

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089045.D
 Acq On : 16 Jul 2016 7:02
 Operator : UM/SJ
 Sample : H3972-06DL 8X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)DL

Quant Time: Jul 18 01:08:51 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

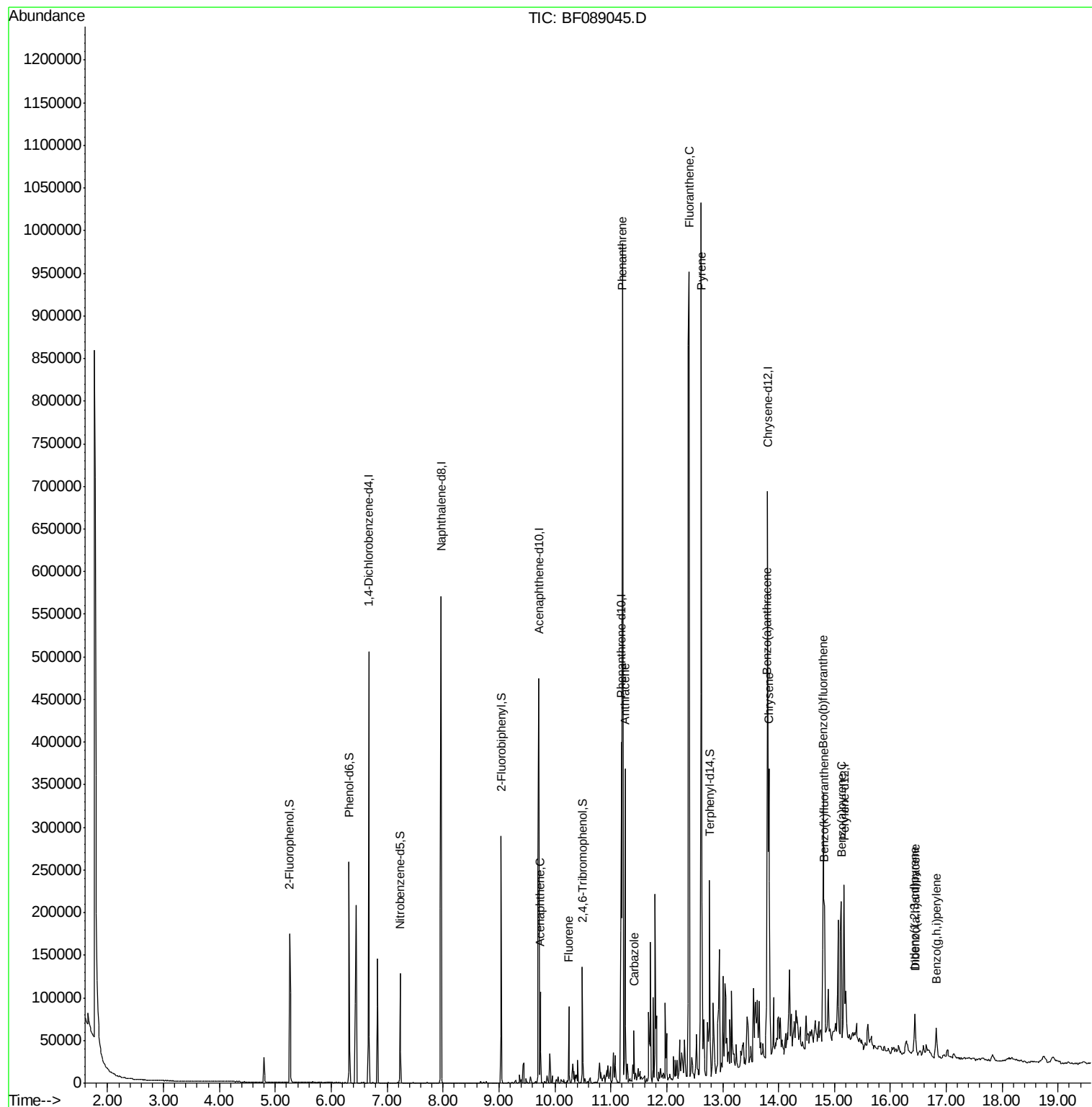
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	67448	20.00	ng	-0.03
21) Naphthalene-d8	7.96	136	272985	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	106974	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	159976	20.00	ng	-0.03
75) Chrysene-d12	13.81	240	113976	20.00	ng	-0.05
86) Perylene-d12	15.18	264	88627	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	57638	12.81	ng	-0.03
7) Phenol-d6	6.32	99	78138	13.44	ng	-0.03
23) Nitrobenzene-d5	7.23	82	43210	8.29	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	8447	8.50	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	86311	12.74	ng	-0.03
78) Terphenyl-d14	12.77	244	49256	9.63	ng	-0.03
Target Compounds						Qvalue
51) Acenaphthene	9.74	154	24838	3.66	ng	96
57) Fluorene	10.25	166	22526	3.29	ng	100
70) Phenanthrene	11.21	178	330849	37.83	ng	99
71) Anthracene	11.26	178	132954	15.29	ng	98
72) Carbazole	11.42	167	20797	2.54	ng	100
74) Fluoranthene	12.40	202	565059	63.74	ng	92
77) Pyrene	12.62	202	415705	43.02	ng	99
80) Benzo(a)anthracene	13.79	228	189815	25.86	ng	99
82) Chrysene	13.83	228	137401m	18.92	ng	
85) Indeno(1,2,3-cd)pyrene	16.43	276	32551	5.83	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	130672m	23.50	ng	
88) Benzo(k)fluoranthene	14.82	252	47699m	9.86	ng	
89) Benzo(a)pyrene	15.12	252	79742m	16.94	ng	
90) Dibenzo(a,h)anthracene	16.45	278	8024m	2.04	ng	
91) Benzo(a,h,i)perylene	16.82	276	27716	6.81	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. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

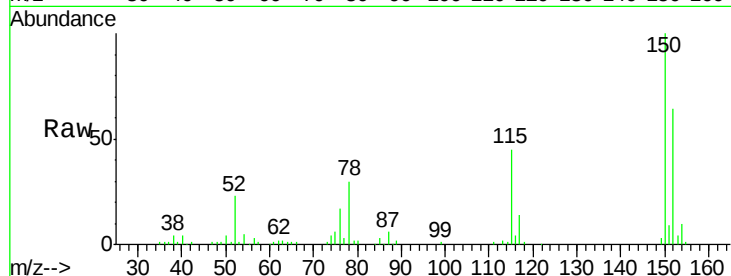
Tot Ion:152 Resp: 67448

Ion Ratio Lower Upper

152 100

150 155.8 123.8 185.6

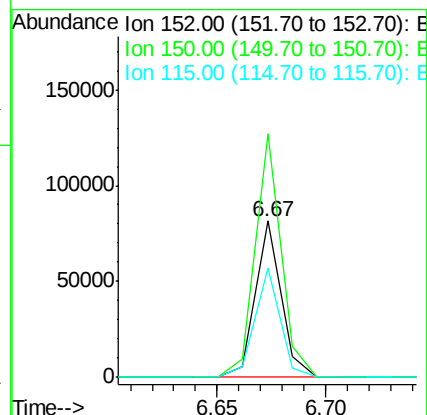
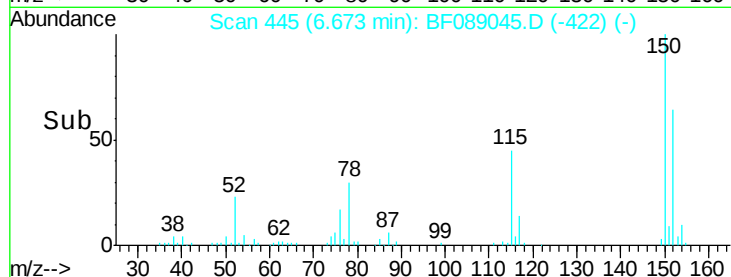
115 69.6 39.6 59.4#



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: 12.81 ng

RT: 5.26 min Scan# 321

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

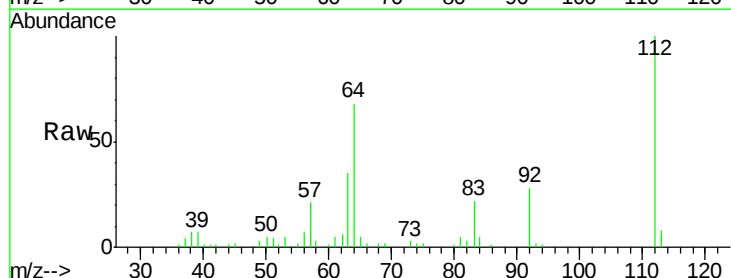
Tgt Ion:112 Resp: 57638

Ion Ratio Lower Upper

112 100

64 67.6 42.2 63.2#

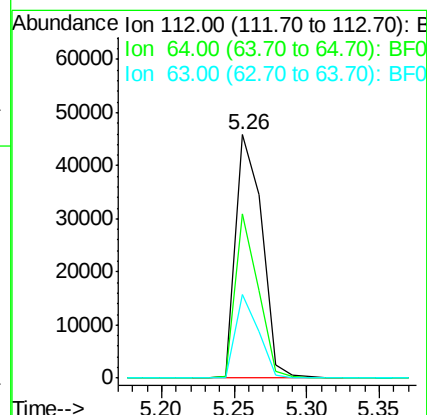
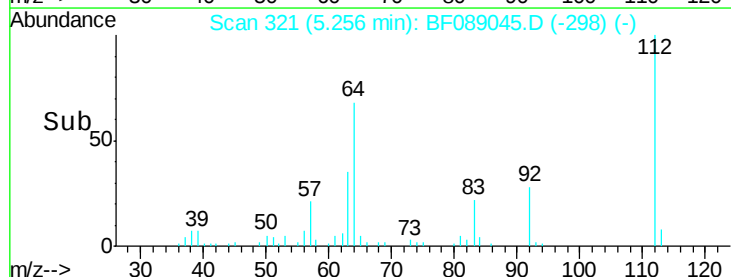
63 34.6 21.8 32.8#



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: 13.44 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

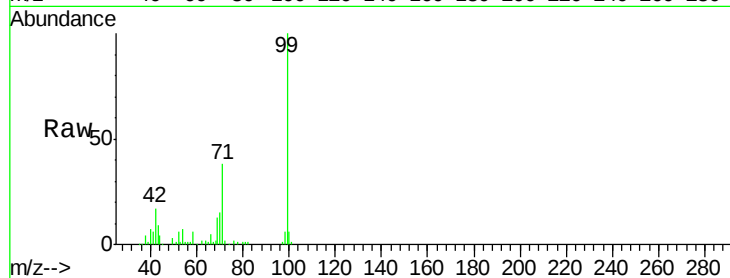
Tot Ion: 99 Resp: 78138

Ion Ratio Lower Upper

99 100

42 17.3 12.2 18.2

71 37.5 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

6.32

120000

100000

80000

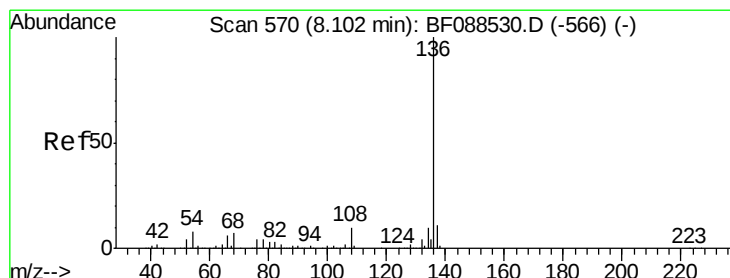
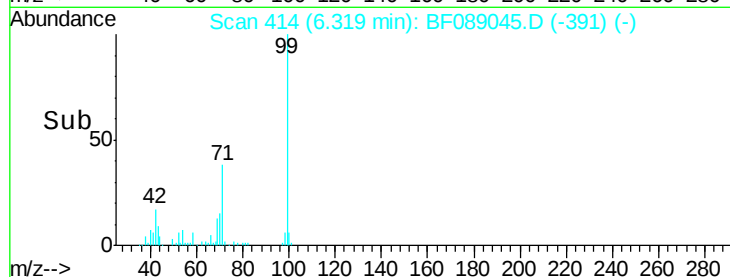
60000

40000

20000

0

Time--> 6.25 6.30 6.35 6.40



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Tgt Ion: 136 Resp: 272985

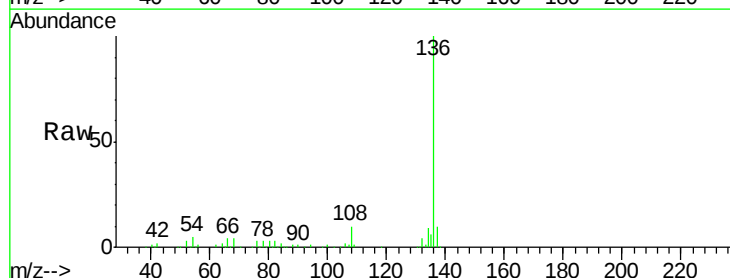
Ion Ratio Lower Upper

136 100

137 10.5 9.1 13.7

54 5.4 6.6 10.0#

68 4.4 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

7.96

400000

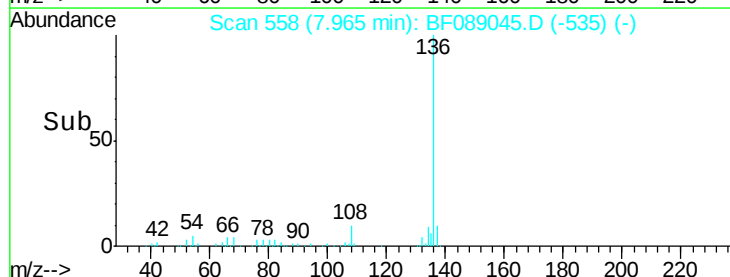
300000

200000

100000

0

Time--> 7.90 7.95 8.00

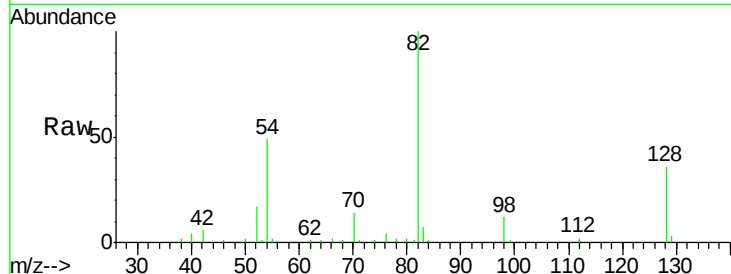




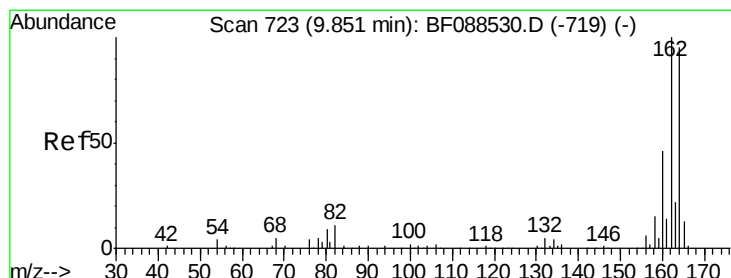
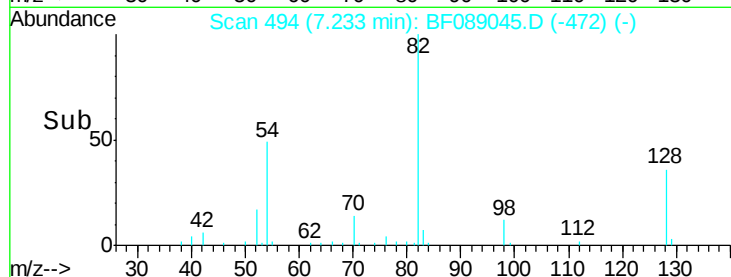
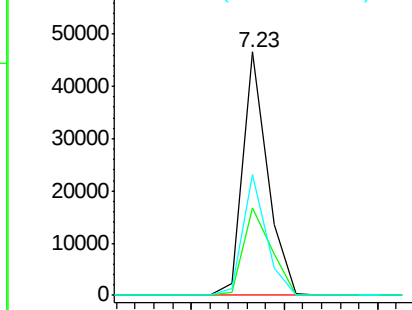
#23
 Nitrobenzene-d5
 Concen: 8.29 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.05 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)DL

Tot Ion	82	Resp	43210
Ion Ratio	Lower	Upper	
82	100		
128	35.8	35.9	53.9#
54	49.4	40.9	61.3

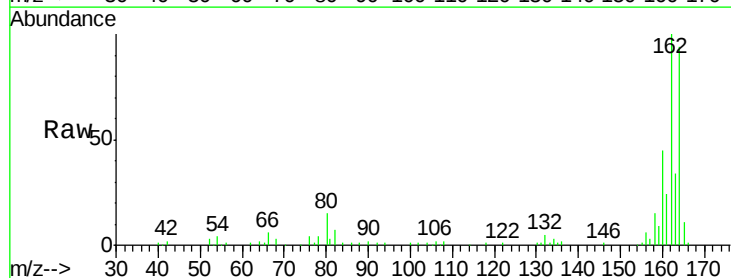


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

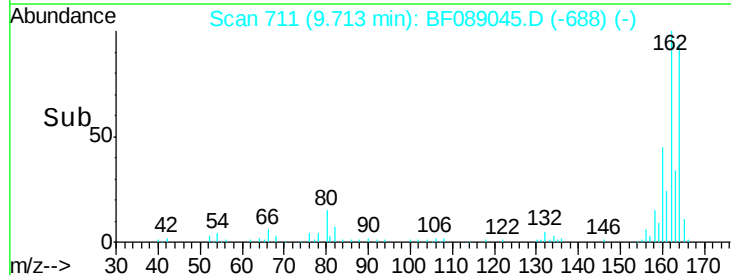
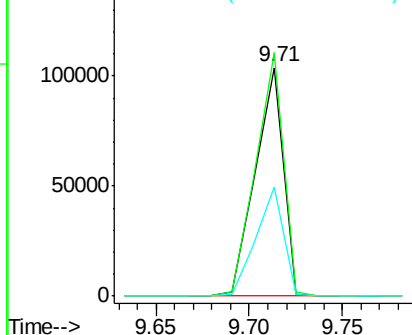


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.71 min Scan# 711
 Delta R.T. -0.03 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Tgt Ion	164	Resp	106974
Ion Ratio	Lower	Upper	
164	100		
162	106.4	85.4	128.2
160	47.9	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

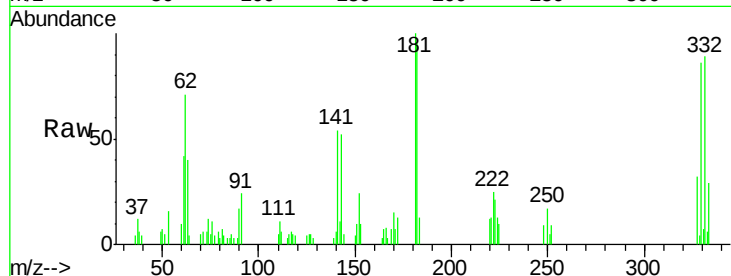




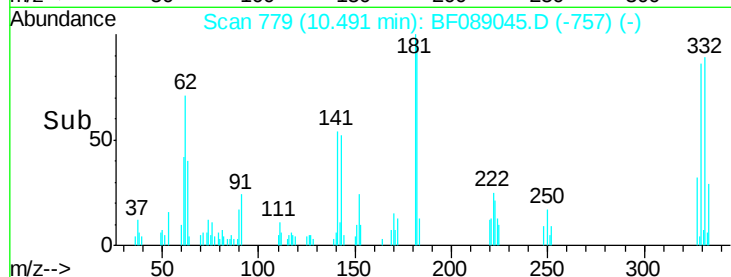
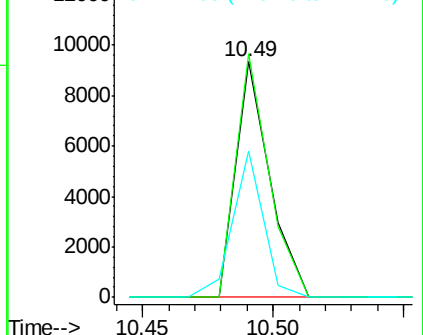
#41
 2,4,6-Tribromophenol
 Concen: 8.50 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.1	0.0	0.0#
141	56.8	0.0	0.0#

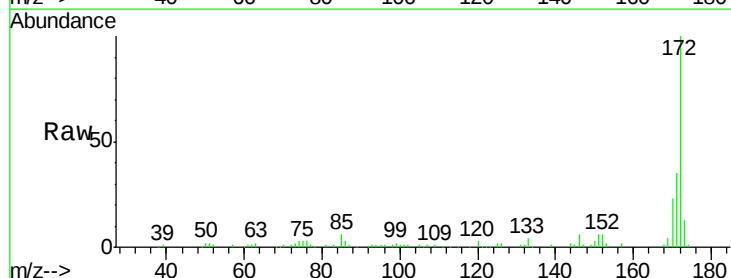


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

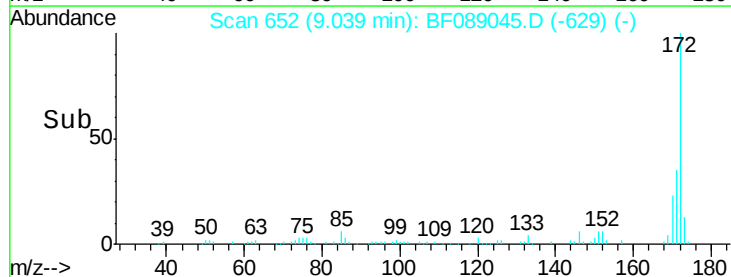
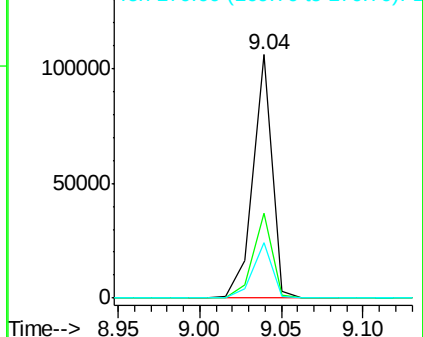


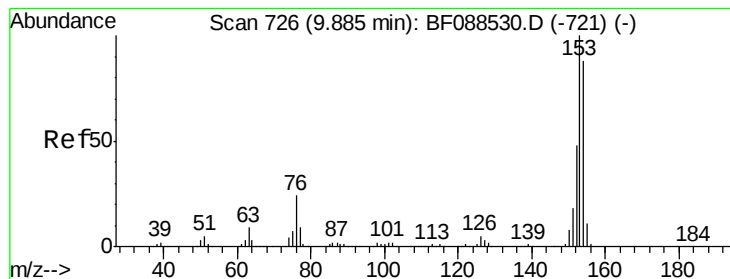
#44
 2-Fluorobiphenyl
 Concen: 12.74 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	22.9	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





#51

Acenaphthene

Concen: 3.66 ng

RT: 9.74 min Scan# 713

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

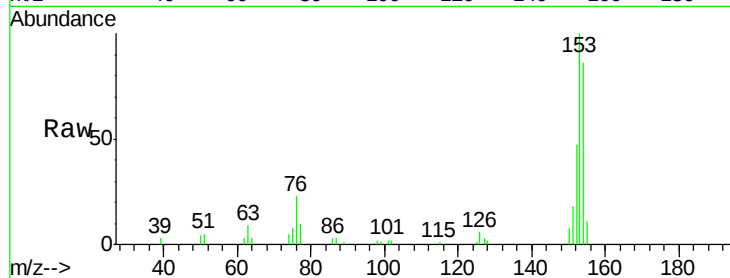
Tot Ion:154 Resp: 24838

Ion Ratio Lower Upper

154 100

153 116.9 89.5 134.3

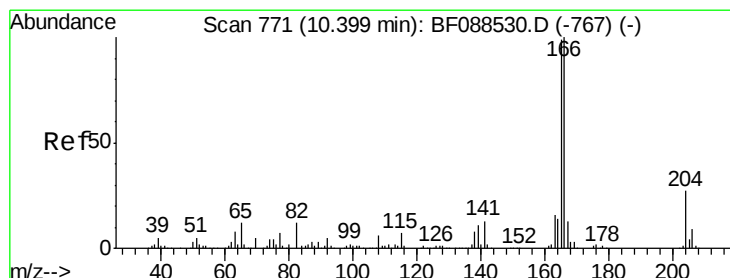
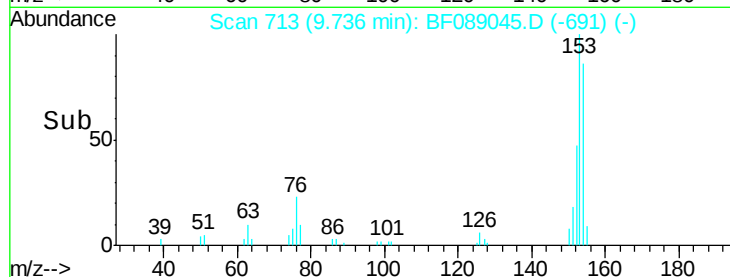
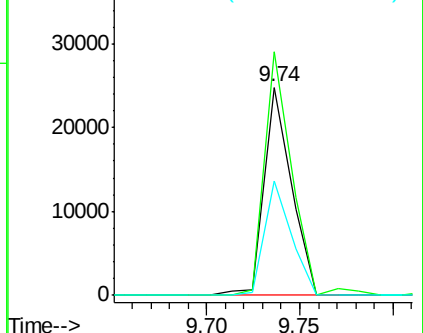
152 54.7 42.7 64.1



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



#57

Fluorene

Concen: 3.29 ng

RT: 10.25 min Scan# 758

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

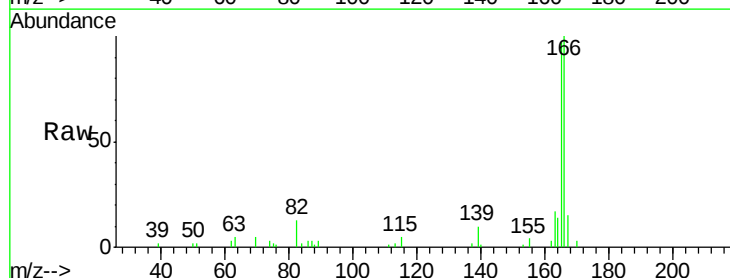
Tgt Ion:166 Resp: 22526

Ion Ratio Lower Upper

166 100

165 97.4 77.8 116.8

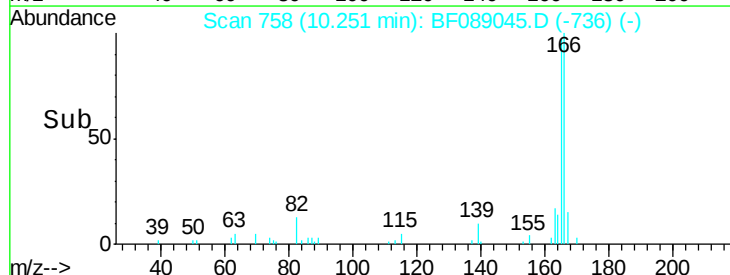
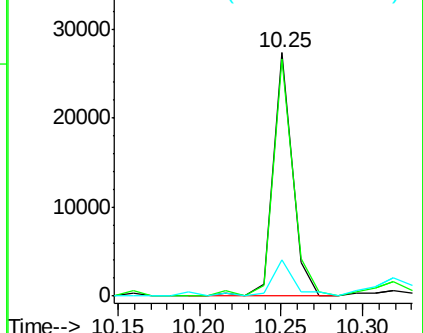
167 15.0 11.2 16.8

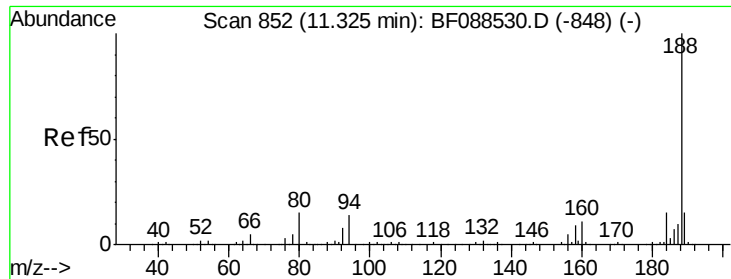


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

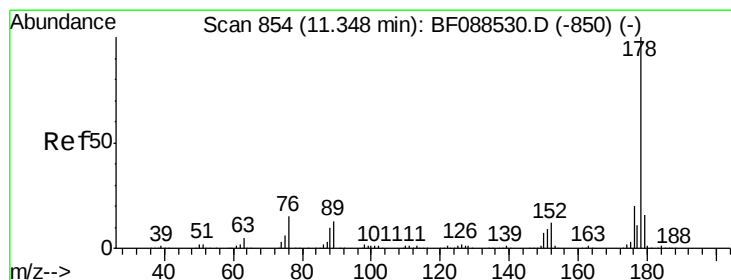
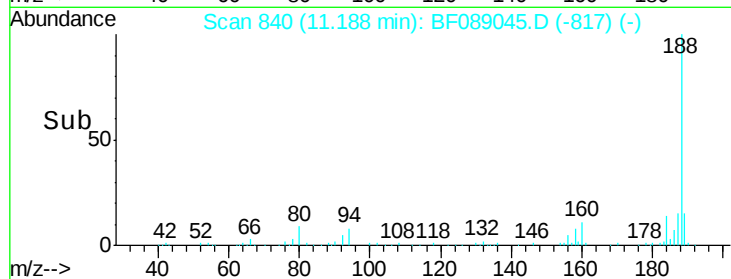
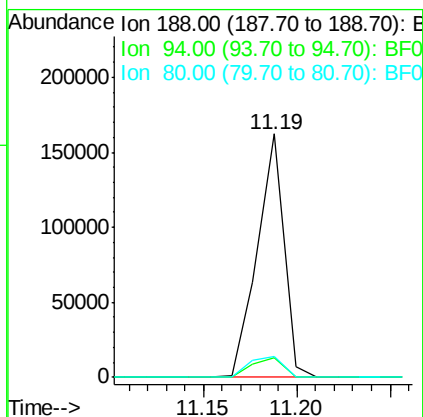
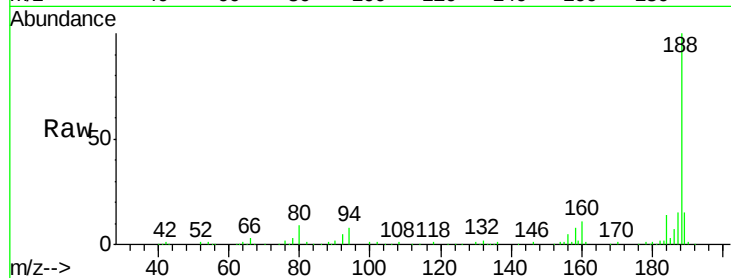




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

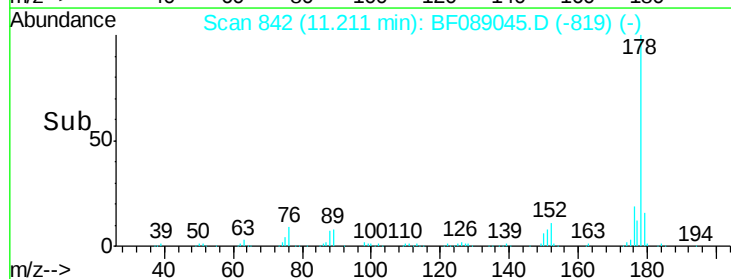
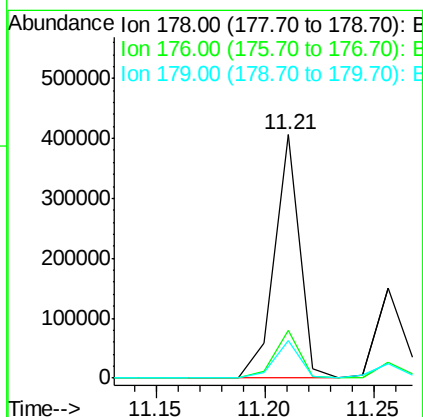
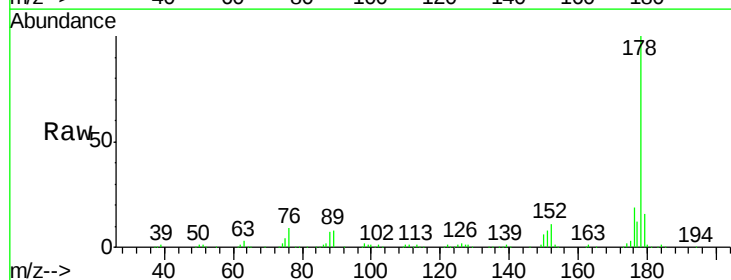
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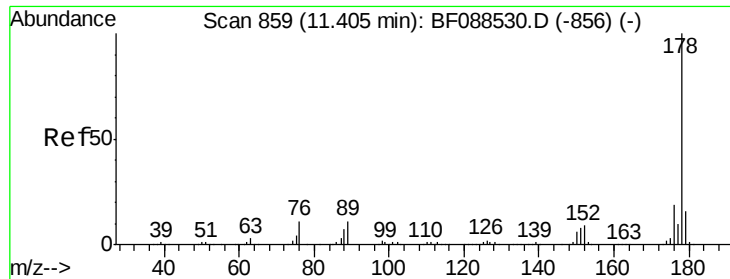
Tot Ion:188 Resp: 159976
Ion Ratio Lower Upper
188 100
94 7.9 9.0 13.6#
80 8.8 10.0 15.0#



#70
Phenanthrene
Concen: 37.83 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Tgt Ion:178 Resp: 330849
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.6
179 15.6 13.0 19.4

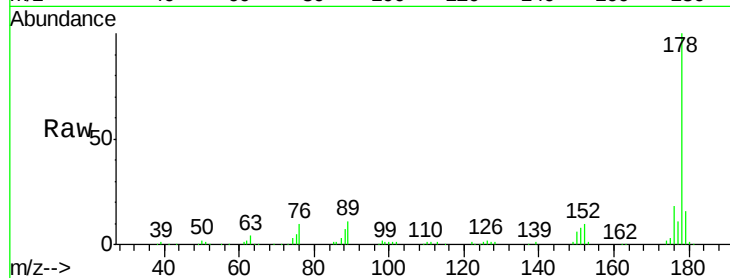




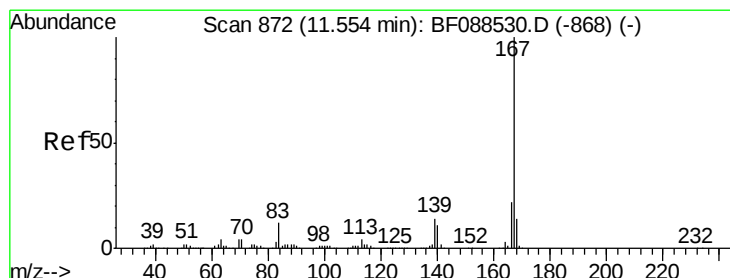
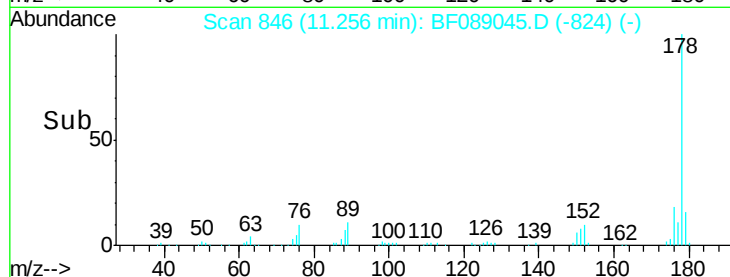
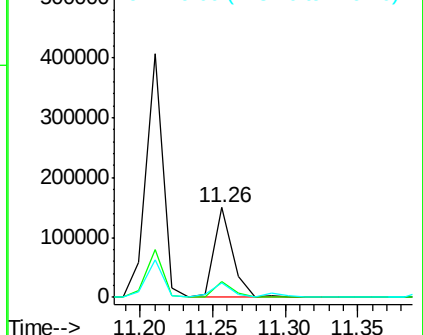
#71
 Anthracene
 Concen: 15.29 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.05 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SB-SB09(0-2ft)DL

Tot Ion:178 Resp: 132954
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.6 23.4
 179 15.7 12.8 19.2

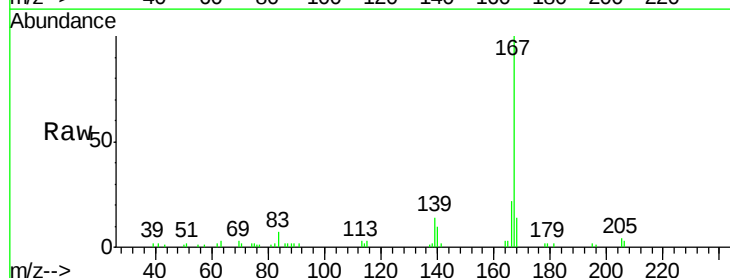


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

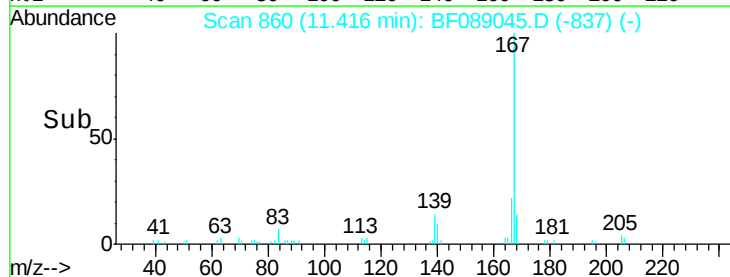
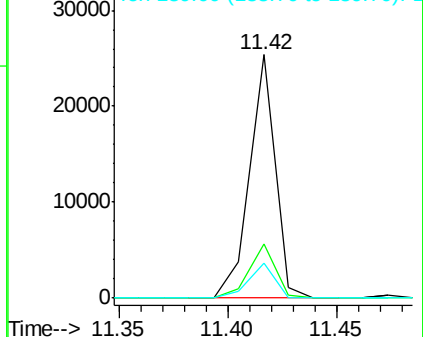


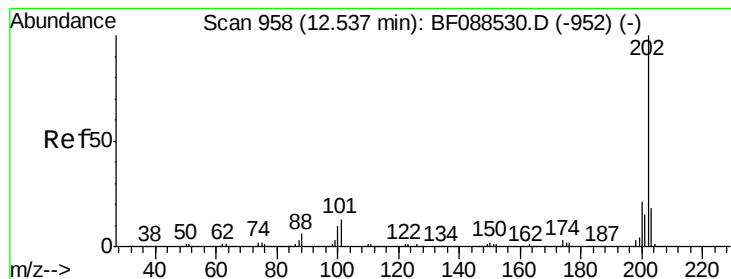
#72
 Carbazole
 Concen: 2.54 ng
 RT: 11.42 min Scan# 860
 Delta R.T. -0.03 min
 Lab File: BF089045.D
 Acq: 16 Jul 2016 7:02

Tgt Ion:167 Resp: 20797
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.8 26.6
 139 14.1 11.2 16.8



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 63.74 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

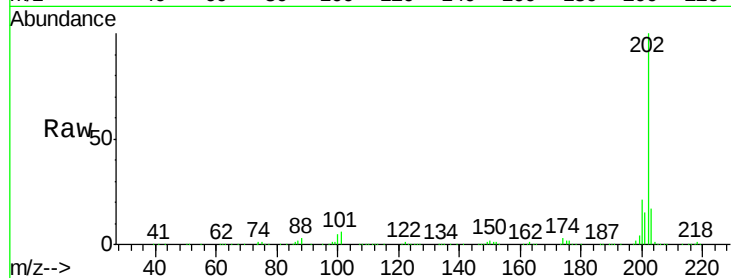
Tot Ion:202 Resp: 565059

Ion Ratio Lower Upper

202 100

101 6.5 0.0 33.1

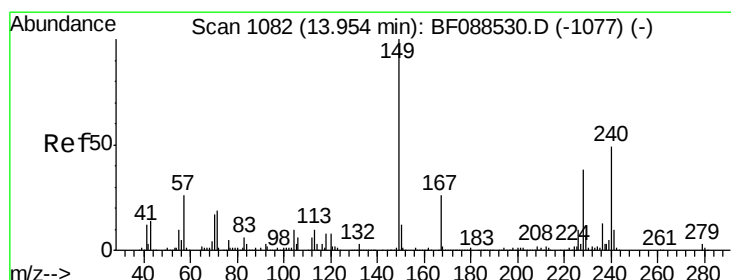
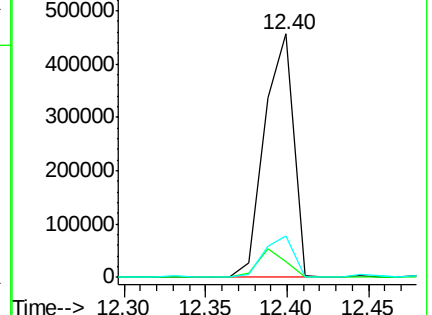
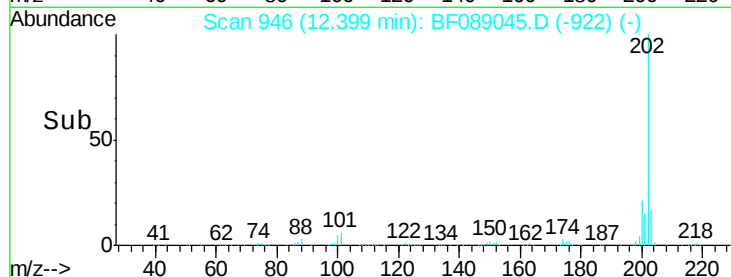
203 17.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

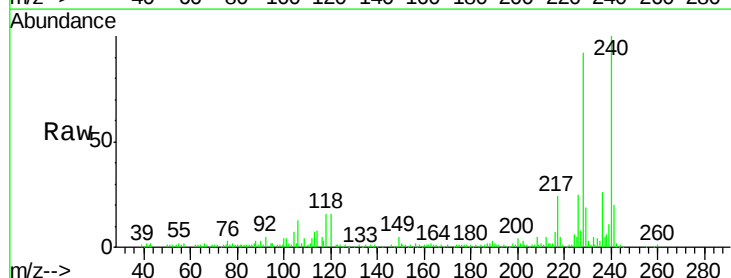
Tgt Ion:240 Resp: 113976

Ion Ratio Lower Upper

240 100

120 16.2 6.8 10.2#

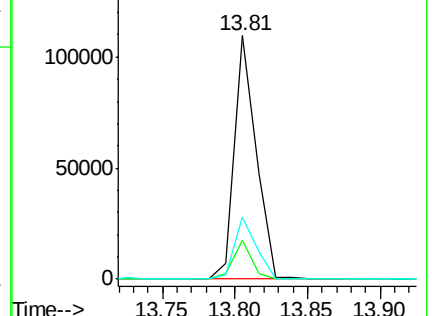
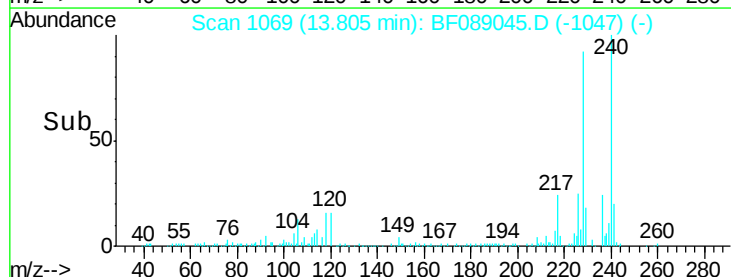
236 25.5 20.2 30.2

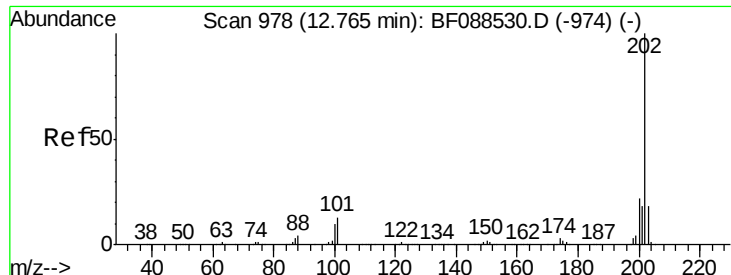


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 43.02 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

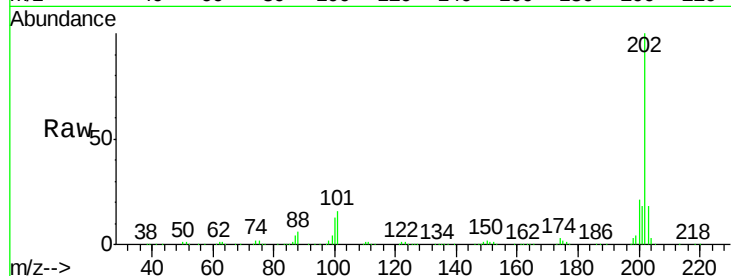
Tot Ion:202 Resp: 415705

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

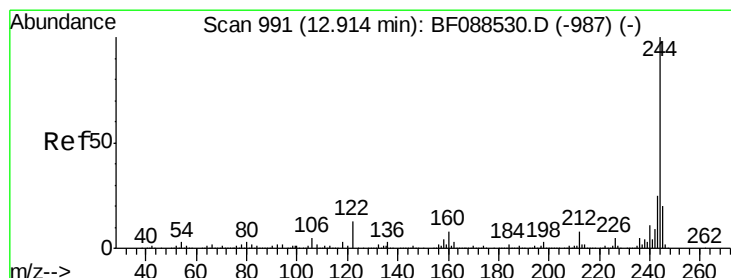
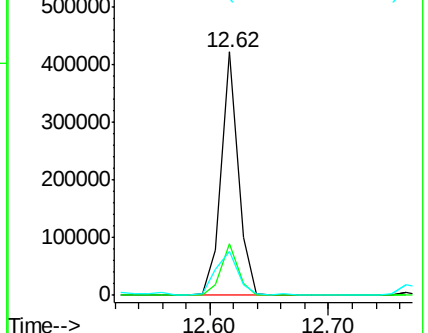
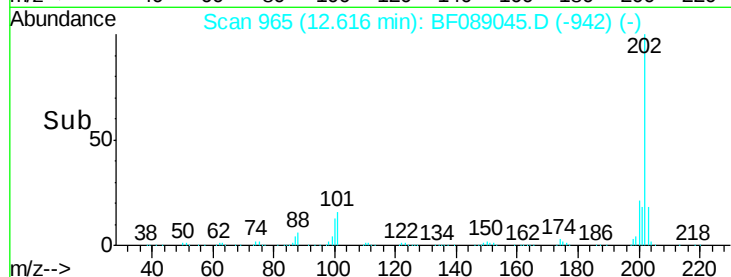
203 18.3 14.5 21.7



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: 9.63 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

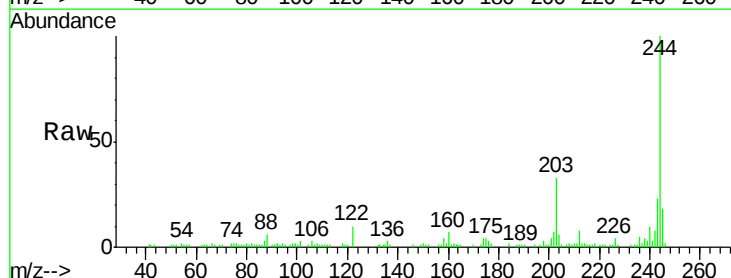
Tgt Ion:244 Resp: 49256

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

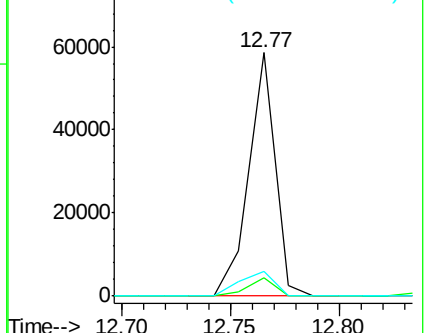
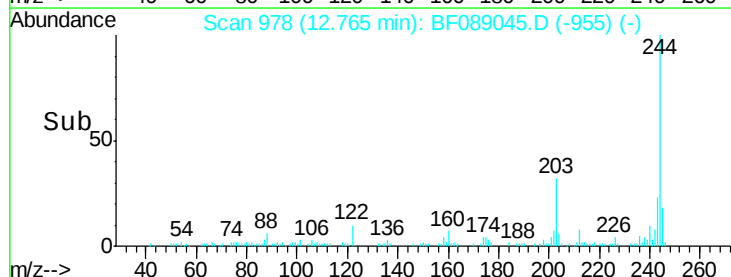
122 10.2 11.2 16.8#

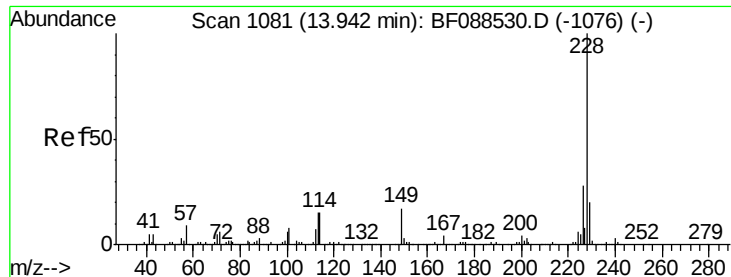


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 25.86 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

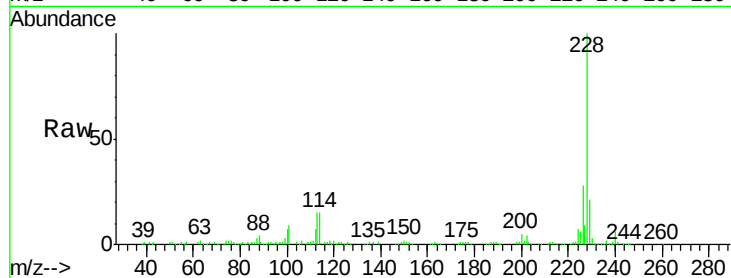
Tot Ion:228 Resp: 189815

Ion Ratio Lower Upper

228 100

226 28.3 22.3 33.5

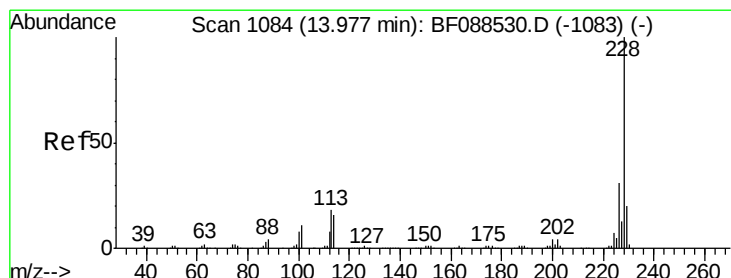
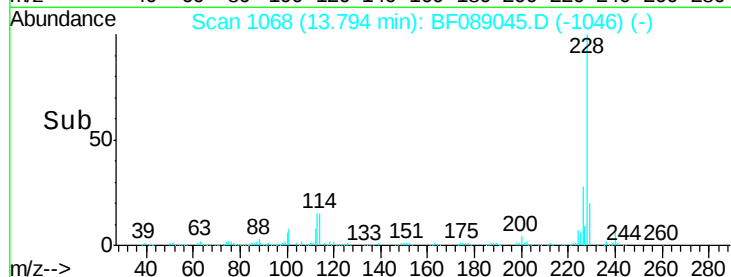
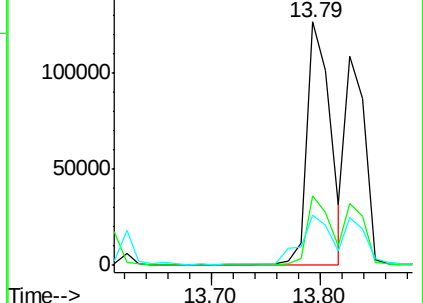
229 20.7 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 18.92 ng m

RT: 13.83 min Scan# 1071

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

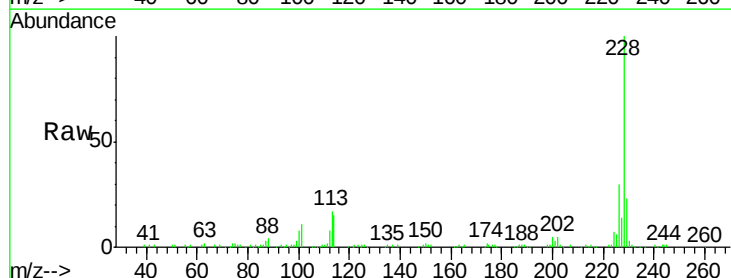
Tgt Ion:228 Resp: 137401

Ion Ratio Lower Upper

228 100

226 29.9 25.4 38.2

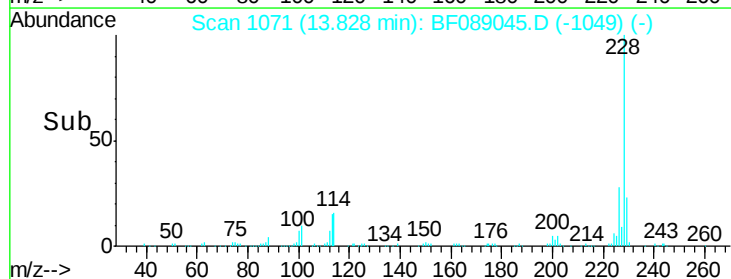
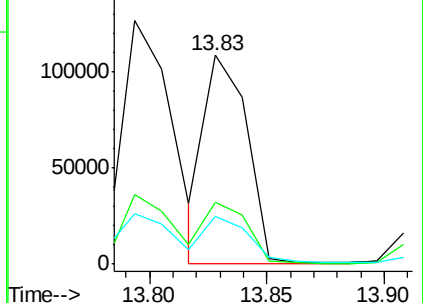
229 22.8 16.3 24.5

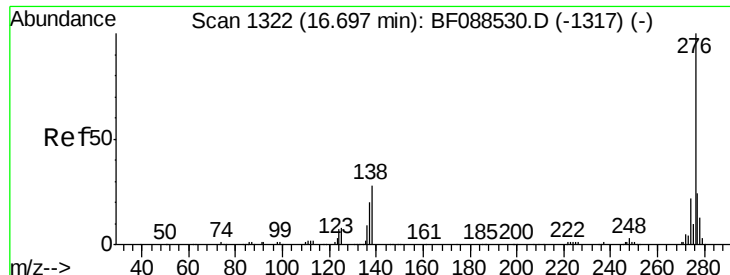


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

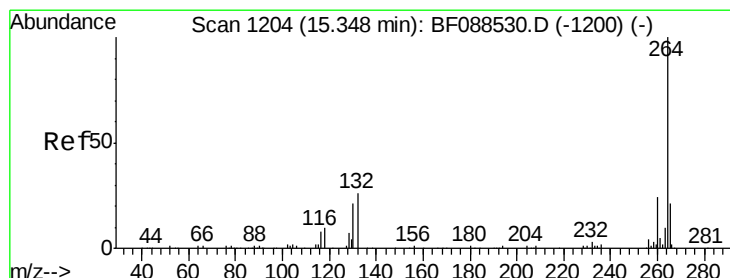
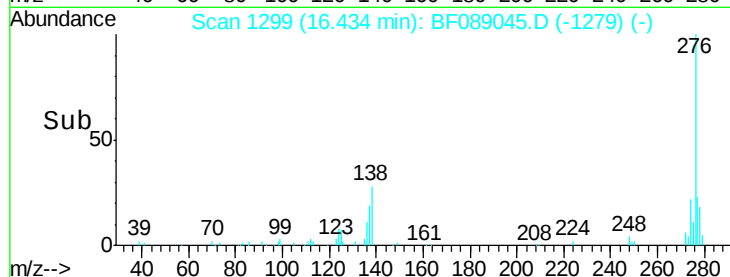
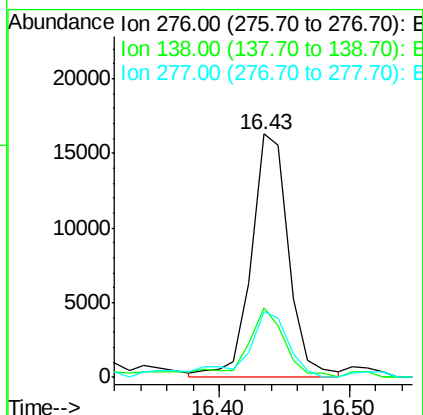
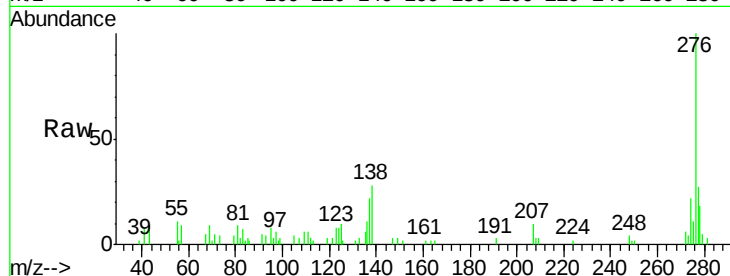




#85
Indeno(1,2,3-cd)pyrene
Concen: 5.83 ng
RT: 16.43 min Scan# 1299
Delta R.T. -0.07 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

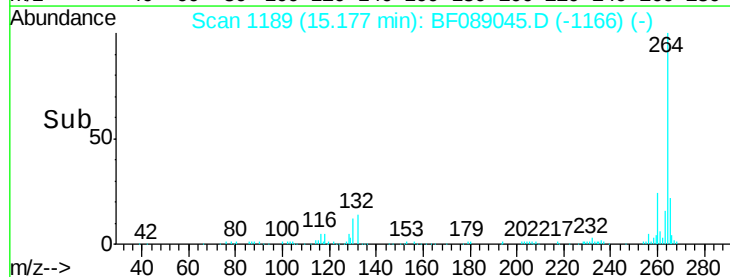
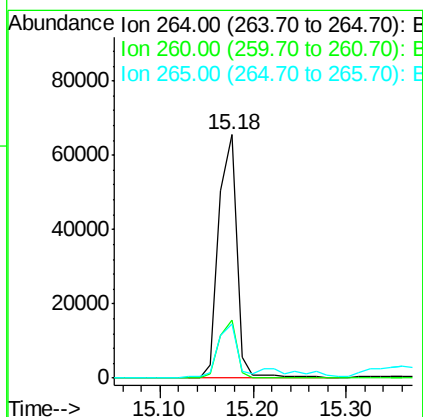
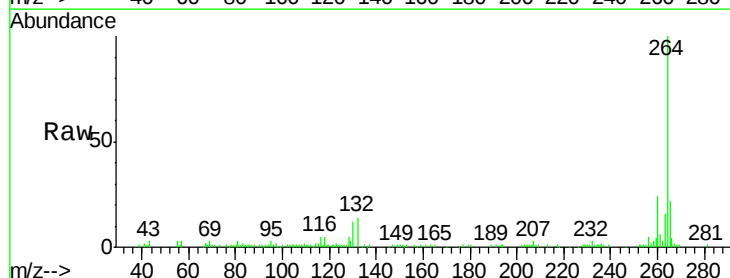
Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB09(0-2ft)DL

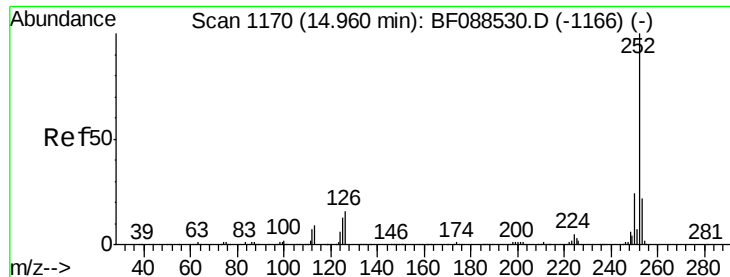
Tot Ion:276 Resp: 32551
Ion Ratio Lower Upper
276 100
138 28.8 0.0 0.0#
277 32.9 0.0 0.0#



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.03 min
Lab File: BF089045.D
Acq: 16 Jul 2016 7:02

Tgt Ion:264 Resp: 88627
Ion Ratio Lower Upper
264 100
260 23.7 19.2 28.8
265 22.1 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 23.50 ng m

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

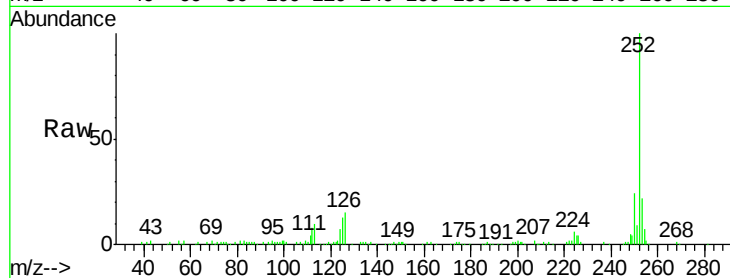
Tot Ion:252 Resp: 130672

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.2

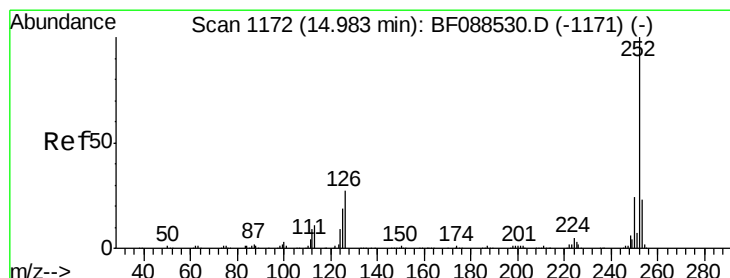
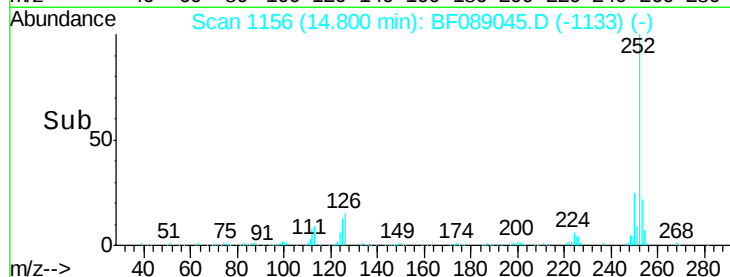
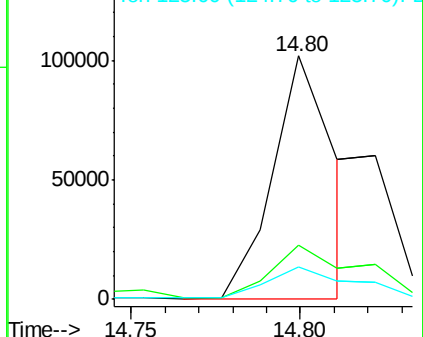
125 13.4 7.1 10.7#



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: 9.86 ng m

RT: 14.82 min Scan# 1158

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

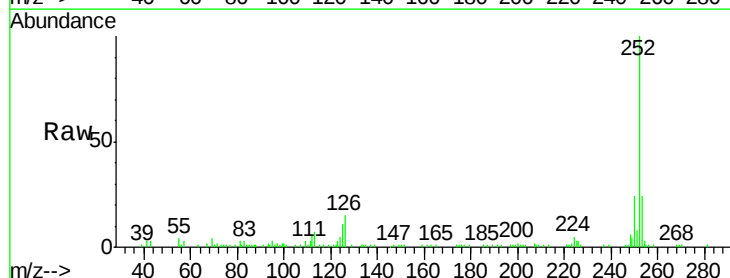
Tgt Ion:252 Resp: 47699

Ion Ratio Lower Upper

252 100

253 24.1 18.0 27.0

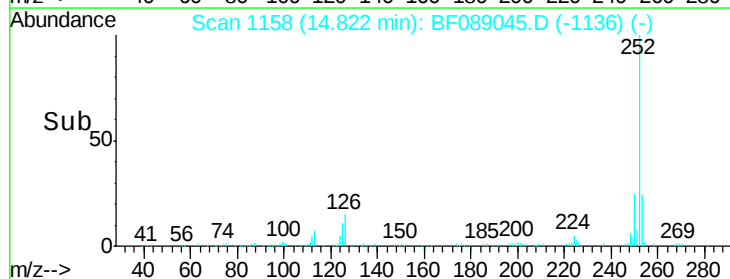
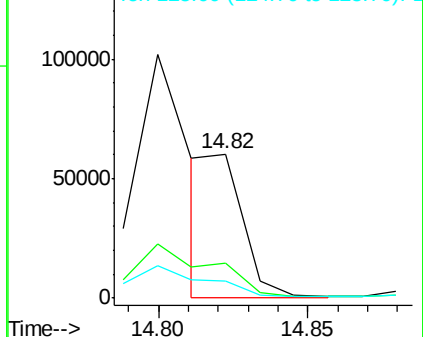
125 11.5 11.2 16.8

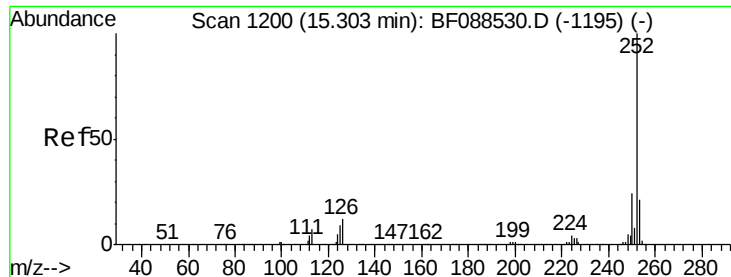


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 16.94 ng m

RT: 15.12 min Scan# 1184

Delta R.T. -0.05 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL

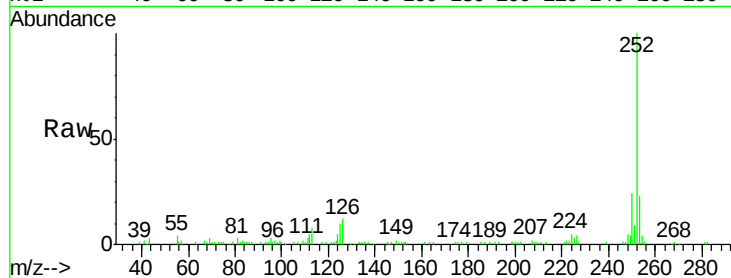
Tot Ion:252 Resp: 79742

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

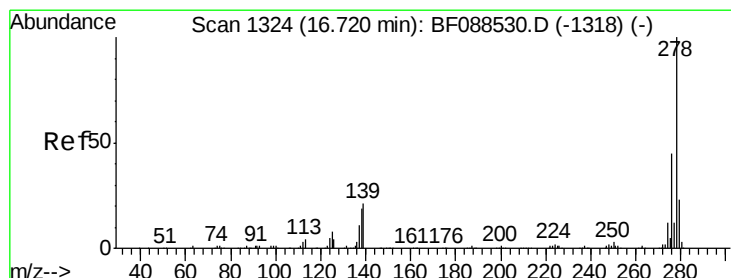
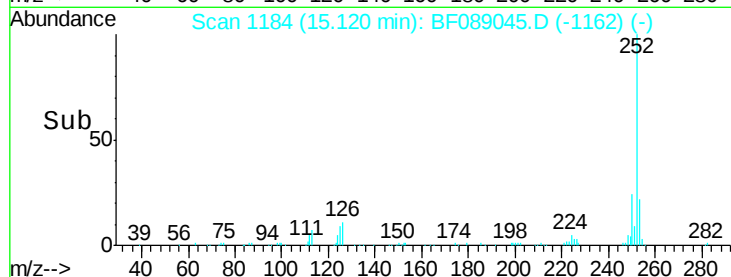
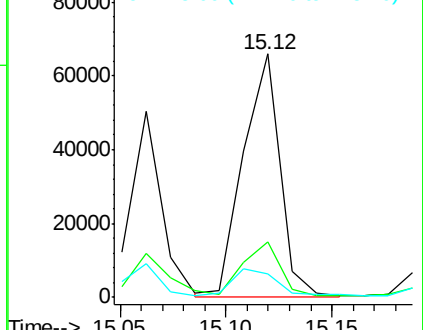
125 9.6 12.5 18.7#



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: 2.04 ng m

RT: 16.45 min Scan# 1300

Delta R.T. -0.07 min

Lab File: BF089045.D

Acq: 16 Jul 2016 7:02

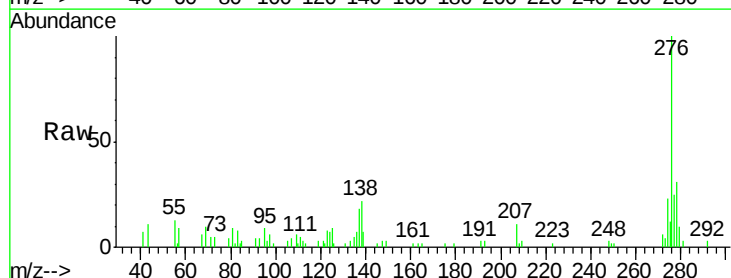
Tgt Ion:278 Resp: 8024

Ion Ratio Lower Upper

278 100

139 21.5 15.7 23.5

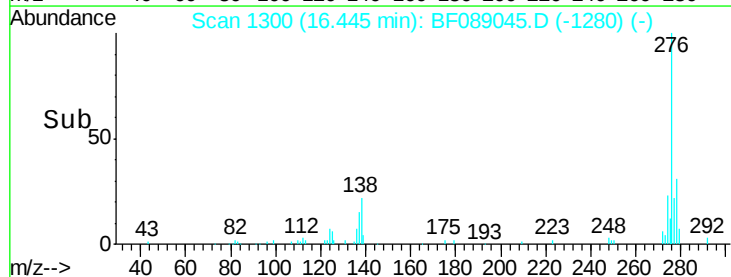
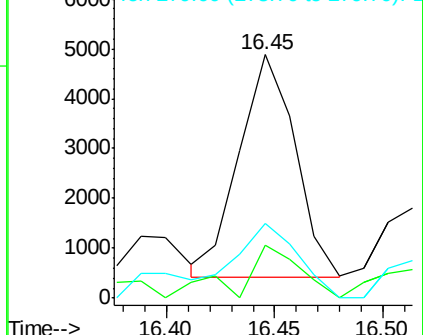
279 30.9 19.4 29.2#

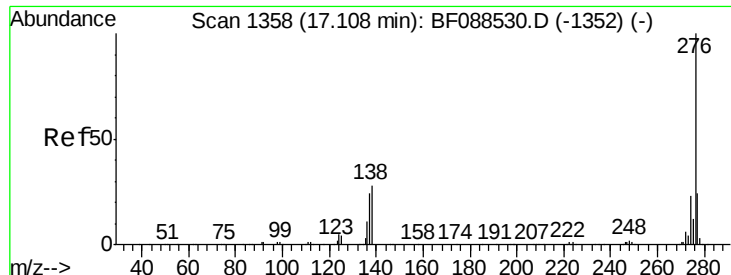


Abundance Ion 278.00 (277.70 to 278.70): E

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: 6.81 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.07 min

Lab File: BF089045.D

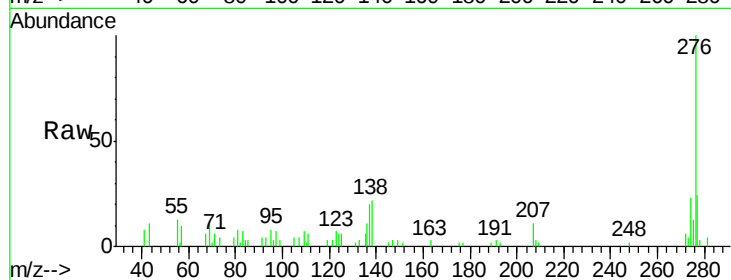
Acq: 16 Jul 2016 7:02

Instrument :

BNA_F

ClientSampleId :

LSS-SB-SB09(0-2ft)DL



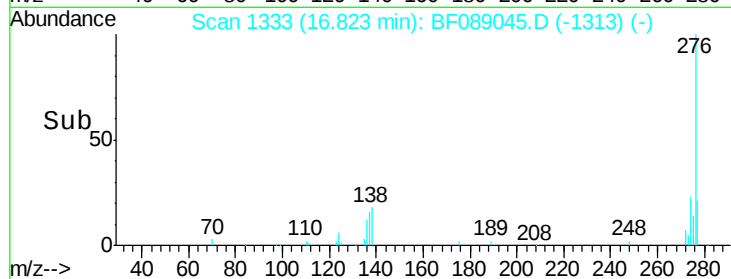
Tot Ion: 276 Resp: 27716

Ion Ratio Lower Upper

276 100

277 24.0 18.9 28.3

138 22.2 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

