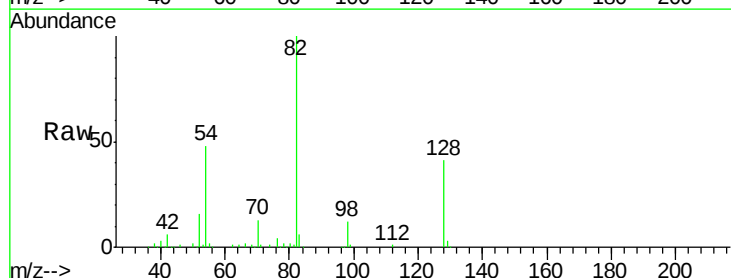
Instrument :
BNA_F
ClientSampleId :
GW-59-9.6-19.0

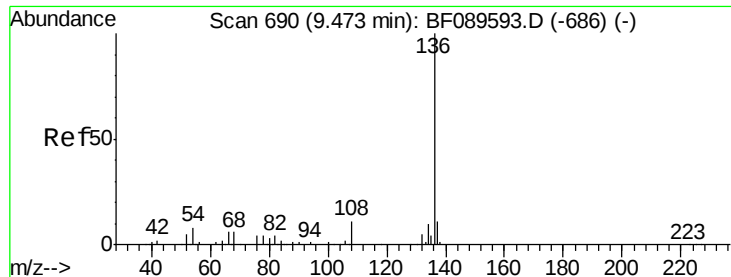
Tot Ion: 79 Resp: 5180
Ion Ratio Lower Upper
79 100
108 29.7 58.3 87.5#
77 103.2 48.7 73.1#



#19
n-Nitroso-di-n-propylamine
Concen: 13.95 ng
RT: 8.35 min Scan# 592
Delta R.T. 0.18 min
Lab File: BF089621.D
Acq: 5 Aug 2016 9:45

Tgt Ion: 70 Resp: 37628
Ion Ratio Lower Upper
70 100
42 45.3 40.2 60.2
101 0.0 7.8 11.6#
130 1.9 16.4 24.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.47 min Scan# 690

Delta R.T. 0.00 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

Tot Ion:136 Resp: 199168

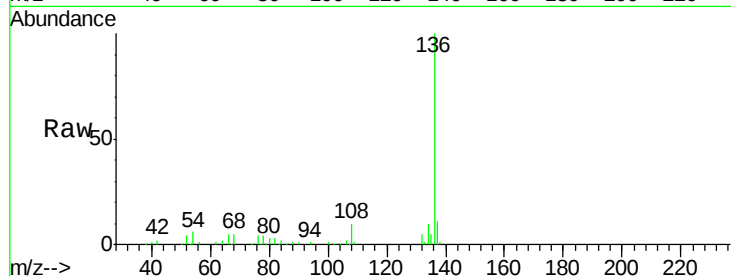
Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

54 6.3 6.0 9.0

68 5.1 4.6 6.8

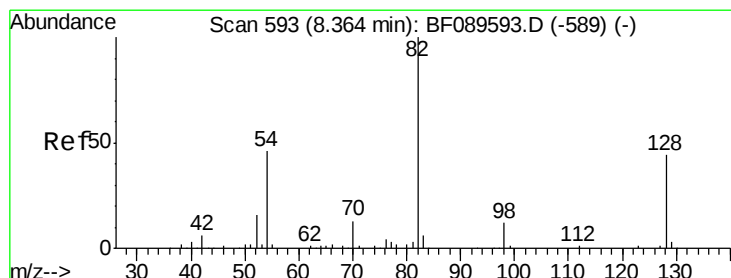
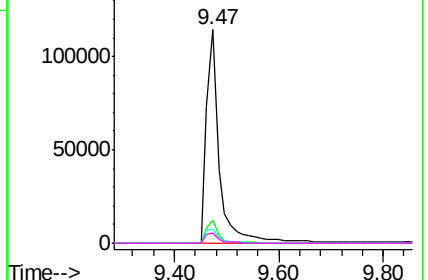
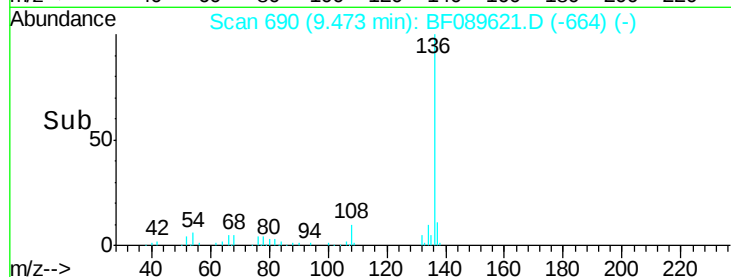


Abundance Ion 136.00 (135.70 to 136.70): E

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: 87.82 ng

RT: 8.35 min Scan# 592

Delta R.T. -0.01 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

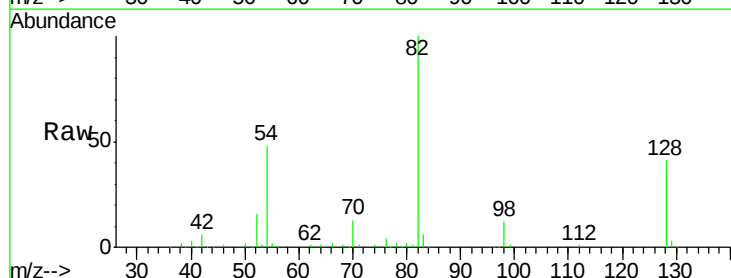
Tgt Ion: 82 Resp: 316227

Ion Ratio Lower Upper

82 100

128 41.3 35.4 53.0

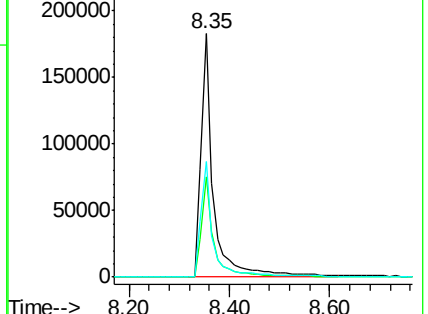
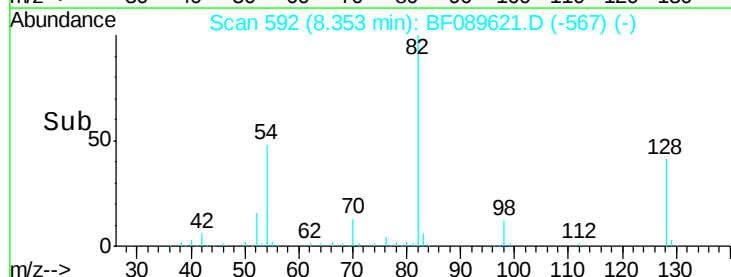
54 47.6 36.4 54.6

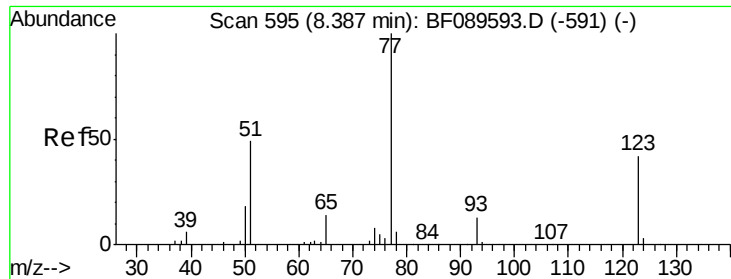


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

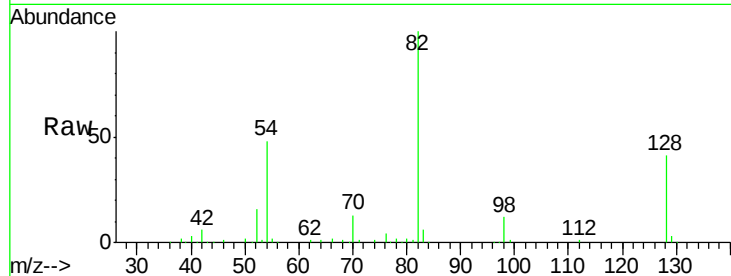




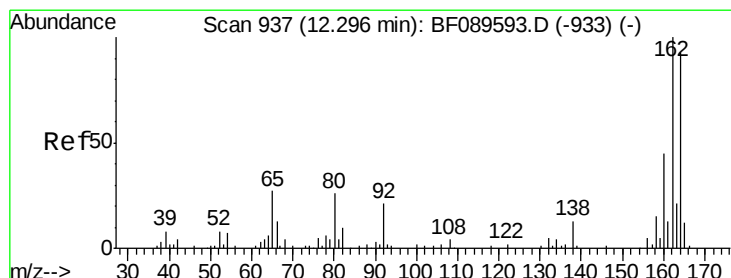
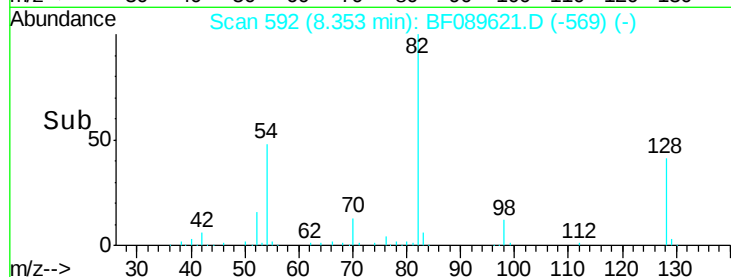
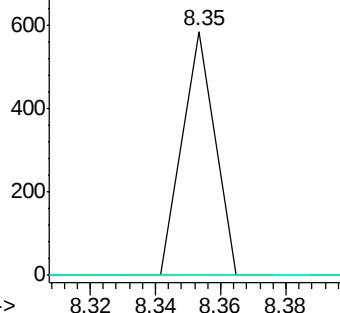
#24
 Nitrobenzene
 Concen: 0.12 ng
 RT: 8.35 min Scan# 592
 Delta R.T. -0.03 min
 Lab File: BF089621.D
 Acq: 5 Aug 2016 9:45

Instrument :
 BNA_F
 ClientSampleId :
 GW-59-9.6-19.0

Tot Ion	Ratio	Lower	Upper
77	100		
123	0.0	32.6	49.0#
65	0.0	11.0	16.6#

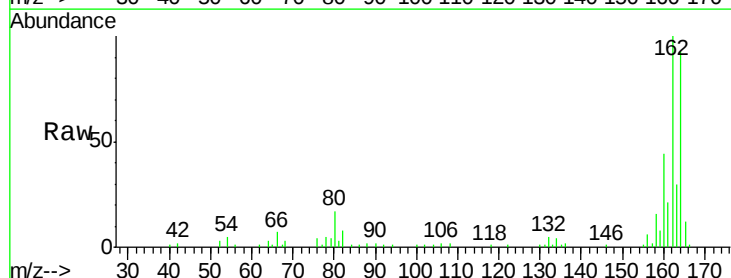


Abundance Ion 77.00 (76.70 to 77.70): BF0
 Ion 123.00 (122.70 to 123.70): E
 Ion 65.00 (64.70 to 65.70): BF0

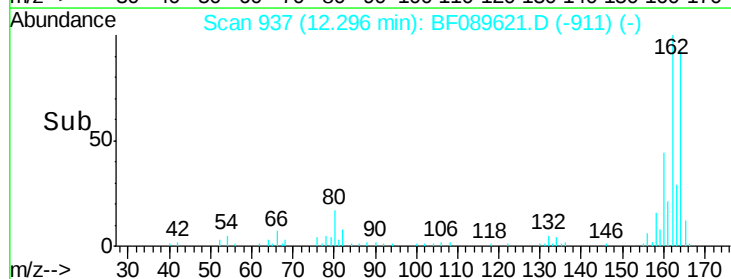
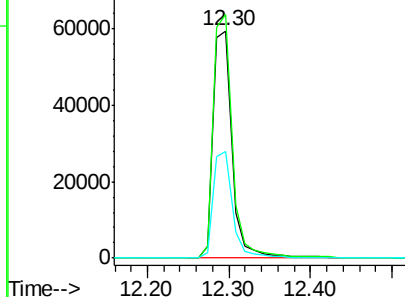


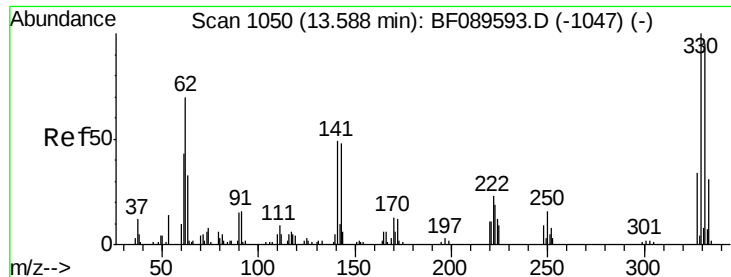
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.30 min Scan# 937
 Delta R.T. 0.00 min
 Lab File: BF089621.D
 Acq: 5 Aug 2016 9:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.0	85.7	128.5
160	47.0	38.2	57.4



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

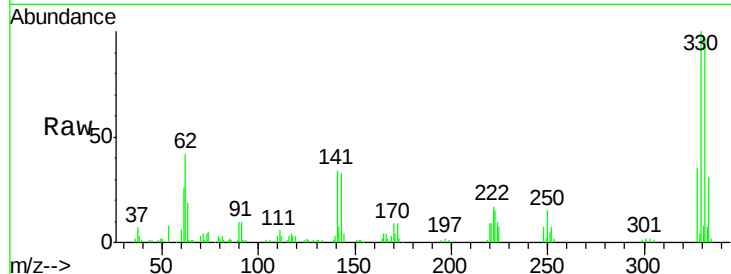




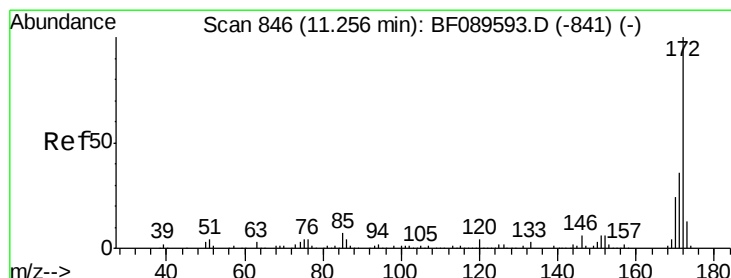
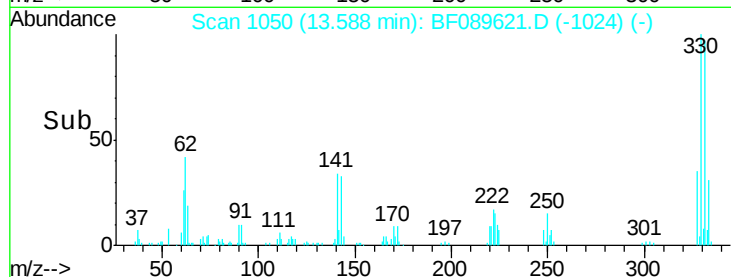
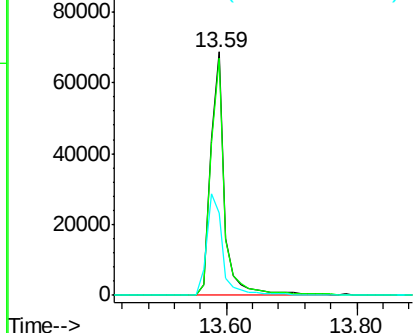
#41
 2,4,6-Tribromophenol
 Concen: 128.49 ng
 RT: 13.59 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: BF089621.D
 Acq: 5 Aug 2016 9:45

Instrument :
 BNA_F
 ClientSampleId :
 GW-59-9.6-19.0

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.0	115.6
141	47.5	38.6	57.8

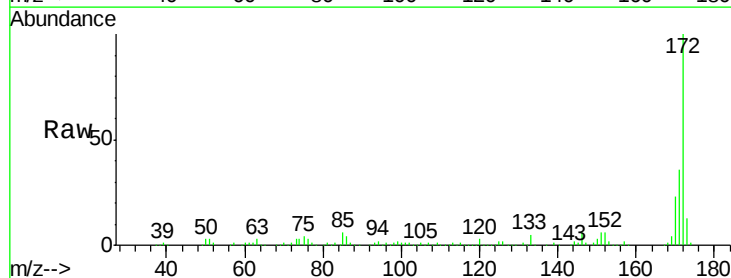


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

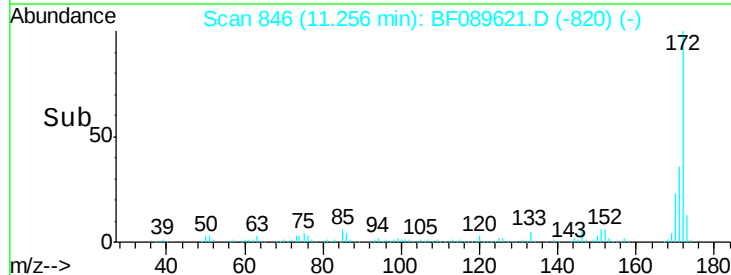
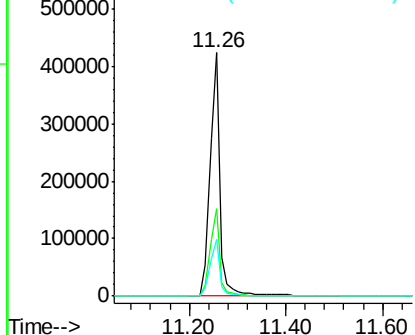


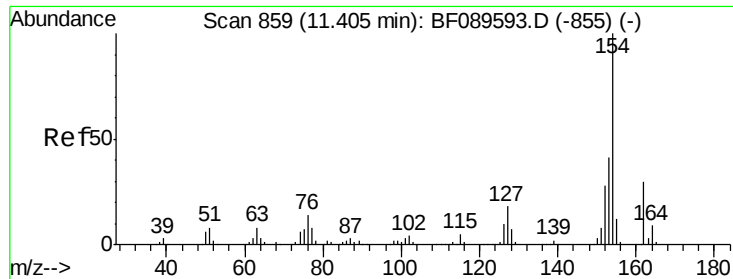
#44
 2-Fluorobiphenyl
 Concen: 82.67 ng
 RT: 11.26 min Scan# 846
 Delta R.T. 0.00 min
 Lab File: BF089621.D
 Acq: 5 Aug 2016 9:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.9	43.3
170	23.5	19.0	28.6



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





#45

1,1'-Biphenyl

Concen: 0.10 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.15 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

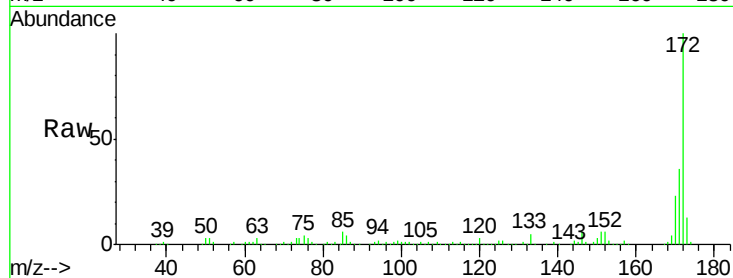
Tot Ion:154 Resp: 914

Ion Ratio Lower Upper

154 100

153 1123.8 20.6 60.6#

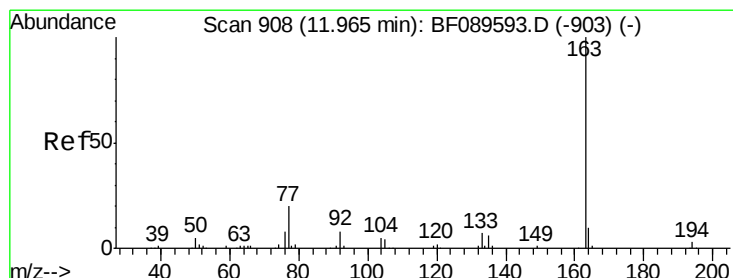
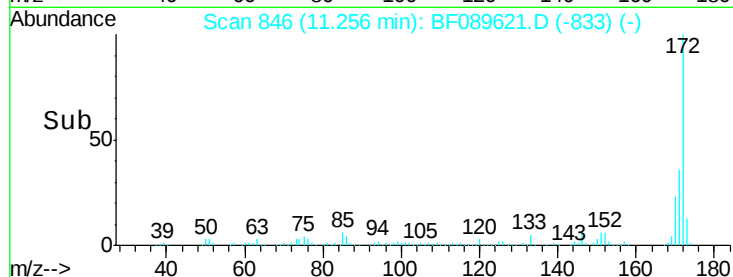
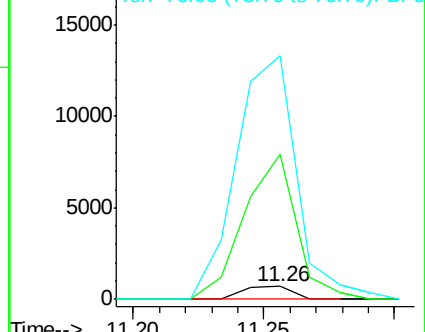
76 1886.1 0.0 33.7#



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: 4.31 ng

RT: 11.94 min Scan# 906

Delta R.T. -0.02 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

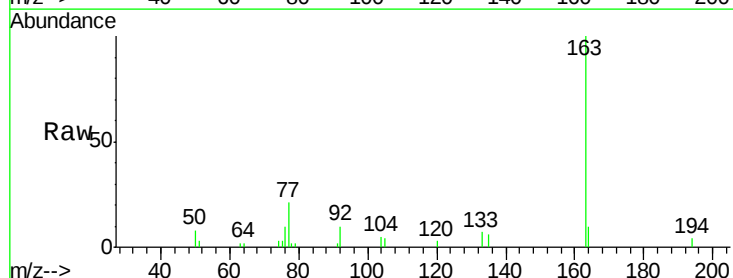
Tgt Ion:163 Resp: 32831

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

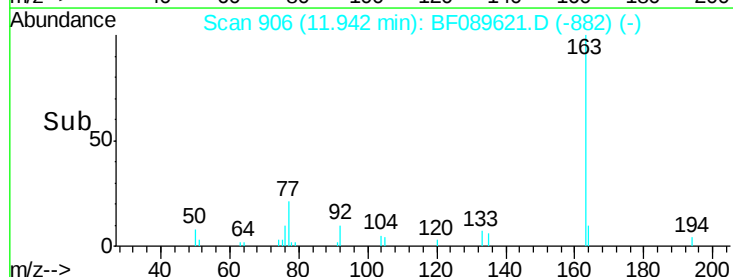
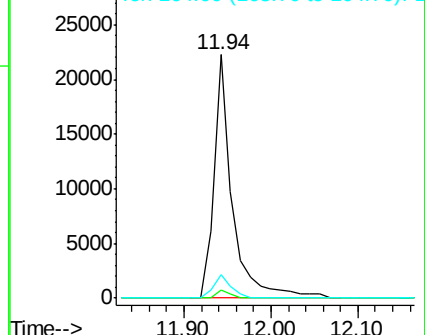
164 9.8 7.8 11.6

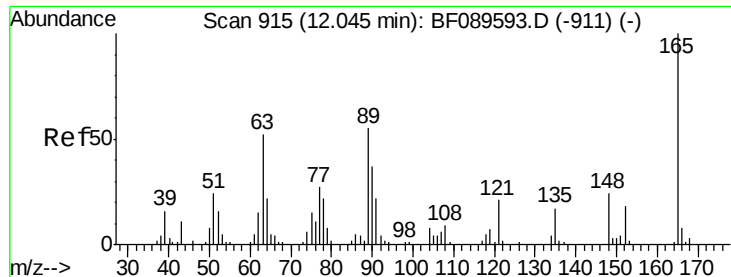


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

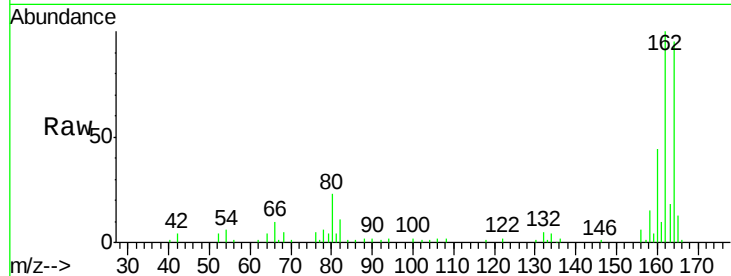




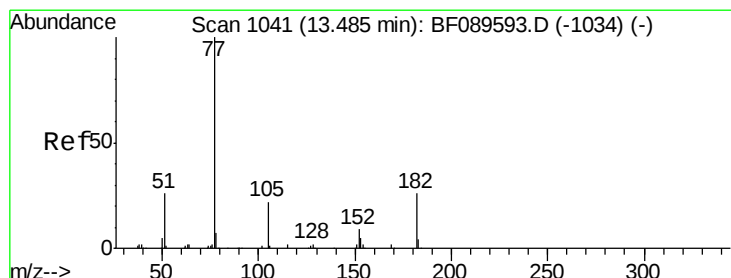
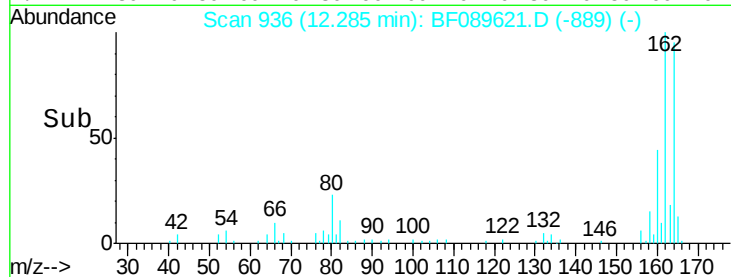
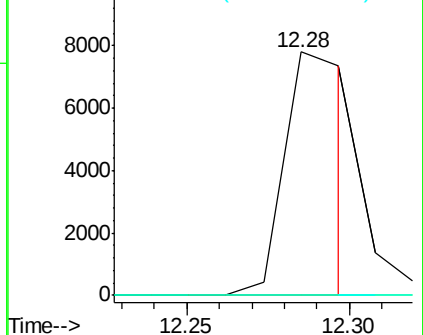
#50
 2,6-Dinitrotoluene
 Concen: 7.06 ng
 RT: 12.28 min Scan# 936
 Delta R.T. 0.24 min
 Lab File: BF089621.D
 Acq: 5 Aug 2016 9:45

Instrument :
 BNA_F
 ClientSampleId :
 GW-59-9.6-19.0

Tot Ion:165 Resp: 10700
 Ion Ratio Lower Upper
 165 100
 63 0.0 44.6 67.0#
 89 0.0 44.2 66.2#

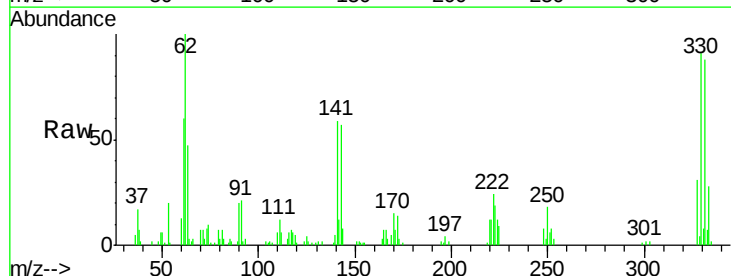


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

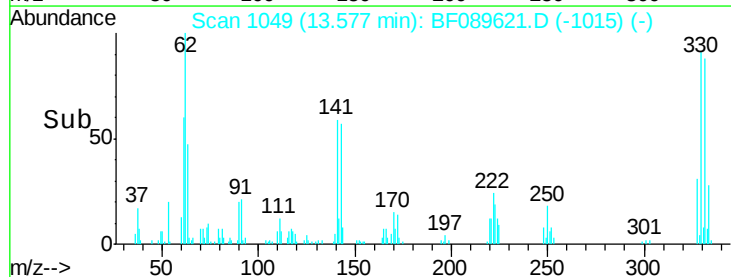
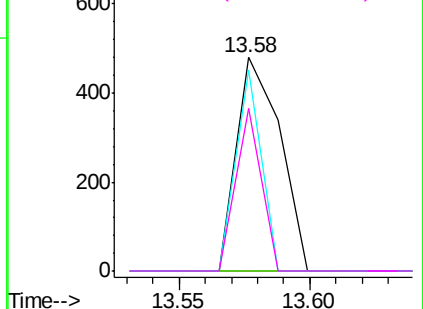


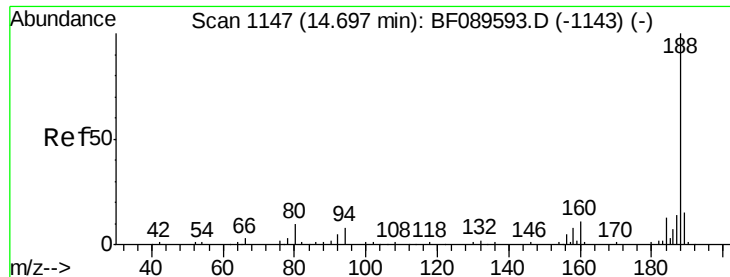
#62
 Azobenzene
 Concen: 0.07 ng
 RT: 13.58 min Scan# 1049
 Delta R.T. 0.09 min
 Lab File: BF089621.D
 Acq: 5 Aug 2016 9:45

Tgt Ion: 77 Resp: 563
 Ion Ratio Lower Upper
 77 100
 182 0.0 5.8 45.8#
 105 94.4 2.9 42.9#
 51 76.5 7.2 47.2#



Abundance Ion 77.00 (76.70 to 77.70): BF0
 Ion 182.00 (181.70 to 182.70): E
 Ion 105.00 (104.70 to 105.70): E
 Ion 51.00 (50.70 to 51.70): BF0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.69 min Scan# 1146

Delta R.T. -0.01 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

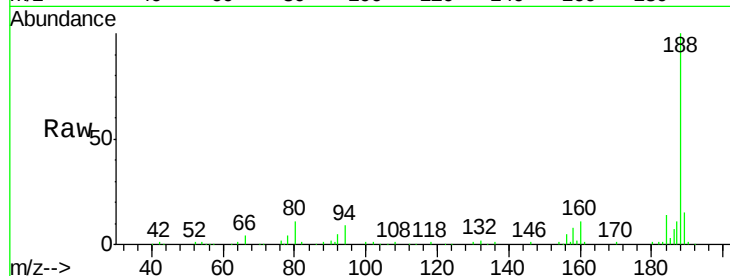
Tot Ion:188 Resp: 183280

Ion Ratio Lower Upper

188 100

94 9.3 6.5 9.7

80 10.5 8.0 12.0



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

150000

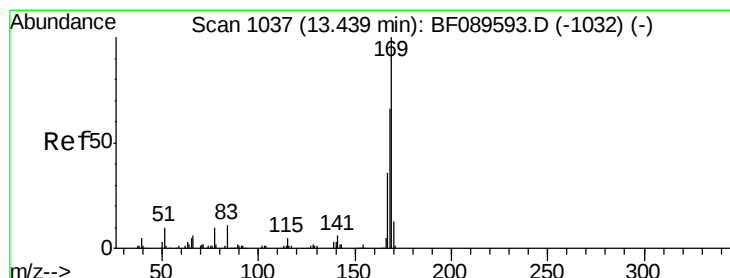
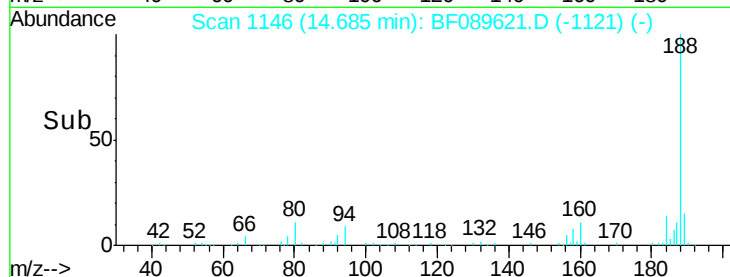
100000

50000

0

14.60 14.69 14.80 15.00

Time-->



#65

n-Nitrosodiphenylamine

Concen: 0.64 ng

RT: 13.58 min Scan# 1049

Delta R.T. 0.14 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

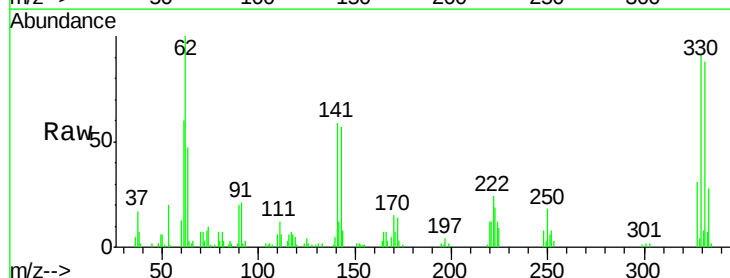
Tgt Ion:169 Resp: 3941

Ion Ratio Lower Upper

169 100

168 0.0 54.2 81.2#

167 49.8 28.9 43.3#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

3000

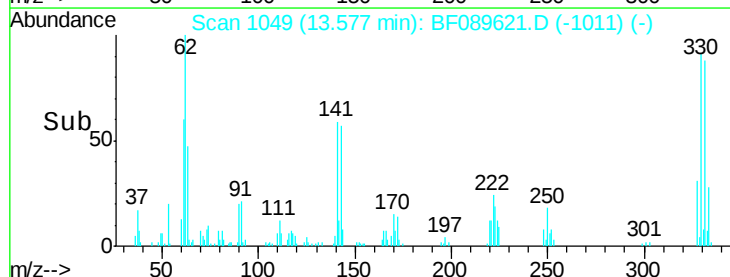
2000

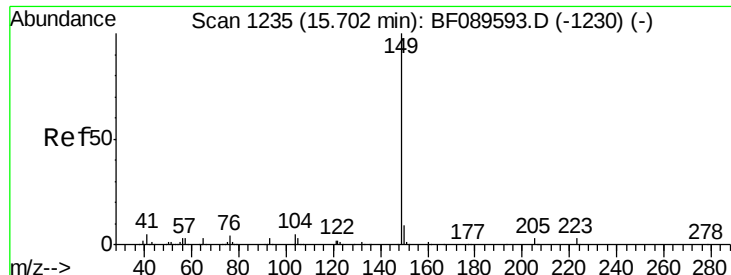
1000

0

13.55 13.58 13.60

Time-->





#73

Di-n-butylphthalate

Concen: 0.09 ng

RT: 15.69 min Scan# 1234

Delta R.T. -0.01 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

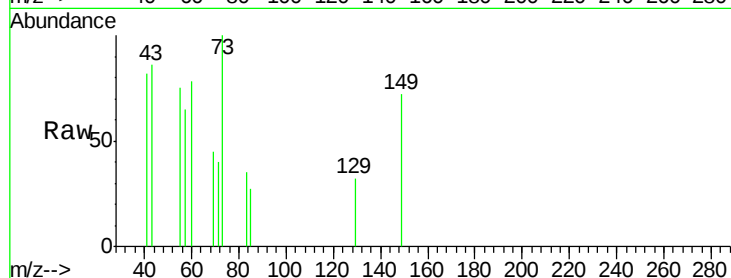
Tot Ion:149 Resp: 1116

Ion Ratio Lower Upper

149 100

150 0.0 7.2 10.8#

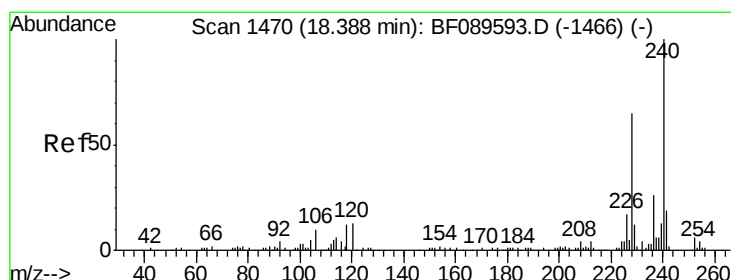
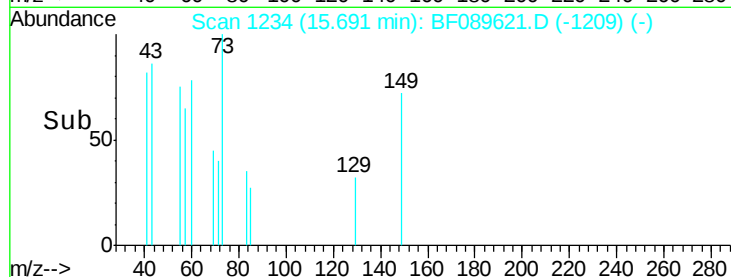
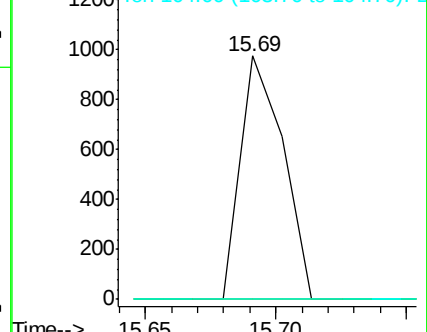
104 0.0 3.8 5.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.39 min Scan# 1470

Delta R.T. 0.00 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

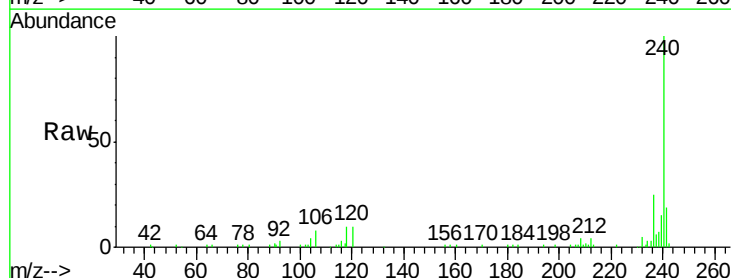
Tgt Ion:240 Resp: 119236

Ion Ratio Lower Upper

240 100

120 9.8 10.6 15.8#

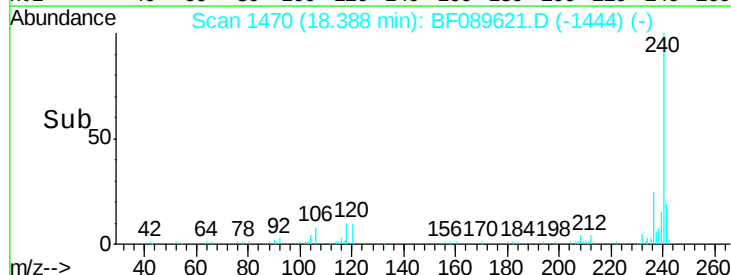
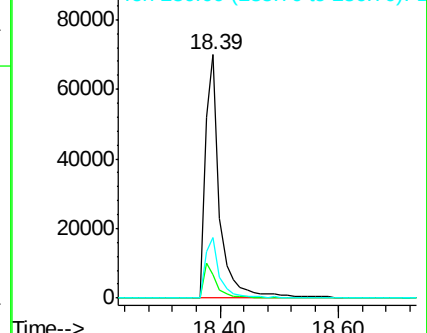
236 25.1 20.6 30.8

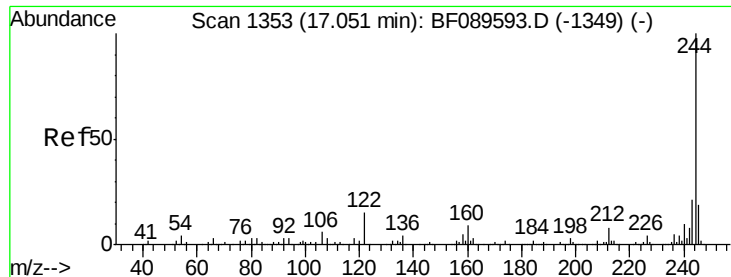


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 75.91 ng

RT: 17.05 min Scan# 1353

Delta R.T. 0.00 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

Instrument :

BNA_F

ClientSampleId :

GW-59-9.6-19.0

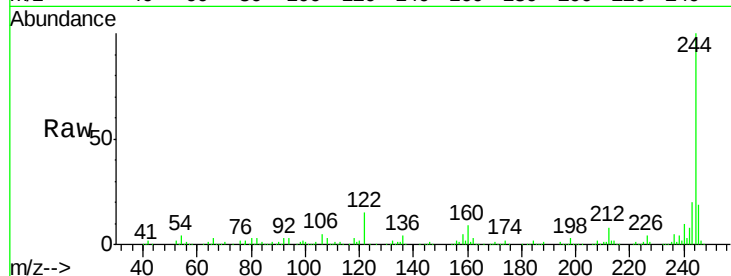
Tot Ion:244 Resp: 458519

Ion Ratio Lower Upper

244 100

212 7.9 6.4 9.6

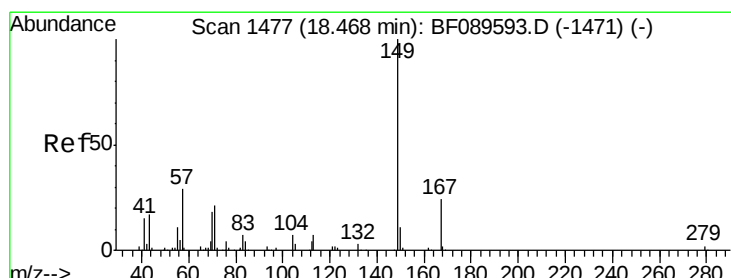
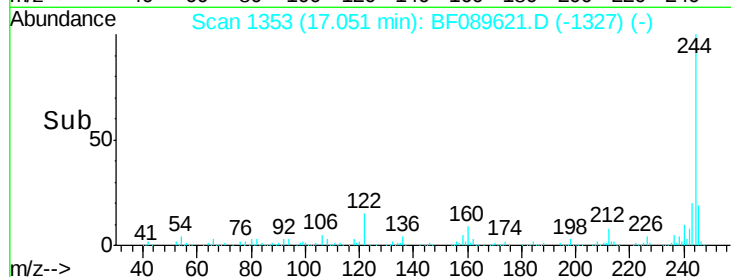
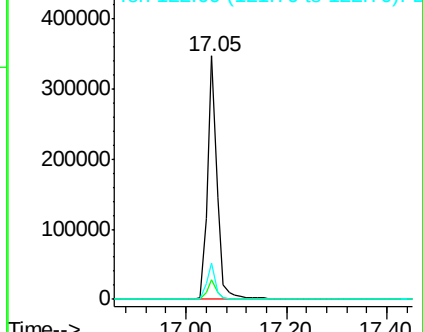
122 14.9 12.2 18.2



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.19 ng

RT: 18.47 min Scan# 1477

Delta R.T. 0.00 min

Lab File: BF089621.D

Acq: 5 Aug 2016 9:45

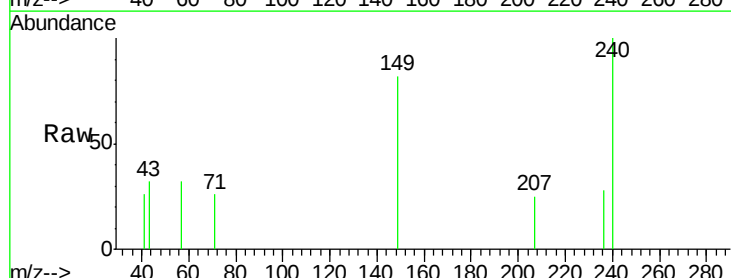
Tgt Ion:149 Resp: 1186

Ion Ratio Lower Upper

149 100

167 0.0 19.0 28.4#

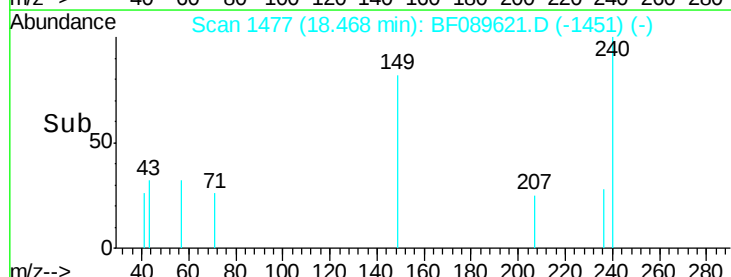
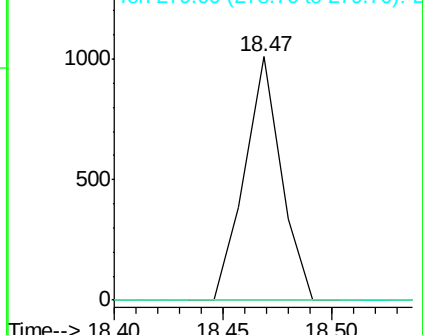
279 0.0 1.8 2.6#

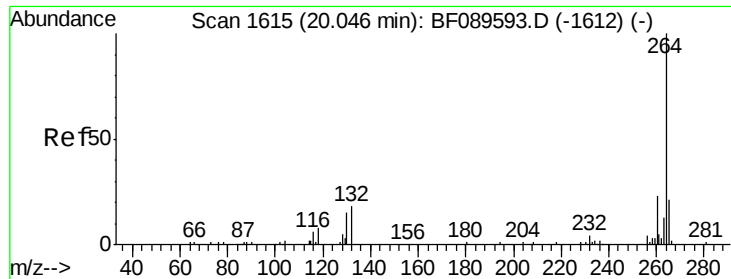


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

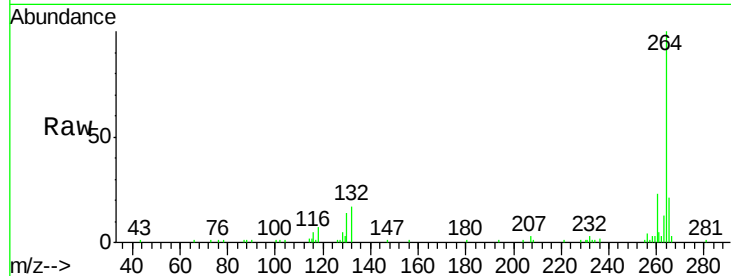




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.05 min Scan# 1615
Delta R.T. 0.00 min
Lab File: BF089621.D
Acq: 5 Aug 2016 9:45

Instrument :
BNA_F
ClientSampleId :
GW-59-9.6-19.0

Tot Ion: 264 Resp: 85410
Ion Ratio Lower Upper
264 100
260 23.5 18.7 28.1
265 21.4 16.5 24.7



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

