

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051916\
 Data File : BF087203.D
 Acq On : 19 May 2016 23:03
 Operator : UM/SJ
 Sample : H3132-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FB-BWR-BB-R10-C5-2(0-19FT)

Manual Integrations
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Quant Time: May 20 03:51:04 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 20 03:23:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.57	152	143034	20.00	ng	0.00
21) Naphthalene-d8	7.85	136	570183	20.00	ng	-0.01
38) Acenaphthene-d10	9.60	164	247308	20.00	ng	0.00
63) Phenanthrene-d10	11.07	188	389000	20.00	ng	-0.01
75) Chrysene-d12	13.71	240	264457	20.00	ng	0.00
86) Perylene-d12	15.06	264	275665	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.16	112	1224386	143.88	ng	0.02
7) Phenol-d6	6.24	99	1407822	123.35	ng	0.00
23) Nitrobenzene-d5	7.14	82	945891	82.68	ng	-0.01
41) 2,4,6-Tribromophenol	10.40	330	325071	118.95	ng	0.00
44) 2-Fluorobiphenyl	8.94	172	1364351	91.37	ng	0.00
78) Terphenyl-d14	12.66	244	845852	72.35	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	7.87	128	59429	2.13	ng	99
48) Acenaphthylene	9.46	152	77435	3.22	ng	97
49) Dimethylphthalate	9.34	163	217080	11.51	ng	99
51) Acenaphthene	9.63	154	69724	4.64	ng	99
54) Dibenzofuran	9.80	168	43415	2.24	ng	# 91
57) Fluorene	10.15	166	89609	5.74	ng	99
70) Phenanthrene	11.11	178	1011210	47.93	ng	99
71) Anthracene	11.15	178	308566	14.46	ng	99
72) Carbazole	11.33	167	39386	2.02	ng	98
74) Fluoranthene	12.29	202	1032949	48.87	ng	98
77) Pyrene	12.51	202	1204183	63.03	ng	99
80) Benzo(a)anthracene	13.70	228	649968	42.51	ng	98
82) Chrysene	13.74	228	549953m	37.17	ng	
85) Indeno(1,2,3-cd)pyrene	16.29	276	216308	16.66	ng	# 90
87) Benzo(b)fluoranthene	14.70	252	523791m	28.64	ng	
88) Benzo(k)fluoranthene	14.71	252	253309m	18.61	ng	
89) Benzo(a)pyrene	15.01	252	448466	29.34	ng	96
90) Dibenzo(a,h)anthracene	16.29	278	55284m	4.30	ng	
91) Benzo(g,h,i)perylene	16.65	276	200865	15.45	ng	95

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

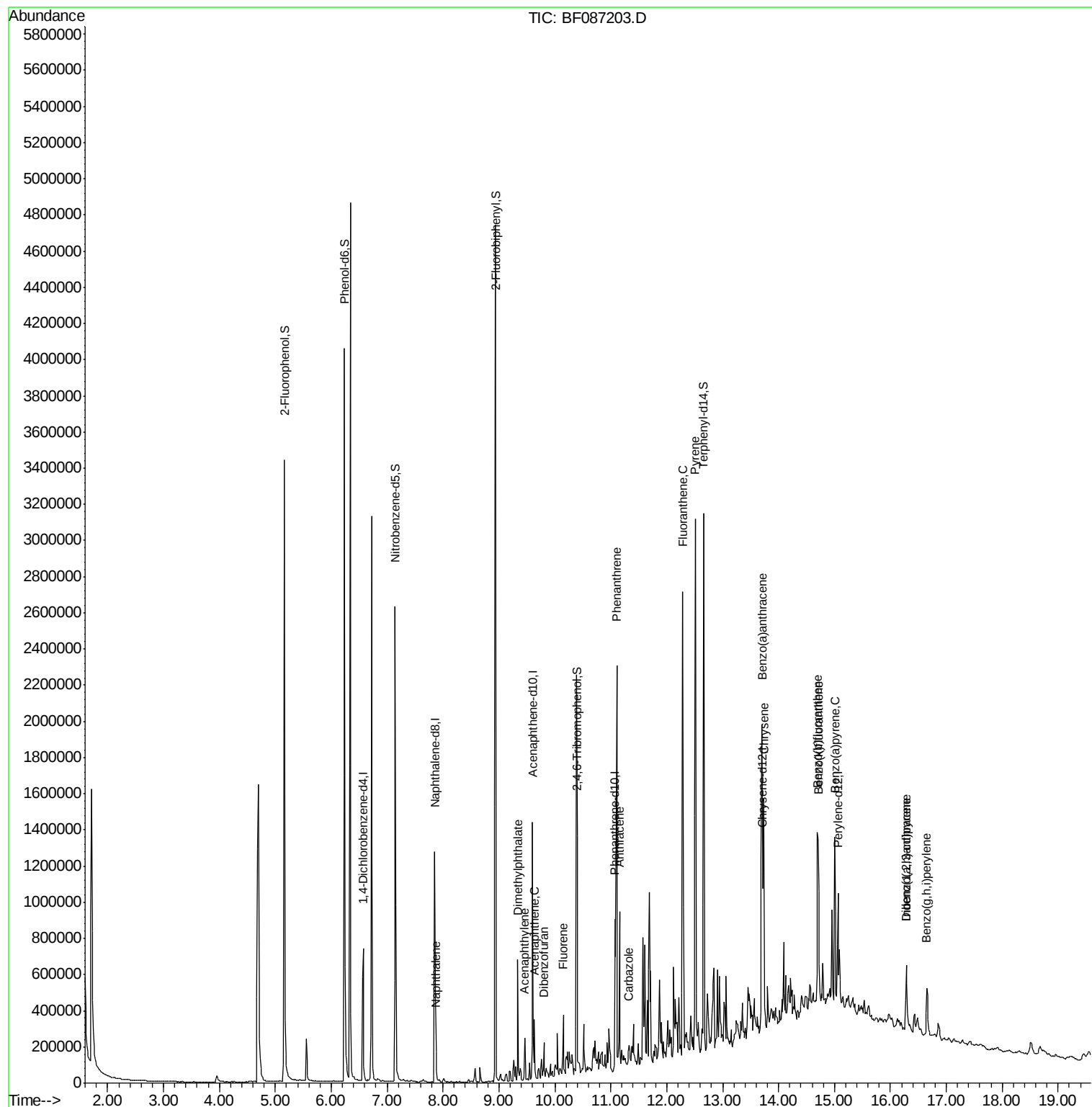
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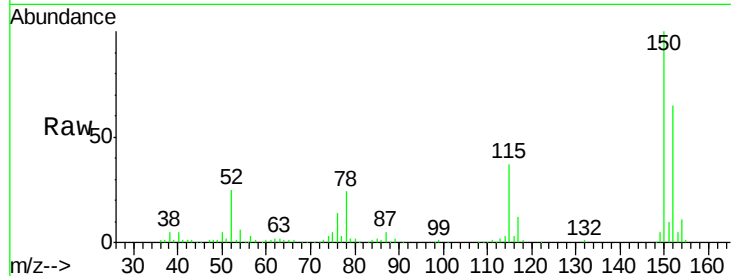




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.57 min Scan# 436
Delta R.T. -0.00 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

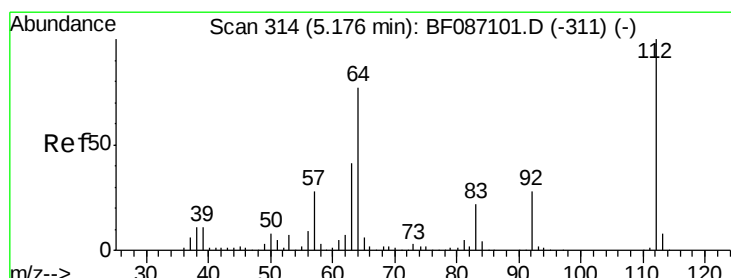
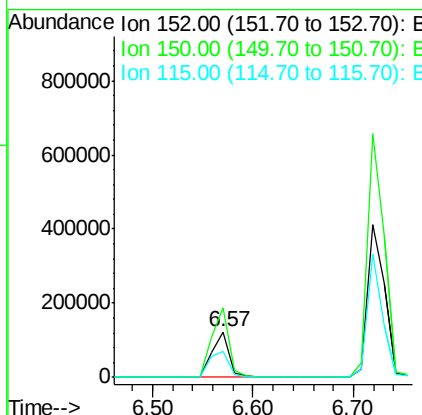
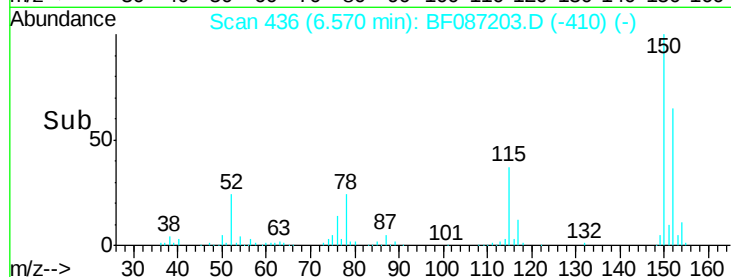
Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C5-2(0-19FT)



Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.1	125.8	188.6
115	57.0	51.5	77.3

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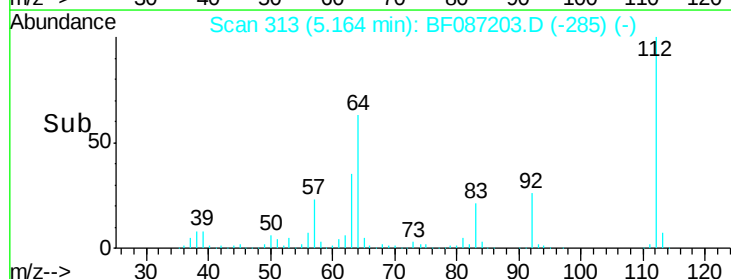
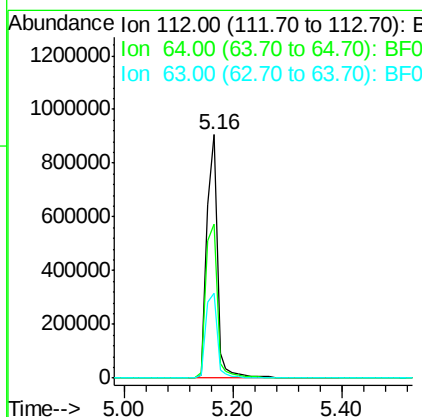
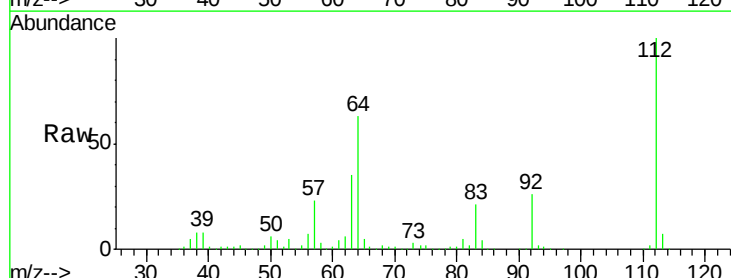
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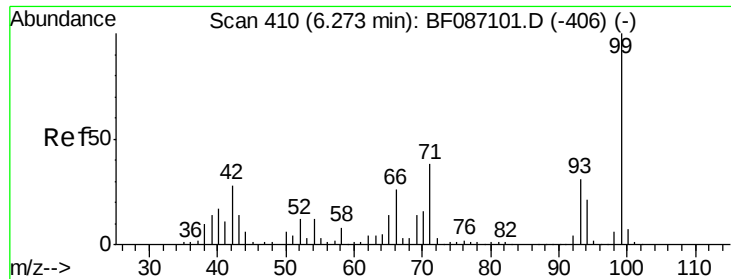


#5

2-Fluorophenol
Concen: 143.88 ng
RT: 5.16 min Scan# 313
Delta R.T. 0.02 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.2	52.1	78.1
63	34.9	25.7	38.5





#7

Phenol-d6

Concen: 123.35 ng

RT: 6.24 min Scan# 407

Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C5-2(0-19FT)

Tgt Ion: 99 Resp: 1407822

Ion Ratio Lower Upper

99 100

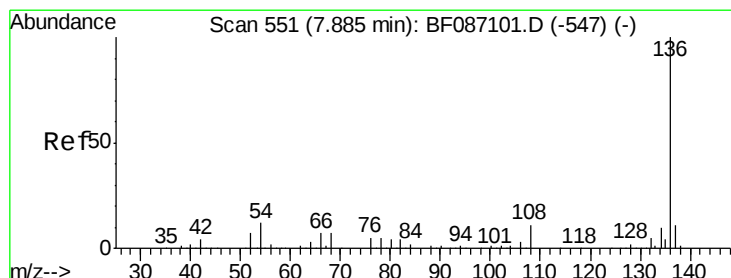
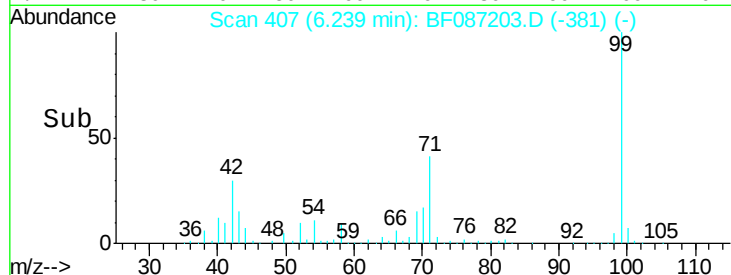
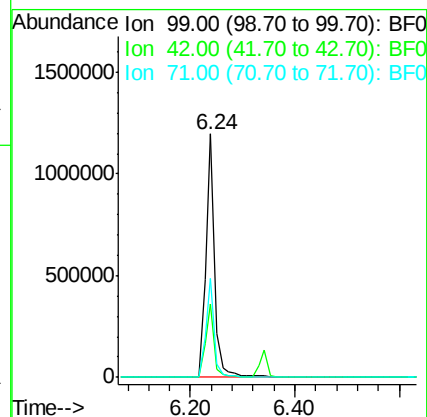
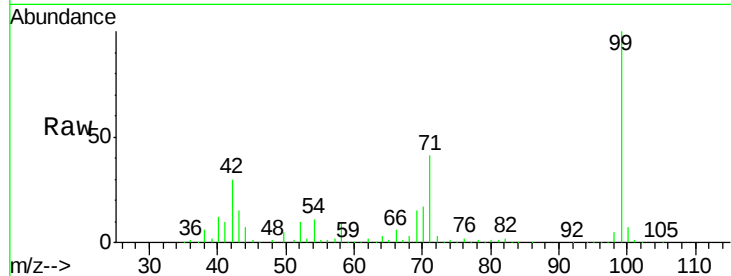
42 29.9 13.6 20.4#

71 40.7 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.85 min Scan# 548

Delta R.T. -0.01 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Tgt Ion: 136 Resp: 570183

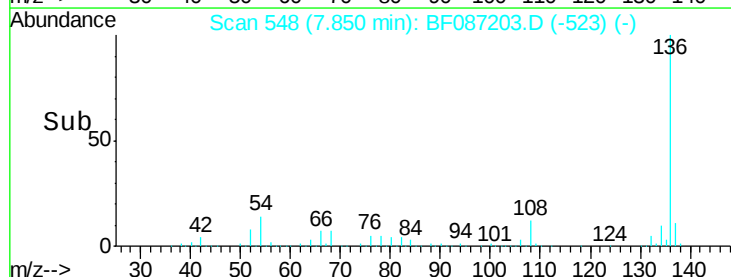
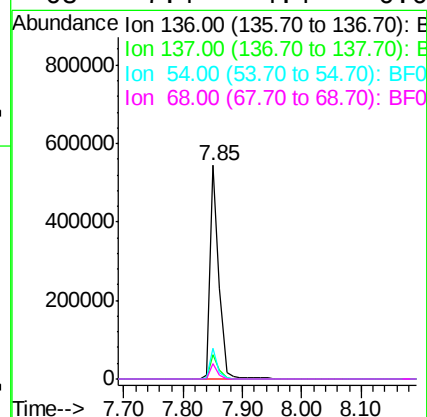
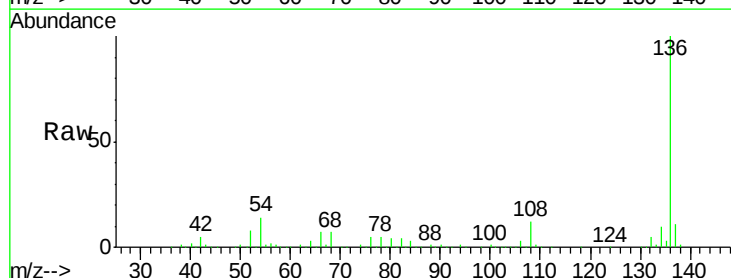
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 14.4 5.0 7.4#

68 7.4 4.4 6.6#





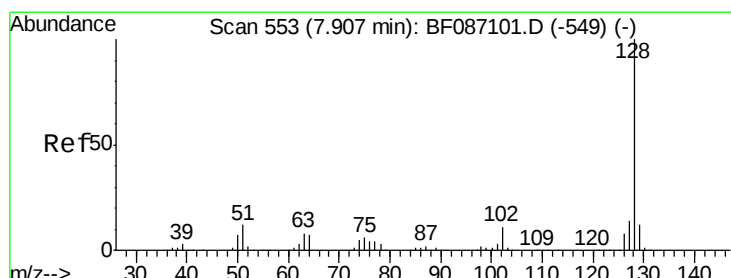
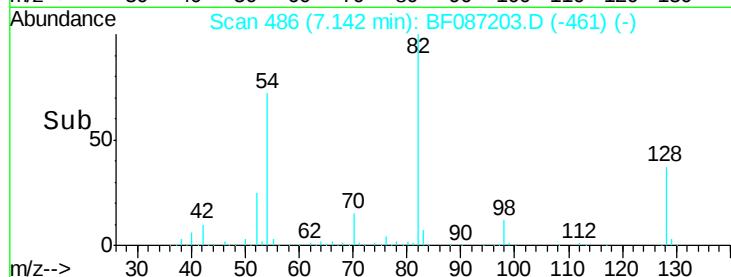
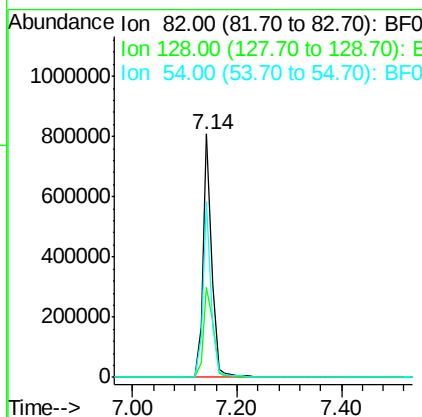
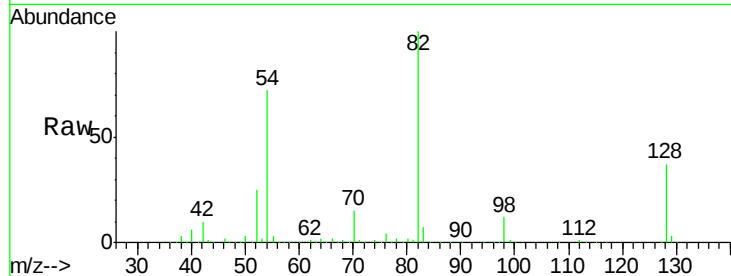
#23
 Nitrobenzene-d5
 Concen: 82.68 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.01 min
 Lab File: BF087203.D
 Acq: 19 May 2016 23:03

Instrument :
 BNA_F
 ClientSampleId :
 FB-BWR-BB-R10-C5-2(0-19FT)

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	37.1	40.6	61.0#
54	72.0	38.1	57.1#

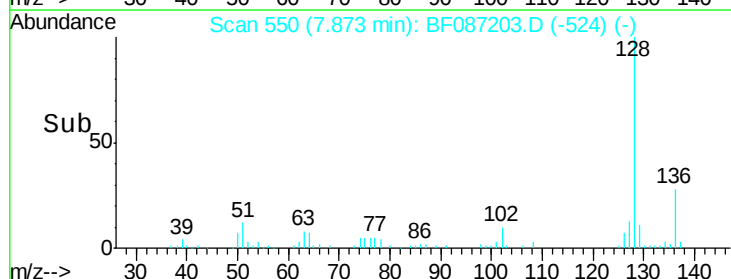
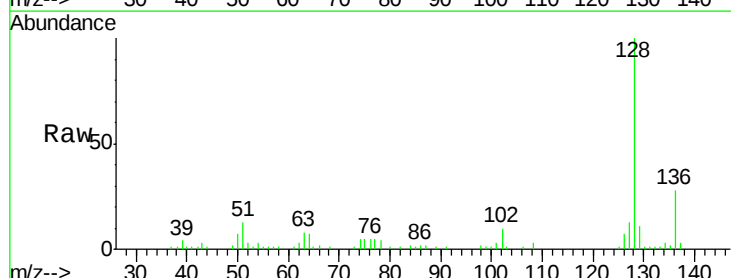
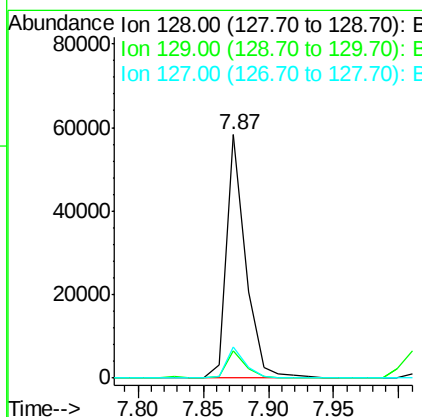
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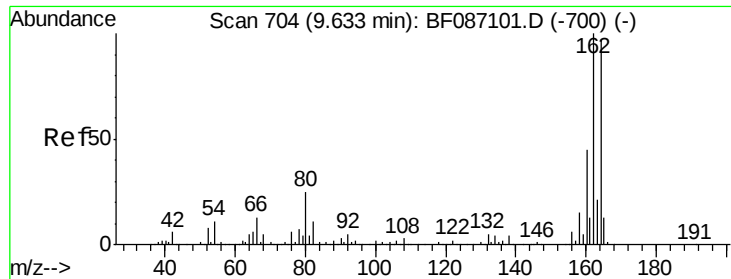
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#31
 Naphthalene
 Concen: 2.13 ng
 RT: 7.87 min Scan# 550
 Delta R.T. -0.00 min
 Lab File: BF087203.D
 Acq: 19 May 2016 23:03

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	11.1	8.6	13.0
127	12.7	10.8	16.2





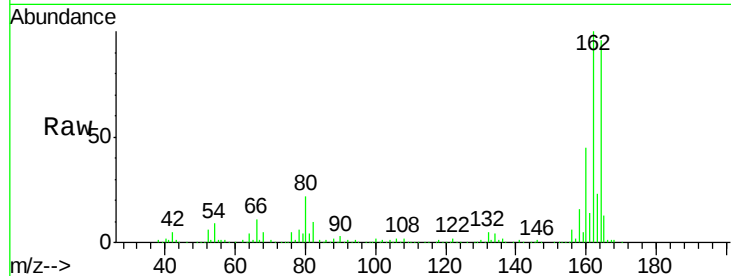
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.60 min Scan# 701
Delta R.T. -0.00 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C5-2(0-19FT)

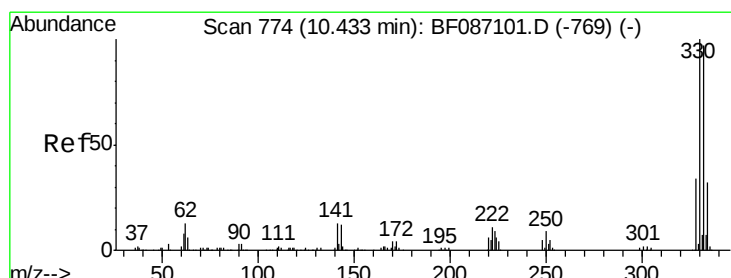
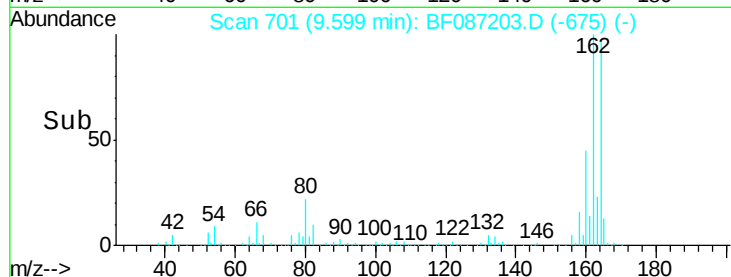
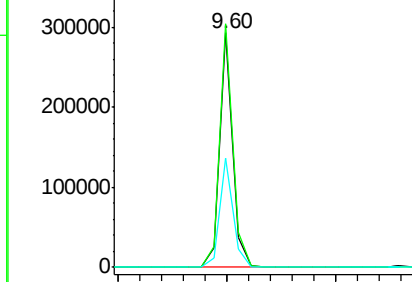
Tgt Ion	Ratio	Resp	Lower	Upper
164	100	247308		
162	103.8	82.8	124.2	
160	46.7	36.9	55.3	

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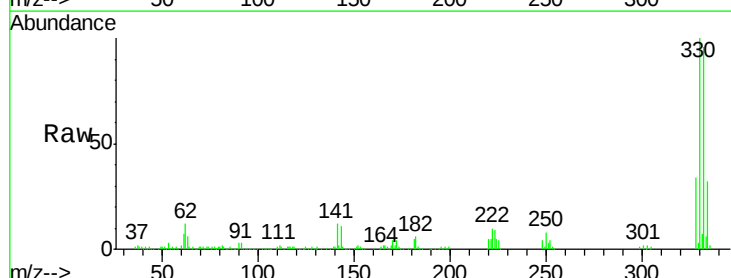


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

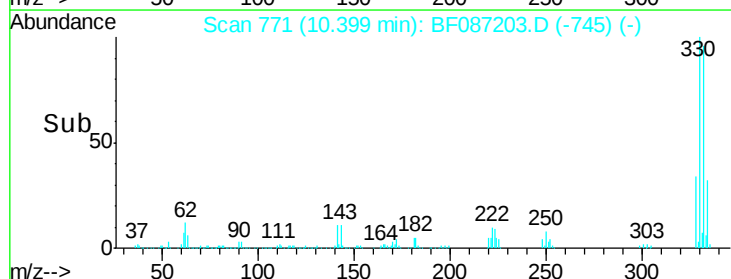
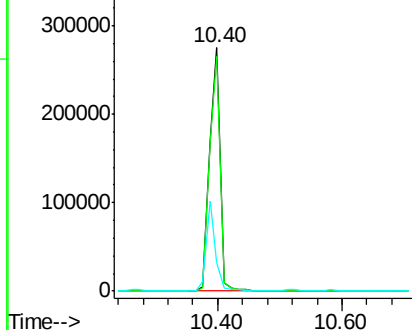


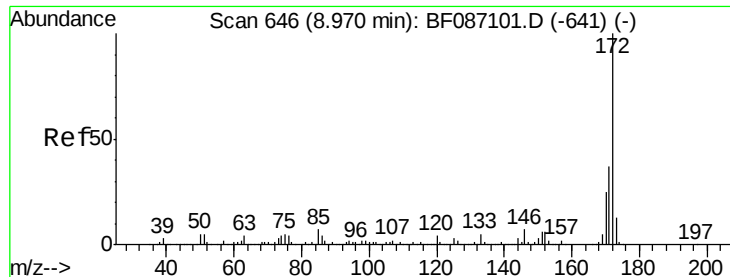
#41
2,4,6-Tribromophenol
Concen: 118.95 ng
RT: 10.40 min Scan# 771
Delta R.T. -0.00 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	325071		
332	96.9	79.0	118.4	
141	31.6	31.2	46.8	



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





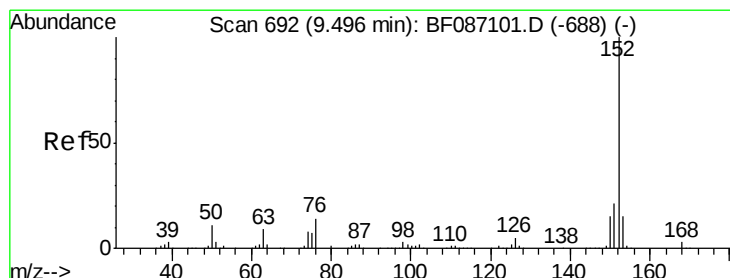
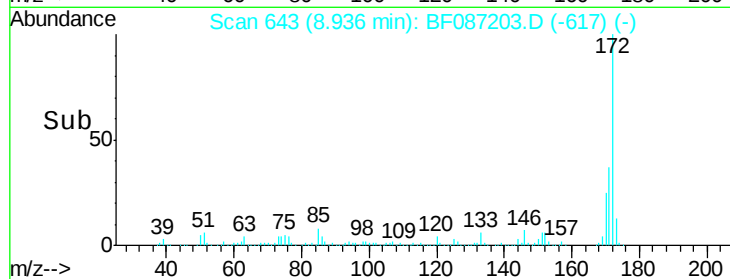
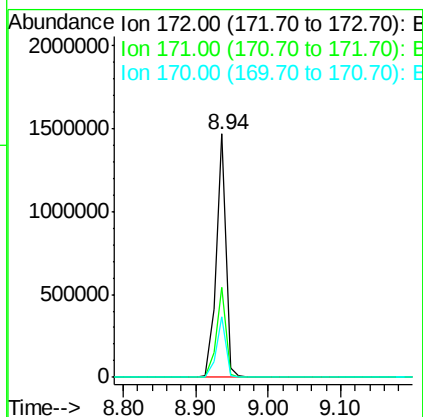
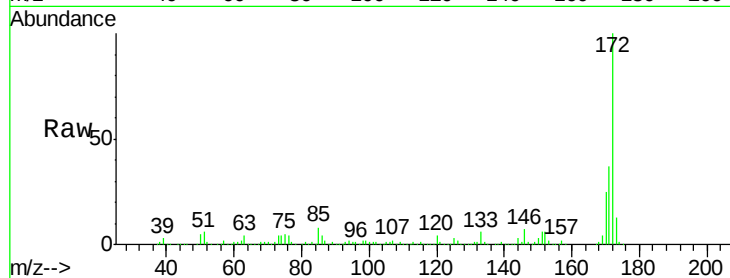
#44
 2-Fluorobiphenyl
 Concen: 91.37 ng
 RT: 8.94 min Scan# 643
 Delta R.T. -0.00 min
 Lab File: BF087203.D
 Acq: 19 May 2016 23:03

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 FB-BWR-BB-R10-C5-2(0-19FT)

Tgt Ion:	172	Resp:	1364351
Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.0	43.6
170	24.9	19.8	29.8

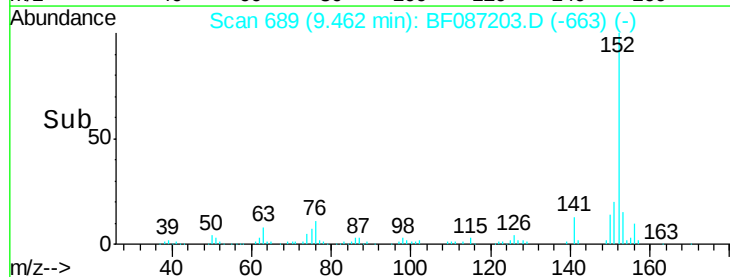
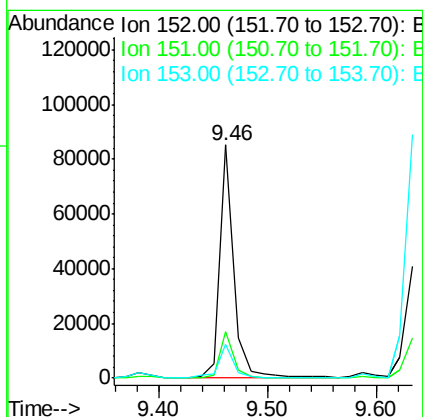
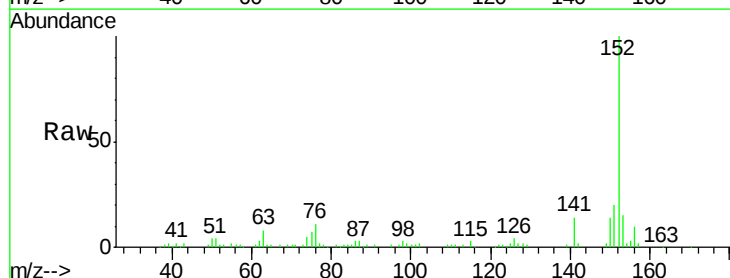
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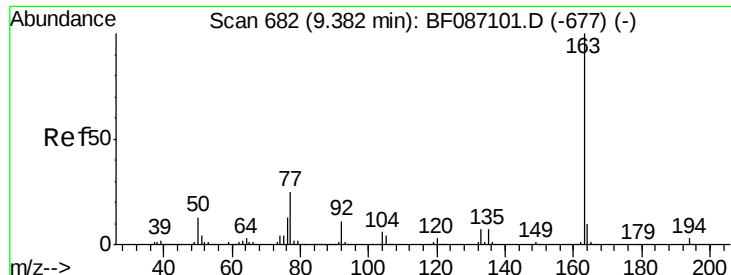
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#48
 Acenaphthylene
 Concen: 3.22 ng
 RT: 9.46 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: BF087203.D
 Acq: 19 May 2016 23:03

Tgt Ion:	152	Resp:	77435
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.8	25.2
153	14.7	10.9	16.3





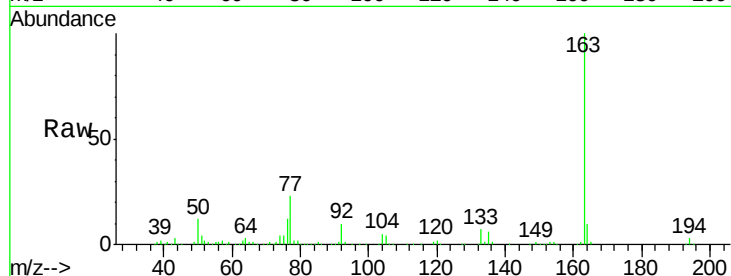
#49
Dimethylphthalate
Concen: 11.51 ng
RT: 9.34 min Scan# 678
Delta R.T. -0.01 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C5-2(0-19FT)

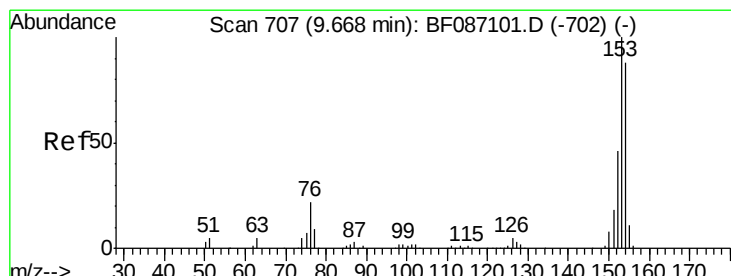
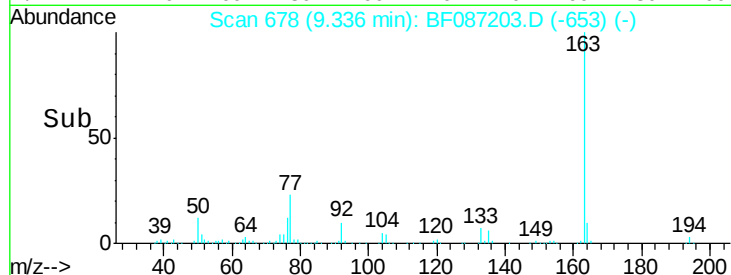
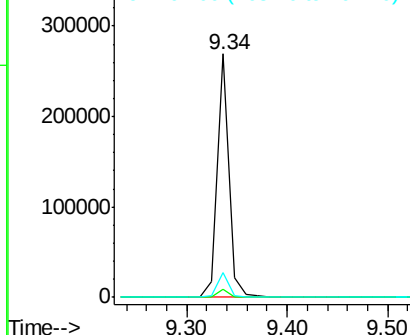
Tgt Ion	Ratio	Resp	Lower	Upper
163	100	217080		
194	3.1	2.6	4.0	
164	9.9	8.2	12.4	

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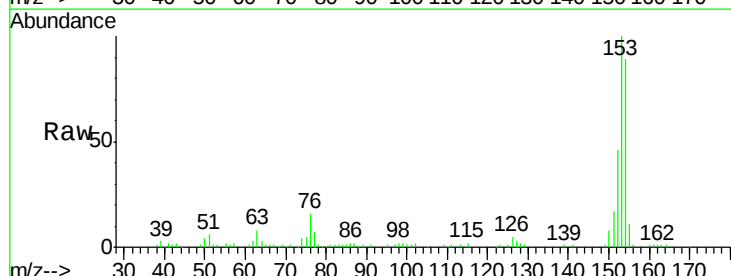


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

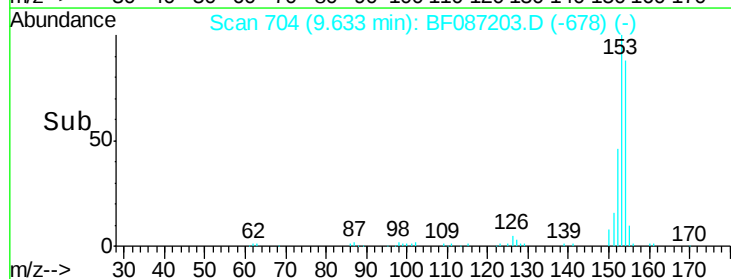
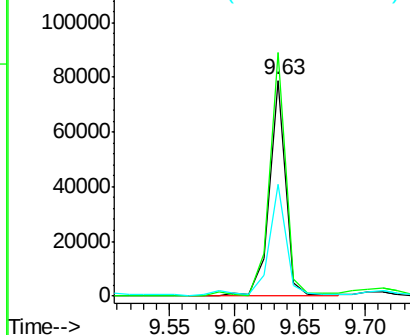


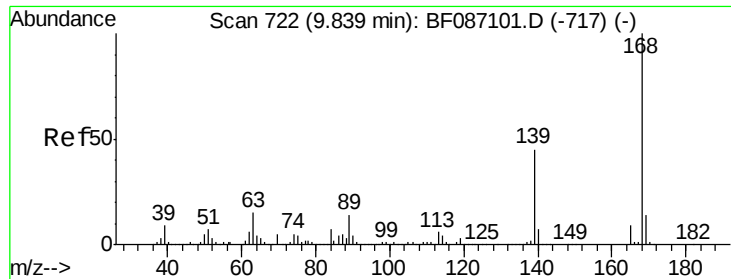
#51
Acenaphthene
Concen: 4.64 ng
RT: 9.63 min Scan# 704
Delta R.T. -0.00 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	69724		
153	112.7	89.8	134.6	
152	52.0	43.4	65.0	



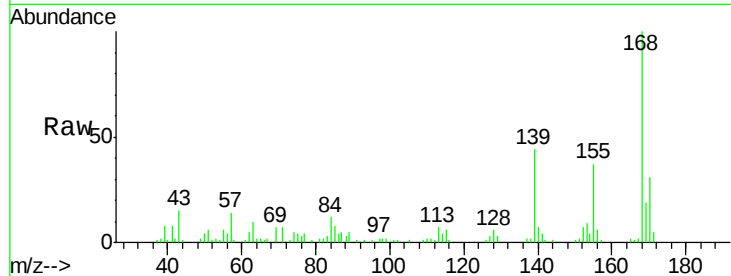
Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54
Dibenzenofuran
Concen: 2.24 ng
RT: 9.80 min Scan# 719
Delta R.T. -0.01 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

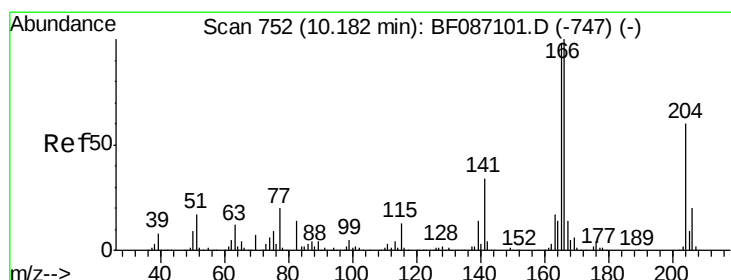
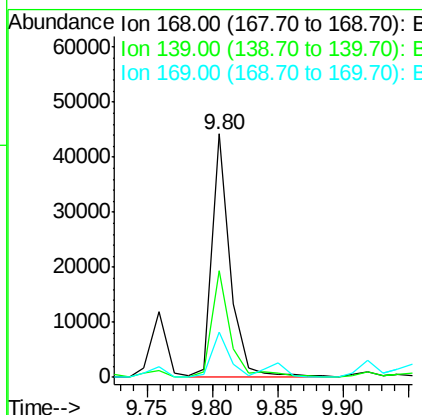
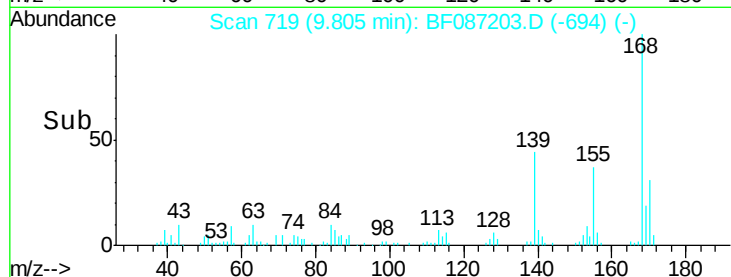
Instrument :
BNA_F
ClientSampleId :
FB-BWR-BB-R10-C5-2(0-19FT)



Tgt Ion	Ratio	Lower	Upper
168	100		
139	43.7	31.4	47.0
169	18.7	10.7	16.1#

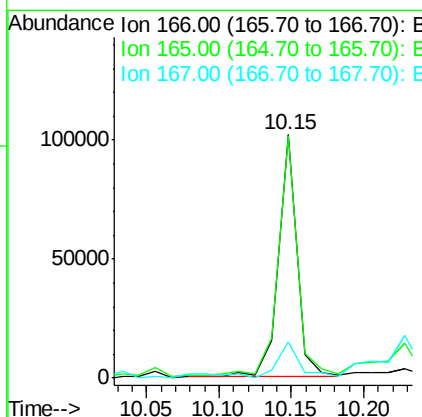
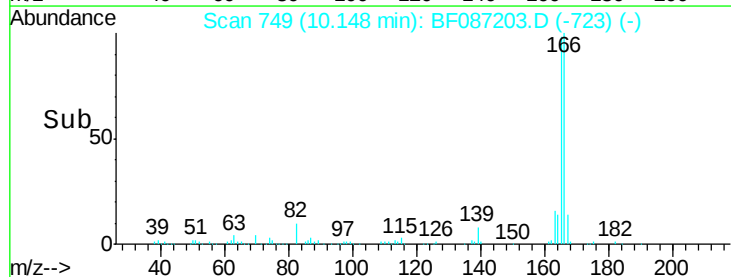
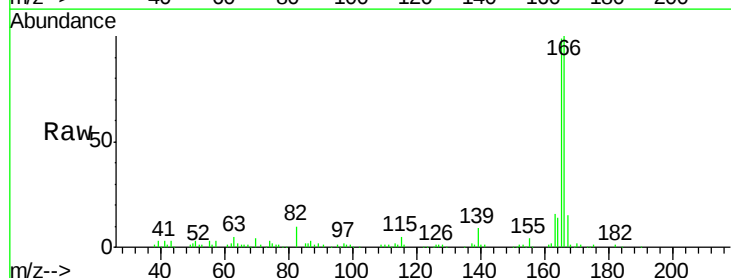
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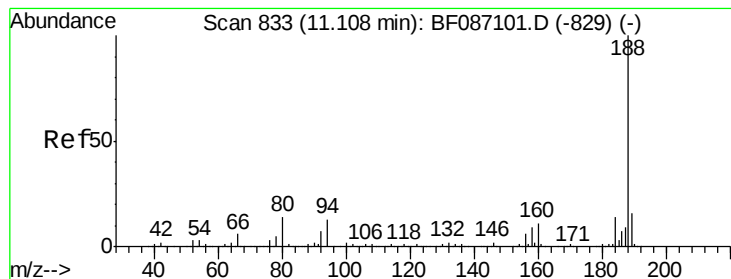
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#57
Fluorene
Concen: 5.74 ng
RT: 10.15 min Scan# 749
Delta R.T. -0.00 min
Lab File: BF087203.D
Acq: 19 May 2016 23:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.0	118.6
167	14.8	10.6	15.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.01 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Instrument :

BNA_F

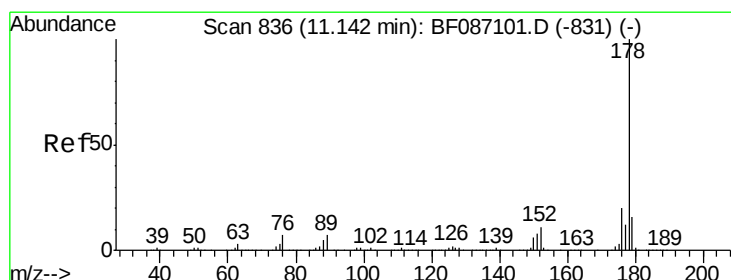
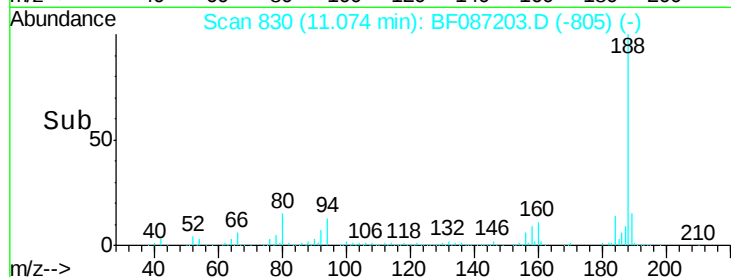
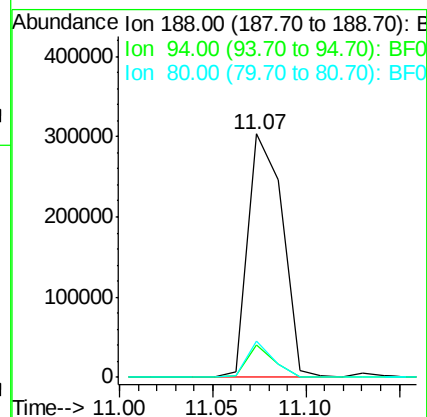
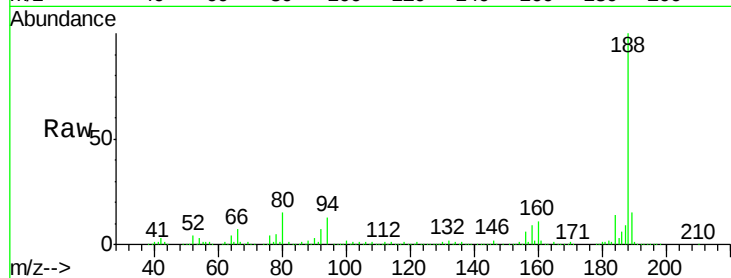
ClientSampleId :

FB-BWR-BB-R10-C5-2(0-19FT)

Tgt Ion:	188	Resp:	389000
Ion Ratio	Lower	Upper	
188	100		
94	13.1	6.8	10.2#
80	14.9	7.1	10.7#

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#70

Phenanthrene

Concen: 47.93 ng

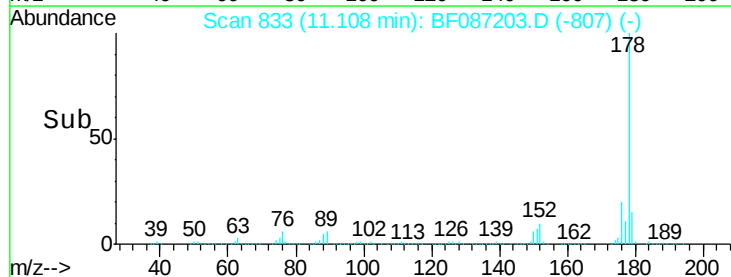
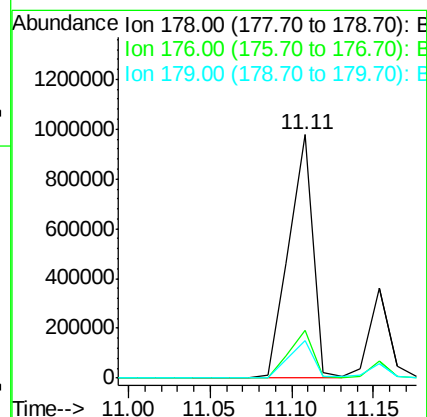
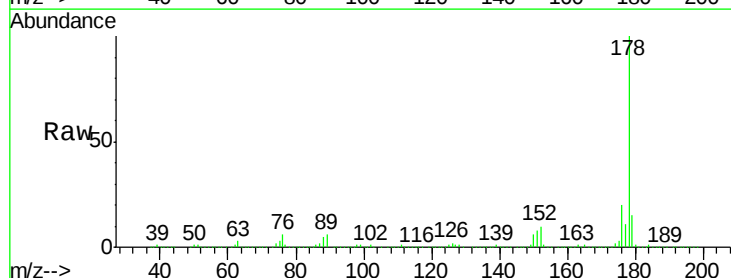
RT: 11.11 min Scan# 833

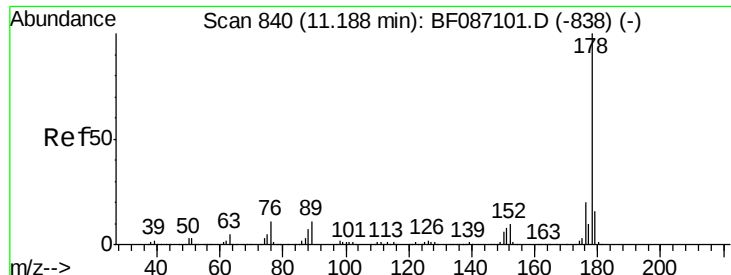
Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Tgt Ion:	178	Resp:	1011210
Ion Ratio	Lower	Upper	
178	100		
176	19.5	16.0	24.0
179	15.3	12.6	18.8





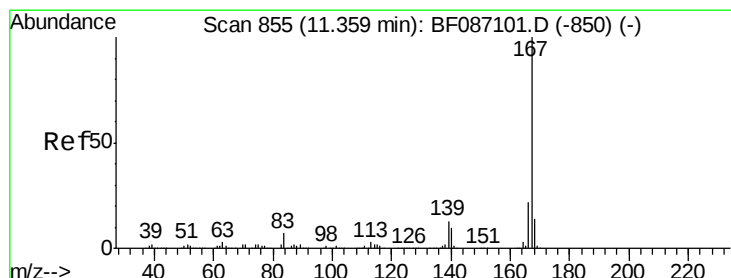
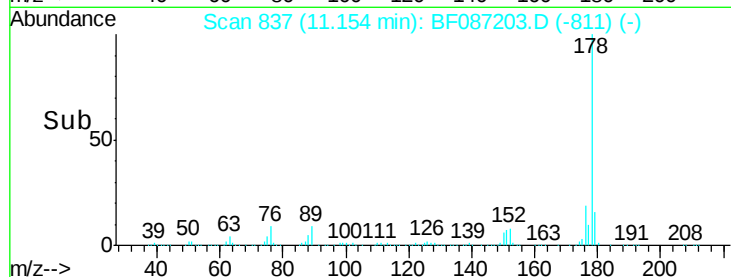
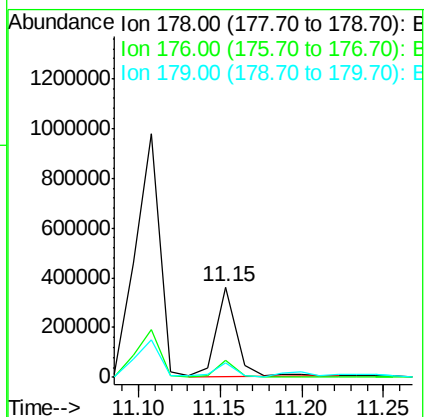
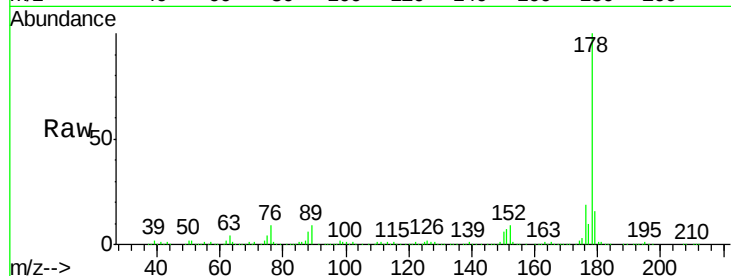
#71
 Anthracene
 Concen: 14.46 ng
 RT: 11.15 min Scan# 837
 Delta R.T. -0.00 min
 Lab File: BF087203.D
 Acq: 19 May 2016 23:03

Instrument :
 BNA_F
 ClientSampleId :
 FB-BWR-BB-R10-C5-2(0-19FT)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.6	23.4
179	15.9	12.7	19.1

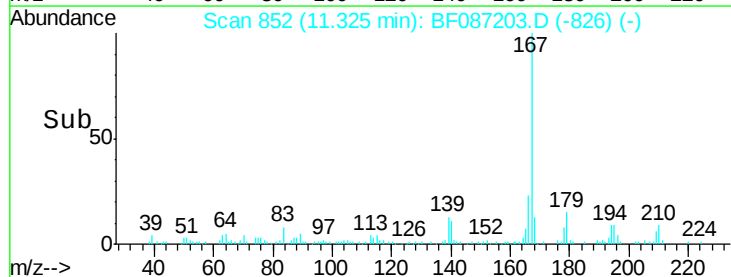
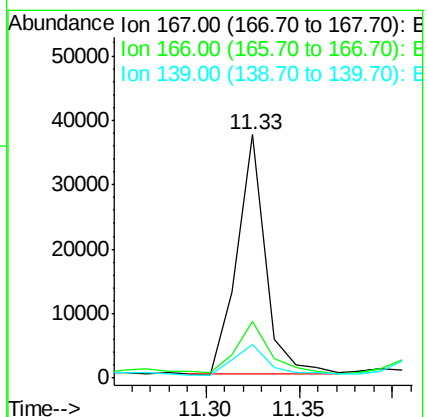
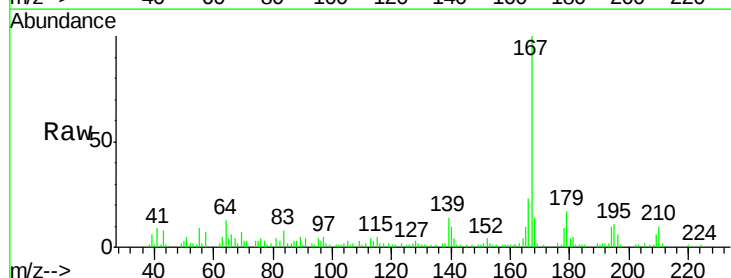
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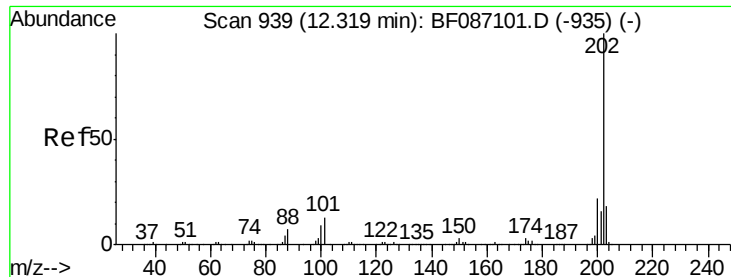
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#72
 Carbazole
 Concen: 2.02 ng
 RT: 11.33 min Scan# 852
 Delta R.T. -0.00 min
 Lab File: BF087203.D
 Acq: 19 May 2016 23:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.4	17.7	26.5
139	13.9	10.8	16.2





#74

Fluoranthene

Concen: 48.87 ng

RT: 12.29 min Scan# 936

Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Instrument :

BNA_F

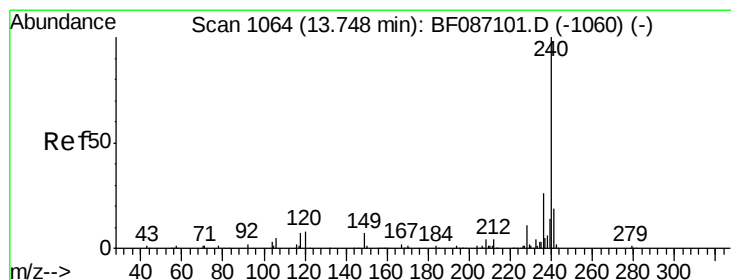
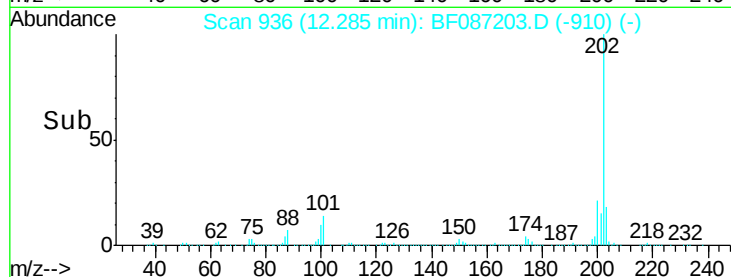
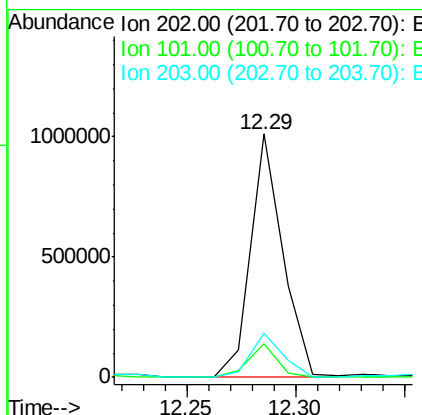
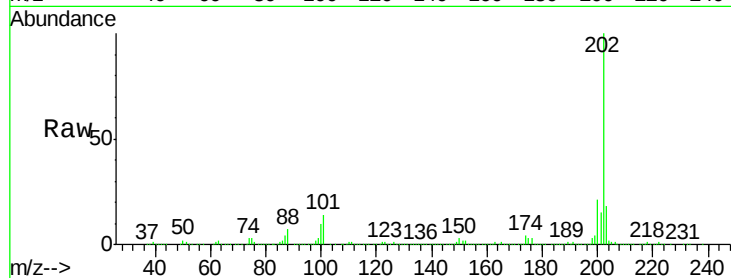
ClientSampleId :

FB-BWR-BB-R10-C5-2(0-19FT)

Tgt	Ion	202	Resp:	1032949
Ion	Ratio	Lower	Upper	
202	100			
101	13.8	0.0	35.4	
203	18.2	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.00 ng

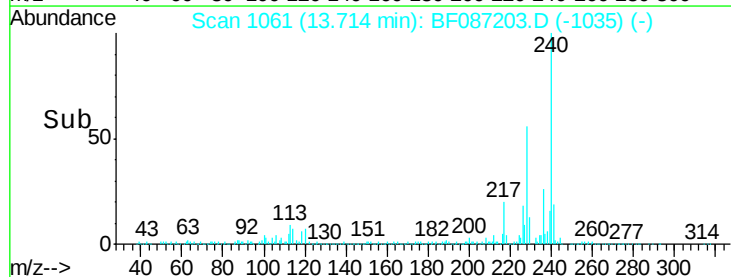
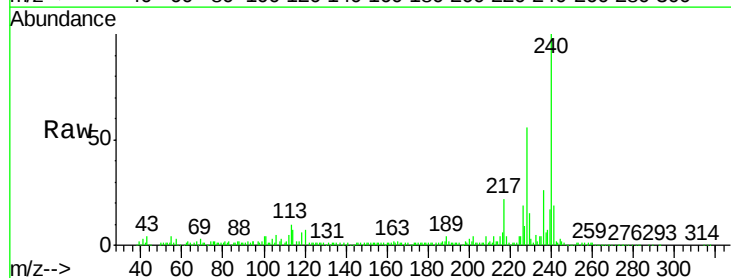
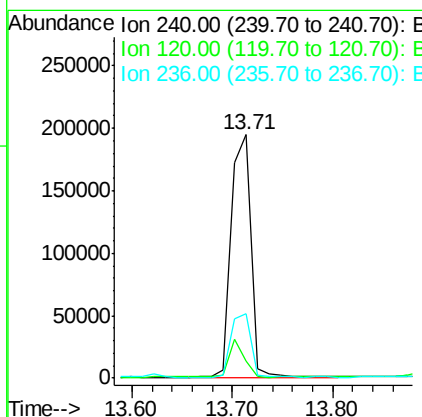
RT: 13.71 min Scan# 1061

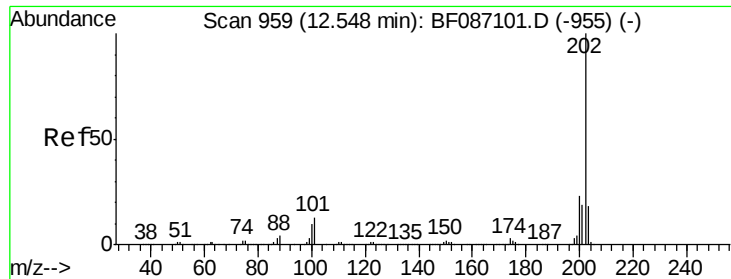
Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Tgt	Ion	240	Resp:	264457
Ion	Ratio	Lower	Upper	
240	100			
120	6.9	11.2	16.8#	
236	26.4	21.2	31.8	





#77

Pyrene

Concen: 63.03 ng

RT: 12.51 min Scan# 956

Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Instrument :

BNA_F

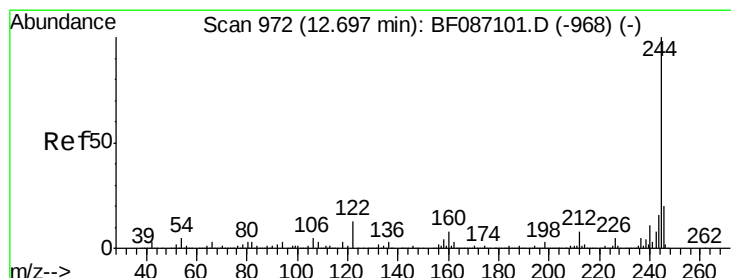
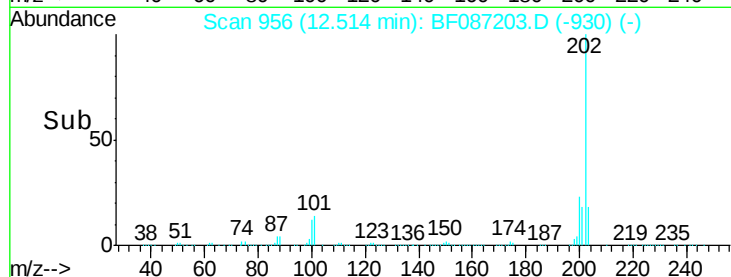
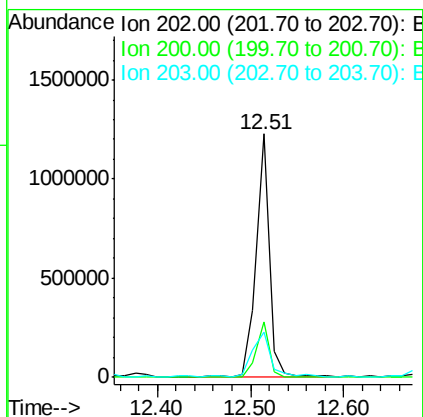
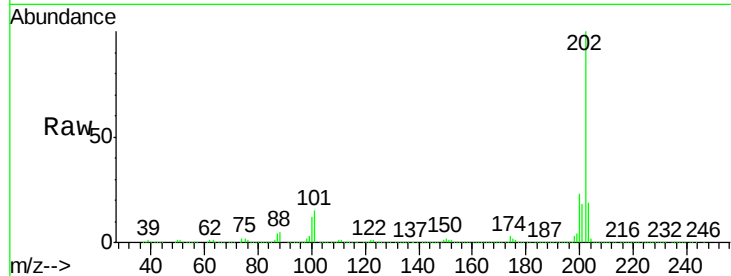
ClientSampleId :

FB-BWR-BB-R10-C5-2(0-19FT)

Tgt Ion:	202	Resp:	1204183
Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.7	26.5
203	18.5	14.2	21.4

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#78

Terphenyl-d14

Concen: 72.35 ng

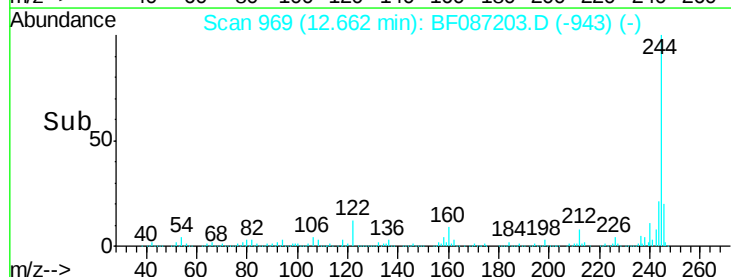
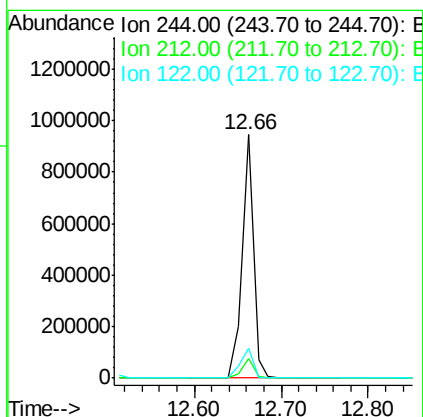
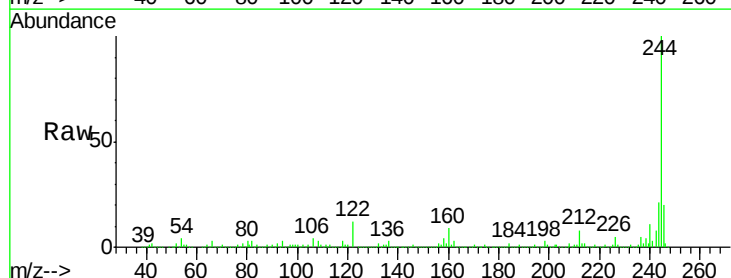
RT: 12.66 min Scan# 969

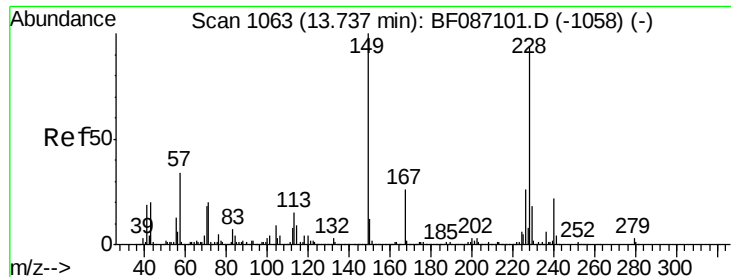
Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Tgt Ion:	244	Resp:	845852
Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.2	9.2
122	12.0	12.0	18.0





#80

Benzo(a)anthracene

Concen: 42.51 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Instrument :

BNA_F

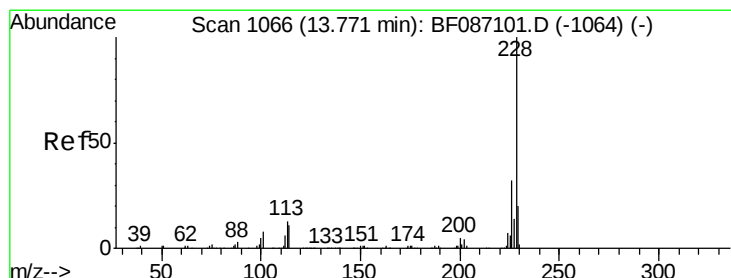
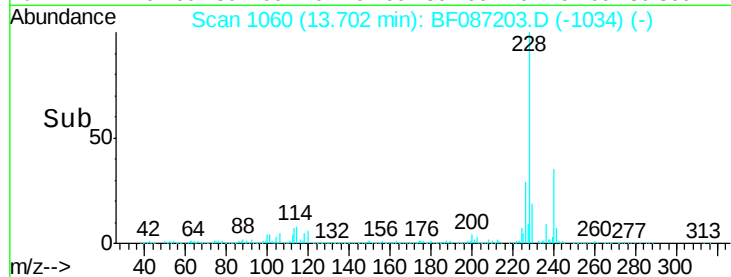
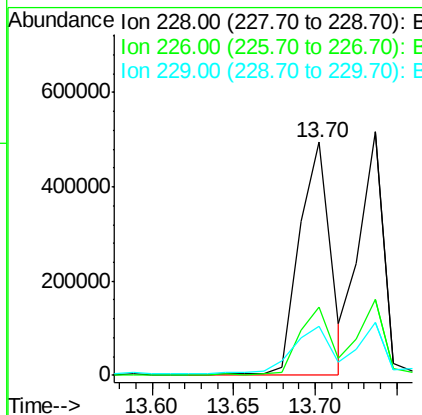
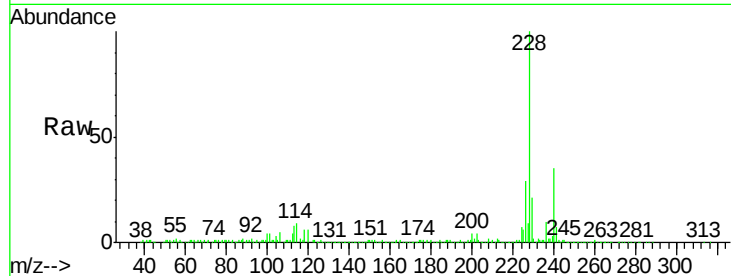
ClientSampleId :

FB-BWR-BB-R10-C5-2(0-19FT)

Tgt Ion:	228	Resp:	649968
Ion Ratio	Lower	Upper	
228	100		
226	29.5	22.5	33.7
229	20.9	16.6	25.0

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#82

Chrysene

Concen: 37.17 ng m

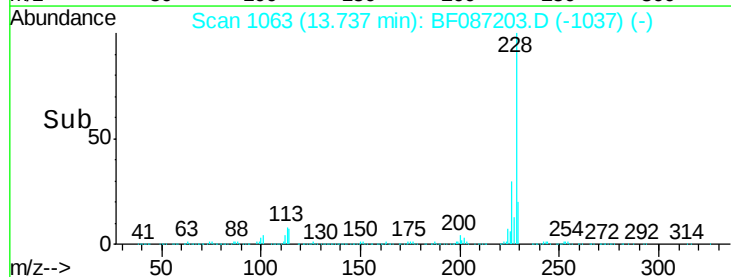
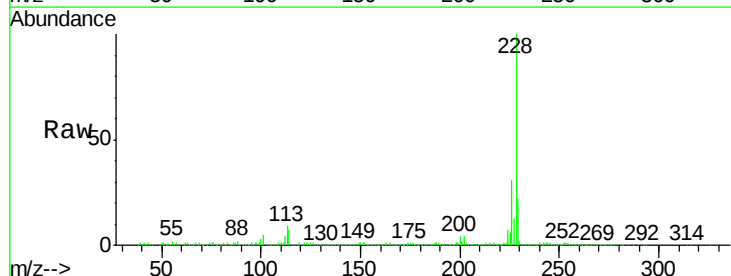
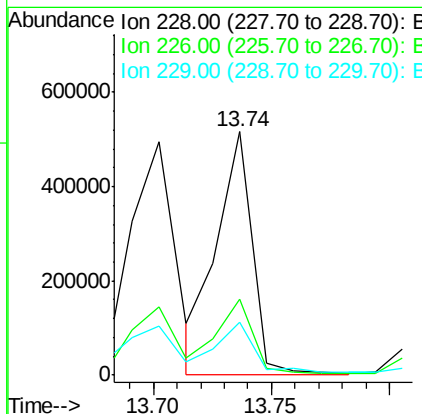
RT: 13.74 min Scan# 1063

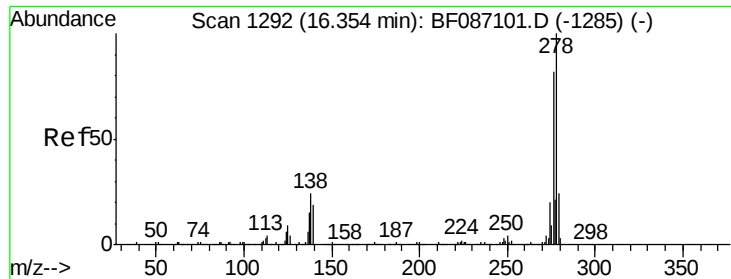
Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Tgt Ion:	228	Resp:	549953
Ion Ratio	Lower	Upper	
228	100		
226	31.1	24.4	36.6
229	21.7	15.8	23.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 16.66 ng

RT: 16.29 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BF087203.D

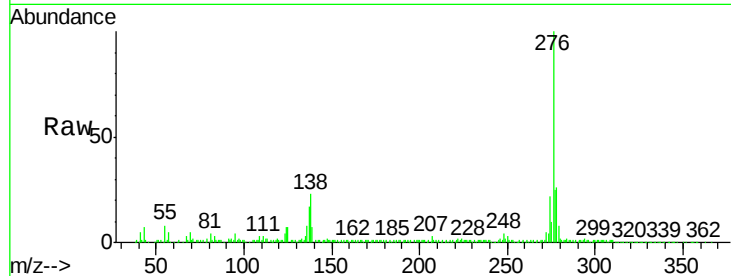
Acq: 19 May 2016 23:03

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C5-2(0-19FT)



Tgt Ion: 276 Resp: 216308

Ion Ratio Lower Upper

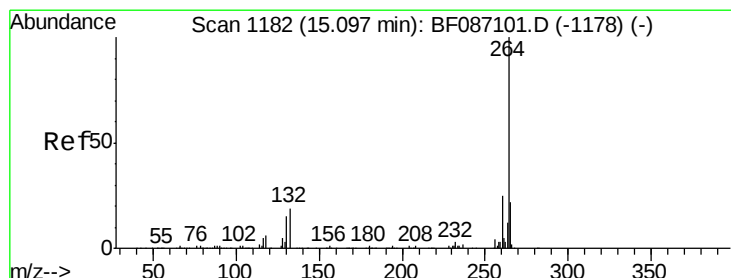
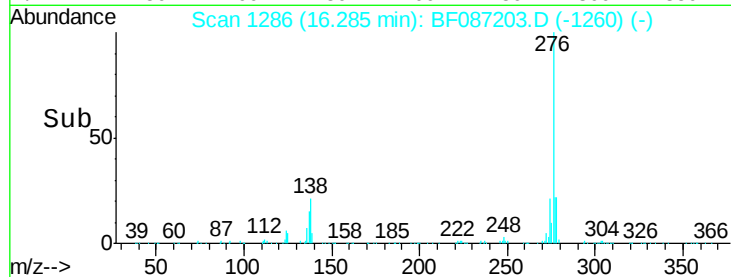
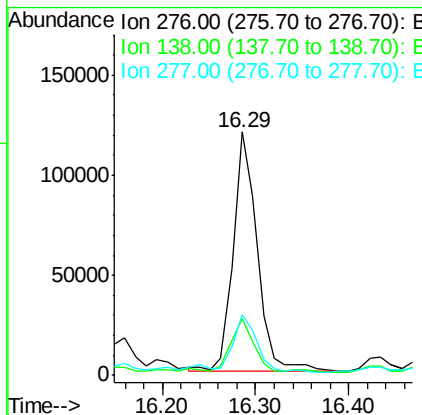
276 100

138 23.0 25.6 38.4#

277 27.0 20.5 30.7

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#86

Perylene-d12

Concen: 20.00 ng

RT: 15.06 min Scan# 1179

Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

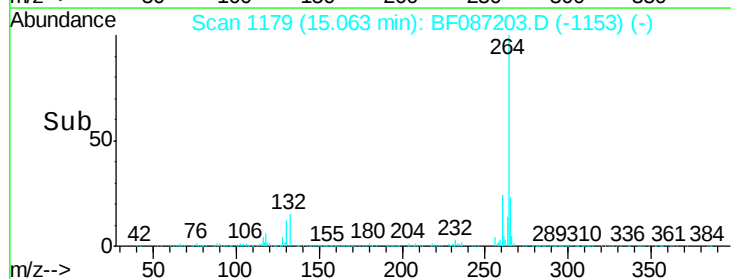
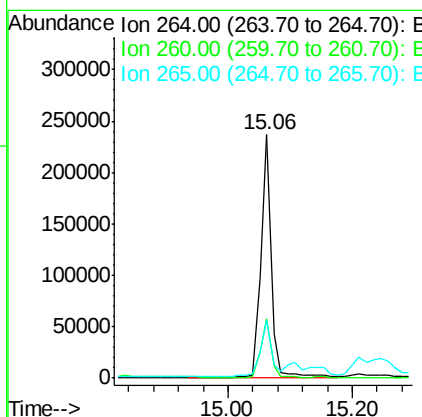
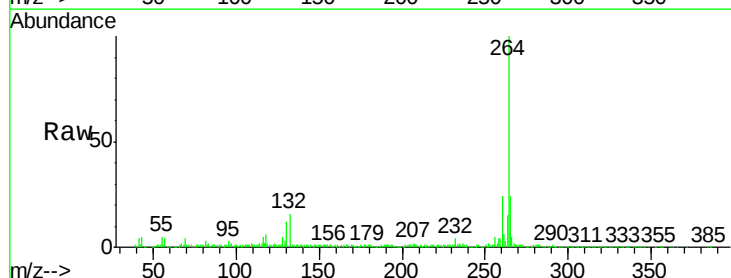
Tgt Ion: 264 Resp: 275665

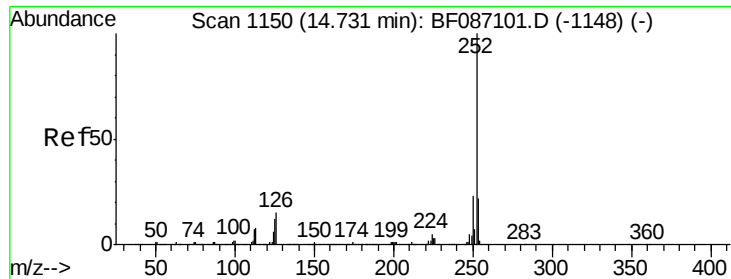
Ion Ratio Lower Upper

264 100

260 24.3 19.5 29.3

265 23.6 17.3 25.9





#87

Benzo(b)fluoranthene

Concen: 28.64 ng m

RT: 14.70 min Scan# 1147

Delta R.T. -0.00 min

Lab File: BF087203.D

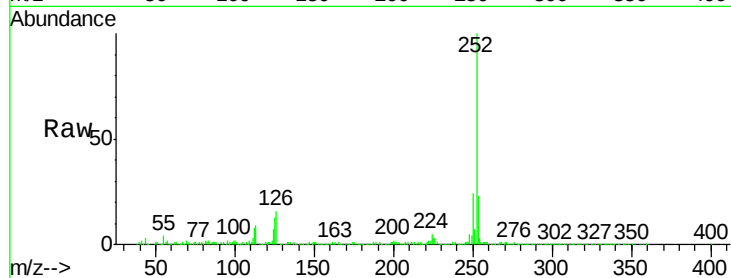
Acq: 19 May 2016 23:03

Instrument :

BNA_F

ClientSampleId :

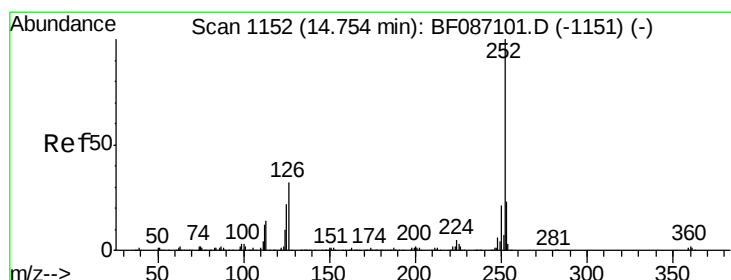
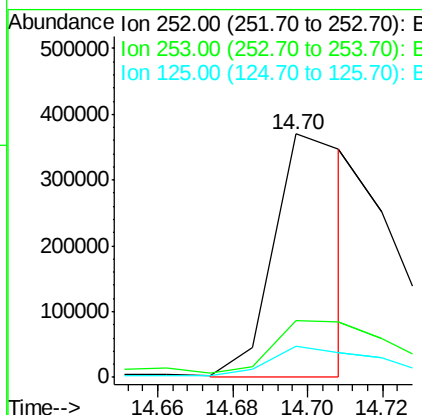
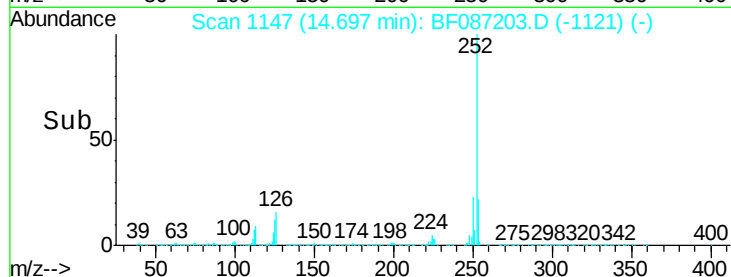
FB-BWR-BB-R10-C5-2(0-19FT)



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.6
125	13.0	11.4	17.0

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#88

Benzo(k)fluoranthene

Concen: 18.61 ng m

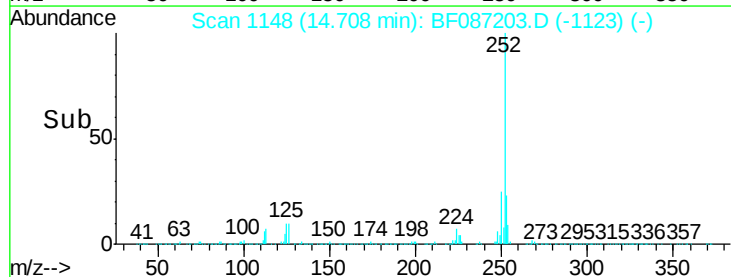
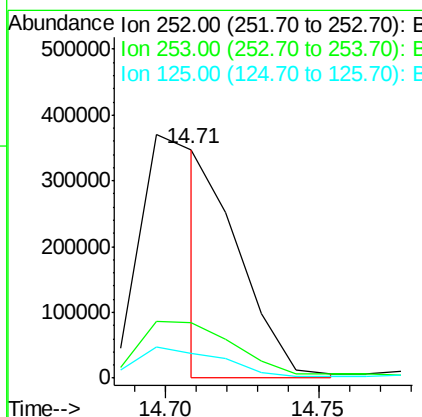
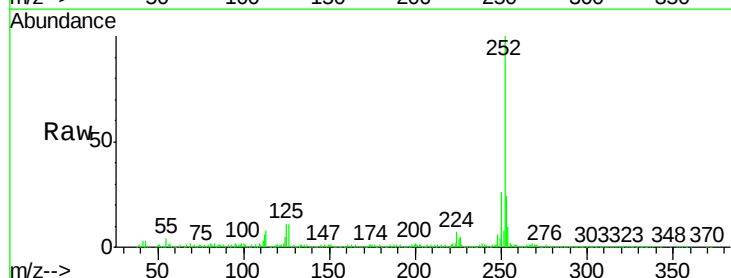
RT: 14.71 min Scan# 1148

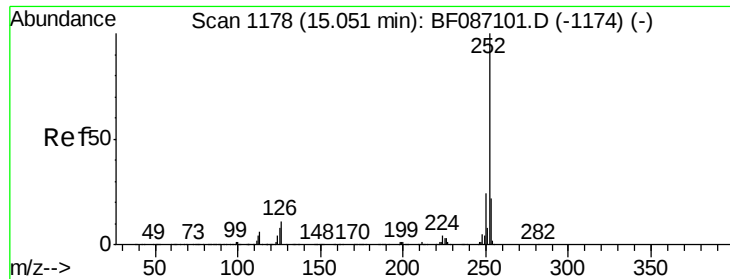
Delta R.T. -0.01 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	10.7	9.1	13.7





#89

Benzo(a)pyrene

Concen: 29.34 ng

RT: 15.01 min Scan# 1174

Delta R.T. -0.00 min

Lab File: BF087203.D

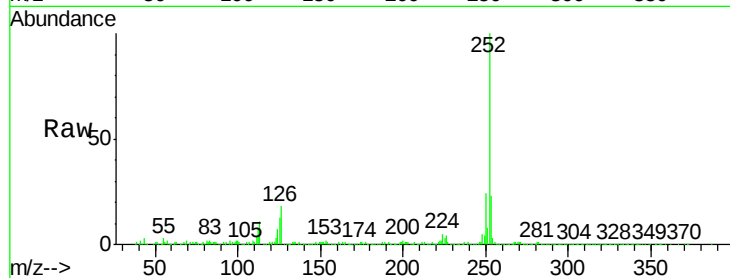
Acq: 19 May 2016 23:03

Instrument :

BNA_F

ClientSampleId :

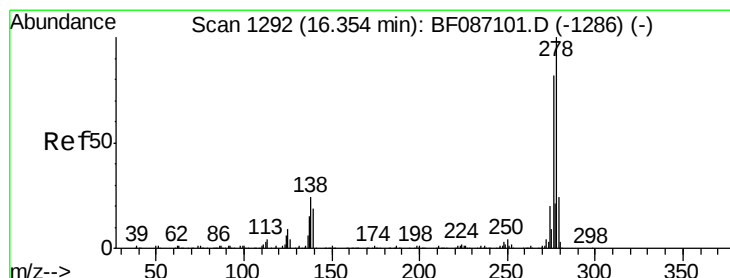
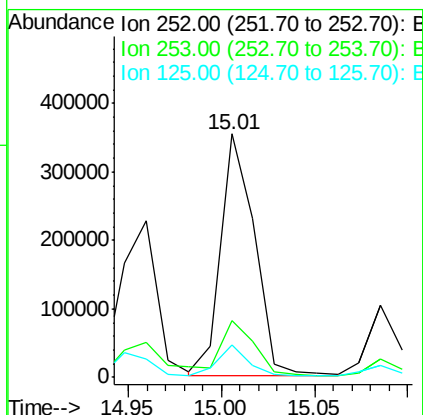
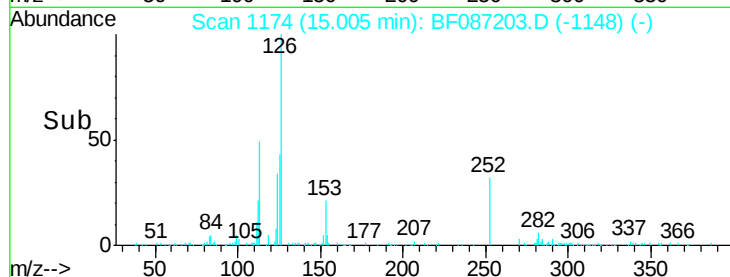
FB-BWR-BB-R10-C5-2(0-19FT)



Tgt Ion:	252	Resp:	448466
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.2	25.8
125	13.4	9.0	13.6

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#90

Dibenzo(a,h)anthracene

Concen: 4.30 ng m

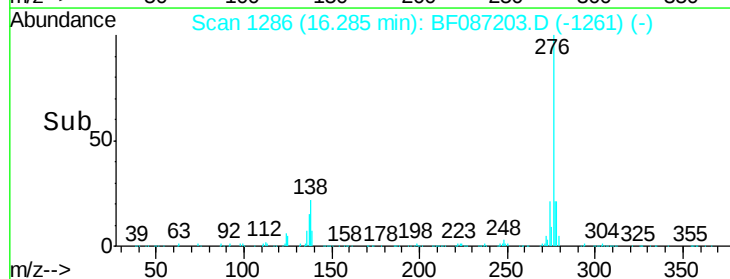
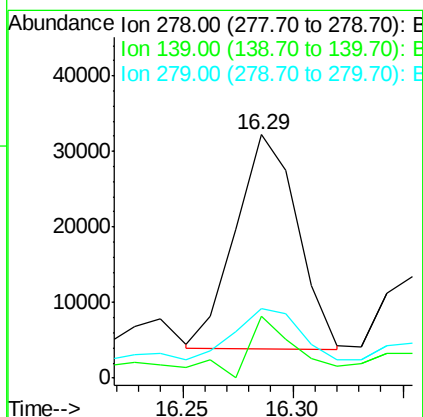
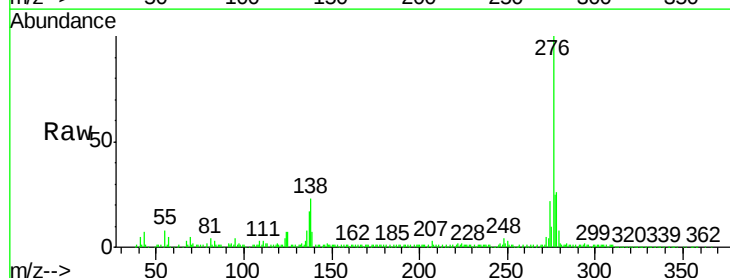
RT: 16.29 min Scan# 1286

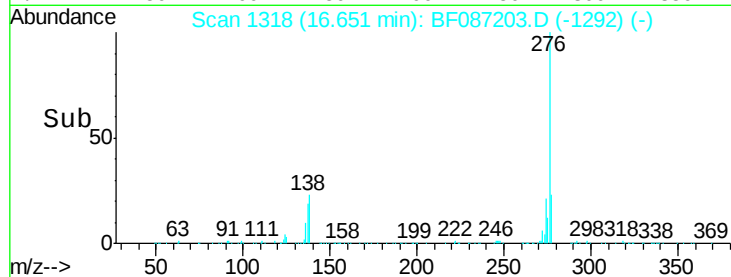
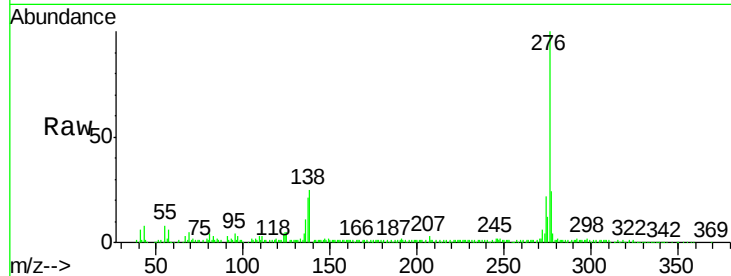
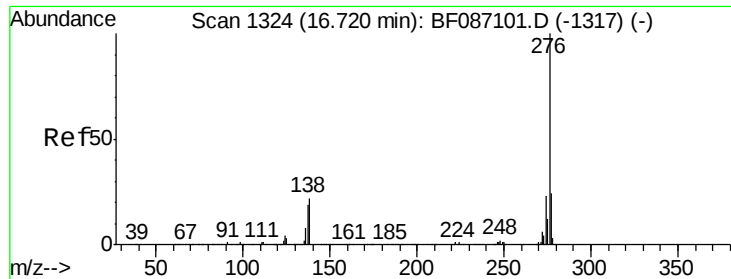
Delta R.T. -0.01 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Tgt Ion:	278	Resp:	55284
Ion Ratio	Lower	Upper	
278	100		
139	25.2	16.6	24.8#
279	28.4	19.6	29.4





#91

Benzo(g,h,i)perylene

Concen: 15.45 ng

RT: 16.65 min Scan# 1318

Delta R.T. -0.00 min

Lab File: BF087203.D

Acq: 19 May 2016 23:03

Instrument :

BNA_F

ClientSampleId :

FB-BWR-BB-R10-C5-2(0-19FT)

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		200865		
277	23.8	19.6	29.4		
138	25.0	23.6	35.4		

Manual Integrations
APPROVED

sohil
5/20/2016 7:14:56 PM

