

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050817\
 Data File : BF095011.D
 Acq On : 9 May 2017 8:22
 Operator : SJ/MA
 Sample : I3022-01 100X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-15

Manual Integrations
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Quant Time: May 09 13:28:30 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	84715	20.00	ng	-0.02
21) Naphthalene-d8	9.73	136	353443	20.00	ng	-0.02
38) Acenaphthene-d10	12.56	164	155767	20.00	ng	-0.02
63) Phenanthrene-d10	14.97	188	247911	20.00	ng	-0.02
75) Chrysene-d12	18.63	240	182981	20.00	ng	-0.02
86) Perylene-d12	20.29	264	151378	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0d	0.00	ng	
7) Phenol-d6	0.00	99	0d	0.00	ng	
23) Nitrobenzene-d5	8.70	82	1168	0.21	ng	0.06
41) 2,4,6-Tribromophenol	13.89	330	393	0.31	ng	0.01
44) 2-Fluorobiphenyl	11.51	172	6467	0.60	ng	-0.02
78) Terphenyl-d14	17.29	244	4169	0.50	ng	-0.02
Target Compounds						
31) Naphthalene	9.78	128	2463721	138.69	ng	99
37) 2-Methylnaphthalene	10.89	142	632401	54.24	ng	97
45) 1,1'-Biphenyl	11.65	154	274012	20.89	ng	97
48) Acenaphthylene	12.34	152	1001517	60.38	ng	98
51) Acenaphthene	12.61	154	79746	8.05	ng	99
54) Dibenzofuran	12.91	168	64208	4.68	ng	97
57) Fluorene	13.46	166	507684	42.59	ng	99
70) Phenanthrene	15.01	178	1808533	126.97	ng	99
71) Anthracene	15.09	178	1113487	76.53	ng	99
74) Fluoranthene	16.75	202	746100	51.06	ng	98
77) Pyrene	17.05	202	996552	72.82	ng	99
80) Benzo(a)anthracene	18.62	228	236373m	22.20	ng	
82) Chrysene	18.67	228	233237	22.65	ng	98
85) Indeno(1,2,3-cd)pyrene	21.59	276	64478	7.71	ng	95
87) Benzo(b)fluoranthene	19.89	252	148840m	15.91	ng	
88) Benzo(k)fluoranthene	19.92	252	54935m	6.09	ng	
89) Benzo(a)pyrene	20.24	252	175420	20.32	ng	99
91) Benzo(g,h,i)perylene	21.96	276	66270	9.47	ng	98

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

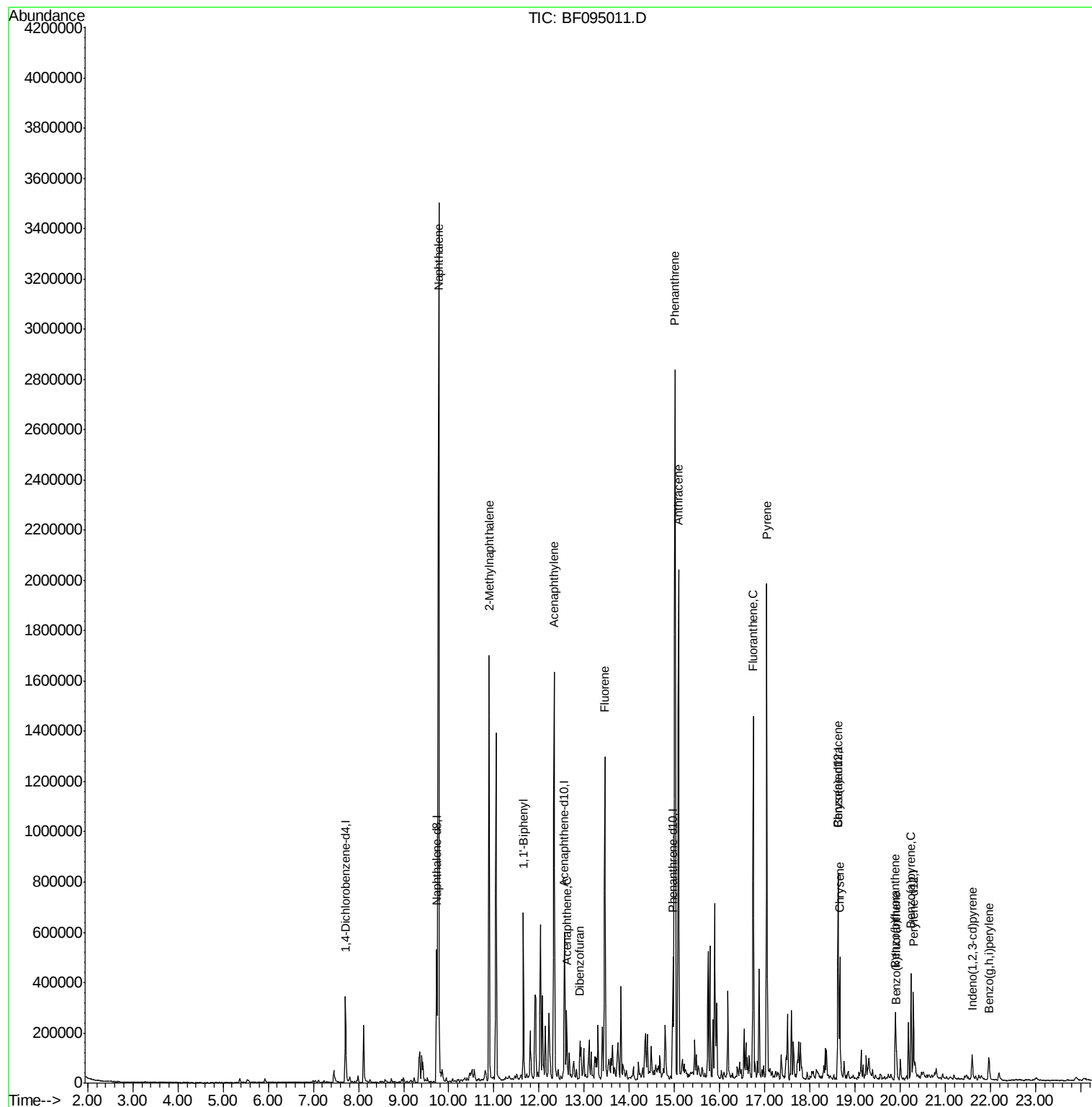
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050817\
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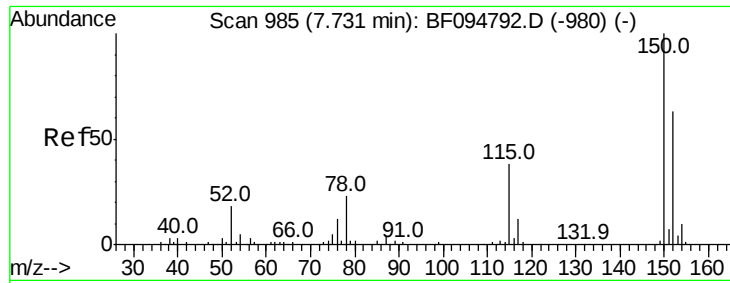
Instrument :
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#1

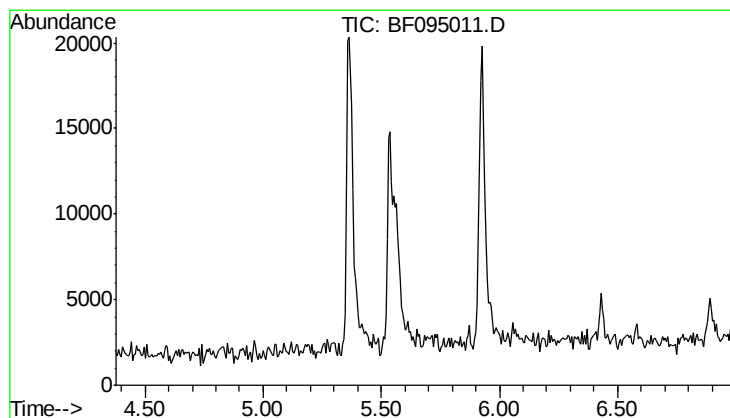
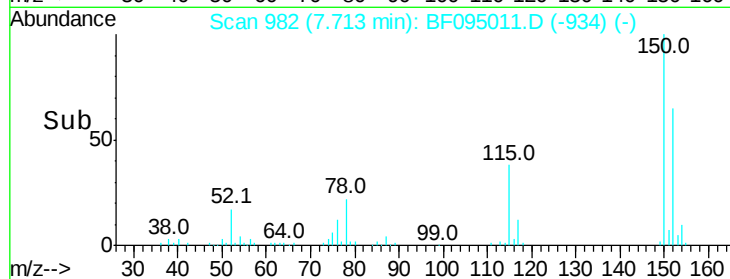
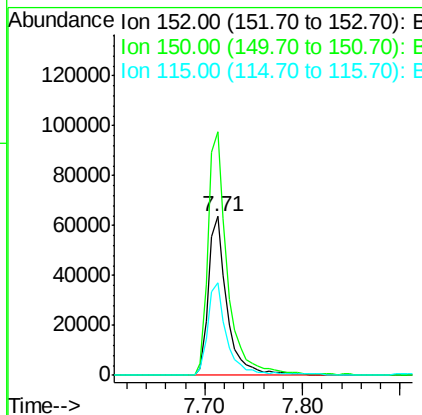
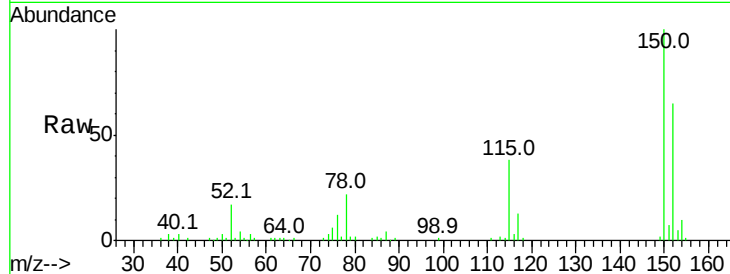
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.71 min Scan# 982
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
WC-COMP-15

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.3	126.2	189.2
115	58.7	52.2	78.2

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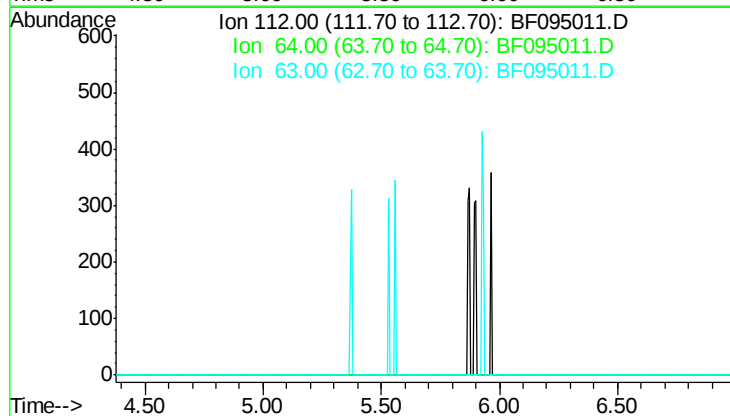


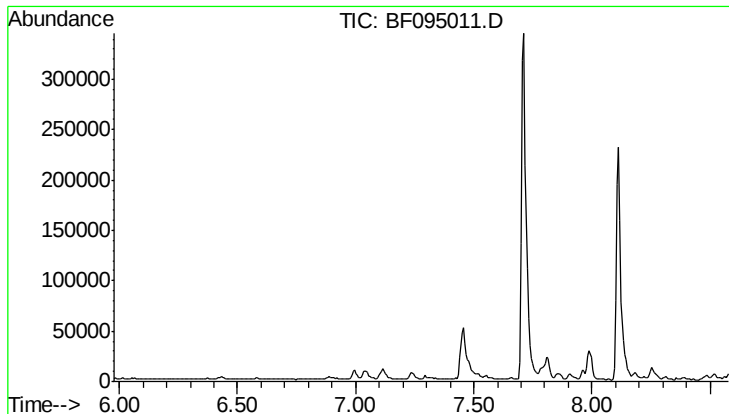
#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.68 min

Lab File: BF095011.D
Acq: 9 May 2017 8:22

Tgt Ion	Sig	Exp Ratio
112	100	
64	57.5	
63	29.2	





#7

Phenol-d6

Concen: 0.00 ng

Expected RT: 7.28 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Tot Ion: 99

Sig Exp Ratio

99 100

42 16.9

71 30.6

Instrument :

BNA_F

ClientSampleId :

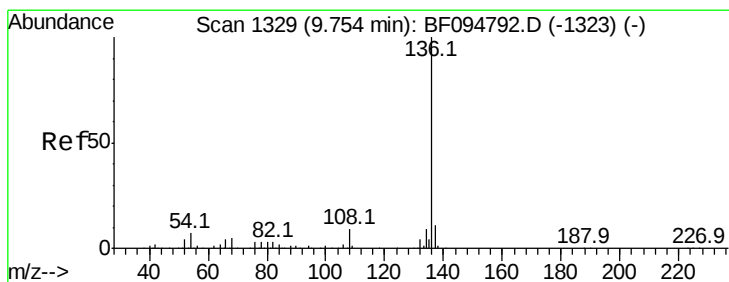
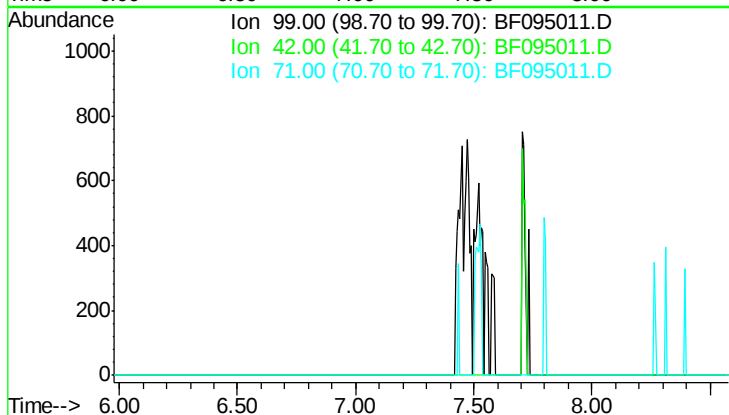
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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.73 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Tgt Ion:136 Resp: 353443

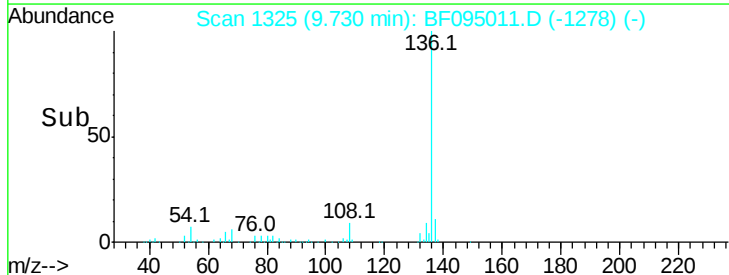
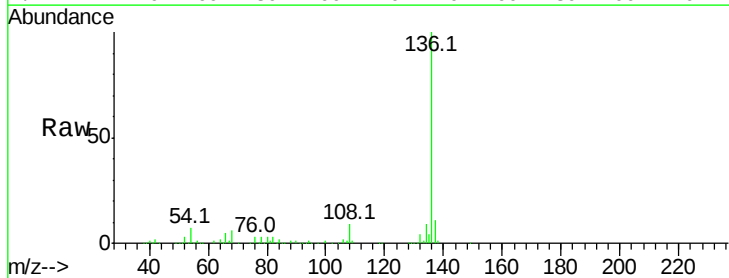
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.2 4.9 7.3

68 5.6 4.1 6.1

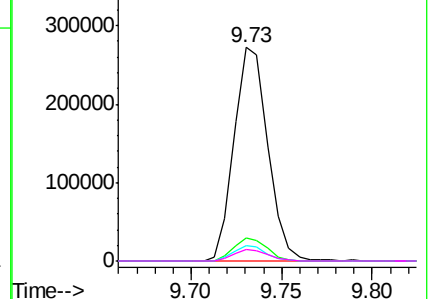


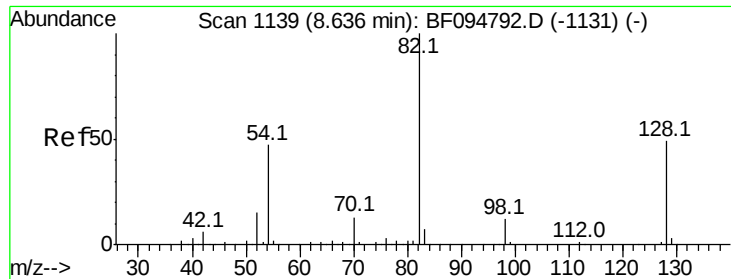
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





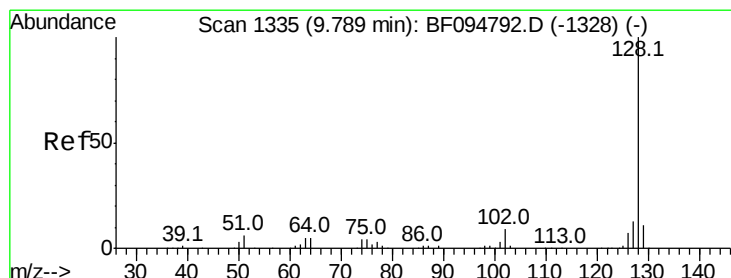
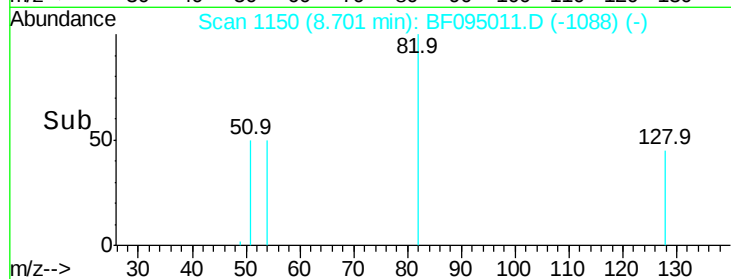
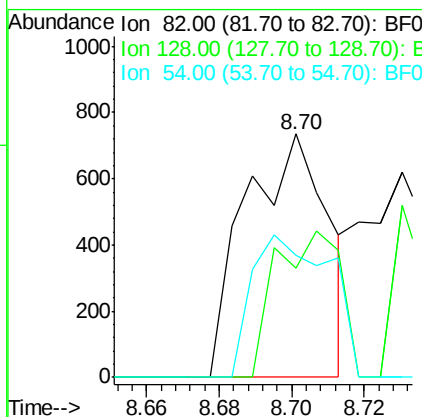
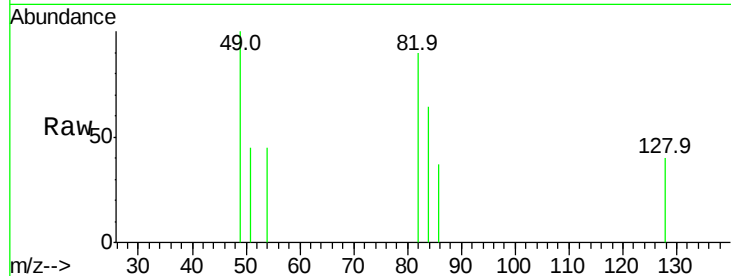
#23
 Nitrobenzene-d5
 Concen: 0.21 ng
 RT: 8.70 min Scan# 1150
 Delta R.T. 0.06 min
 Lab File: BF095011.D
 Acq: 9 May 2017 8:22

Instrument :
 BNA_F
 ClientSampleID :
 WC-COMP-15

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.0	51.0
54	49.9	42.2	63.2

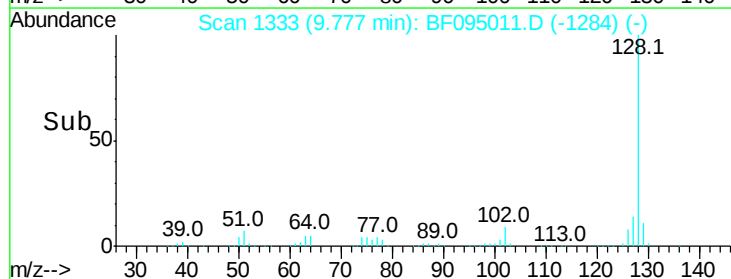
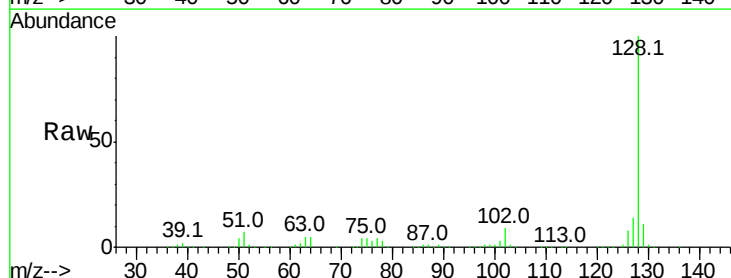
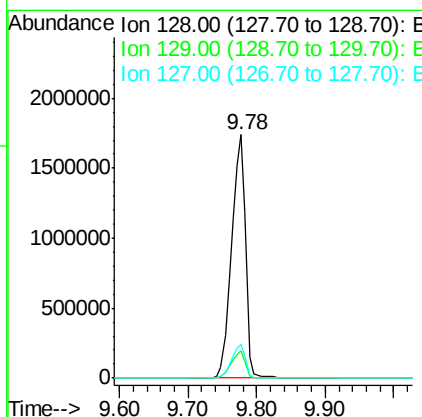
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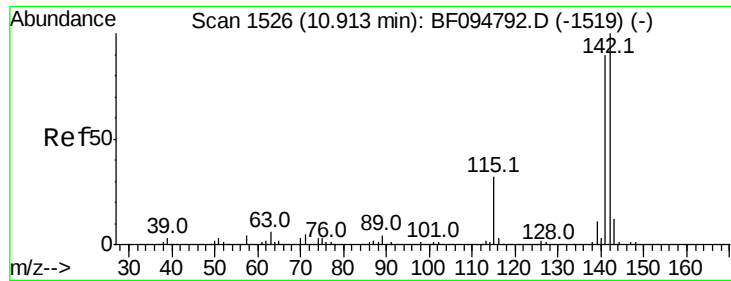
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#31
 Naphthalene
 Concen: 138.69 ng
 RT: 9.78 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: BF095011.D
 Acq: 9 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	14.0	10.8	16.2





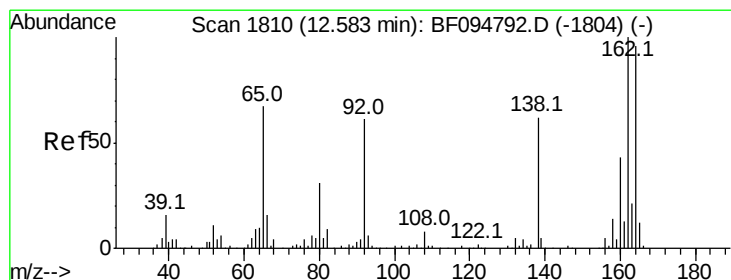
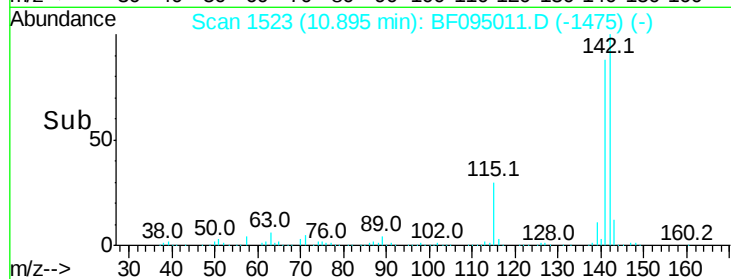
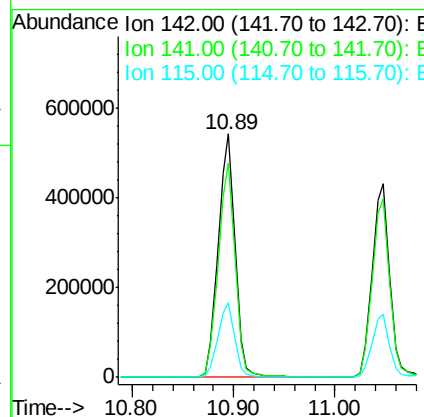
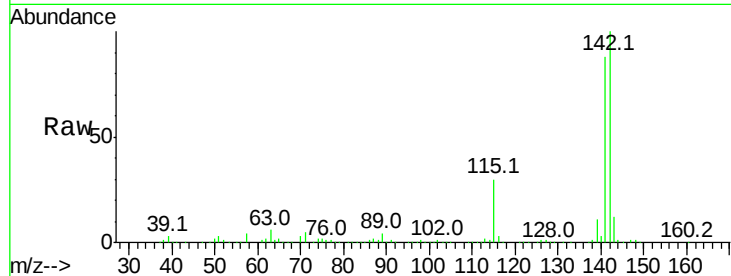
#37
2-Methylnaphthalene
Concen: 54.24 ng
RT: 10.89 min Scan# 1523
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
WC-COMP-15

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.3	106.9
115	30.4	27.1	40.7

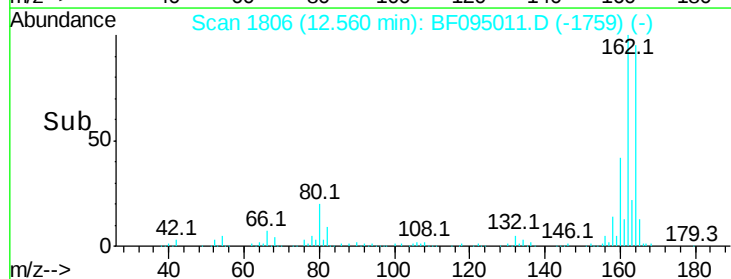
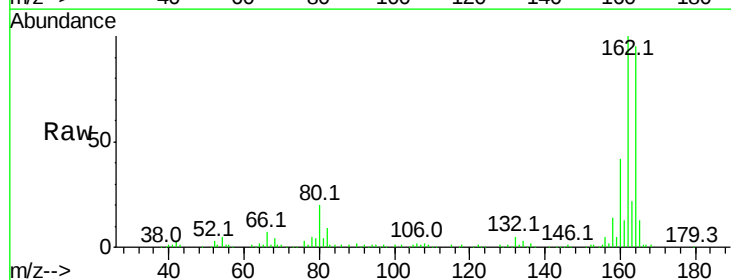
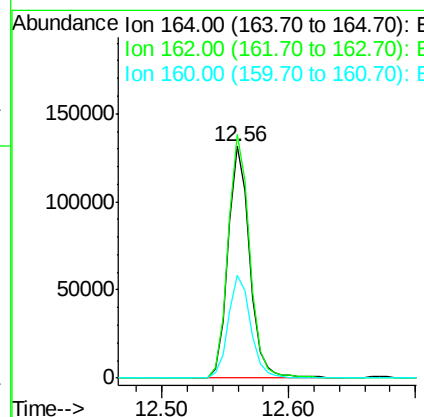
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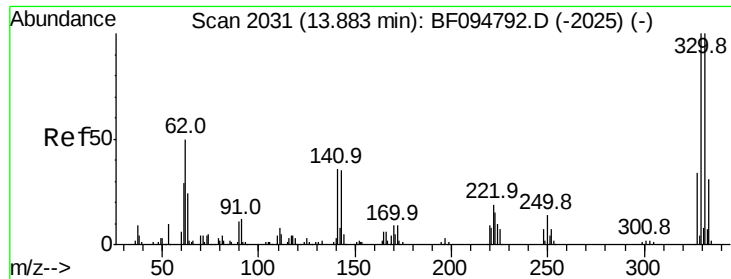
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.56 min Scan# 1806
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.1	82.6	123.8
160	44.4	36.2	54.2





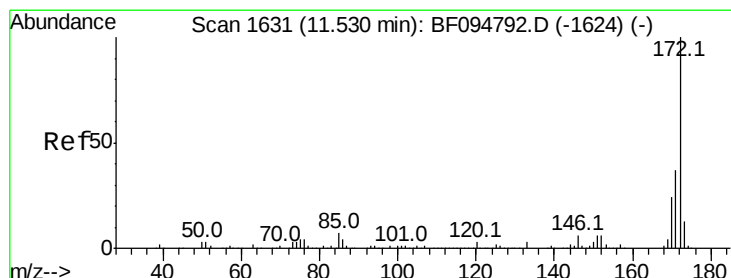
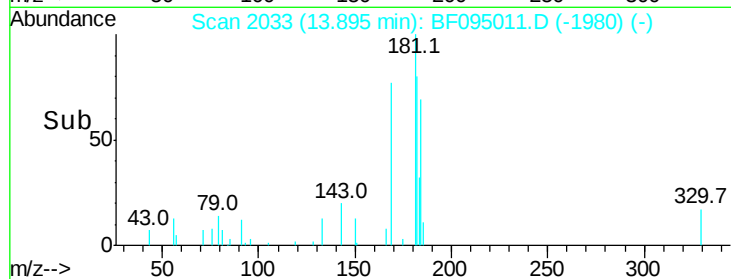
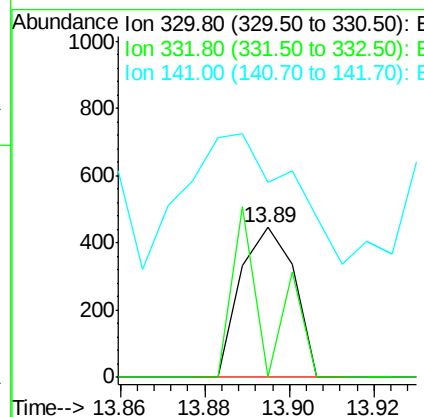
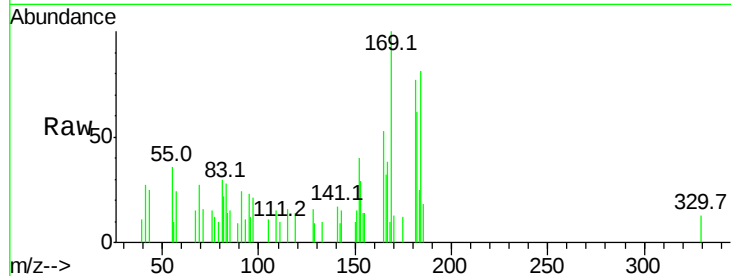
#41
 2,4,6-Tribromophenol
 Concen: 0.31 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. 0.01 min
 Lab File: BF095011.D
 Acq: 9 May 2017 8:22

Instrument :
 BNA_F
 ClientSampleId :
 WC-COMP-15

Tot Ion	Ratio	Lower	Upper
330	100		
332	73.8	76.6	115.0#
141	265.4	31.4	47.2#

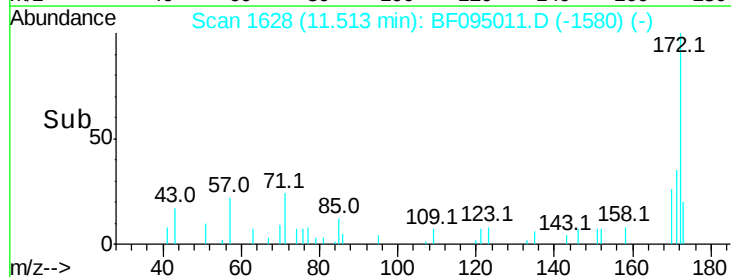
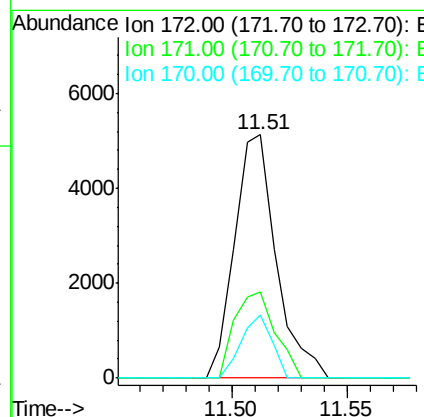
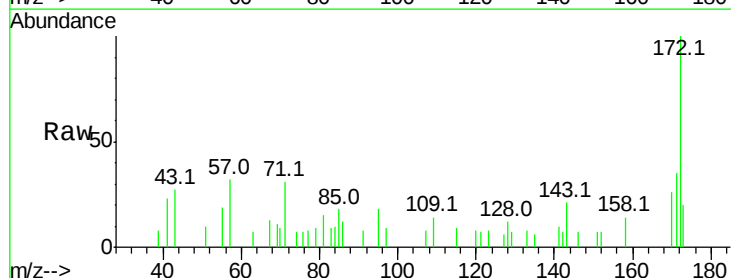
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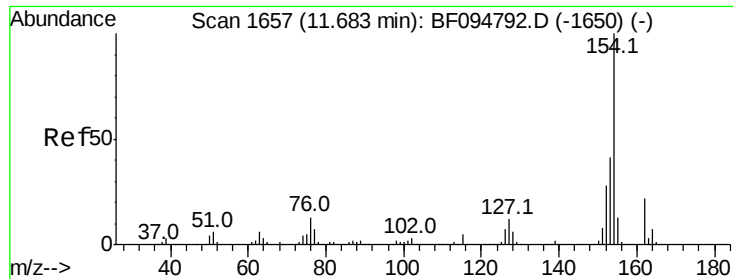
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#44
 2-Fluorobiphenyl
 Concen: 0.60 ng
 RT: 11.51 min Scan# 1628
 Delta R.T. -0.02 min
 Lab File: BF095011.D
 Acq: 9 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.6	44.4
170	26.1	19.8	29.8





#45

1,1'-Biphenyl

Concen: 20.89 ng

RT: 11.65 min Scan# 1652

Delta R.T. -0.03 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Instrument :

BNA_F

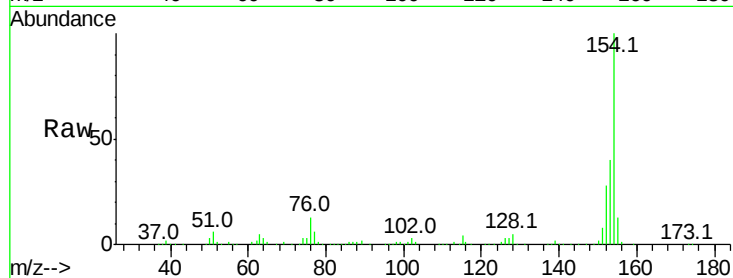
ClientSampleId :

WC-COMP-15

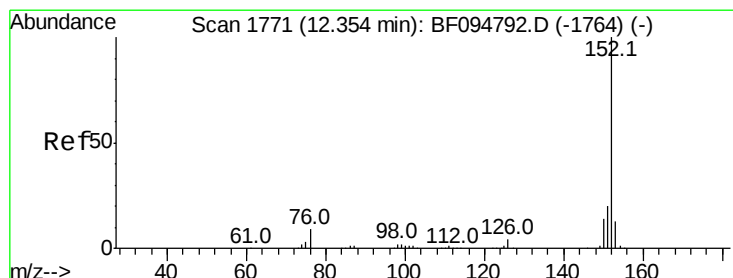
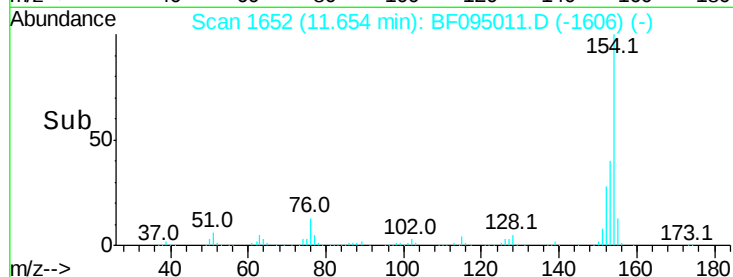
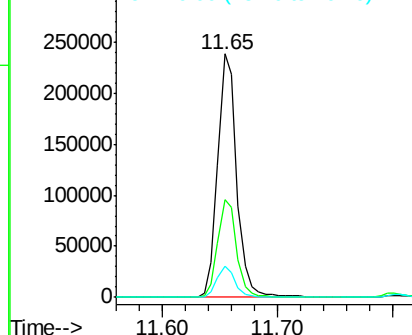
Tot Ion:	154	Resp:	274012
Ion Ratio	Lower	Upper	
154	100		
153	40.2	21.2	61.2
76	12.5	0.0	29.9

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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: 60.38 ng

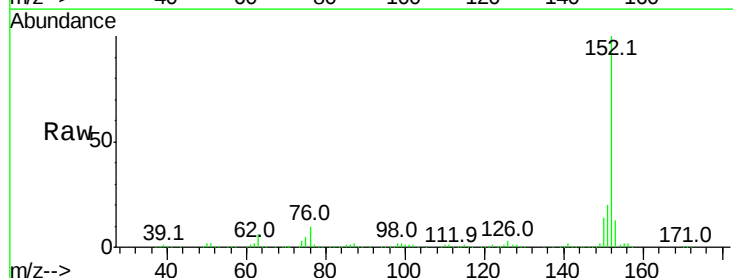
RT: 12.34 min Scan# 1768

Delta R.T. -0.02 min

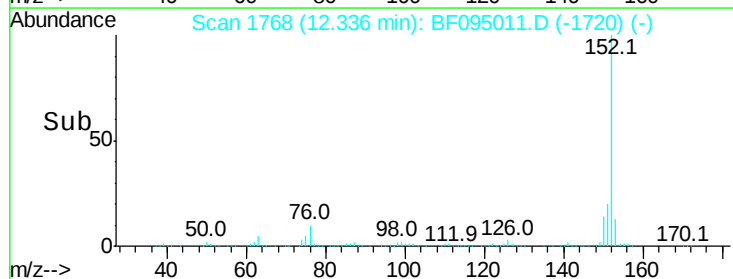
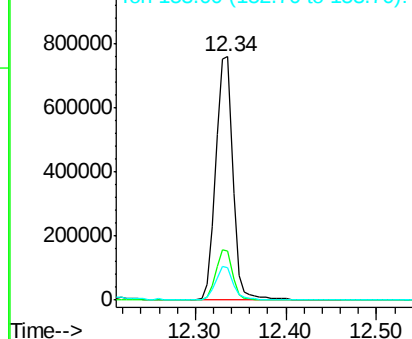
Lab File: BF095011.D

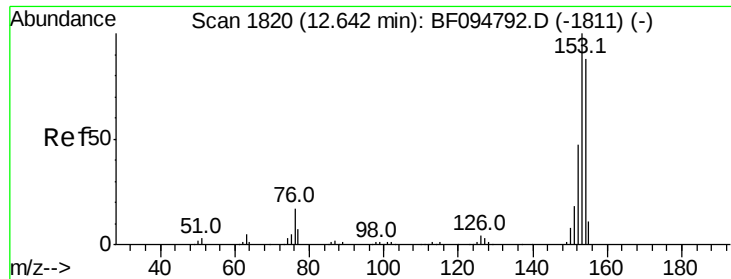
Acq: 9 May 2017 8:22

Tgt Ion:	152	Resp:	1001517
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.8	25.2
153	13.2	10.8	16.2



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





#51

Acenaphthene

Concen: 8.05 ng

RT: 12.61 min Scan# 1815

Delta R.T. -0.03 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Instrument :

BNA_F

ClientSampleId :

WC-COMP-15

Tot Ion:154 Resp: 79746

Ion Ratio Lower Upper

154 100

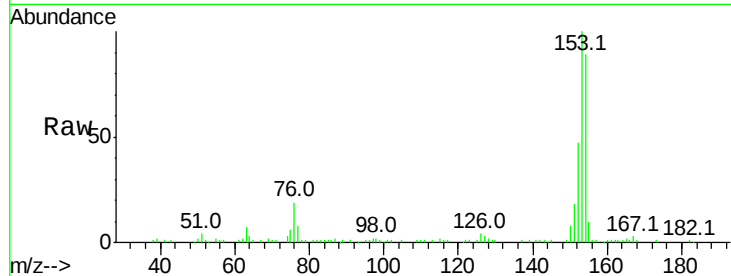
153 112.8 90.5 135.7

152 53.0 43.6 65.4

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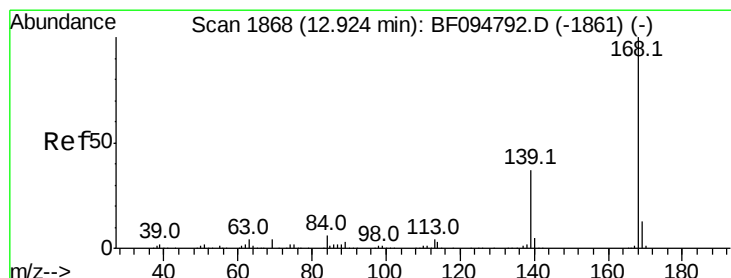
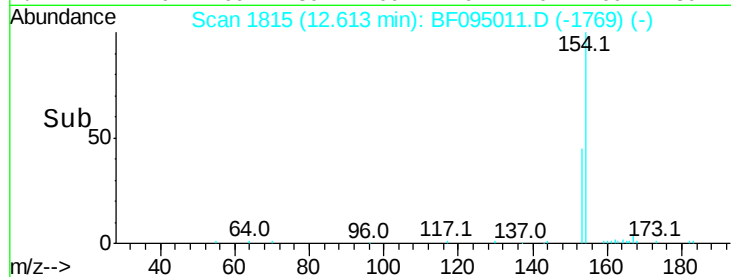
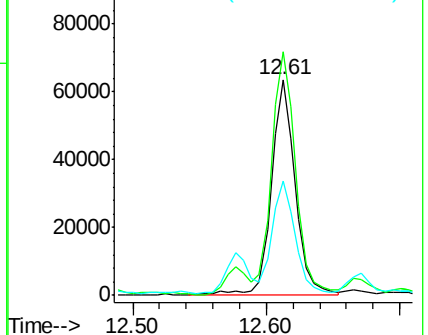
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.68 ng

RT: 12.91 min Scan# 1865

Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

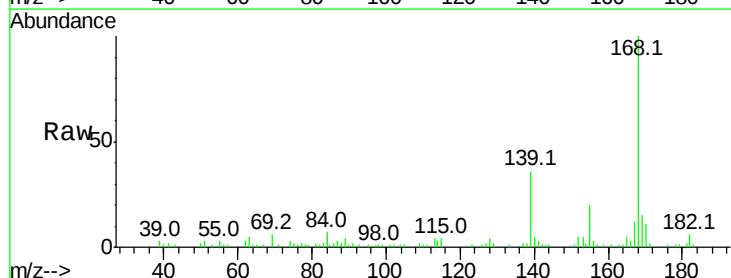
Tgt Ion:168 Resp: 64208

Ion Ratio Lower Upper

168 100

139 36.3 30.6 45.8

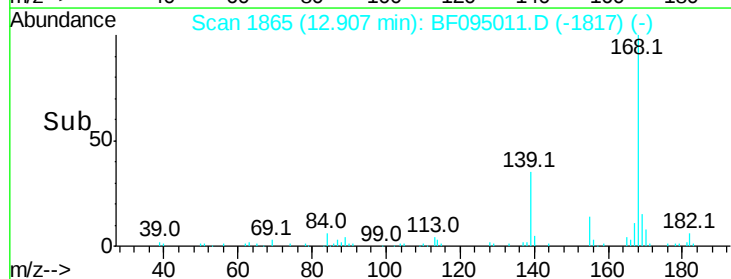
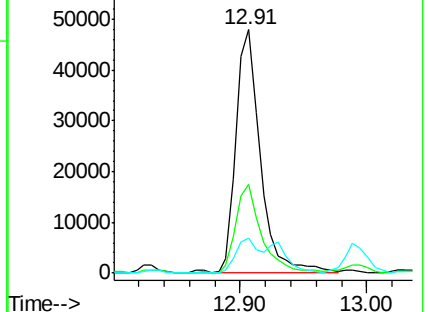
169 14.6 10.8 16.2

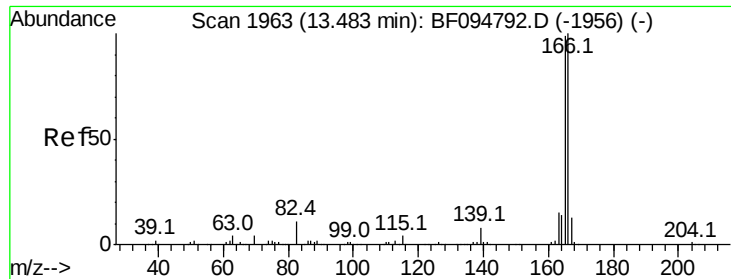


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 42.59 ng

RT: 13.46 min Scan# 1959

Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Instrument :

BNA_F

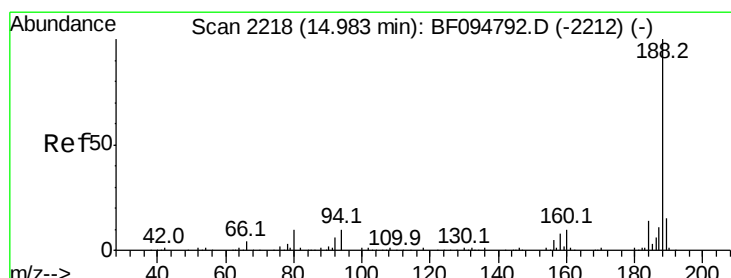
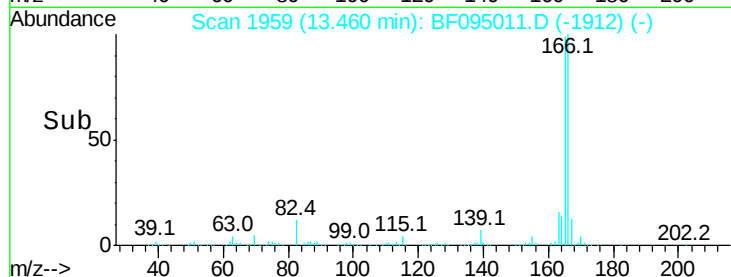
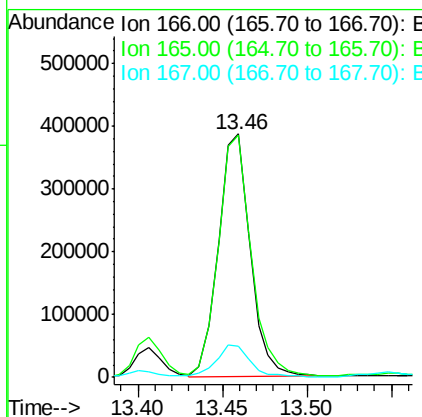
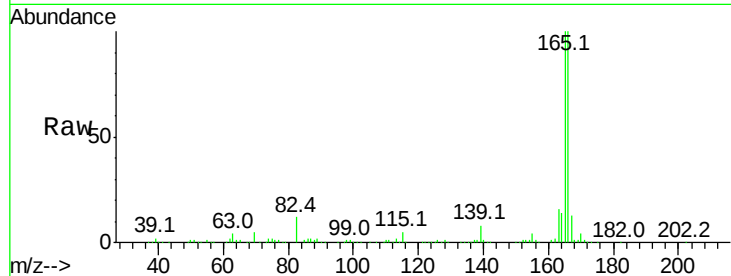
ClientSampleId :

WC-COMP-15

Tot Ion:	166	Resp:	507684
Ion Ratio	Lower	Upper	
166	100		
165	99.7	78.8	118.2
167	13.0	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.00 ng

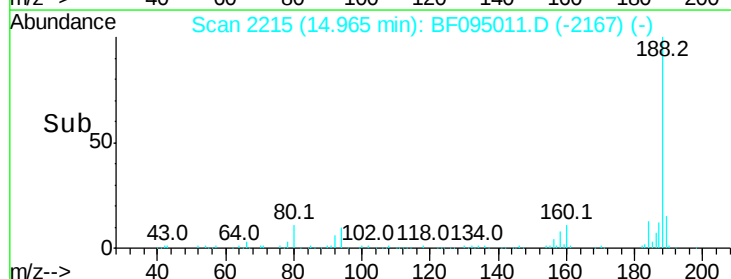
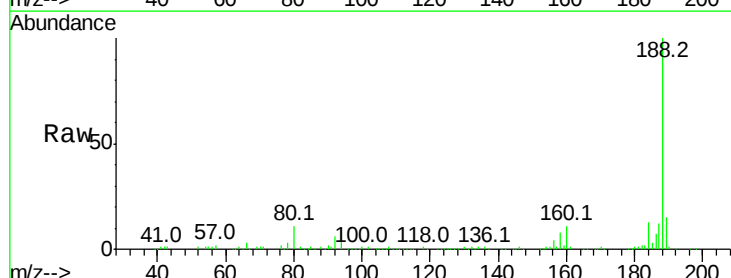
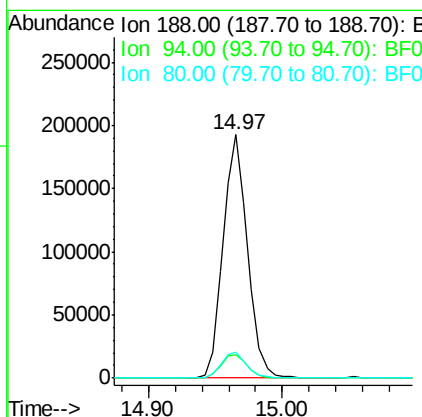
RT: 14.97 min Scan# 2215

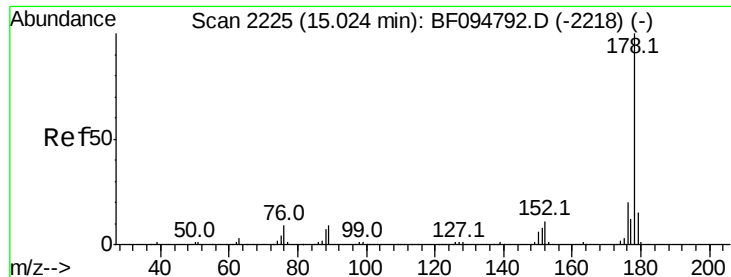
Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Tgt Ion:	188	Resp:	247911
Ion Ratio	Lower	Upper	
188	100		
94	9.9	9.4	14.2
80	10.8	10.2	15.2





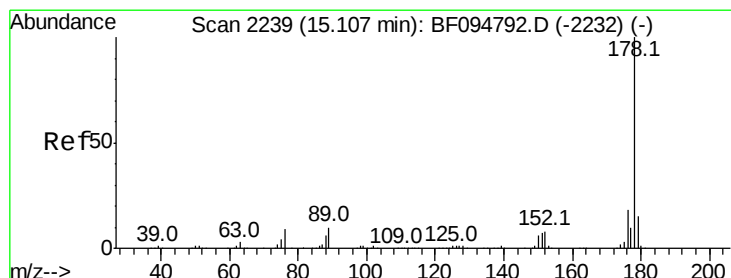
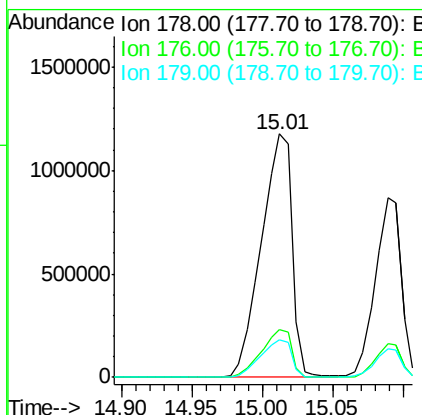
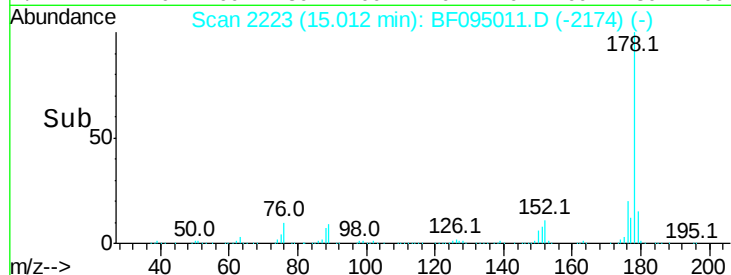
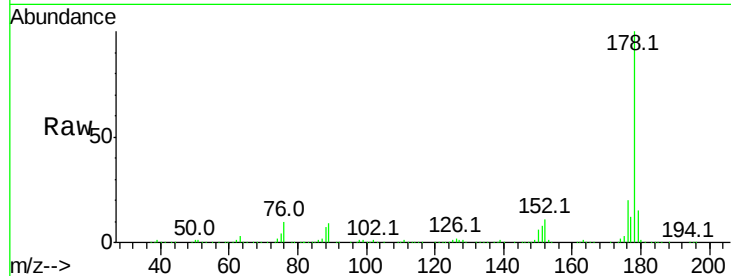
#70
Phenanthrene
Concen: 126.97 ng
RT: 15.01 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
WC-COMP-15

Tot Ion:178 Resp: 1808533
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.4 12.6 19.0

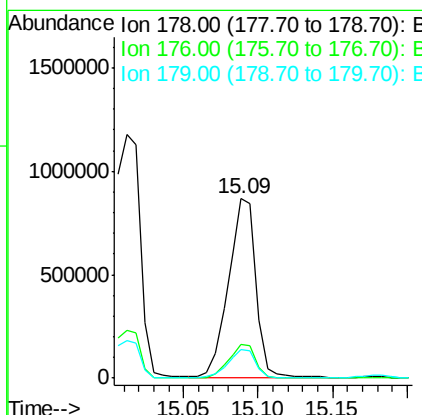
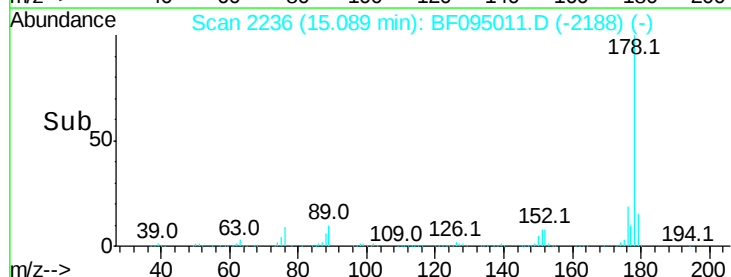
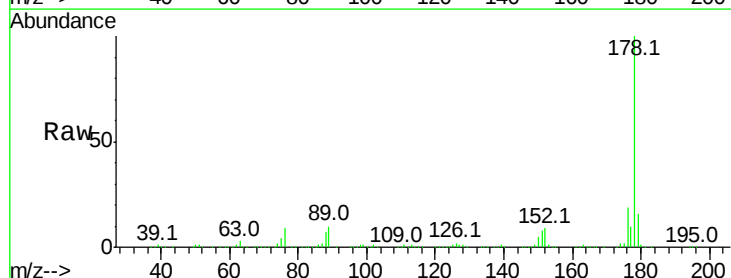
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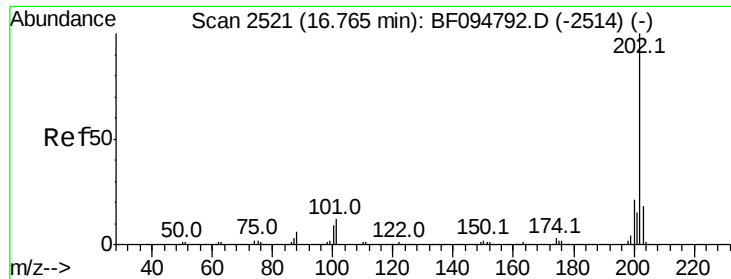
mohammad
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#71
Anthracene
Concen: 76.53 ng
RT: 15.09 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Tgt Ion:178 Resp: 1113487
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.8
179 15.7 12.7 19.1





#74

Fluoranthene

Concen: 51.06 ng

RT: 16.75 min Scan# 2518

Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Instrument :

BNA_F

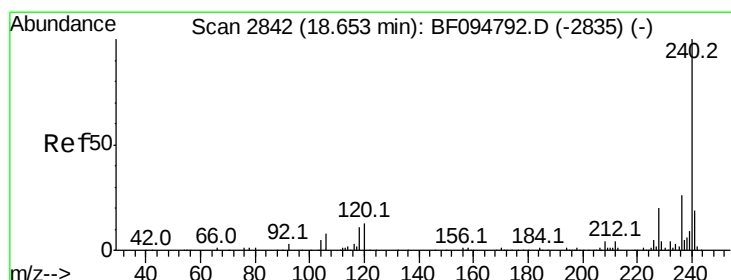
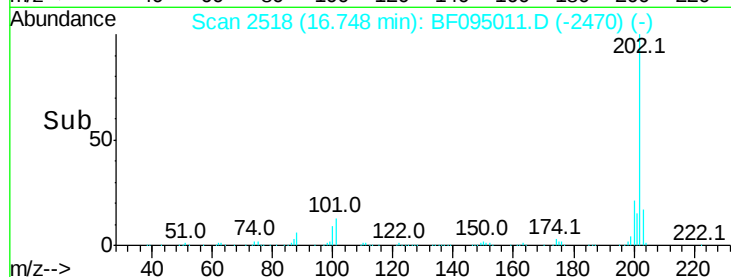
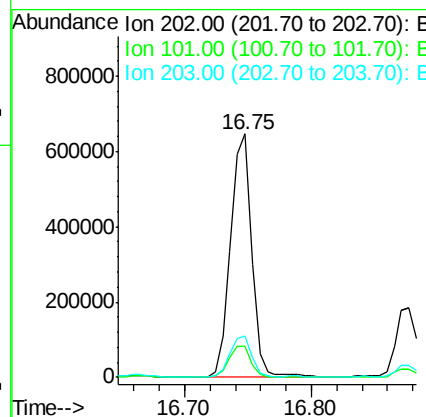
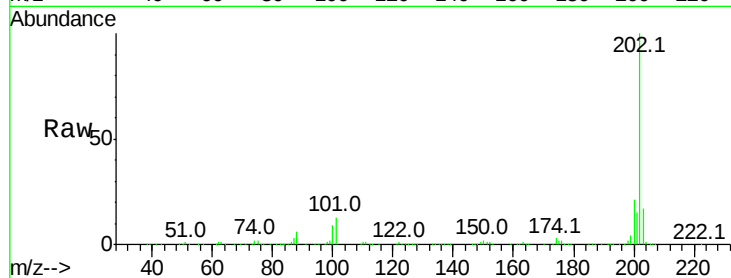
ClientSampleId :

WC-COMP-15

Tot Ion	Ratio	Resp	Lower	Upper
202	100	746100		
101	12.6	0.0	33.2	
203	16.9	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.00 ng

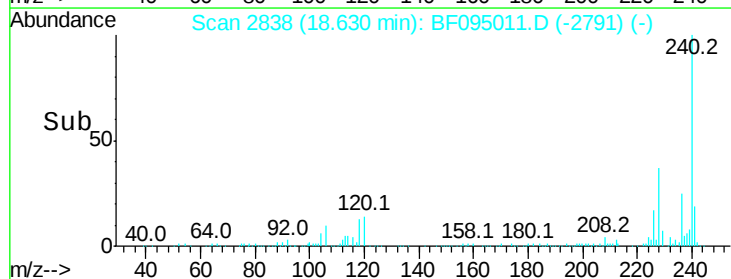
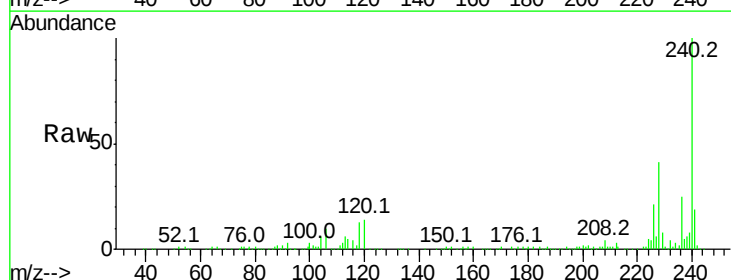
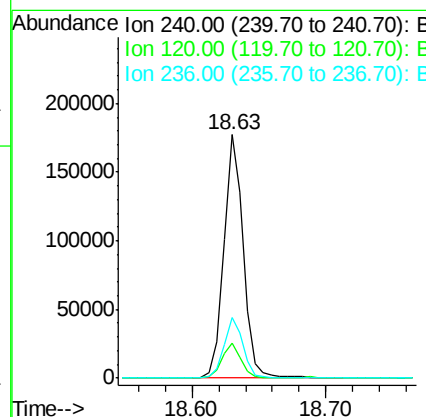
RT: 18.63 min Scan# 2838

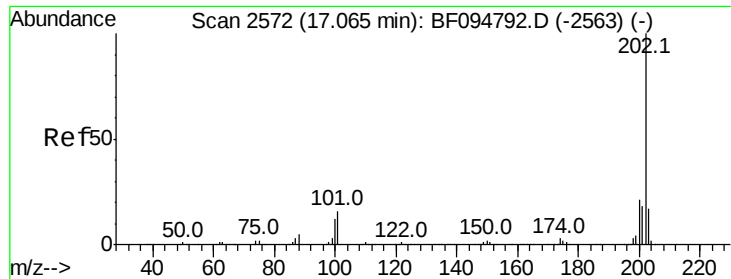
Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	182981		
120	14.2	5.8	8.8#	
236	24.9	20.5	30.7	





#77

Pvrene

Concen: 72.82 ng

RT: 17.05 min Scan# 2569

Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Instrument :

BNA_F

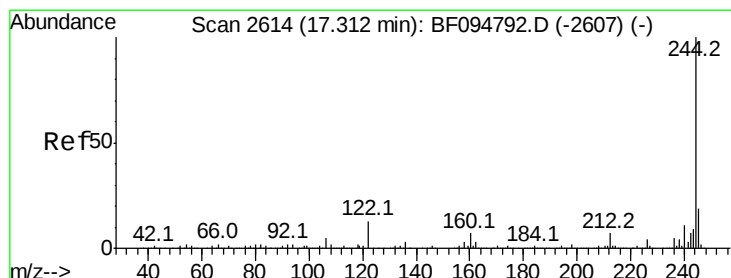
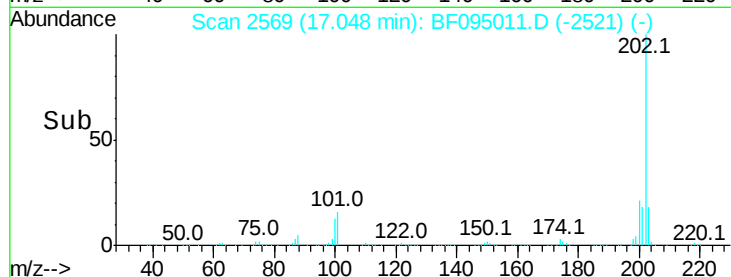
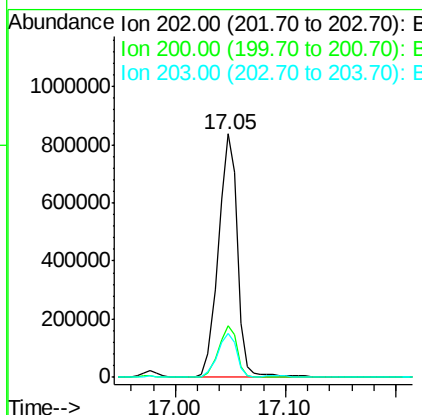
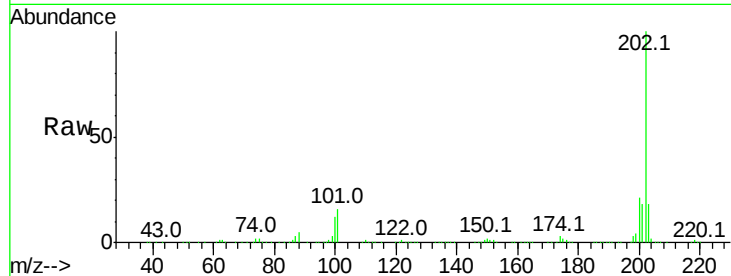
ClientSampleId :

WC-COMP-15

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.2	17.6	26.4	
203	18.1	14.4	21.6	

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#78

Terphenyl-d14

Concen: 0.50 ng

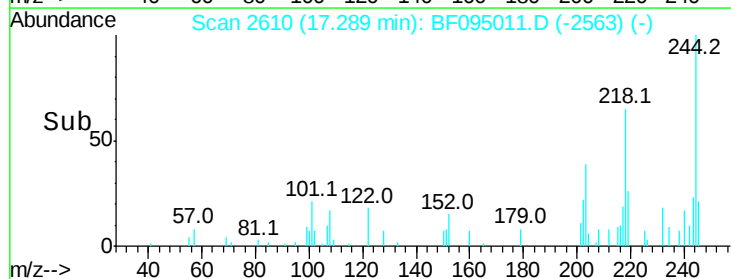
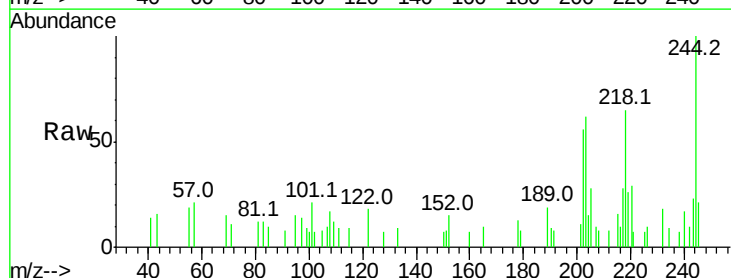
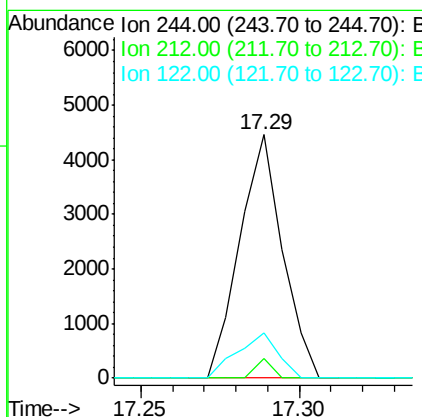
RT: 17.29 min Scan# 2610

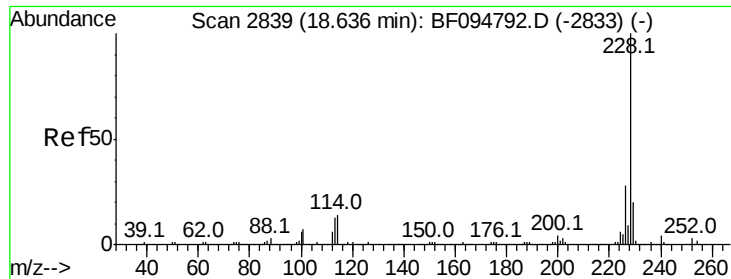
Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.8	6.0	9.0	
122	18.5	10.3	15.5	





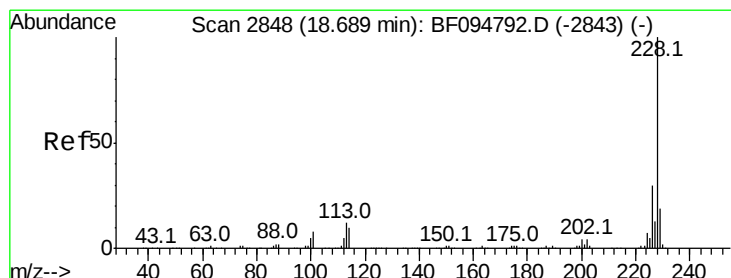
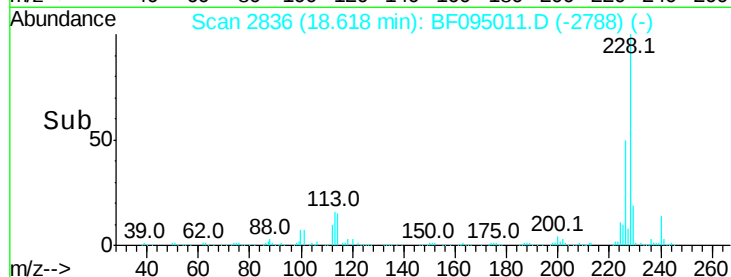
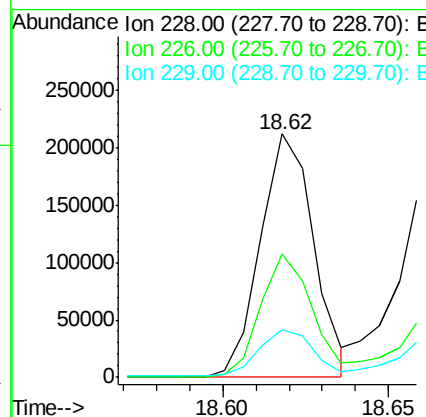
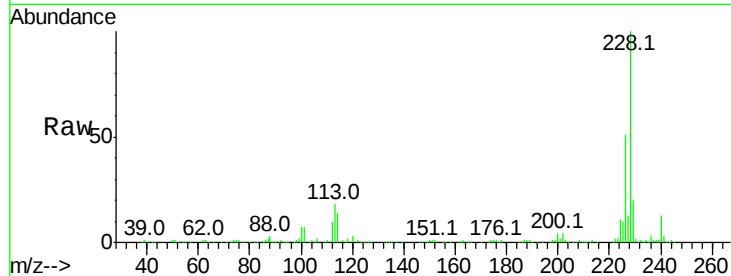
#80
Benzo(a)anthracene
Concen: 22.20 ng
RT: 18.62 min Scan# 2836
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
WC-COMP-15

Tot Ion	Ratio	Lower	Upper
228	100		
226	50.8	22.6	33.8#
229	19.9	16.3	24.5

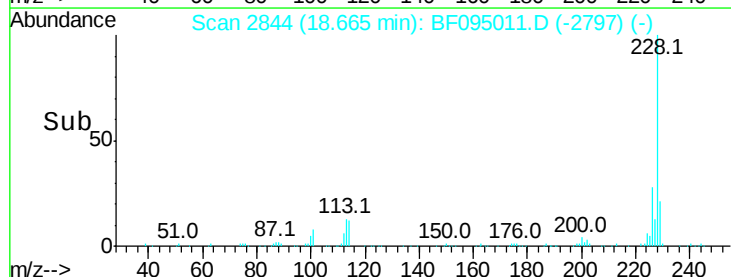
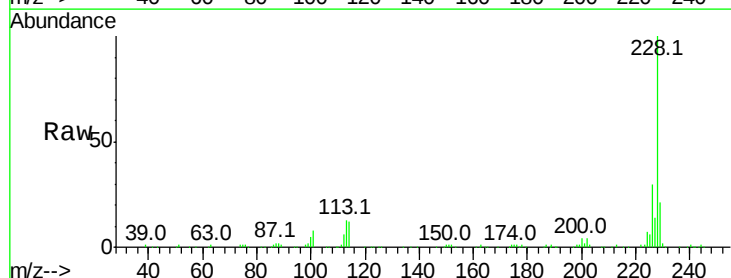
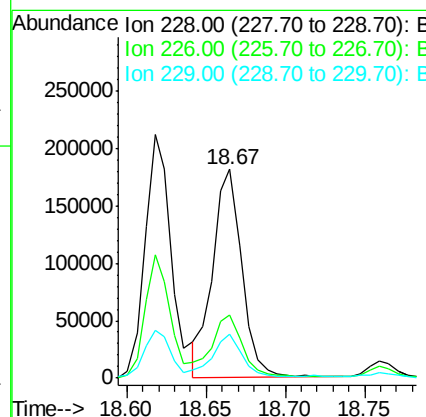
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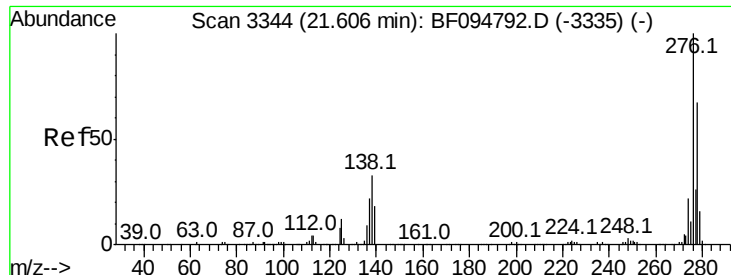
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#82
Chrysene
Concen: 22.65 ng
RT: 18.67 min Scan# 2844
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.9	37.3
229	21.2	15.8	23.6





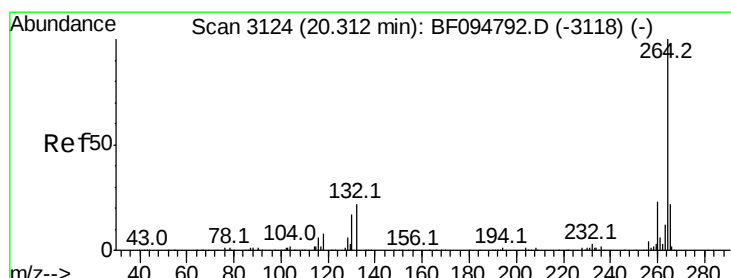
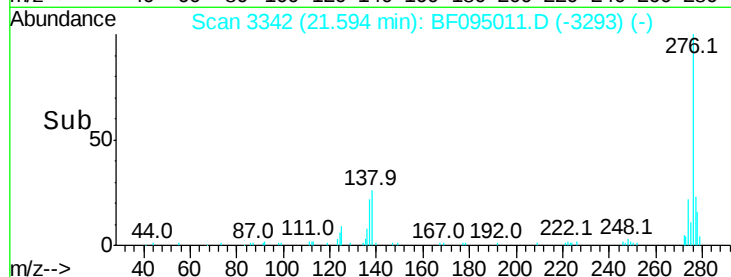
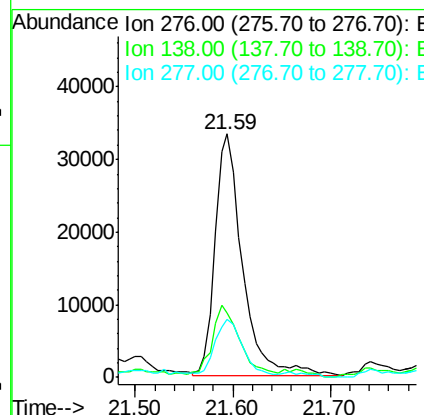
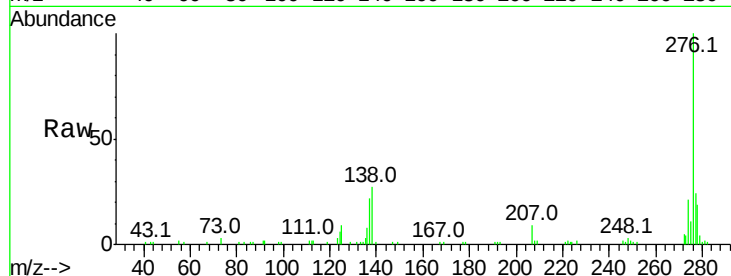
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.71 ng
RT: 21.59 min Scan# 3342
Delta R.T. -0.01 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
WC-COMP-15

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.9	27.8	41.6
277	25.8	20.2	30.4

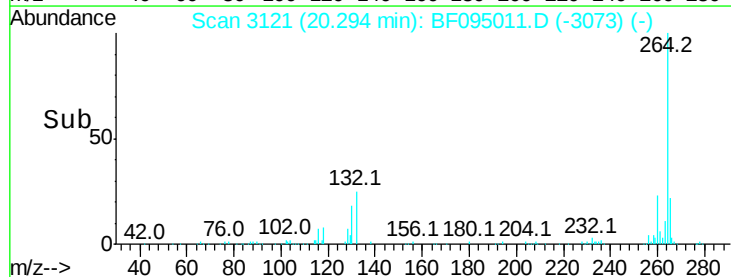
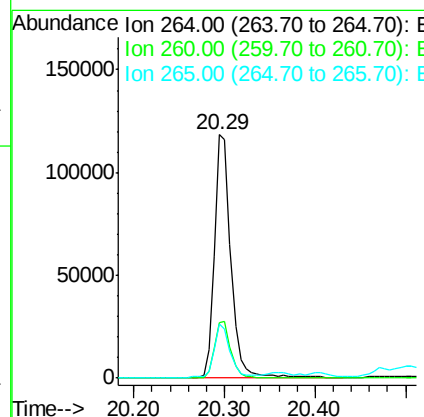
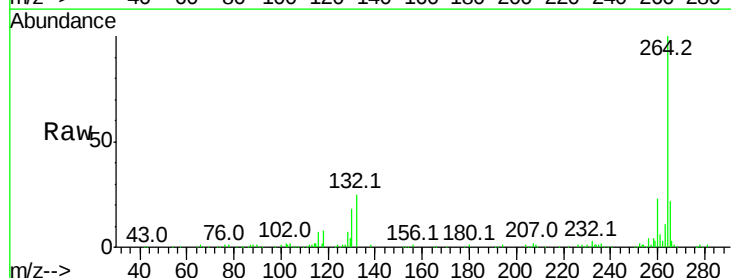
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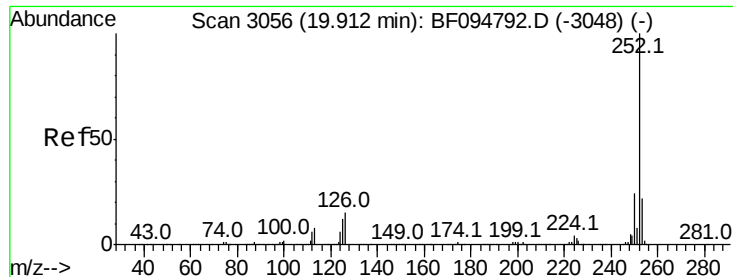
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 20.29 min Scan# 3121
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.5	29.3
265	22.1	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 15.91 ng m

RT: 19.89 min Scan# 3053

Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Instrument :

BNA_F

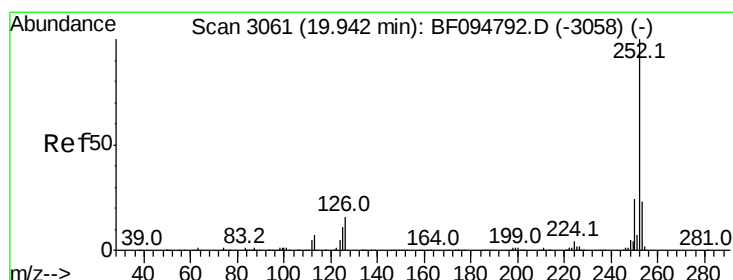
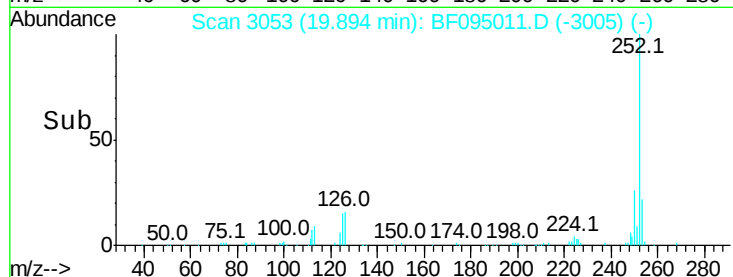
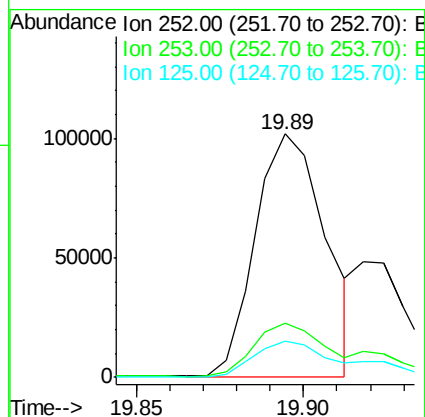
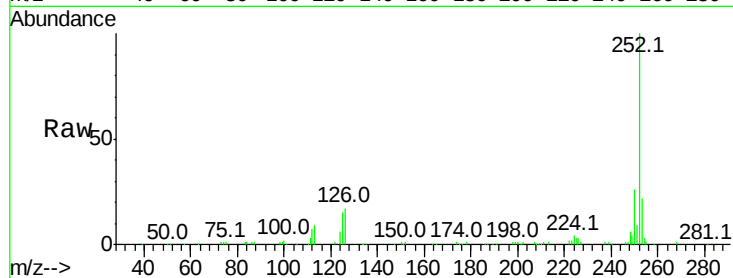
ClientSampleId :

WC-COMP-15

Tot Ion:	252	Resp:	148840
Ion Ratio	Lower	Upper	
252	100		
253	22.2	18.1	27.1
125	14.9	9.8	14.8#

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#88

Benzo(k)fluoranthene

Concen: 6.09 ng m

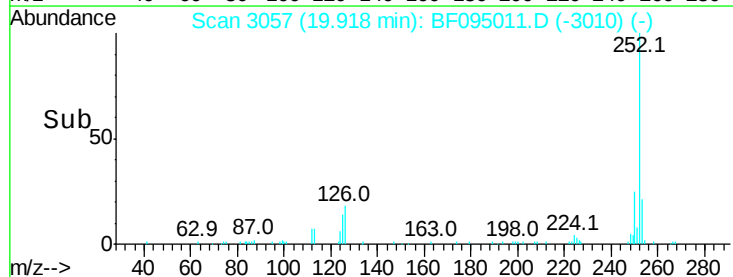
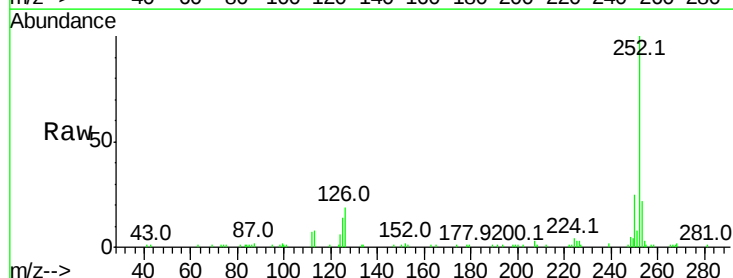
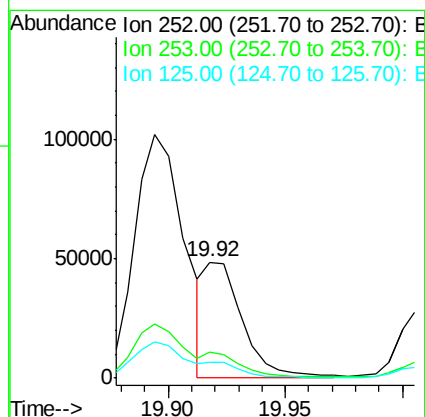
RT: 19.92 min Scan# 3057

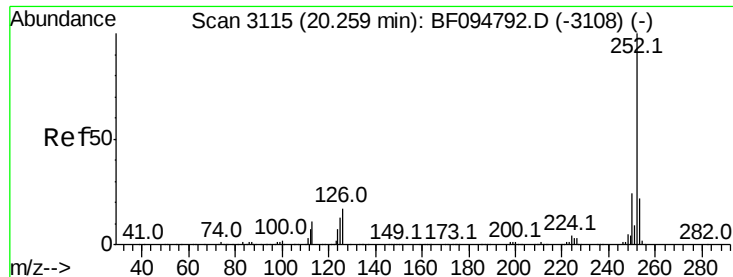
Delta R.T. -0.02 min

Lab File: BF095011.D

Acq: 9 May 2017 8:22

Tgt Ion:	252	Resp:	54935
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.4	27.6
125	13.9	13.1	19.7





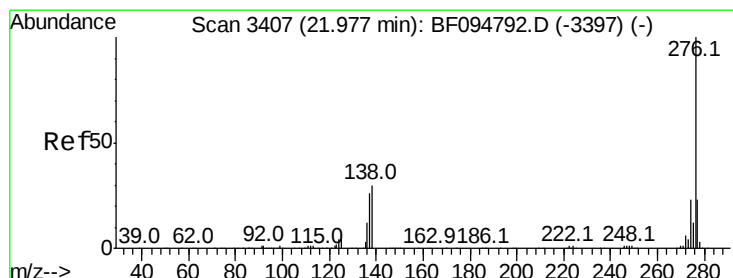
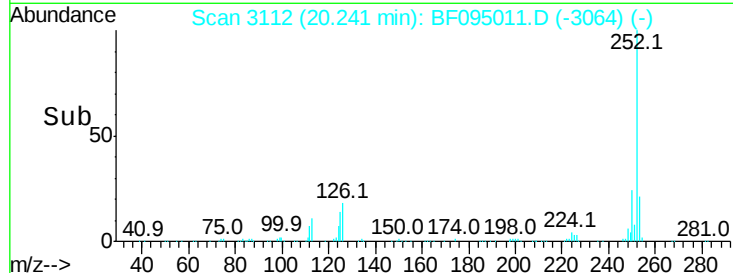
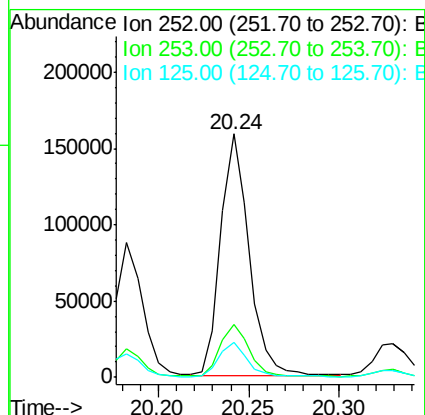
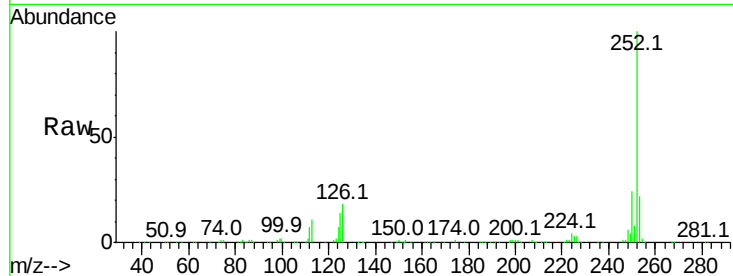
#89
Benzo(a)pyrene
Concen: 20.32 ng
RT: 20.24 min Scan# 3112
Delta R.T. -0.02 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Instrument :
BNA_F
ClientSampleId :
WC-COMP-15

Tot Ion:	252	Resp:	175420
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.5	26.3
125	14.2	11.0	16.4

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#91
Benzo(g,h,i)perylene
Concen: 9.47 ng
RT: 21.96 min Scan# 3405
Delta R.T. -0.01 min
Lab File: BF095011.D
Acq: 9 May 2017 8:22

Tgt Ion:	276	Resp:	66270
Ion Ratio	Lower	Upper	
276	100		
277	23.3	18.6	28.0
138	34.0	25.4	38.0

