

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
 Data File : BF089896.D
 Acq On : 25 Aug 2016 2:26
 Operator : UM/SJ
 Sample : H4576-04
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-19A-(14.8-15)

Quant Time: Aug 25 17:02:33 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

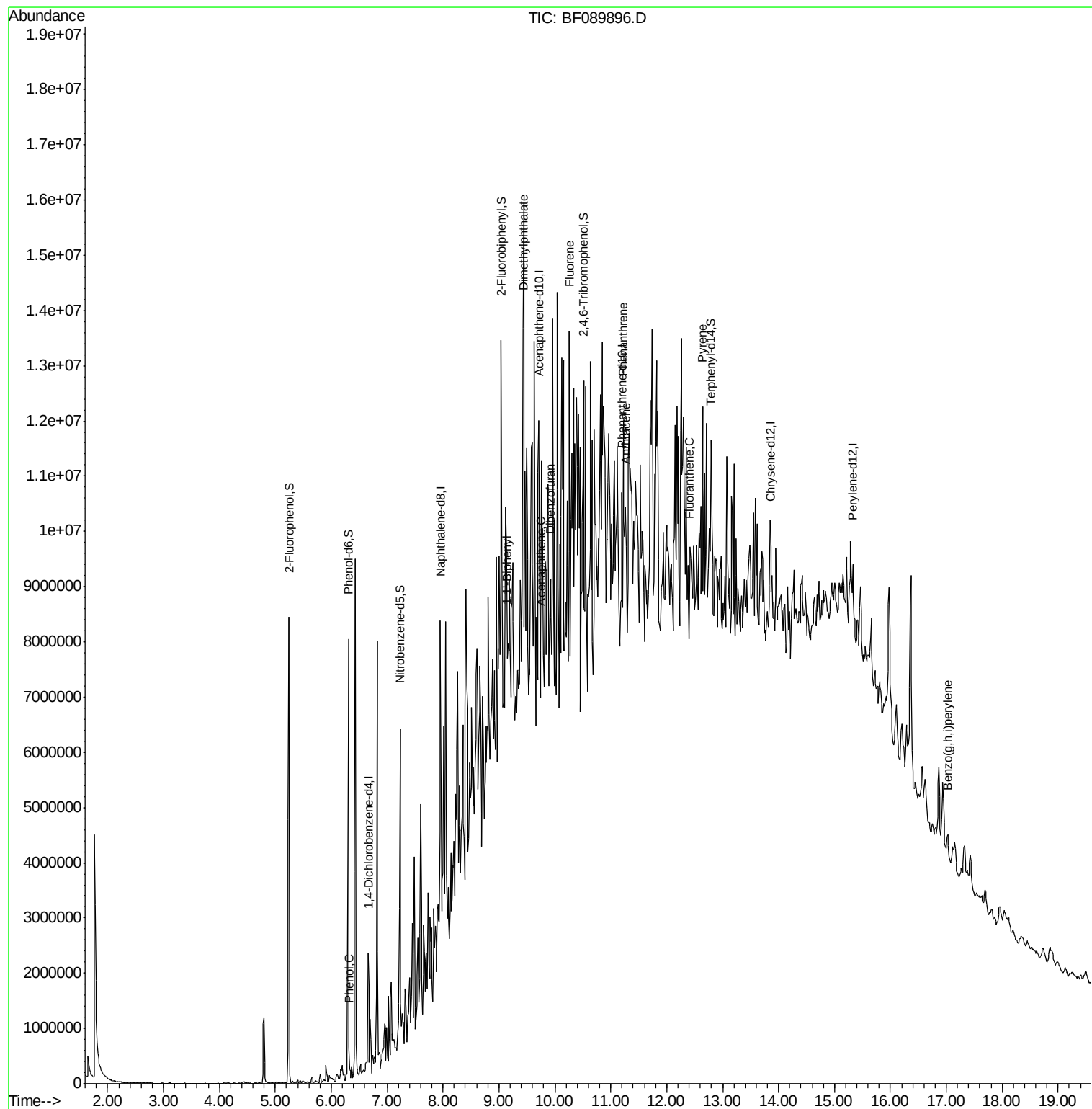
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	416428	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	1522265	20.00	ng	-0.02
38) Acenaphthene-d10	9.71	164	591493	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	1089114	20.00	ng	0.01
75) Chrysene-d12	13.86	240	777803	20.00	ng	-0.01
86) Perylene-d12	15.33	264	790674	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	2949488	121.46	ng	-0.01
7) Phenol-d6	6.31	99	3368498	113.00	ng	-0.01
23) Nitrobenzene-d5	7.23	82	1900572	77.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	610983	108.69	ng	0.01
44) 2-Fluorobiphenyl	9.04	172	2772058	82.37	ng	-0.01
78) Terphenyl-d14	12.79	244	1819353	52.92	ng	0.00
Target Compounds						
10) Phenol	6.32	94	90153	2.58	ng	# 75
45) 1,1'-Biphenyl	9.14	154	340048	7.43	ng	96
49) Dimethylphthalate	9.44	163	624839	15.00	ng	# 67
51) Acenaphthene	9.75	154	389655	10.83	ng	94
54) Dibenzofuran	9.92	168	315358	6.98	ng	# 93
57) Fluorene	10.26	166	849541	23.59	ng	# 74
70) Phenanthrene	11.22	178	2114403	38.44	ng	# 95
71) Anthracene	11.27	178	901212	16.12	ng	# 55
74) Fluoranthene	12.41	202	390689	7.47	ng	74
77) Pyrene	12.64	202	3094851	48.86	ng	# 96
91) Benzo(a,h,i)perylene	17.03	276	284209	6.04	ng	# 79

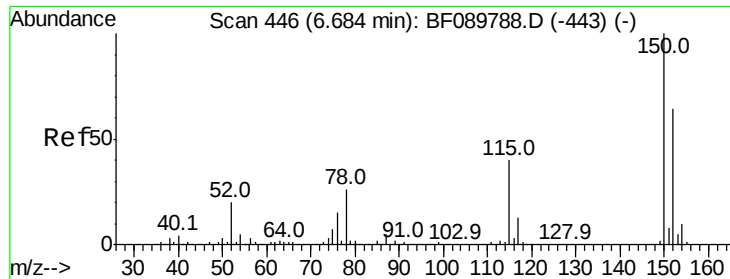
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.02 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

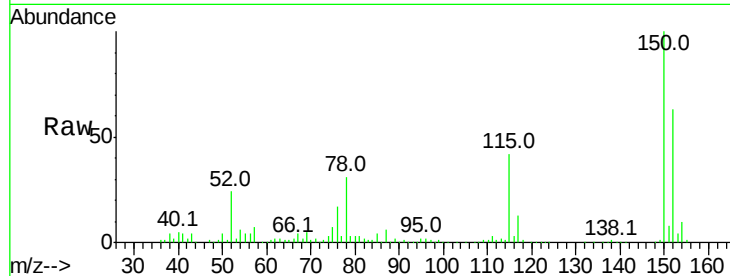
Tot Ion:152 Resp: 416428

Ion Ratio Lower Upper

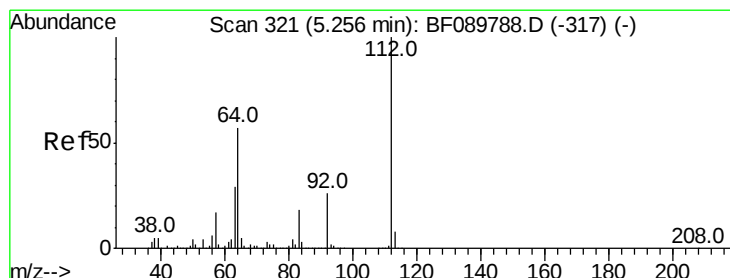
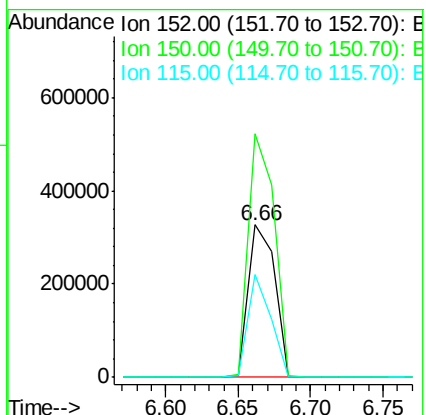
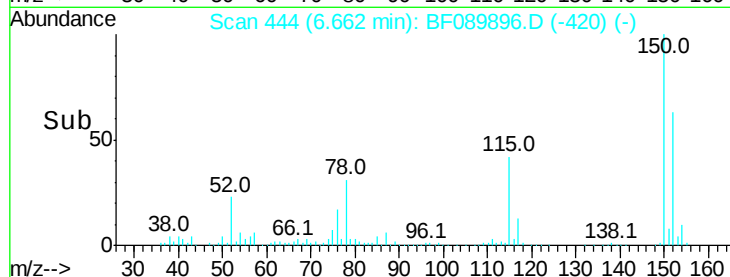
152 100

150 159.6 125.3 187.9

115 67.4 40.9 61.3#



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: 121.46 ng

RT: 5.24 min Scan# 320

Delta R.T. -0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

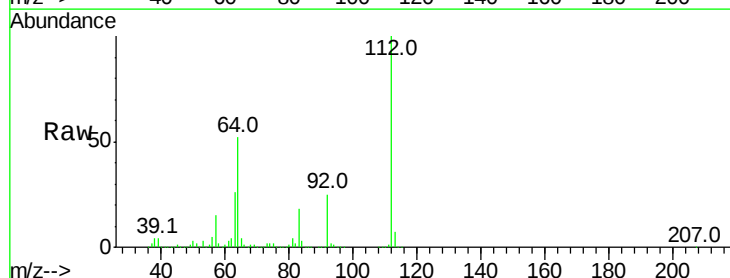
Tgt Ion:112 Resp: 2949488

Ion Ratio Lower Upper

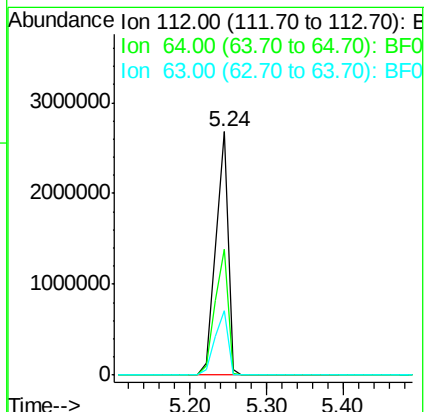
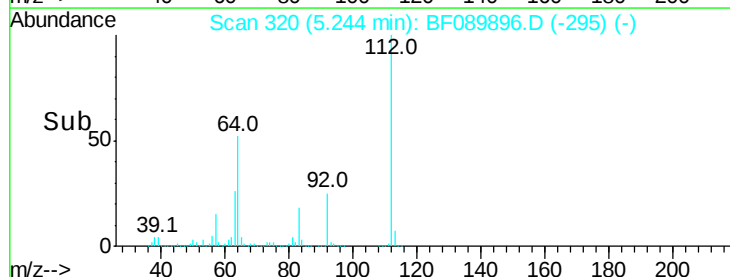
112 100

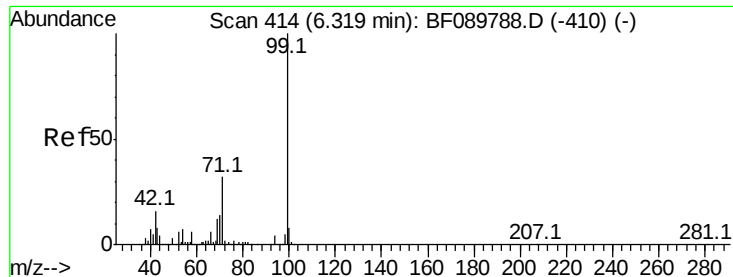
64 51.7 45.0 67.4

63 26.3 23.1 34.7



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: 113.00 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

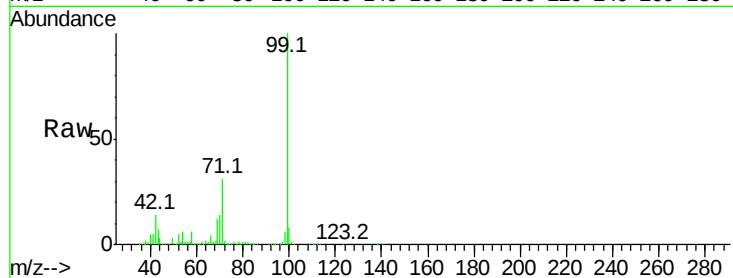
Tot Ion: 99 Resp: 3368498

Ion Ratio Lower Upper

99 100

42 13.8 12.2 18.4

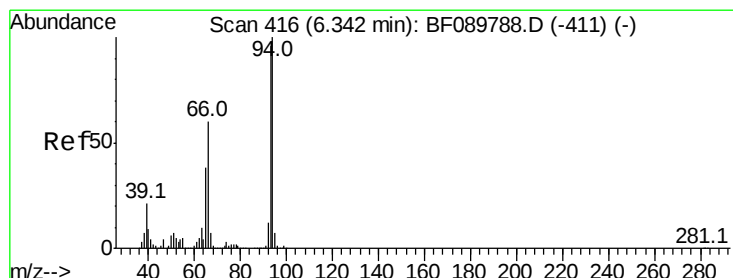
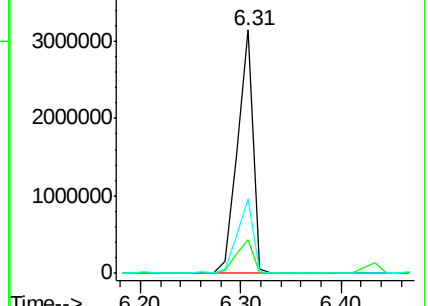
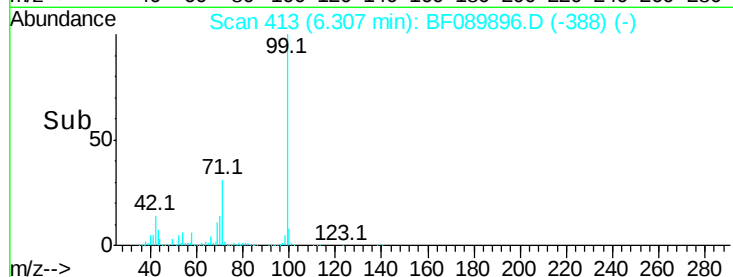
71 30.8 23.8 35.8



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: 2.58 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.02 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

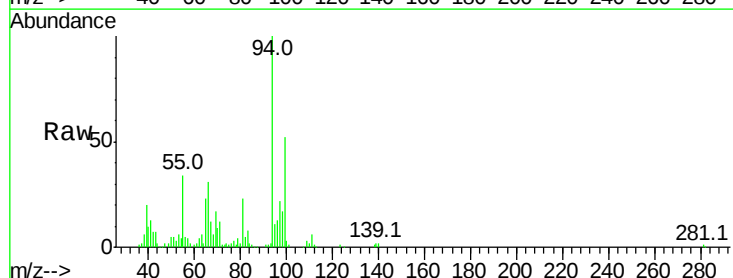
Tgt Ion: 94 Resp: 90153

Ion Ratio Lower Upper

94 100

65 23.0 14.0 54.0

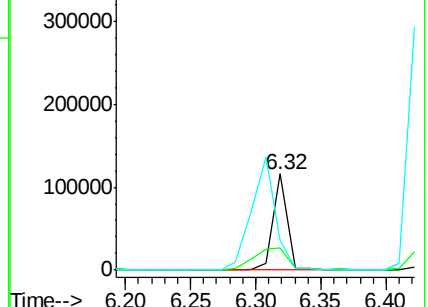
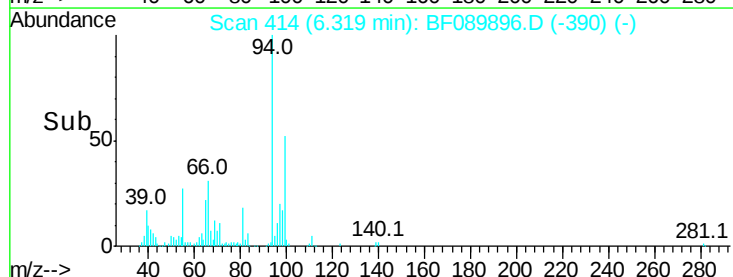
66 30.7 31.2 71.2#

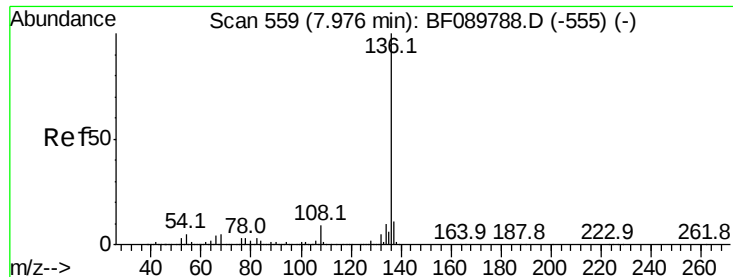


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 557

Delta R.T. -0.02 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

Tot Ion:136 Resp: 1522265

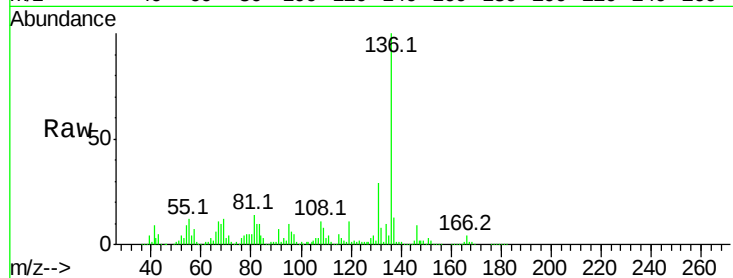
Ion	Ratio	Lower	Upper
136	100		
137	12.7	9.2	13.8
54	8.7	7.2	10.8
68	9.6	5.8	8.8#

136 100

137 12.7 9.2 13.8

54 8.7 7.2 10.8

68 9.6 5.8 8.8#



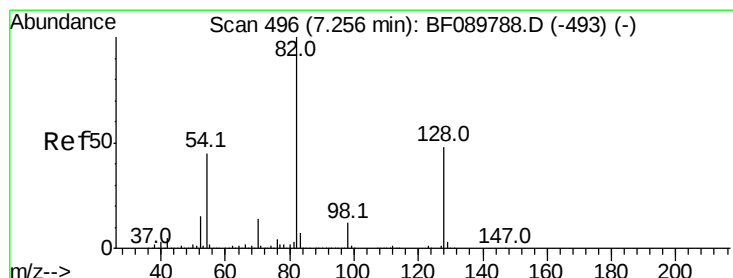
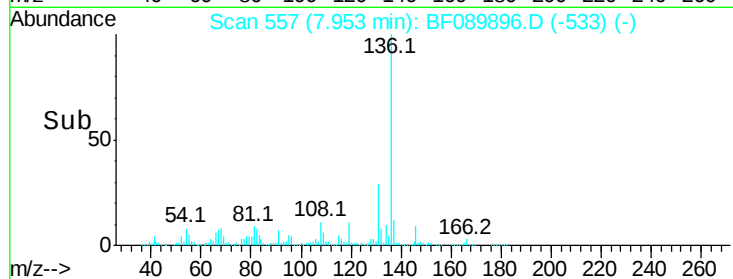
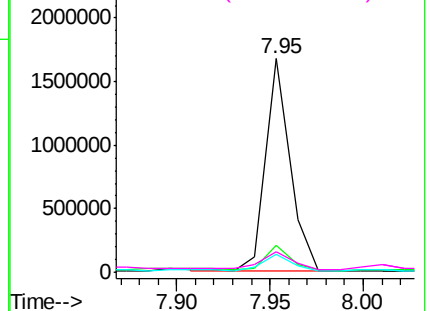
Abundance

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: 77.56 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.02 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

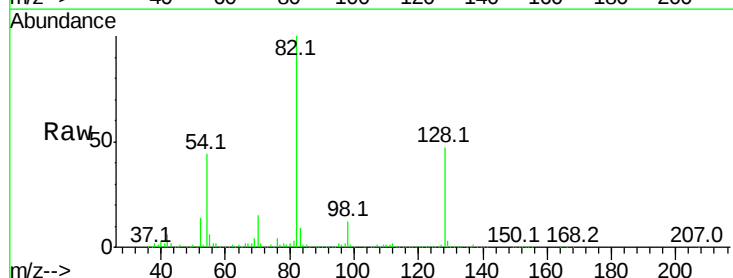
Tgt Ion: 82 Resp: 1900572

Ion	Ratio	Lower	Upper
82	100		
128	46.6	34.4	51.6
54	44.4	40.3	60.5

82 100

128 46.6 34.4 51.6

54 44.4 40.3 60.5

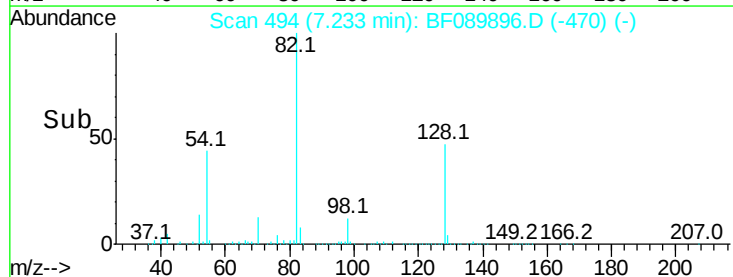
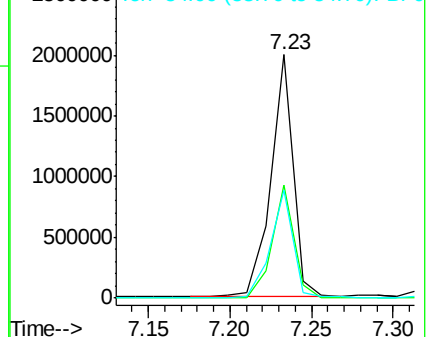


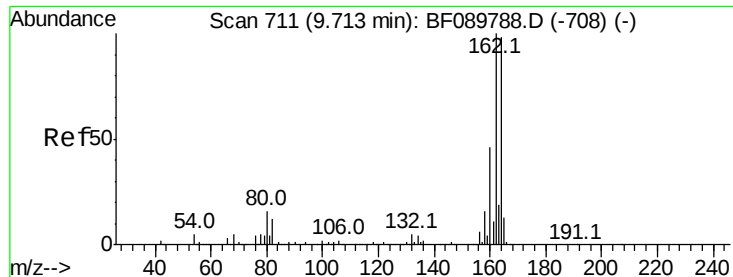
Abundance

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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. 0.00 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

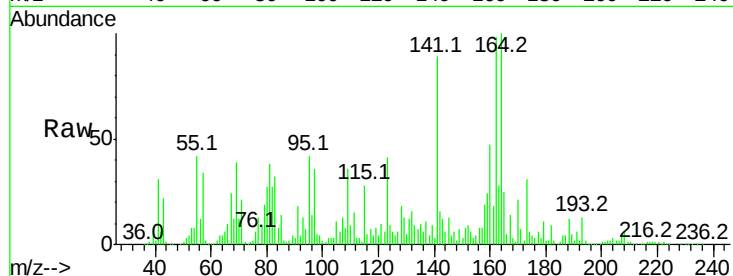
Tot Ion:164 Resp: 591493

Ion Ratio Lower Upper

164 100

162 97.9 81.4 122.2

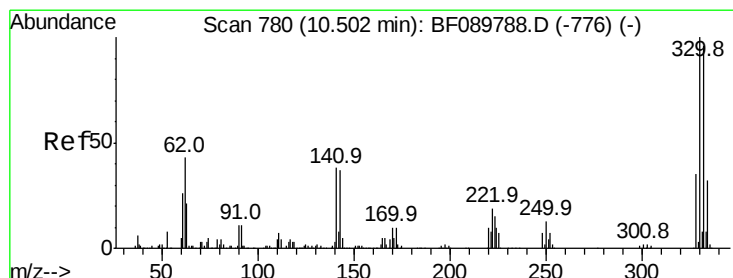
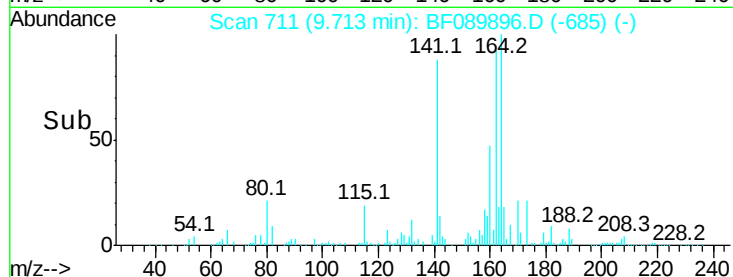
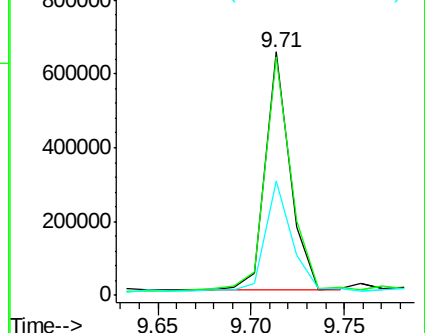
160 47.1 37.8 56.6



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: 108.69 ng

RT: 10.51 min Scan# 781

Delta R.T. 0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

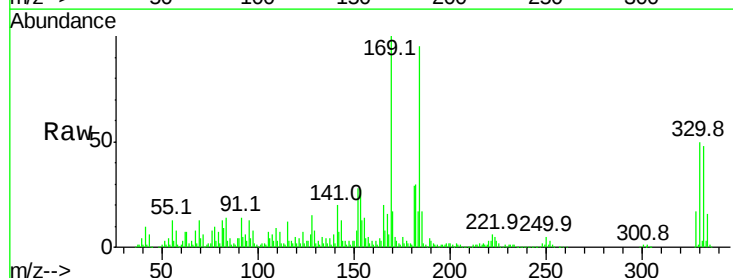
Tgt Ion:330 Resp: 610983

Ion Ratio Lower Upper

330 100

332 95.5 76.7 115.1

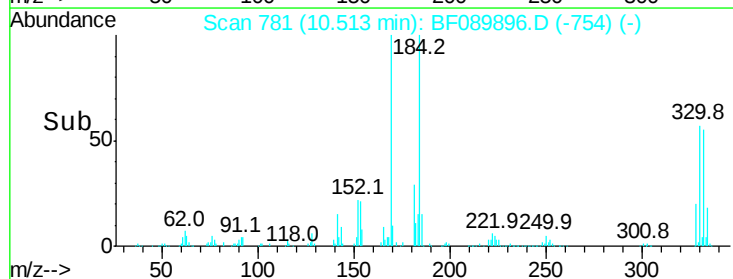
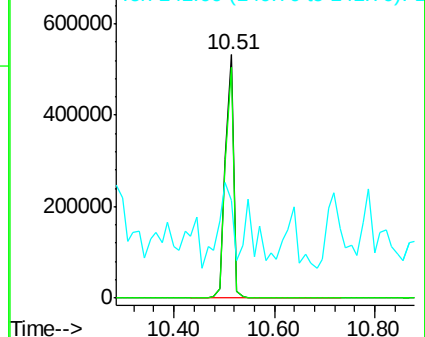
141 60.5 30.2 45.2#

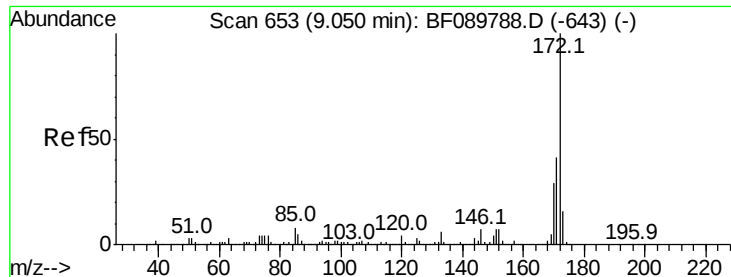


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 82.37 ng

RT: 9.04 min Scan# 652

Delta R.T. -0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

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ClientSampleId :

SB-19A-(14.8-15)

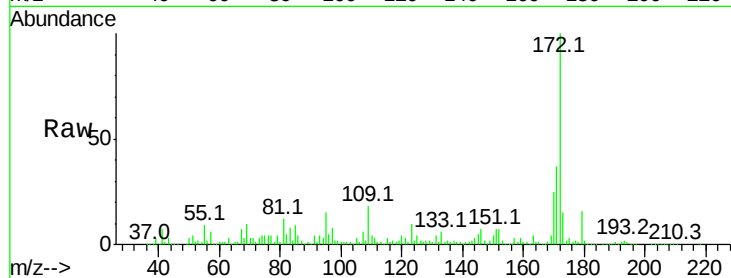
Tot Ion:172 Resp: 2772058

Ion Ratio Lower Upper

172 100

171 36.8 30.5 45.7

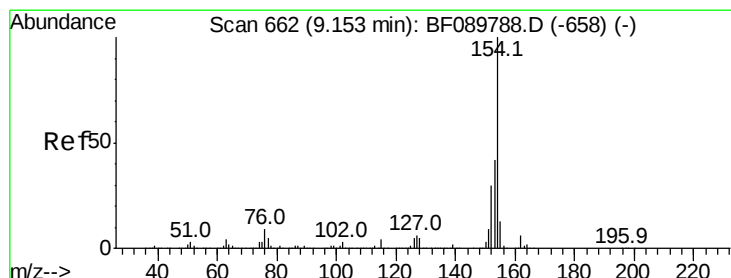
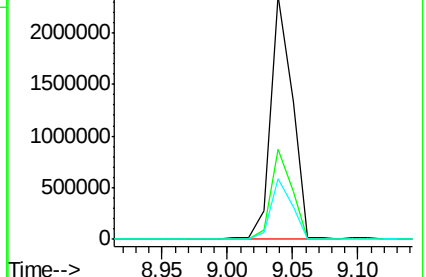
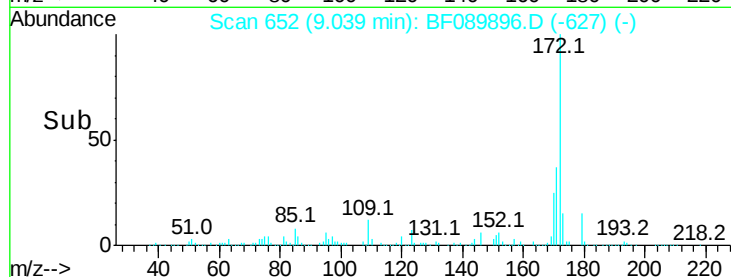
170 24.9 20.6 31.0



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: 7.43 ng

RT: 9.14 min Scan# 661

Delta R.T. -0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

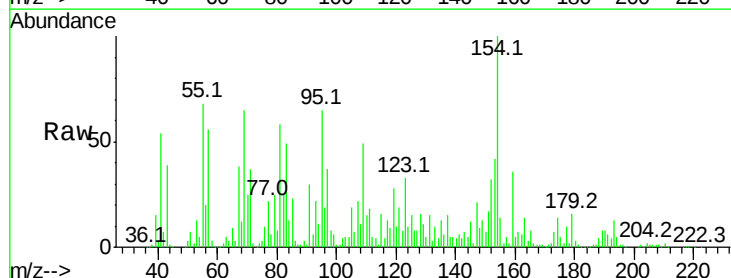
Tgt Ion:154 Resp: 340048

Ion Ratio Lower Upper

154 100

153 41.6 21.5 61.5

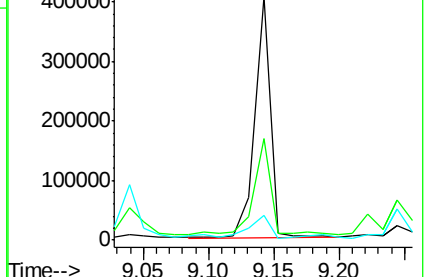
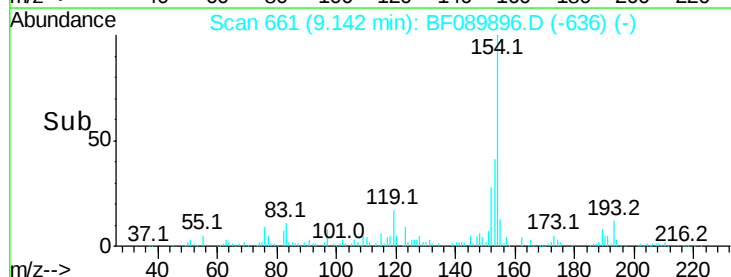
76 10.3 0.0 36.7

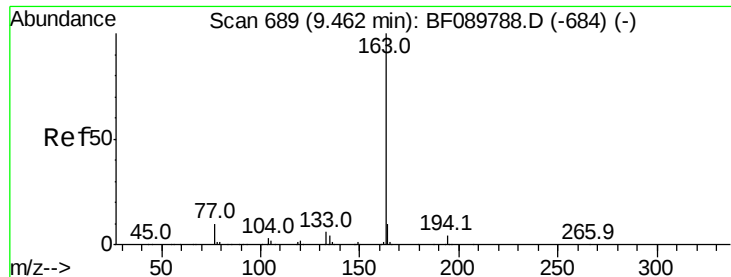


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0

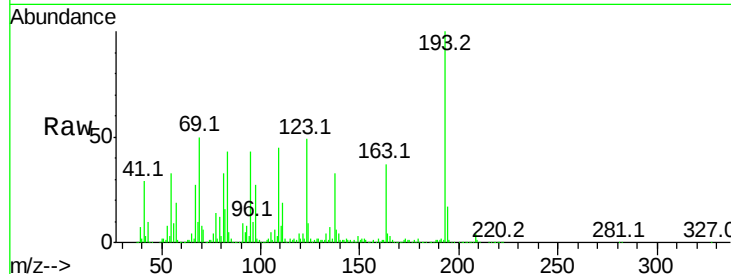




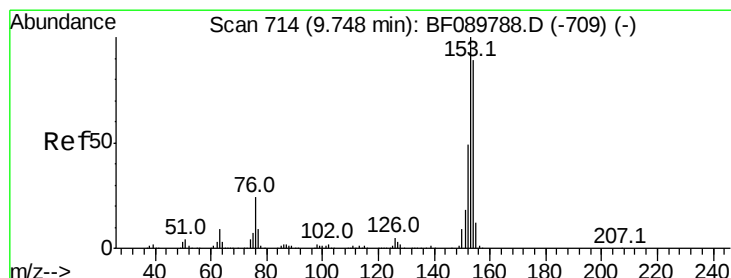
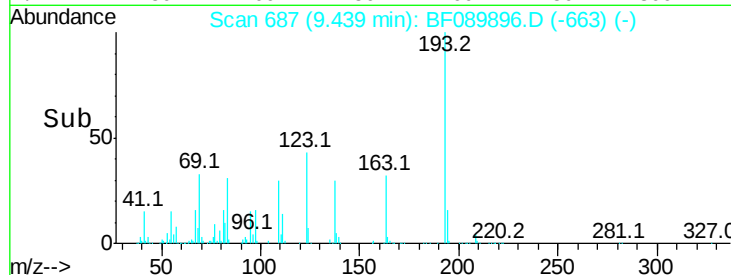
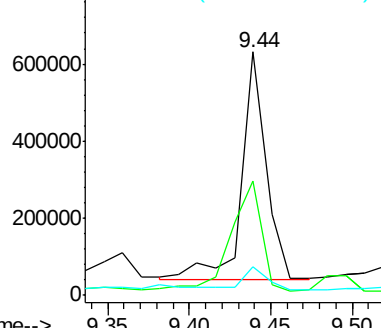
#49
Dimethylphthalate
Concen: 15.00 ng
RT: 9.44 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF089896.D
Acq: 25 Aug 2016 2:26

Instrument :
BNA_F
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SB-19A-(14.8-15)

Tot Ion	Ratio	Lower	Upper
163	100		
194	47.0	2.6	3.8#
164	11.7	8.6	12.8

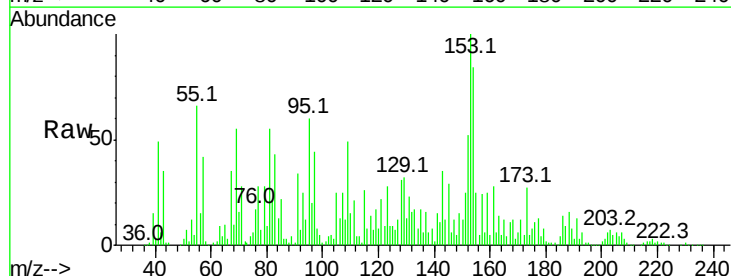


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

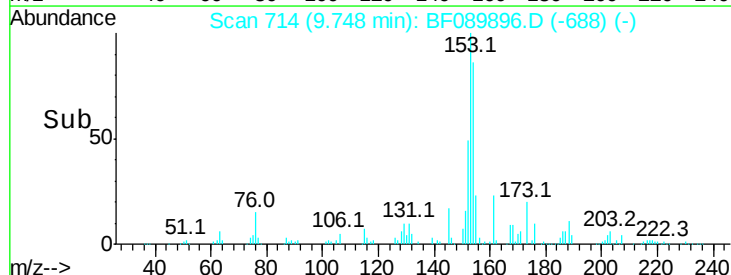
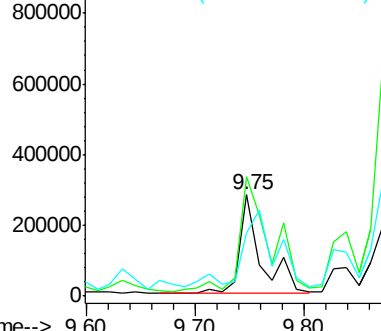


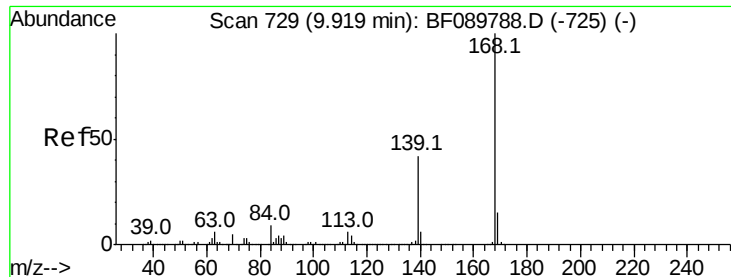
#51
Acenaphthene
Concen: 10.83 ng
RT: 9.75 min Scan# 714
Delta R.T. 0.00 min
Lab File: BF089896.D
Acq: 25 Aug 2016 2:26

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.5	90.5	135.7
152	62.0	44.6	67.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

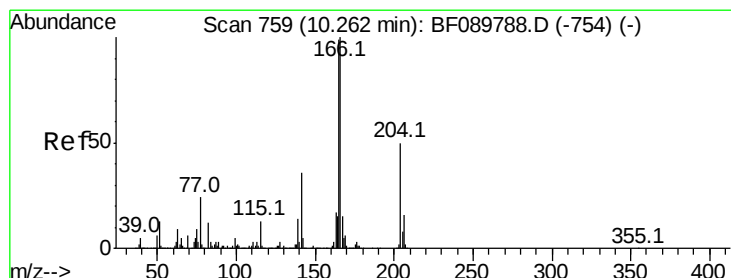
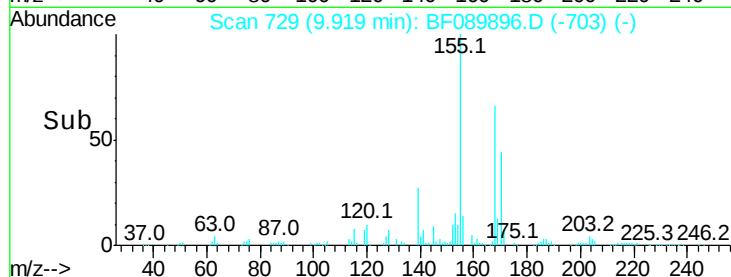
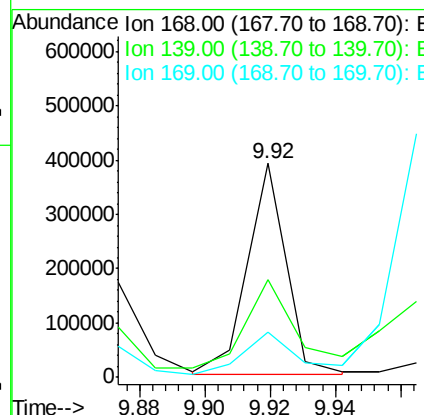
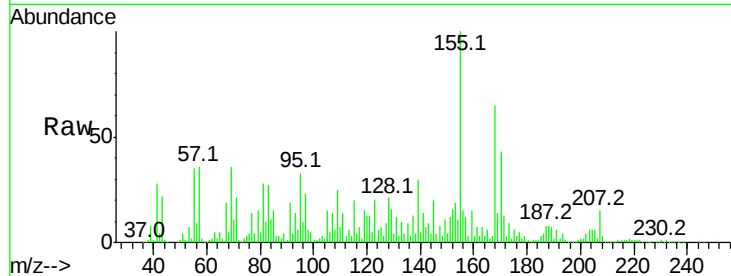




#54
Dibenzenofuran
Concen: 6.98 ng
RT: 9.92 min Scan# 729
Delta R.T. 0.00 min
Lab File: BF089896.D
Acq: 25 Aug 2016 2:26

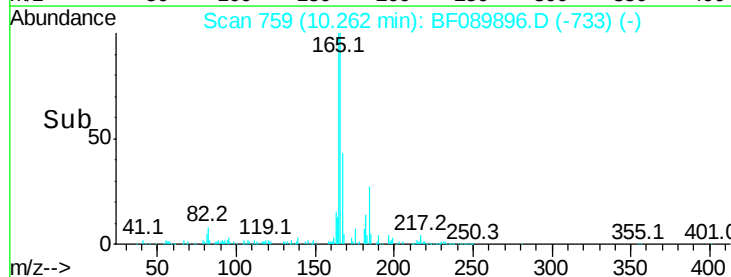
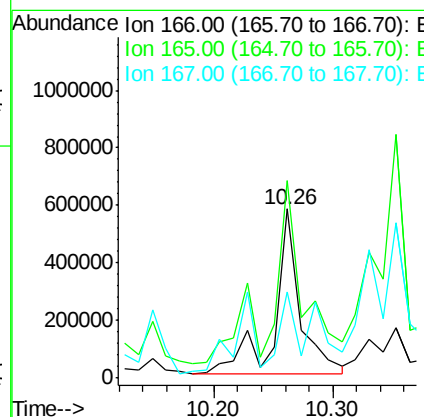
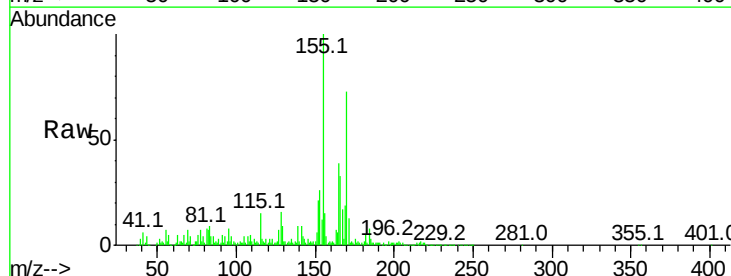
Instrument :
BNA_F
ClientSampleId :
SB-19A-(14.8-15)

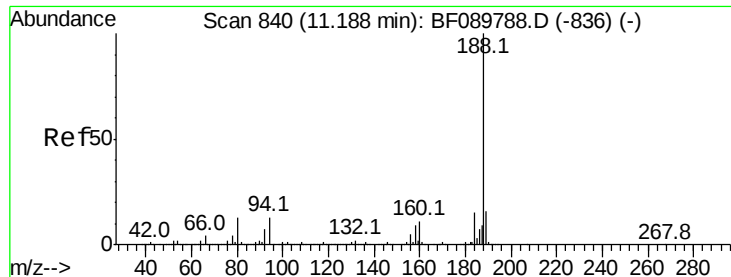
Tot Ion	Ratio	Lower	Upper
168	100		
139	45.9	34.6	52.0
169	21.2	11.5	17.3#



#57
Fluorene
Concen: 23.59 ng
RT: 10.26 min Scan# 759
Delta R.T. 0.00 min
Lab File: BF089896.D
Acq: 25 Aug 2016 2:26

Tgt Ion	Ratio	Lower	Upper
166	100		
165	116.7	80.2	120.4
167	51.3	11.3	16.9#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.20 min Scan# 841

Delta R.T. 0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

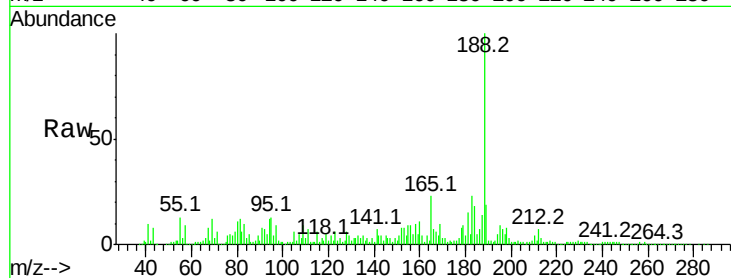
Tot Ion:188 Resp: 1089114

Ion Ratio Lower Upper

188 100

94 11.8 10.2 15.2

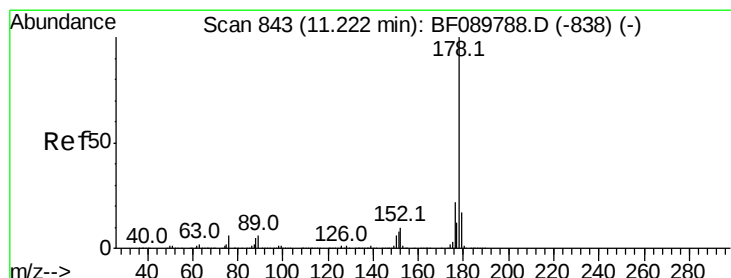
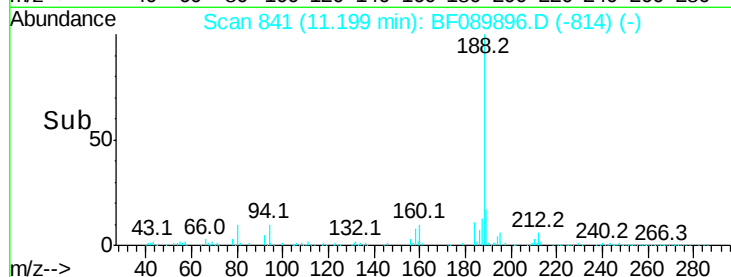
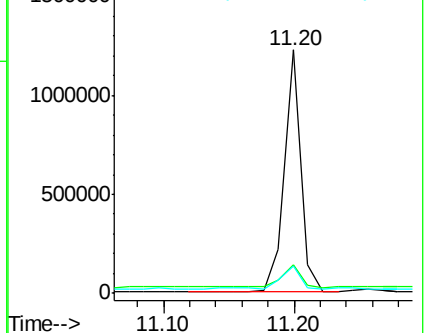
80 11.1 10.9 16.3



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: 38.44 ng

RT: 11.22 min Scan# 843

Delta R.T. 0.00 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

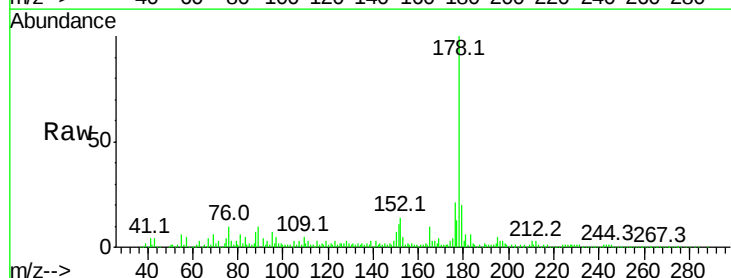
Tgt Ion:178 Resp: 2114403

Ion Ratio Lower Upper

178 100

176 20.9 16.4 24.6

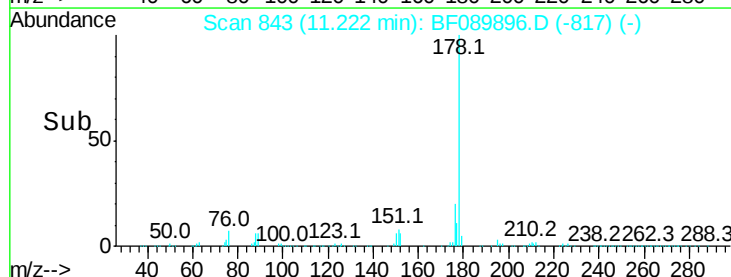
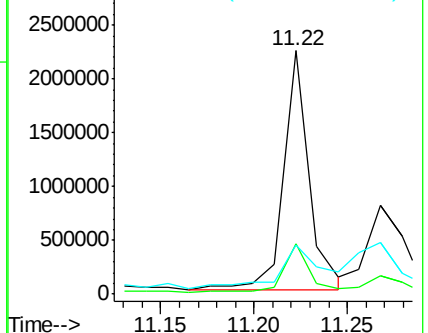
179 20.1 12.5 18.7#

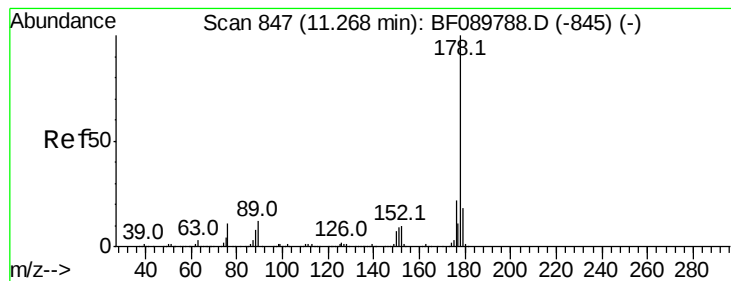


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 16.12 ng

RT: 11.27 min Scan# 847

Delta R.T. 0.00 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

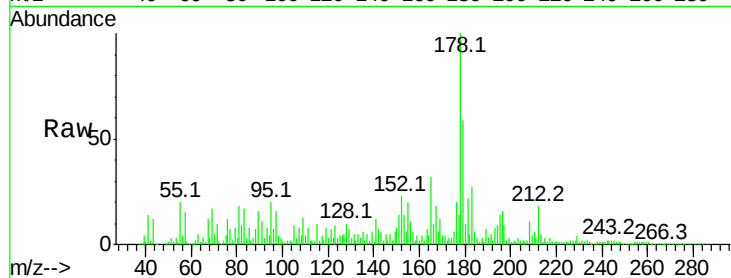
Tot Ion:178 Resp: 901212

Ion Ratio Lower Upper

178 100

176 20.0 16.4 24.6

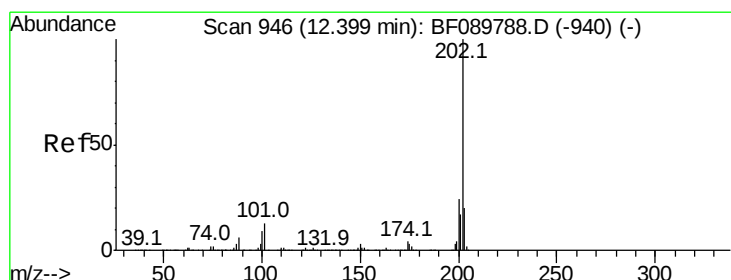
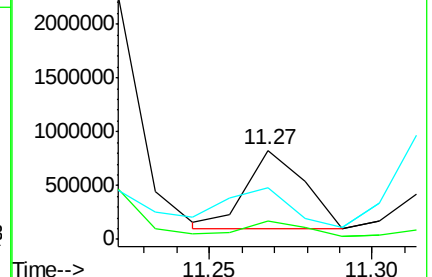
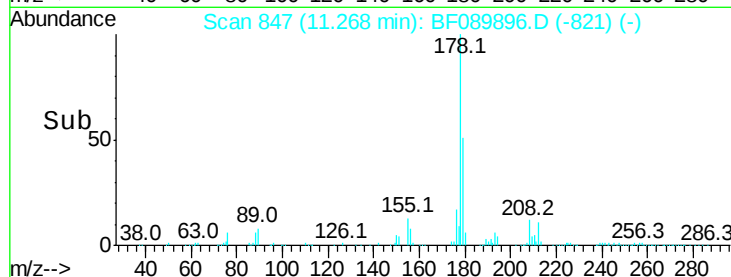
179 58.7 13.1 19.7#



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: 7.47 ng

RT: 12.41 min Scan# 947

Delta R.T. 0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

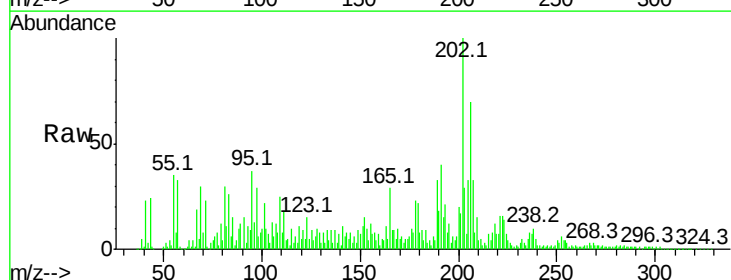
Tgt Ion:202 Resp: 390689

Ion Ratio Lower Upper

202 100

101 21.6 0.0 31.2

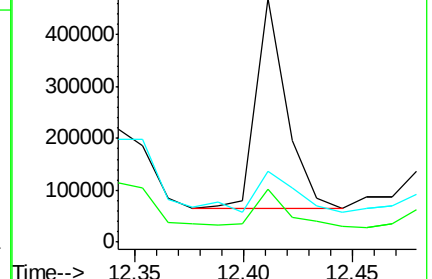
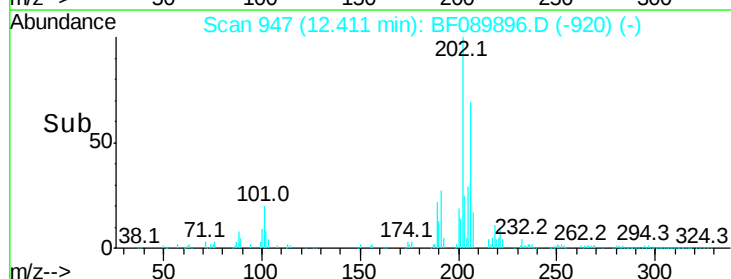
203 29.3 0.0 38.1

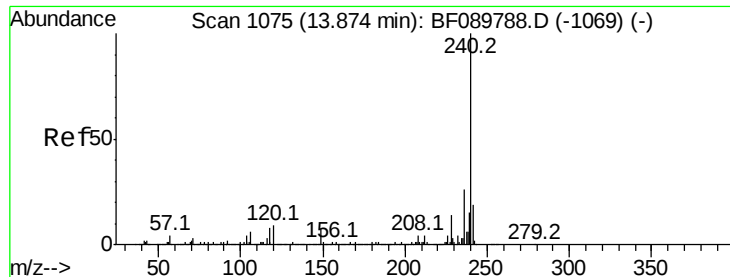


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.86 min Scan# 1074

Delta R.T. -0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

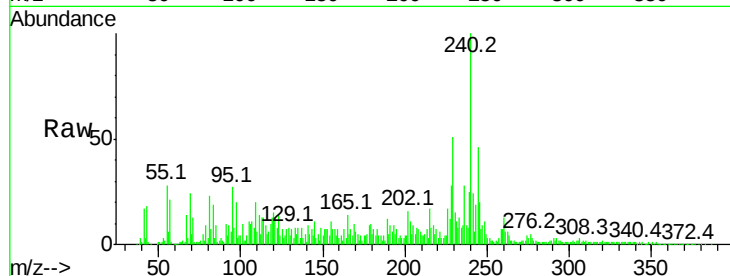
Tot Ion:240 Resp: 777803

Ion Ratio Lower Upper

240 100

120 15.2 8.3 12.5#

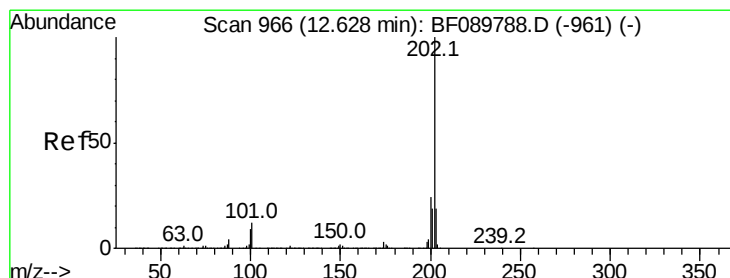
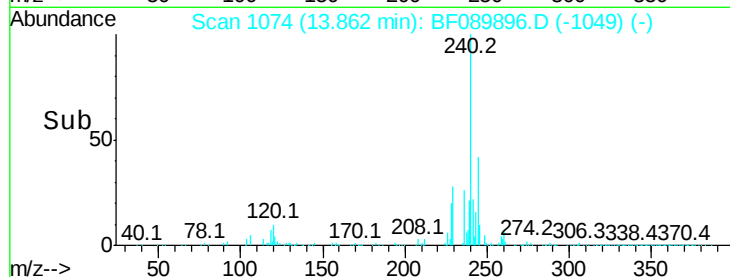
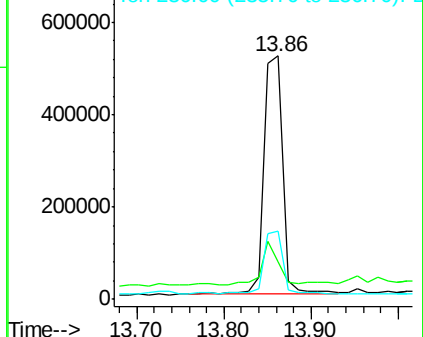
236 28.2 21.3 31.9



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: 48.86 ng

RT: 12.64 min Scan# 967

Delta R.T. 0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

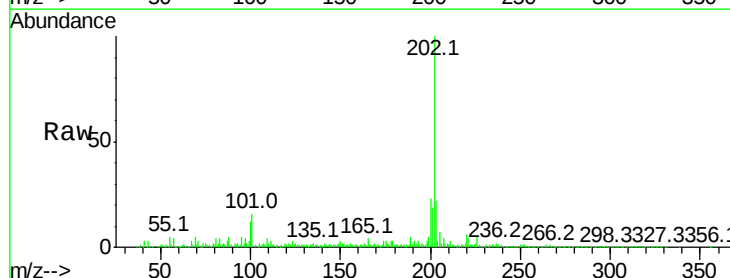
Tgt Ion:202 Resp: 3094851

Ion Ratio Lower Upper

202 100

200 22.5 17.8 26.6

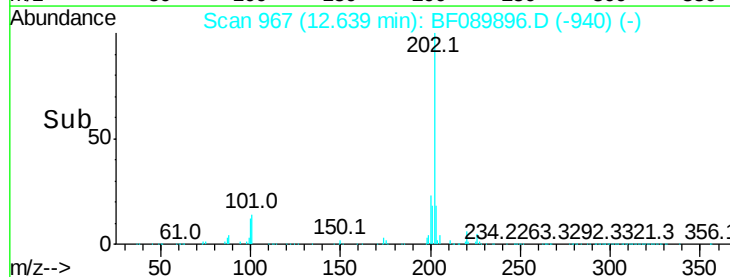
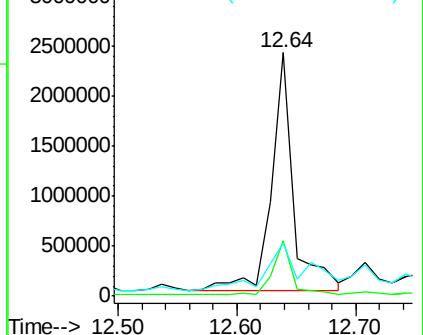
203 21.8 14.2 21.4#

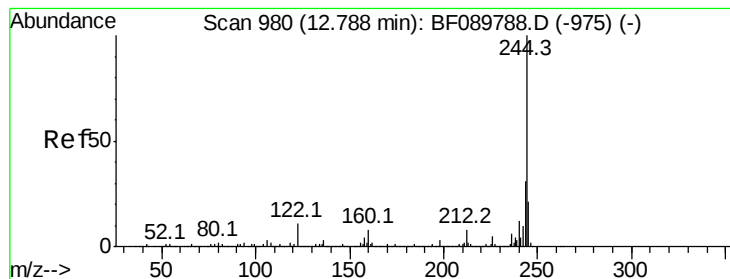


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 52.92 ng

RT: 12.79 min Scan# 980

Delta R.T. 0.00 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

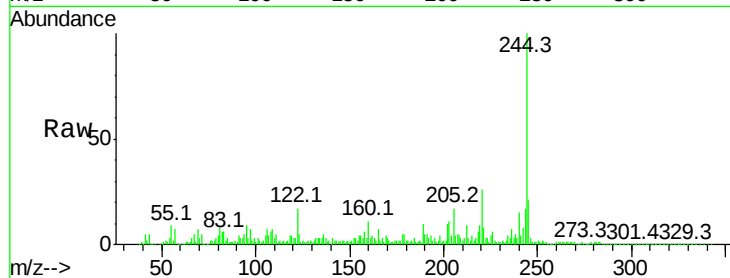
Tot Ion:244 Resp: 1819353

Ion Ratio Lower Upper

244 100

212 8.6 6.3 9.5

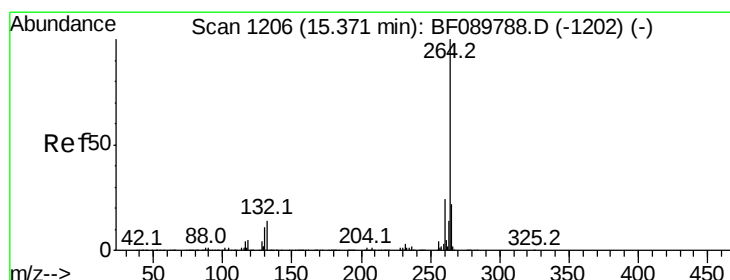
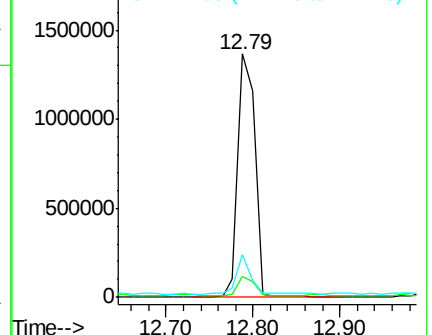
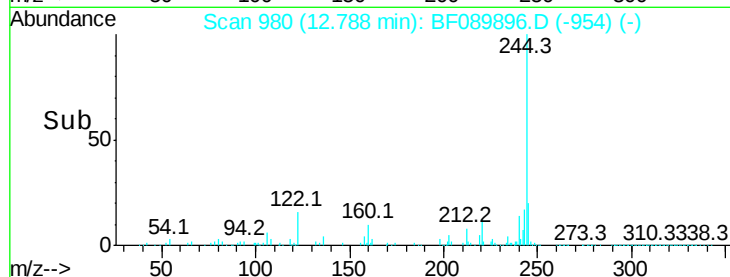
122 17.4 12.0 18.0



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.33 min Scan# 1202

Delta R.T. -0.05 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

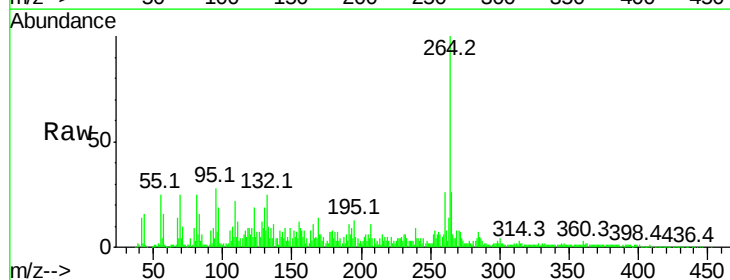
Tgt Ion:264 Resp: 790674

Ion Ratio Lower Upper

264 100

260 26.0 20.2 30.2

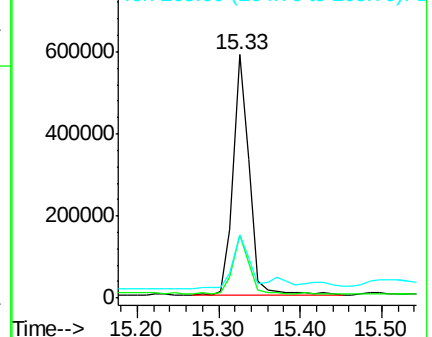
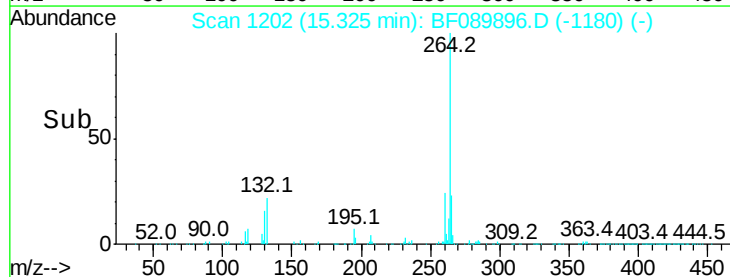
265 25.9 17.4 26.2

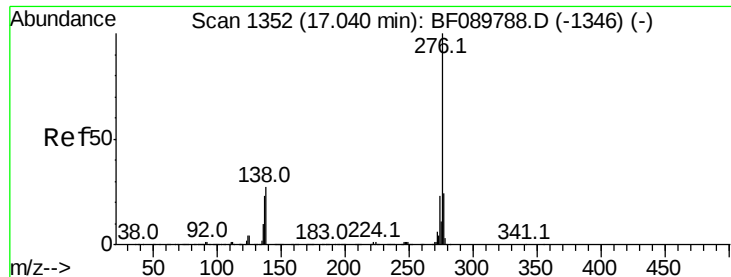


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#91

Benzo(a,h,i)perylene

Concen: 6.04 ng

RT: 17.03 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BF089896.D

Acq: 25 Aug 2016 2:26

Instrument :

BNA_F

ClientSampleId :

SB-19A-(14.8-15)

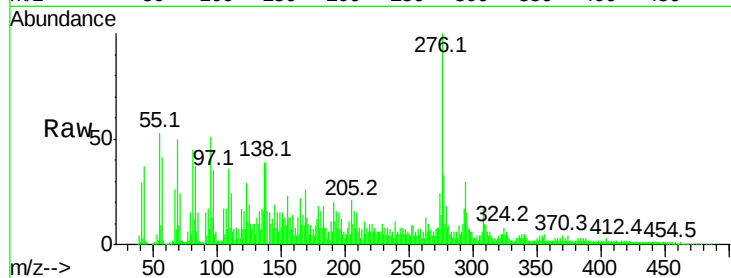
Tot Ion: 276 Resp: 284209

Ion Ratio Lower Upper

276 100

277 33.4 19.2 28.8#

138 39.1 22.1 33.1#



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

