

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089061.D
 Acq On : 16 Jul 2016 18:12
 Operator : UM/SJ
 Sample : H3989-13
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 01:15:50 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	51356	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	222273	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	83719	20.00	ng	-0.05
63) Phenanthrene-d10	11.19	188	134402	20.00	ng	-0.03
75) Chrysene-d12	13.82	240	103079	20.00	ng	-0.03
86) Perylene-d12	15.19	264	79221	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.27	112	442638	129.17	ng	-0.02
7) Phenol-d6	6.33	99	643304	145.29	ng	-0.02
23) Nitrobenzene-d5	7.23	82	308696	72.78	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	78781	101.34	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	569762	107.50	ng	-0.03
78) Terphenyl-d14	12.78	244	360352	77.86	ng	-0.02

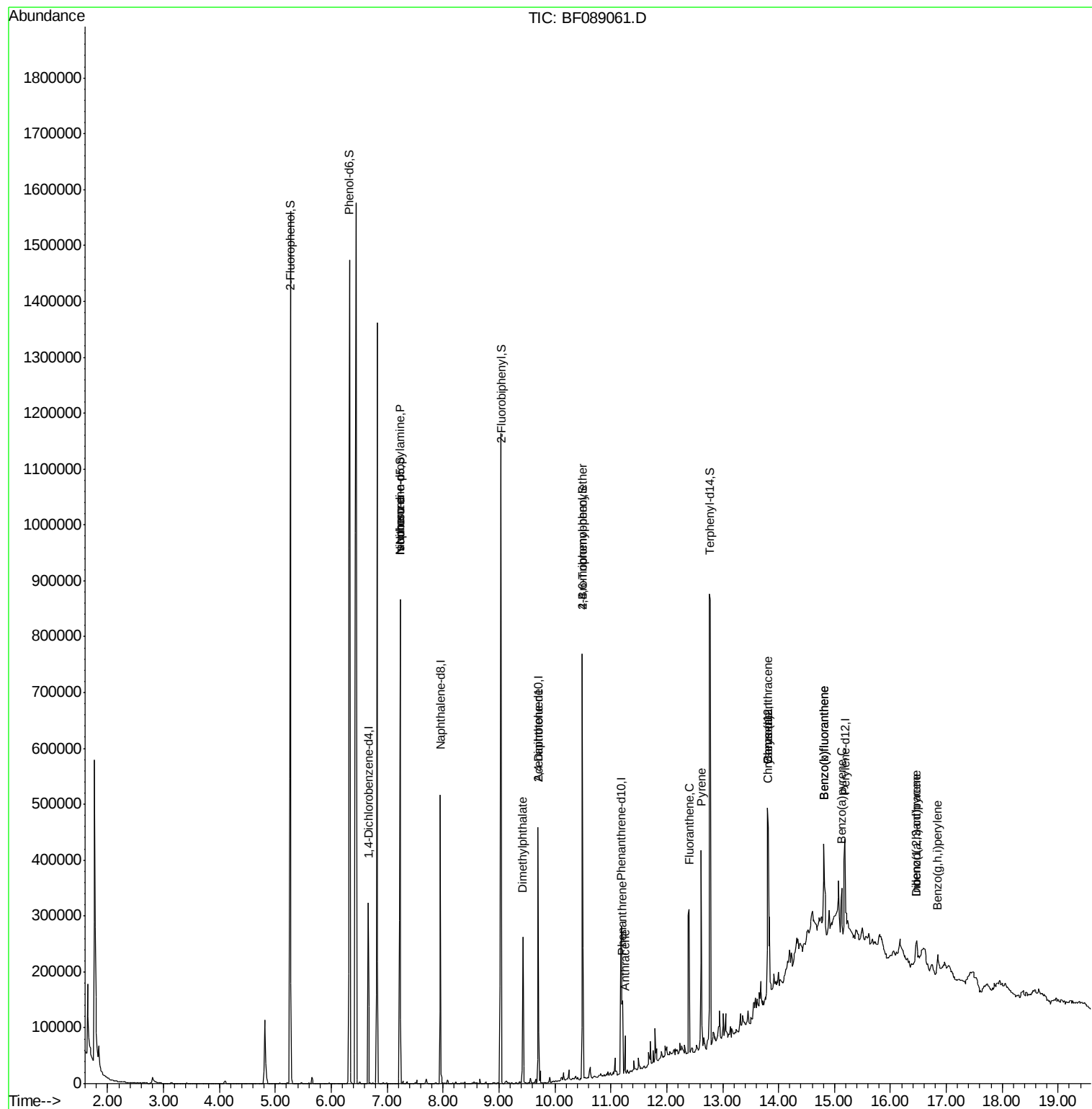
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.23	70	42341	14.24	ng	# 74
25) Isophorone	7.23	82	235643	29.99	ng	# 65
49) Dimethylphthalate	9.43	163	93489	15.67	ng	99
56) 2,4-Dinitrotoluene	9.70	165	11058	6.40	ng	# 36
66) 4-Bromophenyl-phenylether	10.49	248	6034	4.46	ng	# 1
70) Phenanthrene	11.21	178	72714	9.90	ng	97
71) Anthracene	11.26	178	23222	3.18	ng	99
74) Fluoranthene	12.40	202	151049	20.28	ng	91
77) Pyrene	12.62	202	131522	15.05	ng	99
80) Benzo(a)anthracene	13.81	228	84338	12.71	ng	99
82) Chrysene	13.81	228	84610	12.88	ng	95
85) Indeno(1,2,3-cd)pyrene	16.47	276	24031	4.76	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	89670	18.04	ng	# 92
88) Benzo(k)fluoranthene	14.81	252	89670	20.73	ng	# 96
89) Benzo(a)pyrene	15.13	252	44517	10.58	ng	98
90) Dibenzo(a,h)anthracene	16.47	278	8659	2.46	ng	# 54
91) Benzo(g,h,i)perylene	16.85	276	22564	6.21	ng	96

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089061.D
Acq On : 16 Jul 2016 18:12
Operator : UM/SJ
Sample : H3989-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Jul 18 01:15:50 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.05 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampled :

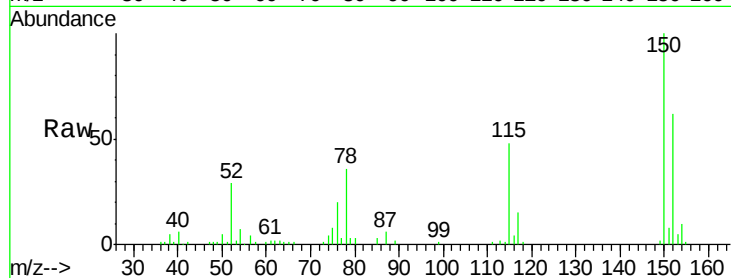
Tot Ion:152 Resp: 51356

Ion Ratio Lower Upper

152 100

150 160.5 123.8 185.6

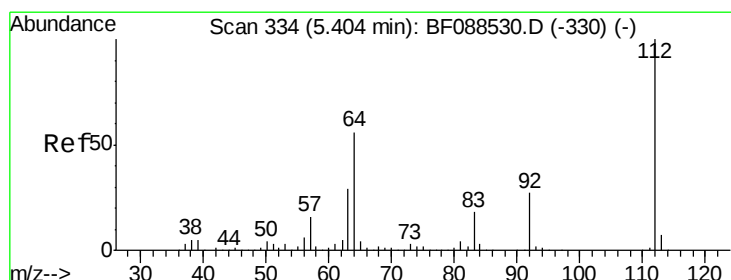
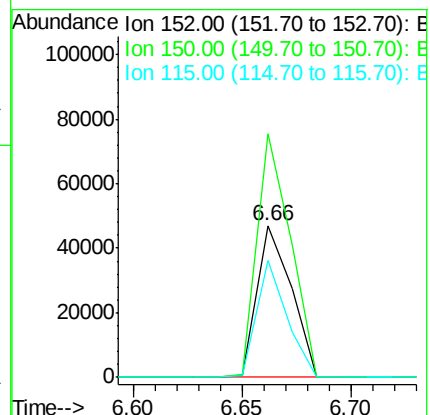
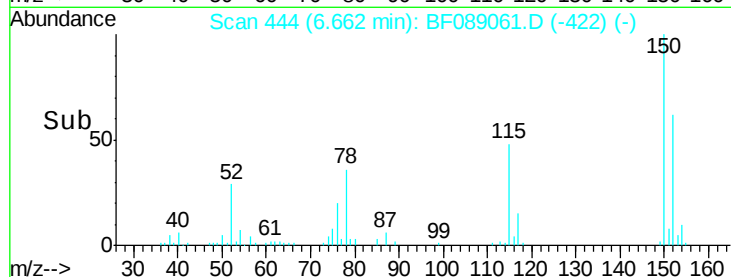
115 77.2 39.6 59.4#



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: 129.17 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

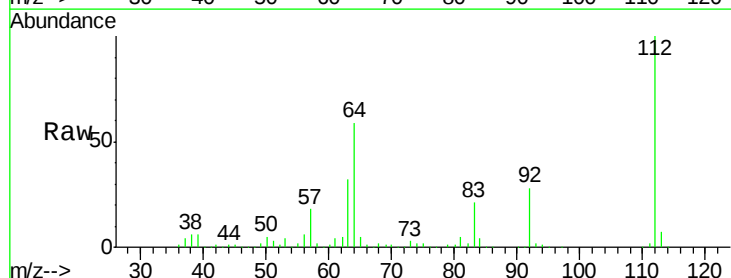
Tgt Ion:112 Resp: 442638

Ion Ratio Lower Upper

112 100

64 59.4 42.2 63.2

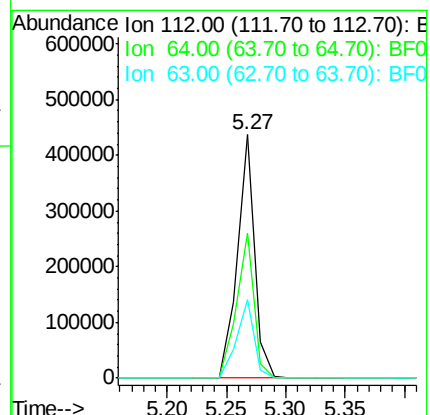
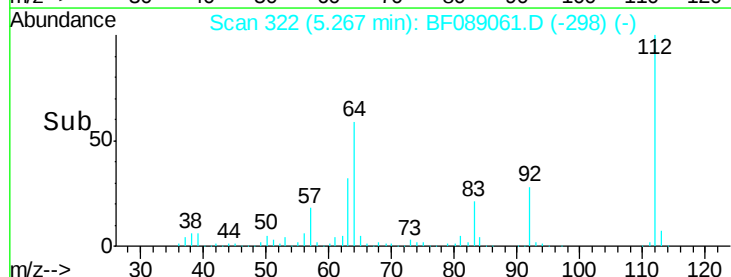
63 32.1 21.8 32.8



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: 145.29 ng

RT: 6.33 min Scan# 415

Delta R.T. -0.02 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

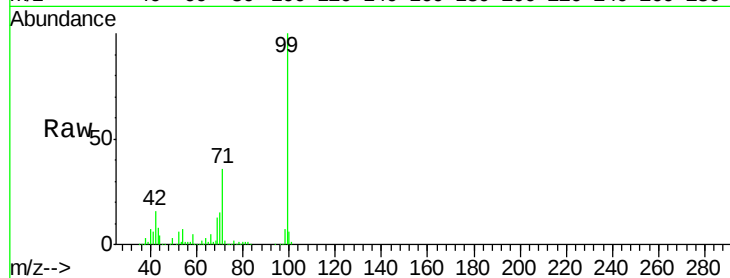
Tot Ion: 99 Resp: 643304

Ion Ratio Lower Upper

99 100

42 16.4 12.2 18.2

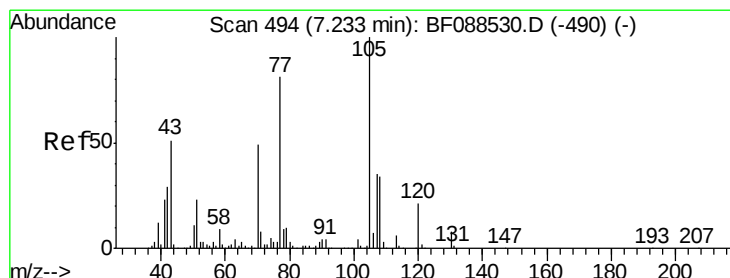
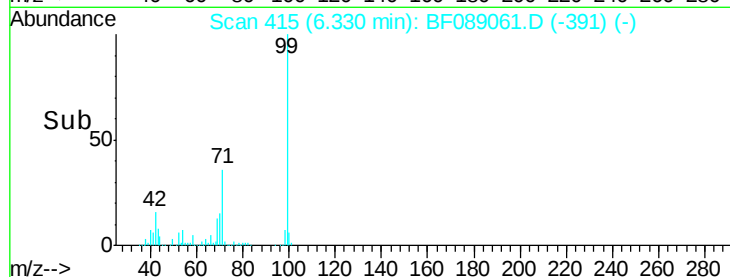
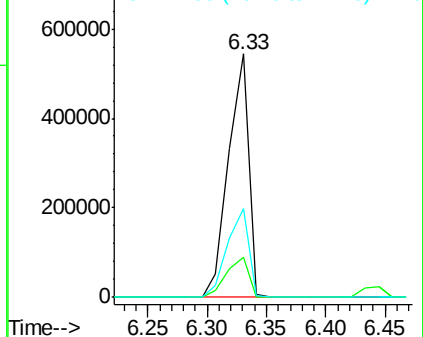
71 36.4 23.4 35.0#



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: 14.24 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Tgt Ion: 70 Resp: 42341

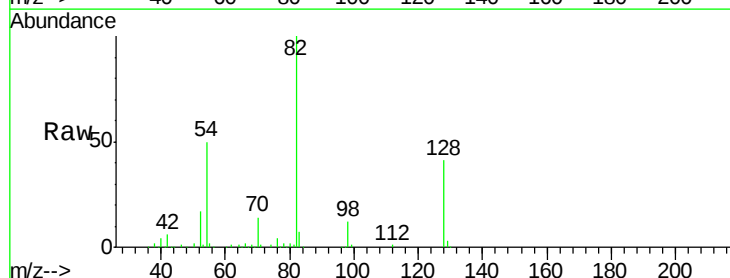
Ion Ratio Lower Upper

70 100

42 45.1 49.6 74.4#

101 0.0 7.1 10.7#

130 1.8 15.4 23.2#

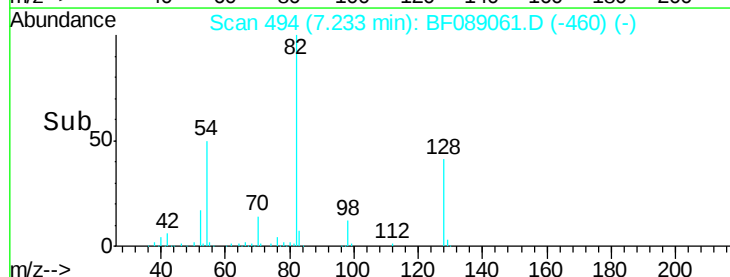
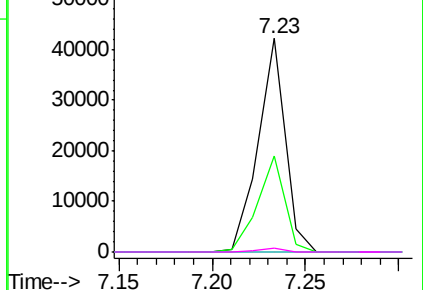


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.95 min Scan# 557

Delta R.T. -0.05 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 222273

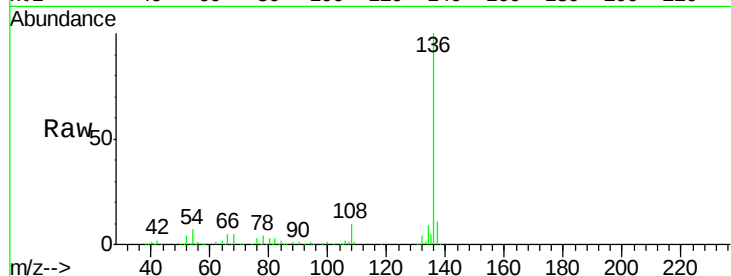
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 6.5 6.6 10.0#

68 5.1 5.1 7.7#

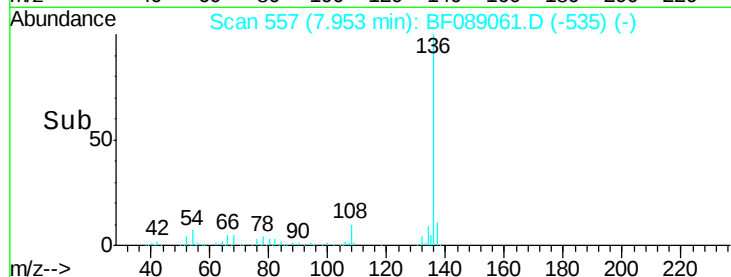


Abundance Ion 136.00 (135.70 to 136.70): E

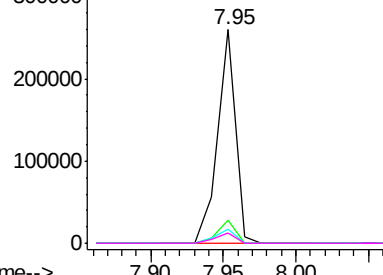
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 72.78 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

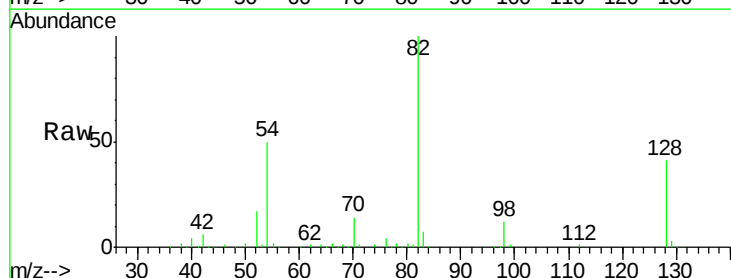
Tgt Ion: 82 Resp: 308696

Ion Ratio Lower Upper

82 100

128 40.7 35.9 53.9

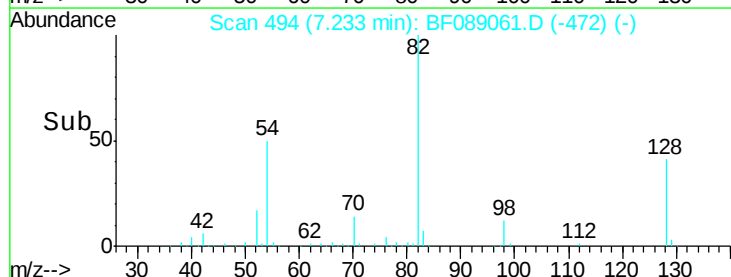
54 49.6 40.9 61.3



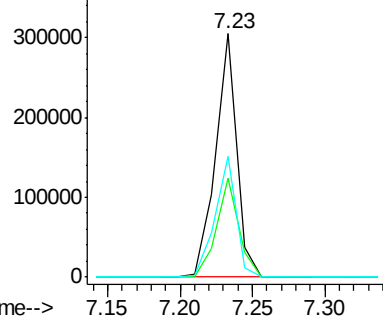
Abundance Ion 82.00 (81.70 to 82.70): BF0

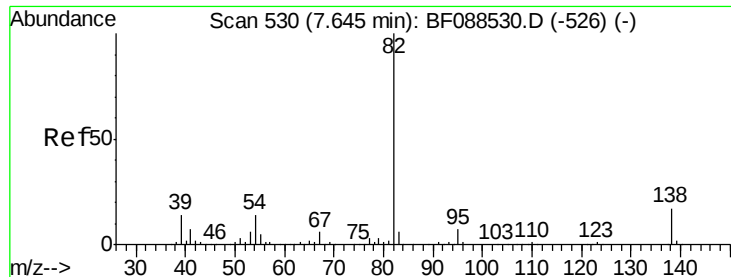
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#25

Isophorone

Concen: 29.99 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.31 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

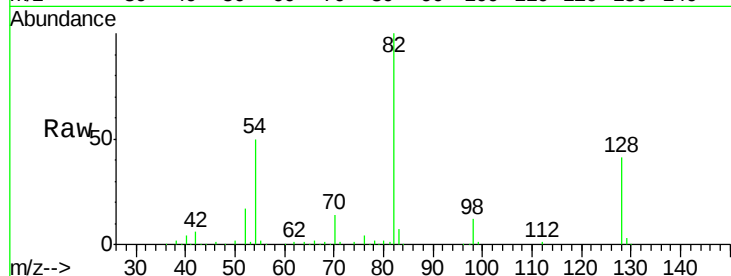
Tot Ion: 82 Resp: 235643

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

138 0.0 14.6 21.8#

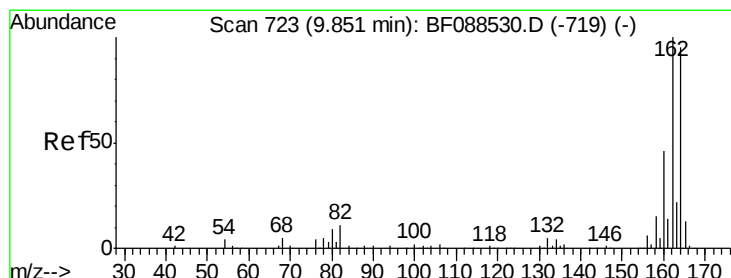
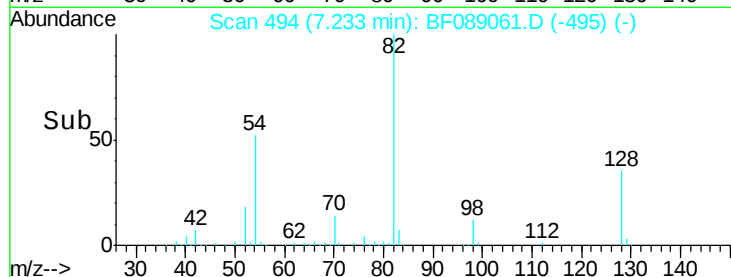


Abundance Ion 82.00 (81.70 to 82.70): BF088530.D (-526) (-)

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

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

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.05 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

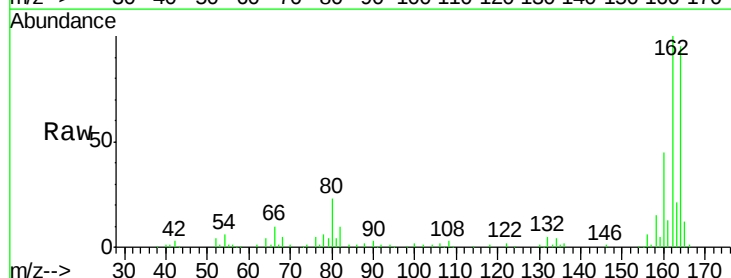
Tgt Ion: 164 Resp: 83719

Ion Ratio Lower Upper

164 100

162 104.8 85.4 128.2

160 47.0 39.5 59.3

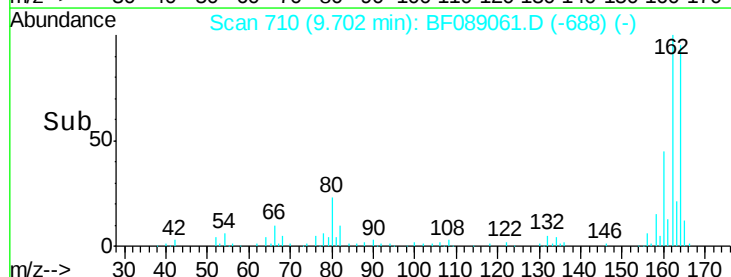


Abundance Ion 164.00 (163.70 to 164.70): BF088530.D (-719) (-)

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

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

Time-->

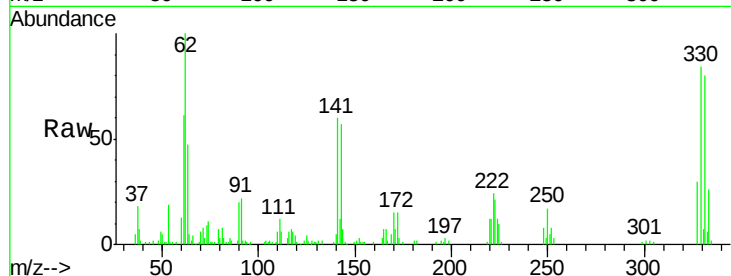




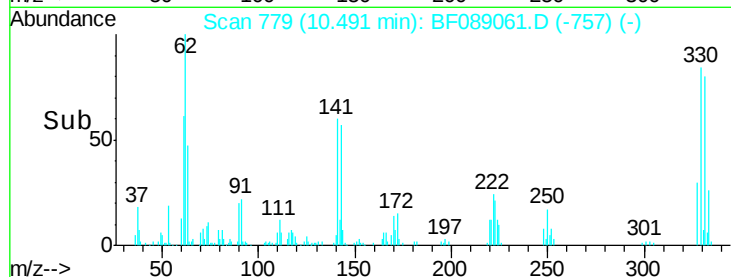
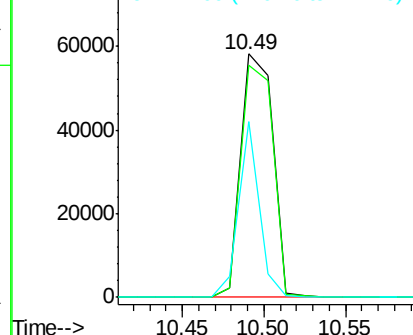
#41
 2,4,6-Tribromophenol
 Concen: 101.34 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089061.D
 Acq: 16 Jul 2016 18:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	0.0	0.0#
141	46.2	0.0	0.0#

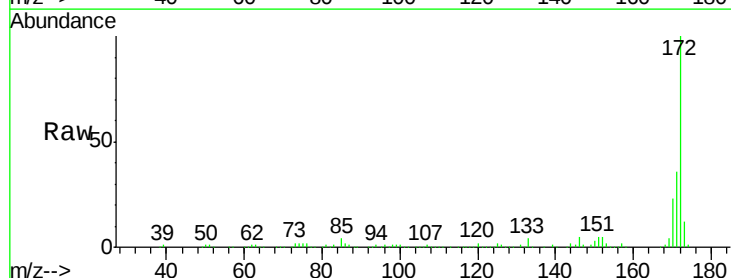


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

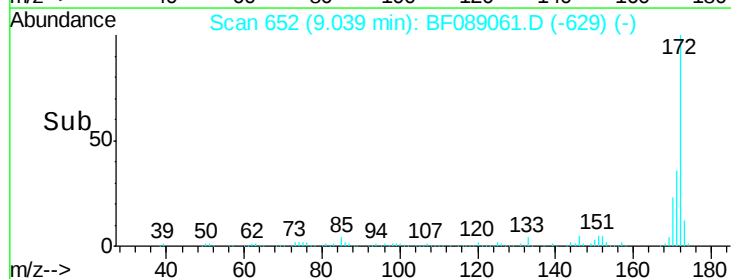
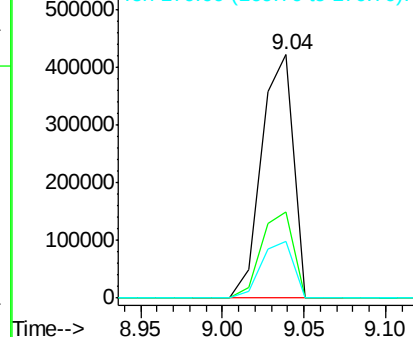


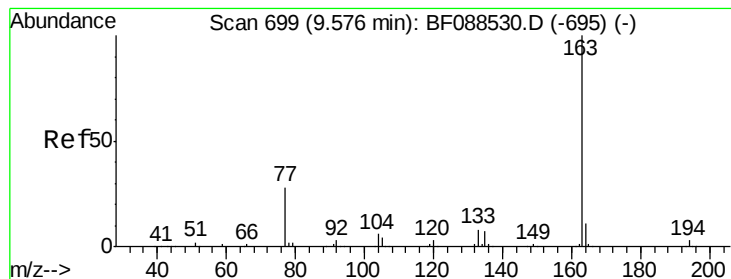
#44
 2-Fluorobiphenyl
 Concen: 107.50 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089061.D
 Acq: 16 Jul 2016 18:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	23.1	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: 15.67 ng

RT: 9.43 min Scan# 686

Delta R.T. -0.06 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

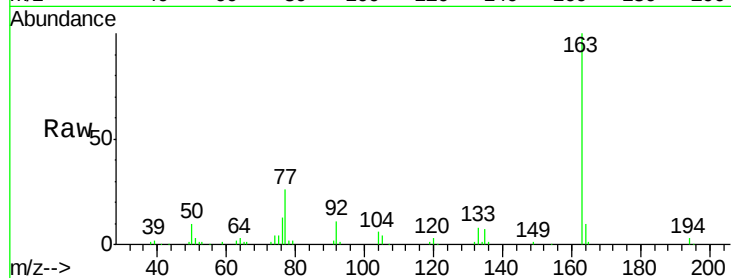
Tot Ion:163 Resp: 93489

Ion Ratio Lower Upper

163 100

194 3.0 2.8 4.2

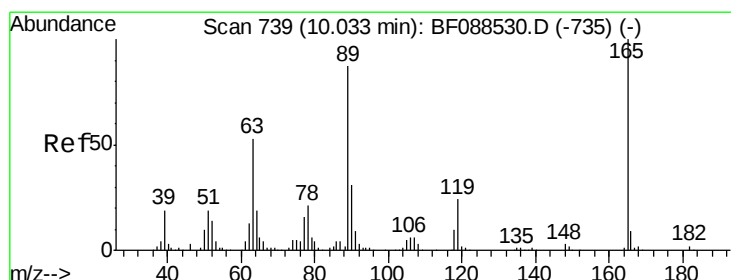
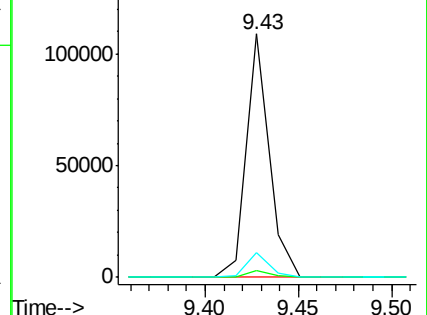
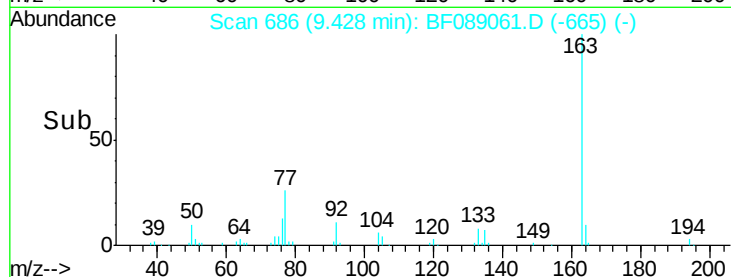
164 10.2 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.40 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.24 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Tgt Ion:165 Resp: 11058

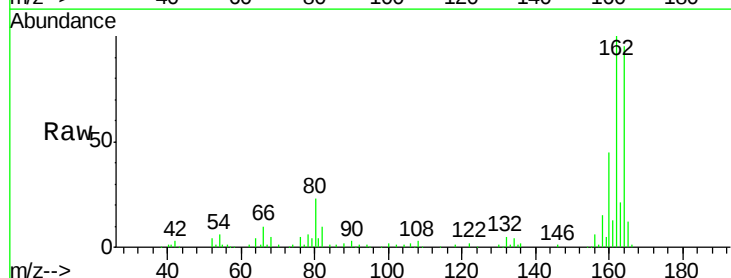
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

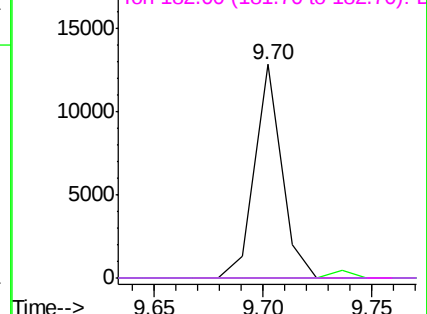
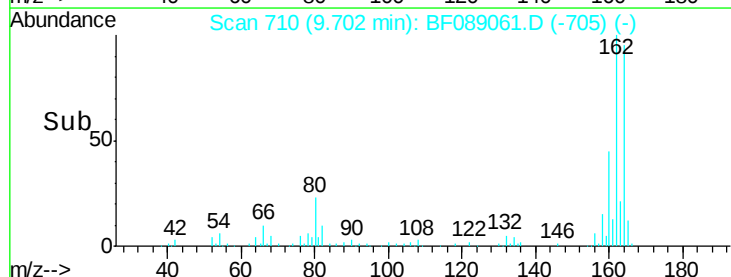


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

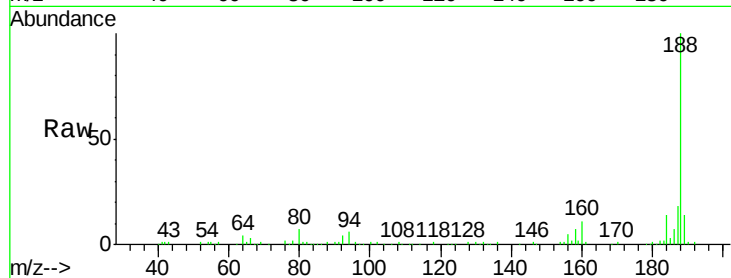




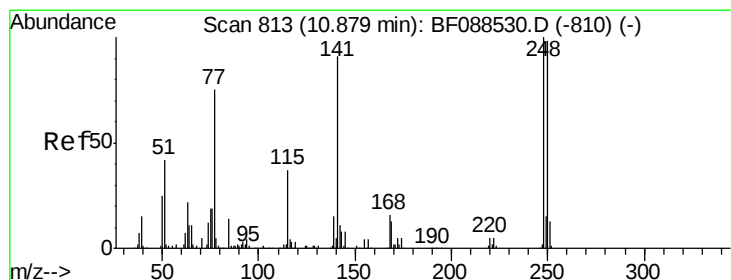
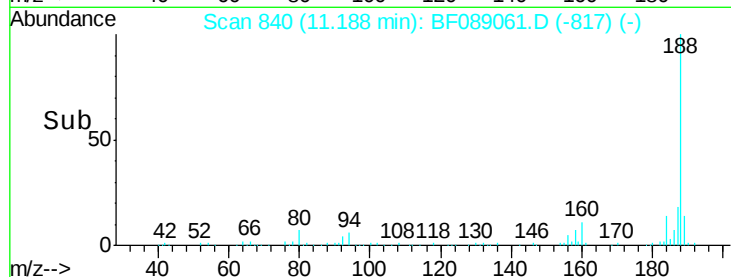
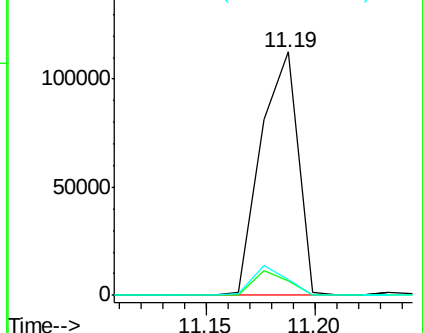
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.19 min Scan# 840
 Delta R.T. -0.03 min
 Lab File: BF089061.D
 Acq: 16 Jul 2016 18:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 134402
 Ion Ratio Lower Upper
 188 100
 94 6.2 9.0 13.6#
 80 6.6 10.0 15.0#

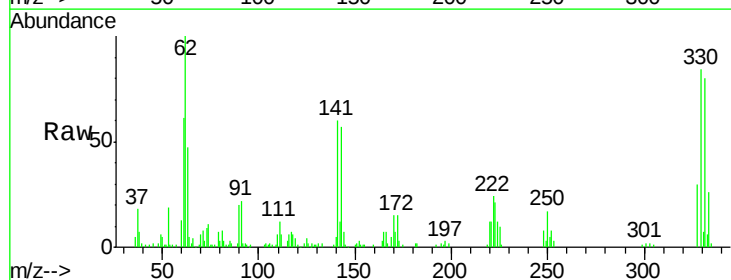


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

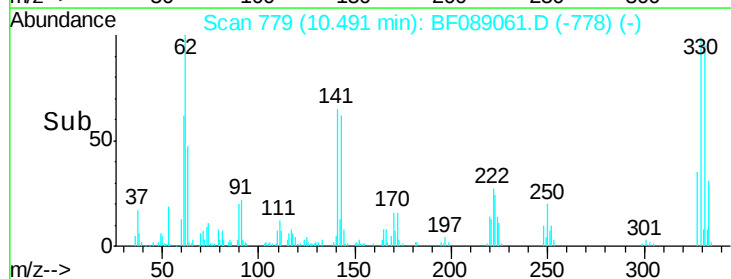
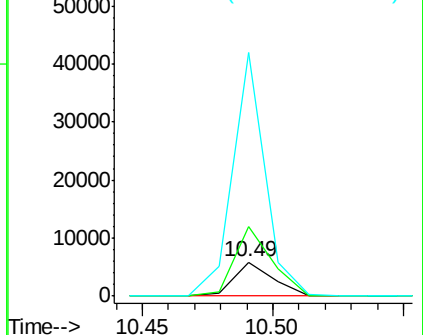


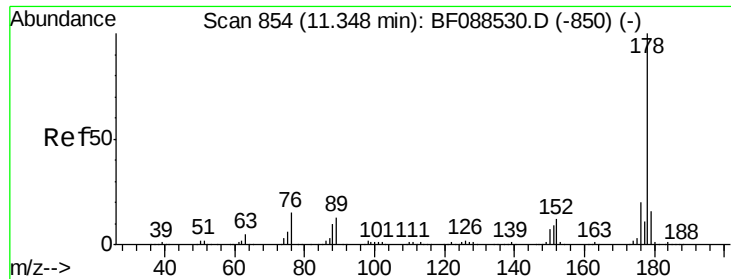
#66
 4-Bromophenyl-phenylether
 Concen: 4.46 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.29 min
 Lab File: BF089061.D
 Acq: 16 Jul 2016 18:12

Tgt Ion:248 Resp: 6034
 Ion Ratio Lower Upper
 248 100
 250 204.8 77.1 115.7#
 141 713.4 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

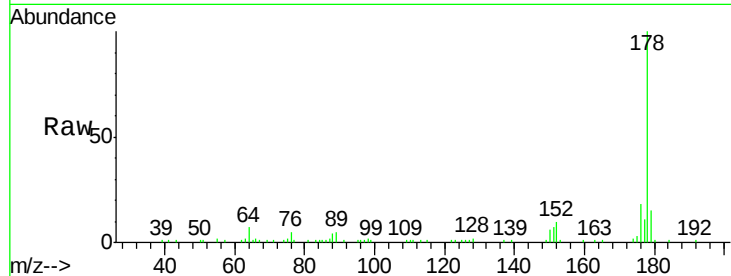




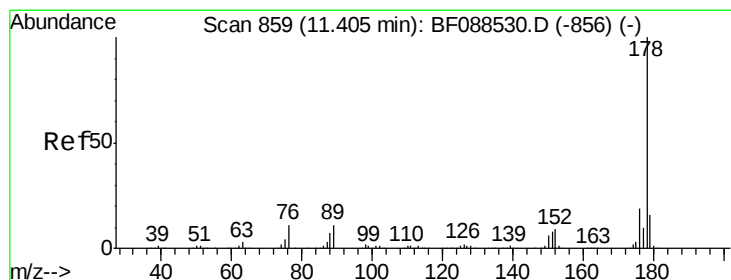
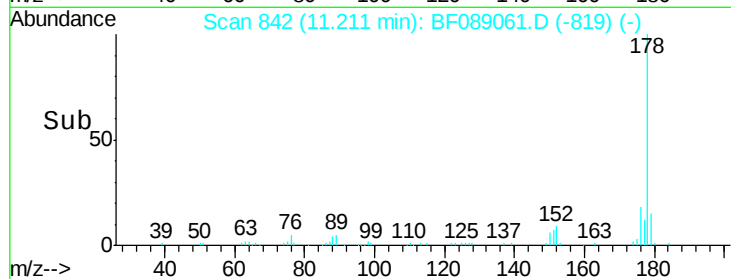
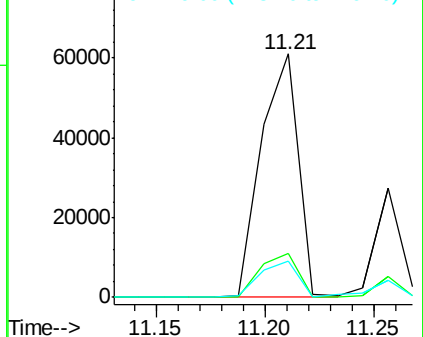
#70
Phenanthrene
Concen: 9.90 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089061.D
Acq: 16 Jul 2016 18:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 72714
Ion Ratio Lower Upper
178 100
176 18.1 15.8 23.6
179 14.9 13.0 19.4

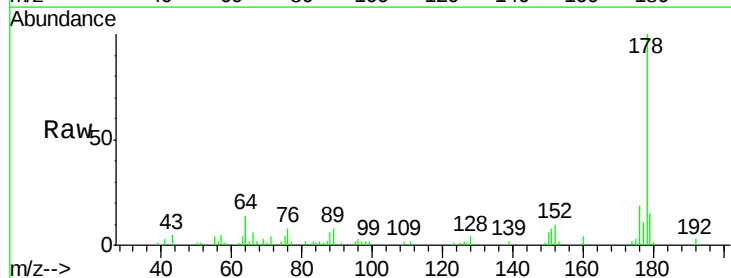


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

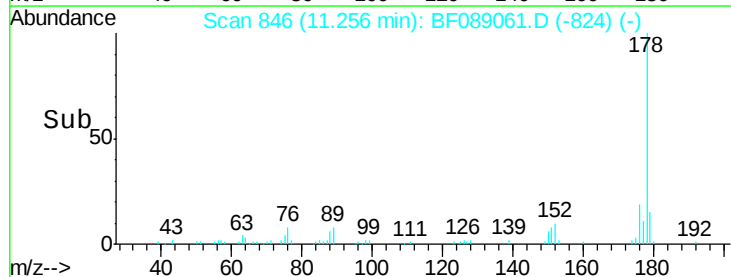
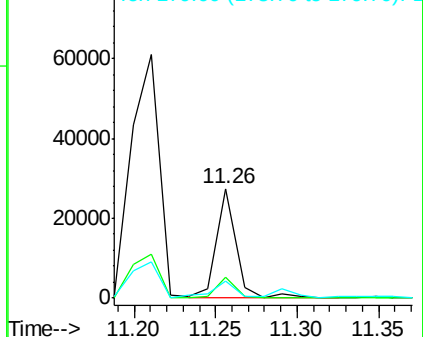


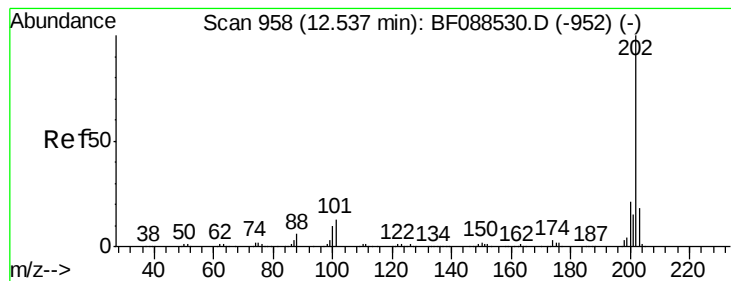
#71
Anthracene
Concen: 3.18 ng
RT: 11.26 min Scan# 846
Delta R.T. -0.05 min
Lab File: BF089061.D
Acq: 16 Jul 2016 18:12

Tgt Ion:178 Resp: 23222
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 15.4 12.8 19.2



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: 20.28 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

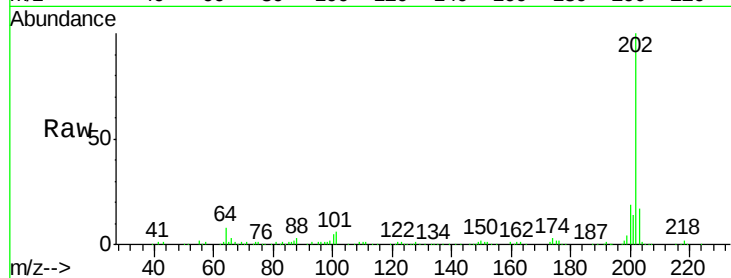
Tot Ion:202 Resp: 151049

Ion Ratio Lower Upper

202 100

101 6.5 0.0 33.1

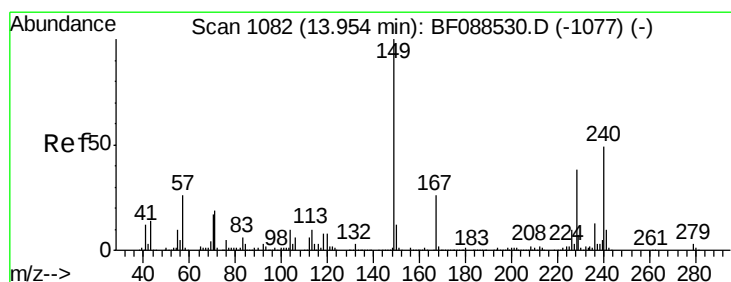
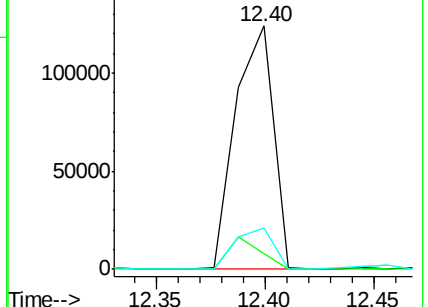
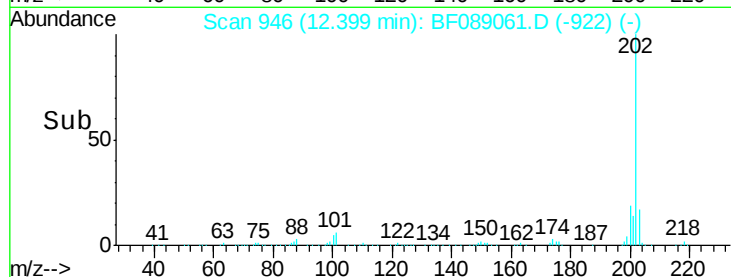
203 16.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

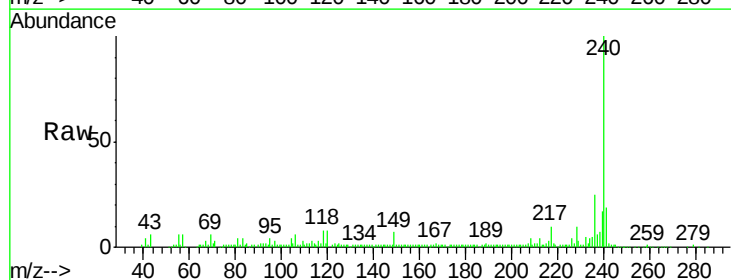
Tgt Ion:240 Resp: 103079

Ion Ratio Lower Upper

240 100

120 8.0 6.8 10.2

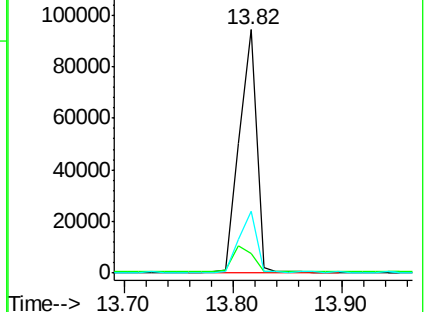
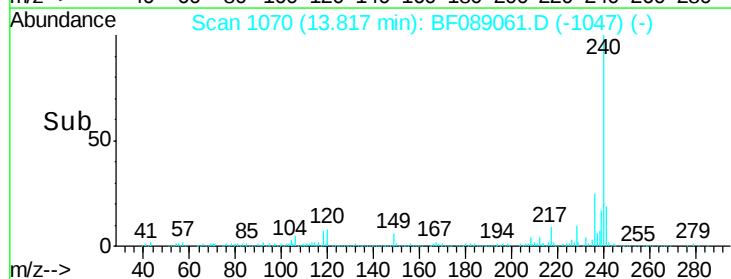
236 25.5 20.2 30.2

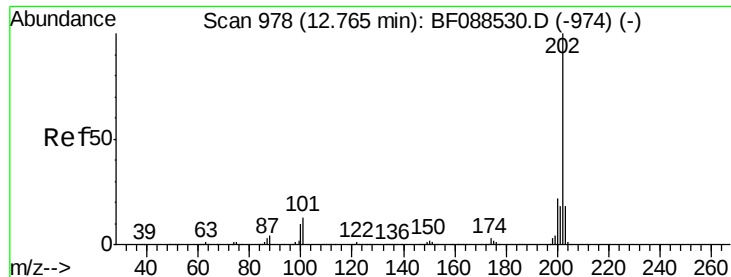


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 15.05 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

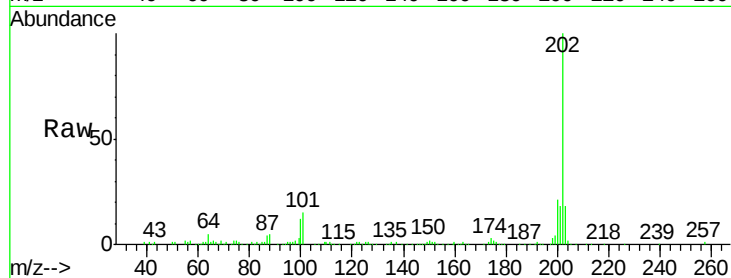
Tot Ion:202 Resp: 131522

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

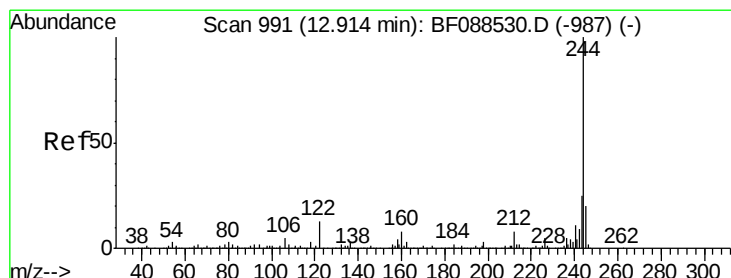
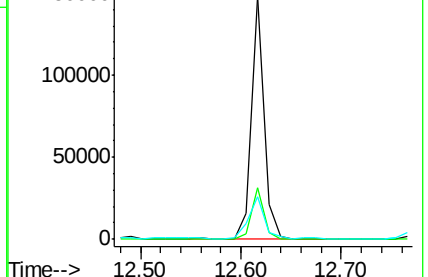
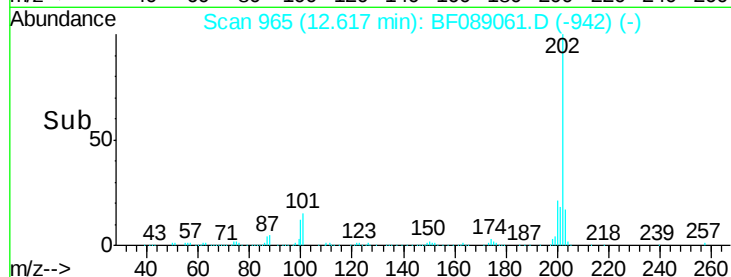
203 17.7 14.5 21.7



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: 77.86 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.02 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

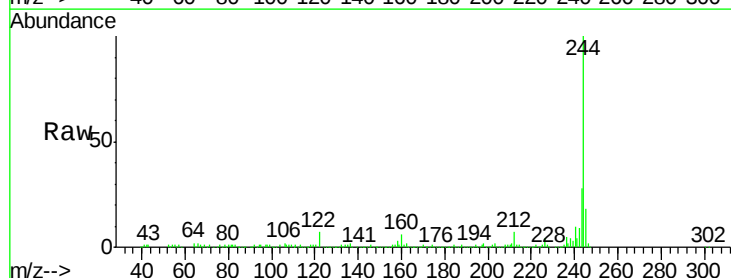
Tgt Ion:244 Resp: 360352

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

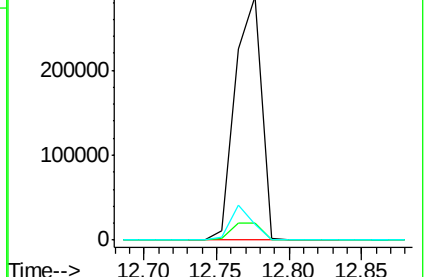
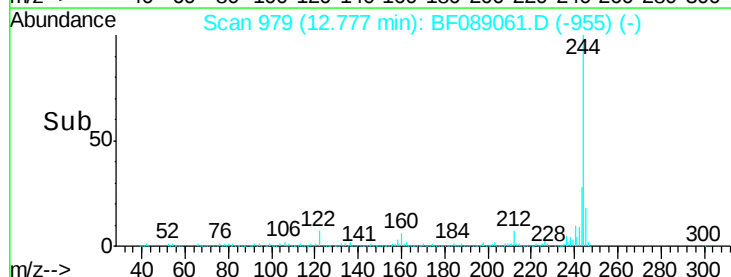
122 6.5 11.2 16.8#

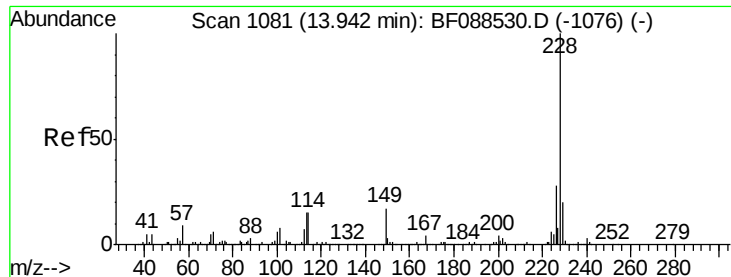


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.71 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

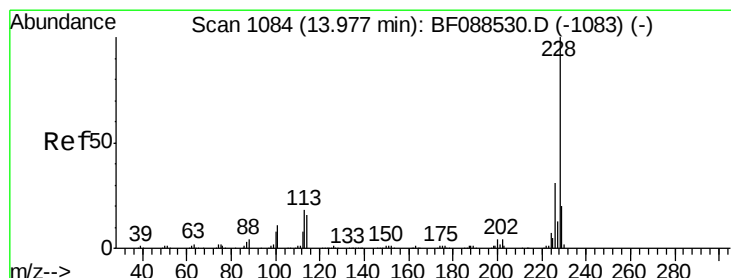
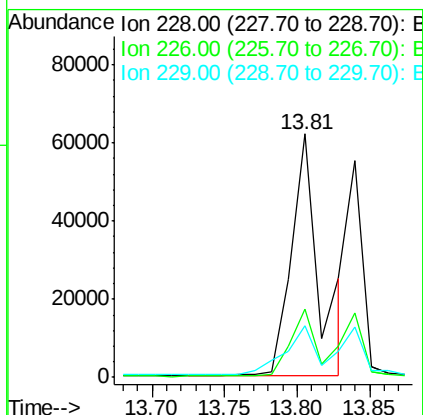
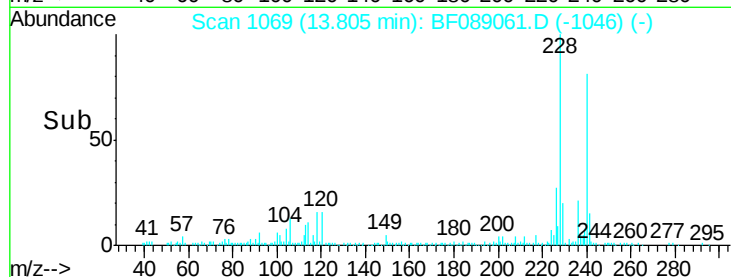
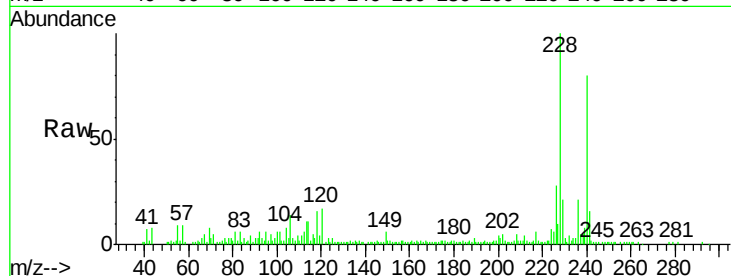
Tot Ion:228 Resp: 84338

Ion Ratio Lower Upper

228 100

226 28.1 22.3 33.5

229 21.0 16.0 24.0



#82

Chrysene

Concen: 12.88 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.07 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

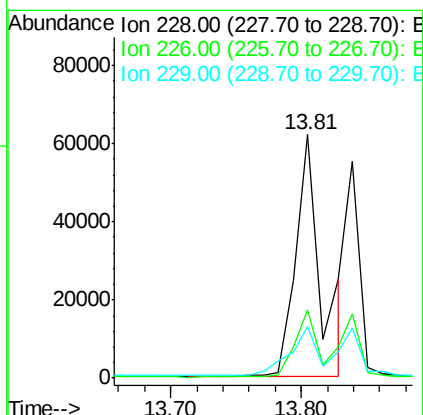
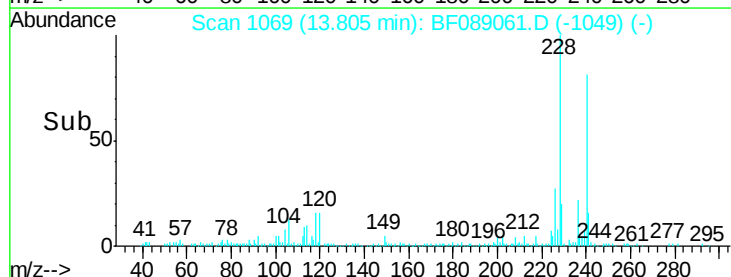
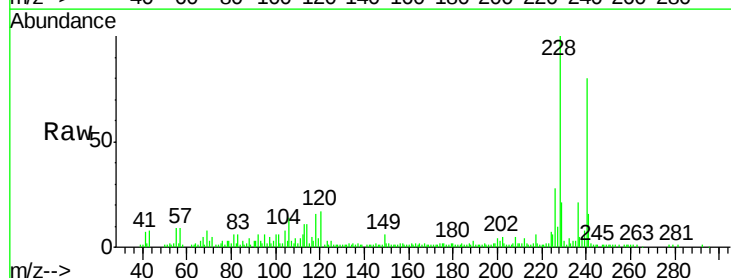
Tgt Ion:228 Resp: 84610

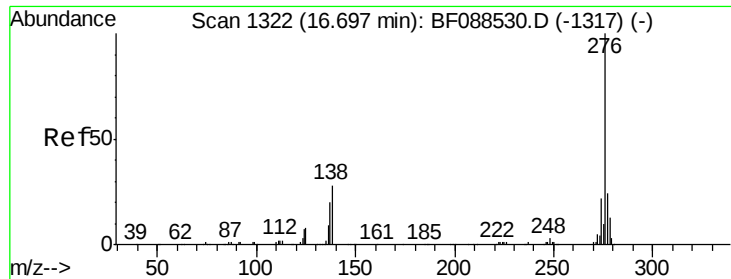
Ion Ratio Lower Upper

228 100

226 28.1 25.4 38.2

229 21.0 16.3 24.5

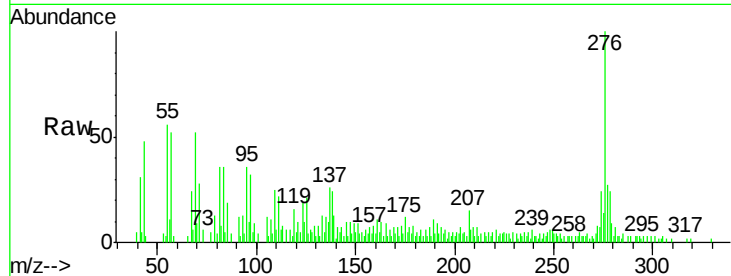




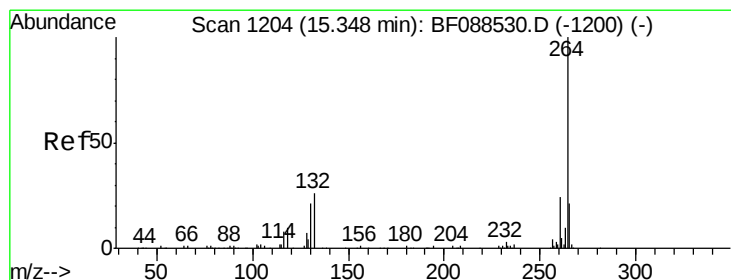
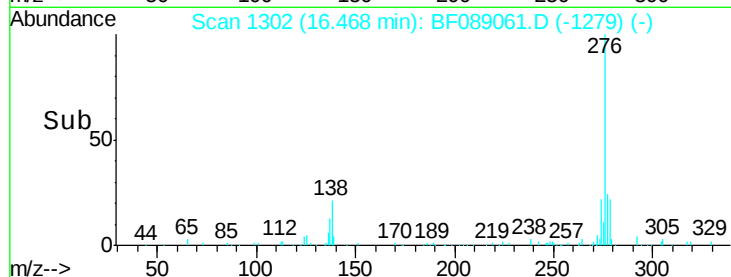
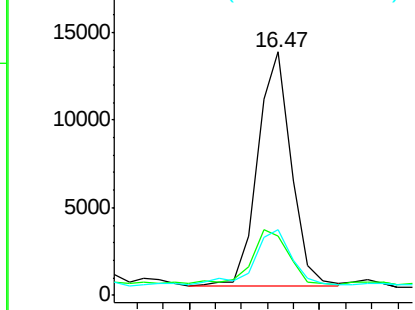
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.76 ng
RT: 16.47 min Scan# 1302
Delta R.T. -0.03 min
Lab File: BF089061.D
Acq: 16 Jul 2016 18:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 24031
Ion Ratio Lower Upper
276 100
138 27.0 0.0 0.0#
277 26.8 0.0 0.0#

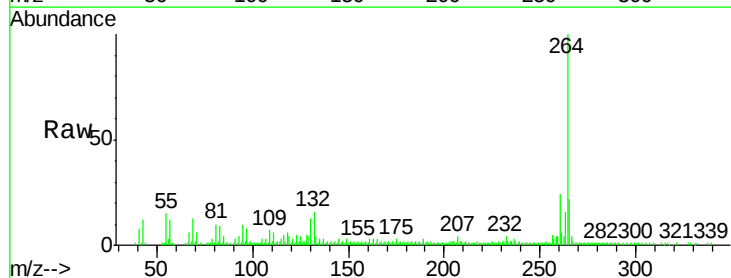


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

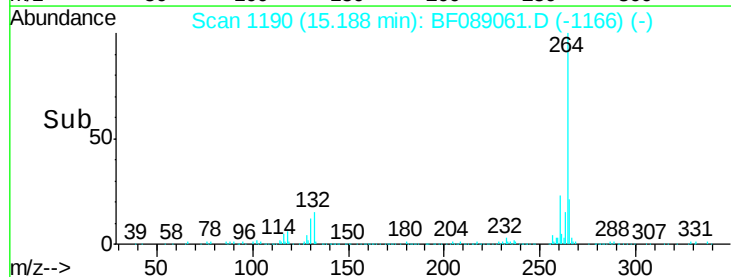
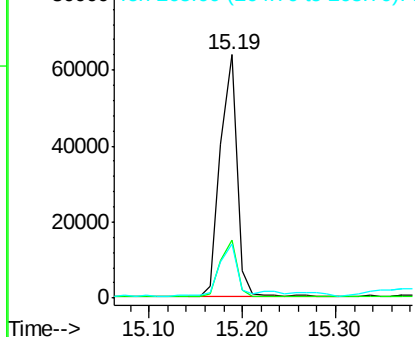


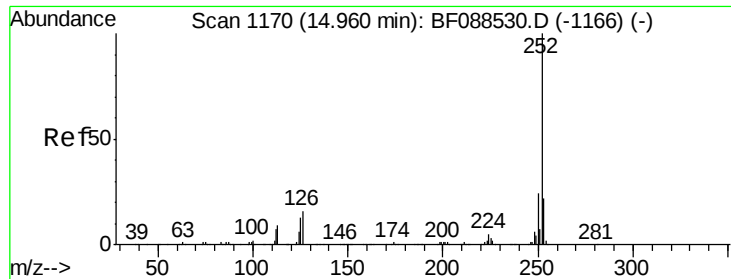
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.19 min Scan# 1190
Delta R.T. -0.02 min
Lab File: BF089061.D
Acq: 16 Jul 2016 18:12

Tgt Ion:264 Resp: 79221
Ion Ratio Lower Upper
264 100
260 23.8 19.2 28.8
265 22.1 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 18.04 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

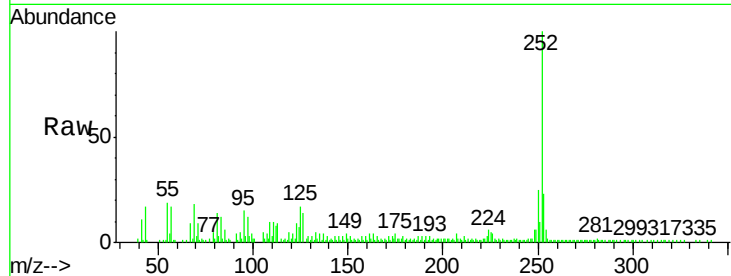
Tot Ion:252 Resp: 89670

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.2

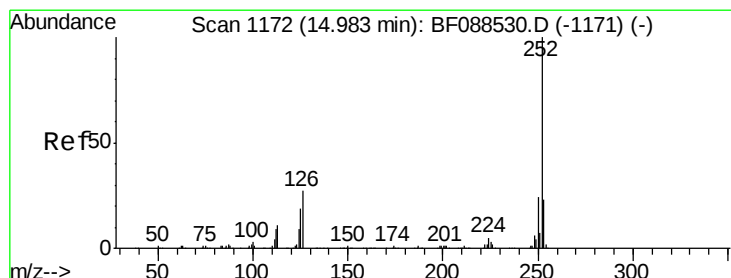
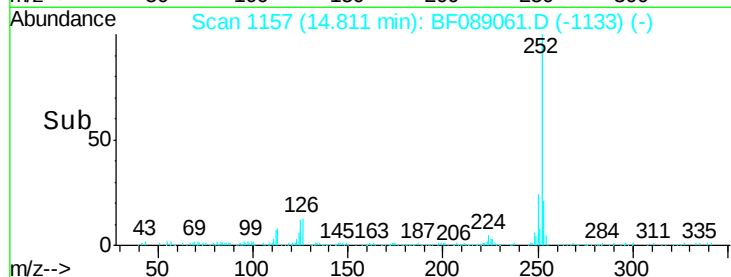
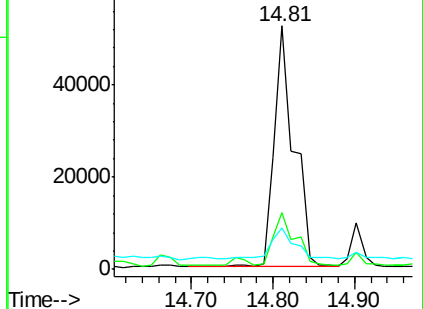
125 17.0 7.1 10.7#



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: 20.73 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.06 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

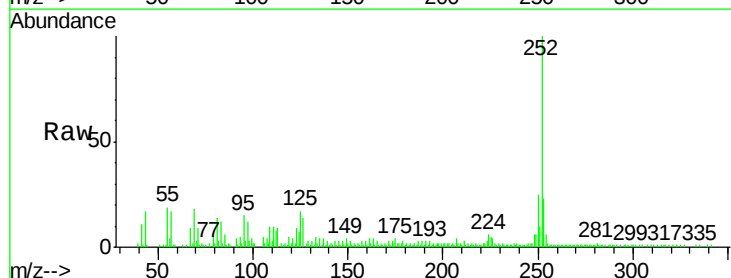
Tgt Ion:252 Resp: 89670

Ion Ratio Lower Upper

252 100

253 23.1 18.0 27.0

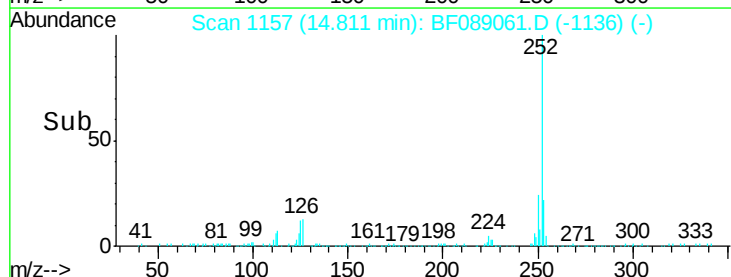
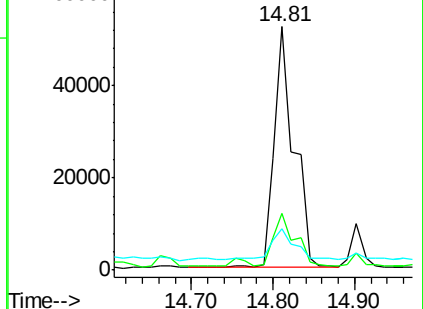
125 17.0 11.2 16.8#

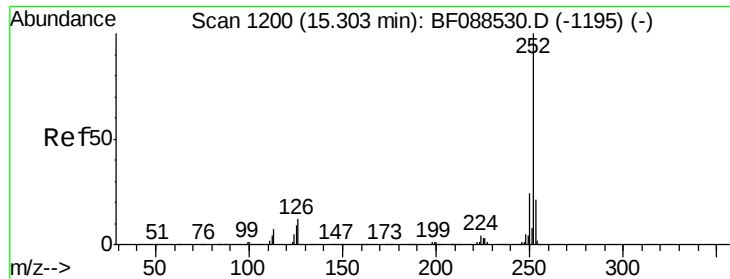


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 10.58 ng

RT: 15.13 min Scan# 1185

Delta R.T. -0.03 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampled :

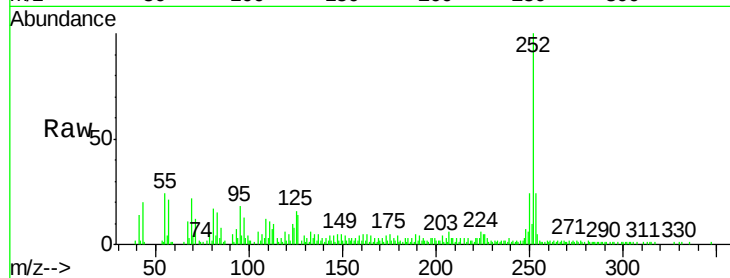
Tot Ion:252 Resp: 44517

Ion Ratio Lower Upper

252 100

253 24.1 17.9 26.9

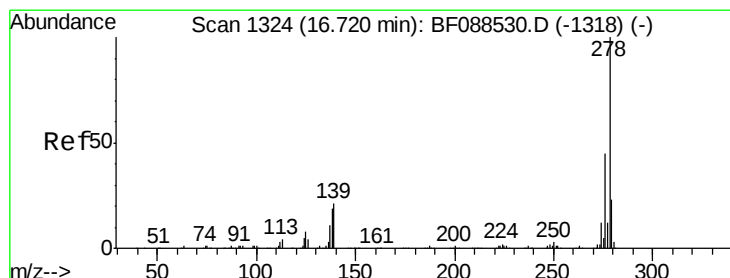
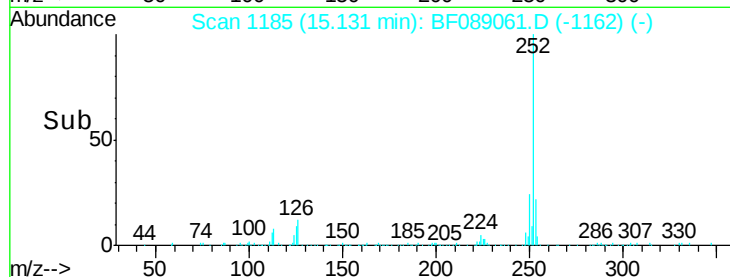
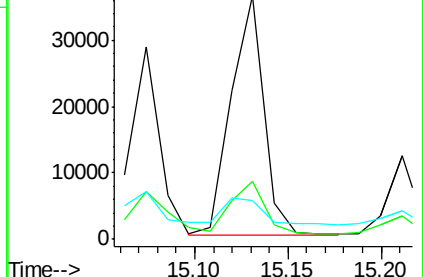
125 15.8 12.5 18.7



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



#90

Dibenzo(a,h)anthracene

Concen: 2.46 ng

RT: 16.47 min Scan# 1302

Delta R.T. -0.05 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

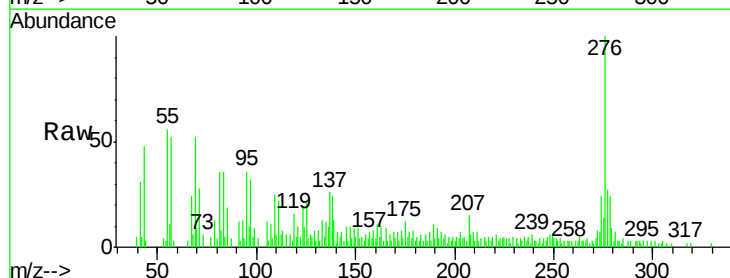
Tgt Ion:278 Resp: 8659

Ion Ratio Lower Upper

278 100

139 51.6 15.7 23.5#

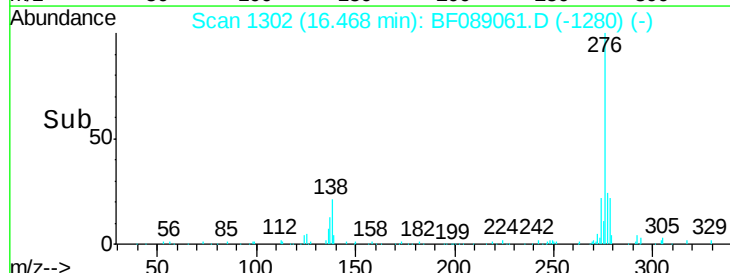
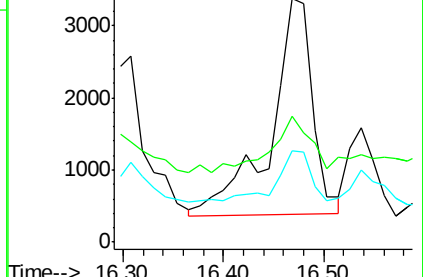
279 37.4 19.4 29.2#

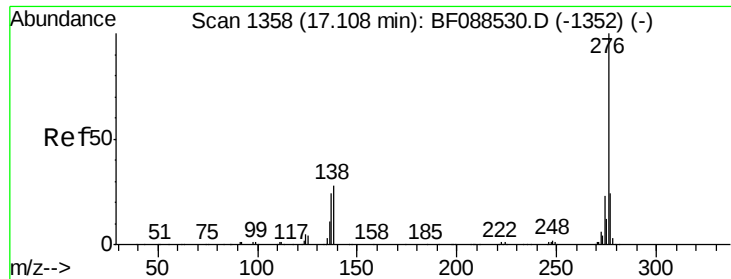


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 6.21 ng

RT: 16.85 min Scan# 1335

Delta R.T. -0.05 min

Lab File: BF089061.D

Acq: 16 Jul 2016 18:12

Instrument :

BNA_F

ClientSampleId :

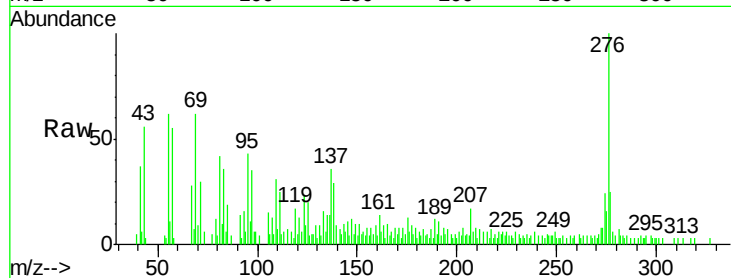
Tot Ion: 276 Resp: 22564

Ion Ratio Lower Upper

276 100

277 25.4 18.9 28.3

138 28.9 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

