

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF032218\
 Data File : BF103842.D
 Acq On : 22 Mar 2018 10:36
 Operator : JU/SJ
 Sample : J1946-02 2X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(22-23)

Manual Integrations
 APPROVED

Sohil
 3/23/2018 2:46:16 PM

Quant Time: Mar 23 09:10:08 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 22 11:56:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	149543	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	611270	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	285806	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	518024	20.00	ng	0.00
75) Chrysene-d12	14.17	240	298237	20.00	ng	0.00
86) Perylene-d12	15.70	264	328398	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	558402	56.79	ng	0.00
7) Phenol-d6	6.59	99	686051	57.03	ng	-0.01
23) Nitrobenzene-d5	7.53	82	420862	48.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	172881	70.35	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	688524	38.43	ng	0.00
78) Terphenyl-d14	13.09	244	591086	46.00	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	306004	9.910	ng	99
37) 2-Methylnaphthalene	8.96	142	75372	3.849	ng	98
48) Acenaphthylene	9.87	152	265942	9.060	ng	99
49) Dimethylphthalate	9.72	163	71048	3.258	ng	99
54) Dibenzofuran	10.22	168	101944	4.095	ng	98
57) Fluorene	10.56	166	152885	7.915	ng	99
70) Phenanthrene	11.53	178	1565863	55.258	ng	99
71) Anthracene	11.59	178	664468	23.087	ng	99
72) Carbazole	11.73	167	140877	5.036	ng	99
74) Fluoranthene	12.74	202	2683431	91.918	ng	99
77) Pyrene	12.97	202	2309161	105.430	ng	98
80) Benzo(a)anthracene	14.16	228	1221537m	64.706	ng	
82) Chrysene	14.19	228	1113331m	61.866	ng	
85) Indeno(1,2,3-cd)pyrene	17.29	276	891525m	56.728	ng	
87) Benzo(b)fluoranthene	15.25	252	1420423m	68.463	ng	
88) Benzo(k)fluoranthene	15.27	252	457018m	22.915	ng	
89) Benzo(a)pyrene	15.64	252	1034104	54.953	ng	96
90) Dibenzo(a,h)anthracene	17.30	278	192267	11.799	ng	93
91) Benzo(g,h,i)perylene	17.78	276	904671	57.070	ng	96

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

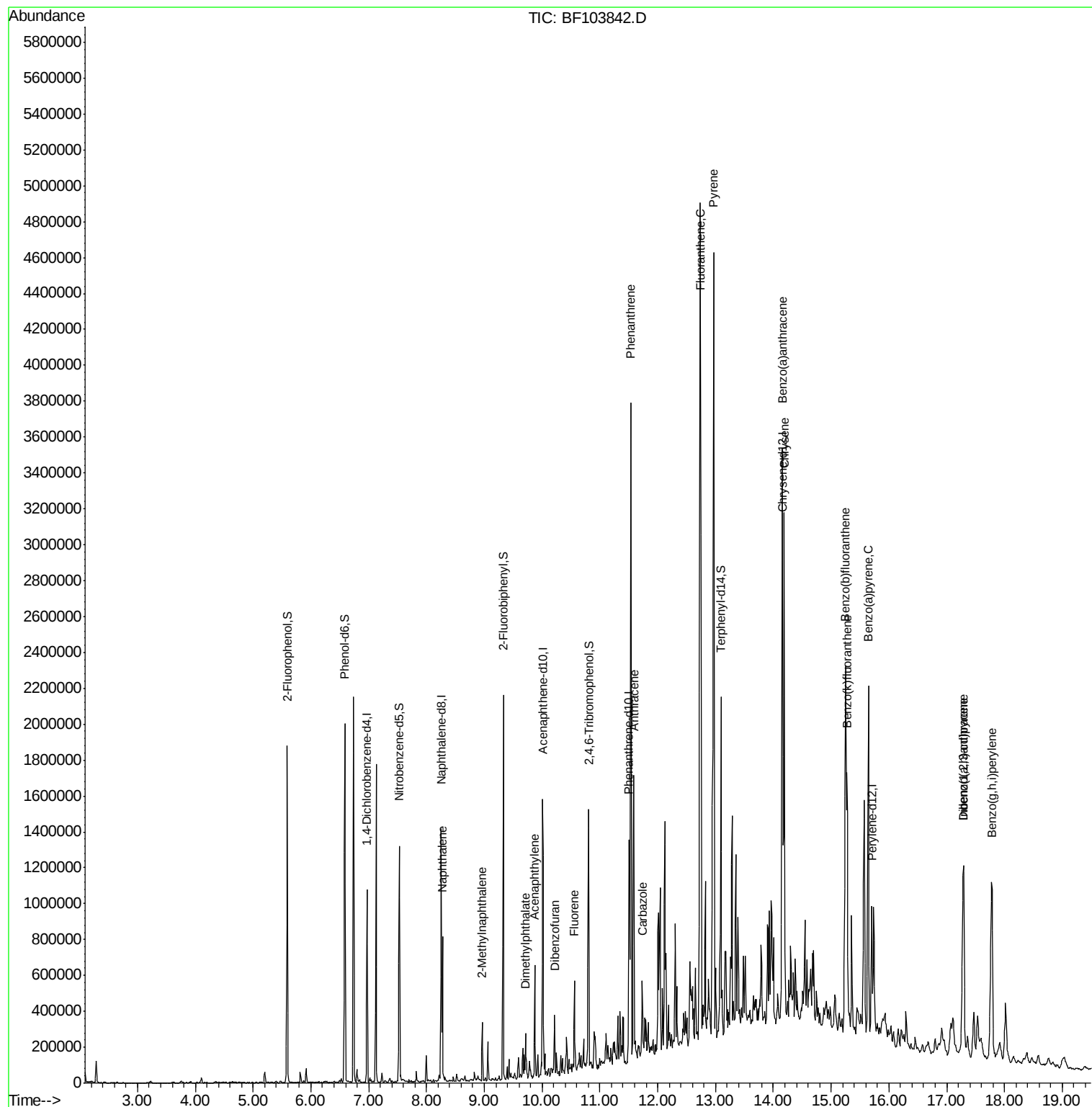
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_F\DATA\BF032218\
Data File : BF103842.D
Acq On : 22 Mar 2018 10:36
Operator : JU/SJ
Sample : J1946-02 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

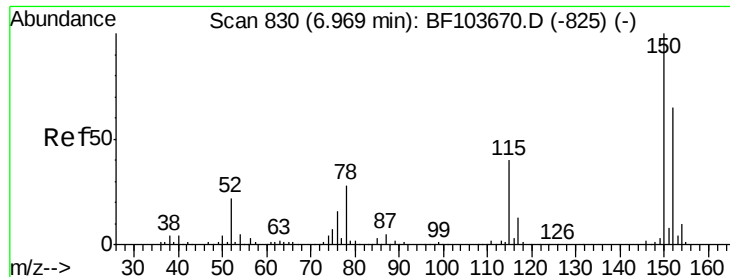
Instrument :
BNA_F
ClientSampleId :
SB-104(22-23)

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM

Quant Time: Mar 23 09:10:08 2018
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 22 11:56:49 2018
Response via : Initial Calibration





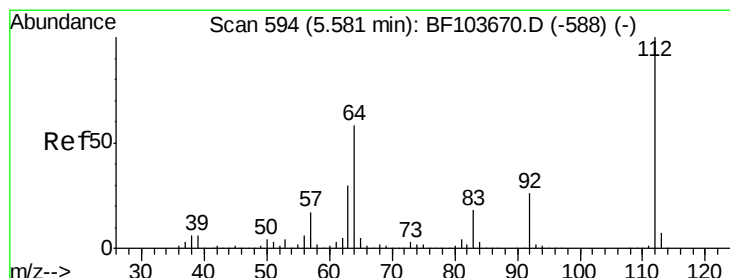
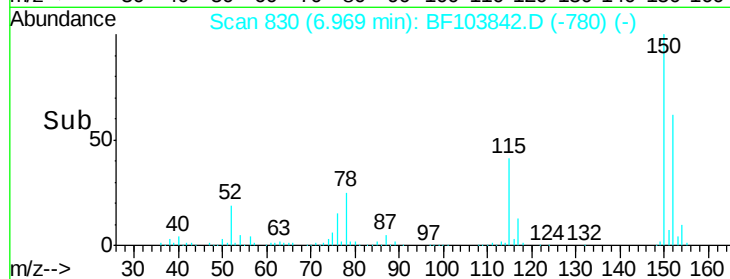
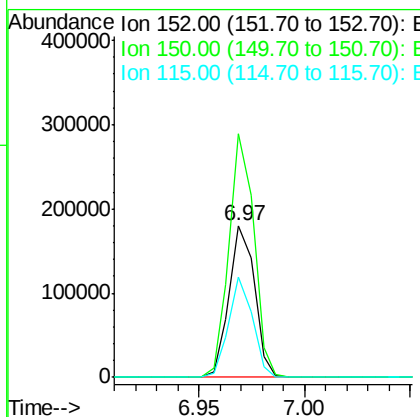
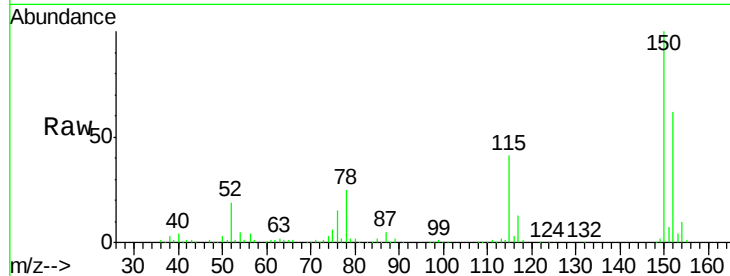
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 830
 Delta R.T. -0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(22-23)

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	149543		
150	160.5	124.6	186.8	
115	65.8	50.1	75.1	

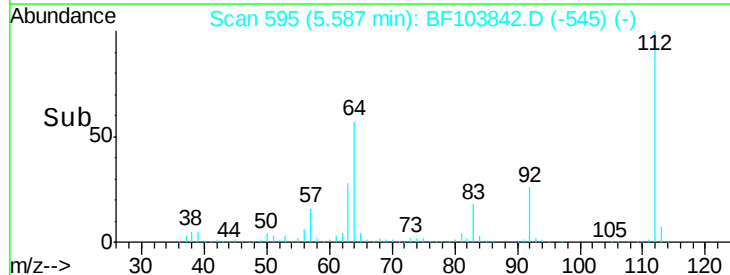
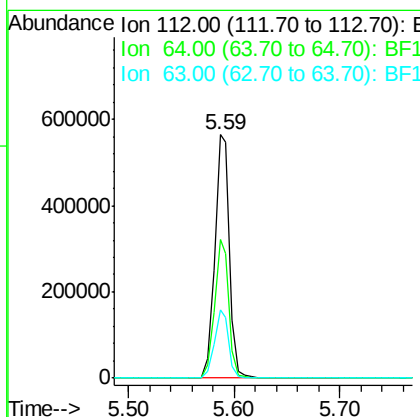
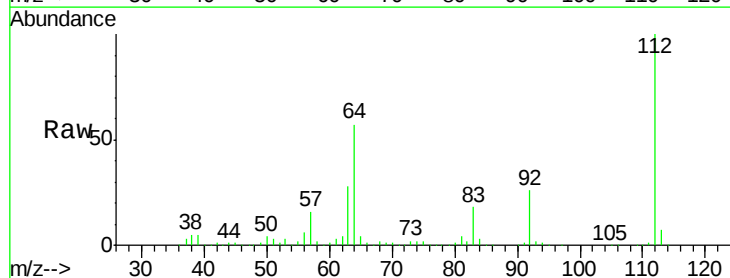
Manual Integrations
 APPROVED

Sohil
 3/23/2018 2:46:16 PM



#5
 2-Fluorophenol
 Concen: 56.795 ng
 RT: 5.59 min Scan# 595
 Delta R.T. -0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	558402		
64	57.0	47.9	71.9	
63	28.1	23.7	35.5	





#7

Phenol-d6

Concen: 57.035 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Instrument :

BNA_F

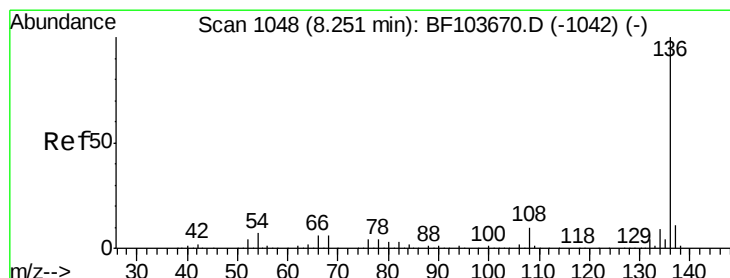
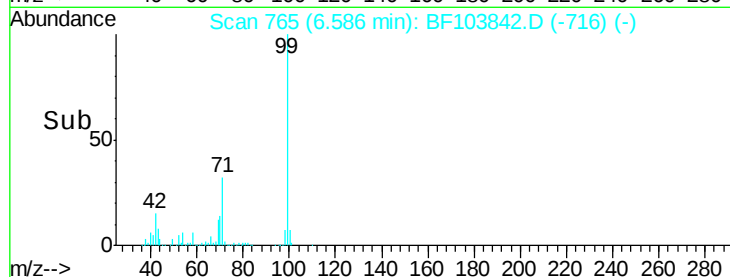
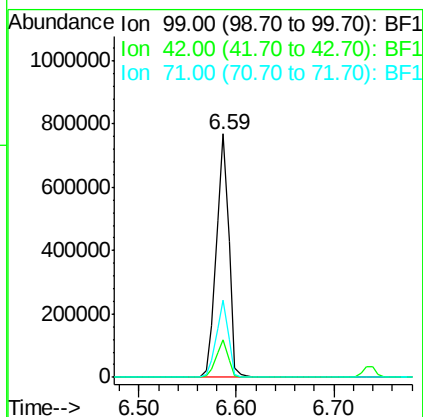
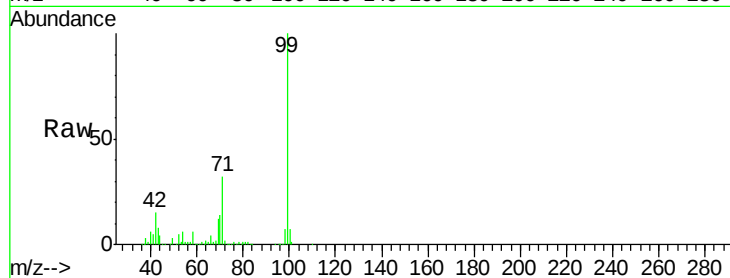
ClientSampleId :

SB-104(22-23)

Tgt Ion:	99	Resp:	686051
Ion Ratio	Lower	Upper	
99	100		
42	15.3	14.5	21.7
71	31.6	25.4	38.0

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM



#21

Naphthalene-d8

Concen: 20.000 ng

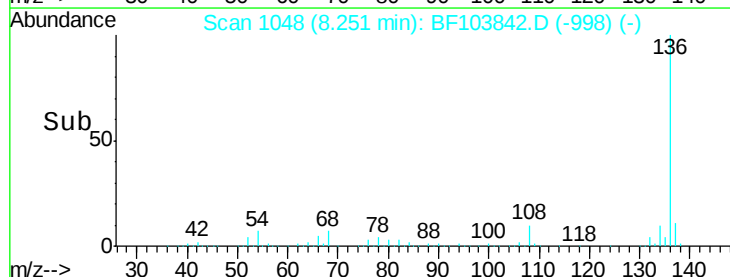
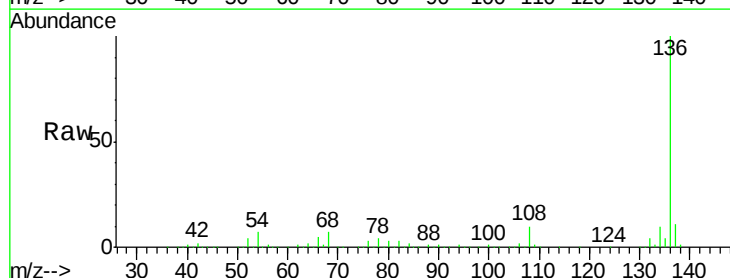
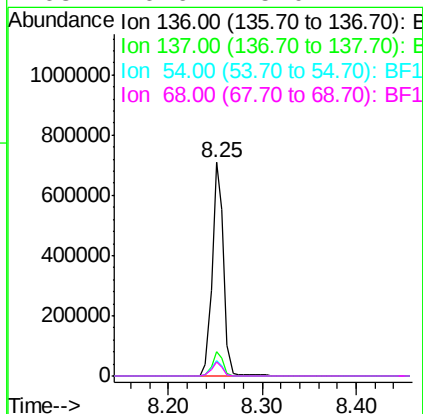
RT: 8.25 min Scan# 1048

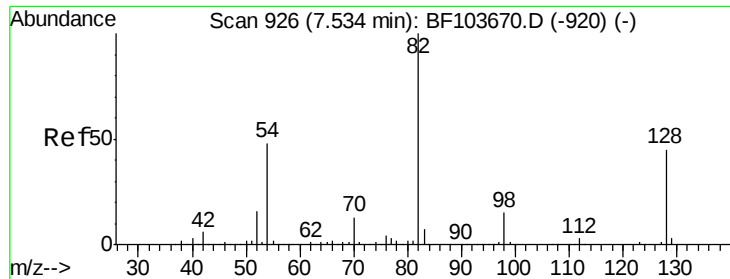
Delta R.T. -0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Tgt Ion:	136	Resp:	611270
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	7.4	6.6	9.8
68	6.6	5.0	7.4





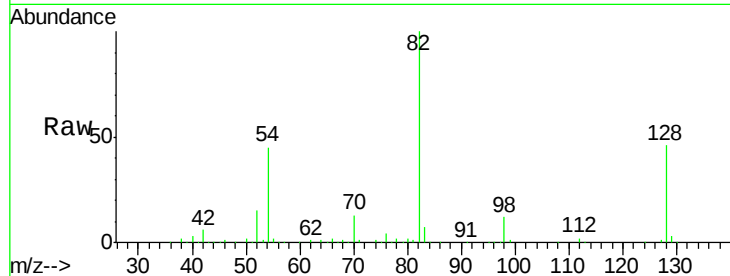
#23
 Nitrobenzene-d5
 Concen: 48.013 ng
 RT: 7.53 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(22-23)

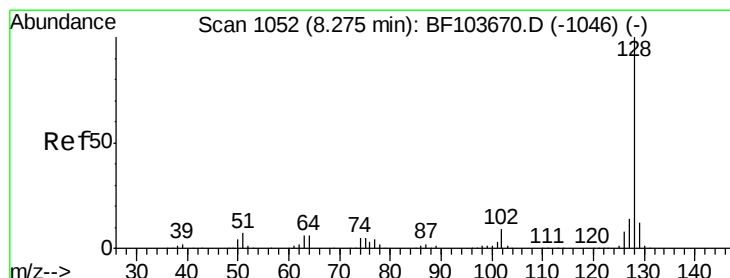
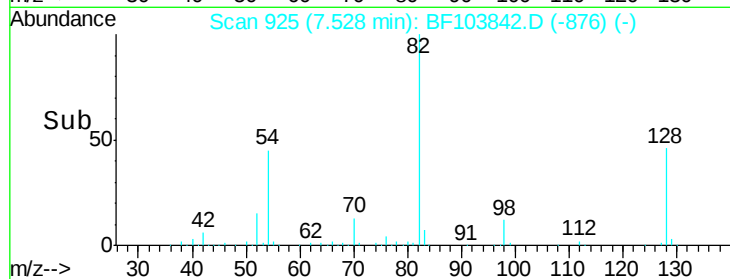
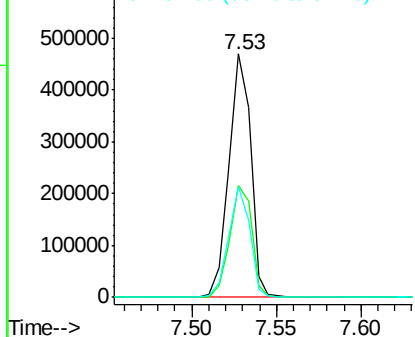
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	420862		
128	45.7	36.1	54.1	
54	45.4	41.4	62.2	

Manual Integrations
 APPROVED

Sohil
 3/23/2018 2:46:16 PM



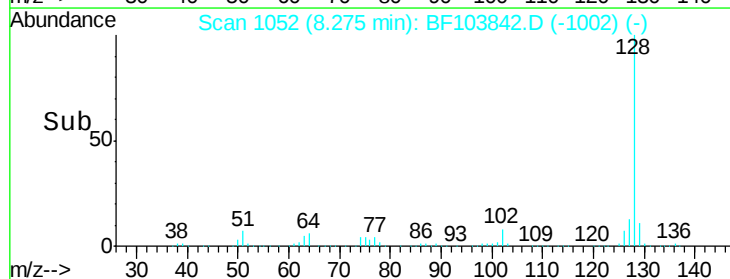
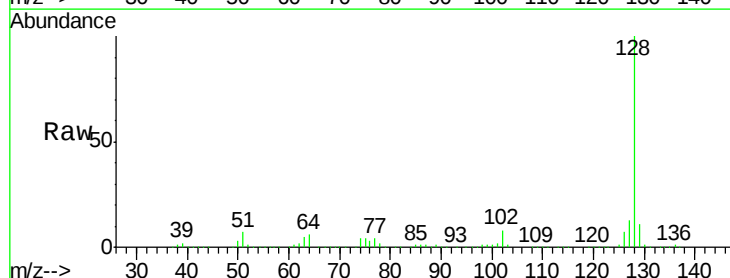
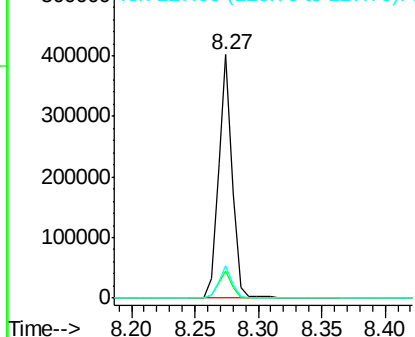
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

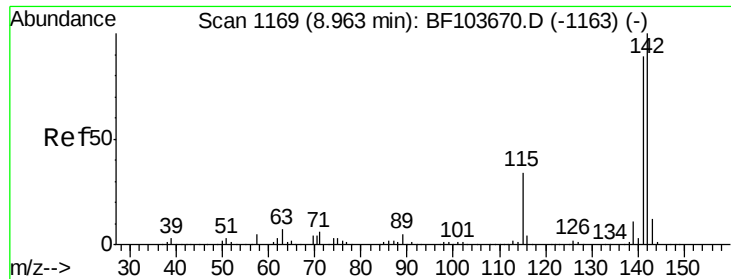


#31
 Naphthalene
 Concen: 9.910 ng
 RT: 8.27 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	306004		
129	11.1	8.8	13.2	
127	13.3	10.9	16.3	

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





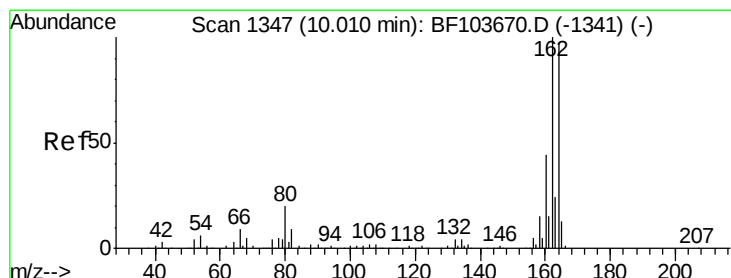
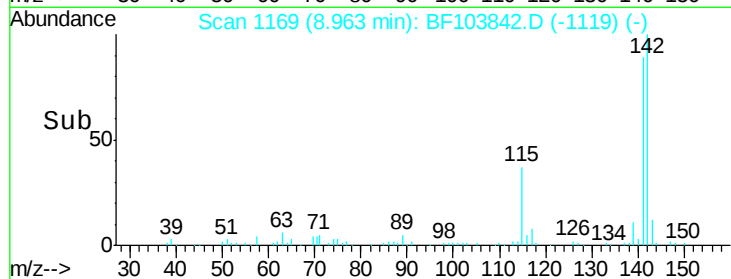
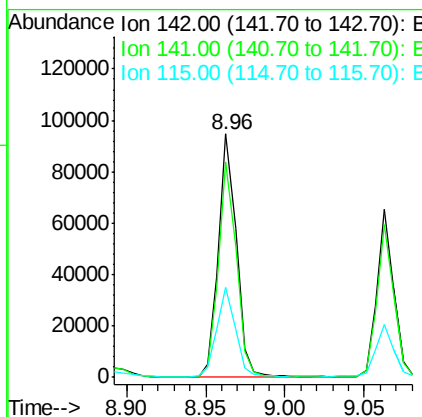
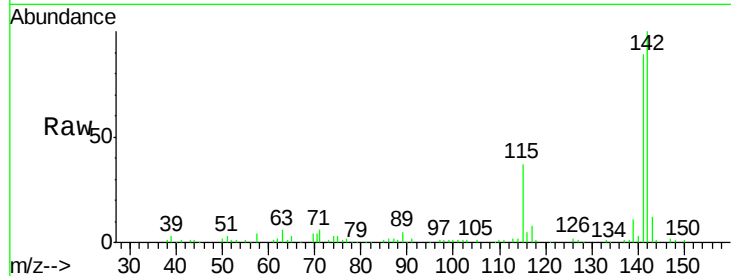
#37
2-Methylnaphthalene
Concen: 3.849 ng
RT: 8.96 min Scan# 1169
Delta R.T. -0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Instrument :
BNA_F
ClientSampleId :
SB-104(22-23)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.8	106.2
115	37.1	26.1	39.1

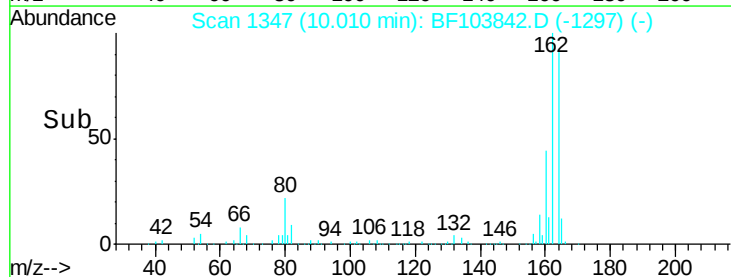
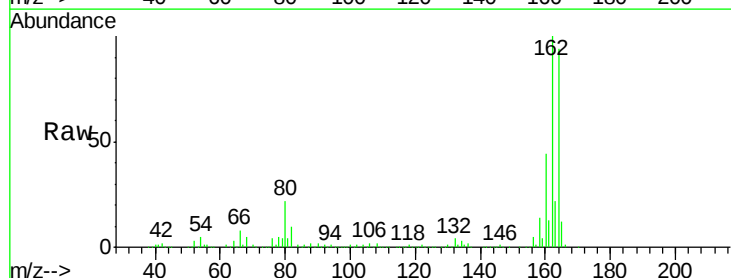
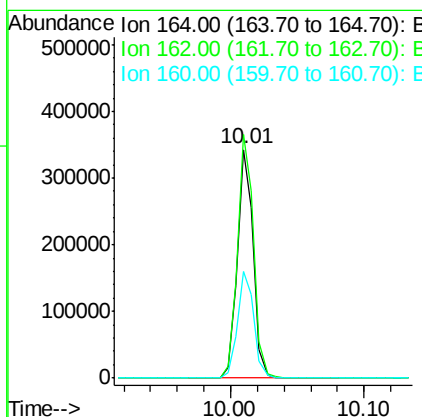
Manual Integrations
APPROVED

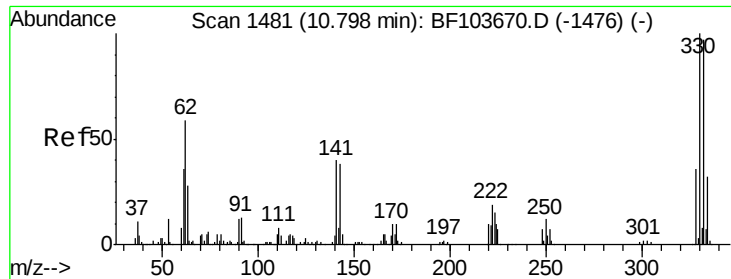
Sohil
3/23/2018 2:46:16 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.6	86.1	129.1
160	46.4	38.3	57.5





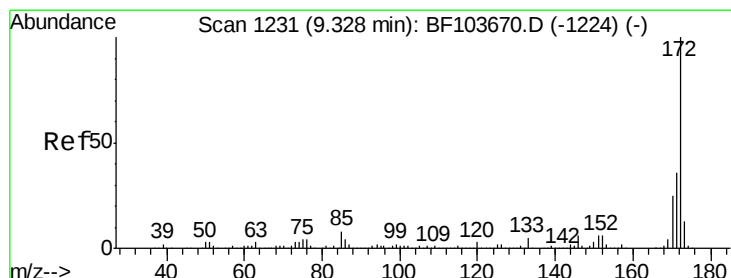
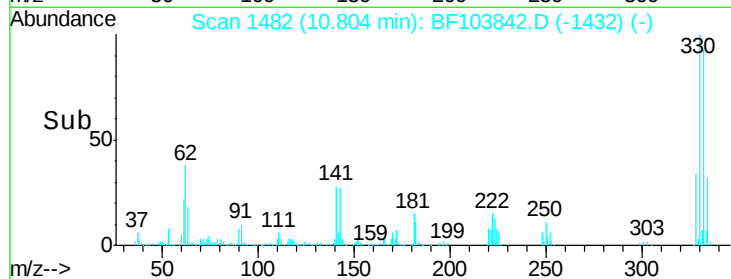
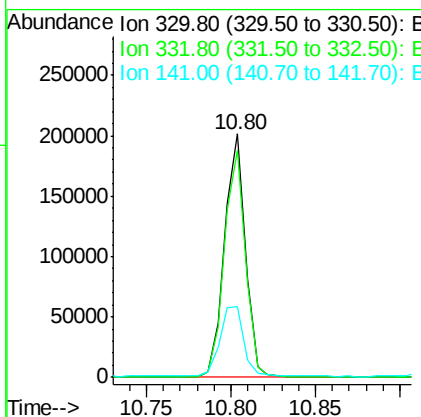
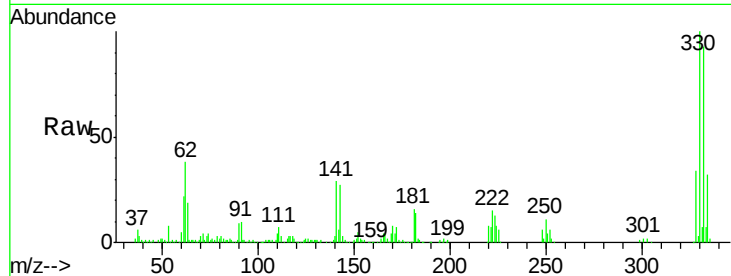
#41
 2,4,6-Tribromophenol
 Concen: 70.352 ng
 RT: 10.80 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(22-23)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	172881		
332	94.9	77.0	115.6	
141	33.5	29.9	44.9	

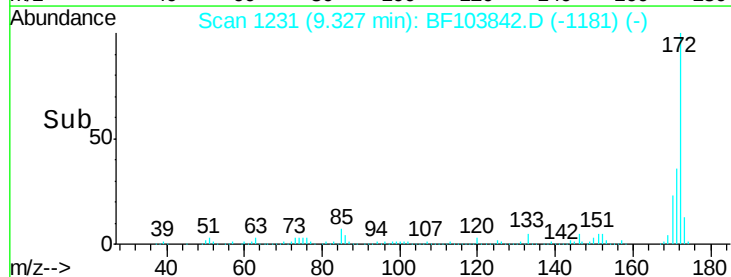
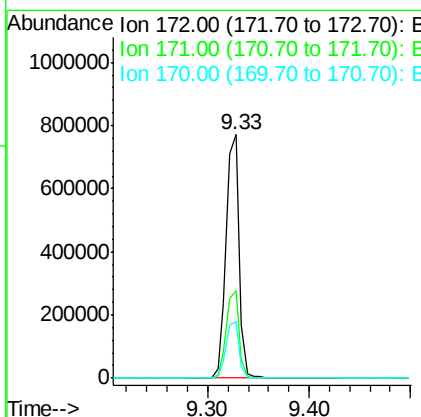
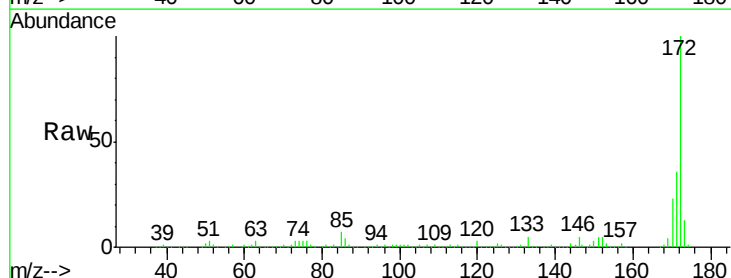
Manual Integrations
 APPROVED

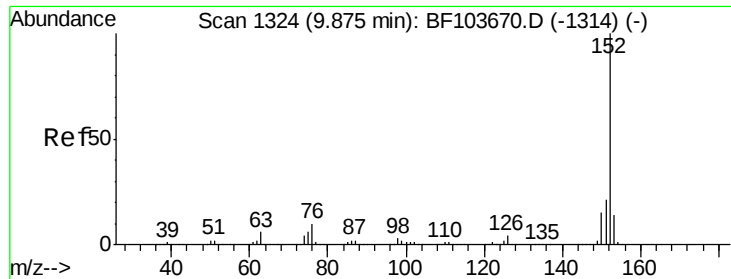
Sohil
 3/23/2018 2:46:16 PM



#44
 2-Fluorobiphenyl
 Concen: 38.428 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	688524		
171	36.2	29.7	44.5	
170	23.2	19.6	29.4	





#48

Acenaphthylene

Concen: 9.060 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Instrument :

BNA_F

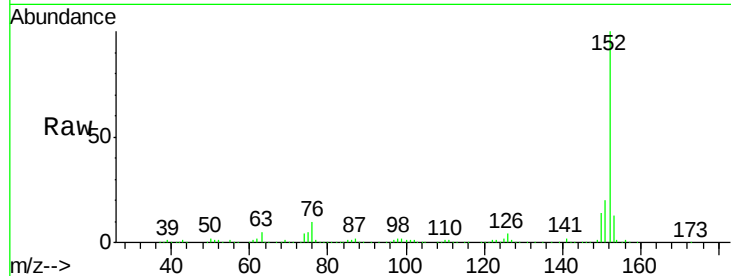
ClientSampleId :

SB-104(22-23)

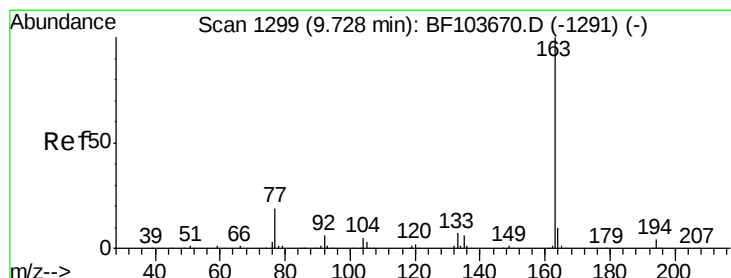
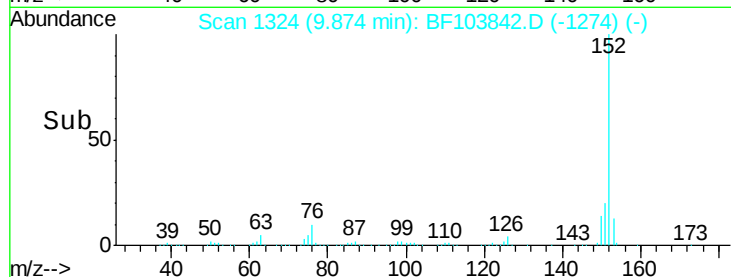
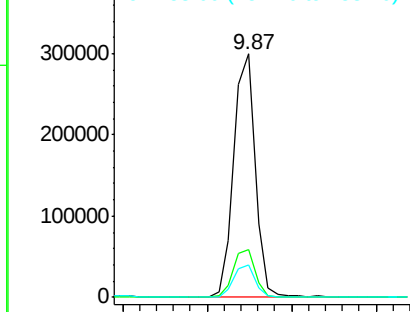
Tgt Ion:	152	Resp:	265942
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.3	24.5
153	13.3	10.7	16.1

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 3.258 ng

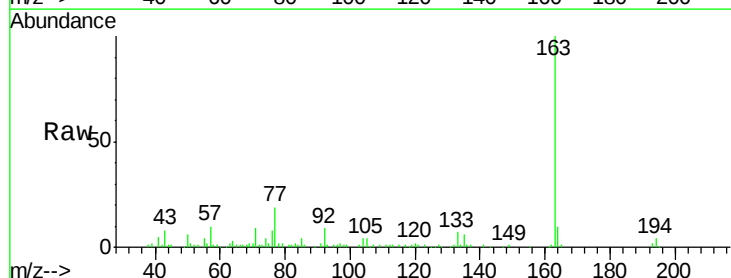
RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

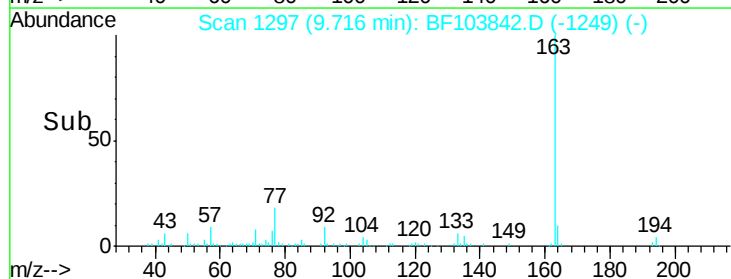
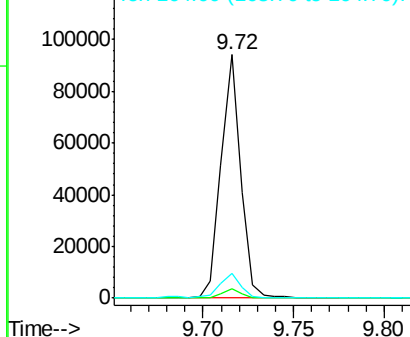
Lab File: BF103842.D

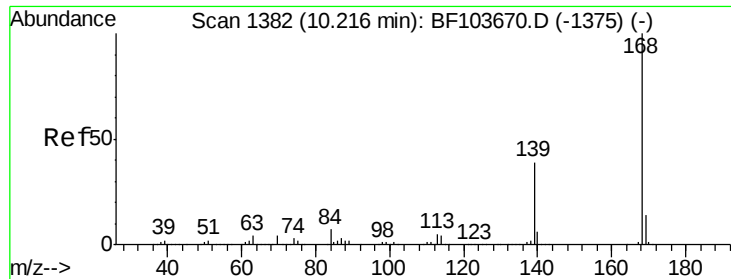
Acq: 22 Mar 2018 10:36

Tgt Ion:	163	Resp:	71048
Ion Ratio	Lower	Upper	
163	100		
194	3.8	2.7	4.1
164	10.4	8.2	12.2



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





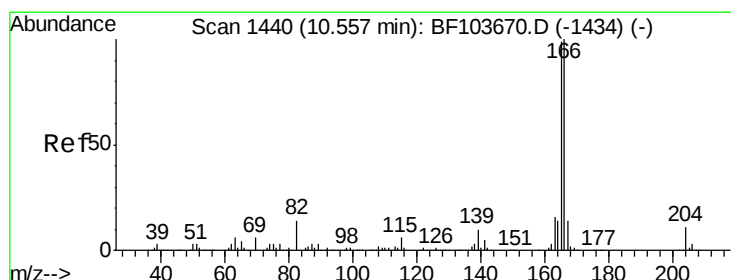
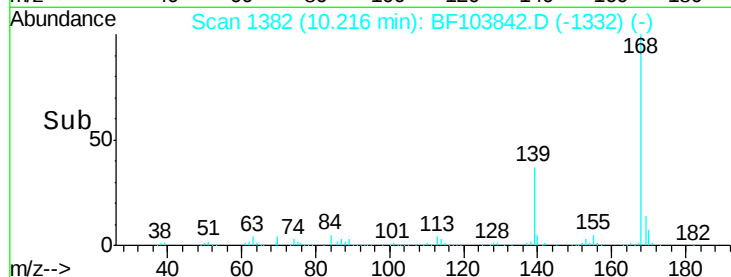
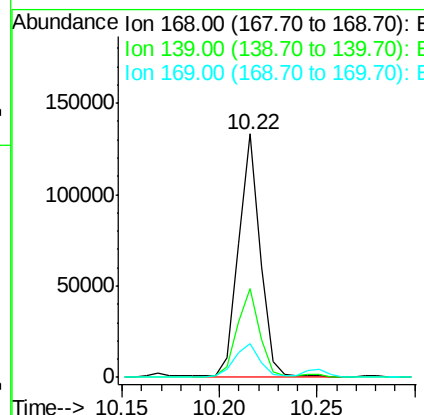
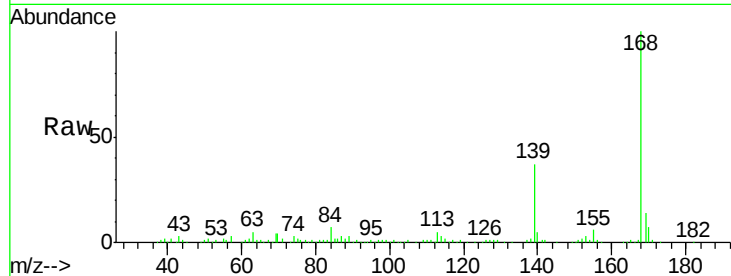
#54
Dibenzofuran
Concen: 4.095 ng
RT: 10.22 min Scan# 1382
Delta R.T. -0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Instrument :
BNA_F
ClientSampleId :
SB-104(22-23)

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	101944		
139	36.5	30.1	45.1	
169	13.9	10.9	16.3	

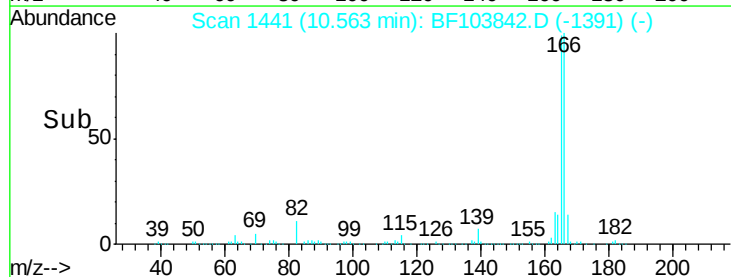
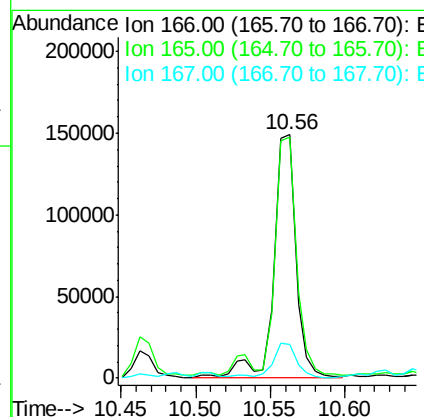
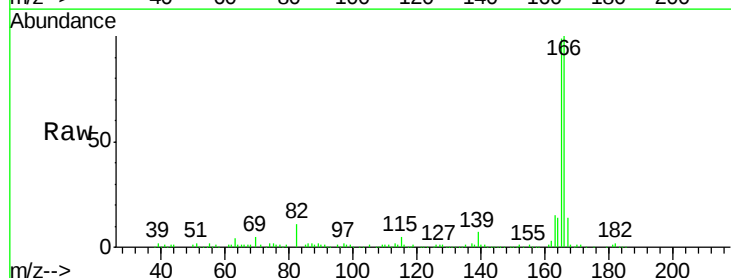
Manual Integrations
APPROVED

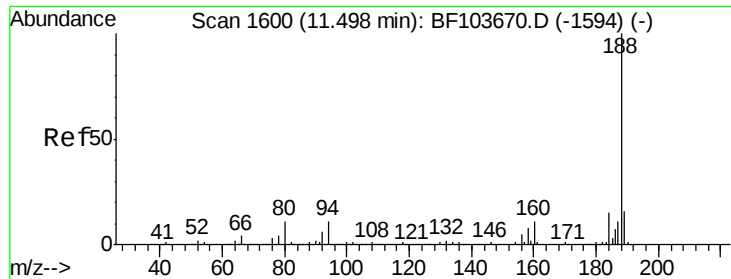
Sohil
3/23/2018 2:46:16 PM



#57
Fluorene
Concen: 7.915 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	152885		
165	99.0	79.8	119.8	
167	14.0	10.6	16.0	





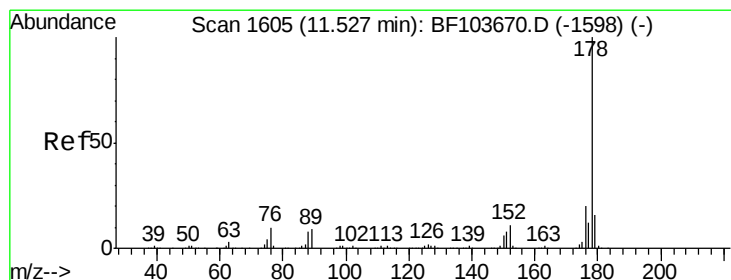
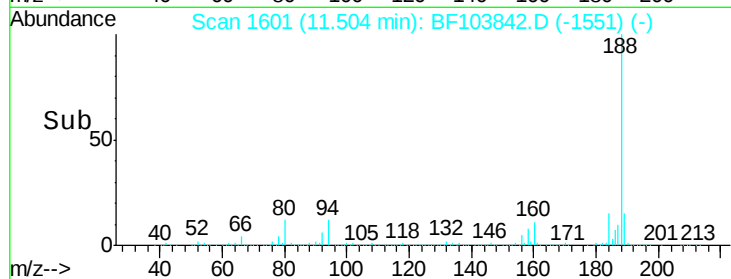
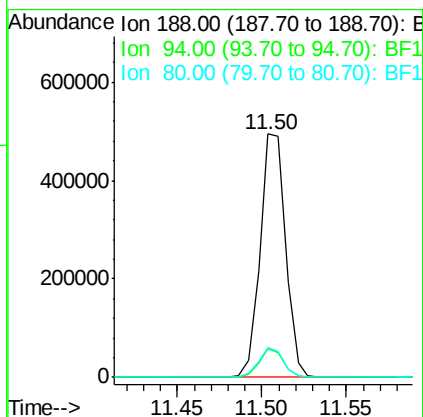
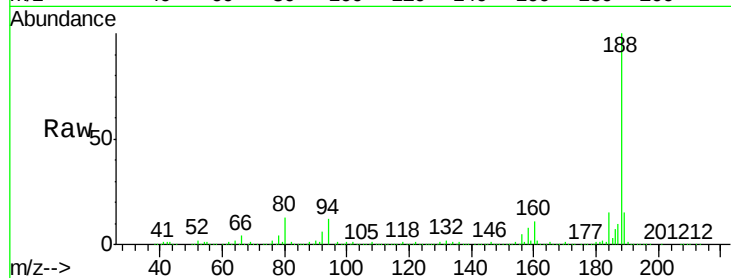
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Instrument :
BNA_F
ClientSampleId :
SB-104(22-23)

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	518024		
94	11.7	8.5	12.7	
80	12.5	9.2	13.8	

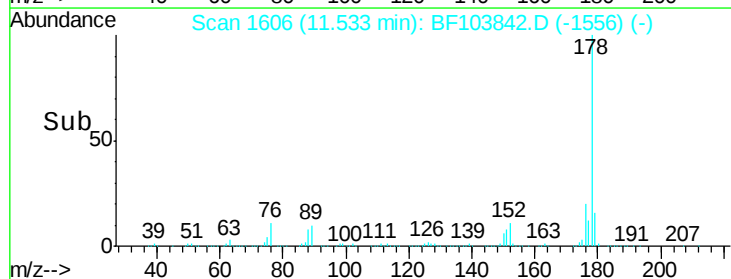
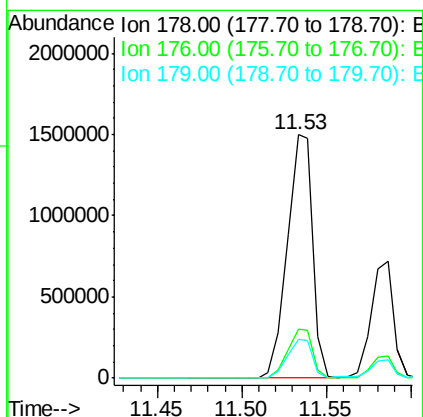
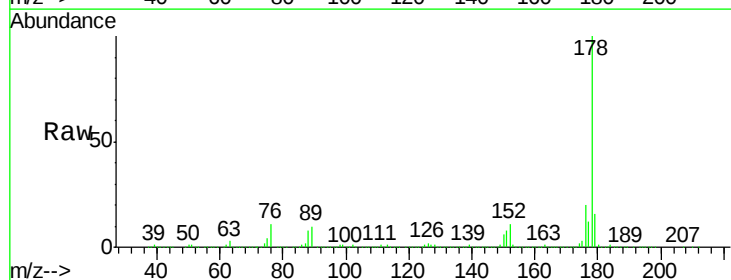
Manual Integrations
APPROVED

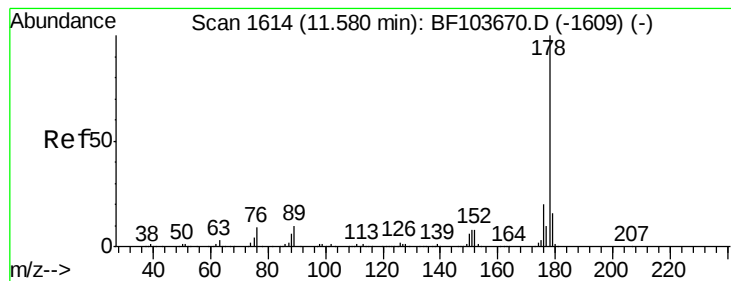
Sohil
3/23/2018 2:46:16 PM



#70
Phenanthrene
Concen: 55.258 ng
RT: 11.53 min Scan# 1606
Delta R.T. -0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1565863		
176	20.1	15.8	23.8	
179	15.8	13.0	19.6	





#71

Anthracene

Concen: 23.087 ng

RT: 11.59 min Scan# 1615

Delta R.T. -0.00 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Instrument :

BNA_F

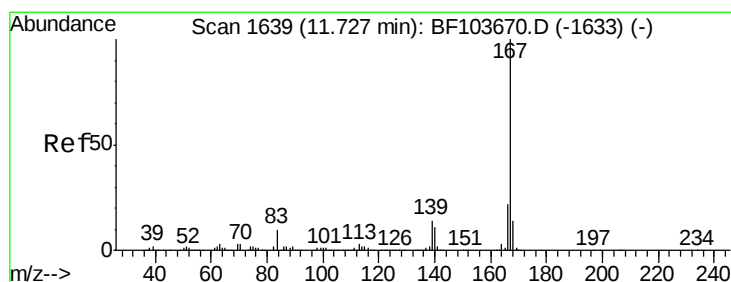
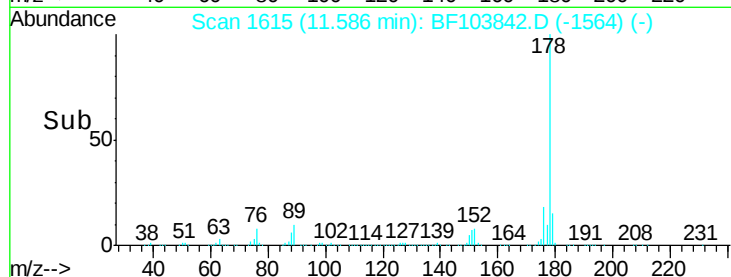
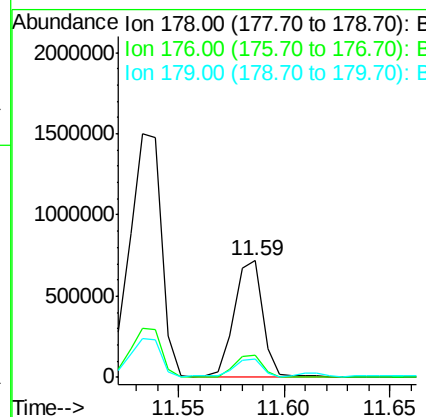
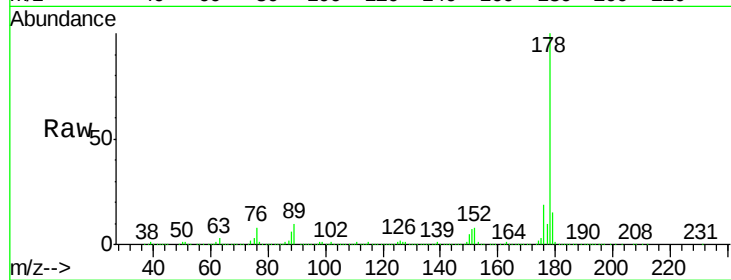
ClientSampleId :

SB-104(22-23)

Tgt Ion:	178	Resp:	664468
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.4	23.2
179	15.5	12.6	19.0

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM



#72

Carbazole

Concen: 5.036 ng

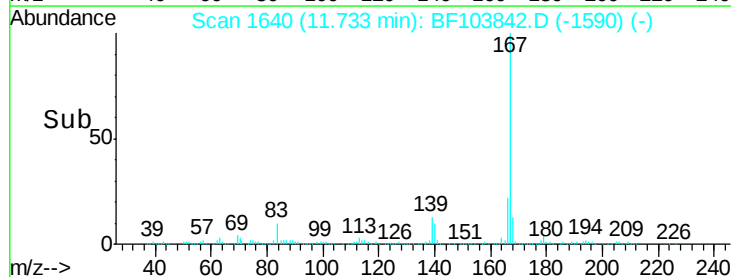
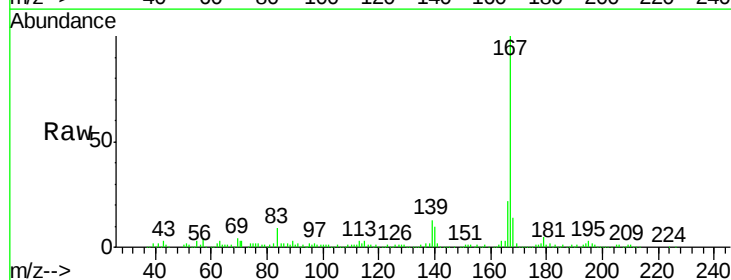
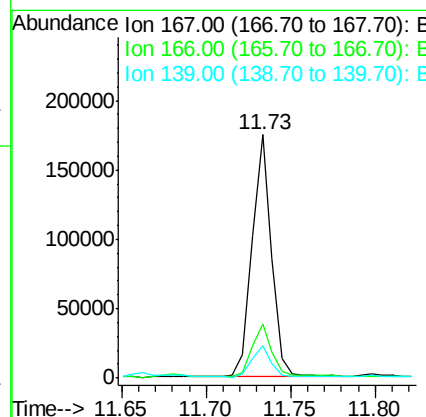
RT: 11.73 min Scan# 1640

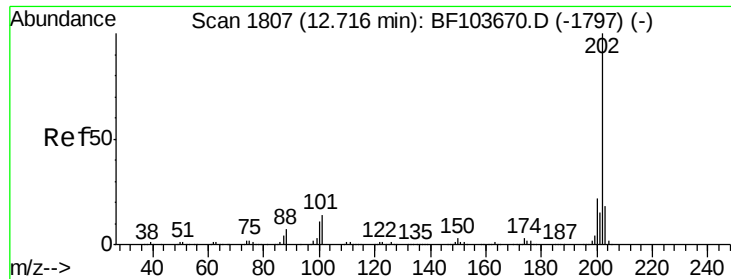
Delta R.T. -0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Tgt Ion:	167	Resp:	140877
Ion Ratio	Lower	Upper	
167	100		
166	22.1	17.6	26.4
139	13.1	10.9	16.3





#74

Fluoranthene

Concen: 91.918 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Instrument :

BNA_F

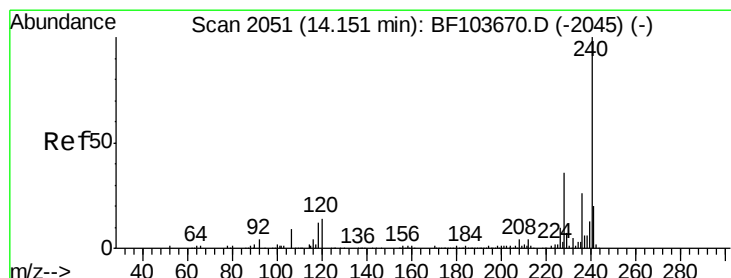
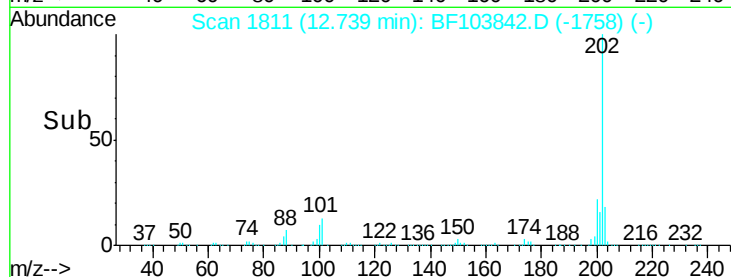
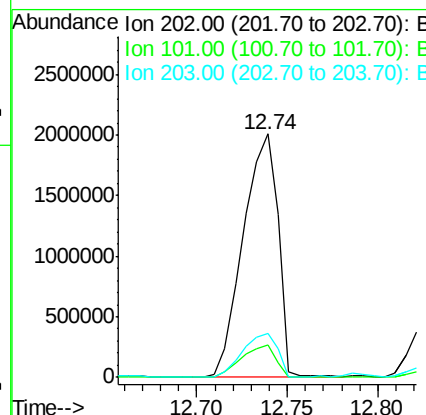
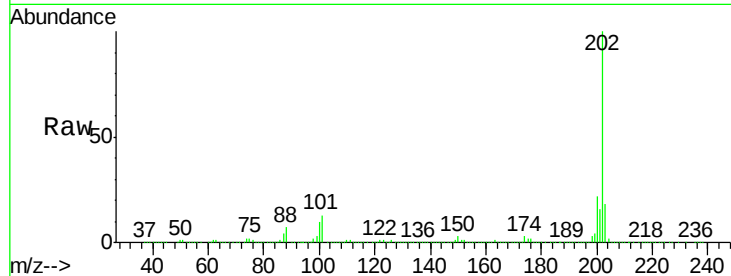
ClientSampleId :

SB-104(22-23)

Tgt	Ion	202	Resp:	2683431
Ion	Ratio	Lower	Upper	
202	100			
101	13.2	0.0	34.1	
203	18.1	0.0	38.1	

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM



#75

Chrysene-d12

Concen: 20.000 ng

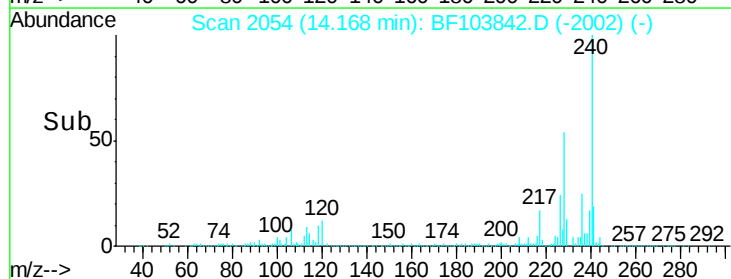
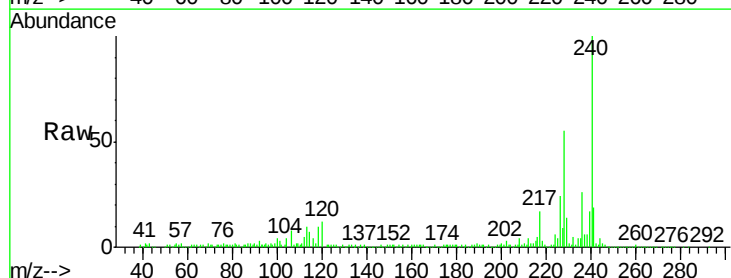
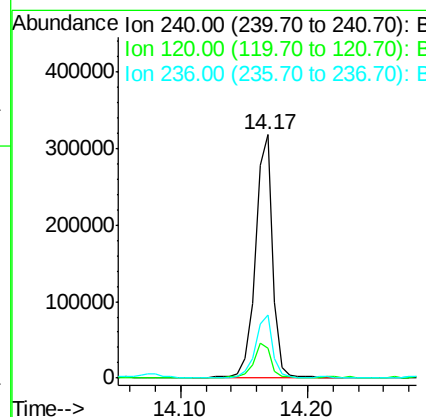
RT: 14.17 min Scan# 2054

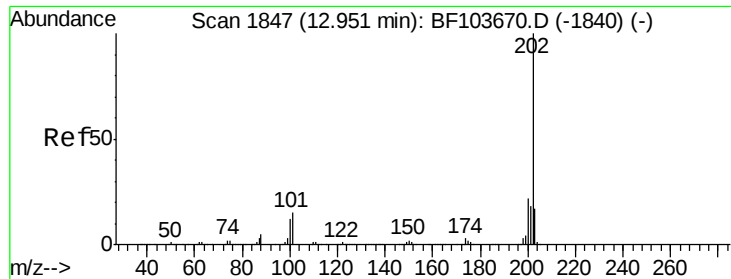
Delta R.T. 0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Tgt	Ion	240	Resp:	298237
Ion	Ratio	Lower	Upper	
240	100			
120	12.3	9.5	14.3	
236	25.9	20.7	31.1	





#77

Pyrene

Concen: 105.430 ng

RT: 12.97 min Scan# 1850

Delta R.T. 0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Instrument :

BNA_F

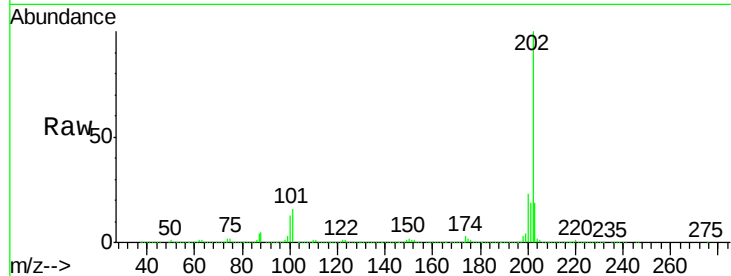
ClientSampleId :

SB-104(22-23)

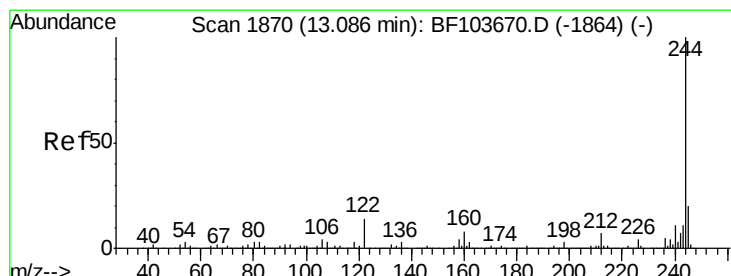
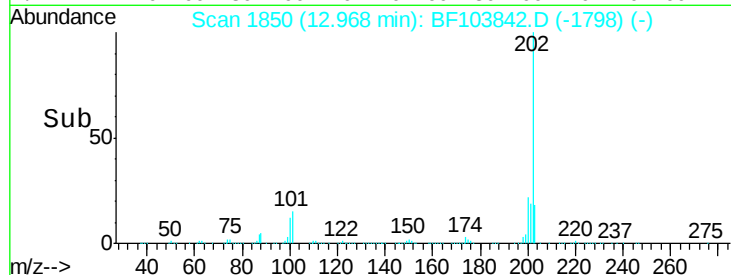
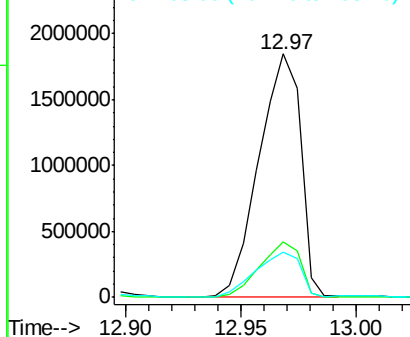
Tgt Ion:	202	Resp:	2309161
Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.4	26.2
203	18.7	14.3	21.5

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM



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



#78

Terphenyl-d14

Concen: 46.004 ng

RT: 13.09 min Scan# 1871

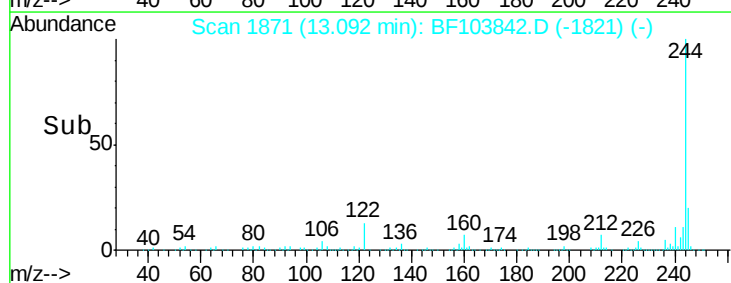
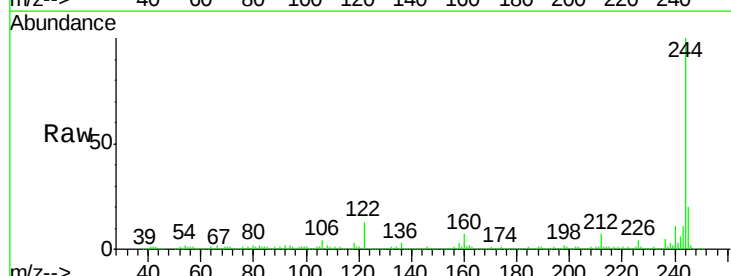
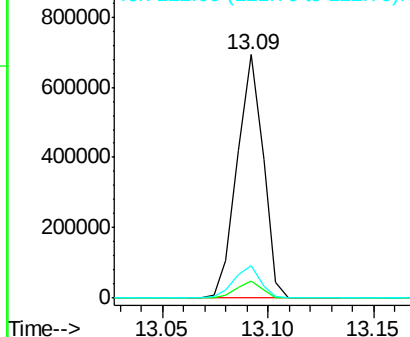
Delta R.T. -0.01 min

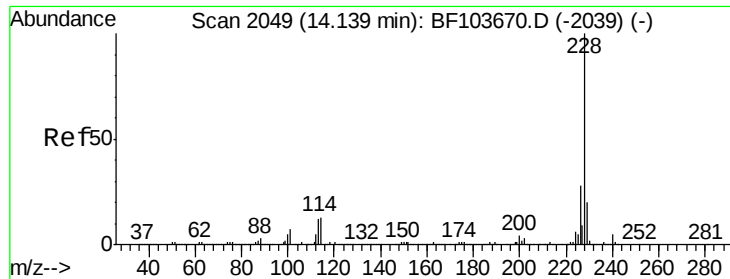
Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Tgt Ion:	244	Resp:	591086
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	13.2	11.0	16.4

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: 64.706 ng m

RT: 14.16 min Scan# 2052

Delta R.T. 0.01 min

Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Instrument :

BNA_F

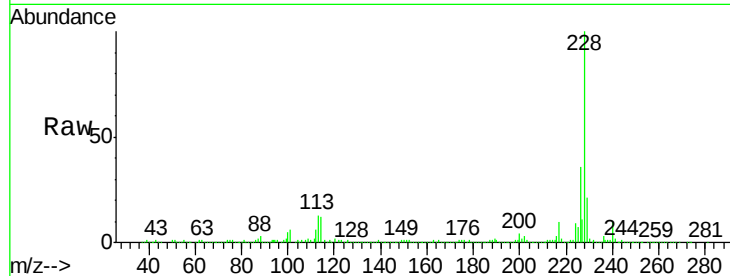
ClientSampleId :

SB-104(22-23)

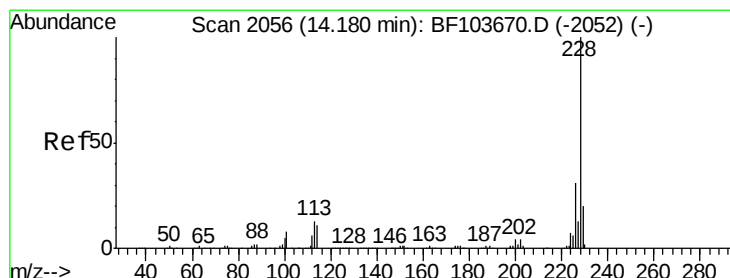
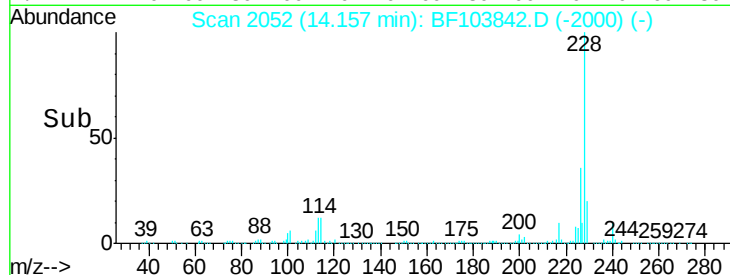
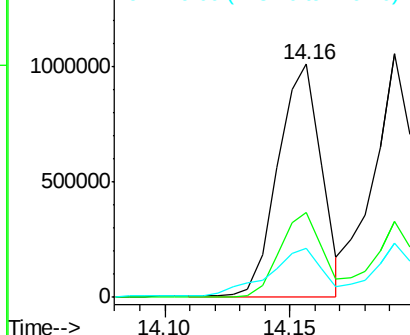
Tgt Ion:	228	Resp:	1221537
Ion	Ratio	Lower	Upper
228	100		
226	36.2	22.6	33.8#
229	21.0	15.8	23.6

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM



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: 61.866 ng m

RT: 14.19 min Scan# 2058

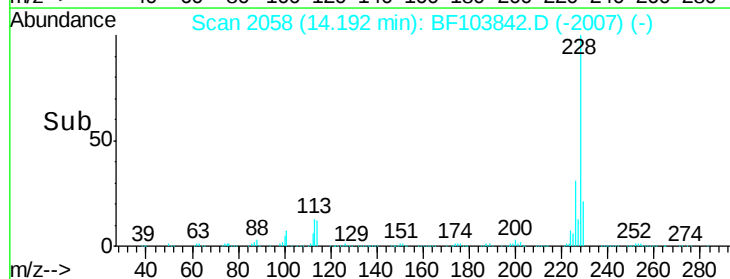
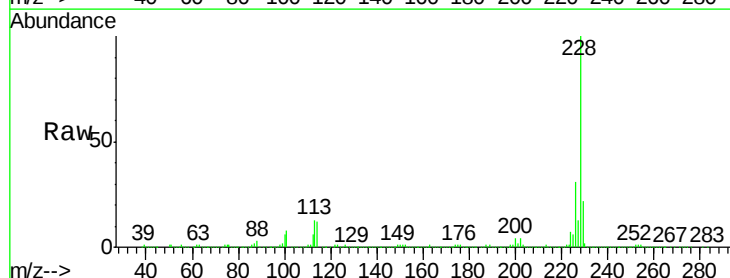
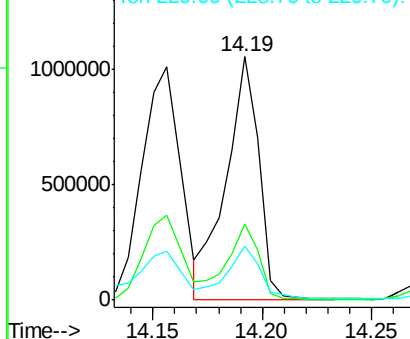
Delta R.T. -0.00 min

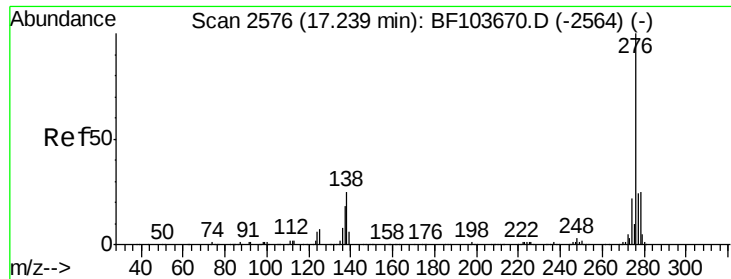
Lab File: BF103842.D

Acq: 22 Mar 2018 10:36

Tgt Ion:	228	Resp:	1113331
Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.0	37.6
229	22.1	16.2	24.4

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





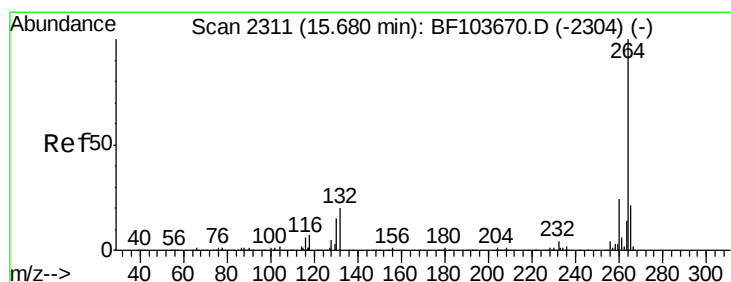
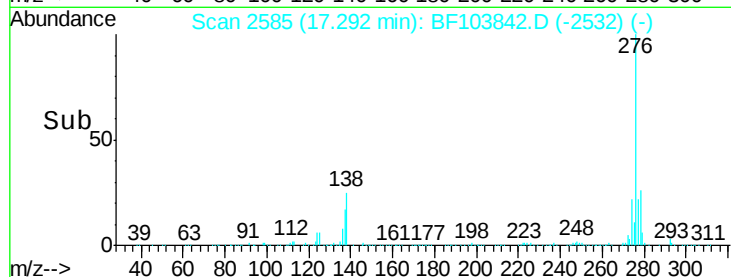
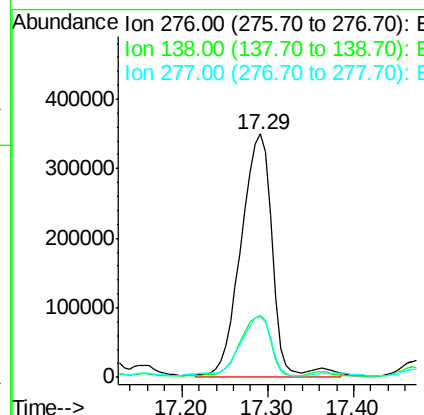
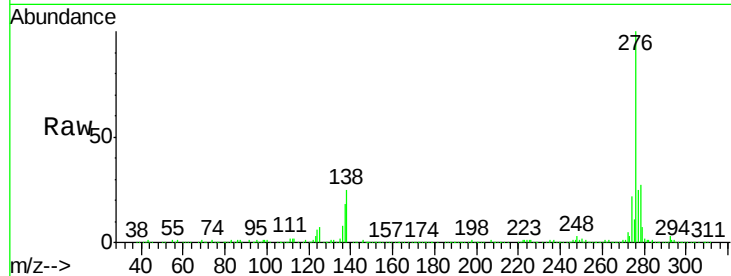
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 56.728 ng m
 RT: 17.29 min Scan# 2585
 Delta R.T. 0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-104(22-23)

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.8	25.0	37.6#
277	23.8	20.1	30.1

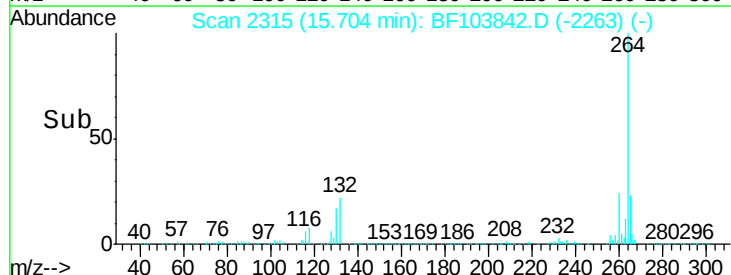
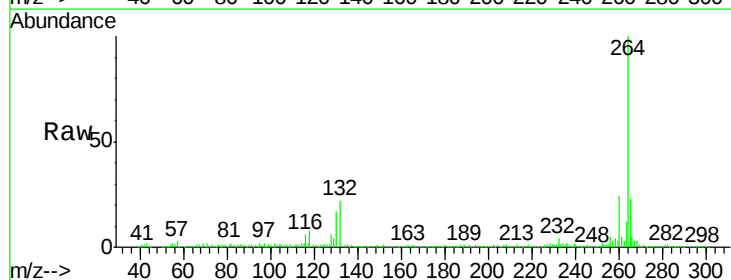
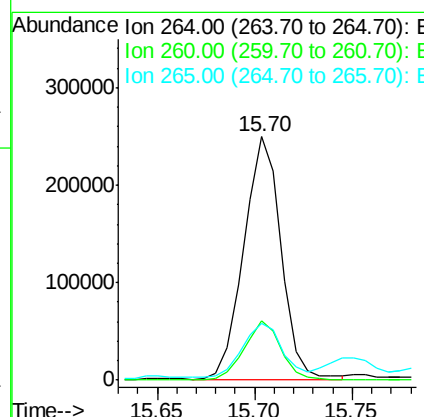
Manual Integrations
 APPROVED

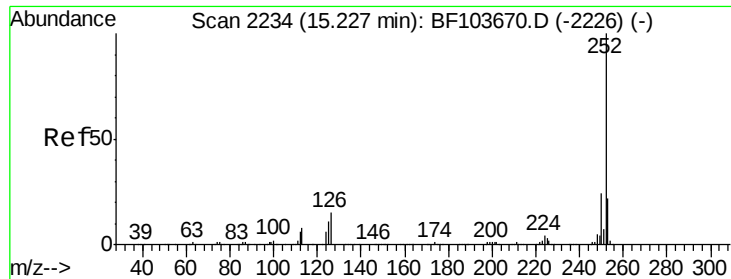
Sohil
 3/23/2018 2:46:16 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.70 min Scan# 2315
 Delta R.T. 0.01 min
 Lab File: BF103842.D
 Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	23.1	17.5	26.3





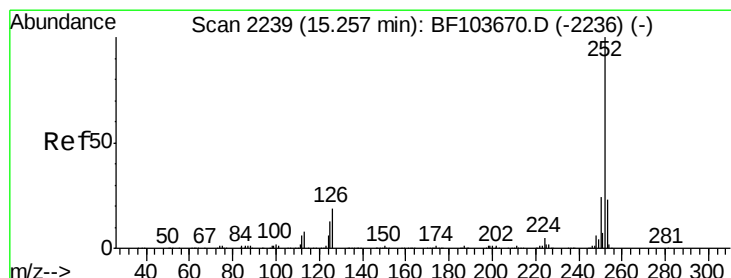
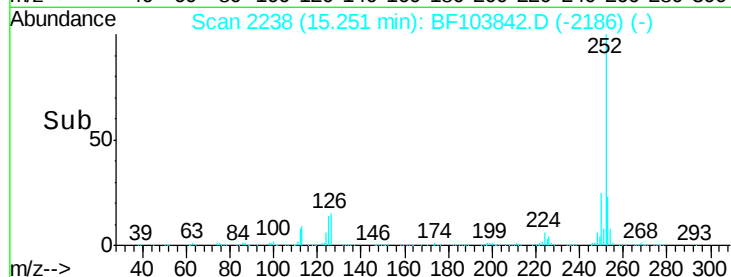
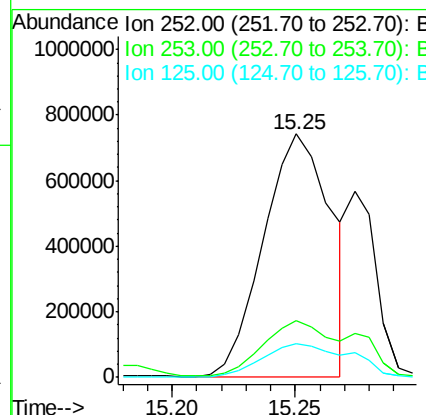
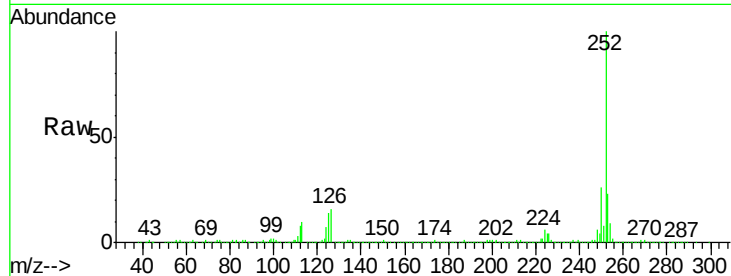
#87
Benzo(b)fluoranthene
Concen: 68.463 ng m
RT: 15.25 min Scan# 2238
Delta R.T. 0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Instrument :
BNA_F
ClientSampleId :
SB-104(22-23)

Tgt Ion:252 Resp: 1420423
Ion Ratio Lower Upper
252 100
253 23.3 17.0 25.6
125 13.9 9.0 13.6#

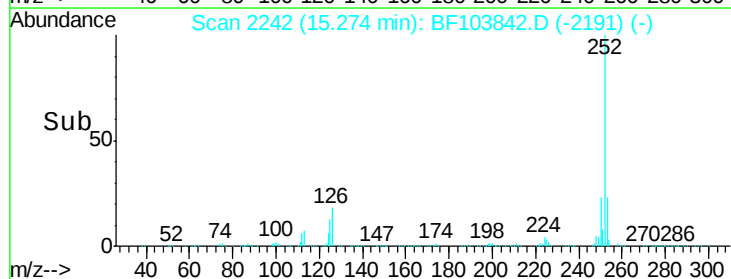
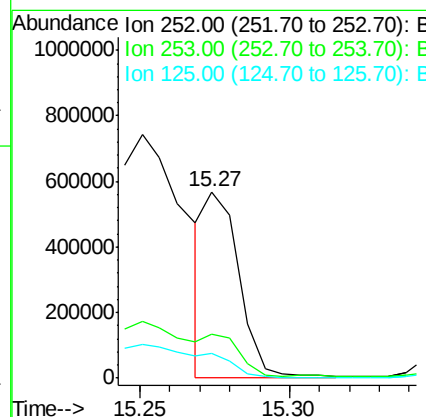
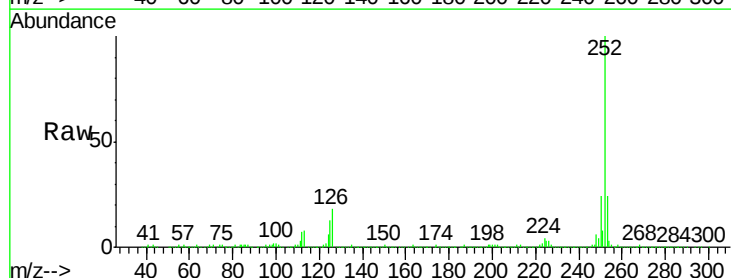
Manual Integrations
APPROVED

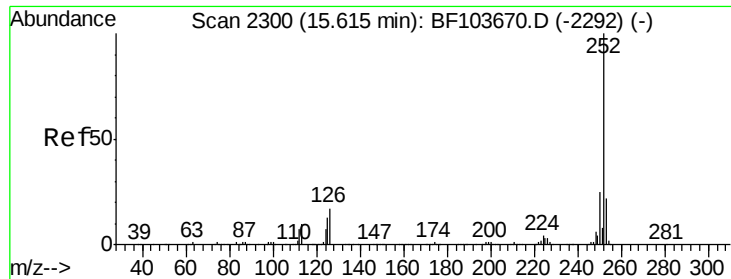
Sohil
3/23/2018 2:46:16 PM



#88
Benzo(k)fluoranthene
Concen: 22.915 ng m
RT: 15.27 min Scan# 2242
Delta R.T. -0.00 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Tgt Ion:252 Resp: 457018
Ion Ratio Lower Upper
252 100
253 23.6 17.9 26.9
125 13.1 10.2 15.2





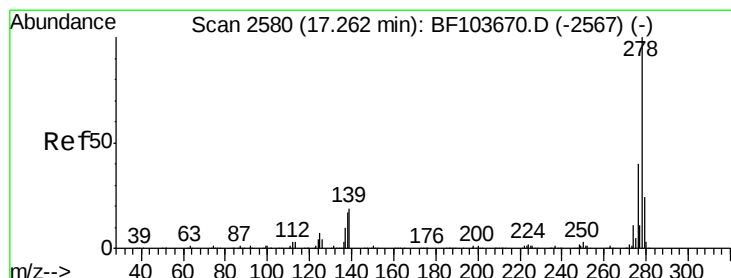
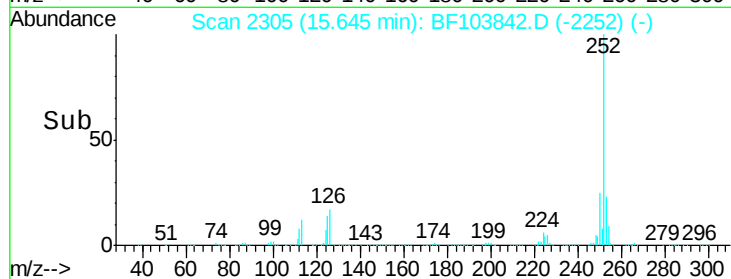
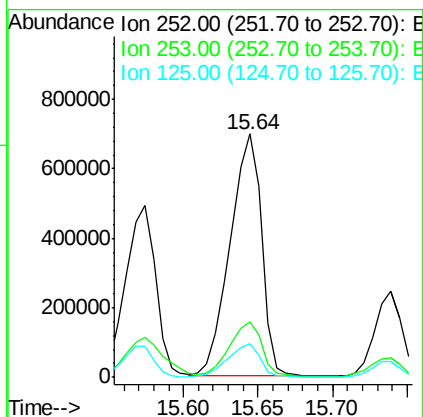
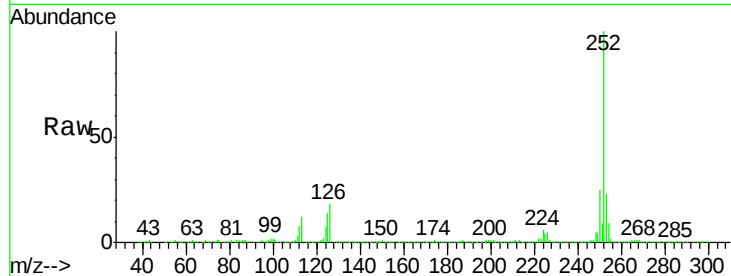
#89
Benzo(a)pyrene
Concen: 54.953 ng
RT: 15.64 min Scan# 2305
Delta R.T. 0.01 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Instrument :
BNA_F
ClientSampleId :
SB-104(22-23)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	14.1	9.8	14.6

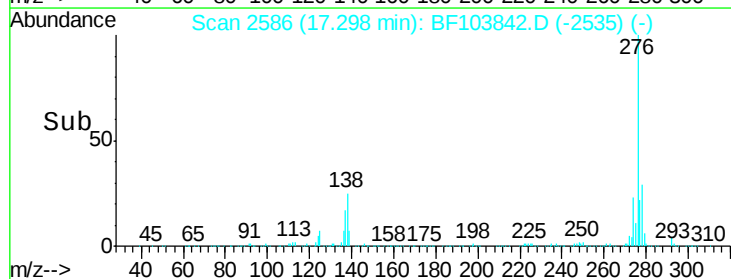
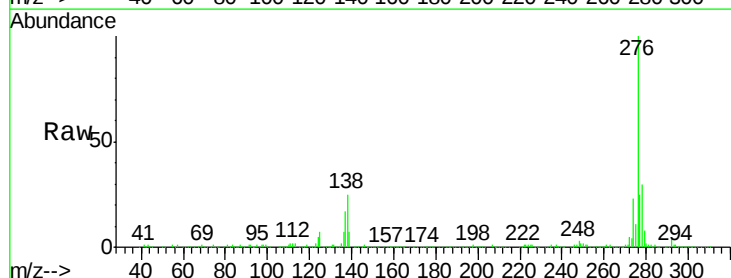
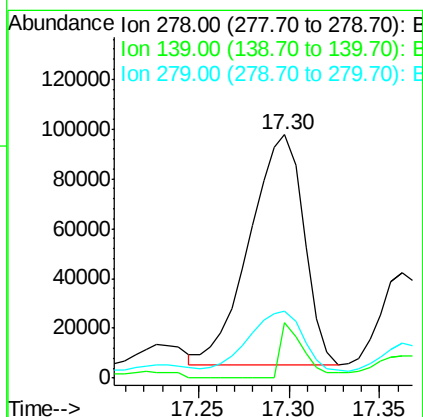
Manual Integrations
APPROVED

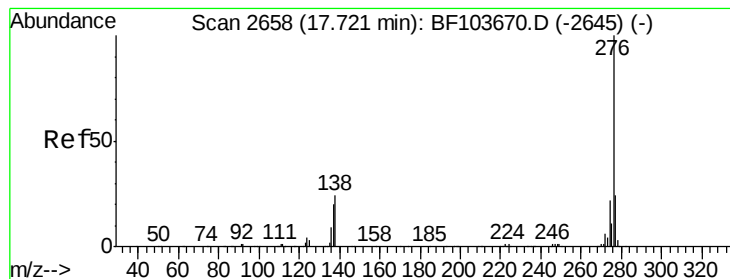
Sohil
3/23/2018 2:46:16 PM



#90
Dibenzo(a,h)anthracene
Concen: 11.799 ng
RT: 17.30 min Scan# 2586
Delta R.T. -0.00 min
Lab File: BF103842.D
Acq: 22 Mar 2018 10:36

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.6	15.9	23.9
279	27.5	19.0	28.4





#91

Benzo(g,h,i)perylene

Concen: 57.070 ng

RT: 17.78 min Scan# 2668

Delta R.T. 0.02 min

Lab File: BF103842.D

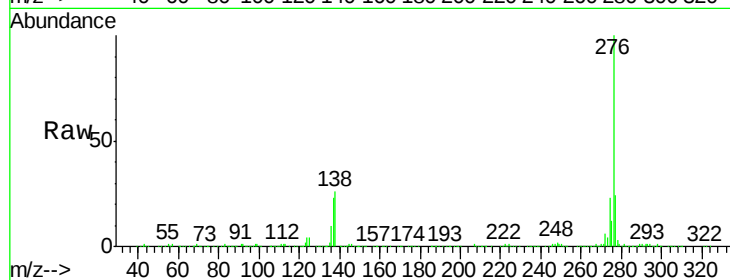
Acq: 22 Mar 2018 10:36

Instrument :

BNA_F

ClientSampleId :

SB-104(22-23)



Tgt Ion: 276 Resp: 904671

Ion Ratio Lower Upper

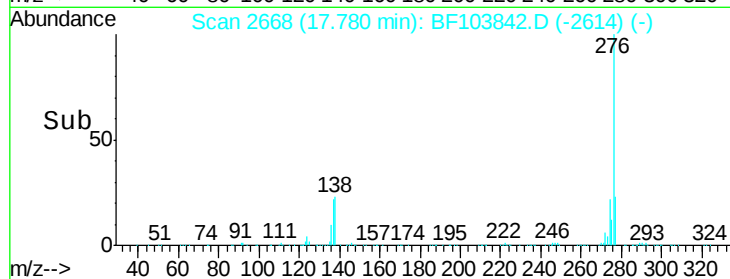
276 100

277 24.4 17.9 26.9

138 25.8 21.8 32.8

Manual Integrations
APPROVED

Sohil
3/23/2018 2:46:16 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

400000

300000

200000

100000

0

17.78

17.70

17.80

17.90

Time-->