

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
 Data File : BF098566.D
 Acq On : 15 Sep 2017 13:43
 Operator : SJ/JU
 Sample : I5159-06DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1DL

Manual Integrations
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Quant Time: Sep 15 15:10:13 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	125106	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	502017	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	207391	20.00	ng	0.00
63) Phenanthrene-d10	11.16	188	317897	20.00	ng	0.00
75) Chrysene-d12	13.80	240	248978	20.00	ng	0.00
86) Perylene-d12	15.21	264	264517	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	508072	60.04	ng	0.00
7) Phenol-d6	6.30	99	624633	58.14	ng	0.00
23) Nitrobenzene-d5	7.21	82	373927	41.53	ng	-0.01
41) 2,4,6-Tribromophenol	10.47	330	90594	65.45	ng	0.00
44) 2-Fluorobiphenyl	9.00	172	678764	55.47	ng	0.00
78) Terphenyl-d14	12.75	244	437068	37.89	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.95	128	180284	7.264	ng	99
37) 2-Methylnaphthalene	8.64	142	109616	7.292	ng	99
45) 1,1'-Biphenyl	9.10	154	43155	2.325	ng	96
48) Acenaphthylene	9.54	152	81473	4.133	ng	96
49) Dimethylphthalate	9.40	163	81562	5.081	ng	98
51) Acenaphthene	9.71	154	32175	2.568	ng	98
54) Dibenzofuran	9.89	168	134803	8.167	ng	99
57) Fluorene	10.23	166	35535	2.601	ng	98
70) Phenanthrene	11.19	178	400466	23.763	ng	98
71) Anthracene	11.24	178	179708	10.386	ng	96
72) Carbazole	11.40	167	68802	4.267	ng	97
74) Fluoranthene	12.37	202	836564	49.587	ng	98
77) Pyrene	12.60	202	776654	39.542	ng	99
80) Benzo(a)anthracene	13.79	228	428496	29.355	ng	98
82) Chrysene	13.83	228	476641	32.303	ng	98
83) Bis(2-ethylhexyl)phthalate	13.79	149	48686	4.553	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.54	276	177841m	17.179	ng	
87) Benzo(b)fluoranthene	14.82	252	692071m	41.611	ng	
88) Benzo(k)fluoranthene	14.84	252	167839m	10.809	ng	
89) Benzo(a)pyrene	15.15	252	257962	17.409	ng	97
90) Dibenzo(a,h)anthracene	16.55	278	51509m	4.779	ng	
91) Benzo(g,h,i)perylene	16.95	276	154154	14.219	ng	95

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

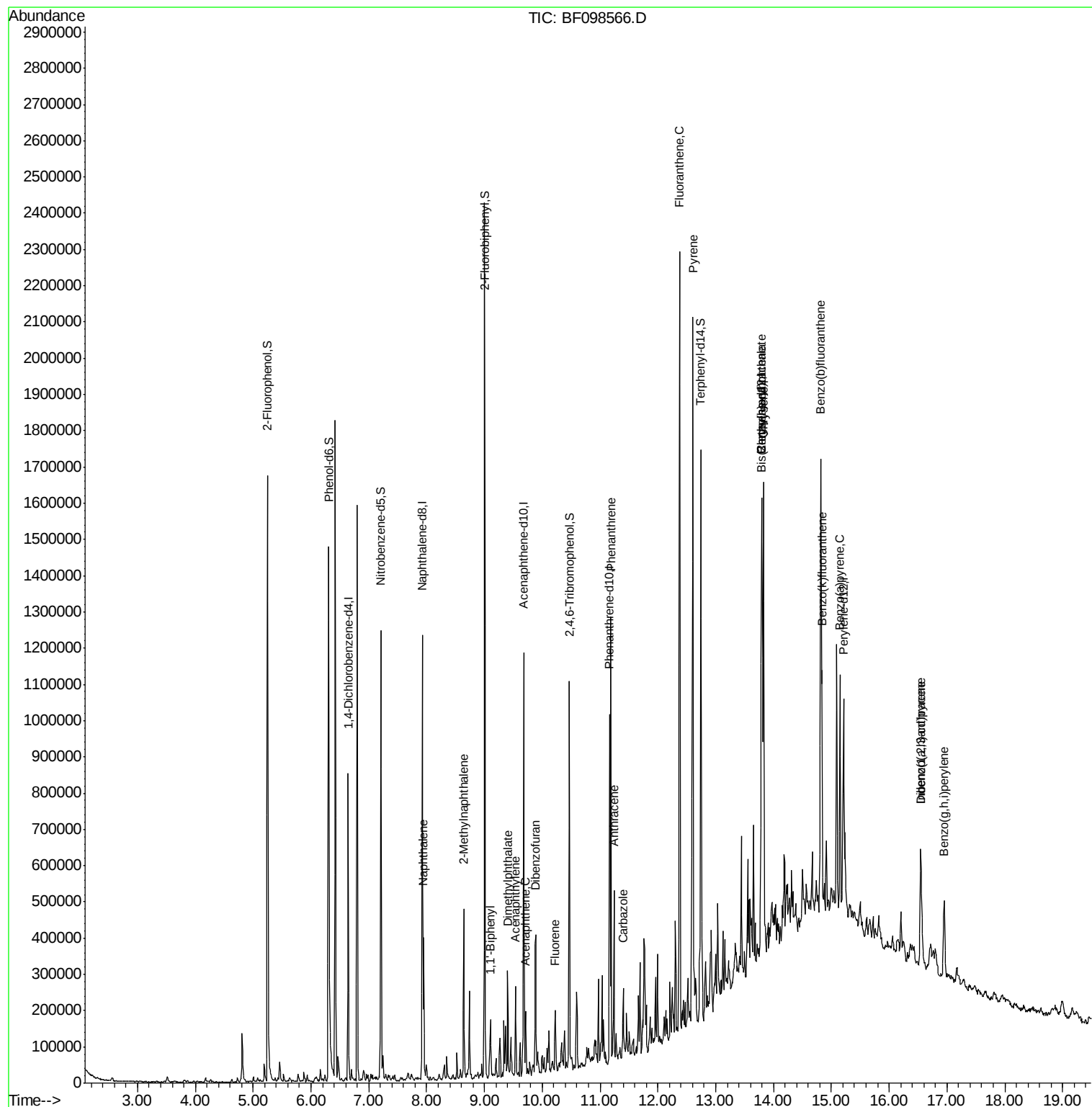
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098566.D
Acq On : 15 Sep 2017 13:43
Operator : SJ/JU
Sample : I5159-06DL 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

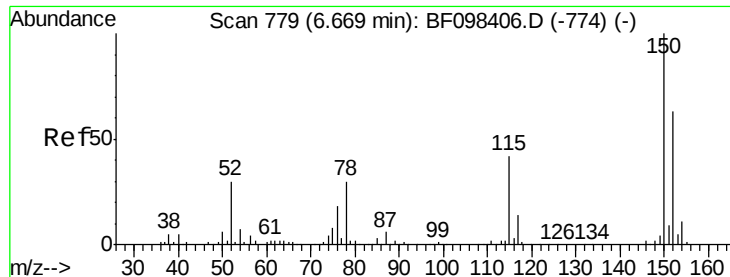
Instrument :
BNA_F
ClientSampleId :
G-9-1DL

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Quant Time: Sep 15 15:10:13 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
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#1

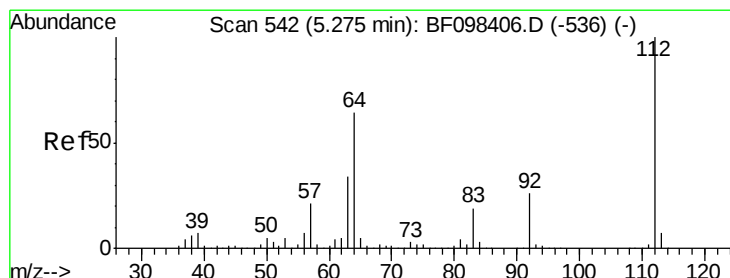
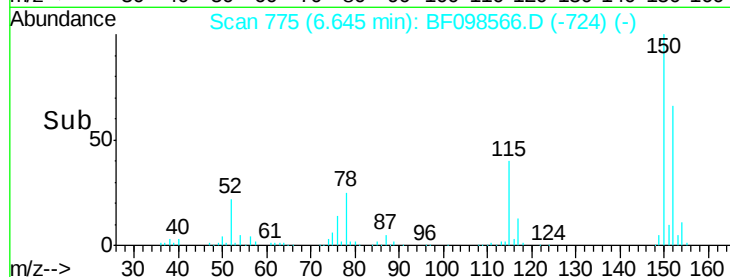
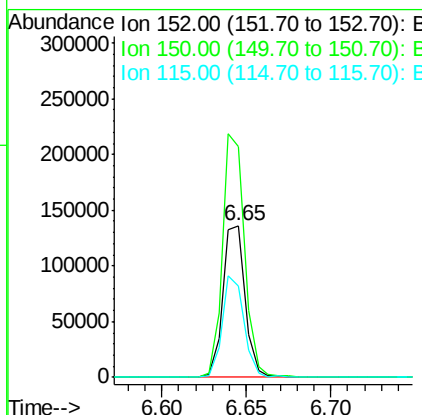
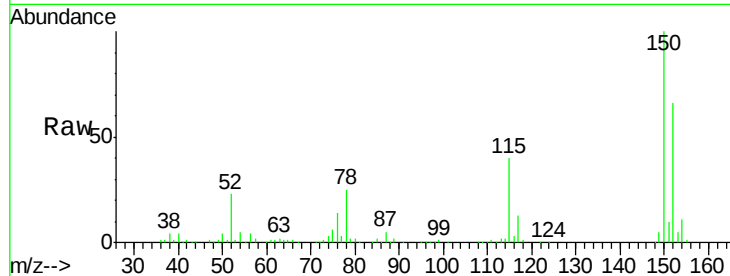
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.65 min Scan# 775
 Delta R.T. 0.00 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.9	126.2	189.2
115	60.6	52.2	78.2

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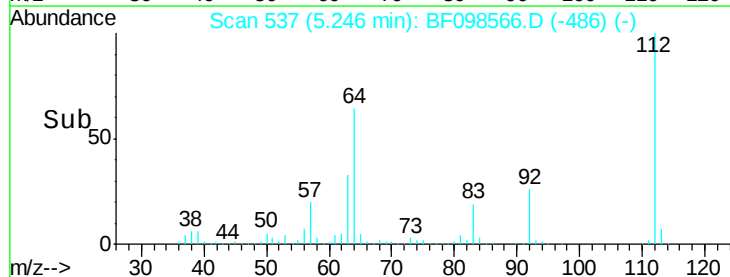
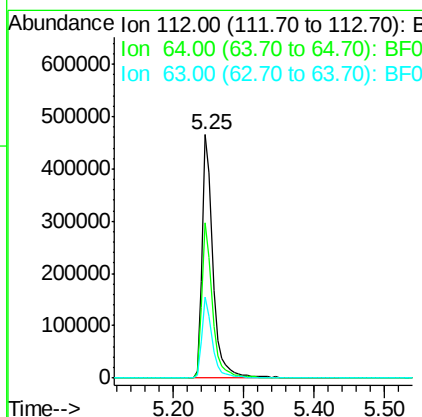
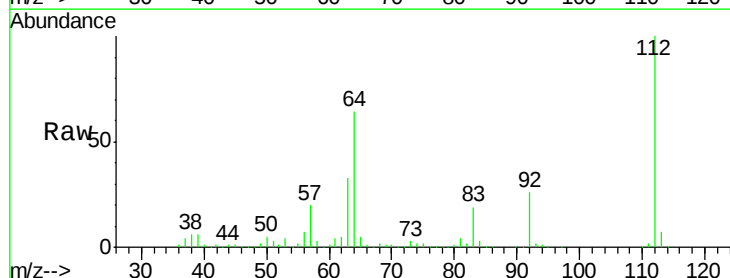
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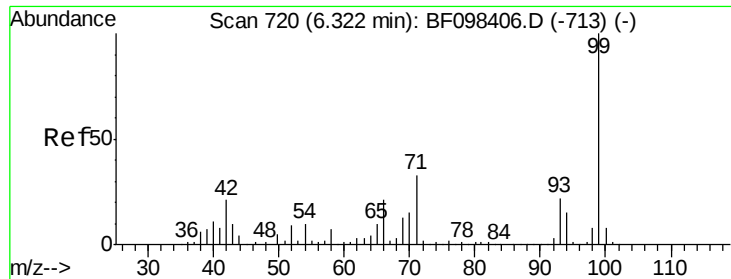


#5

2-Fluorophenol
 Concen: 60.045 ng
 RT: 5.25 min Scan# 537
 Delta R.T. 0.00 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.0	46.0	69.0
63	33.1	23.4	35.0





#7

Phenol-d6

Concen: 58.142 ng

RT: 6.30 min Scan# 717

Delta R.T. 0.01 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Instrument :

BNA_F

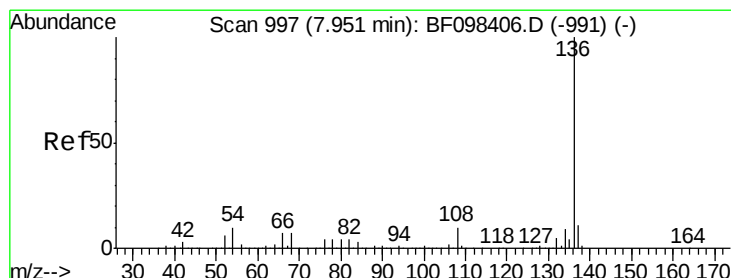
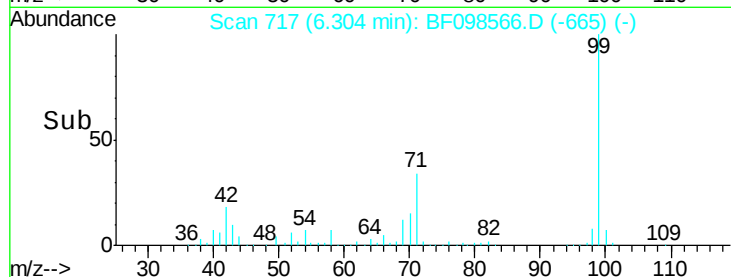
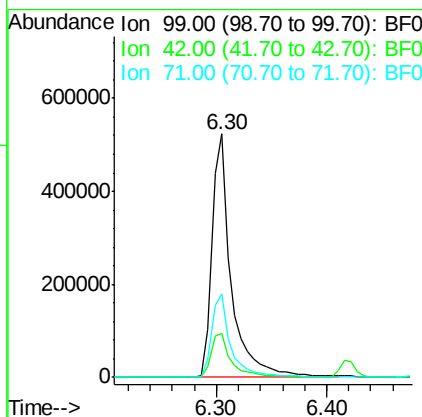
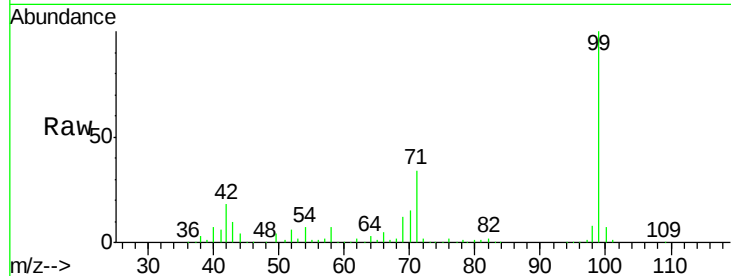
ClientSampleId :

G-9-1DL

Tgt Ion:	99	Resp:	624633
Ion Ratio	Lower	Upper	
99	100		
42	18.1	13.5	20.3
71	34.3	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

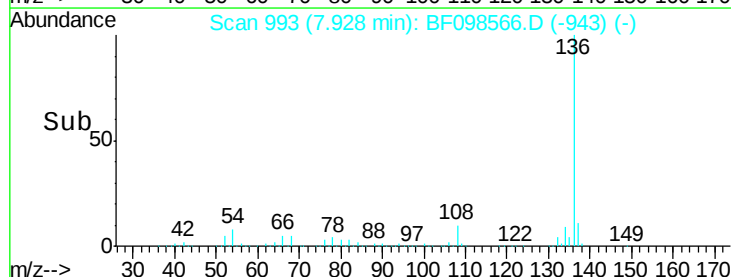
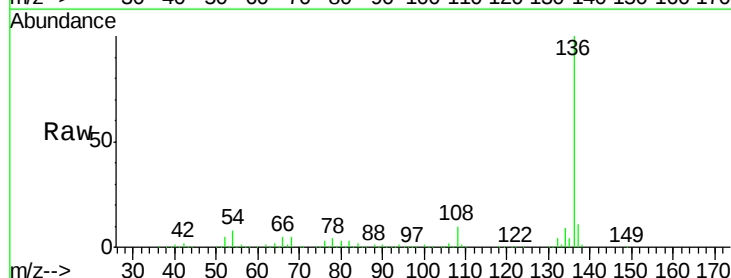
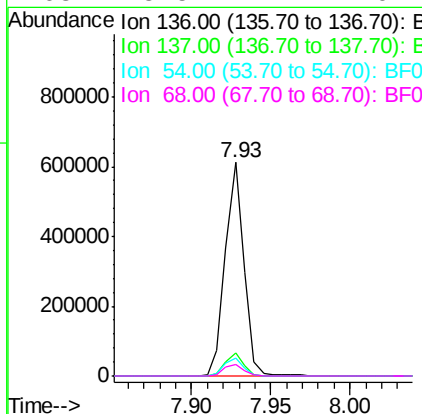
RT: 7.93 min Scan# 993

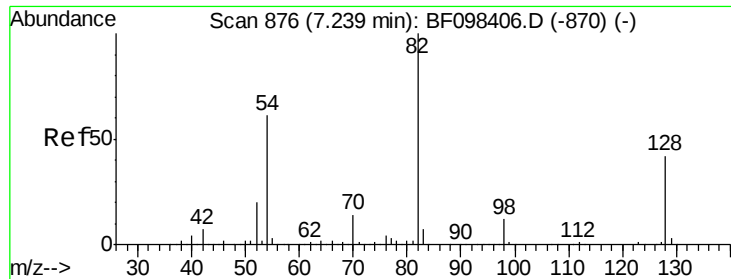
Delta R.T. -0.01 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Tgt Ion:	136	Resp:	502017
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.5	12.7
54	8.4	4.9	7.3#
68	5.5	4.1	6.1





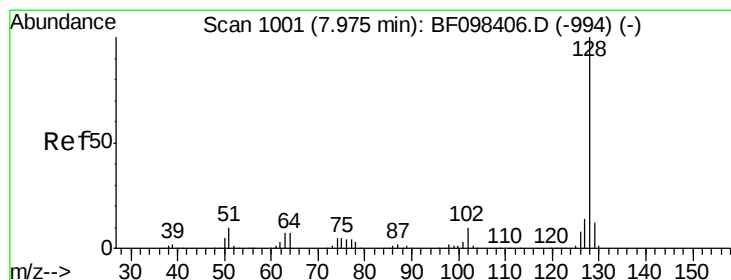
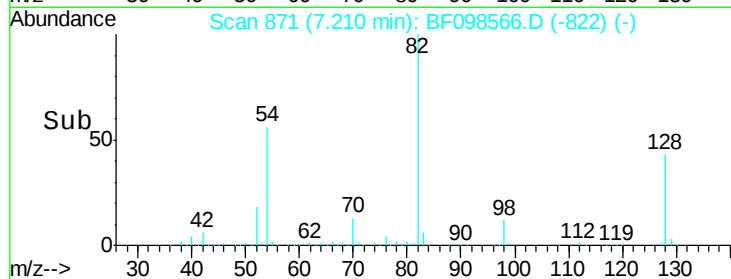
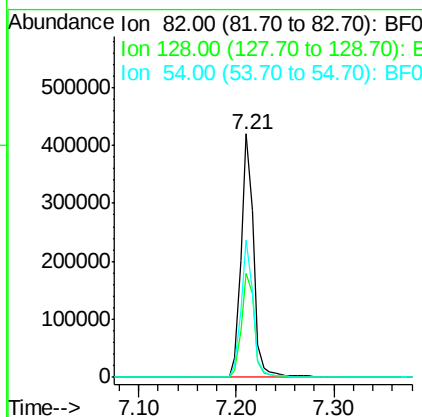
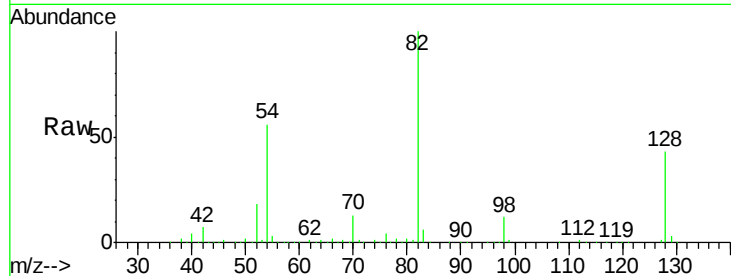
#23
Nitrobenzene-d5
Concen: 41.525 ng
RT: 7.21 min Scan# 871
Delta R.T. -0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Instrument :
BNA_F
ClientSampled :
G-9-1DL

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	373927		
128	42.6	34.0	51.0	
54	56.3	42.2	63.2	

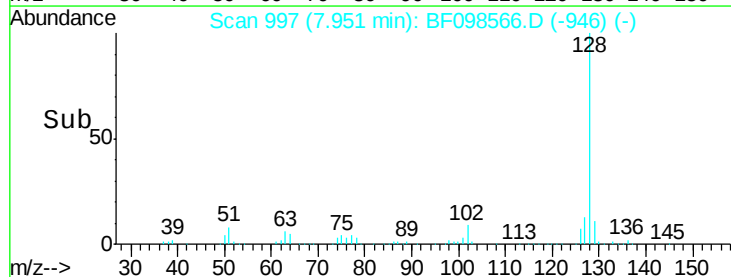
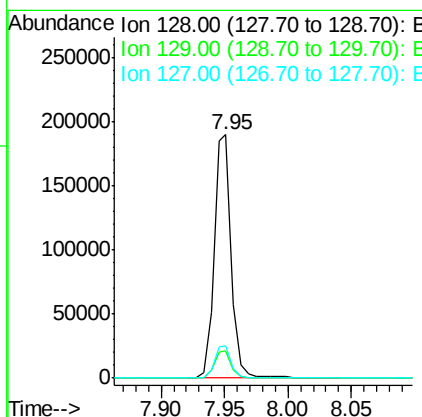
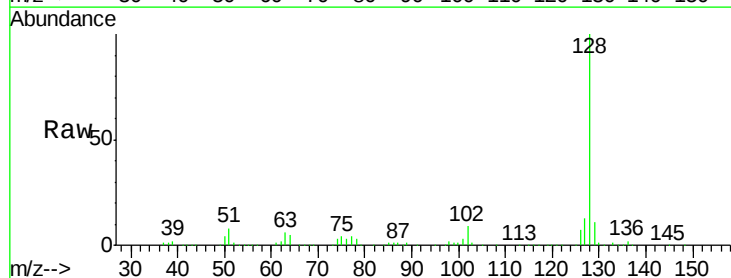
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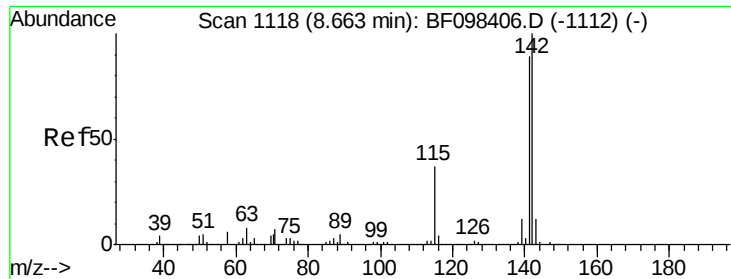
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#31
Naphthalene
Concen: 7.264 ng
RT: 7.95 min Scan# 997
Delta R.T. 0.00 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	180284		
129	11.0	9.0	13.6	
127	13.2	10.8	16.2	





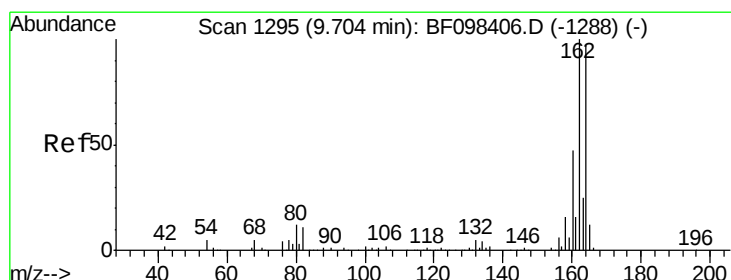
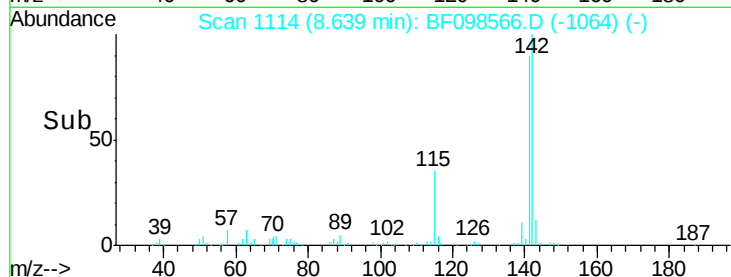
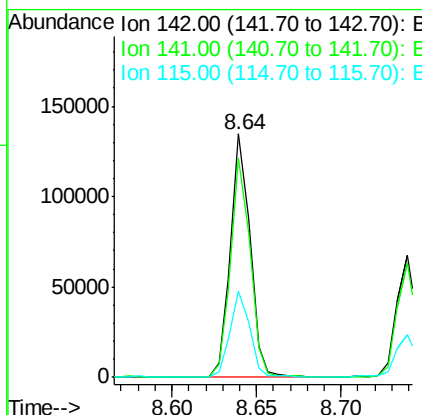
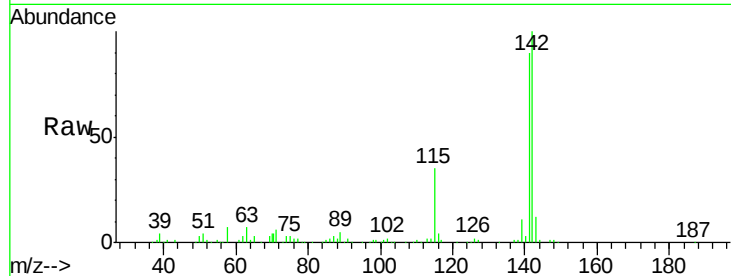
#37
2-Methylnaphthalene
Concen: 7.292 ng
RT: 8.64 min Scan# 1114
Delta R.T. -0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Instrument :
BNA_F
ClientSampleId :
G-9-1DL

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	109616		
141	89.9	71.3	106.9	
115	35.2	27.1	40.7	

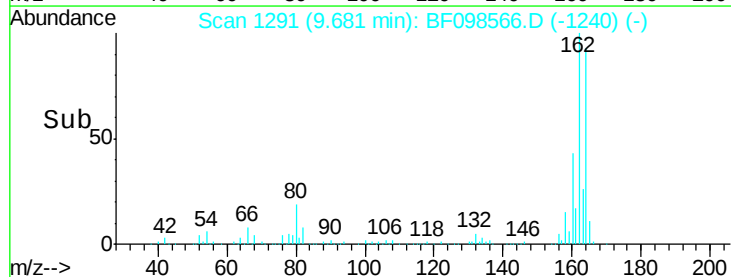
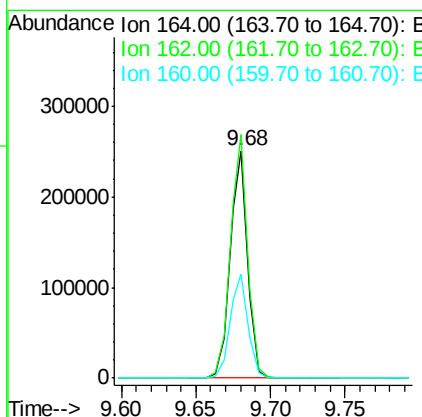
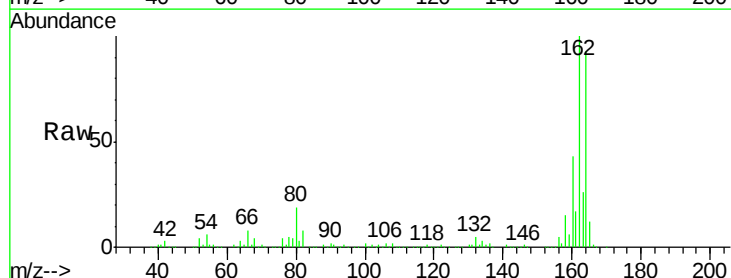
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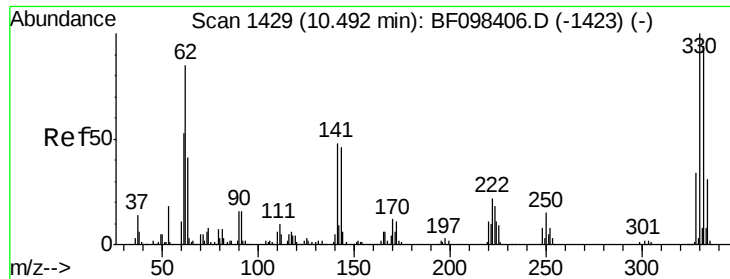
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.68 min Scan# 1291
Delta R.T. 0.00 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	207391		
162	107.3	82.6	123.8	
160	46.1	36.2	54.2	





#41

2,4,6-Tribromophenol

Concen: 65.450 ng

RT: 10.47 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Instrument :

BNA_F

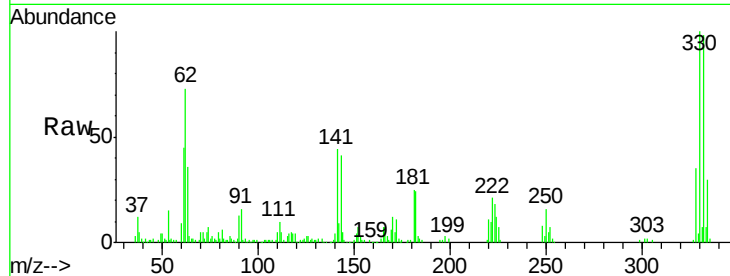
ClientSampled :

G-9-1DL

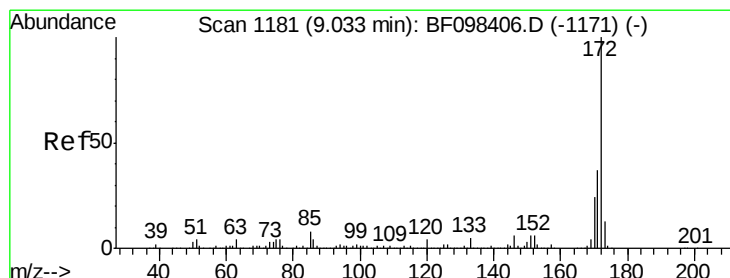
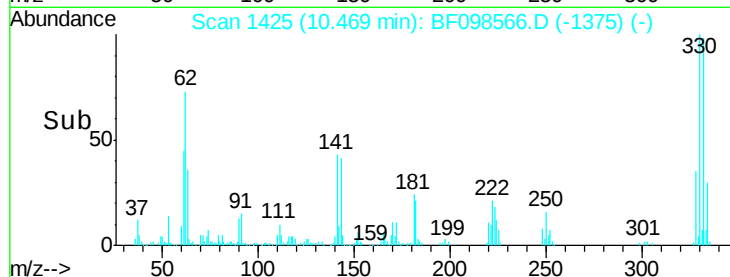
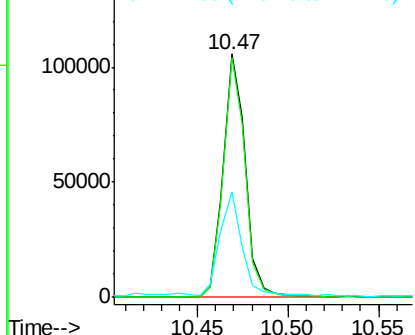
Tgt Ion:	330	Resp:	90594
Ion Ratio	Lower	Upper	
330	100		
332	96.4	76.6	115.0
141	44.8	31.4	47.2

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



#44

2-Fluorobiphenyl

Concen: 55.472 ng

RT: 9.00 min Scan# 1176

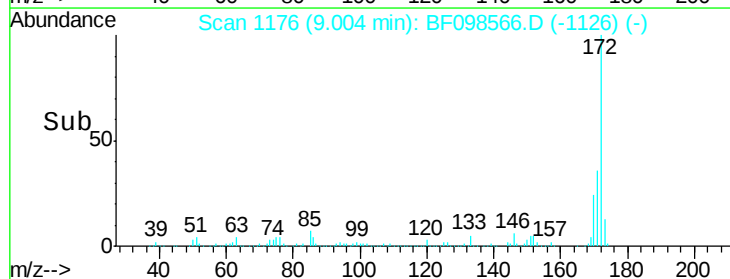
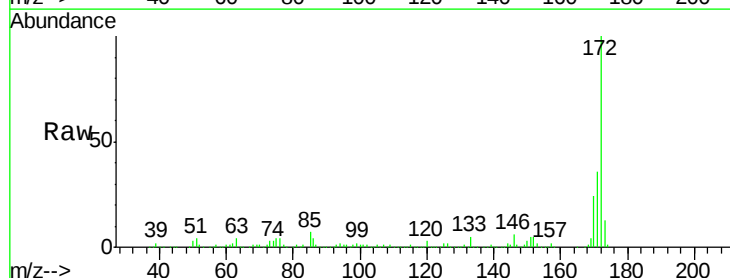
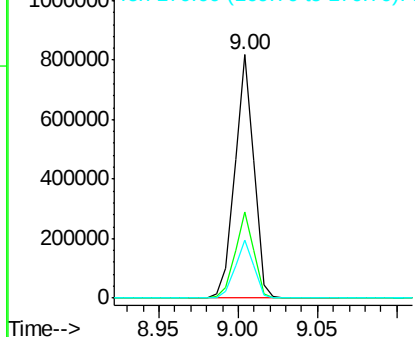
Delta R.T. -0.01 min

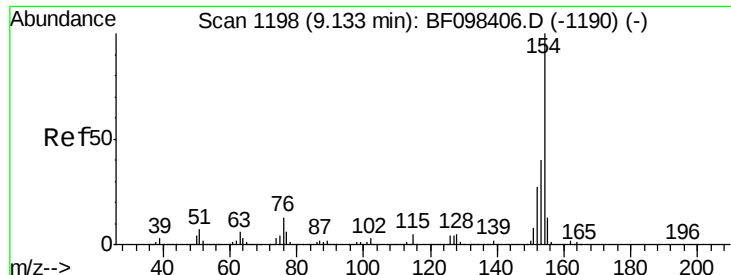
Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Tgt Ion:	172	Resp:	678764
Ion Ratio	Lower	Upper	
172	100		
171	35.6	29.6	44.4
170	23.8	19.8	29.8

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





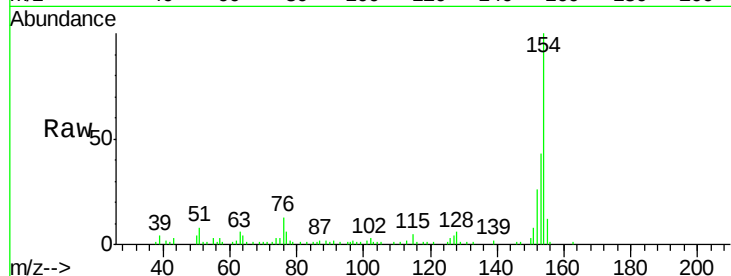
#45
 1,1'-Biphenyl
 Concen: 2.325 ng
 RT: 9.10 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1DL

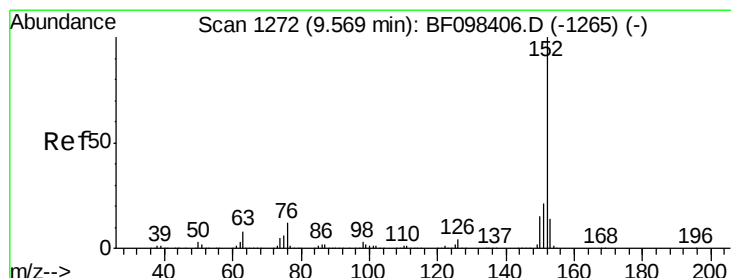
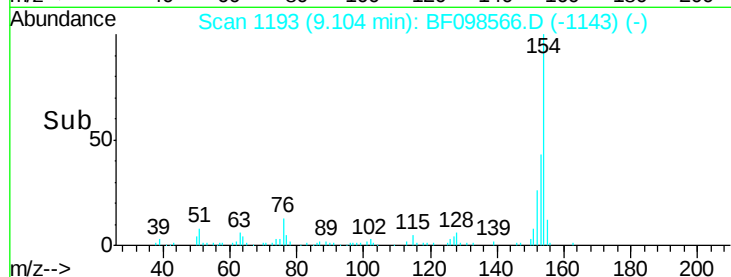
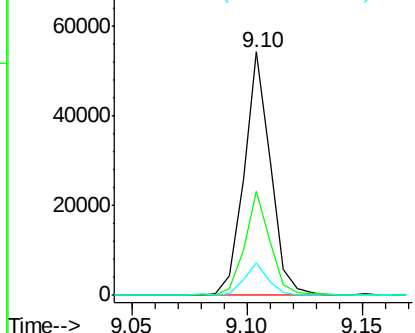
Tgt Ion:	154	Resp:	43155
Ion Ratio	Lower	Upper	
154	100		
153	42.8	21.2	61.2
76	13.1	0.0	29.9

Manual Integrations
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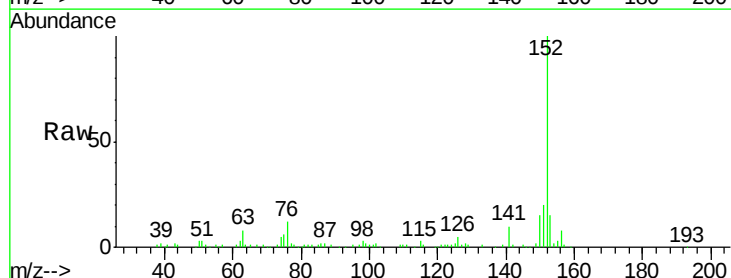


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

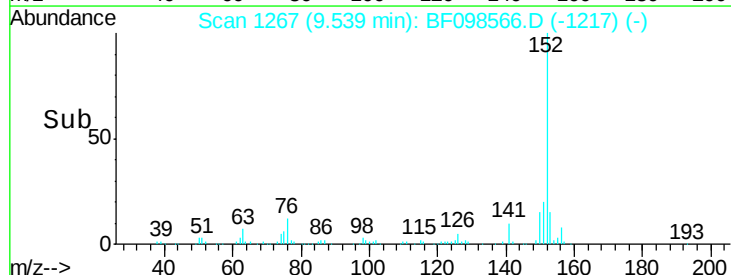
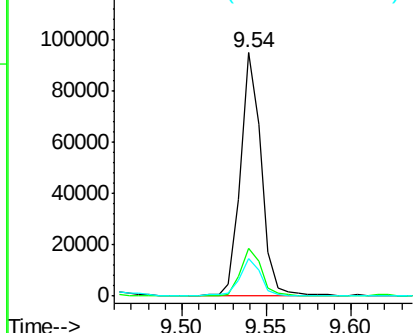


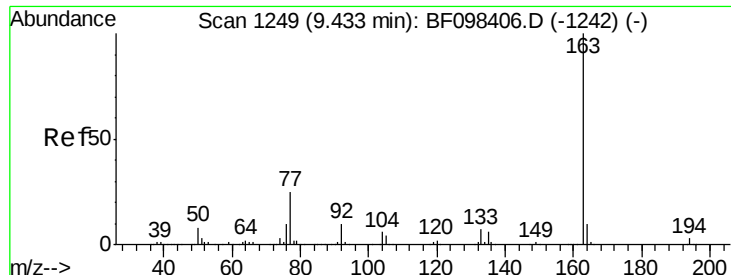
#48
 Acenaphthylene
 Concen: 4.133 ng
 RT: 9.54 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Tgt Ion:	152	Resp:	81473
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.8	25.2
153	15.4	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





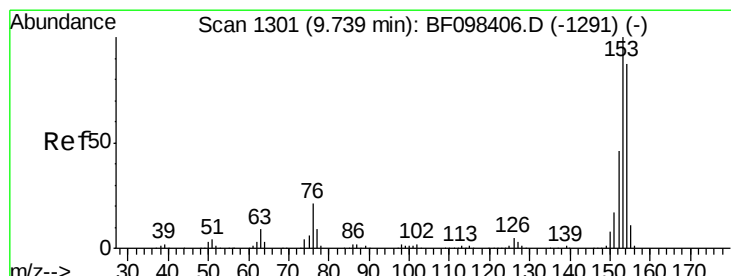
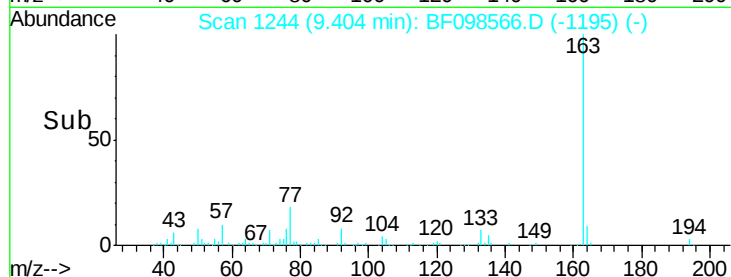
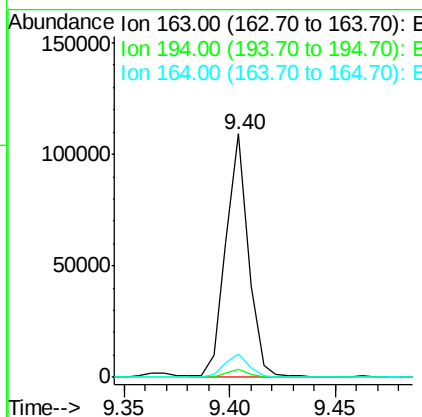
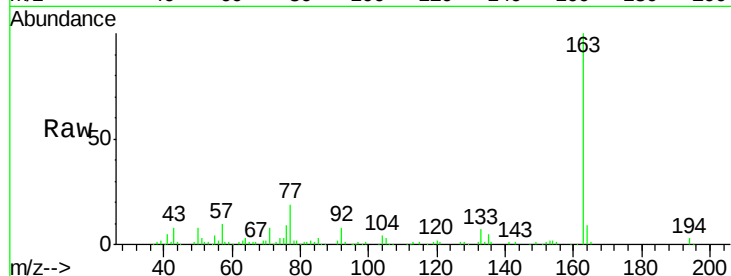
#49
 Dimethylphthalate
 Concen: 5.081 ng
 RT: 9.40 min Scan# 1244
 Delta R.T. -0.01 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Instrument :
 BNA_F
 ClientSampled :
 G-9-1DL

Tgt Ion:	163	Resp:	81562
Ion Ratio	Lower	Upper	
163	100		
194	3.2	2.6	4.0
164	9.4	8.4	12.6

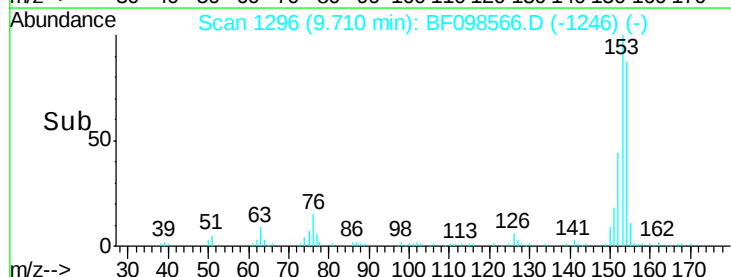
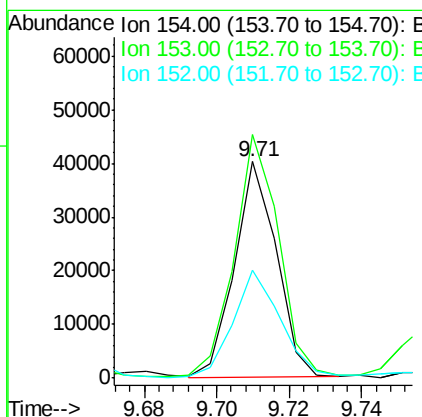
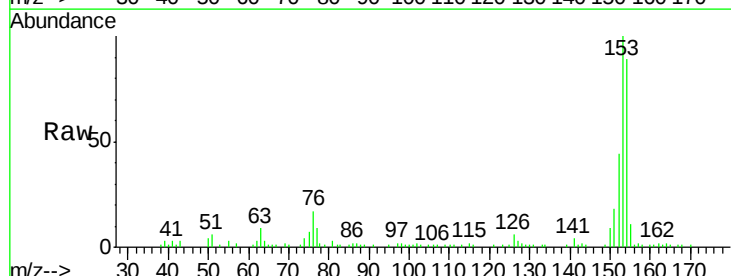
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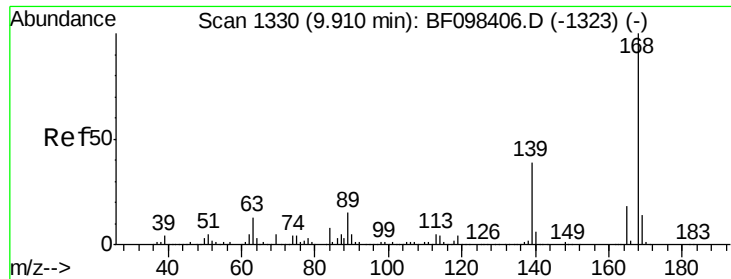
Sohil
 9/18/2017 3:33:32 PM



#51
 Acenaphthene
 Concen: 2.568 ng
 RT: 9.71 min Scan# 1296
 Delta R.T. -0.01 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Tgt Ion:	154	Resp:	32175
Ion Ratio	Lower	Upper	
154	100		
153	112.7	90.5	135.7
152	49.7	43.6	65.4





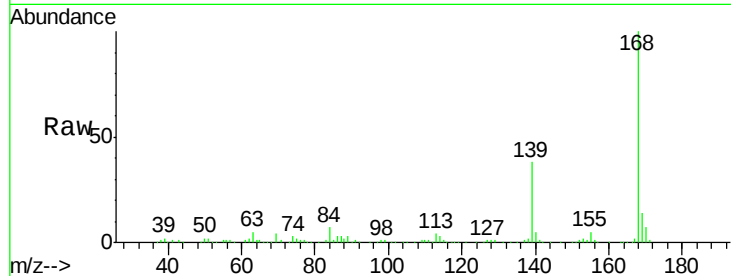
#54
Dibenzenofuran
Concen: 8.167 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Instrument :
BNA_F
ClientSampled :
G-9-1DL

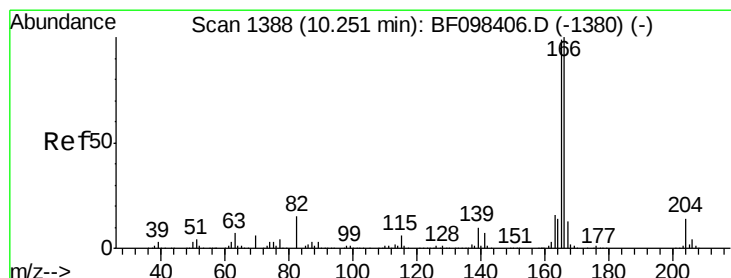
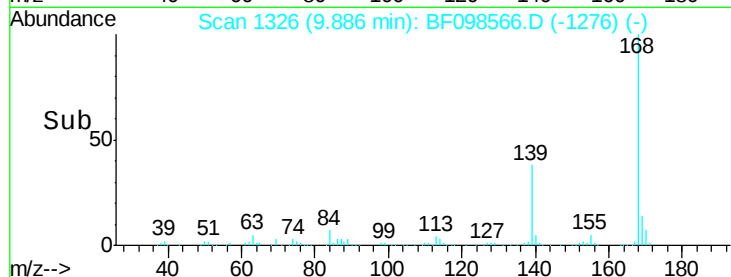
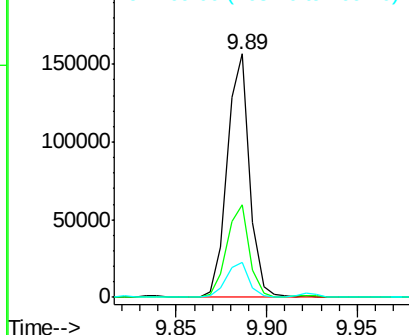
Tgt Ion	Ratio	Resp	Lower	Upper
168	100	134803		
139	37.9	30.6	45.8	
169	14.3	10.8	16.2	

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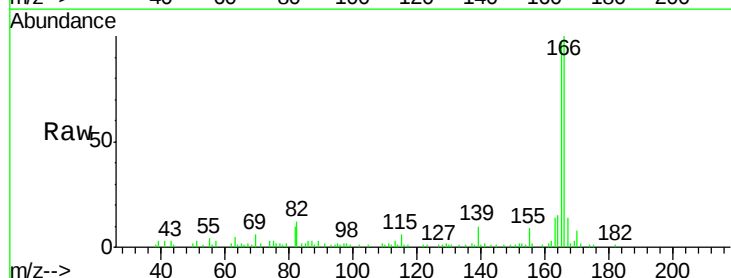


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

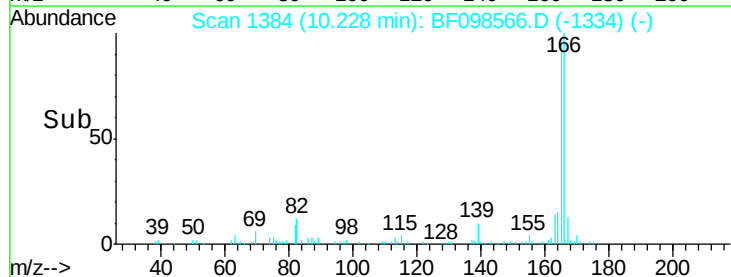
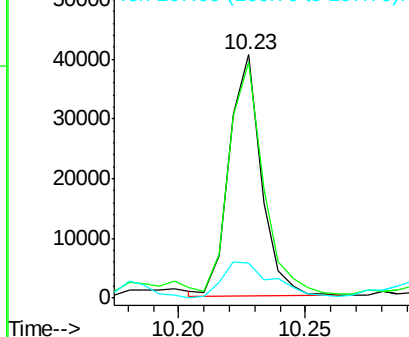


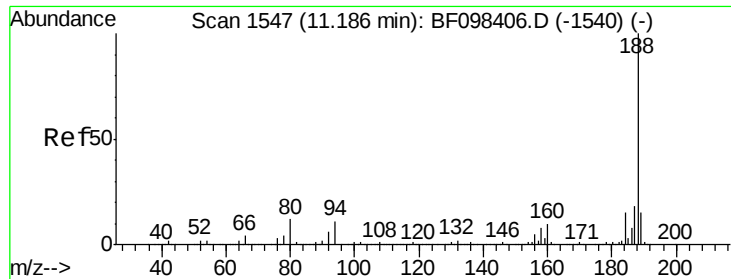
#57
Fluorene
Concen: 2.601 ng
RT: 10.23 min Scan# 1384
Delta R.T. -0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	35535		
165	96.9	78.8	118.2	
167	14.5	10.6	16.0	



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.16 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Instrument :

BNA_F

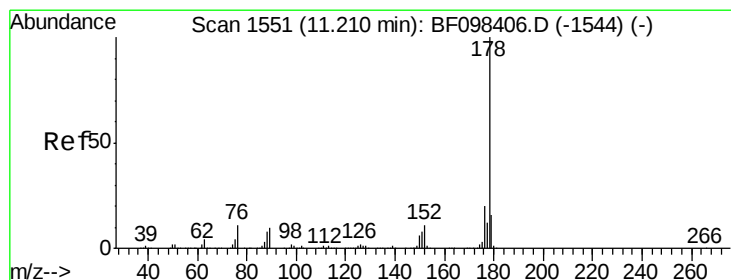
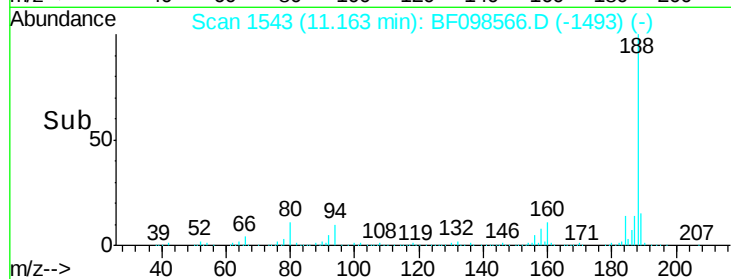
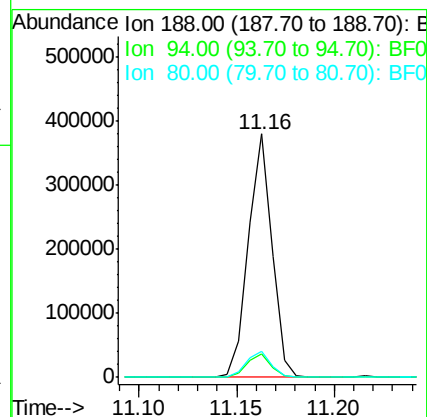
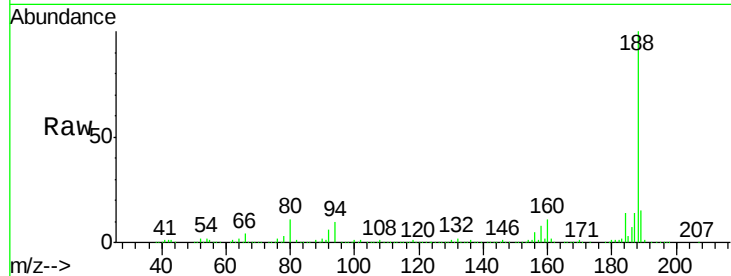
ClientSampled :

G-9-1DL

Tgt Ion:	188	Resp:	317897
Ion Ratio	Lower	Upper	
188	100		
94	9.7	9.4	14.2
80	10.6	10.2	15.2

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#70

Phenanthrene

Concen: 23.763 ng

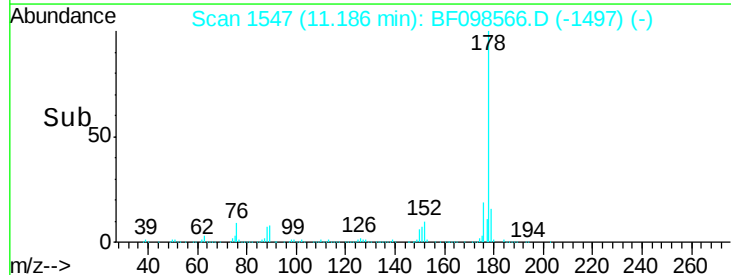
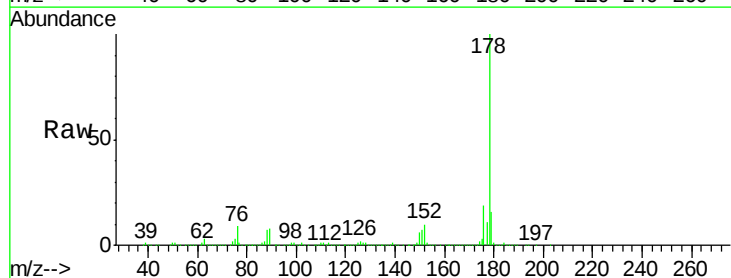
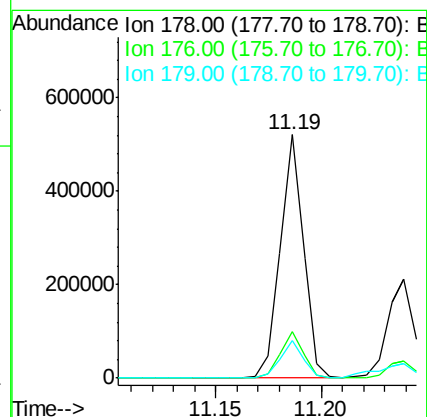
RT: 11.19 min Scan# 1547

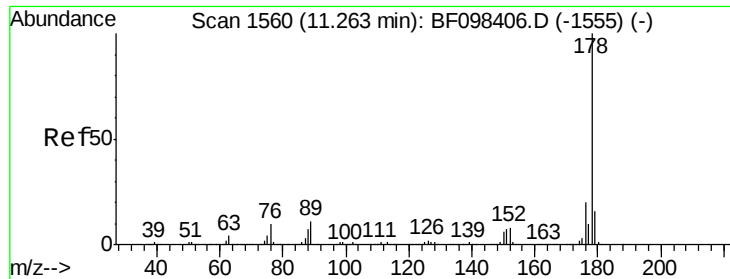
Delta R.T. -0.01 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Tgt Ion:	178	Resp:	400466
Ion Ratio	Lower	Upper	
178	100		
176	18.9	16.2	24.4
179	15.6	12.6	19.0





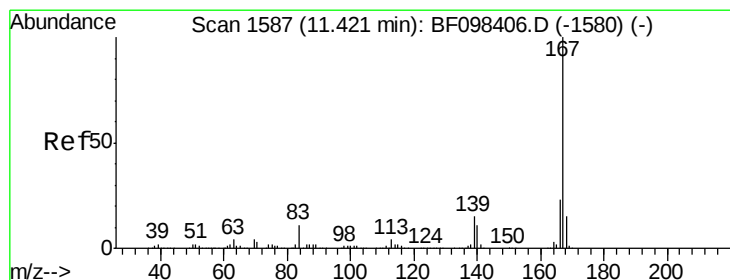
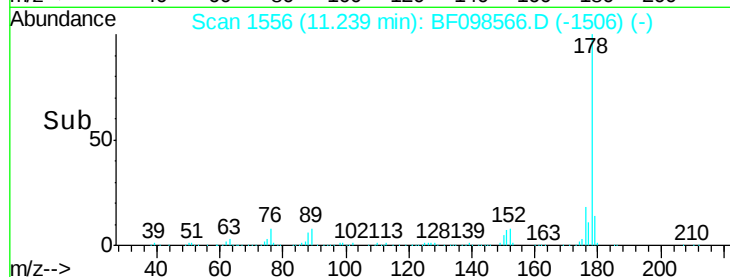
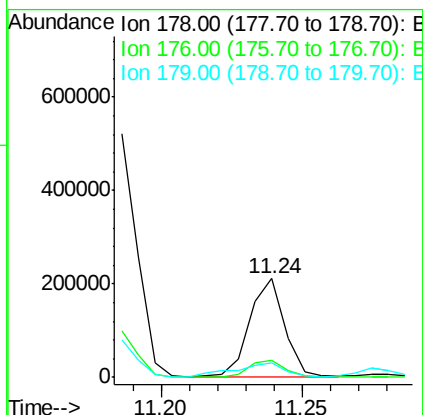
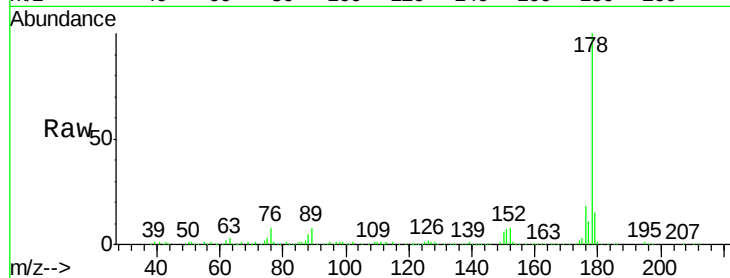
#71
 Anthracene
 Concen: 10.386 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.8	23.8
179	14.6	12.7	19.1

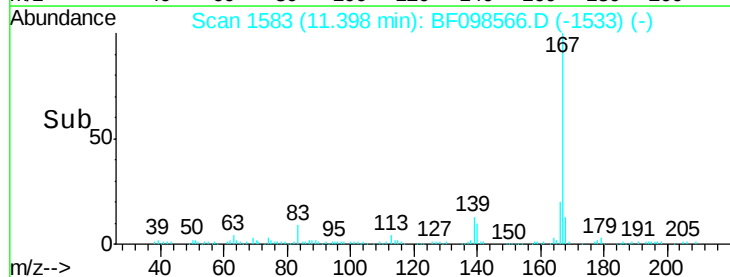
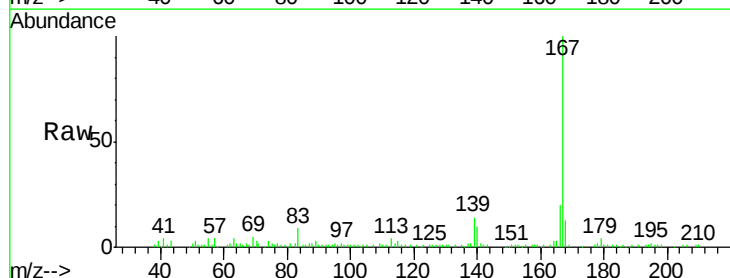
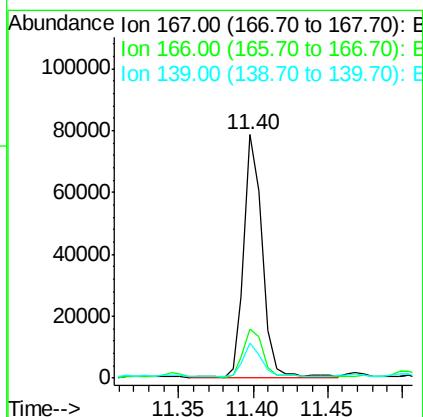
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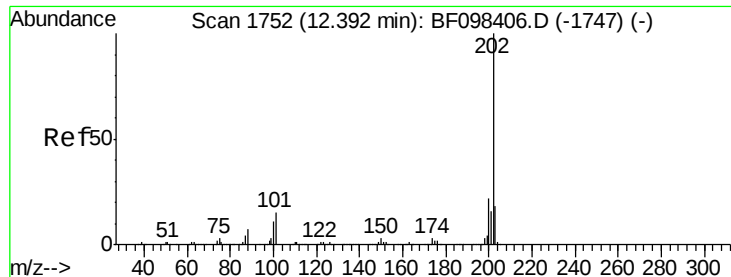
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#72
 Carbazole
 Concen: 4.267 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.3	18.1	27.1
139	14.2	11.7	17.5





#74

Fluoranthene

Concen: 49.587 ng

RT: 12.37 min Scan# 1749

Delta R.T. 0.00 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Instrument :

BNA_F

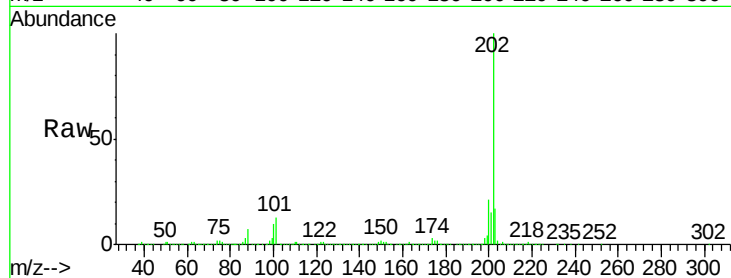
ClientSampleId :

G-9-1DL

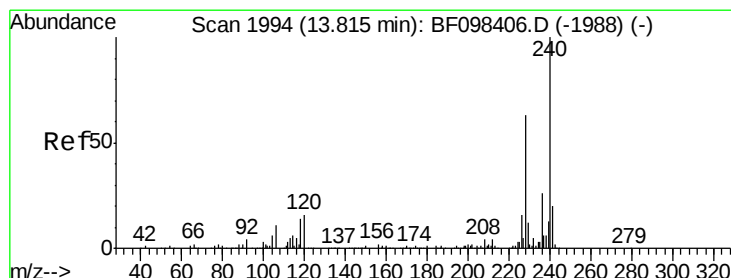
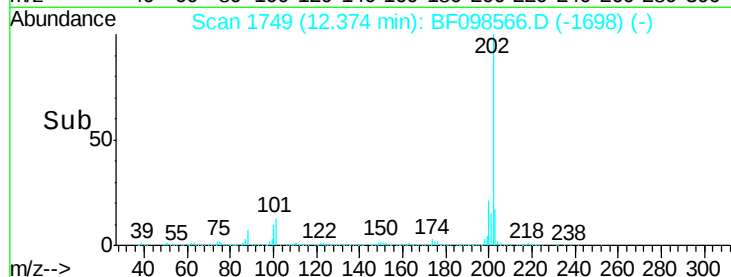
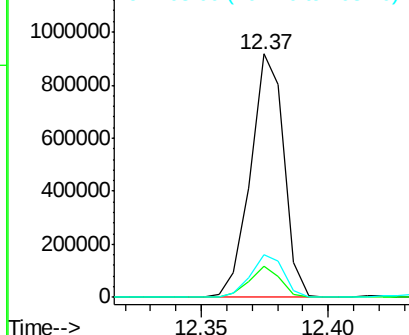
Tgt	Ion	202	Resp:	836564
Ion	Ratio	Lower	Upper	
202	100			
101	12.6	0.0	33.2	
203	17.4	0.0	38.1	

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.80 min Scan# 1992

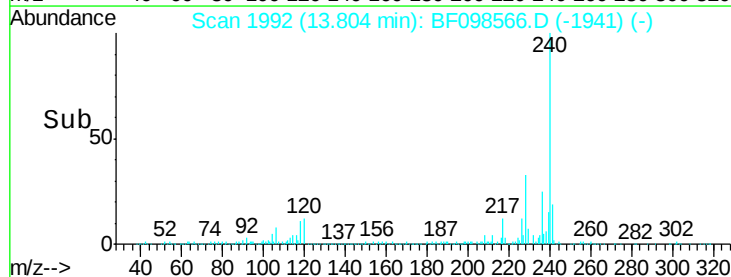
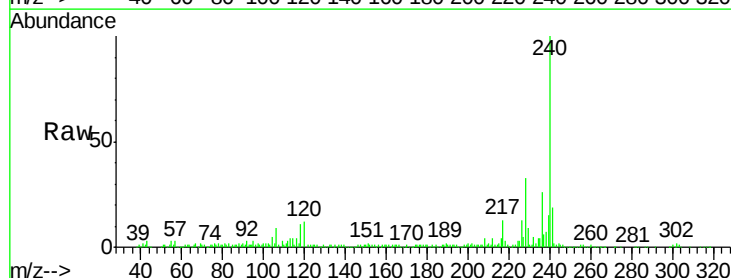
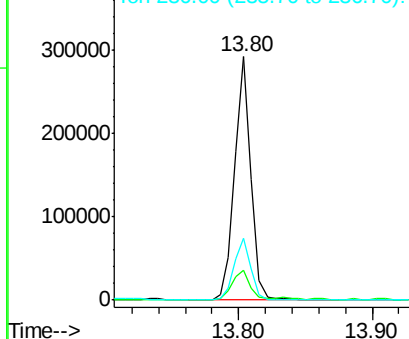
Delta R.T. 0.00 min

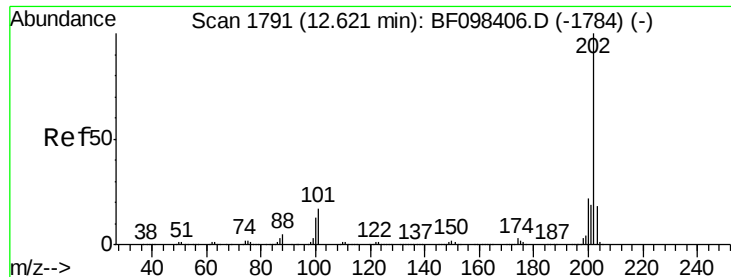
Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Tgt	Ion	240	Resp:	248978
Ion	Ratio	Lower	Upper	
240	100			
120	12.1	5.8	8.8#	
236	25.7	20.5	30.7	

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





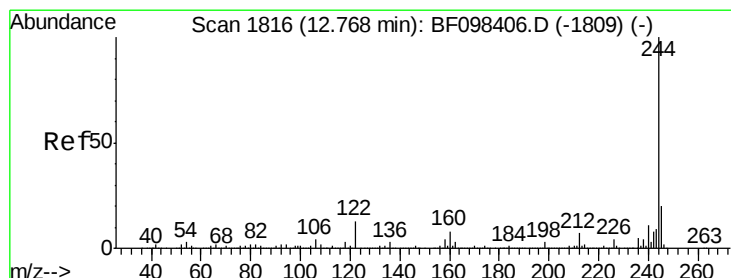
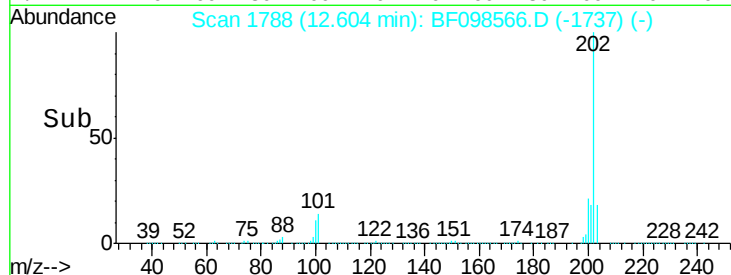
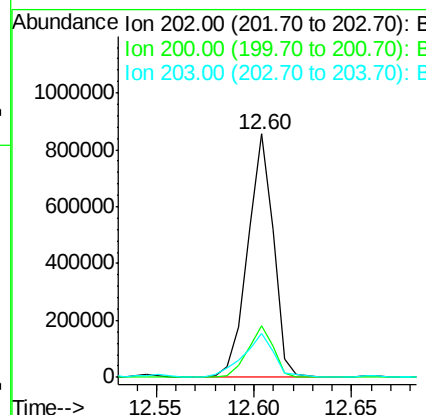
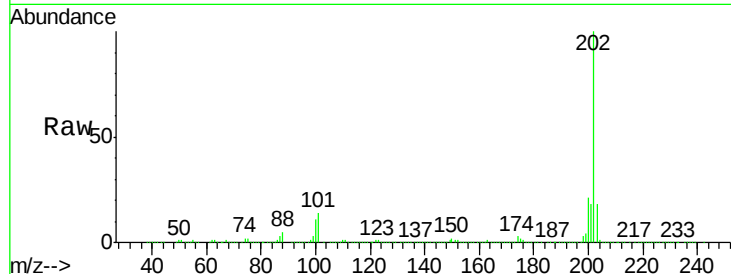
#77
 Pyrene
 Concen: 39.542 ng
 RT: 12.60 min Scan# 1788
 Delta R.T. 0.00 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Instrument :
 BNA_F
 ClientSampleID :
 G-9-1DL

Tgt Ion:	202	Resp:	776654
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.6	26.4
203	18.3	14.4	21.6

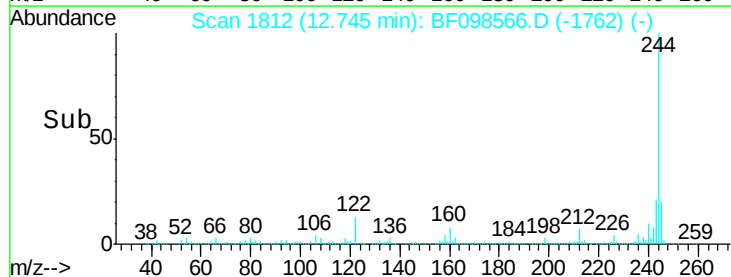
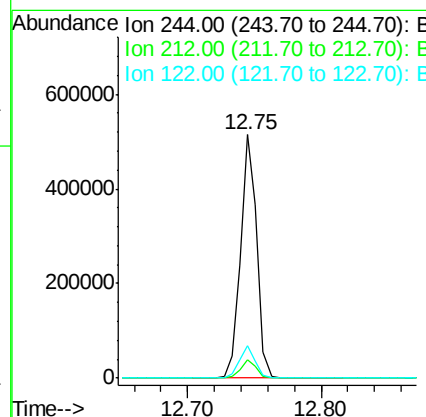
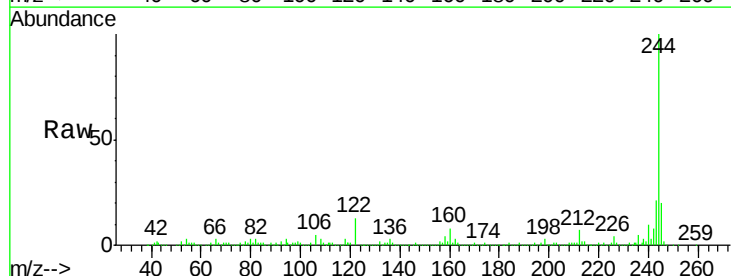
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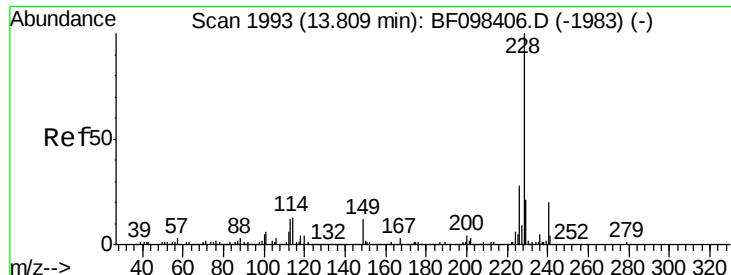
Sohil
 9/18/2017 3:33:32 PM



#78
 Terphenyl-d14
 Concen: 37.891 ng
 RT: 12.75 min Scan# 1812
 Delta R.T. -0.01 min
 Lab File: BF098566.D
 Acq: 15 Sep 2017 13:43

Tgt Ion:	244	Resp:	437068
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.0	9.0
122	13.3	10.3	15.5





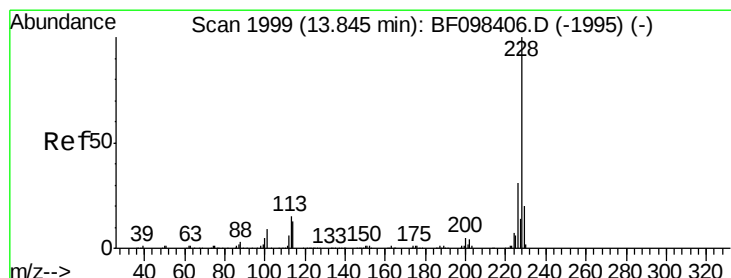
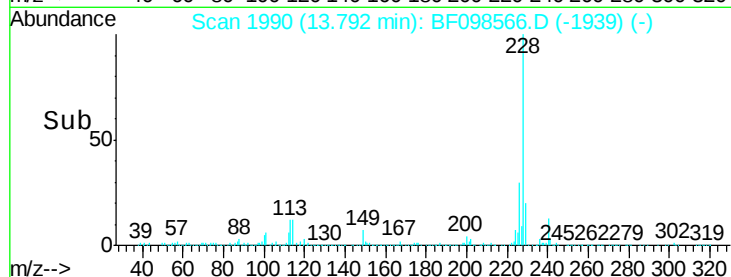
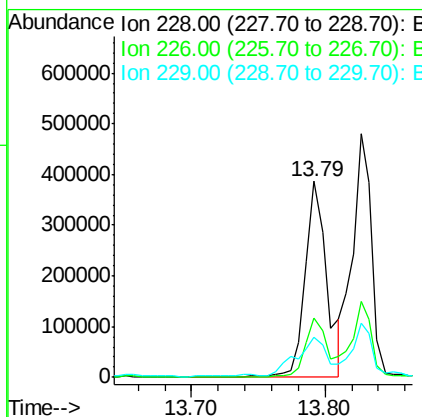
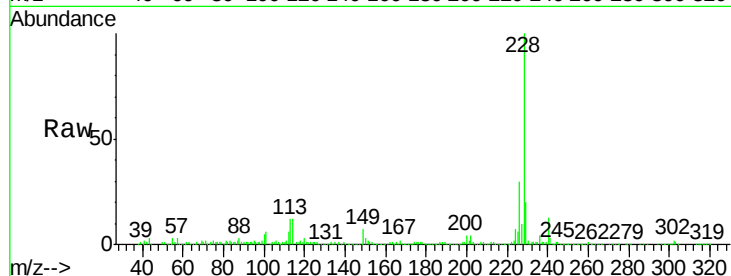
#80
Benzo(a)anthracene
Concen: 29.355 ng
RT: 13.79 min Scan# 1990
Delta R.T. 0.00 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Instrument :
BNA_F
ClientSampleId :
G-9-1DL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	22.6	33.8
229	20.4	16.3	24.5

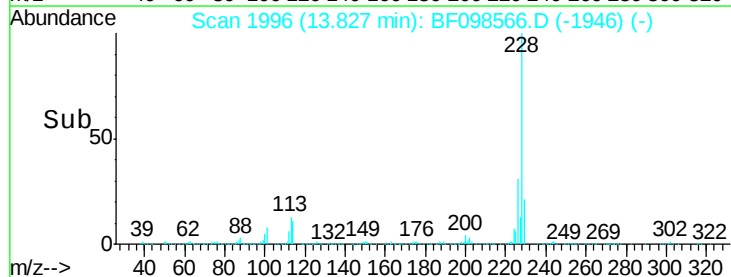
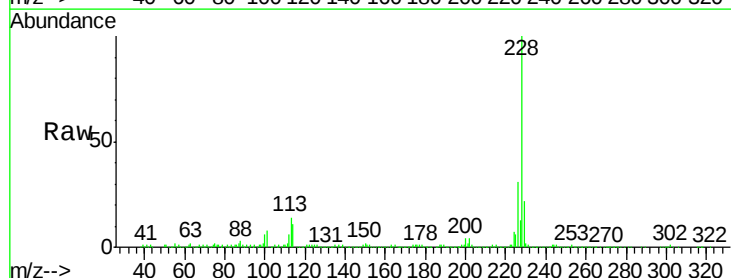
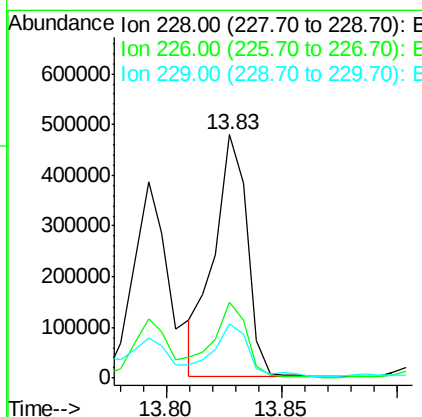
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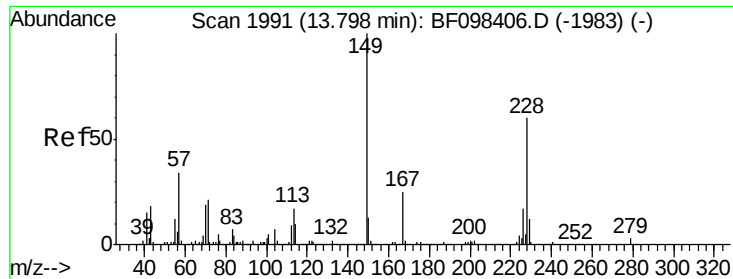
Sohil
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#82
Chrysene
Concen: 32.303 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.9	37.3
229	22.4	15.8	23.6





#83

Bis(2-ethylhexyl)phthalate

Concen: 4.553 ng

RT: 13.79 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

Instrument :

BNA_F

ClientSampled :

G-9-1DL

Tgt Ion:149 Resp: 48686

Ion Ratio Lower Upper

149 100

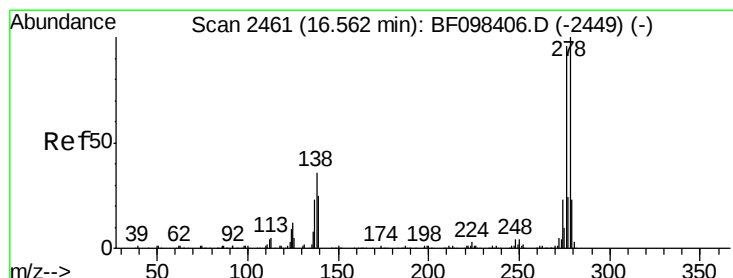
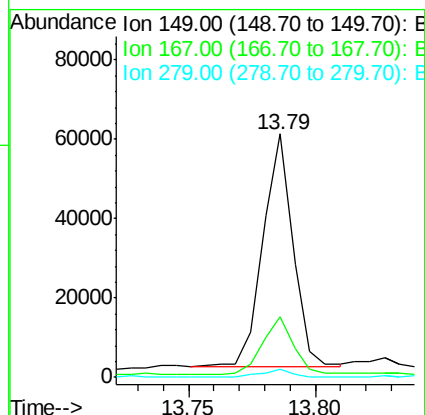
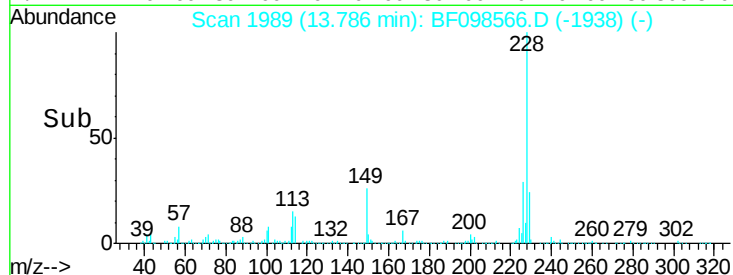
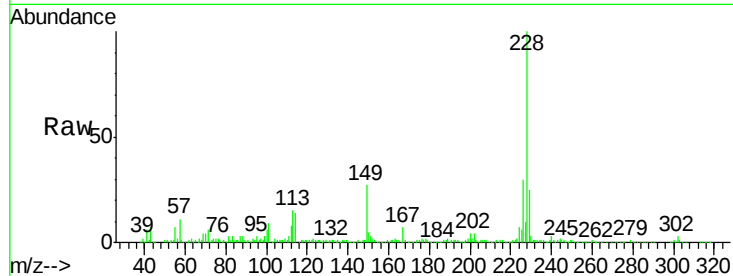
167 24.6 21.0 31.4

279 3.3 1.9 2.9#

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#85

Indeno(1,2,3-cd)pyrene

Concen: 17.179 ng m

RT: 16.54 min Scan# 2458

Delta R.T. -0.01 min

Lab File: BF098566.D

Acq: 15 Sep 2017 13:43

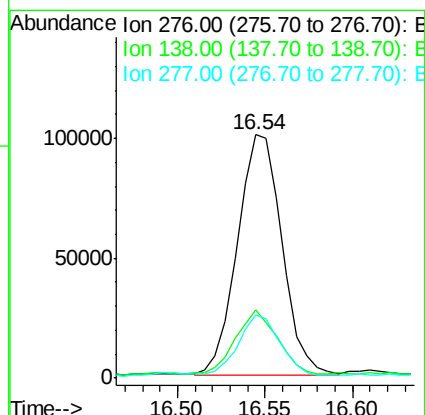
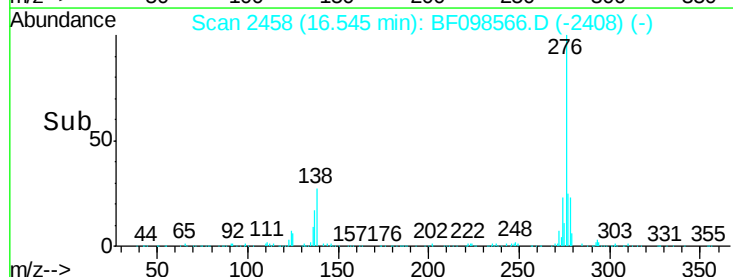
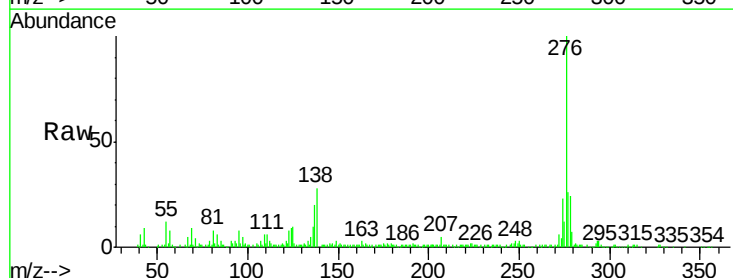
Tgt Ion:276 Resp: 177841

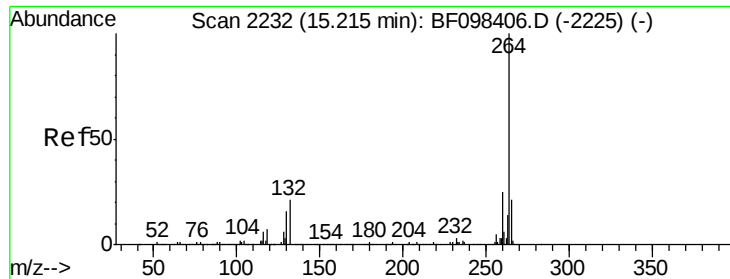
Ion Ratio Lower Upper

276 100

138 6.0 27.8 41.6#

277 4.8 20.2 30.4#





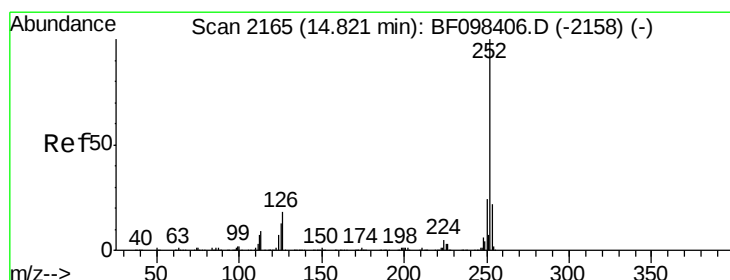
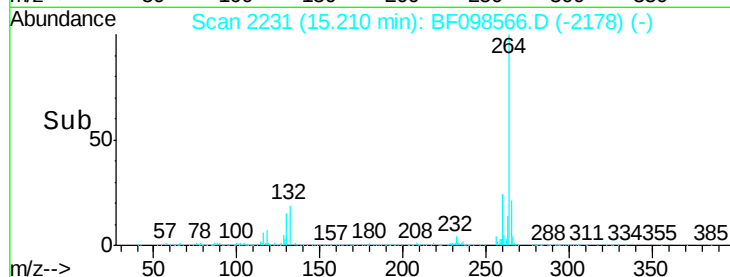
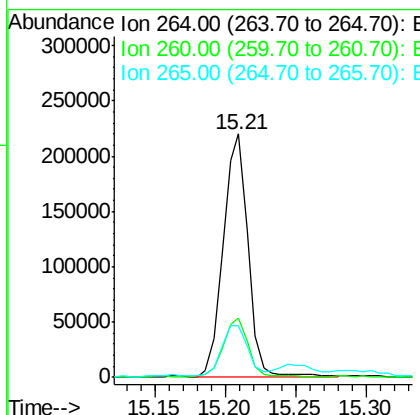
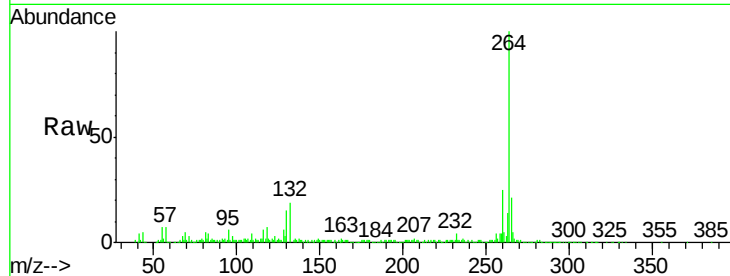
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Instrument :
BNA_F
ClientSampled :
G-9-1DL

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	264517		
260	24.6	19.5	29.3	
265	21.2	17.2	25.8	

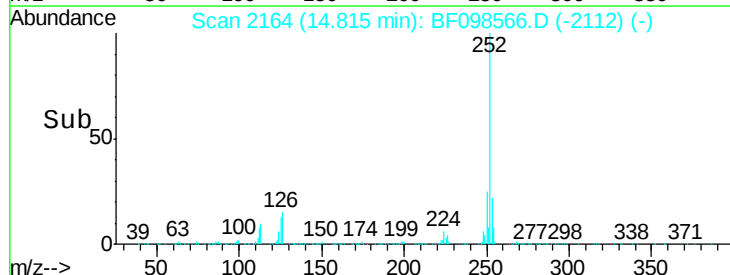
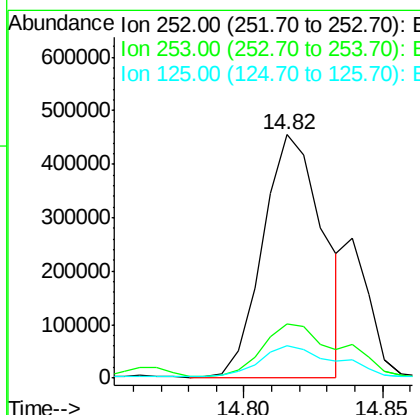
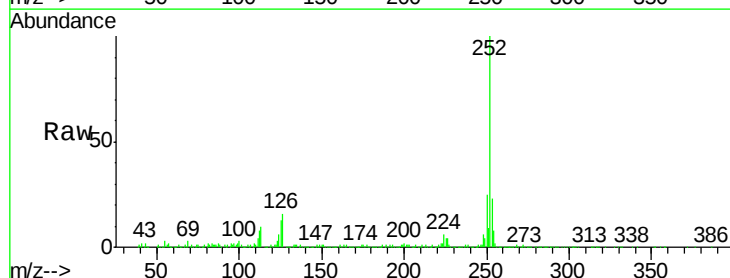
Manual Integrations
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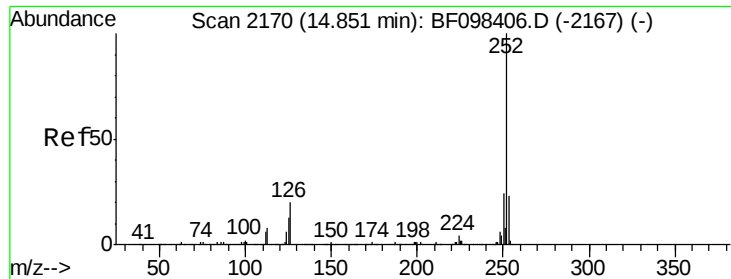
Sohil
9/18/2017 3:33:32 PM



#87
Benzo(b)fluoranthene
Concen: 41.611 ng m
RT: 14.82 min Scan# 2164
Delta R.T. 0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	692071		
253	22.5	18.1	27.1	
125	13.3	9.8	14.8	





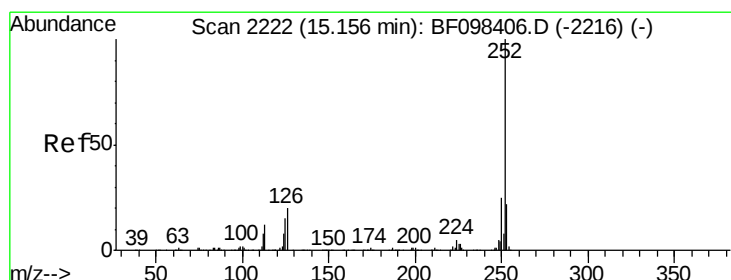
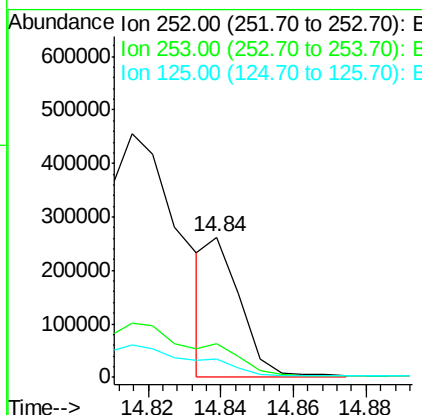
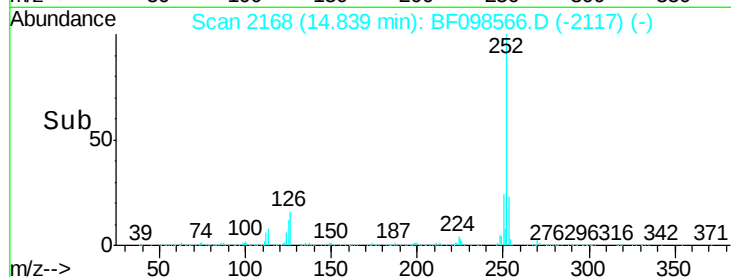
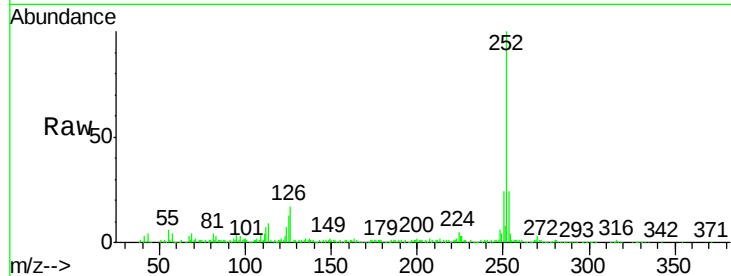
#88
Benzo(k)fluoranthene
Concen: 10.809 ng m
RT: 14.84 min Scan# 2168
Delta R.T. 0.00 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Instrument :
BNA_F
ClientSampled :
G-9-1DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.4	27.6
125	12.6	13.1	19.7

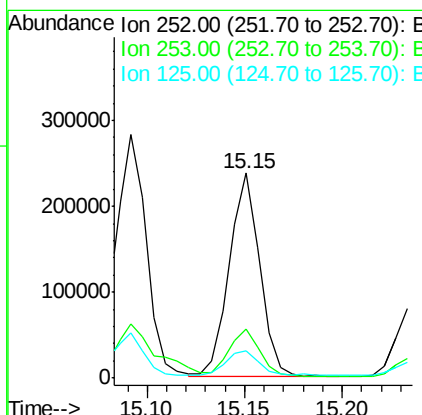
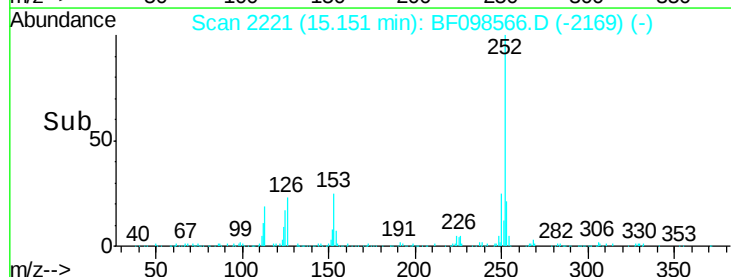
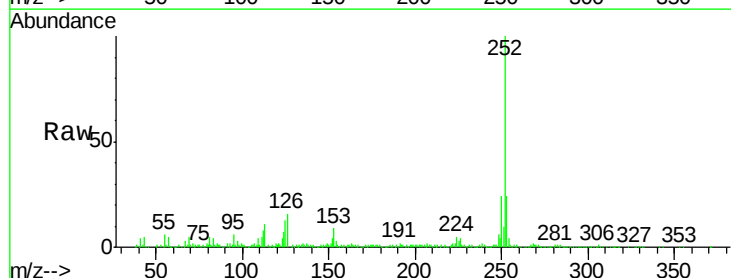
Manual Integrations
APPROVED

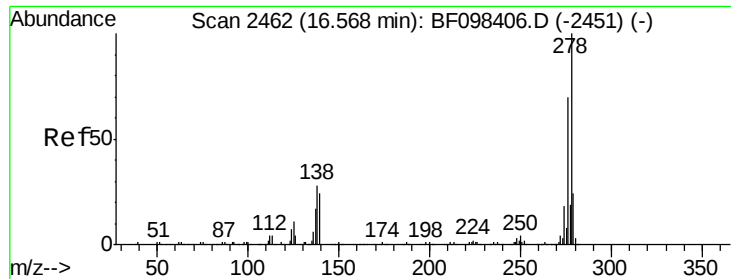
Sohil
9/18/2017 3:33:32 PM



#89
Benzo(a)pyrene
Concen: 17.409 ng
RT: 15.15 min Scan# 2221
Delta R.T. 0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.5	26.3
125	13.3	11.0	16.4





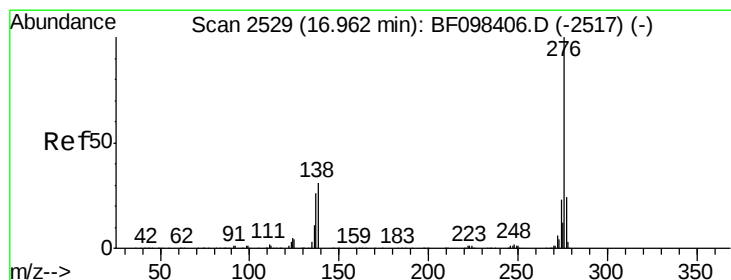
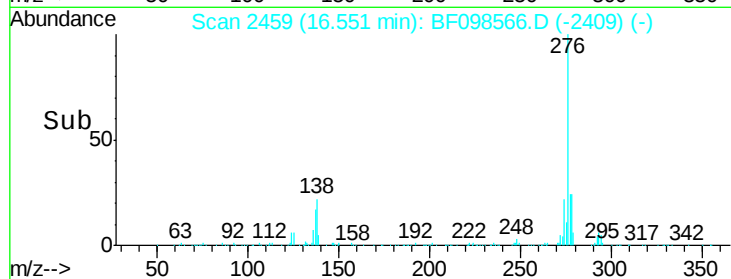
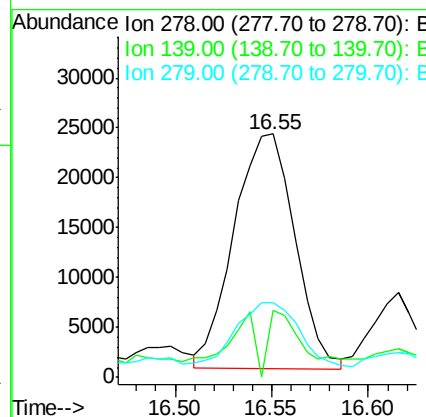
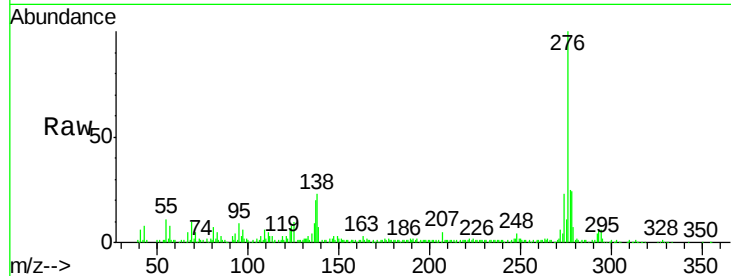
#90
Dibenzo(a,h)anthracene
Concen: 4.779 ng m
RT: 16.55 min Scan# 2459
Delta R.T. -0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Instrument :
BNA_F
ClientSampled :
G-9-1DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.3	16.6	24.8#
279	30.6	19.3	28.9#

Manual Integrations
APPROVED

Sohil
9/18/2017 3:33:32 PM



#91
Benzo(g,h,i)perylene
Concen: 14.219 ng
RT: 16.95 min Scan# 2527
Delta R.T. 0.01 min
Lab File: BF098566.D
Acq: 15 Sep 2017 13:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.6	28.0
138	28.6	25.4	38.0

