

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051716\
 Data File : BF087136.D
 Acq On : 18 May 2016 7:36
 Operator : UM/SJ
 Sample : H2994-03RE
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)RE

Manual Integrations
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 5/18/2016 6:59:51 PM

Quant Time: May 18 08:06:24 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	144829	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	544118	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	222882	20.00	ng	-0.01
63) Phenanthrene-d10	11.11	188	334166	20.00	ng	-0.01
75) Chrysene-d12	13.75	240	267051	20.00	ng	-0.01
86) Perylene-d12	15.11	264	330919	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	990223	114.92	ng	-0.01
7) Phenol-d6	6.26	99	1179363	102.05	ng	-0.02
23) Nitrobenzene-d5	7.16	82	762467	69.84	ng	-0.02
41) 2,4,6-Tribromophenol	10.42	330	243052	98.68	ng	-0.02
44) 2-Fluorobiphenyl	8.96	172	1166651	86.69	ng	-0.02
78) Terphenyl-d14	12.70	244	877153	74.30	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	7.90	128	189398	7.12	ng	98
37) 2-Methylnaphthalene	8.59	142	120157	7.07	ng	98
48) Acenaphthylene	9.50	152	429352	19.82	ng	99
49) Dimethylphthalate	9.36	163	91256	5.37	ng	99
54) Dibenzofuran	9.84	168	65272	3.73	ng	# 91
57) Fluorene	10.17	166	66626	4.74	ng	# 95
70) Phenanthrene	11.13	178	790673	43.63	ng	100
71) Anthracene	11.19	178	359899	19.63	ng	98
72) Carbazole	11.35	167	133493	7.97	ng	99
74) Fluoranthene	12.32	202	1614672	88.92	ng	98
77) Pyrene	12.55	202	1426450	73.94	ng	99
79) Butylbenzylphthalate	13.18	149	62099	7.62	ng	92
80) Benzo(a)anthracene	13.74	228	1070518	69.33	ng	# 90
82) Chrysene	13.77	228	964385m	64.55	ng	
83) Bis(2-ethylhexyl)phthalate	13.74	149	21591	2.18	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.35	276	500266	38.15	ng	# 90
87) Benzo(b)fluoranthene	14.74	252	1810057m	82.45	ng	
88) Benzo(k)fluoranthene	14.77	252	160590m	9.83	ng	
89) Benzo(a)pyrene	15.06	252	919756	50.12	ng	95
90) Dibenzo(a,h)anthracene	16.35	278	158175m	10.24	ng	
91) Benzo(g,h,i)perylene	16.73	276	381597	24.45	ng	# 93

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

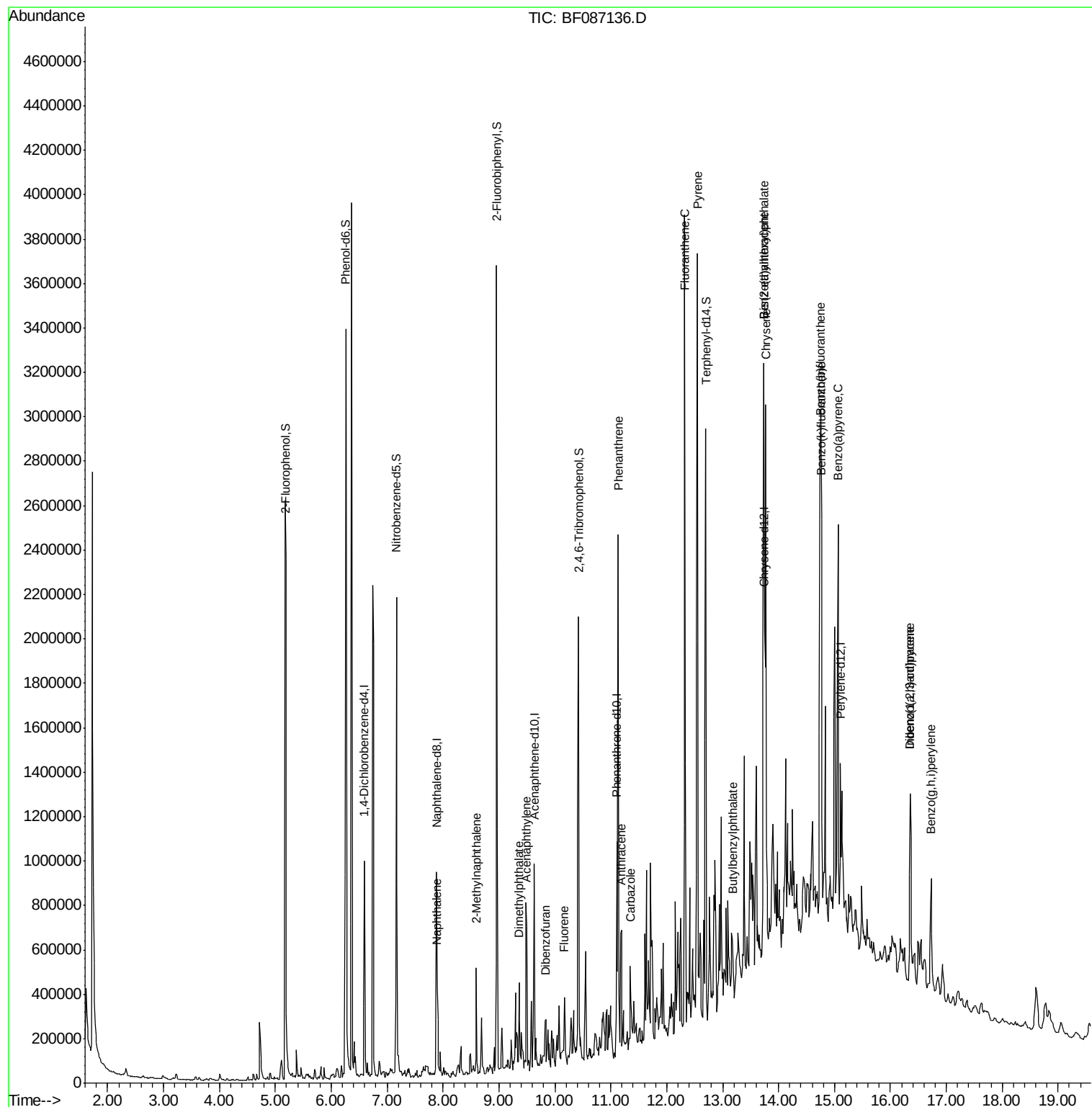
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051716\
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ALS Vial : 38 Sample Multiplier: 1

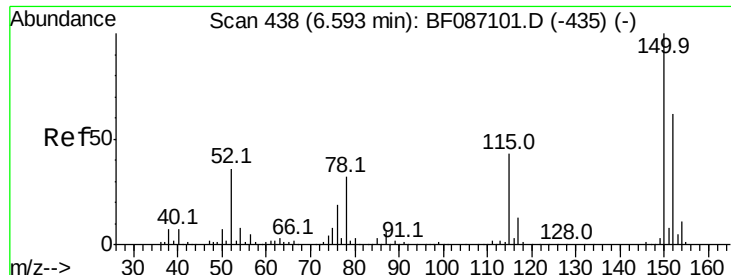
Instrument :
BNA_F
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PM-STA-1335-00(0-3)RE

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Quant Time: May 18 08:06:24 2016
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QLast Update : Tue May 17 16:55:01 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

ClientSampleId :

PM-STA-1335-00(0-3)RE

Tot Ion:152 Resp: 144829

Ion Ratio Lower Upper

152 100

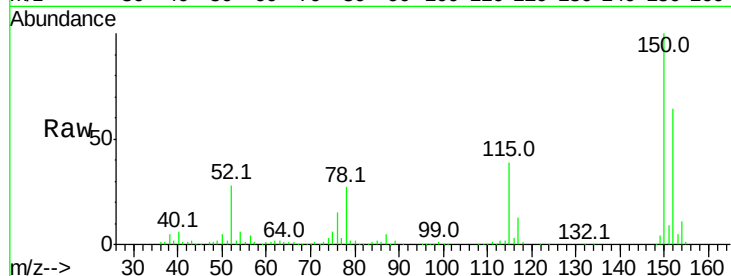
150 156.9 125.8 188.6

115 61.4 51.5 77.3

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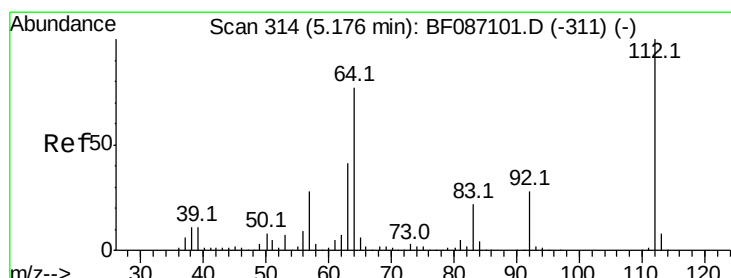
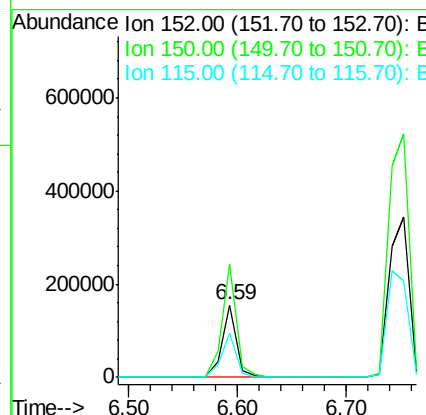
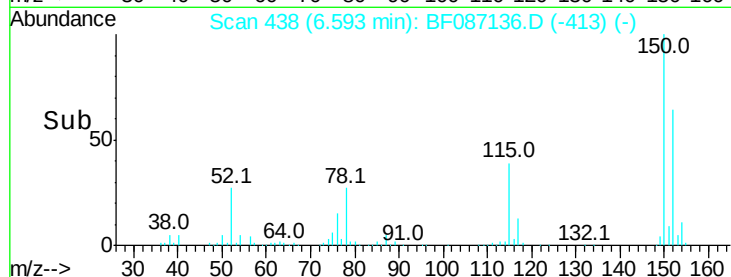
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 114.92 ng

RT: 5.19 min Scan# 315

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

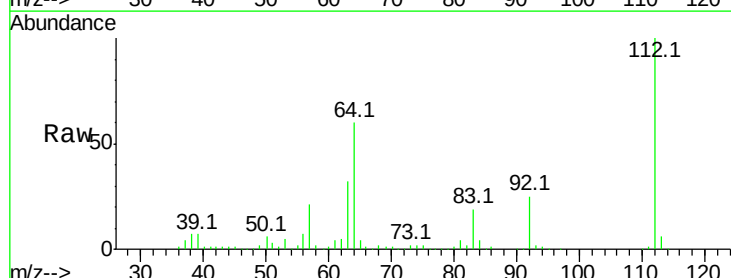
Tgt Ion:112 Resp: 990223

Ion Ratio Lower Upper

112 100

64 59.6 52.1 78.1

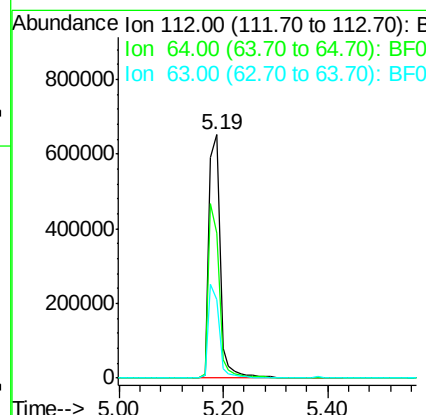
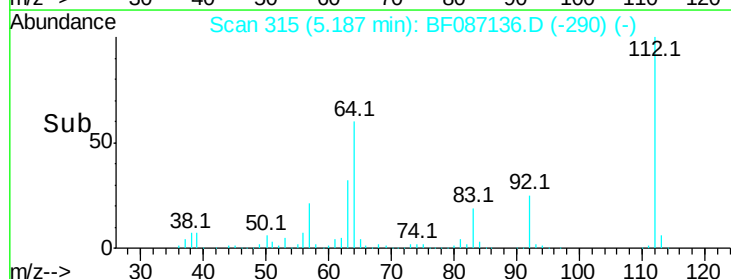
63 32.3 25.7 38.5

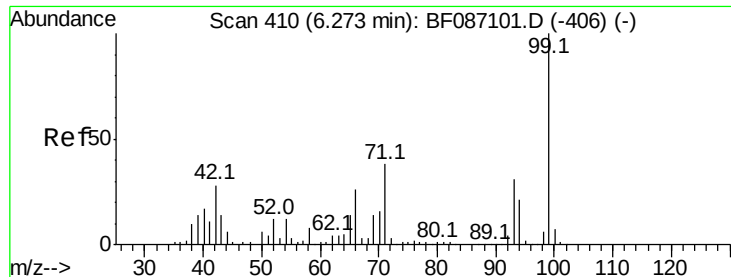


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 102.05 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.02 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

ClientSampleId :

PM-STA-1335-00(0-3)RE

Tot Ion: 99 Resp: 1179363

Ion Ratio Lower Upper

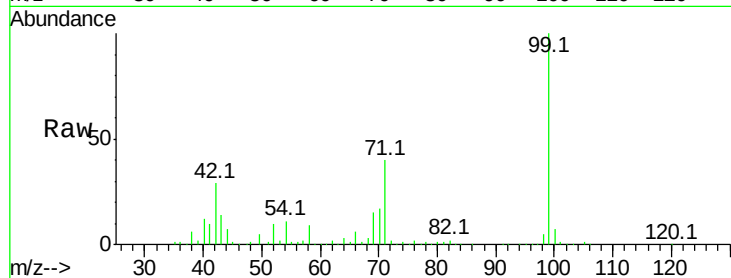
99 100

42 29.2 13.6 20.4#

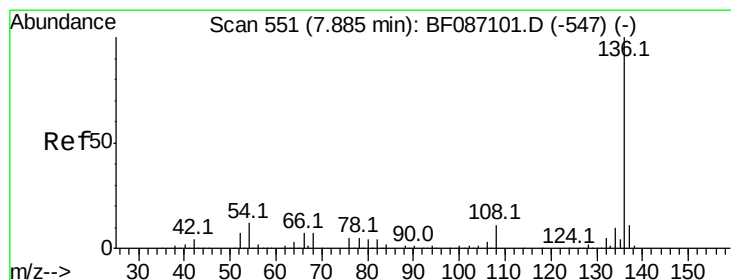
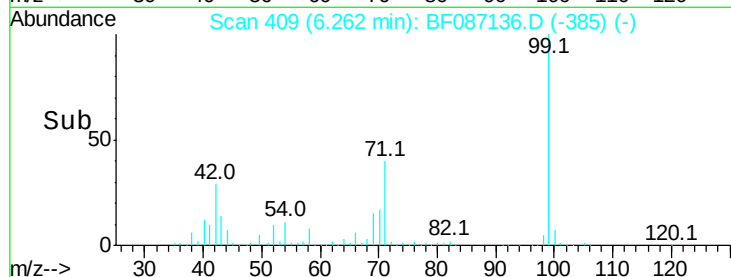
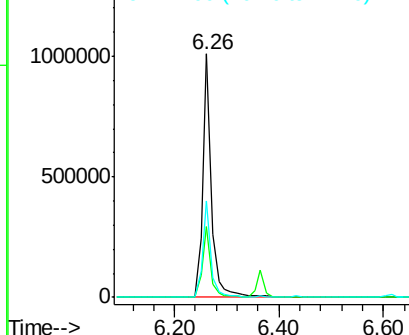
71 39.7 24.6 36.8#

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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: 7.88 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Tgt Ion: 136 Resp: 544118

Ion Ratio Lower Upper

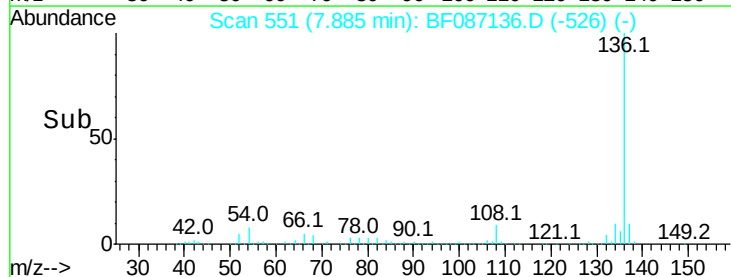
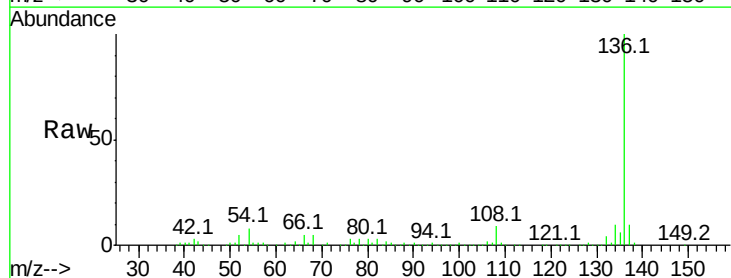
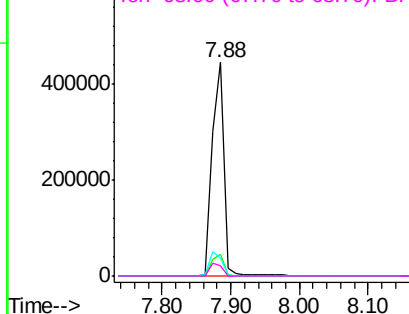
136 100

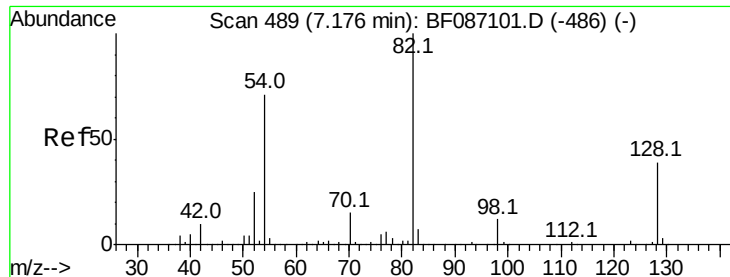
137 10.5 8.8 13.2

54 8.2 5.0 7.4#

68 4.5 4.4 6.6

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





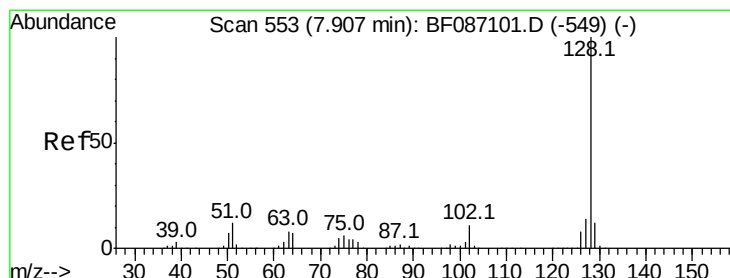
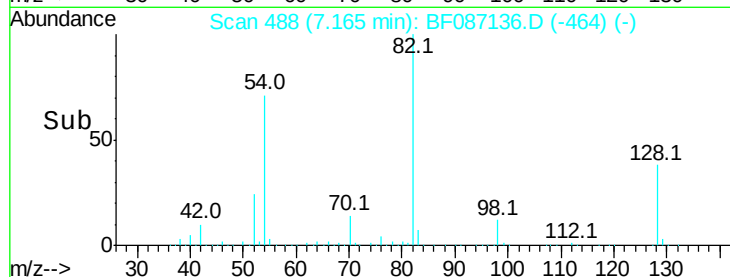
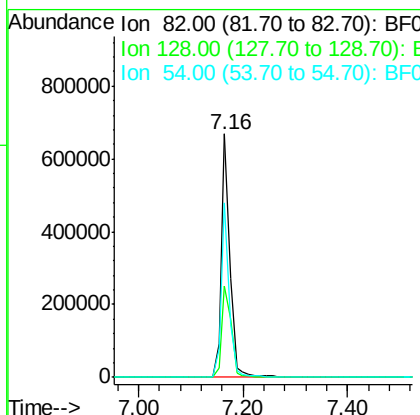
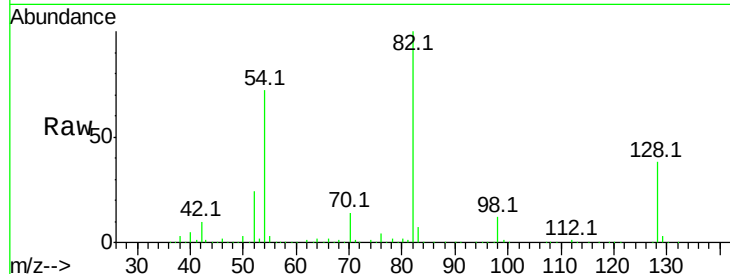
#23
 Nitrobenzene-d5
 Concen: 69.84 ng
 RT: 7.16 min Scan# 488
 Delta R.T. -0.02 min
 Lab File: BF087136.D
 Acq: 18 May 2016 7:36

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	37.7	40.6	61.0#	
54	71.5	38.1	57.1#	

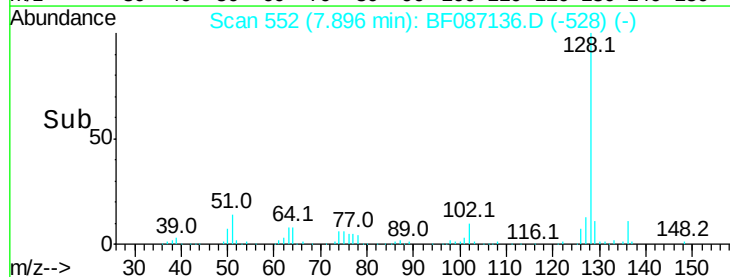
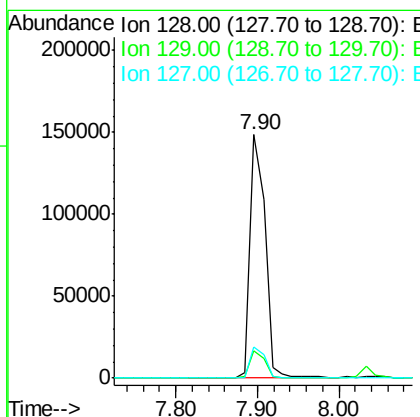
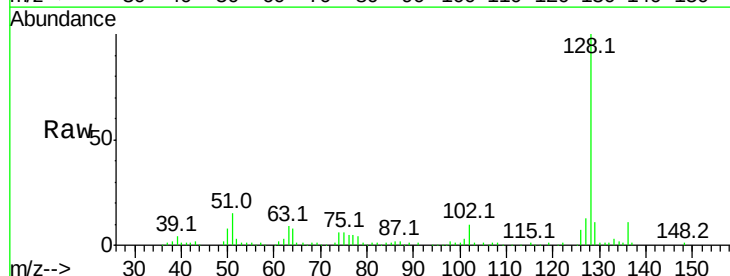
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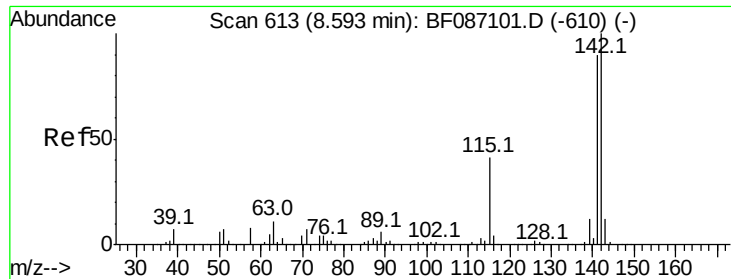
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#31
 Naphthalene
 Concen: 7.12 ng
 RT: 7.90 min Scan# 552
 Delta R.T. -0.02 min
 Lab File: BF087136.D
 Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.2	8.6	13.0	
127	12.8	10.8	16.2	





#37

2-Methylnaphthalene

Concen: 7.07 ng

RT: 8.59 min Scan# 613

Delta R.T. -0.02 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

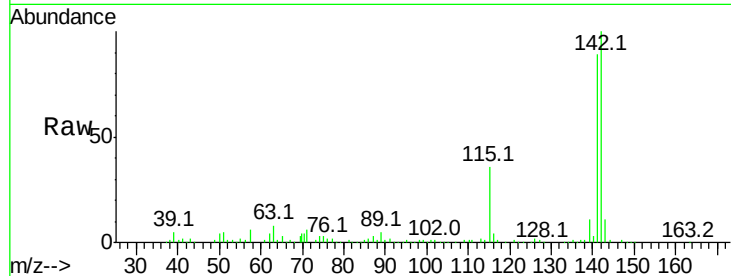
ClientSampleId :

PM-STA-1335-00(0-3)RE

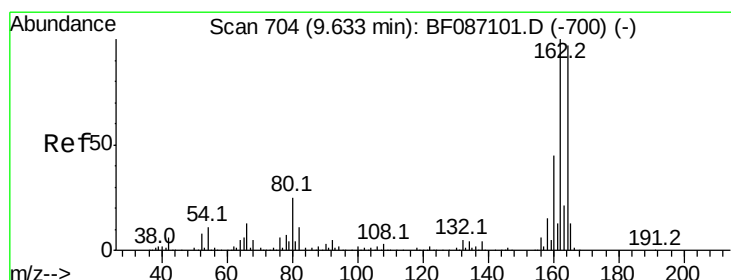
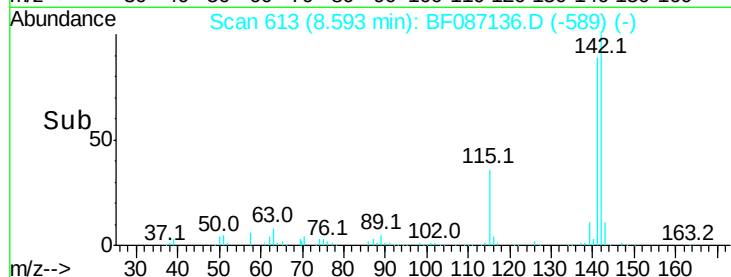
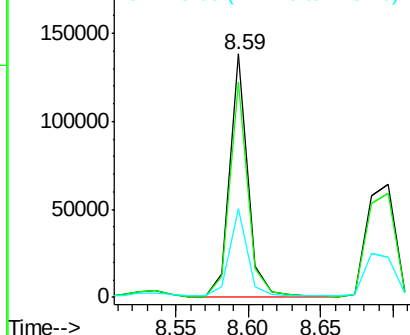
Tot Ion:	142	Resp:	120157
Ion Ratio	Lower	Upper	
142	100		
141	88.6	71.0	106.6
115	36.3	26.6	39.8

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Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

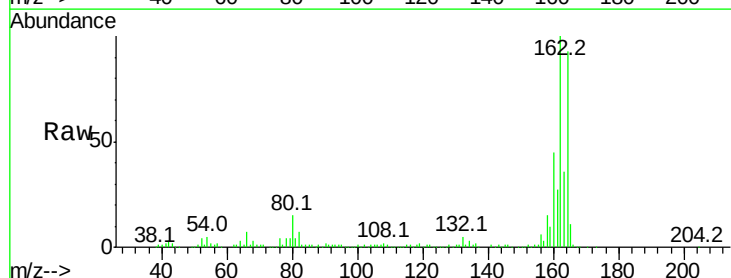
RT: 9.63 min Scan# 704

Delta R.T. -0.01 min

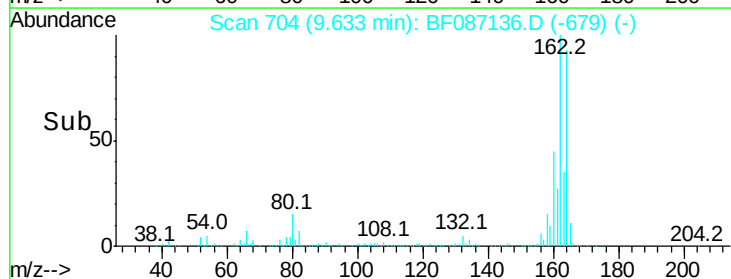
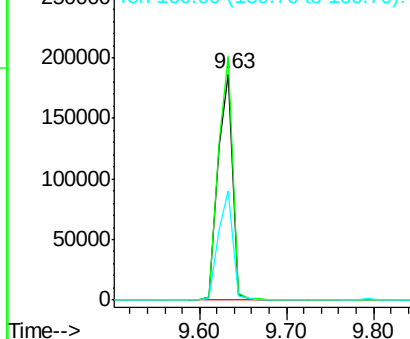
Lab File: BF087136.D

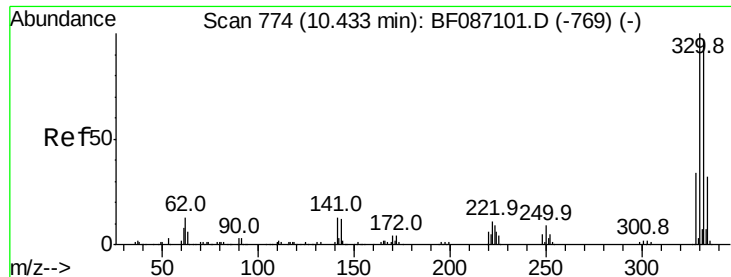
Acq: 18 May 2016 7:36

Tgt Ion:	164	Resp:	222882
Ion Ratio	Lower	Upper	
164	100		
162	107.6	82.8	124.2
160	48.5	36.9	55.3



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





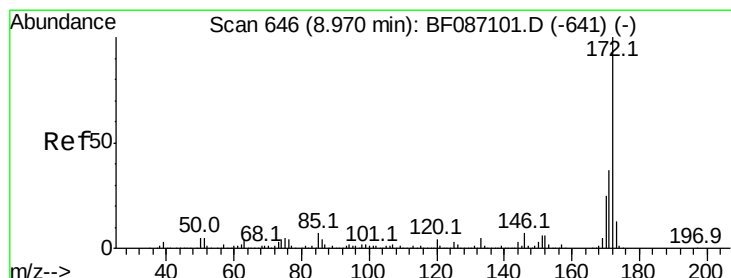
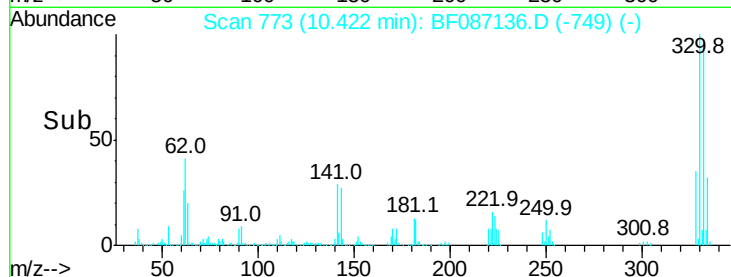
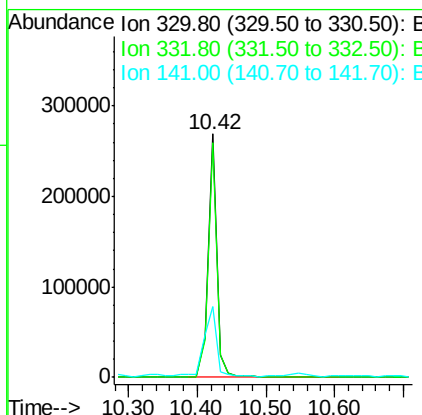
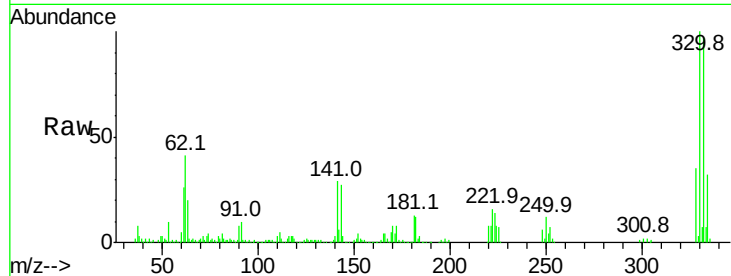
#41
 2,4,6-Tribromophenol
 Concen: 98.68 ng
 RT: 10.42 min Scan# 773
 Delta R.T. -0.02 min
 Lab File: BF087136.D
 Acq: 18 May 2016 7:36

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Resp	Lower	Upper
330	100	243052		
332	96.4	79.0	118.4	
141	40.4	31.2	46.8	

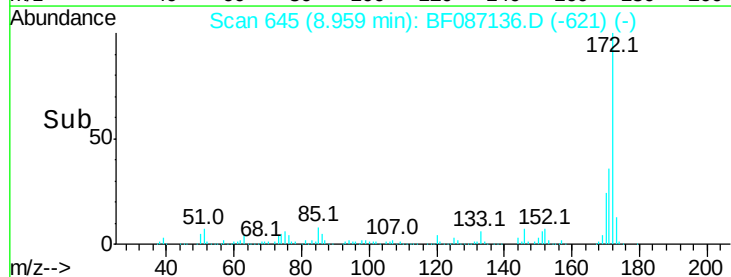
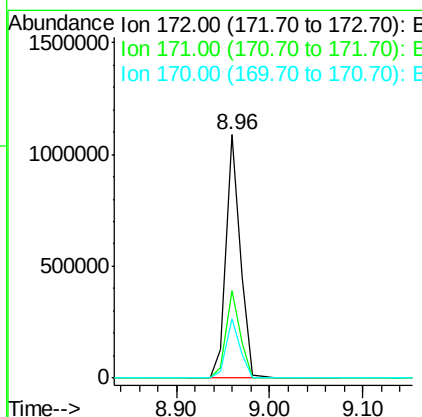
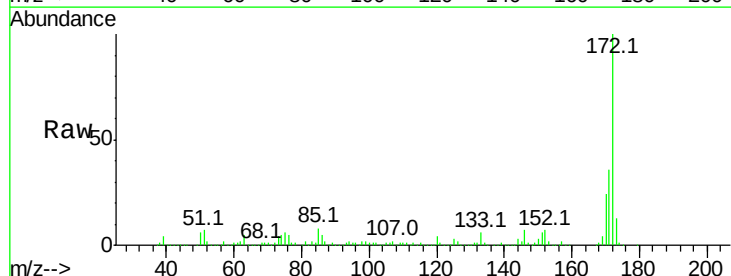
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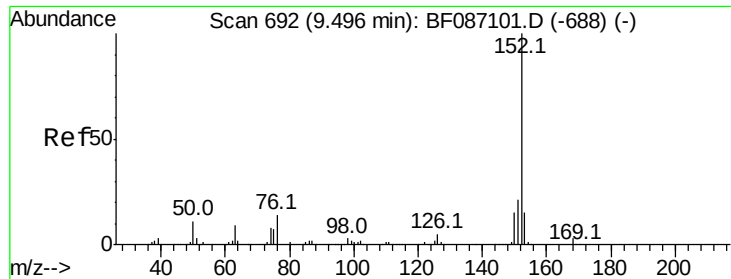
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#44
 2-Fluorobiphenyl
 Concen: 86.69 ng
 RT: 8.96 min Scan# 645
 Delta R.T. -0.02 min
 Lab File: BF087136.D
 Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1166651		
171	36.2	29.0	43.6	
170	24.2	19.8	29.8	





#48

Acenaphthylene

Concen: 19.82 ng

RT: 9.50 min Scan# 692

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

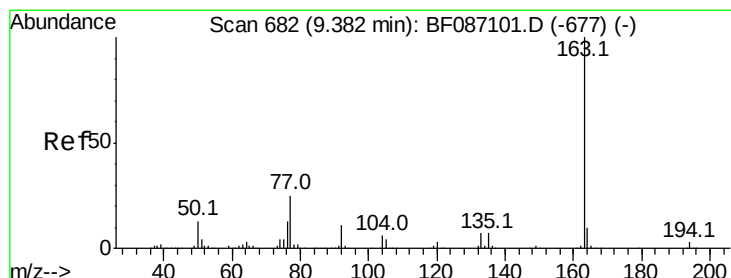
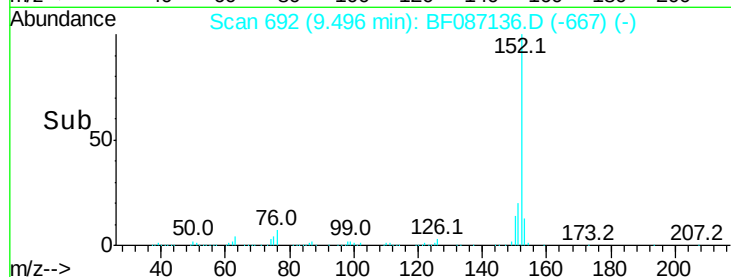
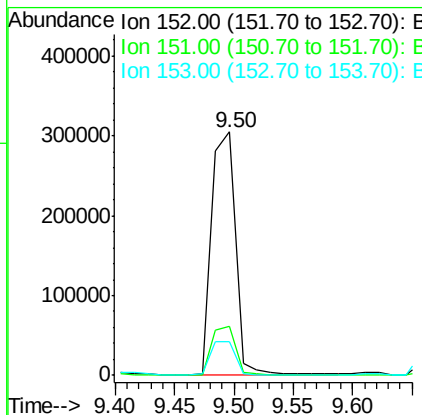
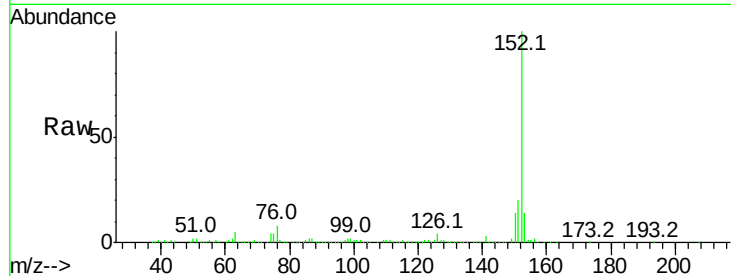
ClientSampleId :

PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Resp	Lower	Upper
152	100	429352		
151	20.4	16.8	25.2	
153	13.9	10.9	16.3	

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#49

Dimethylphthalate

Concen: 5.37 ng

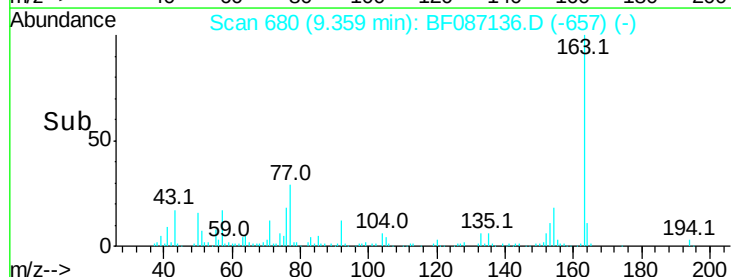
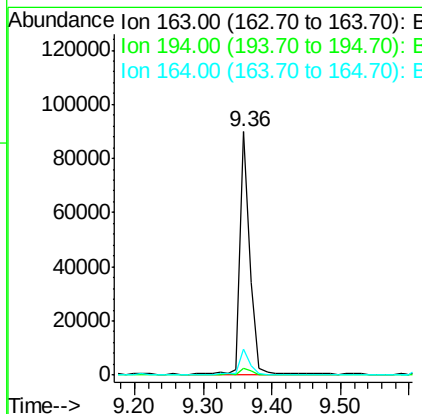
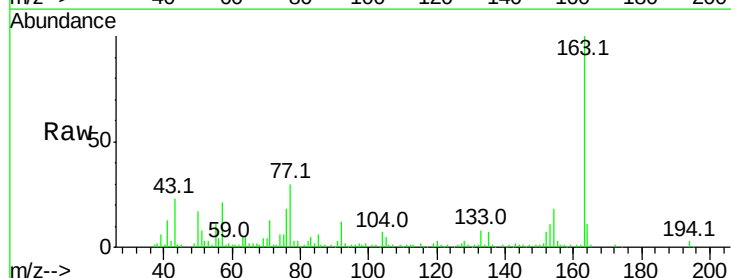
RT: 9.36 min Scan# 680

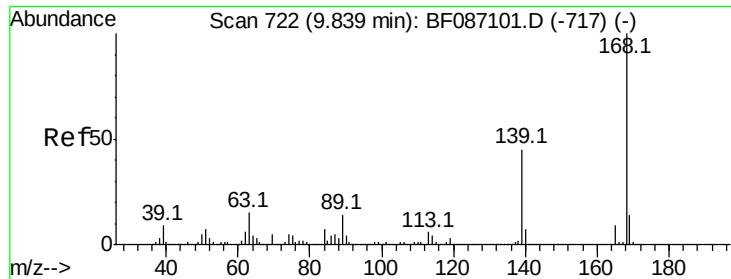
Delta R.T. -0.03 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	91256		
194	2.9	2.6	4.0	
164	10.7	8.2	12.4	





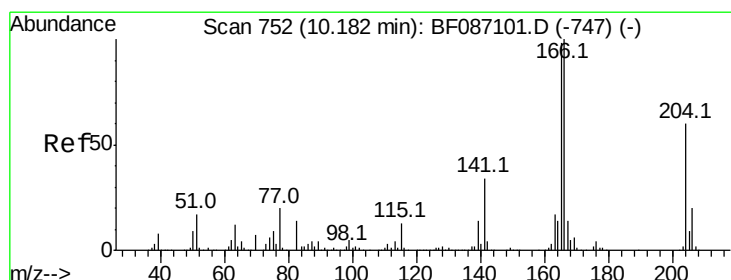
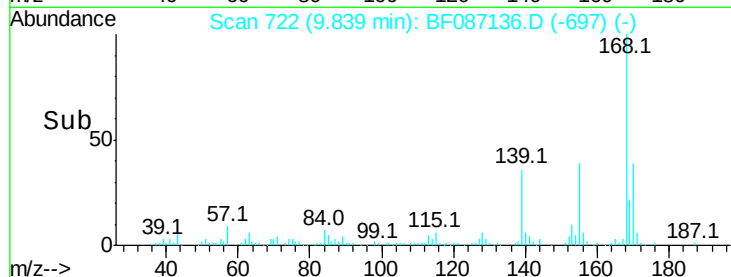
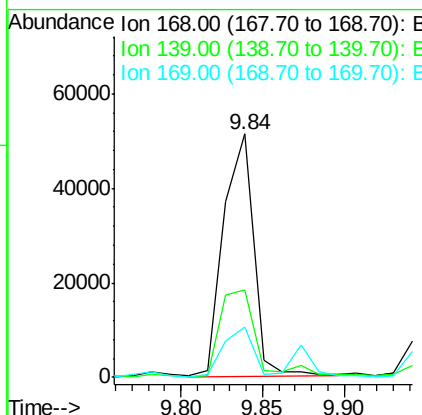
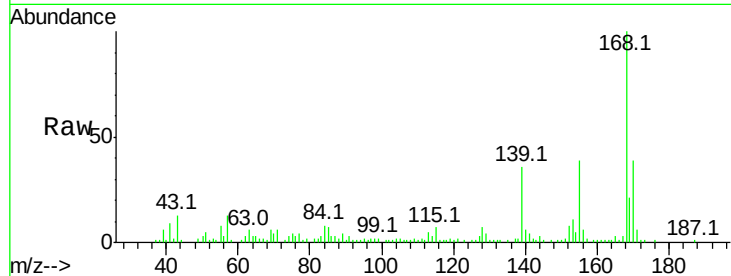
#54
Dibenzenofuran
Concen: 3.73 ng
RT: 9.84 min Scan# 722
Delta R.T. -0.01 min
Lab File: BF087136.D
Acq: 18 May 2016 7:36

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.8	31.4	47.0
169	20.7	10.7	16.1#

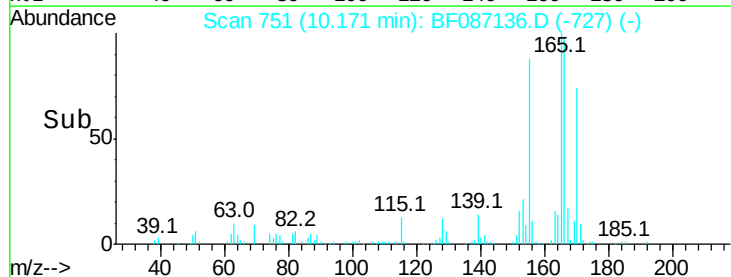
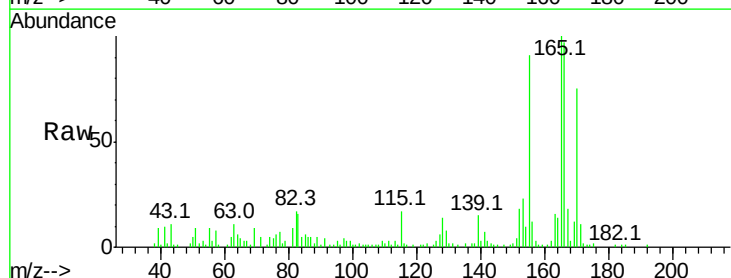
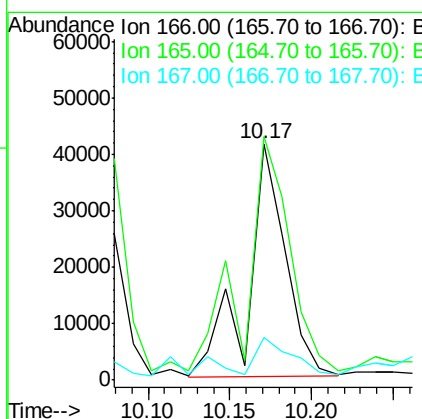
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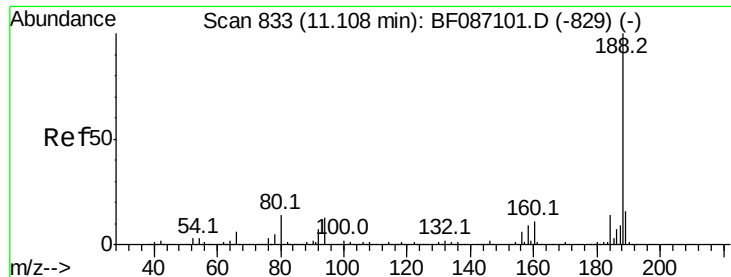
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#57
Fluorene
Concen: 4.74 ng
RT: 10.17 min Scan# 751
Delta R.T. -0.02 min
Lab File: BF087136.D
Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.1	79.0	118.6
167	18.3	10.6	15.8#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.11 min Scan# 833

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

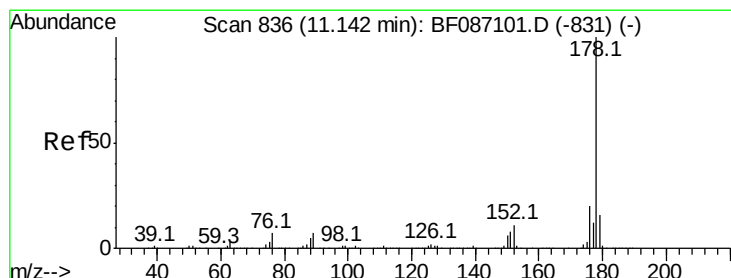
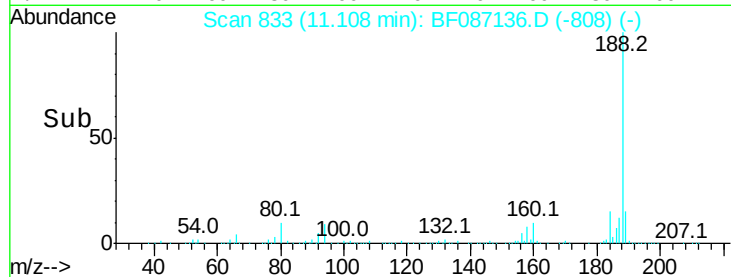
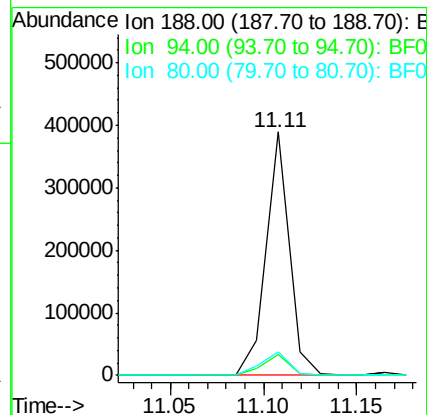
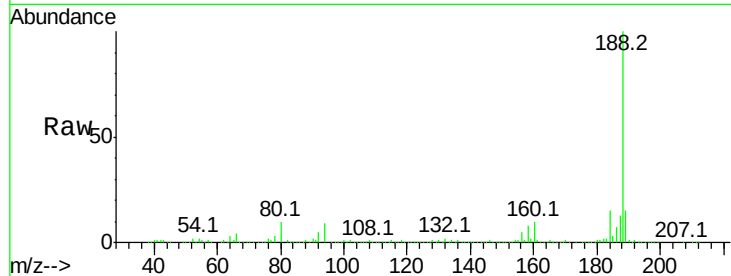
ClientSampleId :

PM-STA-1335-00(0-3)RE

Tot Ion:188	Resp:	334166
Ion Ratio	Lower	Upper
188 100		
94 8.8	6.8	10.2
80 9.6	7.1	10.7

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#70

Phenanthrene

Concen: 43.63 ng

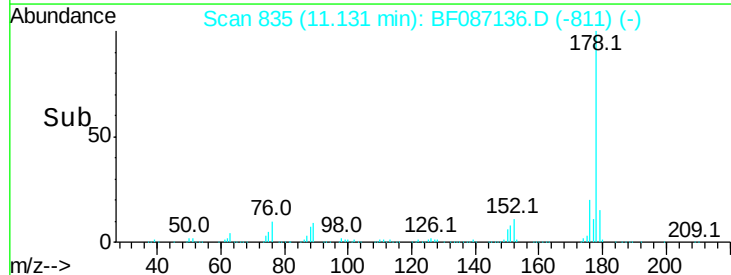
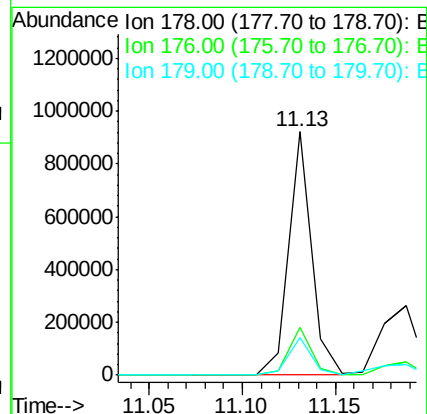
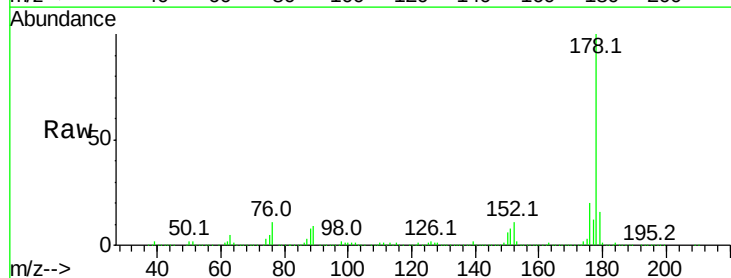
RT: 11.13 min Scan# 835

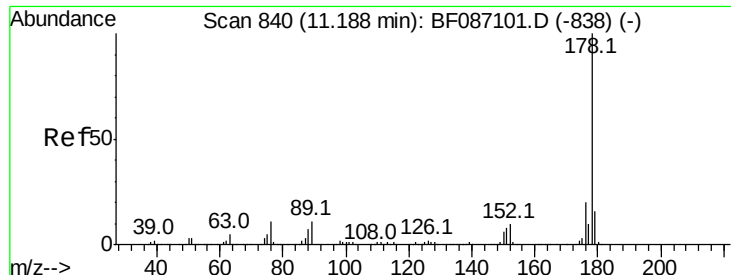
Delta R.T. -0.02 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Tgt Ion:178	Resp:	790673
Ion Ratio	Lower	Upper
178 100		
176 19.9	16.0	24.0
179 15.6	12.6	18.8





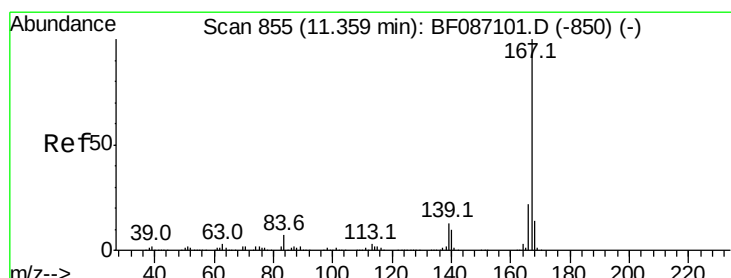
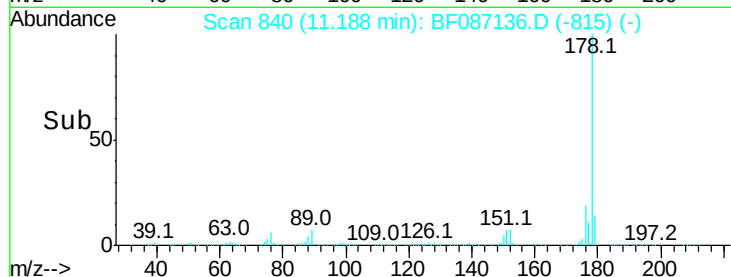
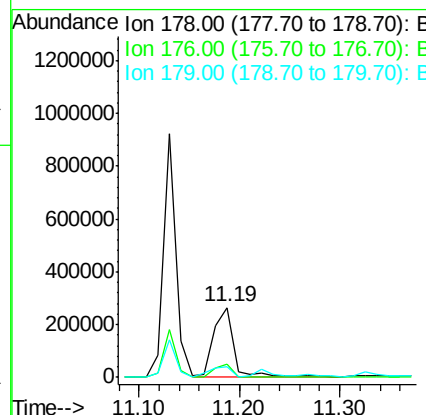
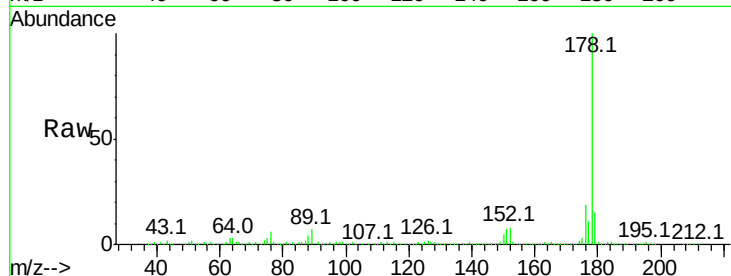
#71
 Anthracene
 Concen: 19.63 ng
 RT: 11.19 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: BF087136.D
 Acq: 18 May 2016 7:36

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.6	23.4
179	15.0	12.7	19.1

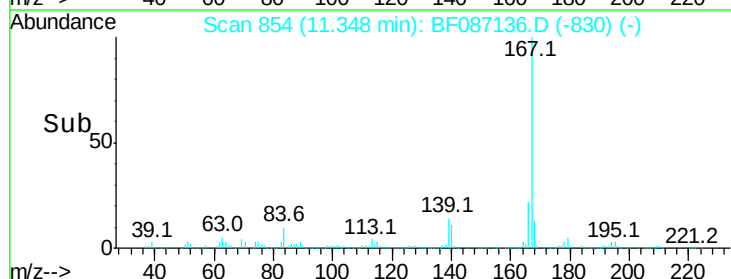
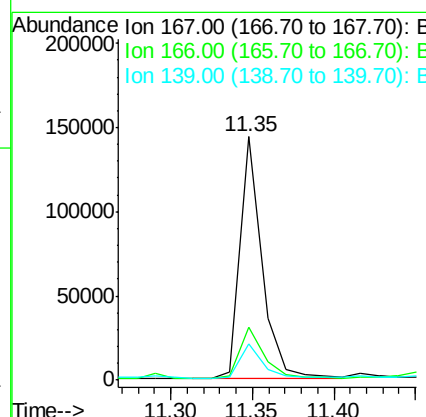
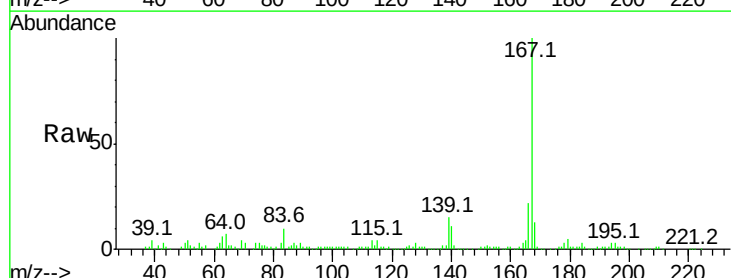
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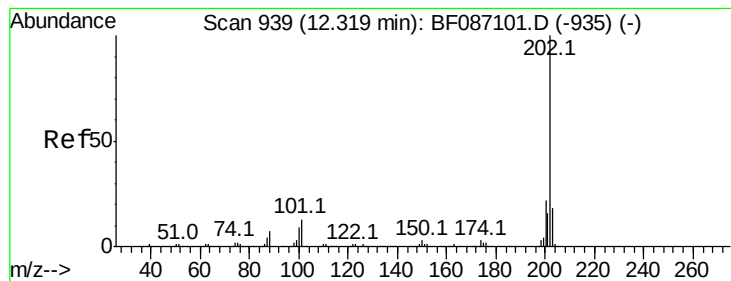
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#72
 Carbazole
 Concen: 7.97 ng
 RT: 11.35 min Scan# 854
 Delta R.T. -0.02 min
 Lab File: BF087136.D
 Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.7	26.5
139	14.9	10.8	16.2





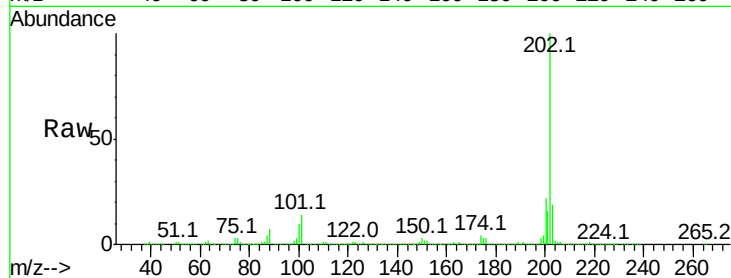
#74
Fluoranthene
Concen: 88.92 ng
RT: 12.32 min Scan# 939
Delta R.T. -0.01 min
Lab File: BF087136.D
Acq: 18 May 2016 7:36

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)RE

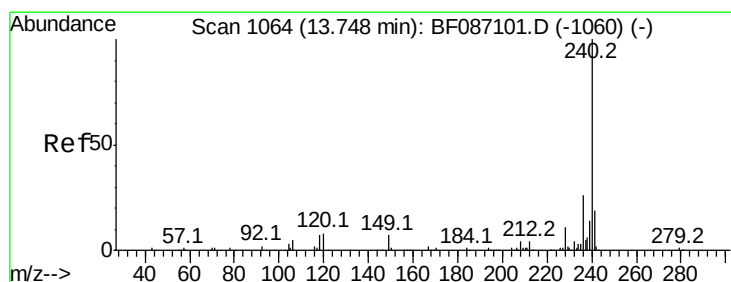
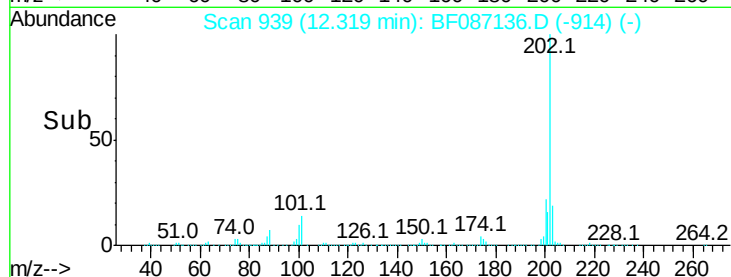
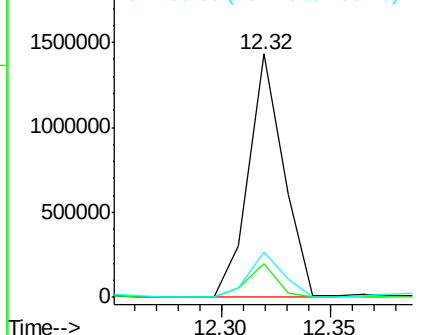
Tot Ion	Ratio	Lower	Upper
202	100		
101	14.0	0.0	35.4
203	18.7	0.0	38.1

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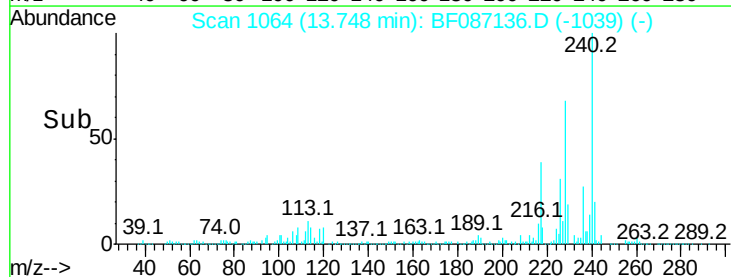
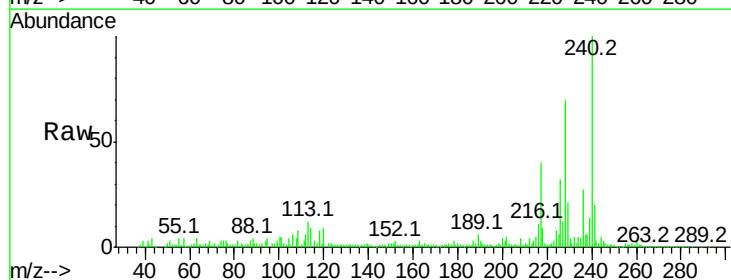
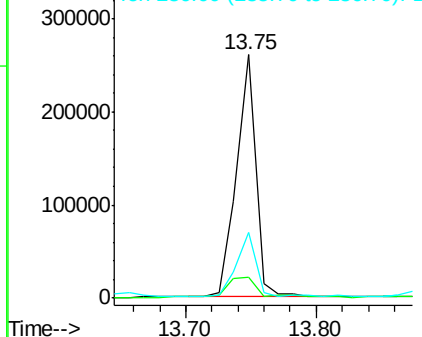
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

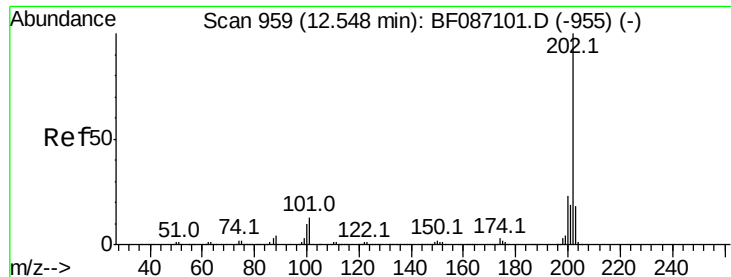


#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.75 min Scan# 1064
Delta R.T. -0.01 min
Lab File: BF087136.D
Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.8	11.2	16.8#
236	27.1	21.2	31.8

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: 73.94 ng

RT: 12.55 min Scan# 959

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

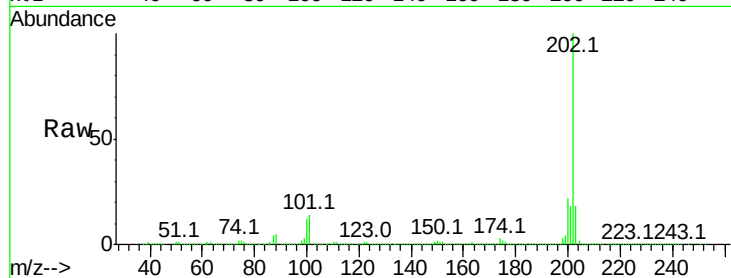
ClientSampleId :

PM-STA-1335-00(0-3)RE

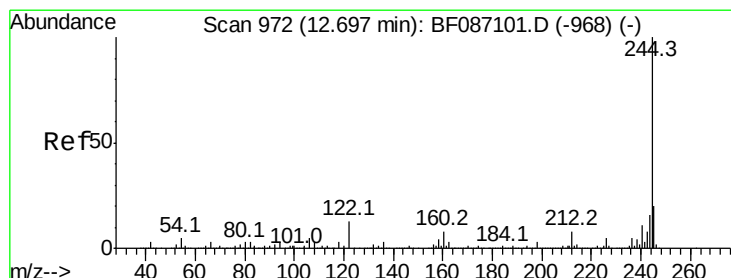
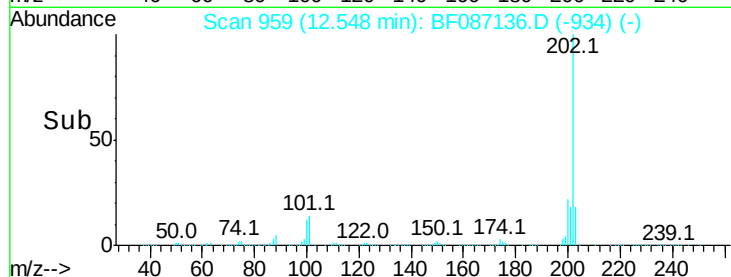
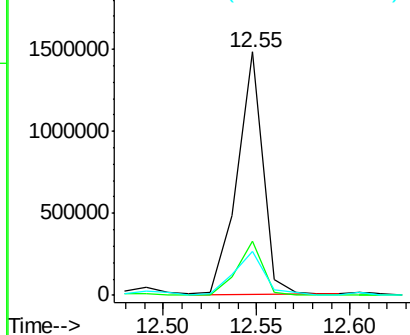
Tot Ion:	202	Resp:	1426450
Ion Ratio	Lower	Upper	
202	100		
200	22.3	17.7	26.5
203	18.0	14.2	21.4

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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: 74.30 ng

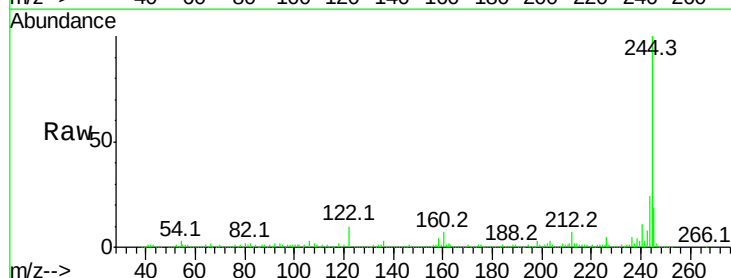
RT: 12.70 min Scan# 972

Delta R.T. -0.01 min

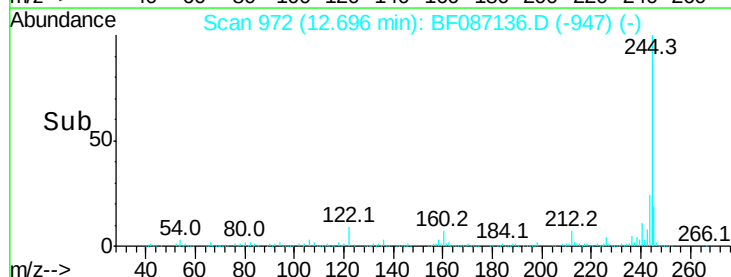
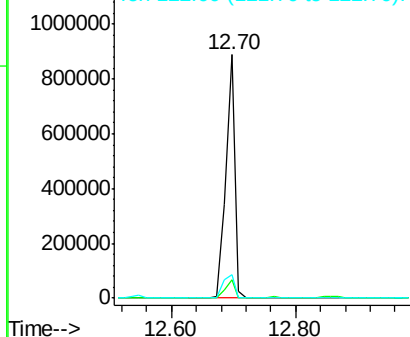
Lab File: BF087136.D

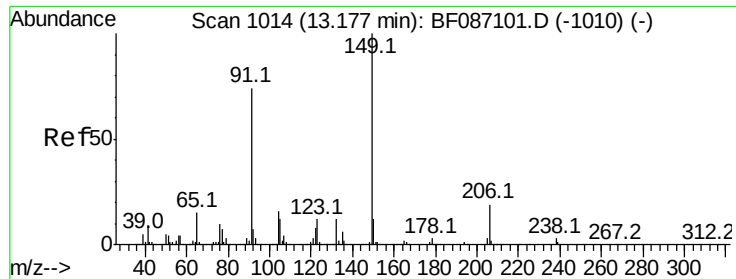
Acq: 18 May 2016 7:36

Tgt Ion:	244	Resp:	877153
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.2	9.2
122	9.6	12.0	18.0#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 7.62 ng

RT: 13.18 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BF087136.D

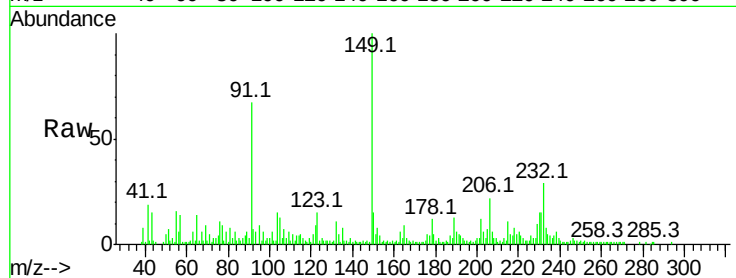
Acq: 18 May 2016 7:36

Instrument :

BNA_F

ClientSampleId :

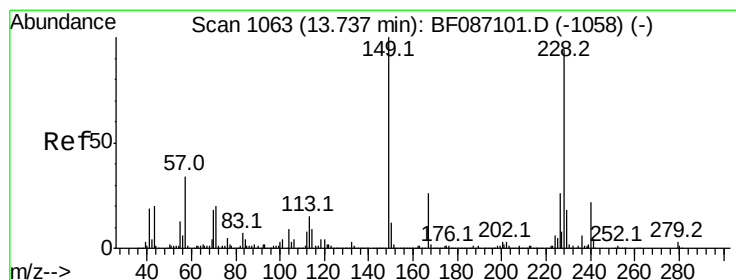
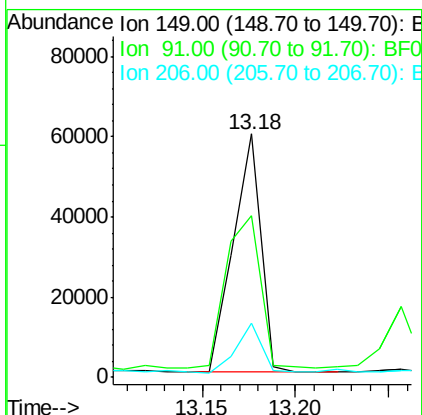
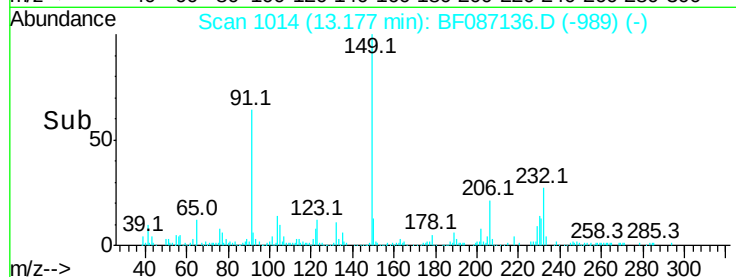
PM-STA-1335-00(0-3)RE



Tot Ion:	149	Resp:	62099
Ion Ratio	Lower	Upper	
149	100		
91	66.6	48.0	72.0
206	22.5	15.8	23.6

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#80

Benzo(a)anthracene

Concen: 69.33 ng

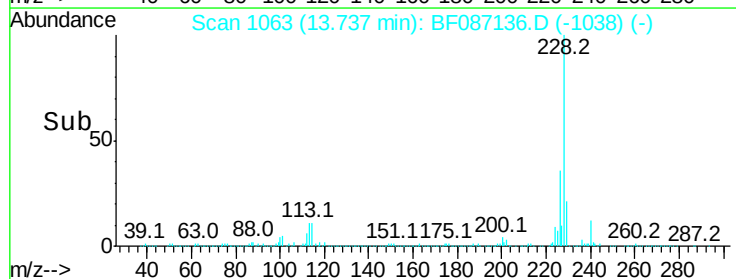
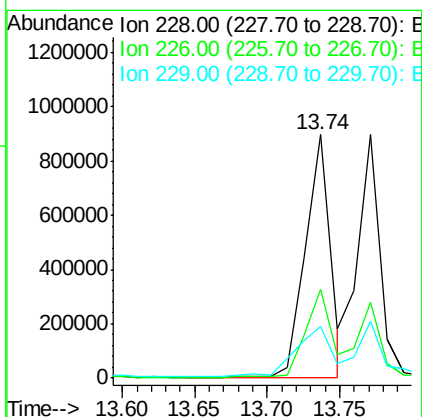
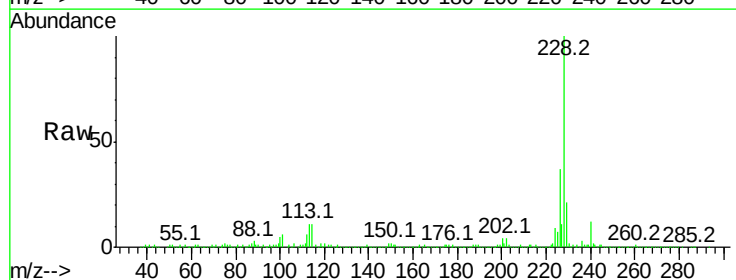
RT: 13.74 min Scan# 1063

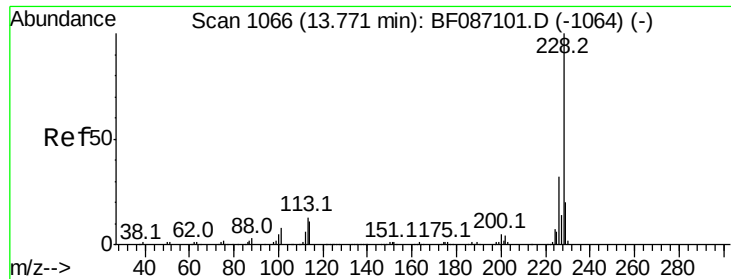
Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Tgt Ion:	228	Resp:	1070518
Ion Ratio	Lower	Upper	
228	100		
226	36.5	22.5	33.7#
229	21.4	16.6	25.0





#82

Chrysene

Concen: 64.55 ng/mL

RT: 13.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

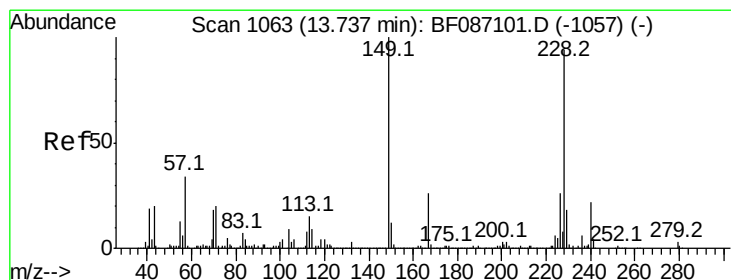
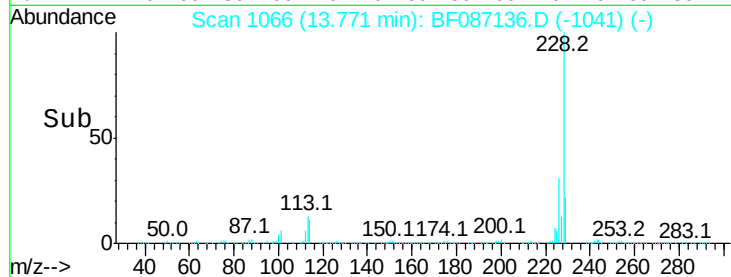
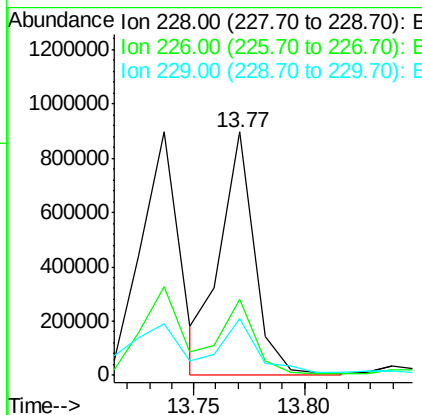
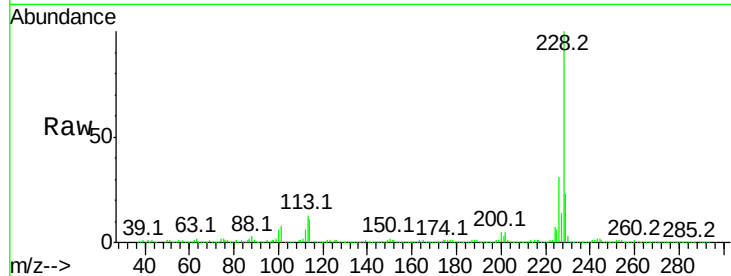
ClientSampleId :

PM-STA-1335-00(0-3)RE

Tot Ion:	228	Resp:	964385
Ion Ratio		Lower	Upper
228	100		
226	31.3	24.4	36.6
229	23.1	15.8	23.8

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#83

Bis(2-ethylhexyl)phthalate

Concen: 2.18 ng

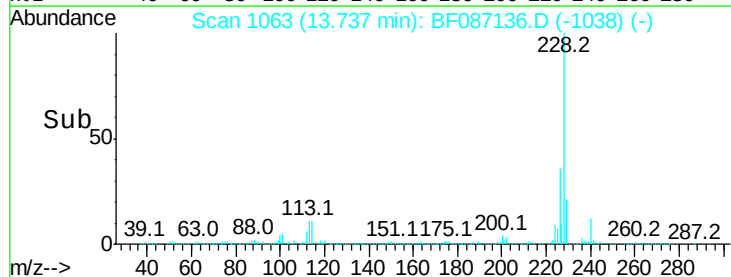
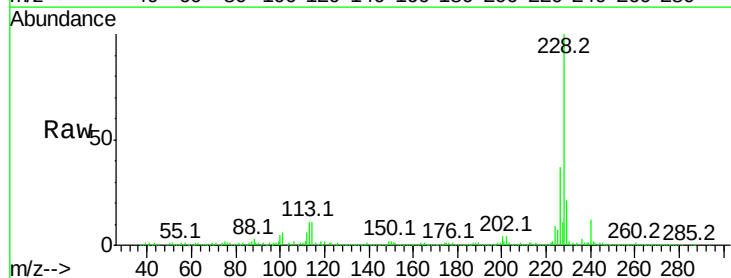
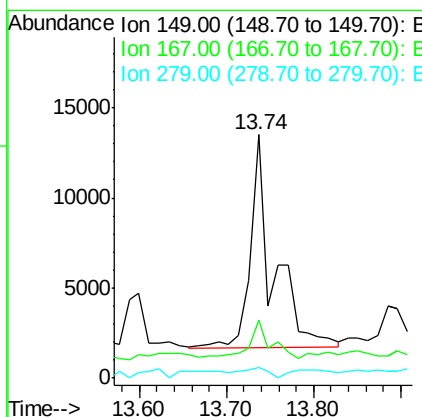
RT: 13.74 min Scan# 1063

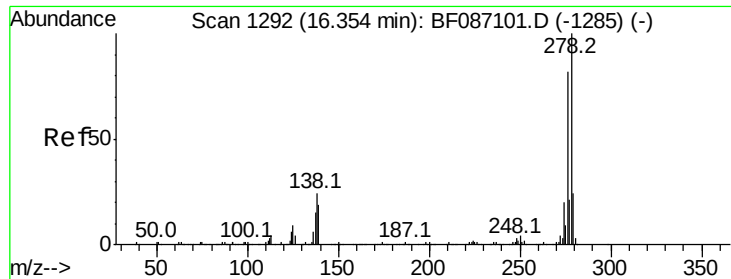
Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Tgt Ion:	149	Resp:	21591
Ion Ratio		Lower	Upper
149	100		
167	24.0	21.8	32.6
279	4.5	2.6	4.0





#85

Indeno(1,2,3-cd)pyrene

Concen: 38.15 ng

RT: 16.35 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

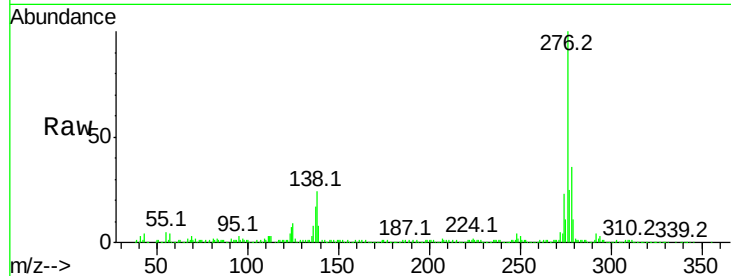
ClientSampleId :

PM-STA-1335-00(0-3)RE

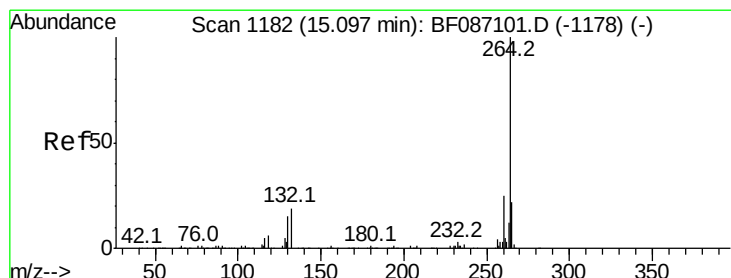
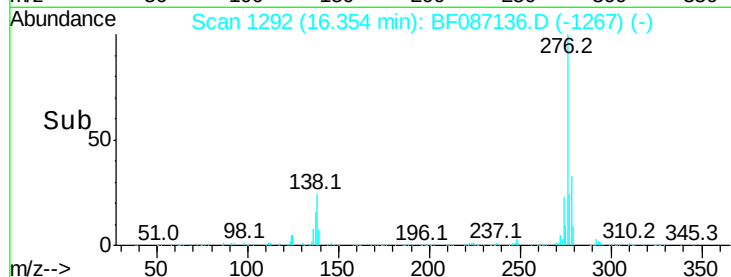
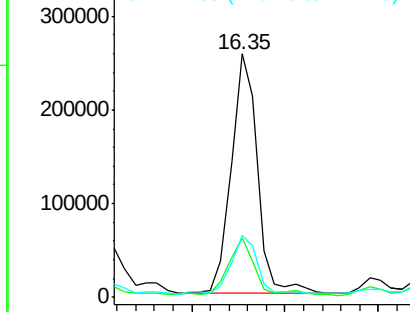
Tot Ion:	276	Resp:	500266
Ion Ratio		Lower	Upper
276	100		
138	22.5	25.6	38.4#
277	24.4	20.5	30.7

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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

Perylene-d12

Concen: 20.00 ng

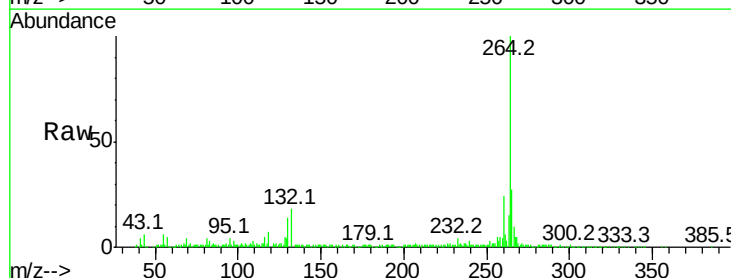
RT: 15.11 min Scan# 1183

Delta R.T. 0.00 min

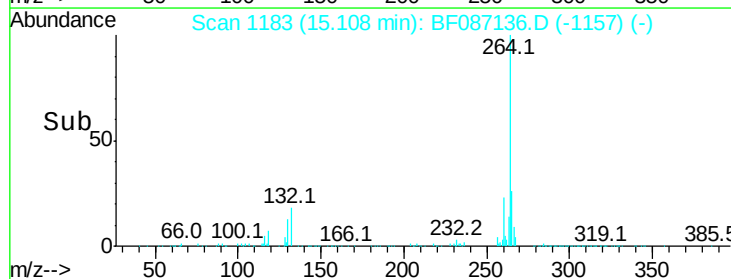
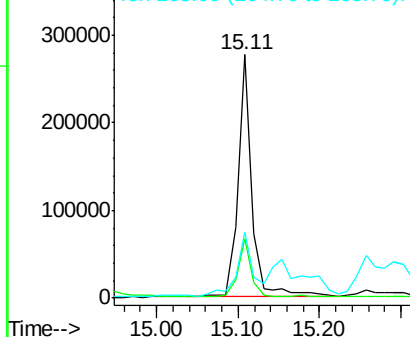
Lab File: BF087136.D

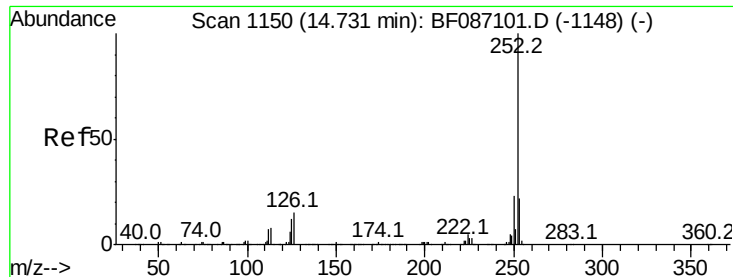
Acq: 18 May 2016 7:36

Tgt Ion:	264	Resp:	330919
Ion Ratio		Lower	Upper
264	100		
260	24.3	19.5	29.3
265	26.9	17.3	25.9#



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





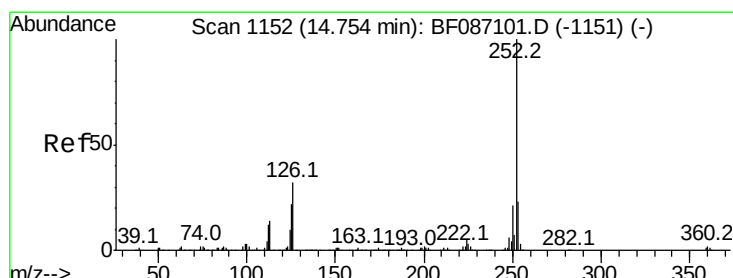
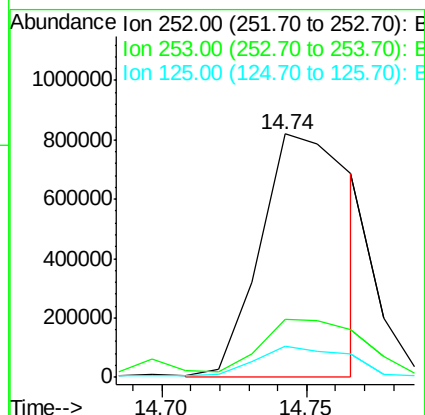
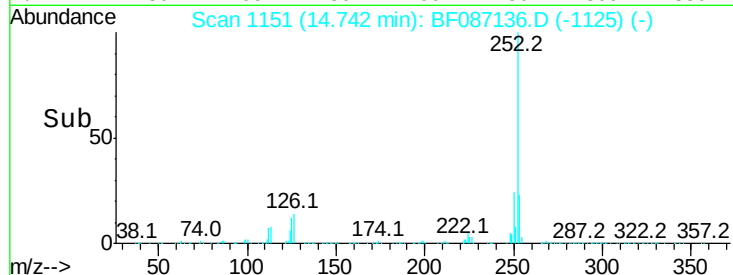
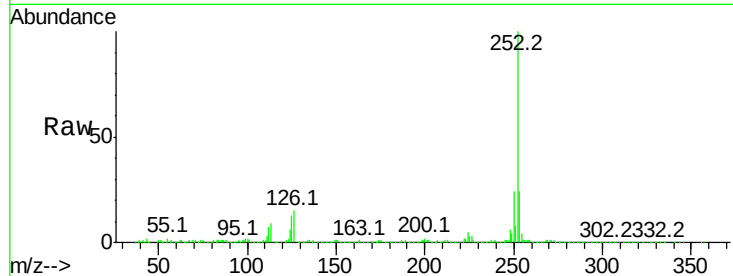
#87
Benzo(b)fluoranthene
Concen: 82.45 ng m
RT: 14.74 min Scan# 1151
Delta R.T. 0.00 min
Lab File: BF087136.D
Acq: 18 May 2016 7:36

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.6
125	12.8	11.4	17.0

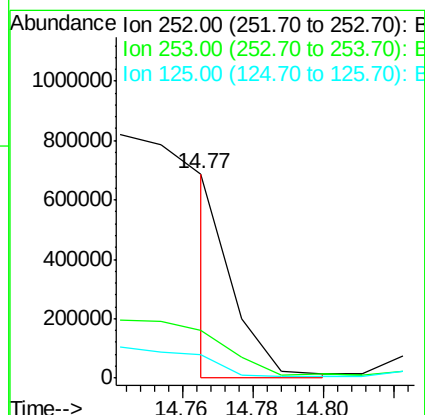
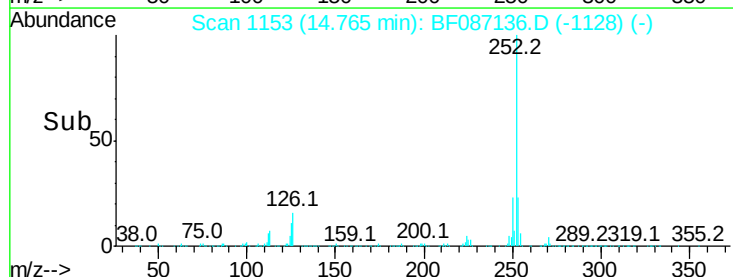
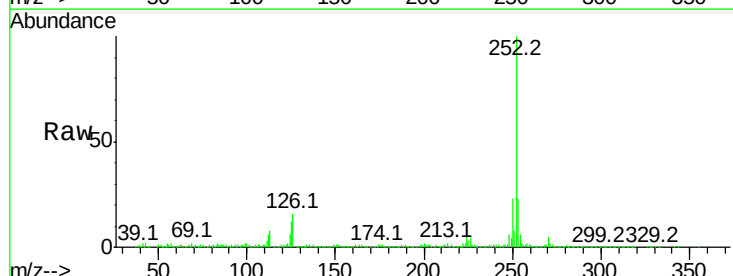
Manual Integrations
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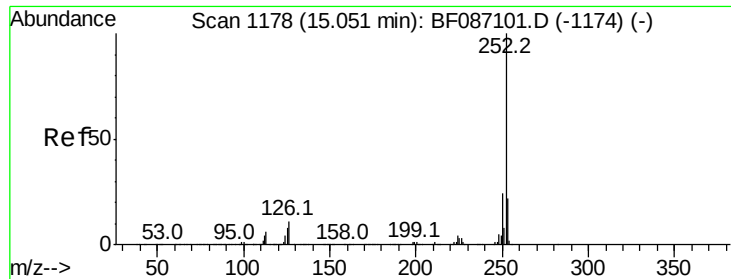
sohil
5/18/2016 6:59:51 PM



#88
Benzo(k)fluoranthene
Concen: 9.83 ng m
RT: 14.77 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF087136.D
Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.6
125	11.7	9.1	13.7





#89

Benzo(a)pyrene

Concen: 50.12 ng

RT: 15.06 min Scan# 1179

Delta R.T. -0.00 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

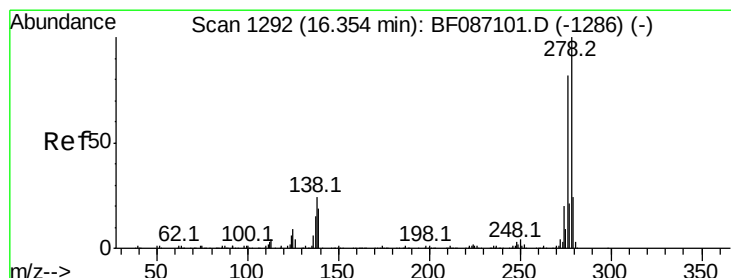
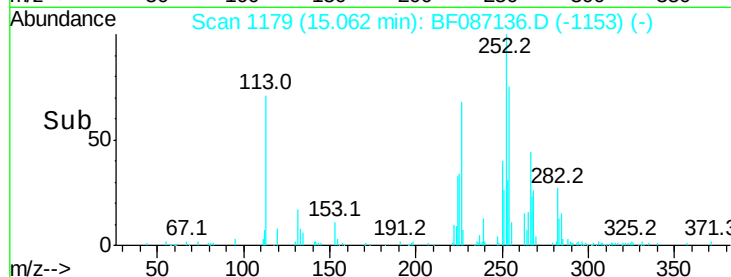
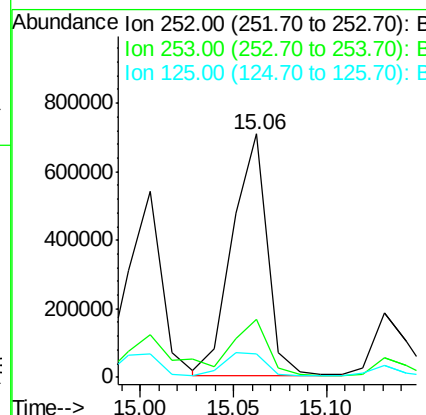
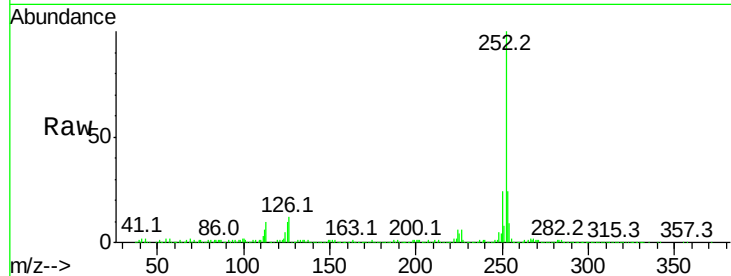
ClientSampleId :

PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.7	17.2	25.8	
125	9.8	9.0	13.6	

Manual Integrations
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#90

Dibenzo(a,h)anthracene

Concen: 10.24 ng m

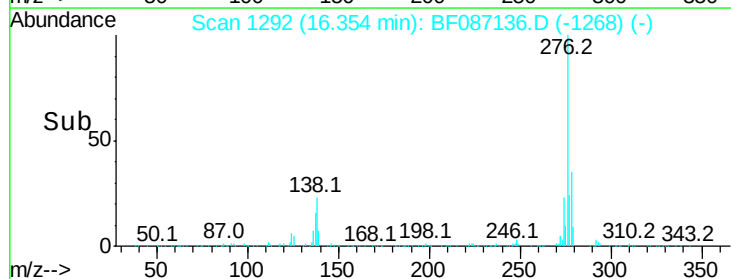
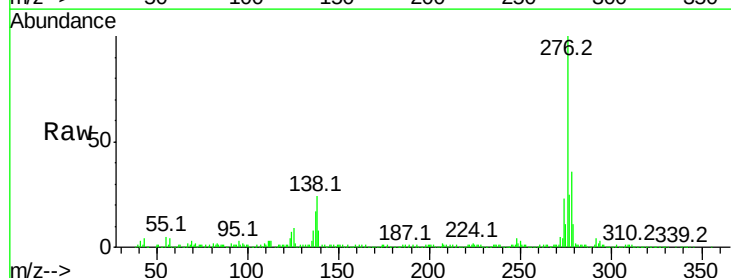
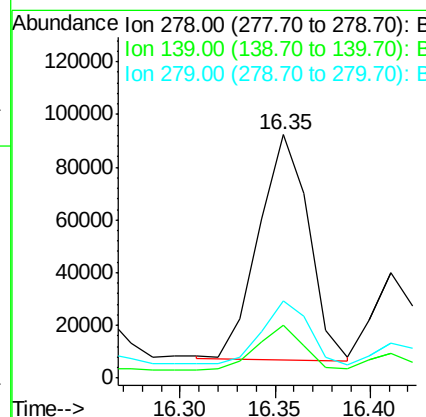
RT: 16.35 min Scan# 1292

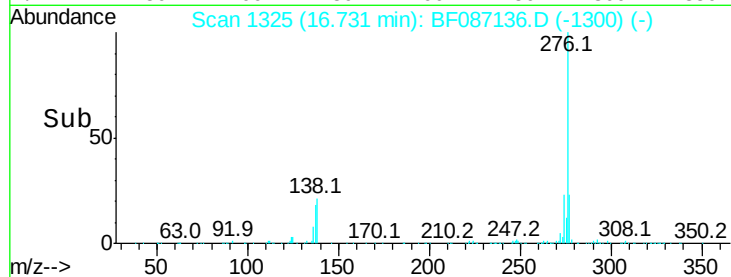
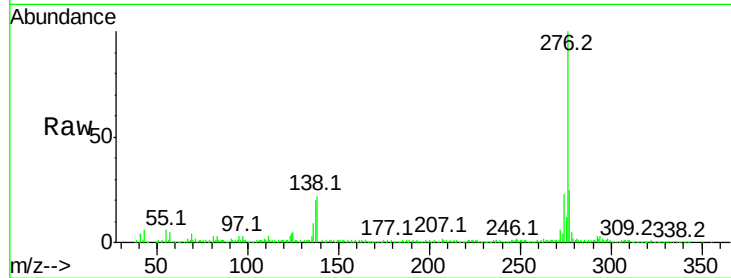
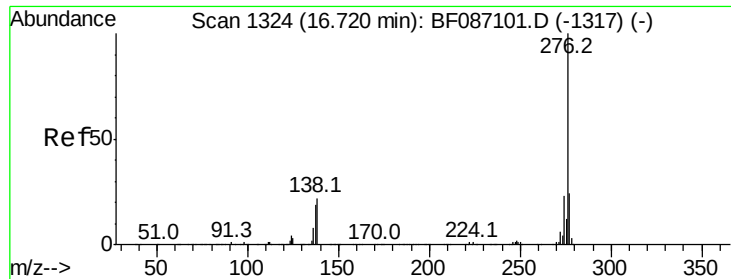
Delta R.T. -0.02 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Tgt Ion	Ratio	Resp	Lower	Upper
278	100			
139	21.8	16.6	24.8	
279	31.8	19.6	29.4	





#91

Benzo(a,h,i)perylene

Concen: 24.45 ng

RT: 16.73 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF087136.D

Acq: 18 May 2016 7:36

Instrument :

BNA_F

ClientSampleId :

PM-STA-1335-00(0-3)RE

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.6	19.6	29.4
138	22.4	23.6	35.4#

Manual Integrations
APPROVED

sohil
5/18/2016 6:59:51 PM

