

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090515\
 Data File : BF081518.D
 Acq On : 6 Sep 2015 19:26
 Operator : UM/IZ
 Sample : G3519-02 5X
 Misc :
 ALS Vial : 93 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MGP208BR-14-15

Manual Integrations
 APPROVED

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 9/8/2015 3:59:17 PM

Quant Time: Sep 07 09:30:12 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 07 05:41:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.36	152	47875	20.00	ng	0.00
21) Naphthalene-d8	7.66	136	181244	20.00	ng	0.00
38) Acenaphthene-d10	9.39	164	78285	20.00	ng	0.00
63) Phenanthrene-d10	10.87	188	120008	20.00	ng	0.01
75) Chrysene-d12	13.49	240	107850	20.00	ng	0.02
86) Perylene-d12	14.79	264	73298	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.90	112	54678	17.72	ng	0.01
7) Phenol-d6	6.03	99	65102	15.94	ng	0.00
23) Nitrobenzene-d5	6.94	82	42390m	11.28	ng	-0.01
41) 2,4,6-Tribromophenol	10.18	330	7118	10.21	ng	0.00
44) 2-Fluorobiphenyl	8.73	172	47046	7.70	ng	-0.01
78) Terphenyl-d14	12.45	244	30894	6.67	ng	0.00
Target Compounds						Qvalue
3) Pyridine	2.20	79	358855	93.90	ng	# 23
10) Phenol	6.06	94	58972	12.45	ng	# 30
12) 1,3-Dichlorobenzene	6.30	146	34986	9.63	ng	# 87
13) 1,4-Dichlorobenzene	6.38	146	52552	14.21	ng	# 89
20) 3+4-Methylphenols	6.83	107	52979	14.48	ng	# 70
22) Acetophenone	6.79	105	83988	16.97	ng	# 68
31) Naphthalene	7.68	128	56624	5.86	ng	# 83
48) Acenaphthylene	9.26	152	180037	19.51	ng	96
49) Dimethylphthalate	9.14	163	12875	2.12	ng	# 53
57) Fluorene	9.91	166	22958m	3.95	ng	
70) Phenanthrene	10.89	178	130901	19.62	ng	95
71) Anthracene	10.94	178	58346m	8.51	ng	
74) Fluoranthene	12.08	202	235846	32.65	ng	84
77) Pyrene	12.30	202	587880	73.59	ng	96
80) Benzo(a)anthracene	13.47	228	372354	54.21	ng	# 89
82) Chrysene	13.51	228	239082m	38.83	ng	
85) Indeno(1,2,3-cd)pyrene	15.87	276	82449	18.25	ng	# 84
87) Benzo(b)fluoranthene	14.47	252	229130m	43.79	ng	
88) Benzo(k)fluoranthene	14.48	252	47721m	10.99	ng	
89) Benzo(a)pyrene	14.74	252	154406	34.82	ng	# 85
90) Dibenzo(a,h)anthracene	15.87	278	31469	9.18	ng	# 76
91) Benzo(g,h,i)perylene	16.19	276	100365	30.69	ng	# 75

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

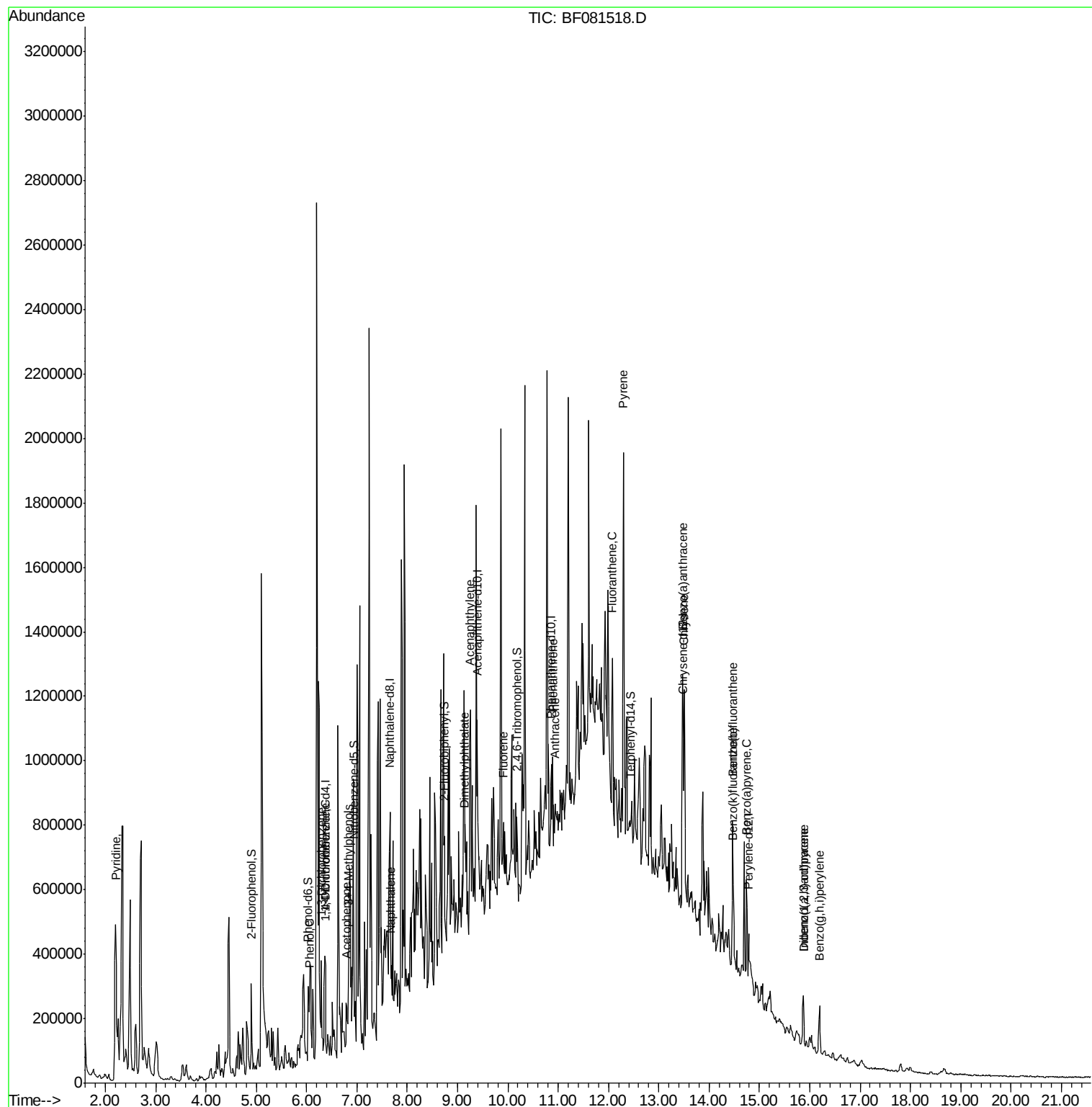
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QLast Update : Mon Sep 07 05:41:57 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.36 min Scan# 418

Delta R.T. -0.00 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

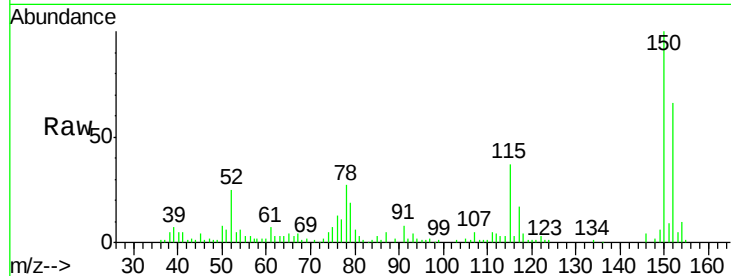
ClientSampleId :

MGP208BR-14-15

Tgt Ion:	152	Resp:	47875
Ion Ratio	Lower	Upper	
152	100		
150	150.7	124.7	187.1
115	56.3	39.0	58.4

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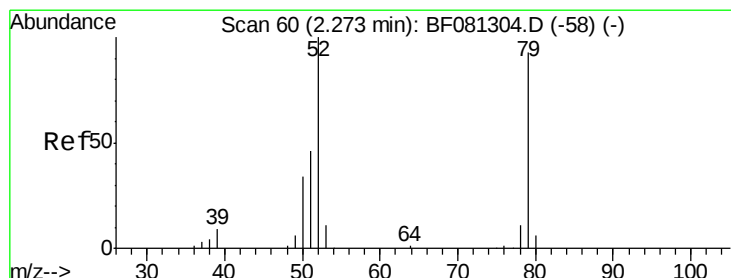
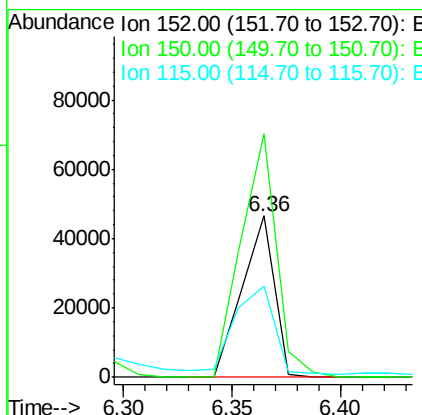
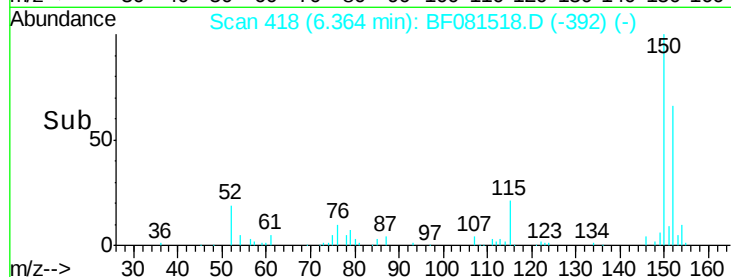
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#3

Pyridine

Concen: 93.90 ng

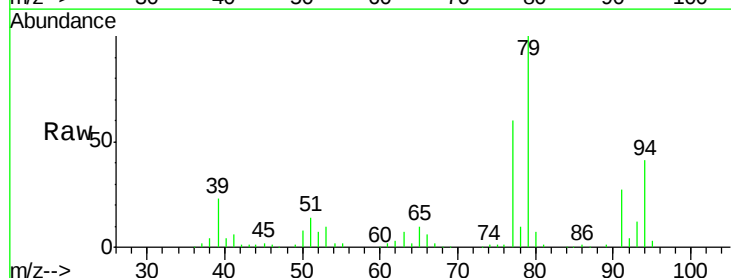
RT: 2.20 min Scan# 54

Delta R.T. -0.01 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

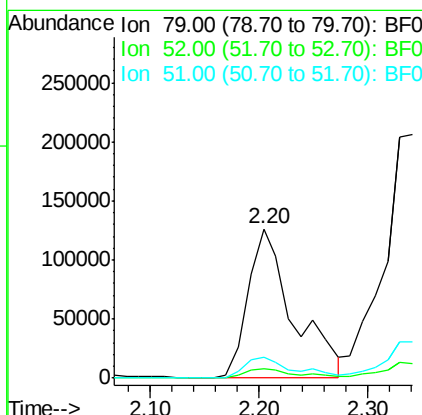
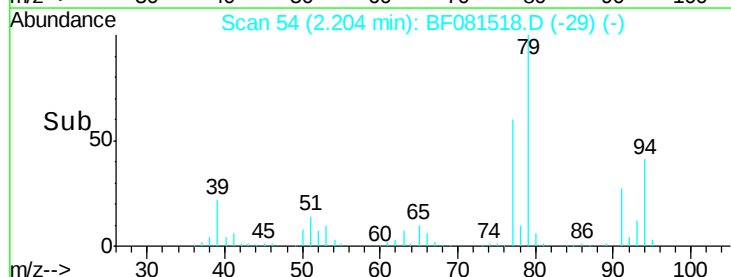
Tgt Ion:	79	Resp:	358855
Ion Ratio	Lower	Upper	
79	100		
52	6.7	76.8	115.2#
51	14.2	32.2	48.4#

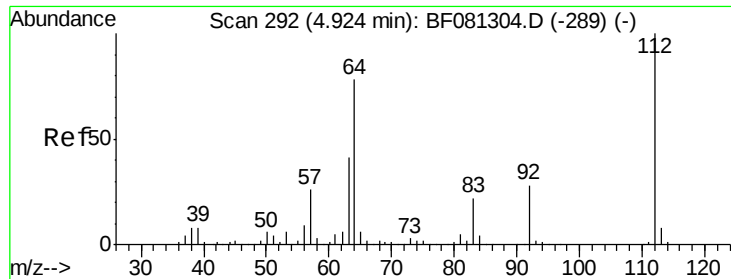


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0





#5

2-Fluorophenol

Concen: 17.72 ng

RT: 4.90 min Scan# 290

Delta R.T. 0.01 min

Lab File: BF081518.D

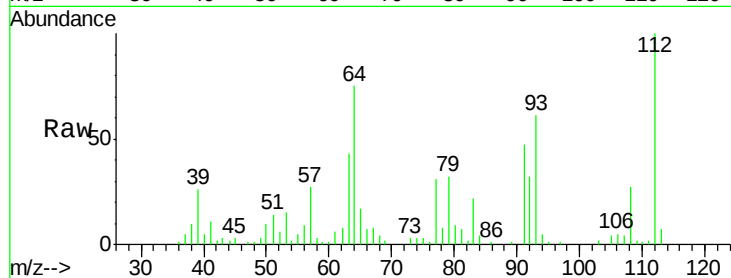
Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

ClientSampleId :

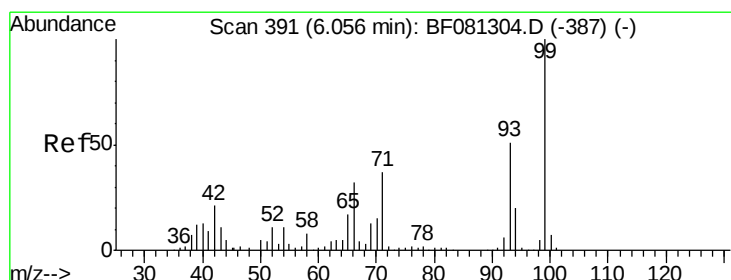
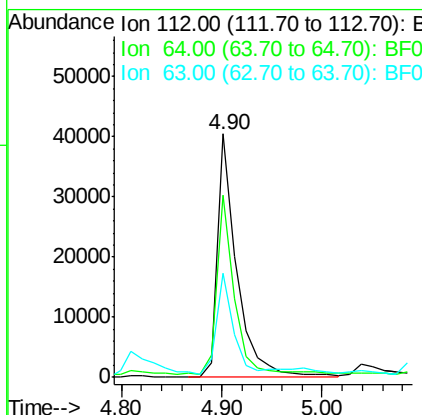
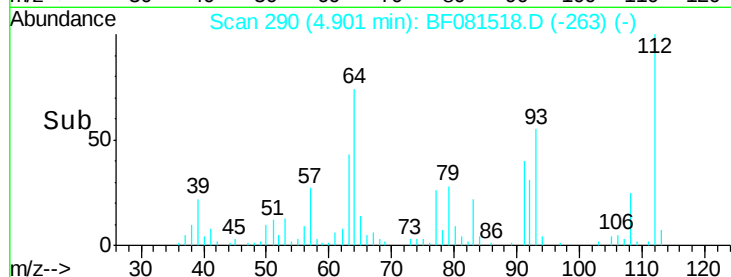
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Tgt Ion:	112	Resp:	54678
Ion Ratio	Lower	Upper	
112	100		
64	74.9	39.7	59.5#
63	43.0	17.4	26.0#

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#7

Phenol-d6

Concen: 15.94 ng

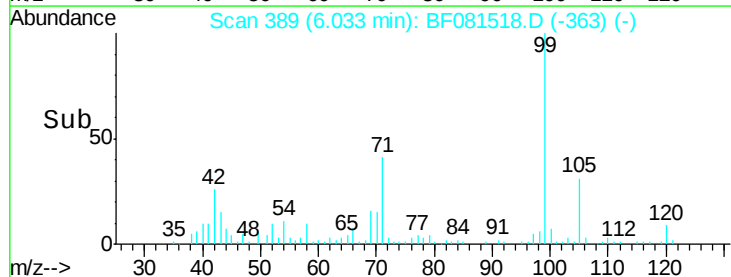
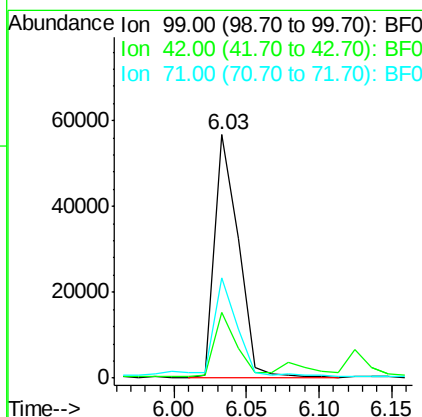
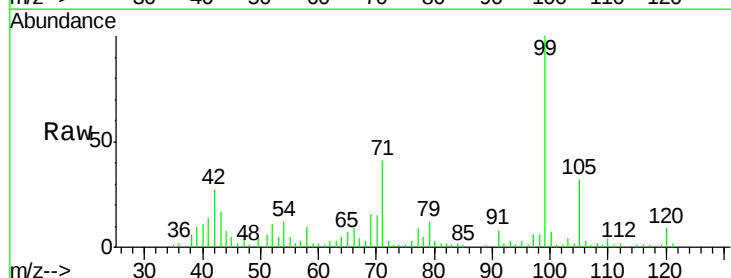
RT: 6.03 min Scan# 389

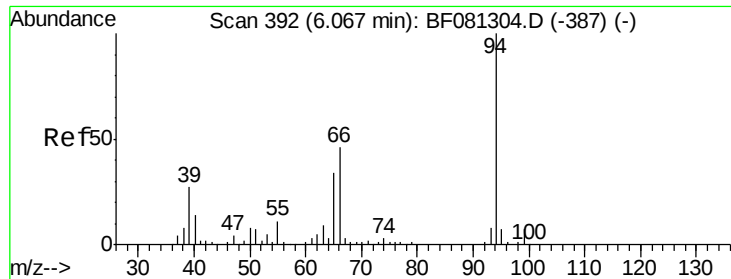
Delta R.T. -0.00 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Tgt Ion:	99	Resp:	65102
Ion Ratio	Lower	Upper	
99	100		
42	26.9	13.7	20.5#
71	41.3	14.2	21.2#





#10

Phenol

Concen: 12.45 ng

RT: 6.06 min Scan# 391

Delta R.T. 0.01 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

ClientSampleId :

MGP208BR-14-15

Tgt Ion: 94 Resp: 58972

Ion Ratio Lower Upper

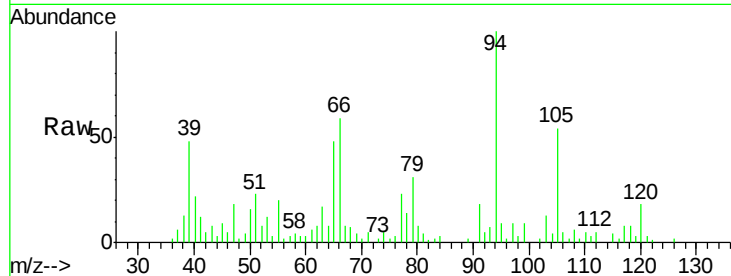
94 100

65 47.8 0.7 40.7#

66 58.5 0.8 40.8#

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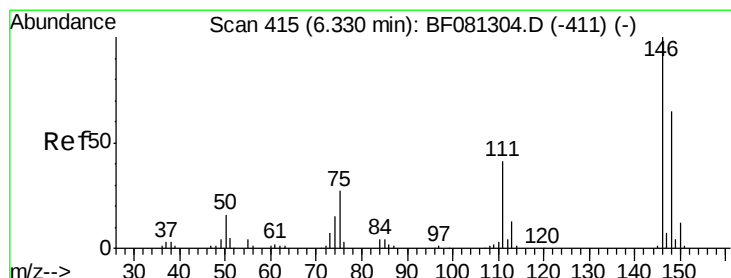
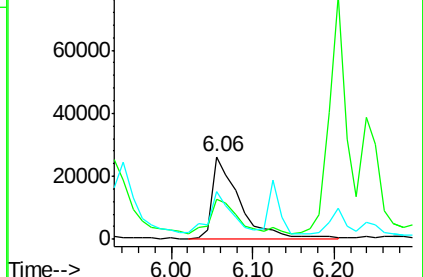
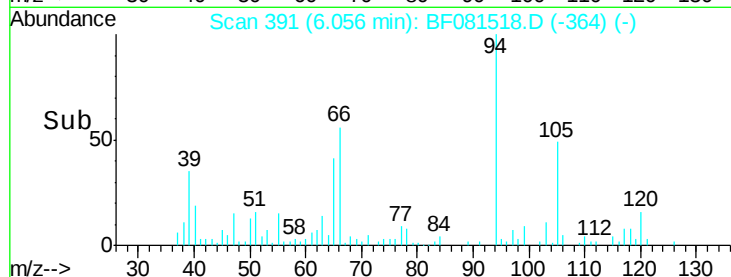
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Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#12

1,3-Dichlorobenzene

Concen: 9.63 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.00 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

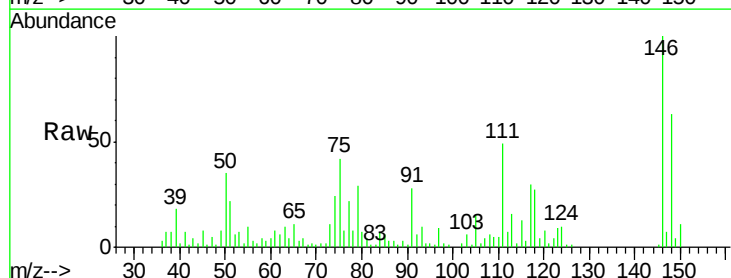
Tgt Ion: 146 Resp: 34986

Ion Ratio Lower Upper

146 100

148 62.8 51.0 76.4

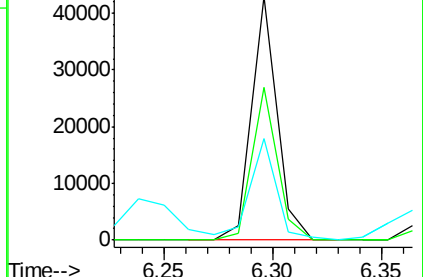
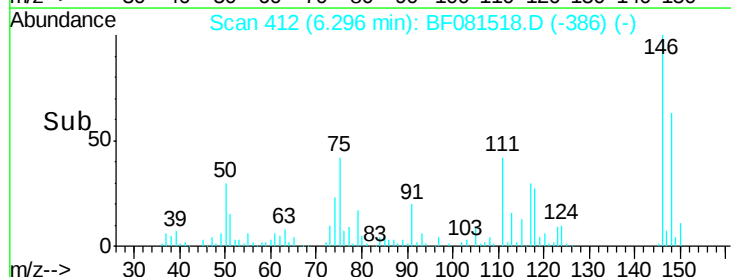
75 41.9 15.0 22.6#

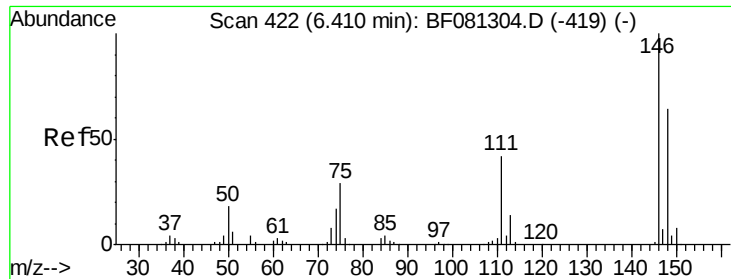


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0





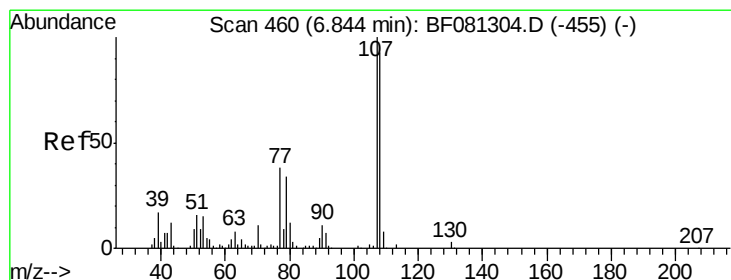
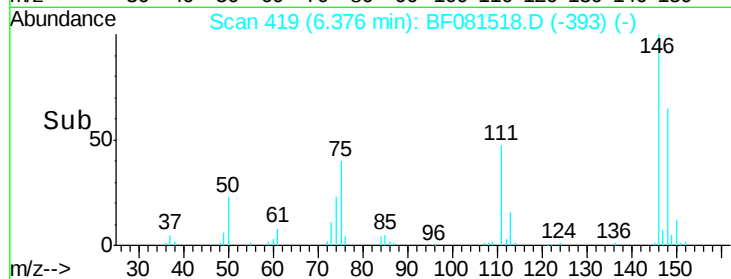
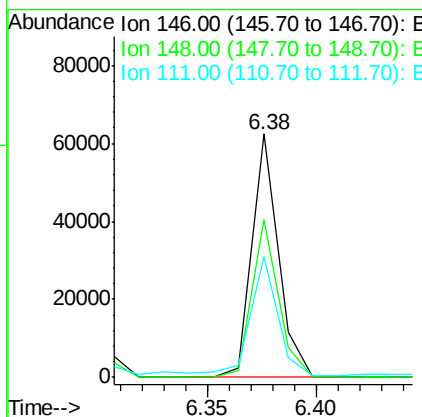
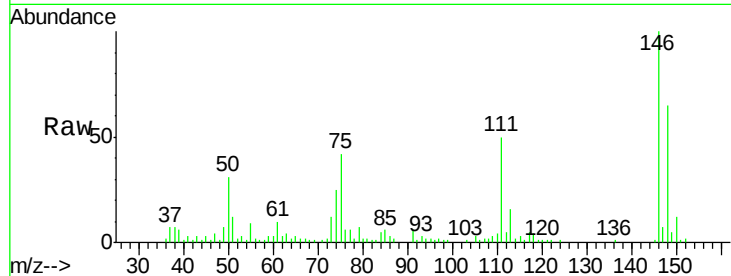
#13
 1,4-Dichlorobenzene
 Concen: 14.21 ng
 RT: 6.38 min Scan# 419
 Delta R.T. -0.00 min
 Lab File: BF081518.D
 Acq: 6 Sep 2015 19:26

Instrument :
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 ClientSampleId :
 MGP208BR-14-15

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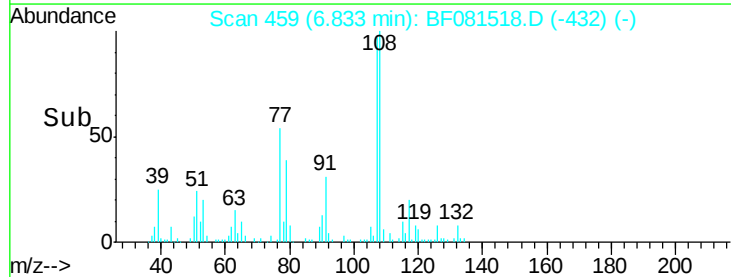
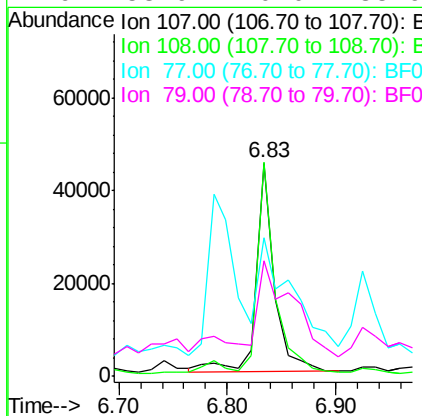
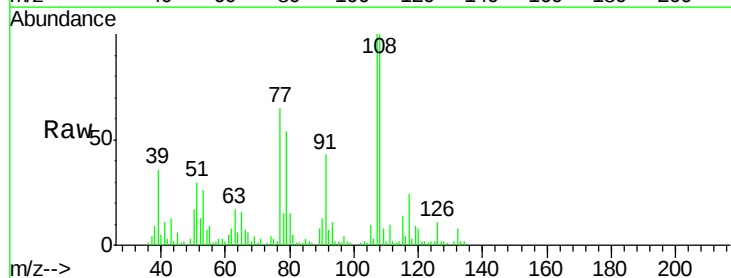
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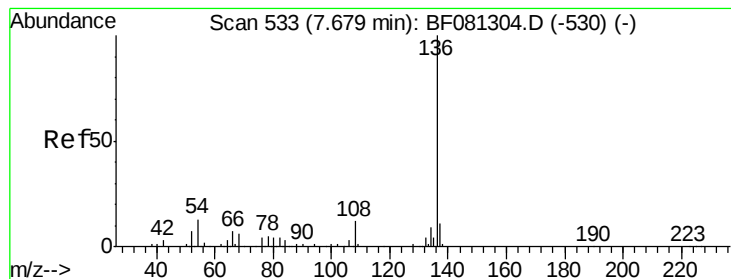
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	52552		
148	64.7	51.8	77.6	
111	49.8	24.9	37.3#	



#20
 3+4-Methylphenols
 Concen: 14.48 ng
 RT: 6.83 min Scan# 459
 Delta R.T. 0.01 min
 Lab File: BF081518.D
 Acq: 6 Sep 2015 19:26

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	52979		
108	100.2	74.6	114.6	
77	64.7	0.7	40.7#	
79	53.9	0.0	38.9#	





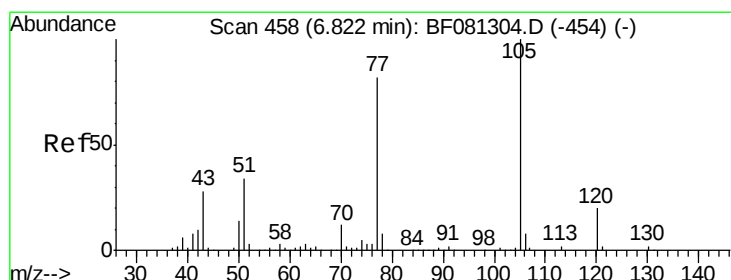
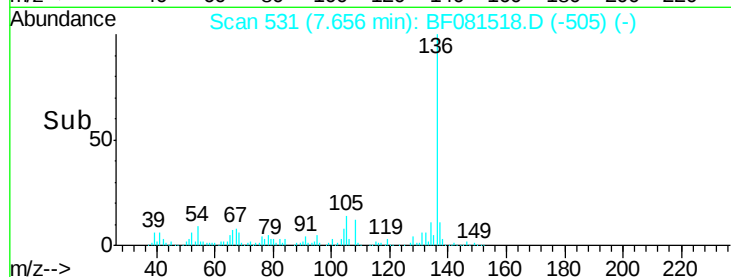
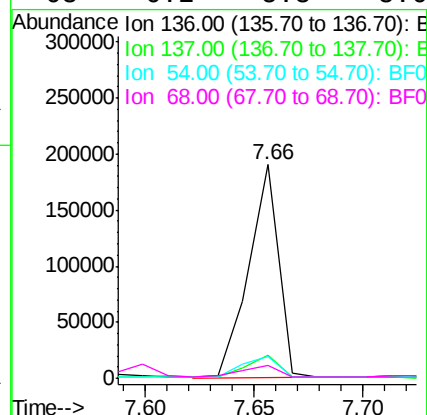
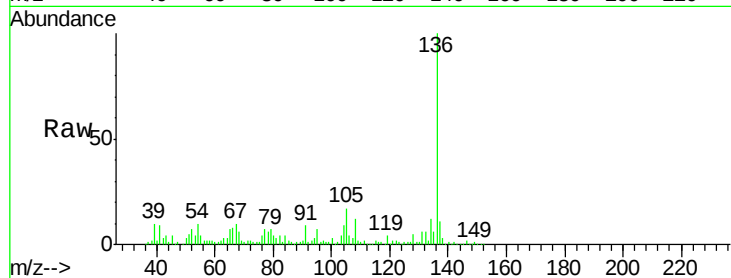
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.66 min Scan# 531
Delta R.T. -0.00 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

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Tgt Ion	Ratio	Resp	Lower	Upper
136	100	181244		
137	10.6	9.0	13.6	
54	10.0	8.2	12.2	
68	6.2	5.8	8.6	

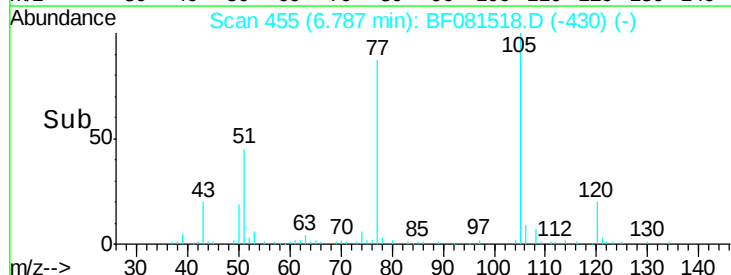
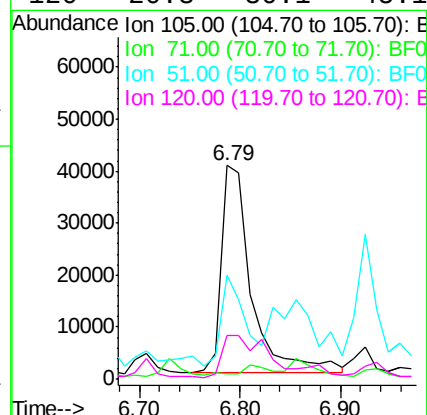
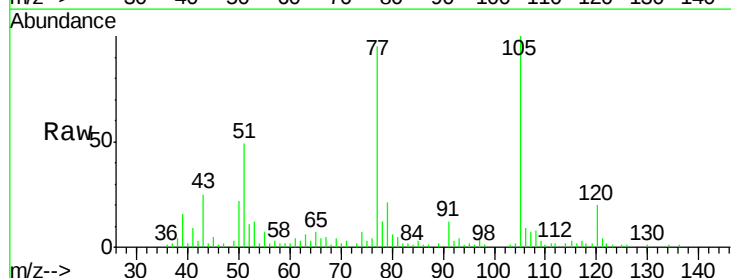
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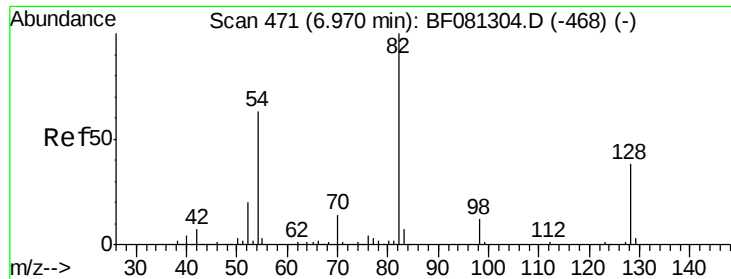
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#22
Acetophenone
Concen: 16.97 ng
RT: 6.79 min Scan# 455
Delta R.T. -0.01 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	83988		
71	2.7	4.7	7.1#	
51	48.8	22.0	33.0#	
120	20.3	30.1	45.1#	





#23

Nitrobenzene-d5

Concen: 11.28 ng m

RT: 6.94 min Scan# 468

Delta R.T. -0.01 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

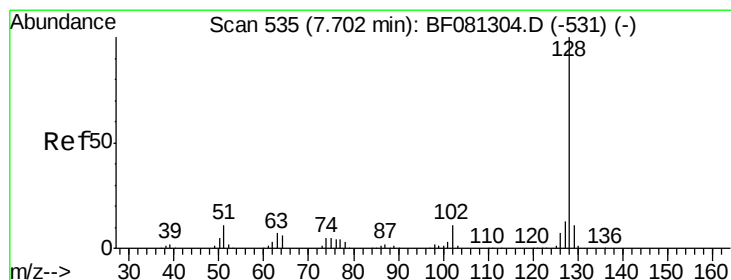
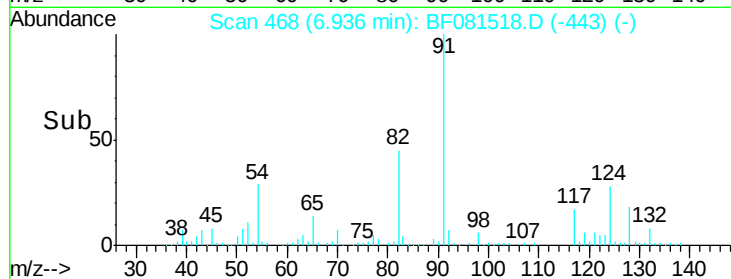
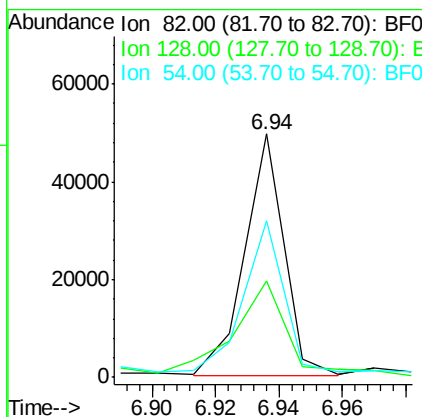
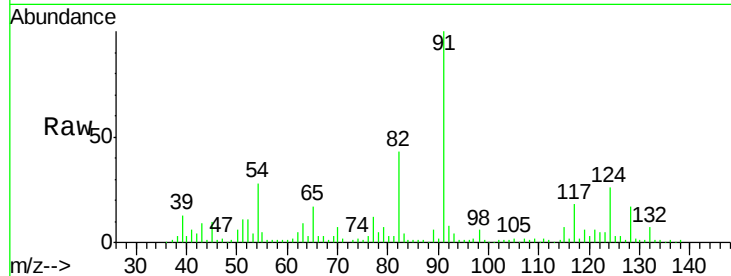
ClientSampleId :

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Tgt Ion:	82	Resp:	42390
Ion Ratio	Lower	Upper	
82	100		
128	39.4	51.0	76.6#
54	64.3	47.5	71.3

Manual Integrations
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#31

Naphthalene

Concen: 5.86 ng

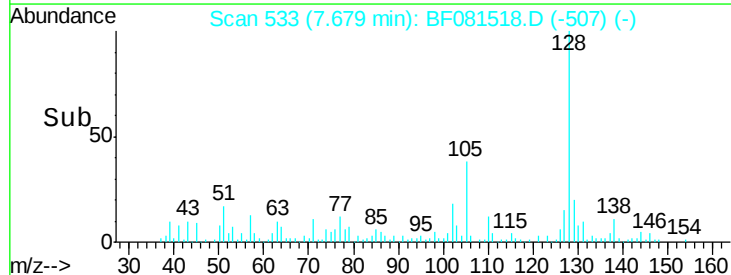
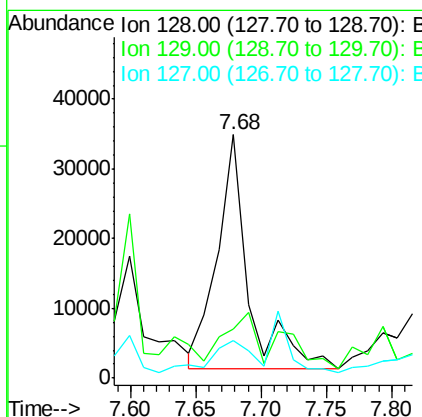
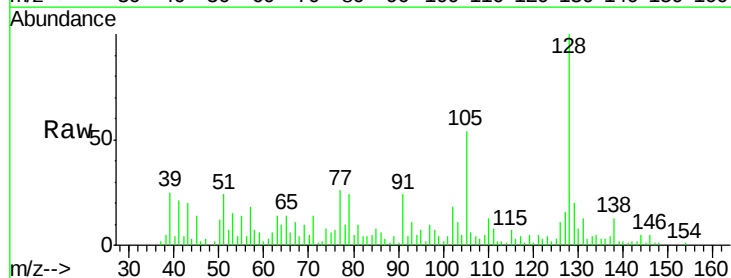
RT: 7.68 min Scan# 533

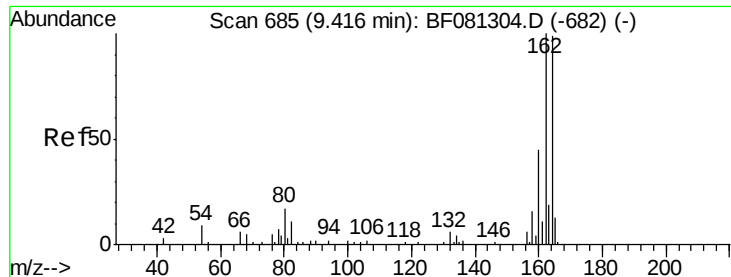
Delta R.T. -0.00 min

Lab File: BF081518.D

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Tgt Ion:	128	Resp:	56624
Ion Ratio	Lower	Upper	
128	100		
129	20.3	8.4	12.6#
127	15.7	9.9	14.9#





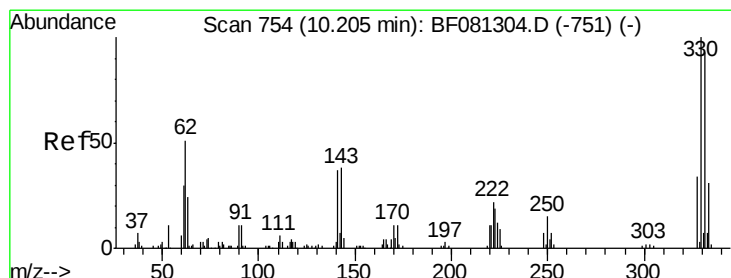
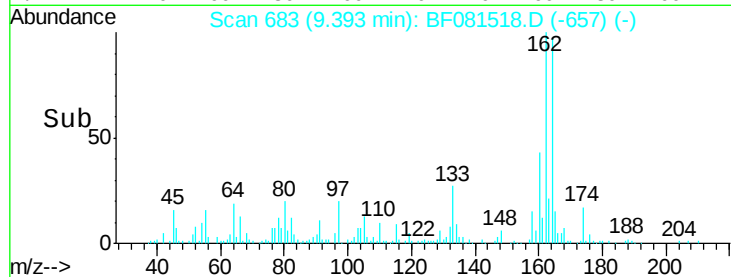
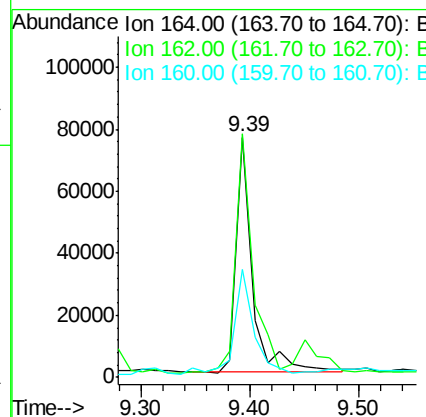
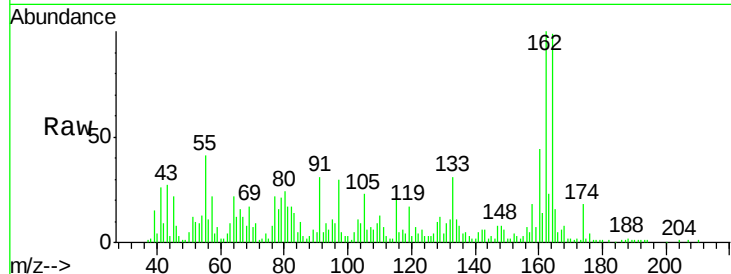
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.39 min Scan# 683
Delta R.T. -0.00 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Instrument :
BNA_F
ClientSampleId :
MGP208BR-14-15

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	78285		
162	101.3	75.2	112.8	
160	45.1	31.5	47.3	

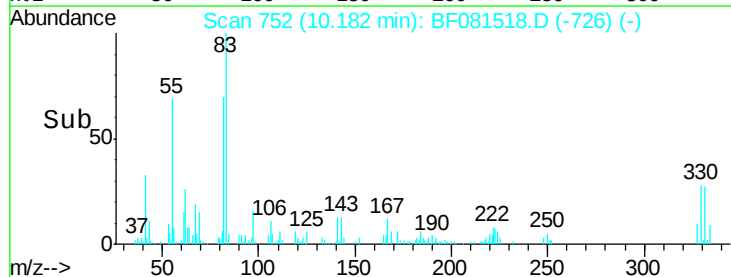
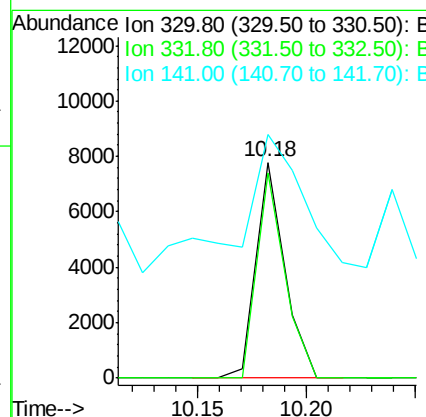
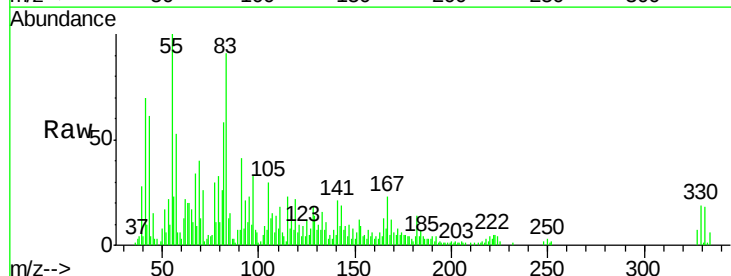
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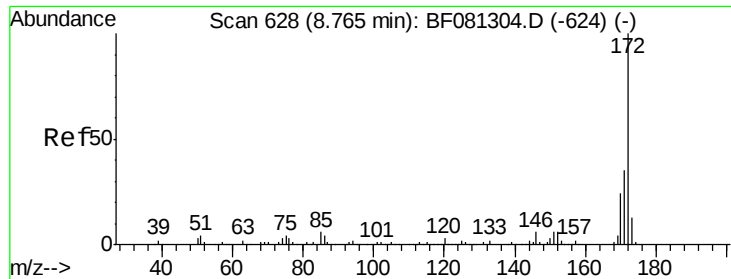
MMDadoda
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#41
2,4,6-Tribromophenol
Concen: 10.21 ng
RT: 10.18 min Scan# 752
Delta R.T. -0.00 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

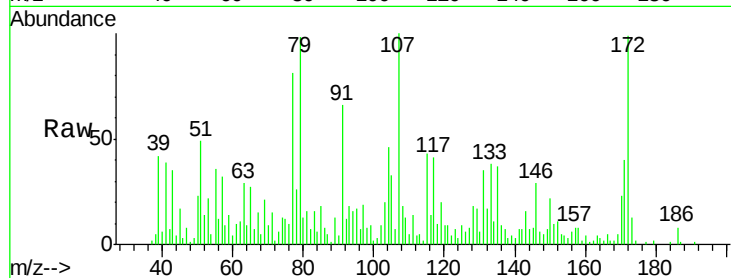
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	7118		
332	92.9	76.6	114.8	
141	129.1	29.7	44.5#	





#44
2-Fluorobiphenyl
Concen: 7.70 ng
RT: 8.73 min Scan# 625
Delta R.T. -0.01 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

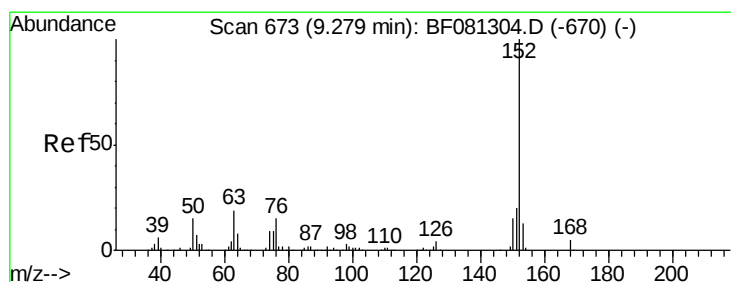
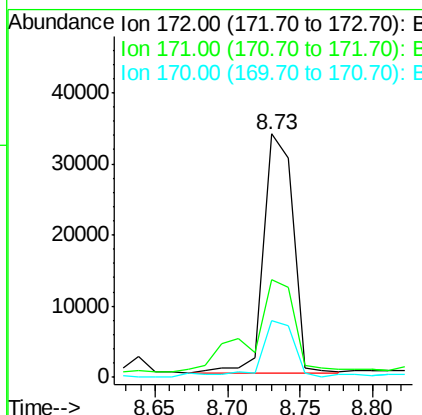
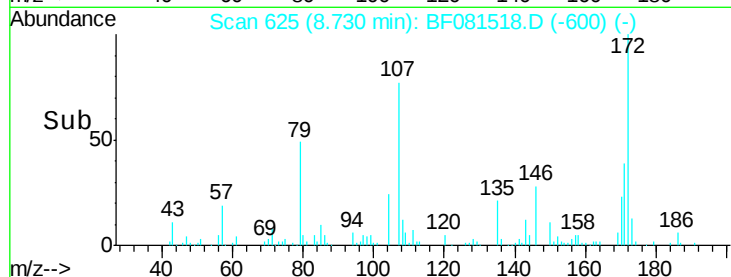
Instrument :
BNA_F
ClientSampleId :
MGP208BR-14-15



Tgt Ion	Ratio	Lower	Upper
172	100		
171	40.4	26.1	39.1#
170	23.5	17.4	26.2

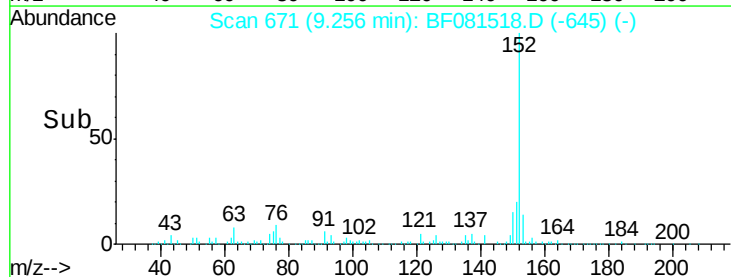
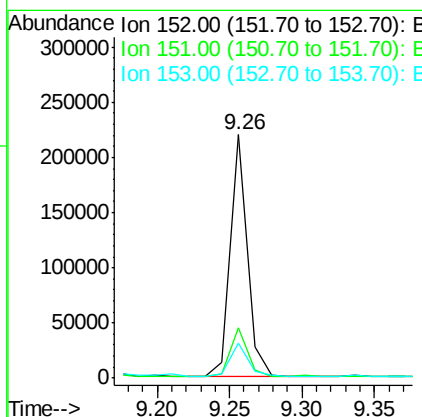
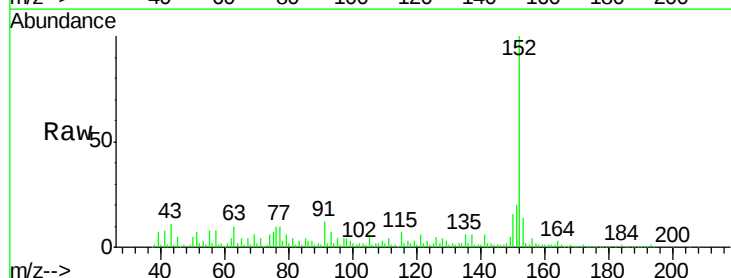
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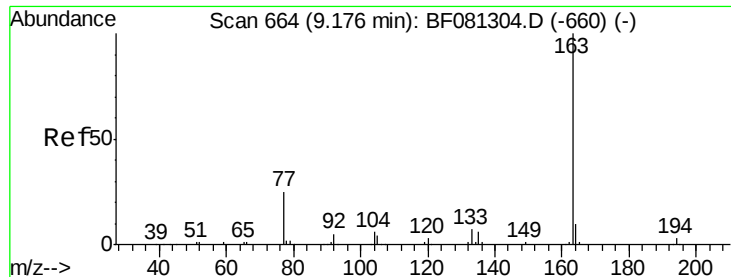
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#48
Acenaphthylene
Concen: 19.51 ng
RT: 9.26 min Scan# 671
Delta R.T. -0.00 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

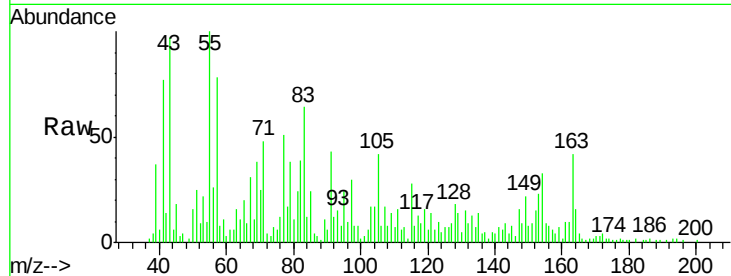
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	14.6	22.0
153	14.3	10.3	15.5





#49
Dimethylphthalate
Concen: 2.12 ng
RT: 9.14 min Scan# 661
Delta R.T. -0.01 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

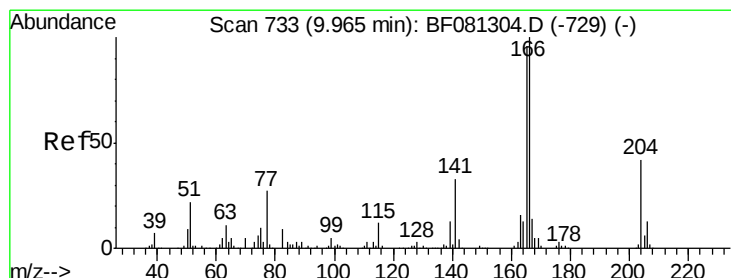
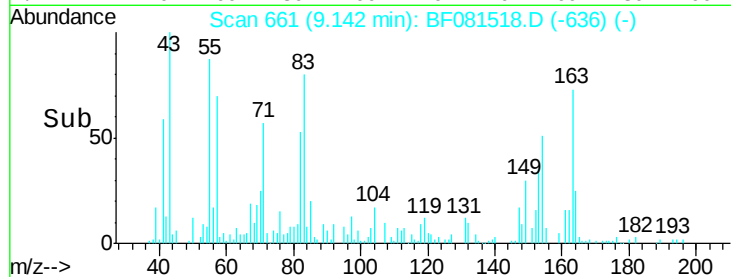
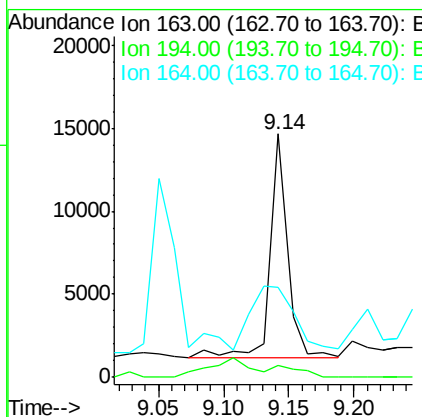
Instrument :
BNA_F
ClientSampleId :
MGP208BR-14-15



Tgt Ion:	163	Resp:	12875
Ion Ratio	Lower	Upper	
163	100		
194	5.2	4.4	6.6
164	36.9	8.3	12.5#

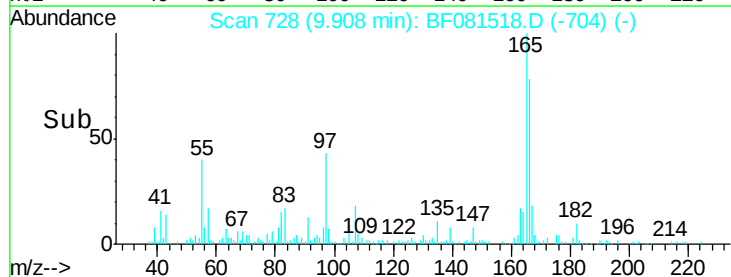
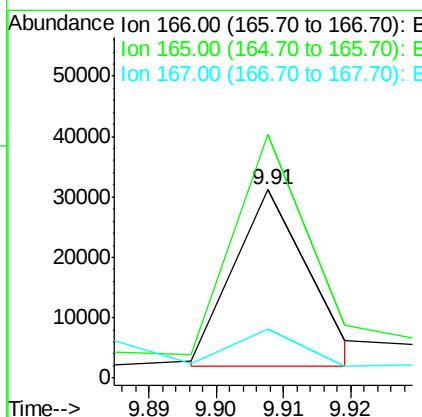
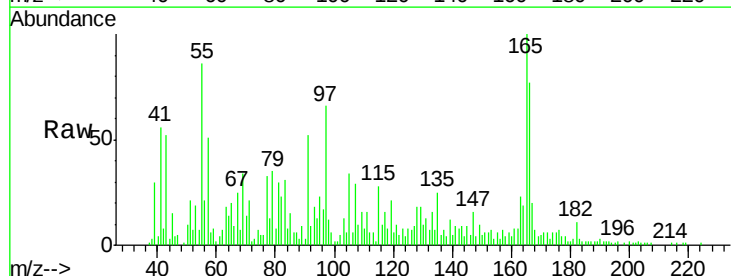
Manual Integrations
APPROVED

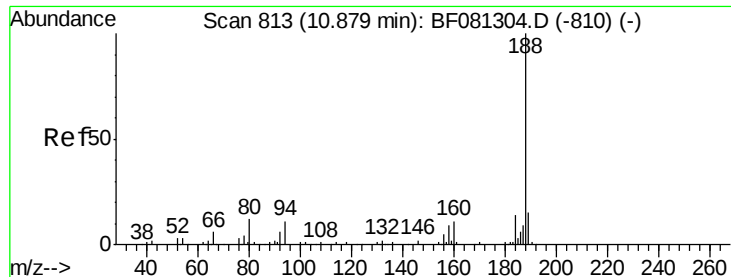
MMDadoda
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#57
Fluorene
Concen: 3.95 ng m
RT: 9.91 min Scan# 728
Delta R.T. -0.02 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Tgt Ion:	166	Resp:	22958
Ion Ratio	Lower	Upper	
166	100		
165	129.5	72.6	109.0#
167	26.2	10.6	16.0#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.87 min Scan# 812

Delta R.T. 0.01 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

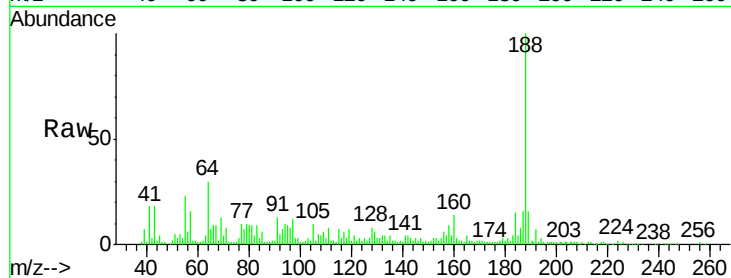
ClientSampleId :

MGP208BR-14-15

Tgt Ion:	188	Resp:	120008
Ion Ratio	Lower	Upper	
188	100		
94	9.7	11.1	16.7#
80	9.2	11.0	16.4#

Manual Integrations
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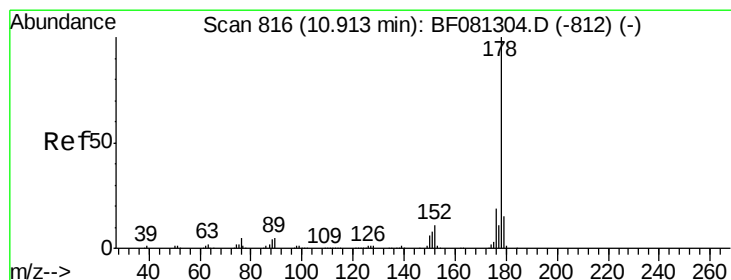
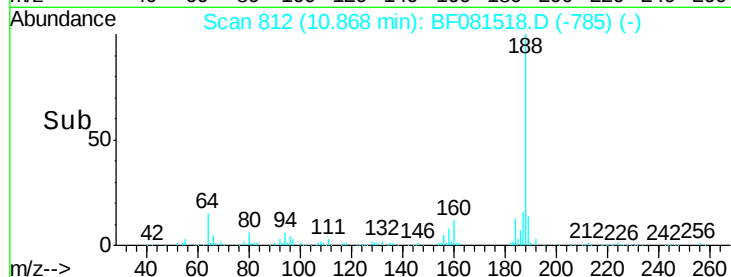
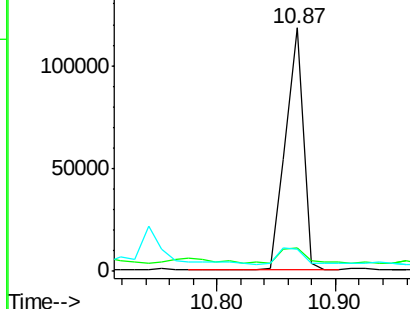
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 19.62 ng

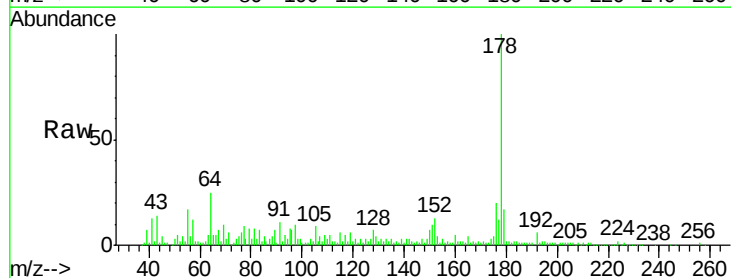
RT: 10.89 min Scan# 814

Delta R.T. 0.01 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

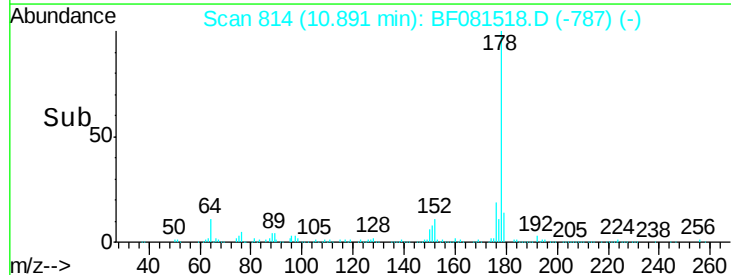
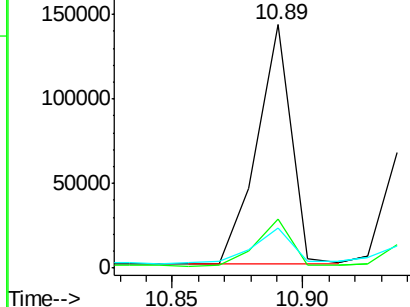
Tgt Ion:	178	Resp:	130901
Ion Ratio	Lower	Upper	
178	100		
176	20.3	13.8	20.8
179	16.6	12.2	18.2

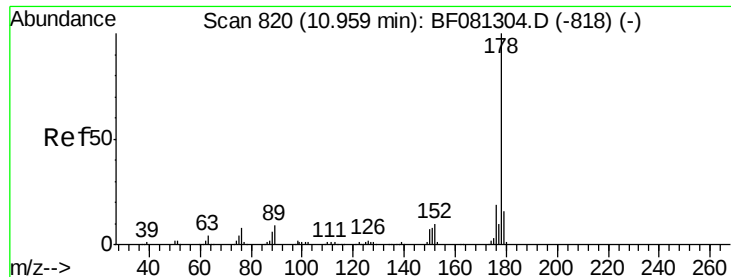


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 8.51 ng m

RT: 10.94 min Scan# 818

Delta R.T. -0.00 min

Lab File: BF081518.D

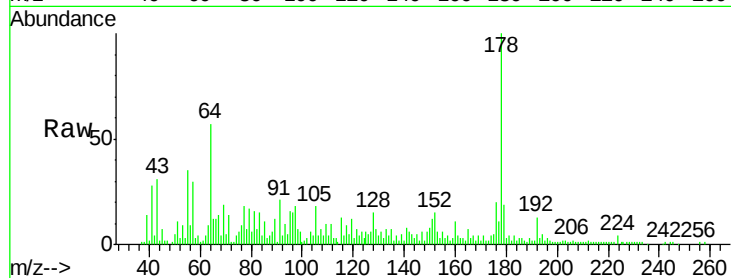
Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

ClientSampleId :

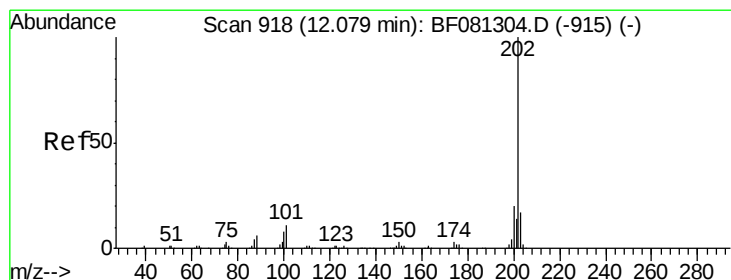
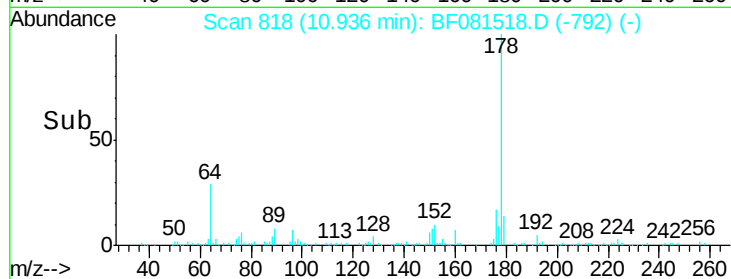
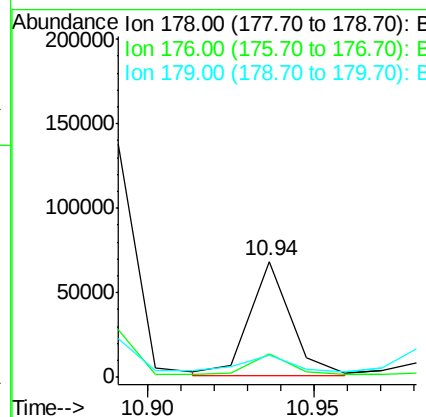
MGP208BR-14-15



Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	14.1	21.1
179	19.3	12.2	18.2

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#74

Fluoranthene

Concen: 32.65 ng

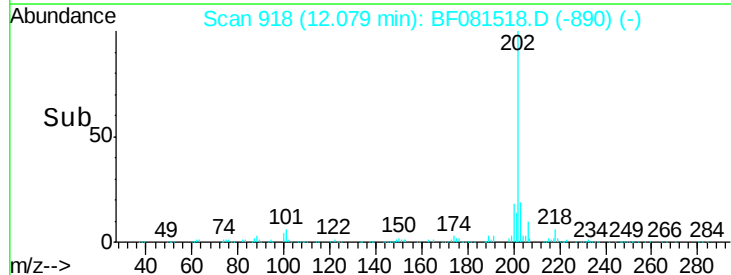
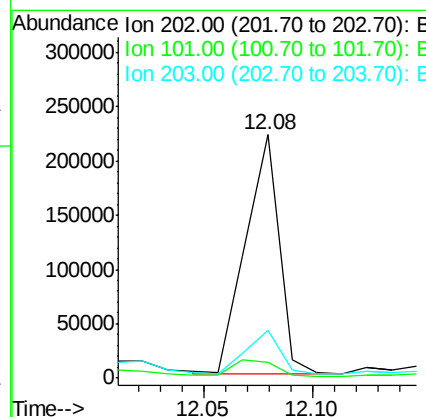
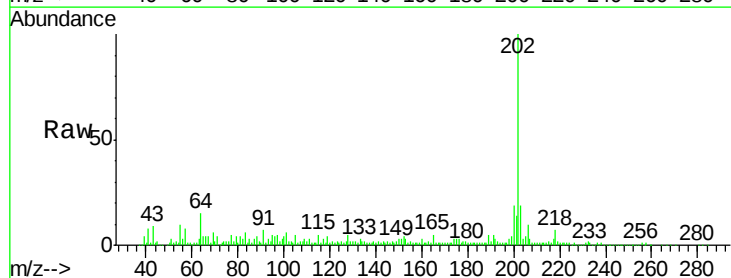
RT: 12.08 min Scan# 918

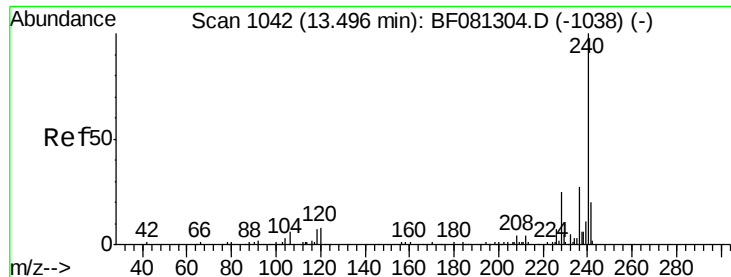
Delta R.T. 0.02 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.3	0.0	38.3
203	19.4	0.0	37.3





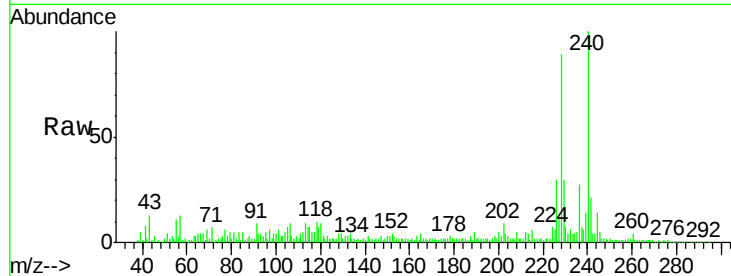
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.49 min Scan# 1041
Delta R.T. 0.02 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Instrument :
BNA_F
ClientSampleId :
MGP208BR-14-15

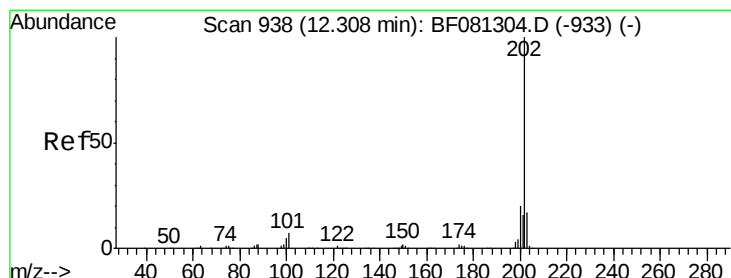
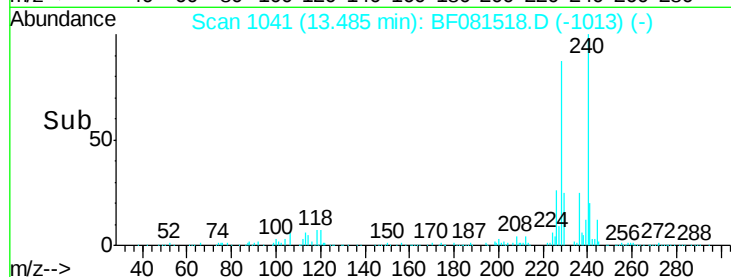
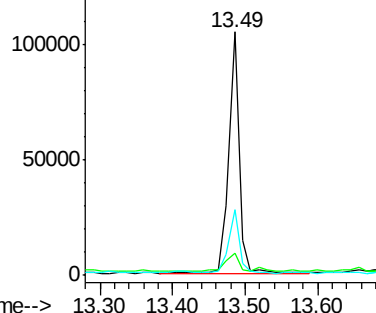
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	107850		
120	9.2	16.2	24.2#	
236	27.2	18.4	27.6	

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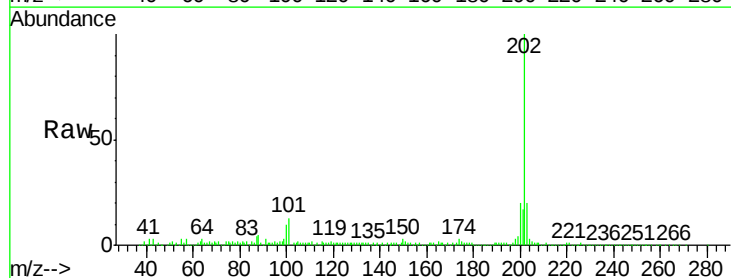


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

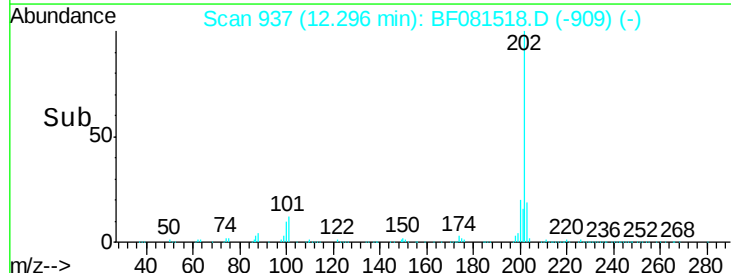
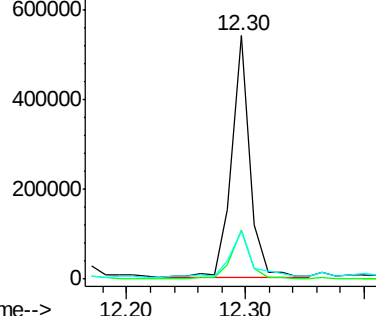


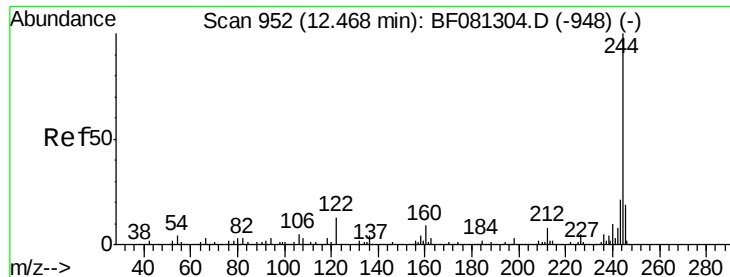
#77
Pyrene
Concen: 73.59 ng
RT: 12.30 min Scan# 937
Delta R.T. 0.02 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	587880		
200	20.3	15.0	22.4	
203	19.5	14.1	21.1	



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 6.67 ng

RT: 12.45 min Scan# 950

Delta R.T. -0.00 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

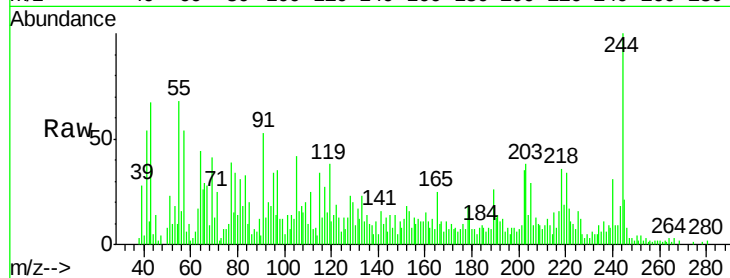
ClientSampleId :

MGP208BR-14-15

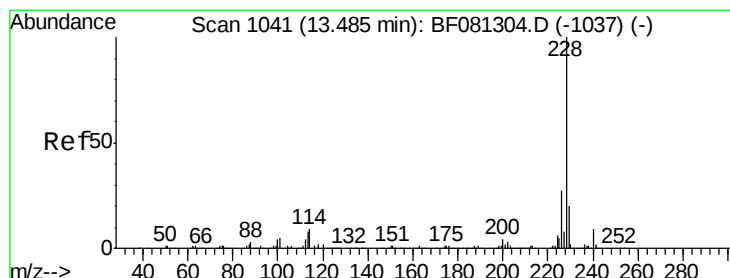
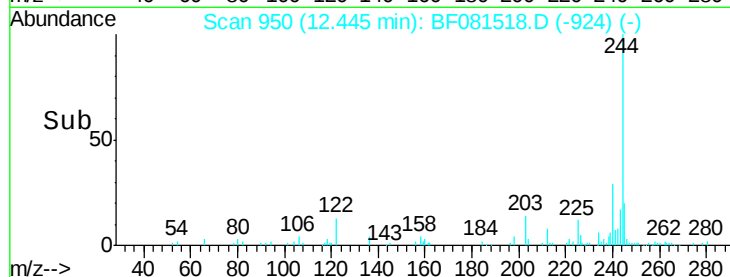
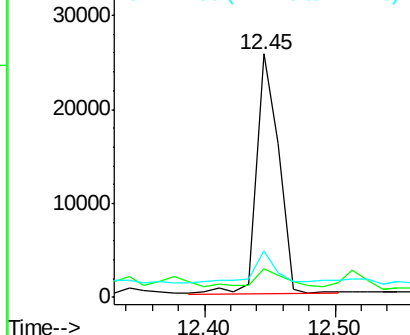
Tgt Ion:	244	Resp:	30894
Ion Ratio	Lower	Upper	
244	100		
212	11.9	4.3	6.5#
122	19.3	17.4	26.2

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 54.21 ng

RT: 13.47 min Scan# 1040

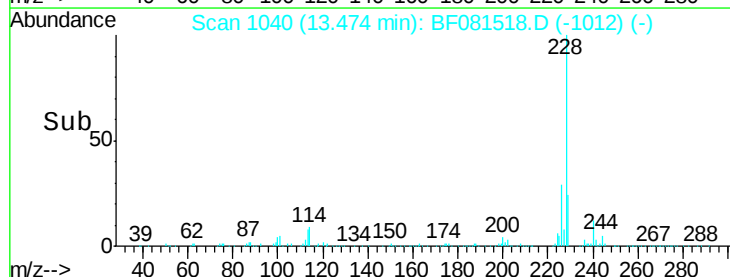
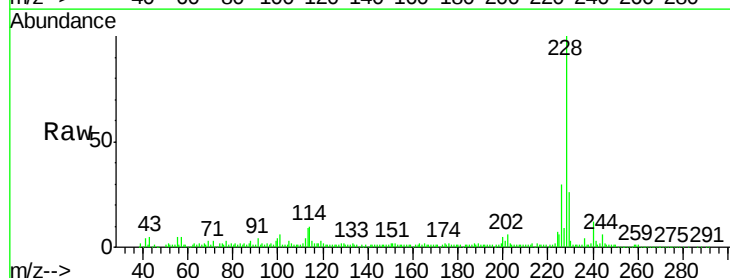
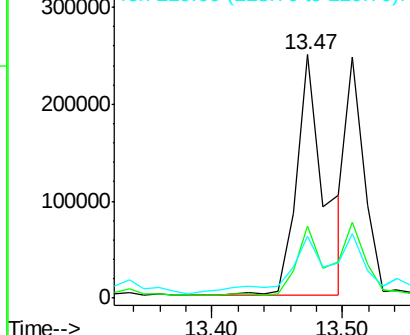
Delta R.T. 0.02 min

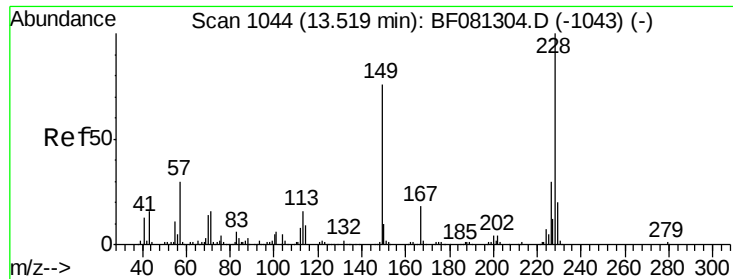
Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Tgt Ion:	228	Resp:	372354
Ion Ratio	Lower	Upper	
228	100		
226	29.8	20.0	30.0
229	25.5	15.4	23.2#

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





#82

Chrysene

Concen: 38.83 ng m

RT: 13.51 min Scan# 1043

Delta R.T. 0.01 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

Instrument :

BNA_F

ClientSampleId :

MGP208BR-14-15

Tgt Ion: 228 Resp: 239082

Ion Ratio Lower Upper

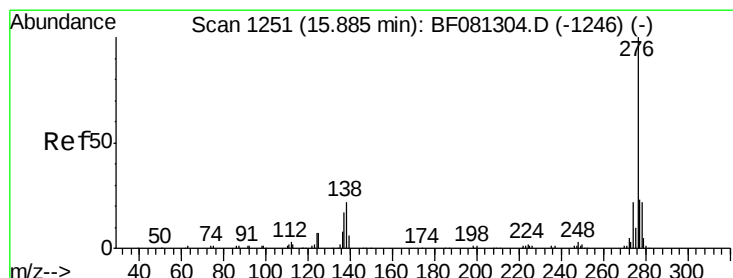
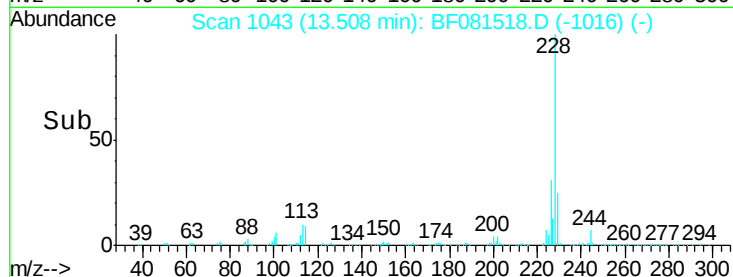
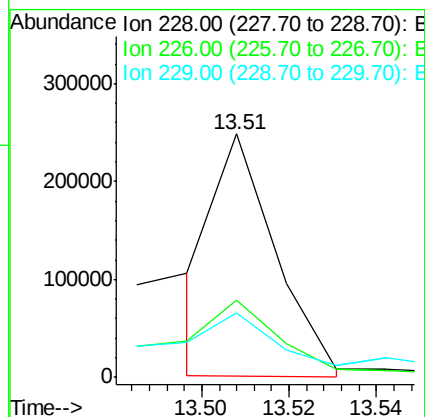
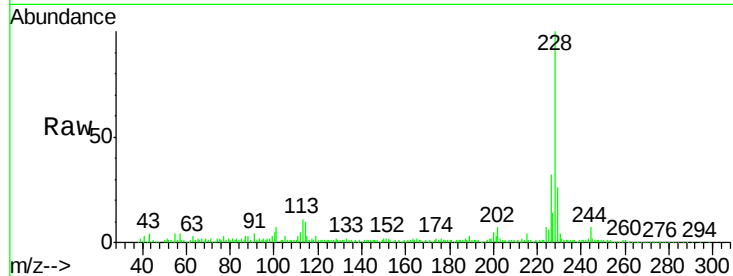
228 100

226 31.7 21.0 31.4#

229 26.5 15.6 23.4#

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 18.25 ng

RT: 15.87 min Scan# 1250

Delta R.T. 0.02 min

Lab File: BF081518.D

Acq: 6 Sep 2015 19:26

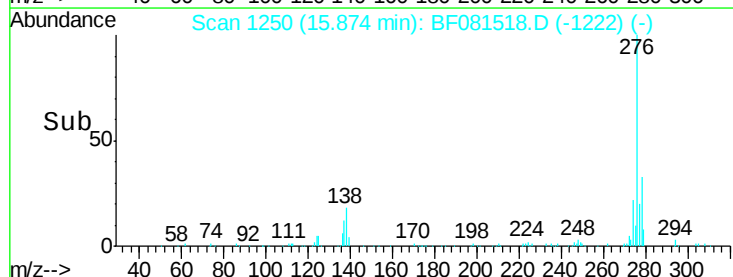
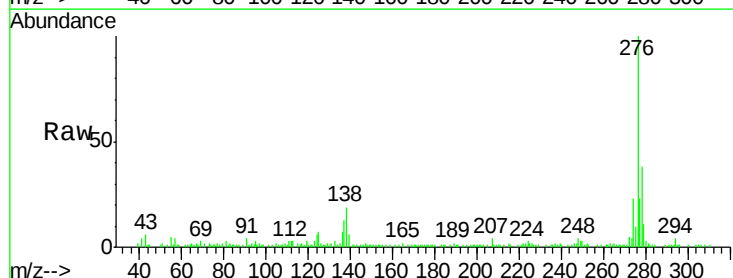
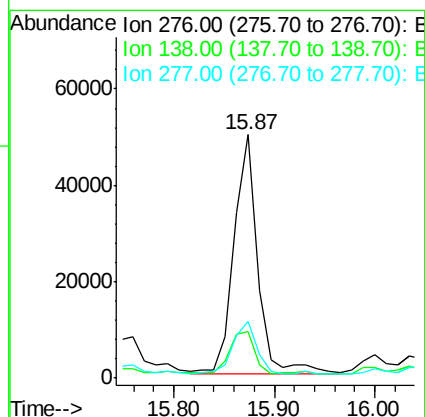
Tgt Ion: 276 Resp: 82449

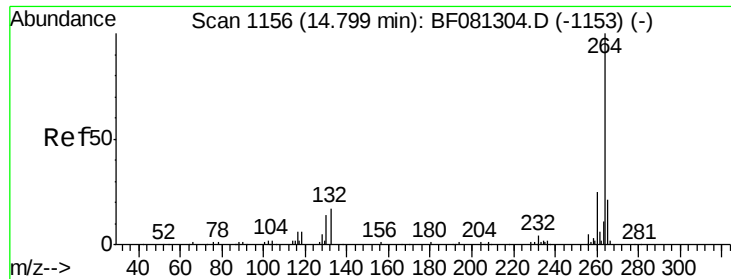
Ion Ratio Lower Upper

276 100

138 20.1 25.7 38.5#

277 23.3 15.6 23.4





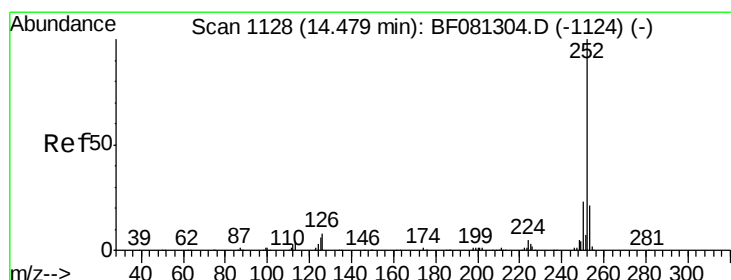
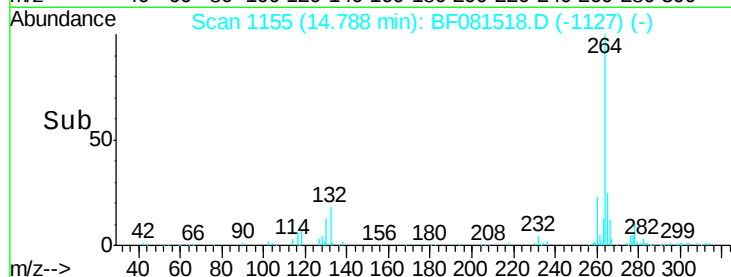
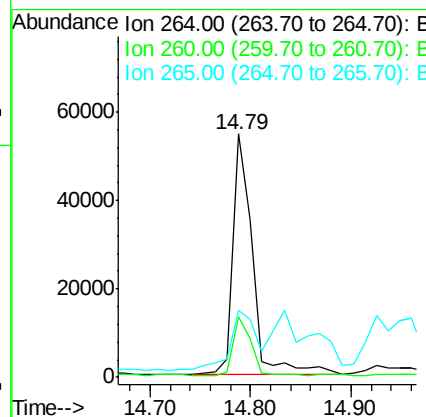
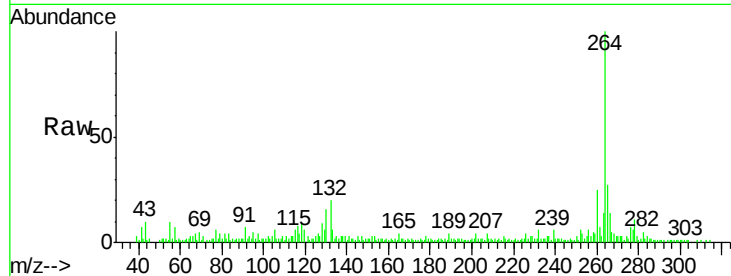
#86
Perylene-d12
Concen: 20.00 ng
RT: 14.79 min Scan# 1155
Delta R.T. 0.02 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Instrument :
BNA_F
ClientSampleId :
MGP208BR-14-15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	16.7	25.1
265	27.5	17.2	25.8

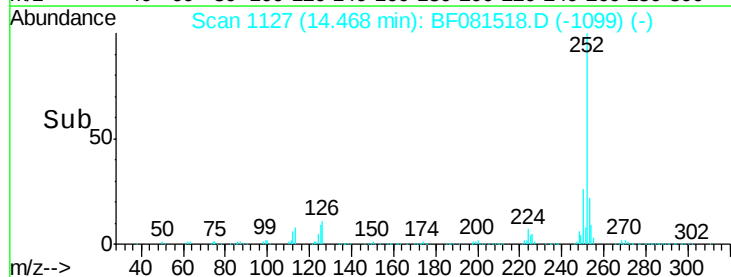
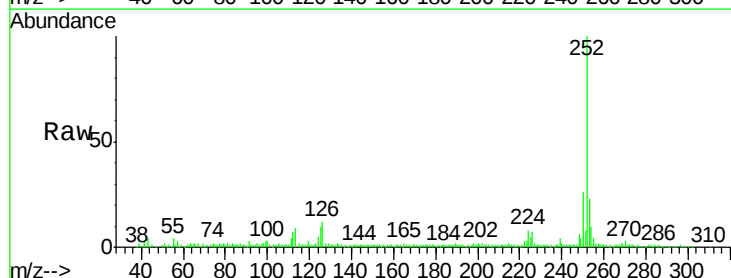
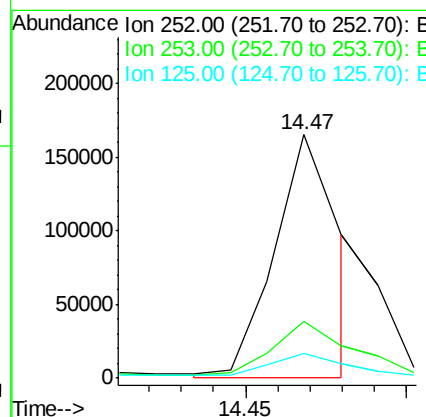
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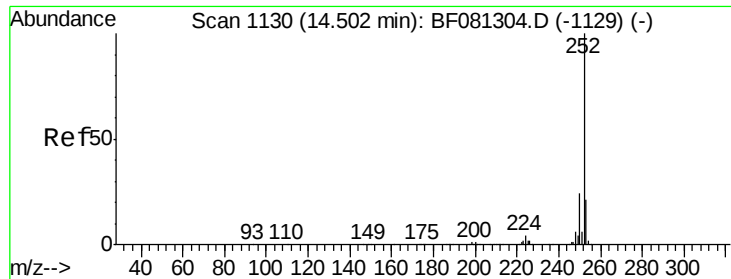
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#87
Benzo(b)fluoranthene
Concen: 43.79 ng m
RT: 14.47 min Scan# 1127
Delta R.T. 0.02 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	10.3	17.1	25.7





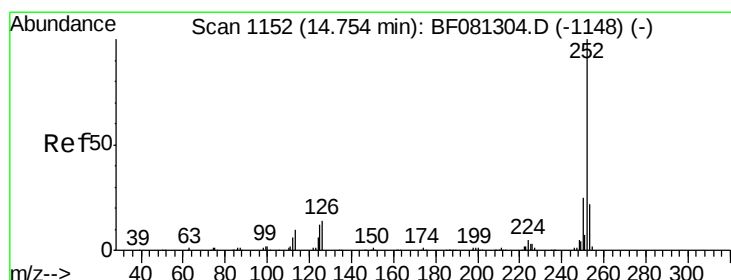
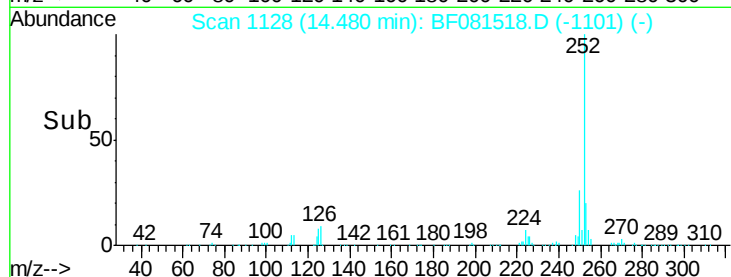
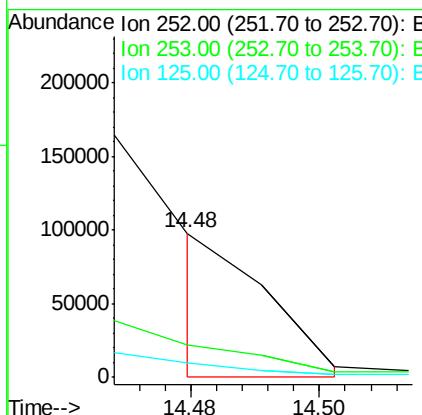
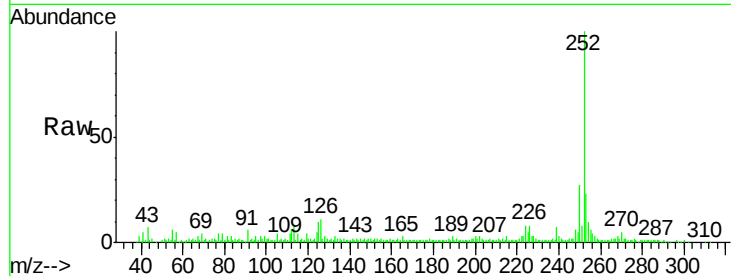
#88
Benzo(k)fluoranthene
Concen: 10.99 ng m
RT: 14.48 min Scan# 1128
Delta R.T. 0.01 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Instrument :
BNA_F
ClientSampleId :
MGP208BR-14-15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.4
125	10.1	16.0	24.0#

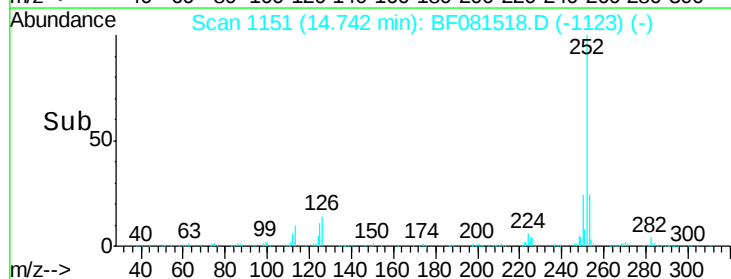
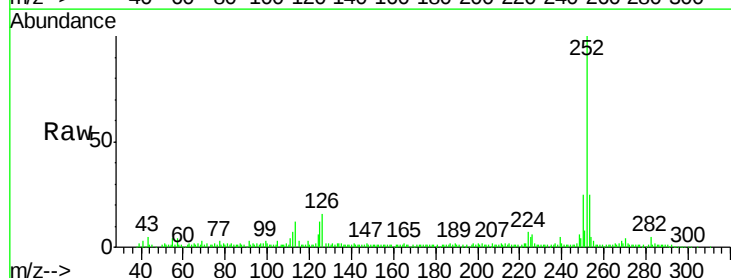
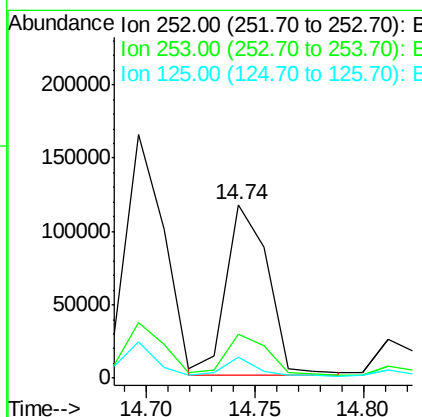
Manual Integrations
APPROVED

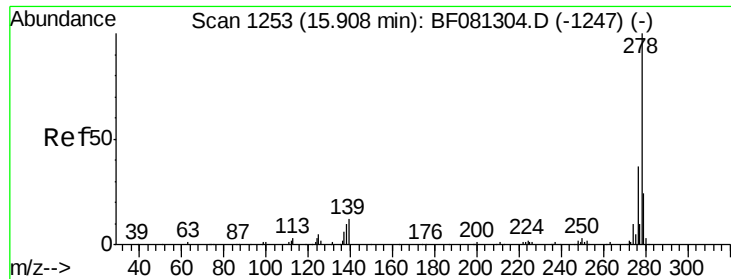
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9/8/2015 3:59:17 PM



#89
Benzo(a)pyrene
Concen: 34.82 ng
RT: 14.74 min Scan# 1151
Delta R.T. 0.02 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

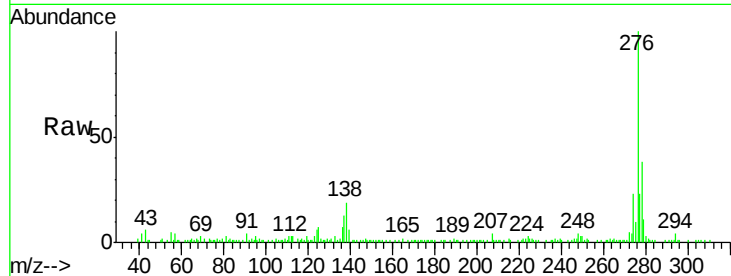
Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.2	25.8
125	12.3	18.0	27.0#





#90
Dibenzo(a,h)anthracene
Concen: 9.18 ng
RT: 15.87 min Scan# 1250
Delta R.T. 0.01 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

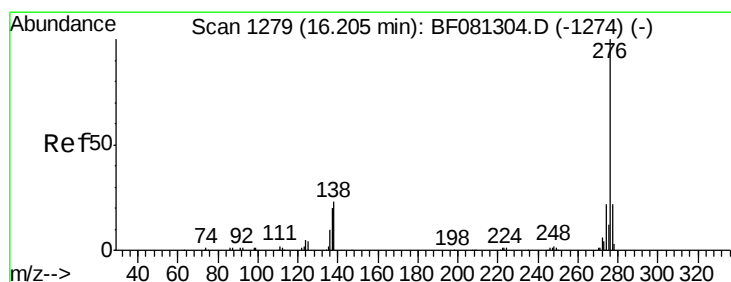
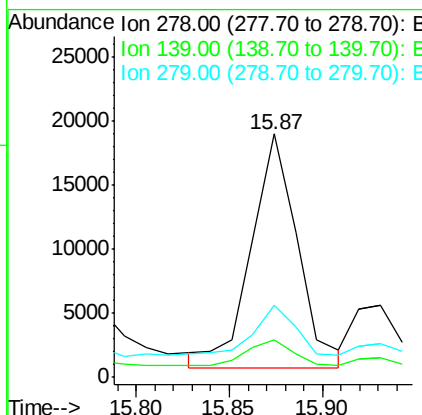
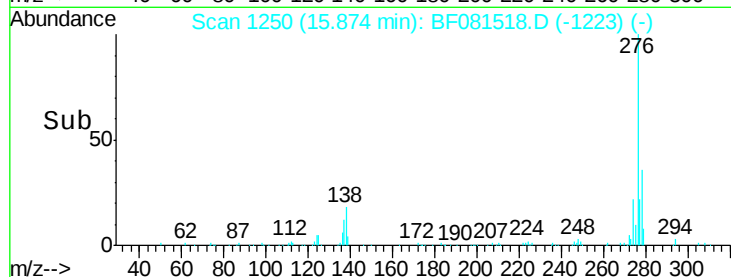
Instrument :
BNA_F
ClientSampleId :
MGP208BR-14-15



Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.5	26.3	39.5#
279	29.5	18.2	27.4#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 30.69 ng
RT: 16.19 min Scan# 1278
Delta R.T. 0.02 min
Lab File: BF081518.D
Acq: 6 Sep 2015 19:26

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.7	17.8	26.6
138	19.1	34.6	51.8#

