

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
 Data File : BF090971.D
 Acq On : 2 Nov 2016 00:33
 Operator : UM/SJ
 Sample : H5493-25
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-6(0-2)

Manual Integrations
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 11/2/2016 5:42:47 PM

Quant Time: Nov 02 02:24:52 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 01 11:53:50 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	173320	20.00	ng	-0.01
21) Naphthalene-d8	8.03	136	699198	20.00	ng	-0.01
38) Acenaphthene-d10	9.78	164	339017	20.00	ng	-0.01
63) Phenanthrene-d10	11.26	188	446556	20.00	ng	0.00
75) Chrysene-d12	13.93	240	348671	20.00	ng	0.02
86) Perylene-d12	15.33	264	328353	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1207595	121.82	ng	0.00
7) Phenol-d6	6.38	99	1518375	113.53	ng	-0.01
23) Nitrobenzene-d5	7.31	82	1096711	102.68	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	300480	86.25	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	1469997	76.14	ng	-0.01
78) Terphenyl-d14	12.85	244	1162202	83.98	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.04	128	602562	18.44	ng	98
37) 2-Methylnaphthalene	8.74	142	160512	7.60	ng	# 88
45) 1,1'-Biphenyl	9.21	154	73851	3.02	ng	96
48) Acenaphthylene	9.64	152	1876271	66.71	ng	# 92
49) Dimethylphthalate	9.50	163	582162	25.70	ng	# 98
51) Acenaphthene	9.81	154	518046	26.74	ng	88
54) Dibenzofuran	9.98	168	439945	17.60	ng	# 72
57) Fluorene	10.33	166	1291987	63.10	ng	# 90
70) Phenanthrene	11.30	178	4928552m	216.73	ng	
71) Anthracene	11.36	178	2833755	118.34	ng	94
72) Carbazole	11.51	167	223568	10.57	ng	# 84
73) Di-n-butylphthalate	11.84	149	90339	3.31	ng	# 83
74) Fluoranthene	12.51	202	6235563	250.39	ng	90
77) Pyrene	12.73	202	5655634m	256.31	ng	
80) Benzo(a)anthracene	13.92	228	4120095	222.65	ng	# 82
82) Chrysene	13.95	228	3671669	196.17	ng	# 85
85) Indeno(1,2,3-cd)pyrene	16.69	276	2155355	129.95	ng	# 86
87) Benzo(b)fluoranthene	14.95	252	4597428m	208.22	ng	
88) Benzo(k)fluoranthene	14.96	252	1559054m	89.35	ng	
89) Benzo(a)pyrene	15.29	252	3733253	196.79	ng	# 83
90) Dibenzo(a,h)anthracene	16.69	278	651030	40.54	ng	# 79
91) Benzo(g,h,i)perylene	17.11	276	1918293	126.82	ng	# 81

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

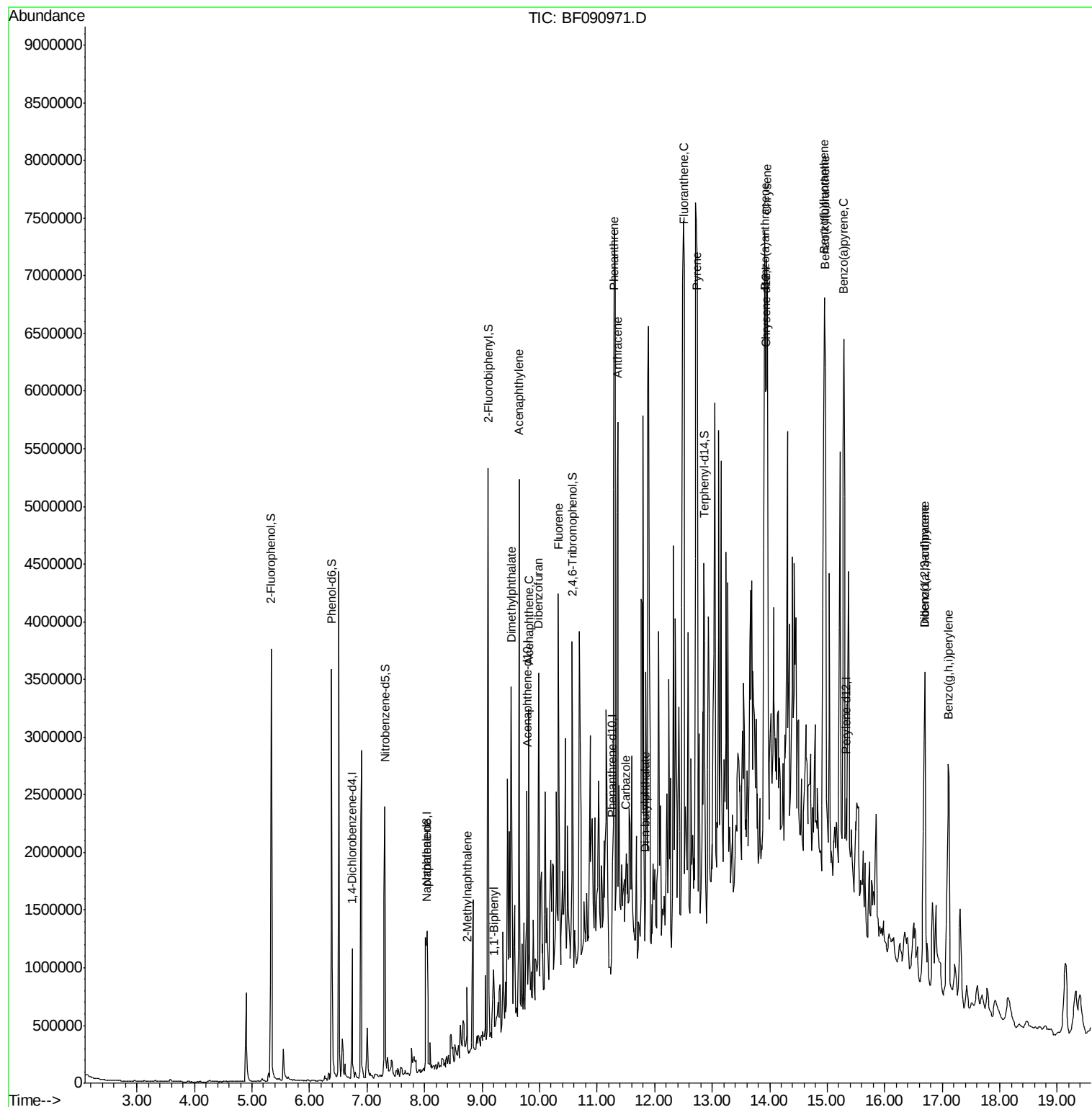
Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090971.D
Acq On : 2 Nov 2016 00:33
Operator : UM/SJ
Sample : H5493-25
Misc :
ALS Vial : 25 Sample Multiplier: 1

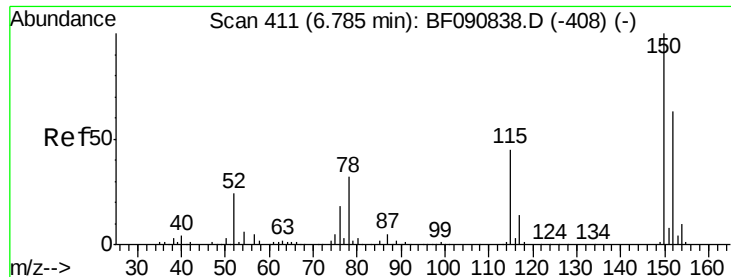
Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)

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Quant Time: Nov 02 02:24:52 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 01 11:53:50 2016
Response via : Initial Calibration





#1

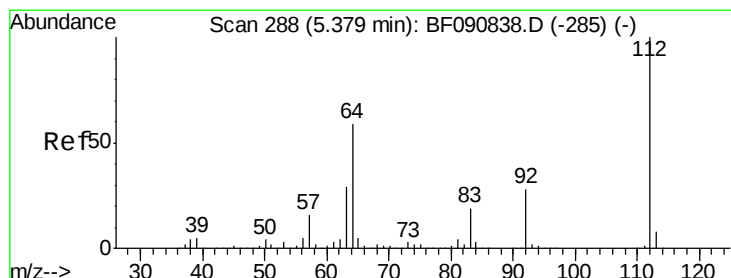
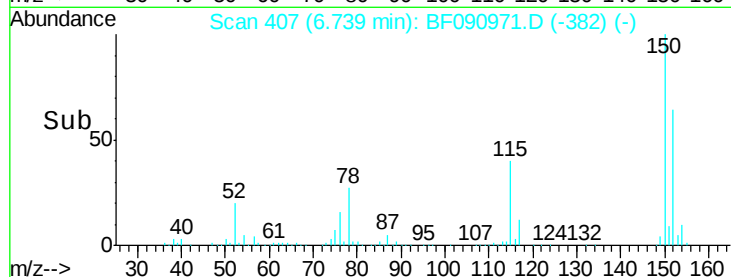
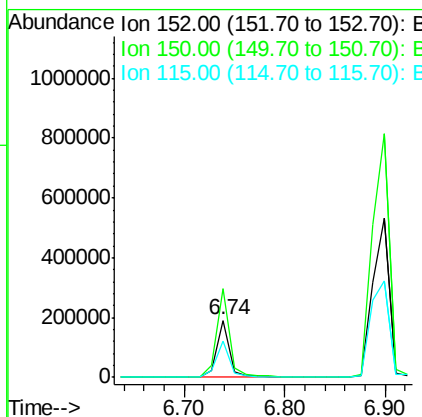
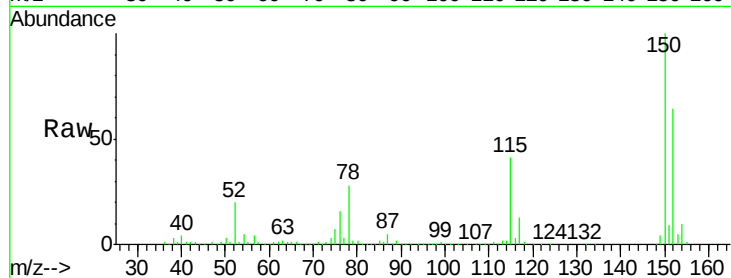
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 407
Delta R.T. -0.01 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampled :
SB-6(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.7	187.1
115	63.5	39.0	58.4

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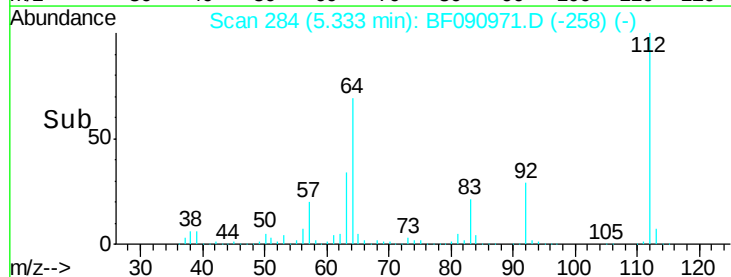
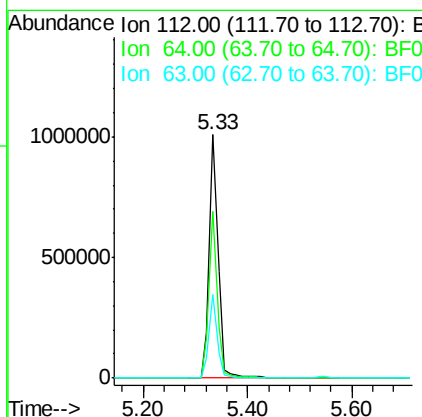
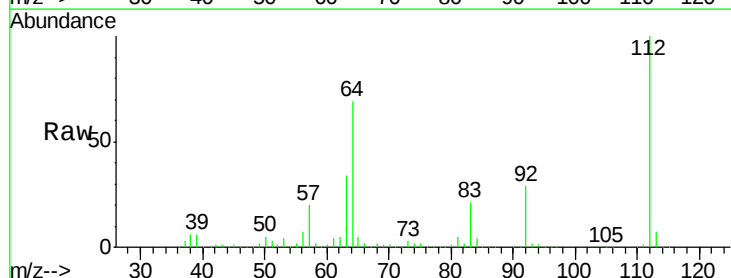
Umangi
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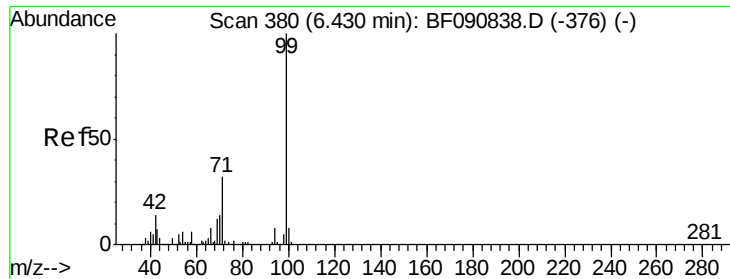


#5

2-Fluorophenol
Concen: 121.82 ng
RT: 5.33 min Scan# 284
Delta R.T. 0.00 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.6	39.7	59.5
63	34.4	17.4	26.0





#7

Phenol-d6

Concen: 113.53 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

ClientSampleId :

SB-6(0-2)

Tot Ion: 99 Resp: 1518375

Ion Ratio Lower Upper

99 100

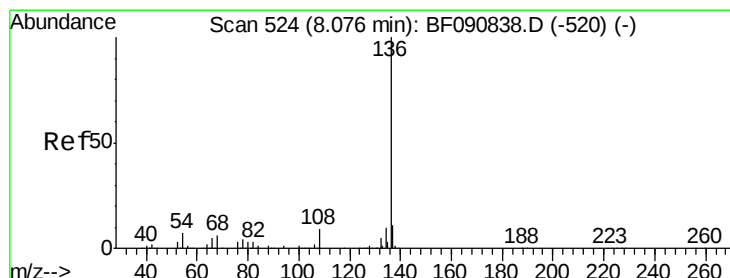
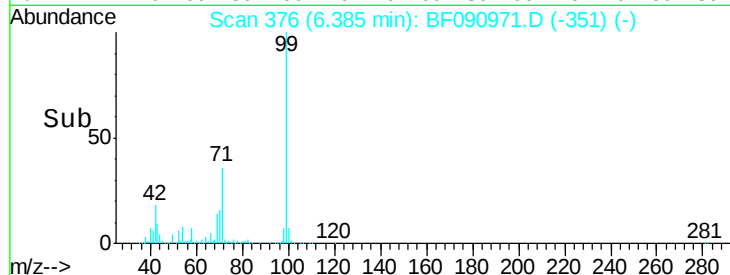
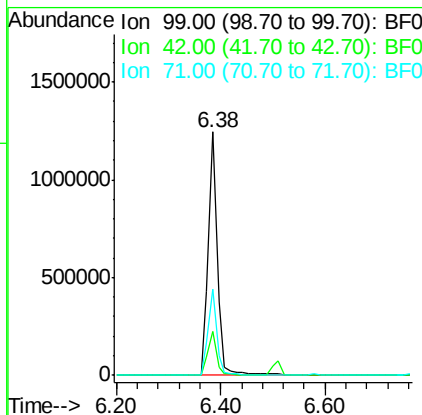
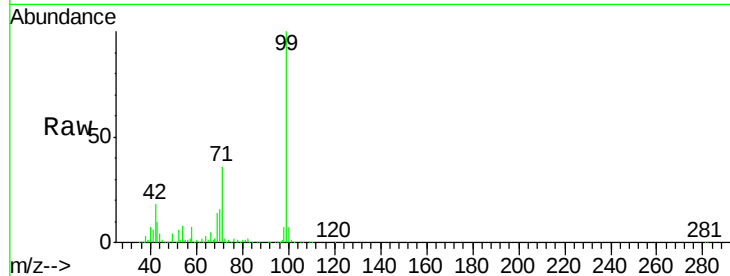
42 18.0 13.7 20.5

71 35.6 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 520

Delta R.T. -0.01 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Tgt Ion: 136 Resp: 699198

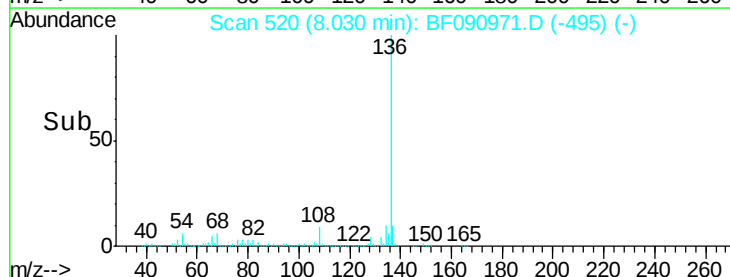
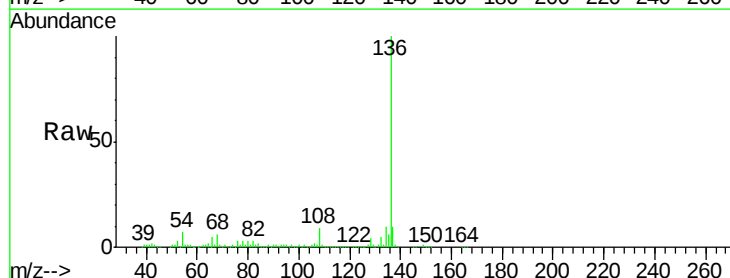
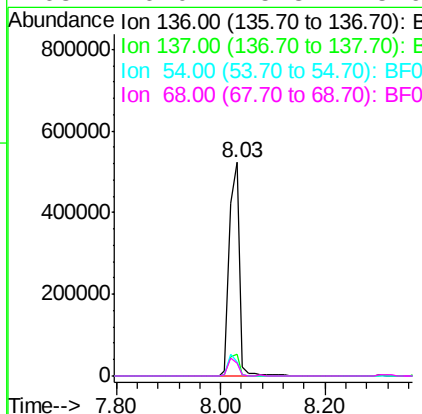
Ion Ratio Lower Upper

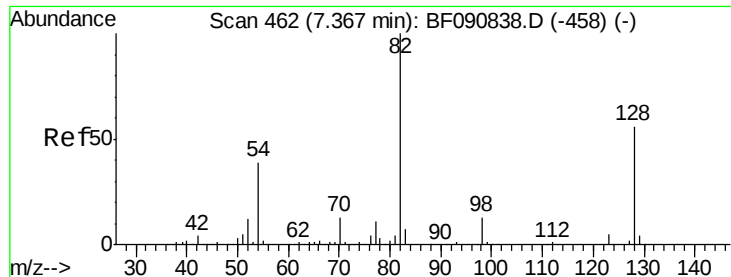
136 100

137 10.4 9.0 13.6

54 6.5 8.2 12.2#

68 6.0 5.8 8.6





#23

Nitrobenzene-d5

Concen: 102.68 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.01 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

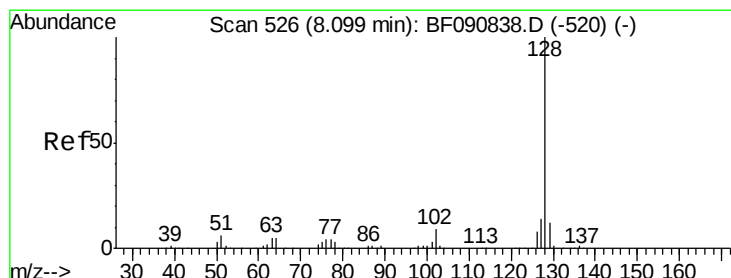
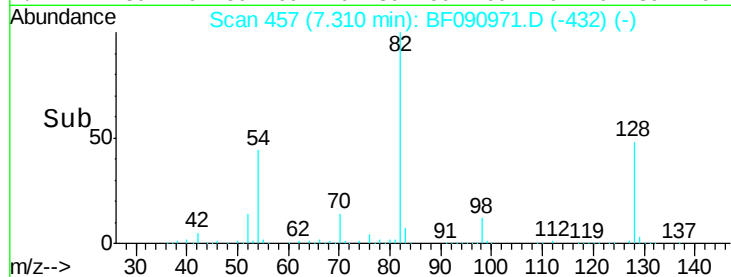
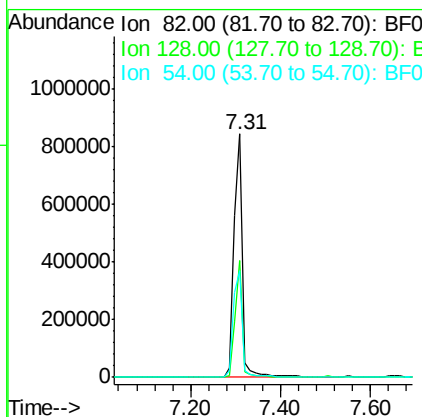
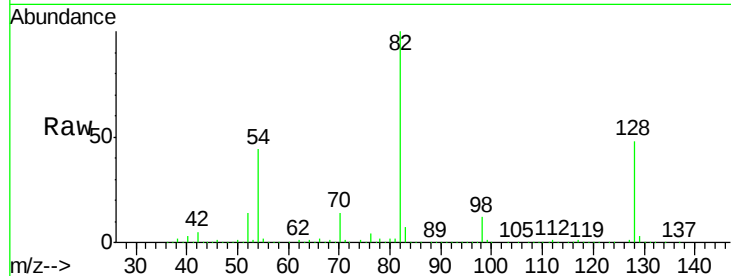
ClientSampled :

SB-6(0-2)

Tot Ion:	82	Resp:	1096711
Ion Ratio	Lower	Upper	
82	100		
128	47.8	51.0	76.6#
54	43.9	47.5	71.3#

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#31

Naphthalene

Concen: 18.44 ng

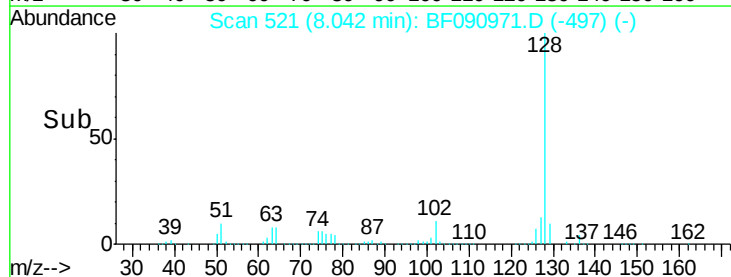
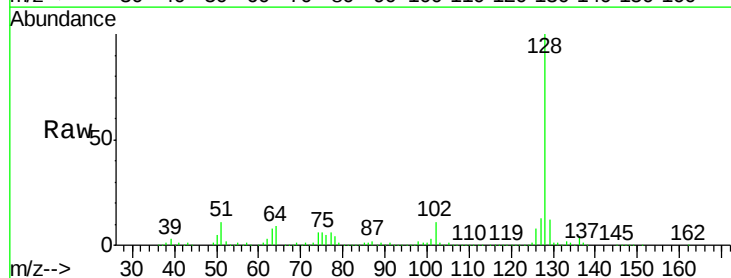
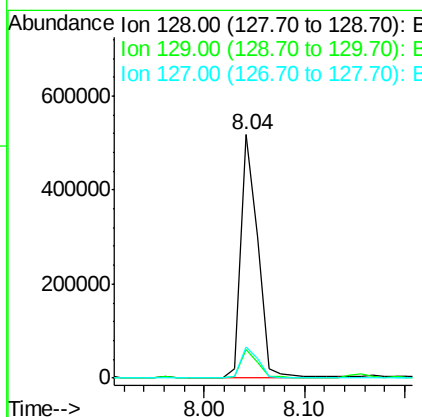
RT: 8.04 min Scan# 521

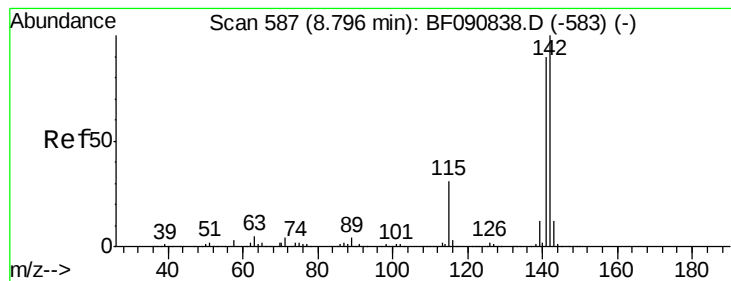
Delta R.T. -0.02 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Tgt Ion:	128	Resp:	602562
Ion Ratio	Lower	Upper	
128	100		
129	11.5	8.4	12.6
127	12.9	9.9	14.9





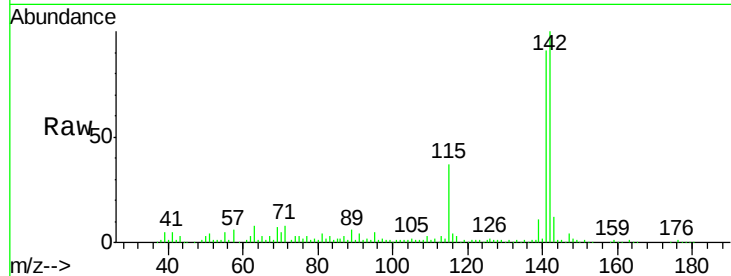
#37
2-Methylnaphthalene
Concen: 7.60 ng
RT: 8.74 min Scan# 582
Delta R.T. -0.01 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampled :
SB-6(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	160512		
141	91.0	67.5	101.3	
115	37.1	18.2	27.2	

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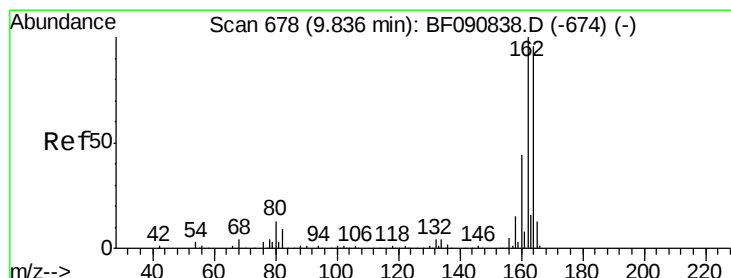
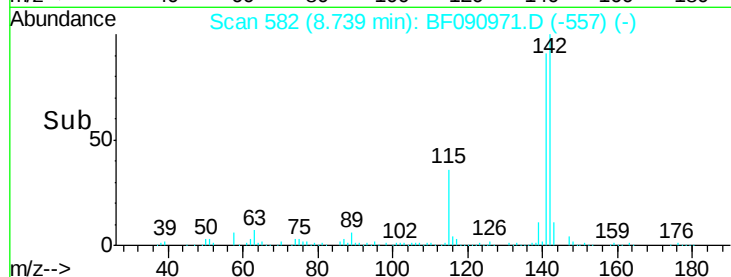
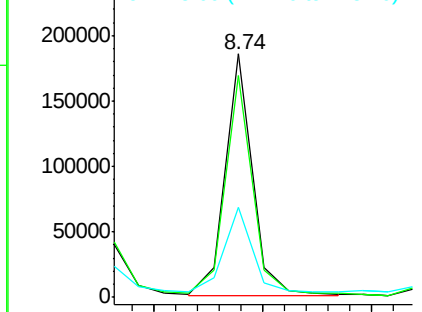


Abundance

Ion 142.00 (141.70 to 142.70): E

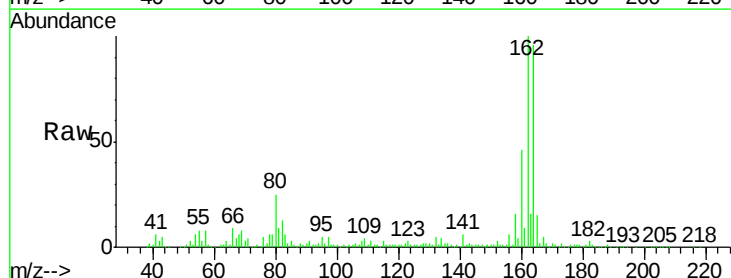
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.78 min Scan# 673
Delta R.T. -0.01 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	339017		
162	104.1	75.2	112.8	
160	47.9	31.5	47.3	

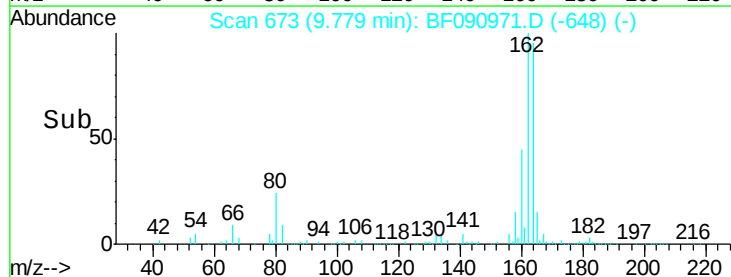
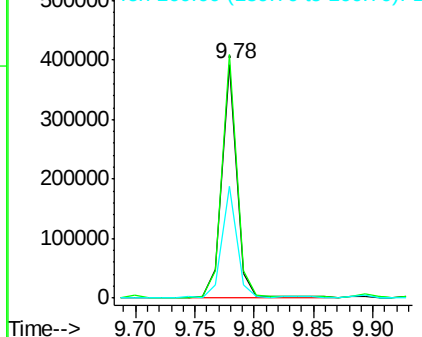


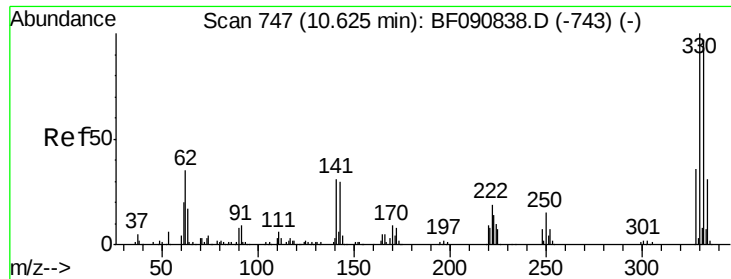
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





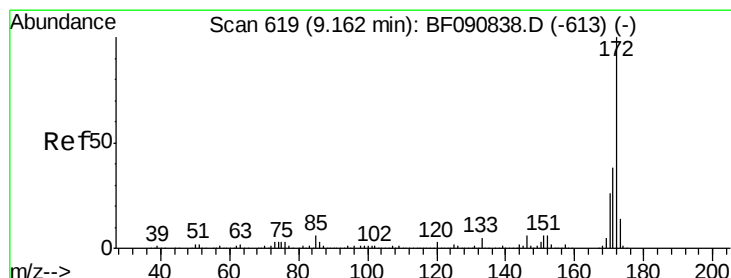
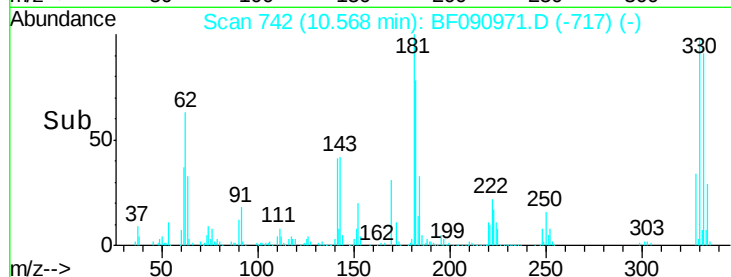
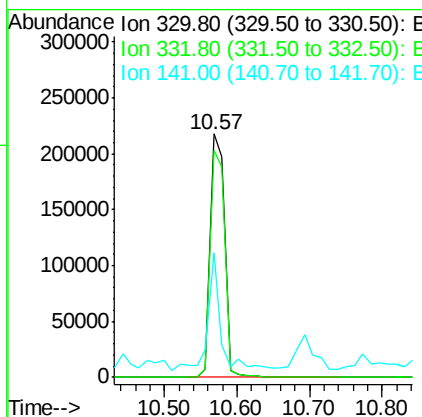
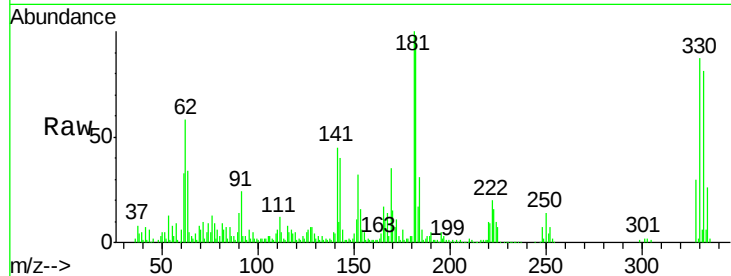
#41
 2,4,6-Tribromophenol
 Concen: 86.25 ng
 RT: 10.57 min Scan# 742
 Delta R.T. -0.01 min
 Lab File: BF090971.D
 Acq: 2 Nov 2016 00:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-6(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	300480		
332	94.0		76.6	114.8
141	36.3		29.7	44.5

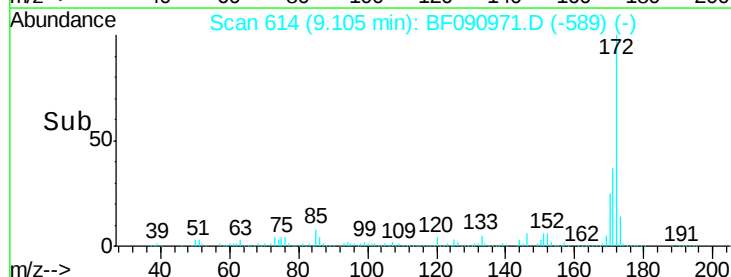
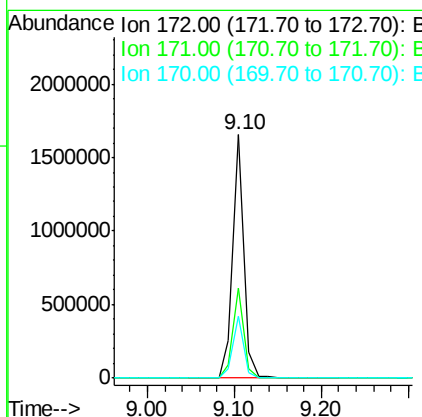
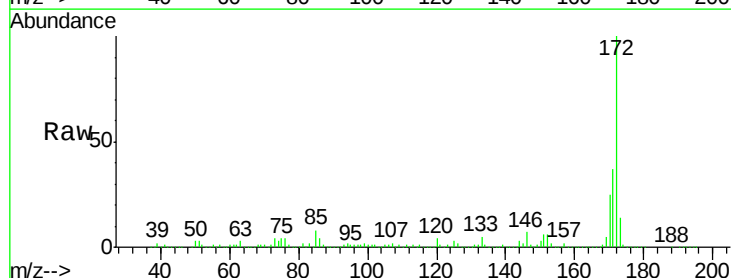
Manual Integrations
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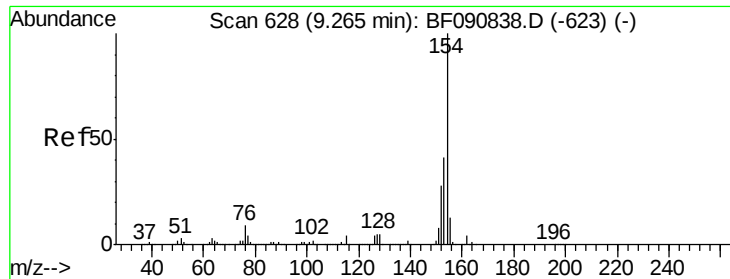
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#44
 2-Fluorobiphenyl
 Concen: 76.14 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.01 min
 Lab File: BF090971.D
 Acq: 2 Nov 2016 00:33

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1469997		
171	36.8		26.1	39.1
170	25.4		17.4	26.2





#45

1,1'-Biphenyl

Concen: 3.02 ng

RT: 9.21 min Scan# 623

Delta R.T. -0.01 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

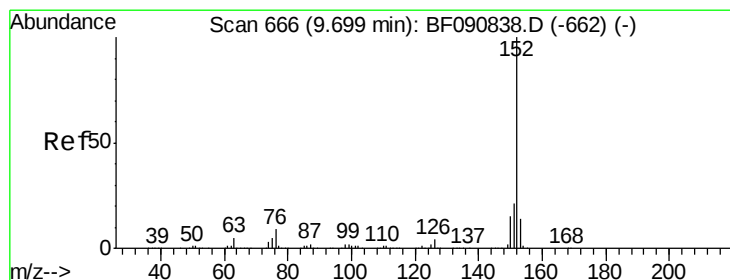
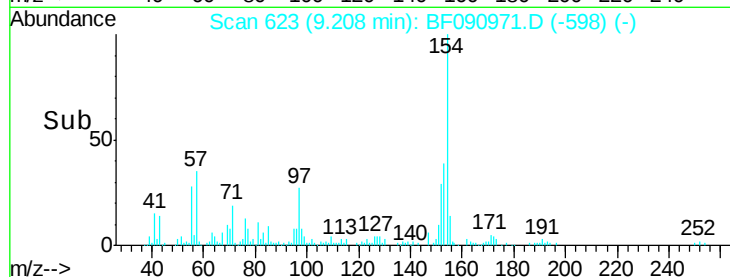
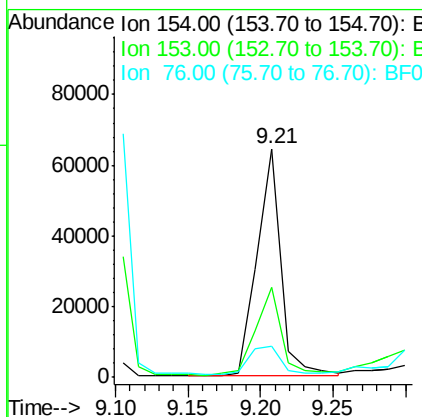
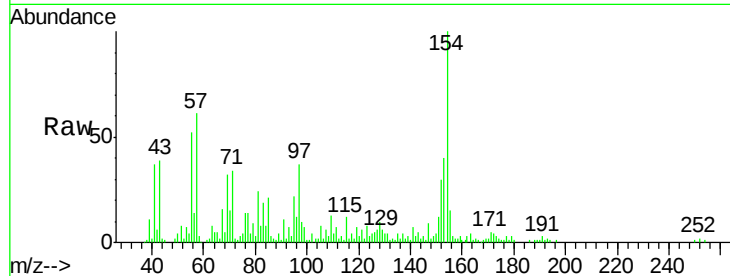
ClientSampleId :

SB-6(0-2)

Tot Ion:	154	Resp:	73851
Ion Ratio	Lower	Upper	
154	100		
153	39.5	17.1	57.1
76	13.7	0.0	31.6

Manual Integrations
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#48

Acenaphthylene

Concen: 66.71 ng

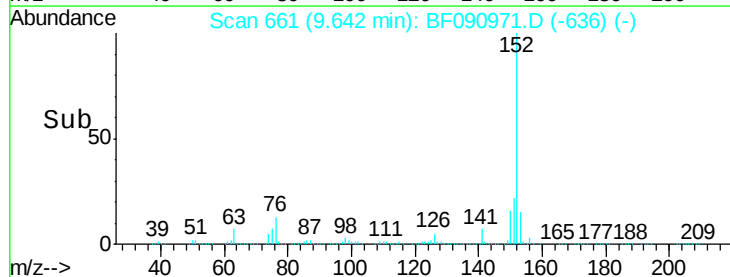
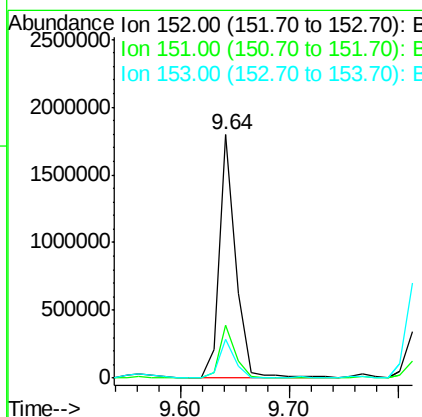
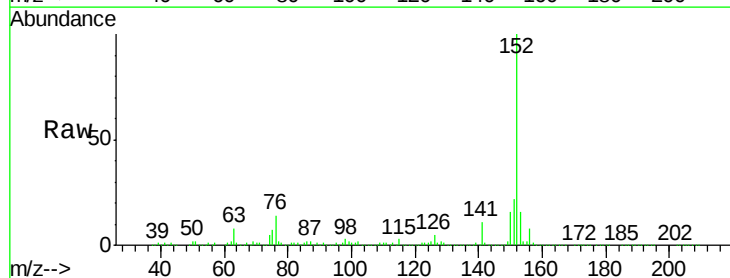
RT: 9.64 min Scan# 661

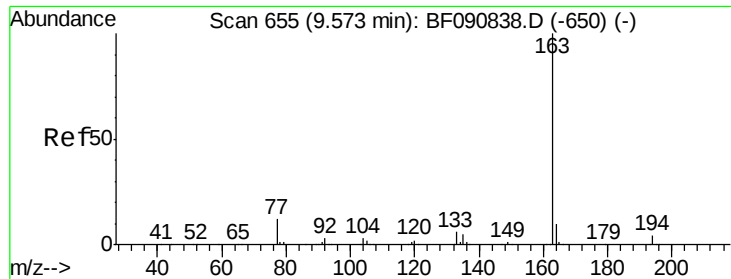
Delta R.T. -0.01 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Tgt Ion:	152	Resp:	1876271
Ion Ratio	Lower	Upper	
152	100		
151	21.9	14.6	22.0
153	15.7	10.3	15.5#





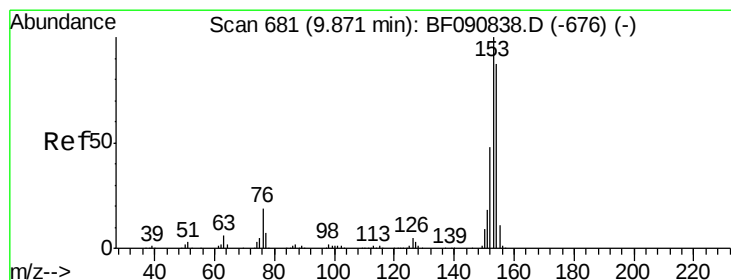
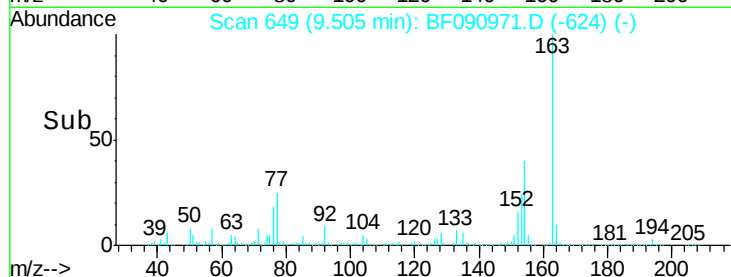
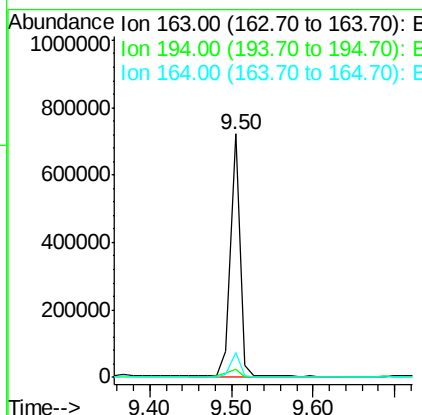
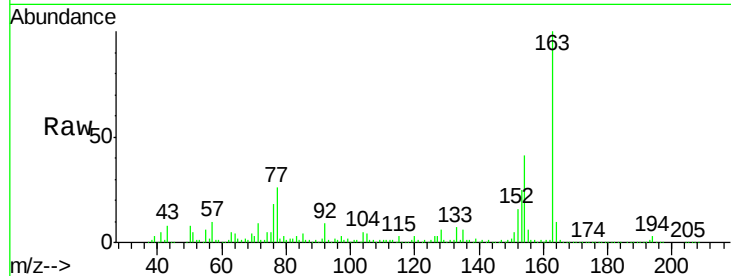
#49
Dimethylphthalate
Concen: 25.70 ng
RT: 9.50 min Scan# 649
Delta R.T. -0.01 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	582162		
194	3.4	4.4	6.6#	
164	10.4	8.3	12.5	

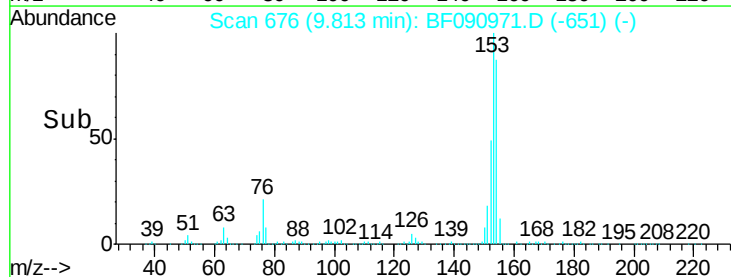
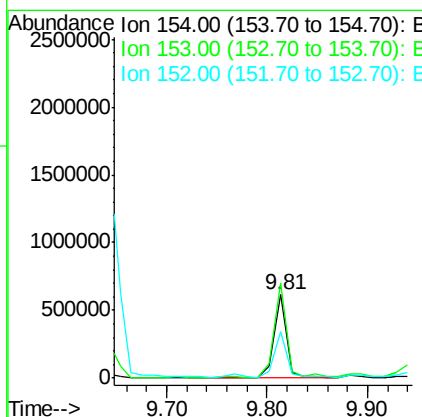
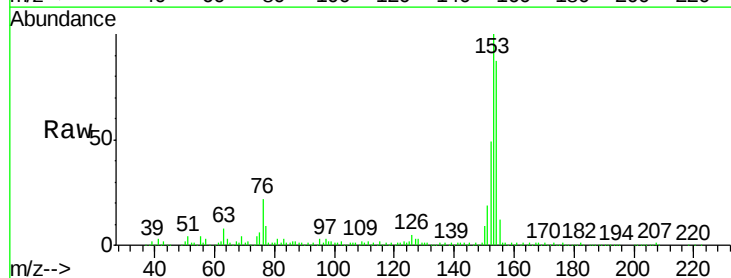
Manual Integrations
APPROVED

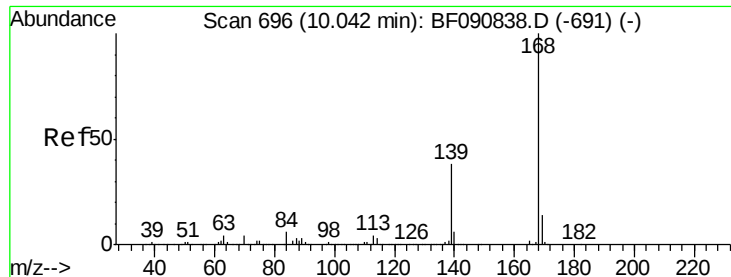
Umangi
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#51
Acenaphthene
Concen: 26.74 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	518046		
153	114.5	82.1	123.1	
152	56.1	37.9	56.9	





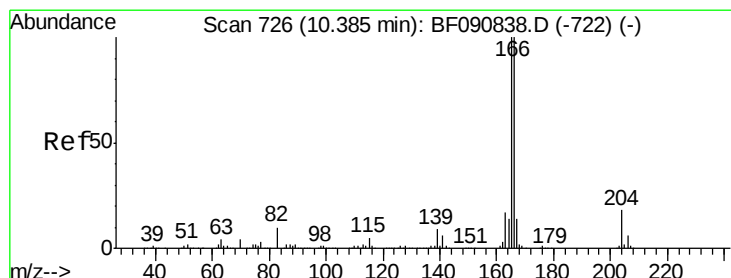
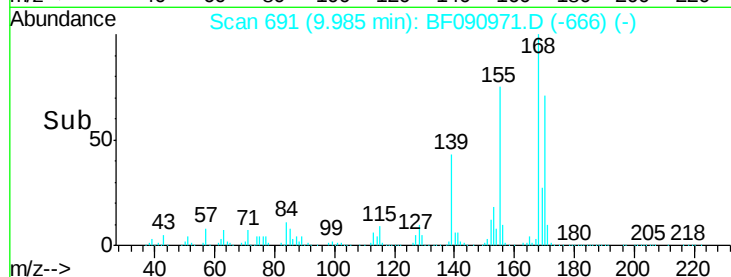
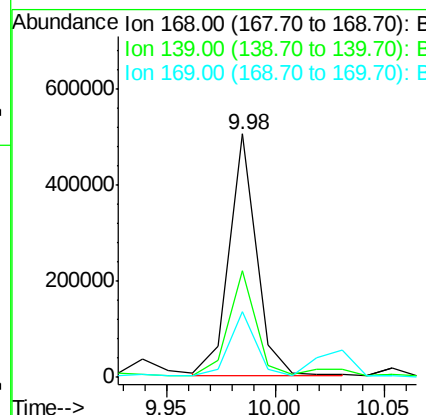
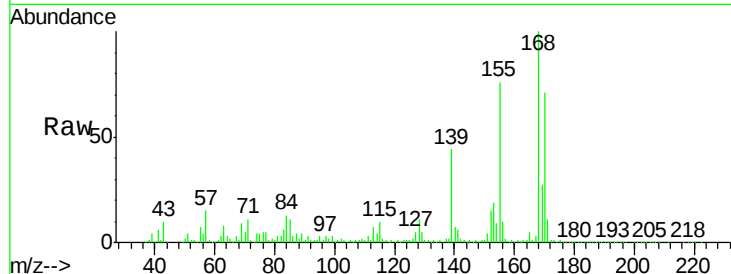
#54
Dibenzofuran
Concen: 17.60 ng
RT: 9.98 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)

Tot Ion	Ratio	Lower	Upper
168	100		
139	43.9	24.2	36.2#
169	27.1	10.6	15.8#

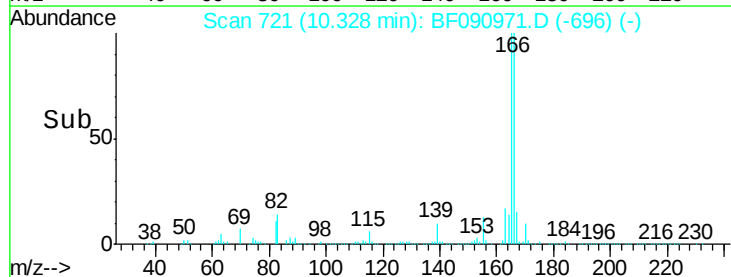
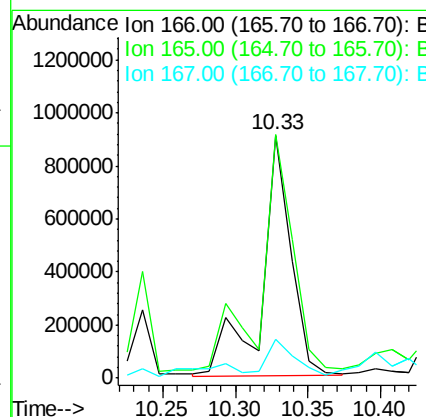
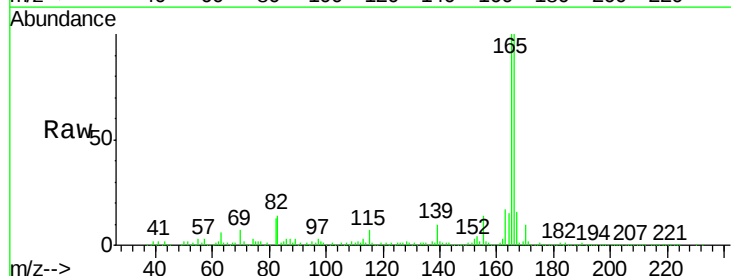
Manual Integrations
APPROVED

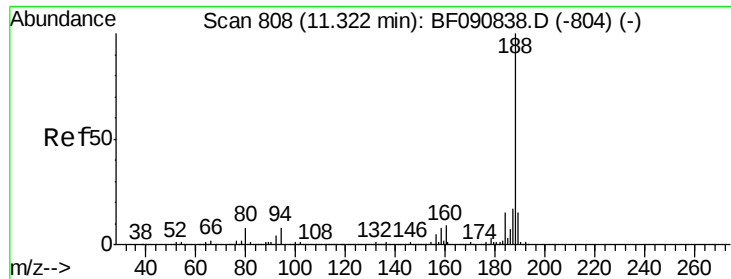
Umangi
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#57
Fluorene
Concen: 63.10 ng
RT: 10.33 min Scan# 721
Delta R.T. -0.01 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.4	72.6	109.0
167	16.1	10.6	16.0#





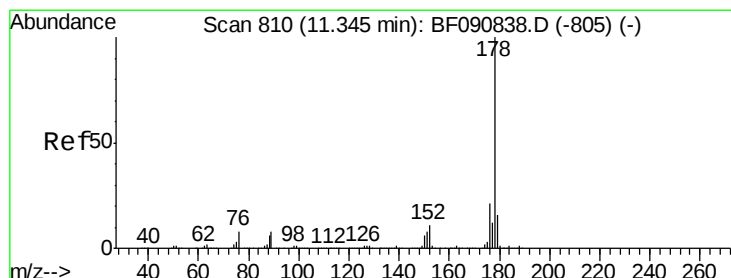
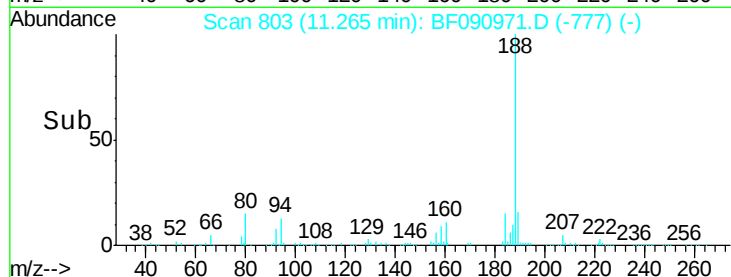
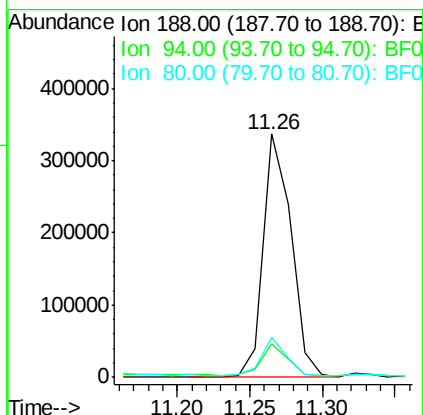
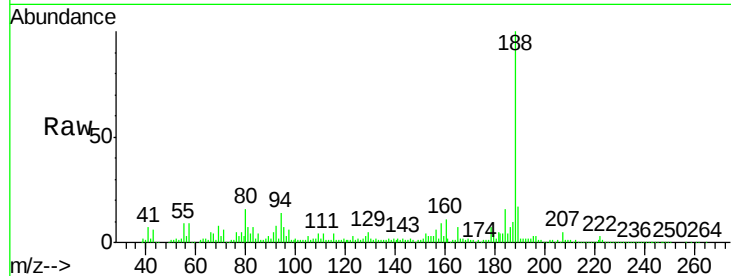
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.26 min Scan# 803
Delta R.T. 0.00 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	446556		
94	13.9		11.1	16.7
80	16.3		11.0	16.4

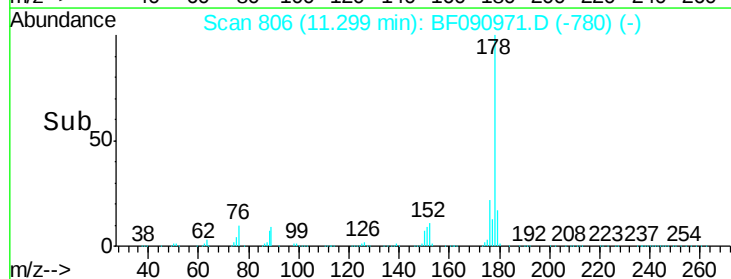
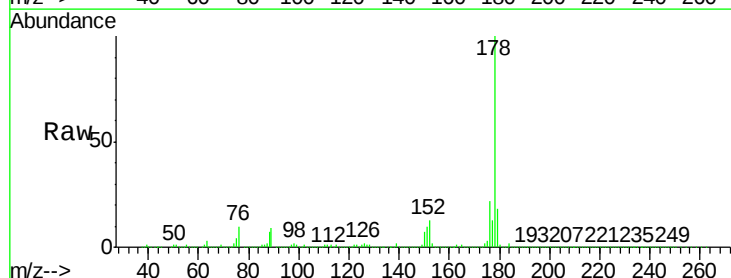
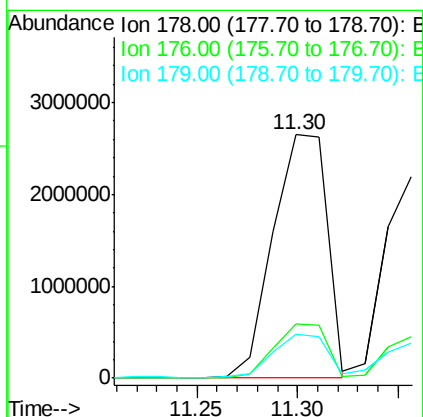
Manual Integrations
APPROVED

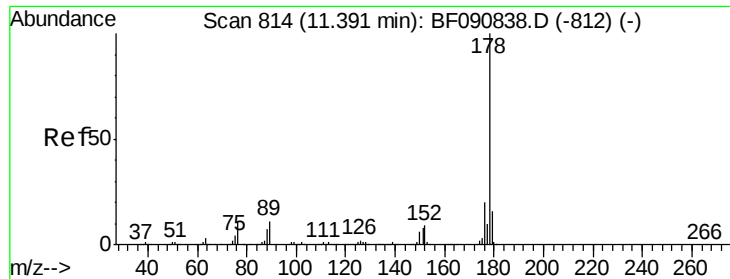
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#70
Phenanthrene
Concen: 216.73 ng m
RT: 11.30 min Scan# 806
Delta R.T. 0.00 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	4928552		
176	22.3		13.8	20.8#
179	17.8		12.2	18.2





#71

Anthracene

Concen: 118.34 ng

RT: 11.36 min Scan# 811

Delta R.T. 0.01 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

ClientSampleId :

SB-6(0-2)

Tot Ion:178 Resp: 2833755

Ion Ratio Lower Upper

178 100

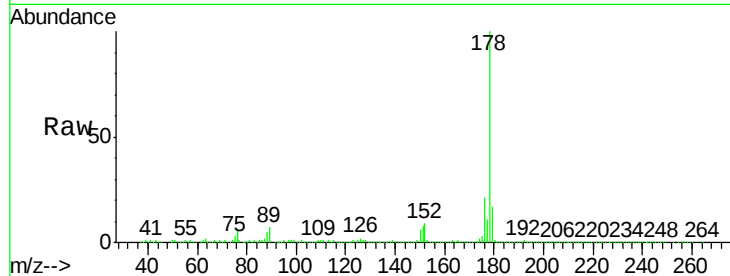
176 20.7 14.1 21.1

179 17.1 12.2 18.2

Manual Integrations
APPROVED

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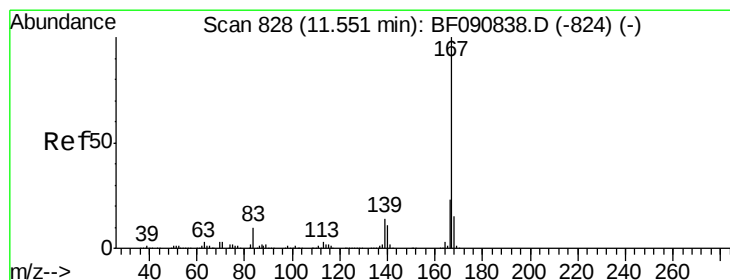
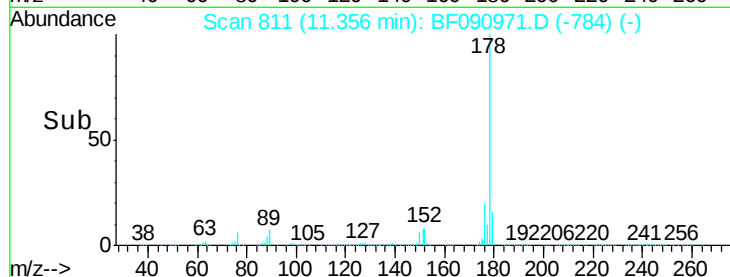
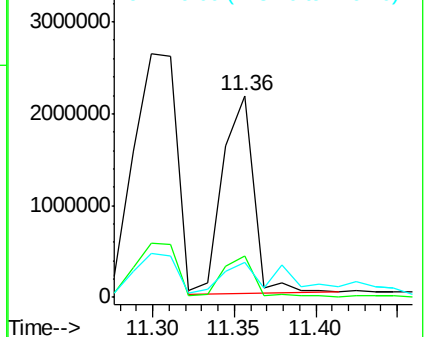
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 10.57 ng

RT: 11.51 min Scan# 824

Delta R.T. 0.00 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

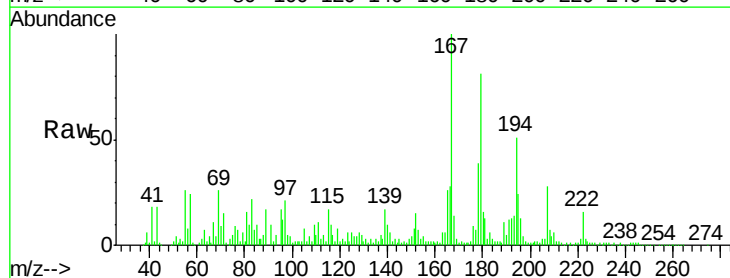
Tgt Ion:167 Resp: 223568

Ion Ratio Lower Upper

167 100

166 27.8 15.7 23.5#

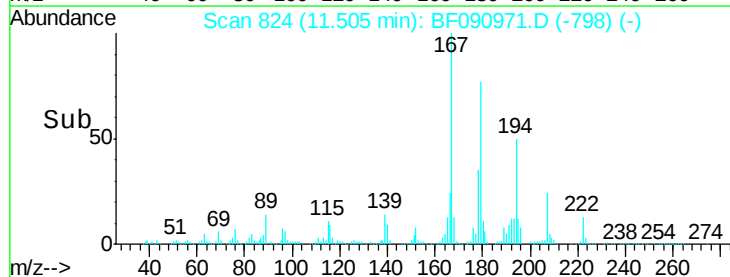
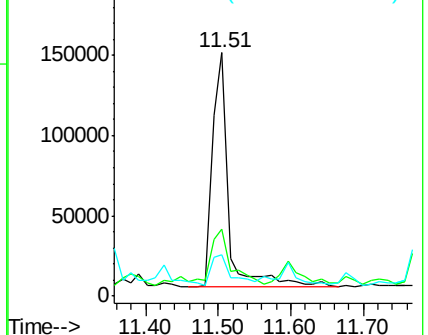
139 16.9 9.5 14.3#

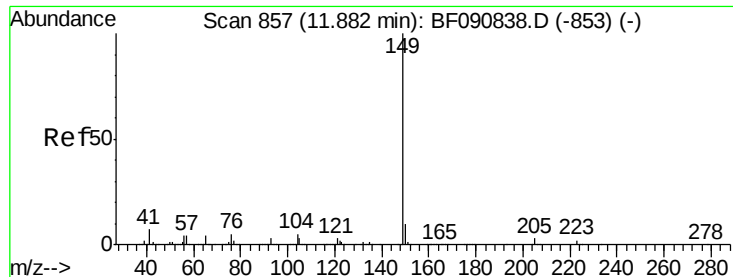


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 3.31 ng

RT: 11.84 min Scan# 853

Delta R.T. 0.00 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

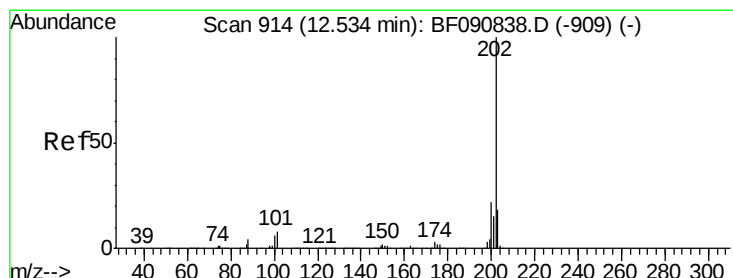
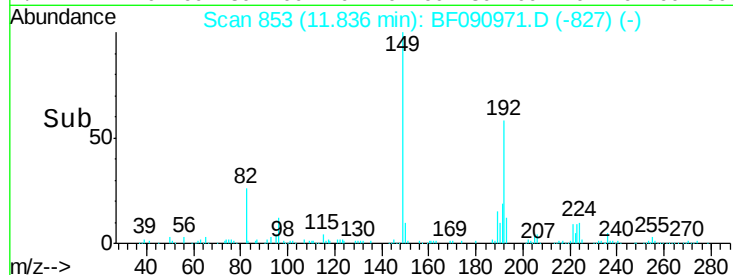
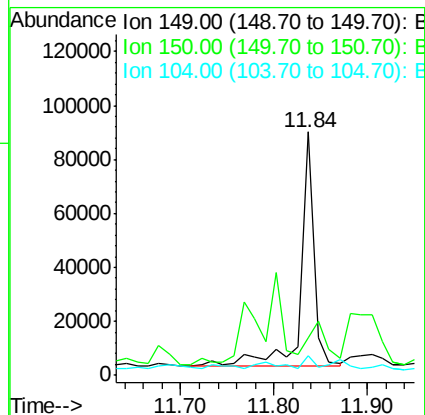
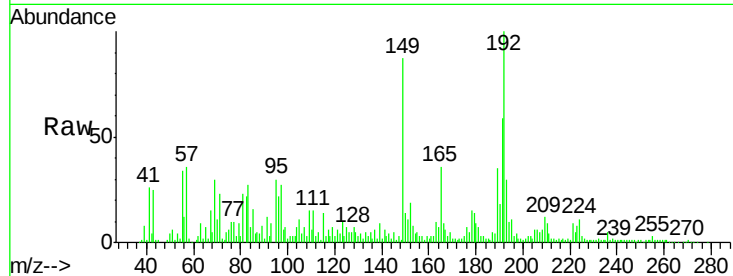
ClientSampleId :

SB-6(0-2)

Tot Ion:	149	Resp:	90339
Ion Ratio	Lower	Upper	
149	100		
150	15.6	7.4	11.2#
104	7.9	2.4	3.6#

Manual Integrations
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#74

Fluoranthene

Concen: 250.39 ng

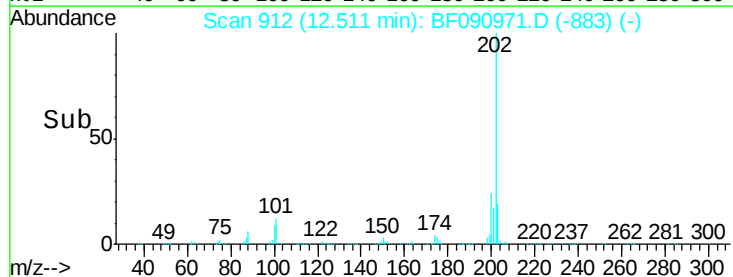
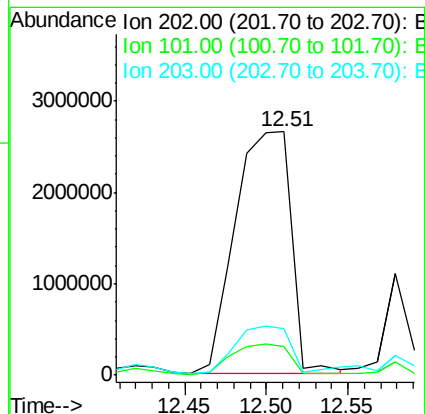
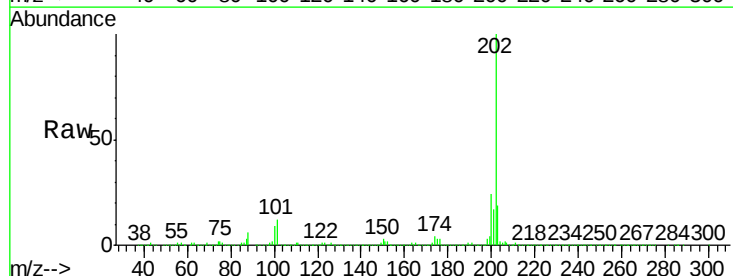
RT: 12.51 min Scan# 912

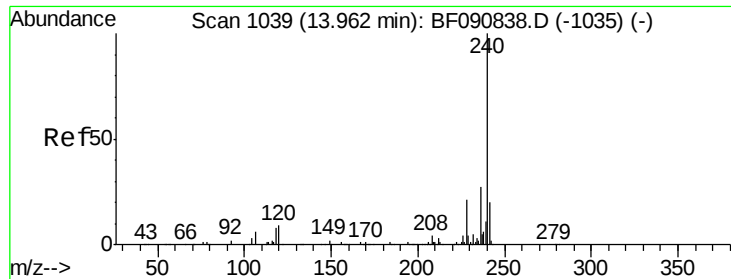
Delta R.T. 0.03 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Tgt Ion:	202	Resp:	6235563
Ion Ratio	Lower	Upper	
202	100		
101	11.8	0.0	38.3
203	19.3	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1036

Delta R.T. 0.02 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

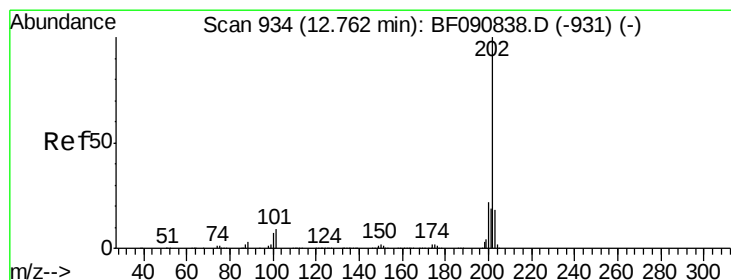
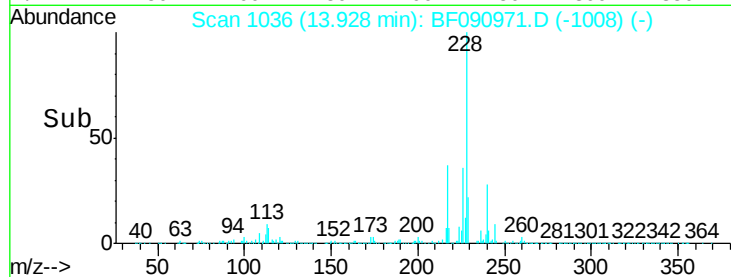
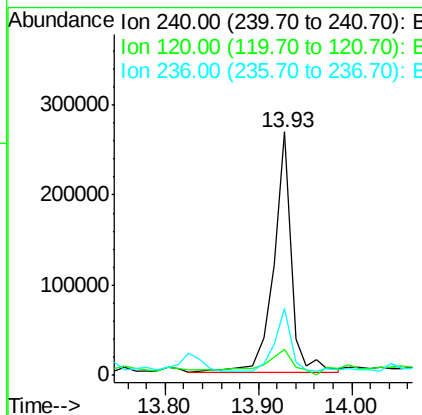
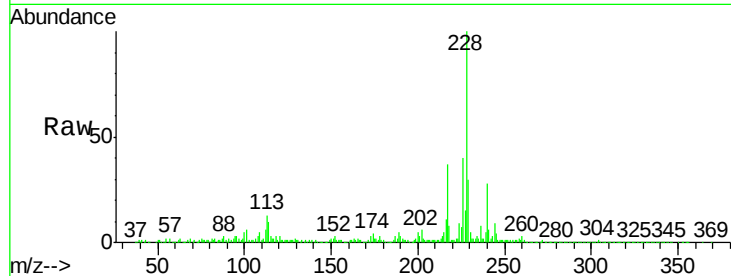
ClientSampleId :

SB-6(0-2)

Tot Ion:	240	Resp:	348671
Ion Ratio	Lower	Upper	
240	100		
120	10.6	16.2	24.2#
236	27.4	18.4	27.6

Manual Integrations
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#77

Pyrene

Concen: 256.31 ng m

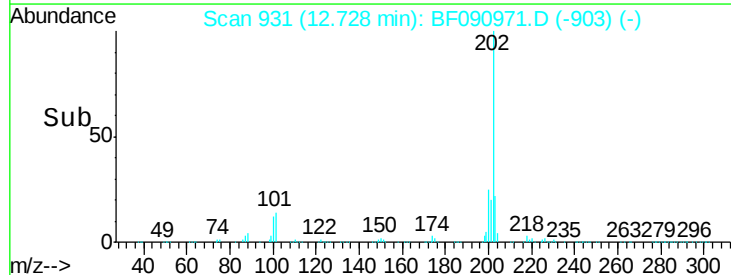
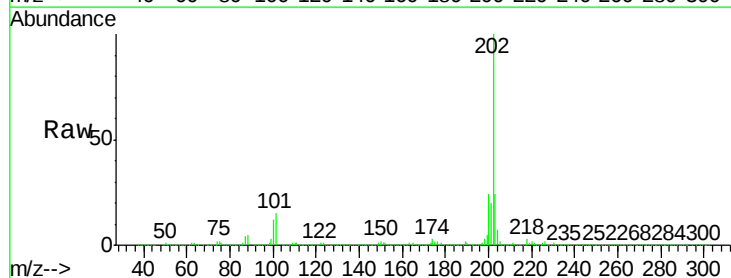
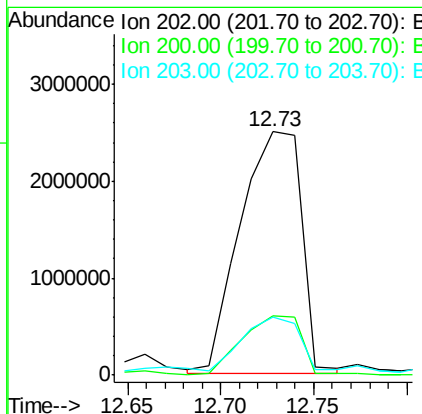
RT: 12.73 min Scan# 931

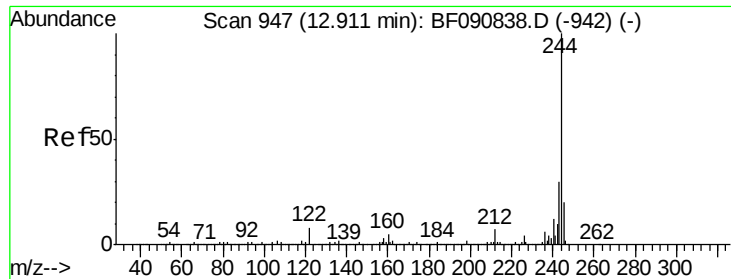
Delta R.T. 0.02 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Tgt Ion:	202	Resp:	5655634
Ion Ratio	Lower	Upper	
202	100		
200	24.5	15.0	22.4#
203	24.1	14.1	21.1#





#78

Terphenyl-d14

Concen: 83.98 ng

RT: 12.85 min Scan# 942

Delta R.T. 0.00 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

ClientSampleId :

SB-6(0-2)

Tot Ion:244 Resp: 1162202

Ion Ratio Lower Upper

244 100

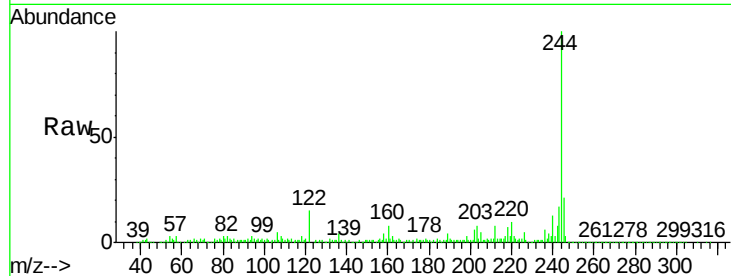
212 7.7 4.3 6.5#

122 14.5 17.4 26.2#

Manual Integrations
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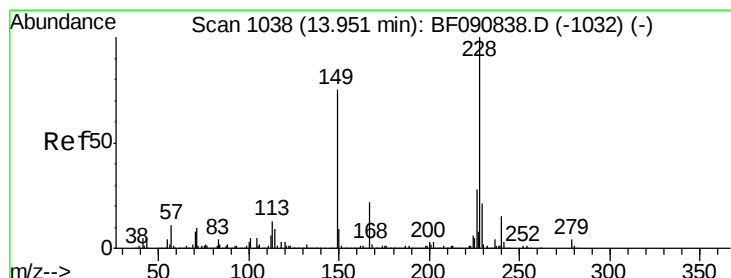
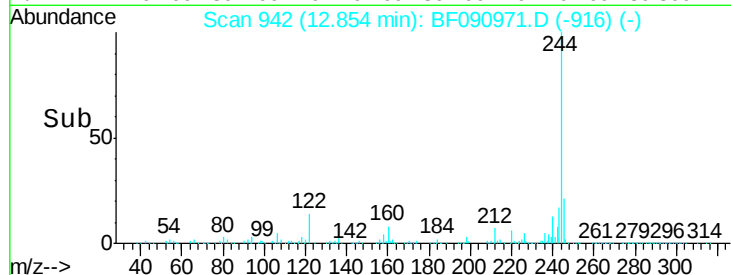
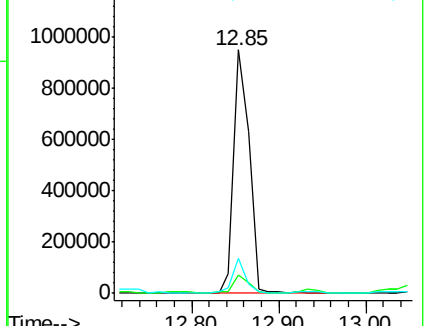
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 222.65 ng

RT: 13.92 min Scan# 1035

Delta R.T. 0.02 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

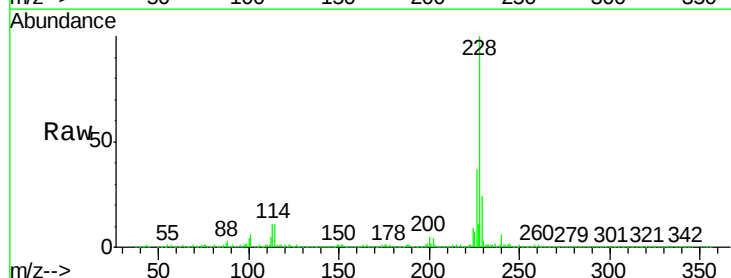
Tgt Ion:228 Resp: 4120095

Ion Ratio Lower Upper

228 100

226 37.0 20.0 30.0#

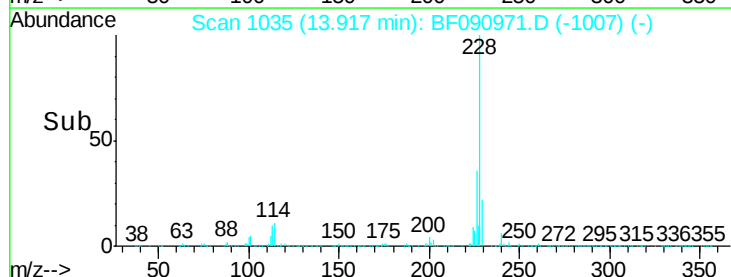
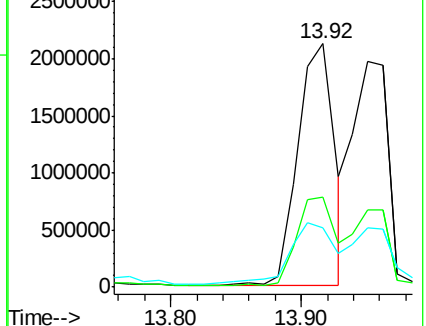
229 24.2 15.4 23.2#

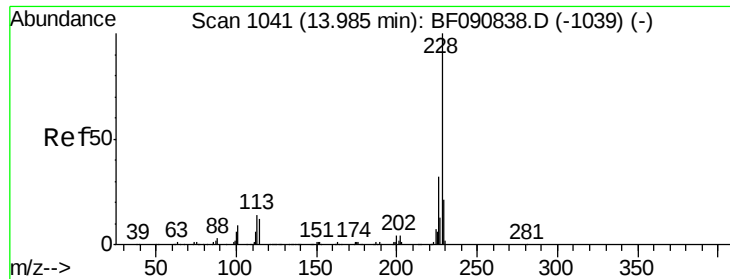


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





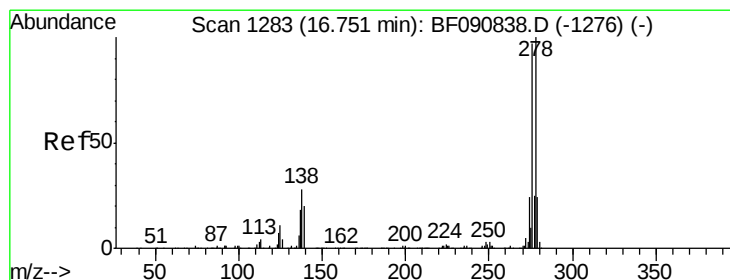
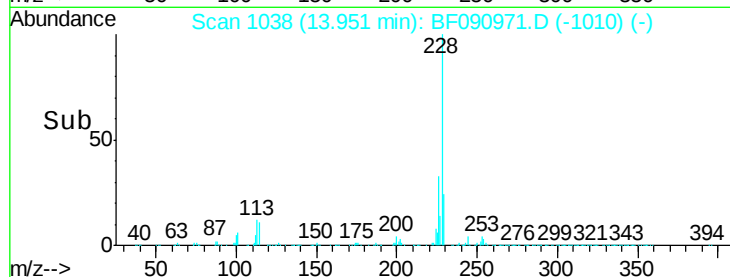
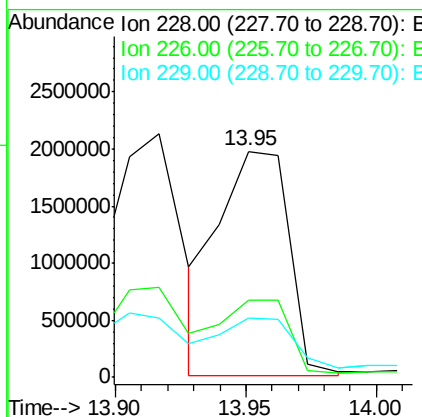
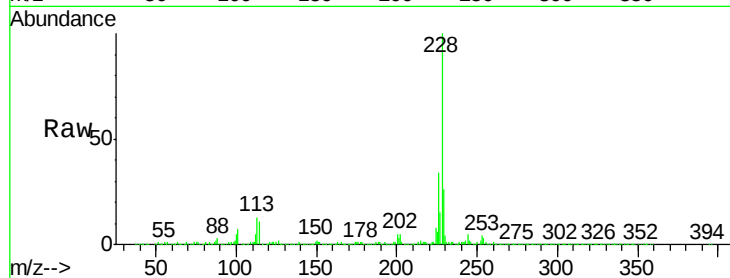
#82
Chrysene
Concen: 196.17 ng
RT: 13.95 min Scan# 1038
Delta R.T. 0.02 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)

Tot Ion:228 Resp: 3671669
Ion Ratio Lower Upper
228 100
226 34.0 21.0 31.4#
229 26.2 15.6 23.4#

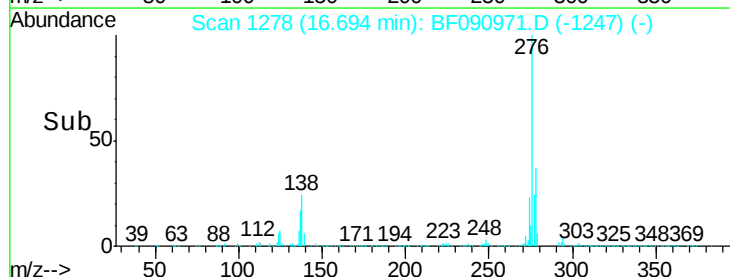
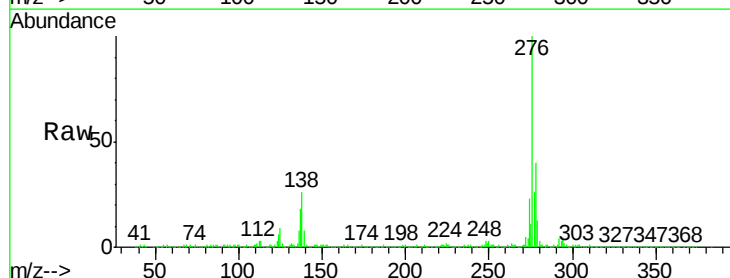
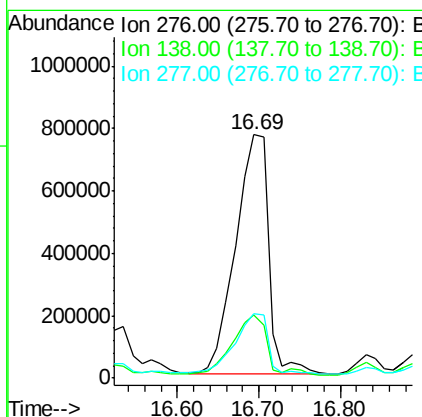
Manual Integrations
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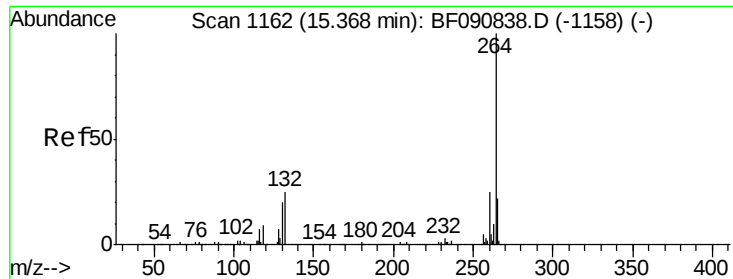
Umangi
11/2/2016 5:42:47 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 129.95 ng
RT: 16.69 min Scan# 1278
Delta R.T. 0.06 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion:276 Resp: 2155355
Ion Ratio Lower Upper
276 100
138 23.9 25.7 38.5#
277 25.5 15.6 23.4#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.33 min Scan# 1159

Delta R.T. 0.03 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Instrument :

BNA_F

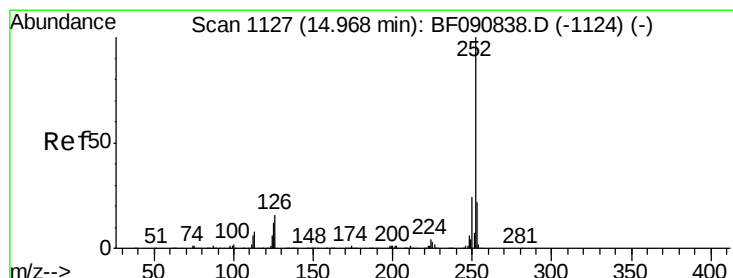
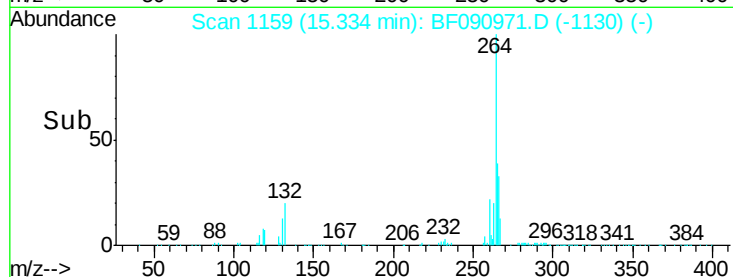
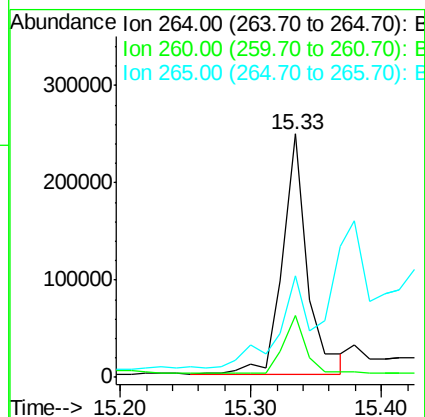
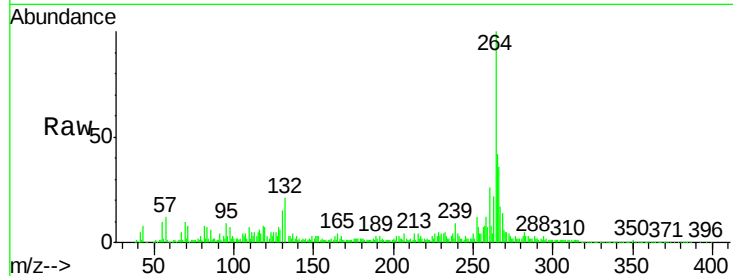
ClientSampleId :

SB-6(0-2)

Tot Ion:	264	Resp:	328353
Ion Ratio	Lower	Upper	
264	100		
260	25.5	16.7	25.1#
265	41.9	17.2	25.8#

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#87

Benzo(b)fluoranthene

Concen: 208.22 ng m

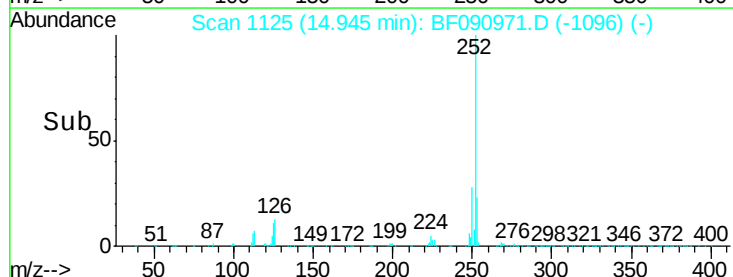
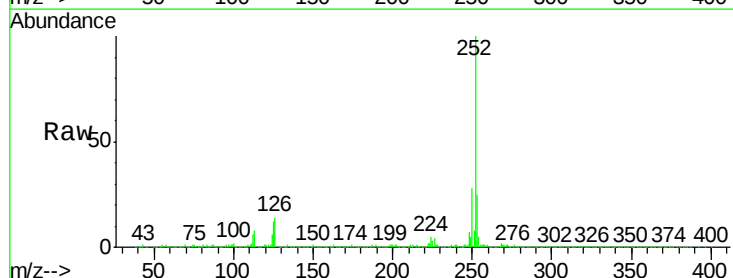
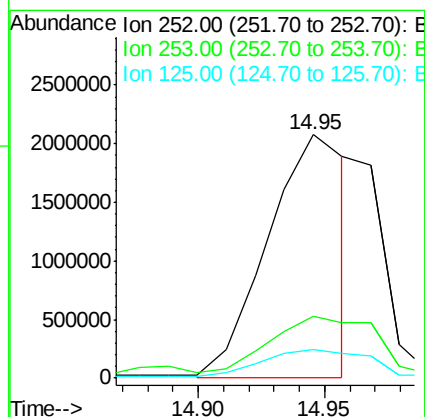
RT: 14.95 min Scan# 1125

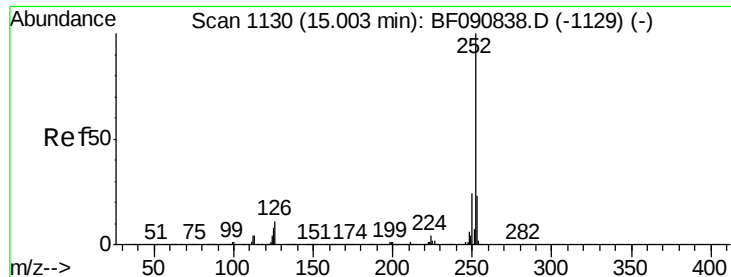
Delta R.T. 0.03 min

Lab File: BF090971.D

Acq: 2 Nov 2016 00:33

Tgt Ion:	252	Resp:	4597428
Ion Ratio	Lower	Upper	
252	100		
253	25.2	17.5	26.3
125	11.7	17.1	25.7#





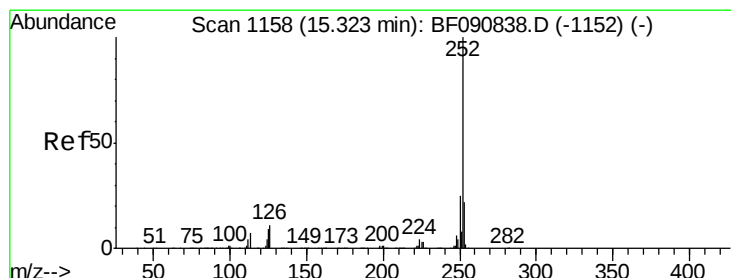
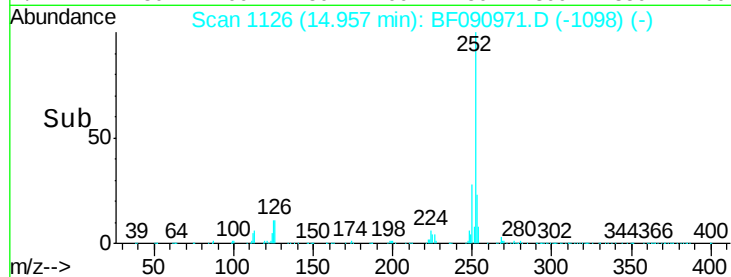
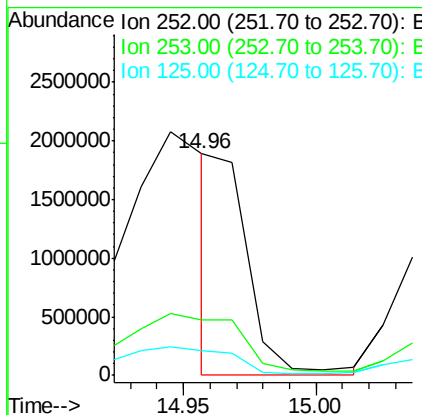
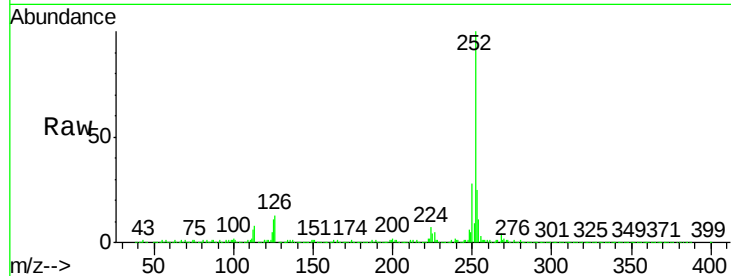
#88
Benzo(k)fluoranthene
Concen: 89.35 ng m
RT: 14.96 min Scan# 1126
Delta R.T. 0.02 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampled :
SB-6(0-2)

Tot Ion:252 Resp: 1559054
Ion Ratio Lower Upper
252 100
253 25.1 17.0 25.4
125 11.3 16.0 24.0#

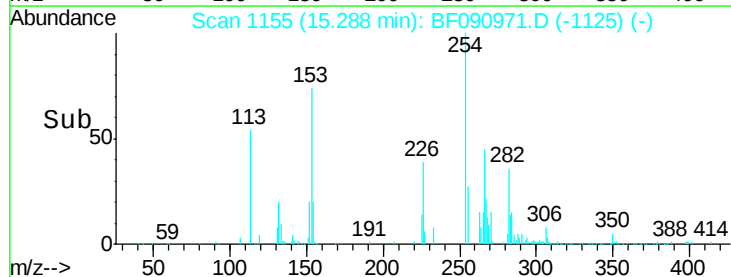
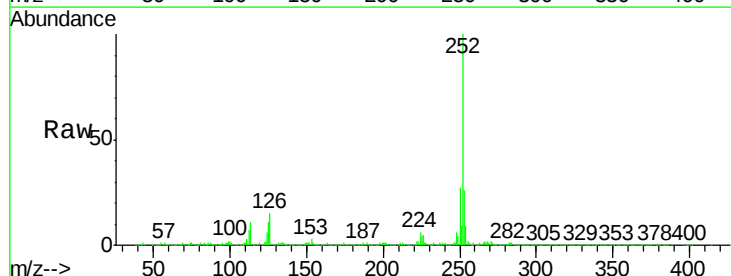
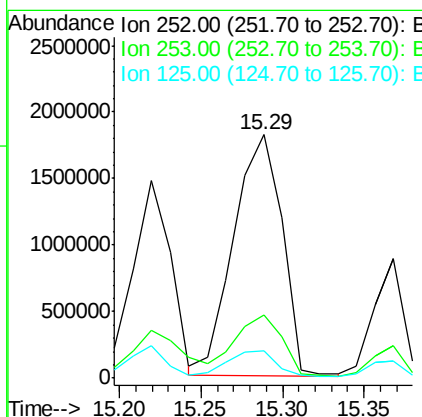
Manual Integrations
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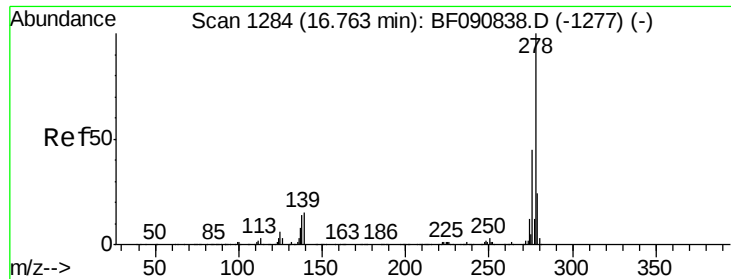
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#89
Benzo(a)pyrene
Concen: 196.79 ng
RT: 15.29 min Scan# 1155
Delta R.T. 0.05 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion:252 Resp: 3733253
Ion Ratio Lower Upper
252 100
253 26.0 17.2 25.8#
125 11.3 18.0 27.0#





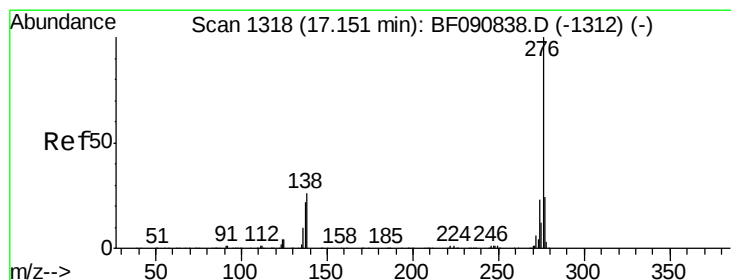
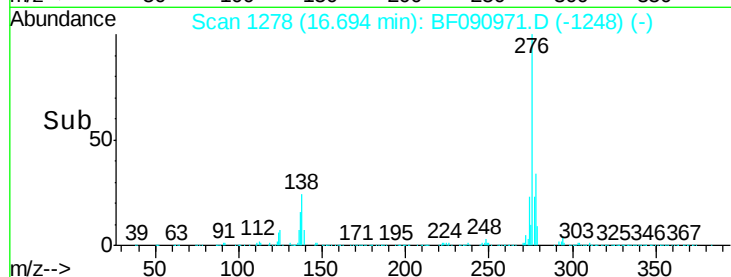
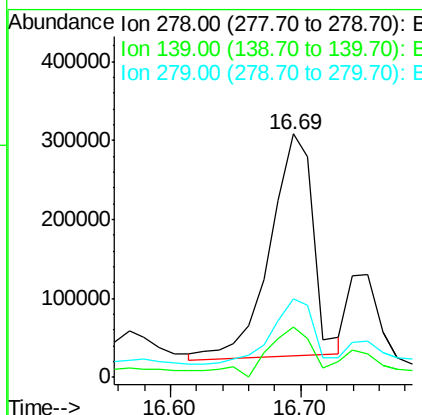
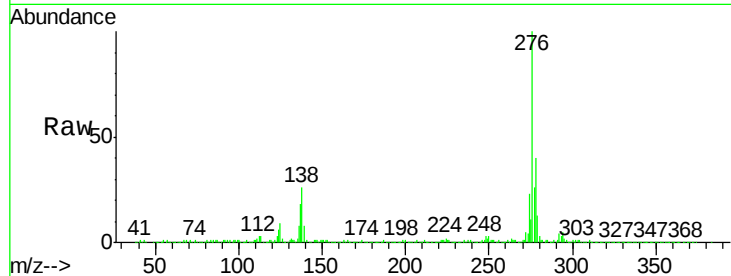
#90
Dibenzo(a,h)anthracene
Concen: 40.54 ng
RT: 16.69 min Scan# 1278
Delta R.T. 0.05 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.4	26.3	39.5#
279	32.4	18.2	27.4#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 126.82 ng
RT: 17.11 min Scan# 1314
Delta R.T. 0.07 min
Lab File: BF090971.D
Acq: 2 Nov 2016 00:33

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.8	26.6
138	27.0	34.6	51.8#

