

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\
 Data File : BF089044.D
 Acq On : 16 Jul 2016 6:32
 Operator : UM/SJ
 Sample : H3972-11DL 2X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SS-SS01(0-2in)DL

Quant Time: Jul 18 01:06:57 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

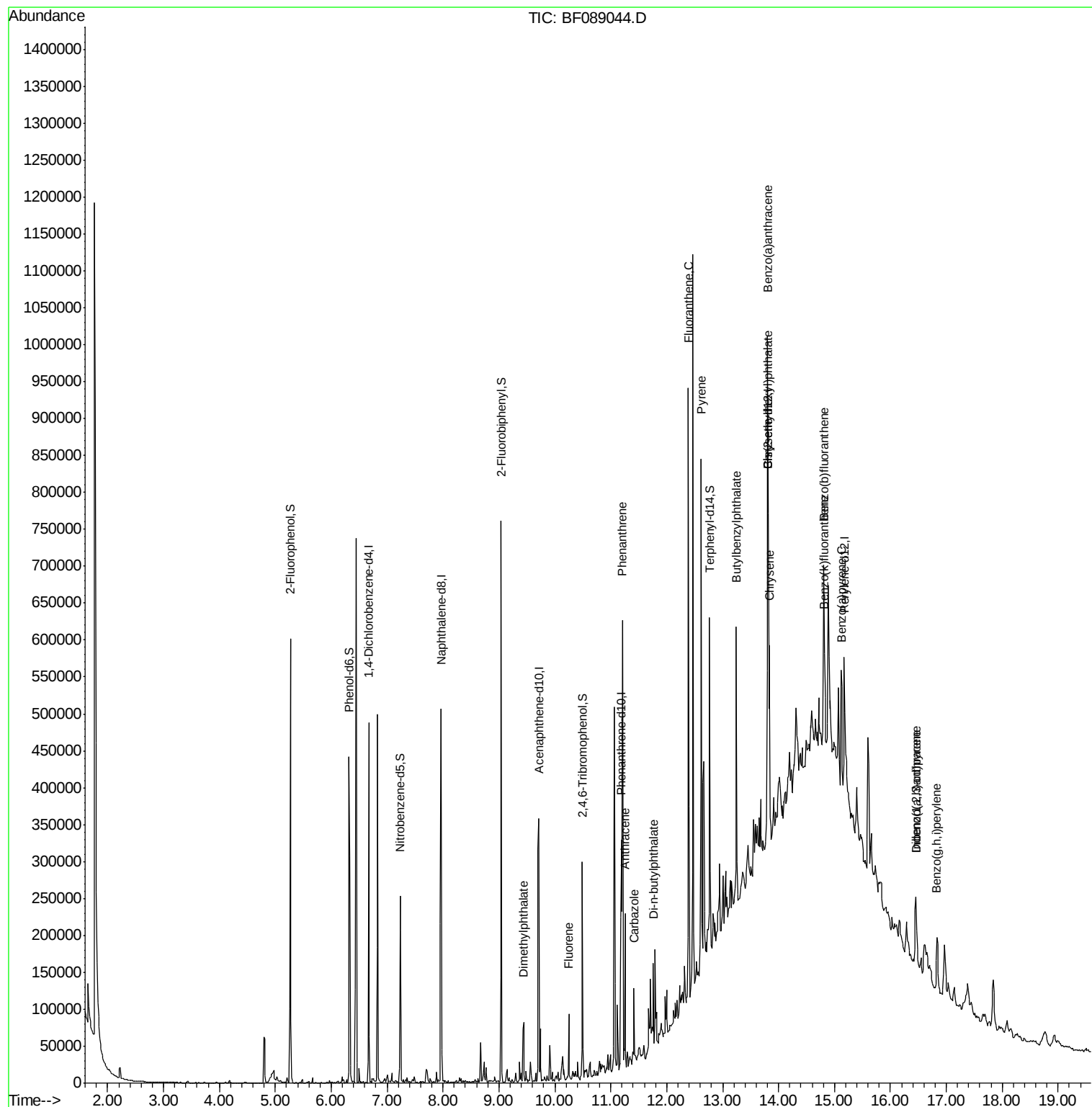
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	63992	20.00	ng	-0.03
21) Naphthalene-d8	7.96	136	244869	20.00	ng	-0.03
38) Acenaphthene-d10	9.71	164	86202	20.00	ng	-0.03
63) Phenanthrene-d10	11.19	188	134331	20.00	ng	-0.03
75) Chrysene-d12	13.82	240	110432	20.00	ng	-0.03
86) Perylene-d12	15.18	264	82051	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	158001	37.00	ng	-0.02
7) Phenol-d6	6.32	99	192424	34.88	ng	-0.03
23) Nitrobenzene-d5	7.23	82	113497	24.29	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	21762	27.19	ng	-0.05
44) 2-Fluorobiphenyl	9.04	172	212646	38.97	ng	-0.03
78) Terphenyl-d14	12.77	244	110764	22.34	ng	-0.03
Target Compounds						Qvalue
49) Dimethylphthalate	9.44	163	42441	6.91	ng	99
57) Fluorene	10.25	166	21874	3.97	ng	97
70) Phenanthrene	11.21	178	231170	31.48	ng	98
71) Anthracene	11.26	178	67344	9.22	ng	97
72) Carbazole	11.42	167	28970	4.22	ng	99
73) Di-n-butylphthalate	11.76	149	32916	4.12	ng	98
74) Fluoranthene	12.39	202	287615	38.64	ng	98
77) Pyrene	12.62	202	266798	28.49	ng	99
79) Butylbenzylphthalate	13.25	149	78470	18.79	ng	# 76
80) Benzo(a)anthracene	13.81	228	142995	20.11	ng	98
82) Chrysene	13.84	228	116770m	16.60	ng	
83) Bis(2-ethylhexyl)phthalate	13.82	149	76371	16.02	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.46	276	52202	9.64	ng	# 100
87) Benzo(b)fluoranthene	14.81	252	148199m	28.79	ng	
88) Benzo(k)fluoranthene	14.82	252	26404m	5.89	ng	
89) Benzo(a)pyrene	15.13	252	80465	18.46	ng	96
90) Dibenzo(a,h)anthracene	16.46	278	11116m	3.05	ng	
91) Benzo(g,h,i)perylene	16.83	276	52304	13.89	ng	97

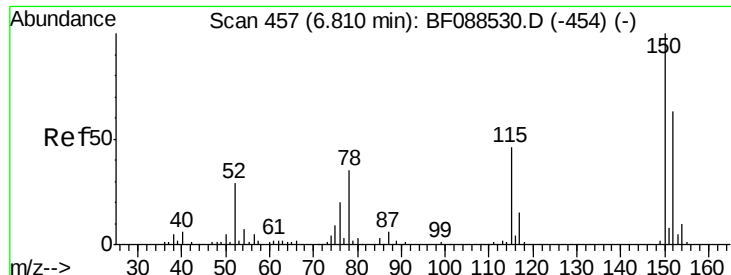
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA_F

ClientSampleId :

LSS-SS-SS01(0-2in)DL

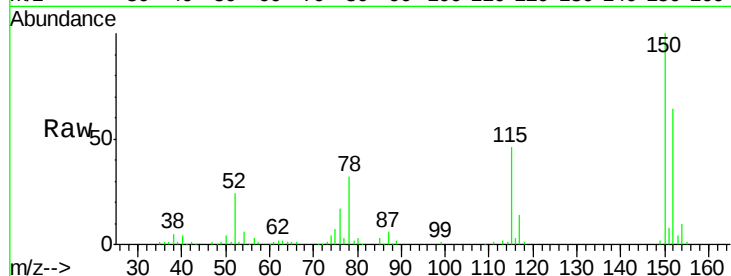
Tot Ion:152 Resp: 63992

Ion Ratio Lower Upper

152 100

150 157.2 123.8 185.6

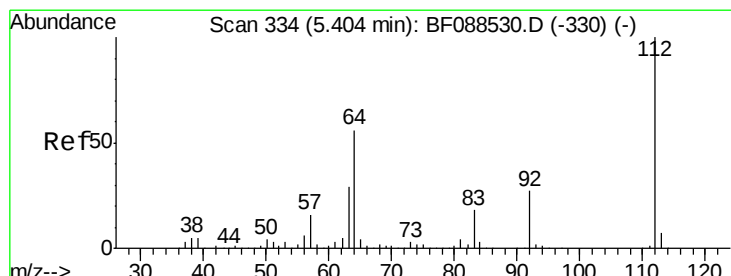
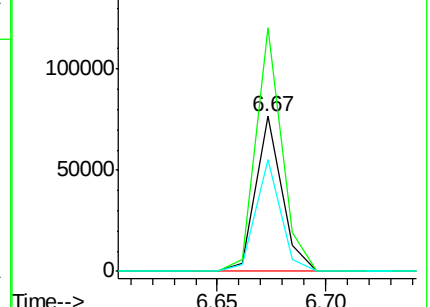
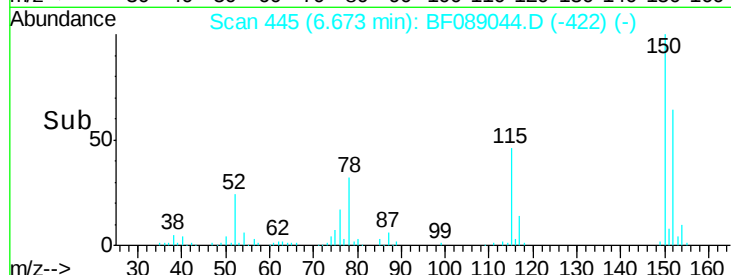
115 72.5 39.6 59.4#



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: 37.00 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

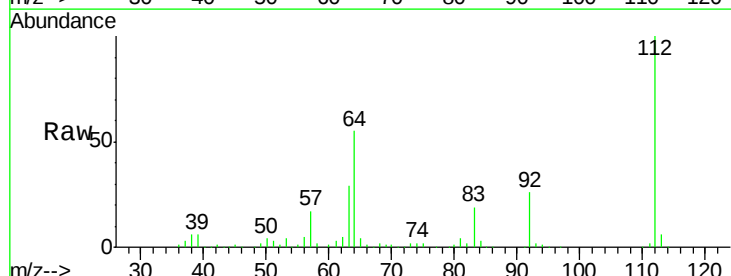
Tgt Ion:112 Resp: 158001

Ion Ratio Lower Upper

112 100

64 55.0 42.2 63.2

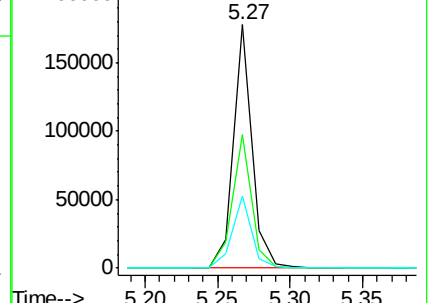
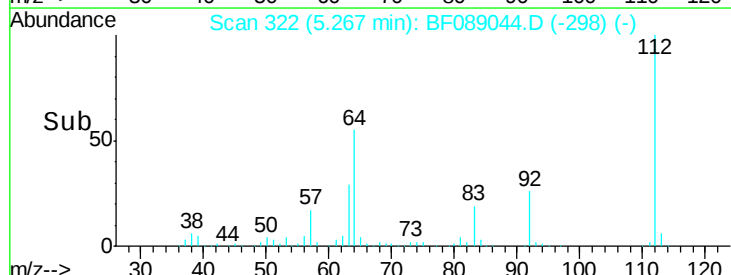
63 29.4 21.8 32.8

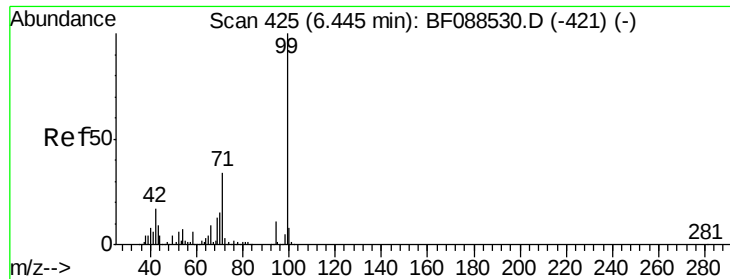


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 34.88 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA_F

ClientSampleId :

LSS-SS-SS01(0-2in)DL

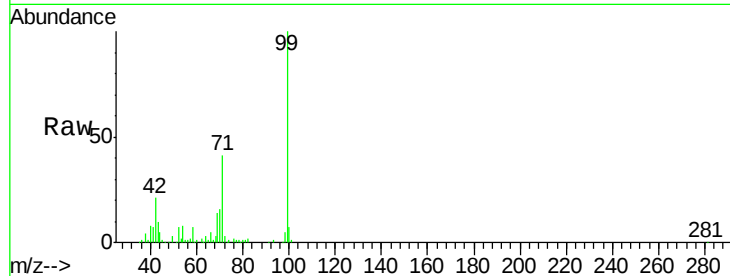
Tot Ion: 99 Resp: 192424

Ion Ratio Lower Upper

99 100

42 20.7 12.2 18.2#

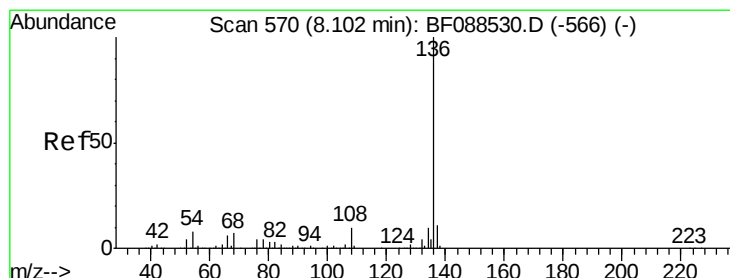
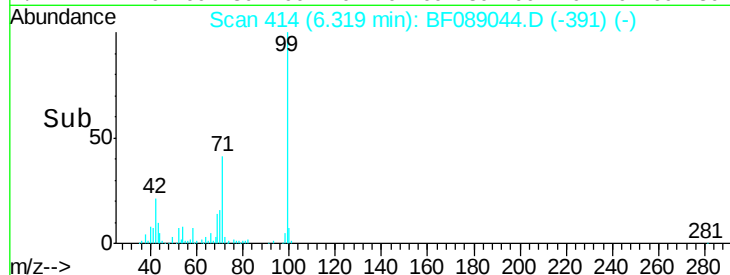
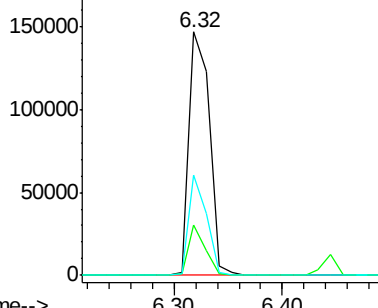
71 41.0 23.4 35.0#



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. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Tgt Ion: 136 Resp: 244869

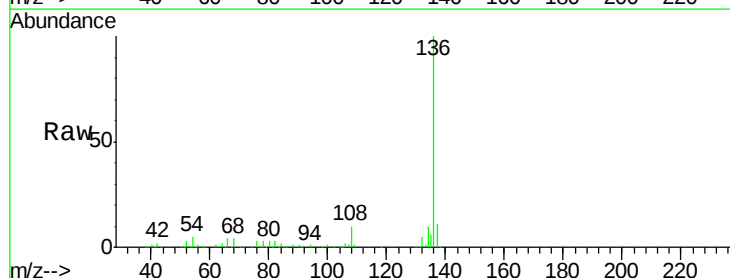
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 5.5 6.6 10.0#

68 4.5 5.1 7.7#

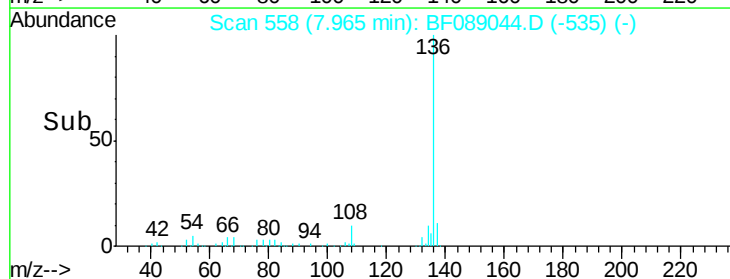
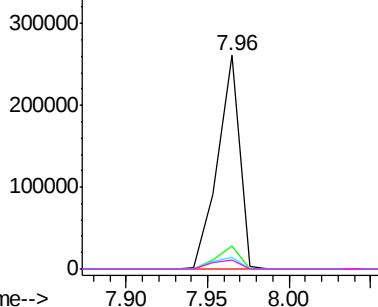


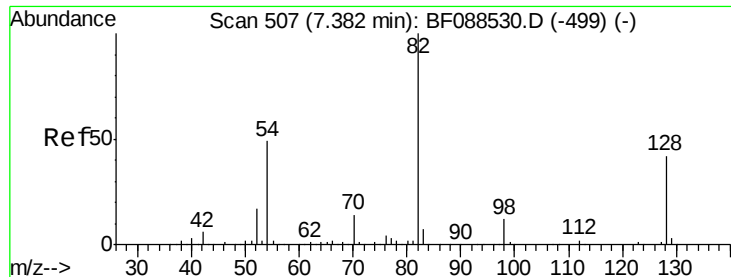
Abundance Ion 136.00 (135.70 to 136.70): E

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

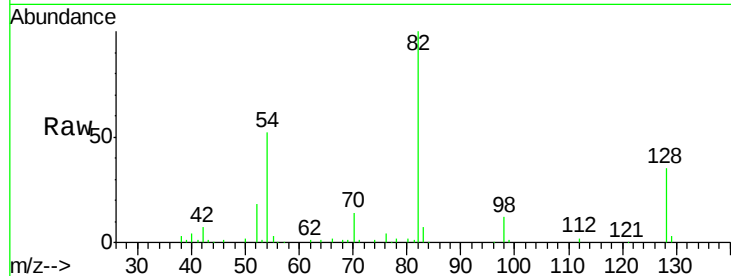




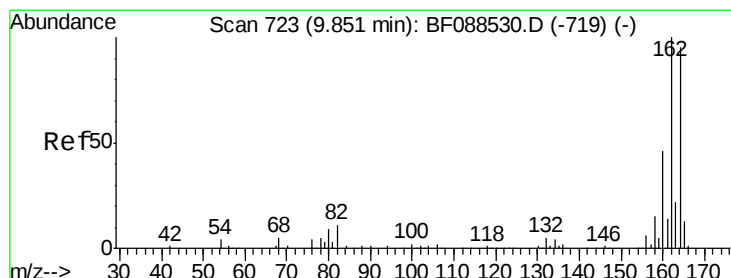
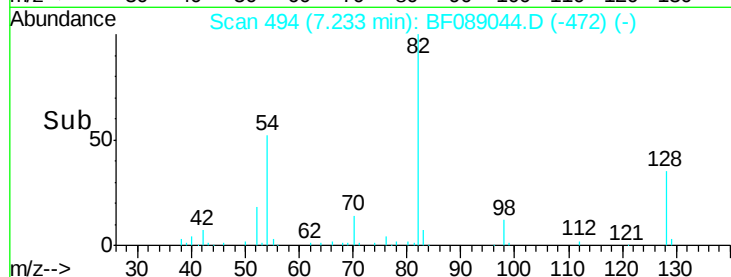
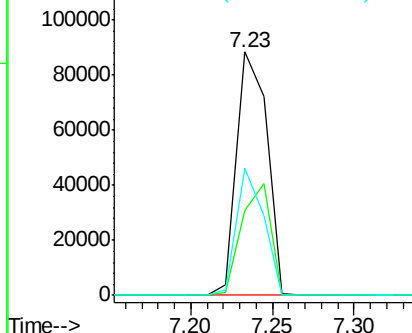
#23
 Nitrobenzene-d5
 Concen: 24.29 ng
 RT: 7.23 min Scan# 494
 Delta R.T. -0.05 min
 Lab File: BF089044.D
 Acq: 16 Jul 2016 6:32

Instrument :
 BNA_F
 ClientSampleId :
 LSS-SS-SS01(0-2in)DL

Tot Ion: 82 Resp: 113497
 Ion Ratio Lower Upper
 82 100
 128 34.6 35.9 53.9#
 54 52.4 40.9 61.3

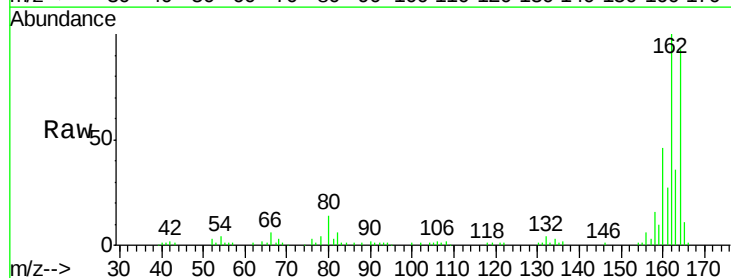


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

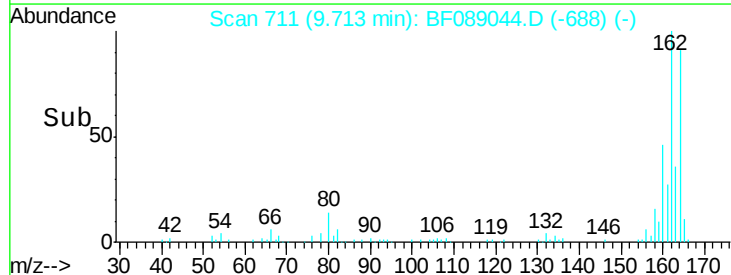
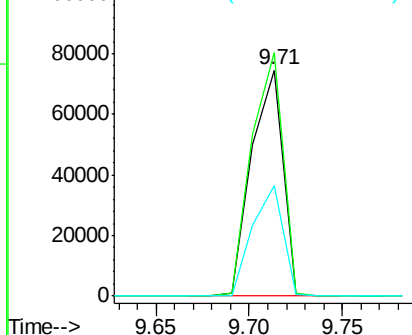


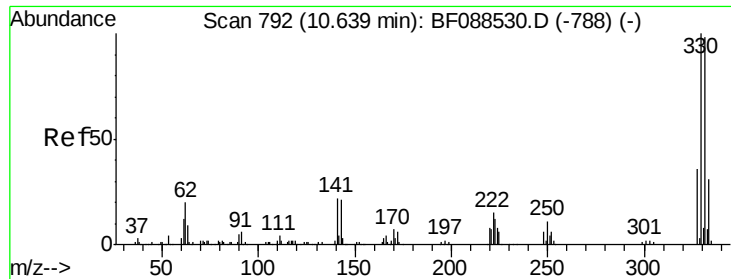
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.71 min Scan# 711
 Delta R.T. -0.03 min
 Lab File: BF089044.D
 Acq: 16 Jul 2016 6:32

Tgt Ion:164 Resp: 86202
 Ion Ratio Lower Upper
 164 100
 162 107.8 85.4 128.2
 160 49.2 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

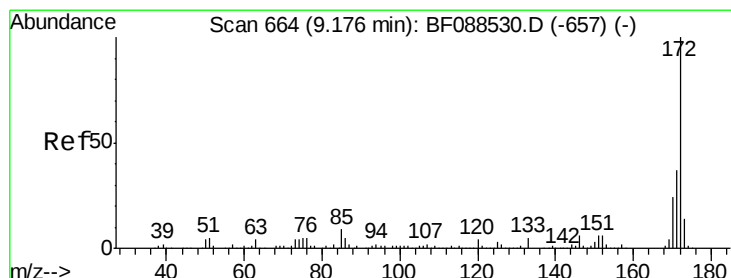
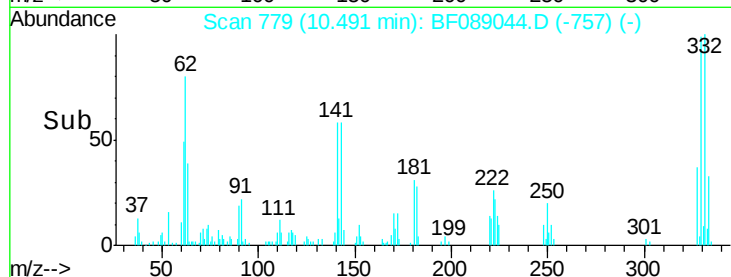
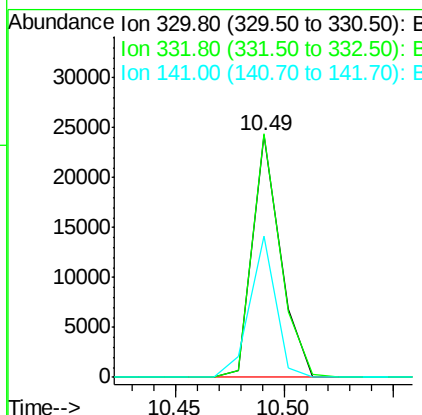
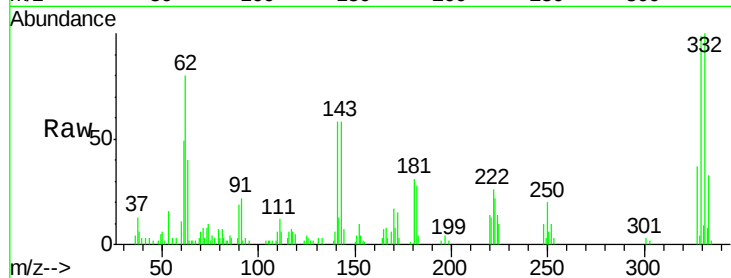




#41
 2,4,6-Tribromophenol
 Concen: 27.19 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.05 min
 Lab File: BF089044.D
 Acq: 16 Jul 2016 6:32

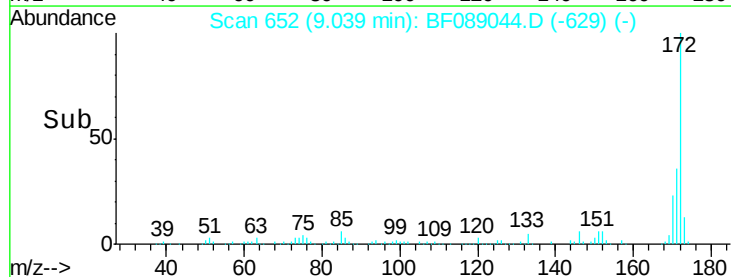
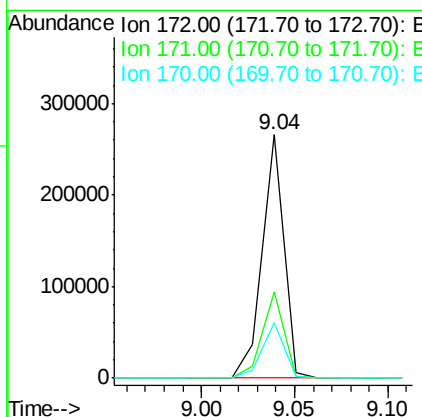
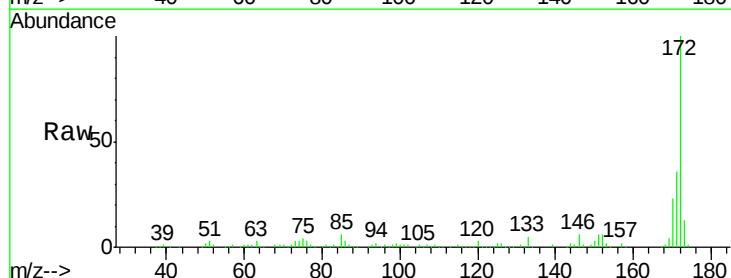
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SS-SS01(0-2in)DL

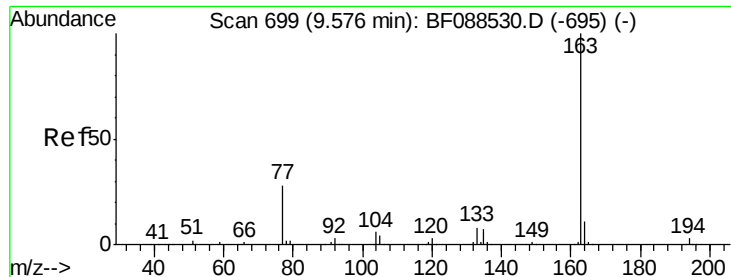
Tot Ion	Ratio	Lower	Upper
330	100		
332	100.8	0.0	0.0#
141	54.3	0.0	0.0#



#44
 2-Fluorobiphenyl
 Concen: 38.97 ng
 RT: 9.04 min Scan# 652
 Delta R.T. -0.03 min
 Lab File: BF089044.D
 Acq: 16 Jul 2016 6:32

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.0	19.2	28.8





#49

Dimethylphthalate

Concen: 6.91 ng

RT: 9.44 min Scan# 687

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA_F

ClientSampleID :

LSS-SS-SS01(0-2in)DL

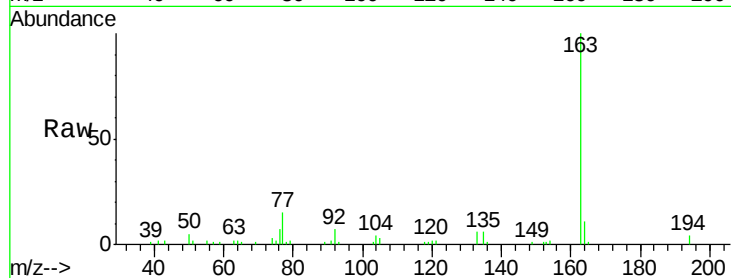
Tot Ion:163 Resp: 42441

Ion Ratio Lower Upper

163 100

194 4.0 2.8 4.2

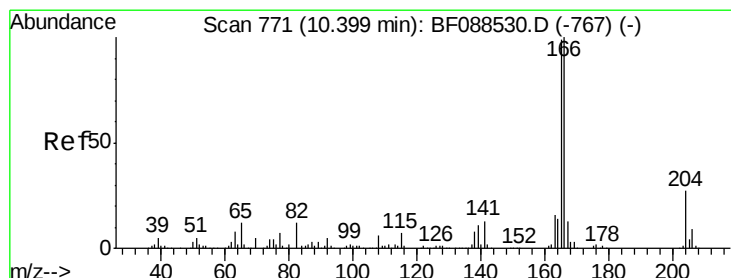
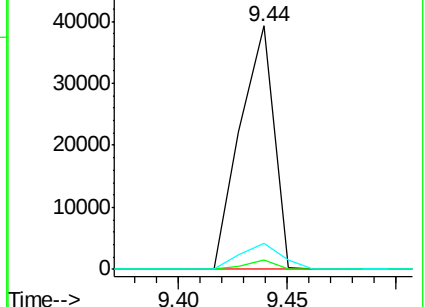
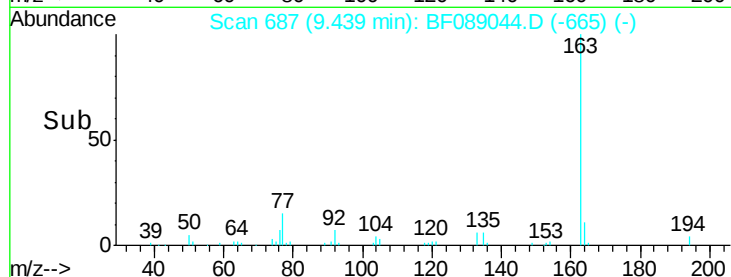
164 10.6 8.3 12.5



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



#57

Fluorene

Concen: 3.97 ng

RT: 10.25 min Scan# 758

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

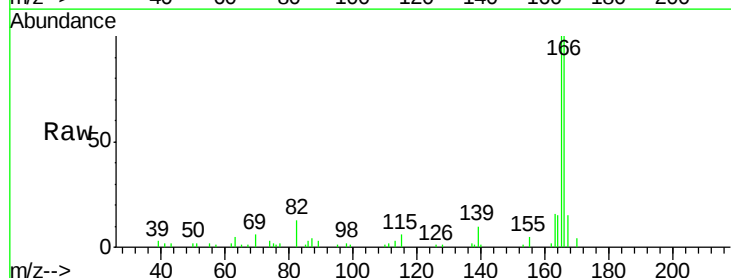
Tgt Ion:166 Resp: 21874

Ion Ratio Lower Upper

166 100

165 100.5 77.8 116.8

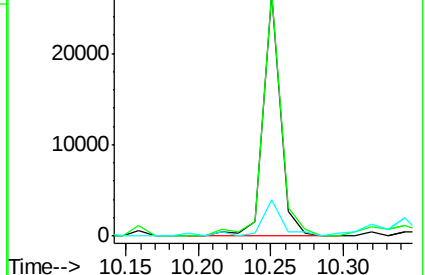
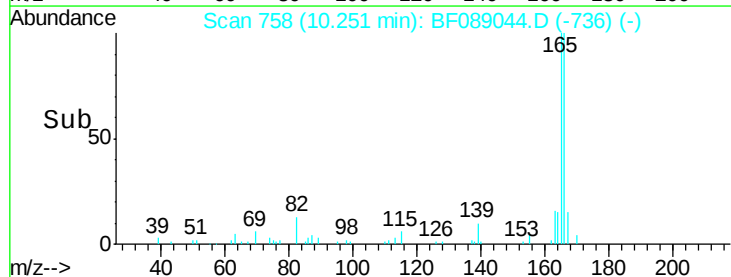
167 15.2 11.2 16.8

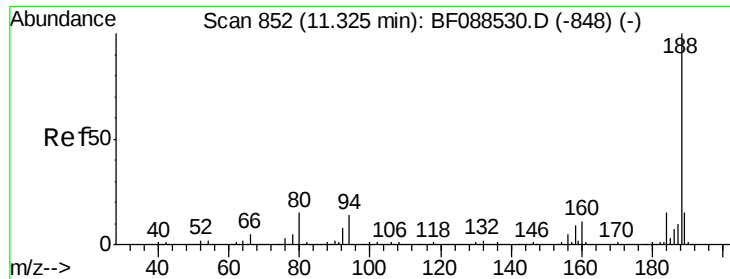


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

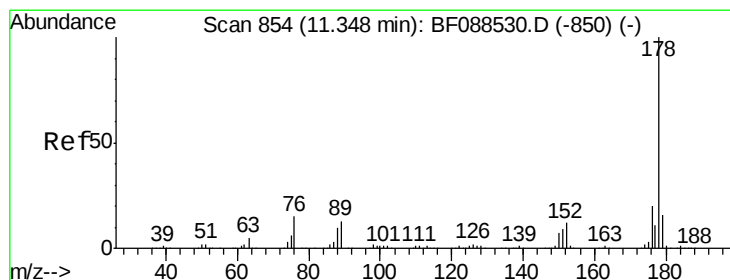
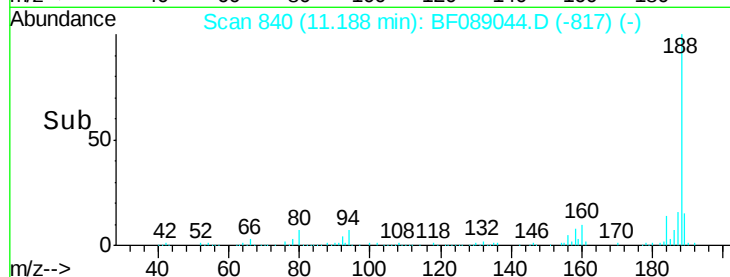
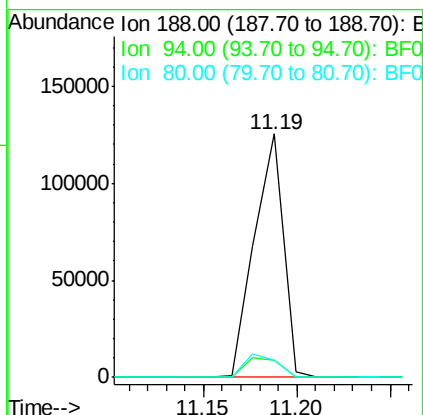
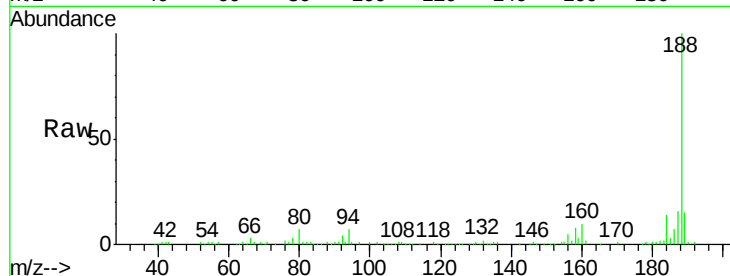




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.03 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

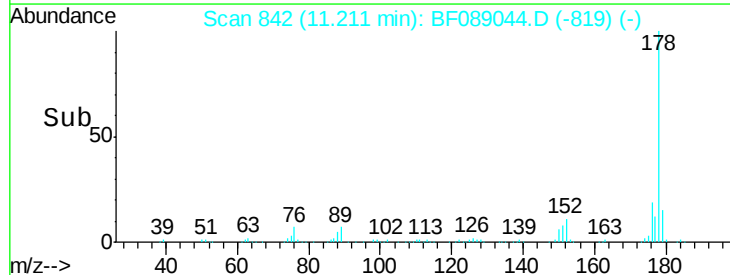
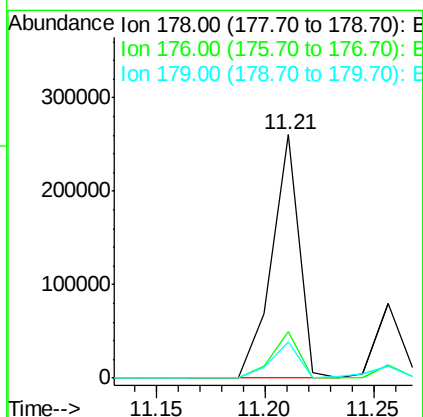
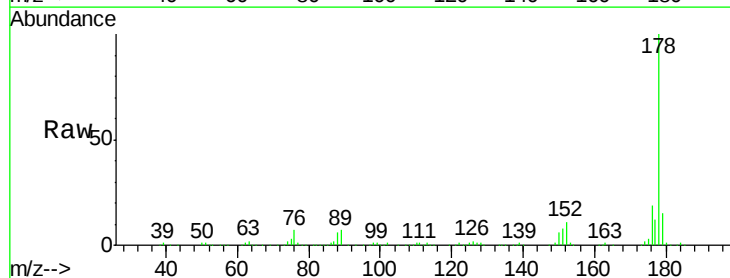
Instrument :
BNA_F
ClientSampleId :
LSS-SS-SS01(0-2in)DL

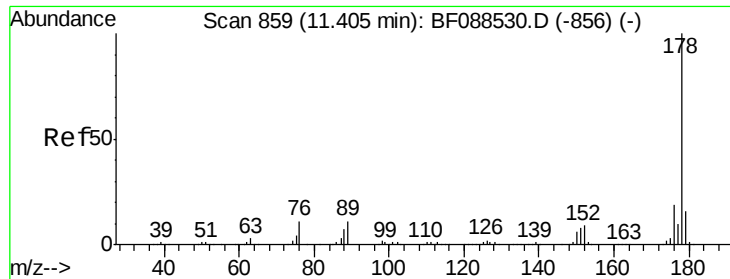
Tot Ion:188 Resp: 134331
Ion Ratio Lower Upper
188 100
94 7.1 9.0 13.6#
80 7.1 10.0 15.0#



#70
Phenanthrene
Concen: 31.48 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.03 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

Tgt Ion:178 Resp: 231170
Ion Ratio Lower Upper
178 100
176 19.0 15.8 23.6
179 15.2 13.0 19.4

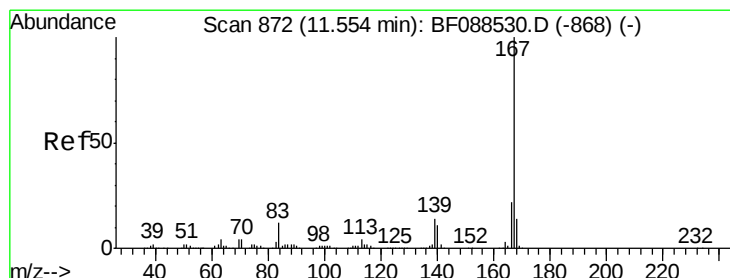
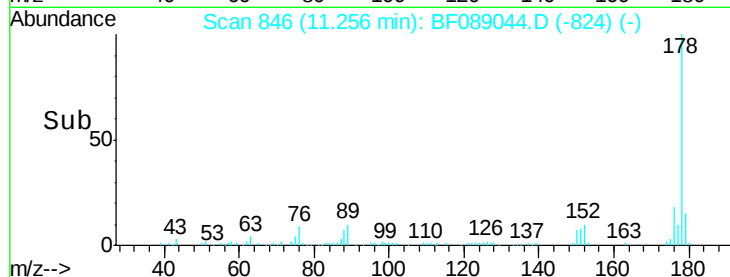
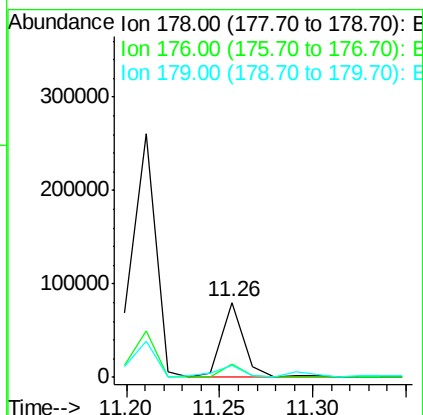
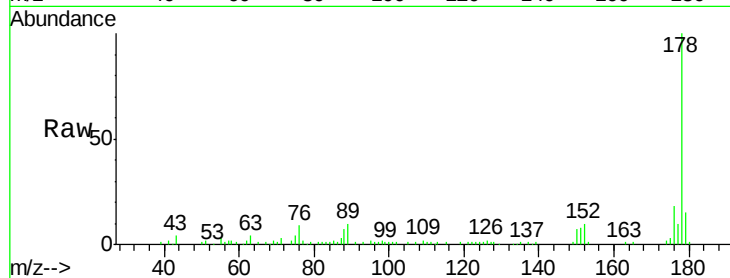




#71
 Anthracene
 Concen: 9.22 ng
 RT: 11.26 min Scan# 846
 Delta R.T. -0.05 min
 Lab File: BF089044.D
 Acq: 16 Jul 2016 6:32

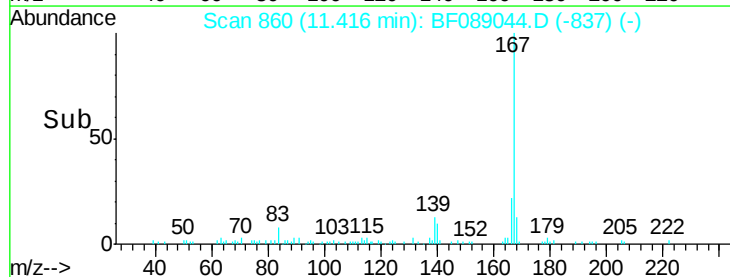
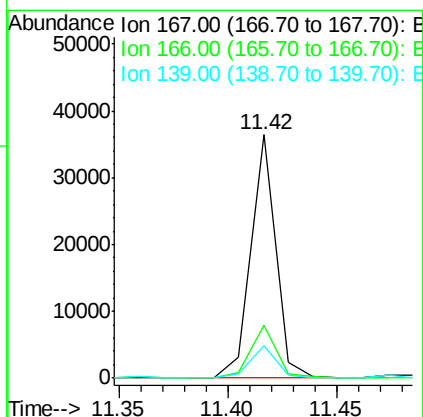
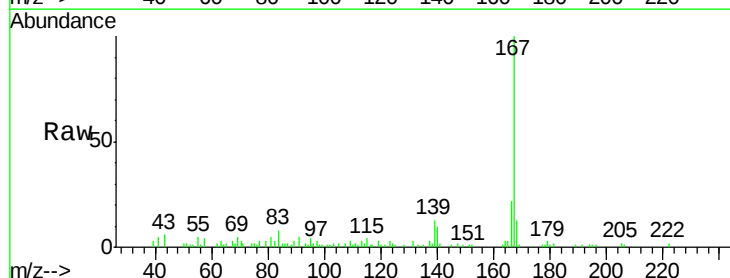
Instrument :
 BNA_F
 ClientSampleId :
 LSS-SS-SS01(0-2in)DL

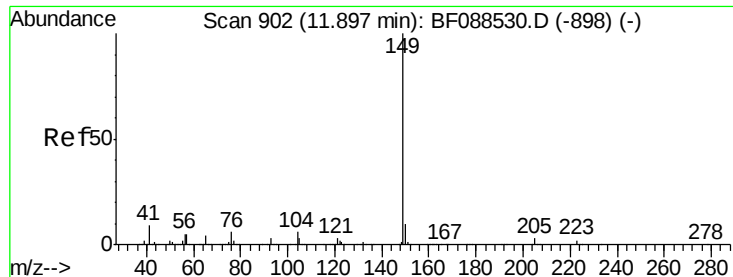
Tot Ion:178 Resp: 67344
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.6 23.4
 179 15.4 12.8 19.2



#72
 Carbazole
 Concen: 4.22 ng
 RT: 11.42 min Scan# 860
 Delta R.T. -0.03 min
 Lab File: BF089044.D
 Acq: 16 Jul 2016 6:32

Tgt Ion:167 Resp: 28970
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.8 26.6
 139 13.5 11.2 16.8





#73

Di-n-butylphthalate

Concen: 4.12 ng

RT: 11.76 min Scan# 890

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA_F

ClientSampleId :

LSS-SS-SS01(0-2in)DL

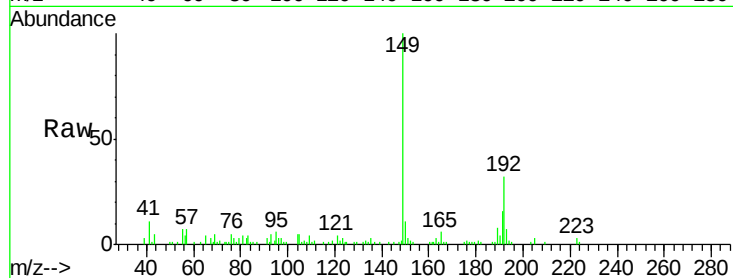
Tot Ion:149 Resp: 32916

Ion Ratio Lower Upper

149 100

150 10.5 7.8 11.6

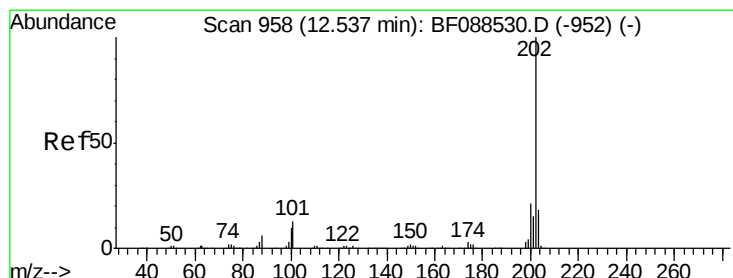
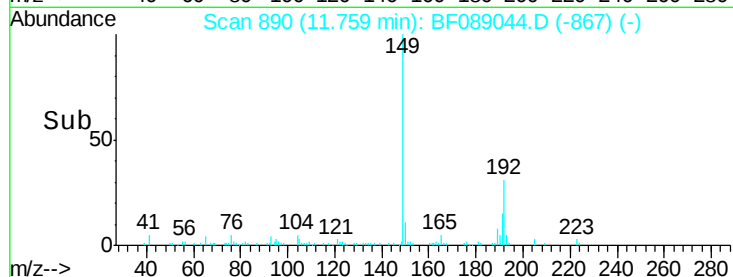
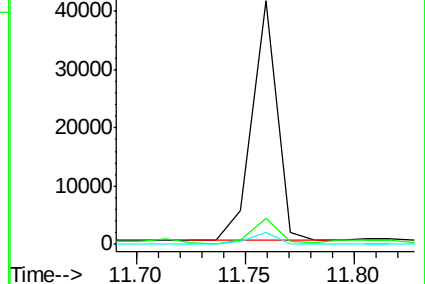
104 5.1 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 38.64 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

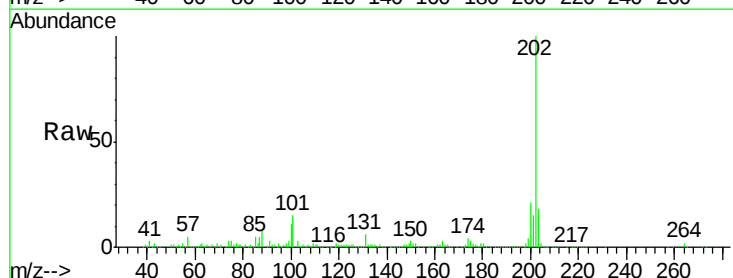
Tgt Ion:202 Resp: 287615

Ion Ratio Lower Upper

202 100

101 14.8 0.0 33.1

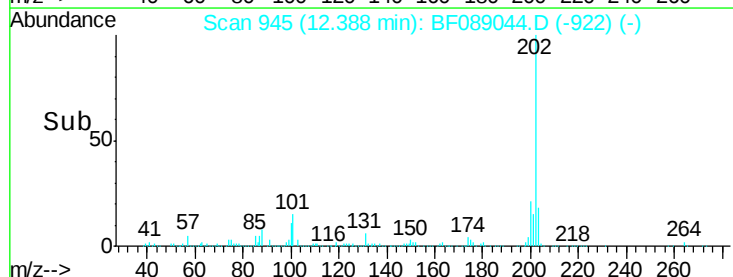
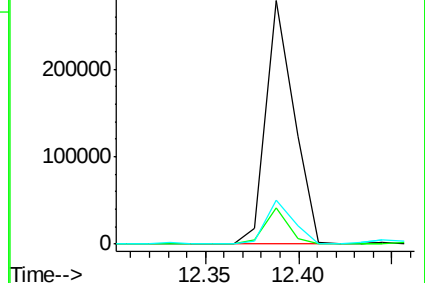
203 17.9 0.0 38.1

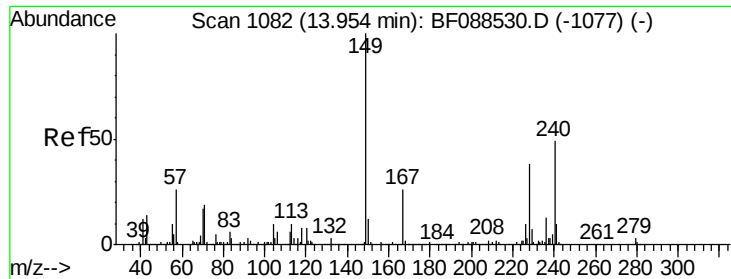


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

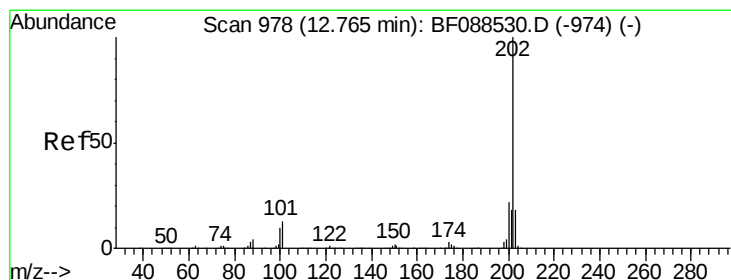
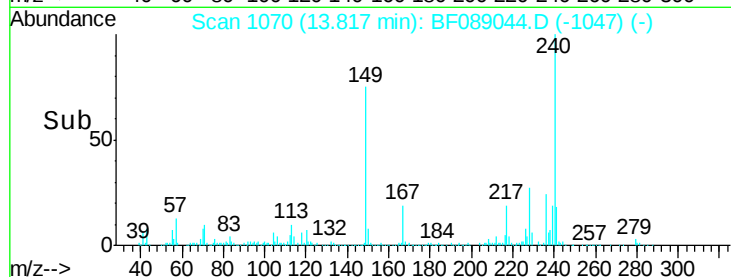
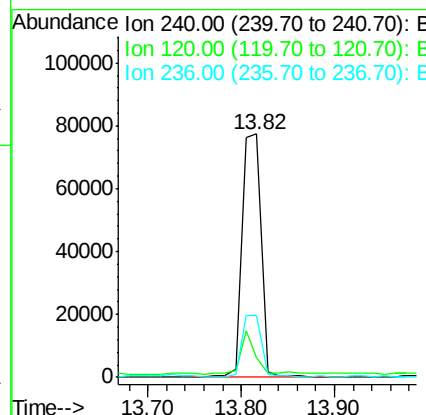
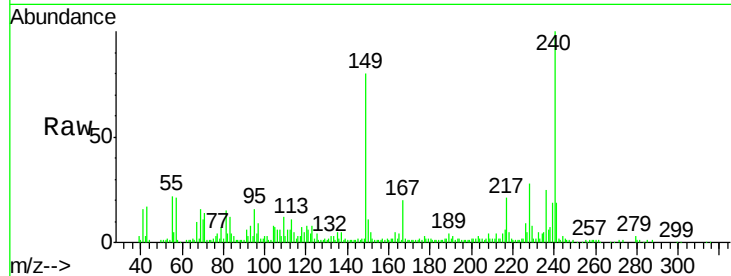




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.82 min Scan# 1070
Delta R.T. -0.03 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

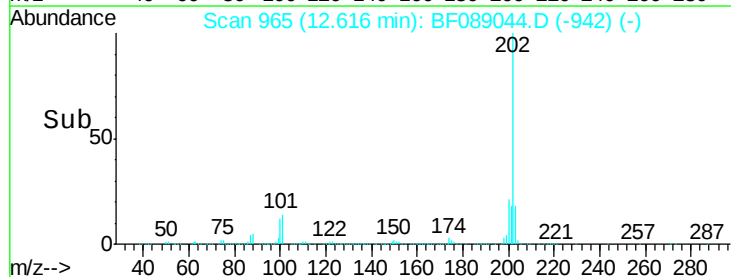
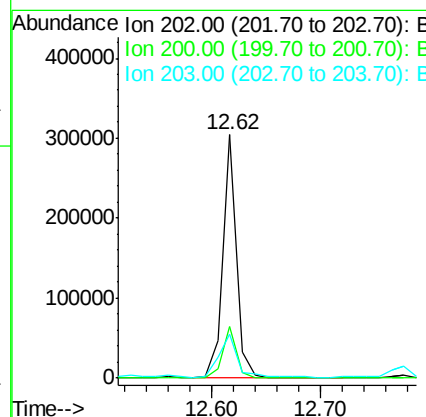
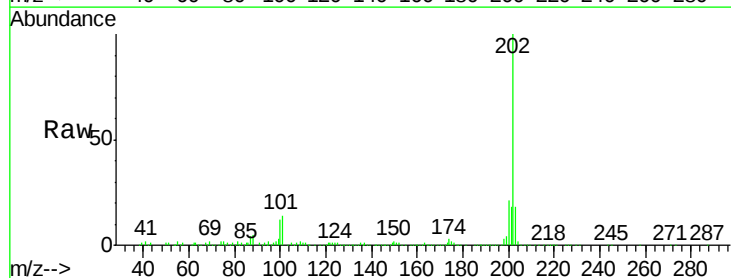
Instrument :
BNA_F
ClientSampleId :
LSS-SS-SS01(0-2in)DL

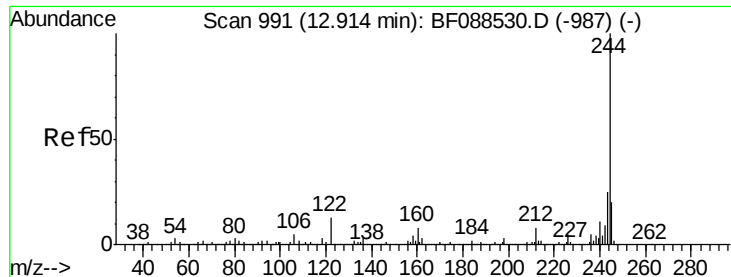
Tot Ion:240 Resp: 110432
Ion Ratio Lower Upper
240 100
120 8.0 6.8 10.2
236 25.2 20.2 30.2



#77
Pyrene
Concen: 28.49 ng
RT: 12.62 min Scan# 965
Delta R.T. -0.03 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

Tgt Ion:202 Resp: 266798
Ion Ratio Lower Upper
202 100
200 20.9 17.4 26.2
203 18.1 14.5 21.7





#78

Terphenyl-d14

Concen: 22.34 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA_F

ClientSampleId :

LSS-SS-SS01(0-2in)DL

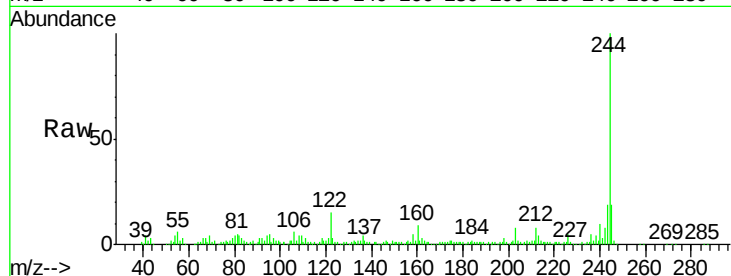
Tot Ion:244 Resp: 110764

Ion Ratio Lower Upper

244 100

212 8.1 6.0 9.0

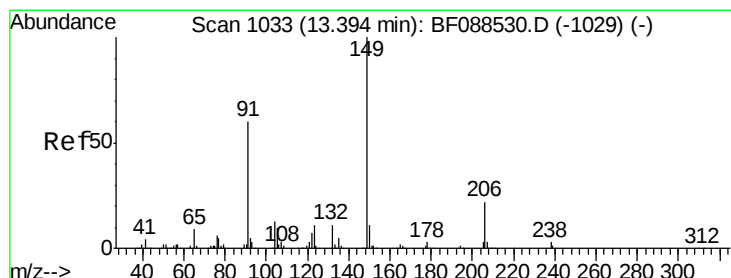
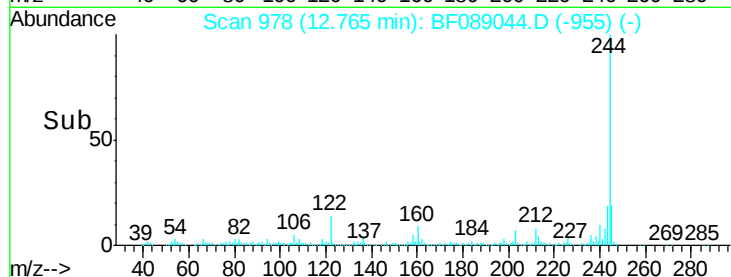
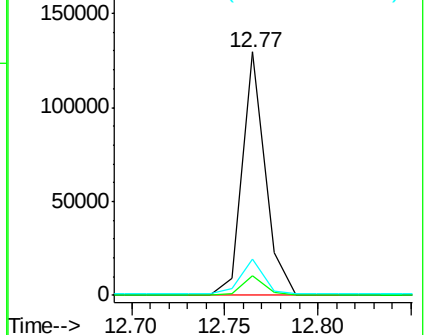
122 14.9 11.2 16.8



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



#79

Butylbenzylphthalate

Concen: 18.79 ng

RT: 13.25 min Scan# 1020

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

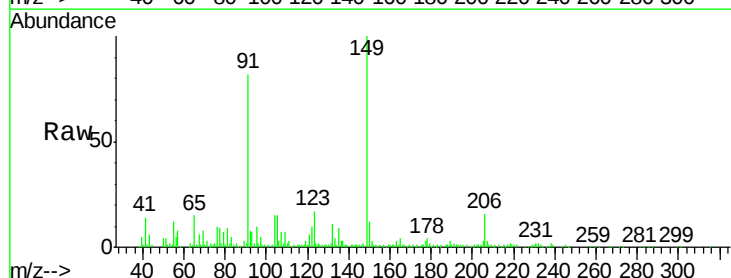
Tgt Ion:149 Resp: 78470

Ion Ratio Lower Upper

149 100

91 81.6 48.0 72.0#

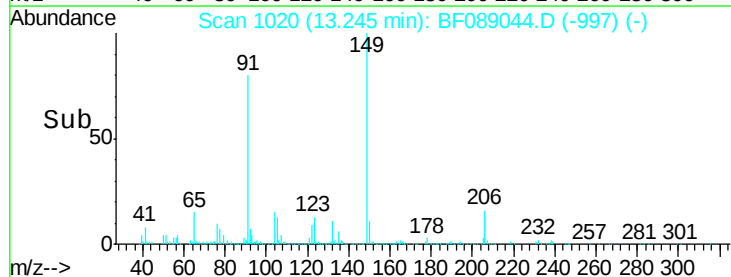
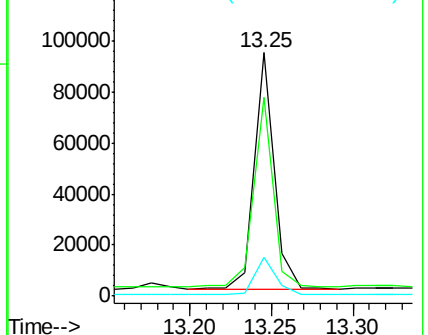
206 15.8 16.0 24.0#

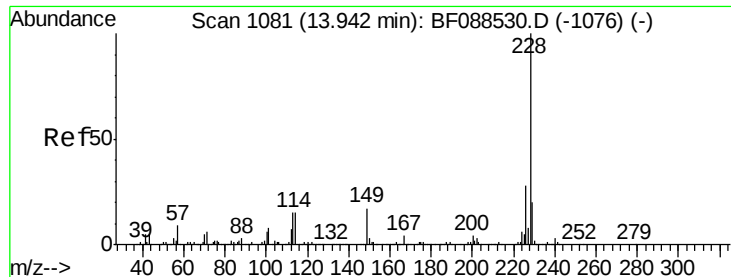


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 20.11 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA_F

ClientSampleId :

LSS-SS-SS01(0-2in)DL

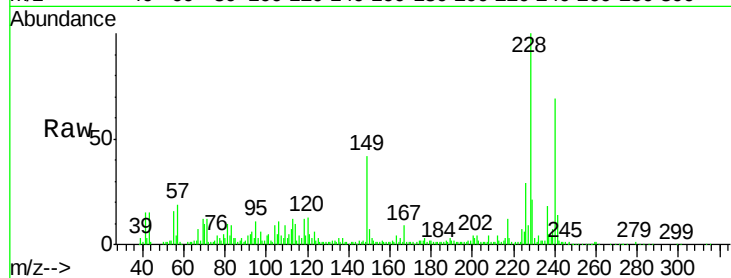
Tot Ion:228 Resp: 142995

Ion Ratio Lower Upper

228 100

226 29.3 22.3 33.5

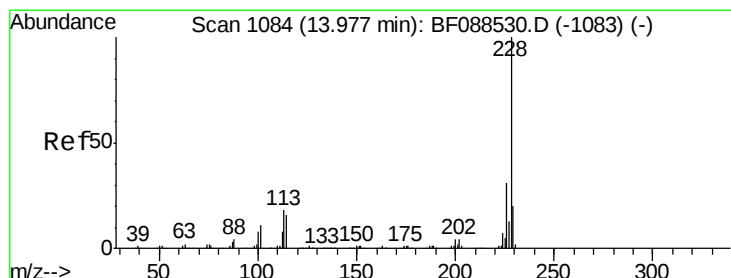
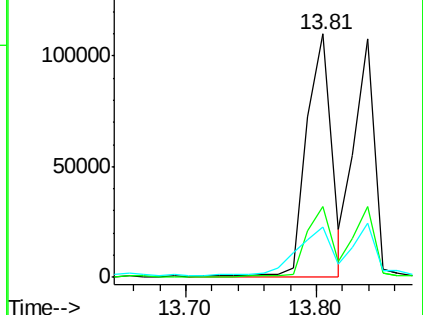
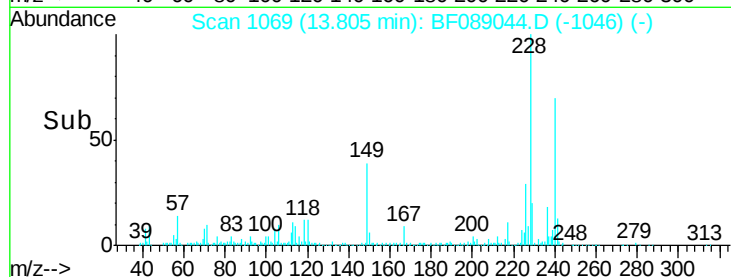
229 20.6 16.0 24.0



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: 16.60 ng m

RT: 13.84 min Scan# 1072

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

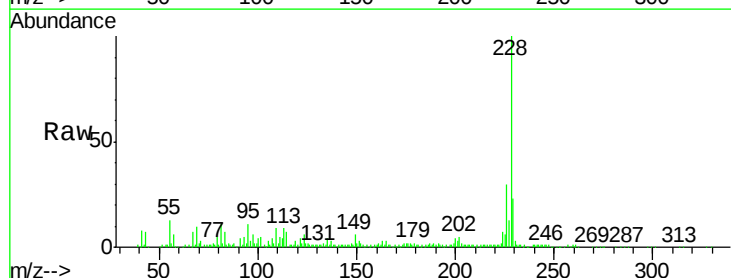
Tgt Ion:228 Resp: 116770

Ion Ratio Lower Upper

228 100

226 29.8 25.4 38.2

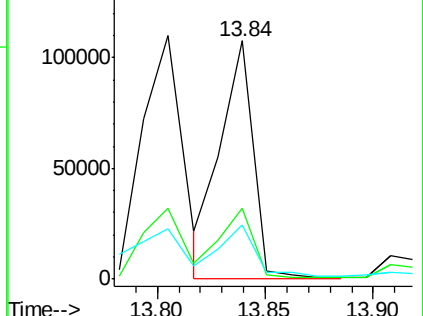
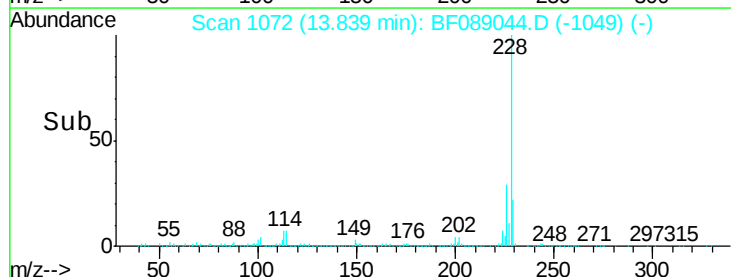
229 22.9 16.3 24.5

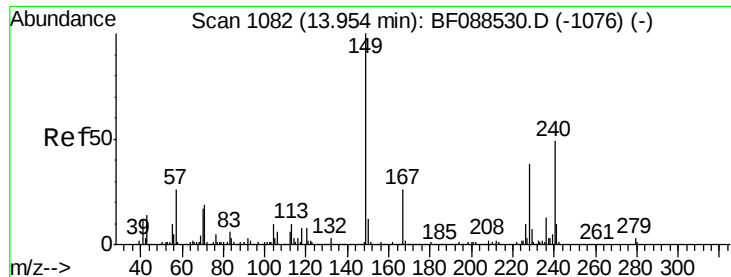


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 16.02 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA_F

ClientSampleId :

LSS-SS-SS01(0-2in)DL

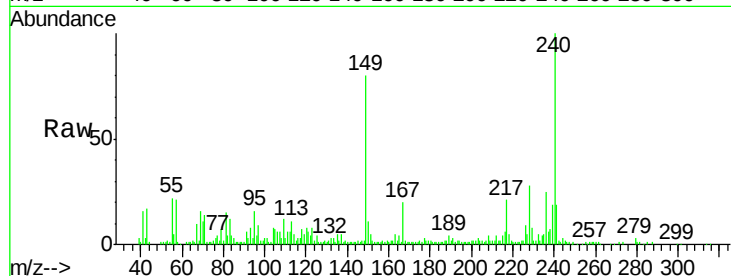
Tot Ion:149 Resp: 76371

Ion Ratio Lower Upper

149 100

167 25.0 20.5 30.7

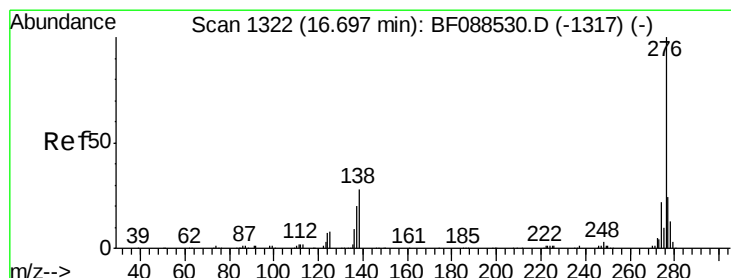
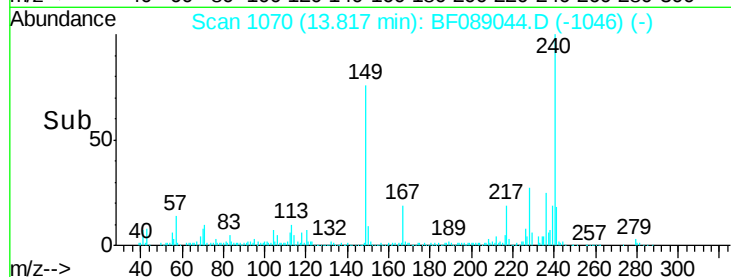
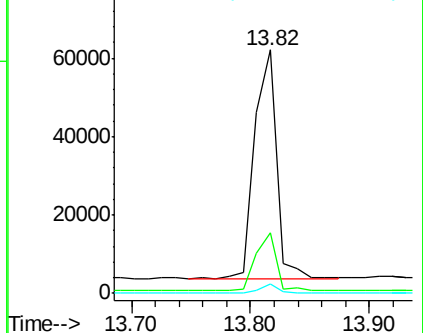
279 3.6 2.0 3.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.64 ng

RT: 16.46 min Scan# 1301

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

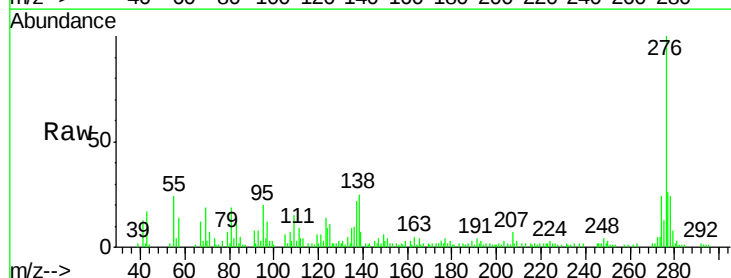
Tgt Ion:276 Resp: 52202

Ion Ratio Lower Upper

276 100

138 25.7 0.0 0.0#

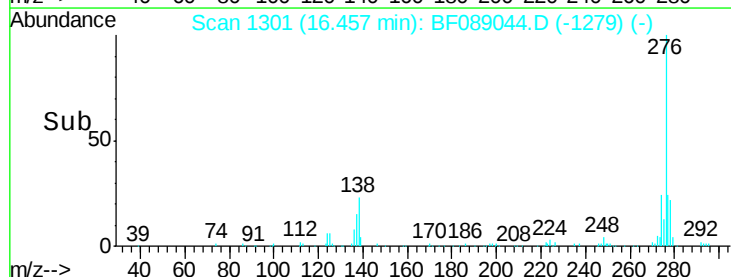
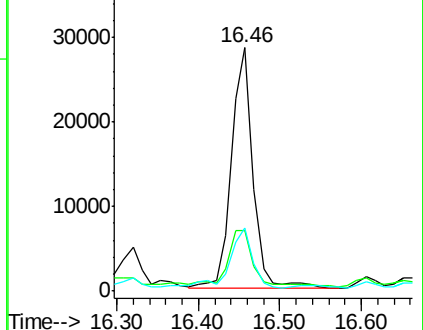
277 27.2 0.0 0.0#

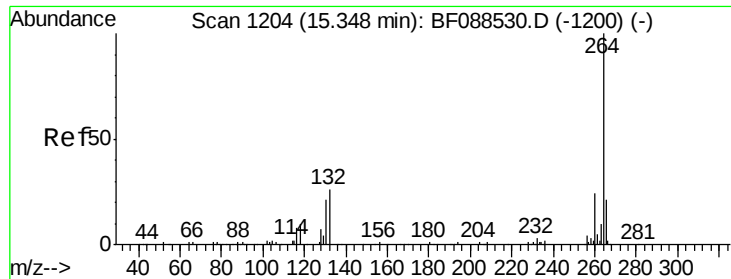


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

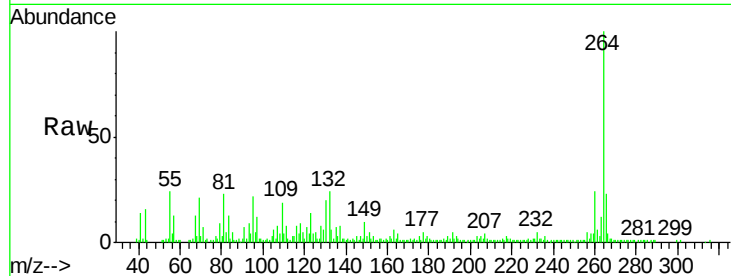




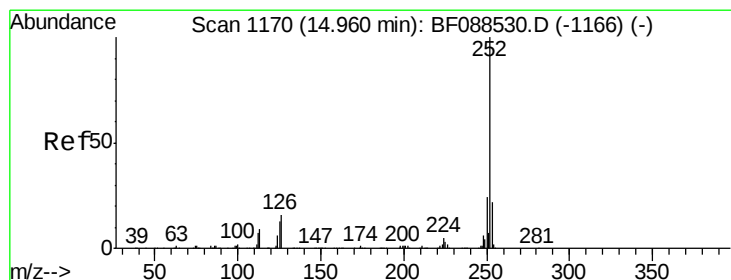
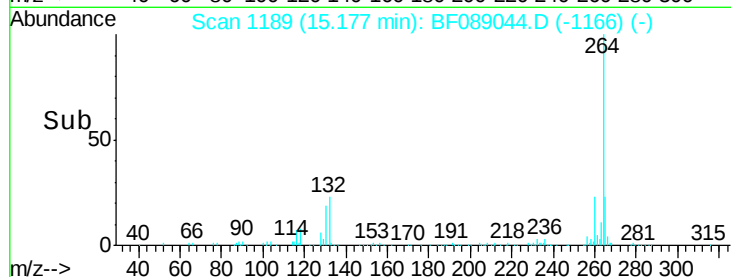
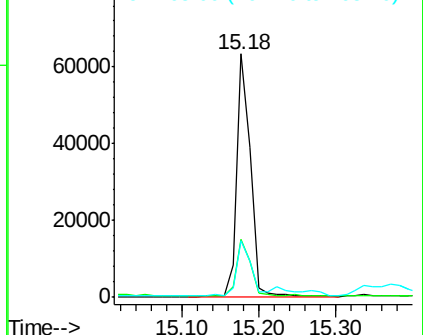
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.18 min Scan# 1189
Delta R.T. -0.03 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

Instrument :
BNA_F
ClientSampleId :
LSS-SS-SS01(0-2in)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	23.1	16.9	25.3

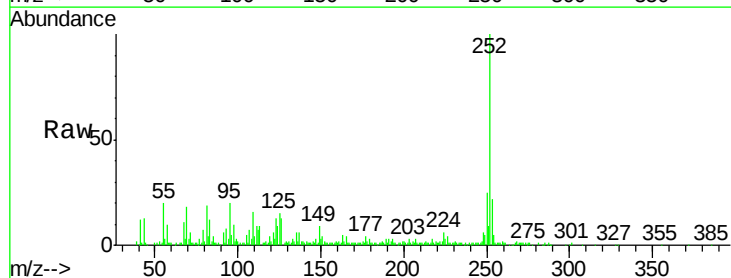


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

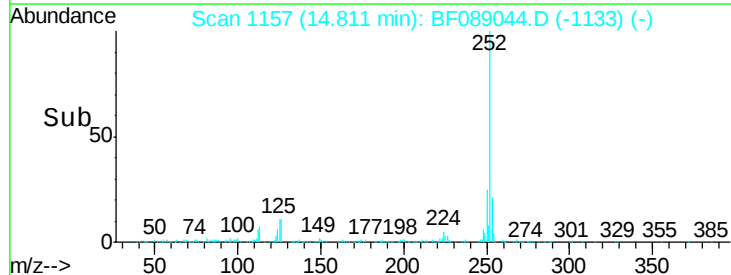
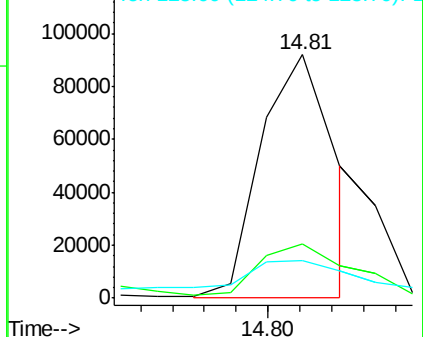


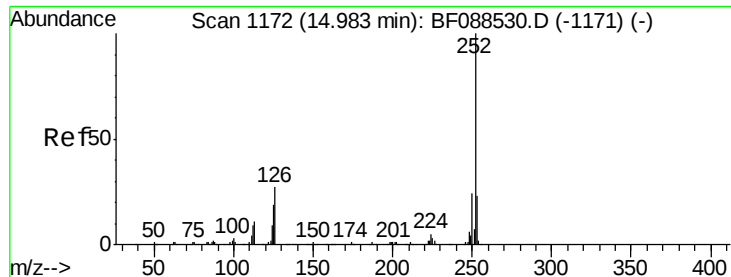
#87
Benzo(b)fluoranthene
Concen: 28.79 ng m
RT: 14.81 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2
125	15.4	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

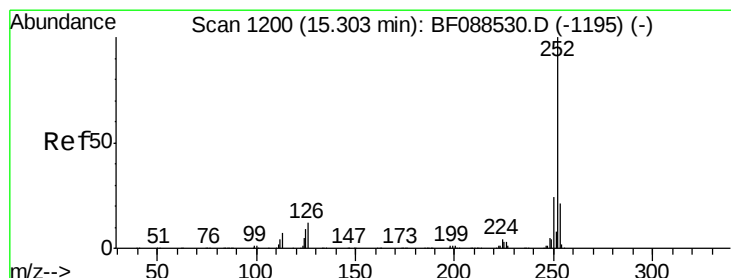
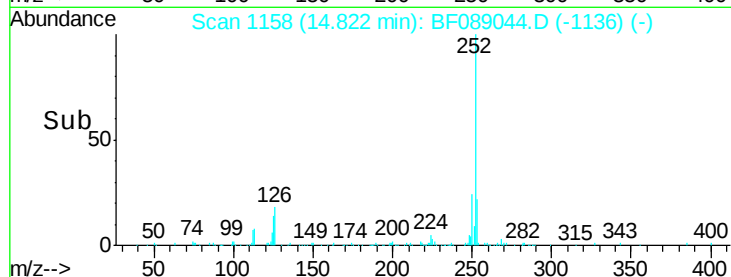
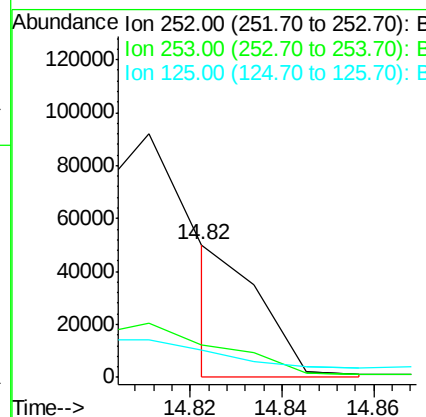
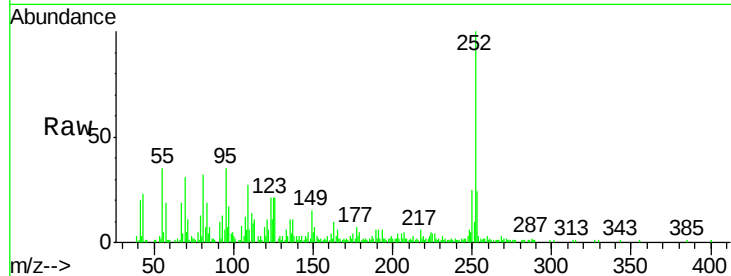




#88
Benzo(k)fluoranthene
Concen: 5.89 ng m
RT: 14.82 min Scan# 1158
Delta R.T. -0.05 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

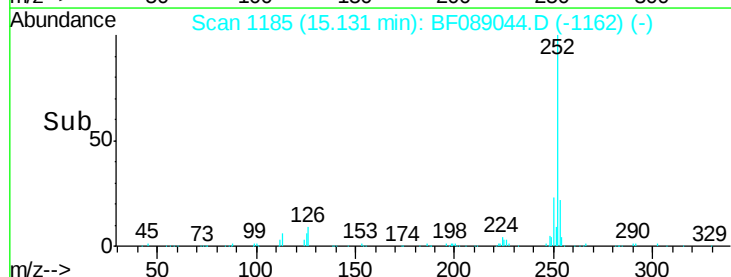
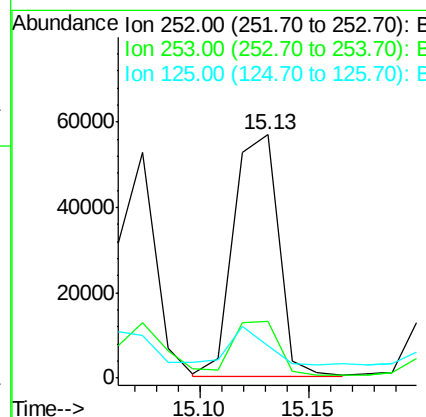
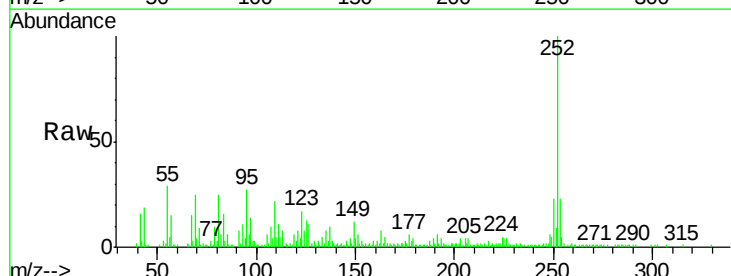
Instrument :
BNA_F
ClientSampleId :
LSS-SS-SS01(0-2in)DL

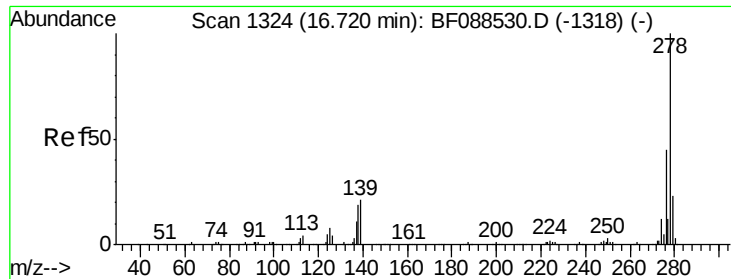
Tot Ion:252 Resp: 26404
Ion Ratio Lower Upper
252 100
253 24.0 18.0 27.0
125 20.7 11.2 16.8#



#89
Benzo(a)pyrene
Concen: 18.46 ng
RT: 15.13 min Scan# 1185
Delta R.T. -0.03 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

Tgt Ion:252 Resp: 80465
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 13.1 12.5 18.7

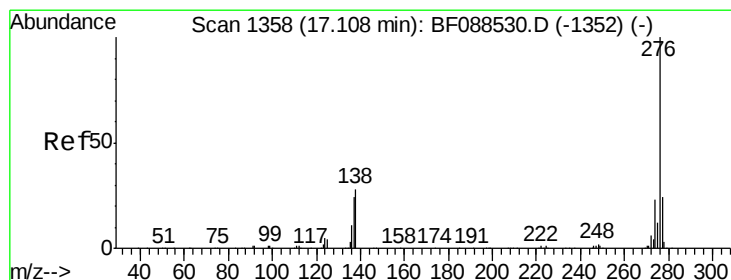
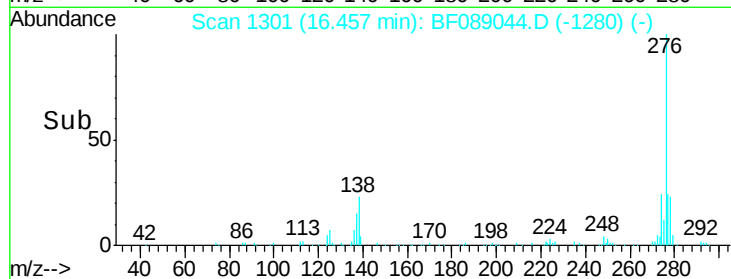
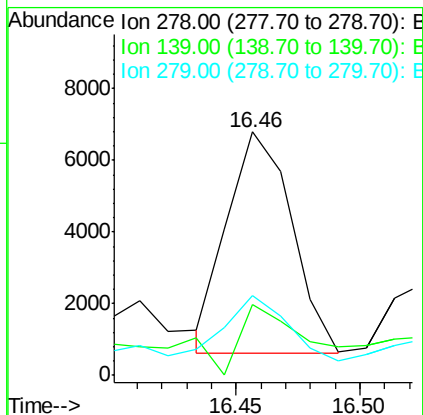
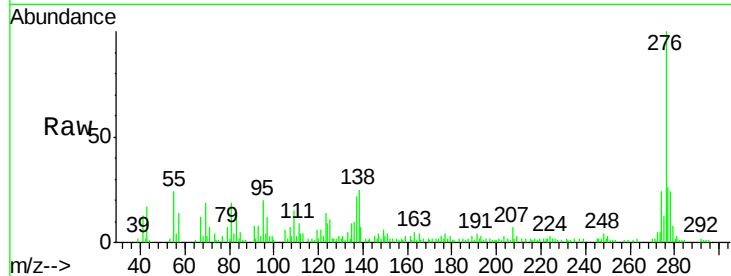




#90
Dibenzo(a,h)anthracene
Concen: 3.05 ng/mL
RT: 16.46 min Scan# 1301
Delta R.T. -0.06 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

Instrument :
BNA_F
ClientSampleId :
LSS-SS-SS01(0-2in)DL

Tot Ion:278 Resp: 11116
Ion Ratio Lower Upper
278 100
139 29.1 15.7 23.5#
279 32.8 19.4 29.2#



#91
Benzo(g,h,i)perylene
Concen: 13.89 ng/mL
RT: 16.83 min Scan# 1334
Delta R.T. -0.06 min
Lab File: BF089044.D
Acq: 16 Jul 2016 6:32

Tgt Ion:276 Resp: 52304
Ion Ratio Lower Upper
276 100
277 24.0 18.9 28.3
138 29.4 21.4 32.2

