

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
 Data File : BF098563.D
 Acq On : 15 Sep 2017 12:19
 Operator : SJ/JU
 Sample : I5160-11
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G-4

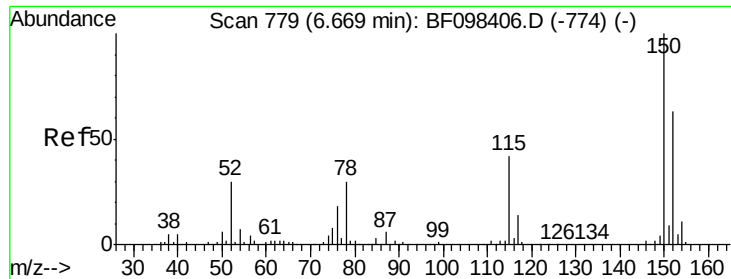
Manual Integrations
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 9/18/2017 3:33:27 PM

Quant Time: Sep 15 13:46:02 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	149832	20.00	ng	0.00
21) Naphthalene-d8	7.93	136	602836	20.00	ng	0.00
38) Acenaphthene-d10	9.68	164	256510	20.00	ng	0.00
63) Phenanthrene-d10	11.16	188	395876	20.00	ng	0.00
75) Chrysene-d12	13.80	240	277110	20.00	ng	0.00
86) Perylene-d12	15.21	264	289597	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	1033677	102.00	ng	0.02
7) Phenol-d6	6.31	99	1276111	99.18	ng	0.01
23) Nitrobenzene-d5	7.22	82	783558	72.46	ng	0.00
41) 2,4,6-Tribromophenol	10.47	330	190808	111.45	ng	0.00
44) 2-Fluorobiphenyl	9.01	172	1272061	84.05	ng	0.00
78) Terphenyl-d14	12.75	244	749941	58.41	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.95	128	290448	9.746	ng	99
37) 2-Methylnaphthalene	8.64	142	208155	11.531	ng	100
48) Acenaphthylene	9.54	152	91889	3.769	ng	97
49) Dimethylphthalate	9.40	163	237599	11.966	ng	99
54) Dibenzofuran	9.89	168	110747	5.424	ng	# 96
57) Fluorene	10.23	166	34239	2.026	ng	# 98
70) Phenanthrene	11.19	178	369121	17.588	ng	99
71) Anthracene	11.24	178	186027	8.634	ng	98
72) Carbazole	11.40	167	41021	2.043	ng	97
74) Fluoranthene	12.37	202	562697	26.783	ng	99
77) Pyrene	12.60	202	529207	24.209	ng	99
80) Benzo(a)anthracene	13.79	228	318098	19.580	ng	95
82) Chrysene	13.83	228	341025	20.766	ng	96
83) Bis(2-ethylhexyl)phthalate	13.79	149	36665	3.081	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.55	276	176564	15.324	ng	# 90
87) Benzo(b)fluoranthene	14.82	252	601489m	33.032	ng	
88) Benzo(k)fluoranthene	14.84	252	131173m	7.716	ng	
89) Benzo(a)pyrene	15.15	252	284027	17.508	ng	99
90) Dibenzo(a,h)anthracene	16.55	278	56298	4.771	ng	# 71
91) Benzo(g,h,i)perylene	16.95	276	153215	12.909	ng	95

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



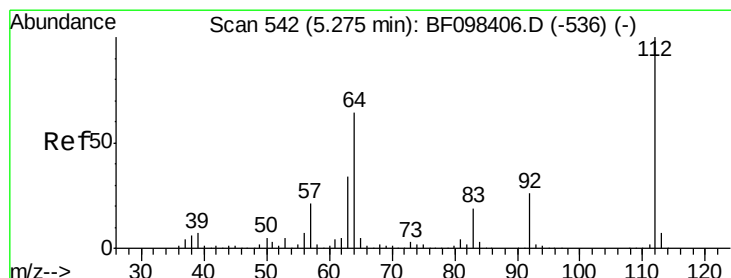
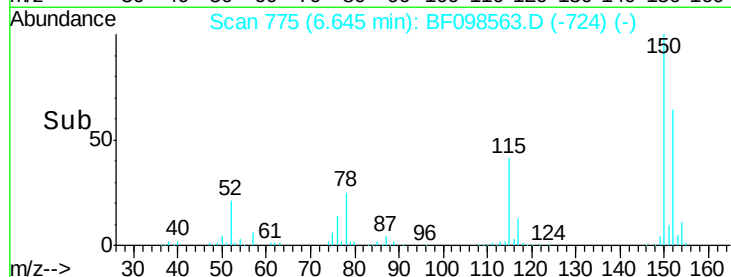
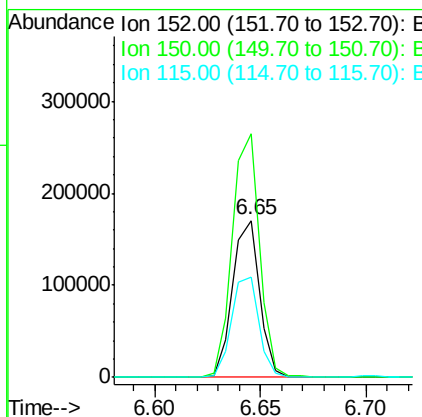
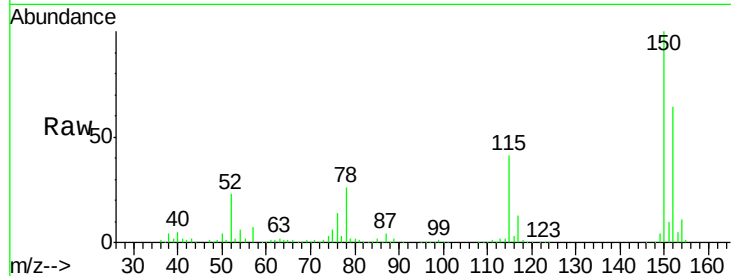
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.65 min Scan# 775
 Delta R.T. 0.00 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Instrument :
 BNA_F
 ClientSampleId :
 G-4

Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.4	126.2	189.2
115	64.1	52.2	78.2

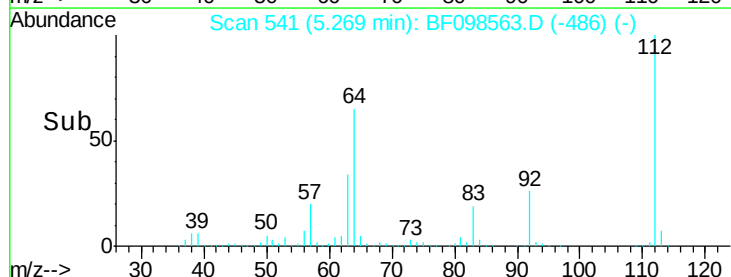
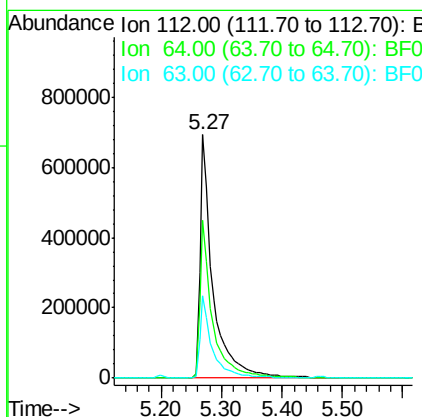
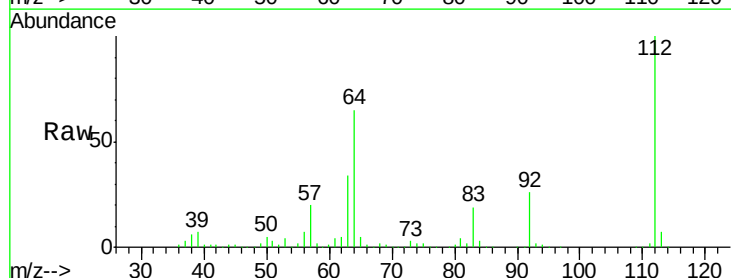
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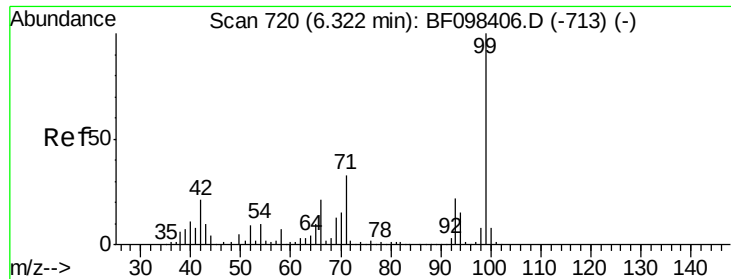
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#5
 2-Fluorophenol
 Concen: 102.002 ng
 RT: 5.27 min Scan# 541
 Delta R.T. 0.02 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.8	46.0	69.0
63	33.9	23.4	35.0





#7

Phenol-d6

Concen: 99.180 ng

RT: 6.31 min Scan# 718

Delta R.T. 0.01 min

Lab File: BF098563.D

Acq: 15 Sep 2017 12:19

Instrument :

BNA_F

ClientSampled :

G-4

Tgt Ion: 99 Resp: 1276111

Ion Ratio Lower Upper

99 100

42 18.9 13.5 20.3

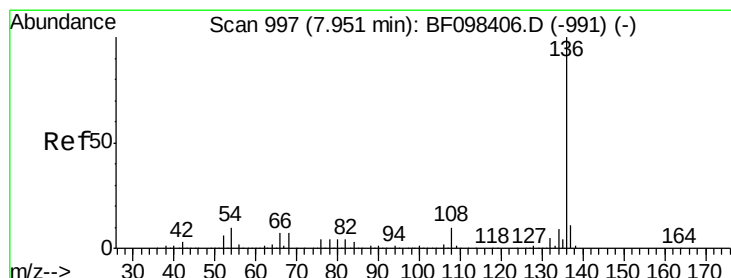
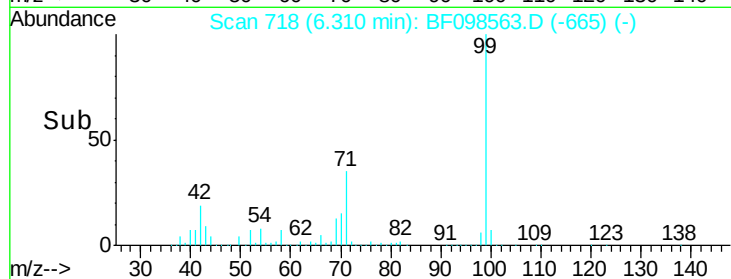
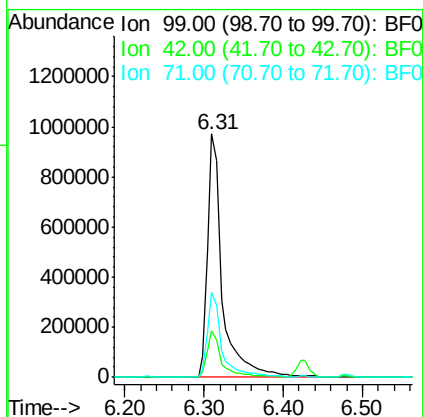
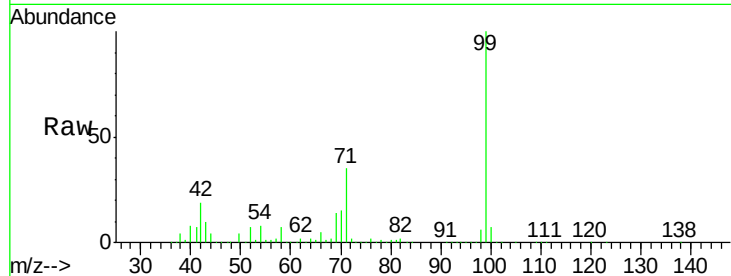
71 34.6 24.5 36.7

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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: BF098563.D

Acq: 15 Sep 2017 12:19

Tgt Ion: 136 Resp: 602836

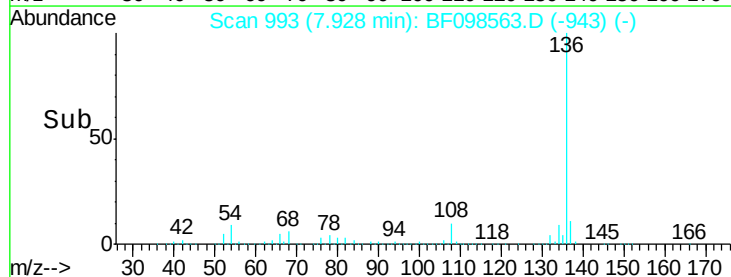
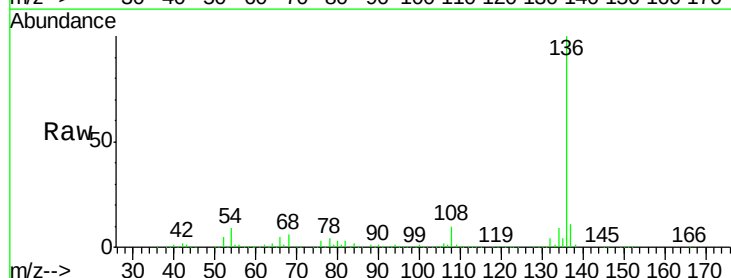
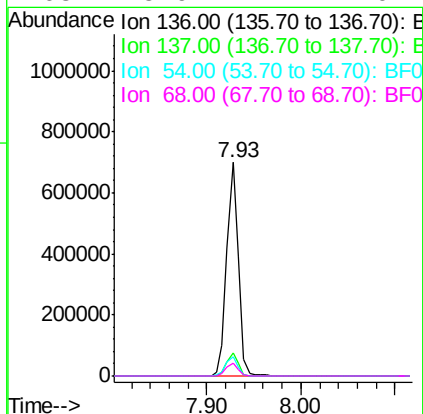
Ion Ratio Lower Upper

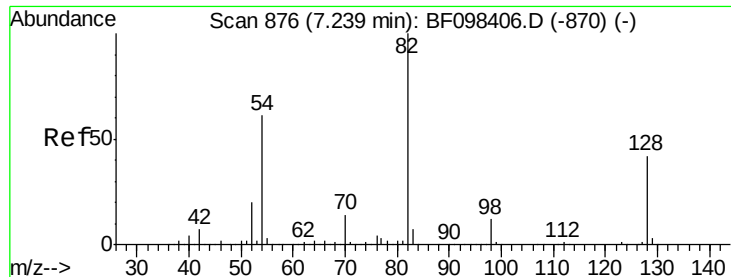
136 100

137 10.9 8.5 12.7

54 9.2 4.9 7.3#

68 5.9 4.1 6.1





#23

Nitrobenzene-d5

Concen: 72.463 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.01 min

Lab File: BF098563.D

Acq: 15 Sep 2017 12:19

Instrument :

BNA_F

ClientSampled :

G-4

Tgt Ion: 82 Resp: 783558
Ion Ratio Lower Upper

82 100

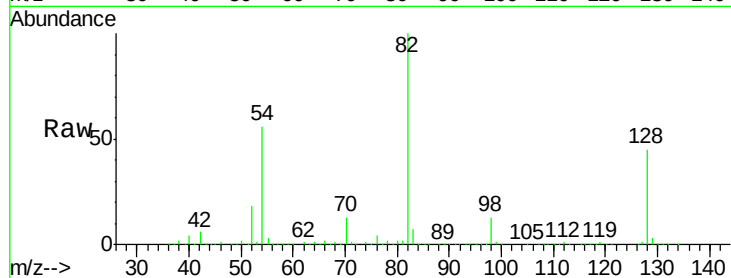
128 44.8 34.0 51.0

54 55.8 42.2 63.2

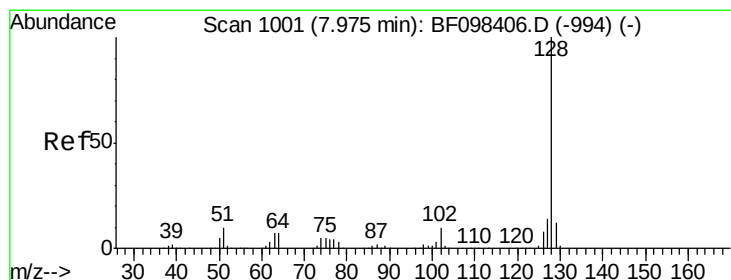
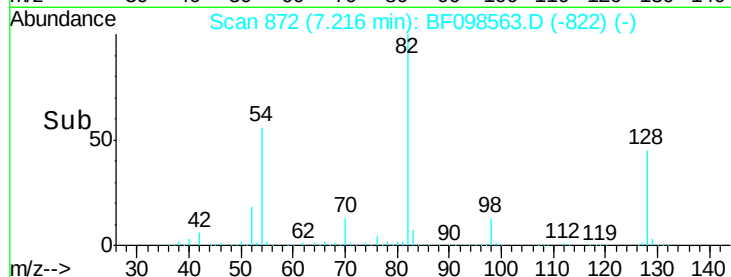
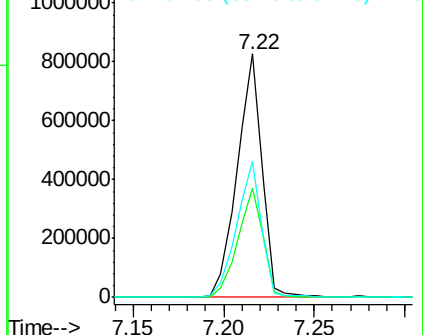
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Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 9.746 ng

RT: 7.95 min Scan# 997

Delta R.T. 0.00 min

Lab File: BF098563.D

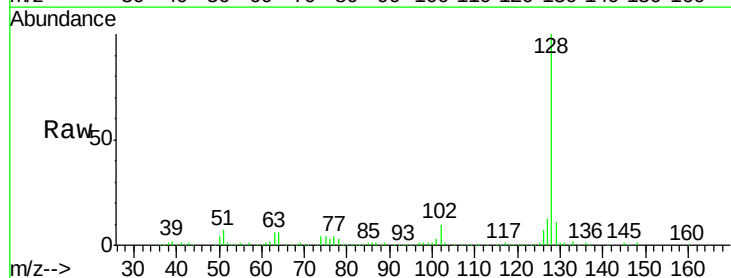
Acq: 15 Sep 2017 12:19

Tgt Ion: 128 Resp: 290448
Ion Ratio Lower Upper

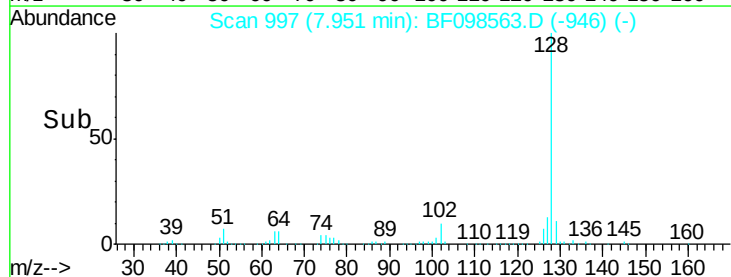
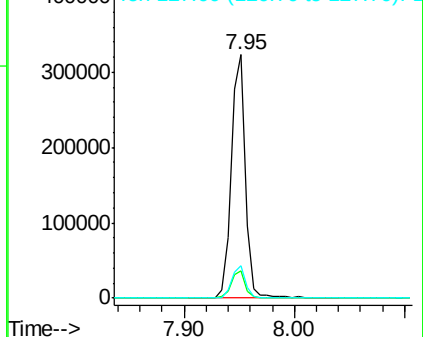
128 100

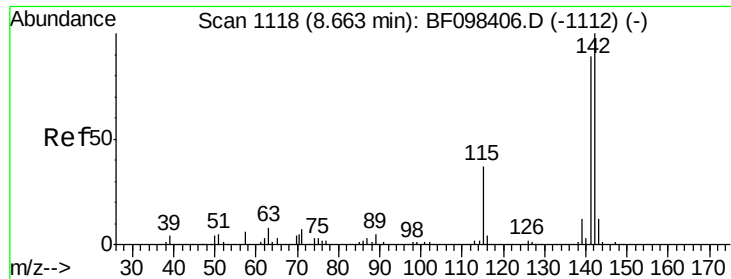
129 11.0 9.0 13.6

127 13.2 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





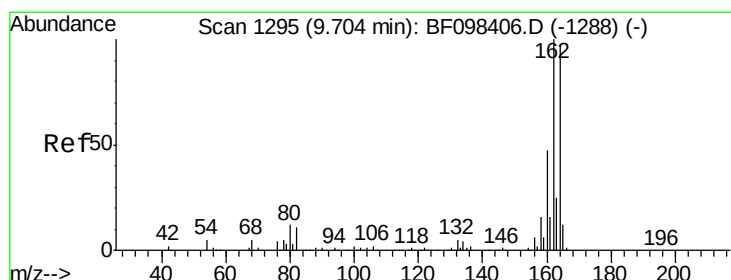
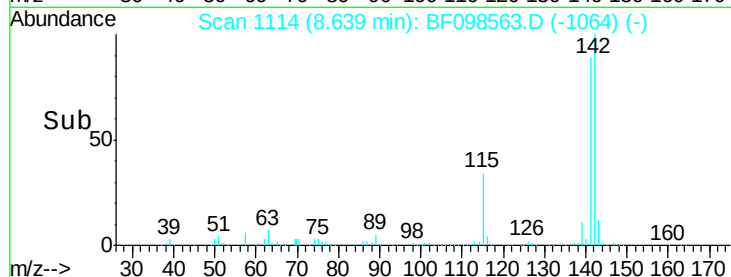
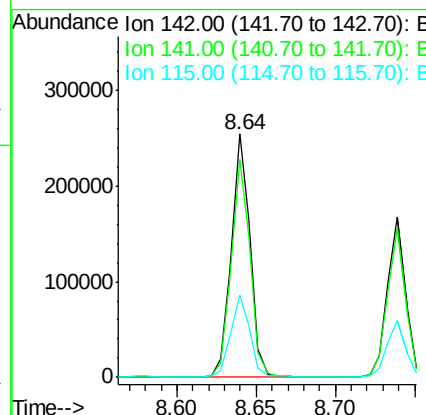
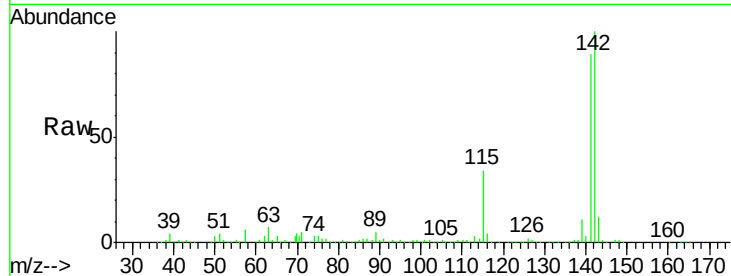
#37
2-Methylnaphthalene
Concen: 11.531 ng
RT: 8.64 min Scan# 1114
Delta R.T. -0.01 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Instrument :
BNA_F
ClientSampleId :
G-4

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
141	89.4	71.3	106.9
115	34.1	27.1	40.7

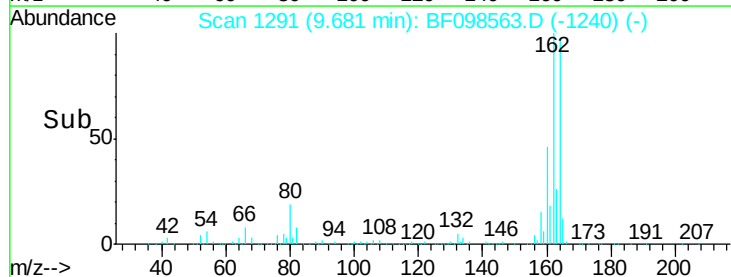
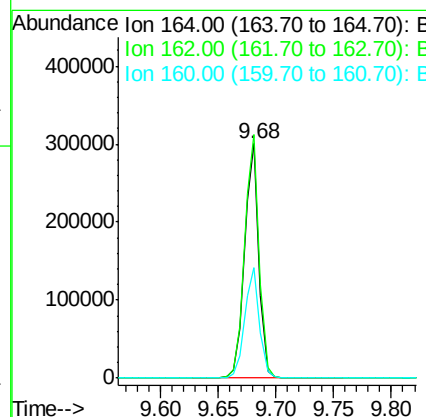
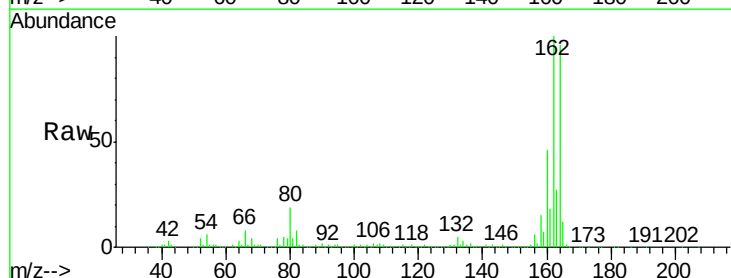
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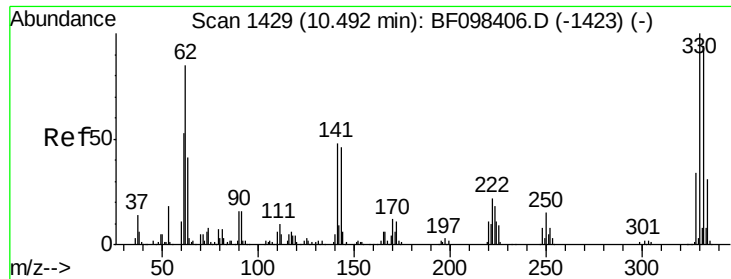
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.68 min Scan# 1291
Delta R.T. 0.00 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Resp Lower	Upper
164	100		
162	103.8	82.6	123.8
160	47.3	36.2	54.2





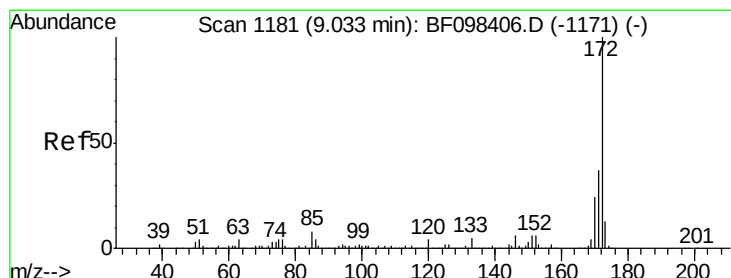
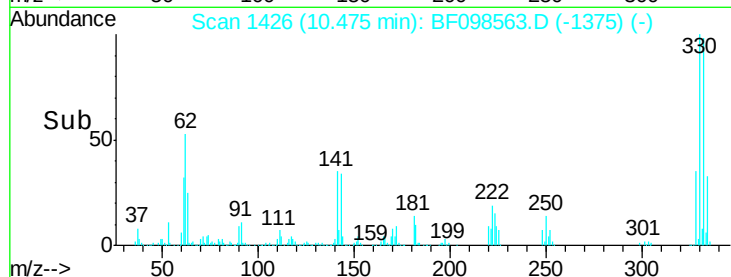
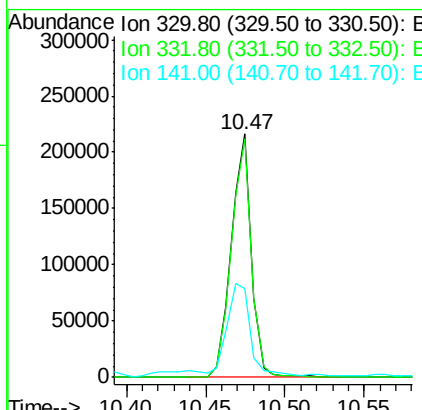
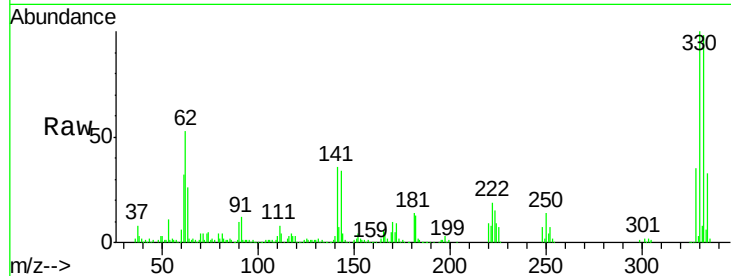
#41
 2,4,6-Tribromophenol
 Concen: 111.454 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. 0.00 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Instrument :
 BNA_F
 ClientSampled :
 G-4

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	190808		
332	98.6	76.6	115.0	
141	42.3	31.4	47.2	

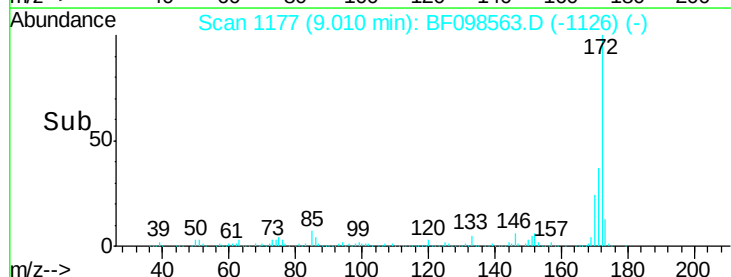
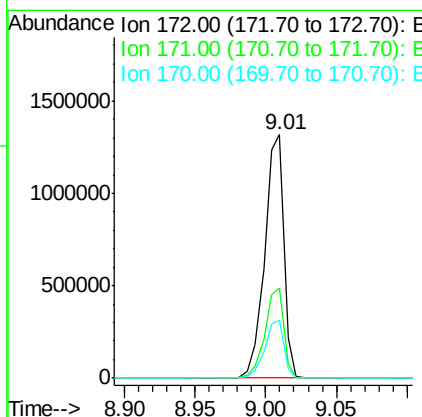
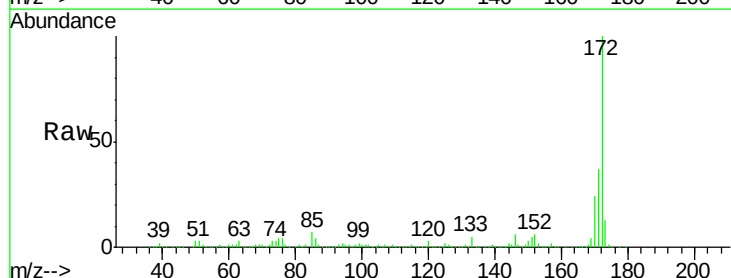
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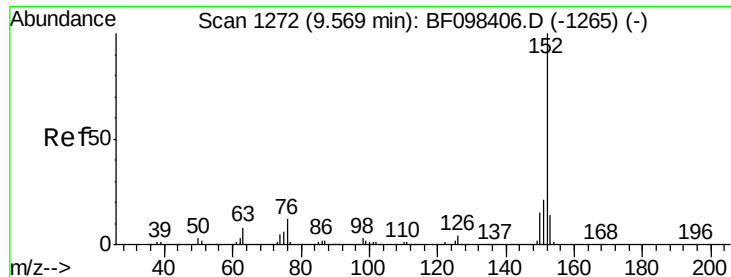
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#44
 2-Fluorobiphenyl
 Concen: 84.053 ng
 RT: 9.01 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1272061		
171	36.8	29.6	44.4	
170	23.7	19.8	29.8	





#48

Acenaphthylene

Concen: 3.769 ng

RT: 9.54 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF098563.D

Acq: 15 Sep 2017 12:19

Instrument :

BNA_F

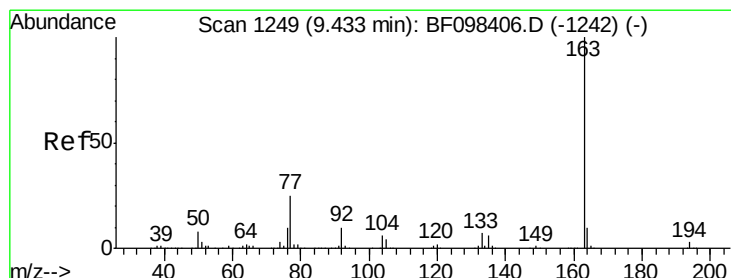
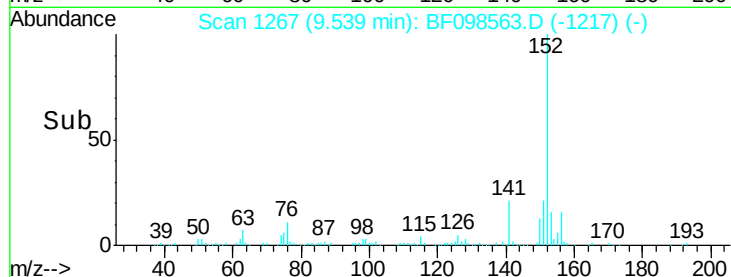
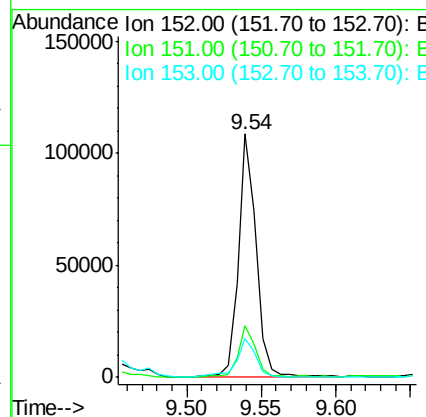
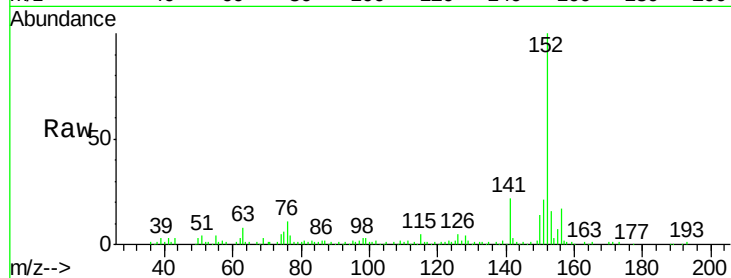
ClientSampleId :

G-4

Tgt Ion:	152	Resp:	91889
Ion Ratio	Lower	Upper	
152	100		
151	21.2	16.8	25.2
153	16.0	10.8	16.2

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#49

Dimethylphthalate

Concen: 11.966 ng

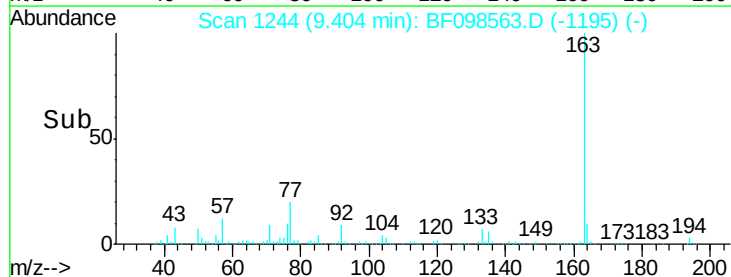
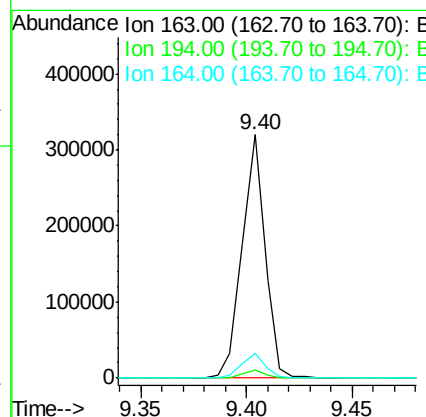
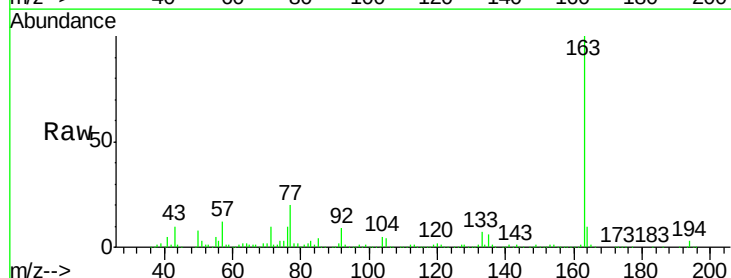
RT: 9.40 min Scan# 1244

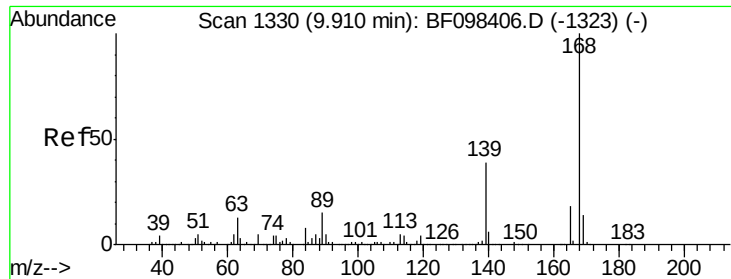
Delta R.T. -0.01 min

Lab File: BF098563.D

Acq: 15 Sep 2017 12:19

Tgt Ion:	163	Resp:	237599
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.6	4.0
164	10.1	8.4	12.6





#54

Dibenzenofuran

Concen: 5.424 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF098563.D

Acq: 15 Sep 2017 12:19

Instrument :

BNA_F

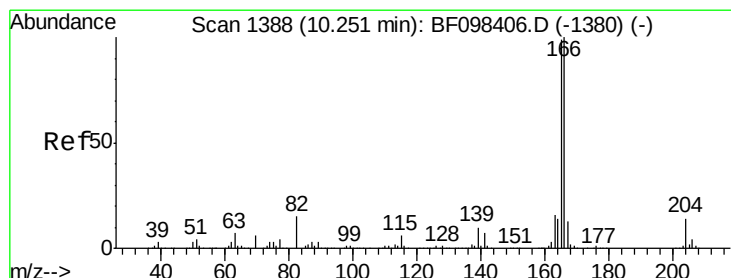
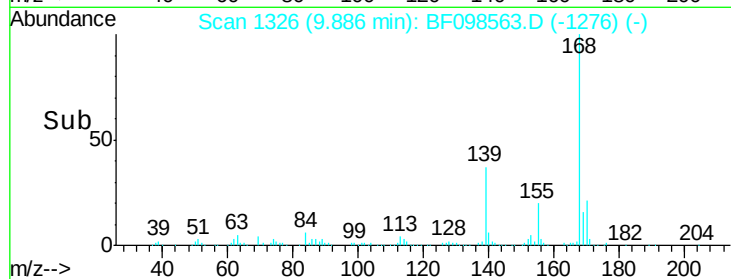
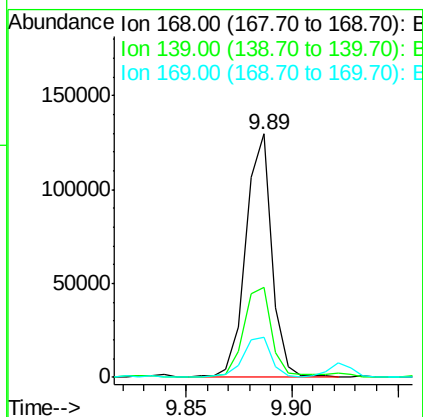
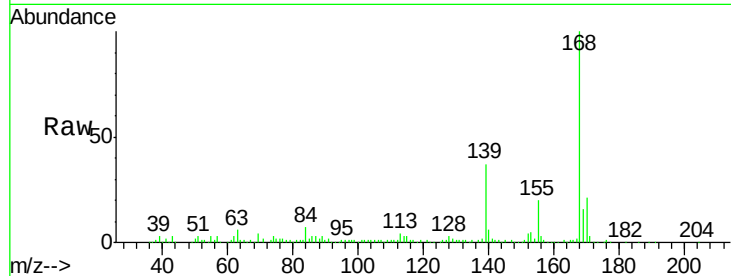
ClientSampleId :

G-4

Tgt Ion:	168	Resp:	110747
Ion Ratio		Lower	Upper
168	100		
139	36.8	30.6	45.8
169	16.3	10.8	16.2#

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#57

Fluorene

Concen: 2.026 ng

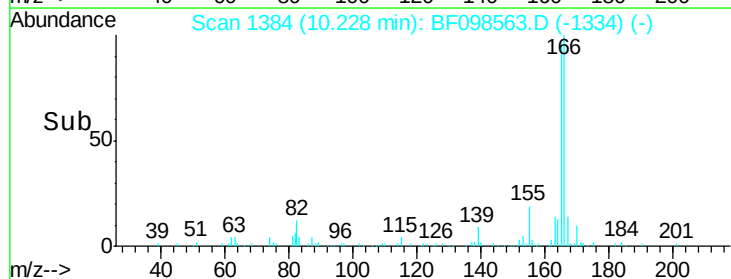
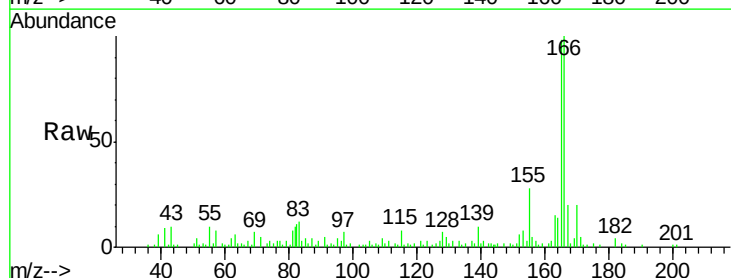
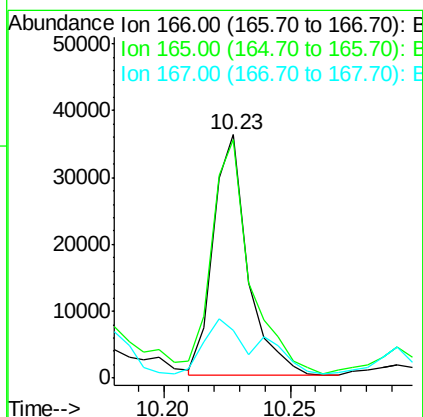
RT: 10.23 min Scan# 1384

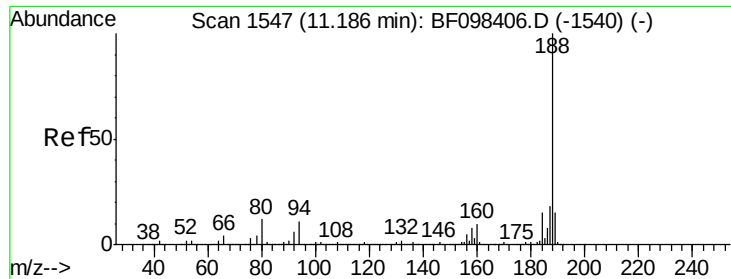
Delta R.T. -0.01 min

Lab File: BF098563.D

Acq: 15 Sep 2017 12:19

Tgt Ion:	166	Resp:	34239
Ion Ratio		Lower	Upper
166	100		
165	98.0	78.8	118.2
167	19.8	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.16 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BF098563.D

Acq: 15 Sep 2017 12:19

Instrument :

BNA_F

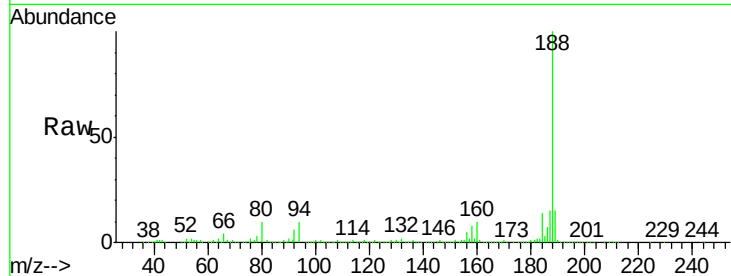
ClientSampleId :

G-4

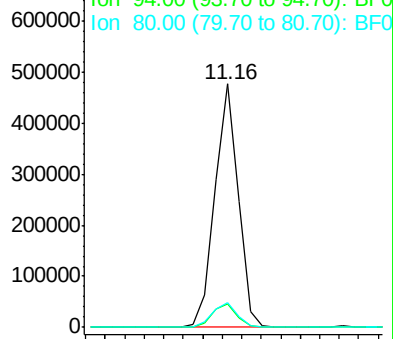
Tgt Ion:	188	Resp:	395876
Ion Ratio	Lower	Upper	
188	100		
94	9.9	9.4	14.2
80	10.2	10.2	15.2

Manual Integrations
APPROVED

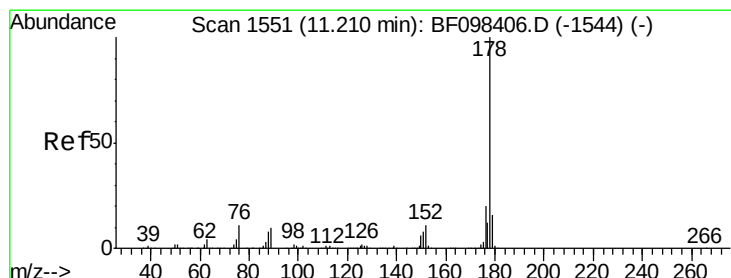
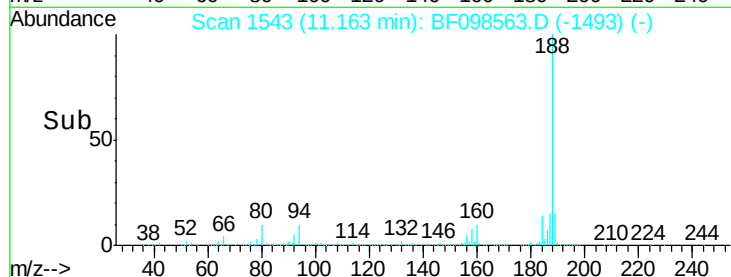
Sohil
9/18/2017 3:33:27 PM



Abundance Ion 188.00 (187.70 to 188.70): E



Time-->



#70

Phenanthrene

Concen: 17.588 ng

RT: 11.19 min Scan# 1547

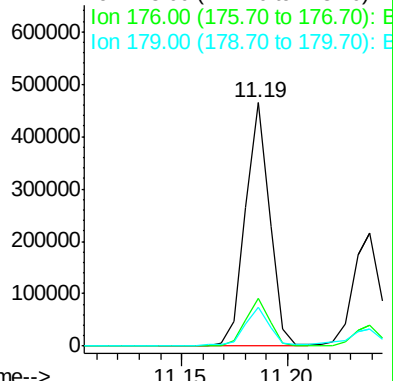
Delta R.T. -0.01 min

Lab File: BF098563.D

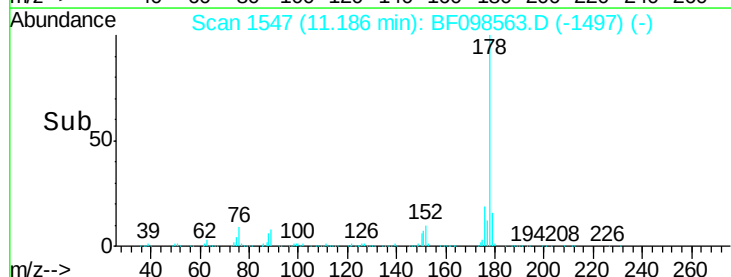
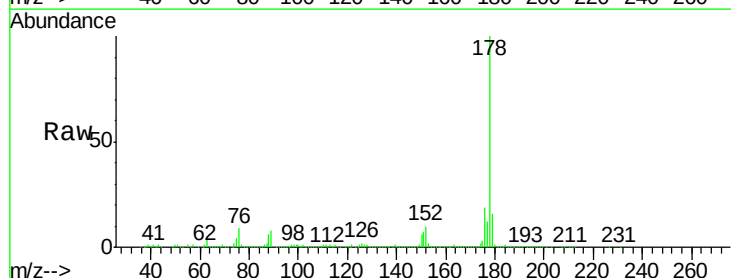
Acq: 15 Sep 2017 12:19

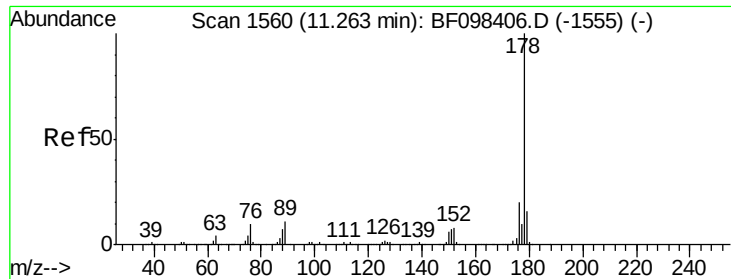
Tgt Ion:	178	Resp:	369121
Ion Ratio	Lower	Upper	
178	100		
176	19.5	16.2	24.4
179	15.8	12.6	19.0

Abundance Ion 178.00 (177.70 to 178.70): E



Time-->





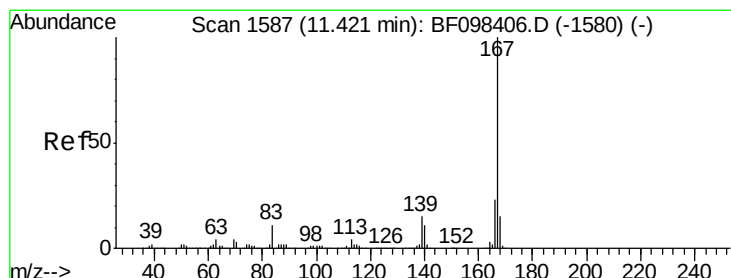
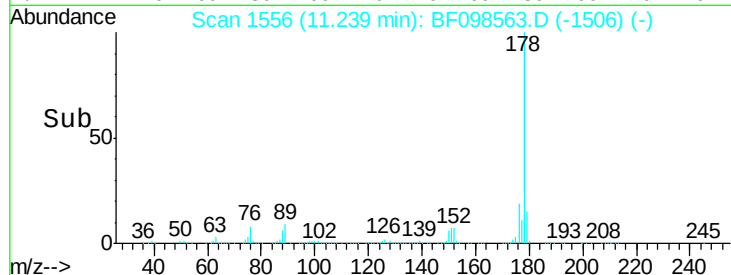
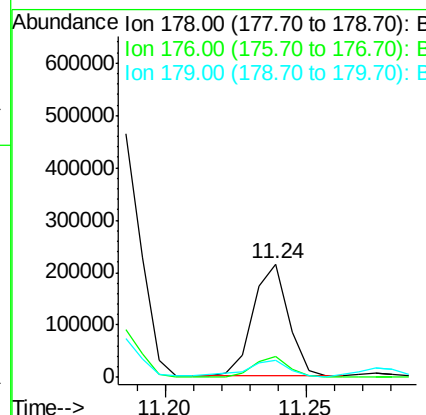
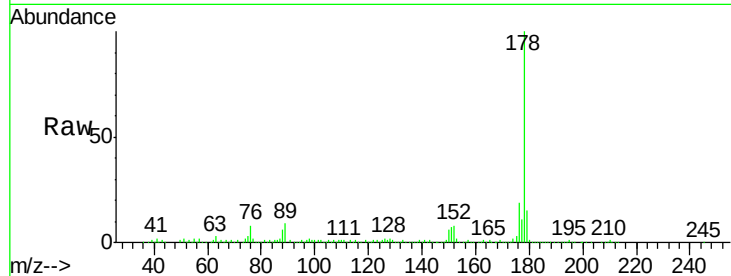
#71
 Anthracene
 Concen: 8.634 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Instrument :
 BNA_F
 ClientSampled :
 G-4

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	15.1	12.7	19.1

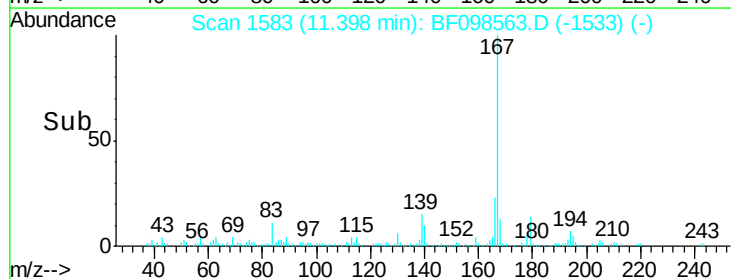
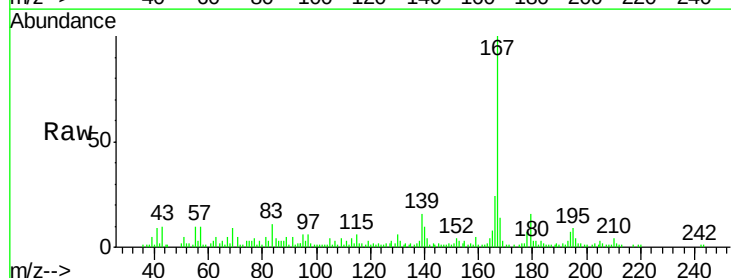
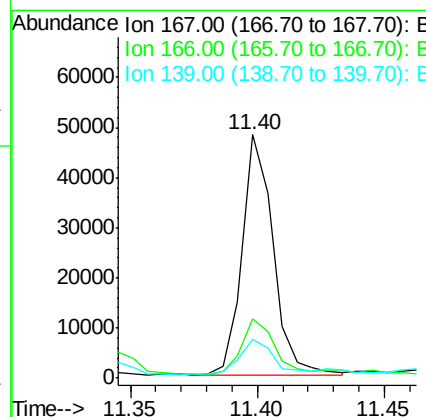
Manual Integrations
 APPROVED

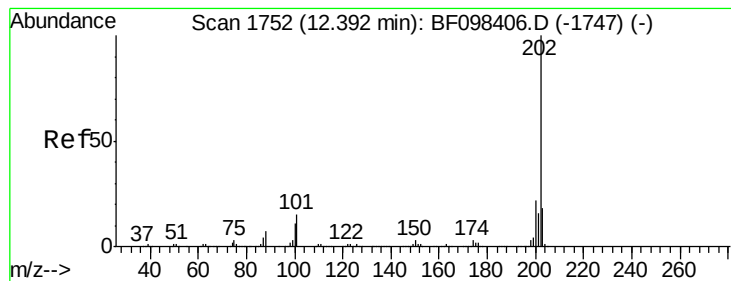
Sohil
 9/18/2017 3:33:27 PM



#72
 Carbazole
 Concen: 2.043 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.2	18.1	27.1
139	15.9	11.7	17.5





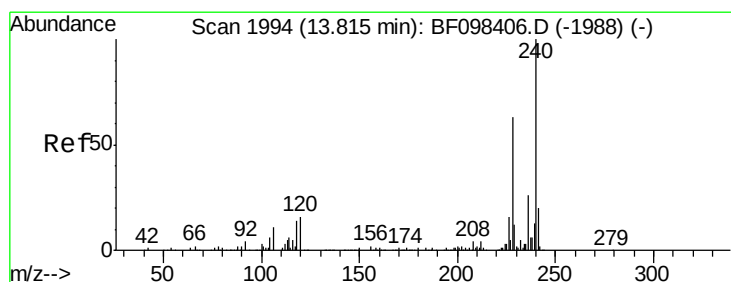
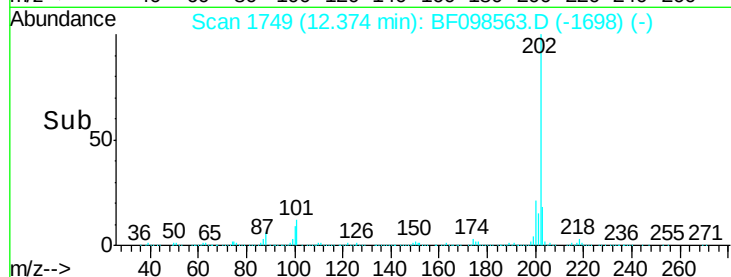
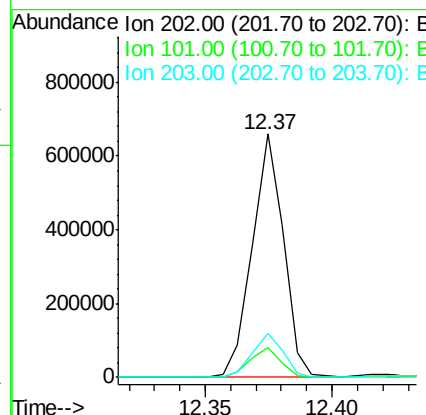
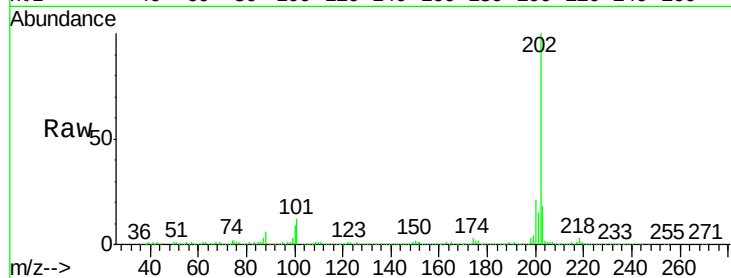
#74
 Fluoranthene
 Concen: 26.783 ng
 RT: 12.37 min Scan# 1749
 Delta R.T. 0.00 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Instrument :
 BNA_F
 ClientSampled :
 G-4

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	562697		
101	12.3	0.0	33.2	
203	18.2	0.0	38.1	

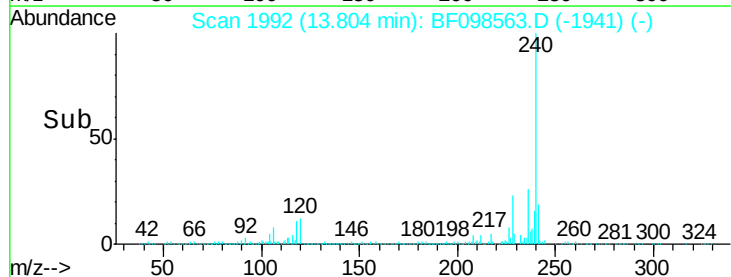
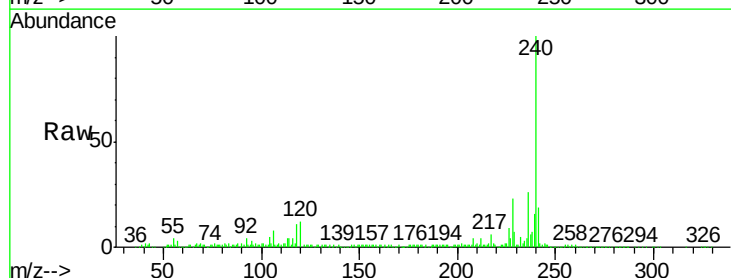
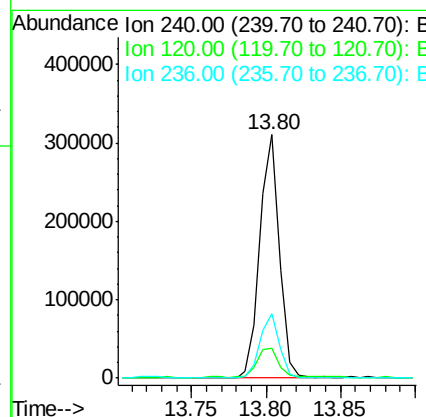
Manual Integrations
 APPROVED

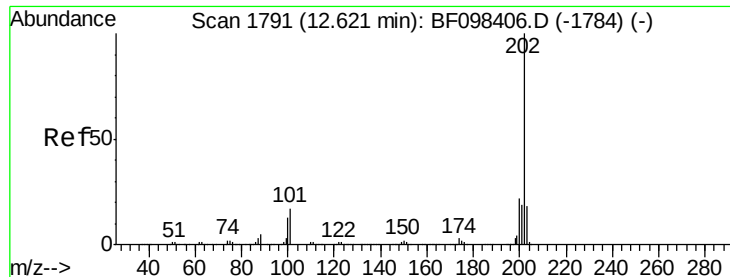
Sohil
 9/18/2017 3:33:27 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.80 min Scan# 1992
 Delta R.T. 0.00 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	277110		
120	12.1	5.8	8.8#	
236	26.4	20.5	30.7	





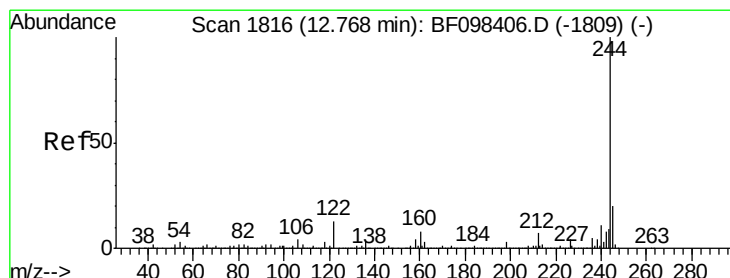
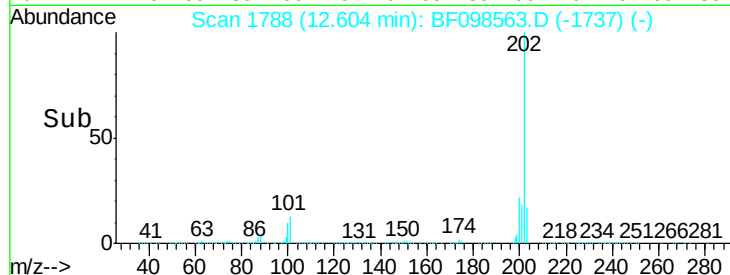
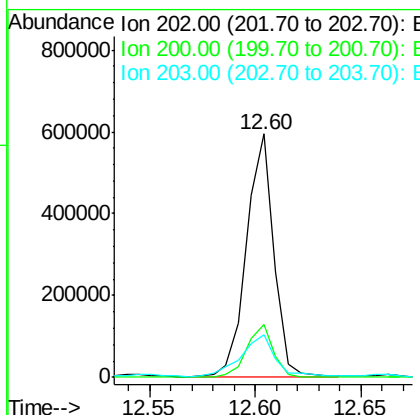
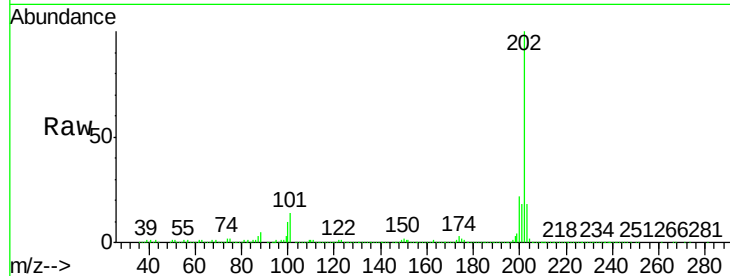
#77
 Pyrene
 Concen: 24.209 ng
 RT: 12.60 min Scan# 1788
 Delta R.T. 0.00 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Instrument :
 BNA_F
 ClientSampled :
 G-4

Tgt Ion:	202	Resp:	529207
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.6	26.4
203	17.7	14.4	21.6

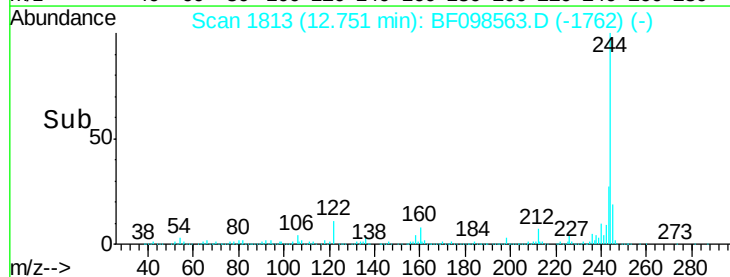
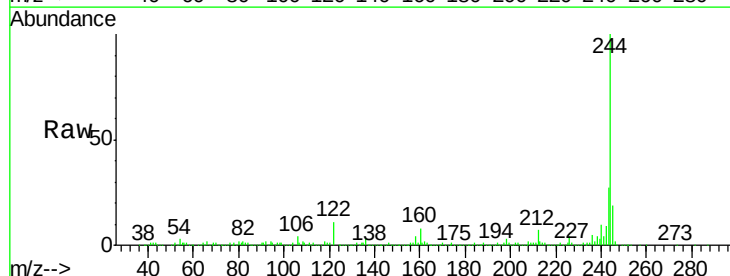
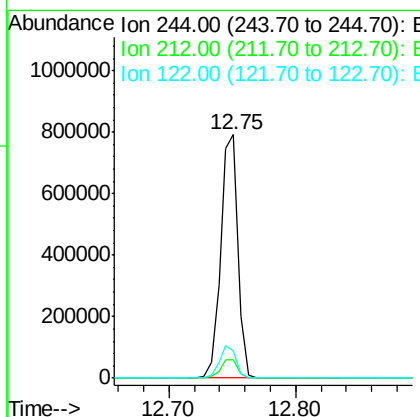
Manual Integrations
 APPROVED

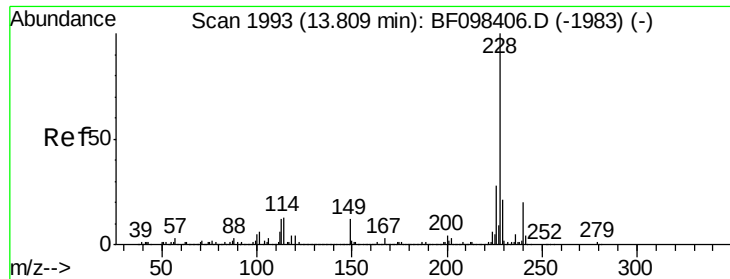
Sohil
 9/18/2017 3:33:27 PM



#78
 Terphenyl-d14
 Concen: 58.414 ng
 RT: 12.75 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: BF098563.D
 Acq: 15 Sep 2017 12:19

Tgt Ion:	244	Resp:	749941
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.0	9.0
122	11.1	10.3	15.5





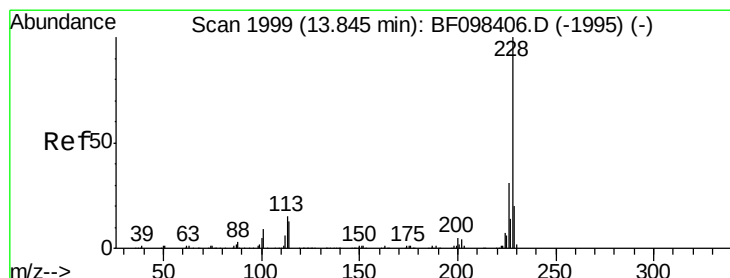
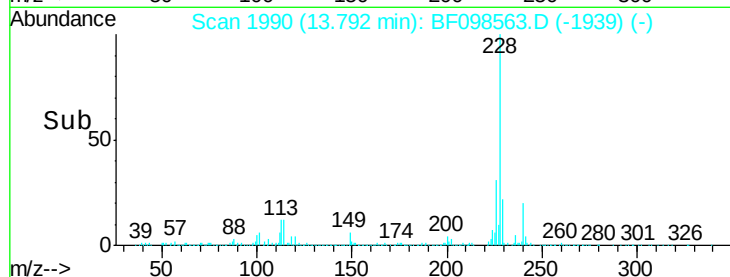
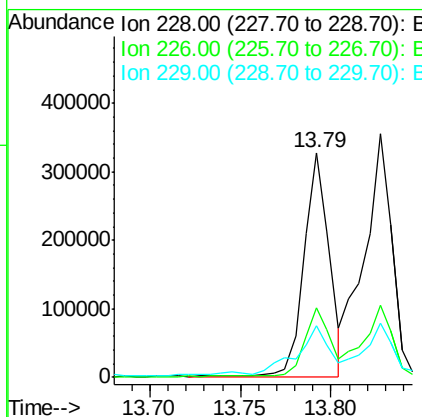
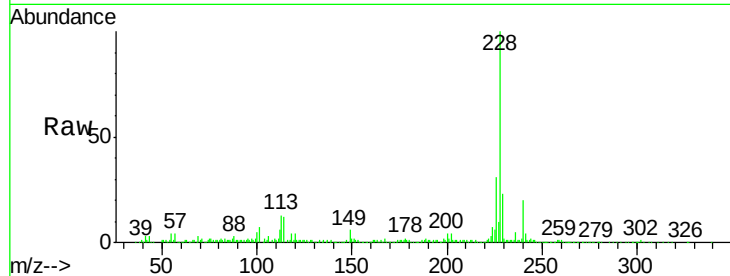
#80
Benzo(a)anthracene
Concen: 19.580 ng
RT: 13.79 min Scan# 1990
Delta R.T. 0.00 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Instrument :
BNA_F
ClientSampleId :
G-4

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	318098		
226	30.9	22.6	33.8	
229	22.7	16.3	24.5	

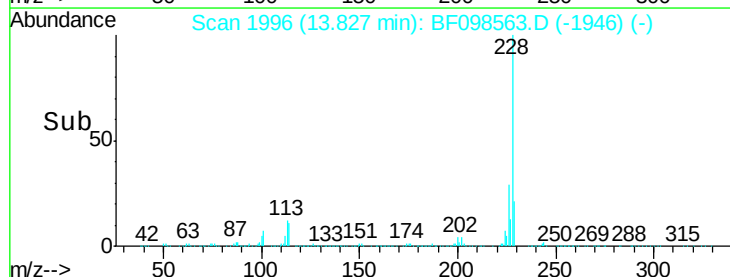
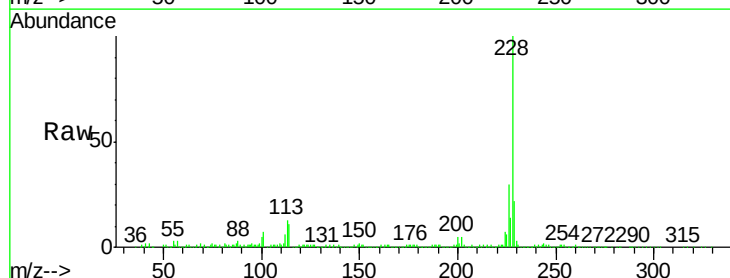
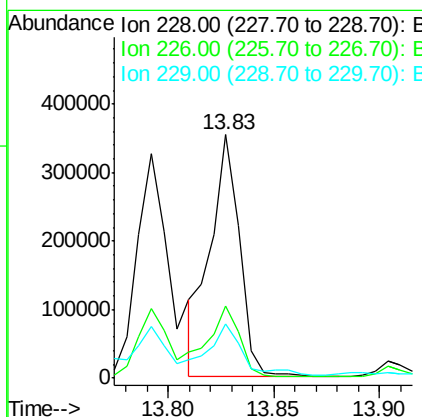
Manual Integrations
APPROVED

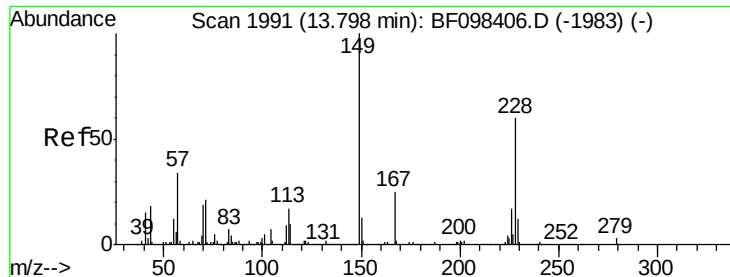
Sohil
9/18/2017 3:33:27 PM



#82
Chrysene
Concen: 20.766 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	341025		
226	29.9	24.9	37.3	
229	22.3	15.8	23.6	





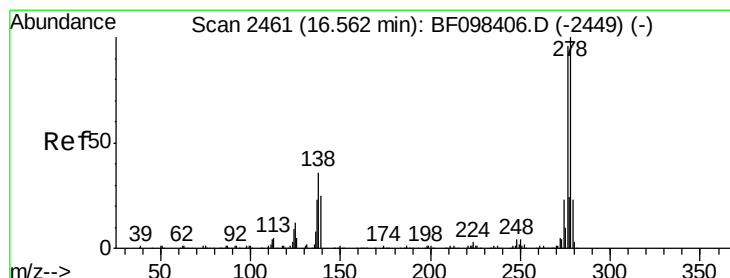
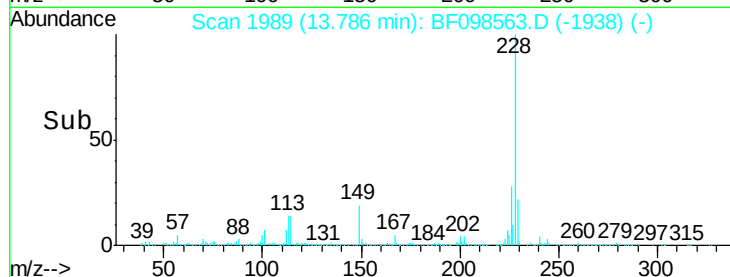
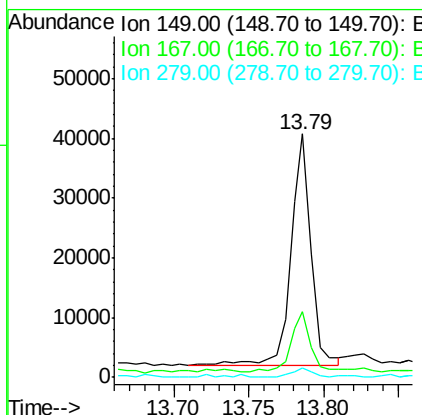
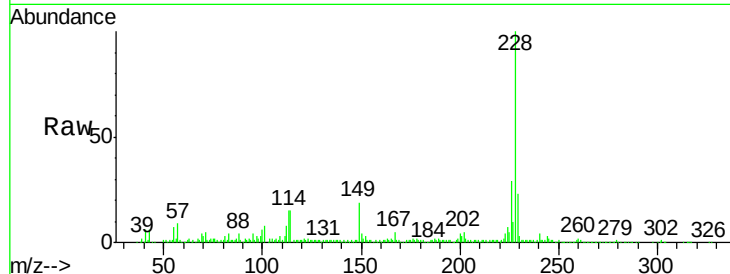
#83
Bis(2-ethylhexyl)phthalate
Concen: 3.081 ng
RT: 13.79 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Instrument :
BNA_F
ClientSampled :
G-4

Tgt Ion	Ratio	Resp Lower	Upper
149	100		
167	27.2	21.0	31.4
279	4.0	1.9	2.9#

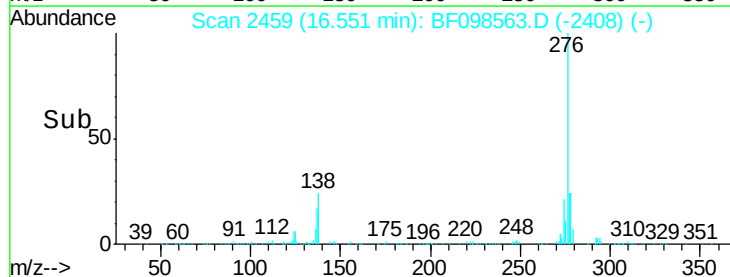
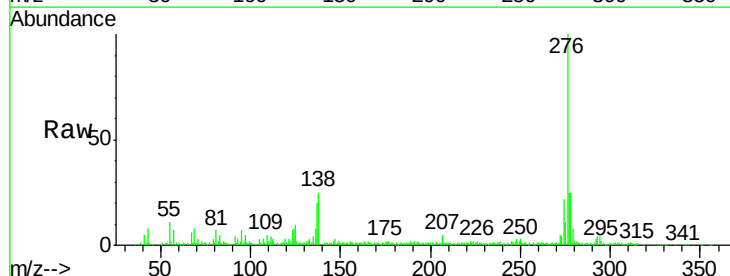
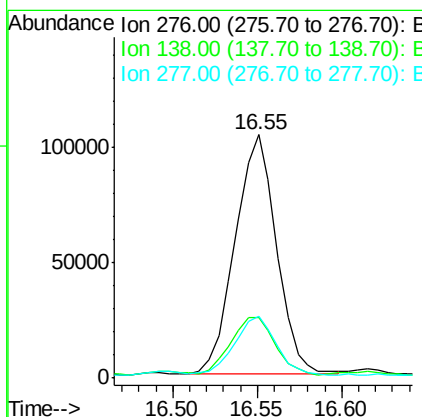
Manual Integrations
APPROVED

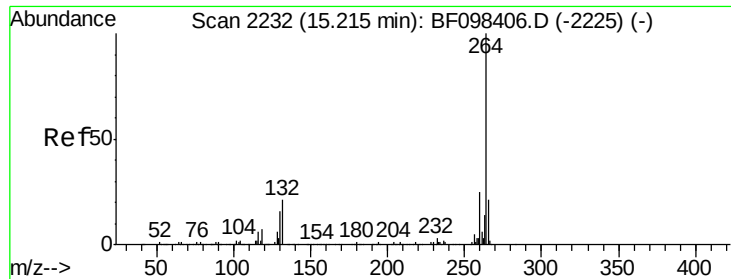
Sohil
9/18/2017 3:33:27 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 15.324 ng
RT: 16.55 min Scan# 2459
Delta R.T. 0.00 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	25.8	27.8	41.6#
277	24.0	20.2	30.4





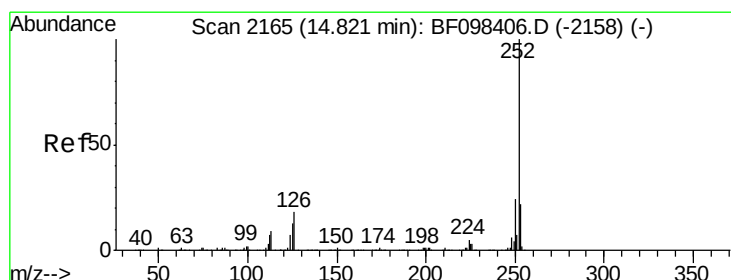
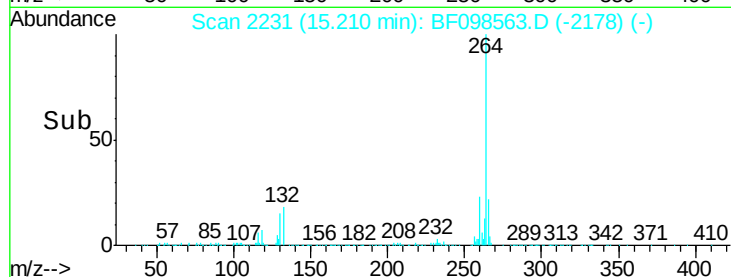
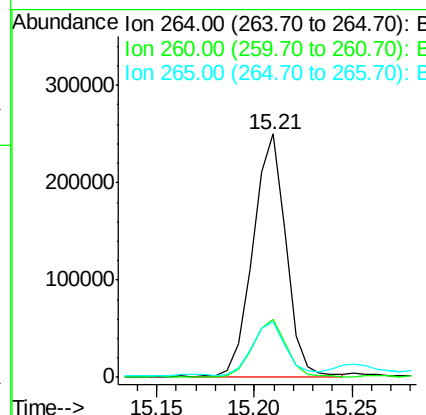
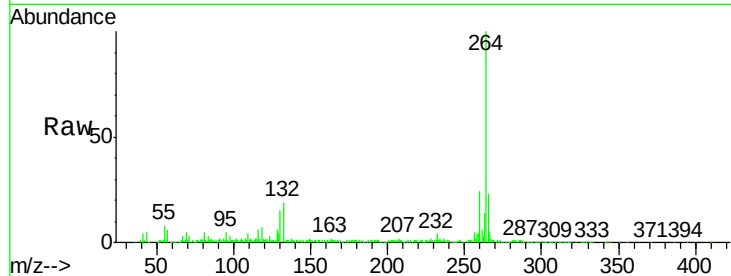
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.01 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Instrument :
BNA_F
ClientSampleId :
G-4

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	289597		
260	23.6	19.5	29.3	
265	22.8	17.2	25.8	

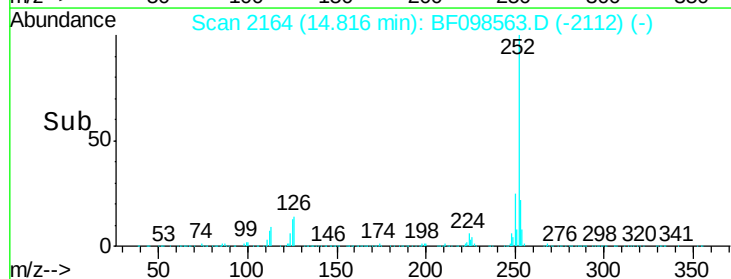
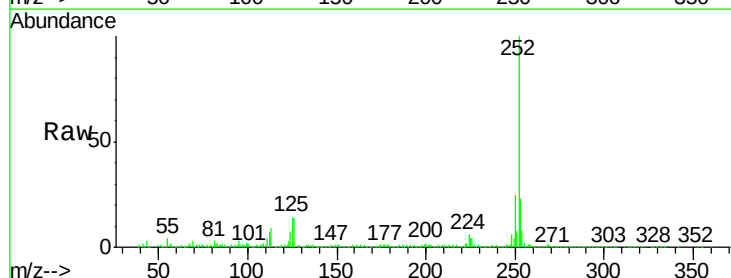
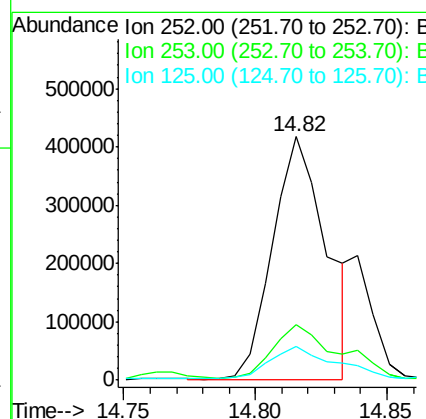
Manual Integrations
APPROVED

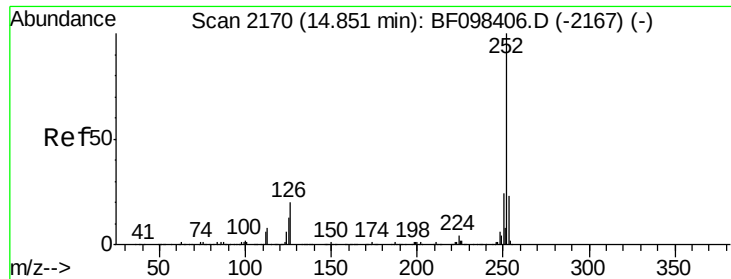
Sohil
9/18/2017 3:33:27 PM



#87
Benzo(b)fluoranthene
Concen: 33.032 ng m
RT: 14.82 min Scan# 2164
Delta R.T. 0.01 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	601489		
253	22.6	18.1	27.1	
125	13.6	9.8	14.8	





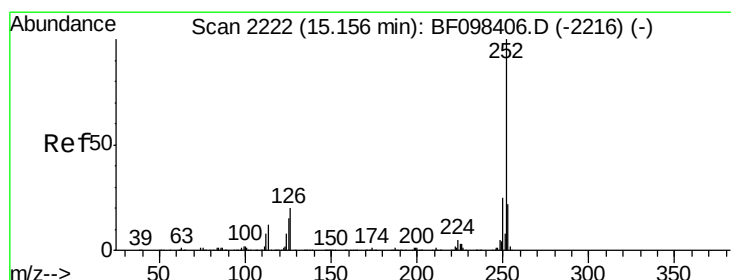
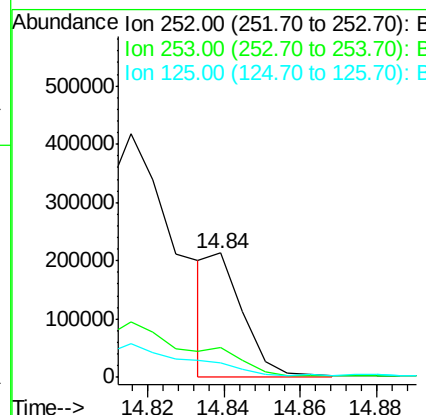
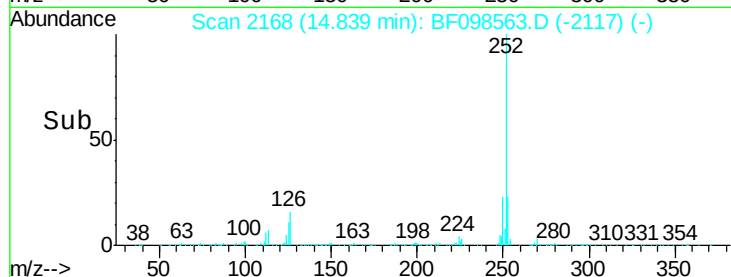
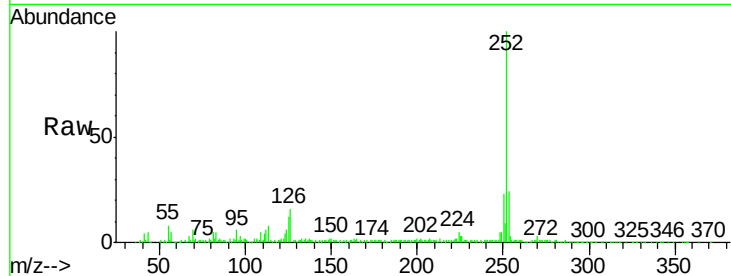
#88
Benzo(k)fluoranthene
Concen: 7.716 ng m
RT: 14.84 min Scan# 2168
Delta R.T. 0.00 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Instrument :
BNA_F
ClientSampled :
G-4

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.4	27.6
125	12.2	13.1	19.7

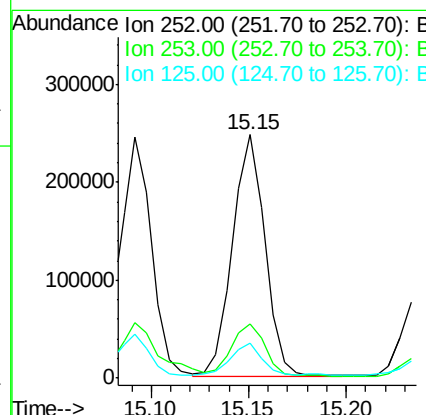
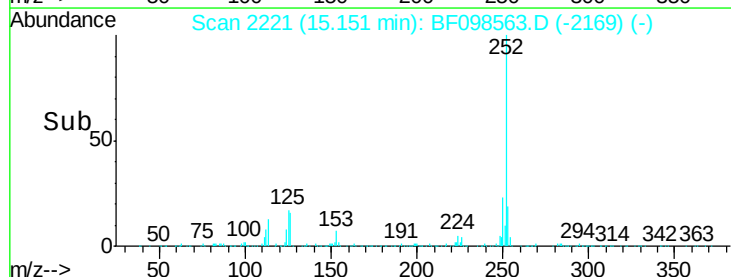
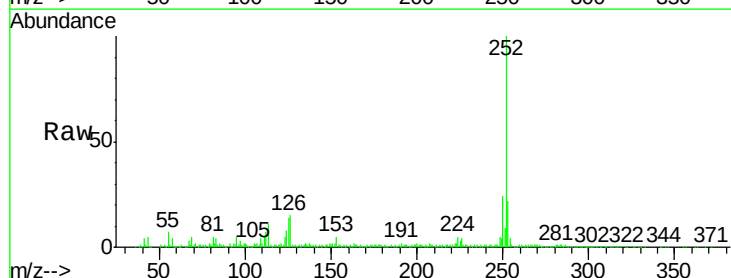
Manual Integrations
APPROVED

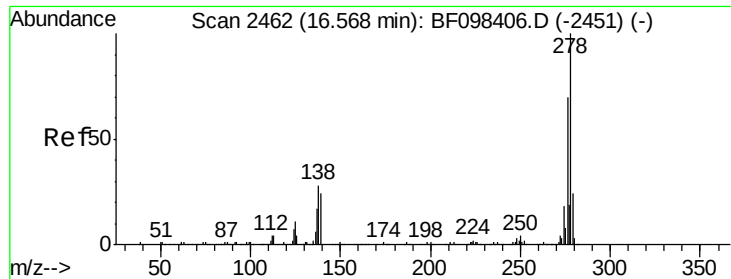
Sohil
9/18/2017 3:33:27 PM



#89
Benzo(a)pyrene
Concen: 17.508 ng
RT: 15.15 min Scan# 2221
Delta R.T. 0.01 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	14.4	11.0	16.4





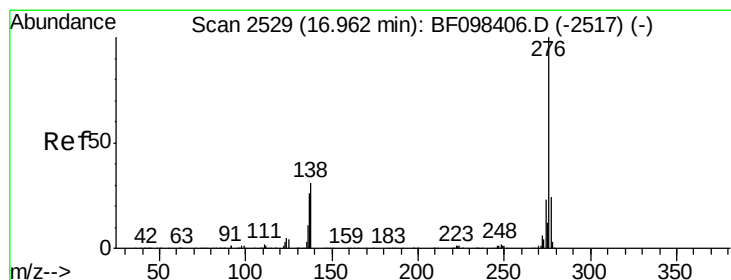
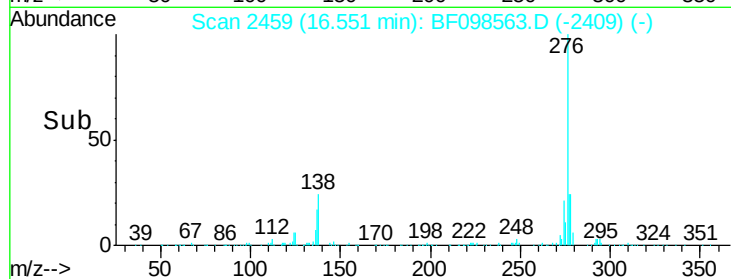
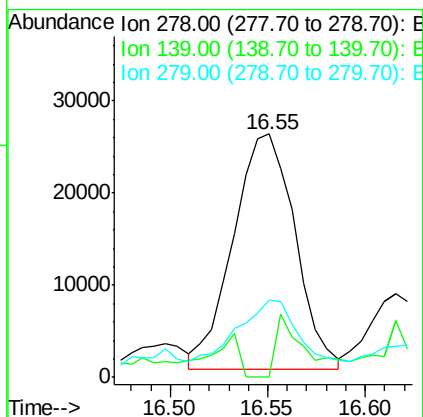
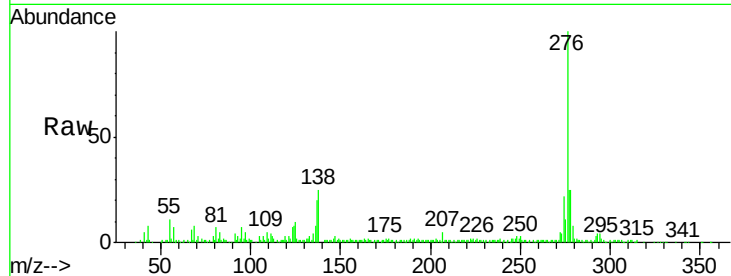
#90
Dibenzo(a,h)anthracene
Concen: 4.771 ng
RT: 16.55 min Scan# 2459
Delta R.T. -0.01 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Instrument :
BNA_F
ClientSampleId :
G-4

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	32.0	19.3	28.9#

Manual Integrations
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Sohil
9/18/2017 3:33:27 PM



#91
Benzo(g,h,i)perylene
Concen: 12.909 ng
RT: 16.95 min Scan# 2527
Delta R.T. 0.01 min
Lab File: BF098563.D
Acq: 15 Sep 2017 12:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.6	28.0
138	26.9	25.4	38.0

