

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
 Data File : BF087081.D
 Acq On : 16 May 2016 15:07
 Operator : UM/SJ
 Sample : H2994-03RE
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
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Quant Time: May 17 12:50:57 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 01:12:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	142756	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	555053	20.00	ng	0.00
38) Acenaphthene-d10	9.64	164	222273	20.00	ng	0.00
63) Phenanthrene-d10	11.12	188	335145	20.00	ng	0.00
75) Chrysene-d12	13.76	240	251689	20.00	ng	0.00
86) Perylene-d12	15.13	264	235015	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	939325	111.43	ng	0.00
7) Phenol-d6	6.28	99	1386770	123.10	ng	0.00
23) Nitrobenzene-d5	7.19	82	886084	80.16	ng	0.00
41) 2,4,6-Tribromophenol	10.43	330	216712	92.10	ng	-0.01
44) 2-Fluorobiphenyl	8.98	172	1258735	95.18	ng	0.00
78) Terphenyl-d14	12.71	244	882409	74.39	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.92	128	190244	6.84	ng	99
37) 2-Methylnaphthalene	8.60	142	105920m	6.52	ng	
48) Acenaphthylene	9.51	152	547375	26.87	ng	99
49) Dimethylphthalate	9.38	163	83228	4.91	ng	98
51) Acenaphthene	9.68	154	25991	2.05	ng	99
54) Dibenzofuran	9.85	168	67378	4.14	ng	# 95
70) Phenanthrene	11.15	178	887623	49.63	ng	99
71) Anthracene	11.20	178	457456	25.01	ng	99
72) Carbazole	11.36	167	133710	8.50	ng	97
74) Fluoranthene	12.34	202	1893597	102.94	ng	96
77) Pyrene	12.57	202	1724429	89.49	ng	100
79) Butylbenzylphthalate	13.19	149	73260	8.99	ng	# 74
80) Benzo(a)anthracene	13.75	228	1152428m	81.56	ng	
82) Chrysene	13.79	228	923434	64.25	ng	96
85) Indeno(1,2,3-cd)pyrene	16.39	276	390608	32.66	ng	# 90
87) Benzo(b)fluoranthene	14.77	252	1227756m	80.38	ng	
88) Benzo(k)fluoranthene	14.78	252	250950m	20.07	ng	
89) Benzo(a)pyrene	15.07	252	633776	48.11	ng	94
90) Dibenzo(a,h)anthracene	16.39	278	133088	11.99	ng	# 90
91) Benzo(a,h,i)perylene	16.77	276	308857	27.38	ng	# 91

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

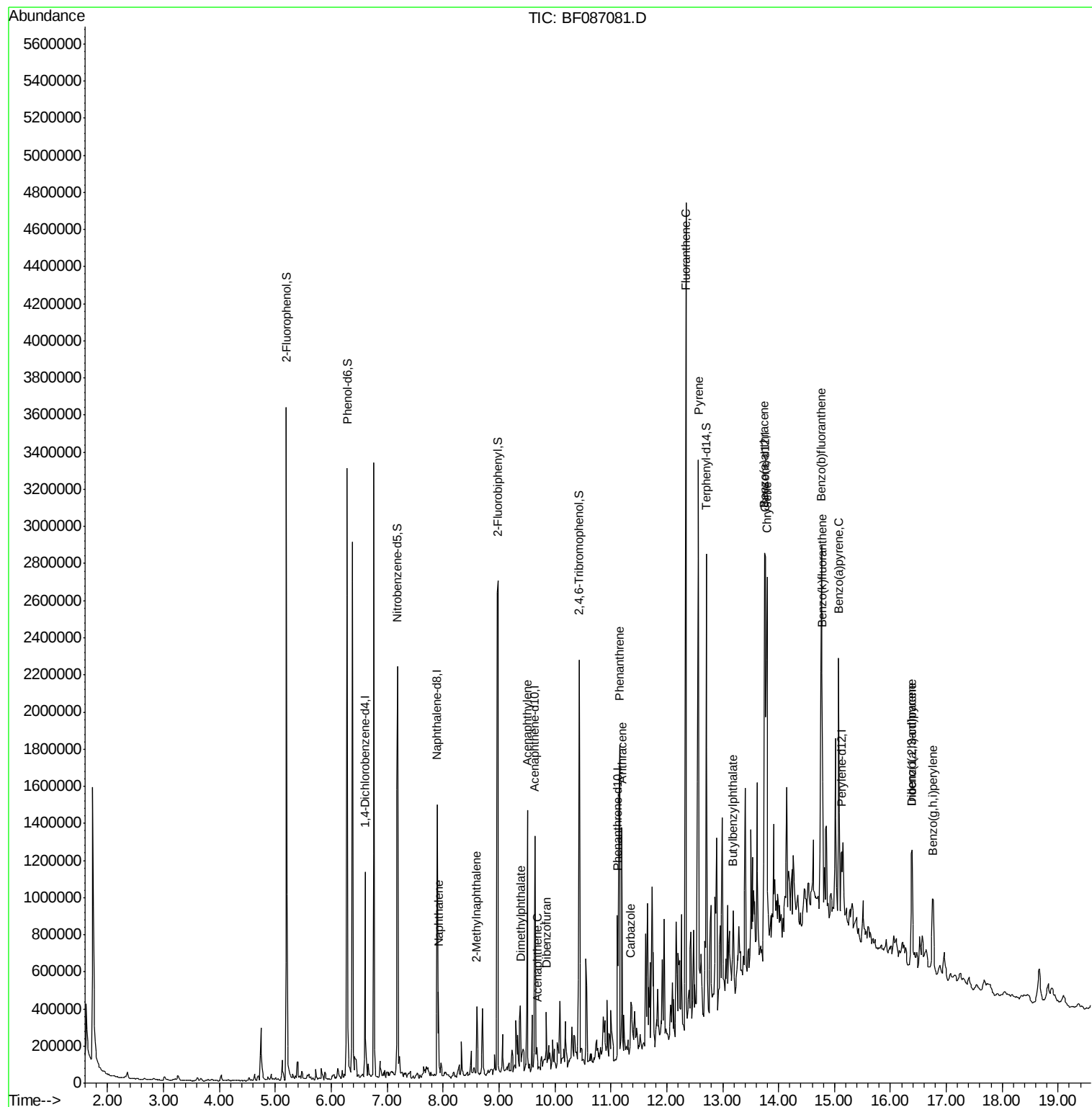
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
Data File : BF087081.D
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ALS Vial : 8 Sample Multiplier: 1

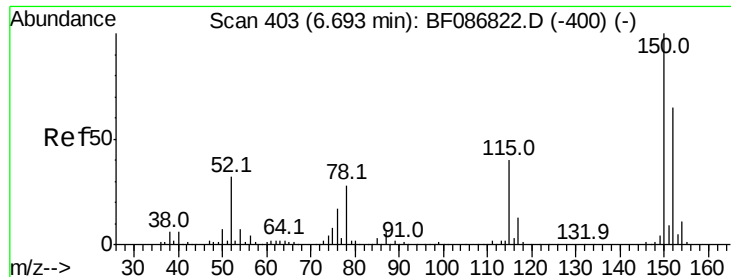
Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)RE

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Quant Time: May 17 12:50:57 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

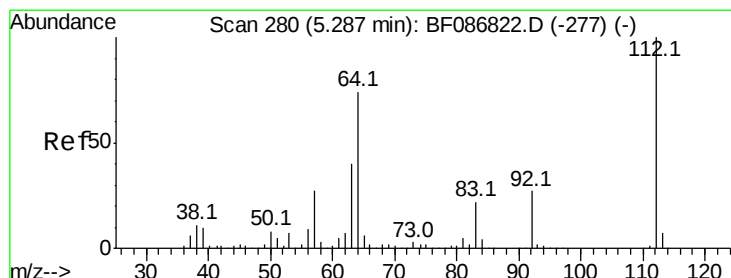
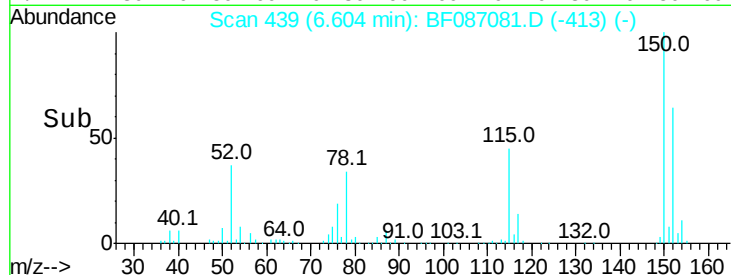
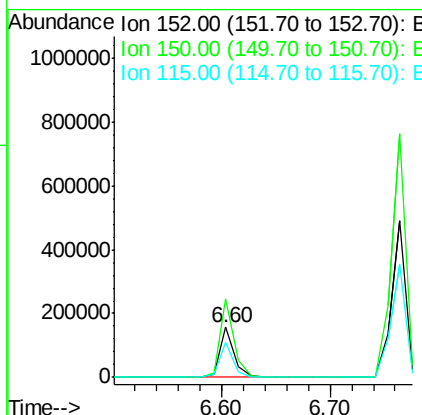
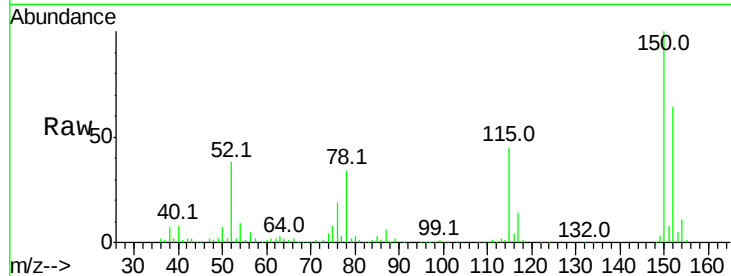
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.60 min Scan# 439
Delta R.T. 0.00 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.8	188.6
115	69.7	51.5	77.3

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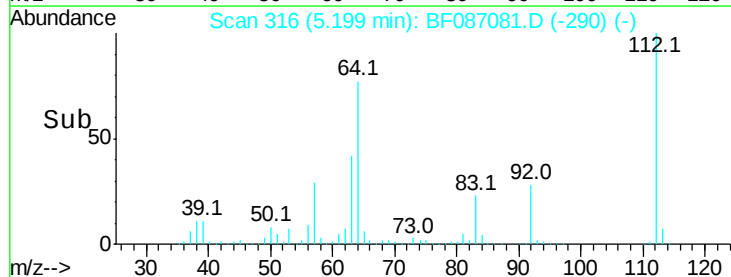
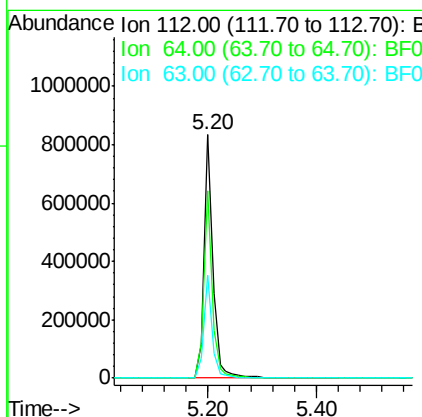
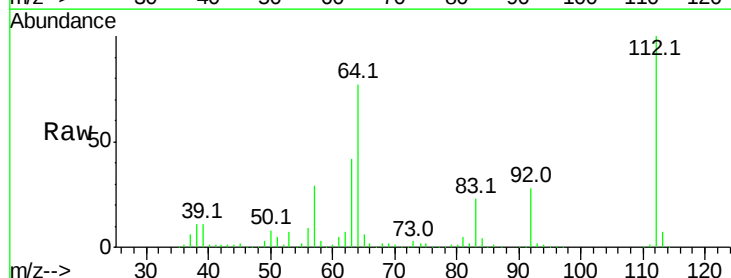
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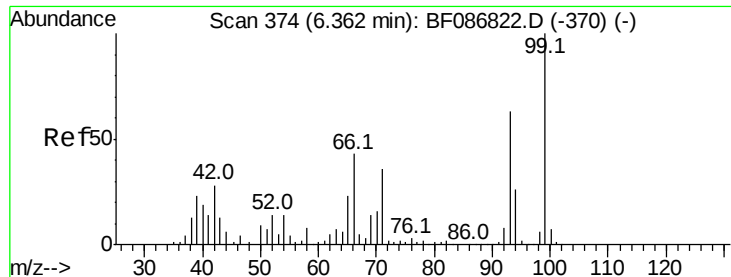


#5

2-Fluorophenol
Concen: 111.43 ng
RT: 5.20 min Scan# 316
Delta R.T. 0.00 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	76.9	52.1	78.1
63	42.0	25.7	38.5





#7

Phenol-d6

Concen: 123.10 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Instrument :

BNA_F

ClientSampleId :

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

Tot Ion: 99 Resp: 1386770

Ion Ratio Lower Upper

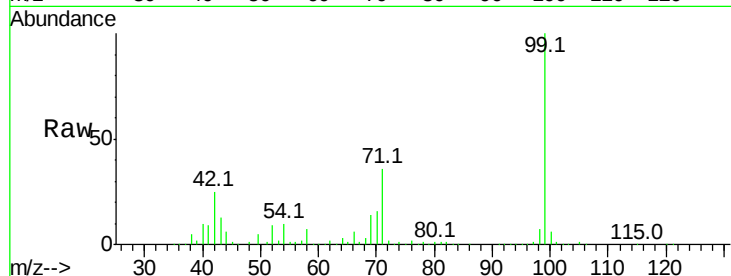
99 100

42 25.2 13.6 20.4#

71 35.9 24.6 36.8

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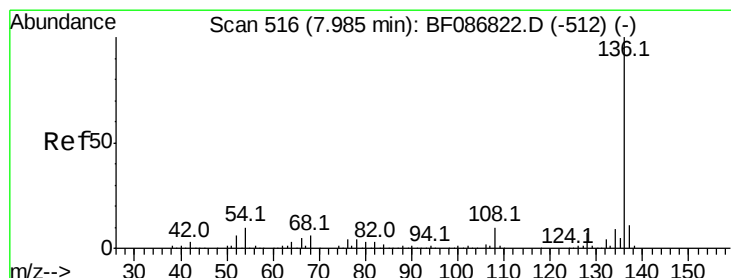
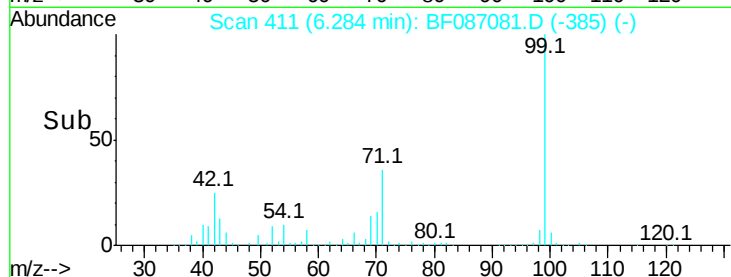
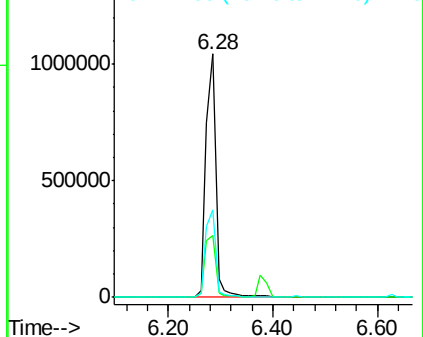
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.90 min Scan# 552

Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Tgt Ion:136 Resp: 555053

Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 11.8 5.0 7.4#

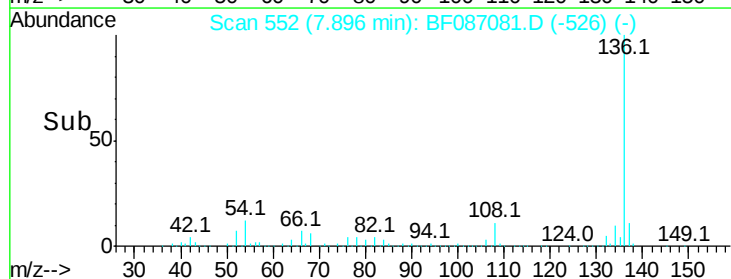
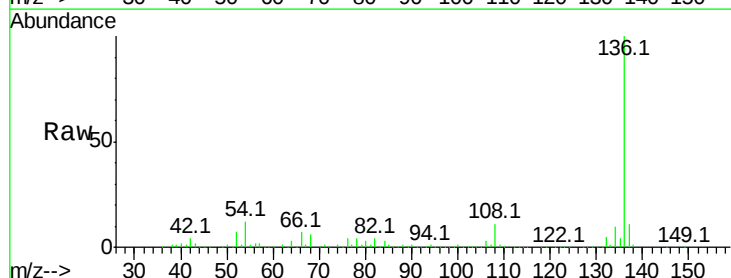
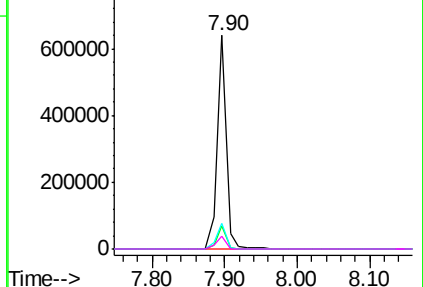
68 6.2 4.4 6.6

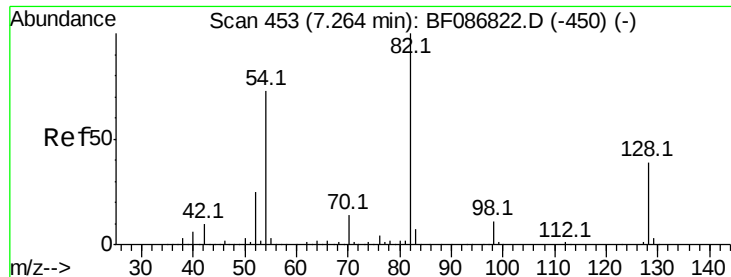
Abundance Ion 136.00 (135.70 to 136.70): E

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: 80.16 ng

RT: 7.19 min Scan# 490

Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Instrument :

BNA_F

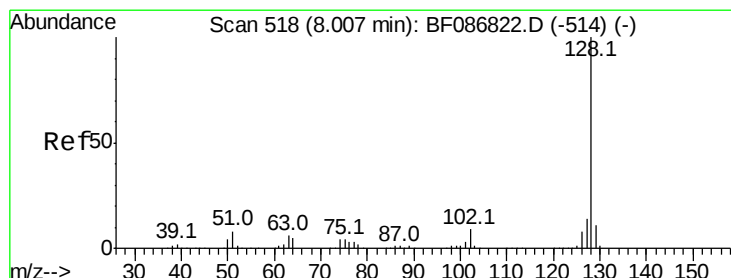
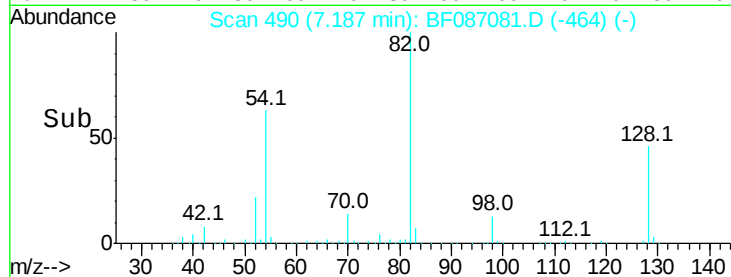
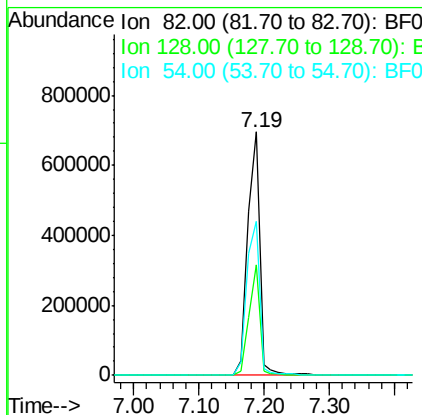
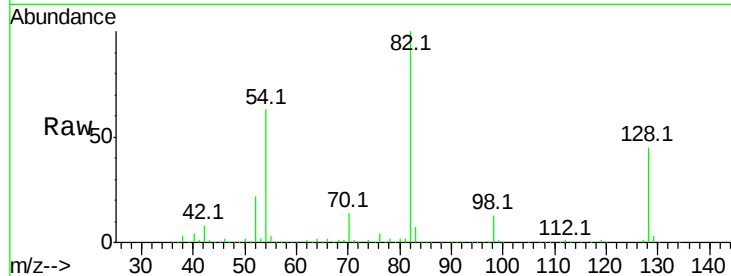
ClientSampleId :

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

Tot Ion:	82	Resp:	886084
Ion Ratio	Lower	Upper	
82	100		
128	45.5	40.6	61.0
54	63.0	38.1	57.1#

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#31

Naphthalene

Concen: 6.84 ng

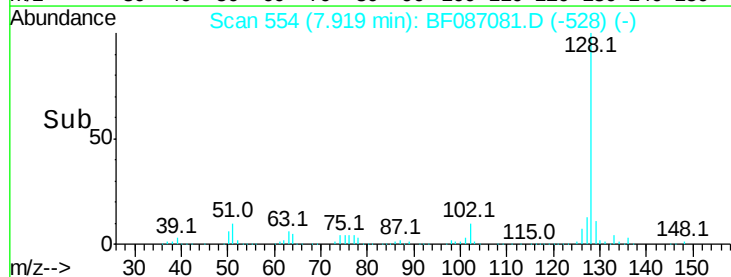
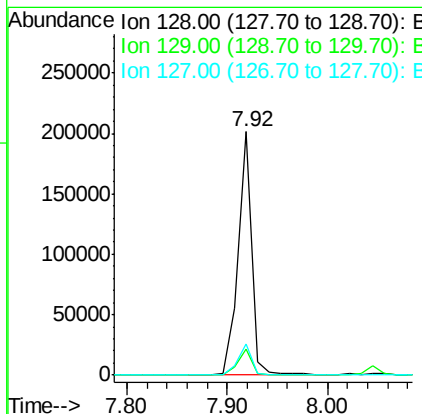
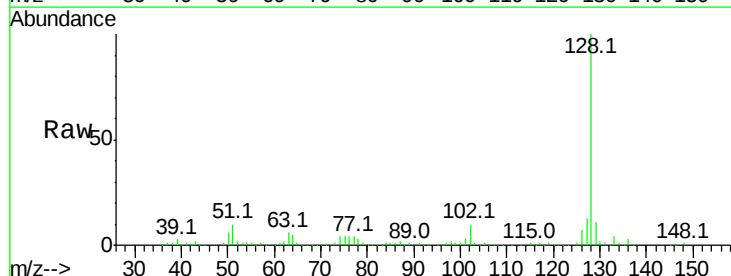
RT: 7.92 min Scan# 554

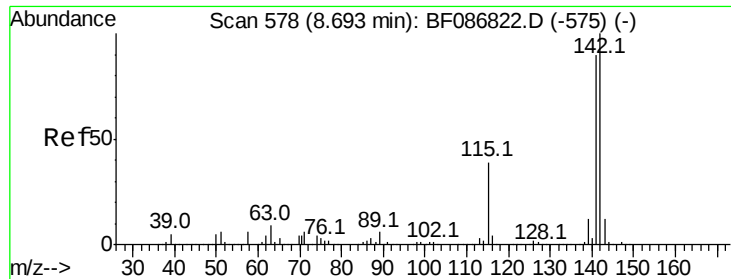
Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Tgt Ion:	128	Resp:	190244
Ion Ratio	Lower	Upper	
128	100		
129	10.9	8.6	13.0
127	12.9	10.8	16.2





#37

2-Methylnaphthalene

Concen: 6.52 ng/mL

RT: 8.60 min Scan# 614

Delta R.T. -0.01 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Instrument :

BNA_F

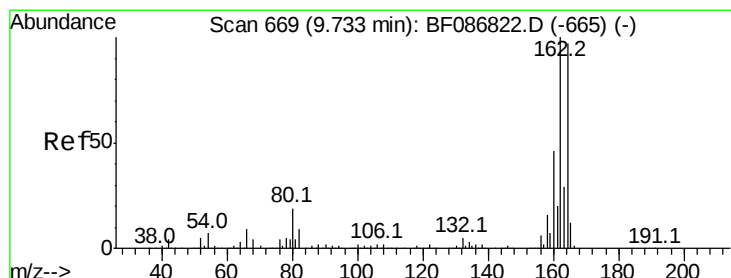
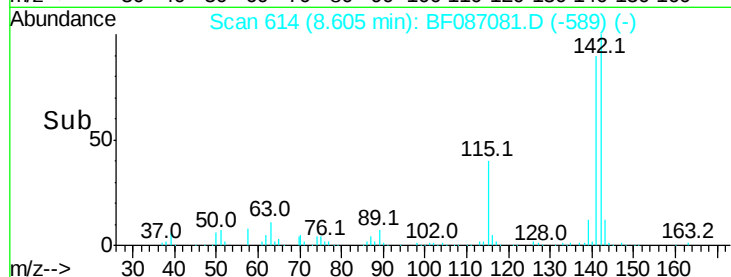
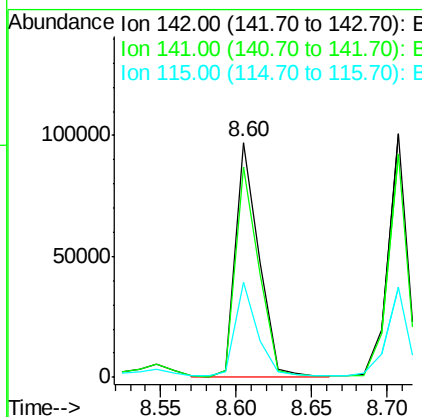
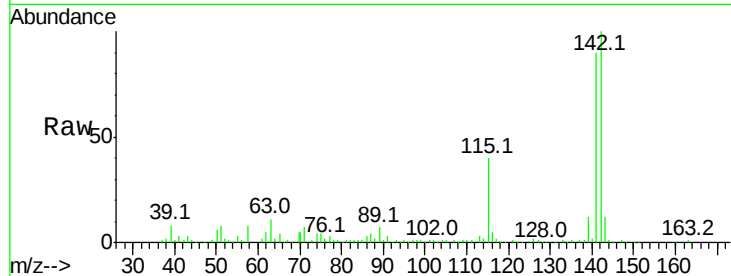
ClientSampleId :

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

Tot Ion:	142	Resp:	105920
Ion Ratio	Lower	Upper	
142	100		
141	89.6	71.0	106.6
115	40.3	26.6	39.8

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#38

Acenaphthene-d10

Concen: 20.00 ng/mL

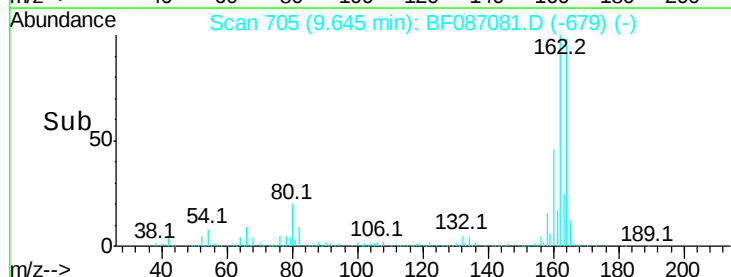
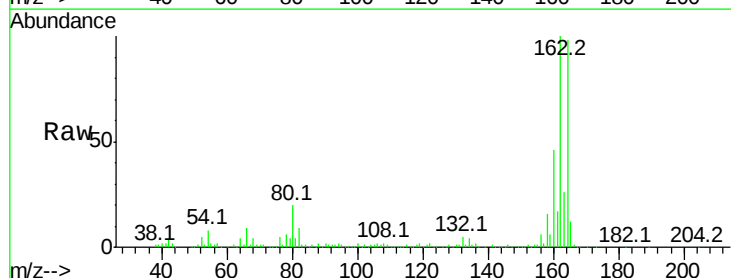
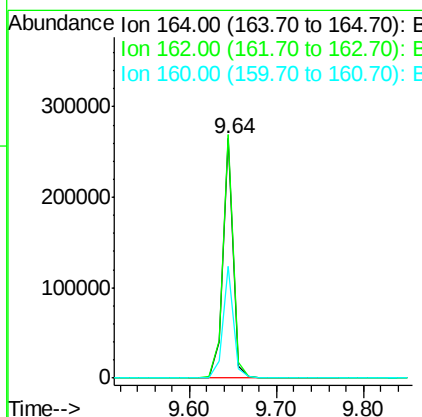
RT: 9.64 min Scan# 705

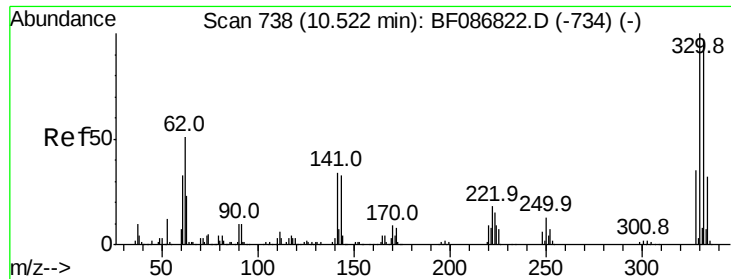
Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Tgt Ion:	164	Resp:	222273
Ion Ratio	Lower	Upper	
164	100		
162	101.8	82.8	124.2
160	47.0	36.9	55.3





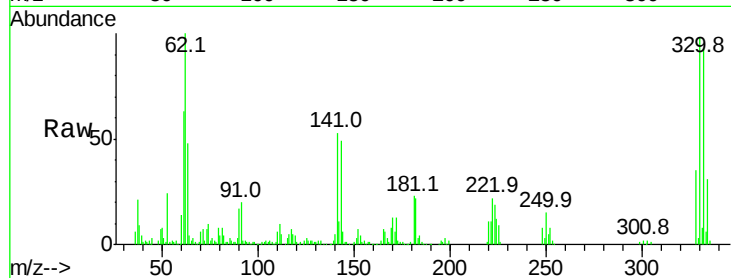
#41
 2,4,6-Tribromophenol
 Concen: 92.10 ng
 RT: 10.43 min Scan# 774
 Delta R.T. -0.01 min
 Lab File: BF087081.D
 Acq: 16 May 2016 15:07

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

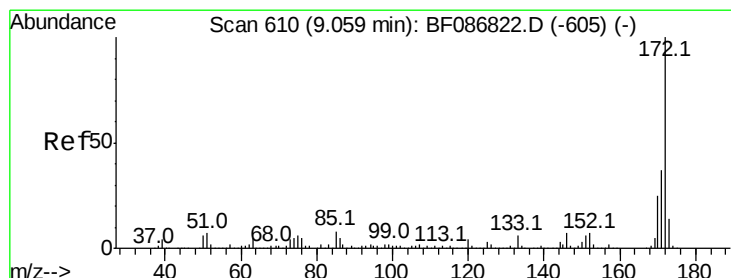
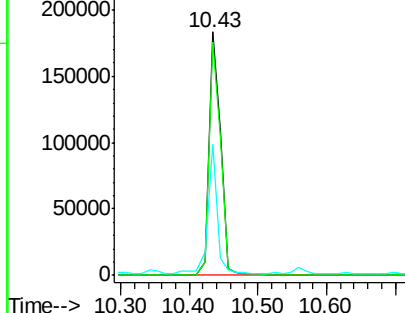
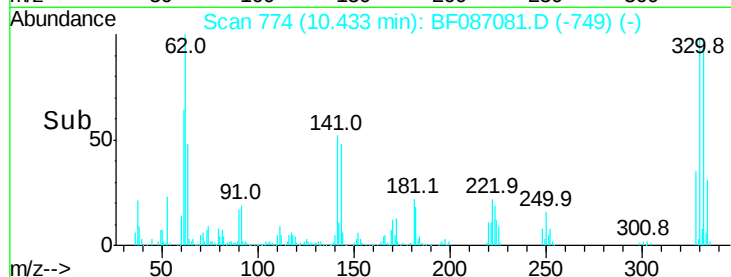
Tot Ion	Ratio	Resp	Lower	Upper
330	100	216712		
332	95.8	79.0	118.4	
141	44.0	31.2	46.8	

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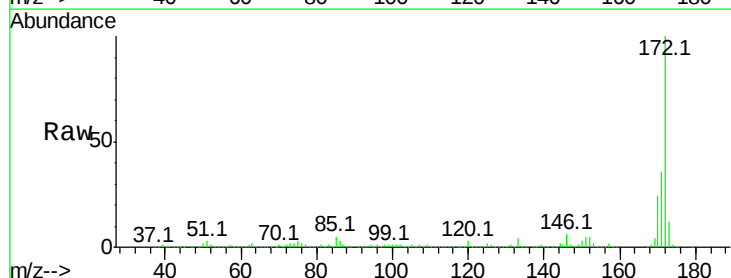


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

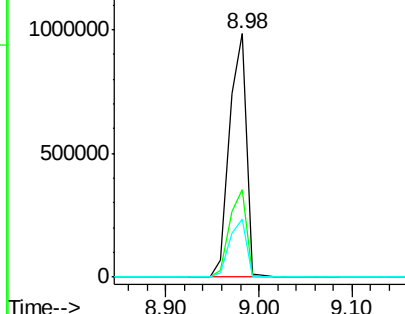
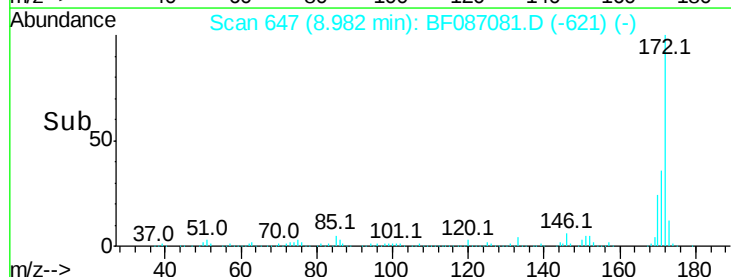


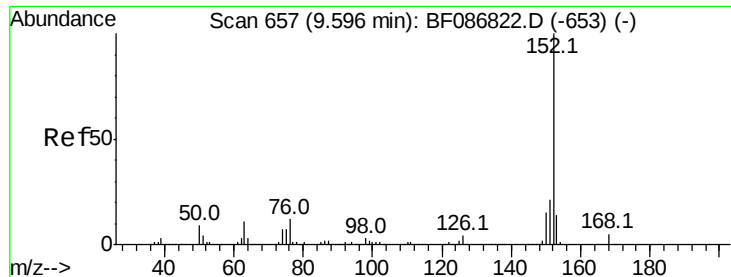
#44
 2-Fluorobiphenyl
 Concen: 95.18 ng
 RT: 8.98 min Scan# 647
 Delta R.T. 0.00 min
 Lab File: BF087081.D
 Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1258735		
171	35.9	29.0	43.6	
170	23.9	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





#48

Acenaphthylene

Concen: 26.87 ng

RT: 9.51 min Scan# 693

Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Instrument :

BNA_F

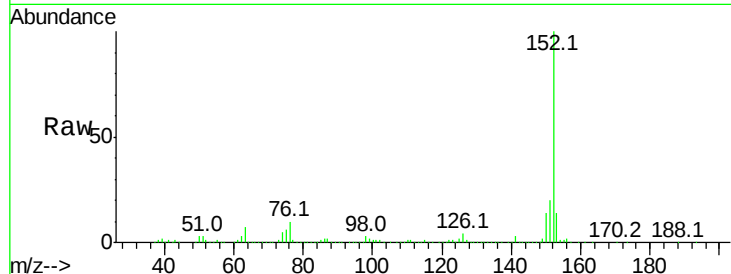
ClientSampleId :

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

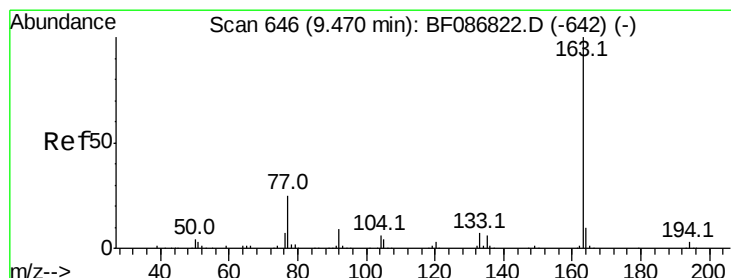
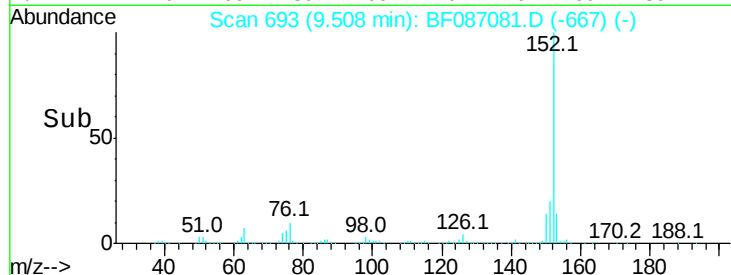
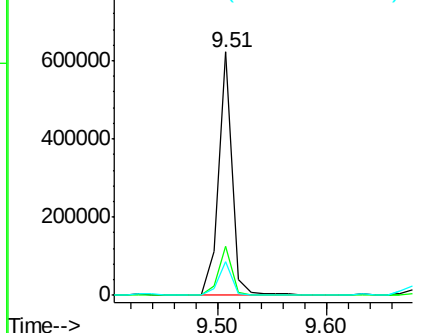
Tot Ion	Ratio	Resp	Lower	Upper
152	100	547375		
151	20.3	16.8	25.2	
153	14.1	10.9	16.3	

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.91 ng

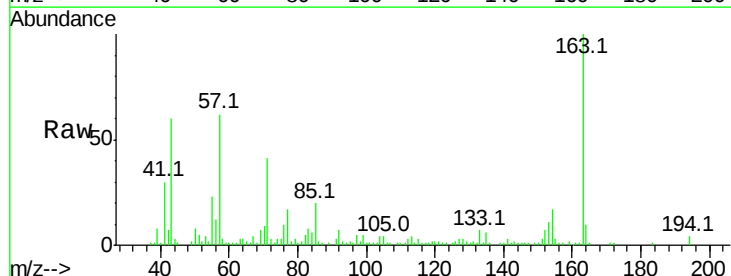
RT: 9.38 min Scan# 682

Delta R.T. -0.01 min

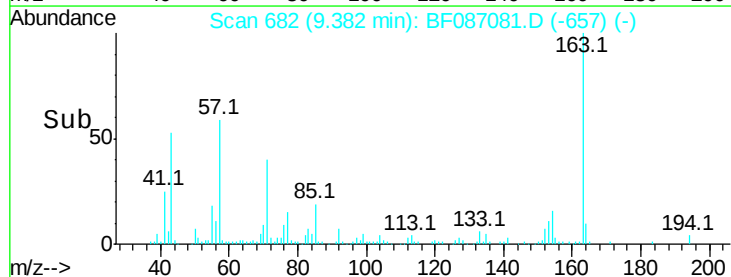
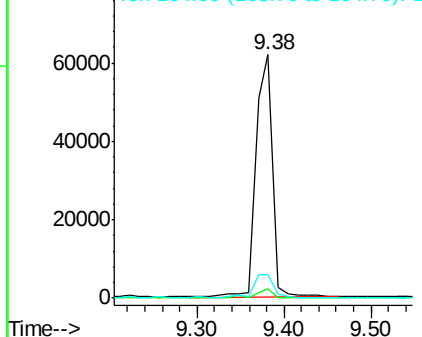
Lab File: BF087081.D

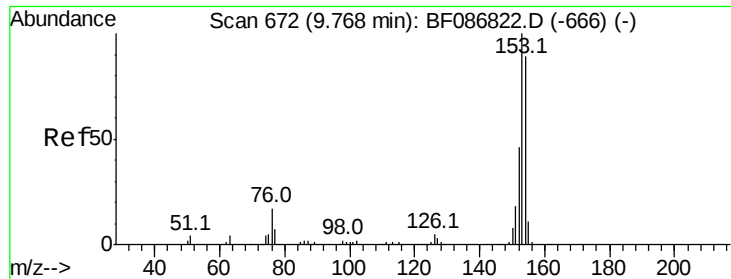
Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	83228		
194	3.9	2.6	4.0	
164	9.7	8.2	12.4	



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





#51

Acenaphthene

Concen: 2.05 ng

RT: 9.68 min Scan# 708

Delta R.T. 0.00 min

Lab File: BF087081.D

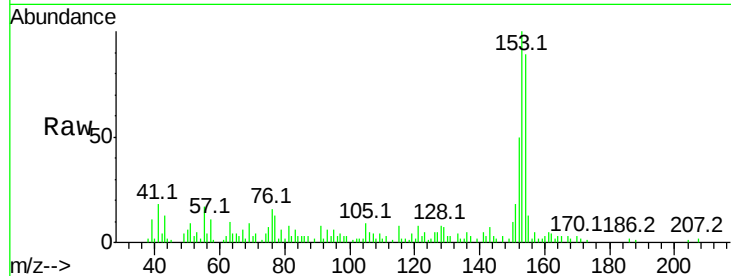
Acq: 16 May 2016 15:07

Instrument :

BNA_F

ClientSampleId :

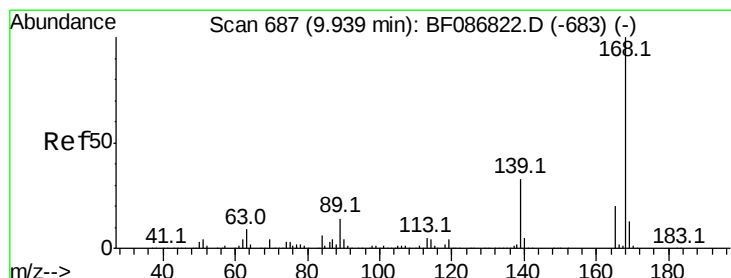
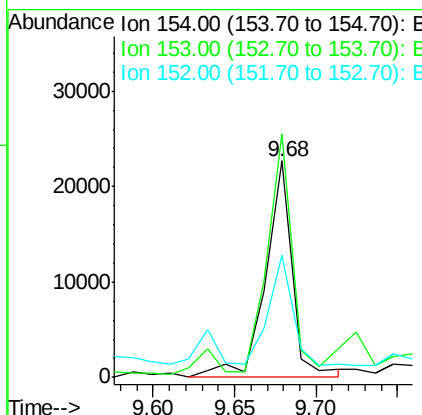
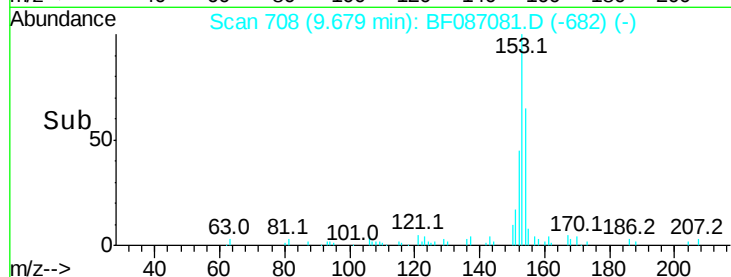
PM-STA-1335-00(0-3)RE



Tot Ion	154	Resp:	25991
Ion Ratio	Lower	Upper	
154	100		
153	112.4	89.8	134.6
152	56.4	43.4	65.0

Manual Integrations
APPROVED

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#54

Dibenzofuran

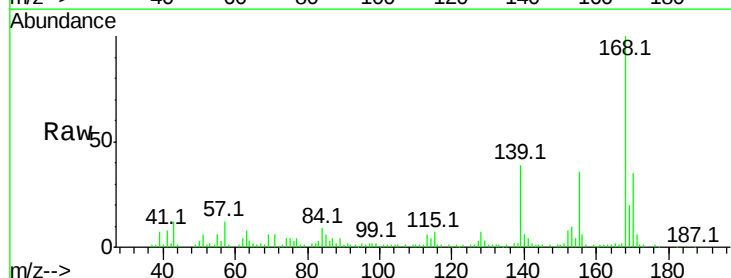
Concen: 4.14 ng

RT: 9.85 min Scan# 723

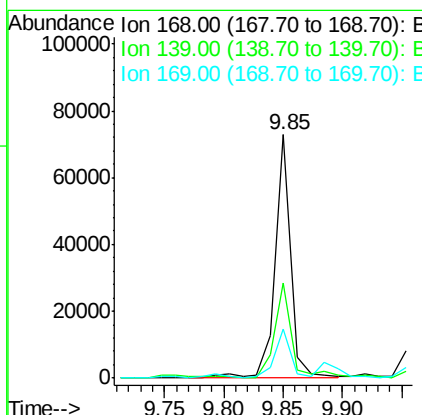
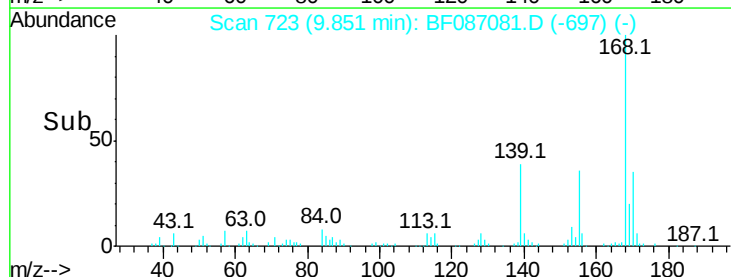
Delta R.T. 0.00 min

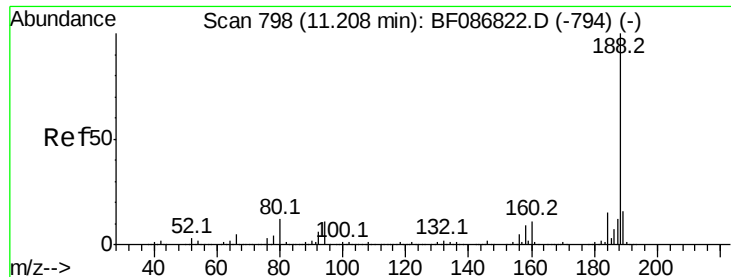
Lab File: BF087081.D

Acq: 16 May 2016 15:07



Tgt Ion	168	Resp:	67378
Ion Ratio	Lower	Upper	
168	100		
139	38.9	31.4	47.0
169	20.2	10.7	16.1#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.12 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Instrument :

BNA_F

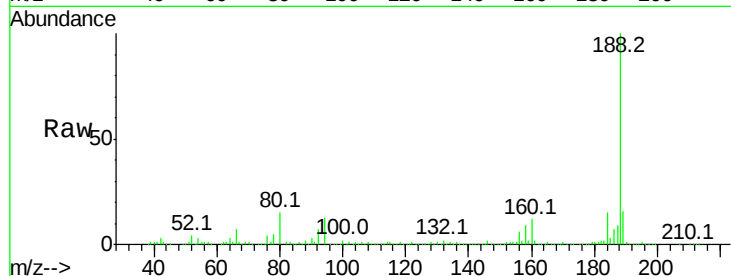
ClientSampleId :

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

Tot Ion:	188	Resp:	335145
Ion Ratio	Lower	Upper	
188	100		
94	13.3	6.8	10.2#
80	14.6	7.1	10.7#

Manual Integrations
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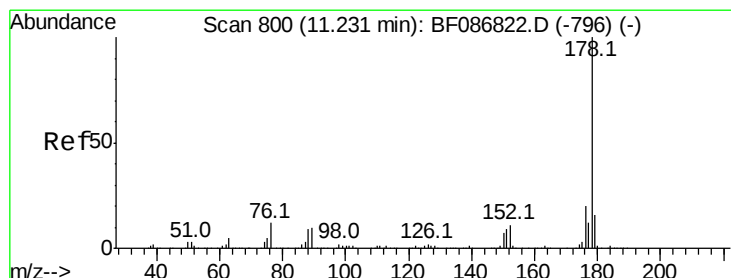
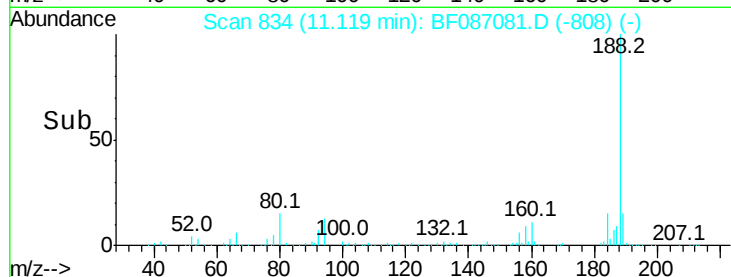
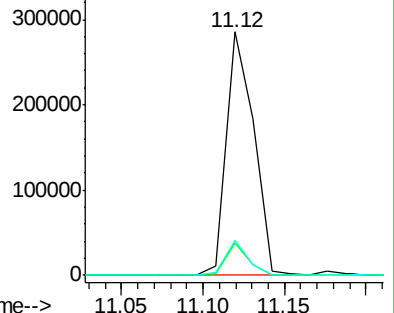
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 49.63 ng

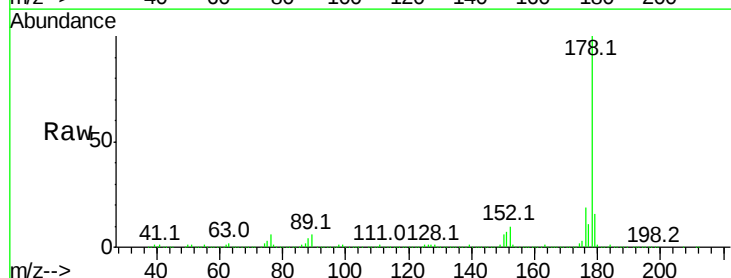
RT: 11.15 min Scan# 837

Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

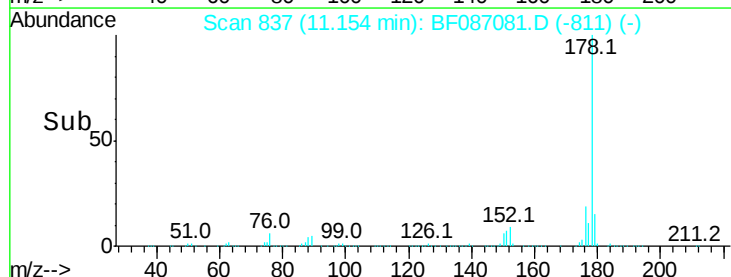
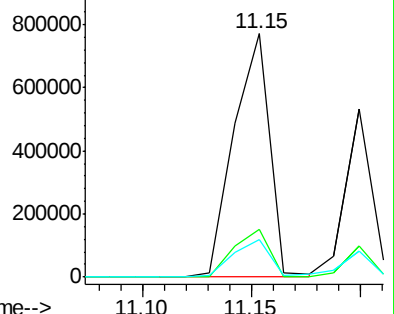
Tgt Ion:	178	Resp:	887623
Ion Ratio	Lower	Upper	
178	100		
176	19.5	16.0	24.0
179	15.5	12.6	18.8

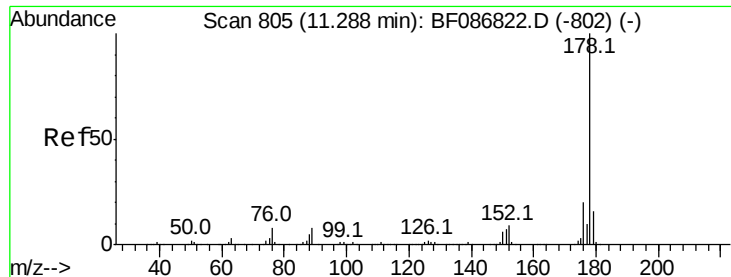


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





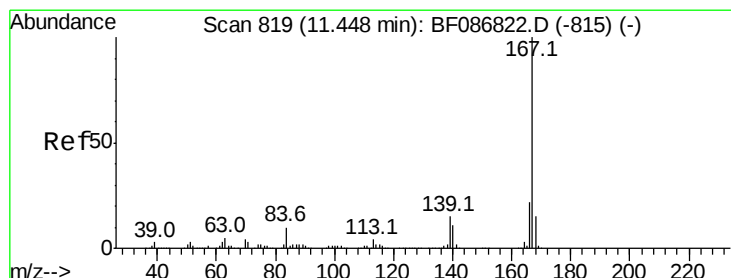
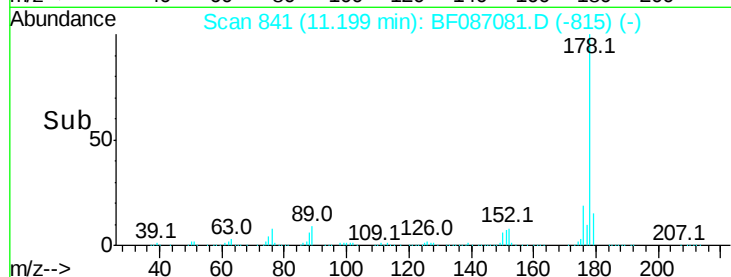
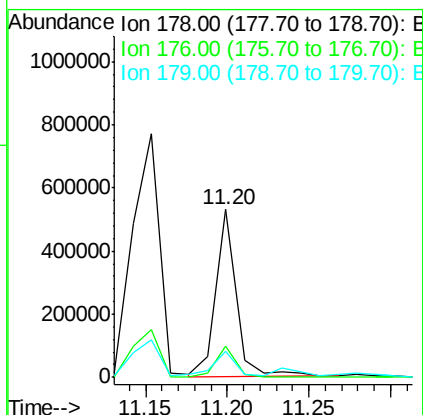
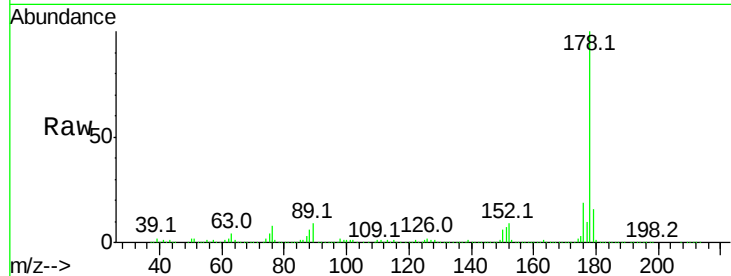
#71
 Anthracene
 Concen: 25.01 ng
 RT: 11.20 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: BF087081.D
 Acq: 16 May 2016 15:07

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.6	23.4
179	15.7	12.7	19.1

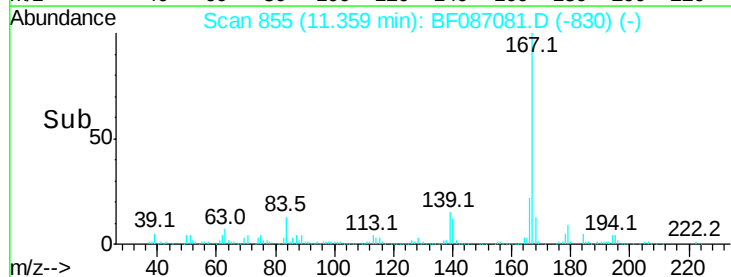
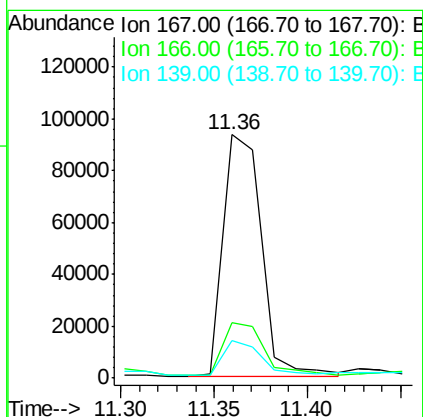
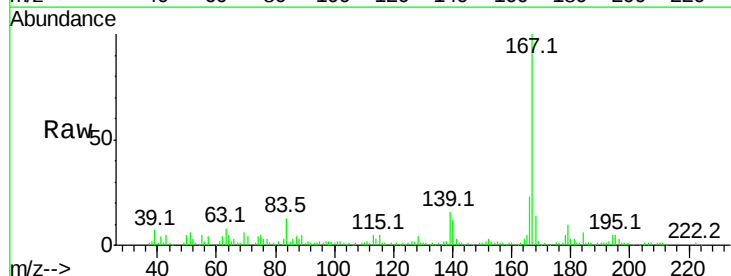
Manual Integrations
 APPROVED

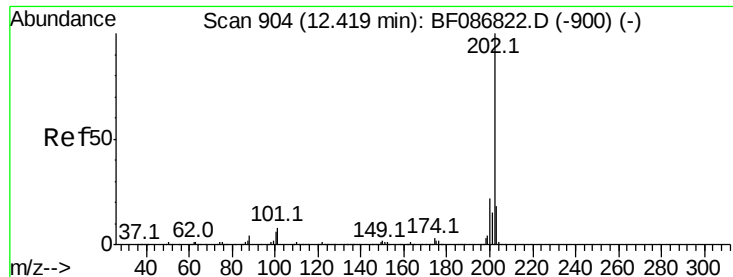
umangi
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#72
 Carbazole
 Concen: 8.50 ng
 RT: 11.36 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: BF087081.D
 Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.7	26.5
139	15.5	10.8	16.2





#74

Fluoranthene

Concen: 102.94 ng

RT: 12.34 min Scan# 941

Delta R.T. 0.01 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Instrument :

BNA_F

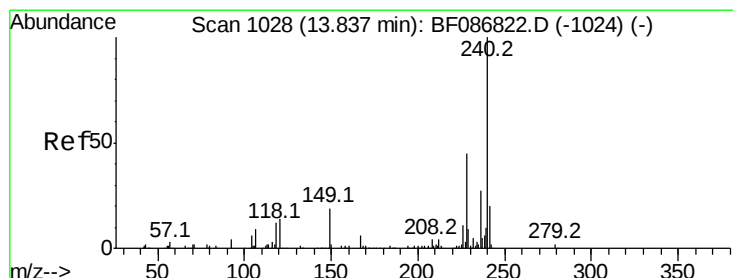
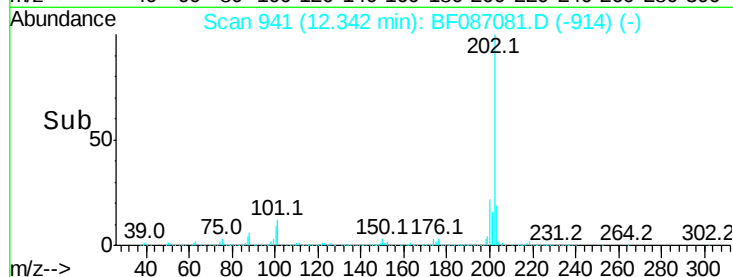
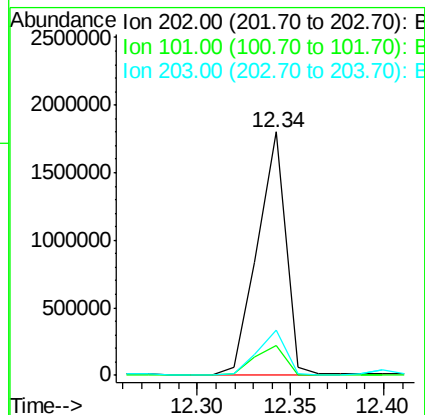
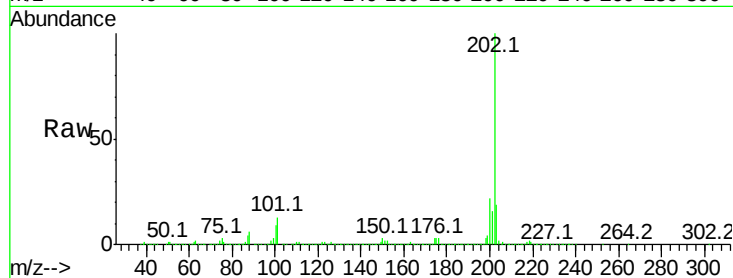
ClientSampleId :

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

Tot Ion:	202	Resp:	1893597
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	35.4
203	18.6	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

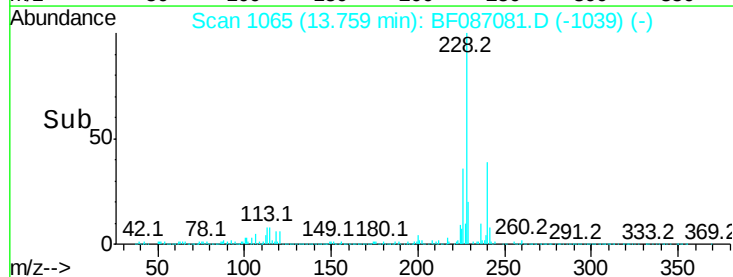
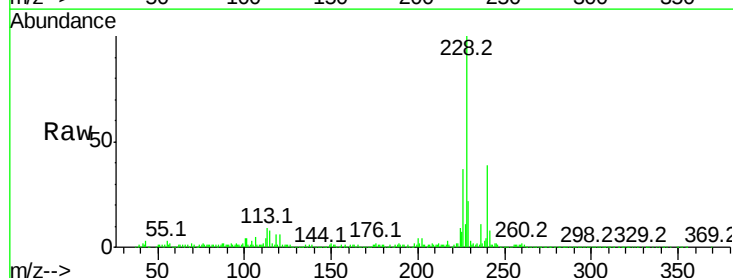
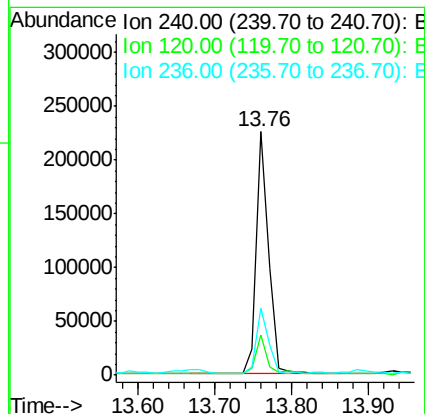
RT: 13.76 min Scan# 1065

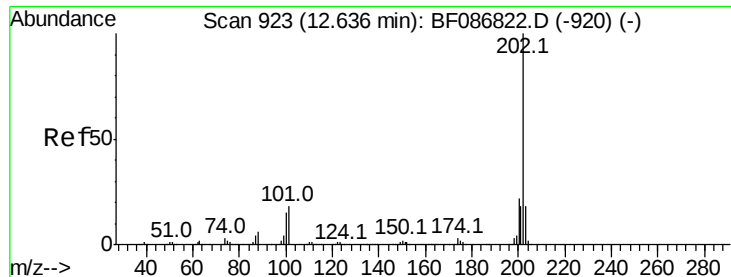
Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Tgt Ion:	240	Resp:	251689
Ion Ratio	Lower	Upper	
240	100		
120	16.5	11.2	16.8
236	27.3	21.2	31.8





#77

Pvrene

Concen: 89.49 ng

RT: 12.57 min Scan# 961

Delta R.T. 0.01 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Instrument :

BNA_F

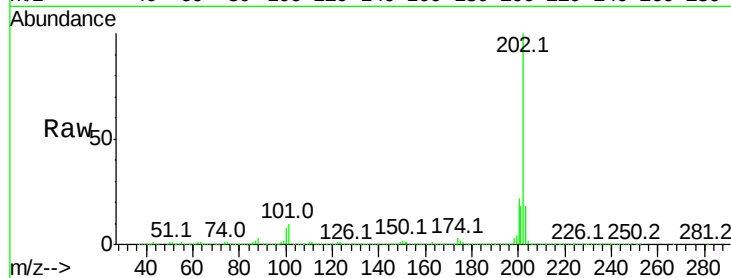
ClientSampleId :

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

Tot Ion:202	Resp: 1724429
Ion Ratio	Lower Upper
202 100	
200 22.1	17.7 26.5
203 18.0	14.2 21.4

Manual Integrations
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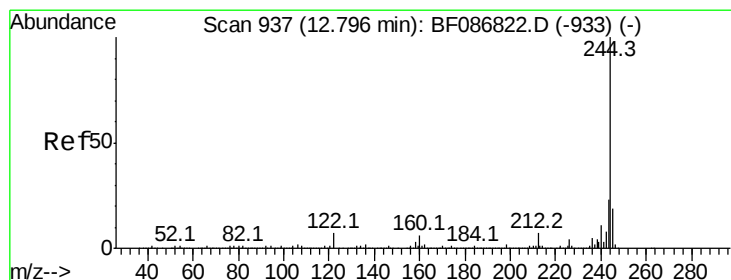
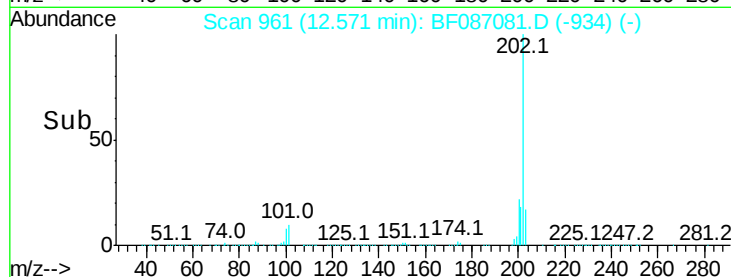
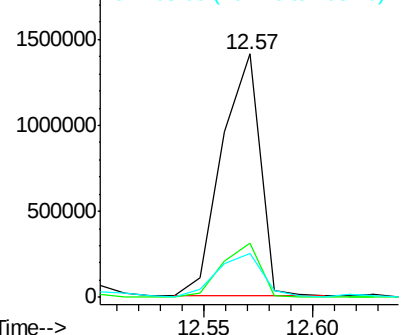
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 74.39 ng

RT: 12.71 min Scan# 973

Delta R.T. 0.00 min

Lab File: BF087081.D

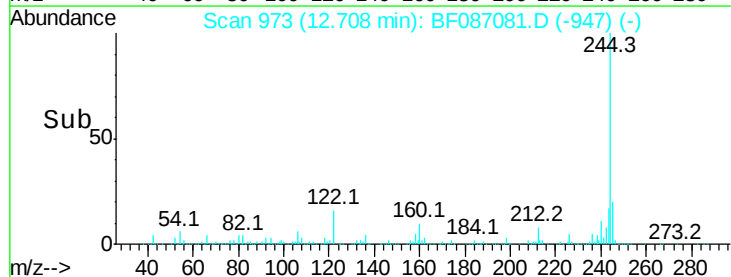
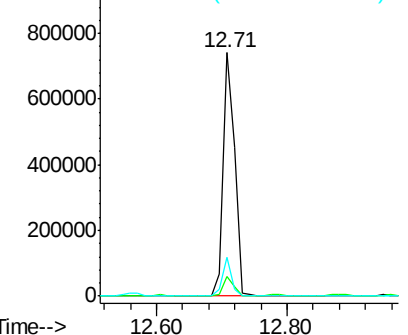
Acq: 16 May 2016 15:07

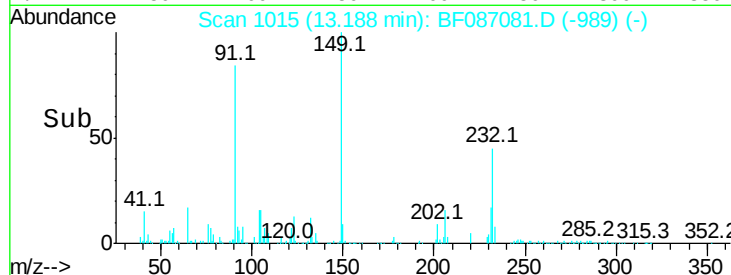
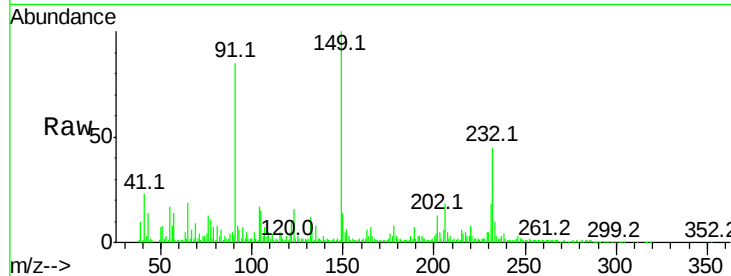
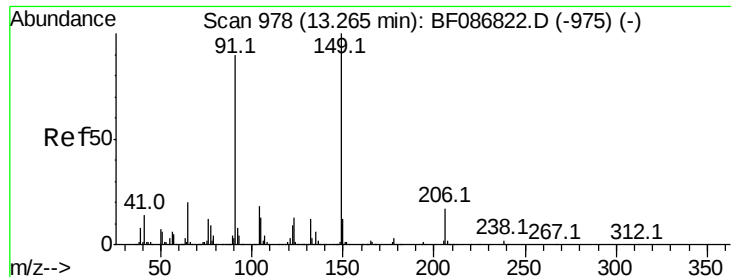
Tgt Ion:244	Resp: 882409
Ion Ratio	Lower Upper
244 100	
212 8.2	6.2 9.2
122 15.7	12.0 18.0

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





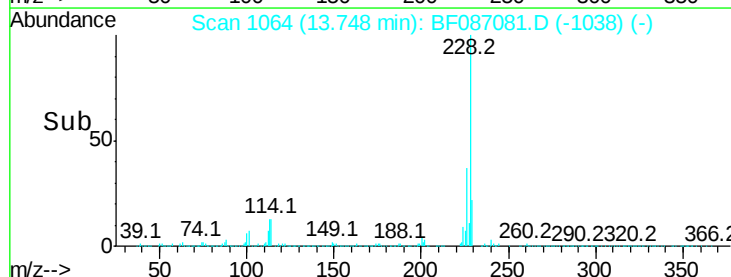
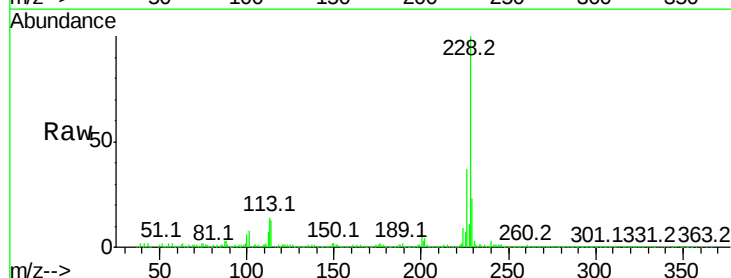
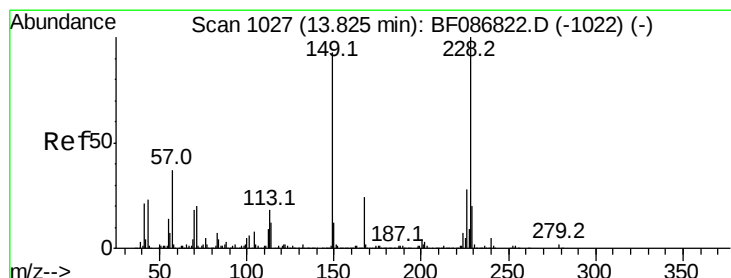
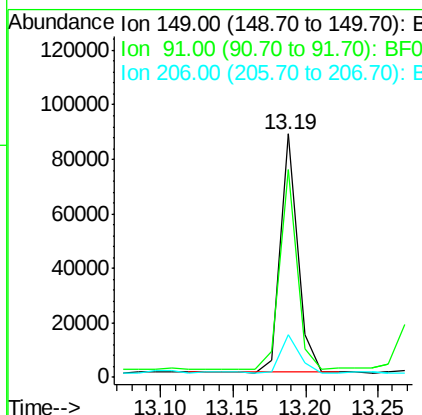
#79
Butylbenzylphthalate
Concen: 8.99 ng
RT: 13.19 min Scan# 1015
Delta R.T. 0.00 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

Tot Ion	Ratio	Lower	Upper
149	100		
91	85.5	48.0	72.0#
206	17.8	15.8	23.6

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

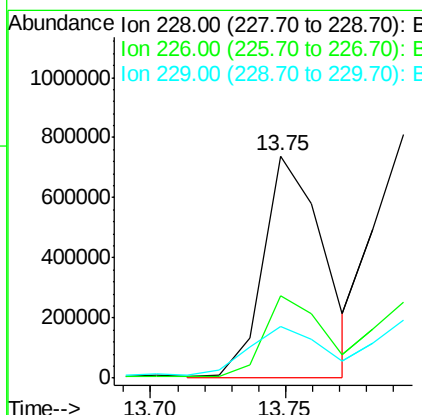
Manual Integrations
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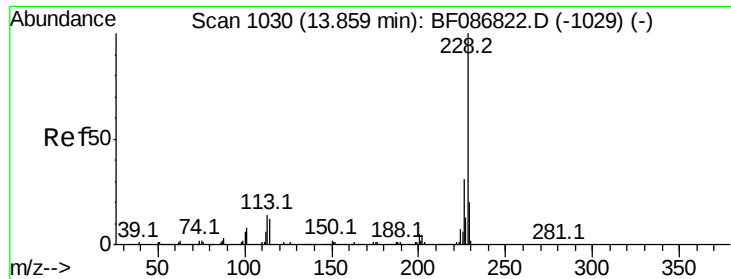
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#80
Benzo(a)anthracene
Concen: 81.56 ng m
RT: 13.75 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.2	22.5	33.7#
229	23.0	16.6	25.0





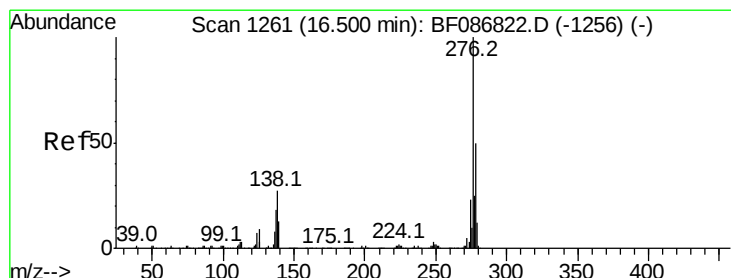
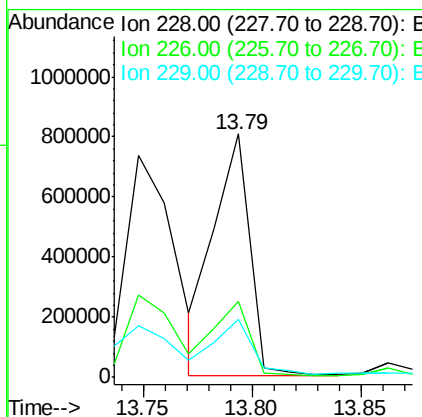
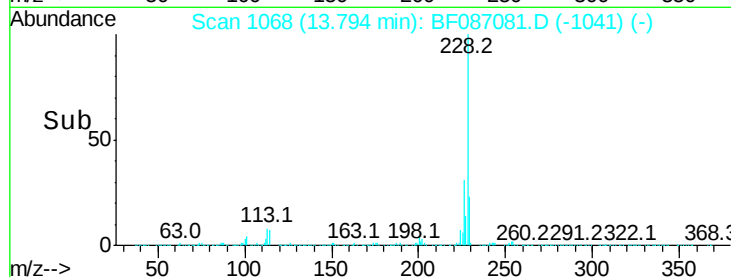
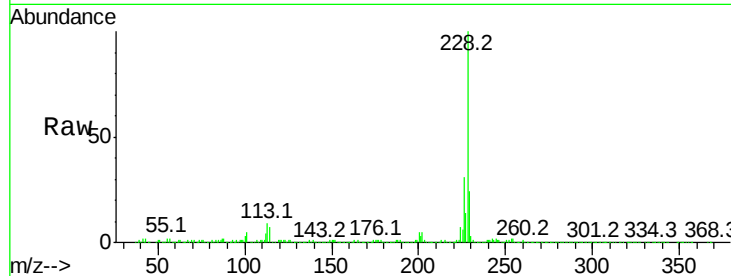
#82
Chrysene
Concen: 64.25 ng
RT: 13.79 min Scan# 1068
Delta R.T. 0.01 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

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

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.4	36.6
229	23.7	15.8	23.8

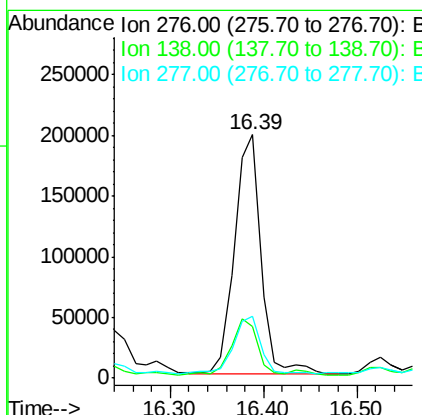
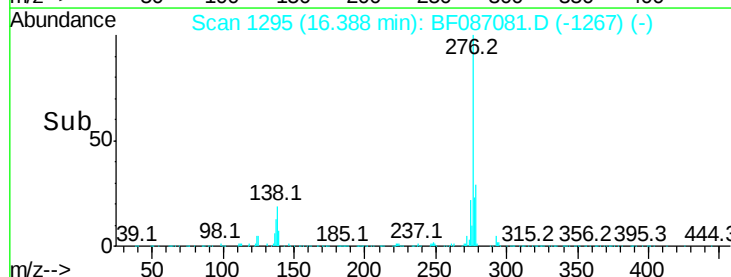
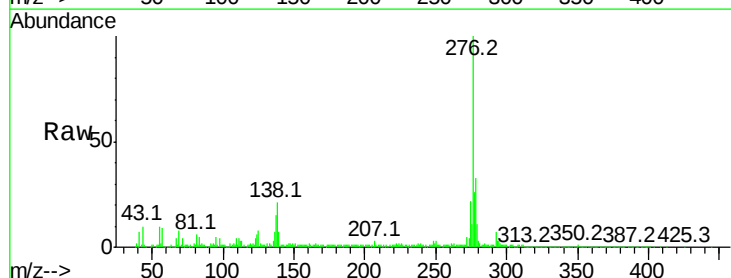
Manual Integrations
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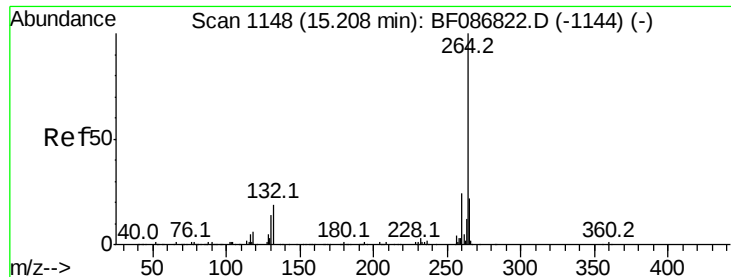
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#85
Indeno(1,2,3-cd)pyrene
Concen: 32.66 ng
RT: 16.39 min Scan# 1295
Delta R.T. 0.02 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.5	25.6	38.4#
277	24.5	20.5	30.7





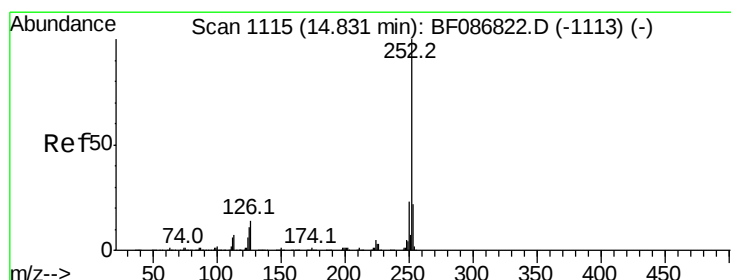
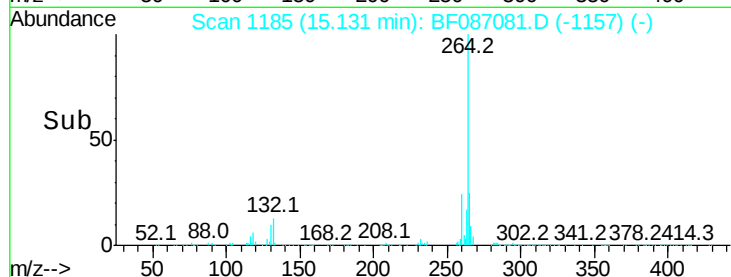
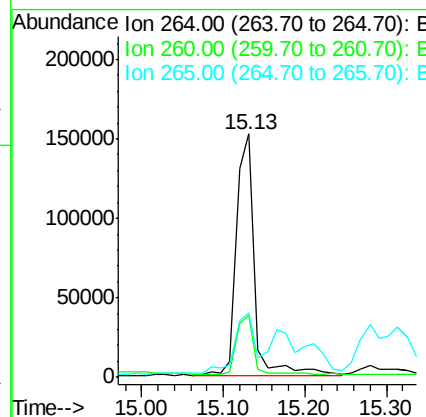
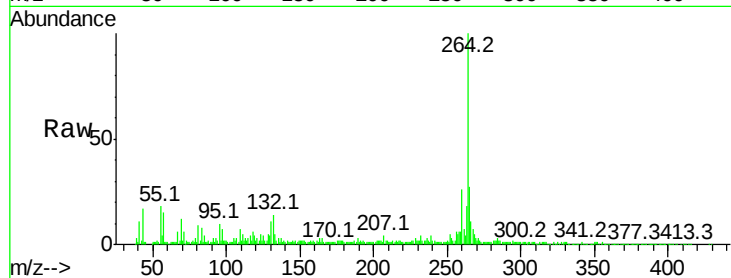
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.13 min Scan# 1185
Delta R.T. 0.02 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

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

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.6	19.5	29.3
265	26.7	17.3	25.9

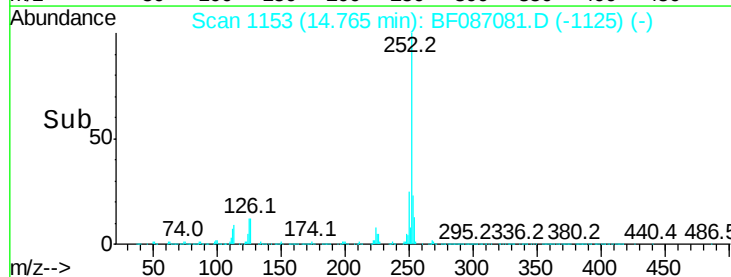
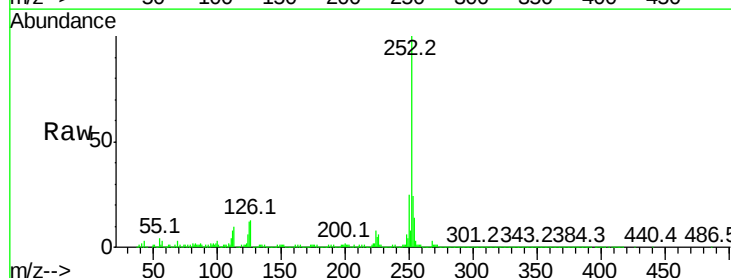
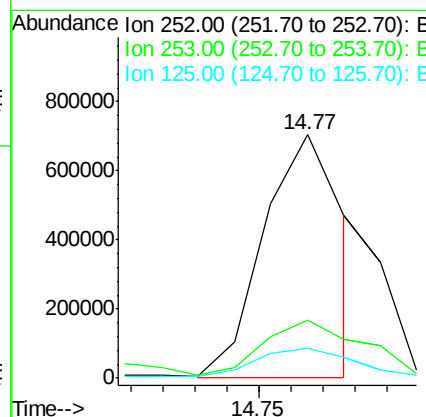
Manual Integrations
APPROVED

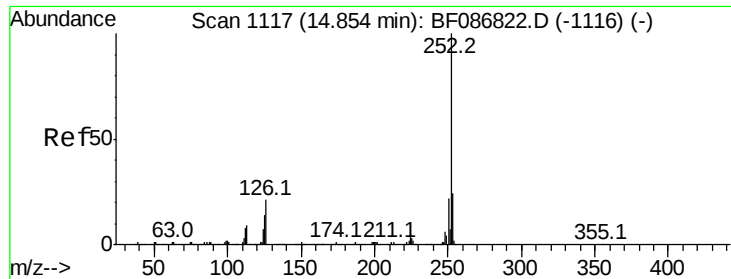
umangi
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#87
Benzo(b)fluoranthene
Concen: 80.38 ng m
RT: 14.77 min Scan# 1153
Delta R.T. 0.02 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	12.2	11.4	17.0





#88

Benzo(k)fluoranthene

Concen: 20.07 ng

RT: 14.78 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

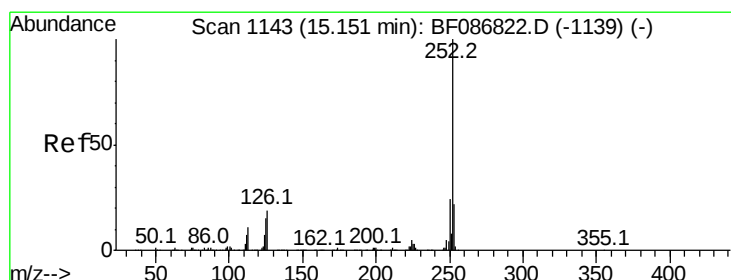
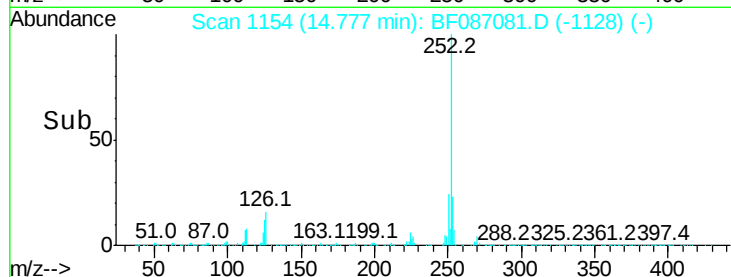
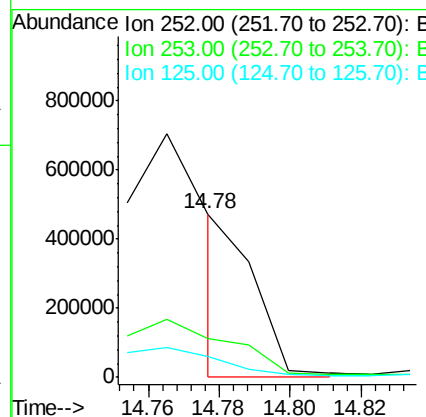
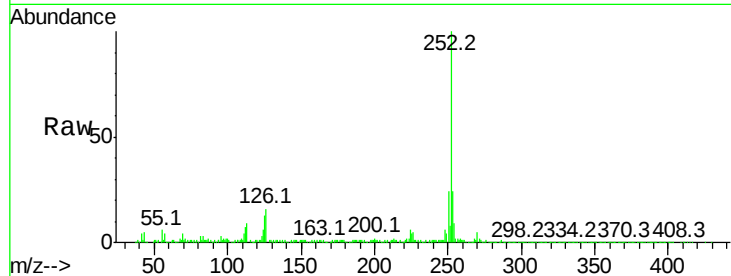
Instrument :
BNA_F

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

Tot Ion	Ratio	Resp	Lower	Upper
252	100	250950		
253	24.1	17.8	26.6	
125	13.1	9.1	13.7	

Manual Integrations
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umangi
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#89

Benzo(a)pyrene

Concen: 48.11 ng

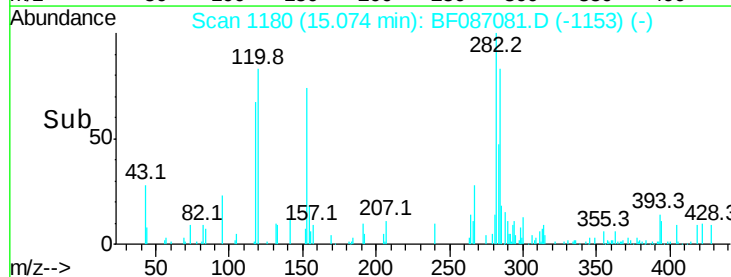
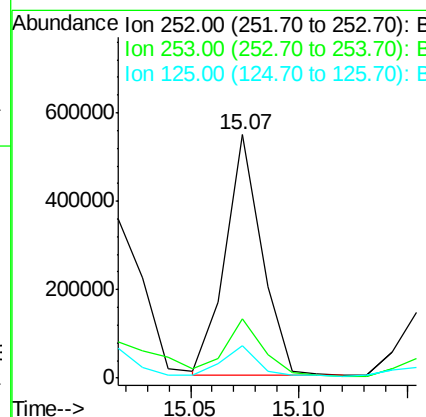
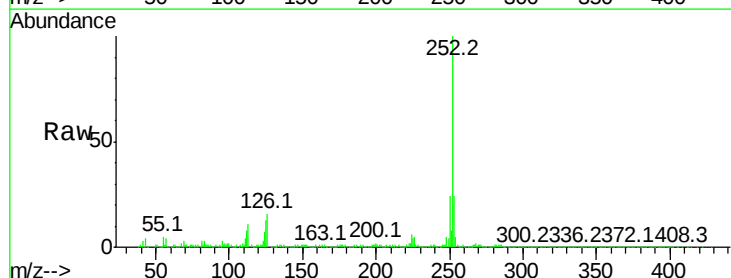
RT: 15.07 min Scan# 1180

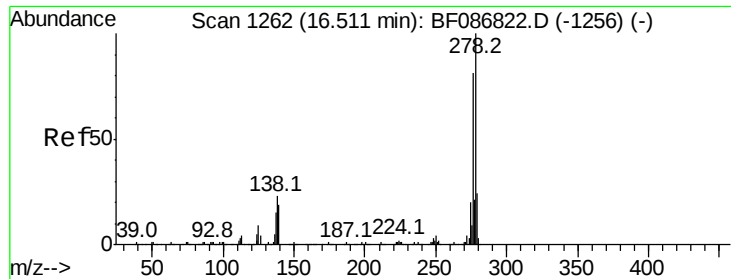
Delta R.T. 0.01 min

Lab File: BF087081.D

Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	633776		
253	24.3	17.2	25.8	
125	13.1	9.0	13.6	





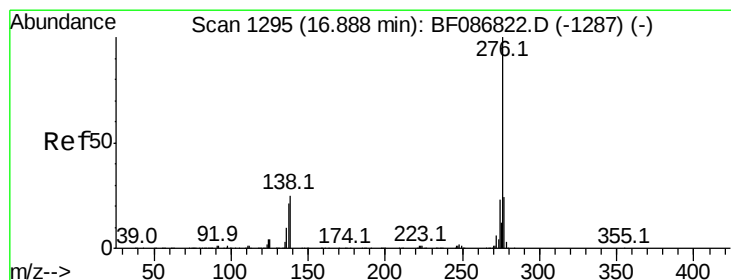
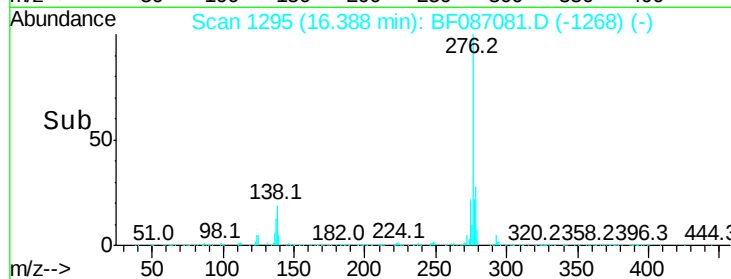
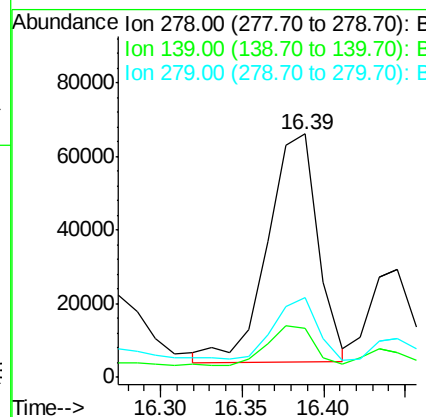
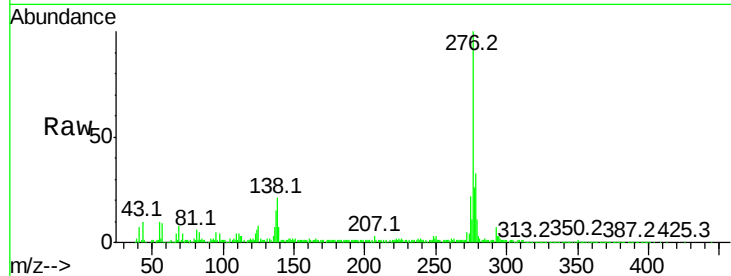
#90
Dibenzo(a,h)anthracene
Concen: 11.99 ng
RT: 16.39 min Scan# 1295
Delta R.T. 0.01 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

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

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.0	16.6	24.8
279	33.0	19.6	29.4

Manual Integrations
APPROVED

umangi
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#91
Benzo(g,h,i)perylene
Concen: 27.38 ng
RT: 16.77 min Scan# 1328
Delta R.T. 0.02 min
Lab File: BF087081.D
Acq: 16 May 2016 15:07

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.6	29.4
138	20.6	23.6	35.4

