

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091415\
 Data File : BF081606.D
 Acq On : 14 Sep 2015 13:57
 Operator : UM/IZ
 Sample : G3472-05RE
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP001RE

Manual Integrations
 APPROVED

MMDadoda
 9/14/2015 3:12:55 PM

Quant Time: Sep 14 14:37:12 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 14 13:51:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	68182	20.00	ng	0.00
21) Naphthalene-d8	11.13	136	276942	20.00	ng	0.00
38) Acenaphthene-d10	15.26	164	125669	20.00	ng	-0.01
63) Phenanthrene-d10	18.77	188	238394	20.00	ng	0.00
75) Chrysene-d12	23.40	240	148702	20.00	ng	0.00
86) Perylene-d12	24.84	264	134272	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	398456	90.67	ng	0.01
7) Phenol-d6	7.66	99	586339	100.80	ng	0.00
23) Nitrobenzene-d5	9.53	82	371615	64.74	ng	-0.01
41) 2,4,6-Tribromophenol	17.17	330	104866	93.72	ng	-0.01
44) 2-Fluorobiphenyl	13.77	172	605660	61.76	ng	-0.01
78) Terphenyl-d14	22.12	244	449367	70.35	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.18	128	32218	2.18	ng	99
48) Acenaphthylene	14.92	152	44393	3.00	ng	97
49) Dimethylphthalate	14.82	163	168803	17.29	ng	# 97
51) Acenaphthene	15.33	154	29696	3.52	ng	89
54) Dibenzofuran	15.76	168	29738	2.42	ng	# 84
57) Fluorene	16.56	166	33621	3.60	ng	95
70) Phenanthrene	18.84	178	602968	45.50	ng	97
71) Anthracene	18.94	178	135034	9.92	ng	97
72) Carbazole	19.42	167	66145	5.18	ng	96
74) Fluoranthene	21.45	202	1004128	69.99	ng	90
77) Pyrene	21.80	202	837970	76.08	ng	# 94
80) Benzo(a)anthracene	23.38	228	378819	40.00	ng	96
82) Chrysene	23.43	228	287839	33.91	ng	93
83) Bis(2-ethylhexyl)phthalate	23.50	149	17507	2.77	ng	# 91
85) Indeno(1,2,3-cd)pyrene	25.89	276	172397	27.68	ng	# 79
87) Benzo(b)fluoranthene	24.49	252	380281m	39.67	ng	
88) Benzo(k)fluoranthene	24.50	252	135988m	17.10	ng	
89) Benzo(a)pyrene	24.79	252	279113	34.36	ng	# 80
90) Dibenzo(a,h)anthracene	25.89	278	50873	8.10	ng	# 61
91) Benzo(g,h,i)perylene	26.20	276	146867	24.52	ng	# 71

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

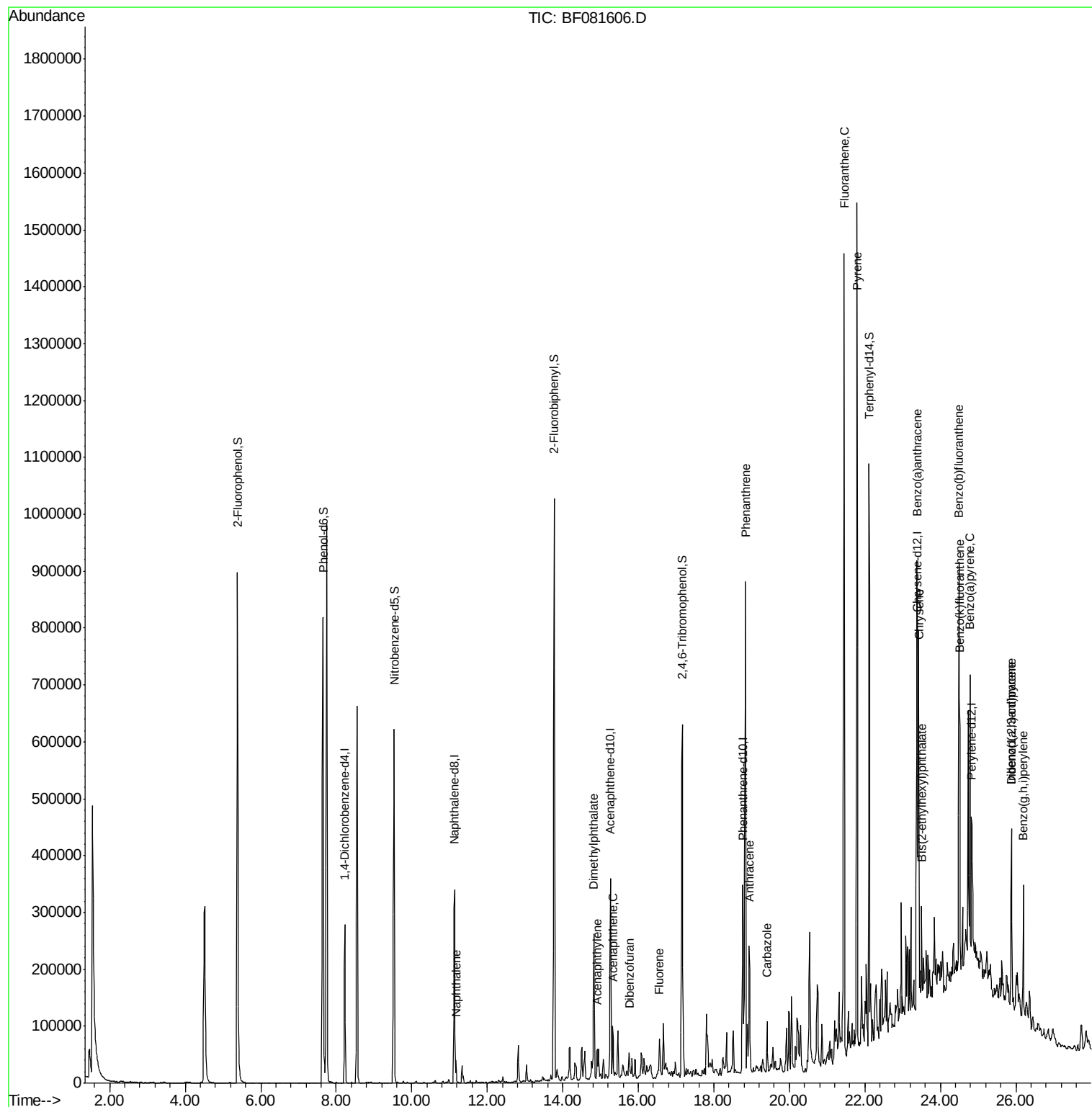
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091415\
Data File : BF081606.D
Acq On : 14 Sep 2015 13:57
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Sample : G3472-05RE
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ALS Vial : 21 Sample Multiplier: 1

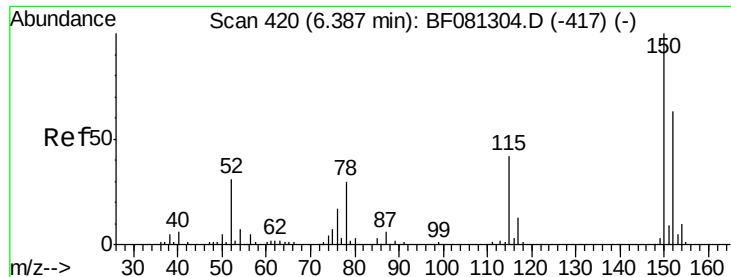
Instrument :
BNA_F
ClientSampleId :
DUP001RE

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#1

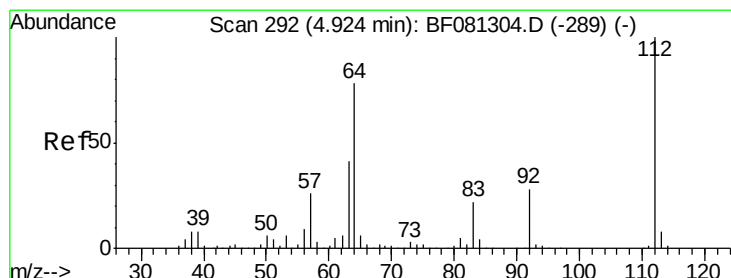
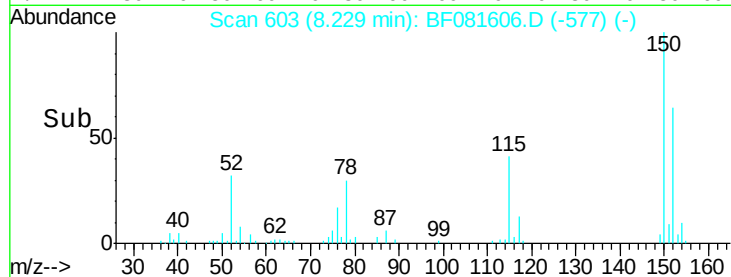
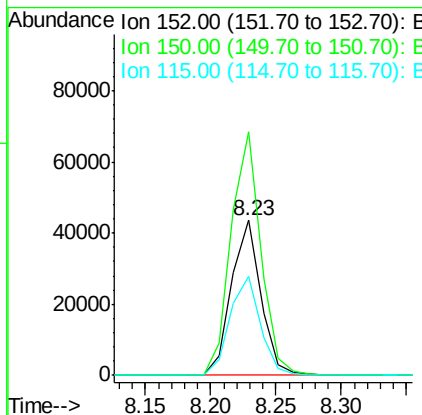
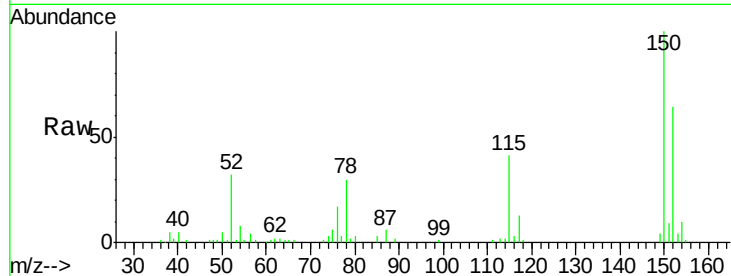
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.23 min Scan# 603
Delta R.T. 0.00 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.4	124.7	187.1
115	64.0	39.0	58.4#

Manual Integrations
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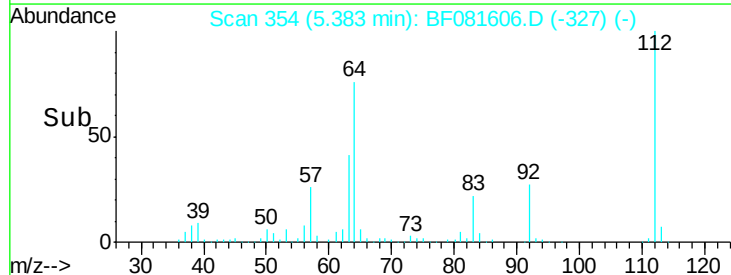
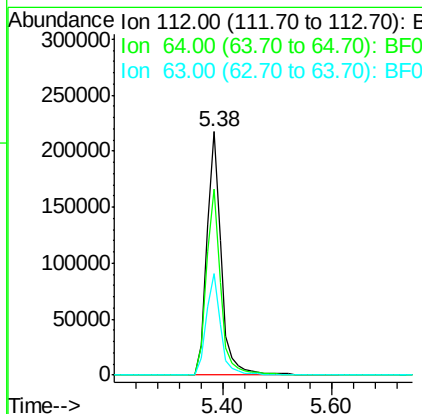
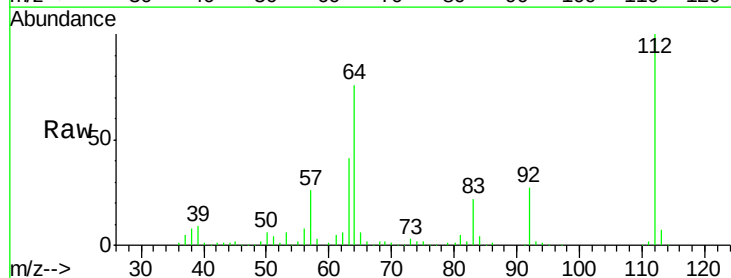
MMDadoda
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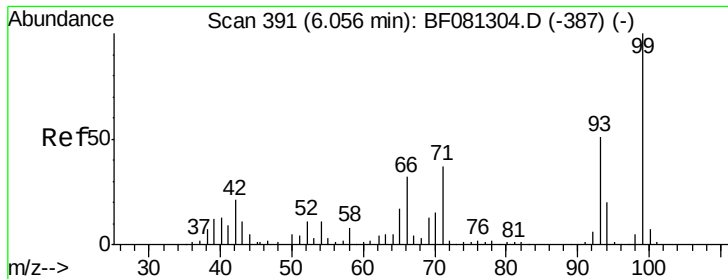


#5

2-Fluorophenol
Concen: 90.67 ng
RT: 5.38 min Scan# 354
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	76.5	39.7	59.5#
63	41.5	17.4	26.0#





#7

Phenol-d6

Concen: 100.80 ng

RT: 7.66 min Scan# 553

Delta R.T. 0.00 min

Lab File: BF081606.D

Acq: 14 Sep 2015 13:57

Instrument :

BNA_F

ClientSampleId :

DUP001RE

Tgt Ion: 99 Resp: 586339

Ion Ratio Lower Upper

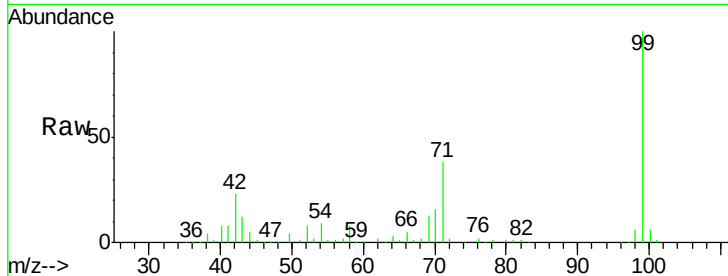
99 100

42 22.8 13.7 20.5#

71 37.6 14.2 21.2#

Manual Integrations
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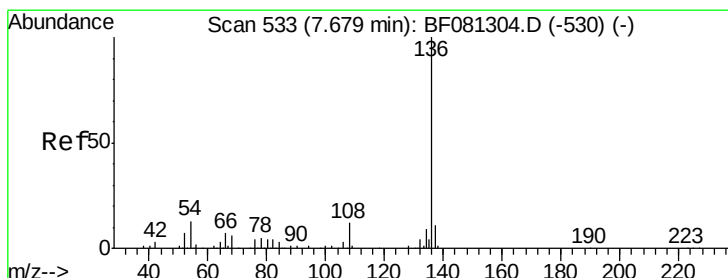
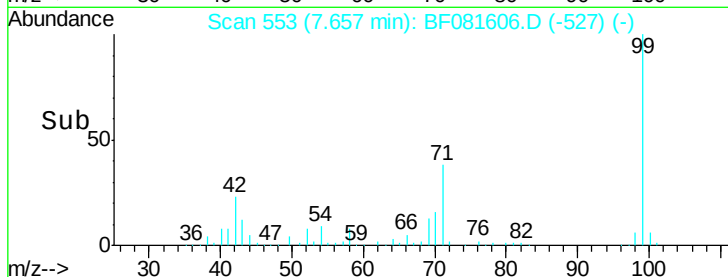
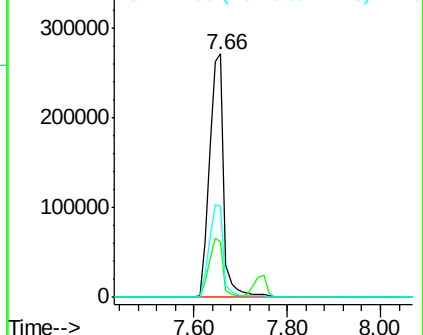
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.13 min Scan# 857

Delta R.T. 0.00 min

Lab File: BF081606.D

Acq: 14 Sep 2015 13:57

Tgt Ion: 136 Resp: 276942

Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.6

54 11.0 8.2 12.2

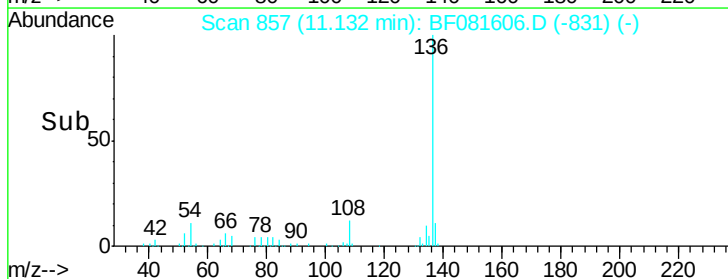
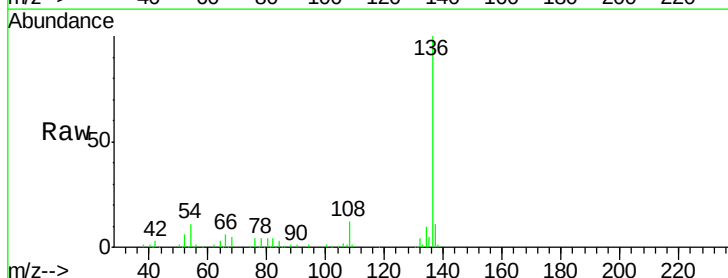
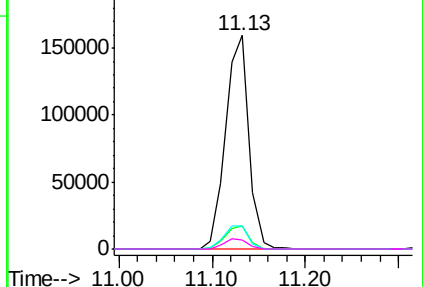
68 4.5 5.8 8.6#

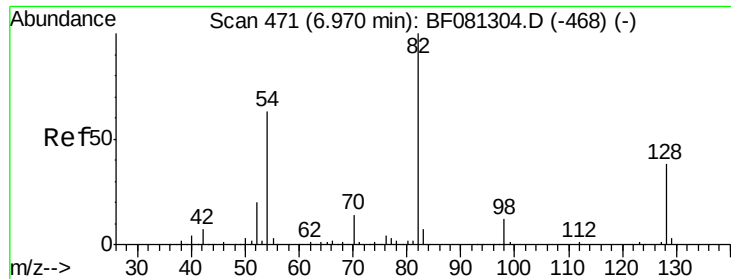
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 64.74 ng

RT: 9.53 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF081606.D

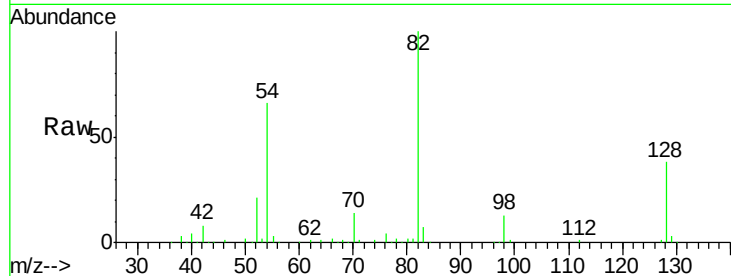
Acq: 14 Sep 2015 13:57

Instrument :

BNA_F

ClientSampleId :

DUP001RE



Tgt Ion: 82 Resp: 371615

Ion Ratio Lower Upper

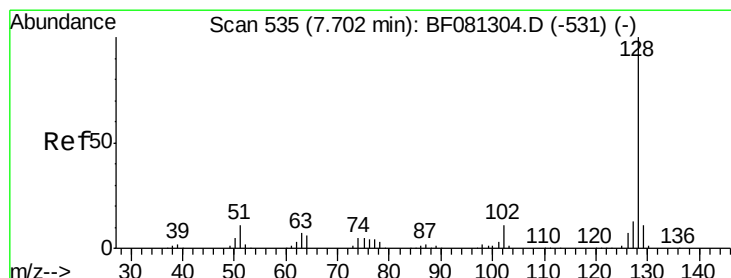
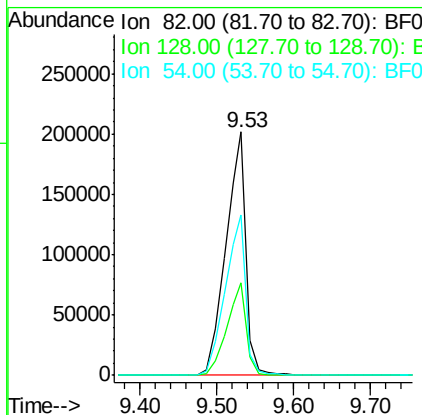
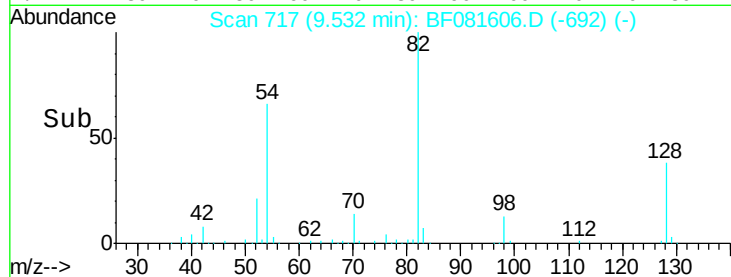
82 100

128 38.2 51.0 76.6#

54 66.1 47.5 71.3

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#31

Naphthalene

Concen: 2.18 ng

RT: 11.18 min Scan# 861

Delta R.T. -0.01 min

Lab File: BF081606.D

Acq: 14 Sep 2015 13:57

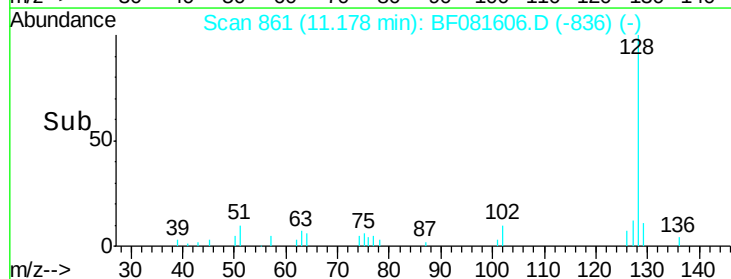
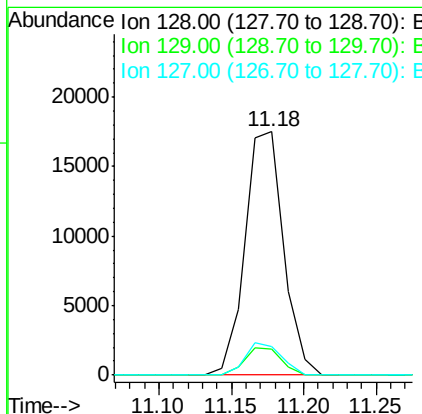
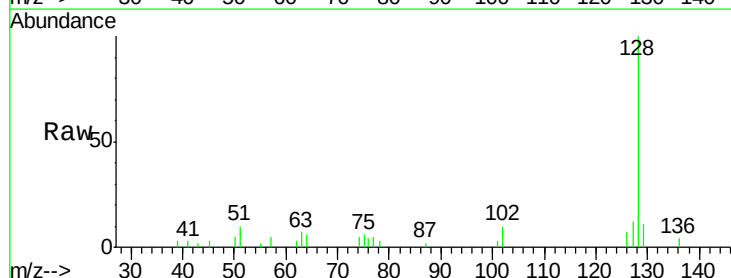
Tgt Ion: 128 Resp: 32218

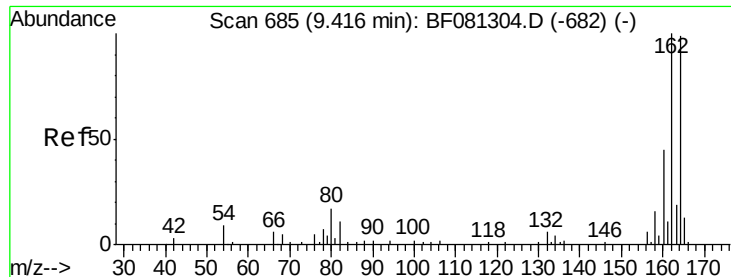
Ion Ratio Lower Upper

128 100

129 10.8 8.4 12.6

127 11.8 9.9 14.9





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.26 min Scan# 1218

Delta R.T. -0.01 min

Lab File: BF081606.D

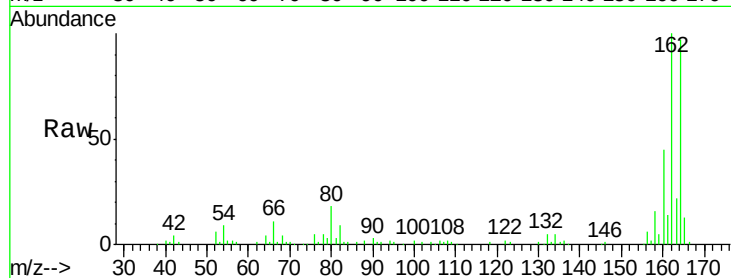
Acq: 14 Sep 2015 13:57

Instrument :

BNA_F

ClientSampleId :

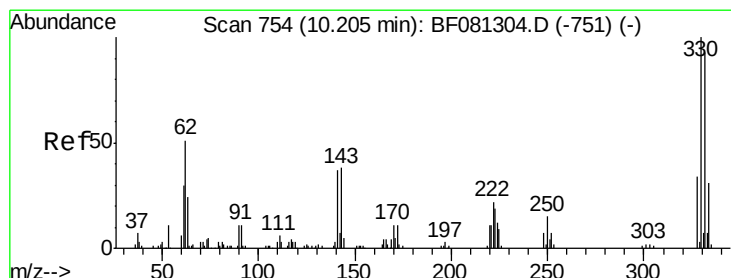
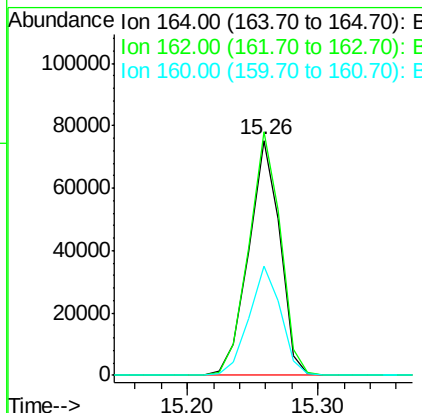
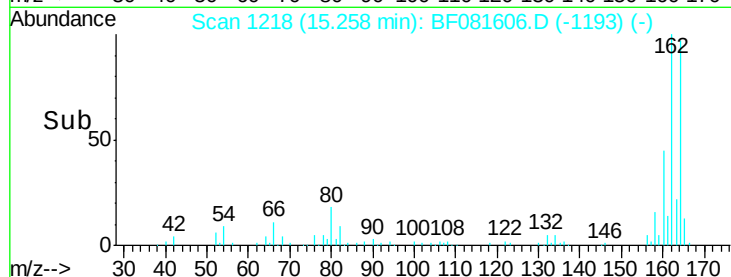
DUP001RE



Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.5	75.2	112.8	
160	46.5	31.5	47.3	

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#41

2,4,6-Tribromophenol

Concen: 93.72 ng

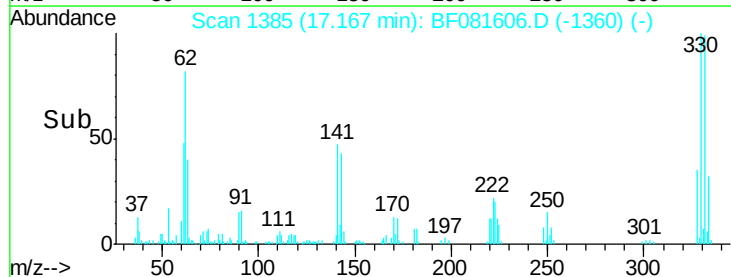
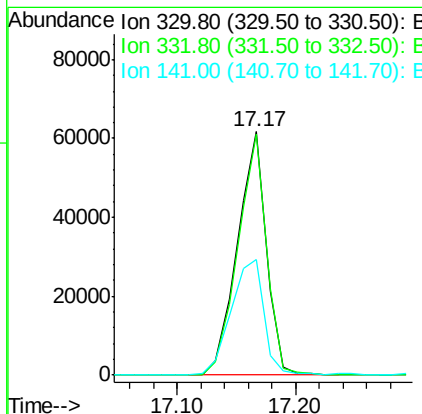
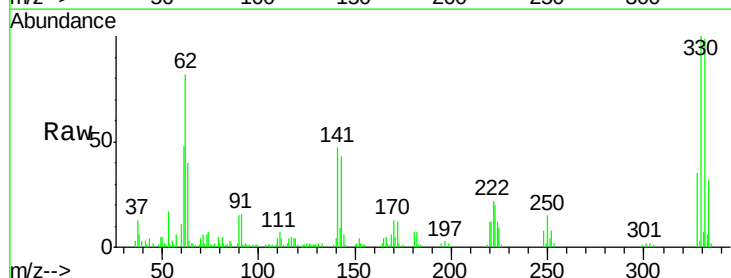
RT: 17.17 min Scan# 1385

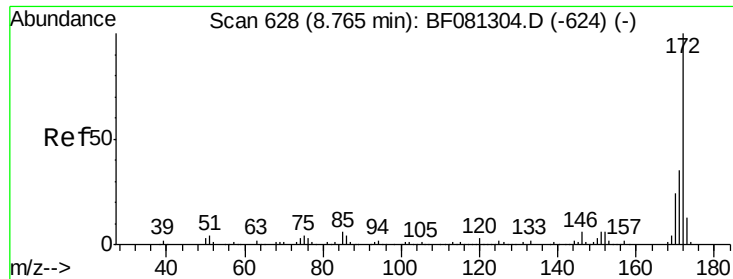
Delta R.T. -0.01 min

Lab File: BF081606.D

Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.8	76.6	114.8	
141	54.2	29.7	44.5	





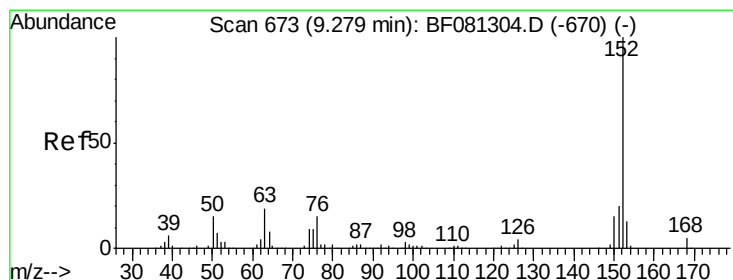
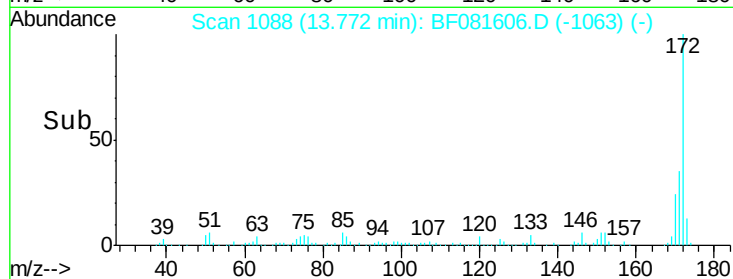
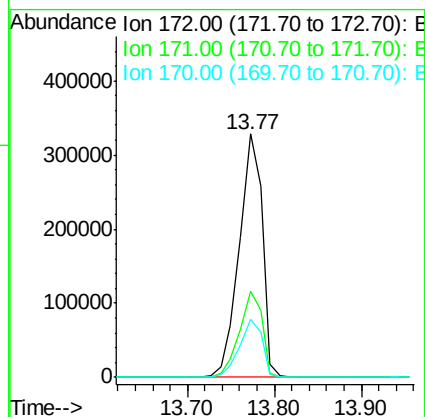
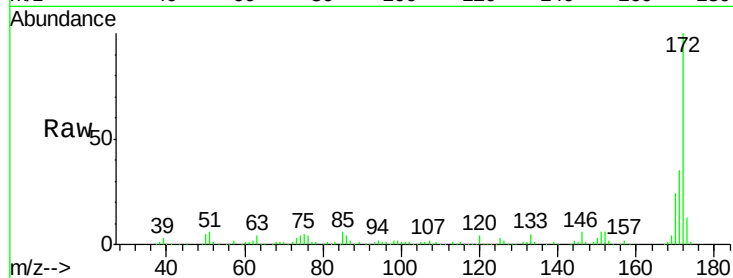
#44
2-Fluorobiphenyl
Concen: 61.76 ng
RT: 13.77 min Scan# 1088
Delta R.T. -0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
172	100	605660		
171	35.3	26.1	39.1	
170	24.0	17.4	26.2	

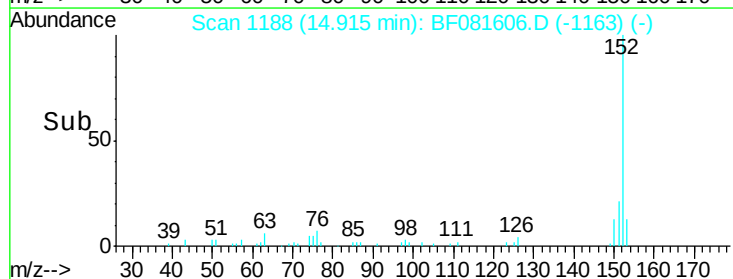
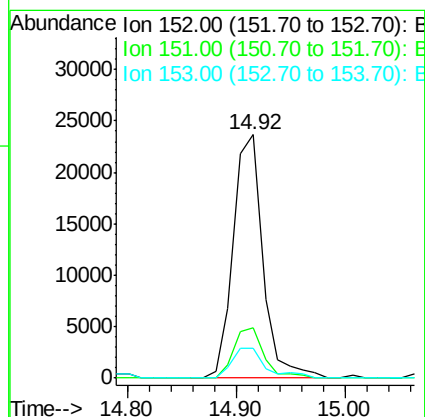
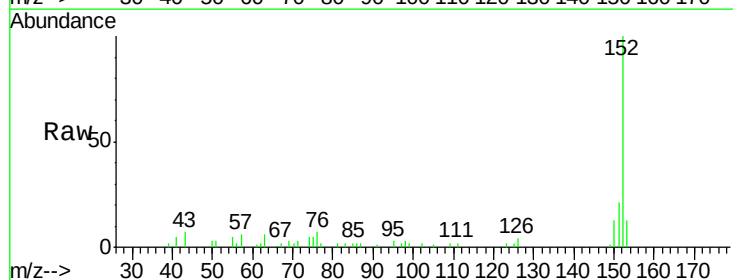
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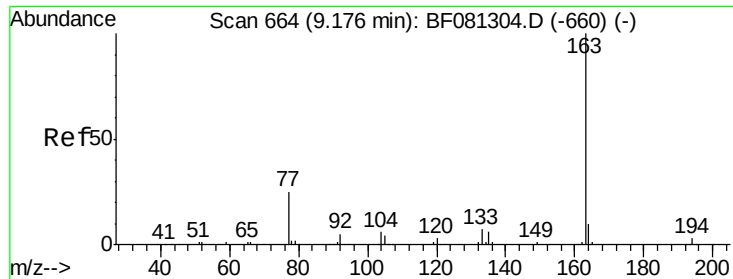
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#48
Acenaphthylene
Concen: 3.00 ng
RT: 14.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	44393		
151	20.6	14.6	22.0	
153	12.5	10.3	15.5	





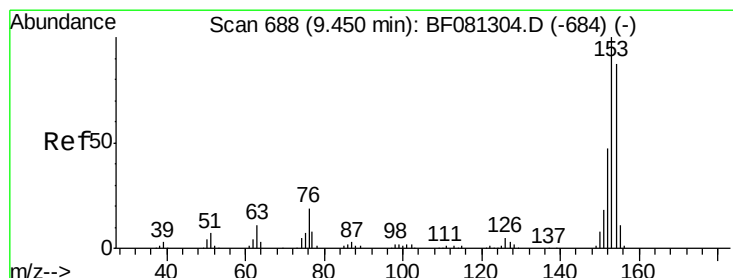
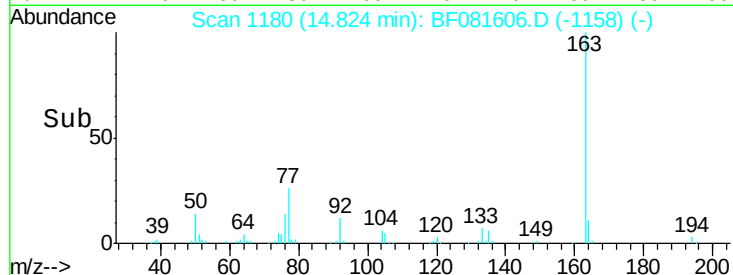
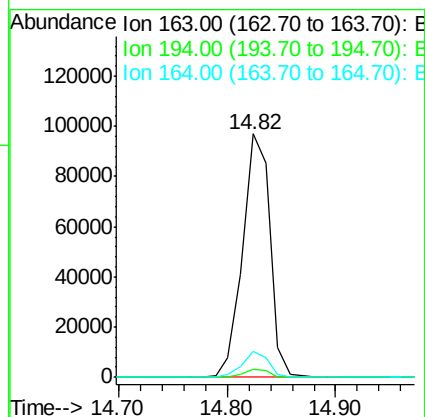
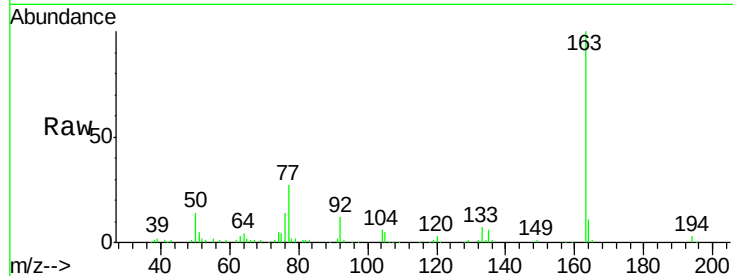
#49
Dimethylphthalate
Concen: 17.29 ng
RT: 14.82 min Scan# 1180
Delta R.T. -0.05 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	168803		
194	3.2	4.4	6.6#	
164	10.8	8.3	12.5	

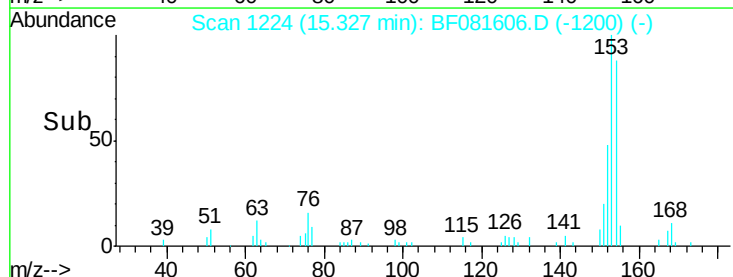
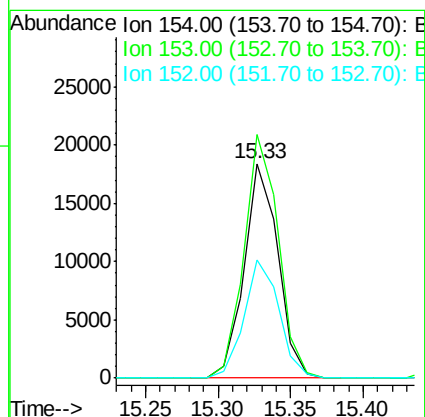
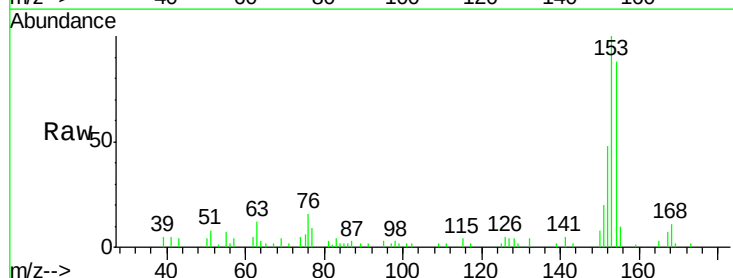
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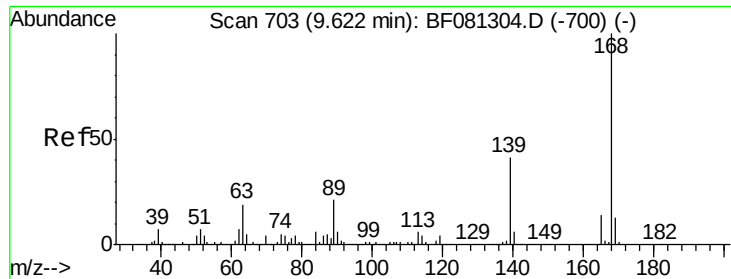
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#51
Acenaphthene
Concen: 3.52 ng
RT: 15.33 min Scan# 1224
Delta R.T. -0.02 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	29696		
153	113.5	82.1	123.1	
152	54.8	37.9	56.9	





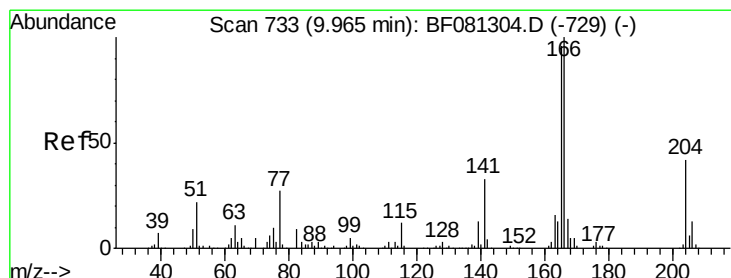
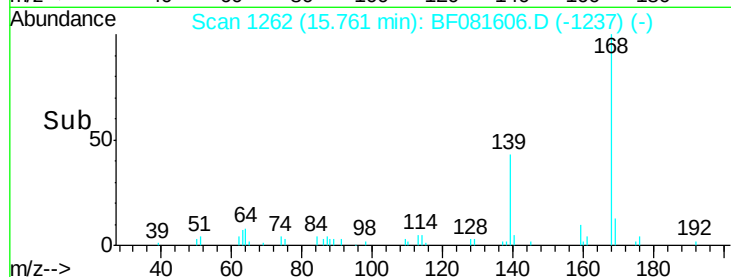
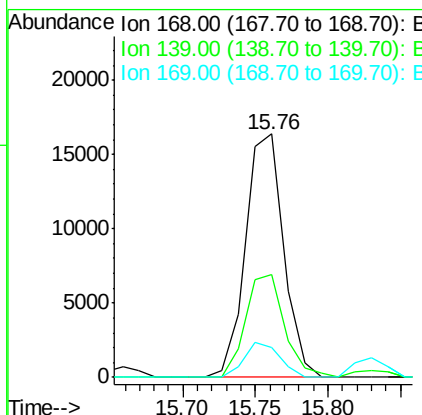
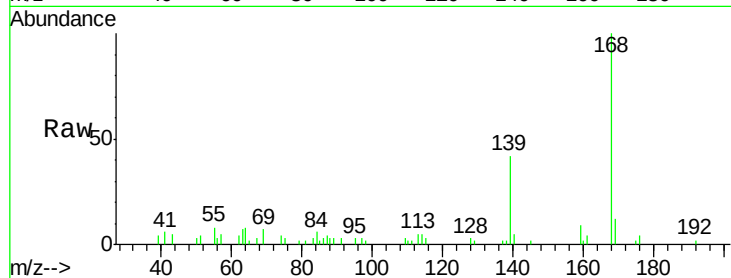
#54
Dibenzofuran
Concen: 2.42 ng
RT: 15.76 min Scan# 1262
Delta R.T. -0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Lower	Upper
168	100		
139	42.1	24.2	36.2
169	12.3	10.6	15.8

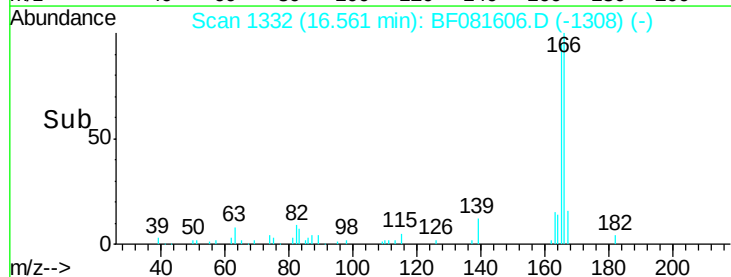
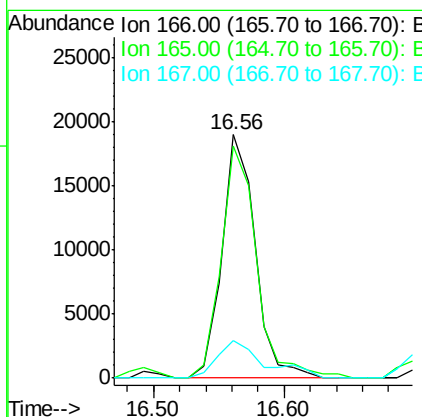
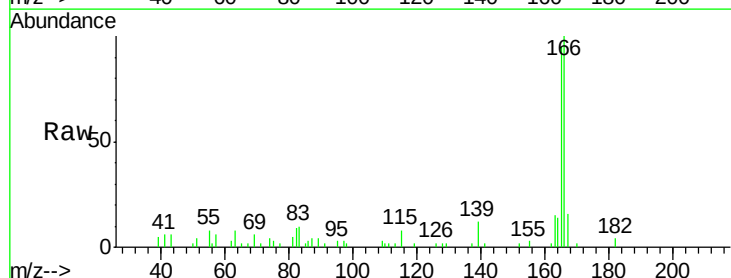
Manual Integrations
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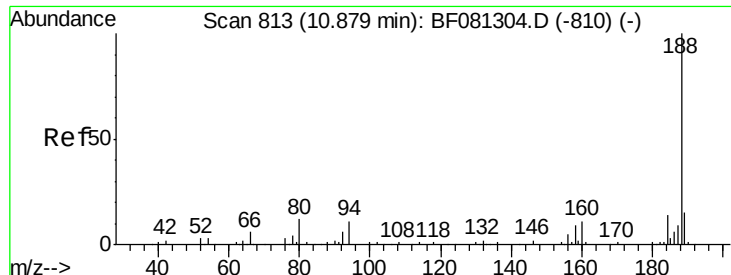
MMDadoda
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#57
Fluorene
Concen: 3.60 ng
RT: 16.56 min Scan# 1332
Delta R.T. -0.02 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.4	72.6	109.0
167	15.5	10.6	16.0





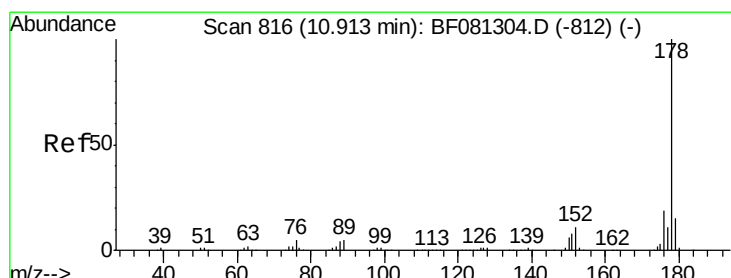
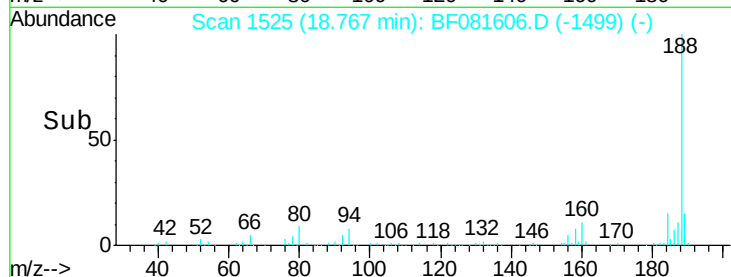
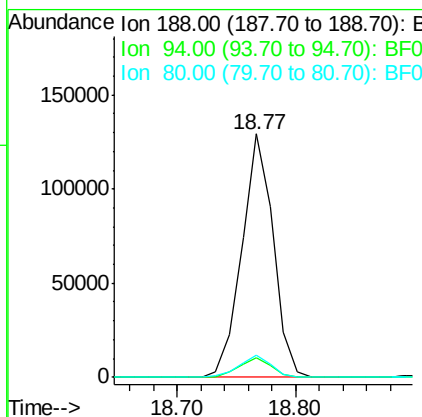
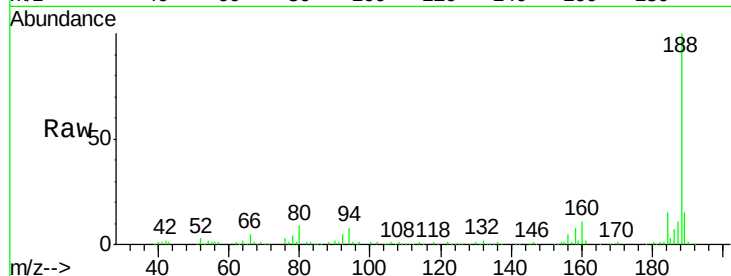
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 18.77 min Scan# 1525
 Delta R.T. -0.00 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Instrument :
 BNA_F
 ClientSampleId :
 DUP001RE

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	8.2	11.1	16.7#
80	9.2	11.0	16.4#

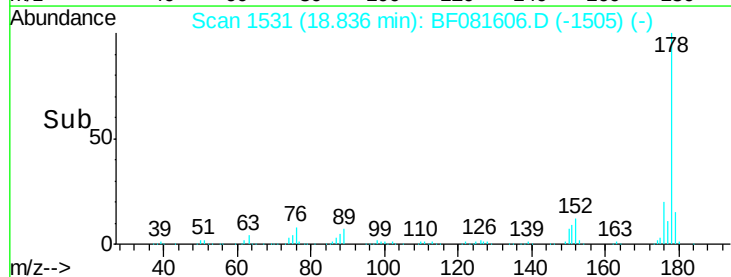
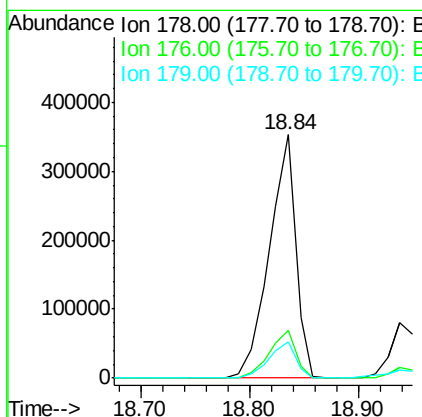
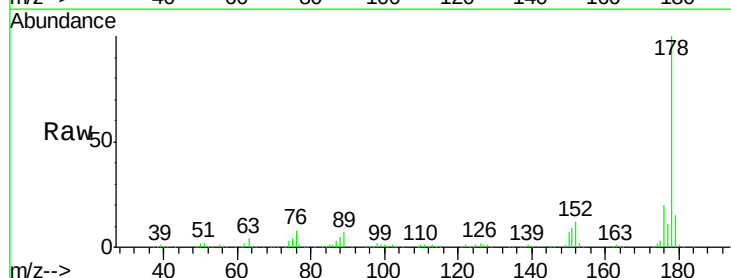
Manual Integrations
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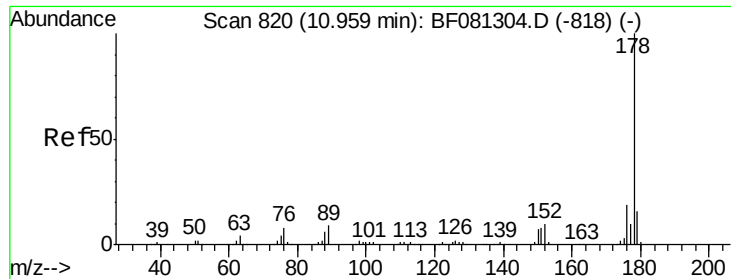
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#70
 Phenanthrene
 Concen: 45.50 ng
 RT: 18.84 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	13.8	20.8
179	15.0	12.2	18.2





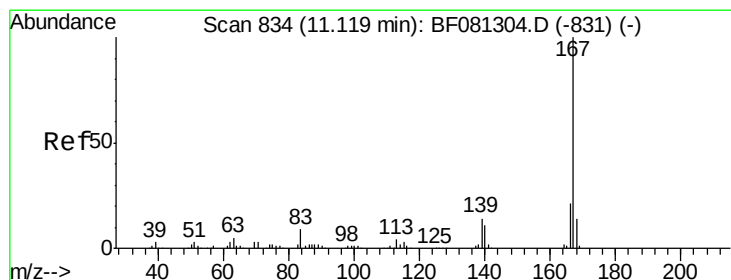
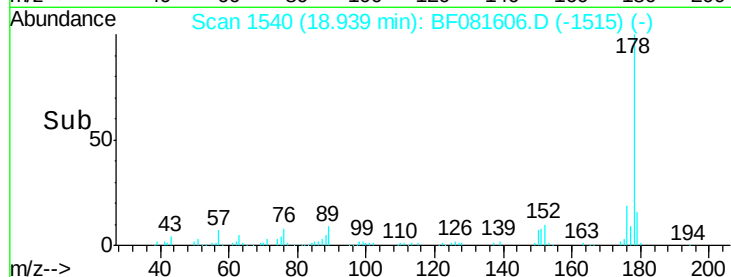
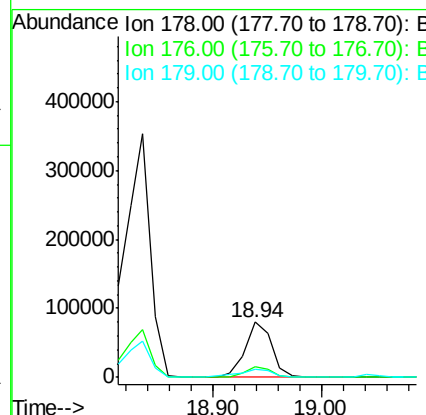
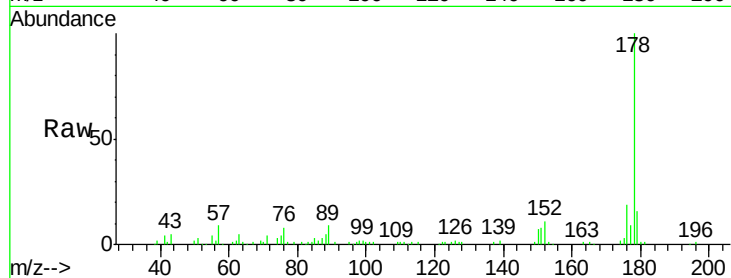
#71
 Anthracene
 Concen: 9.92 ng
 RT: 18.94 min Scan# 1540
 Delta R.T. -0.01 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Instrument :
 BNA_F
 ClientSampleId :
 DUP001RE

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	14.1	21.1
179	15.5	12.2	18.2

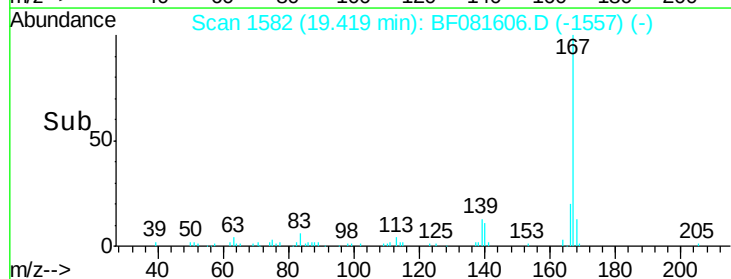
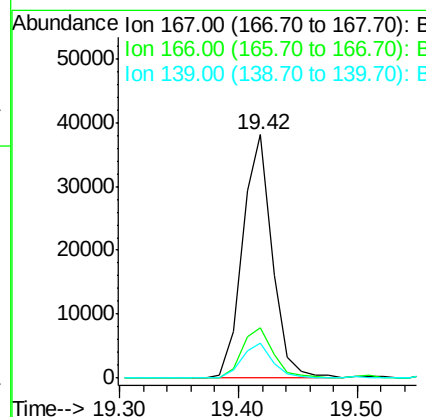
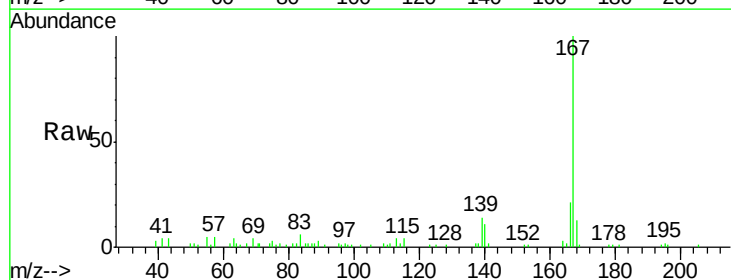
Manual Integrations
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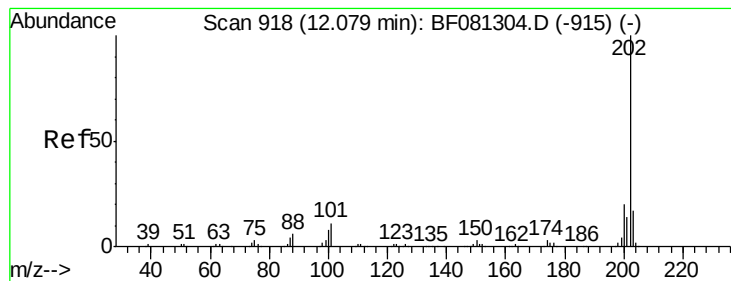
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#72
 Carbazole
 Concen: 5.18 ng
 RT: 19.42 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.8	15.7	23.5
139	14.2	9.5	14.3





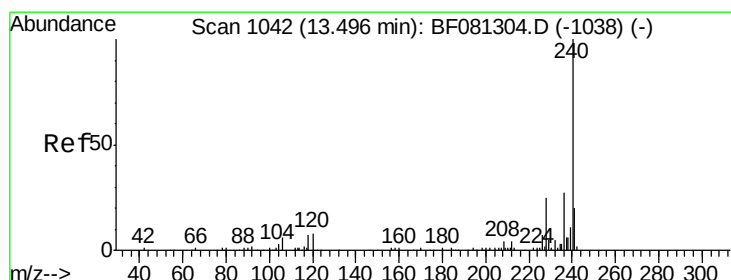
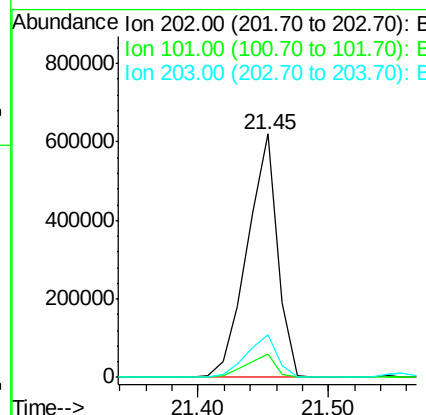
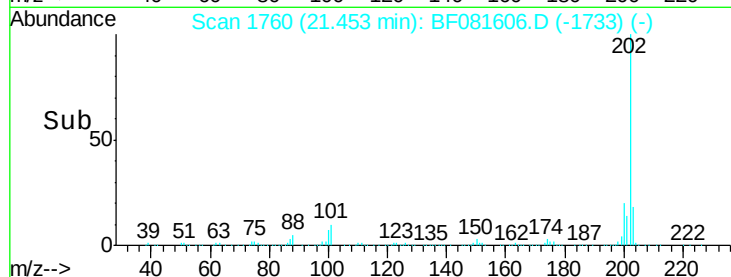
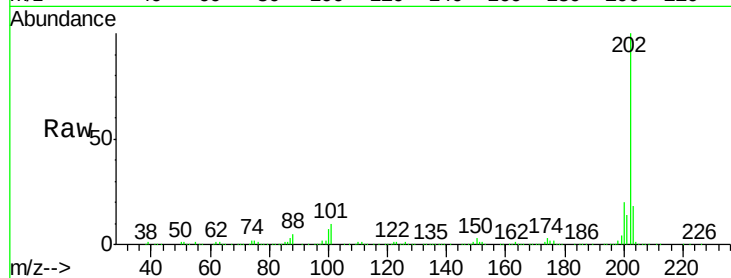
#74
Fluoranthene
Concen: 69.99 ng
RT: 21.45 min Scan# 1760
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1004128		
101	9.7		0.0	38.3
203	17.6		0.0	37.3

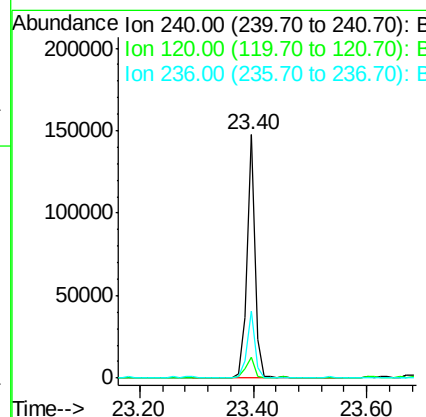
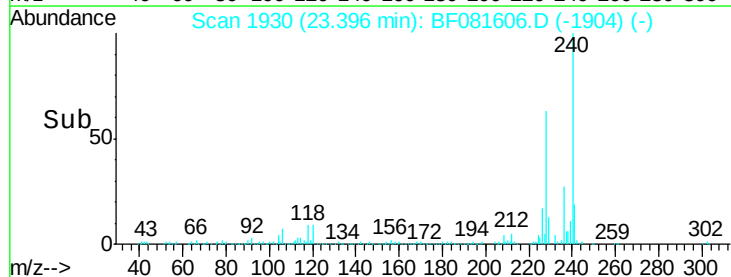
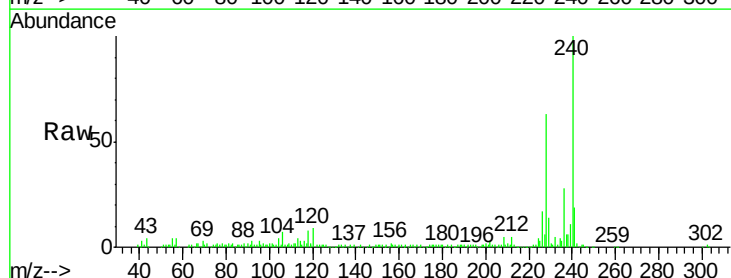
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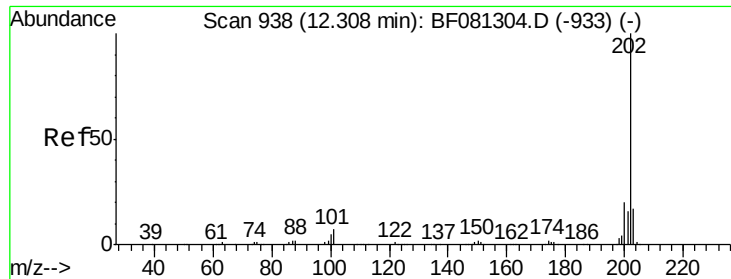
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#75
Chrysene-d12
Concen: 20.00 ng
RT: 23.40 min Scan# 1930
Delta R.T. 0.00 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	148702		
120	8.8		16.2	24.2#
236	27.6		18.4	27.6





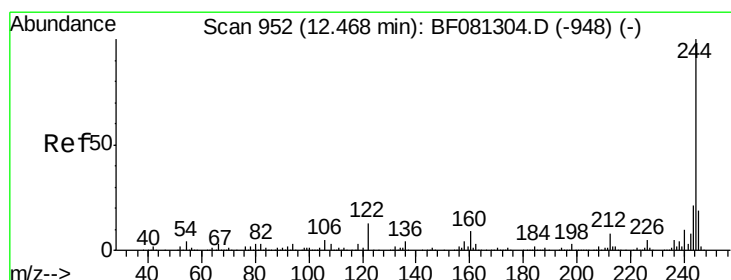
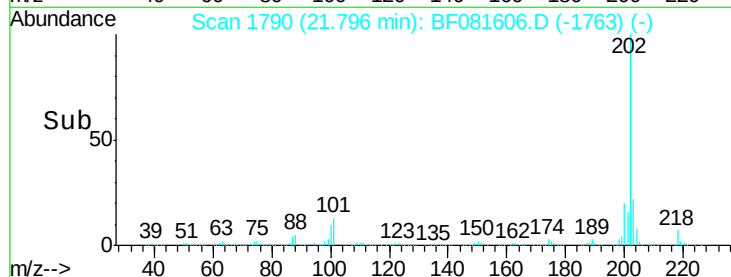
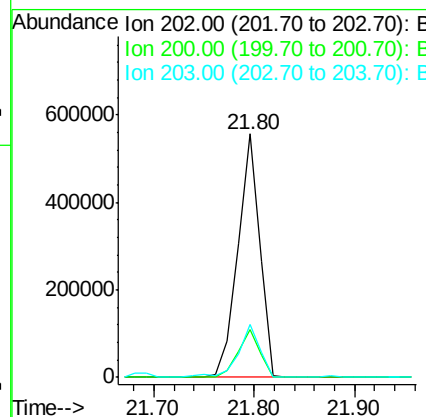
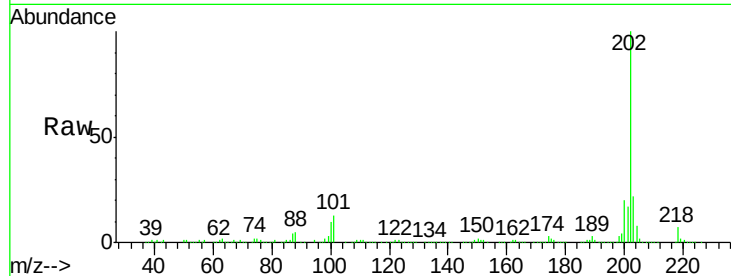
#77
 Pyrene
 Concen: 76.08 ng
 RT: 21.80 min Scan# 1790
 Delta R.T. 0.01 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Instrument :
 BNA_F
 ClientSampleId :
 DUP001RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	19.8	15.0	22.4
203	21.9	14.1	21.1#

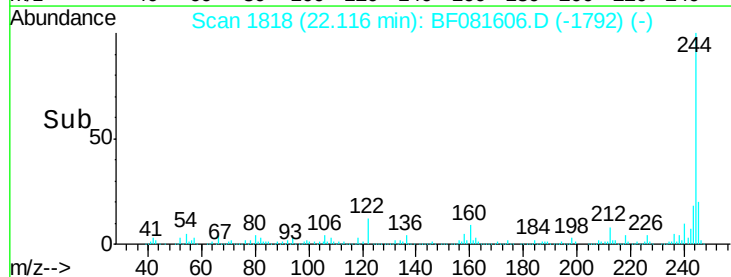
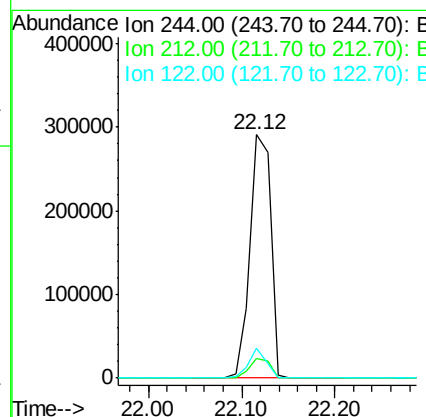
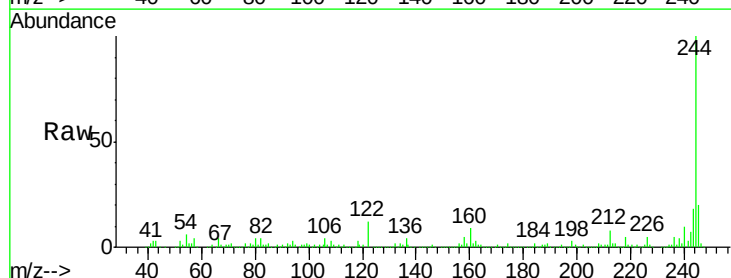
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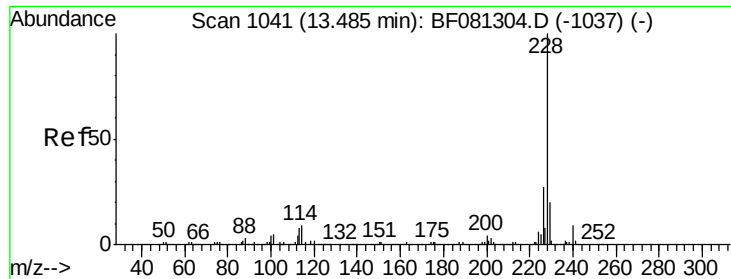
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 9/14/2015 3:12:55 PM



#78
 Terphenyl-d14
 Concen: 70.35 ng
 RT: 22.12 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.1	4.3	6.5#
122	12.2	17.4	26.2#





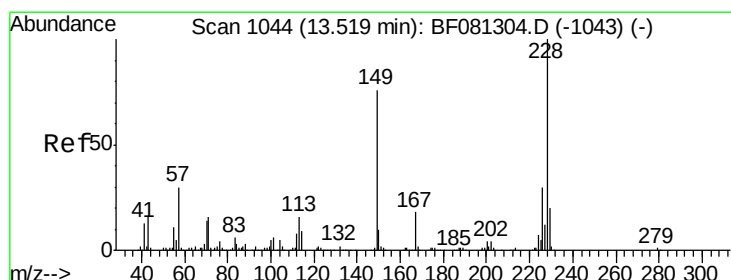
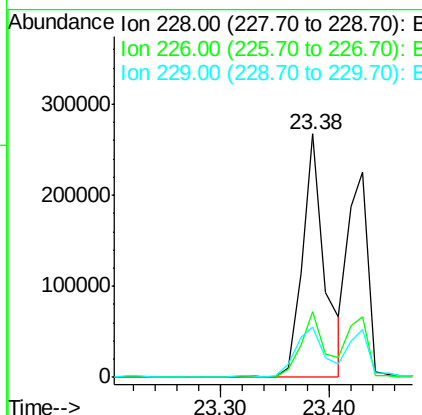
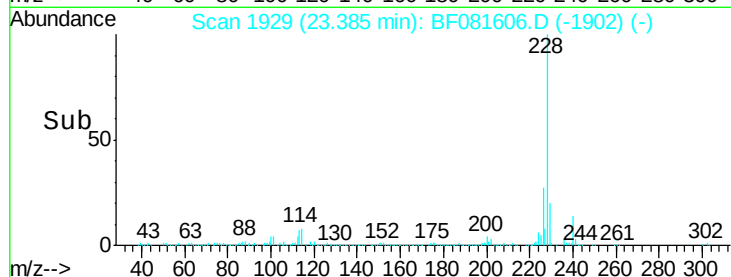
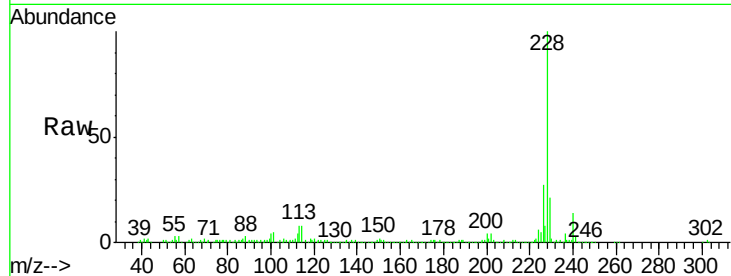
#80
Benzo(a)anthracene
Concen: 40.00 ng
RT: 23.38 min Scan# 1929
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	20.0	30.0
229	20.6	15.4	23.2

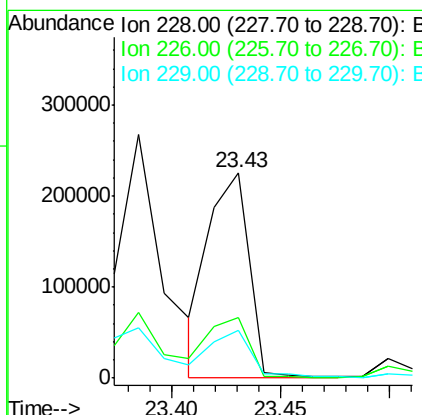
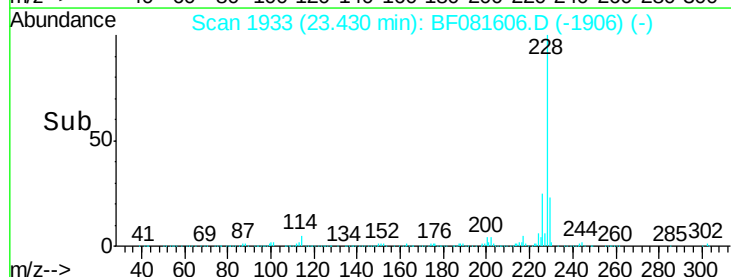
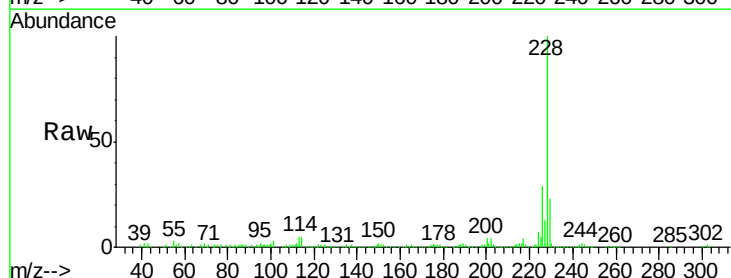
Manual Integrations
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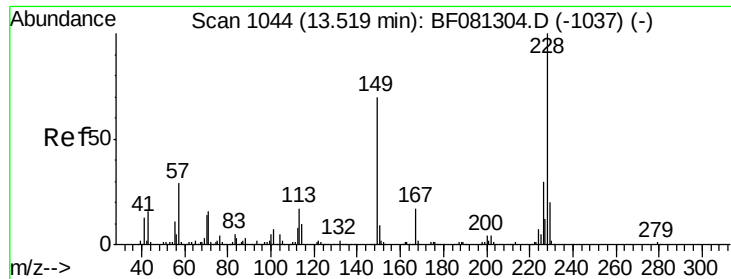
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#82
Chrysene
Concen: 33.91 ng
RT: 23.43 min Scan# 1933
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	21.0	31.4
229	22.9	15.6	23.4





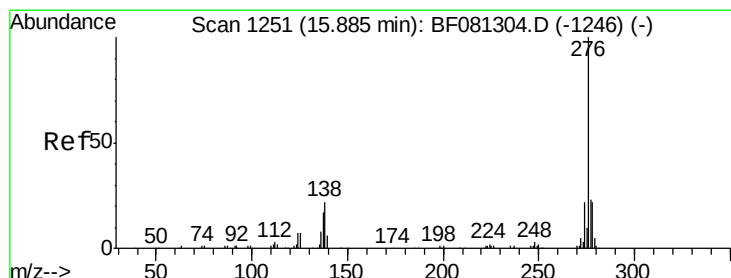
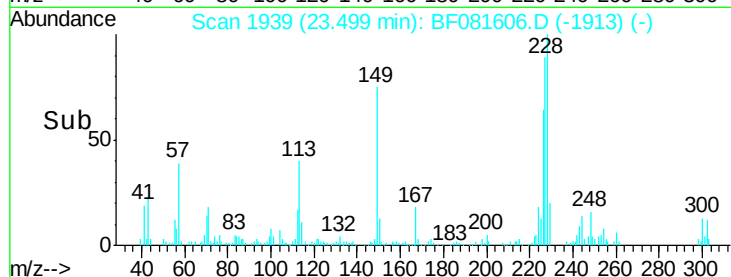
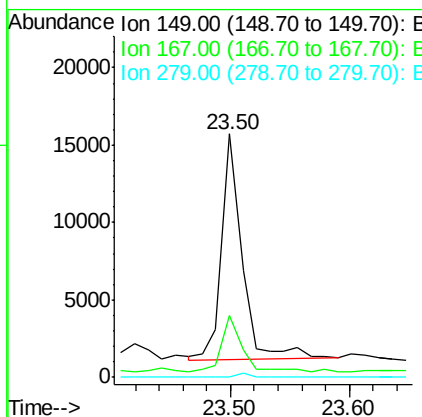
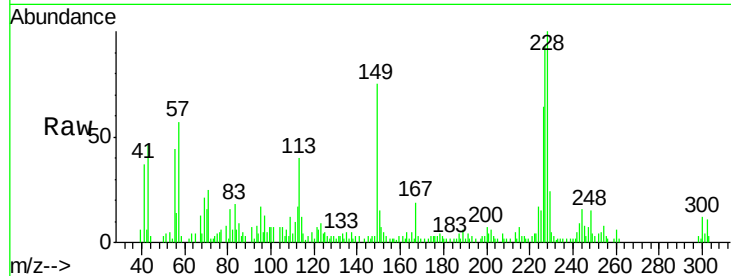
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.77 ng
 RT: 23.50 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Instrument :
 BNA_F
 ClientSampleId :
 DUP001RE

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	17507		
167	25.6	24.2	36.2	
279	0.0	3.8	5.6#	

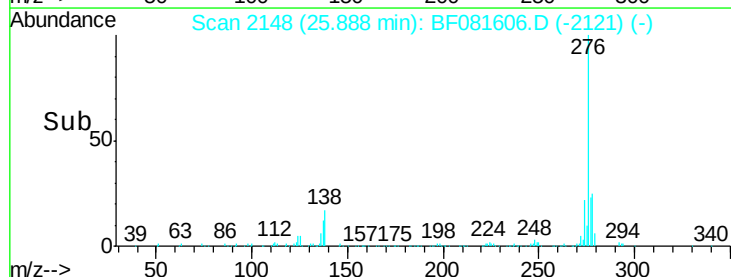
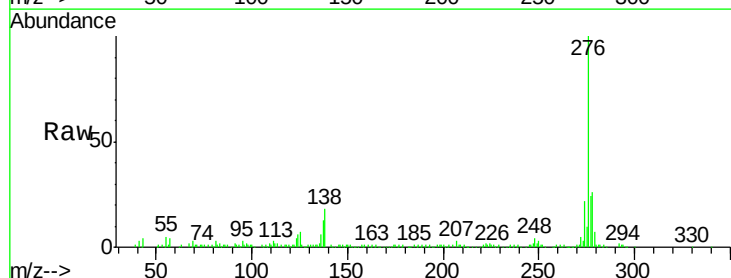
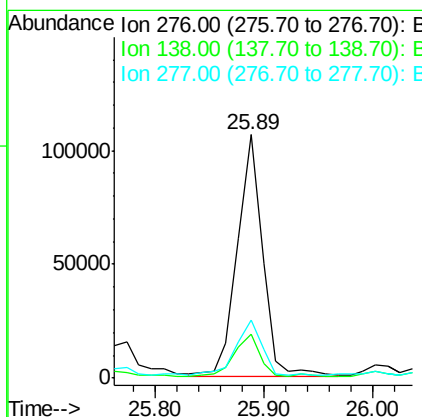
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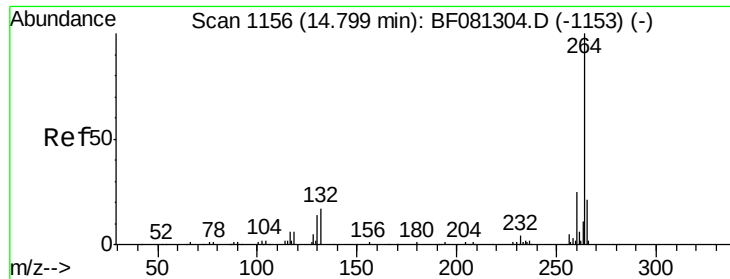
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 27.68 ng
 RT: 25.89 min Scan# 2148
 Delta R.T. 0.01 min
 Lab File: BF081606.D
 Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	172397		
138	17.9	25.7	38.5#	
277	25.8	15.6	23.4#	





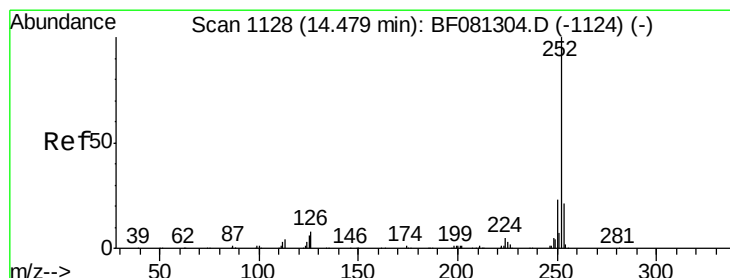
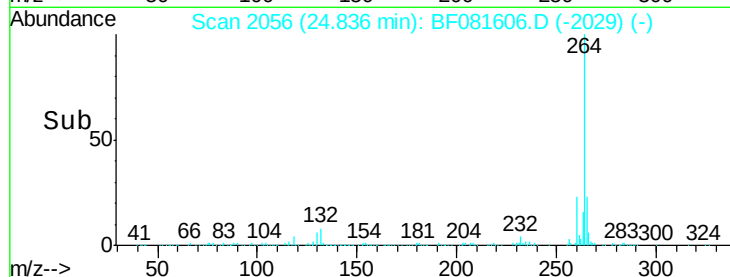
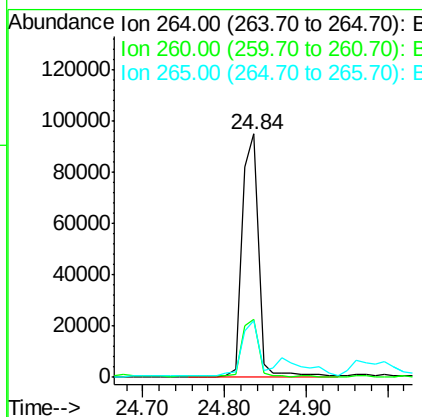
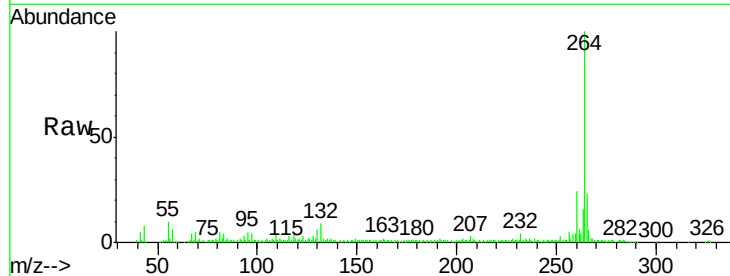
#86
Perylene-d12
Concen: 20.00 ng
RT: 24.84 min Scan# 2056
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	16.7	25.1
265	23.3	17.2	25.8

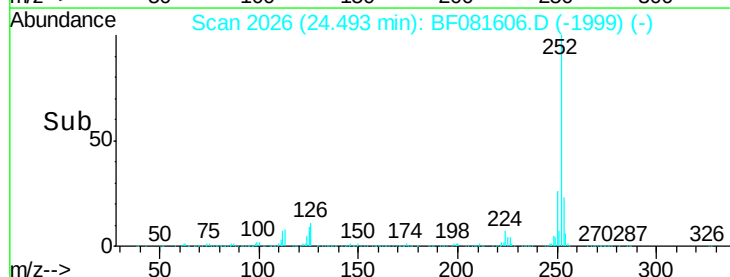
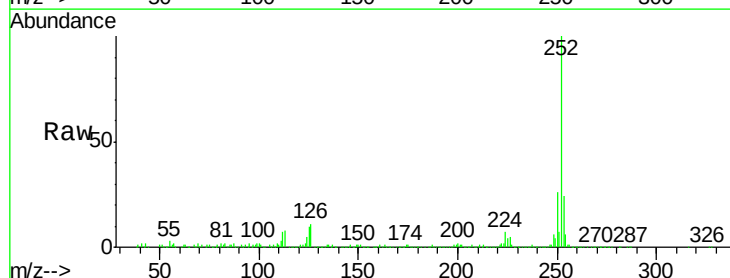
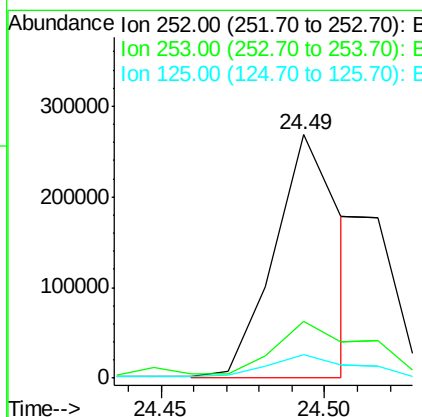
Manual Integrations
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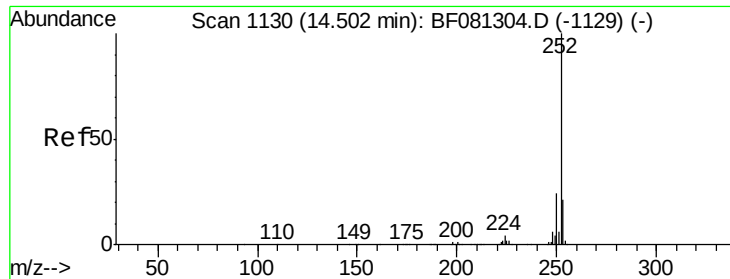
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#87
Benzo(b)fluoranthene
Concen: 39.67 ng m
RT: 24.49 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	9.8	17.1	25.7#





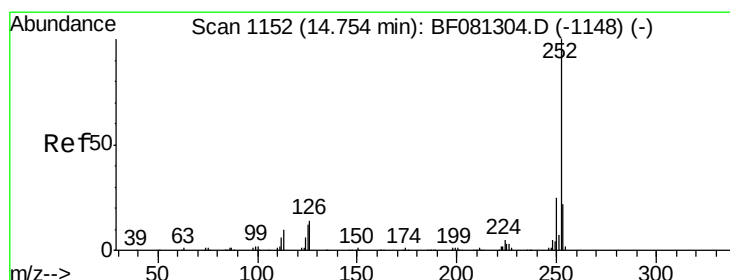
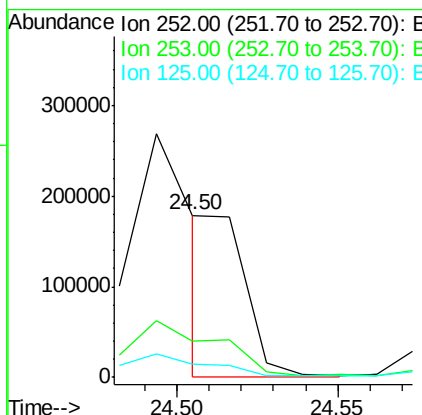
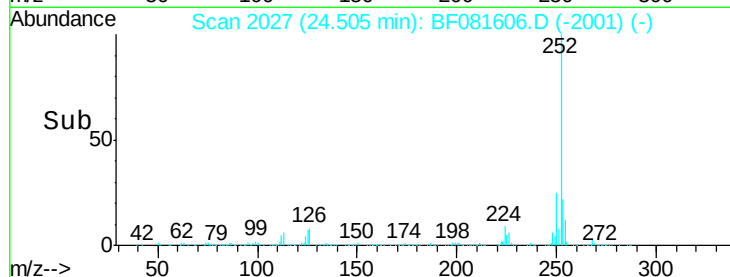
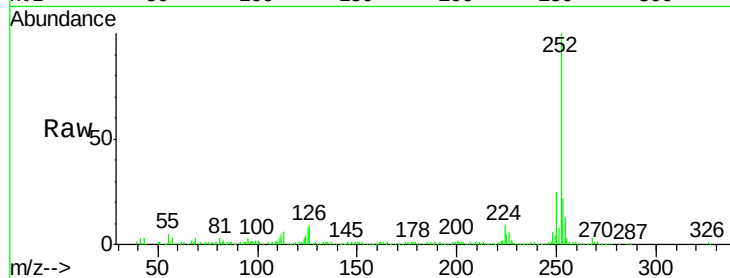
#88
Benzo(k)fluoranthene
Concen: 17.10 ng m
RT: 24.50 min Scan# 2027
Delta R.T. 0.00 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.4
125	8.0	16.0	24.0

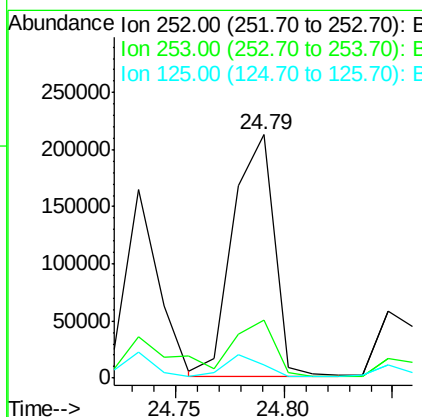
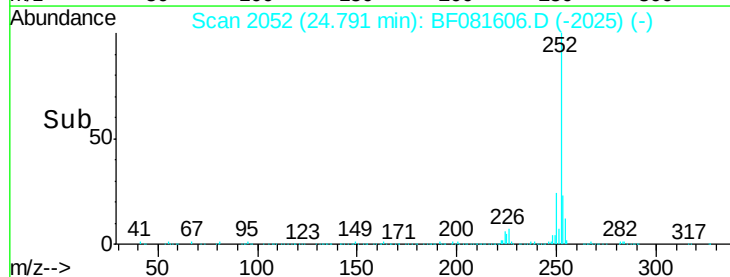
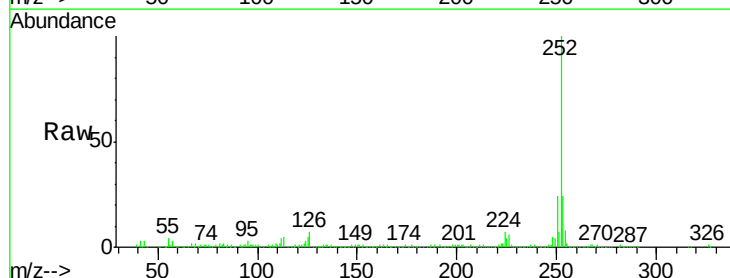
Manual Integrations
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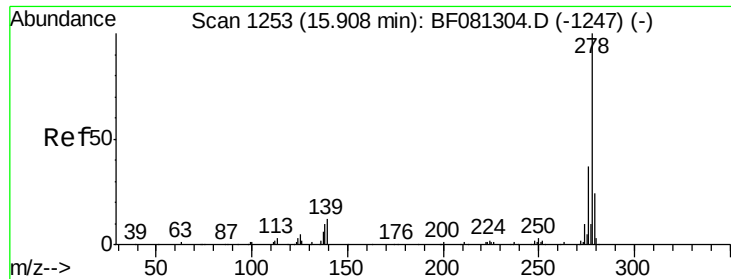
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9/14/2015 3:12:55 PM



#89
Benzo(a)pyrene
Concen: 34.36 ng
RT: 24.79 min Scan# 2052
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.2	25.8
125	5.5	18.0	27.0





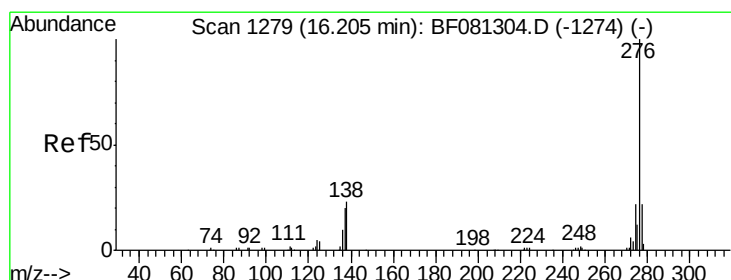
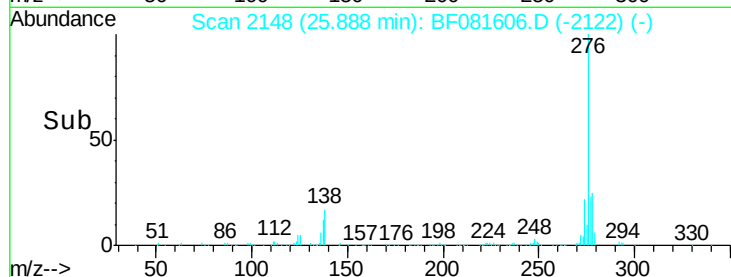
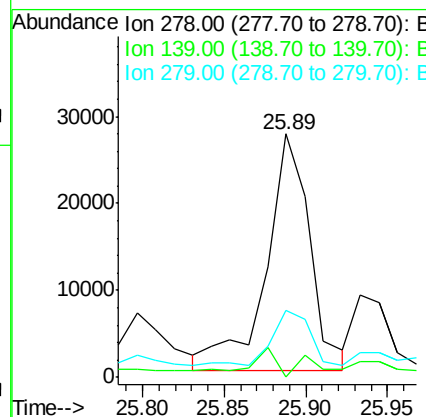
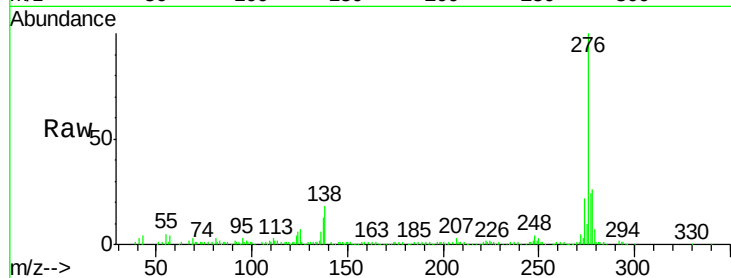
#90
Dibenzo(a,h)anthracene
Concen: 8.10 ng
RT: 25.89 min Scan# 2148
Delta R.T. 0.00 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Instrument :
BNA_F
ClientSampleId :
DUP001RE

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	26.3	39.5#
279	27.7	18.2	27.4#

Manual Integrations
APPROVED

MMDadoda
9/14/2015 3:12:55 PM



#91
Benzo(g,h,i)perylene
Concen: 24.52 ng
RT: 26.20 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF081606.D
Acq: 14 Sep 2015 13:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.8	26.6
138	16.5	34.6	51.8#

