

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089030.D
 Acq On : 15 Jul 2016 22:02
 Operator : UM/SJ
 Sample : H3951-11 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2ft)

Quant Time: Jul 16 01:55:59 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jul 16 00:31:51 2016
 Response via : Initial Calibration

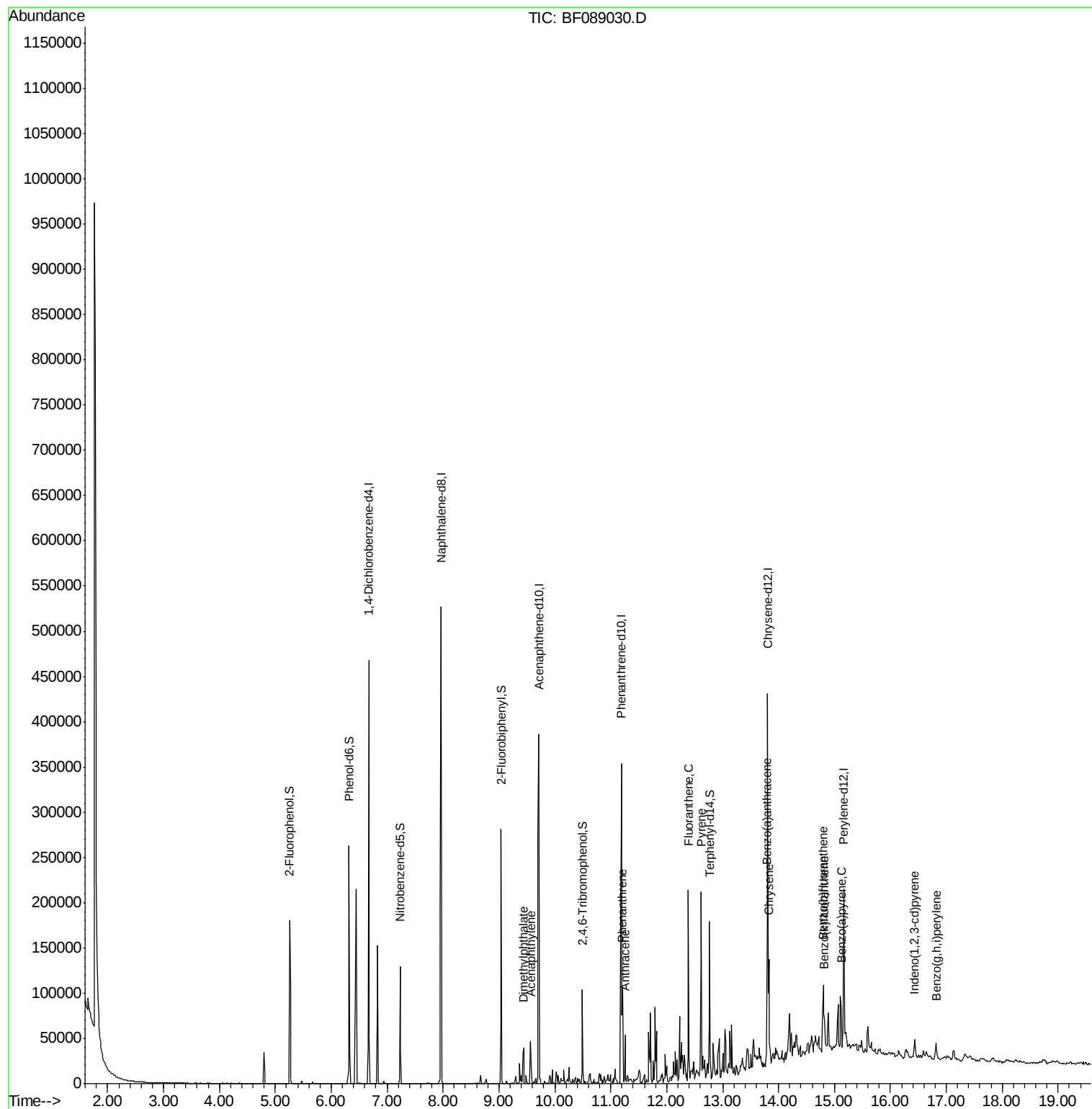
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	62841	20.00	ng	0.00
21) Naphthalene-d8	7.96	136	250978	20.00	ng	0.00
38) Acenaphthene-d10	9.71	164	95010	20.00	ng	0.00
63) Phenanthrene-d10	11.19	188	153566	20.00	ng	0.00
75) Chrysene-d12	13.81	240	106069	20.00	ng	-0.01
86) Perylene-d12	15.17	264	80195	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	58212	13.88	ng	-0.01
7) Phenol-d6	6.32	99	78855	14.55	ng	-0.01
23) Nitrobenzene-d5	7.23	82	42648	8.90	ng	-0.01
41) 2,4,6-Tribromophenol	10.49	330	9214	10.44	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	86936	14.45	ng	0.00
78) Terphenyl-d14	12.77	244	47057	9.88	ng	-0.01
Target Compounds						Qvalue
48) Acenaphthylene	9.56	152	20139	2.05	ng	99
49) Dimethylphthalate	9.44	163	19643	2.90	ng	# 98
70) Phenanthrene	11.21	178	52538	6.26	ng	98
71) Anthracene	11.26	178	20764	2.49	ng	98
74) Fluoranthene	12.39	202	73048	8.58	ng	97
77) Pyrene	12.62	202	100768	11.20	ng	97
80) Benzo(a)anthracene	13.79	228	48095	7.04	ng	# 88
82) Chrysene	13.83	228	35509m	5.25	ng	
85) Indeno(1,2,3-cd)pyrene	16.43	276	12861	2.47	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	33801m	6.72	ng	
88) Benzo(k)fluoranthene	14.81	252	10318m	2.36	ng	
89) Benzo(a)pyrene	15.12	252	27913m	6.55	ng	
91) Benzo(a,h,i)perylene	16.82	276	14023	3.81	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. 0.00 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

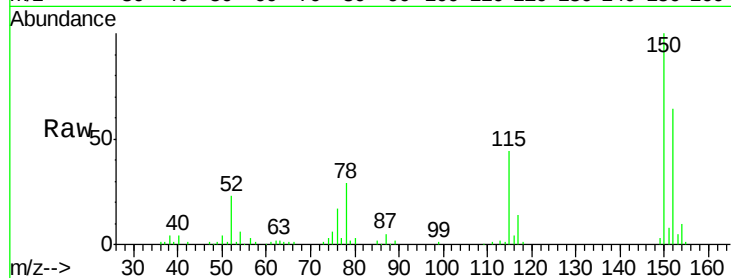
Tot Ion:152 Resp: 62841

Ion Ratio Lower Upper

152 100

150 157.2 123.8 185.6

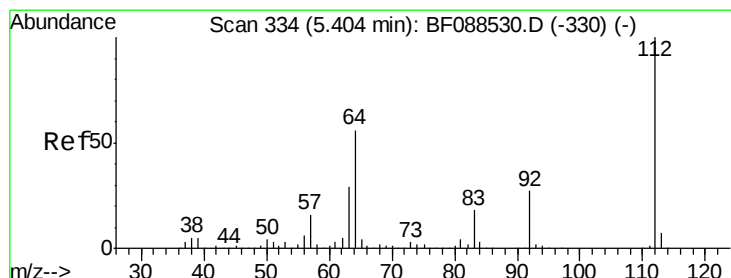
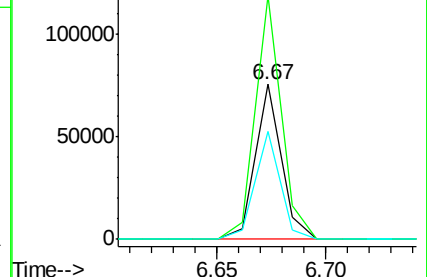
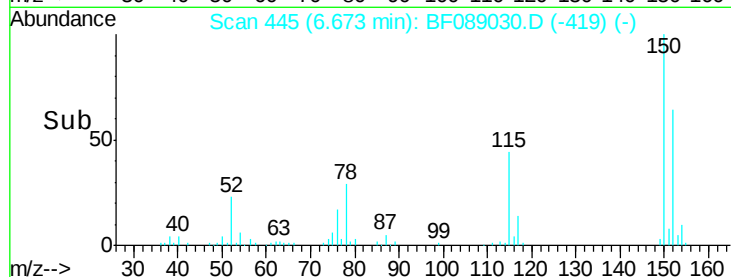
115 69.9 39.6 59.4#



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: 13.88 ng

RT: 5.26 min Scan# 321

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

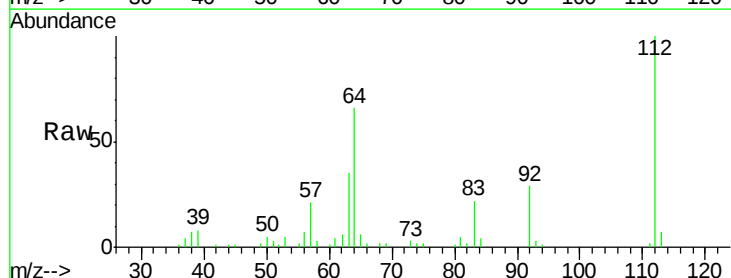
Tgt Ion:112 Resp: 58212

Ion Ratio Lower Upper

112 100

64 66.4 42.2 63.2#

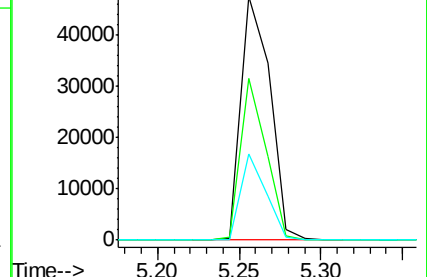
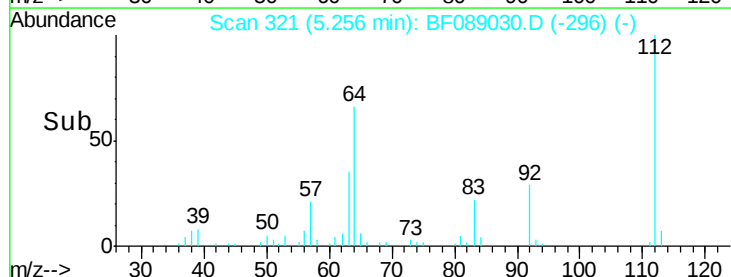
63 35.3 21.8 32.8#



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: 14.55 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

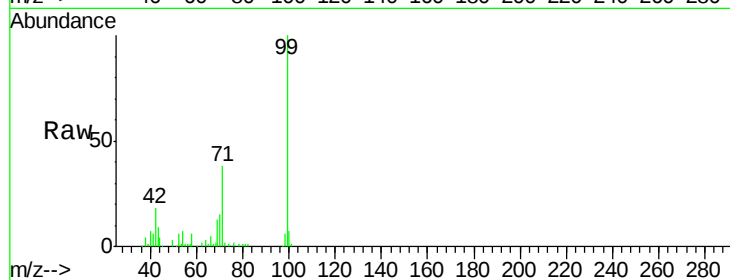
Tot Ion: 99 Resp: 78855

Ion Ratio Lower Upper

99 100

42 17.6 12.2 18.2

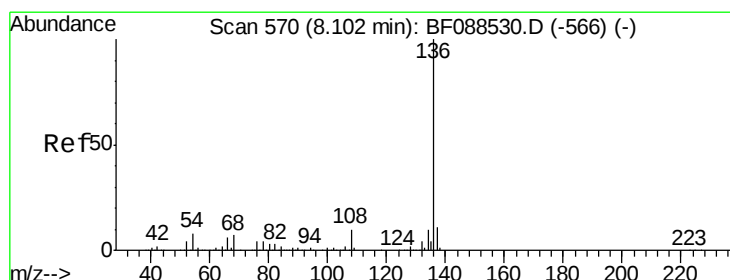
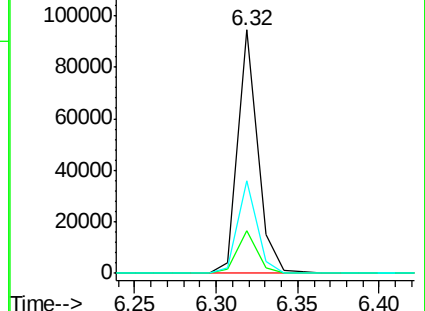
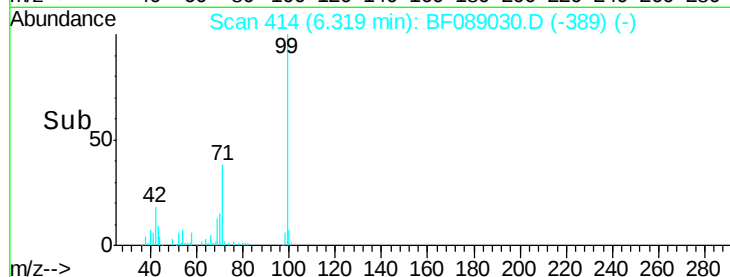
71 38.2 23.4 35.0#



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. 0.00 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Tgt Ion: 136 Resp: 250978

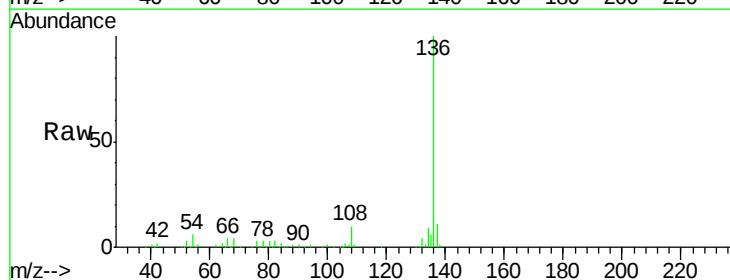
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 5.5 6.6 10.0#

68 4.5 5.1 7.7#

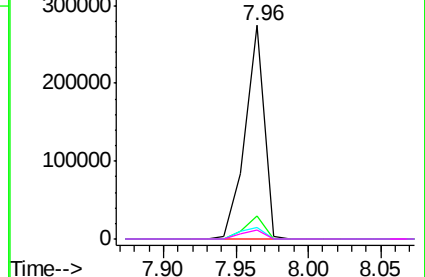
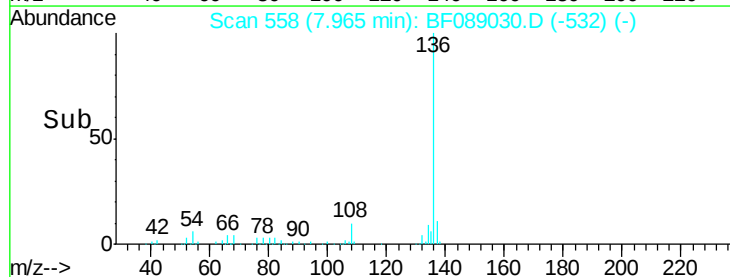


Abundance Ion 136.00 (135.70 to 136.70): E

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

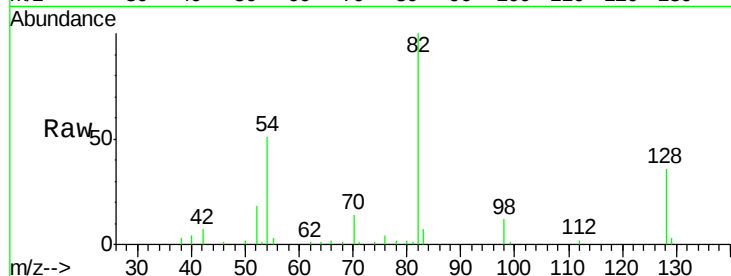




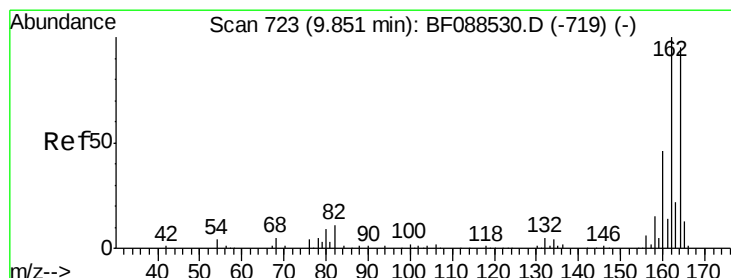
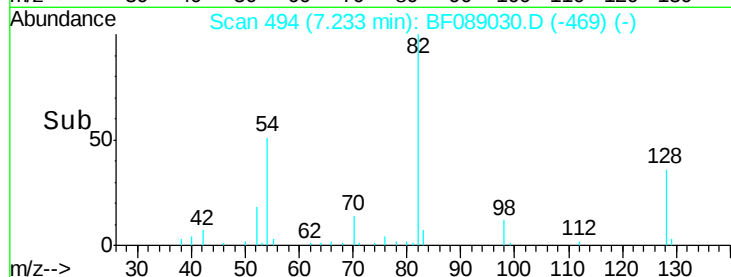
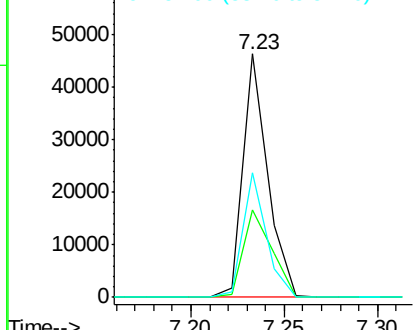
#23
 Nitrobenzene-d5
 Concen: 8.90 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.01 min
 Lab File: BF089030.D
 Acq: 15 Jul 2016 22:02

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2ft)

Tot Ion: 82 Resp: 42648
 Ion Ratio Lower Upper
 82 100
 128 35.8 35.9 53.9#
 54 51.1 40.9 61.3

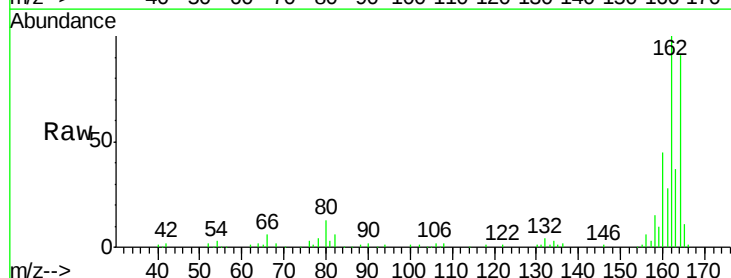


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

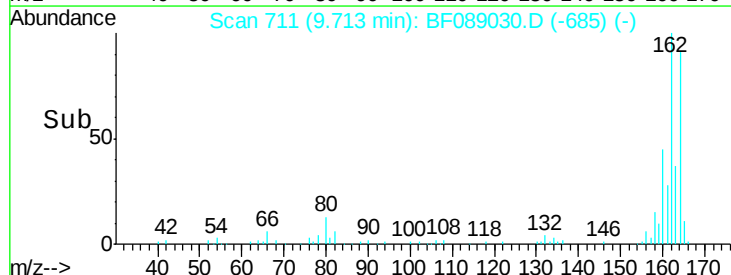
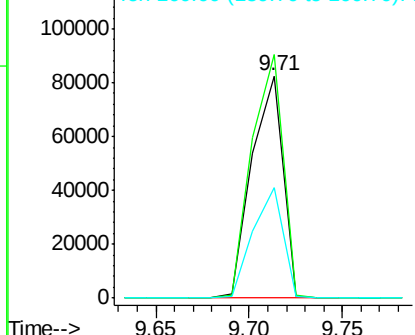


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.71 min Scan# 711
 Delta R.T. 0.00 min
 Lab File: BF089030.D
 Acq: 15 Jul 2016 22:02

Tgt Ion:164 Resp: 95010
 Ion Ratio Lower Upper
 164 100
 162 109.6 85.4 128.2
 160 49.6 39.5 59.3



Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 10.44 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

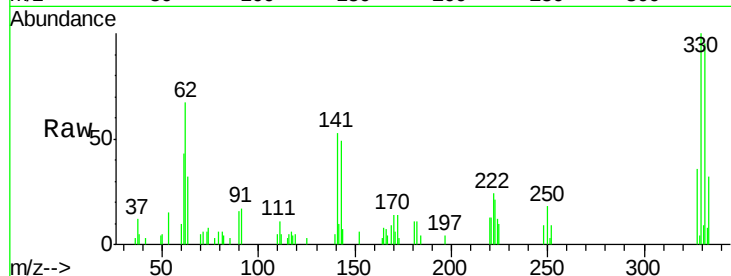
Tot Ion:330 Resp: 9214

Ion Ratio Lower Upper

330 100

332 94.4 0.0 0.0#

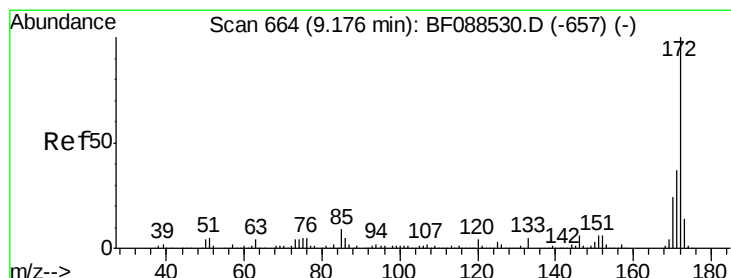
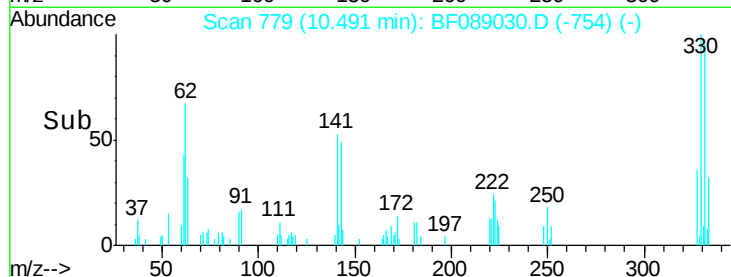
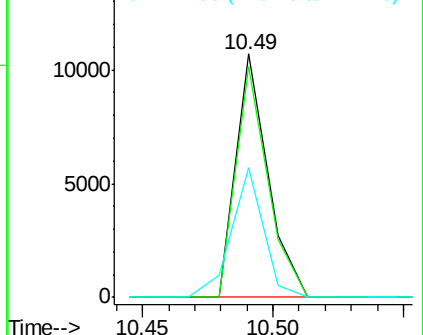
141 53.4 0.0 0.0#



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: 14.45 ng

RT: 9.04 min Scan# 652

Delta R.T. 0.00 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

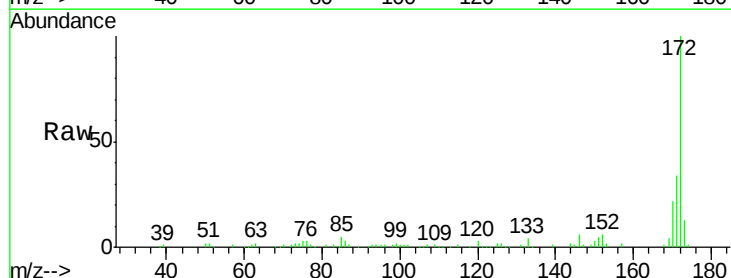
Tgt Ion:172 Resp: 86936

Ion Ratio Lower Upper

172 100

171 34.1 28.6 43.0

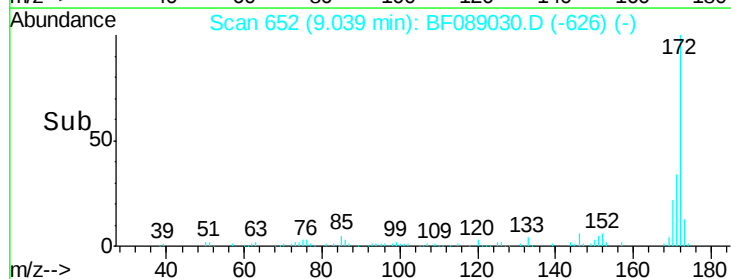
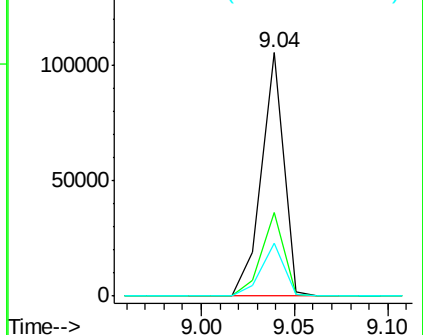
170 22.0 19.2 28.8

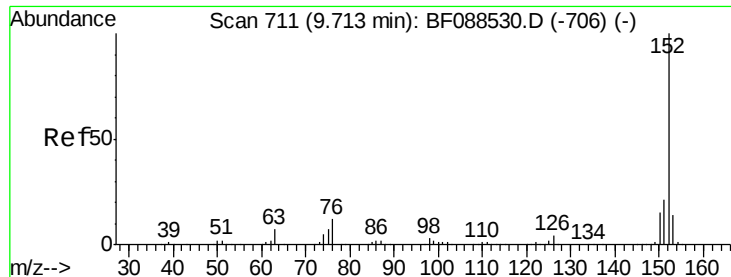


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.05 ng

RT: 9.56 min Scan# 698

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

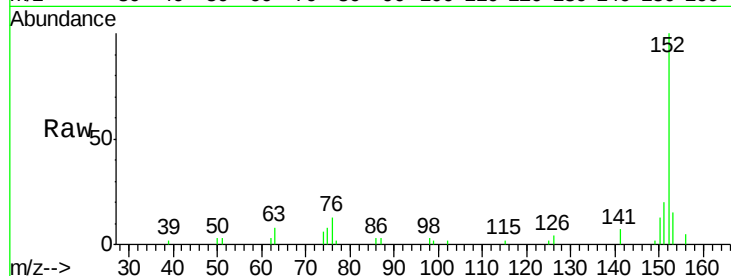
Tot Ion:152 Resp: 20139

Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.4

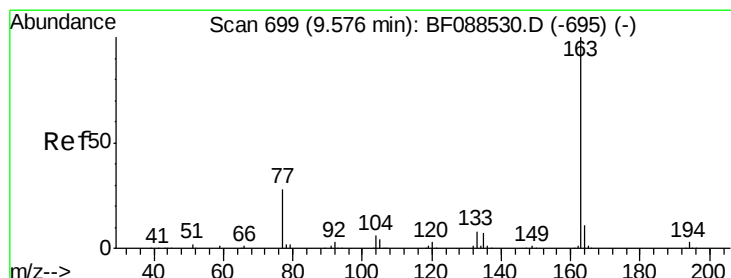
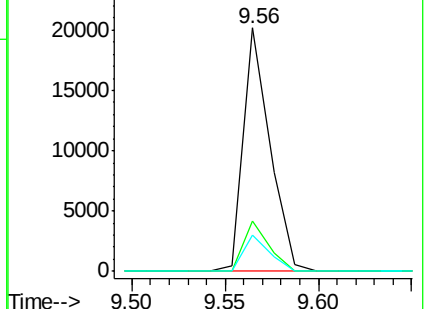
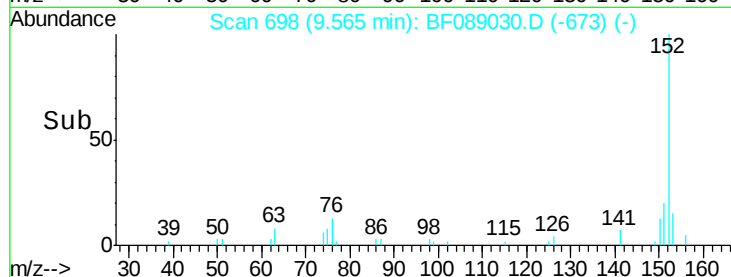
153 14.9 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.90 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

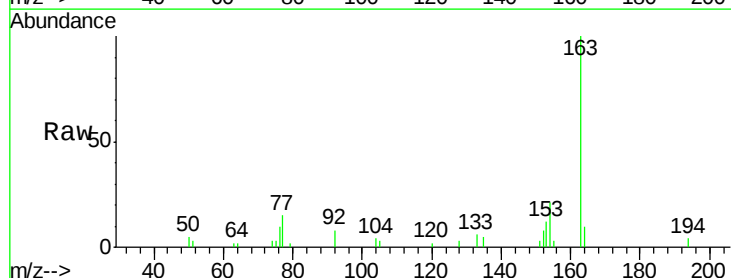
Tgt Ion:163 Resp: 19643

Ion Ratio Lower Upper

163 100

194 4.3 2.8 4.2#

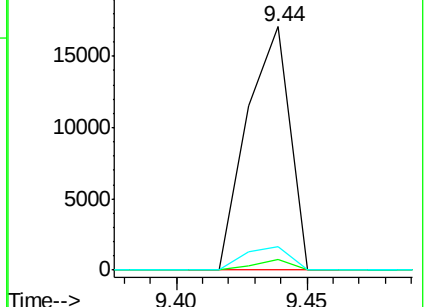
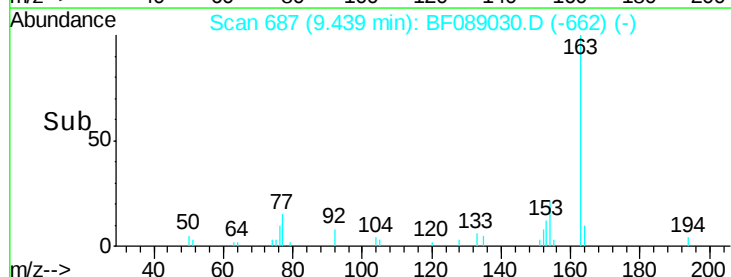
164 9.8 8.3 12.5

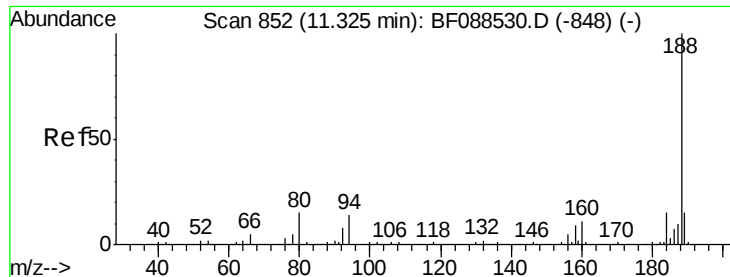


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

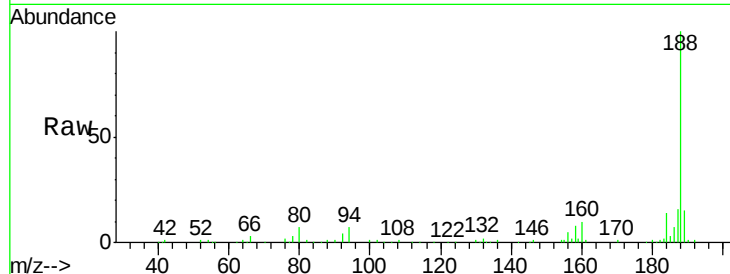




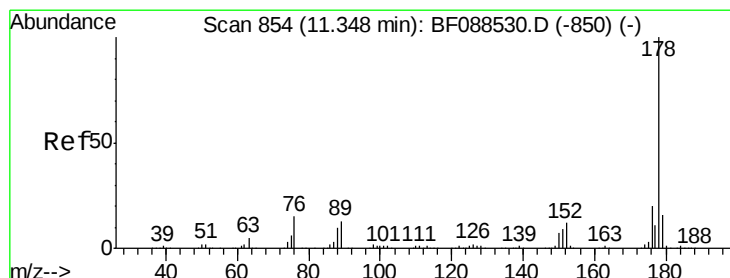
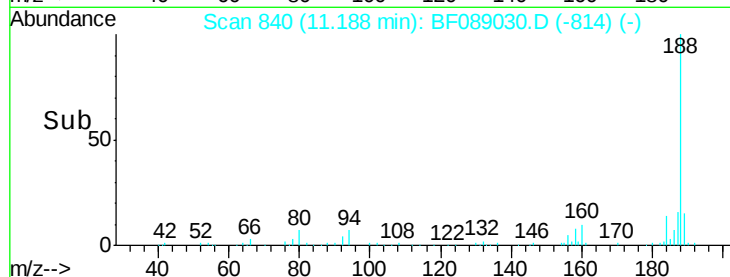
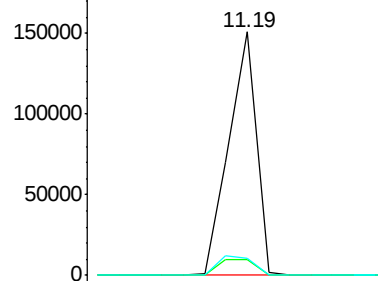
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. 0.00 min
Lab File: BF089030.D
Acq: 15 Jul 2016 22:02

Instrument :
BNA_F
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LSS-SB-SB04(0-2ft)

Tot Ion:188 Resp: 153566
Ion Ratio Lower Upper
188 100
94 6.5 9.0 13.6#
80 7.2 10.0 15.0#

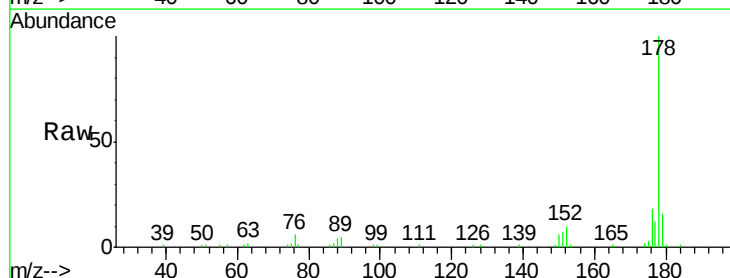


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

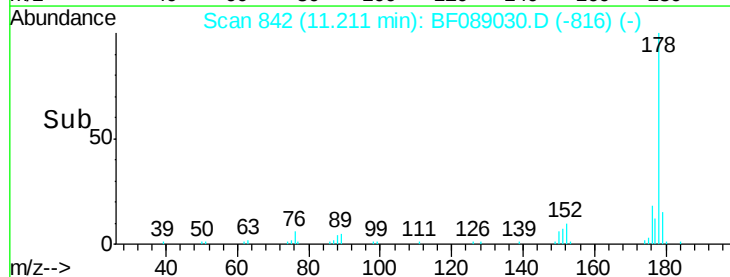
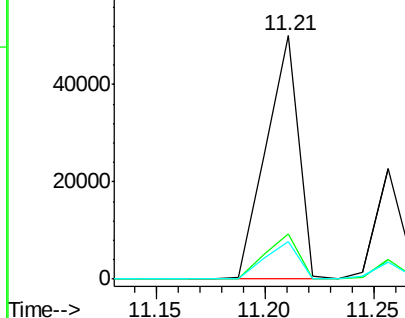


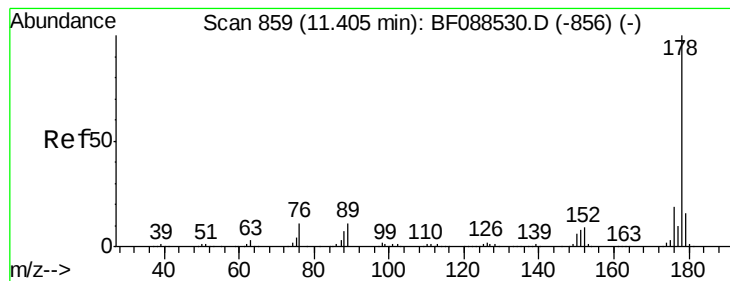
#70
Phenanthrene
Concen: 6.26 ng
RT: 11.21 min Scan# 842
Delta R.T. 0.00 min
Lab File: BF089030.D
Acq: 15 Jul 2016 22:02

Tgt Ion:178 Resp: 52538
Ion Ratio Lower Upper
178 100
176 18.5 15.8 23.6
179 15.5 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: 2.49 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

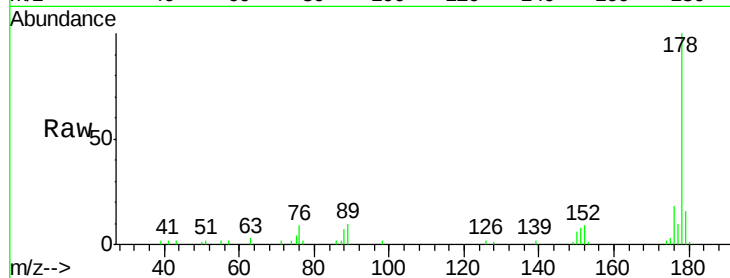
Tot Ion:178 Resp: 20764

Ion Ratio Lower Upper

178 100

176 17.9 15.6 23.4

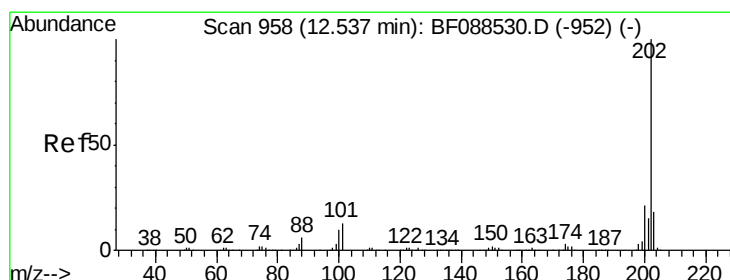
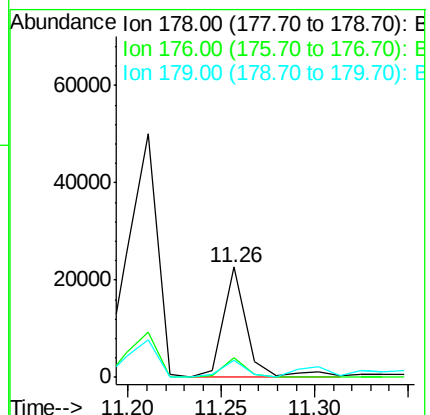
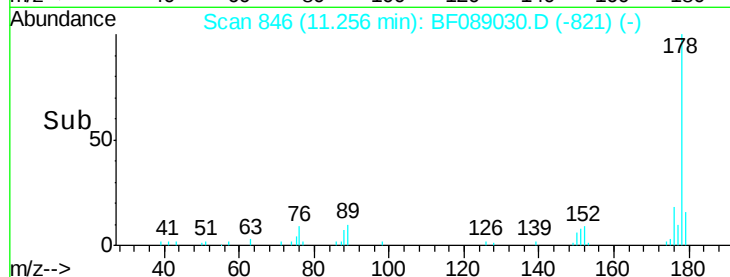
179 15.7 12.8 19.2



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: 8.58 ng

RT: 12.39 min Scan# 945

Delta R.T. 0.00 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

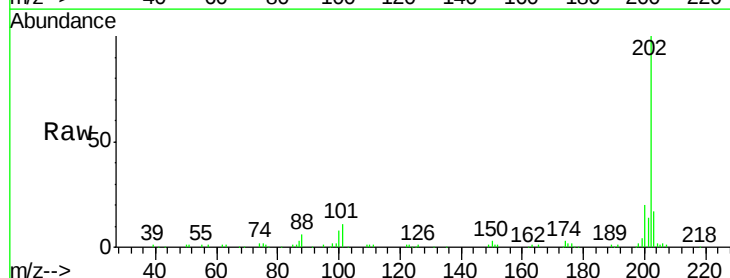
Tgt Ion:202 Resp: 73048

Ion Ratio Lower Upper

202 100

101 11.3 0.0 33.1

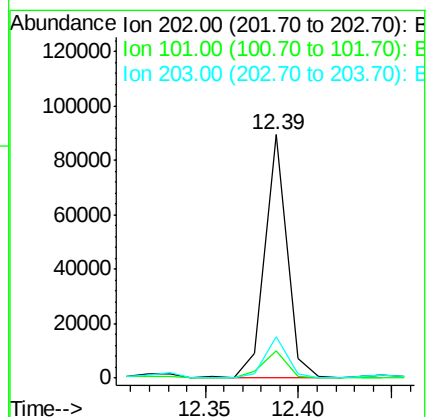
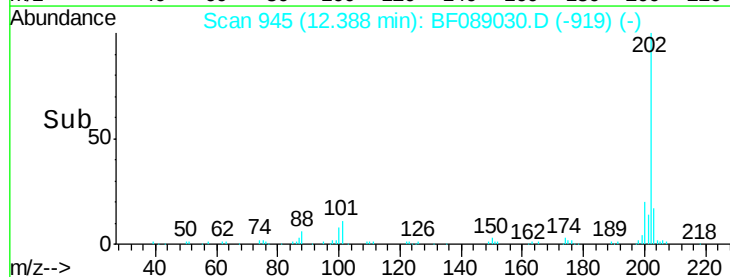
203 17.0 0.0 38.1



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. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

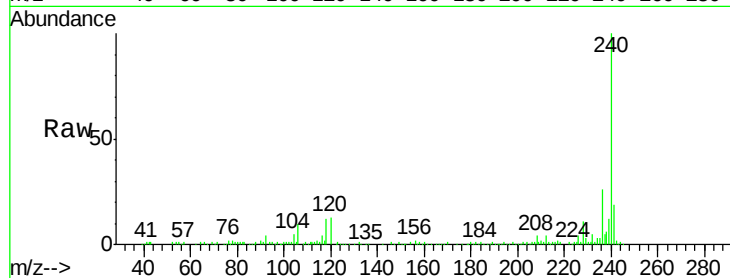
Tot Ion:240 Resp: 106069

Ion Ratio Lower Upper

240 100

120 13.3 6.8 10.2#

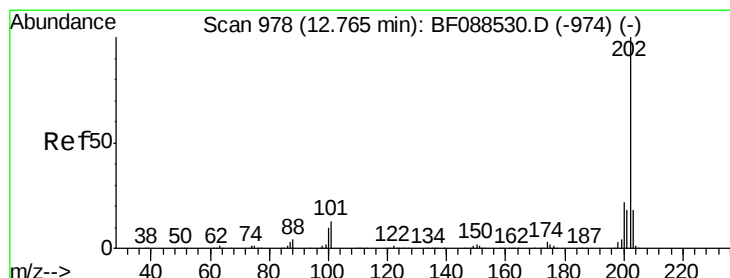
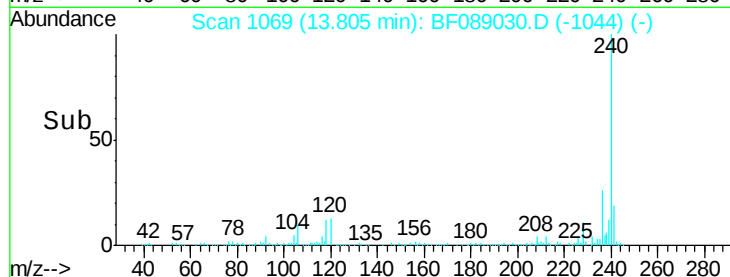
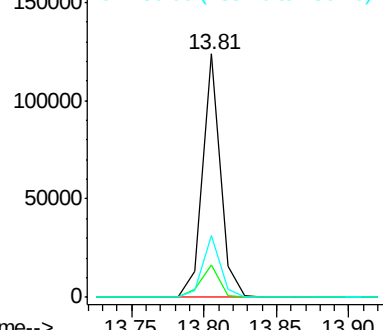
236 25.5 20.2 30.2



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

Pyrene

Concen: 11.20 ng

RT: 12.62 min Scan# 965

Delta R.T. 0.00 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

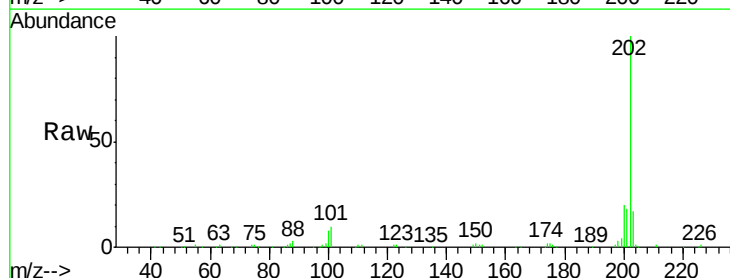
Tgt Ion:202 Resp: 100768

Ion Ratio Lower Upper

202 100

200 20.3 17.4 26.2

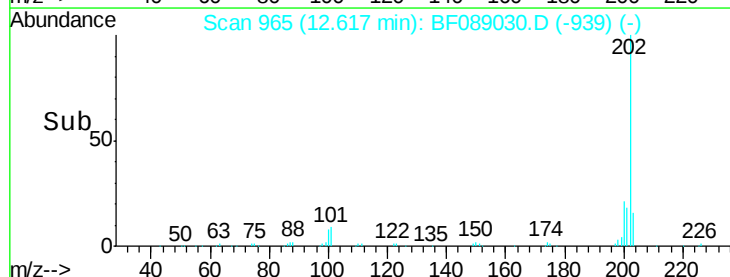
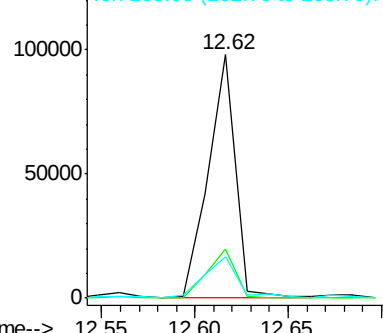
203 17.0 14.5 21.7



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: 9.88 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

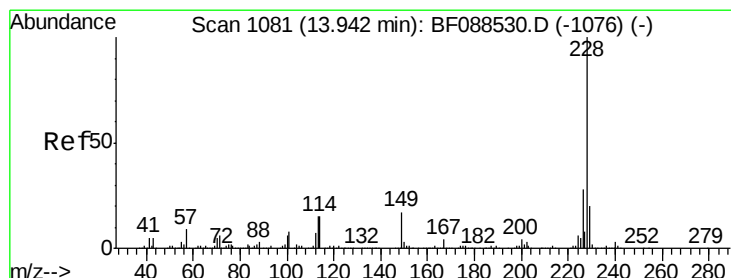
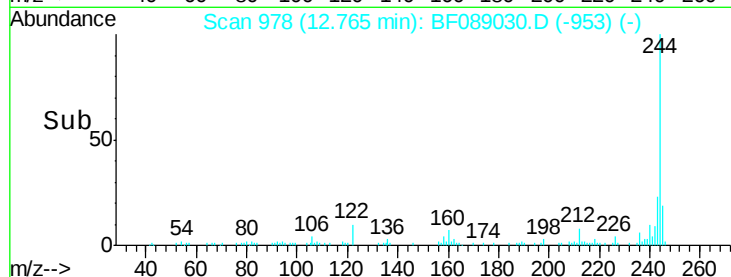
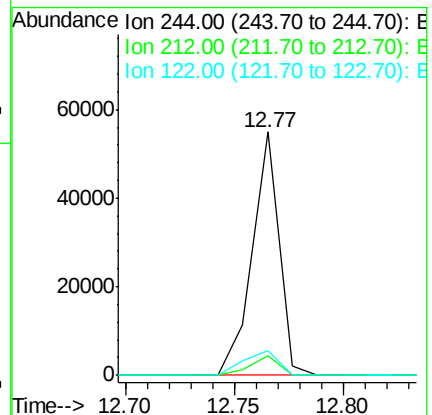
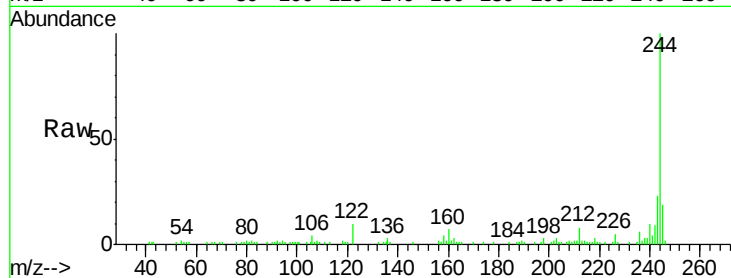
Tot Ion:244 Resp: 47057

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

122 10.2 11.2 16.8#



#80

Benzo(a)anthracene

Concen: 7.04 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

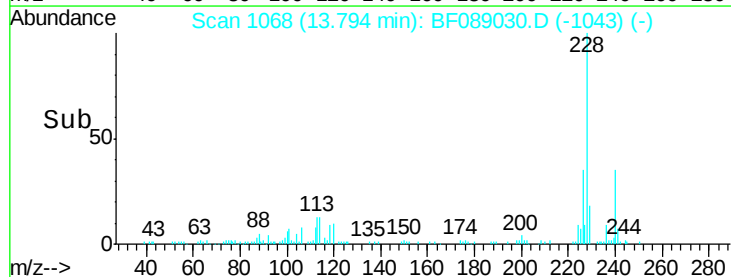
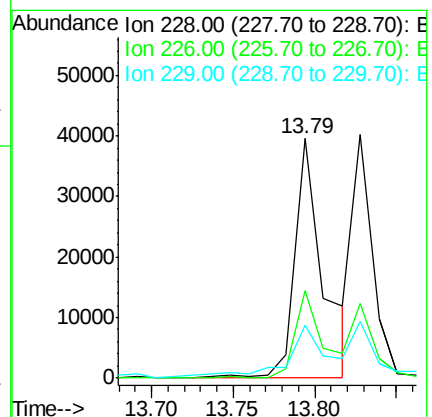
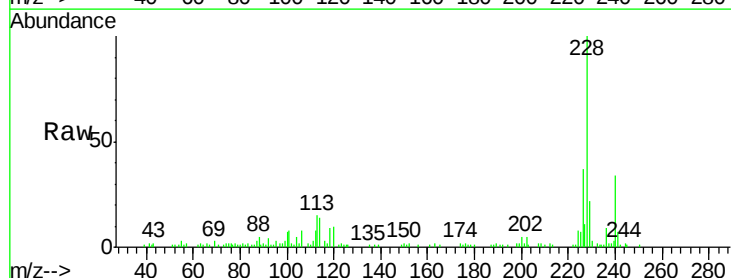
Tgt Ion:228 Resp: 48095

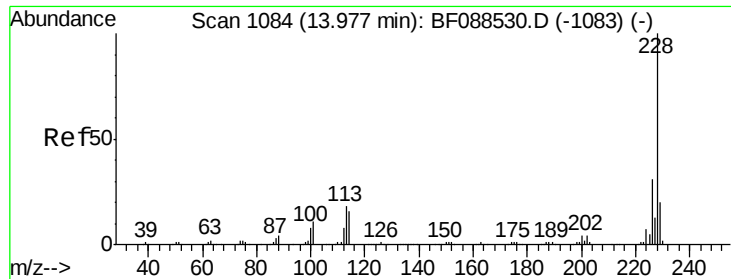
Ion Ratio Lower Upper

228 100

226 36.7 22.3 33.5#

229 22.0 16.0 24.0





#82

Chrysene

Concen: 5.25 ng/mL

RT: 13.83 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

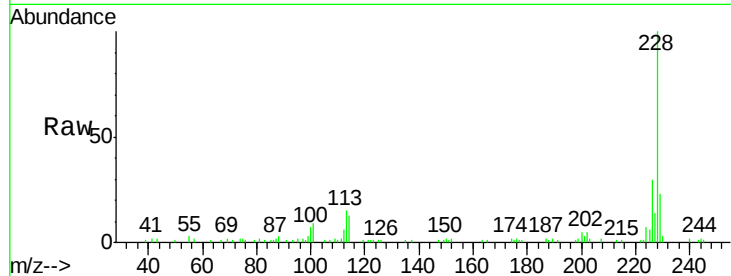
Tot Ion:228 Resp: 35509

Ion Ratio Lower Upper

228 100

226 30.5 25.4 38.2

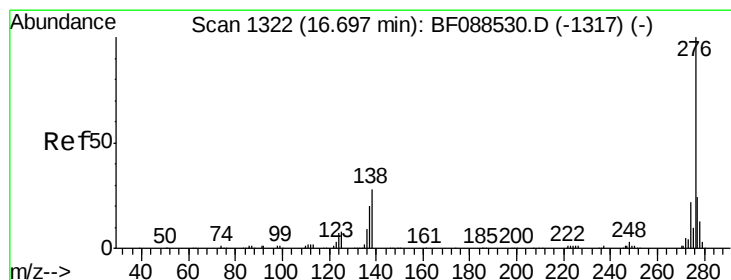
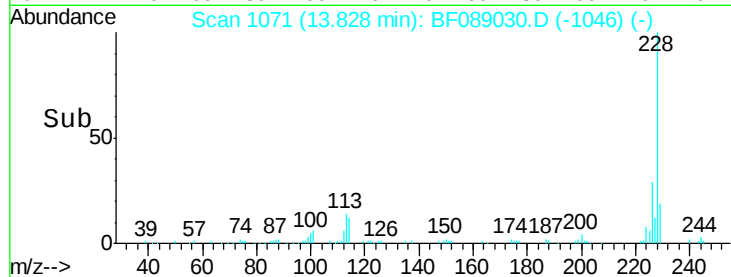
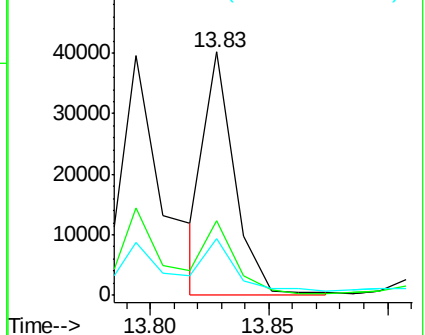
229 23.1 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.47 ng/mL

RT: 16.43 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

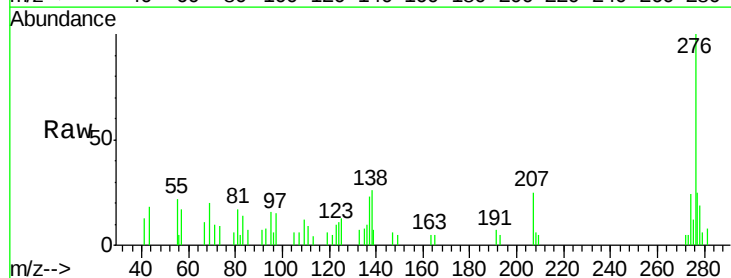
Tgt Ion:276 Resp: 12861

Ion Ratio Lower Upper

276 100

138 29.3 0.0 0.0#

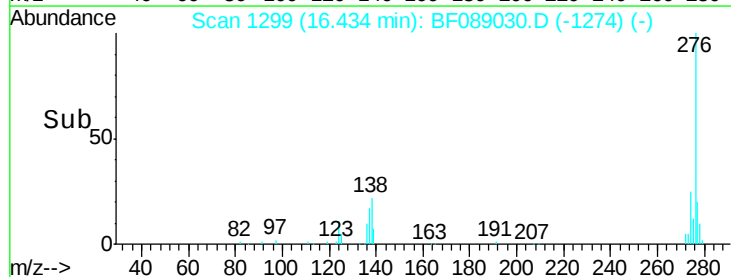
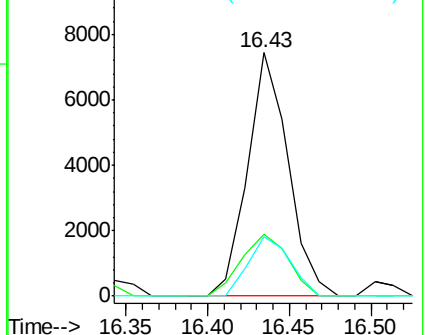
277 25.0 0.0 0.0#

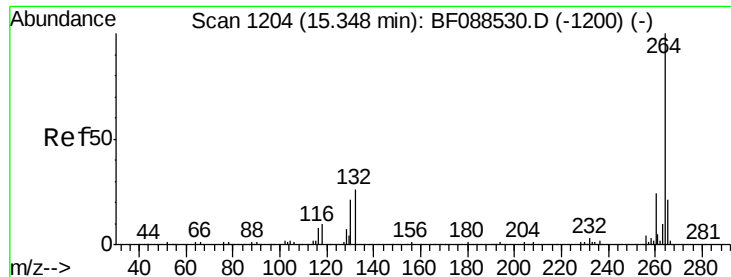


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

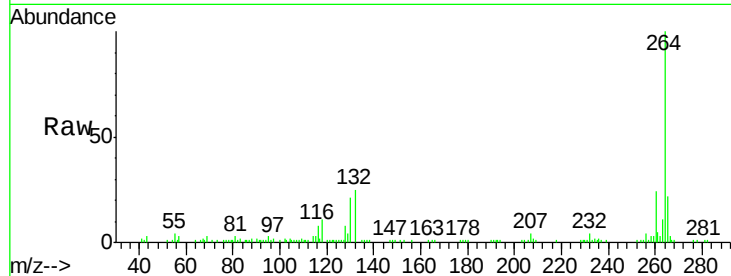




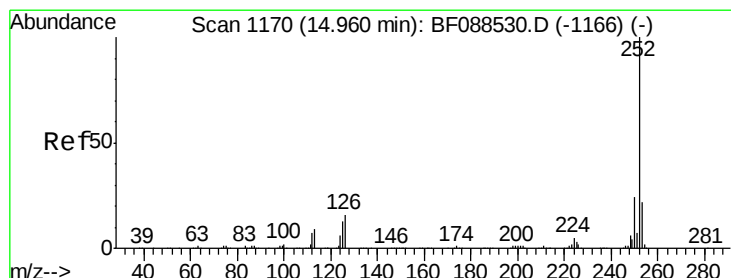
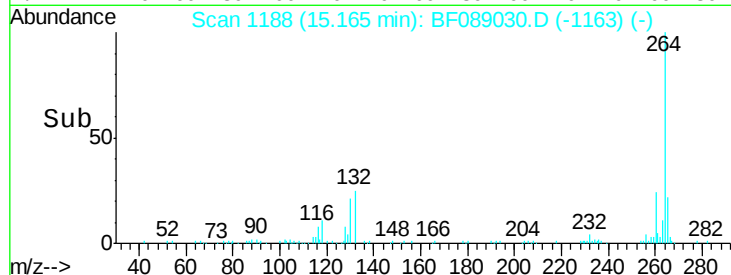
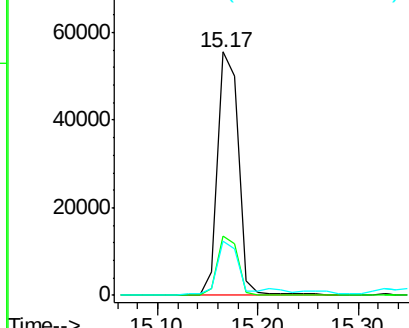
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.17 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BF089030.D
Acq: 15 Jul 2016 22:02

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(0-2ft)

Tot Ion:264 Resp: 80195
Ion Ratio Lower Upper
264 100
260 24.4 19.2 28.8
265 22.2 16.9 25.3

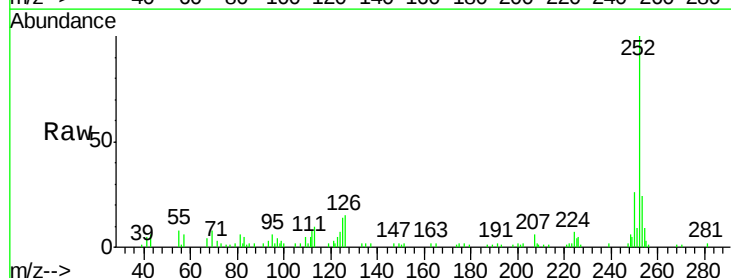


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

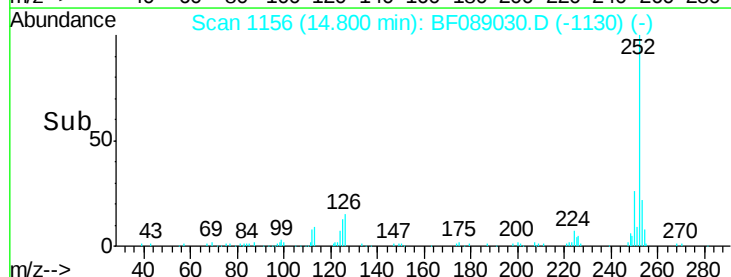
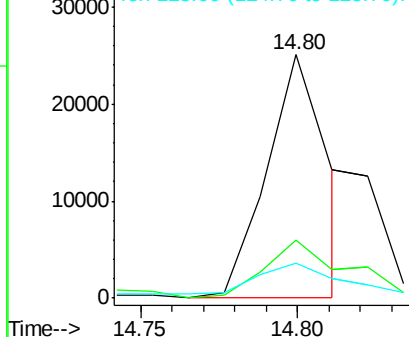


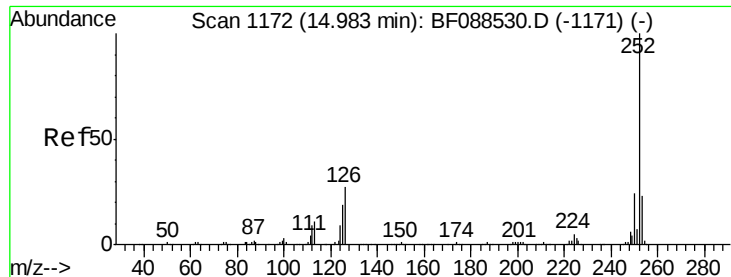
#87
Benzo(b)fluoranthene
Concen: 6.72 ng m
RT: 14.80 min Scan# 1156
Delta R.T. 0.00 min
Lab File: BF089030.D
Acq: 15 Jul 2016 22:02

Tgt Ion:252 Resp: 33801
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.2
125 14.1 7.1 10.7#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 2.36 ng m

RT: 14.81 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB04(0-2ft)

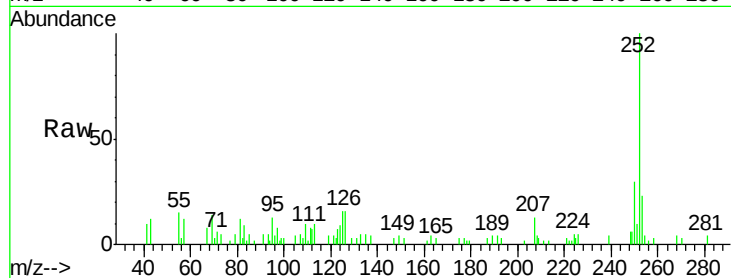
Tot Ion:252 Resp: 10318

Ion Ratio Lower Upper

252 100

253 22.6 18.0 27.0

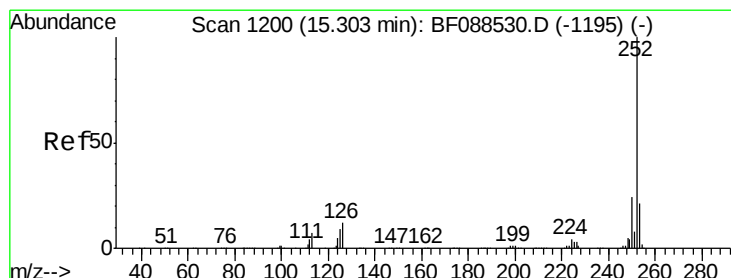
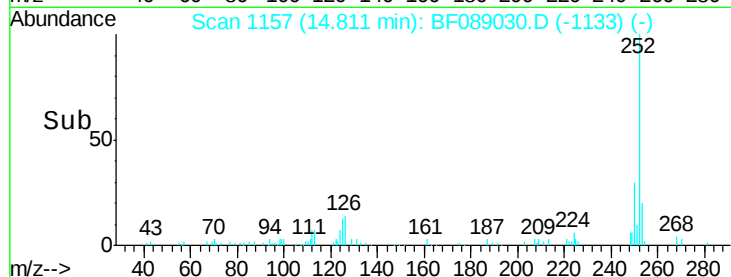
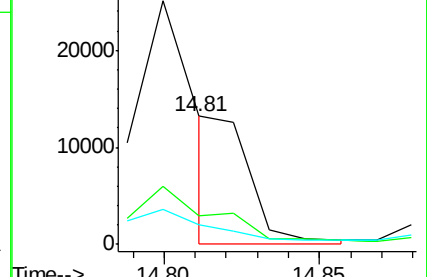
125 15.7 11.2 16.8



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: 6.55 ng m

RT: 15.12 min Scan# 1184

Delta R.T. 0.00 min

Lab File: BF089030.D

Acq: 15 Jul 2016 22:02

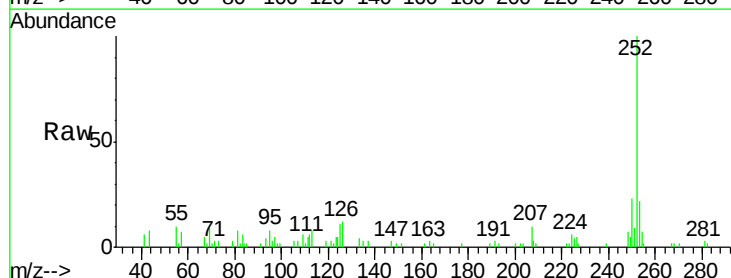
Tgt Ion:252 Resp: 27913

Ion Ratio Lower Upper

252 100

253 22.1 17.9 26.9

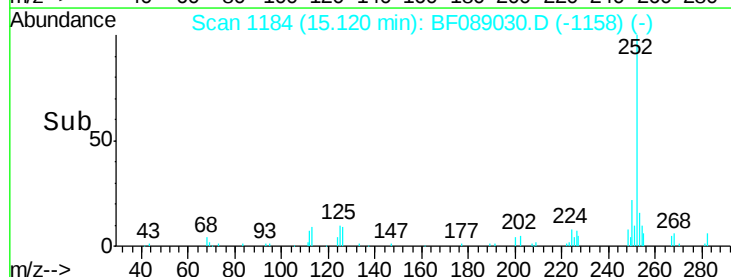
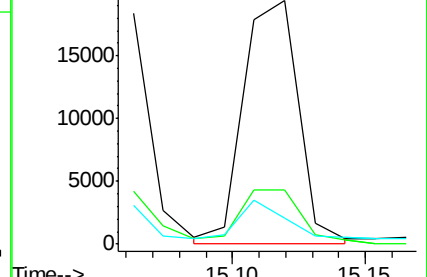
125 10.7 12.5 18.7#

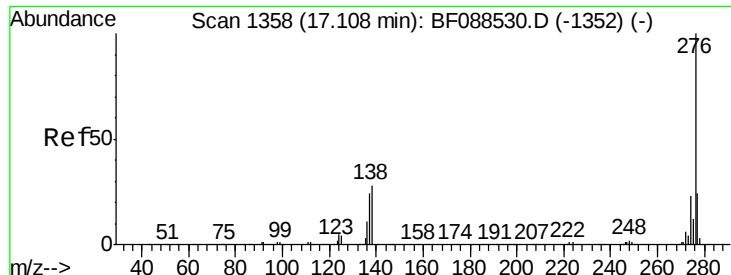


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

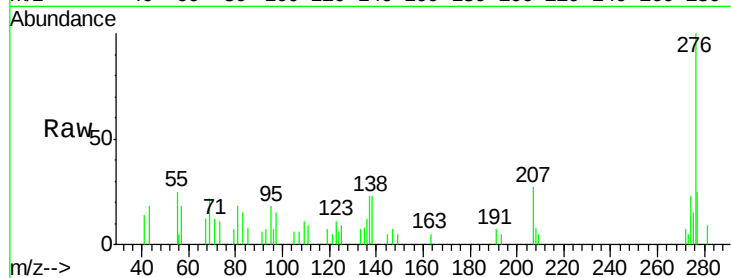




#91
 Benzo(a,h,i)perylene
 Concen: 3.81 ng
 RT: 16.82 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: BF089030.D
 Acq: 15 Jul 2016 22:02

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB04(0-2ft)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.9	28.3
138	22.8	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

