

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050417\
 Data File : BF094893.D
 Acq On : 5 May 2017 1:27
 Operator : SJ/MA
 Sample : I2953-03 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMP

Manual Integrations
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Quant Time: May 05 05:39:18 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	7.72	152	88354	20.00	ng	-0.01
21) Naphthalene-d8	9.74	136	372487	20.00	ng	-0.02
38) Acenaphthene-d10	12.57	164	167475	20.00	ng	-0.02
63) Phenanthrene-d10	14.98	188	275603	20.00	ng	0.00
75) Chrysene-d12	18.65	240	183517	20.00	ng	0.00
86) Perylene-d12	20.31	264	182525	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.67	112	122253	23.07	ng	-0.01
7) Phenol-d6	7.26	99	154333	24.27	ng	-0.02
23) Nitrobenzene-d5	8.61	82	89539	15.16	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	29111	21.22	ng	-0.02
44) 2-Fluorobiphenyl	11.51	172	173073	14.87	ng	-0.02
78) Terphenyl-d14	17.29	244	114432	13.73	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	9.77	128	779886	41.66	ng	99
37) 2-Methylnaphthalene	10.90	142	181865	14.80	ng	97
45) 1,1'-Biphenyl	11.67	154	57281	4.06	ng	97
48) Acenaphthylene	12.34	152	56795	3.18	ng	97
51) Acenaphthene	12.62	154	328984	30.89	ng	99
54) Dibenzofuran	12.91	168	407090	27.62	ng	98
57) Fluorene	13.47	166	406154	31.69	ng	98
70) Phenanthrene	15.04	178	3568319	225.34	ng	100
71) Anthracene	15.11	178	1163557	71.93	ng	98
72) Carbazole	15.38	167	408177	27.73	ng	97
74) Fluoranthene	16.78	202	3187892	196.25	ng	99
77) Pyrene	17.08	202	2707235	197.25	ng	100
80) Benzo(a)anthracene	18.64	228	1393722	130.49	ng	99
82) Chrysene	18.69	228	1219350	118.07	ng	96
85) Indeno(1,2,3-cd)pyrene	21.61	276	473711	56.48	ng	93
87) Benzo(b)fluoranthene	19.92	252	1287762m	114.18	ng	
88) Benzo(k)fluoranthene	19.94	252	461896m	42.46	ng	
89) Benzo(a)pyrene	20.27	252	936958	90.03	ng	97
90) Dibenzo(a,h)anthracene	21.61	278	127259m	14.81	ng	
91) Benzo(g,h,i)perylene	21.98	276	437604	51.88	ng	97

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

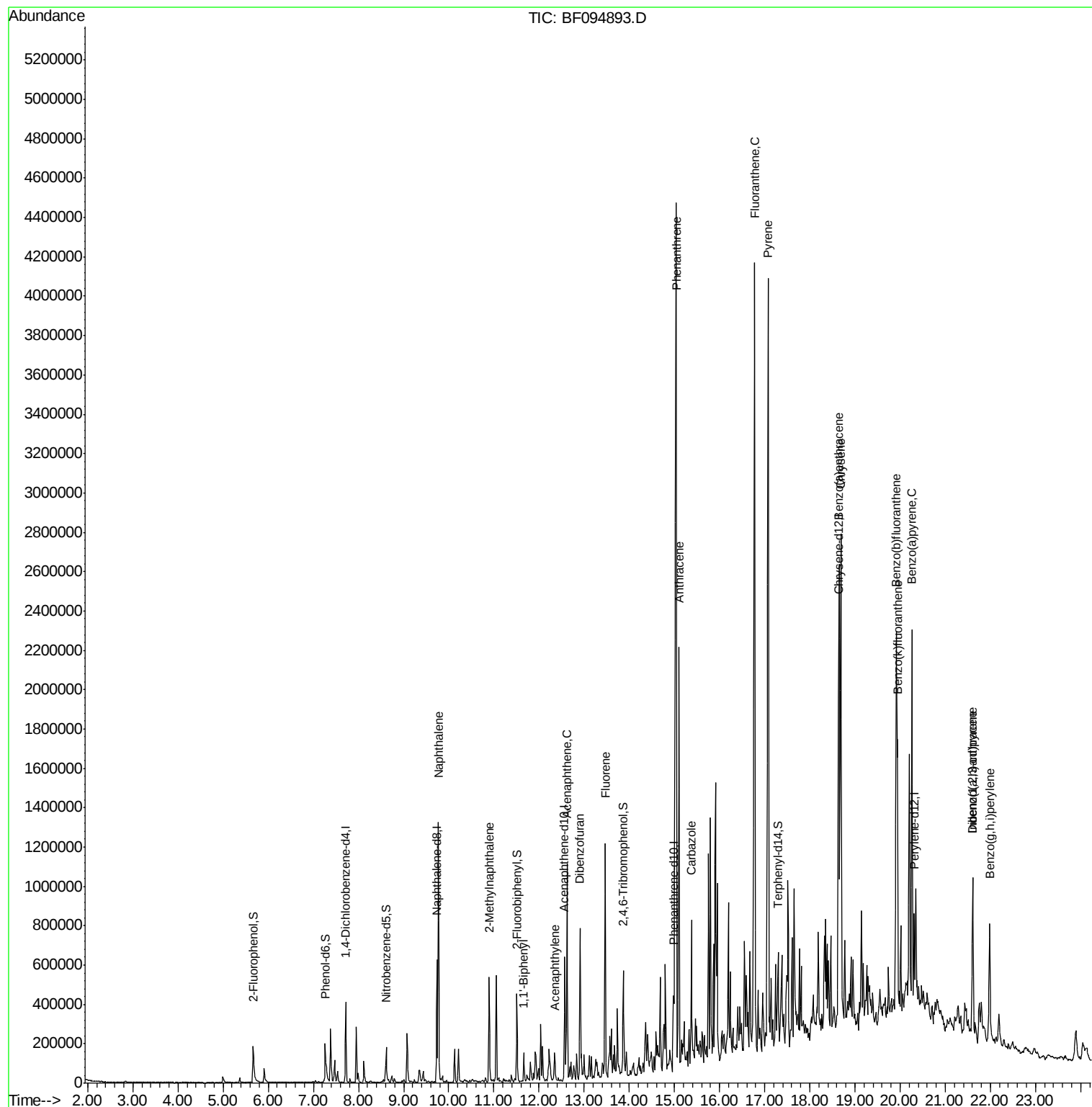
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050417\
Data File : BF094893.D
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ALS Vial : 21 Sample Multiplier: 1

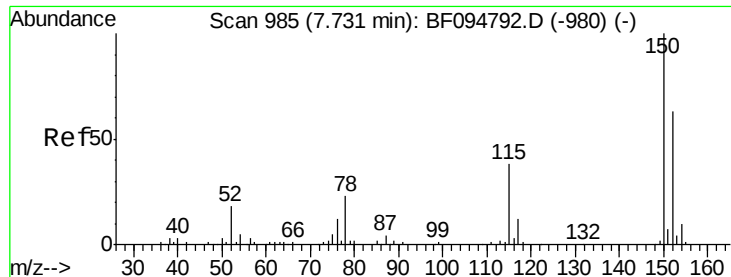
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 03 17:24:51 2017
Response via : Initial Calibration





#1

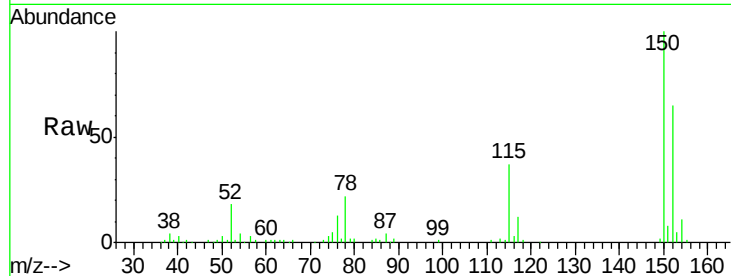
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 983
Delta R.T. -0.01 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.1	126.2	189.2
115	57.0	52.2	78.2

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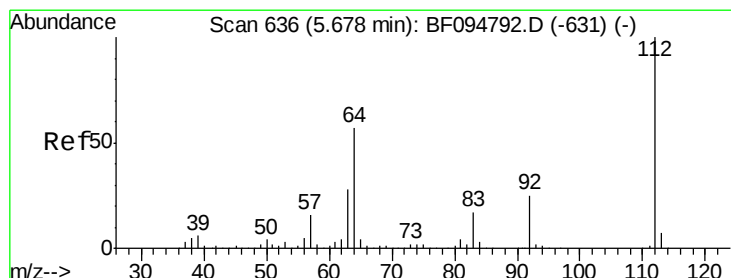
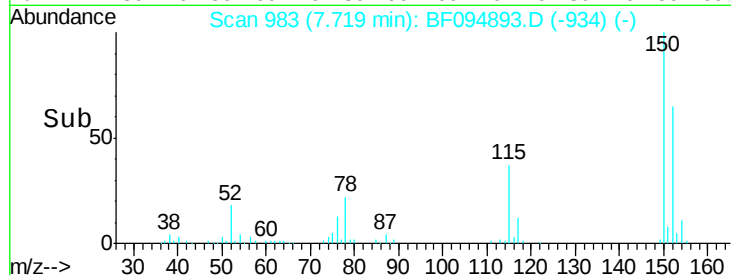
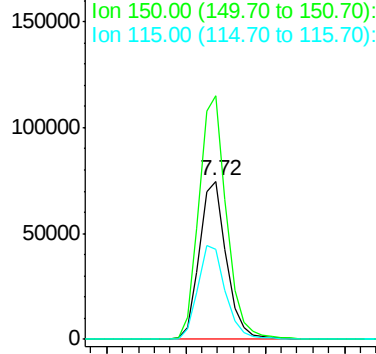


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

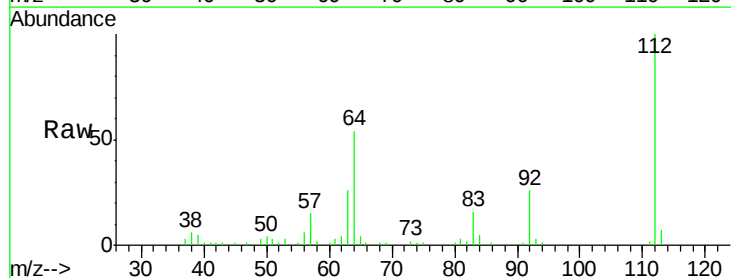
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 23.07 ng
RT: 5.67 min Scan# 634
Delta R.T. -0.01 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	46.0	69.0
63	26.1	23.4	35.0

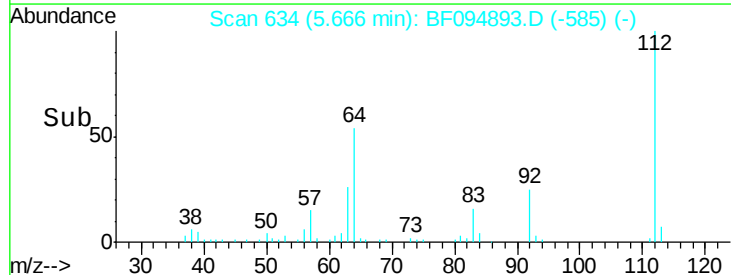
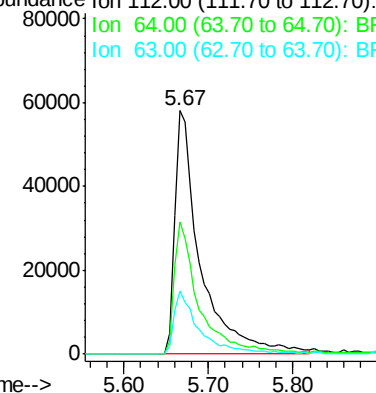


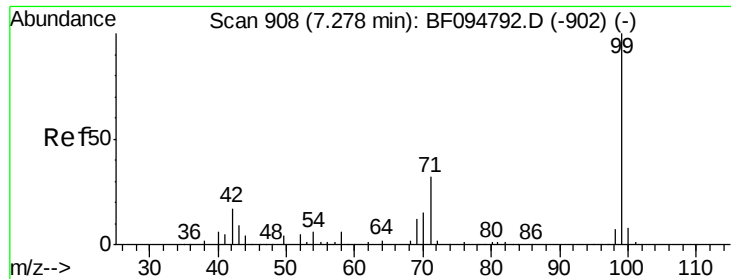
Abundance

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: 24.27 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF094893.D

Acq: 5 May 2017 1:27

Instrument :

BNA_F

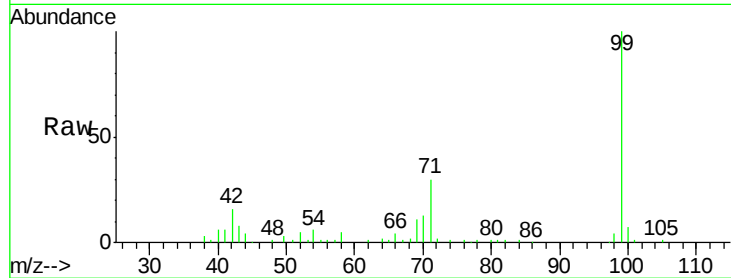
ClientSampled :

TP7-8-COMP

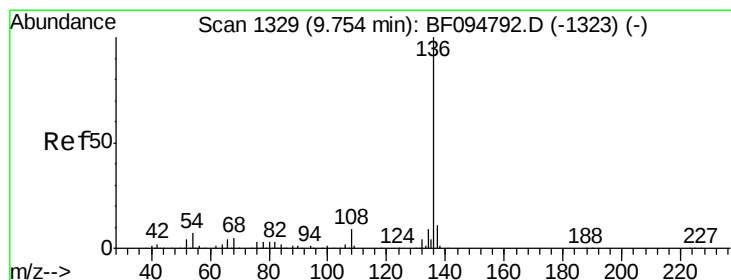
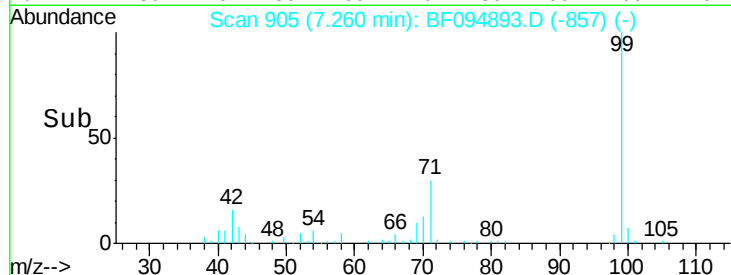
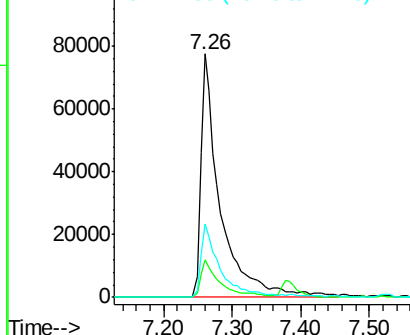
Tgt Ion:	99	Resp:	154333
Ion Ratio	Lower	Upper	
99	100		
42	15.7	13.5	20.3
71	29.9	24.5	36.7

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.74 min Scan# 1326

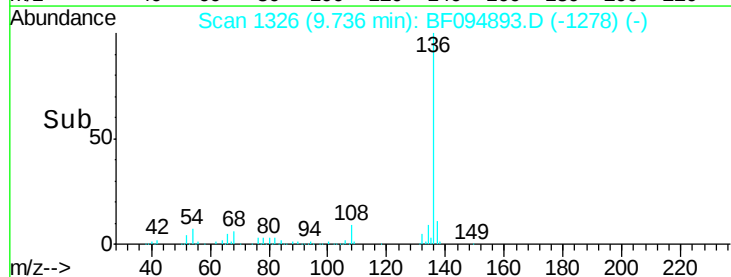
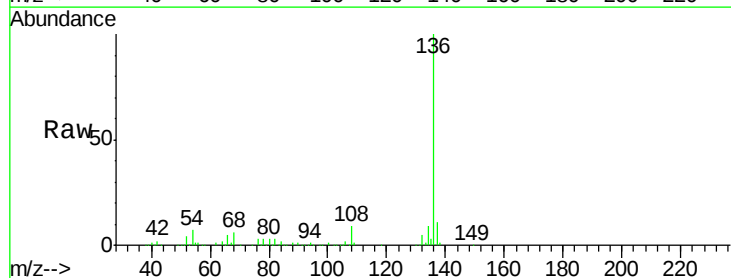
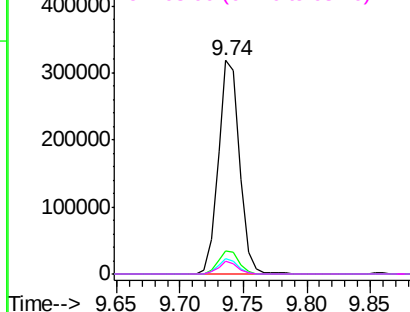
Delta R.T. -0.02 min

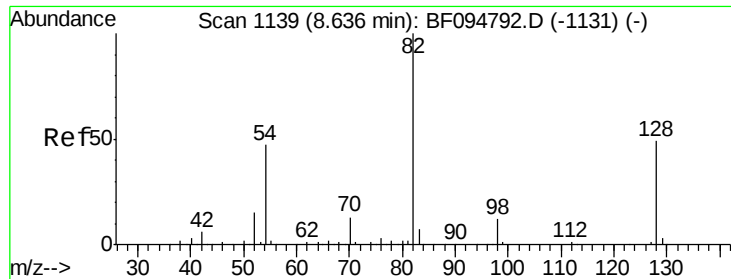
Lab File: BF094893.D

Acq: 5 May 2017 1:27

Tgt Ion:	136	Resp:	372487
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.5	12.7
54	7.4	4.9	7.3#
68	5.8	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





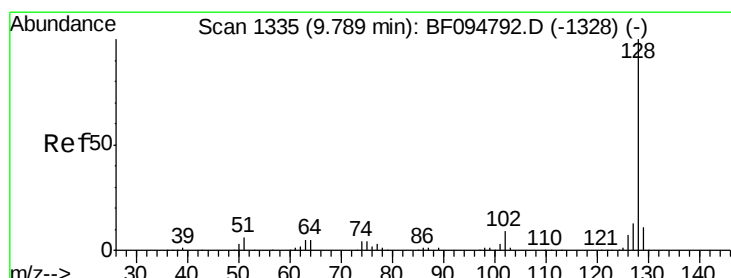
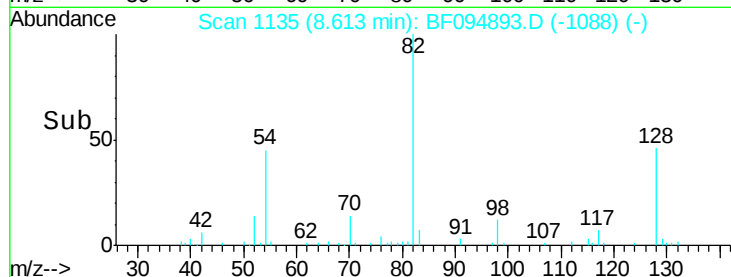
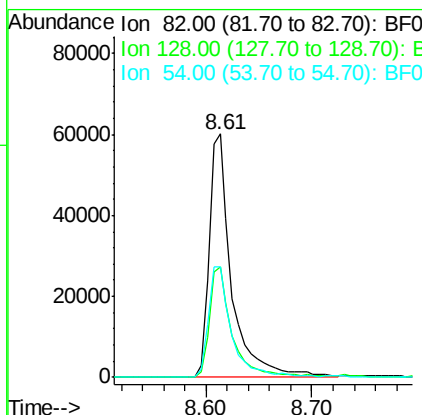
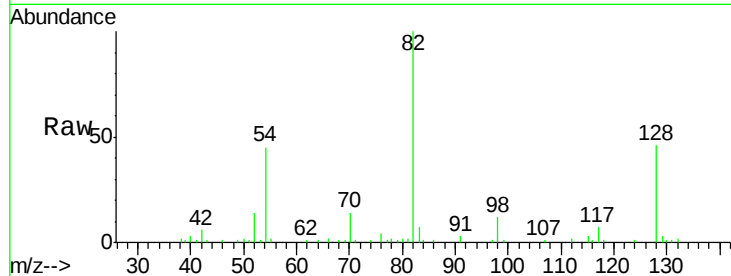
#23
 Nitrobenzene-d5
 Concen: 15.16 ng
 RT: 8.61 min Scan# 1135
 Delta R.T. -0.02 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMP

Tgt Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.0	51.0
54	45.4	42.2	63.2

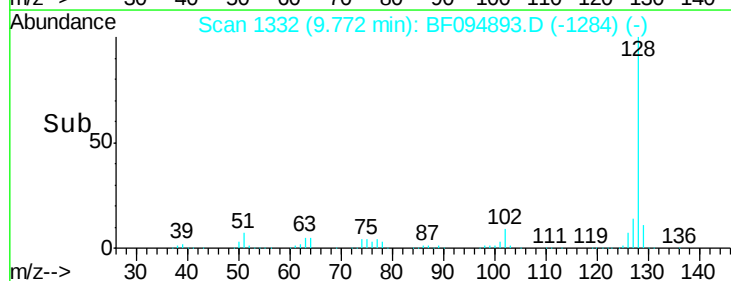
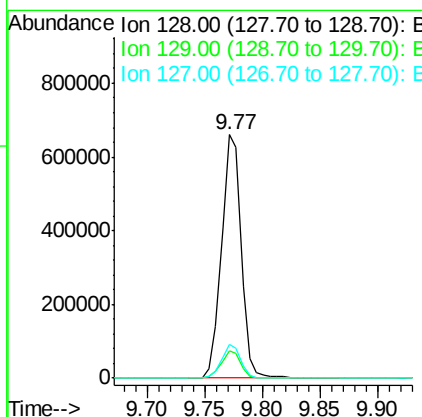
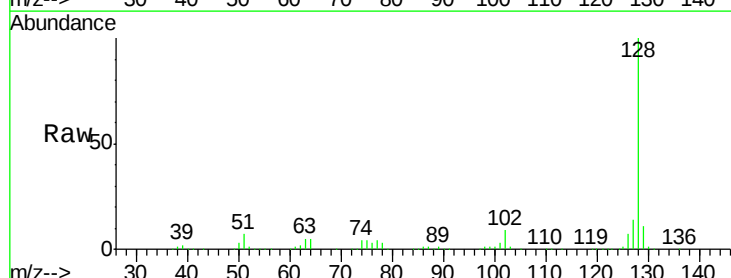
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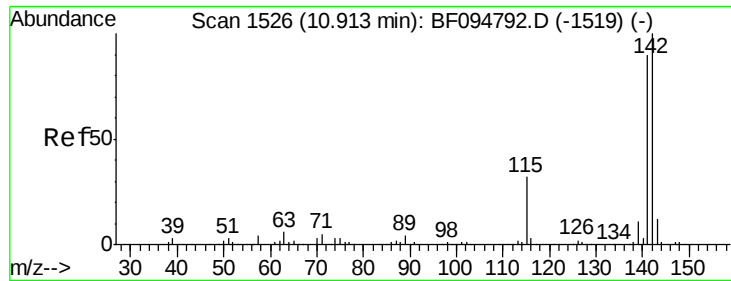
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#31
 Naphthalene
 Concen: 41.66 ng
 RT: 9.77 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	14.0	10.8	16.2





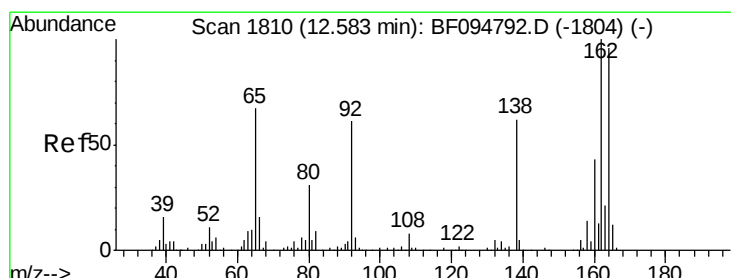
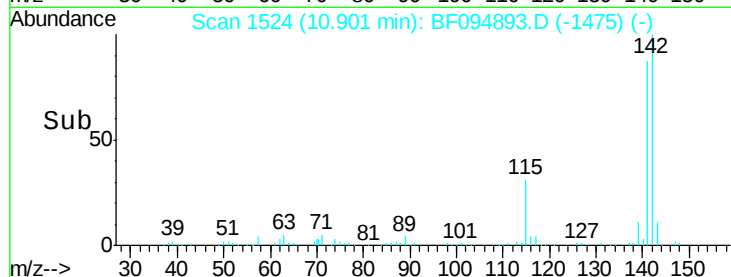
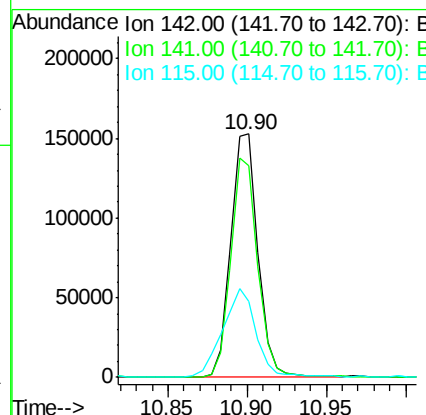
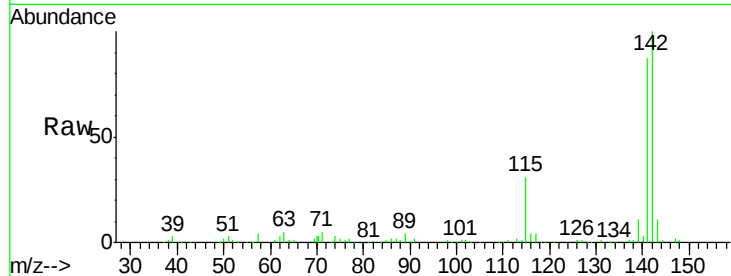
#37
2-Methylnaphthalene
Concen: 14.80 ng
RT: 10.90 min Scan# 1524
Delta R.T. -0.01 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	181865		
141	87.1	71.3	106.9	
115	31.2	27.1	40.7	

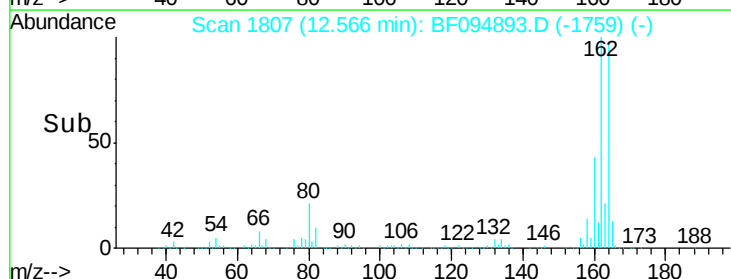
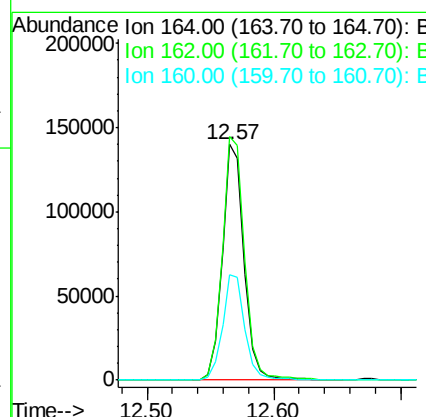
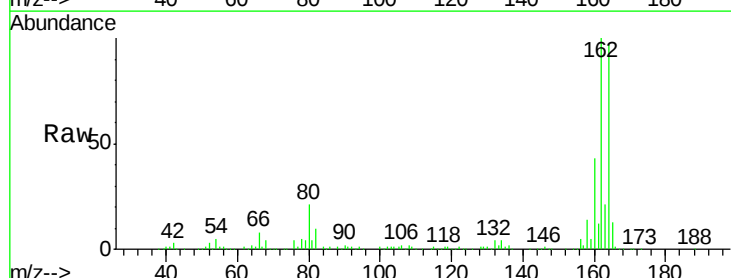
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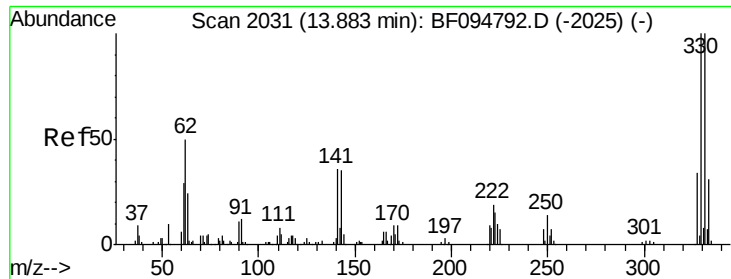
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.57 min Scan# 1807
Delta R.T. -0.02 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	167475		
162	103.3	82.6	123.8	
160	44.9	36.2	54.2	





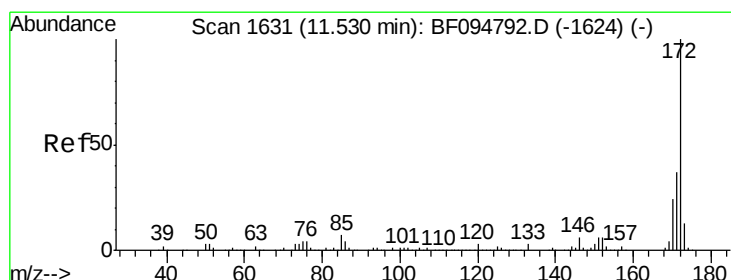
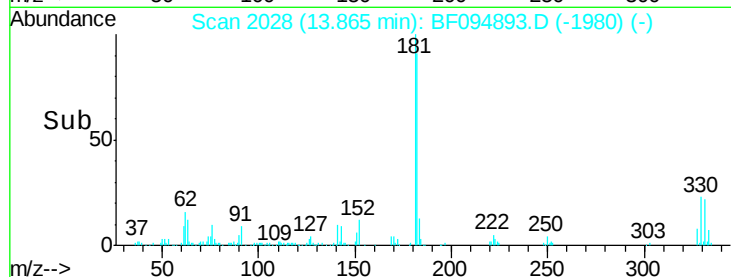
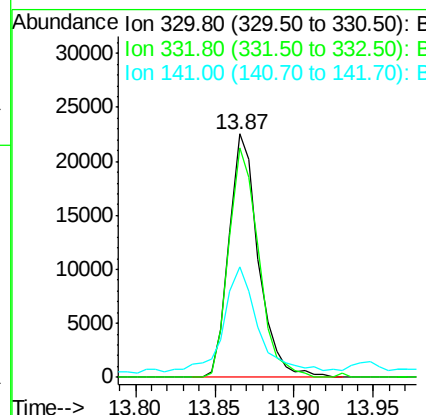
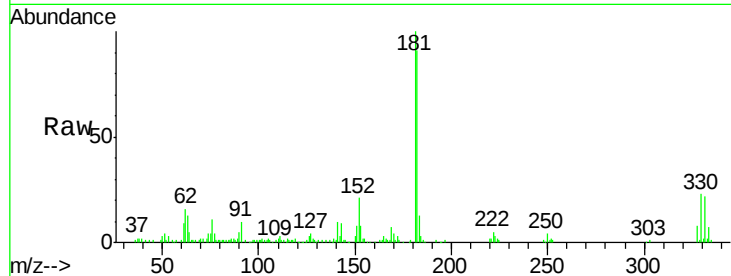
#41
 2,4,6-Tribromophenol
 Concen: 21.22 ng
 RT: 13.87 min Scan# 2028
 Delta R.T. -0.02 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	29111		
332	95.5	76.6	115.0	
141	47.8	31.4	47.2	

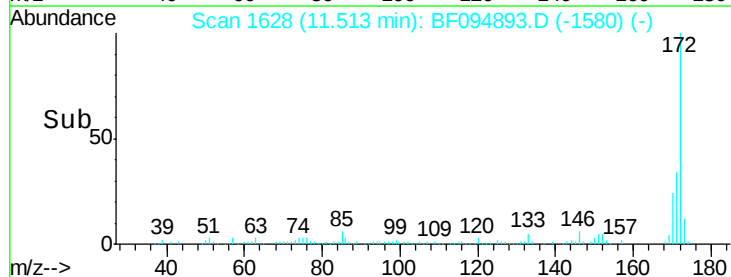
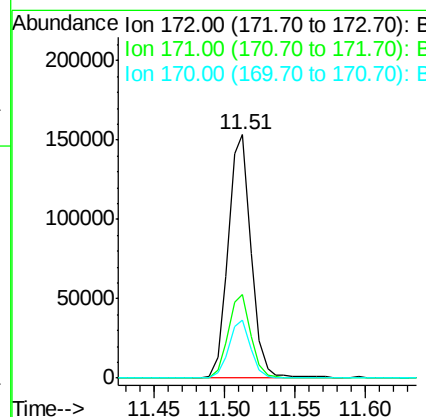
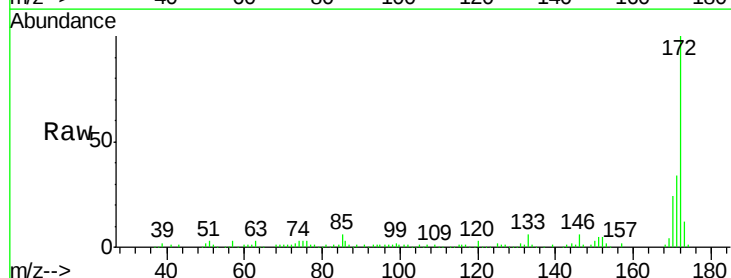
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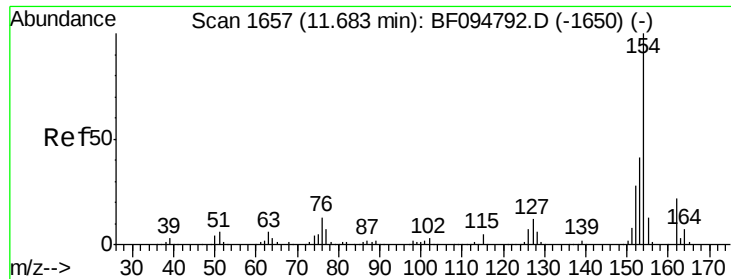
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#44
 2-Fluorobiphenyl
 Concen: 14.87 ng
 RT: 11.51 min Scan# 1628
 Delta R.T. -0.02 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	173073		
171	34.5	29.6	44.4	
170	23.6	19.8	29.8	





#45

1,1'-Biphenyl

Concen: 4.06 ng

RT: 11.67 min Scan# 1654

Delta R.T. -0.02 min

Lab File: BF094893.D

Acq: 5 May 2017 1:27

Instrument :

BNA_F

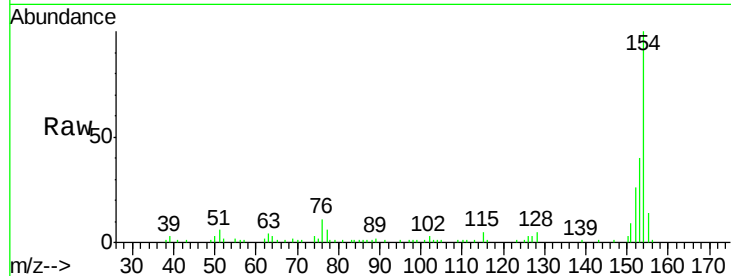
ClientSampleId :

TP7-8-COMP

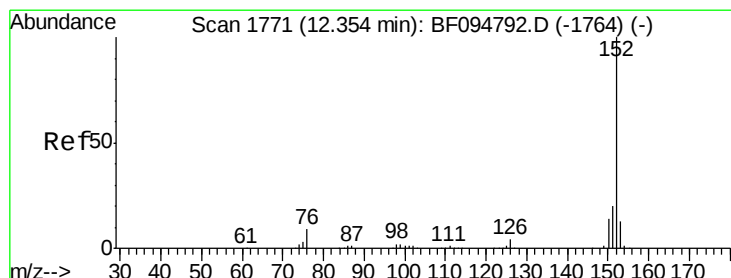
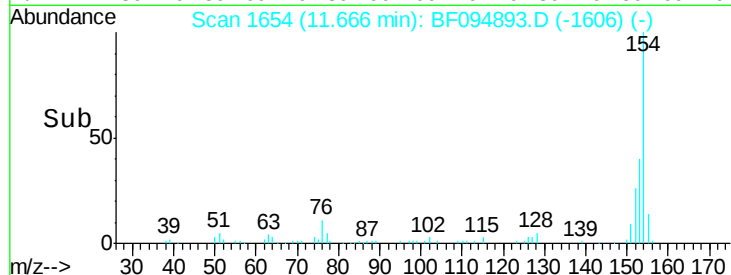
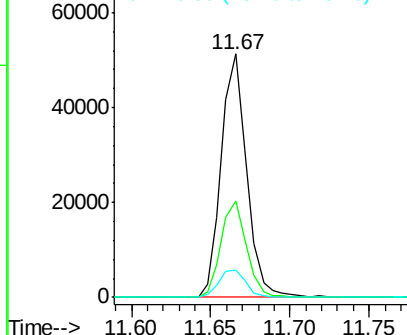
Tgt Ion:	154	Resp:	57281
Ion Ratio	Lower	Upper	
154	100		
153	39.8	21.2	61.2
76	11.4	0.0	29.9

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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: 3.18 ng

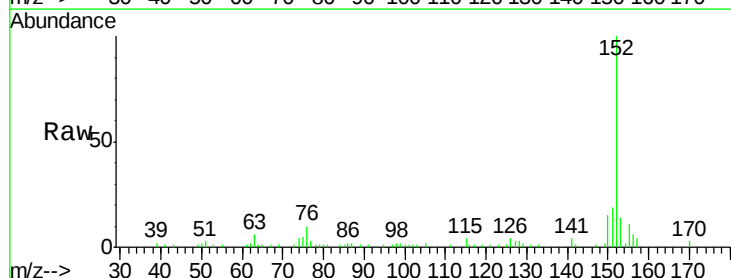
RT: 12.34 min Scan# 1768

Delta R.T. -0.02 min

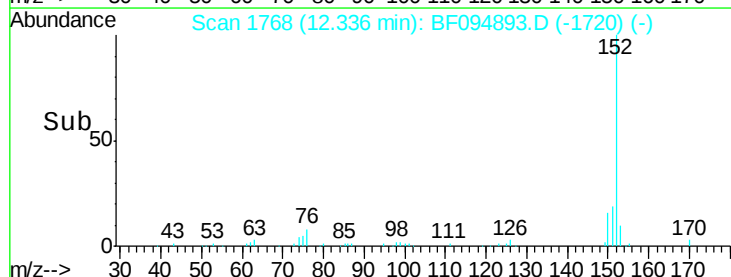
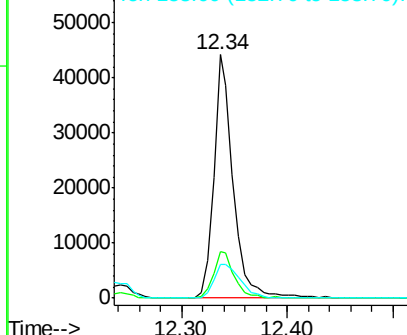
Lab File: BF094893.D

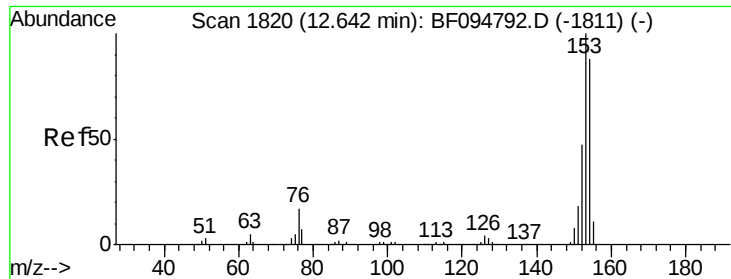
Acq: 5 May 2017 1:27

Tgt Ion:	152	Resp:	56795
Ion Ratio	Lower	Upper	
152	100		
151	19.1	16.8	25.2
153	14.0	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: 30.89 ng

RT: 12.62 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF094893.D

Acq: 5 May 2017 1:27

Instrument :

BNA_F

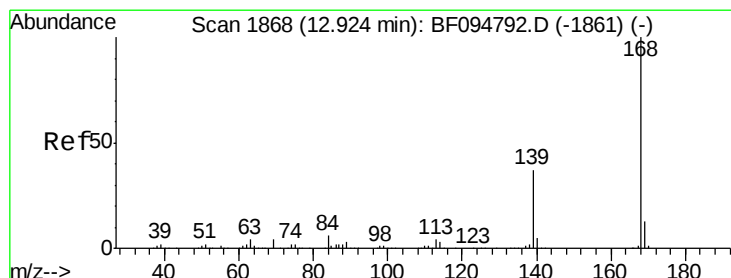
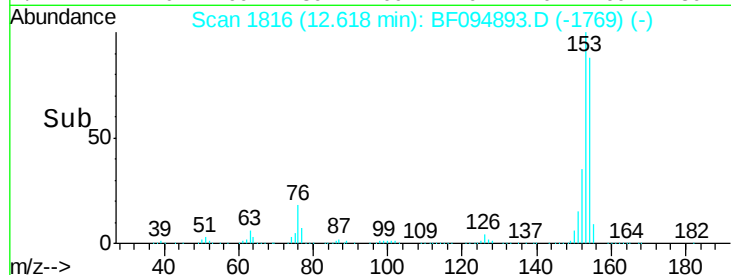
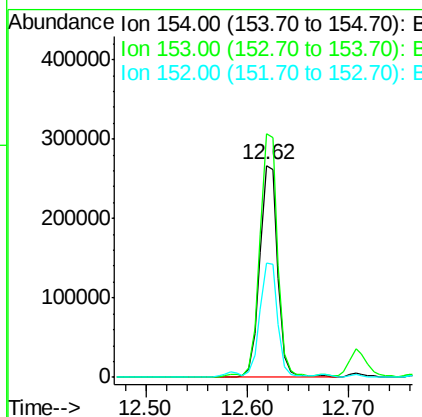
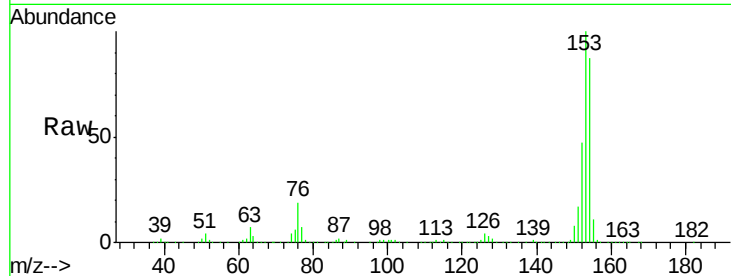
ClientSampleId :

TP7-8-COMP

Tgt Ion:	154	Resp:	328984
Ion Ratio	Lower	Upper	
154	100		
153	114.8	90.5	135.7
152	53.7	43.6	65.4

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#54

Dibenzofuran

Concen: 27.62 ng

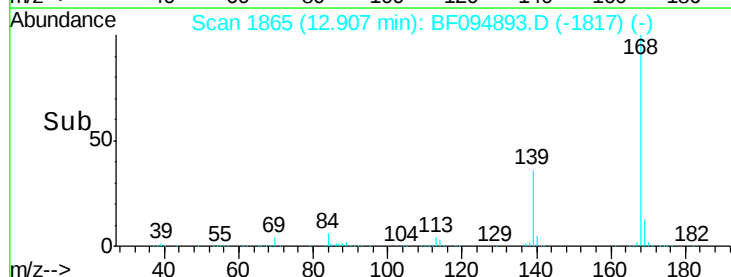
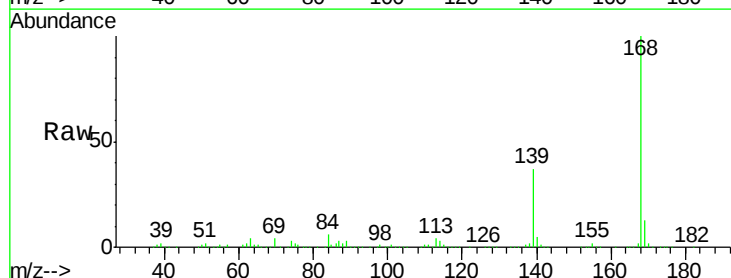
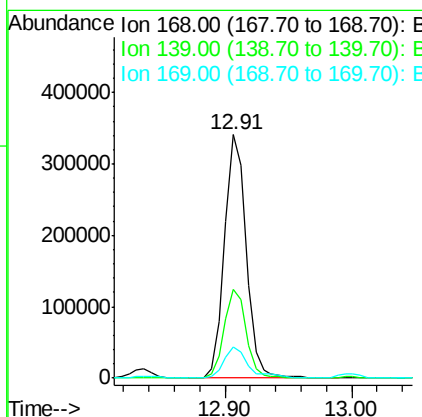
RT: 12.91 min Scan# 1865

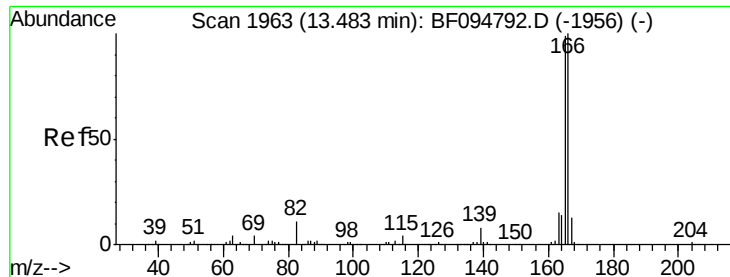
Delta R.T. -0.02 min

Lab File: BF094893.D

Acq: 5 May 2017 1:27

Tgt Ion:	168	Resp:	407090
Ion Ratio	Lower	Upper	
168	100		
139	36.6	30.6	45.8
169	13.0	10.8	16.2





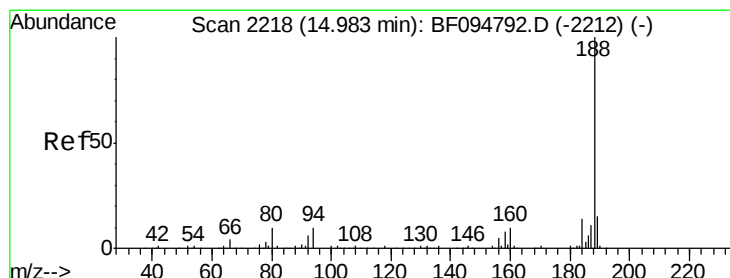
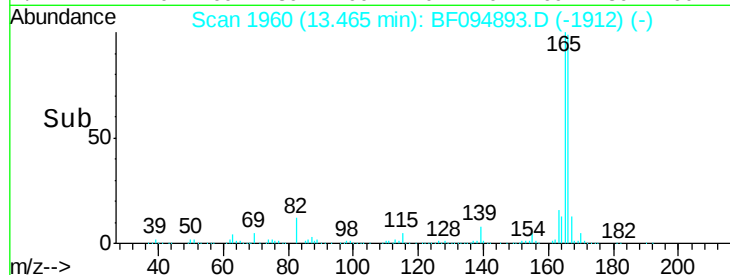
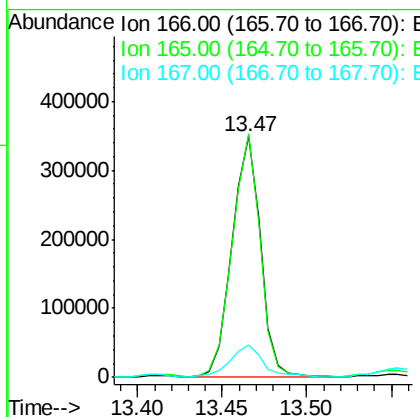
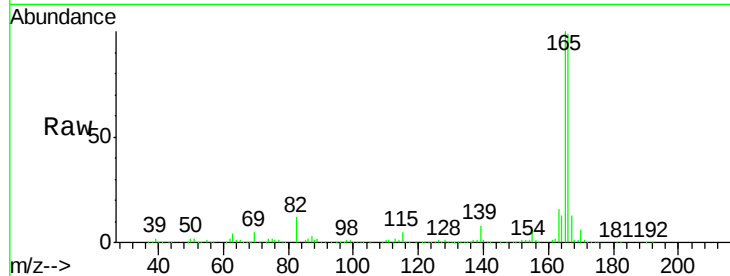
#57
Fluorene
 Concen: 31.69 ng
 RT: 13.47 min Scan# 1960
 Delta R.T. -0.02 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	406154		
165	101.1	78.8	118.2	
167	13.3	10.6	16.0	

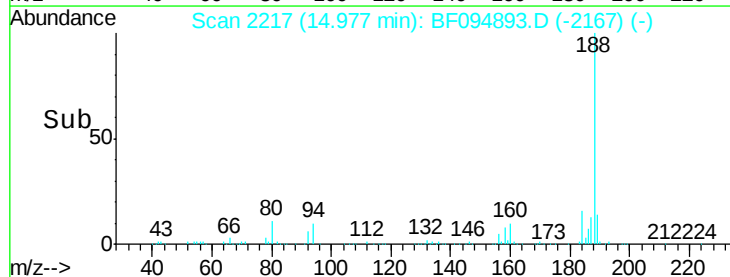
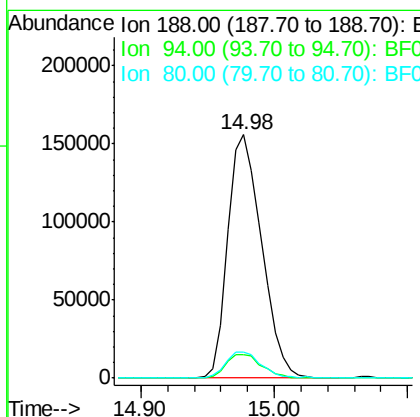
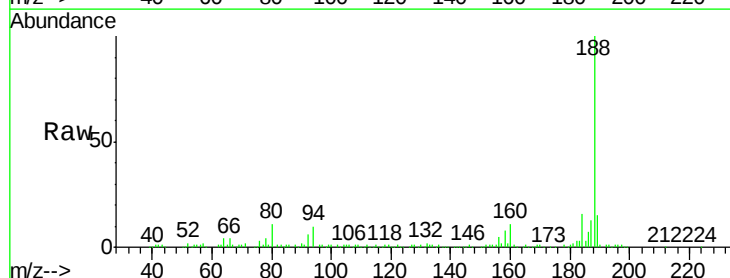
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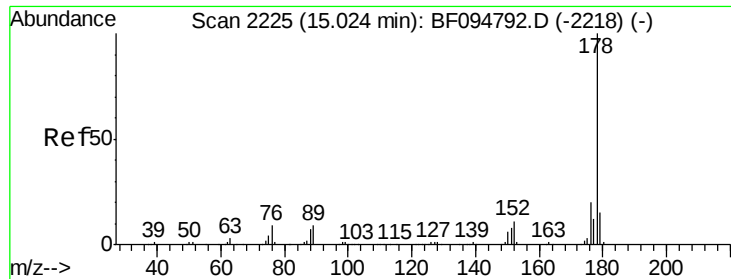
mohammad
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#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.98 min Scan# 2217
 Delta R.T. -0.01 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	275603		
94	9.6	9.4	14.2	
80	10.8	10.2	15.2	





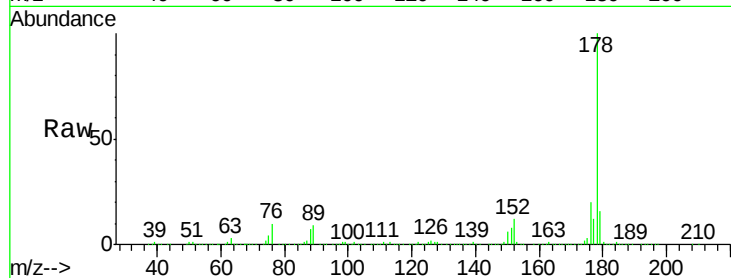
#70
Phenanthrene
Concen: 225.34 ng
RT: 15.04 min Scan# 2228
Delta R.T. 0.02 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

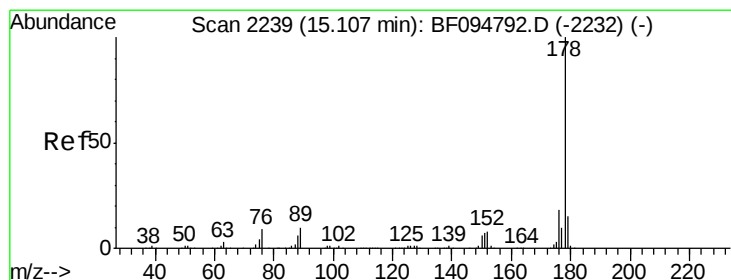
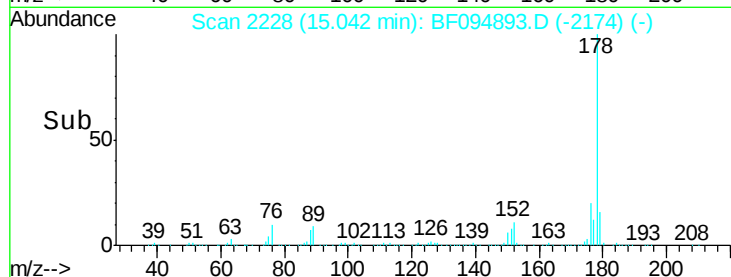
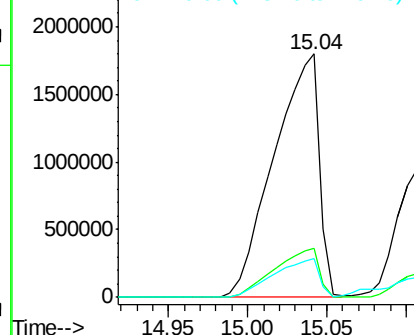
Tgt Ion:178 Resp: 3568319
Ion Ratio Lower Upper
178 100
176 20.2 16.2 24.4
179 15.8 12.6 19.0

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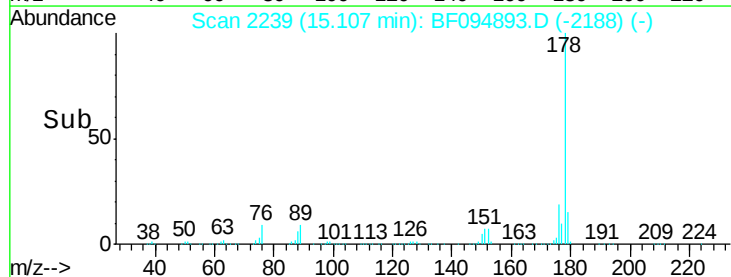
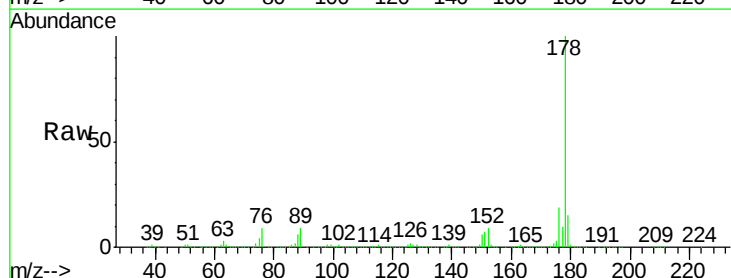
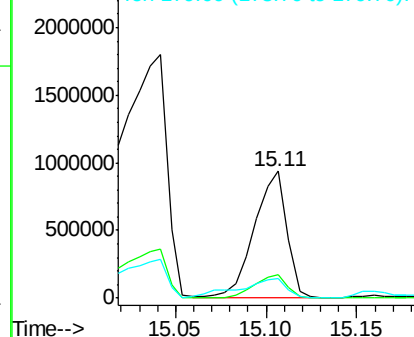
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

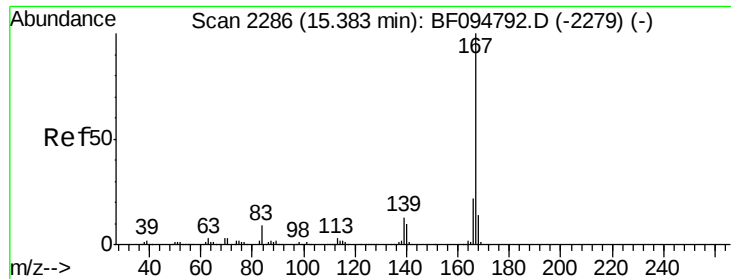


#71
Anthracene
Concen: 71.93 ng
RT: 15.11 min Scan# 2239
Delta R.T. 0.00 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion:178 Resp: 1163557
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.8
179 15.3 12.7 19.1

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 27.73 ng

RT: 15.38 min Scan# 2285

Delta R.T. -0.01 min

Lab File: BF094893.D

Acq: 5 May 2017 1:27

Instrument :

BNA_F

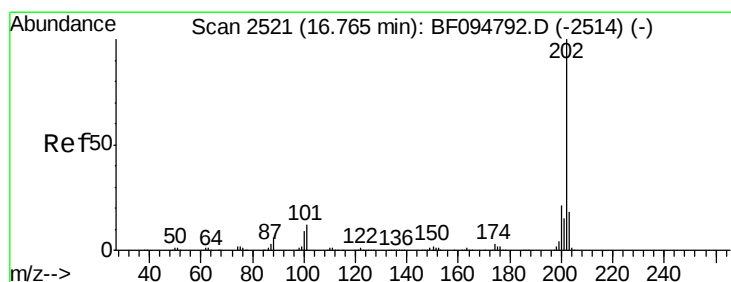
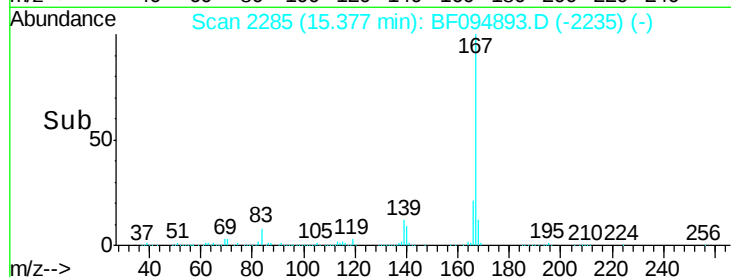
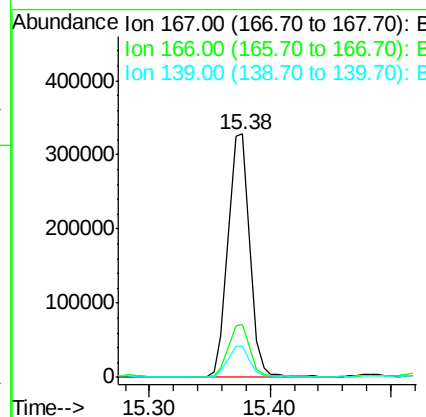
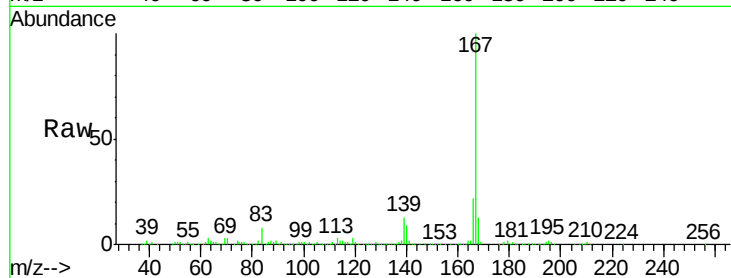
ClientSampleId :

TP7-8-COMP

Tgt Ion:	167	Resp:	408177
Ion Ratio	Lower	Upper	
167	100		
166	21.6	18.1	27.1
139	12.9	11.7	17.5

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#74

Fluoranthene

Concen: 196.25 ng

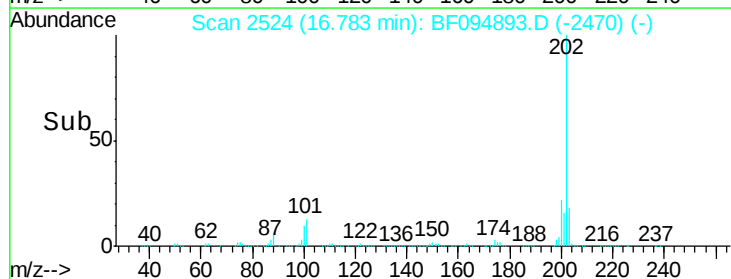
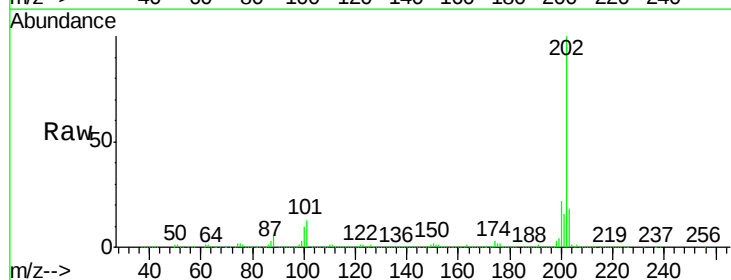
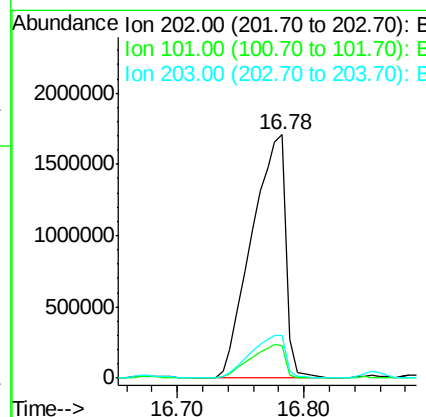
RT: 16.78 min Scan# 2524

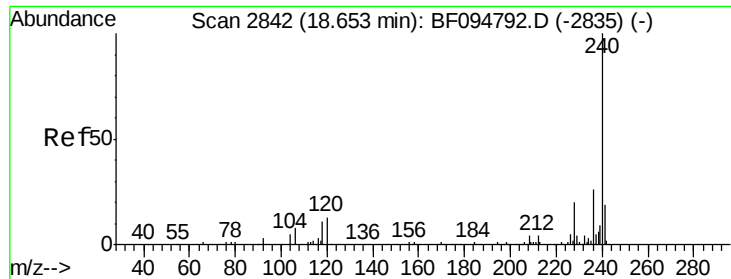
Delta R.T. 0.02 min

Lab File: BF094893.D

Acq: 5 May 2017 1:27

Tgt Ion:	202	Resp:	3187892
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	33.2
203	17.6	0.0	38.1





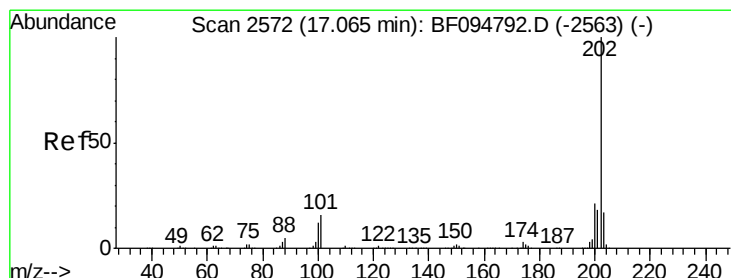
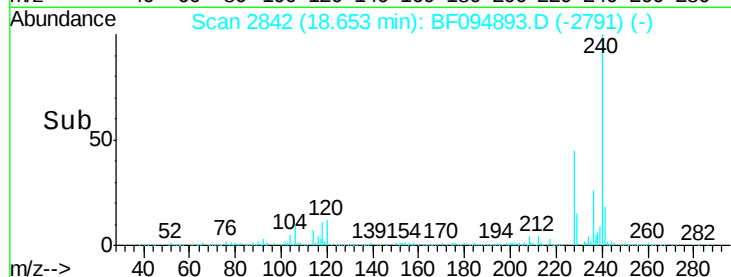
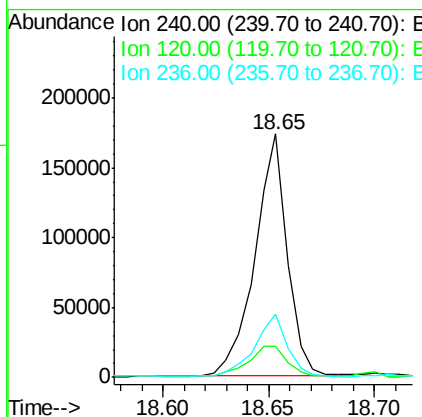
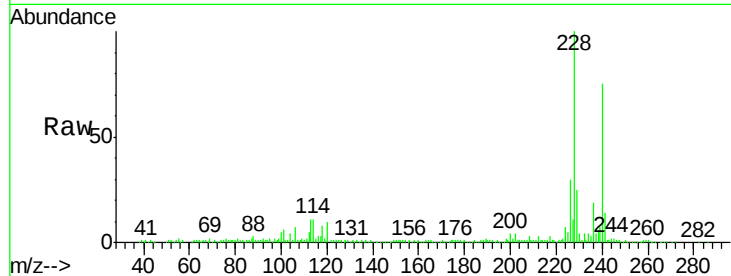
#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.65 min Scan# 2842
Delta R.T. 0.00 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

Tgt Ion:240 Resp: 183517
Ion Ratio Lower Upper
240 100
120 12.9 5.8 8.8#
236 25.9 20.5 30.7

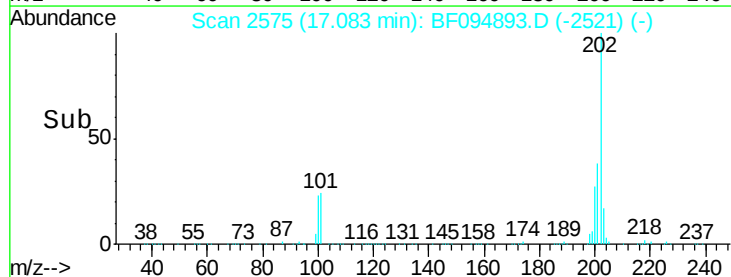
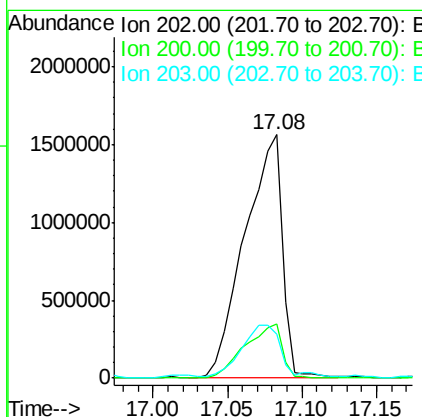
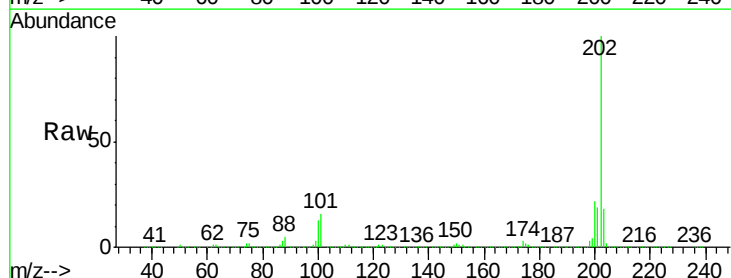
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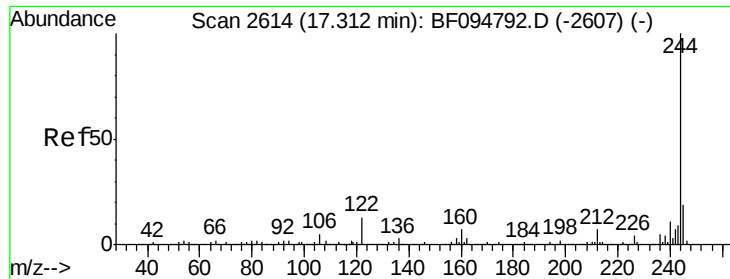
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#77
Pyrene
Concen: 197.25 ng
RT: 17.08 min Scan# 2575
Delta R.T. 0.02 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion:202 Resp: 2707235
Ion Ratio Lower Upper
202 100
200 22.2 17.6 26.4
203 18.0 14.4 21.6





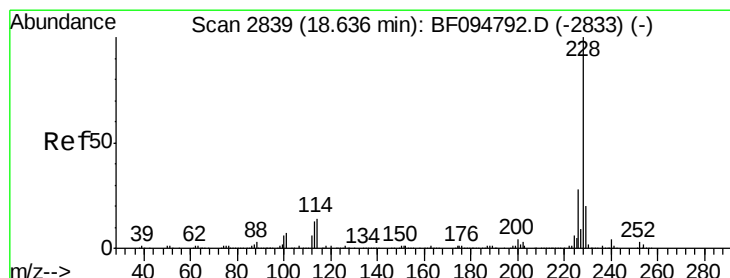
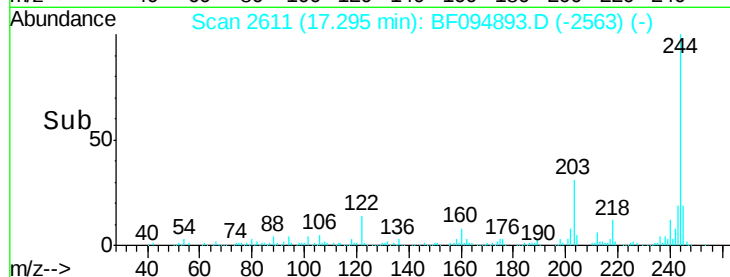
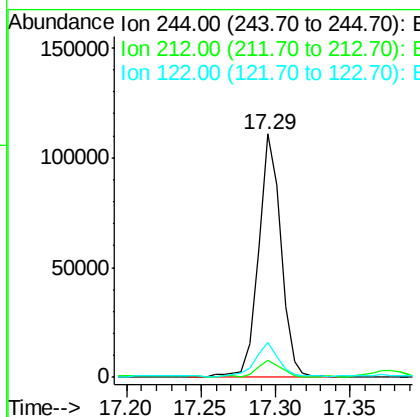
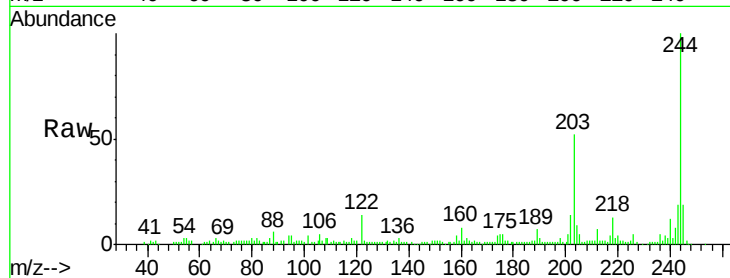
#78
 Terphenyl-d14
 Concen: 13.73 ng
 RT: 17.29 min Scan# 2611
 Delta R.T. -0.02 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Instrument :
 BNA_F
 ClientSampleId :
 TP7-8-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	114432		
212	6.8	6.0	9.0	
122	14.3	10.3	15.5	

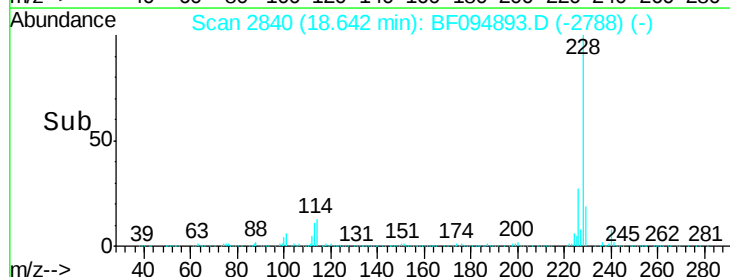
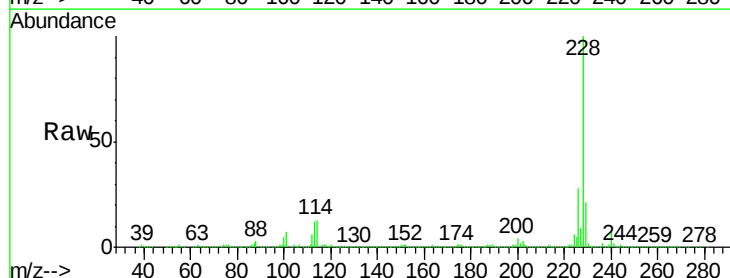
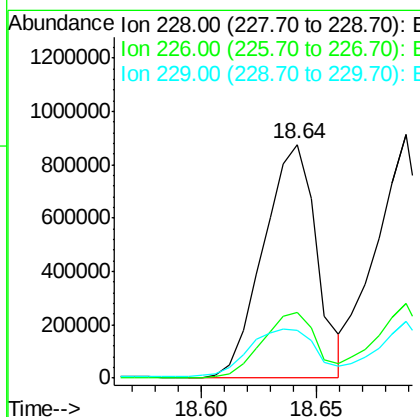
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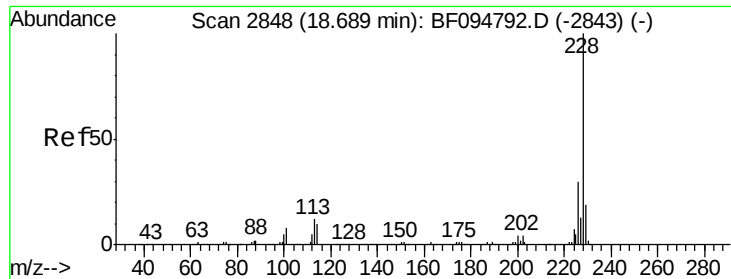
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#80
 Benzo(a)anthracene
 Concen: 130.49 ng
 RT: 18.64 min Scan# 2840
 Delta R.T. 0.01 min
 Lab File: BF094893.D
 Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	1393722		
226	27.9	22.6	33.8	
229	20.7	16.3	24.5	





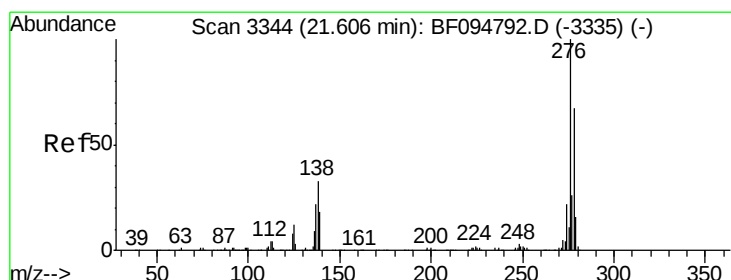
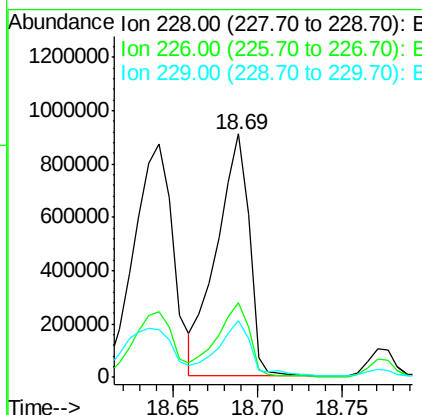
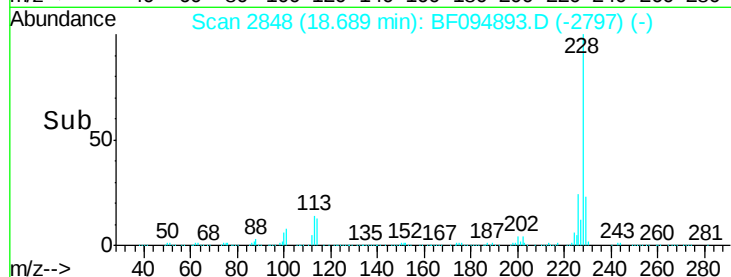
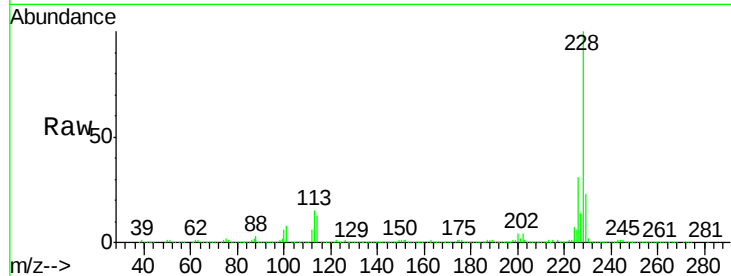
#82
Chrysene
Concen: 118.07 ng
RT: 18.69 min Scan# 2848
Delta R.T. 0.00 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

Tgt Ion:228 Resp: 1219350
Ion Ratio Lower Upper
228 100
226 30.5 24.9 37.3
229 23.2 15.8 23.6

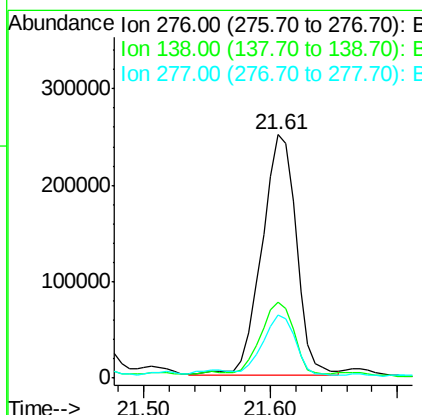
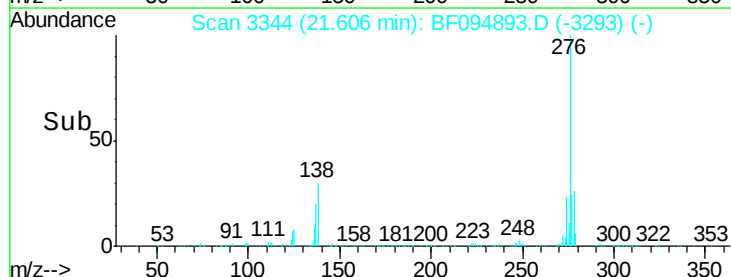
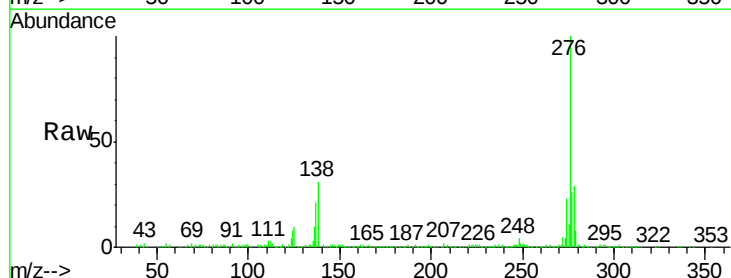
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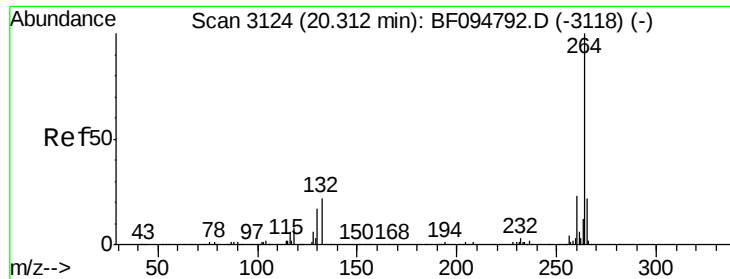
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#85
Indeno(1,2,3-cd)pyrene
Concen: 56.48 ng
RT: 21.61 min Scan# 3344
Delta R.T. 0.00 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion:276 Resp: 473711
Ion Ratio Lower Upper
276 100
138 28.7 27.8 41.6
277 24.3 20.2 30.4





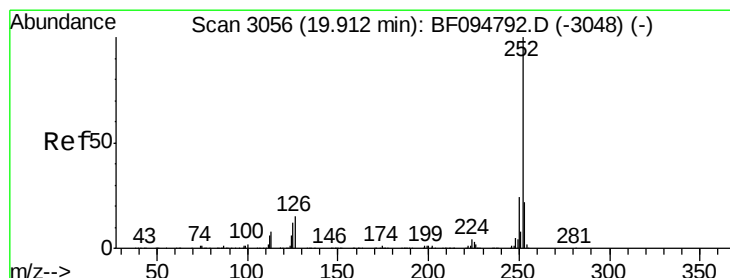
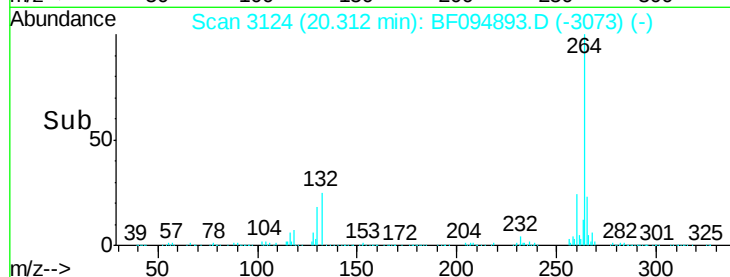
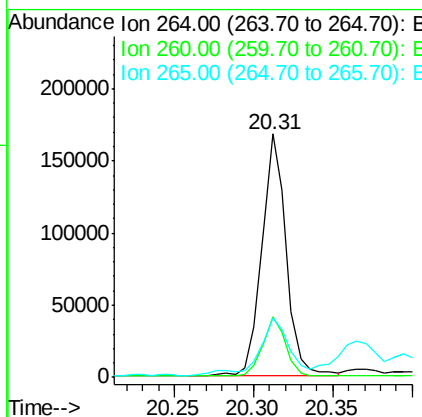
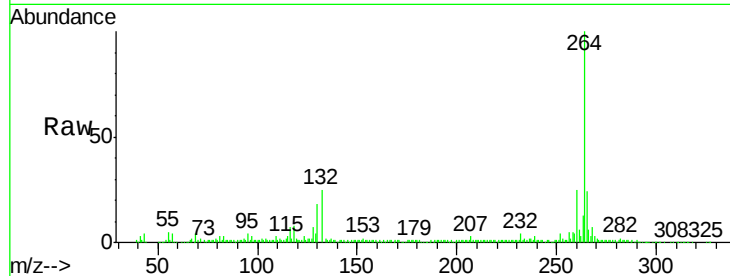
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.00 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	182525		
260	24.8	19.5	29.3	
265	24.2	17.2	25.8	

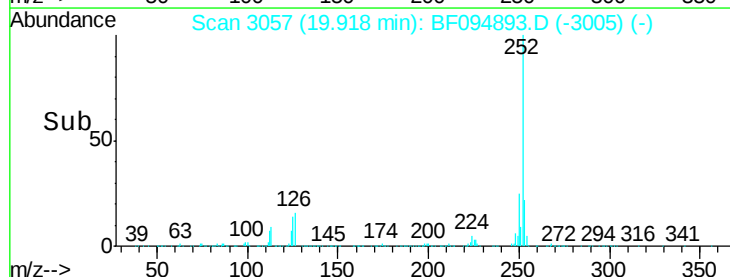
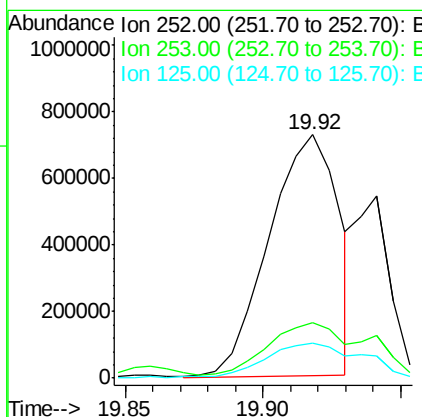
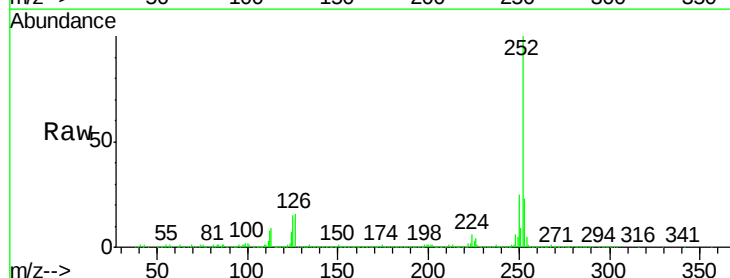
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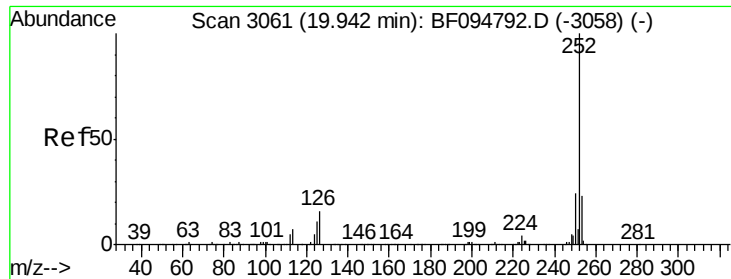
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#87
Benzo(b)fluoranthene
Concen: 114.18 ng m
RT: 19.92 min Scan# 3057
Delta R.T. 0.01 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1287762		
253	22.8	18.1	27.1	
125	14.6	9.8	14.8	





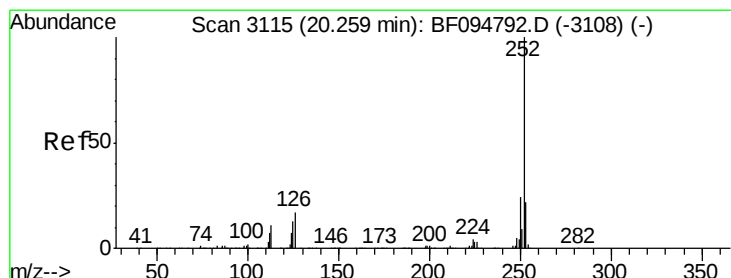
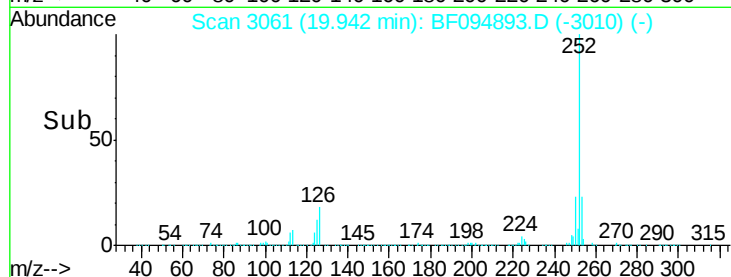
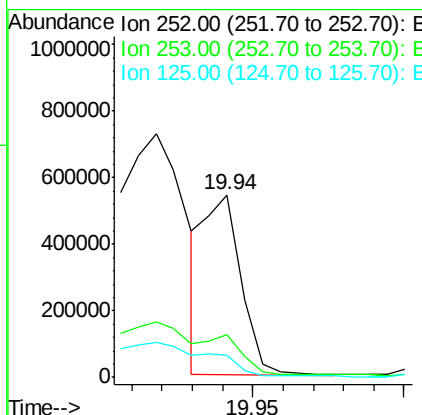
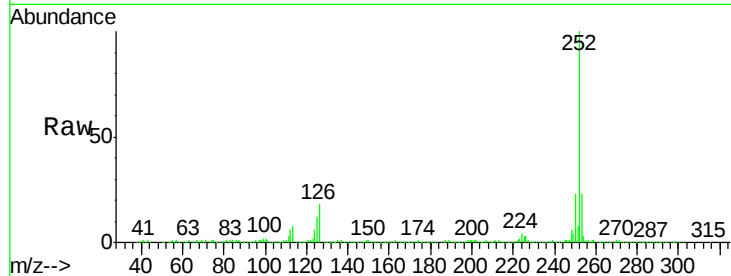
#88
Benzo(k)fluoranthene
Concen: 42.46 ng m
RT: 19.94 min Scan# 3061
Delta R.T. 0.00 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	12.5	13.1	19.7

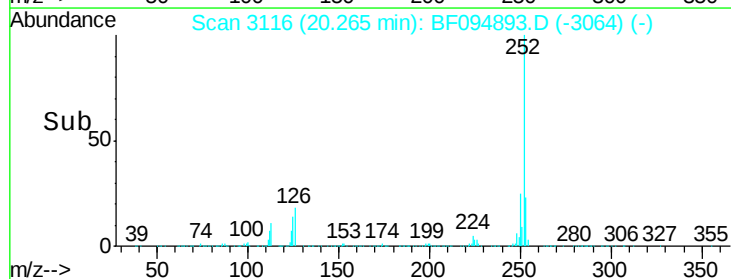
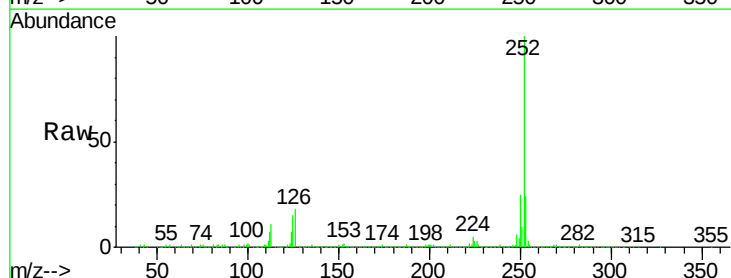
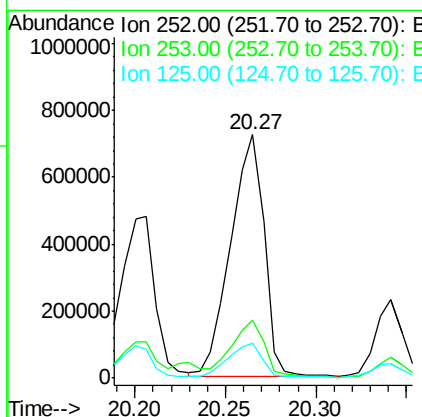
Manual Integrations
APPROVED

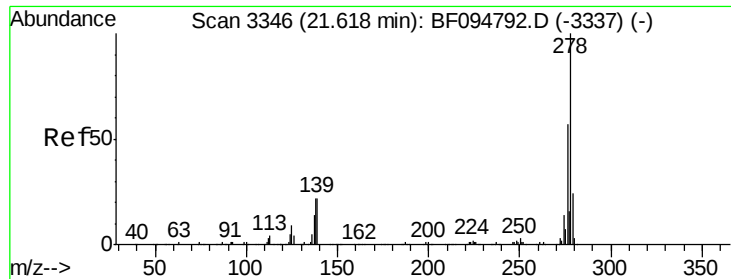
mohammad
5/5/2017 5:23:36 PM



#89
Benzo(a)pyrene
Concen: 90.03 ng
RT: 20.27 min Scan# 3116
Delta R.T. 0.01 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	14.5	11.0	16.4





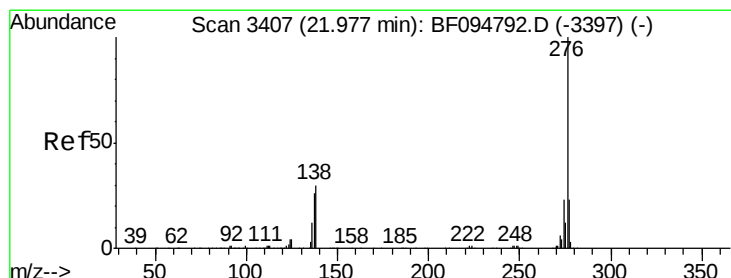
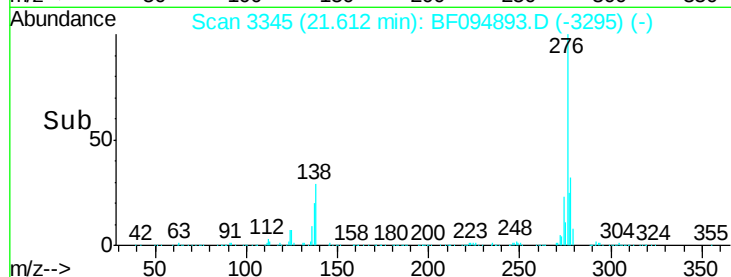
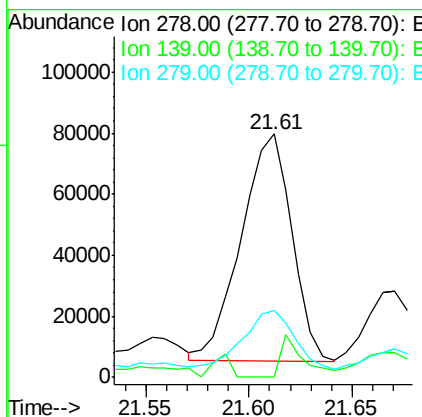
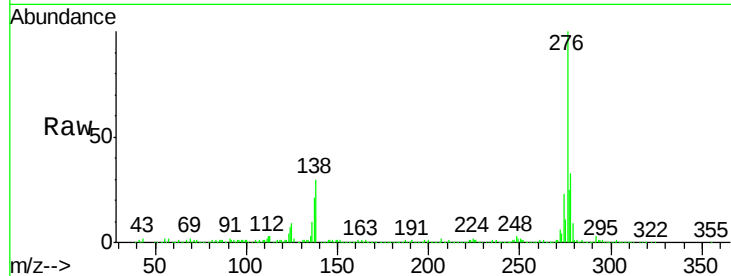
#90
Dibenzo(a,h)anthracene
Concen: 14.81 ng m
RT: 21.61 min Scan# 3345
Delta R.T. -0.01 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Instrument :
BNA_F
ClientSampleId :
TP7-8-COMP

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	27.5	19.3	28.9

Manual Integrations
APPROVED

mohammad
5/5/2017 5:23:36 PM



#91
Benzo(g,h,i)perylene
Concen: 51.88 ng
RT: 21.98 min Scan# 3408
Delta R.T. 0.01 min
Lab File: BF094893.D
Acq: 5 May 2017 1:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.6	28.0
138	30.0	25.4	38.0

