

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
 Data File : BF096880.D
 Acq On : 19 Jul 2017 20:00
 Operator : SJ/JU
 Sample : I4244-01 20X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENNSYLVANIA-ANALYTICAL

Quant Time: Jul 20 15:28:51 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	81742	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	251267	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	108082	20.00	ng	0.00
63) Phenanthrene-d10	11.11	188	163890	20.00	ng	0.00
75) Chrysene-d12	13.72	240	155466	20.00	ng	-0.01
86) Perylene-d12	15.09	264	145082	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.19	112	25657	4.72	ng	-0.01
7) Phenol-d6	6.23	99	32946	5.05	ng	-0.02
23) Nitrobenzene-d5	7.15	82	38310	9.44	ng	-0.02
41) 2,4,6-Tribromophenol	10.42	330	3665	3.97	ng	0.00
44) 2-Fluorobiphenyl	8.96	172	33433	4.89	ng	0.00
78) Terphenyl-d14	12.68	244	25576	2.85	ng	-0.01

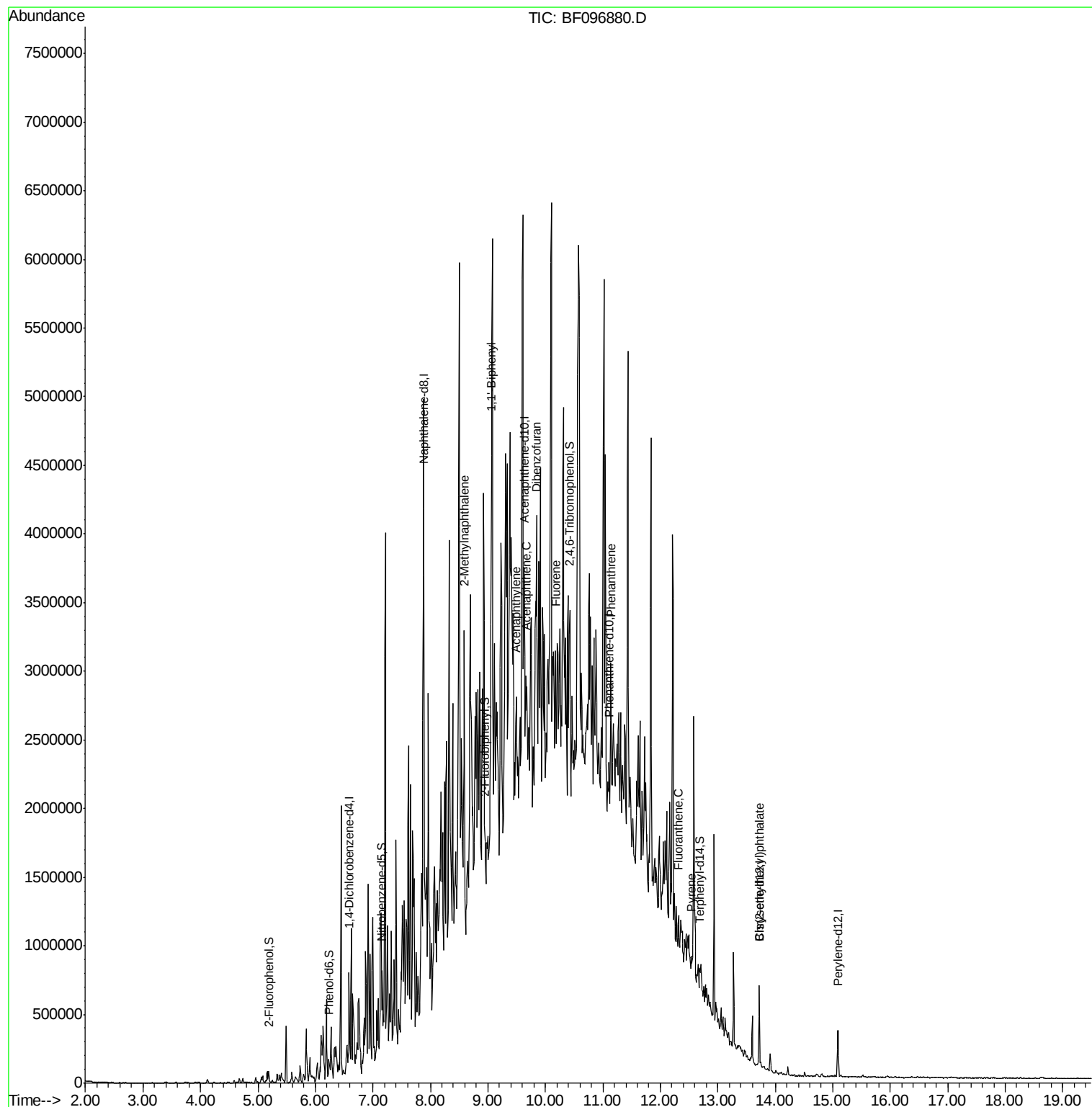
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) 2-Methylnaphthalene	8.60	142	417283	54.988	ng	100
45) 1,1'-Biphenyl	9.06	154	165236	17.826	ng	99
48) Acenaphthylene	9.50	152	38007	3.495	ng	# 1
51) Acenaphthene	9.66	154	74857	11.652	ng	# 87
54) Dibenzofuran	9.84	168	55516	6.166	ng	# 11
57) Fluorene	10.18	166	144521	21.723	ng	# 77
70) Phenanthrene	11.14	178	415407	46.616	ng	# 96
74) Fluoranthene	12.32	202	29071	3.408	ng	85
77) Pyrene	12.54	202	84126	5.962	ng	96
83) Bis(2-ethylhexyl)phthalate	13.72	149	23373	2.863	ng	98

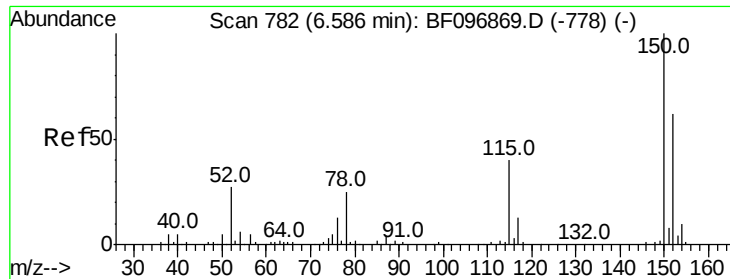
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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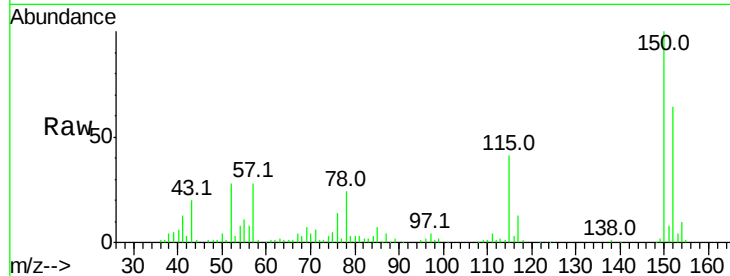


#1

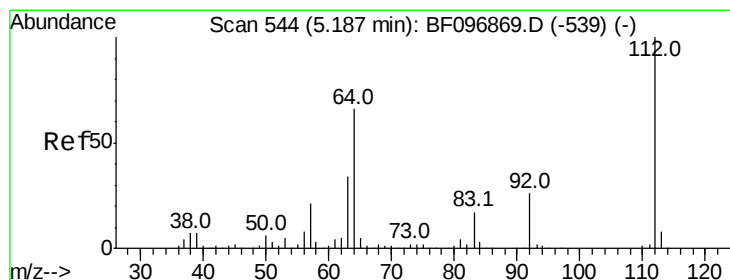
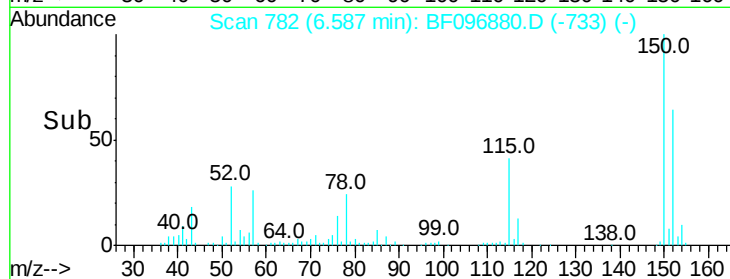
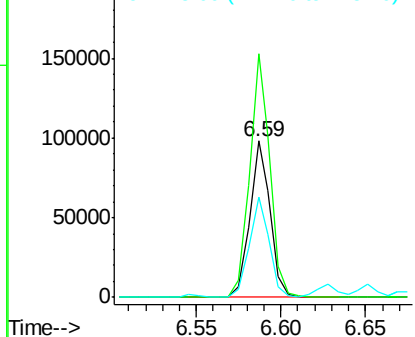
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.59 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF096880.D
Acq: 19 Jul 2017 20:00

Instrument :
BNA_F
ClientSampleId :
PENNSYLVANIA-ANALYTICAL

Tot Ion:152 Resp: 81742
Ion Ratio Lower Upper
152 100
150 155.9 126.2 189.2
115 64.3 52.2 78.2



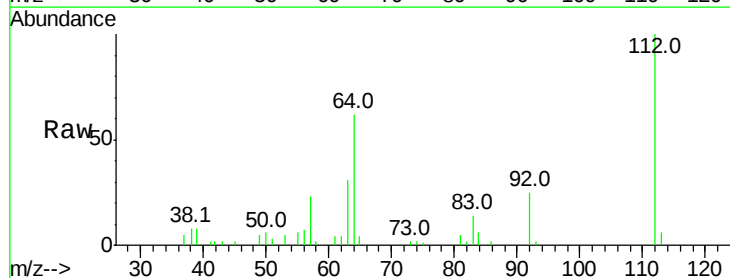
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



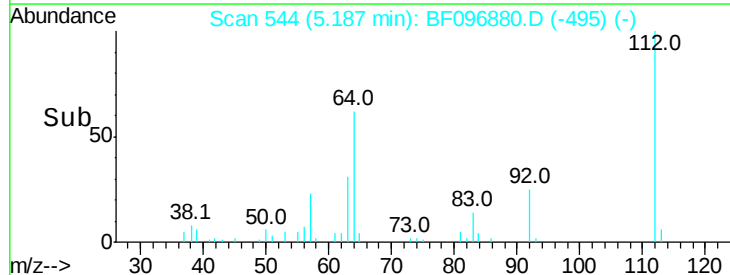
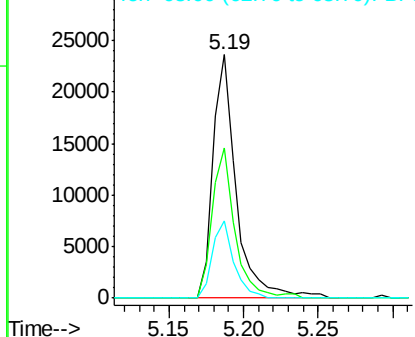
#5

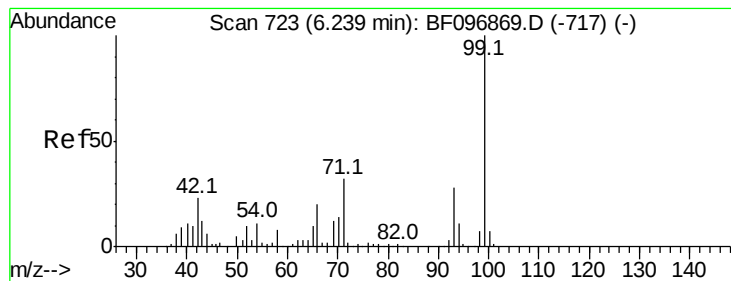
2-Fluorophenol
Concen: 4.719 ng
RT: 5.19 min Scan# 544
Delta R.T. -0.01 min
Lab File: BF096880.D
Acq: 19 Jul 2017 20:00

Tgt Ion:112 Resp: 25657
Ion Ratio Lower Upper
112 100
64 61.9 46.0 69.0
63 31.5 23.4 35.0



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: 5.050 ng

RT: 6.23 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

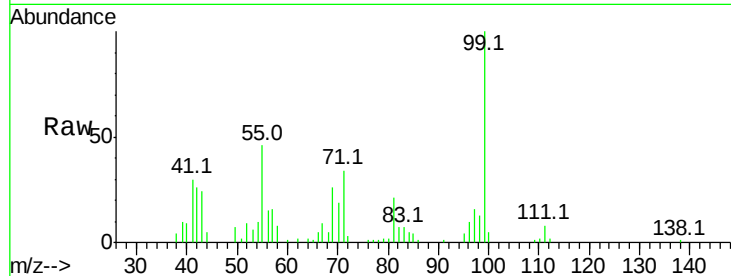
Tot Ion: 99 Resp: 32946

Ion Ratio Lower Upper

99 100

42 26.0 13.5 20.3#

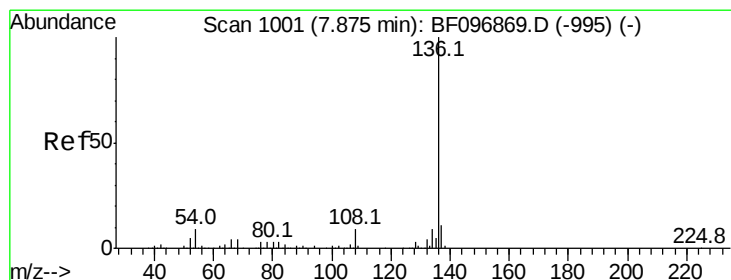
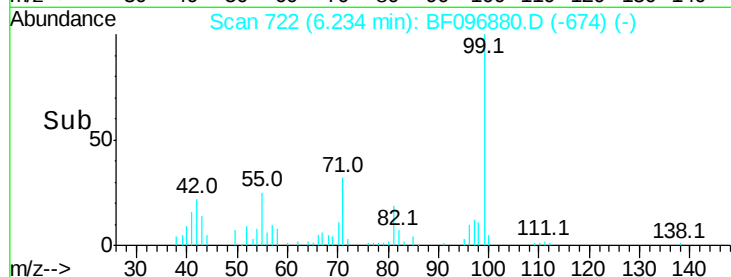
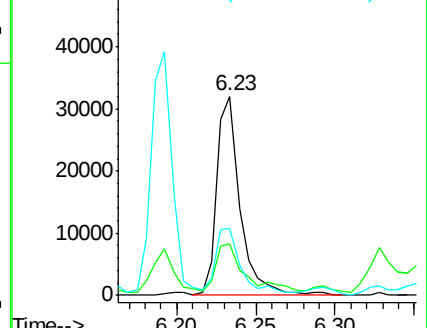
71 33.8 24.5 36.7



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: 20.000 ng

RT: 7.87 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Tgt Ion: 136 Resp: 251267

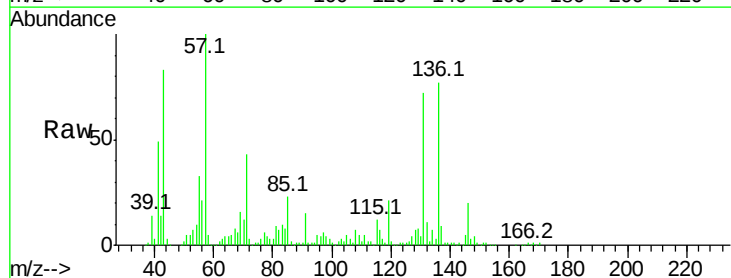
Ion Ratio Lower Upper

136 100

137 11.7 8.5 12.7

54 13.4 4.9 7.3#

68 8.5 4.1 6.1#

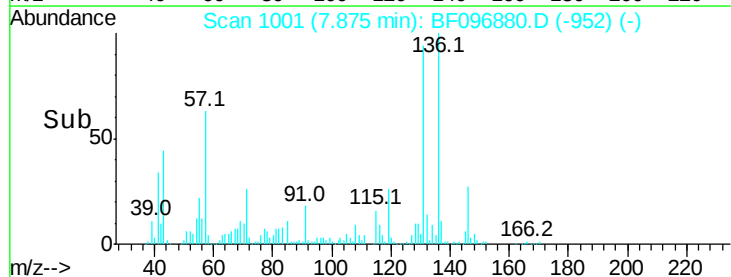
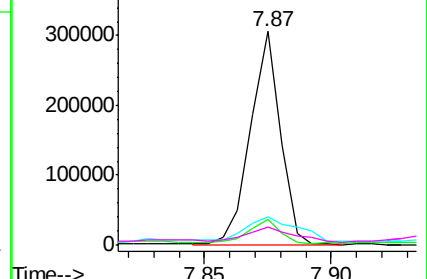


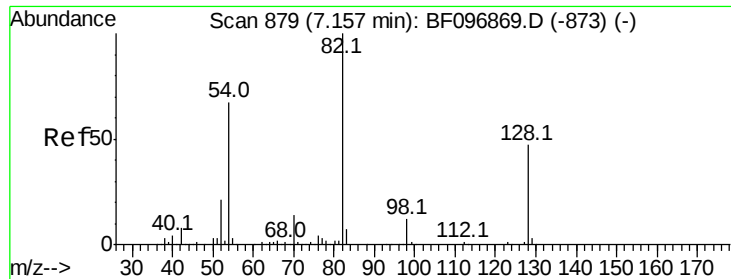
Abundance Ion 136.00 (135.70 to 136.70): E

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

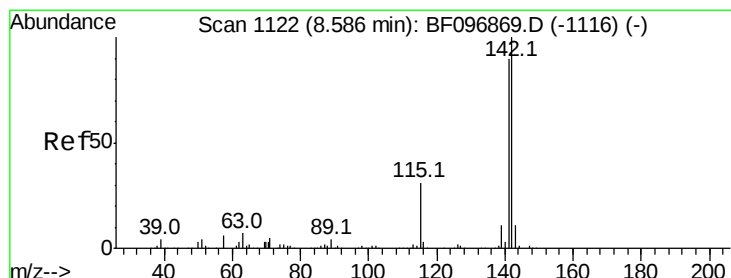
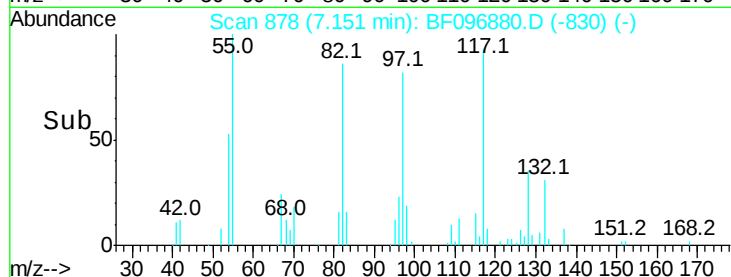
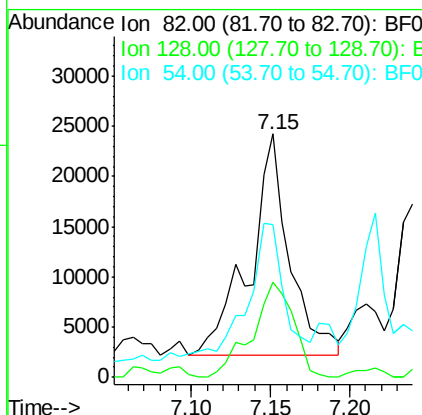
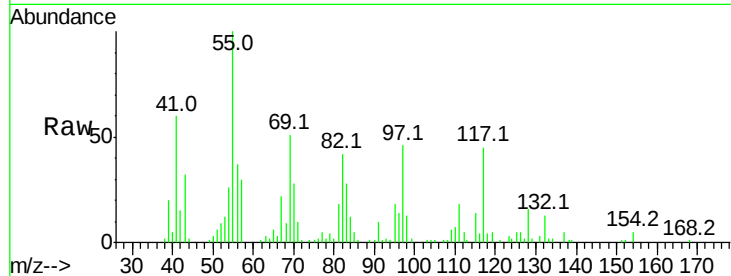




#23
 Nitrobenzene-d5
 Concen: 9.444 ng
 RT: 7.15 min Scan# 878
 Delta R.T. -0.02 min
 Lab File: BF096880.D
 Acq: 19 Jul 2017 20:00

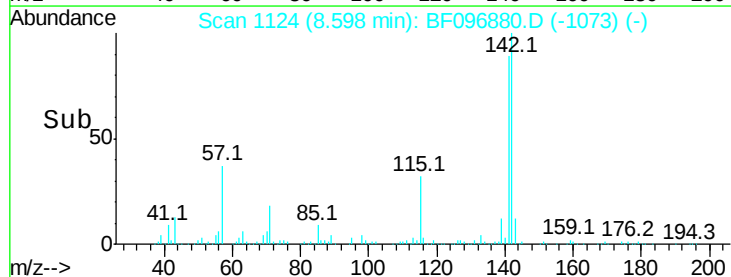
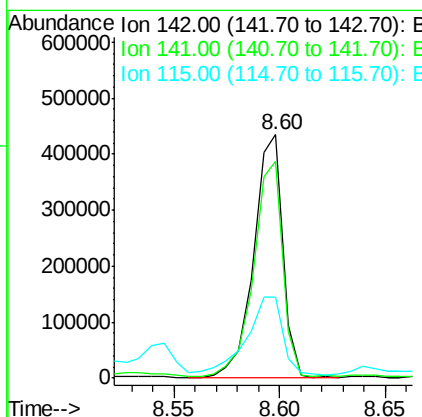
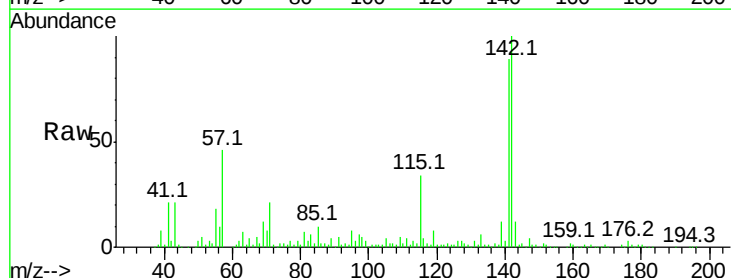
Instrument :
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 PENNSYLVANIA-ANALYTICAL

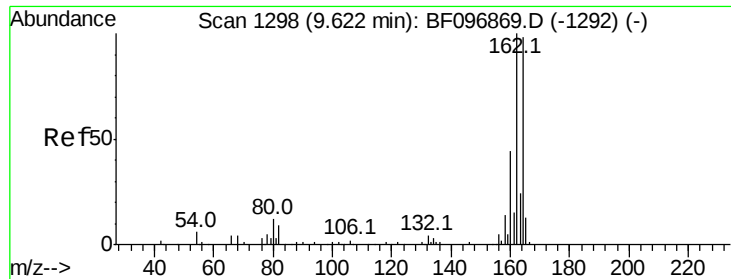
Tot Ion: 82 Resp: 38310
 Ion Ratio Lower Upper
 82 100
 128 38.8 34.0 51.0
 54 62.8 42.2 63.2



#37
 2-Methylnaphthalene
 Concen: 54.988 ng
 RT: 8.60 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: BF096880.D
 Acq: 19 Jul 2017 20:00

Tgt Ion: 142 Resp: 417283
 Ion Ratio Lower Upper
 142 100
 141 89.0 71.3 106.9
 115 33.5 27.1 40.7





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.63 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

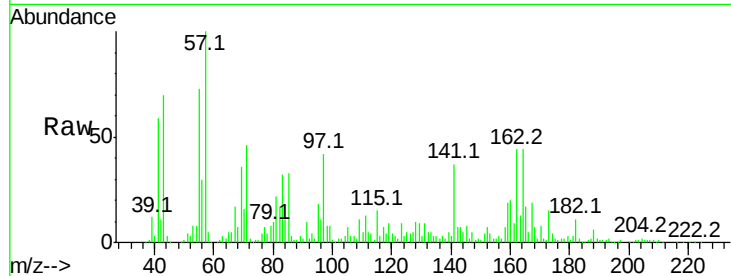
Tot Ion:164 Resp: 108082

Ion Ratio Lower Upper

164 100

162 100.4 82.6 123.8

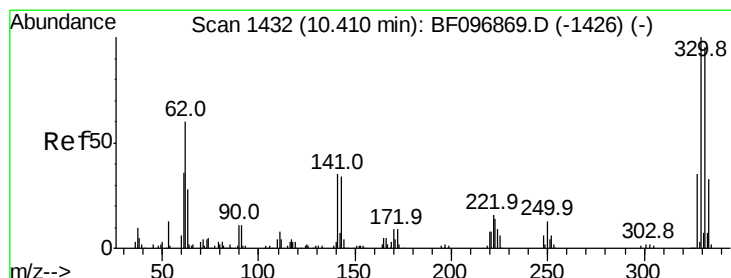
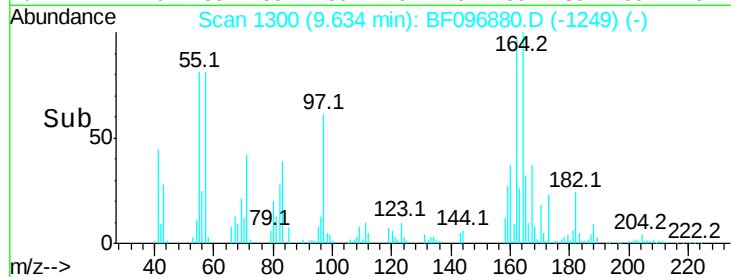
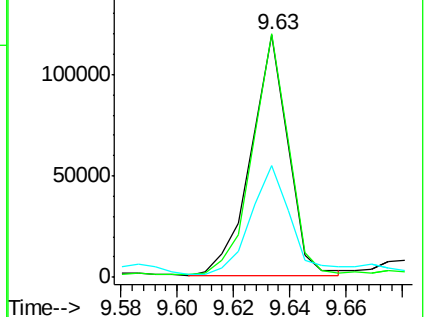
160 46.0 36.2 54.2



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: 3.973 ng

RT: 10.42 min Scan# 1434

Delta R.T. 0.00 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

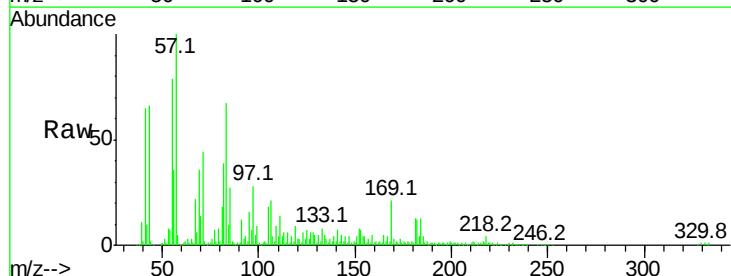
Tgt Ion:330 Resp: 3665

Ion Ratio Lower Upper

330 100

332 107.8 76.6 115.0

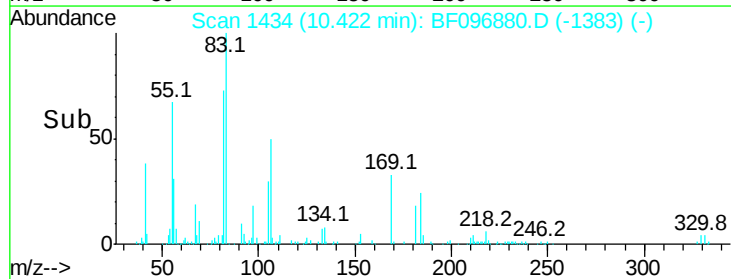
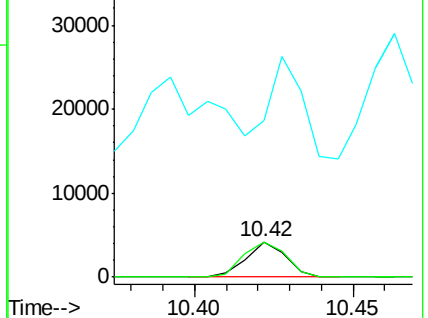
141 240.9 31.4 47.2#

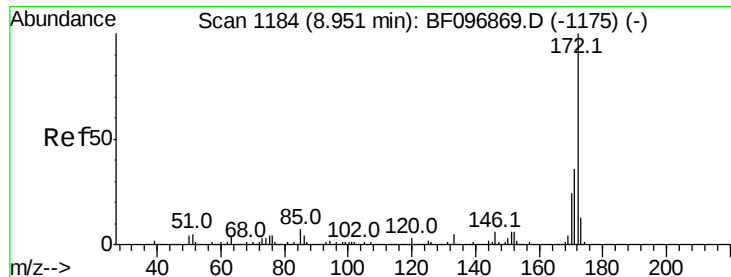


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

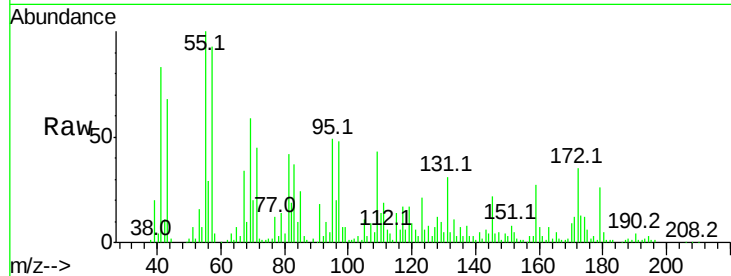




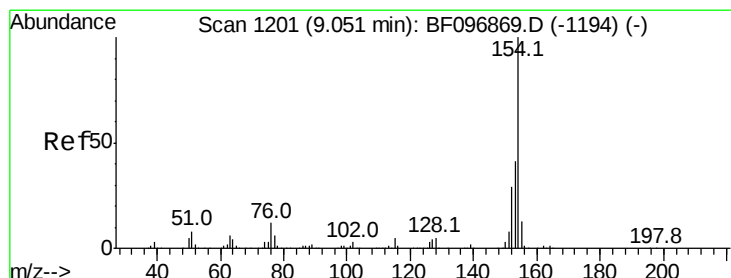
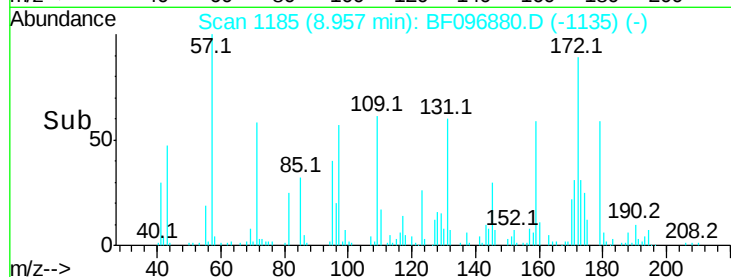
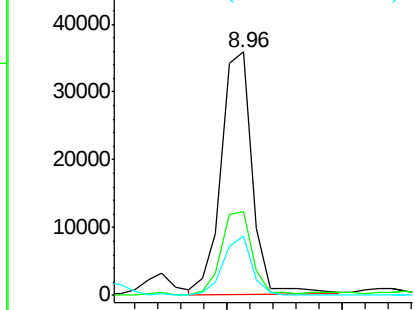
#44
2-Fluorobiphenyl
Concen: 4.887 ng
RT: 8.96 min Scan# 1185
Delta R.T. -0.01 min
Lab File: BF096880.D
Acq: 19 Jul 2017 20:00

Instrument :
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PENNSYLVANIA-ANALYTICAL

Tot Ion:172 Resp: 33433
Ion Ratio Lower Upper
172 100
171 34.3 29.6 44.4
170 24.4 19.8 29.8

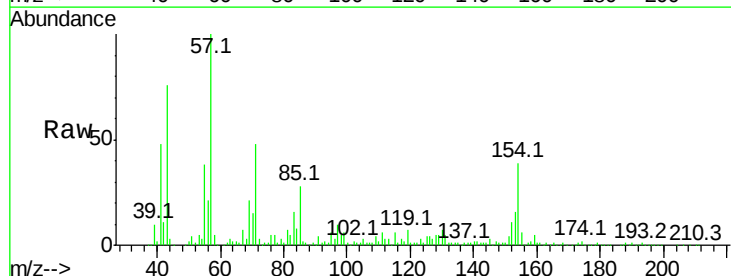


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

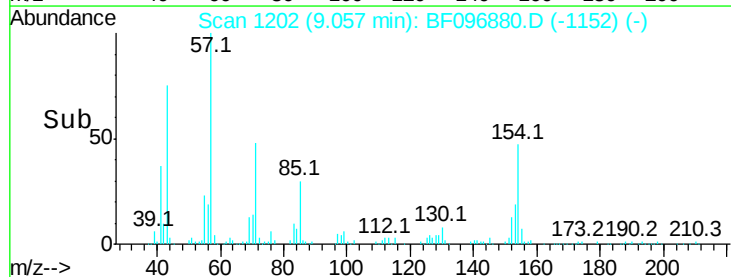
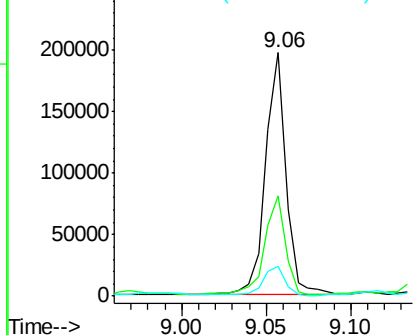


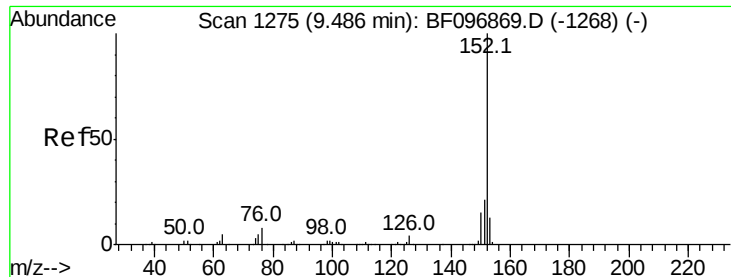
#45
1,1'-Biphenyl
Concen: 17.826 ng
RT: 9.06 min Scan# 1202
Delta R.T. -0.01 min
Lab File: BF096880.D
Acq: 19 Jul 2017 20:00

Tgt Ion:154 Resp: 165236
Ion Ratio Lower Upper
154 100
153 41.3 21.2 61.2
76 12.4 0.0 29.9



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





#48

Acenaphthylene

Concen: 3.495 ng

RT: 9.50 min Scan# 1277

Delta R.T. 0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

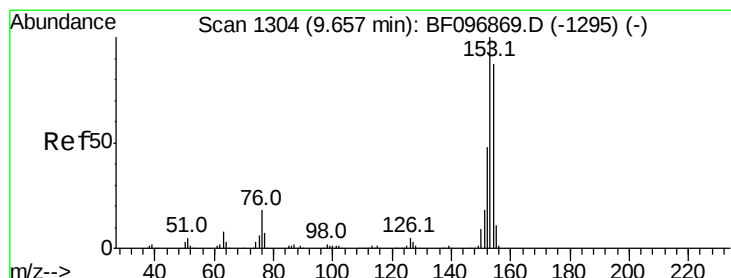
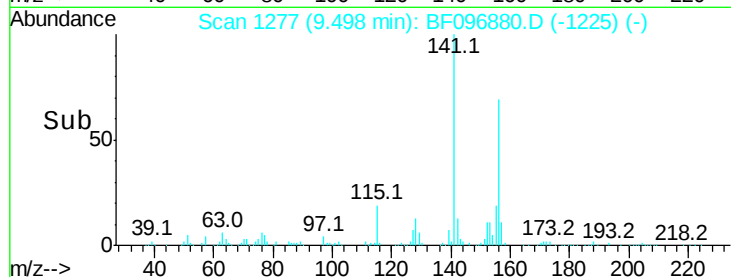
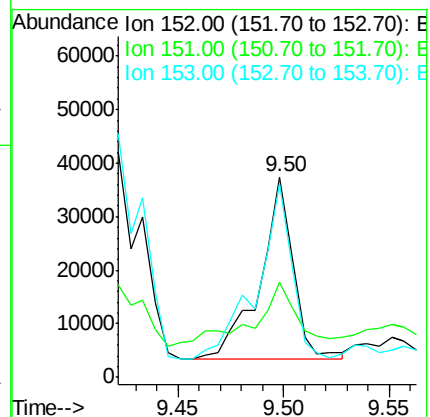
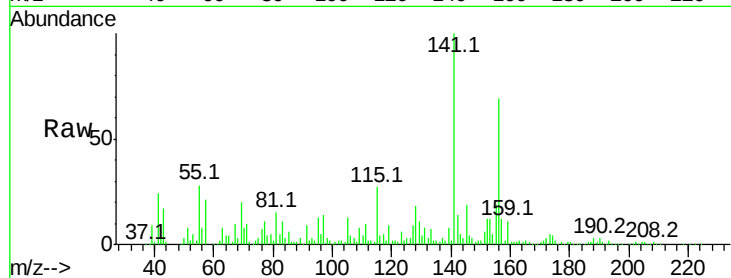
Tot Ion:152 Resp: 38007

Ion Ratio Lower Upper

152 100

151 47.2 16.8 25.2#

153 96.9 10.8 16.2#



#51

Acenaphthene

Concen: 11.652 ng

RT: 9.66 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

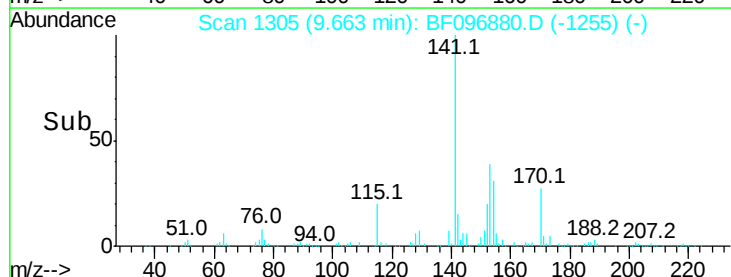
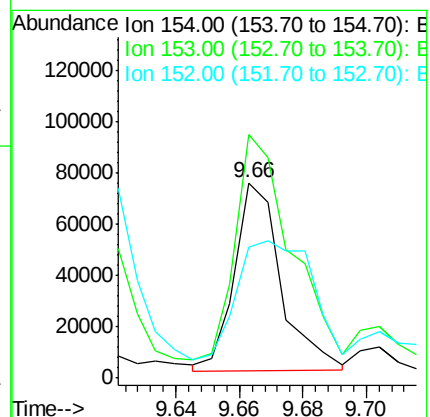
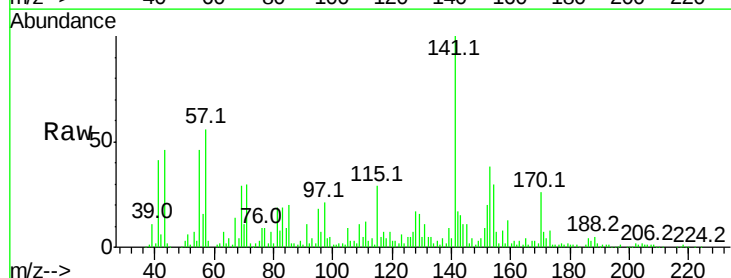
Tgt Ion:154 Resp: 74857

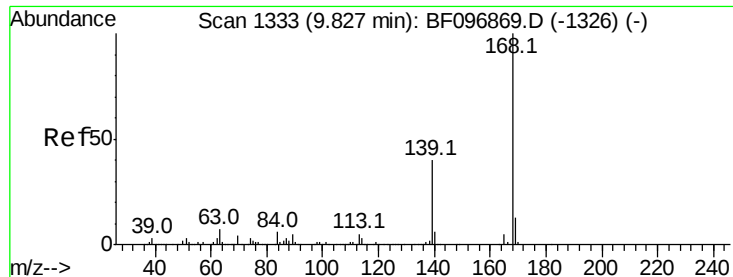
Ion Ratio Lower Upper

154 100

153 124.9 90.5 135.7

152 67.0 43.6 65.4#





#54

Dibenzofuran

Concen: 6.166 ng

RT: 9.84 min Scan# 1335

Delta R.T. 0.00 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

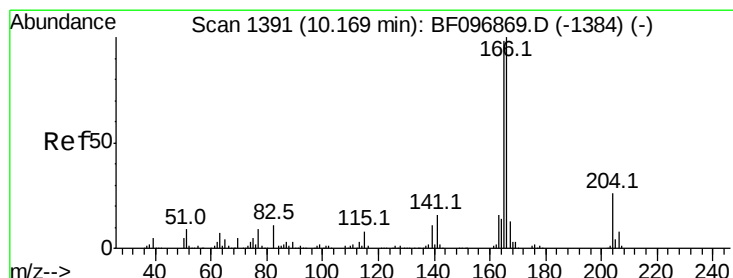
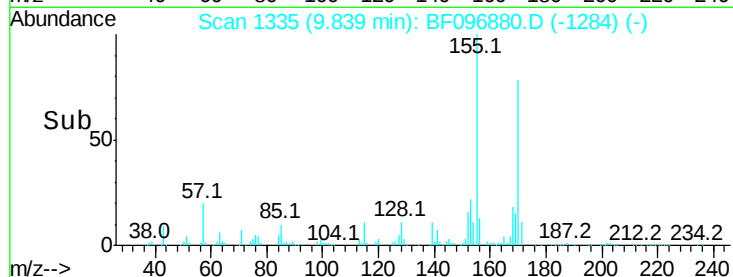
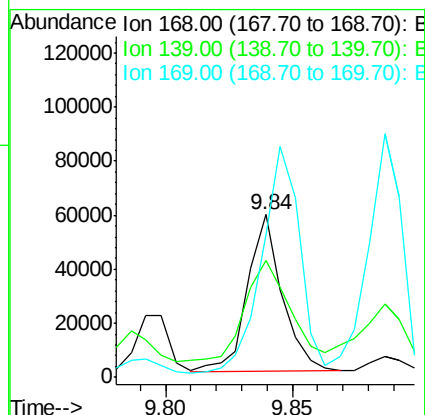
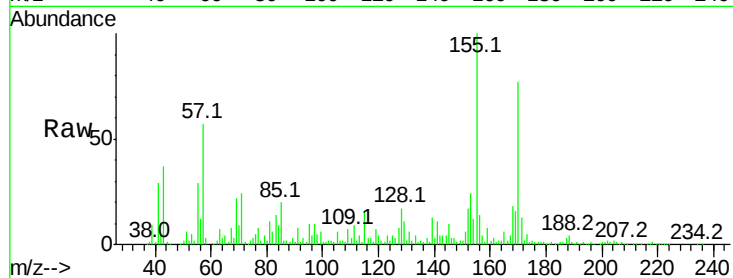
Tot Ion:168 Resp: 55516

Ion Ratio Lower Upper

168 100

139 71.9 30.6 45.8#

169 87.1 10.8 16.2#



#57

Fluorene

Concen: 21.723 ng

RT: 10.18 min Scan# 1393

Delta R.T. 0.00 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

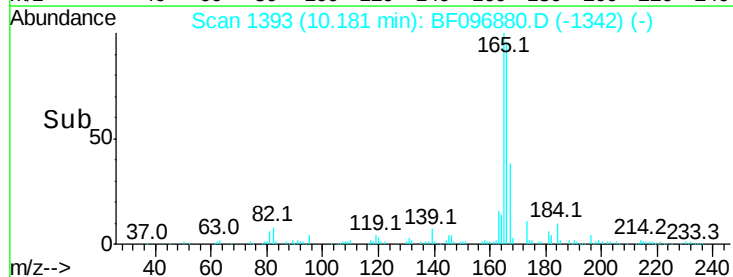
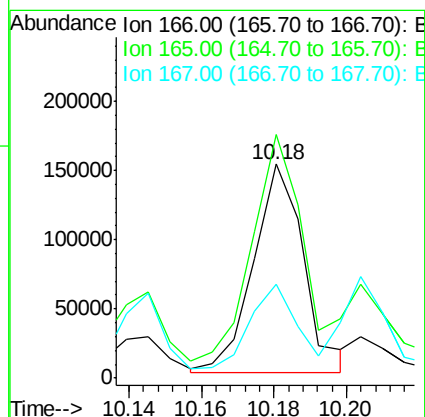
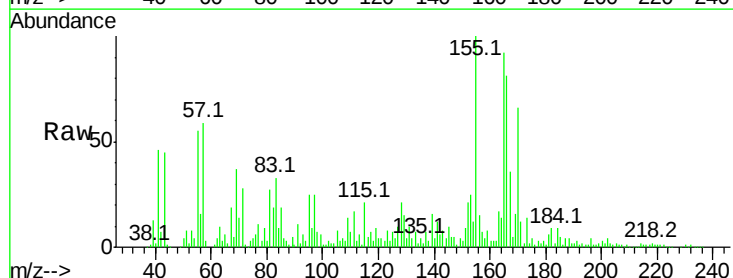
Tgt Ion:166 Resp: 144521

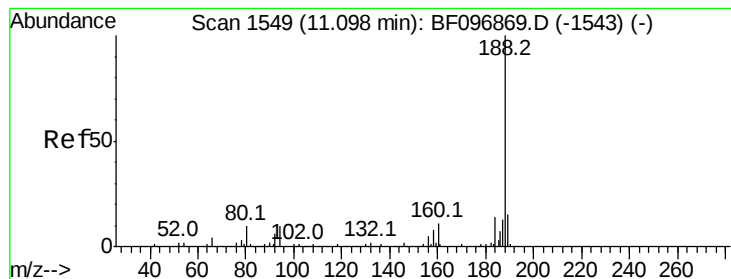
Ion Ratio Lower Upper

166 100

165 113.9 78.8 118.2

167 44.2 10.6 16.0#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.11 min Scan# 1551

Delta R.T. 0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

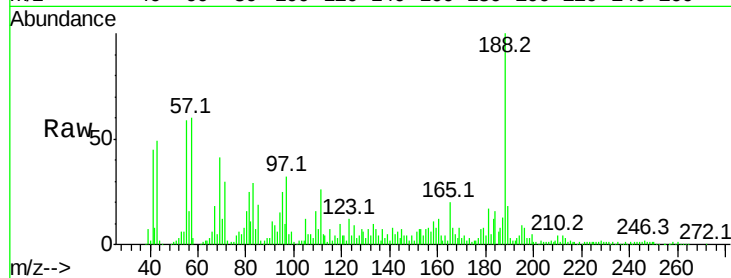
Tot Ion:188 Resp: 163890

Ion Ratio Lower Upper

188 100

94 14.5 9.4 14.2#

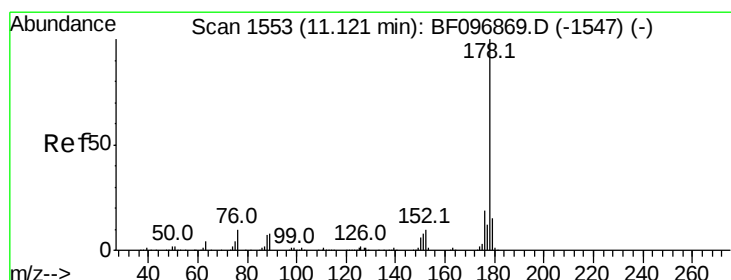
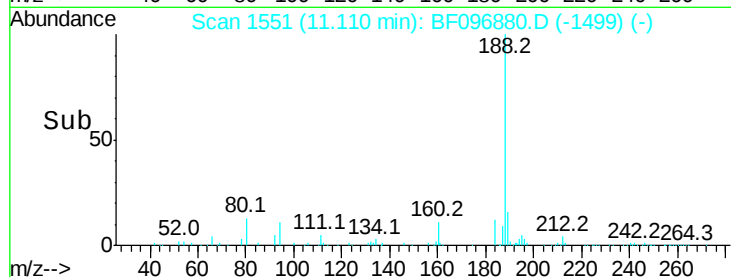
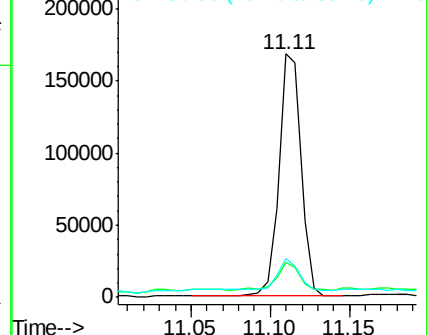
80 15.7 10.2 15.2#



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: 46.616 ng

RT: 11.14 min Scan# 1556

Delta R.T. 0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

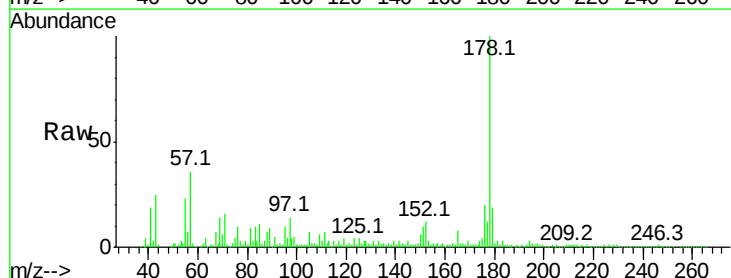
Tgt Ion:178 Resp: 415407

Ion Ratio Lower Upper

178 100

176 19.9 16.2 24.4

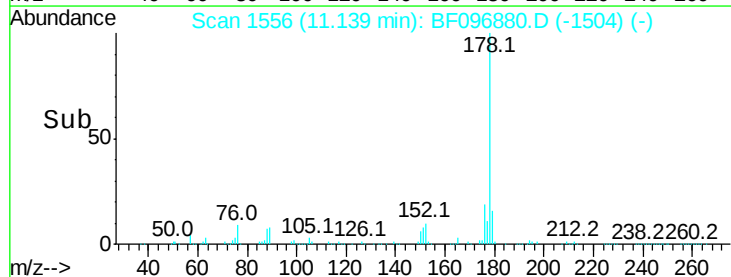
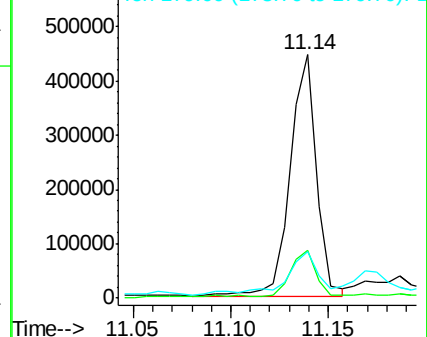
179 19.0 12.6 19.0#

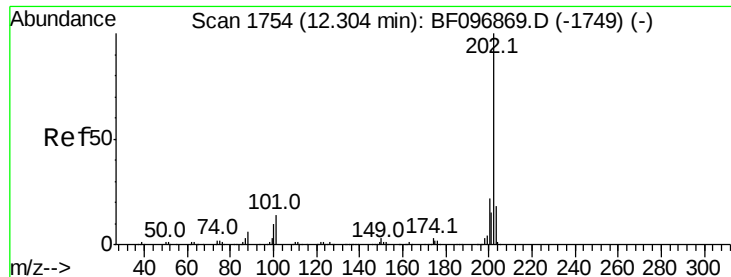


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 3.408 ng

RT: 12.32 min Scan# 1756

Delta R.T. 0.00 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

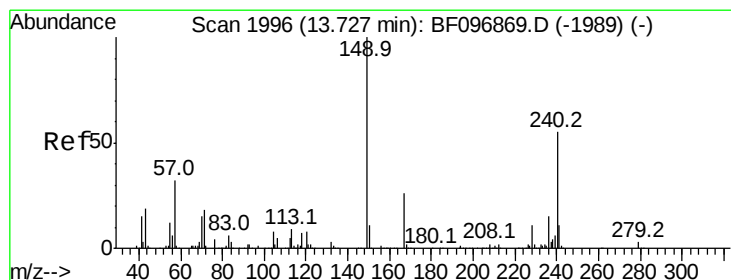
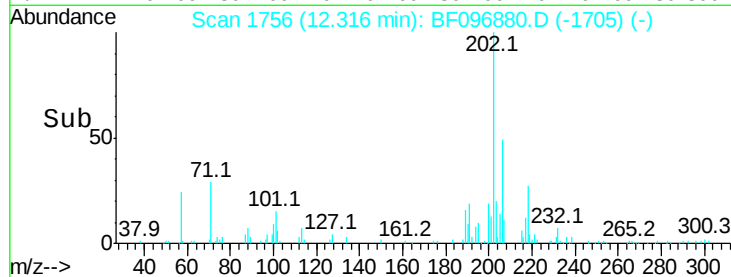
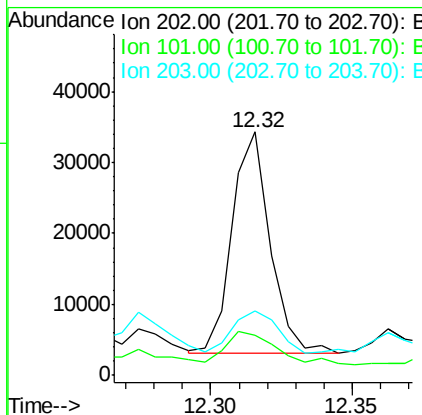
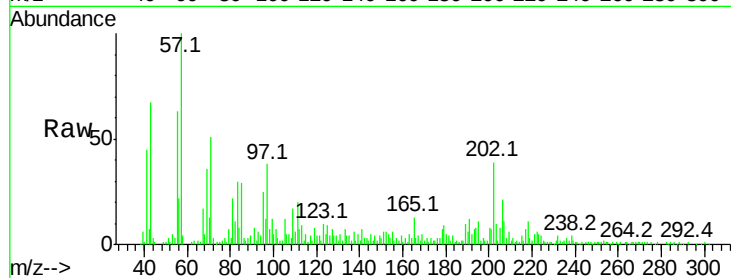
Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

Tot Ion:	202	Resp:	29071
Ion	Ratio	Lower	Upper
202	100		
101	16.6	0.0	33.2
203	26.7	0.0	38.1



#75

Chrysene-d12

Concen: 20.000 ng

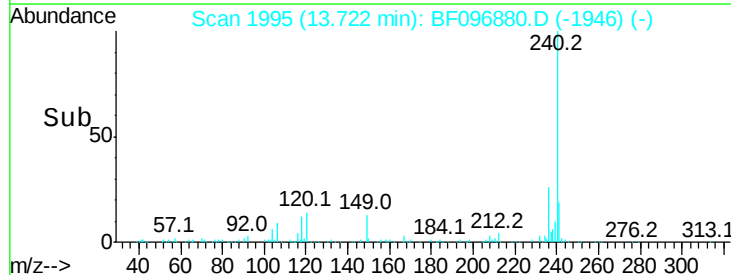
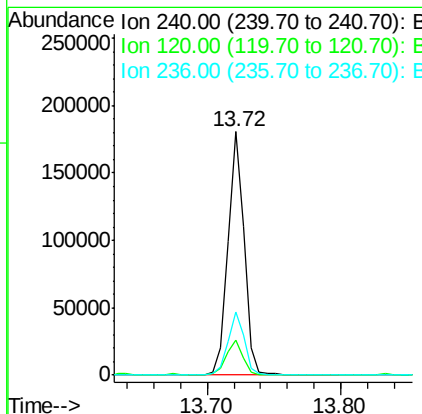
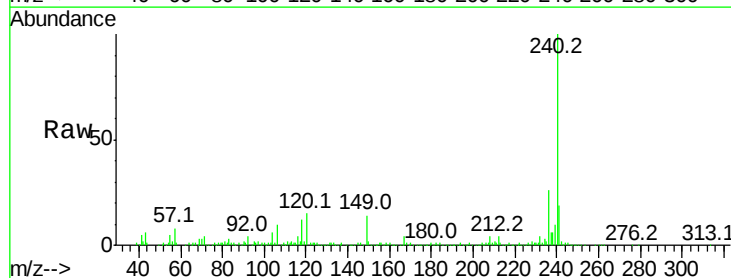
RT: 13.72 min Scan# 1995

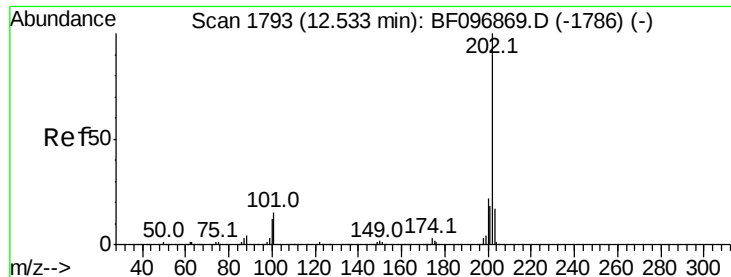
Delta R.T. -0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Tgt Ion:	240	Resp:	155466
Ion	Ratio	Lower	Upper
240	100		
120	14.6	5.8	8.8#
236	25.9	20.5	30.7





#77

Pvrene

Concen: 5.962 ng

RT: 12.54 min Scan# 1794

Delta R.T. 0.00 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

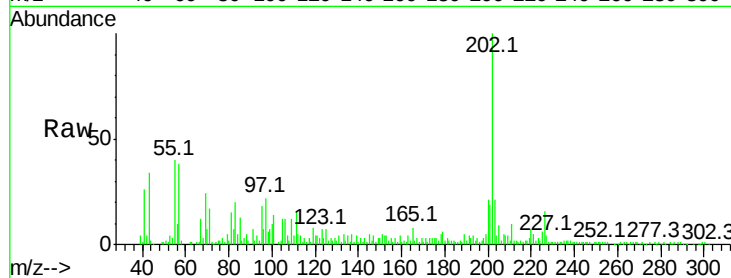
Tot Ion:202 Resp: 84126

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

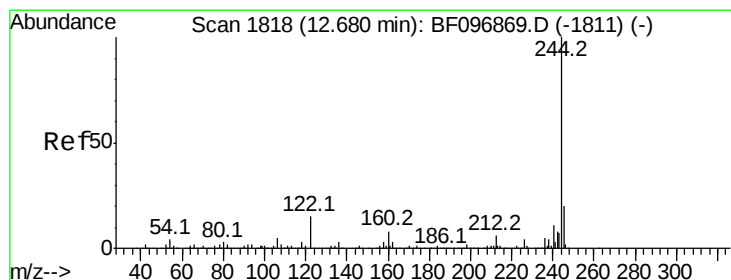
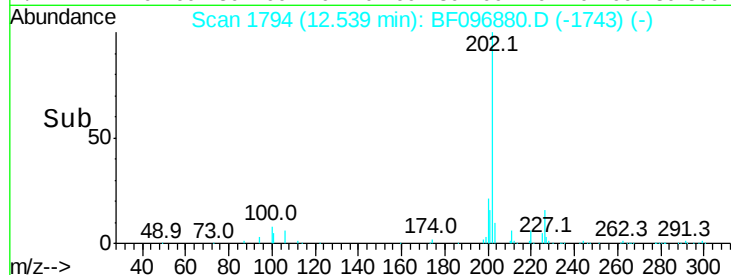
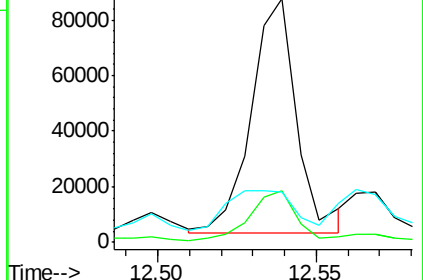
203 20.9 14.4 21.6



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: 2.853 ng

RT: 12.68 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

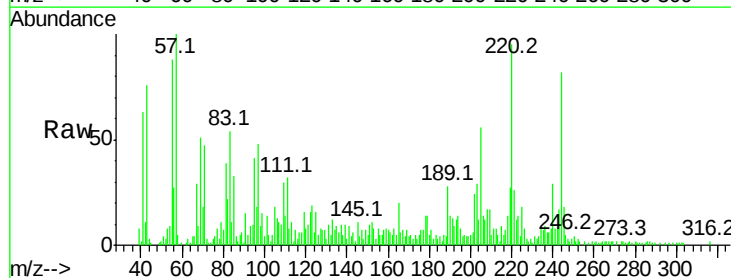
Tgt Ion:244 Resp: 25576

Ion Ratio Lower Upper

244 100

212 9.8 6.0 9.0#

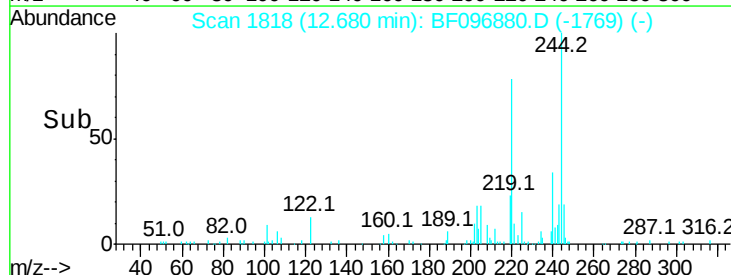
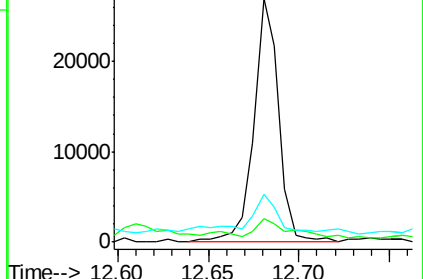
122 19.5 10.3 15.5#

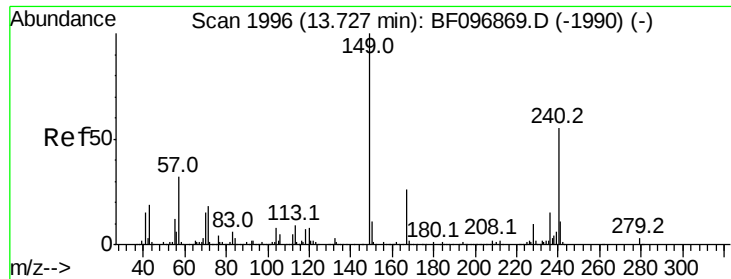


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.863 ng

RT: 13.72 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

Instrument :

BNA_F

ClientSampleId :

PENNSYLVANIA-ANALYTICAL

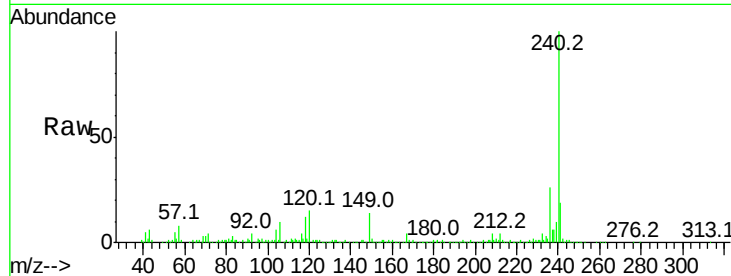
Tot Ion:149 Resp: 23373

Ion Ratio Lower Upper

149 100

167 27.1 21.0 31.4

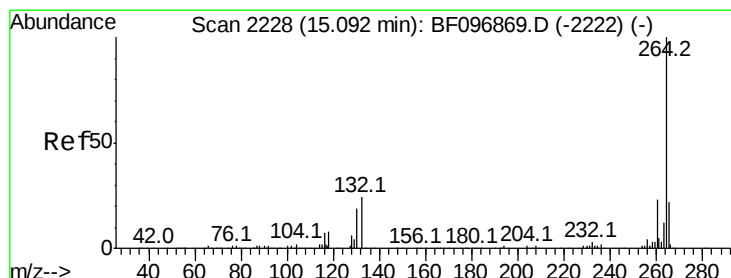
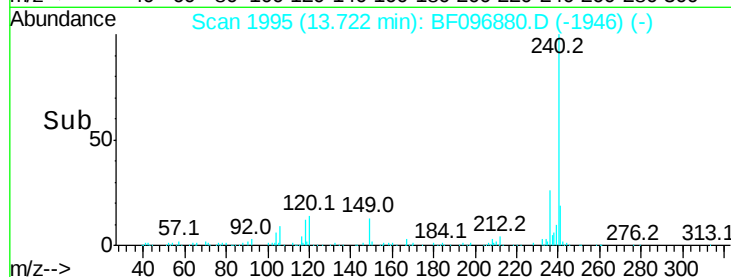
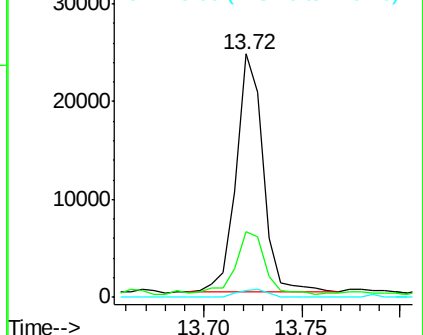
279 2.7 1.9 2.9



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.09 min Scan# 2228

Delta R.T. -0.01 min

Lab File: BF096880.D

Acq: 19 Jul 2017 20:00

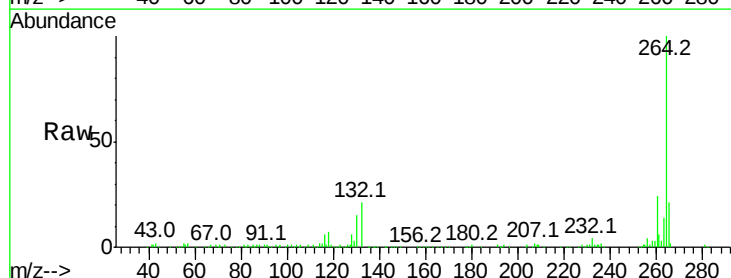
Tgt Ion:264 Resp: 145082

Ion Ratio Lower Upper

264 100

260 24.2 19.5 29.3

265 21.1 17.2 25.8



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

