

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\
 Data File : BF087750.D
 Acq On : 6 Jun 2016 14:13
 Operator : UM/SJ
 Sample : H3346-01 50X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-201605A

Manual Integrations
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Quant Time: Jun 06 17:17:27 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 04 11:07:28 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	99366	20.00	ng	-0.02
21) Naphthalene-d8	8.14	136	420676	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	185916	20.00	ng	-0.02
63) Phenanthrene-d10	11.37	188	337131	20.00	ng	-0.01
75) Chrysene-d12	14.00	240	238027	20.00	ng	-0.02
86) Perylene-d12	15.42	264	223274	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	7951	1.29	ng	-0.01
7) Phenol-d6	6.47	99	7321	0.95	ng	-0.02
23) Nitrobenzene-d5	7.40	82	11550	1.59	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	3776	2.02	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	37043	2.62	ng	-0.02
78) Terphenyl-d14	12.95	244	23925	2.45	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.17	128	2965810	145.00	ng	98
37) 2-Methylnaphthalene	8.84	142	436773	32.34	ng	# 97
45) 1,1'-Biphenyl	9.31	154	81568	5.41	ng	94
48) Acenaphthylene	9.75	152	424921	22.69	ng	100
57) Fluorene	10.43	166	129416	10.09	ng	98
70) Phenanthrene	11.39	178	400007	21.88	ng	99
71) Anthracene	11.44	178	107057	5.85	ng	99
74) Fluoranthene	12.57	202	126145	7.01	ng	95
77) Pyrene	12.80	202	187315	11.05	ng	99
80) Benzo(a)anthracene	13.99	228	55477m	4.04	ng	
82) Chrysene	14.02	228	45544m	3.33	ng	
87) Benzo(b)fluoranthene	15.02	252	36168m	2.49	ng	
89) Benzo(a)pyrene	15.36	252	44636	3.66	ng	99

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

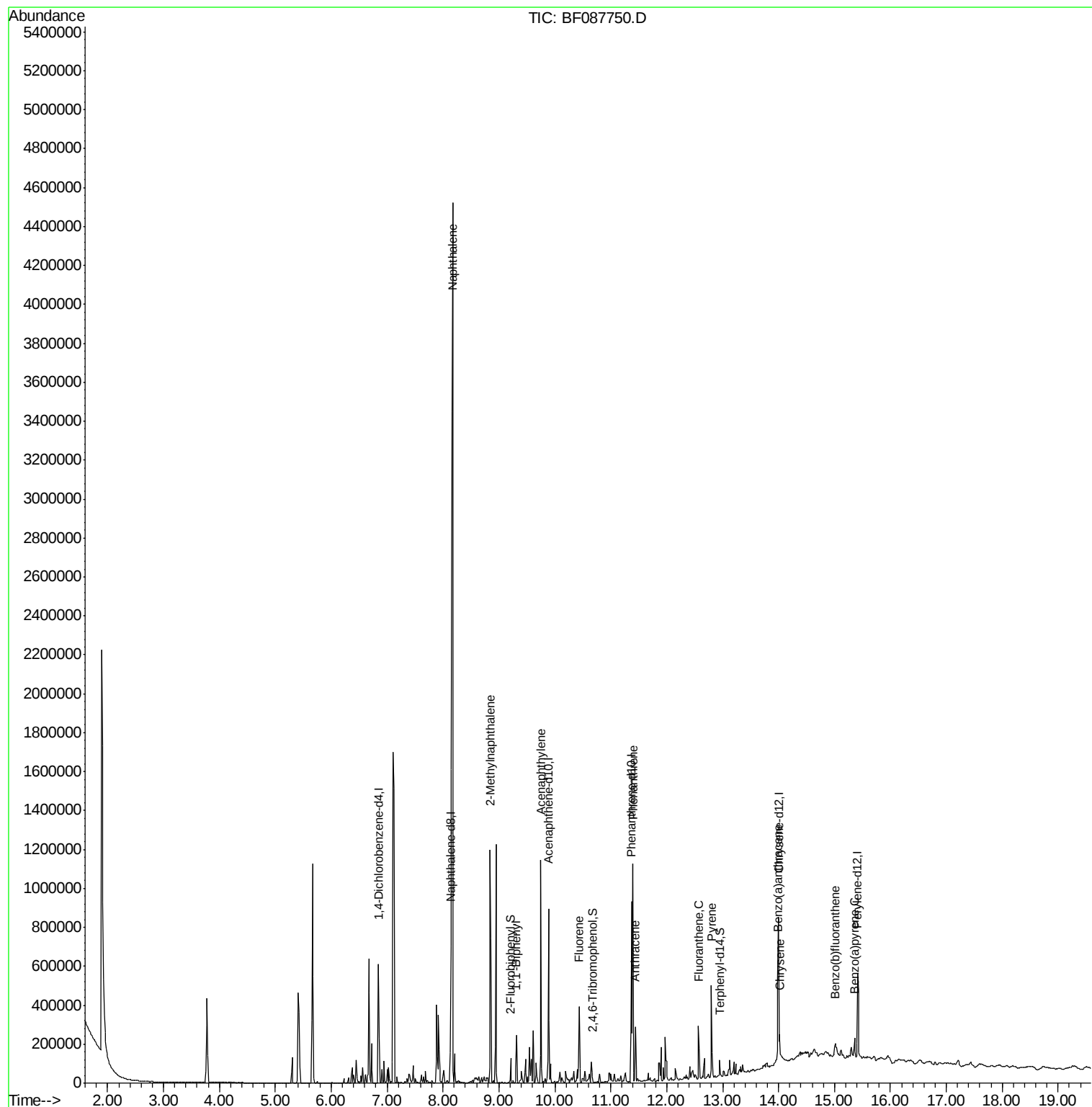
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\
Data File : BF087750.D
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Operator : UM/SJ
Sample : H3346-01 50X
Misc :
ALS Vial : 8 Sample Multiplier: 1

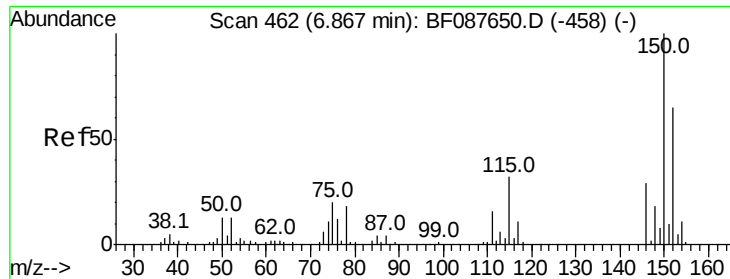
Instrument :
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WC-201605A

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Quant Time: Jun 06 17:17:27 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 04 11:07:28 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 460

Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Instrument :

BNA_F

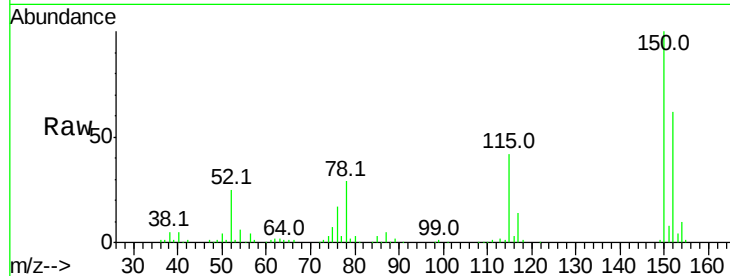
ClientSampleId :

WC-201605A

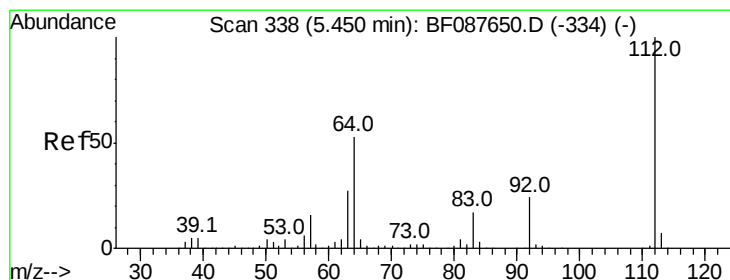
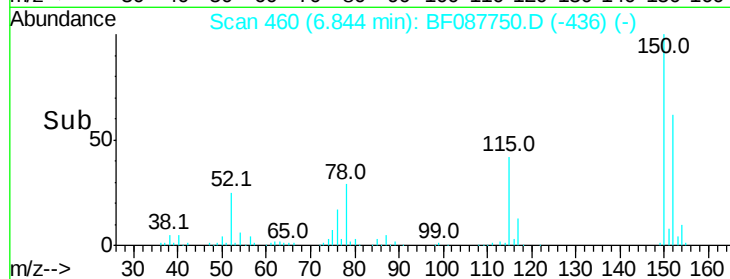
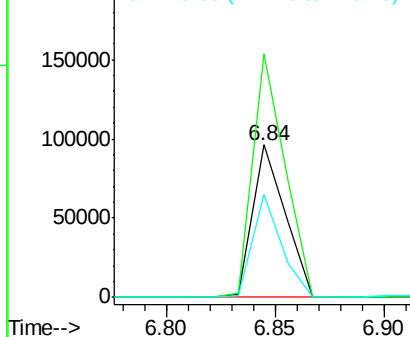
Tot Ion:	152	Resp:	99366
Ion Ratio	Lower	Upper	
152	100		
150	160.1	123.8	185.6
115	67.5	39.6	59.4#

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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: 1.29 ng

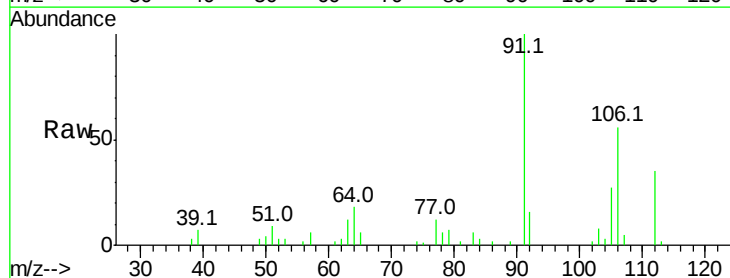
RT: 5.44 min Scan# 337

Delta R.T. -0.01 min

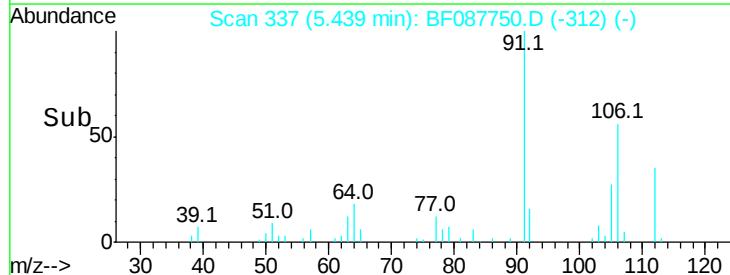
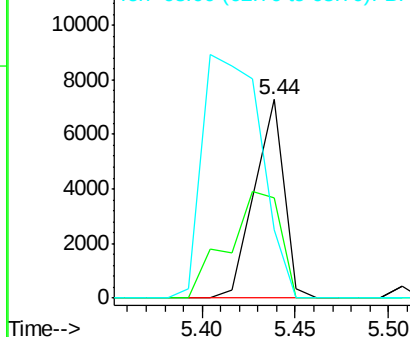
Lab File: BF087750.D

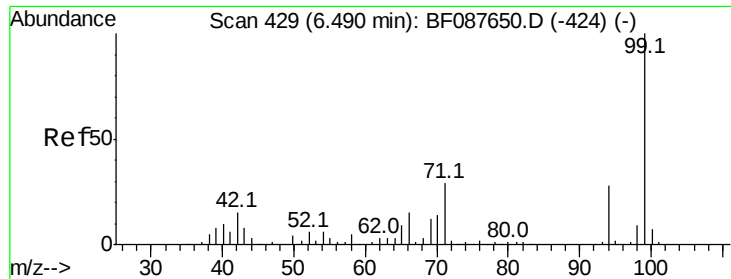
Acq: 6 Jun 2016 14:13

Tgt Ion:	112	Resp:	7951
Ion Ratio	Lower	Upper	
112	100		
64	50.7	42.2	63.2
63	34.2	21.8	32.8#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 0.95 ng

RT: 6.47 min Scan# 427

Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Instrument :

BNA_F

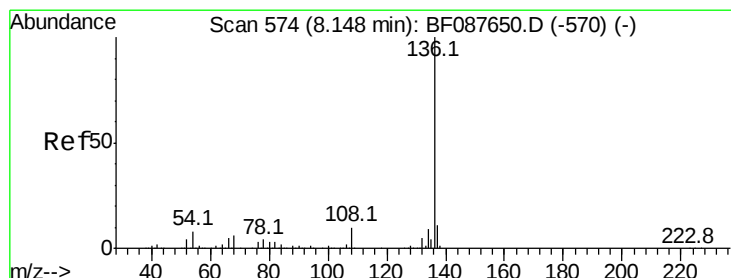
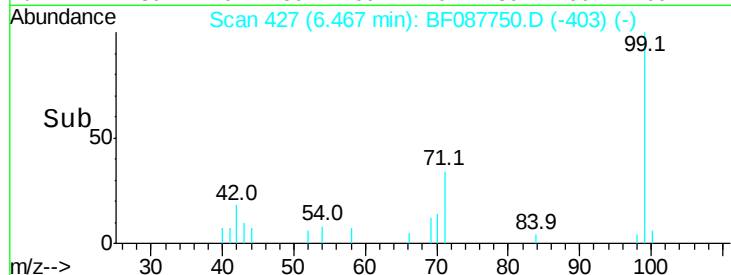
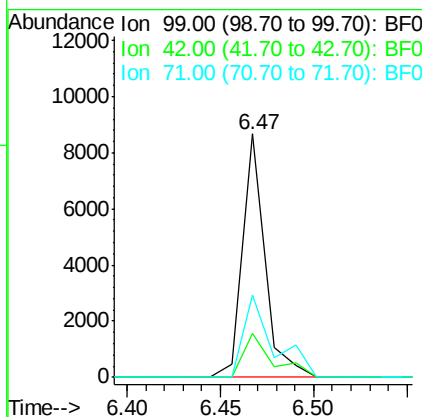
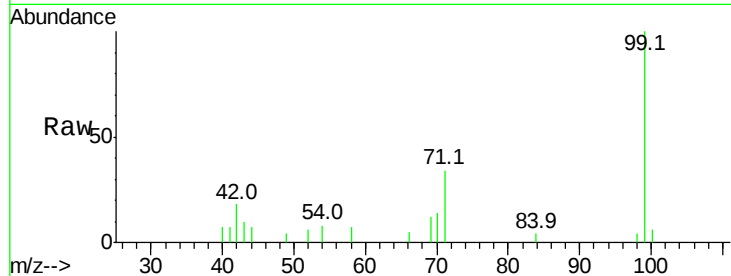
ClientSampleId :

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Tot Ion:	99	Resp:	7321
Ion	Ratio	Lower	Upper
99	100		
42	17.9	12.2	18.2
71	33.6	23.4	35.0

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#21

Naphthalene-d8

Concen: 20.00 ng

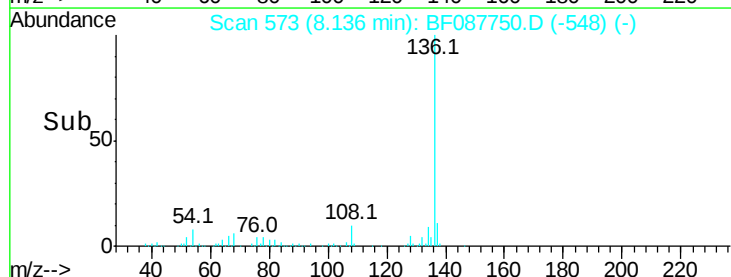
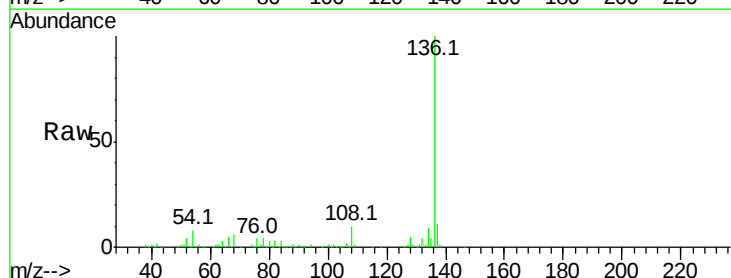
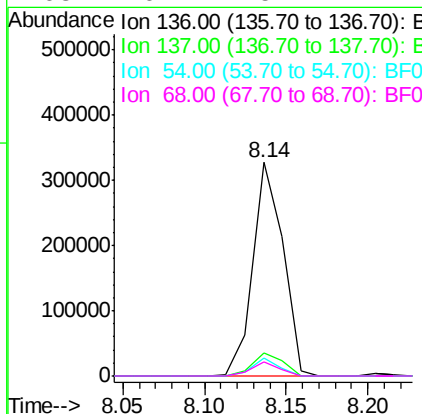
RT: 8.14 min Scan# 573

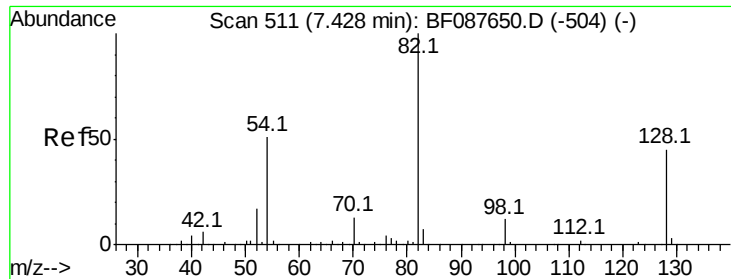
Delta R.T. -0.01 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Tgt Ion:	136	Resp:	420676
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	8.1	6.6	10.0
68	6.4	5.1	7.7





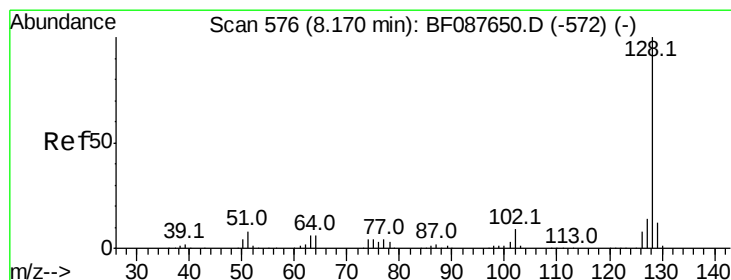
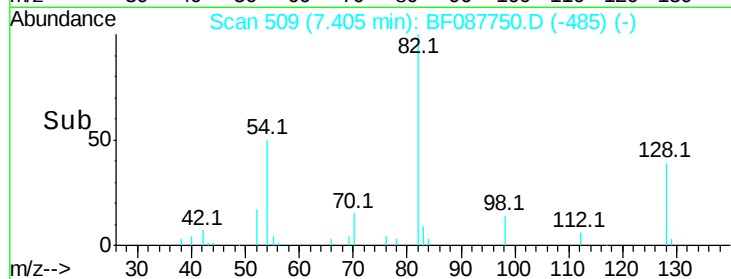
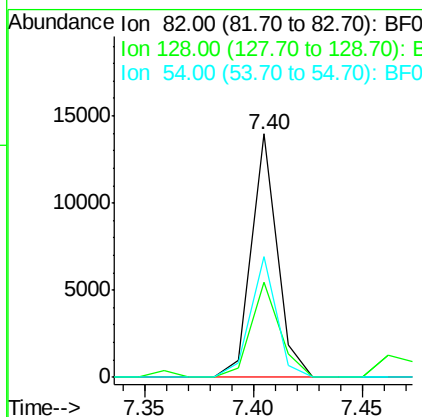
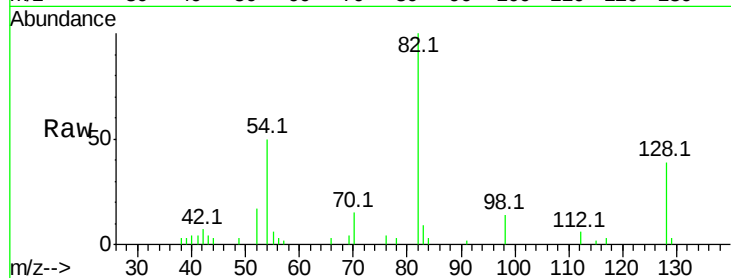
#23
Nitrobenzene-d5
Concen: 1.59 ng
RT: 7.40 min Scan# 509
Delta R.T. -0.02 min
Lab File: BF087750.D
Acq: 6 Jun 2016 14:13

Instrument :
BNA_F
ClientSampleId :
WC-201605A

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.9	35.9	53.9
54	49.7	40.9	61.3

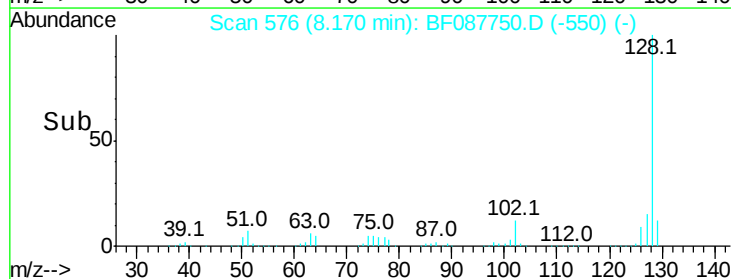
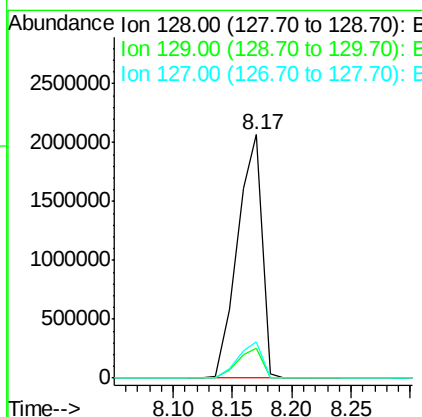
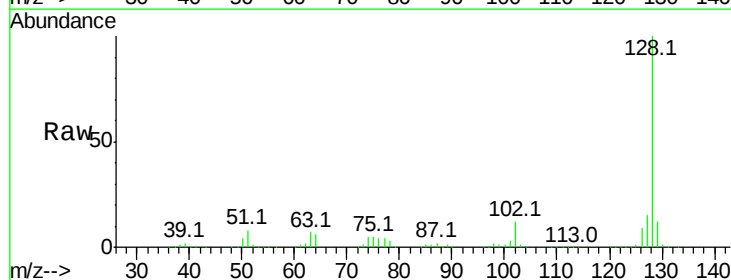
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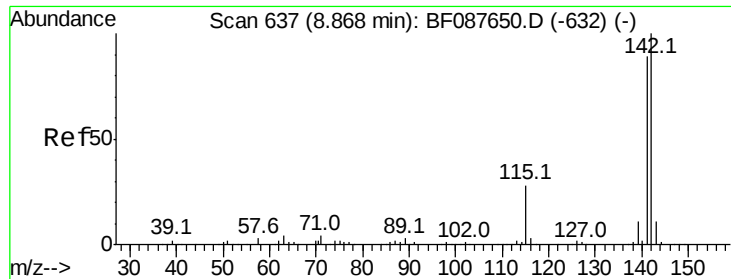
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#31
Naphthalene
Concen: 145.00 ng
RT: 8.17 min Scan# 576
Delta R.T. -0.00 min
Lab File: BF087750.D
Acq: 6 Jun 2016 14:13

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.4	14.2
127	14.9	10.9	16.3





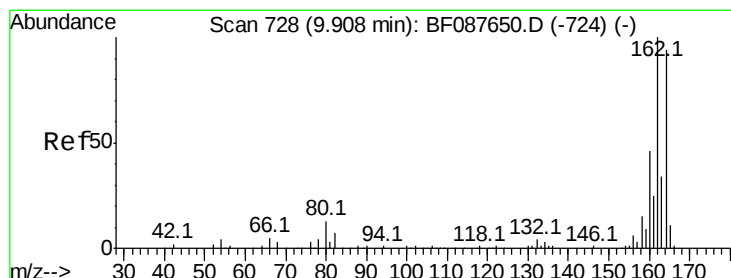
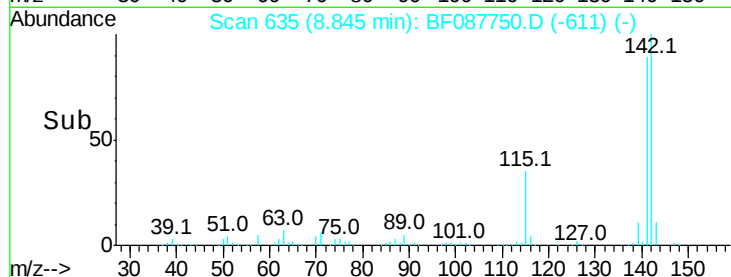
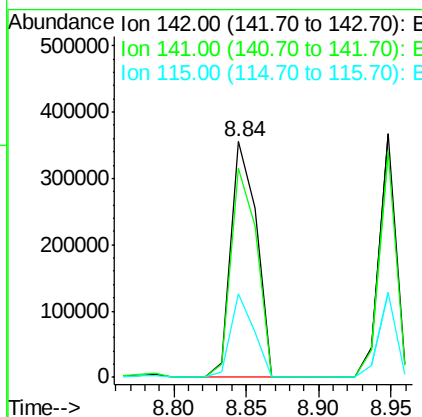
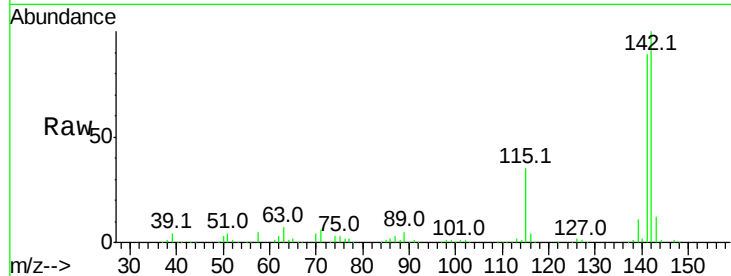
#37
2-Methylnaphthalene
Concen: 32.34 ng
RT: 8.84 min Scan# 635
Delta R.T. -0.02 min
Lab File: BF087750.D
Acq: 6 Jun 2016 14:13

Instrument :
BNA_F
ClientSampleId :
WC-201605A

Tot Ion	Ratio	Resp	Lower	Upper
142	100	436773		
141	88.7		71.0	106.6
115	35.2		22.6	33.8#

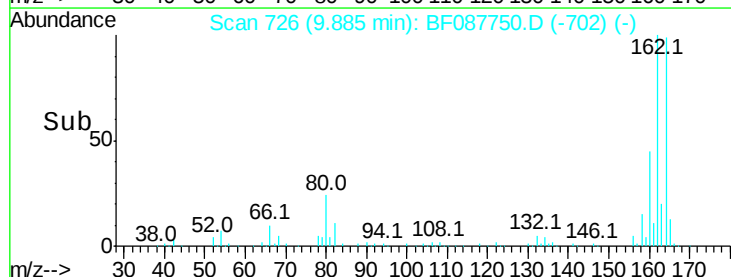
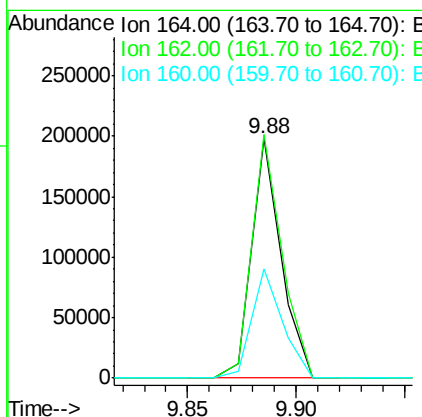
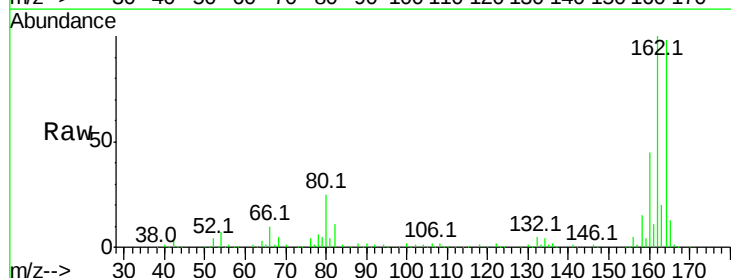
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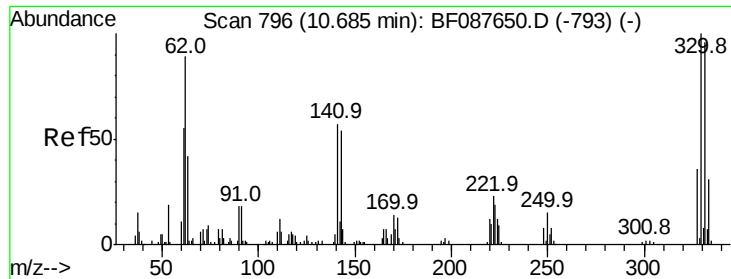
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 726
Delta R.T. -0.02 min
Lab File: BF087750.D
Acq: 6 Jun 2016 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	185916		
162	101.6		85.4	128.2
160	45.8		39.5	59.3





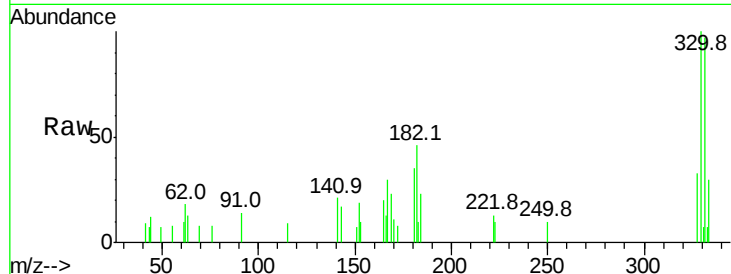
#41
 2,4,6-Tribromophenol
 Concen: 2.02 ng
 RT: 10.67 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: BF087750.D
 Acq: 6 Jun 2016 14:13

Instrument :
 BNA_F
 ClientSampleId :
 WC-201605A

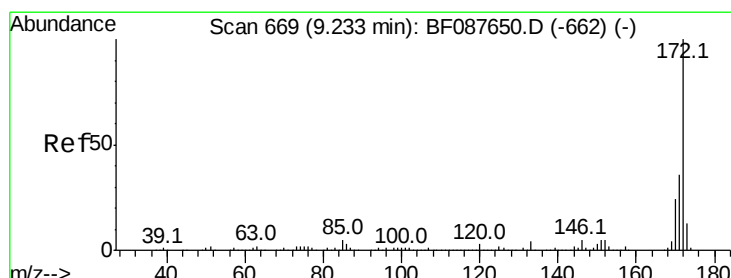
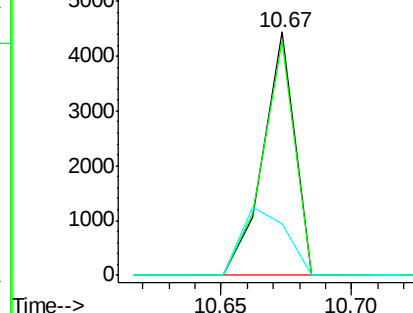
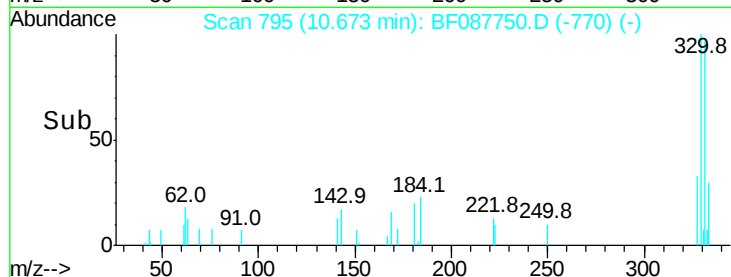
Tot Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	98.4	0.0	0.0#
141	39.8	0.0	0.0#

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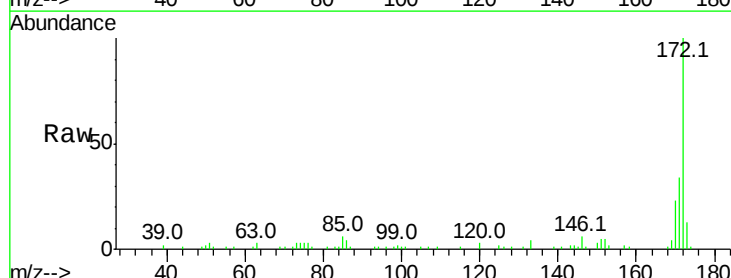


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

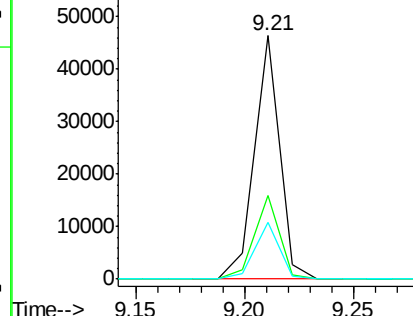
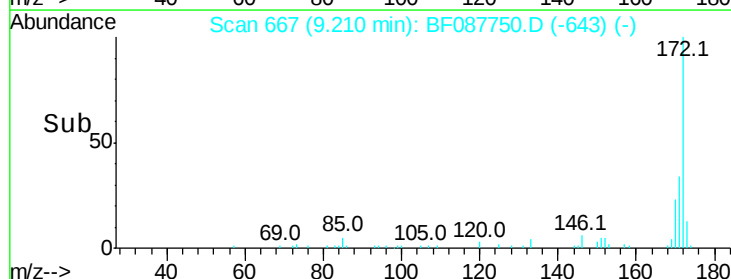


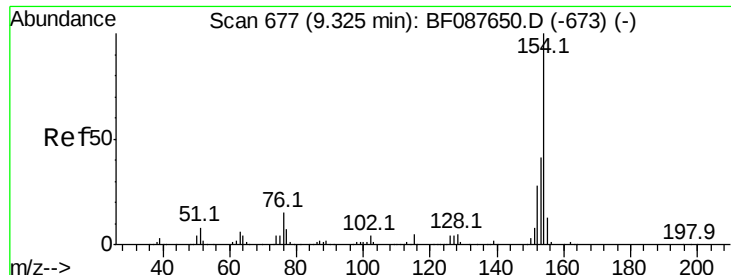
#44
 2-Fluorobiphenyl
 Concen: 2.62 ng
 RT: 9.21 min Scan# 667
 Delta R.T. -0.02 min
 Lab File: BF087750.D
 Acq: 6 Jun 2016 14:13

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	34.2	28.6	43.0
170	23.2	19.2	28.8



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





#45

1,1'-Biphenyl

Concen: 5.41 ng

RT: 9.31 min Scan# 676

Delta R.T. -0.01 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Instrument :

BNA_F

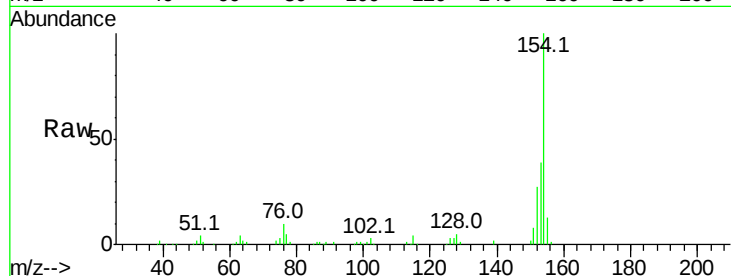
ClientSampleId :

WC-201605A

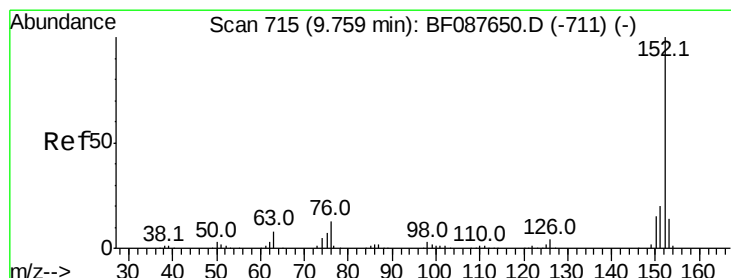
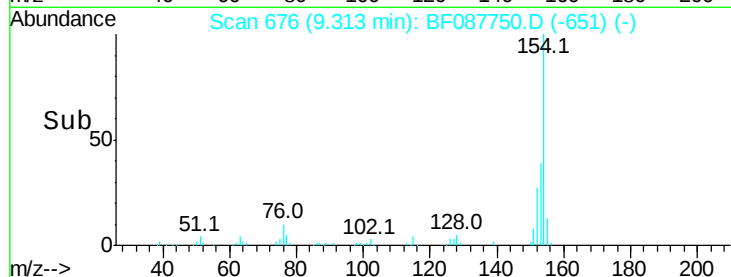
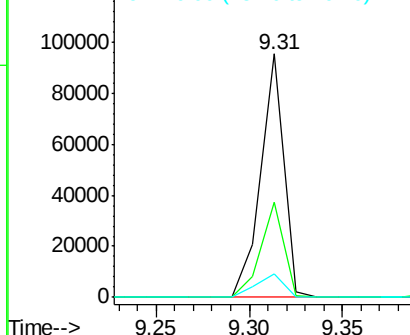
Tot Ion:	154	Resp:	81568
Ion Ratio	Lower	Upper	
154	100		
153	39.0	20.6	60.6
76	9.5	0.0	35.1

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 22.69 ng

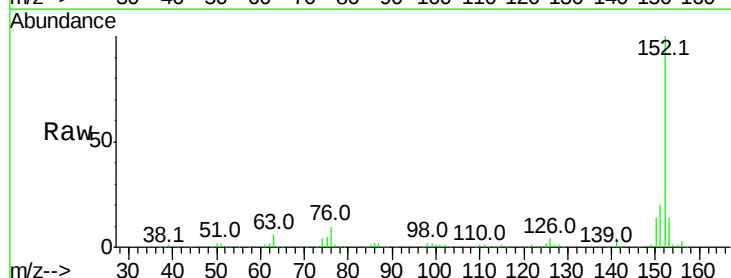
RT: 9.75 min Scan# 714

Delta R.T. -0.01 min

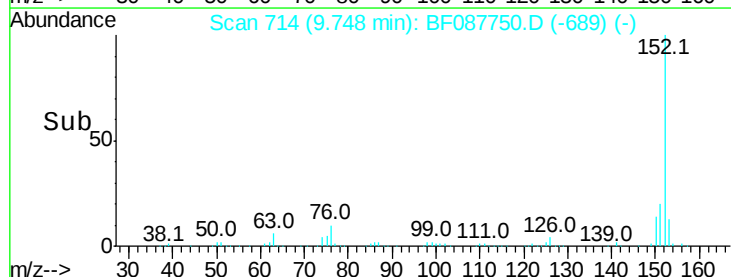
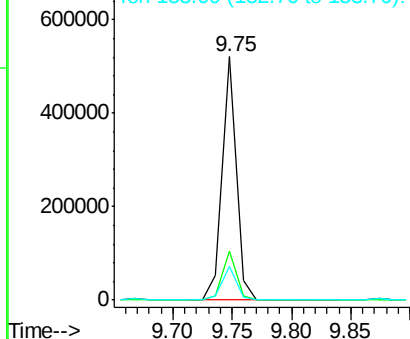
Lab File: BF087750.D

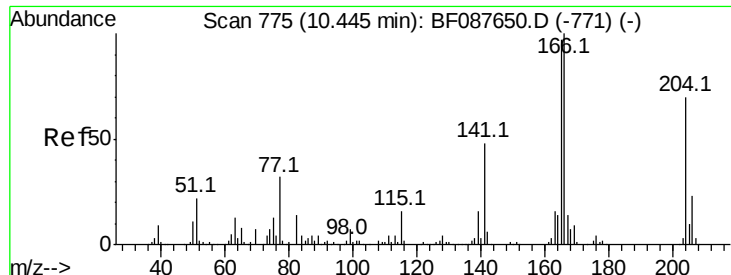
Acq: 6 Jun 2016 14:13

Tgt Ion:	152	Resp:	424921
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.2	24.4
153	13.7	11.0	16.6



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





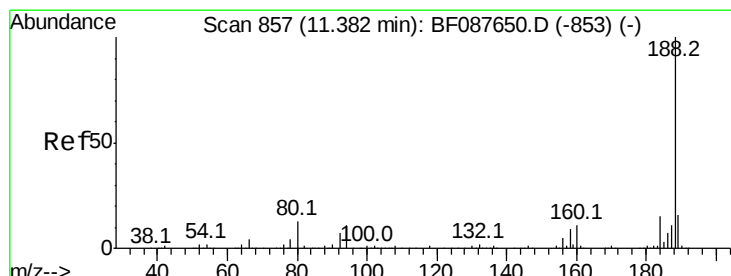
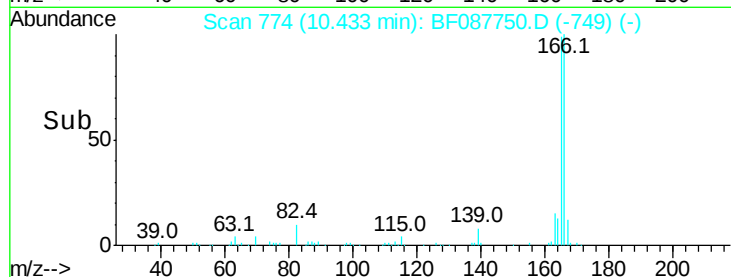
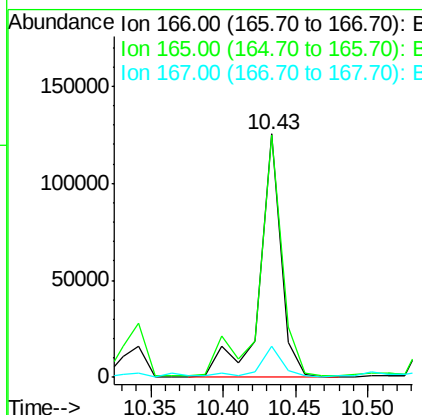
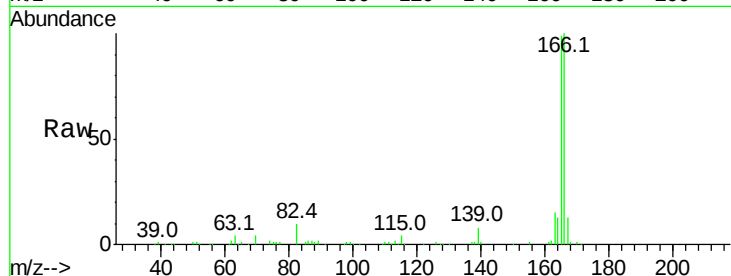
#57
Fluorene
 Concen: 10.09 ng
 RT: 10.43 min Scan# 774
 Delta R.T. -0.01 min
 Lab File: BF087750.D
 Acq: 6 Jun 2016 14:13

Instrument :
 BNA_F
 ClientSampleId :
 WC-201605A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	129416		
165	99.4	77.8	116.8	
167	12.9	11.2	16.8	

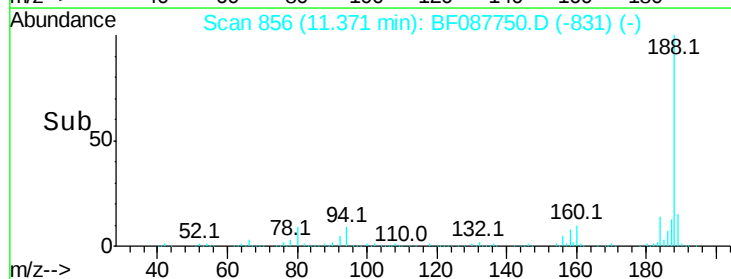
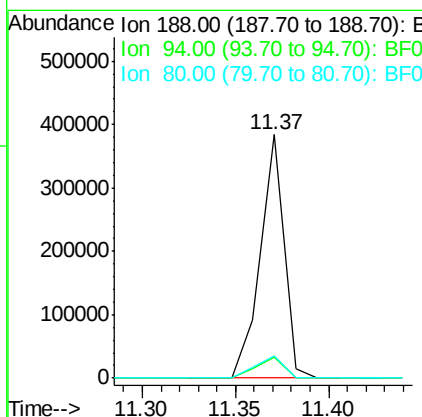
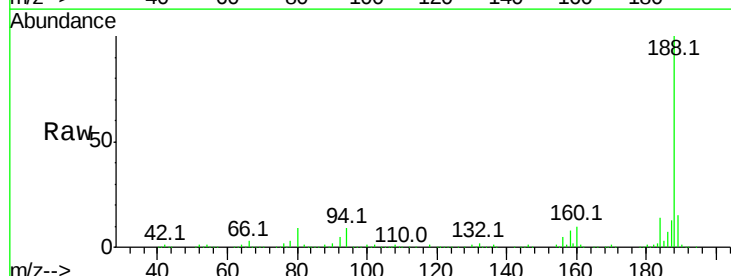
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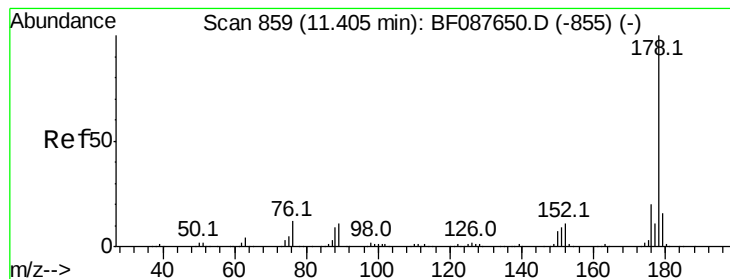
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.37 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: BF087750.D
 Acq: 6 Jun 2016 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	337131		
94	8.7	9.0	13.6#	
80	8.9	10.0	15.0#	





#70

Phenanthrene

Concen: 21.88 ng

RT: 11.39 min Scan# 858

Delta R.T. -0.01 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Instrument :

BNA_F

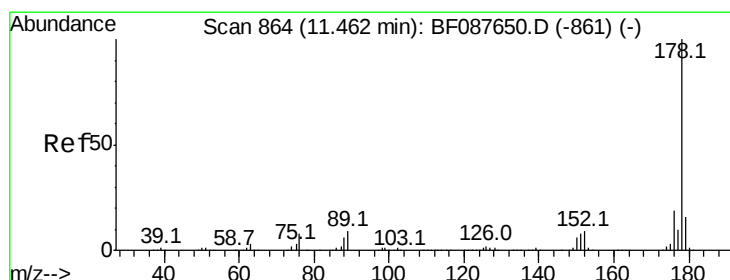
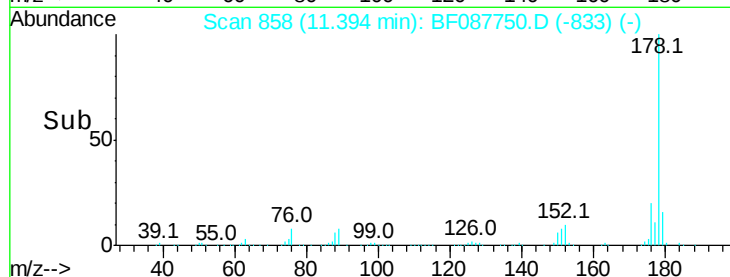
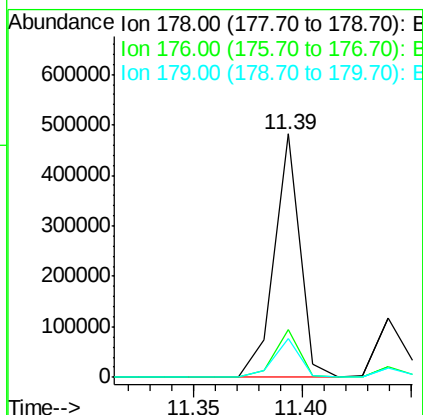
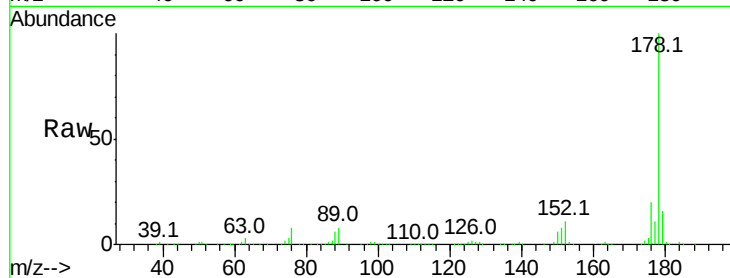
ClientSampleId :

WC-201605A

Tot Ion:178	Resp:	400007
Ion Ratio	Lower	Upper
178	100	
176	19.5	15.8 23.6
179	15.7	13.0 19.4

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#71

Anthracene

Concen: 5.85 ng

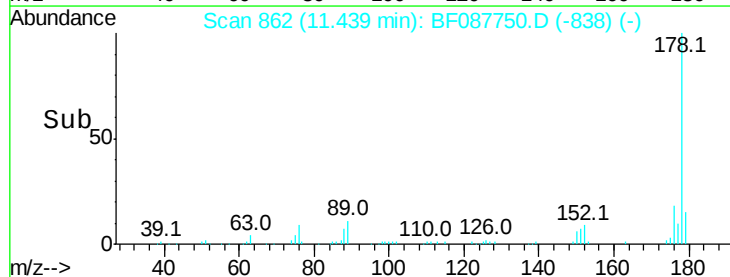
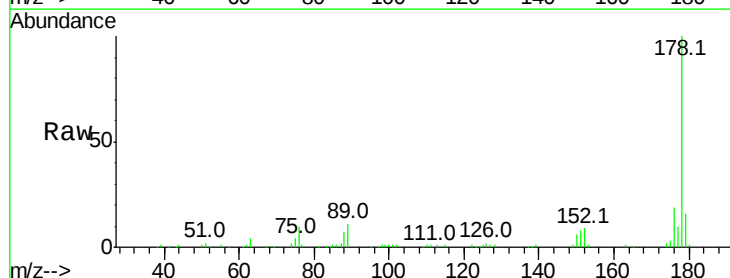
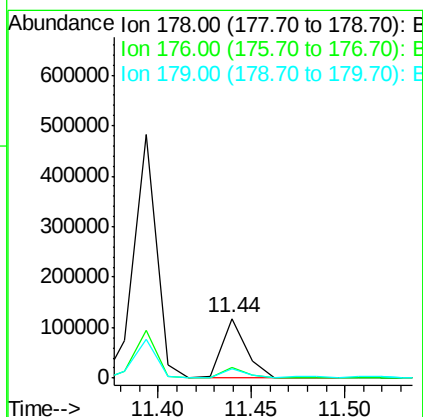
RT: 11.44 min Scan# 862

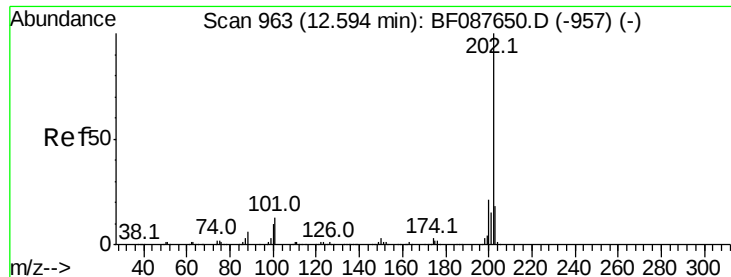
Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Tgt Ion:178	Resp:	107057
Ion Ratio	Lower	Upper
178	100	
176	18.6	15.6 23.4
179	15.7	12.8 19.2





#74

Fluoranthene

Concen: 7.01 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Instrument :

BNA_F

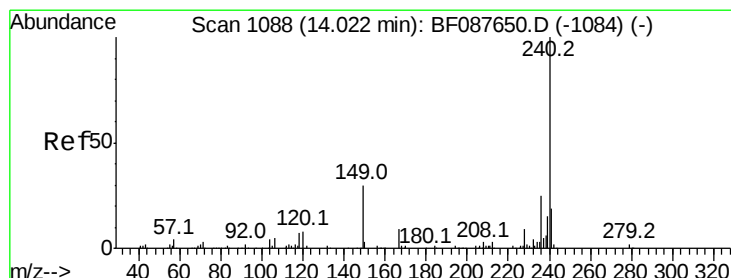
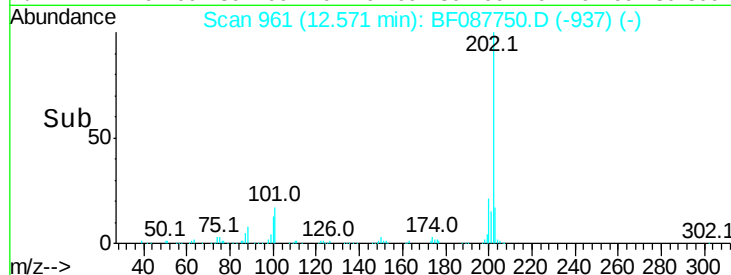
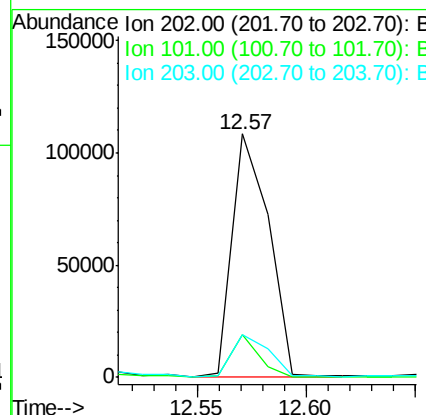
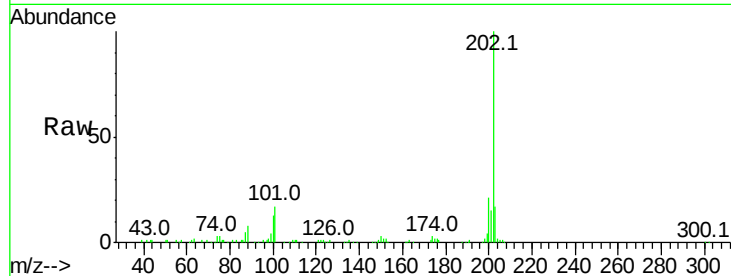
ClientSampleId :

WC-201605A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		126145		
101	17.4	0.0	33.1		
203	17.5	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.00 ng

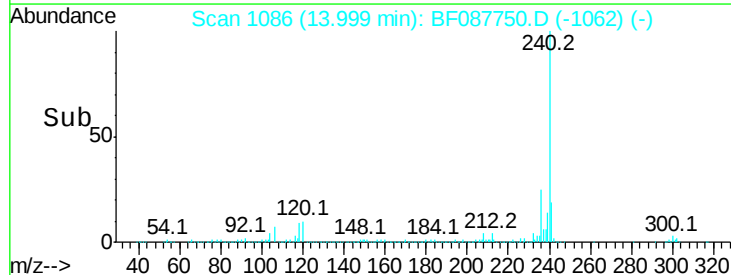
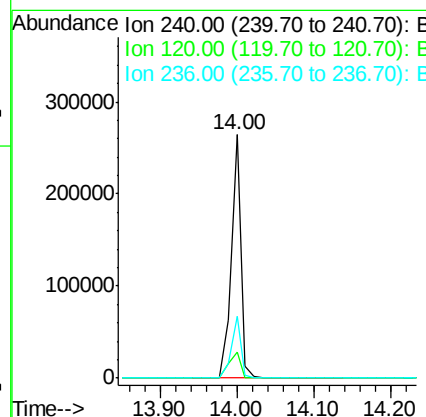
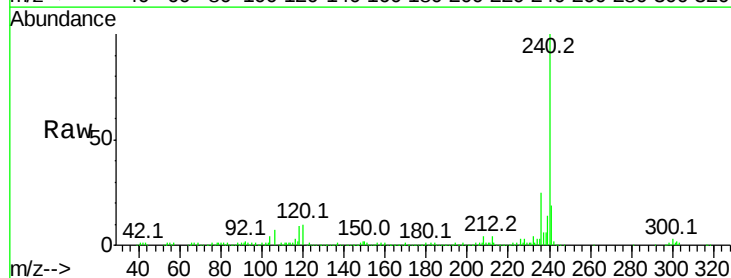
RT: 14.00 min Scan# 1086

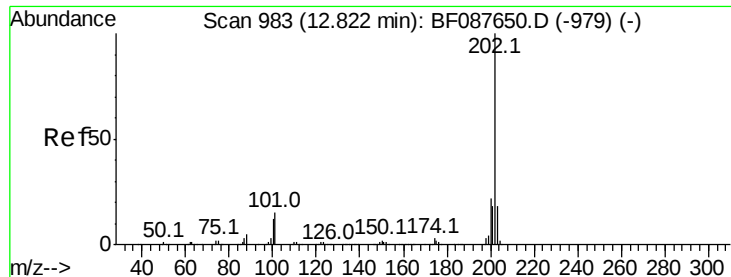
Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		238027		
120	10.5	6.8	10.2#		
236	25.4	20.2	30.2		





#77

Pvrene

Concen: 11.05 ng

RT: 12.80 min Scan# 981

Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Instrument :

BNA_F

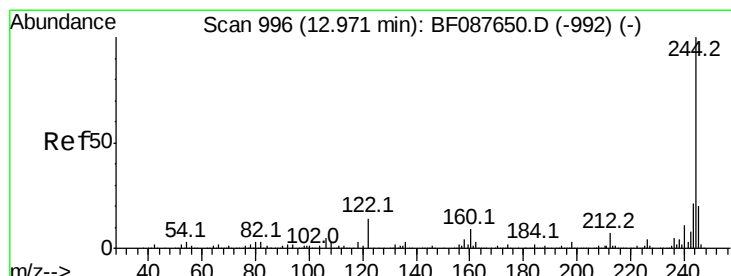
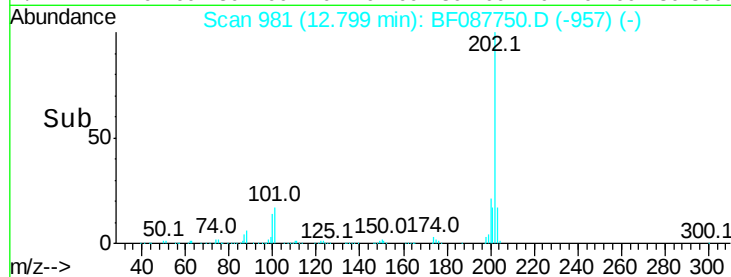
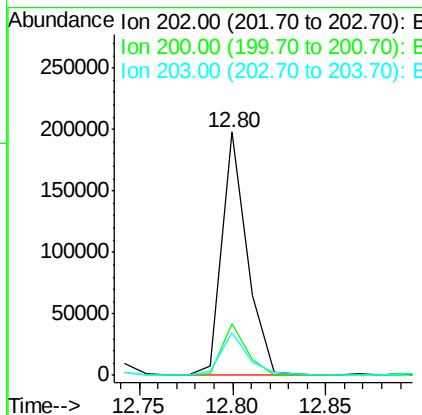
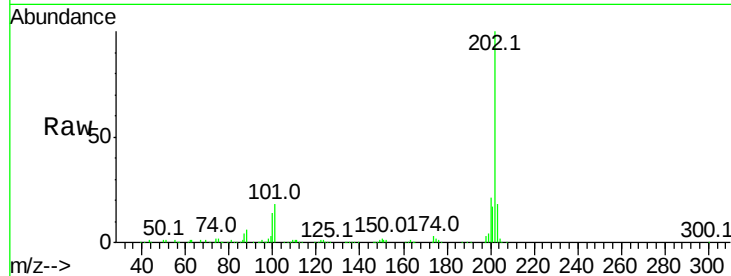
ClientSampleId :

WC-201605A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	20.9		17.4	26.2	
203	17.8		14.5	21.7	

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#78

Terphenyl-d14

Concen: 2.45 ng

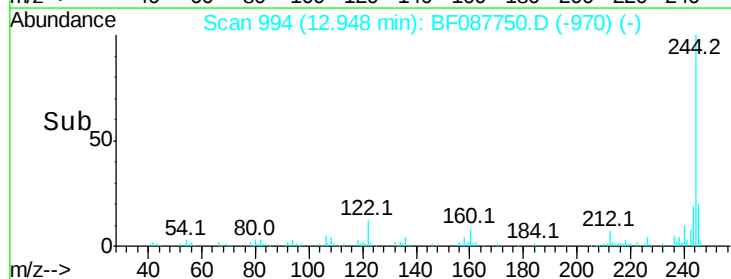
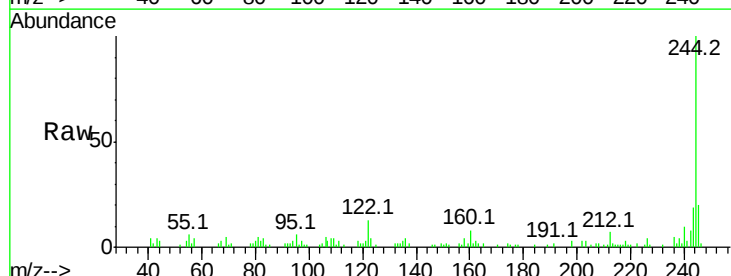
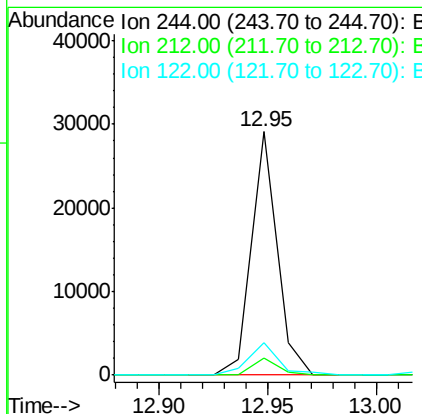
RT: 12.95 min Scan# 994

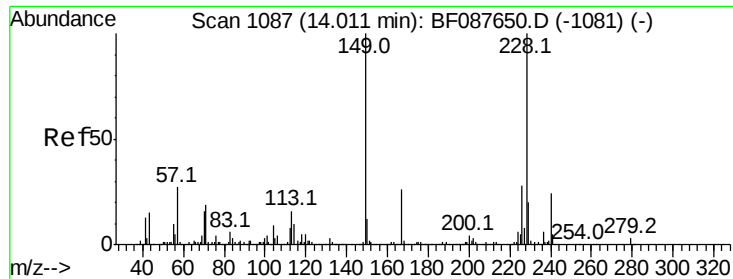
Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100				
212	6.8		6.0	9.0	
122	13.4		11.2	16.8	





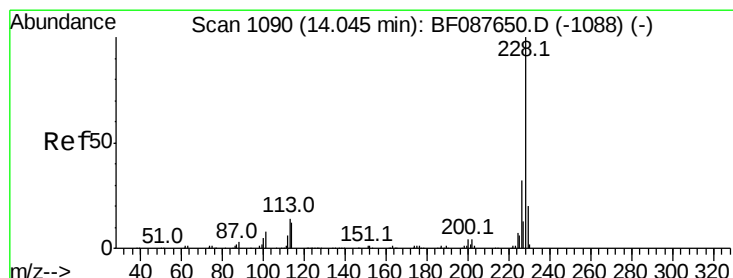
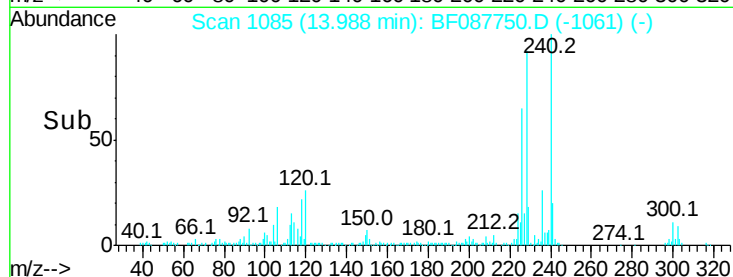
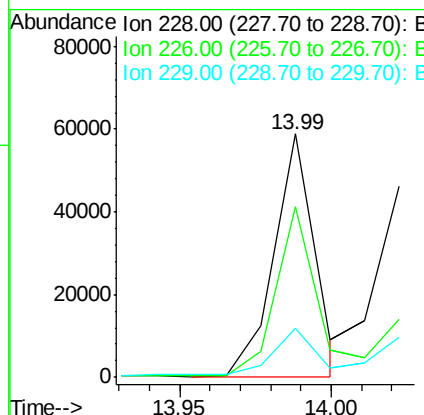
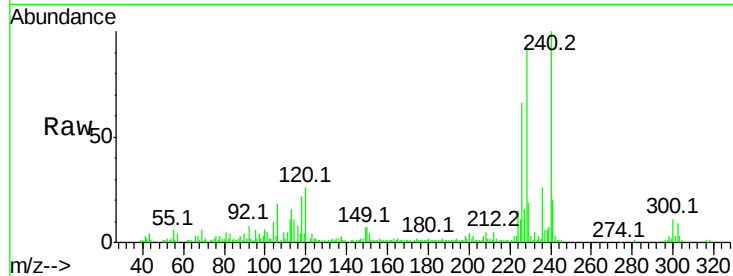
#80
 Benzo(a)anthracene
 Concen: 4.04 ng m
 RT: 13.99 min Scan# 1085
 Delta R.T. -0.02 min
 Lab File: BF087750.D
 Acq: 6 Jun 2016 14:13

Instrument :
 BNA_F
 ClientSampleId :
 WC-201605A

Tot Ion:	228	Resp:	55477
Ion Ratio	Lower	Upper	
228	100		
226	70.1	22.3	33.5#
229	20.3	16.0	24.0

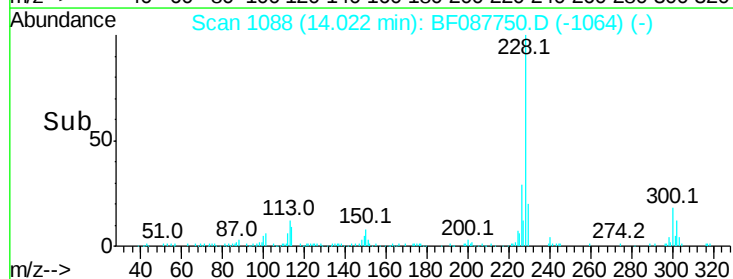
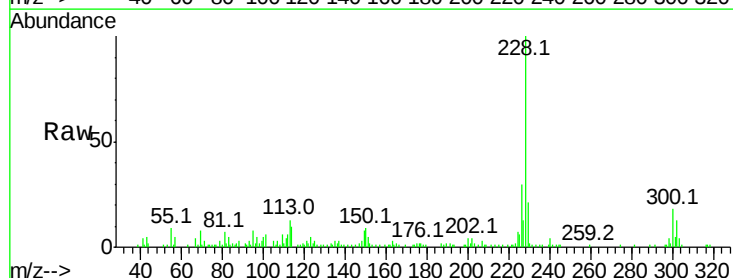
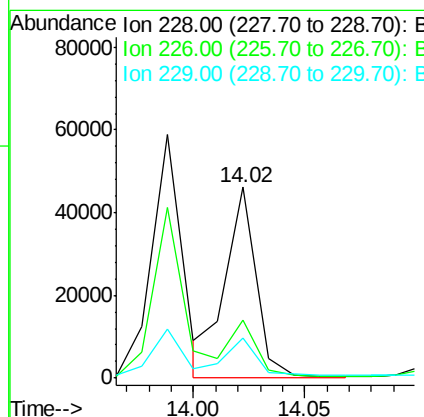
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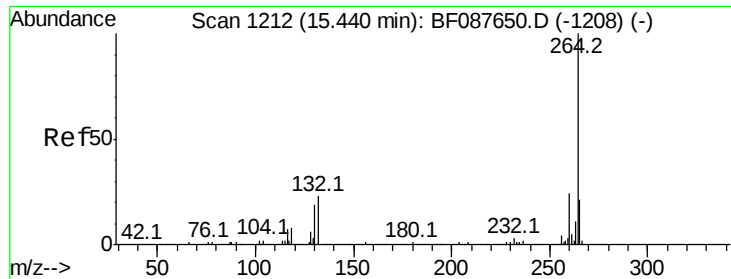
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#82
 Chrysene
 Concen: 3.33 ng m
 RT: 14.02 min Scan# 1088
 Delta R.T. -0.02 min
 Lab File: BF087750.D
 Acq: 6 Jun 2016 14:13

Tgt Ion:	228	Resp:	45544
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.4	38.2
229	21.1	16.3	24.5





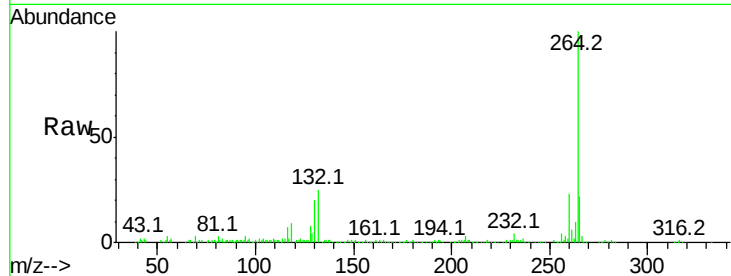
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.42 min Scan# 1210
Delta R.T. -0.02 min
Lab File: BF087750.D
Acq: 6 Jun 2016 14:13

Instrument :
BNA_F
ClientSampleId :
WC-201605A

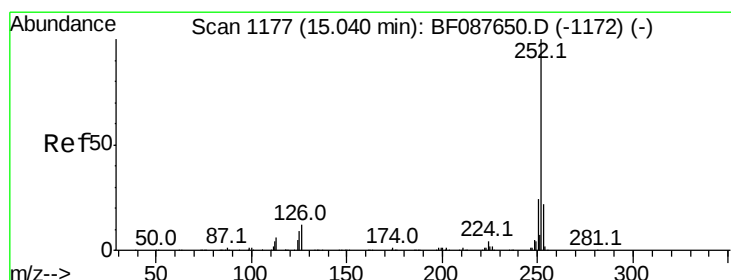
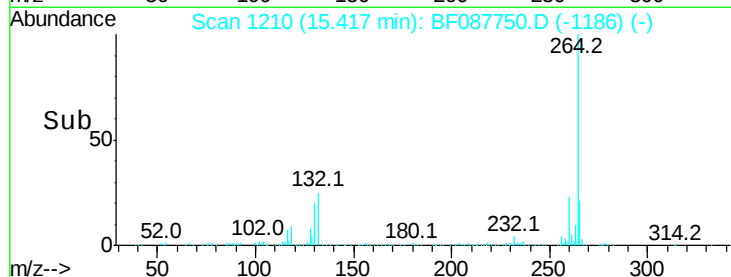
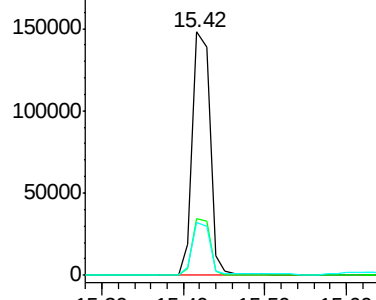
Tot Ion	Ratio	Resp	Lower	Upper
264	100	223274		
260	23.2	19.2	28.8	
265	21.7	16.9	25.3	

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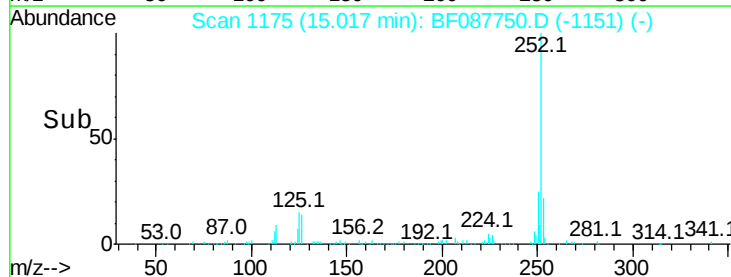
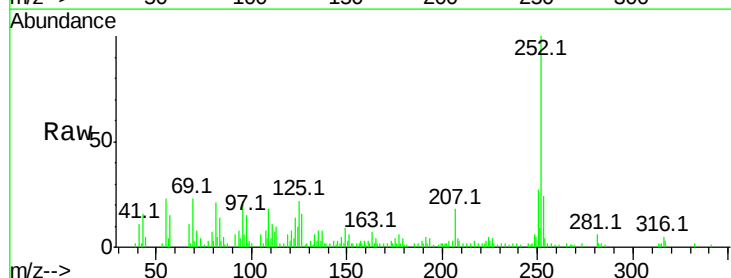
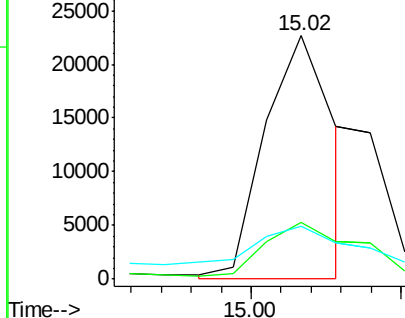
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

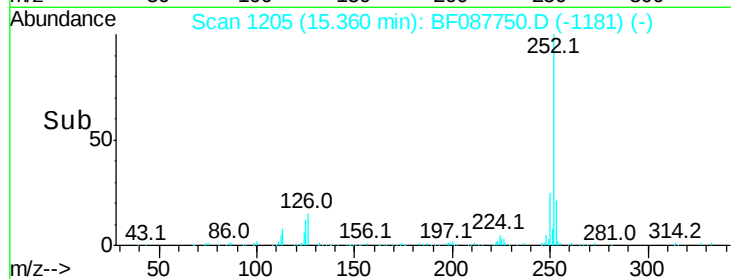
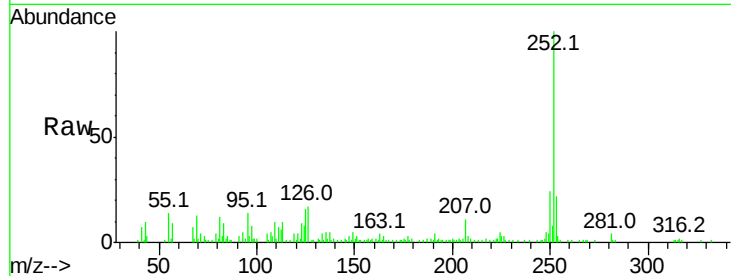
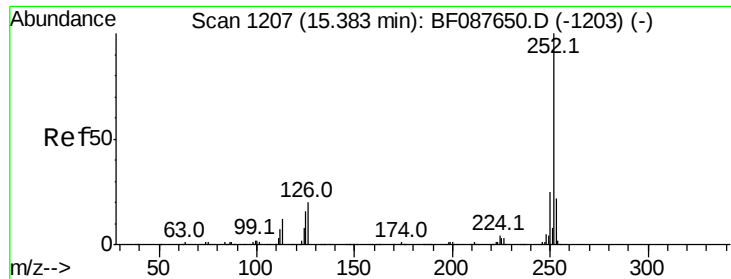


#87
Benzo(b)fluoranthene
Concen: 2.49 ng m
RT: 15.02 min Scan# 1175
Delta R.T. -0.02 min
Lab File: BF087750.D
Acq: 6 Jun 2016 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	36168		
253	23.5	17.4	26.2	
125	21.5	7.1	10.7#	

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 3.66 ng

RT: 15.36 min Scan# 1205

Delta R.T. -0.02 min

Lab File: BF087750.D

Acq: 6 Jun 2016 14:13

Instrument :

BNA_F

ClientSampleId :

WC-201605A

Tot Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.2	17.9	26.9	
125	15.9	12.5	18.7	

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