

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
 Data File : BF091030.D
 Acq On : 4 Nov 2016 19:45
 Operator : UM/SJ
 Sample : H5526-07
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-101-1.0-1.5

Manual Integrations
 APPROVED

sohil
 11/7/2016 4:39:58 PM

Quant Time: Nov 07 04:06:17 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 04 11:03:12 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	224453	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	932812	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	488328	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	729111	20.00	ng	-0.01
75) Chrysene-d12	13.86	240	514927	20.00	ng	0.00
86) Perylene-d12	15.24	264	416194	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	1413523	104.01	ng	0.01
7) Phenol-d6	6.35	99	1673979	90.75	ng	0.00
23) Nitrobenzene-d5	7.28	82	1252566	73.25	ng	0.00
41) 2,4,6-Tribromophenol	10.53	330	438680	99.37	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	1799066	63.43	ng	0.00
78) Terphenyl-d14	12.81	244	1334095	64.65	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.47	163	576171	17.99	ng	98
70) Phenanthrene	11.24	178	1221433	31.51	ng	99
71) Anthracene	11.30	178	235303	5.71	ng	99
72) Carbazole	11.46	167	152802	4.11	ng	97
74) Fluoranthene	12.43	202	1884537	46.88	ng	98
77) Pyrene	12.66	202	1536678	45.57	ng	99
80) Benzo(a)anthracene	13.85	228	716637m	24.51	ng	
82) Chrysene	13.88	228	705347m	24.47	ng	
85) Indeno(1,2,3-cd)pyrene	16.56	276	397435	16.62	ng	93
87) Benzo(b)fluoranthene	14.87	252	927681m	32.86	ng	
88) Benzo(k)fluoranthene	14.88	252	192448m	7.77	ng	
89) Benzo(a)pyrene	15.19	252	535747	21.80	ng	# 94
90) Dibenzo(a,h)anthracene	16.56	278	90353m	4.25	ng	
91) Benzo(g,h,i)perylene	16.95	276	364763	18.99	ng	99

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

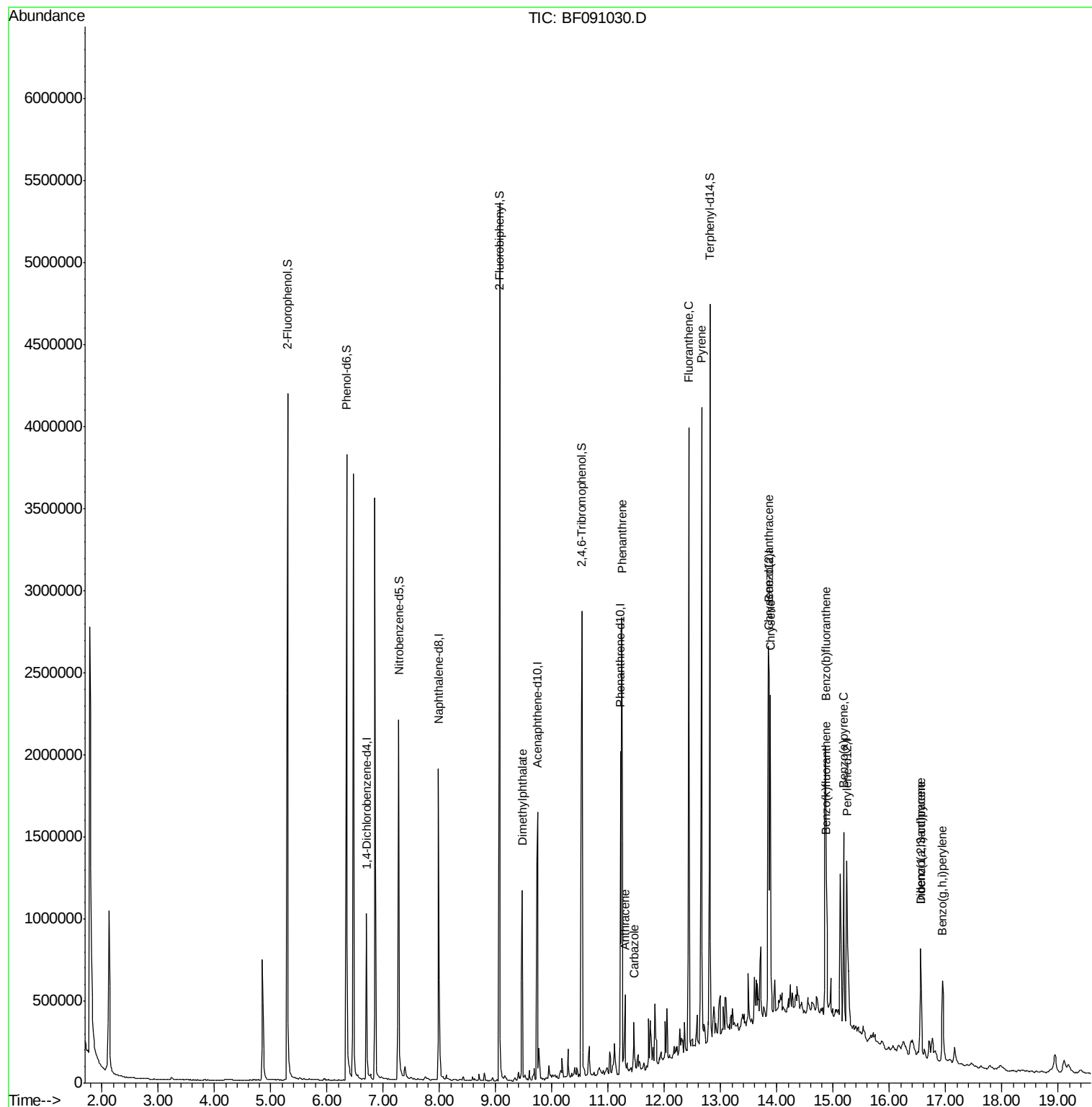
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091030.D
Acq On : 4 Nov 2016 19:45
Operator : UM/SJ
Sample : H5526-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

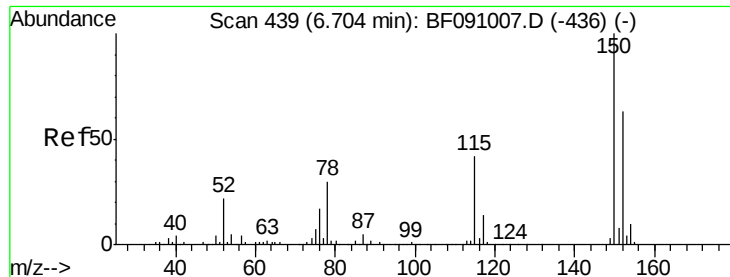
Instrument :
BNA_F
ClientSampleId :
SB-101-1.0-1.5

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM

Quant Time: Nov 07 04:06:17 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 04 11:03:12 2016
Response via : Initial Calibration





#1

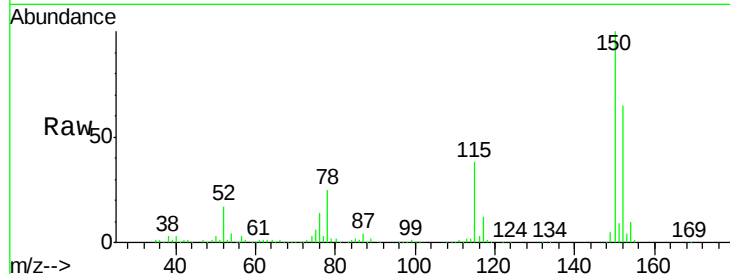
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.70 min Scan# 439
Delta R.T. -0.00 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Instrument :
BNA_F
ClientSampleId :
SB-101-1.0-1.5

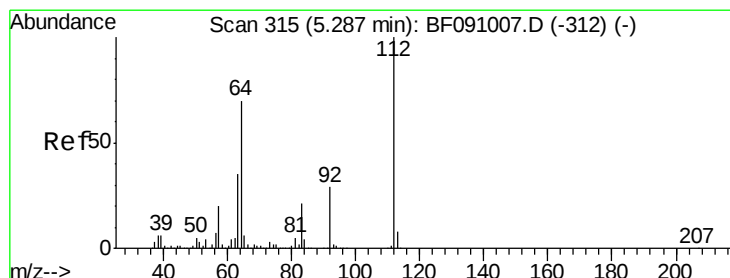
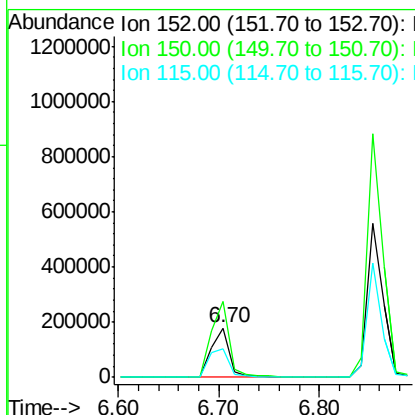
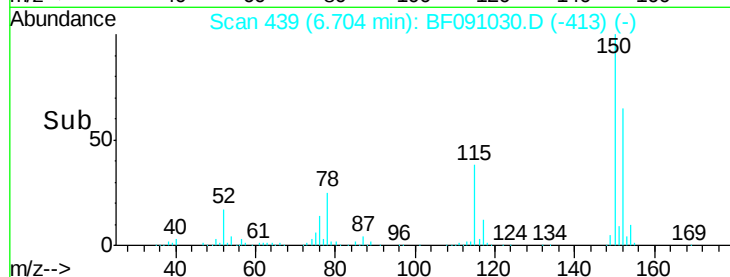
Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.9	126.8	190.2
115	58.5	53.3	79.9

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM



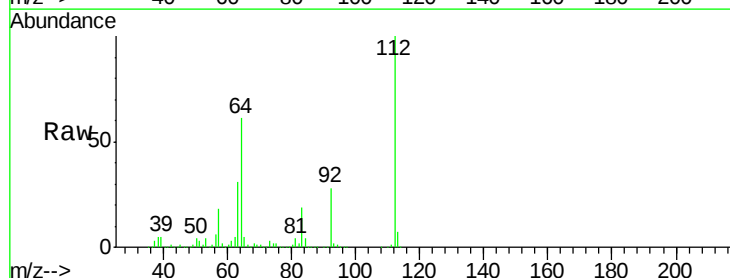
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



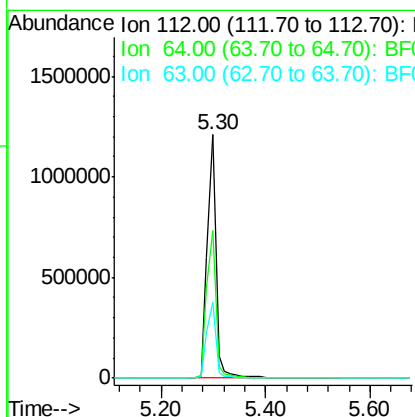
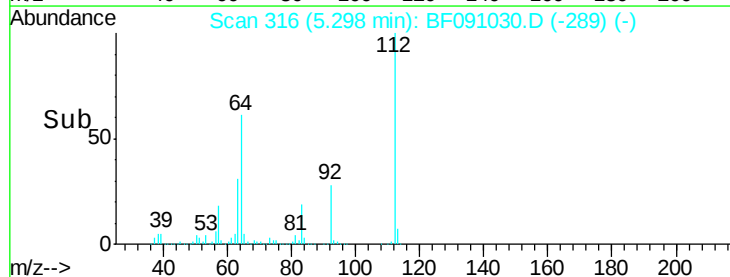
#5

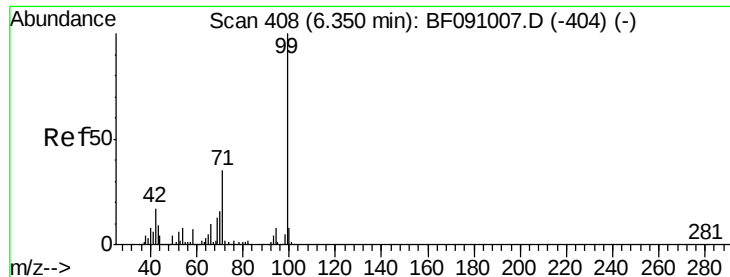
2-Fluorophenol
Concen: 104.01 ng
RT: 5.30 min Scan# 316
Delta R.T. 0.01 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.9	55.8	83.6
63	31.0	28.0	42.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 90.75 ng

RT: 6.35 min Scan# 408

Delta R.T. -0.00 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Instrument :

BNA_F

ClientSampleId :

SB-101-1.0-1.5

Tgt Ion: 99 Resp: 1673979

Ion Ratio Lower Upper

99 100

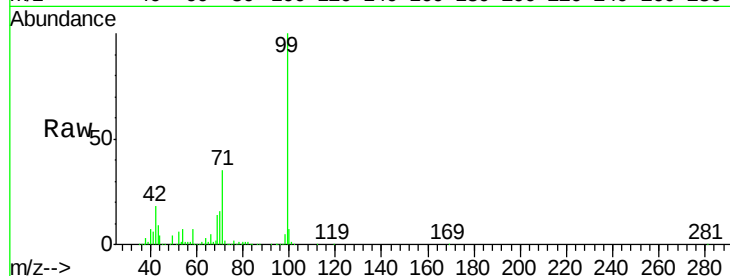
42 17.8 13.9 20.9

71 35.0 27.8 41.8

Manual Integrations
APPROVED

sohil

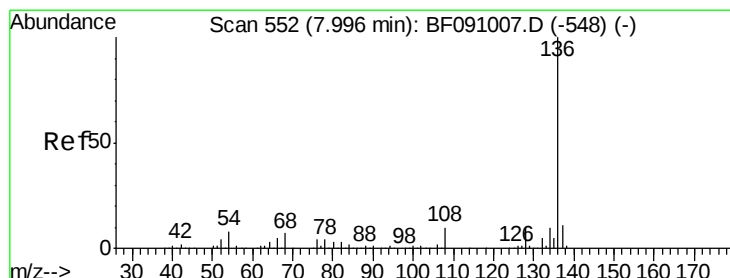
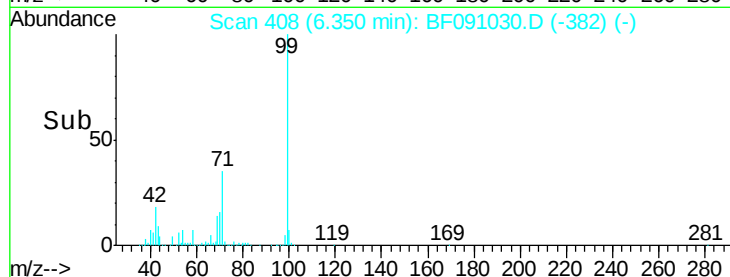
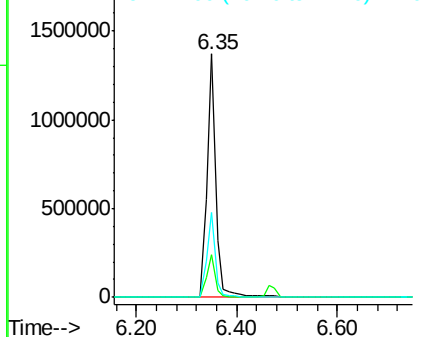
11/7/2016 4:39:58 PM



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: 7.98 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Tgt Ion: 136 Resp: 932812

Ion Ratio Lower Upper

136 100

137 11.6 8.9 13.3

54 10.4 6.2 9.2#

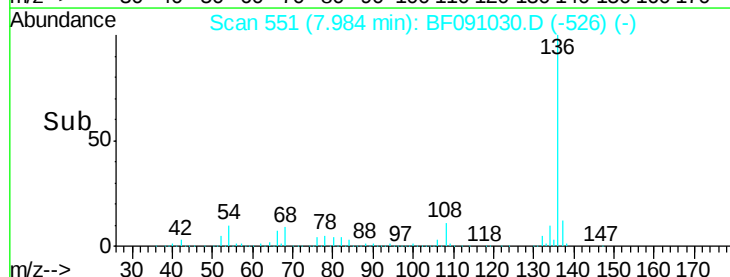
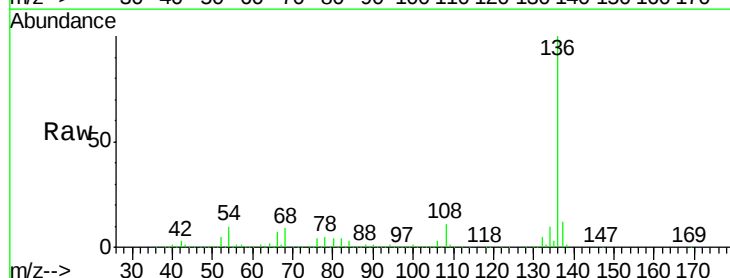
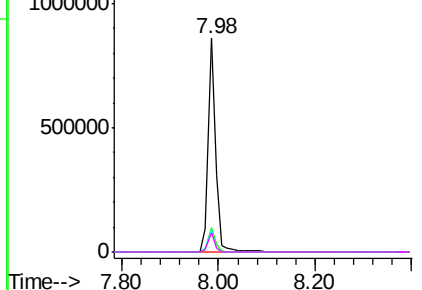
68 9.0 5.5 8.3#

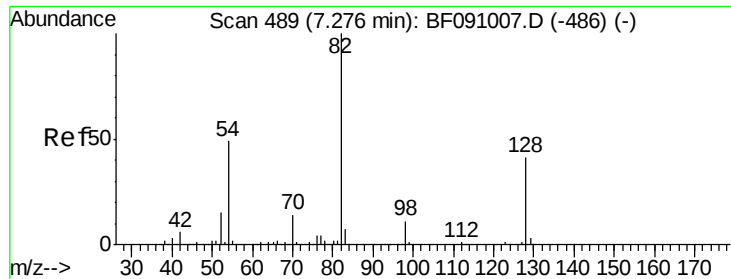
Abundance Ion 136.00 (135.70 to 136.70): E

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





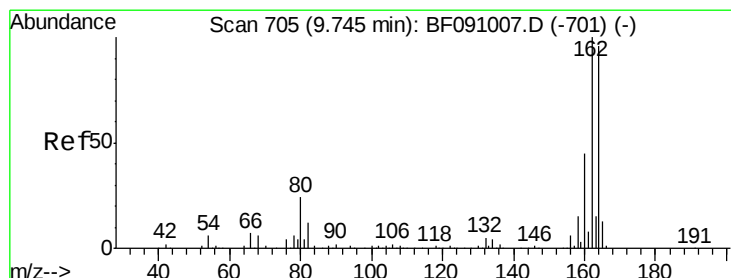
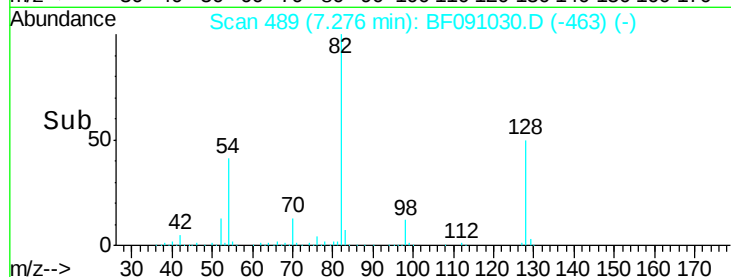
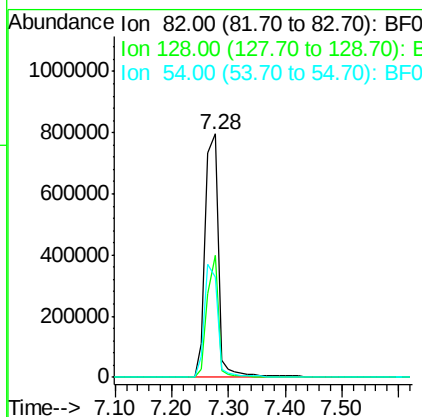
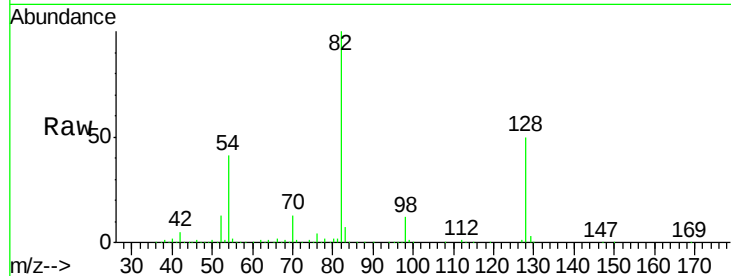
#23
 Nitrobenzene-d5
 Concen: 73.25 ng
 RT: 7.28 min Scan# 489
 Delta R.T. -0.00 min
 Lab File: BF091030.D
 Acq: 4 Nov 2016 19:45

Instrument :
 BNA_F
 ClientSampled :
 SB-101-1.0-1.5

Tgt Ion: 82 Resp: 1252566
 Ion Ratio Lower Upper
 82 100
 128 49.9 32.4 48.6#
 54 41.3 39.2 58.8

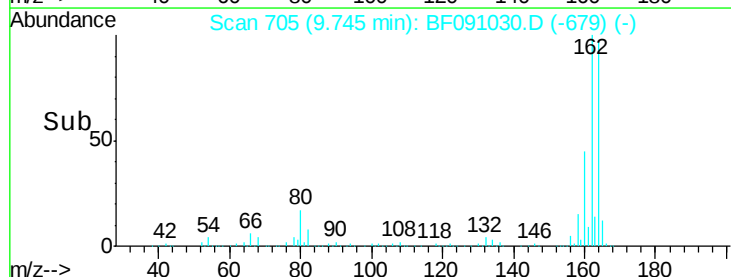
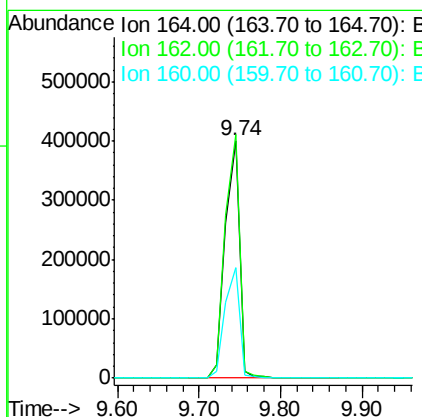
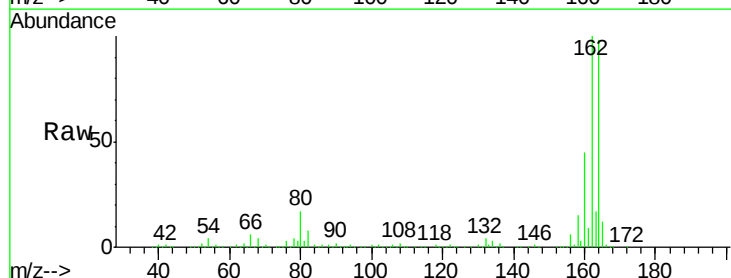
Manual Integrations
 APPROVED

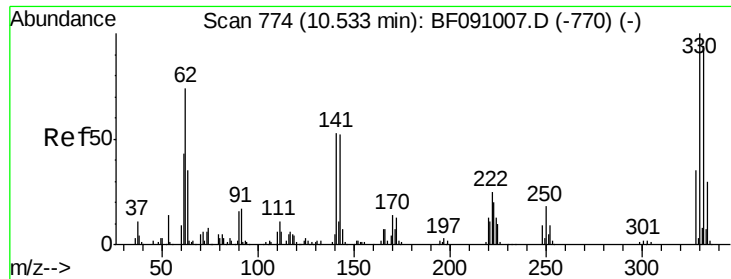
sohil
 11/7/2016 4:39:58 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.74 min Scan# 705
 Delta R.T. -0.00 min
 Lab File: BF091030.D
 Acq: 4 Nov 2016 19:45

Tgt Ion: 164 Resp: 488328
 Ion Ratio Lower Upper
 164 100
 162 102.4 83.6 125.4
 160 46.5 37.9 56.9





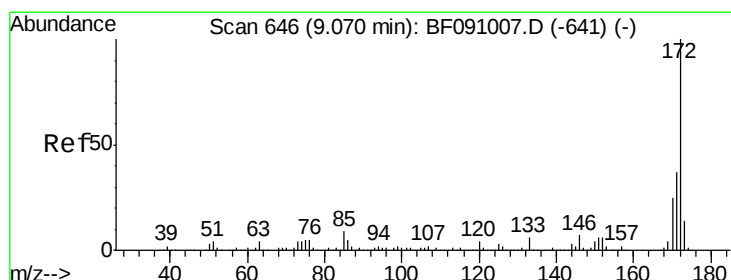
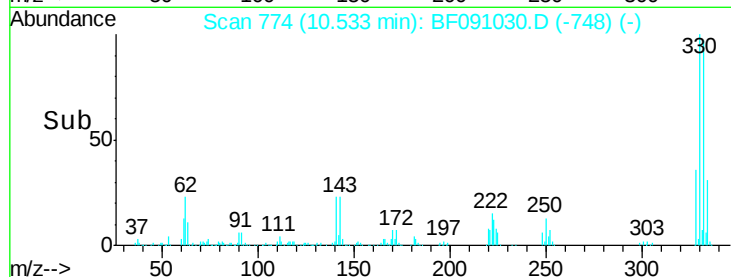
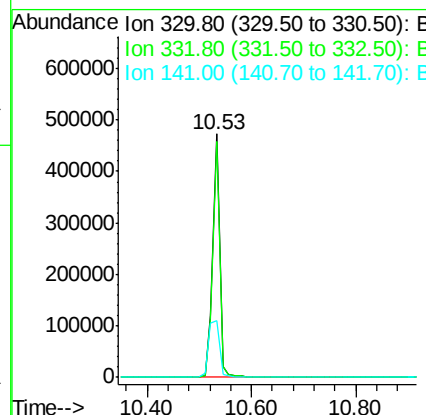
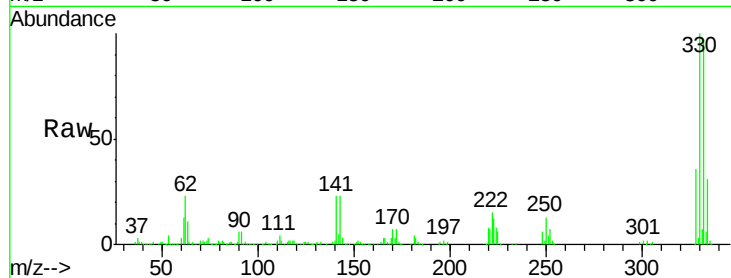
#41
 2,4,6-Tribromophenol
 Concen: 99.37 ng
 RT: 10.53 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: BF091030.D
 Acq: 4 Nov 2016 19:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-101-1.0-1.5

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	438680		
332	96.5	75.9	113.9	
141	36.7	36.1	54.1	

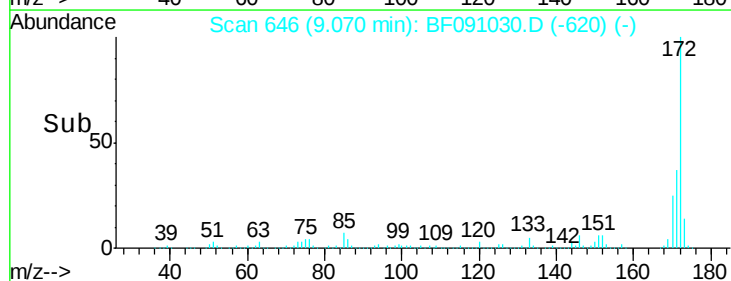
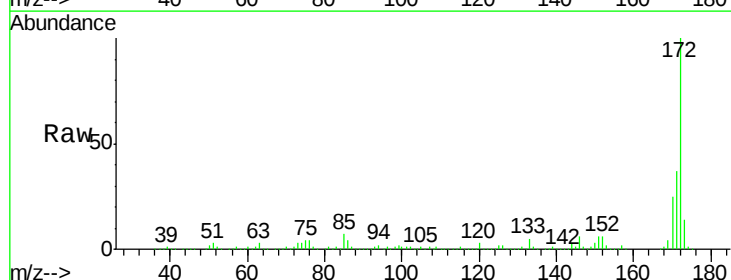
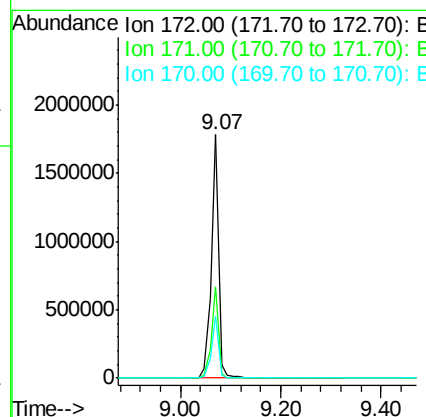
Manual Integrations
 APPROVED

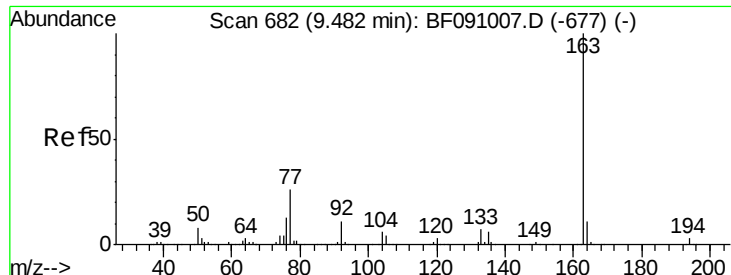
sohil
 11/7/2016 4:39:58 PM



#44
 2-Fluorobiphenyl
 Concen: 63.43 ng
 RT: 9.07 min Scan# 646
 Delta R.T. -0.00 min
 Lab File: BF091030.D
 Acq: 4 Nov 2016 19:45

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1799066		
171	37.3	29.8	44.6	
170	25.3	20.3	30.5	





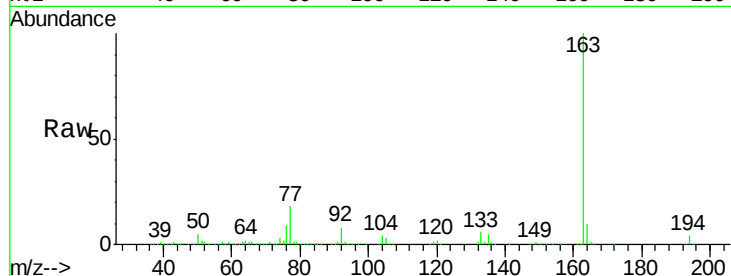
#49
Dimethylphthalate
Concen: 17.99 ng
RT: 9.47 min Scan# 681
Delta R.T. -0.01 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Instrument :
BNA_F
ClientSampleId :
SB-101-1.0-1.5

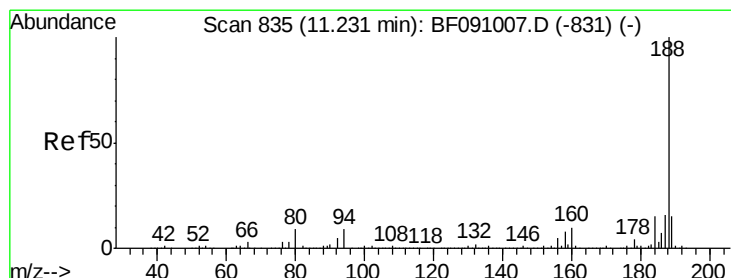
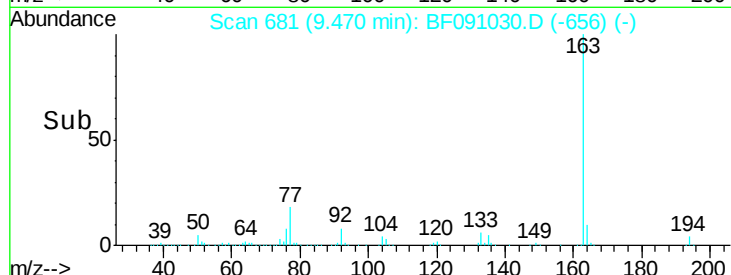
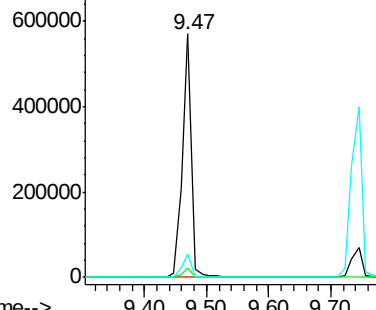
Tgt Ion	Ratio	Resp	Lower	Upper
163	100	576171		
194	3.6	2.6	4.0	
164	9.8	8.7	13.1	

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM

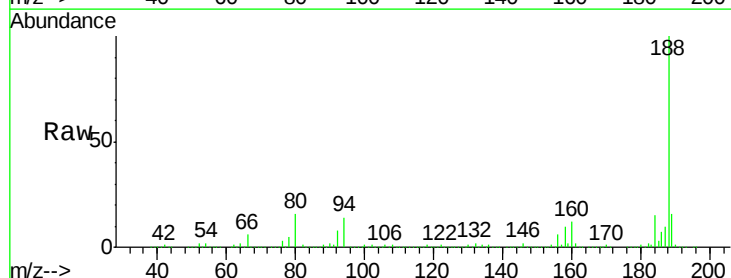


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

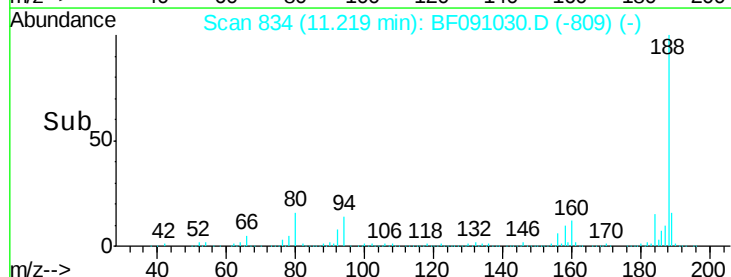
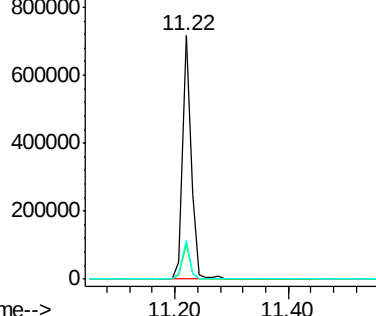


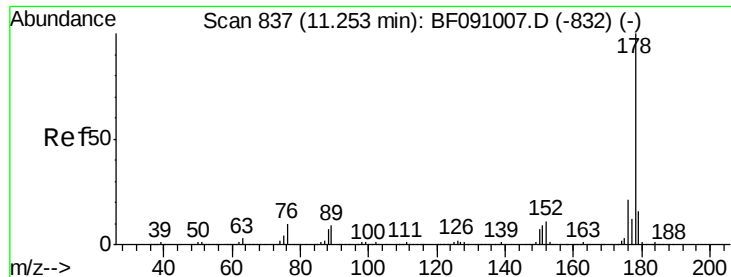
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 834
Delta R.T. -0.01 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	729111		
94	14.2	7.0	10.4#	
80	16.0	7.5	11.3#	



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





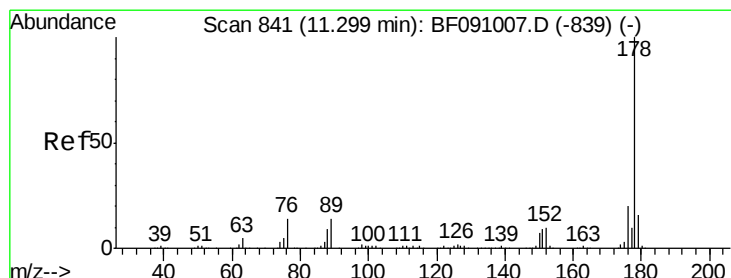
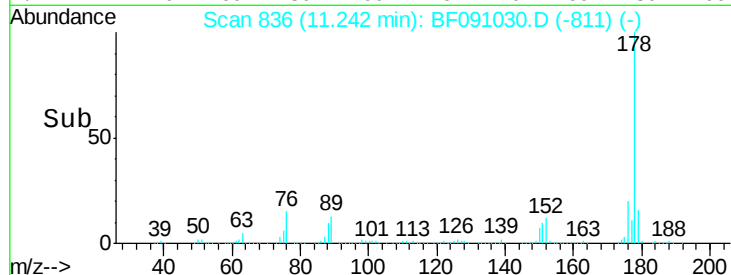
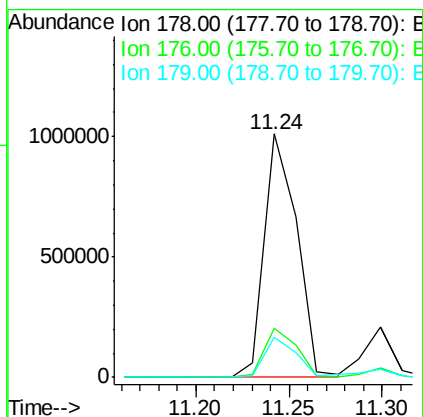
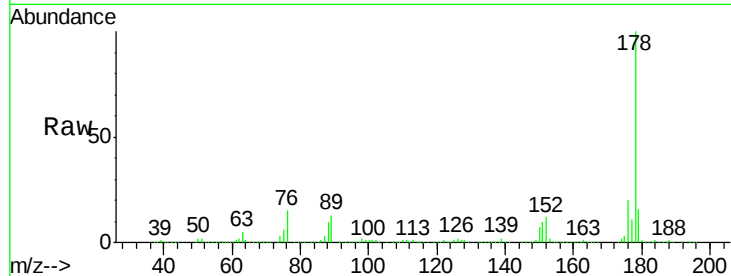
#70
Phenanthrene
Concen: 31.51 ng
RT: 11.24 min Scan# 836
Delta R.T. -0.01 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Instrument :
BNA_F
ClientSampled :
SB-101-1.0-1.5

Tgt Ion:178 Resp: 1221433
Ion Ratio Lower Upper
178 100
176 20.2 16.6 25.0
179 16.2 12.9 19.3

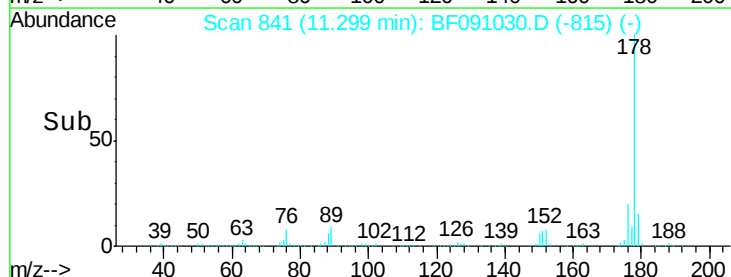
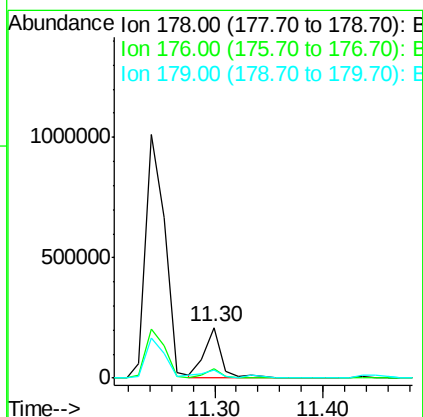
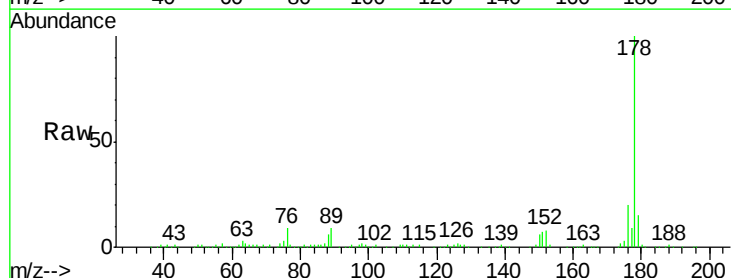
Manual Integrations
APPROVED

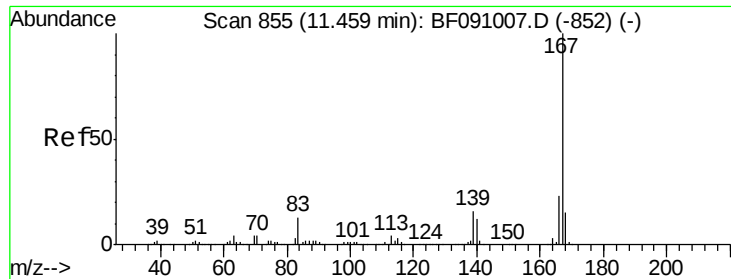
sohil
11/7/2016 4:39:58 PM



#71
Anthracene
Concen: 5.71 ng
RT: 11.30 min Scan# 841
Delta R.T. -0.00 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Tgt Ion:178 Resp: 235303
Ion Ratio Lower Upper
178 100
176 19.7 16.0 24.0
179 15.4 13.0 19.6





#72

Carbazole

Concen: 4.11 ng

RT: 11.46 min Scan# 855

Delta R.T. -0.00 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Instrument :

BNA_F

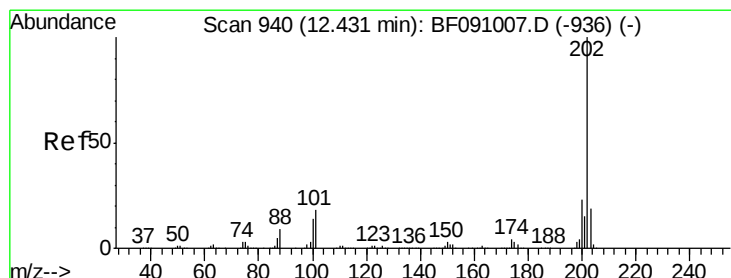
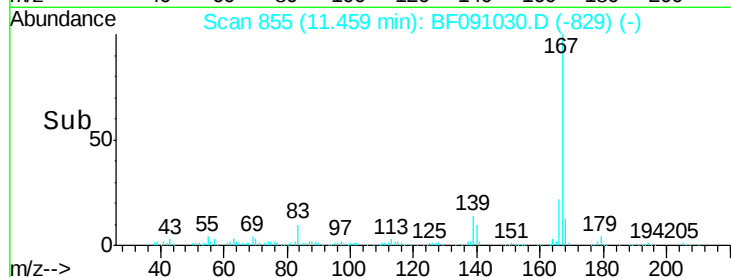
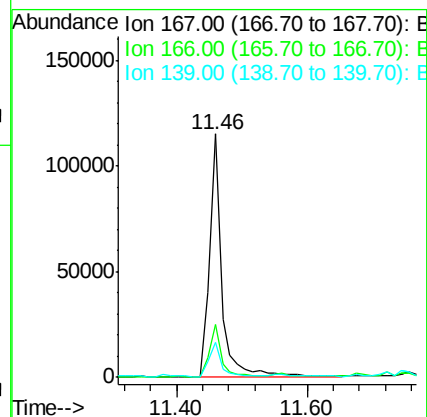
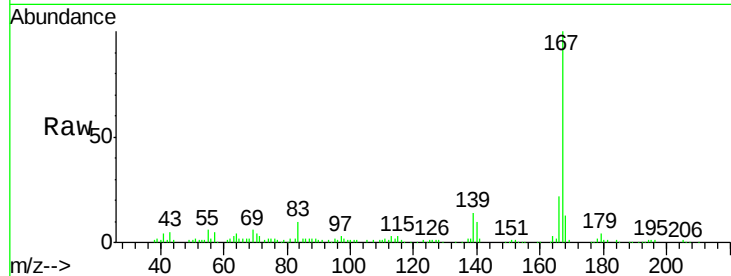
ClientSampleId :

SB-101-1.0-1.5

Tgt Ion:	167	Resp:	152802
Ion Ratio	Lower	Upper	
167	100		
166	21.6	18.0	27.0
139	14.2	12.6	18.8

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM



#74

Fluoranthene

Concen: 46.88 ng

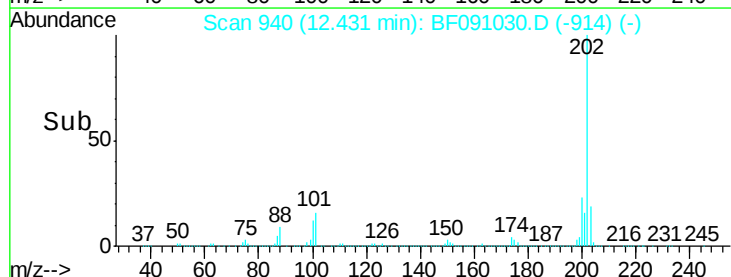
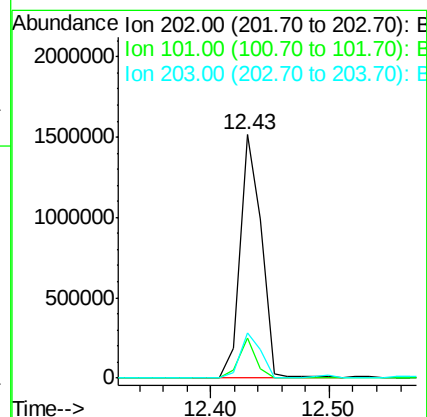
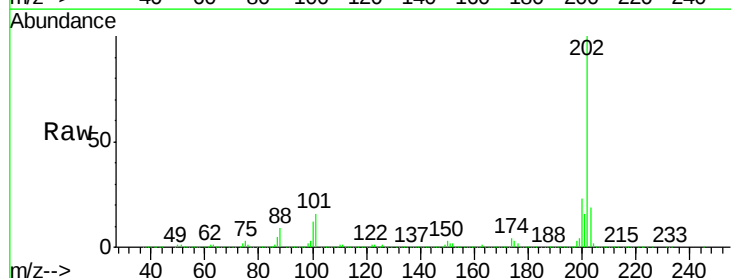
RT: 12.43 min Scan# 940

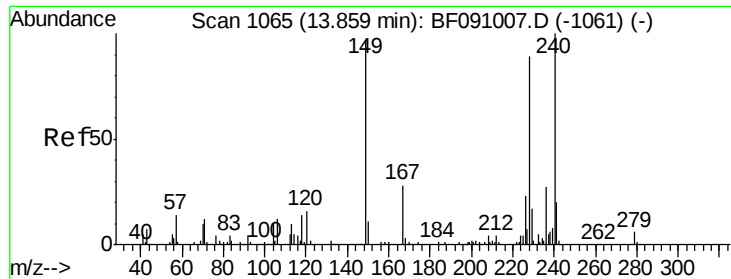
Delta R.T. -0.00 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Tgt Ion:	202	Resp:	1884537
Ion Ratio	Lower	Upper	
202	100		
101	16.4	0.0	37.6
203	18.8	0.0	38.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 1065

Delta R.T. -0.00 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Instrument :

BNA_F

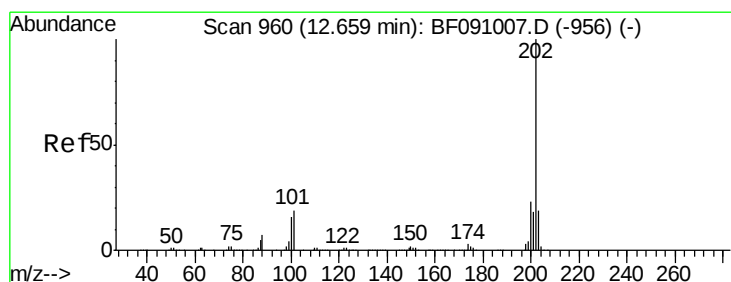
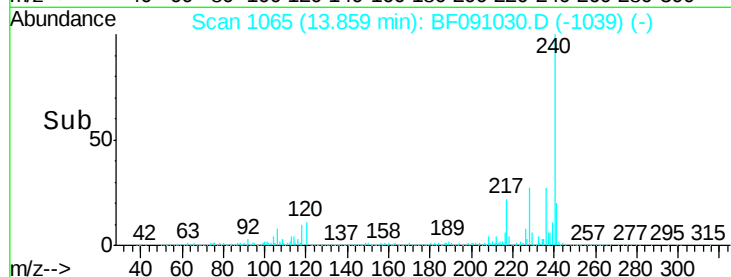
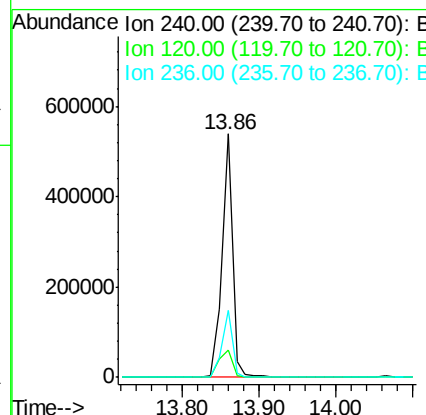
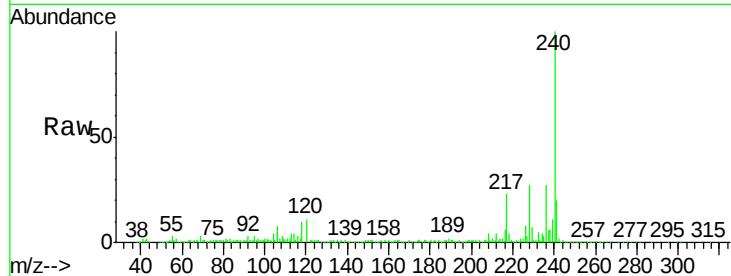
ClientSampleId :

SB-101-1.0-1.5

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.1	12.9	19.3#
236	27.4	21.9	32.9

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM



#77

Pyrene

Concen: 45.57 ng

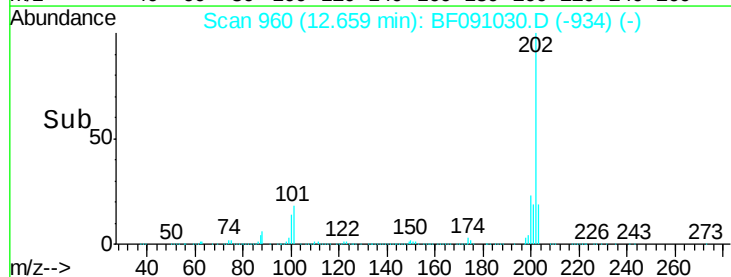
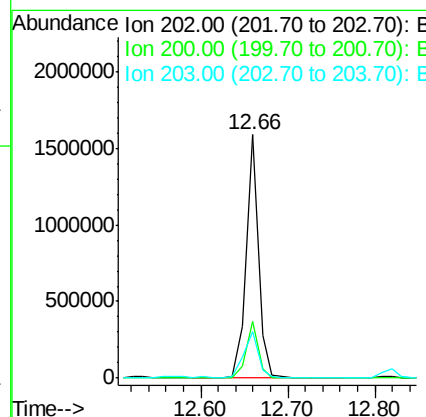
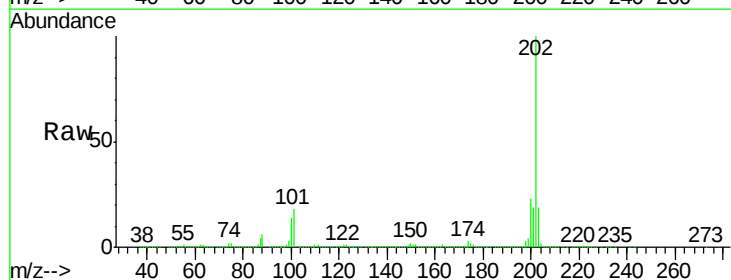
RT: 12.66 min Scan# 960

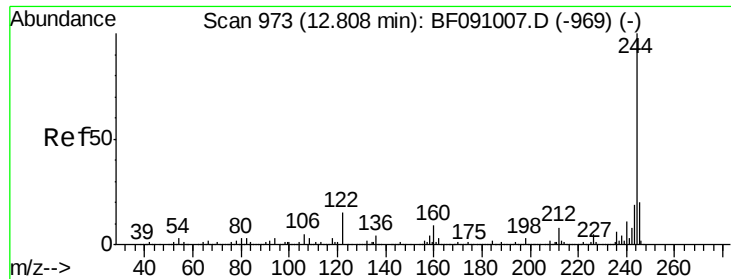
Delta R.T. -0.00 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.4	18.4	27.6
203	18.9	15.0	22.6





#78

Terphenyl-d14

Concen: 64.65 ng

RT: 12.81 min Scan# 973

Delta R.T. -0.00 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Instrument :

BNA_F

ClientSampleId :

SB-101-1.0-1.5

Tgt Ion:244 Resp: 1334095

Ion Ratio Lower Upper

244 100

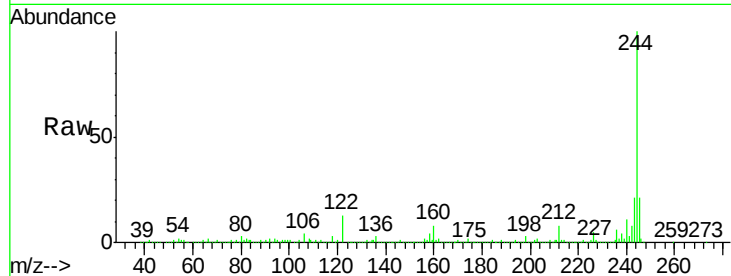
212 7.8 6.4 9.6

122 13.0 12.3 18.5

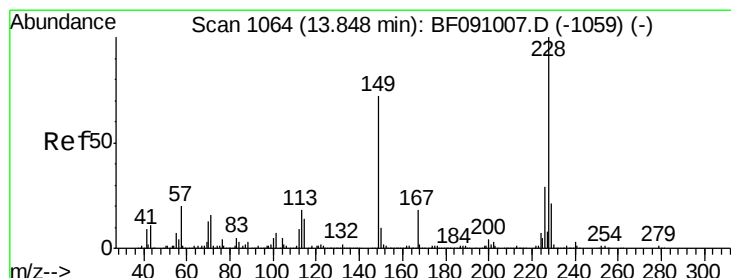
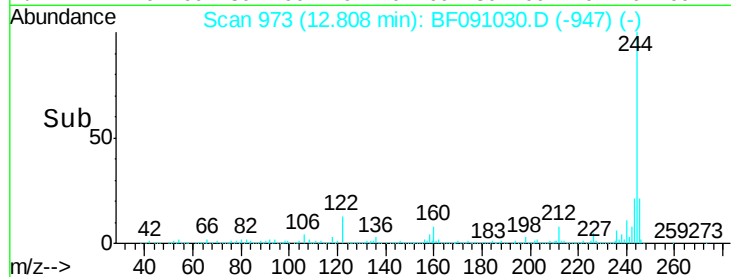
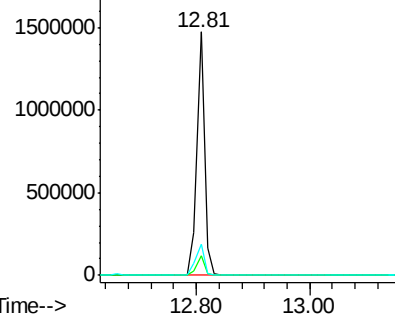
Manual Integrations
APPROVED

sohil

11/7/2016 4:39:58 PM



Abundance Ion 244.00 (243.70 to 244.70): E
2000000
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 24.51 ng m

RT: 13.85 min Scan# 1064

Delta R.T. -0.00 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

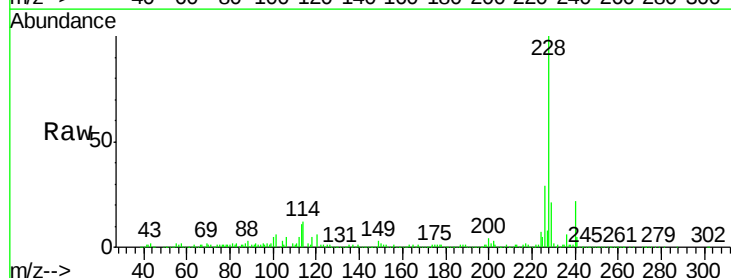
Tgt Ion:228 Resp: 716637

Ion Ratio Lower Upper

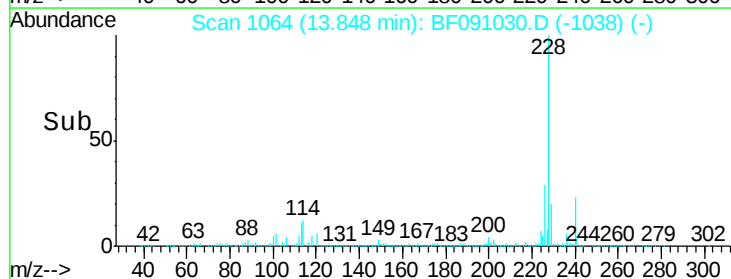
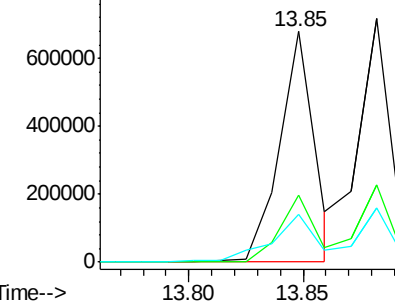
228 100

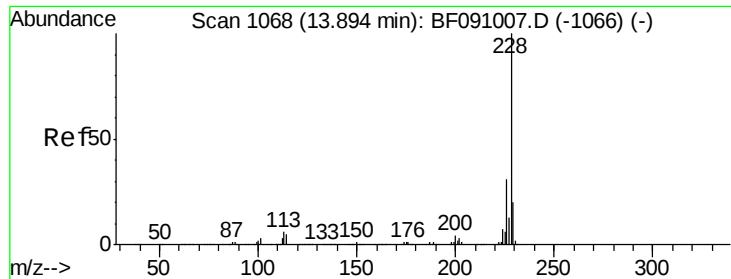
226 28.9 23.0 34.6

229 20.8 16.6 24.8



Abundance Ion 228.00 (227.70 to 228.70): E
1000000
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.47 ng m

RT: 13.88 min Scan# 1067

Delta R.T. -0.01 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Instrument :

BNA_F

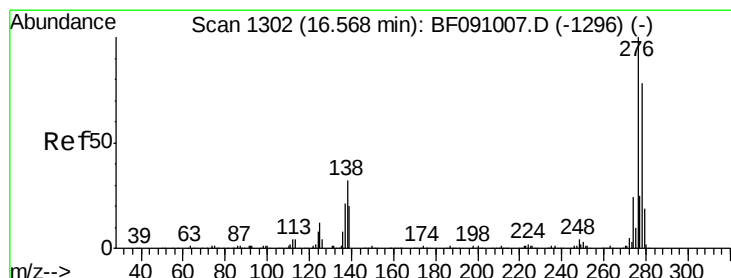
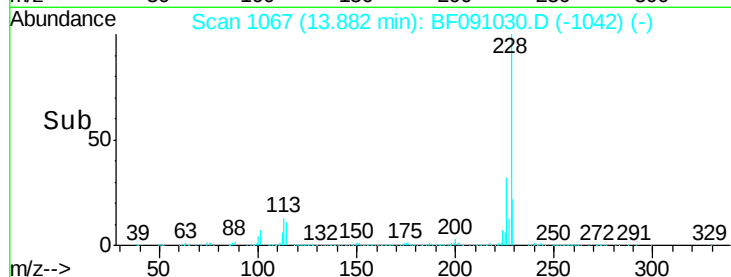
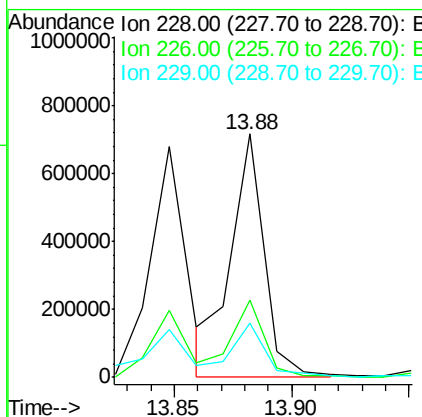
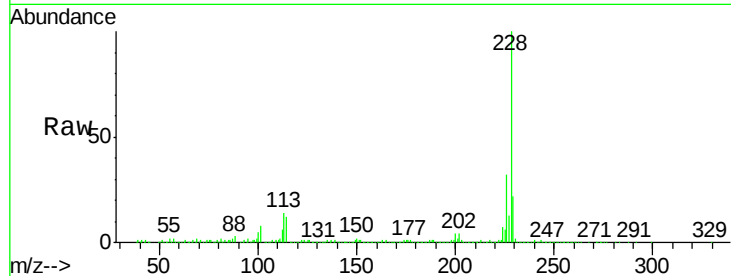
ClientSampleId :

SB-101-1.0-1.5

Tgt Ion:	228	Resp:	705347
Ion Ratio	Lower	Upper	
228	100		
226	31.8	24.9	37.3
229	22.3	15.9	23.9

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 16.62 ng

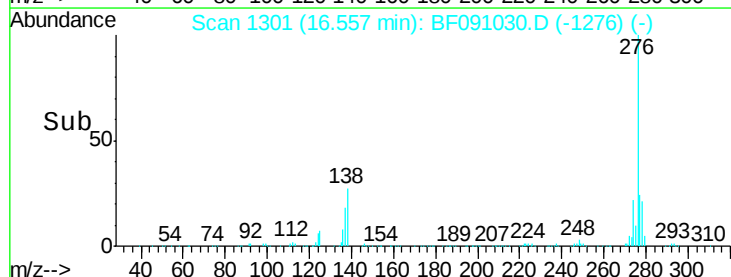
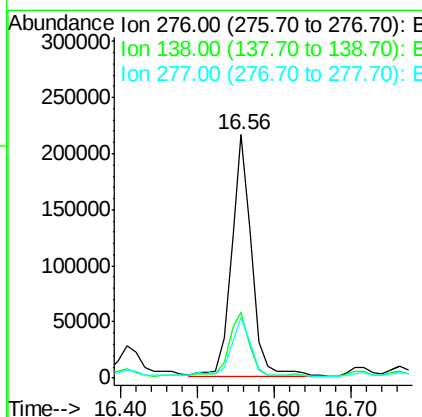
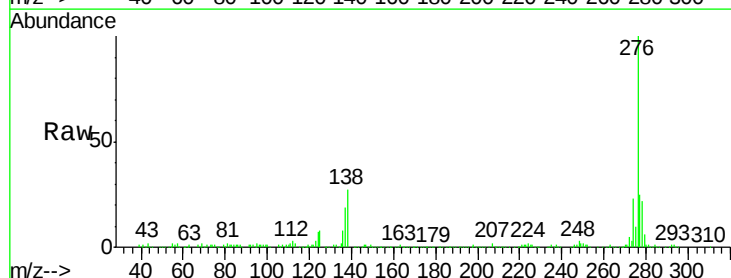
RT: 16.56 min Scan# 1301

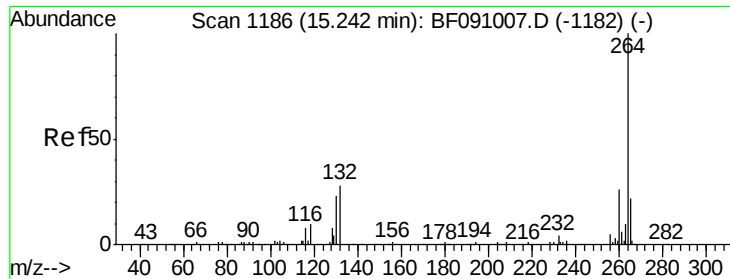
Delta R.T. -0.01 min

Lab File: BF091030.D

Acq: 4 Nov 2016 19:45

Tgt Ion:	276	Resp:	397435
Ion Ratio	Lower	Upper	
276	100		
138	26.6	26.0	39.0
277	26.0	20.1	30.1





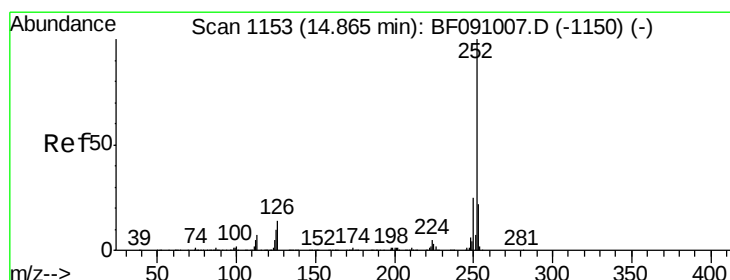
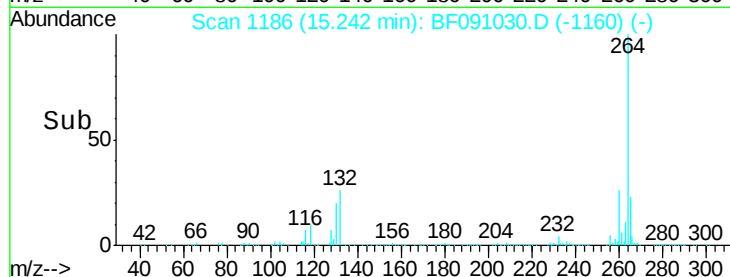
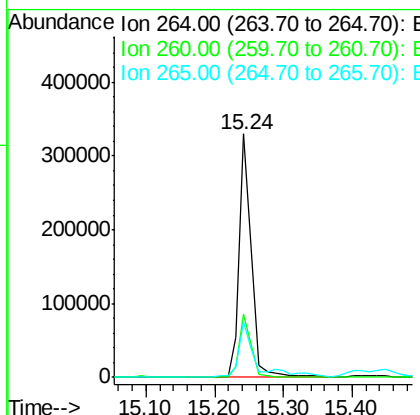
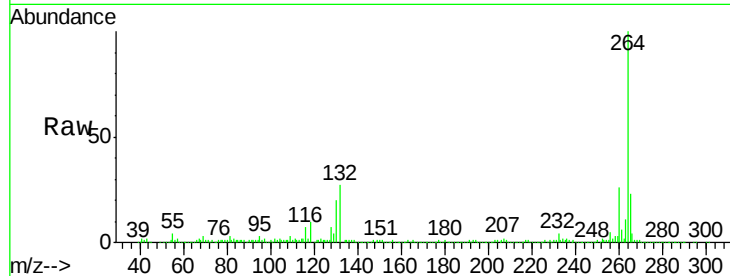
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.24 min Scan# 1186
Delta R.T. -0.00 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Instrument :
BNA_F
ClientSampleId :
SB-101-1.0-1.5

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	416194		
260	25.9	20.6	30.8	
265	22.9	17.8	26.8	

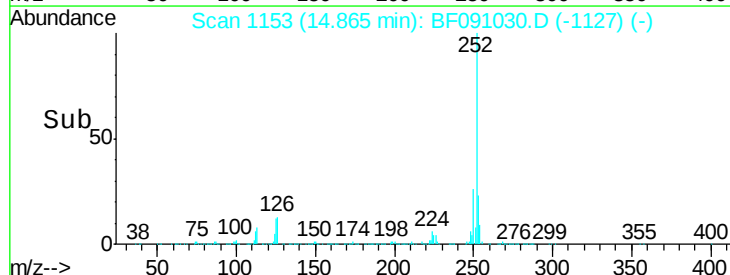
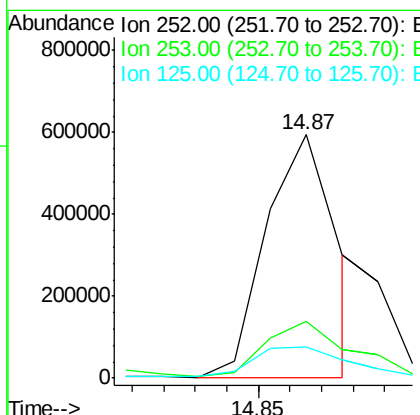
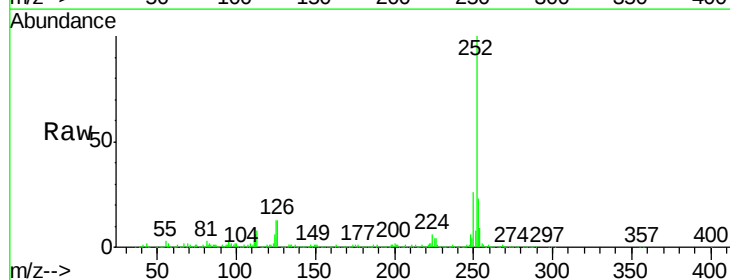
Manual Integrations
APPROVED

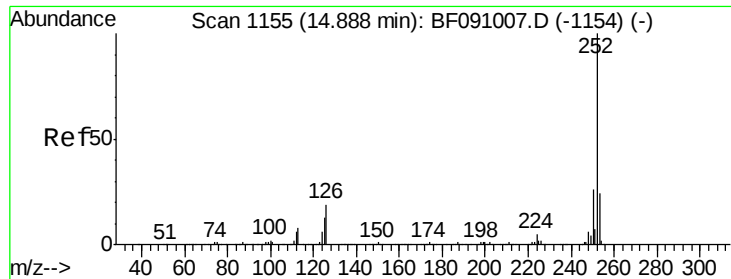
sohil
11/7/2016 4:39:58 PM



#87
Benzo(b)fluoranthene
Concen: 32.86 ng m
RT: 14.87 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	927681		
253	23.4	18.0	27.0	
125	13.0	8.3	12.5#	





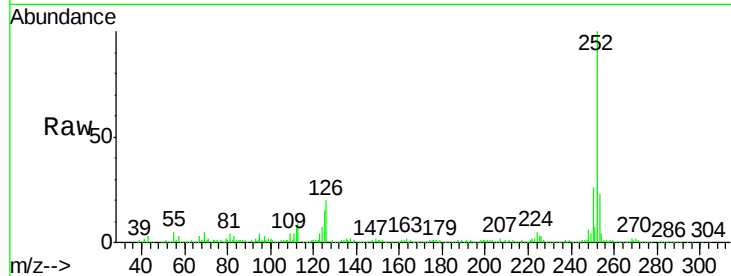
#88
Benzo(k)fluoranthene
Concen: 7.77 ng m
RT: 14.88 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Instrument :
BNA_F
ClientSampleId :
SB-101-1.0-1.5

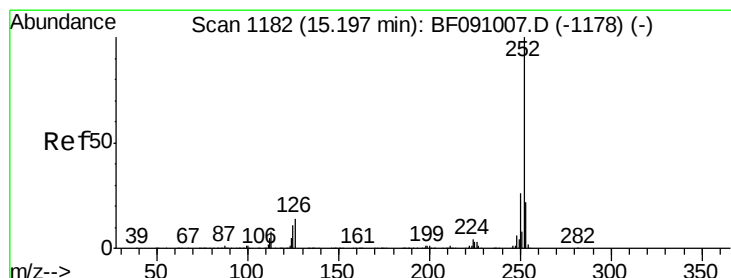
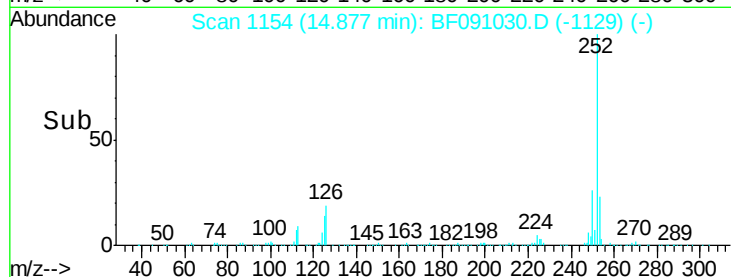
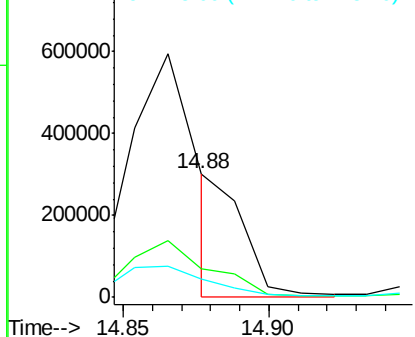
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.6	28.0
125	15.1	11.2	16.8

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM



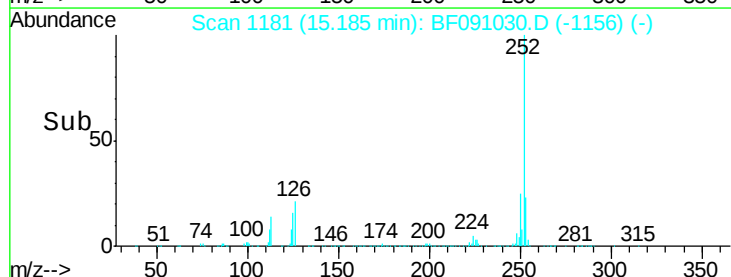
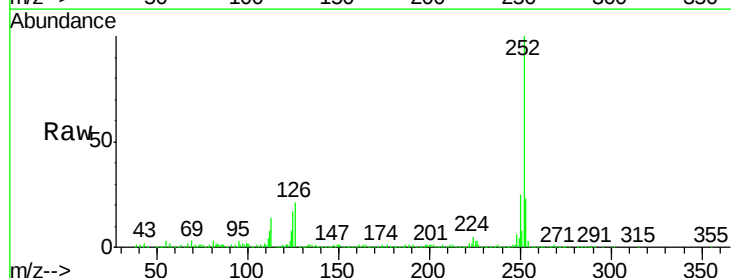
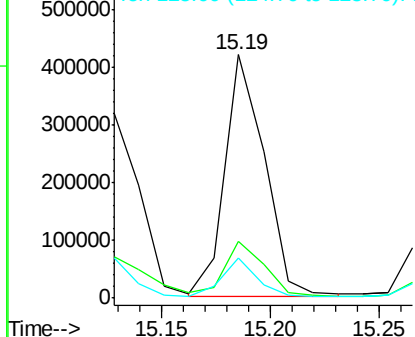
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

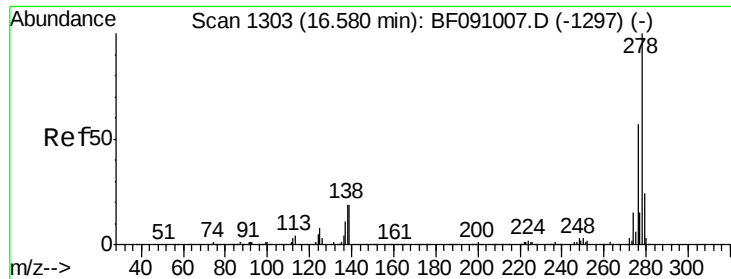


#89
Benzo(a)pyrene
Concen: 21.80 ng
RT: 15.19 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	16.6	8.6	13.0#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





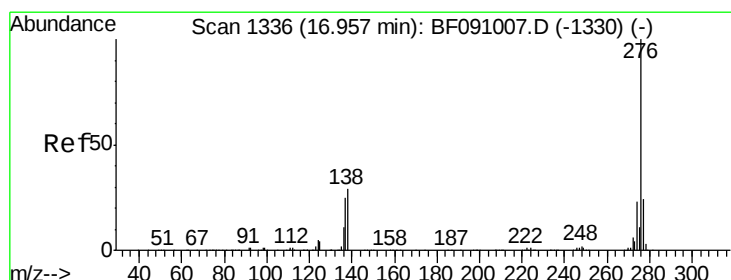
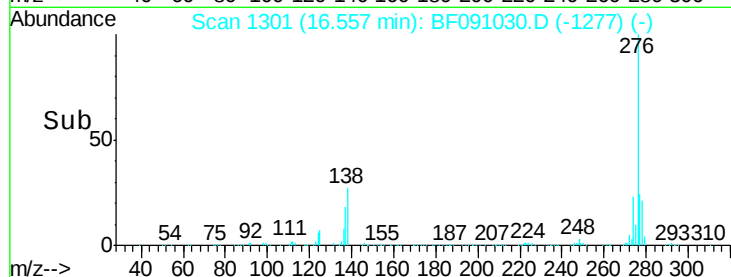
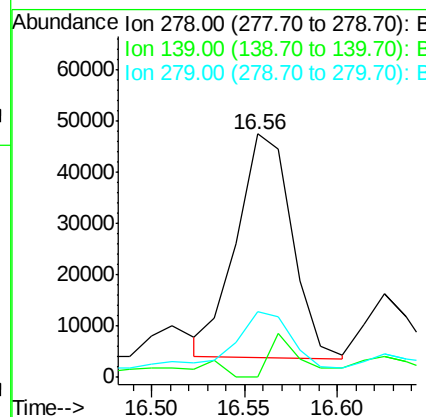
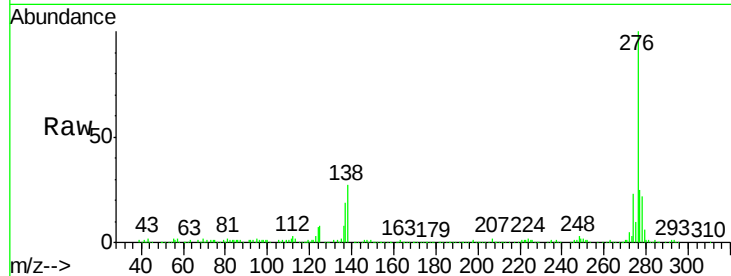
#90
Dibenzo(a,h)anthracene
Concen: 4.25 ng m
RT: 16.56 min Scan# 1301
Delta R.T. -0.02 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Instrument :
BNA_F
ClientSampleId :
SB-101-1.0-1.5

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.3	22.9#
279	26.7	19.3	28.9

Manual Integrations
APPROVED

sohil
11/7/2016 4:39:58 PM



#91
Benzo(g,h,i)perylene
Concen: 18.99 ng
RT: 16.95 min Scan# 1335
Delta R.T. -0.01 min
Lab File: BF091030.D
Acq: 4 Nov 2016 19:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.2	28.8
138	29.7	23.3	34.9

