

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
 Data File : BF098559.D
 Acq On : 15 Sep 2017 10:27
 Operator : SJ/JU
 Sample : I5159-06
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1

Manual Integrations
 APPROVED

Sohil
 9/18/2017 3:33:20 PM

Quant Time: Sep 15 14:05:51 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 15 13:23:10 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	135206	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	552840	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	240938	20.00	ng	0.00
63) Phenanthrene-d10	11.16	188	388226	20.00	ng	0.00
75) Chrysene-d12	13.81	240	258742	20.00	ng	0.00
86) Perylene-d12	15.22	264	284873	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	1005356	109.94	ng	0.00
7) Phenol-d6	6.30	99	1247710	107.46	ng	0.00
23) Nitrobenzene-d5	7.22	82	760906	76.73	ng	0.00
41) 2,4,6-Tribromophenol	10.47	330	219445	136.47	ng	0.00
44) 2-Fluorobiphenyl	9.00	172	1341133	94.34	ng	0.00
78) Terphenyl-d14	12.75	244	906800	75.65	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.32	94	36924	2.738	ng	81
31) Naphthalene	7.95	128	380088	13.907	ng	99
37) 2-Methylnaphthalene	8.64	142	237674	14.357	ng	98
45) 1,1'-Biphenyl	9.10	154	96842	4.491	ng	95
48) Acenaphthylene	9.54	152	165609	7.232	ng	99
49) Dimethylphthalate	9.40	163	182545	9.788	ng	99
51) Acenaphthene	9.71	154	76026	5.223	ng	95
54) Dibenzofuran	9.88	168	306554	15.986	ng	96
57) Fluorene	10.23	166	81952	5.163	ng	99
70) Phenanthrene	11.19	178	899835	43.722	ng	98
71) Anthracene	11.24	178	381736	18.066	ng	97
72) Carbazole	11.40	167	151504	7.693	ng	98
74) Fluoranthene	12.38	202	1743215	84.609	ng	100
77) Pyrene	12.61	202	1594815	78.134	ng	99
80) Benzo(a)anthracene	13.80	228	789367	52.036	ng	96
82) Chrysene	13.83	228	929763	60.634	ng	97
83) Bis(2-ethylhexyl)phthalate	13.79	149	105448	9.489	ng	# 100
85) Indeno(1,2,3-cd)pyrene	16.56	276	421849m	39.212	ng	
87) Benzo(b)fluoranthene	14.83	252	1281003m	71.516	ng	
88) Benzo(k)fluoranthene	14.84	252	399647m	23.900	ng	
89) Benzo(a)pyrene	15.16	252	525278	32.917	ng	96
90) Dibenzo(a,h)anthracene	16.56	278	106067m	9.137	ng	
91) Benzo(g,h,i)perylene	16.97	276	352116	30.158	ng	93

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

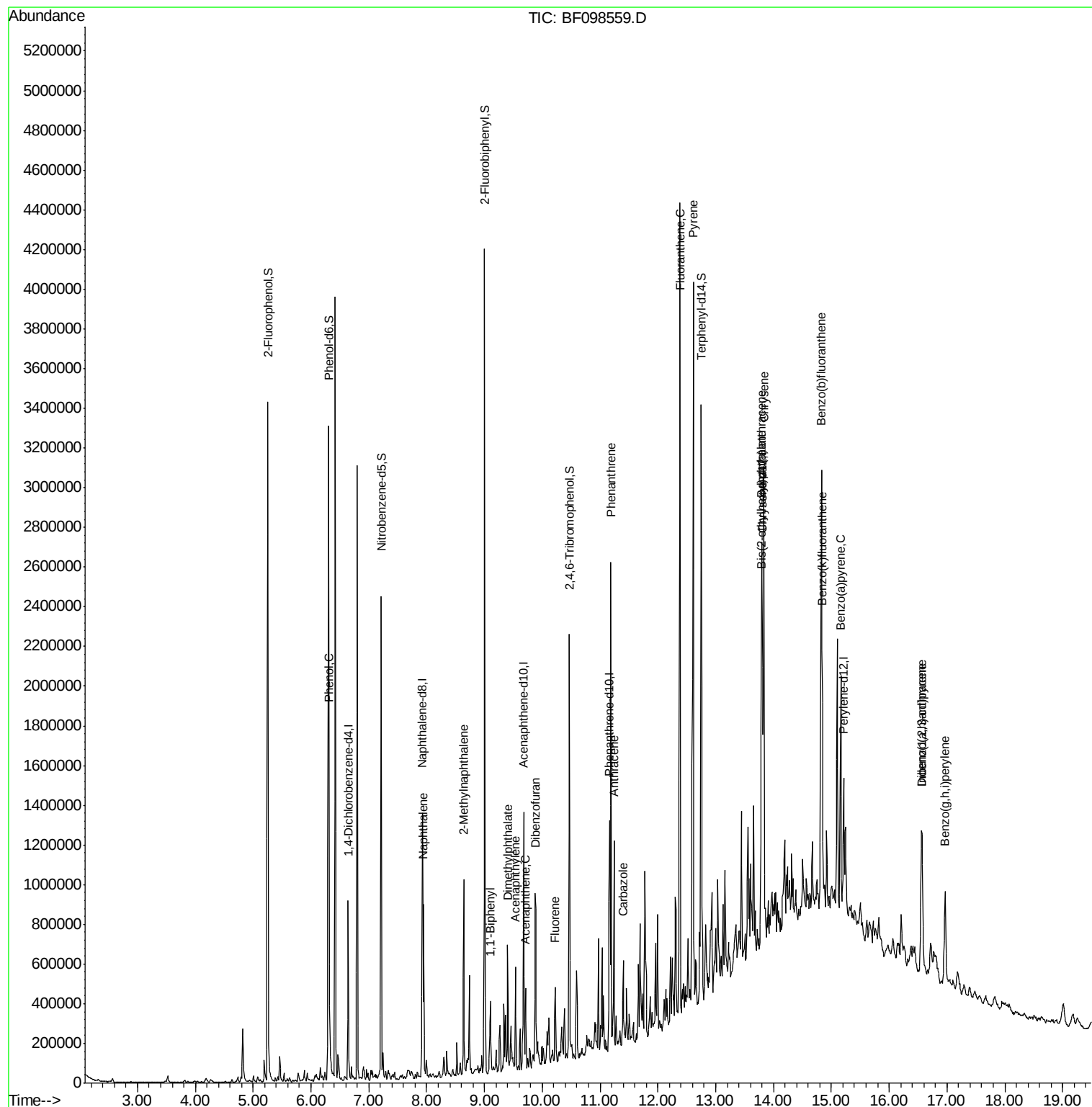
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098559.D
Acq On : 15 Sep 2017 10:27
Operator : SJ/JU
Sample : I5159-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

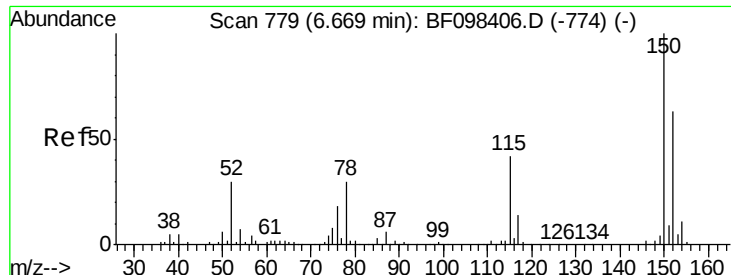
Instrument :
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ClientSampleId :
G-9-1

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#1

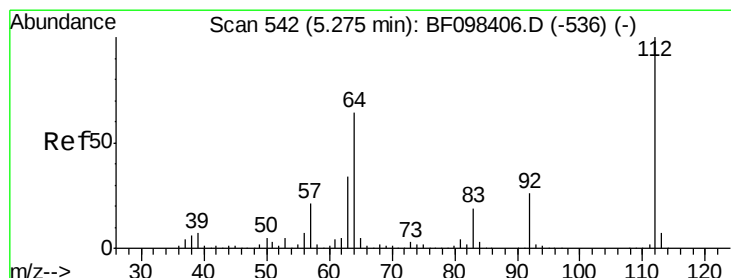
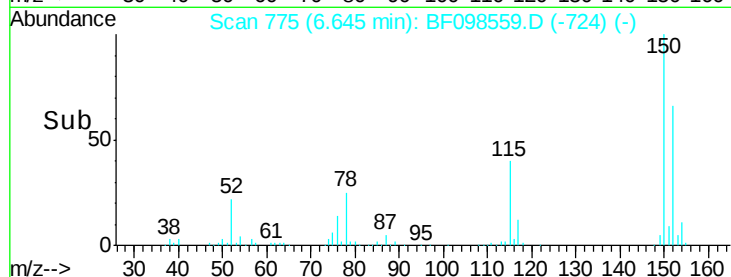
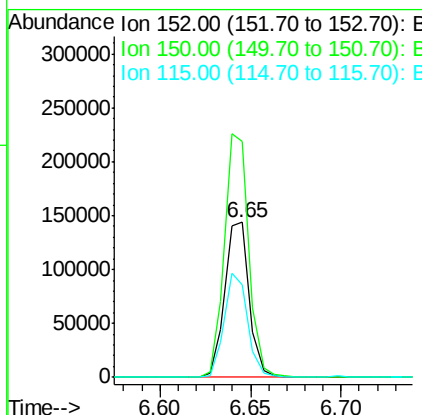
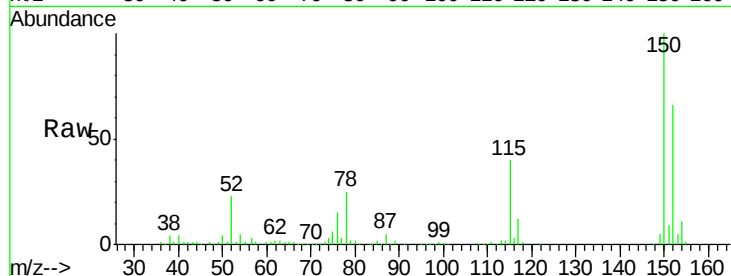
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.65 min Scan# 775
Delta R.T. 0.00 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Instrument :
BNA_F
ClientSampled :
G-9-1

Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.7	126.2	189.2
115	60.0	52.2	78.2

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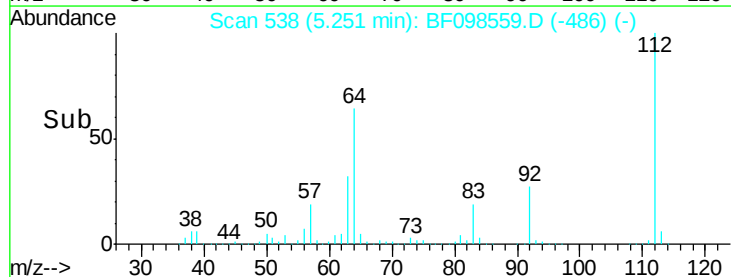
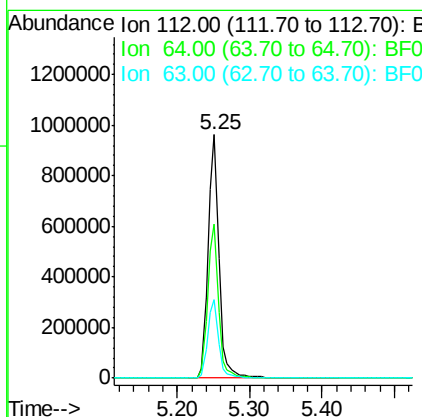
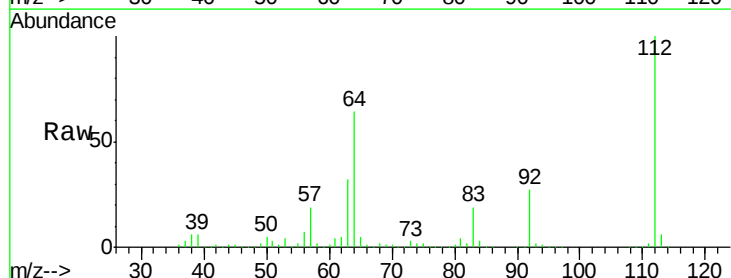
Sohil
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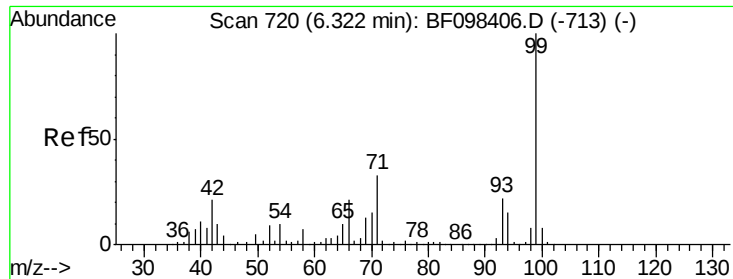


#5

2-Fluorophenol
Concen: 109.939 ng
RT: 5.25 min Scan# 538
Delta R.T. 0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	46.0	69.0
63	32.1	23.4	35.0





#7

Phenol-d6

Concen: 107.463 ng

RT: 6.30 min Scan# 717

Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA_F

ClientSampled :

G-9-1

Tgt Ion: 99 Resp: 1247710

Ion Ratio Lower Upper

99 100

42 18.9 13.5 20.3

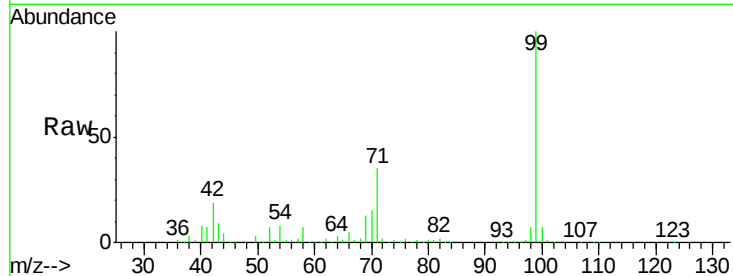
71 34.7 24.5 36.7

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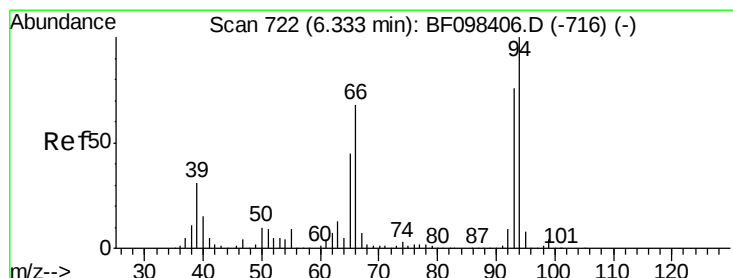
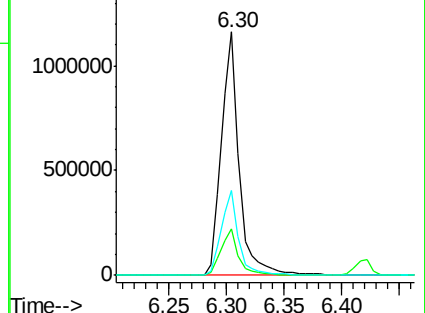
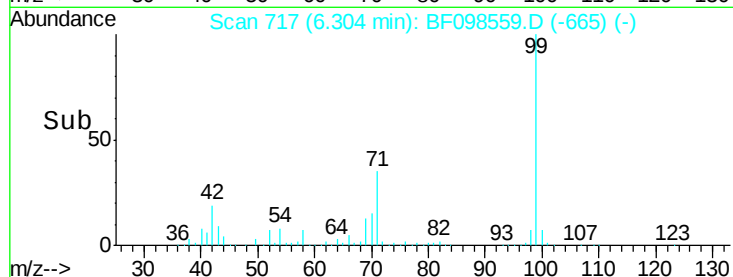
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.738 ng

RT: 6.32 min Scan# 719

Delta R.T. 0.00 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

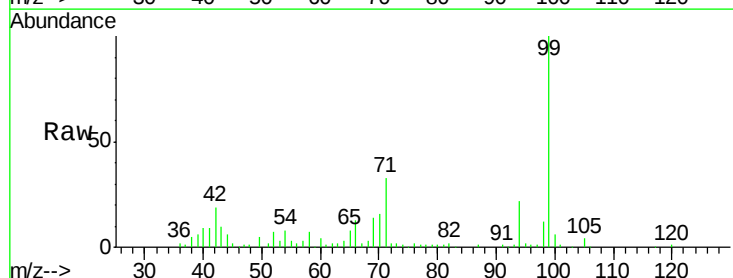
Tgt Ion: 94 Resp: 36924

Ion Ratio Lower Upper

94 100

65 35.5 9.9 49.9

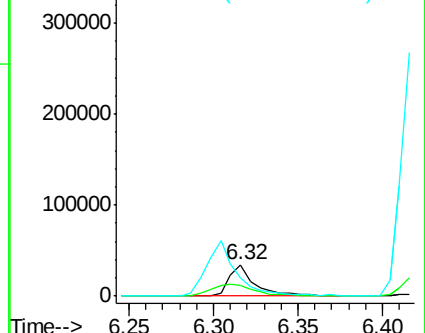
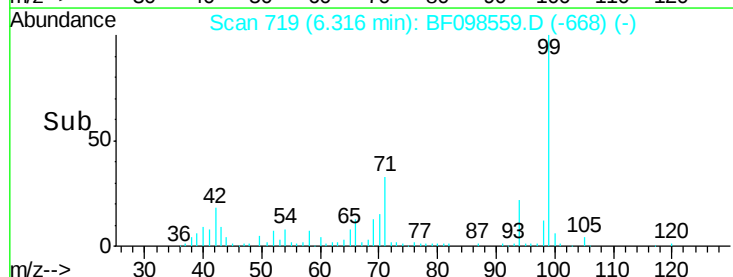
66 59.0 23.1 63.1

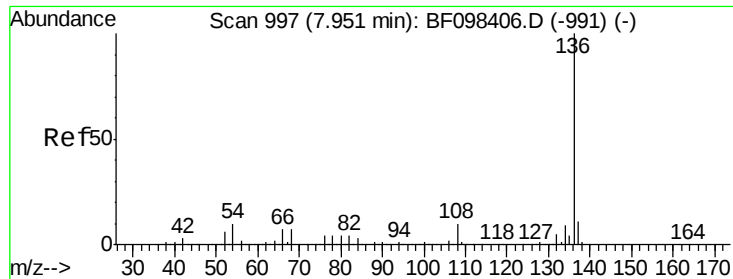


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





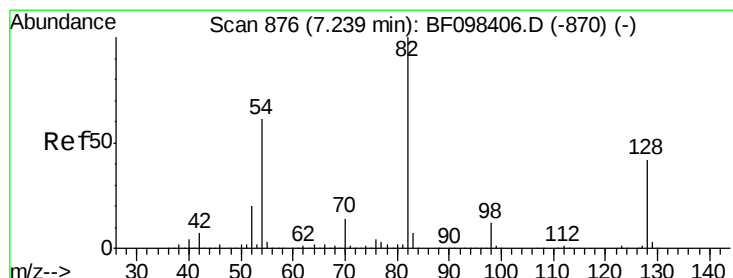
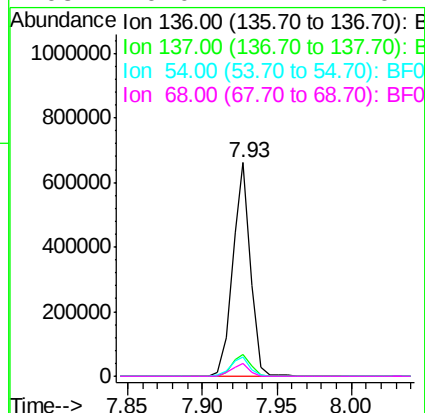
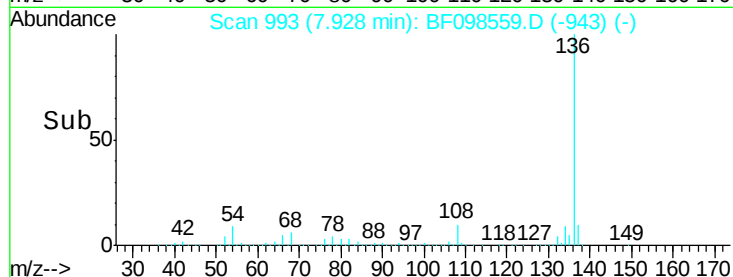
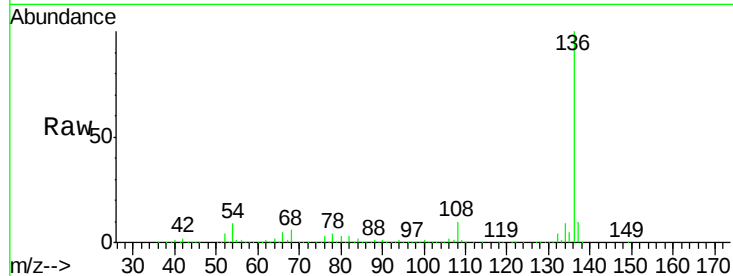
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.93 min Scan# 993
Delta R.T. -0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Instrument :
BNA_F
ClientSampled :
G-9-1

Tgt Ion	Ratio	Resp Lower	Upper
136	100		
137	10.5	8.5	12.7
54	8.9	4.9	7.3#
68	6.0	4.1	6.1

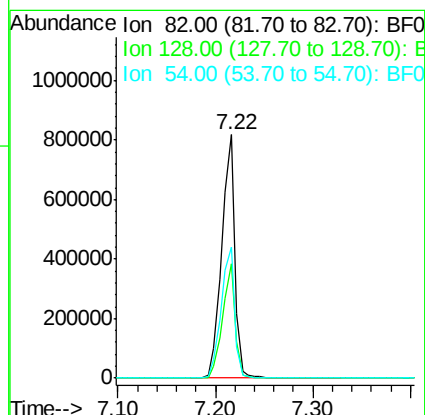
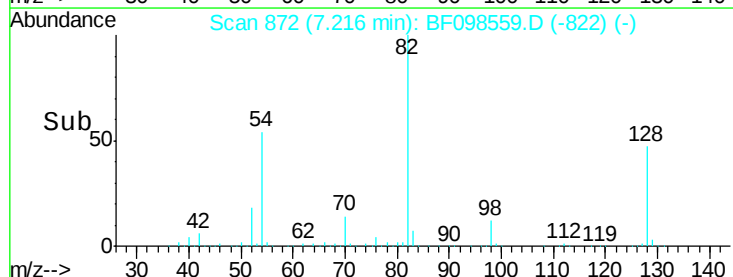
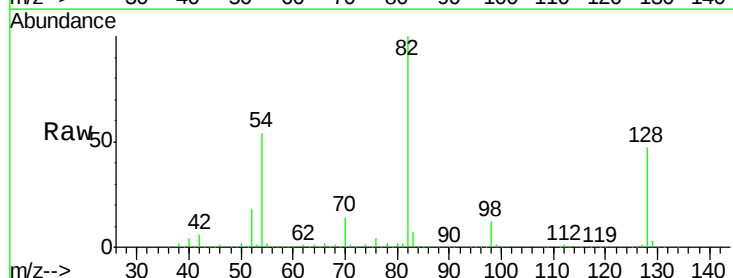
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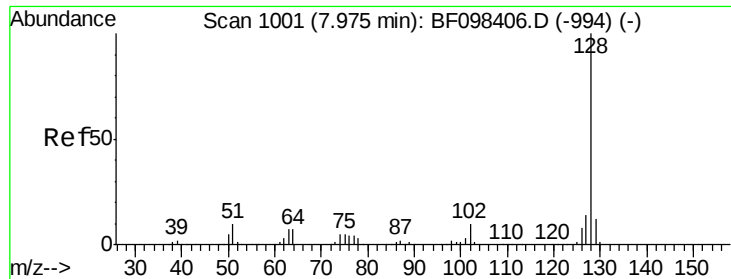
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#23
Nitrobenzene-d5
Concen: 76.731 ng
RT: 7.22 min Scan# 872
Delta R.T. -0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	46.7	34.0	51.0
54	53.6	42.2	63.2





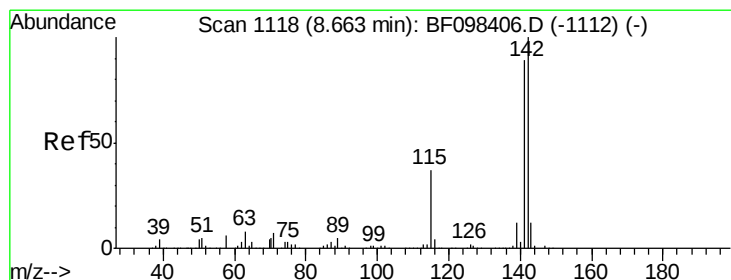
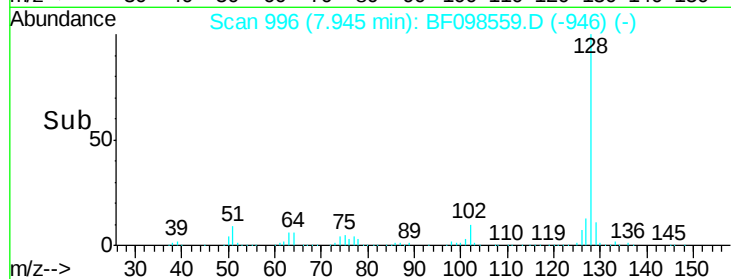
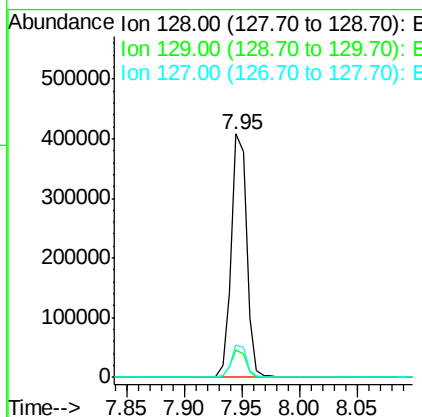
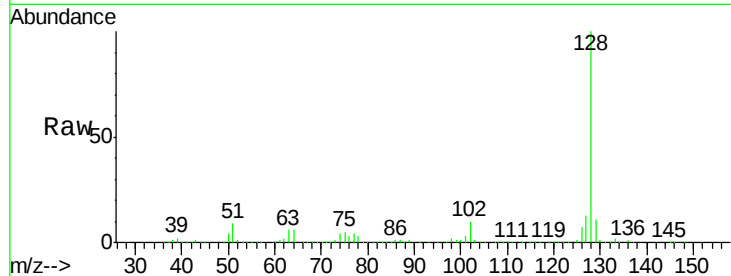
#31
Naphthalene
Concen: 13.907 ng
RT: 7.95 min Scan# 996
Delta R.T. -0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Instrument :
BNA_F
ClientSampled :
G-9-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.0	9.0	13.6
127	13.4	10.8	16.2

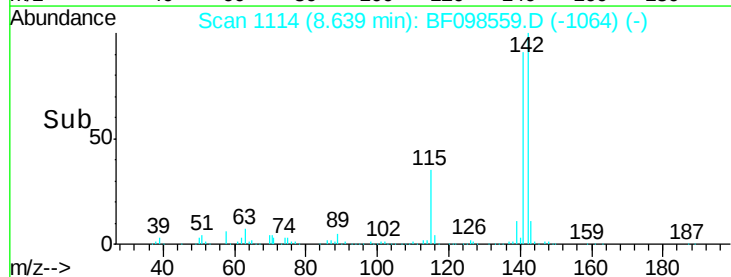
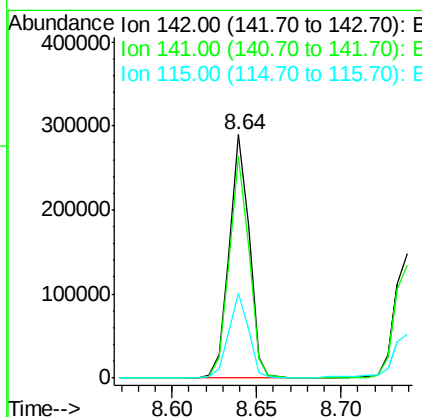
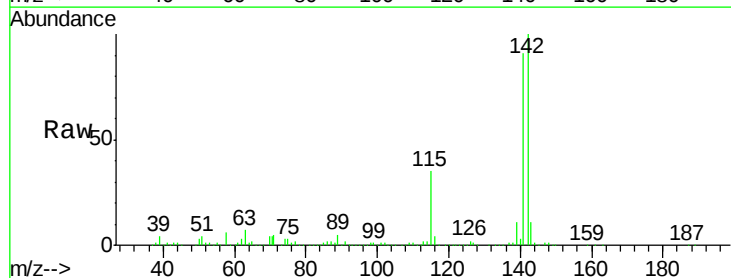
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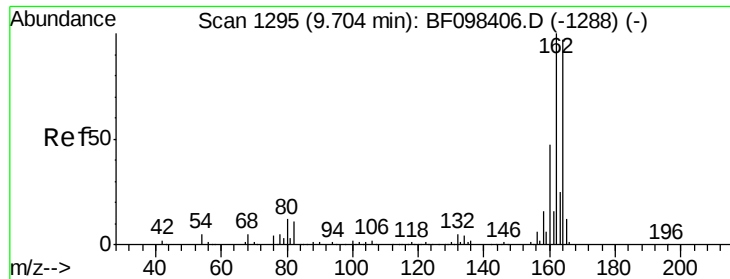
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#37
2-Methylnaphthalene
Concen: 14.357 ng
RT: 8.64 min Scan# 1114
Delta R.T. -0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Resp Lower	Resp Upper
142	100		
141	91.0	71.3	106.9
115	35.1	27.1	40.7





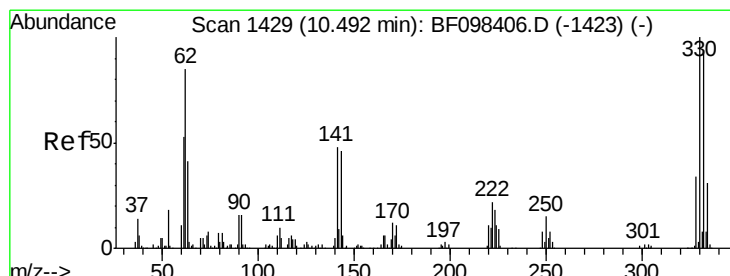
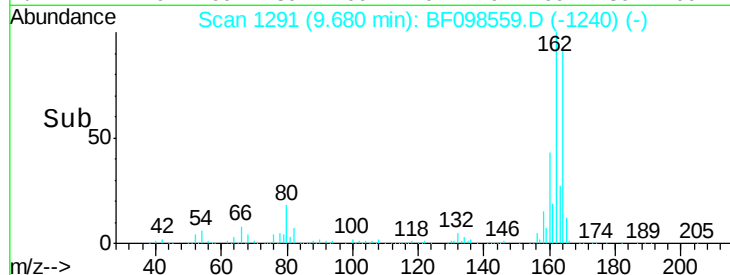
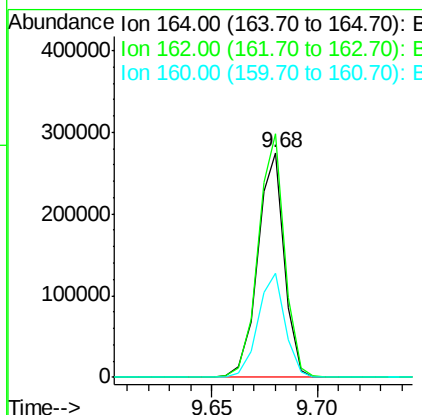
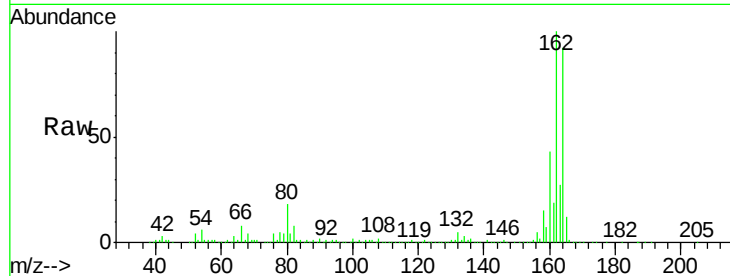
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.68 min Scan# 1291
Delta R.T. 0.00 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Instrument :
BNA_F
ClientSampleId :
G-9-1

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	240938		
162	108.4	82.6	123.8	
160	46.5	36.2	54.2	

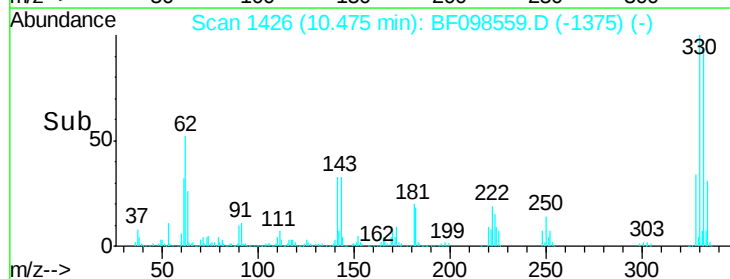
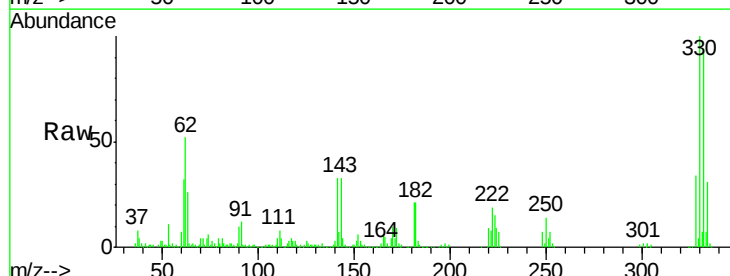
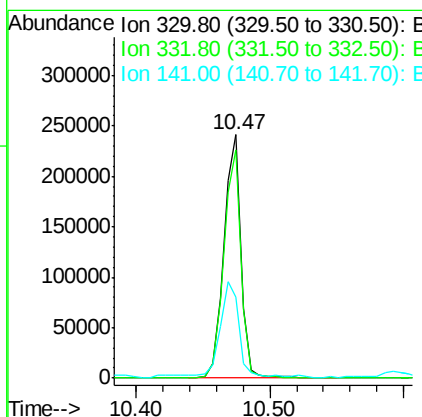
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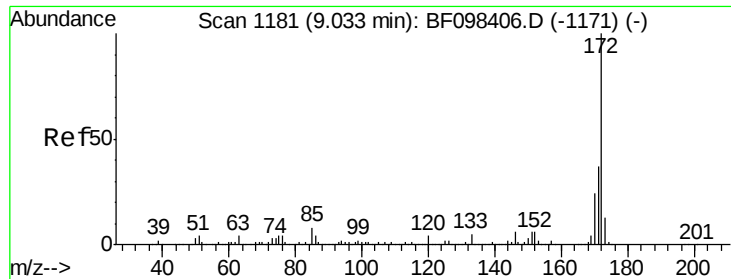
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#41
2,4,6-Tribromophenol
Concen: 136.465 ng
RT: 10.47 min Scan# 1426
Delta R.T. 0.00 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	219445		
332	94.6	76.6	115.0	
141	43.7	31.4	47.2	





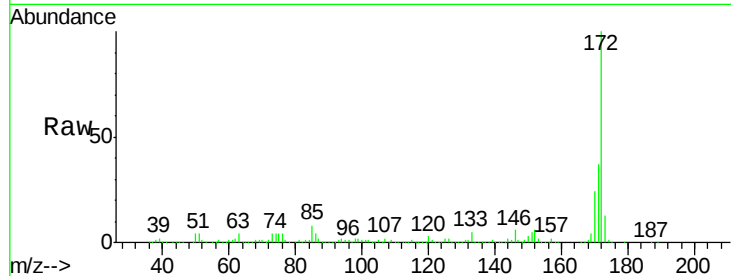
#44
 2-Fluorobiphenyl
 Concen: 94.344 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.01 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Instrument :
 BNA_F
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 G-9-1

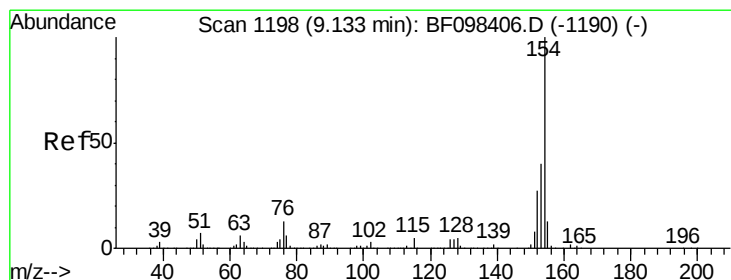
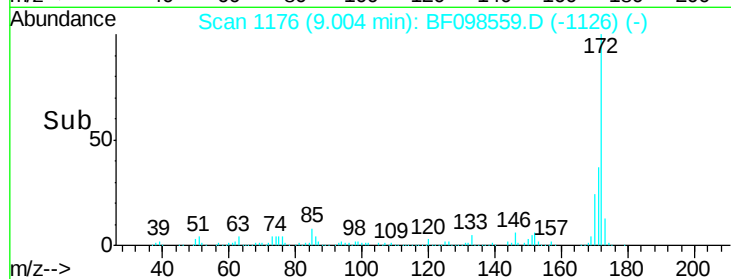
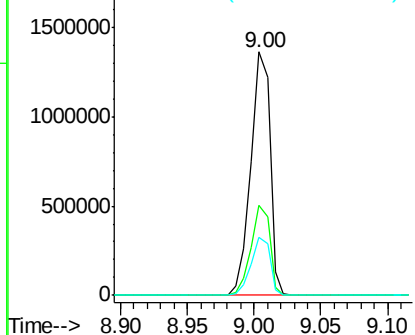
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.6	44.4
170	23.7	19.8	29.8

Manual Integrations
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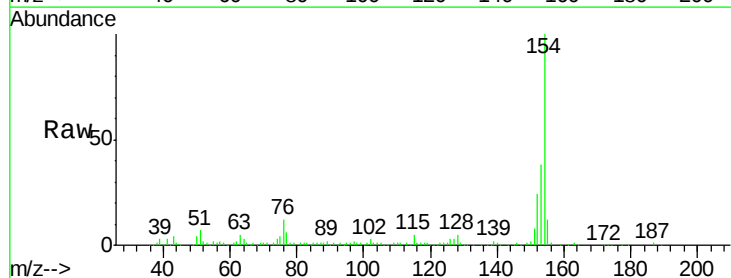


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

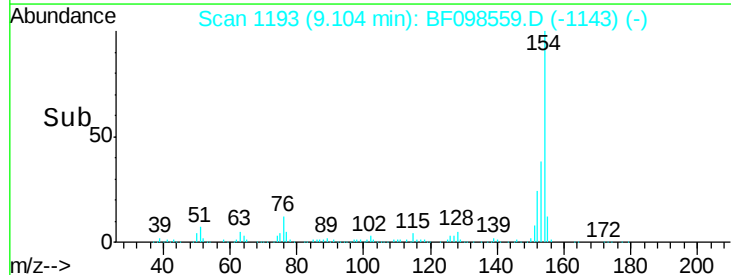
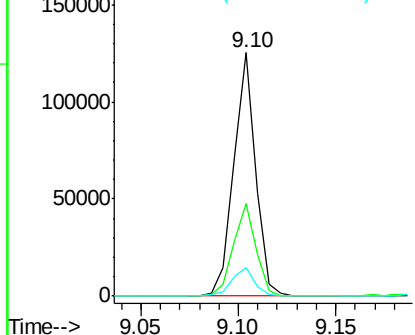


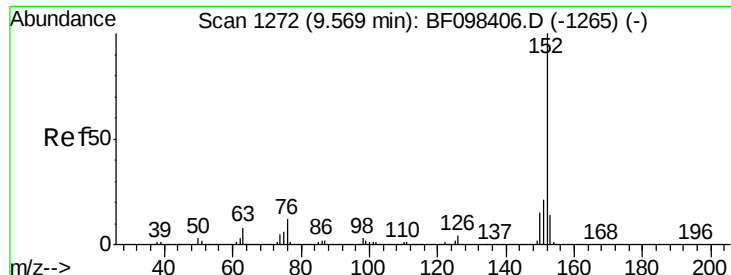
#45
 1,1'-Biphenyl
 Concen: 4.491 ng
 RT: 9.10 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.2	21.2	61.2
76	11.6	0.0	29.9



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





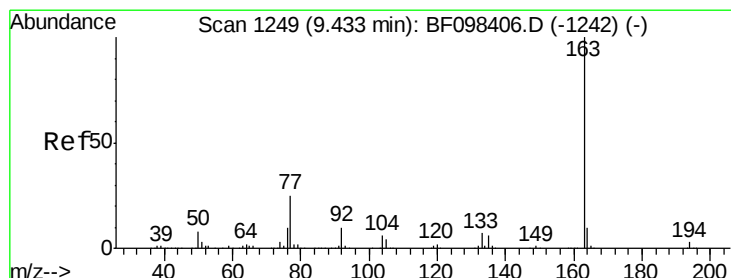
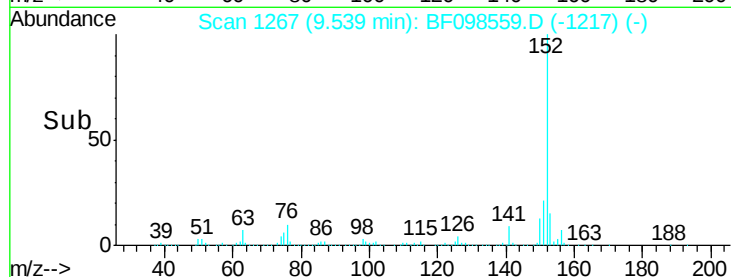
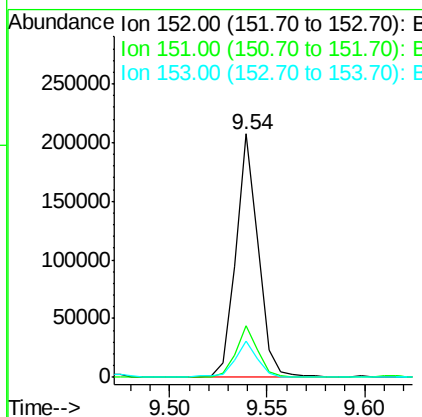
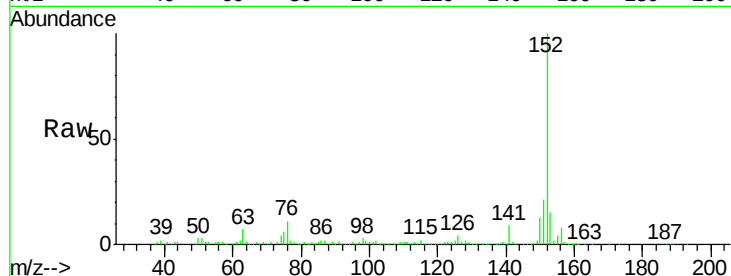
#48
Acenaphthylene
Concen: 7.232 ng
RT: 9.54 min Scan# 1267
Delta R.T. -0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Instrument :
BNA_F
ClientSampled :
G-9-1

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	165609		
151	21.0		16.8	25.2
153	14.9		10.8	16.2

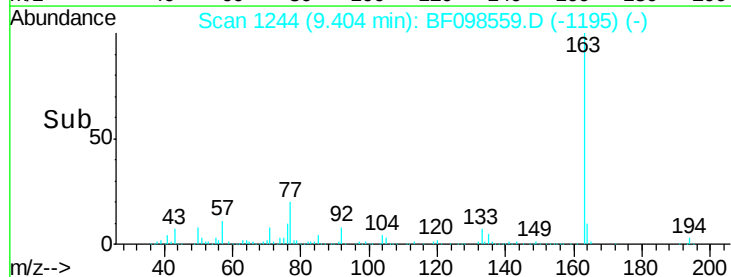
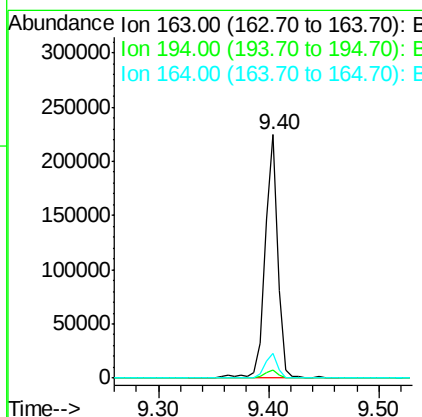
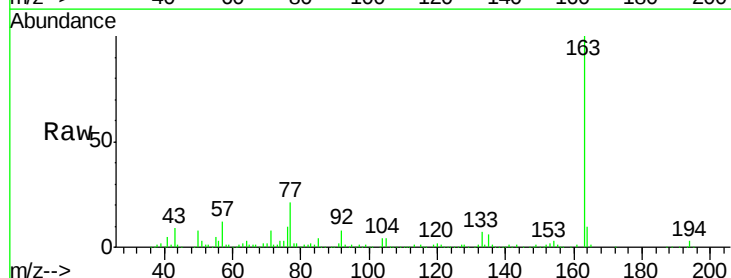
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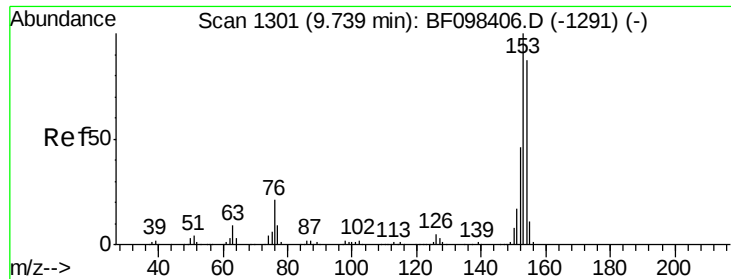
Sohil
9/18/2017 3:33:20 PM



#49
Dimethylphthalate
Concen: 9.788 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	182545		
194	3.4		2.6	4.0
164	10.2		8.4	12.6





#51

Acenaphthene

Concen: 5.223 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA_F

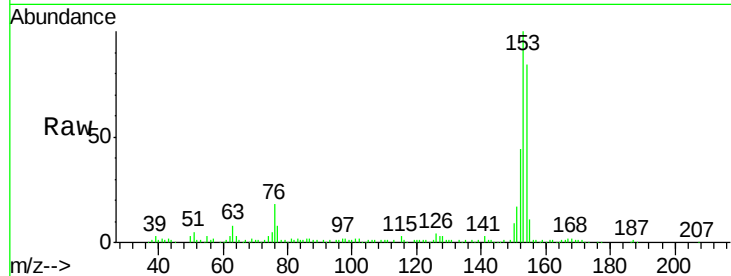
ClientSampled :

G-9-1

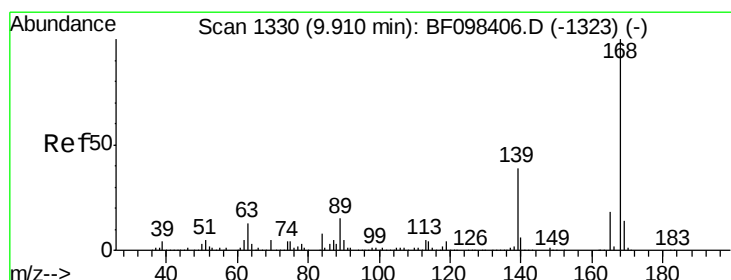
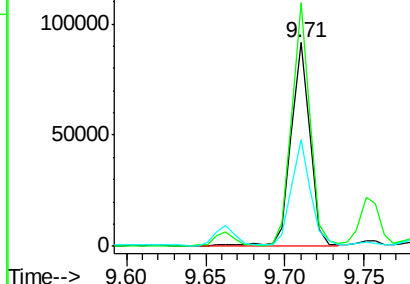
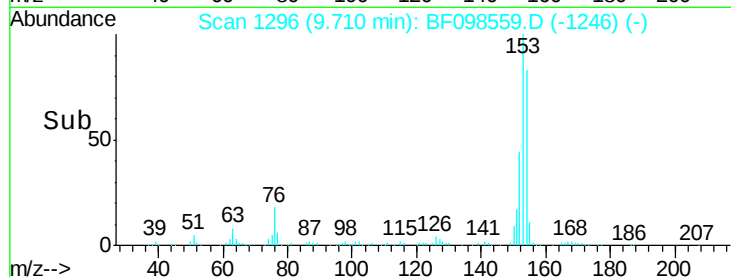
Tgt Ion:	154	Resp:	76026
Ion Ratio	Lower	Upper	
154	100		
153	119.7	90.5	135.7
152	52.7	43.6	65.4

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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: 15.986 ng

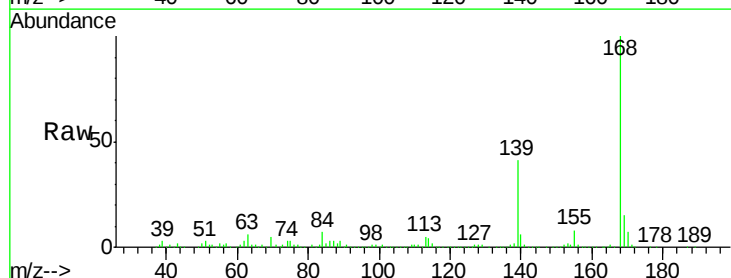
RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

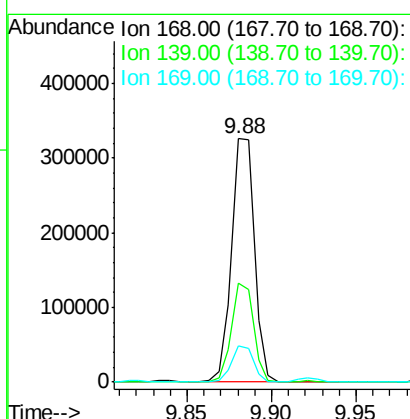
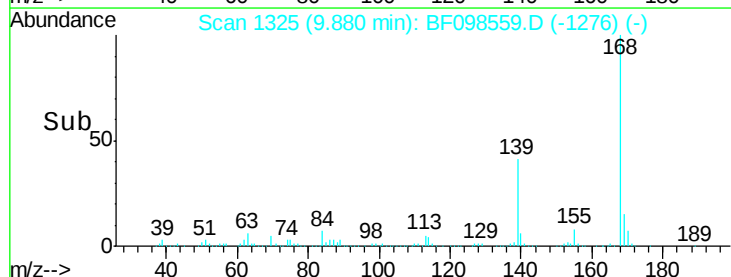
Lab File: BF098559.D

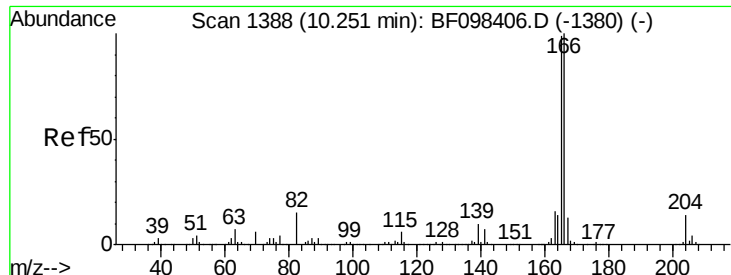
Acq: 15 Sep 2017 10:27

Tgt Ion:	168	Resp:	306554
Ion Ratio	Lower	Upper	
168	100		
139	40.7	30.6	45.8
169	15.1	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





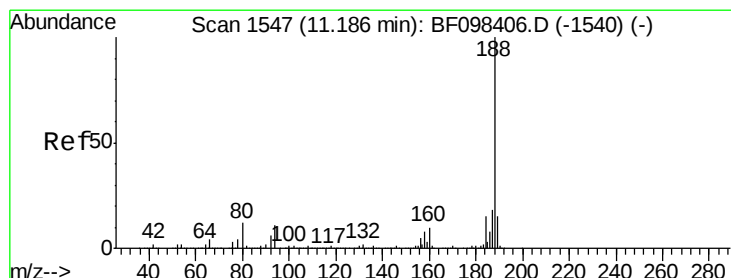
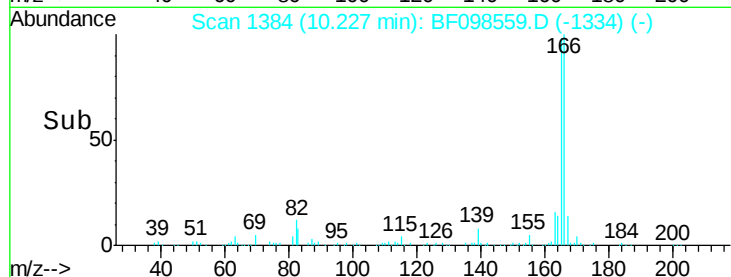
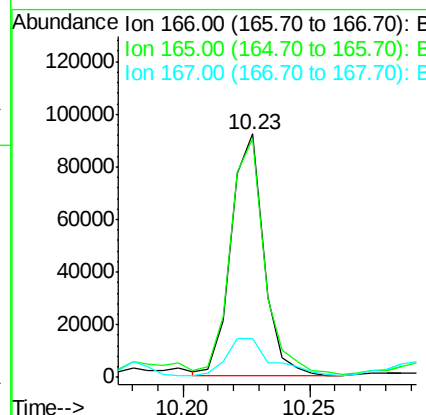
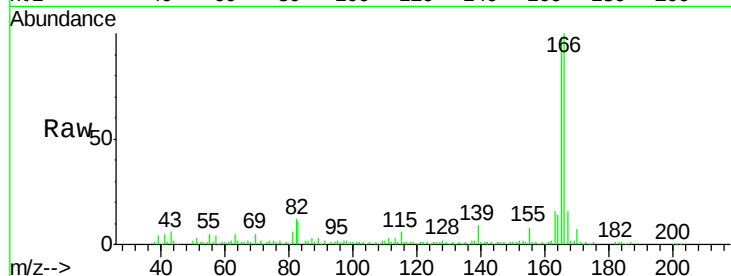
#57
Fluorene
 Concen: 5.163 ng
 RT: 10.23 min Scan# 1384
 Delta R.T. -0.01 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	81952		
165	98.0		78.8	118.2
167	15.9		10.6	16.0

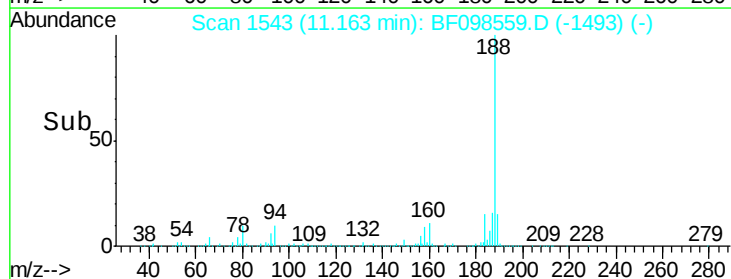
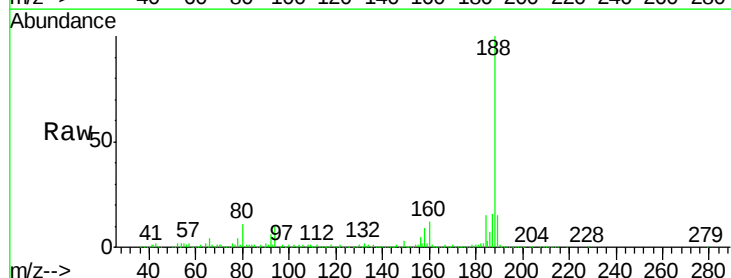
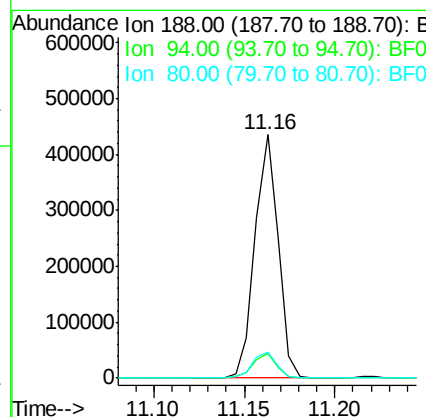
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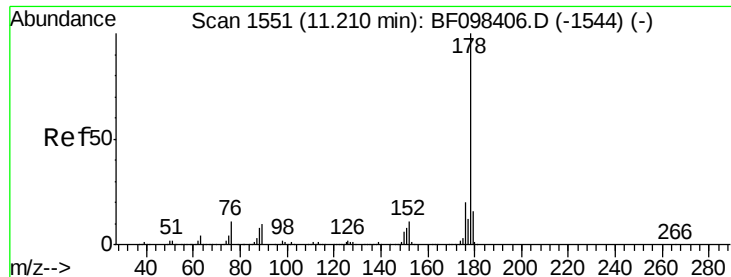
Sohil
 9/18/2017 3:33:20 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.16 min Scan# 1543
 Delta R.T. -0.01 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	388226		
94	10.0		9.4	14.2
80	10.6		10.2	15.2





#70

Phenanthrene

Concen: 43.722 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA_F

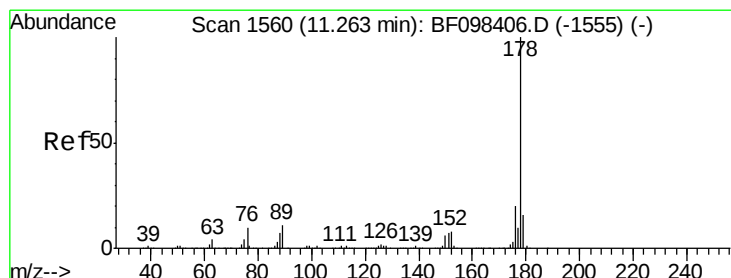
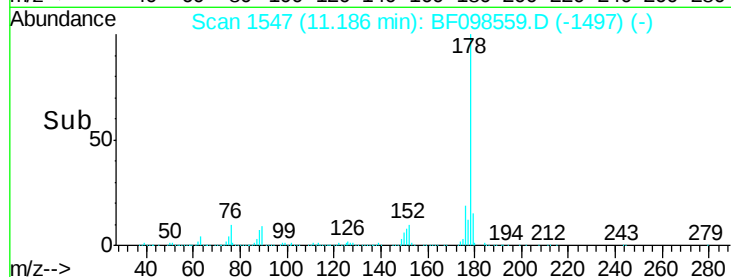
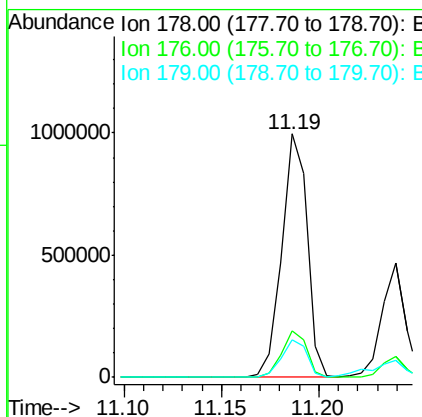
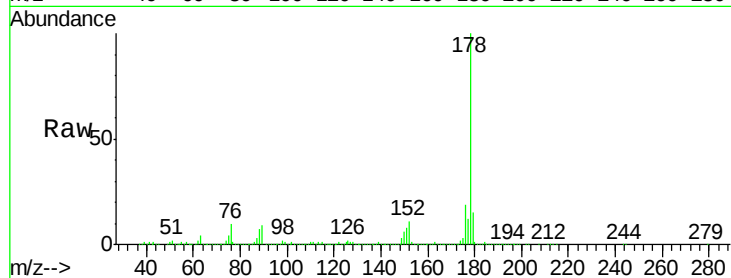
ClientSampled :

G-9-1

Tgt Ion:	178	Resp:	899835
Ion Ratio	Lower	Upper	
178	100		
176	19.1	16.2	24.4
179	15.4	12.6	19.0

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#71

Anthracene

Concen: 18.066 ng

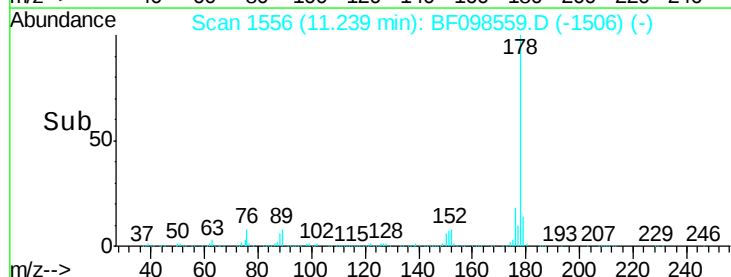
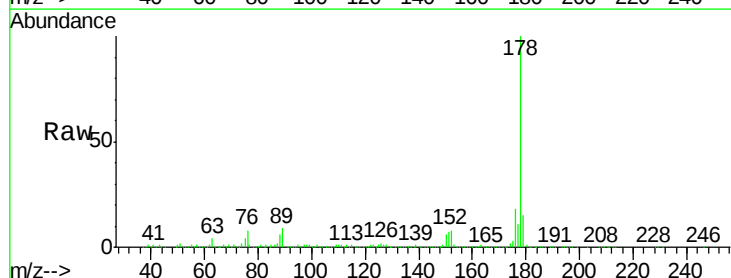
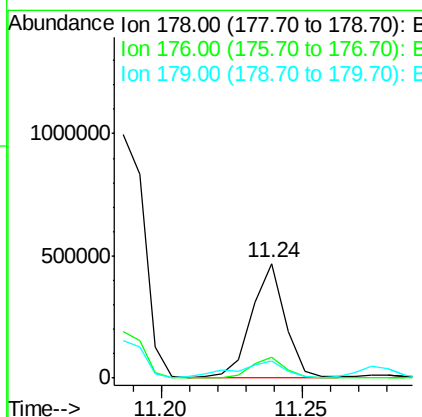
RT: 11.24 min Scan# 1556

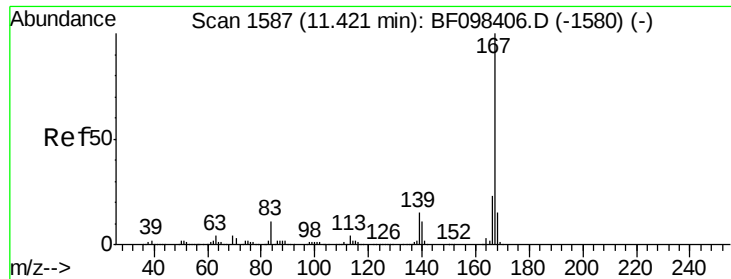
Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Tgt Ion:	178	Resp:	381736
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.8	23.8
179	14.7	12.7	19.1





#72

Carbazole

Concen: 7.693 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA_F

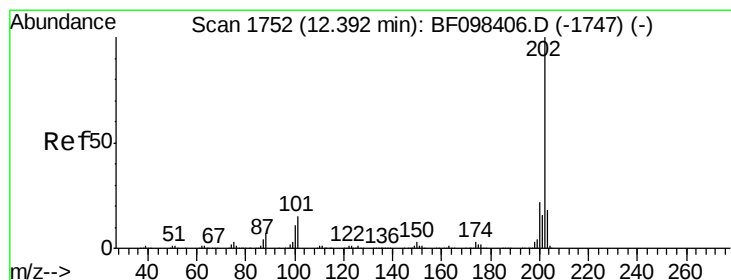
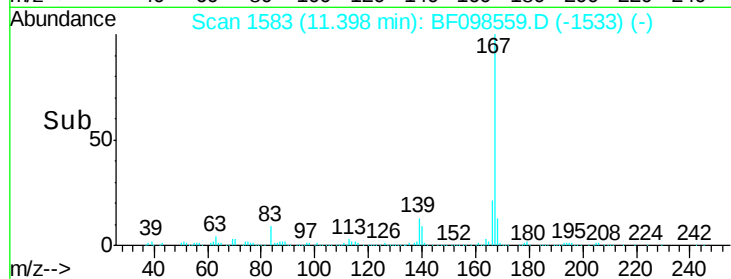
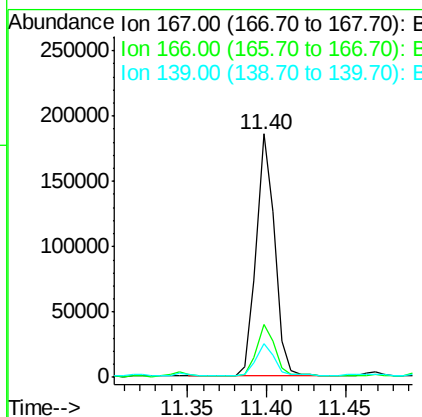
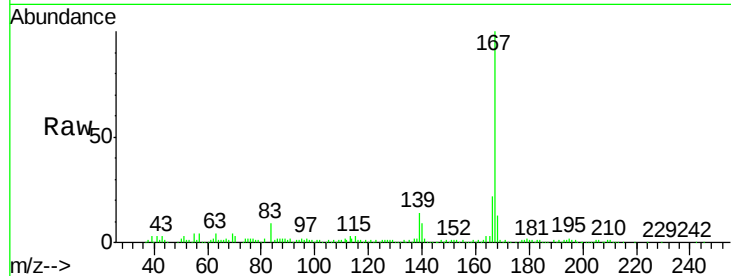
ClientSampled :

G-9-1

Tgt Ion:	167	Resp:	151504
Ion Ratio		Lower	Upper
167	100		
166	21.7	18.1	27.1
139	14.0	11.7	17.5

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#74

Fluoranthene

Concen: 84.609 ng

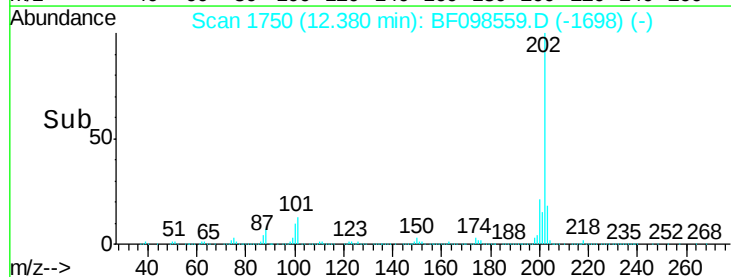
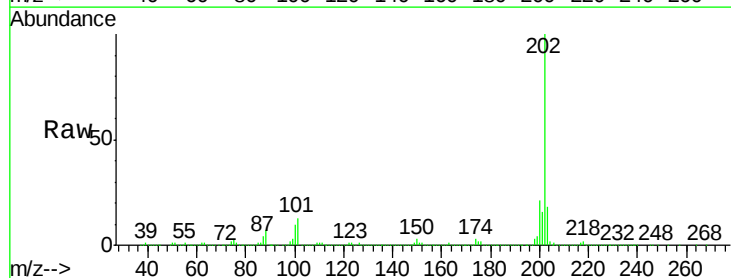
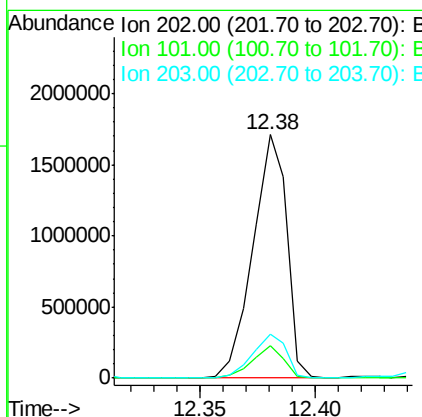
RT: 12.38 min Scan# 1750

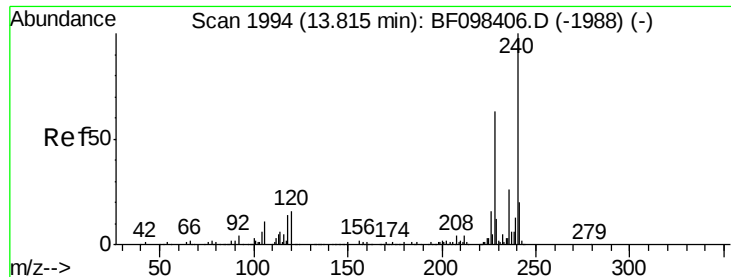
Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Tgt Ion:	202	Resp:	1743215
Ion Ratio		Lower	Upper
202	100		
101	13.3	0.0	33.2
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.81 min Scan# 1993

Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA_F

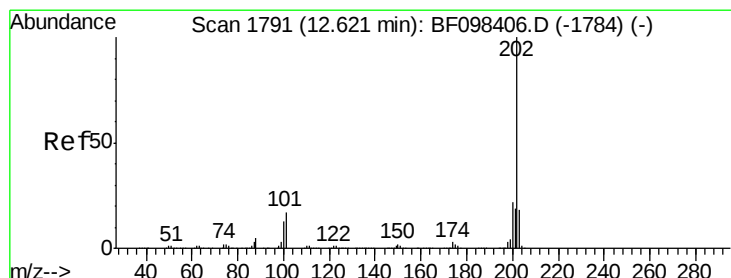
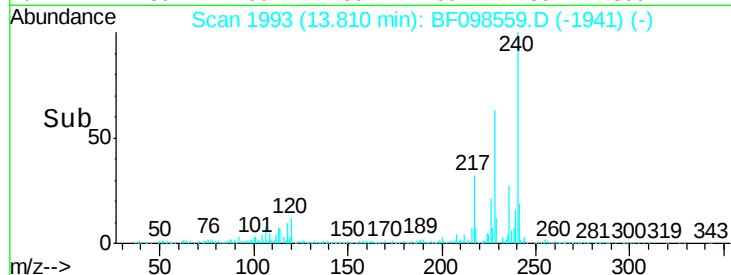
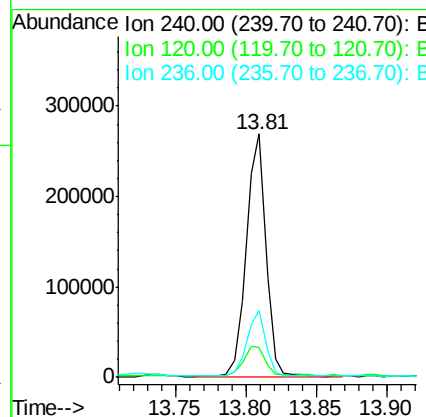
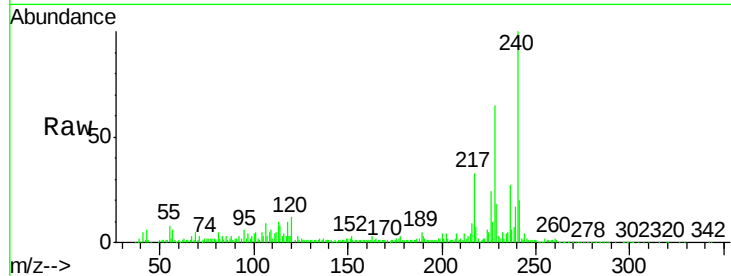
ClientSampled :

G-9-1

Tgt Ion:240 Resp: 258742
 Ion Ratio Lower Upper
 240 100
 120 12.1 5.8 8.8#
 236 27.4 20.5 30.7

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#77

Pyrene

Concen: 78.134 ng

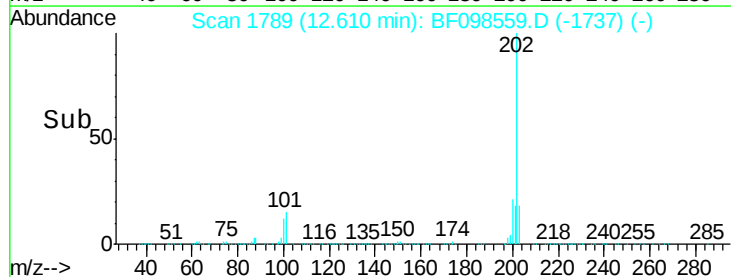
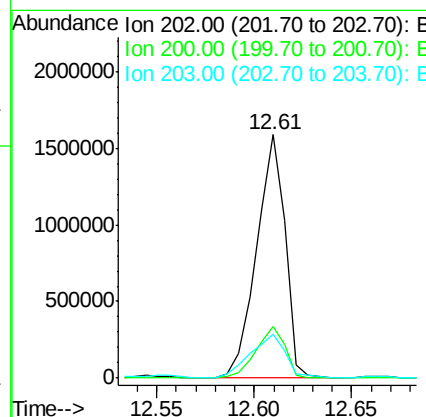
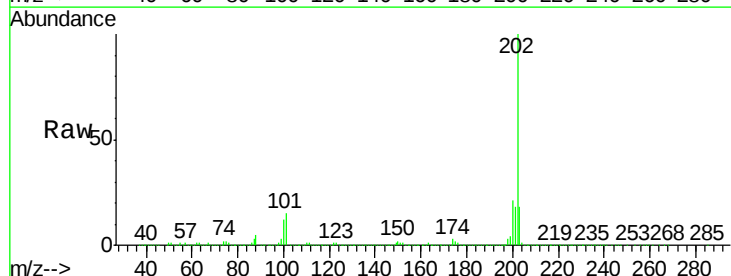
RT: 12.61 min Scan# 1789

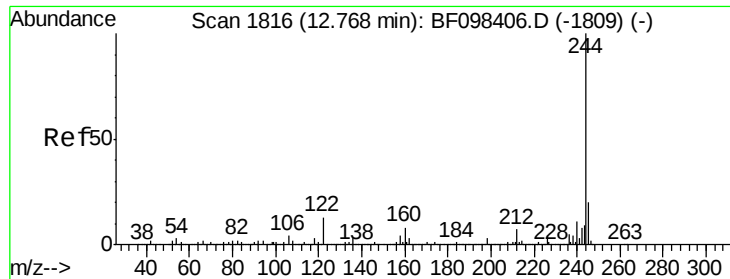
Delta R.T. 0.01 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Tgt Ion:202 Resp: 1594815
 Ion Ratio Lower Upper
 202 100
 200 21.3 17.6 26.4
 203 18.0 14.4 21.6





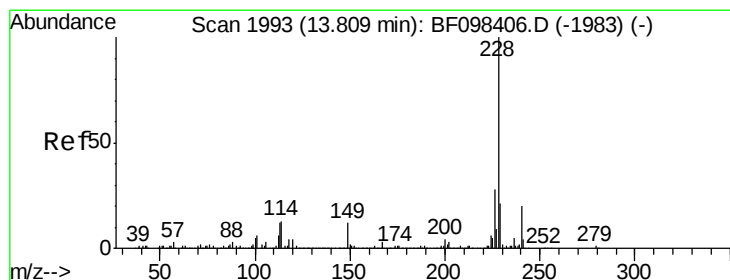
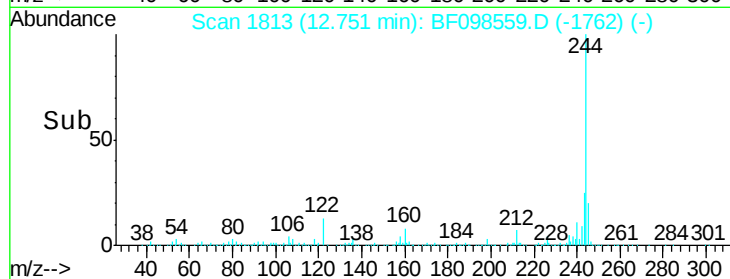
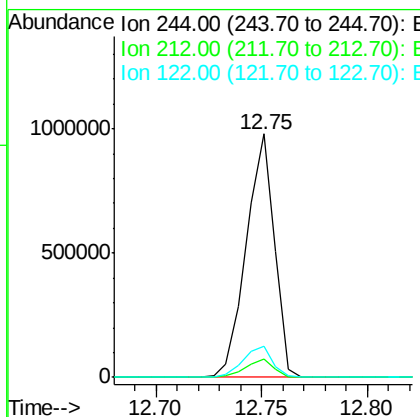
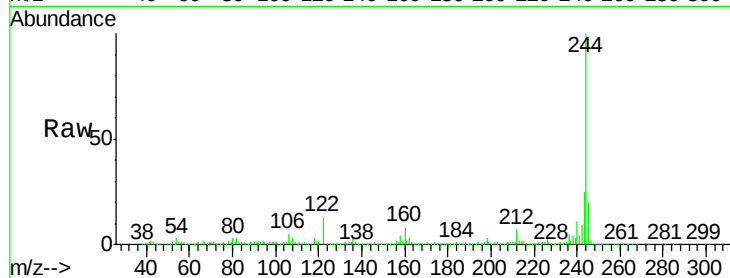
#78
 Terphenyl-d14
 Concen: 75.647 ng
 RT: 12.75 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Instrument :
 BNA_F
 ClientSampled :
 G-9-1

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	7.5	6.0	9.0
122	12.9	10.3	15.5

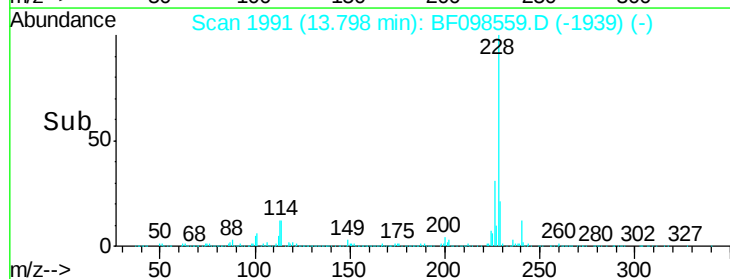
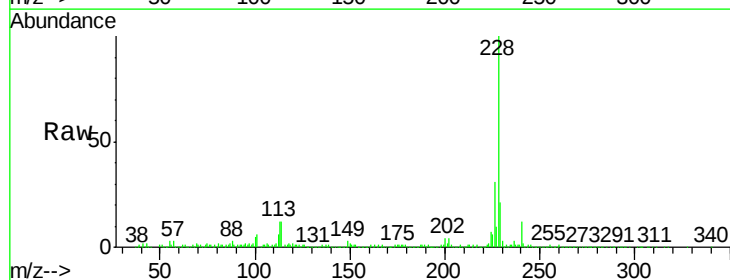
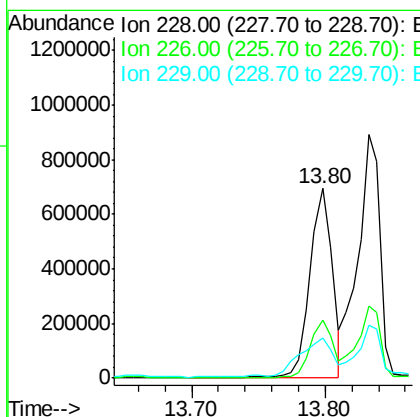
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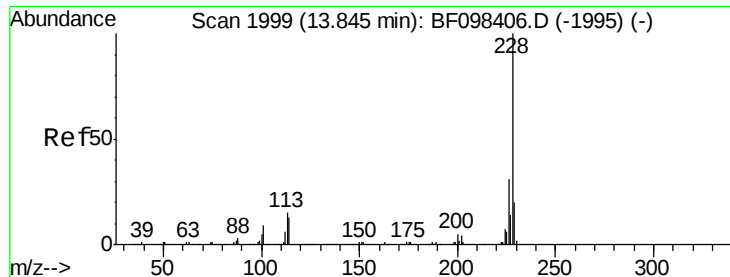
Sohil
 9/18/2017 3:33:20 PM



#80
 Benzo(a)anthracene
 Concen: 52.036 ng
 RT: 13.80 min Scan# 1991
 Delta R.T. 0.01 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.9	22.6	33.8
229	21.3	16.3	24.5





#82

Chrysene

Concen: 60.634 ng

RT: 13.83 min Scan# 1997

Delta R.T. 0.00 min

Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Instrument :

BNA_F

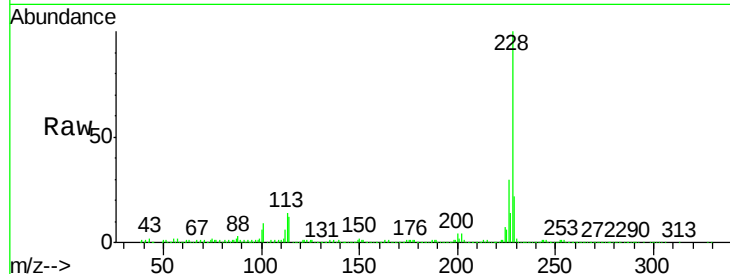
ClientSampled :

G-9-1

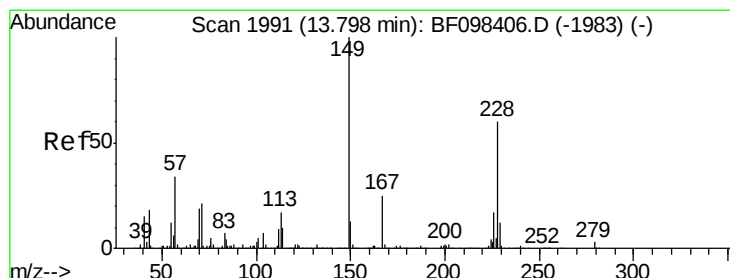
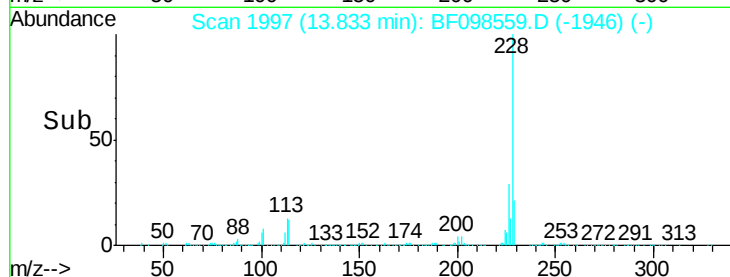
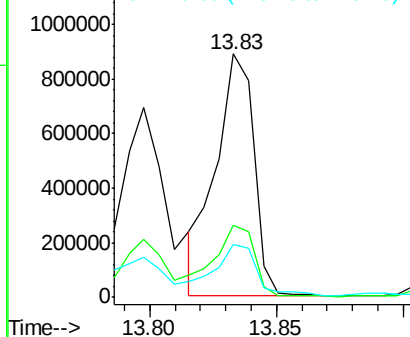
Tgt Ion:	228	Resp:	929763
Ion Ratio	Lower	Upper	
228	100		
226	29.6	24.9	37.3
229	21.9	15.8	23.6

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 9.489 ng

RT: 13.79 min Scan# 1989

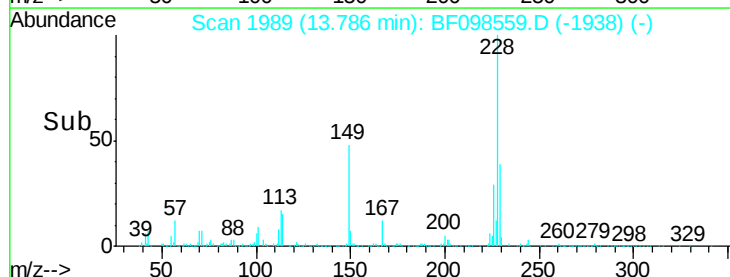
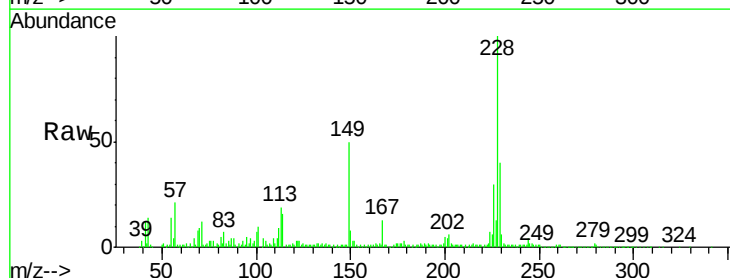
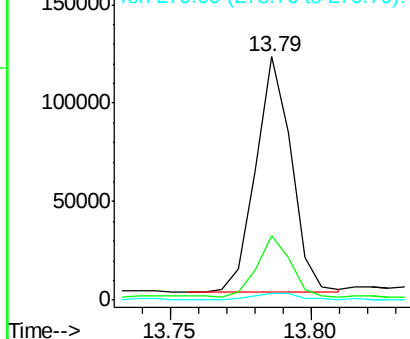
Delta R.T. 0.00 min

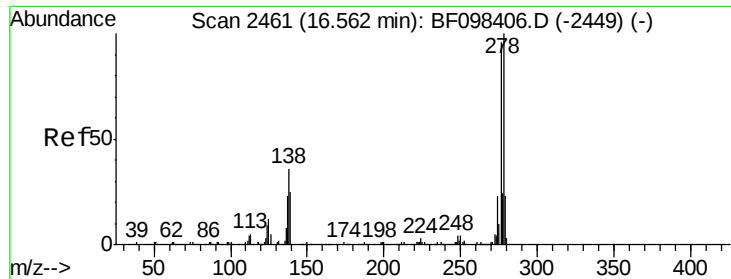
Lab File: BF098559.D

Acq: 15 Sep 2017 10:27

Tgt Ion:	149	Resp:	105448
Ion Ratio	Lower	Upper	
149	100		
167	26.2	21.0	31.4
279	3.0	1.9	2.9#

Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





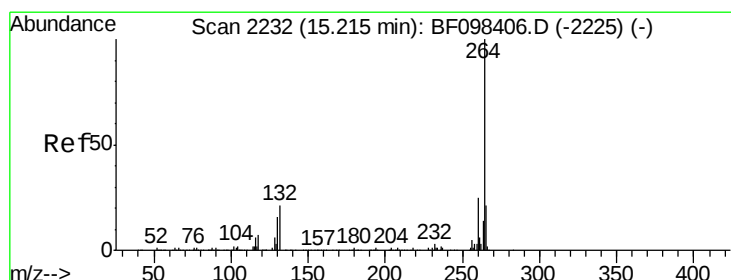
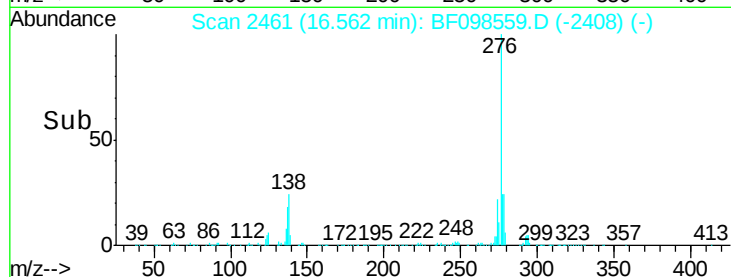
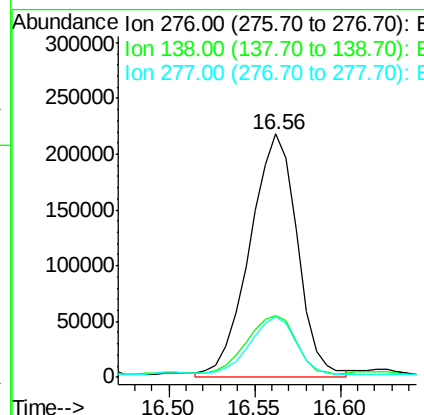
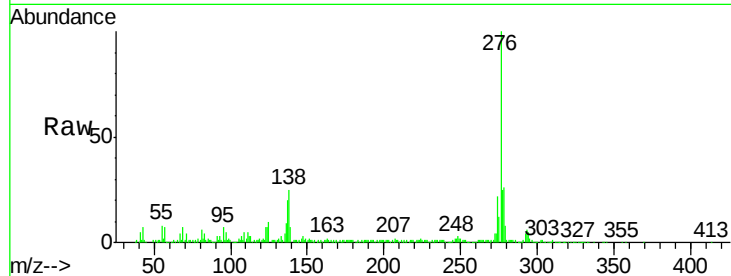
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 39.212 ng m
 RT: 16.56 min Scan# 2461
 Delta R.T. 0.01 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Instrument :
 BNA_F
 ClientSampled :
 G-9-1

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	421849		
138	2.0	27.8	41.6#	
277	1.5	20.2	30.4#	

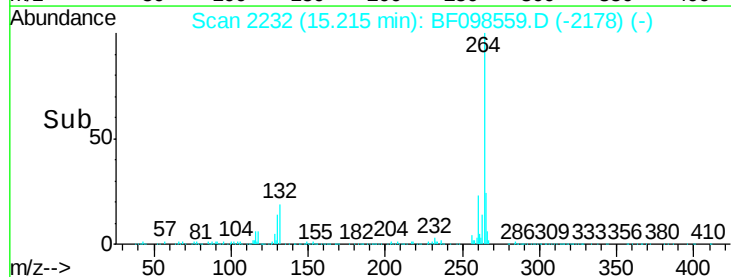
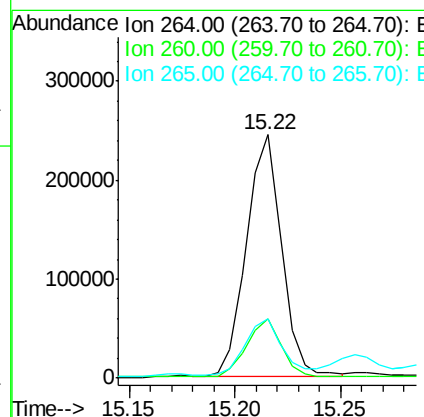
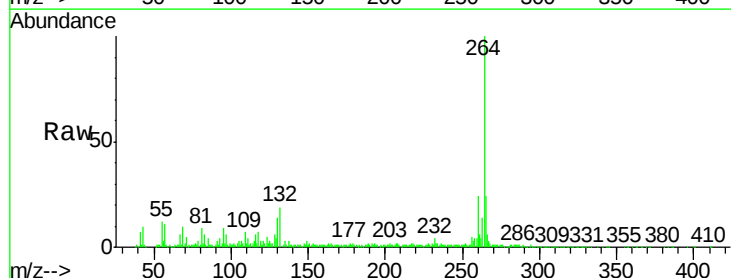
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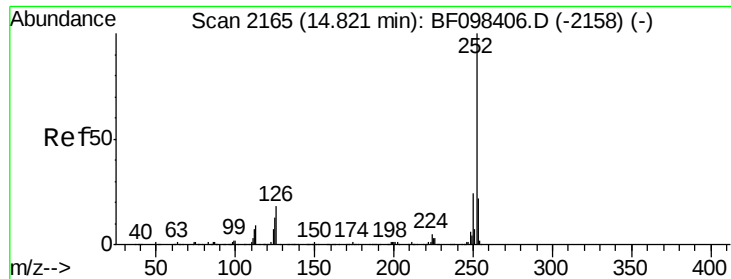
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.22 min Scan# 2232
 Delta R.T. 0.02 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	284873		
260	24.1	19.5	29.3	
265	24.3	17.2	25.8	





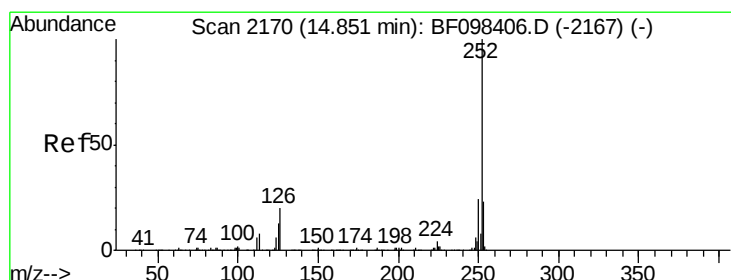
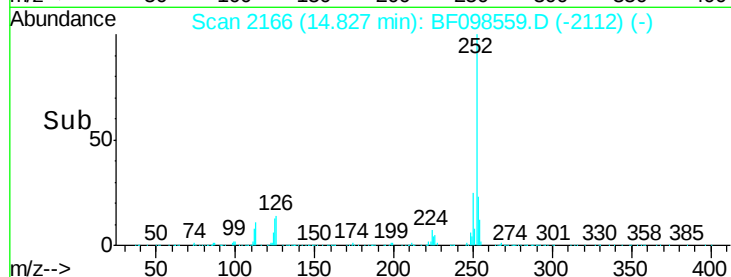
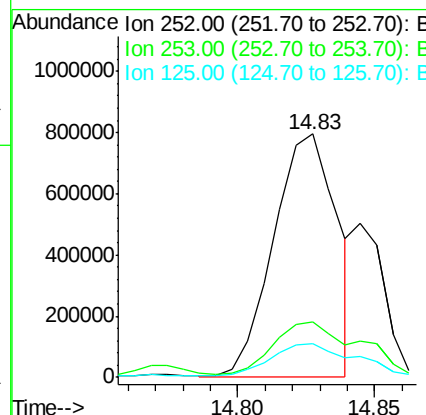
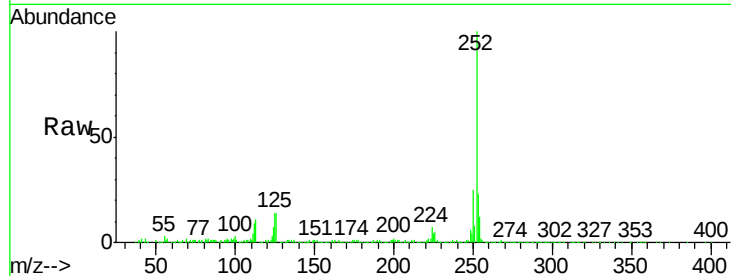
#87
Benzo(b)fluoranthene
Concen: 71.516 ng m
RT: 14.83 min Scan# 2166
Delta R.T. 0.02 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Instrument :
BNA_F
ClientSampled :
G-9-1

Tgt Ion:252 Resp: 1281003
Ion Ratio Lower Upper
252 100
253 22.9 18.1 27.1
125 13.7 9.8 14.8

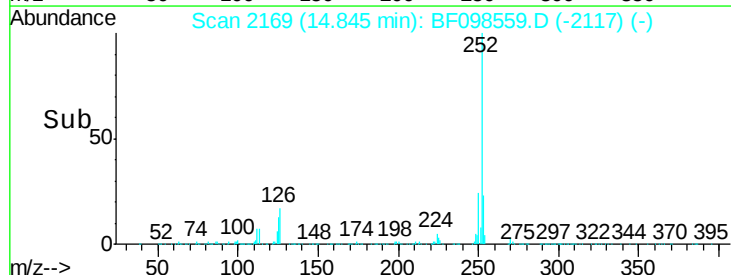
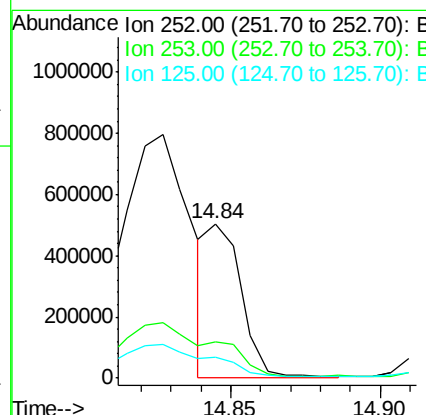
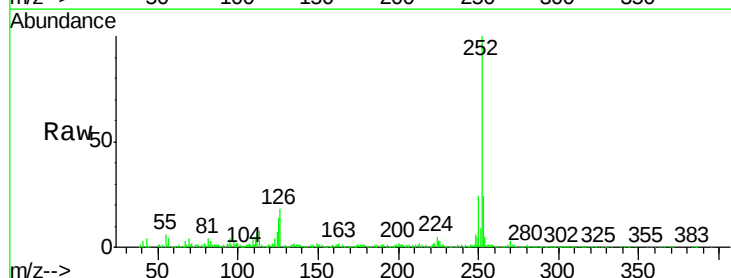
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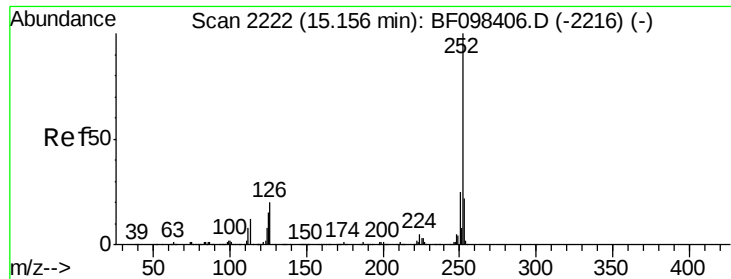
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#88
Benzo(k)fluoranthene
Concen: 23.900 ng m
RT: 14.84 min Scan# 2169
Delta R.T. 0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Tgt Ion:252 Resp: 399647
Ion Ratio Lower Upper
252 100
253 23.9 18.4 27.6
125 13.7 13.1 19.7





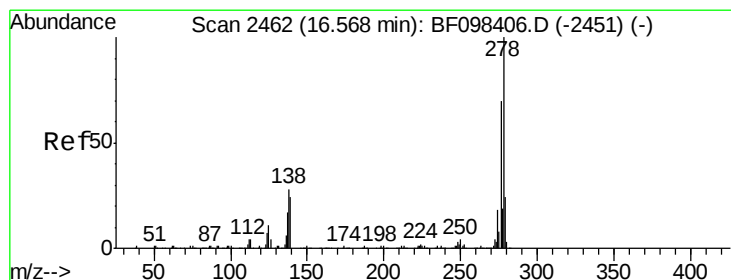
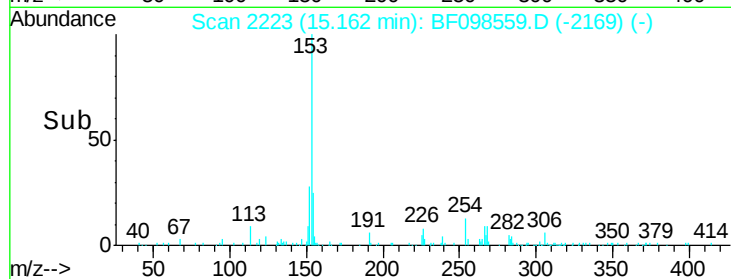
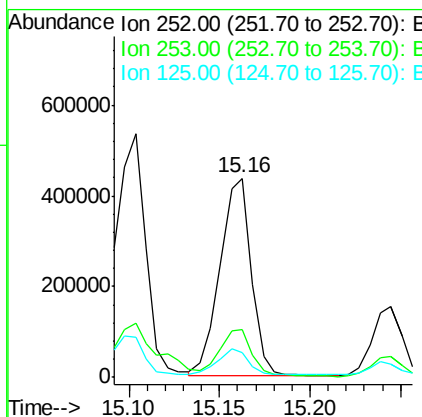
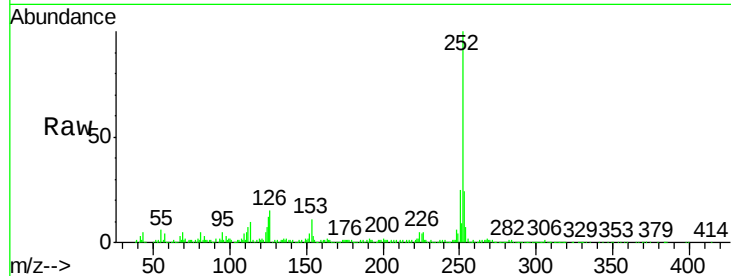
#89
Benzo(a)pyrene
Concen: 32.917 ng
RT: 15.16 min Scan# 2223
Delta R.T. 0.02 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Instrument :
BNA_F
ClientSampleId :
G-9-1

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	12.3	11.0	16.4

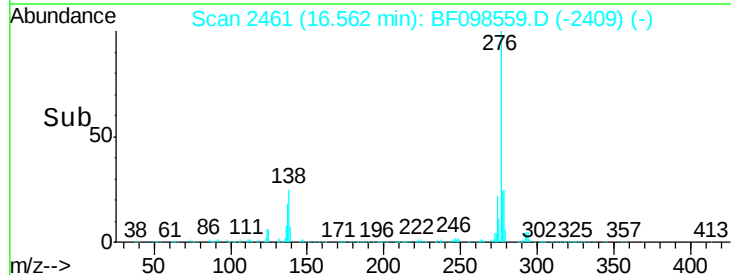
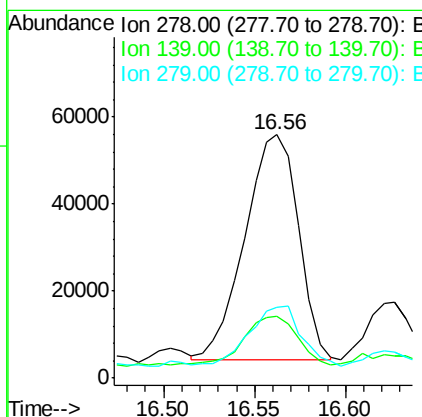
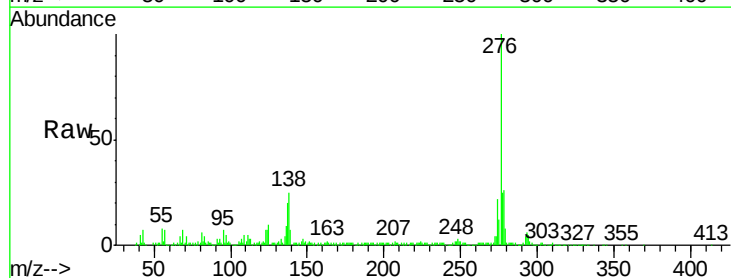
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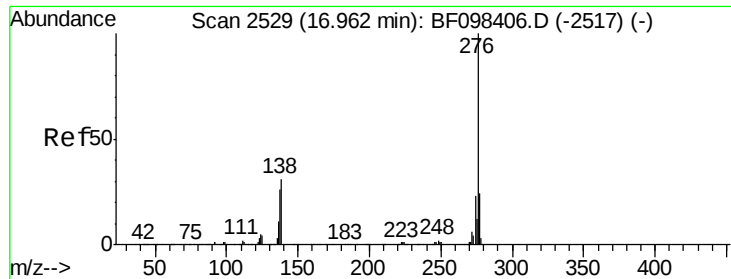
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9/18/2017 3:33:20 PM



#90
Dibenzo(a,h)anthracene
Concen: 9.137 ng m
RT: 16.56 min Scan# 2461
Delta R.T. 0.01 min
Lab File: BF098559.D
Acq: 15 Sep 2017 10:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.6	16.6	24.8#
279	29.3	19.3	28.9#





#91
 Benzo(g,h,i)perylene
 Concen: 30.158 ng
 RT: 16.97 min Scan# 2530
 Delta R.T. 0.02 min
 Lab File: BF098559.D
 Acq: 15 Sep 2017 10:27

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		352116		
277	25.5	18.6	28.0		
138	26.9	25.4	38.0		

Manual Integrations
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