

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF021918\
 Data File : BF103098.D
 Acq On : 19 Feb 2018 23:09
 Operator : SJ/JU
 Sample : J1600-08
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB44 BOT-S 8

Manual Integrations
 APPROVED

Sohil
 2/20/2018 10:20:53 AM

Quant Time: Feb 20 01:20:10 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 16 14:34:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	177119	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	741460	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	314747	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	461239	20.00	ng	0.00
75) Chrysene-d12	14.06	240	237705	20.00	ng	0.00
86) Perylene-d12	15.55	264	285488	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	1124853	96.45	ng	0.00
7) Phenol-d6	6.51	99	1348448	96.02	ng	0.00
23) Nitrobenzene-d5	7.44	82	876491	82.00	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	240047	94.75	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	1201706	63.35	ng	0.00
78) Terphenyl-d14	12.99	244	712745	71.00	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.52	94	31045	2.063	ng	95
31) Naphthalene	8.18	128	297364	8.209	ng	100
37) 2-Methylnaphthalene	8.87	142	69860	2.945	ng	97
48) Acenaphthylene	9.77	152	549305	16.946	ng	99
49) Dimethylphthalate	9.62	163	127517	5.196	ng	99
54) Dibenzofuran	10.12	168	172926	6.330	ng	97
57) Fluorene	10.46	166	384945	19.366	ng	99
70) Phenanthrene	11.44	178	1939735	75.511	ng	99
71) Anthracene	11.49	178	840358	32.164	ng	99
72) Carbazole	11.63	167	132068	5.160	ng	99
74) Fluoranthene	12.64	202	2812391	108.817	ng	99
77) Pyrene	12.87	202	2192027	117.599	ng	99
80) Benzo(a)anthracene	14.05	228	1460707m	97.710	ng	
82) Chrysene	14.09	228	1316607m	87.367	ng	
85) Indeno(1,2,3-cd)pyrene	17.07	276	664272	53.148	ng	95
87) Benzo(b)fluoranthene	15.12	252	1770933m	95.678	ng	
88) Benzo(k)fluoranthene	15.14	252	549534m	31.073	ng	
89) Benzo(a)pyrene	15.50	252	1207871	72.499	ng	95
90) Dibenzo(a,h)anthracene	17.07	278	198666m	14.691	ng	
91) Benzo(g,h,i)perylene	17.53	276	586657	44.323	ng	96

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

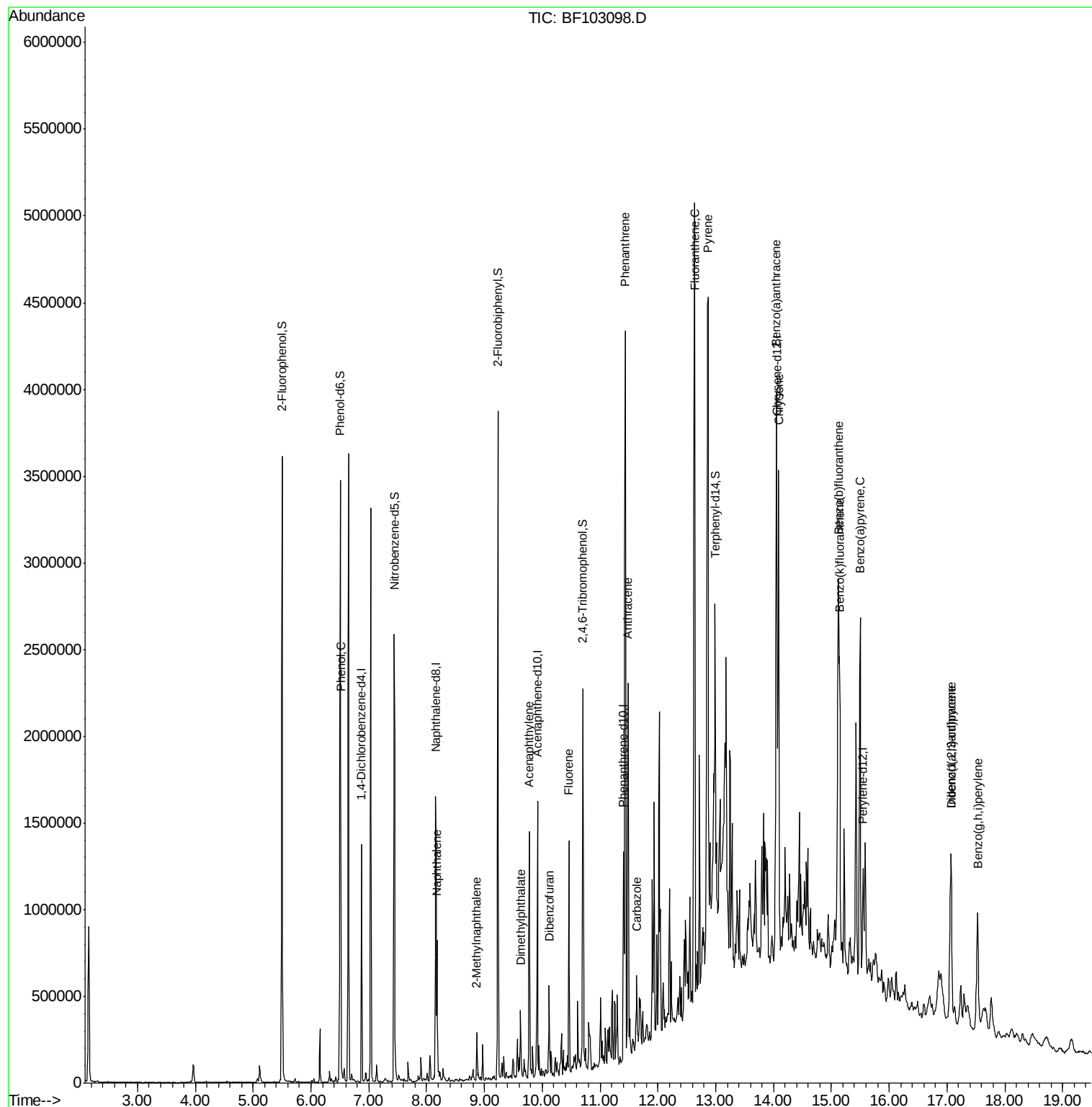
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_F\DATA\BF021918\
Data File : BF103098.D
Acq On : 19 Feb 2018 23:09
Operator : SJ/JU
Sample : J1600-08
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:53 AM

Quant Time: Feb 20 01:20:10 2018
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 16 14:34:49 2018
Response via : Initial Calibration





#1

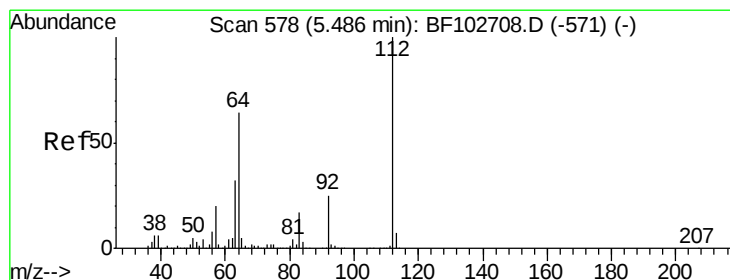
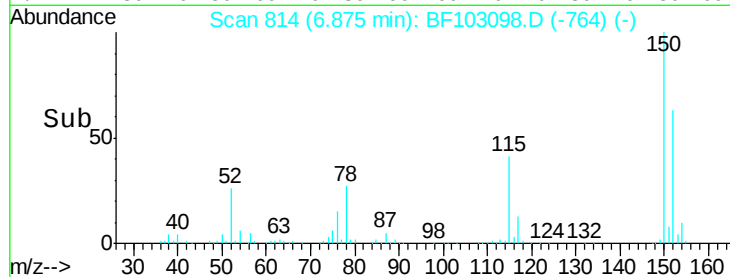
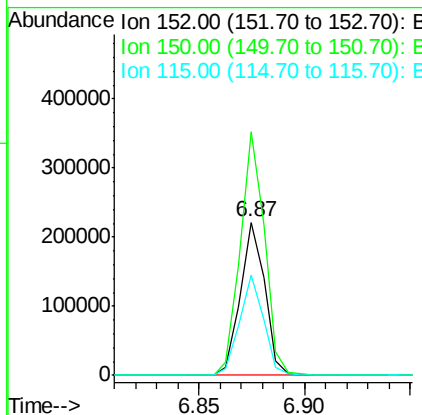
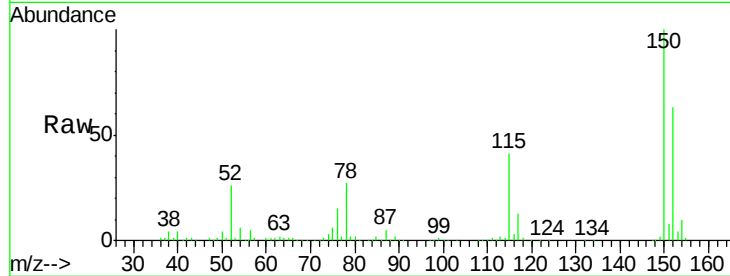
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Tgt	Ion	Ratio	Lower	Upper
152	100			
150	158.7	124.6	186.8	
115	65.3	50.1	75.1	

Manual Integrations
APPROVED

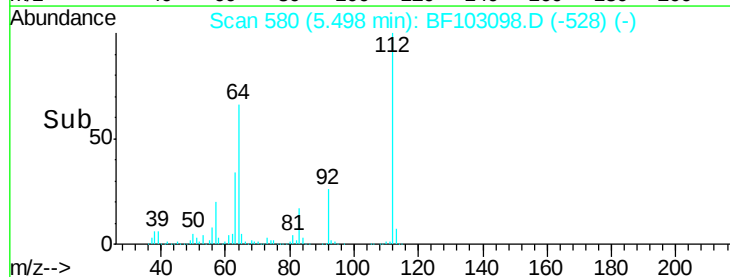
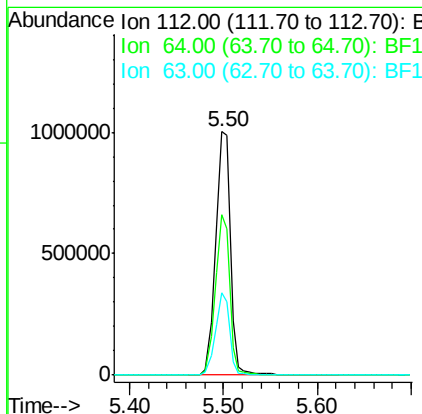
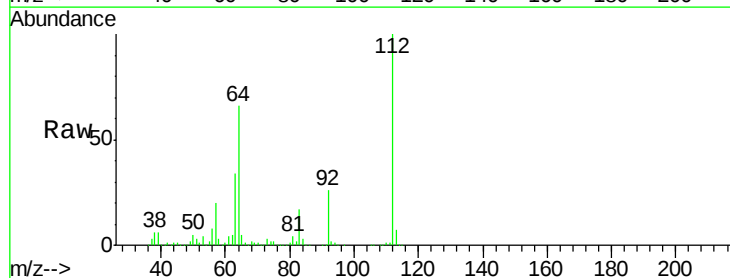
Sohil
2/20/2018 10:20:53 AM

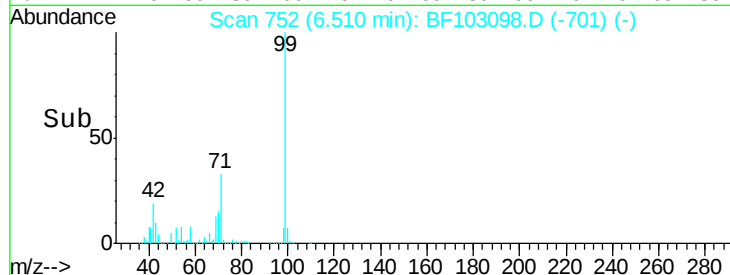
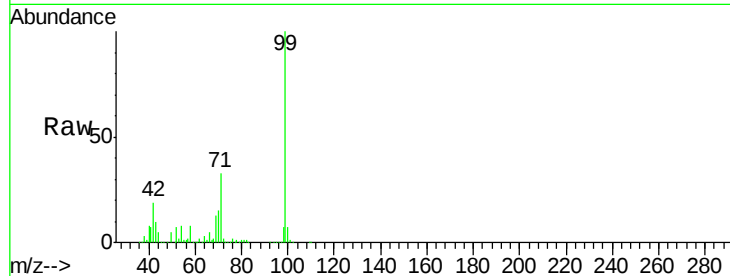


#5

2-Fluorophenol
Concen: 96.448 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt	Ion	Ratio	Lower	Upper
112	100			
64	66.1	47.9	71.9	
63	33.8	23.7	35.5	





#7

Phenol-d6

Concen: 96.024 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Tgt Ion: 99 Resp: 1348448

Ion Ratio Lower Upper

99 100

42 19.2 14.5 21.7

71 33.3 25.4 38.0

Instrument :

BNA_F

ClientSampleId :

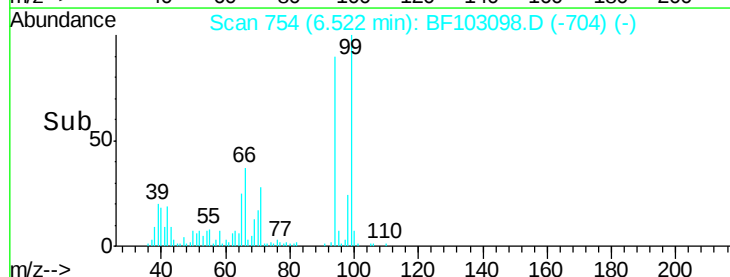
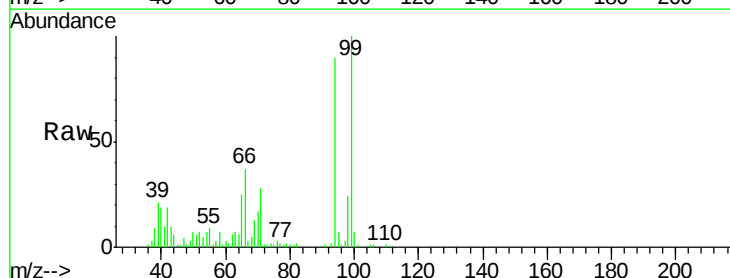
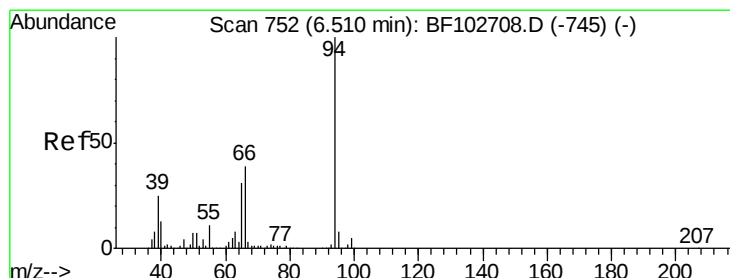
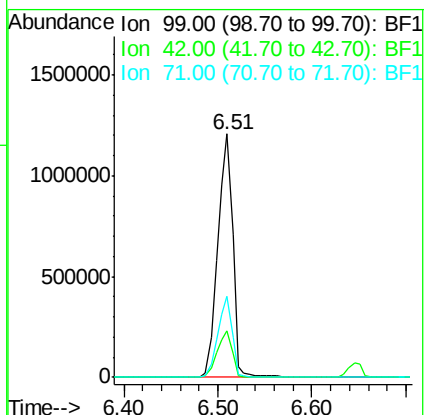
A2 SB44 BOT-S_8

Manual Integrations

APPROVED

Sohil

2/20/2018 10:20:53 AM



#10

Phenol

Concen: 2.063 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

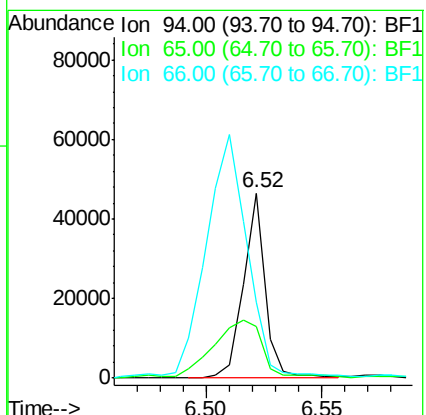
Tgt Ion: 94 Resp: 31045

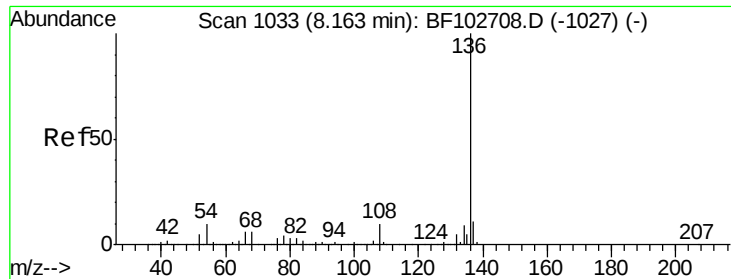
Ion Ratio Lower Upper

94 100

65 28.0 7.9 47.9

66 40.9 16.2 56.2





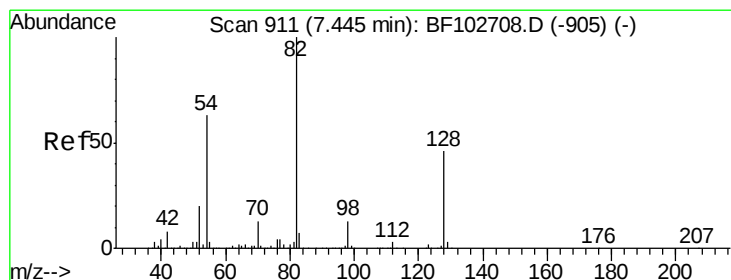
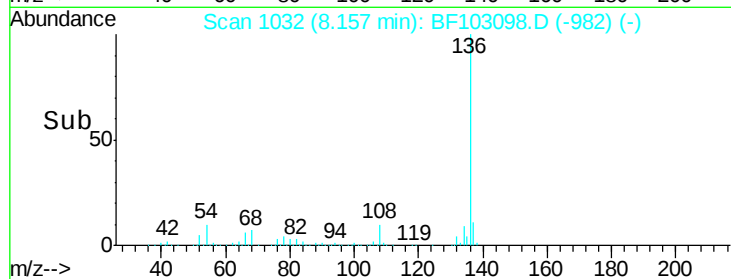
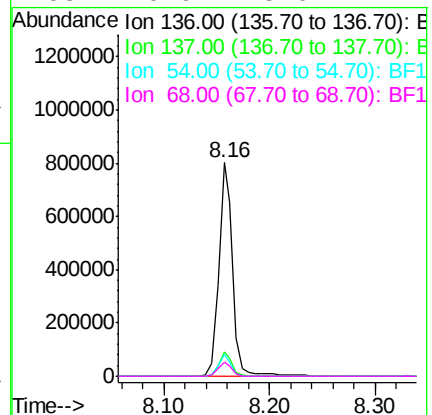
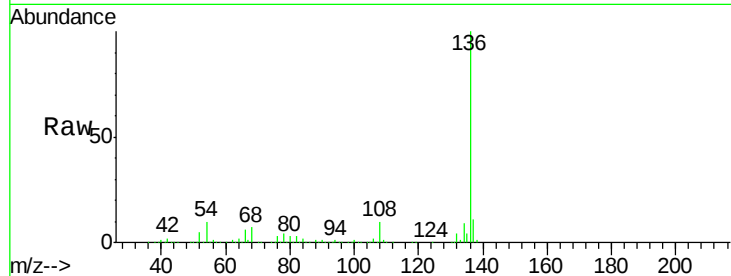
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	741460		
137	11.1	8.9	13.3	
54	10.2	6.6	9.8	
68	6.9	5.0	7.4	

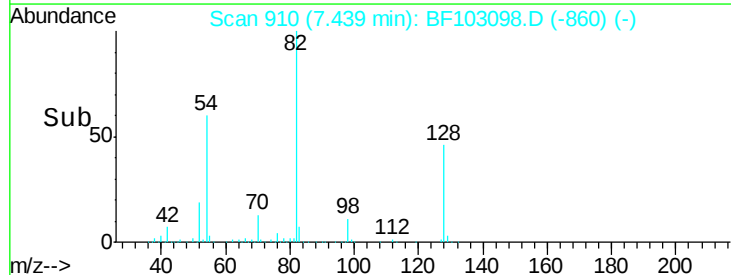
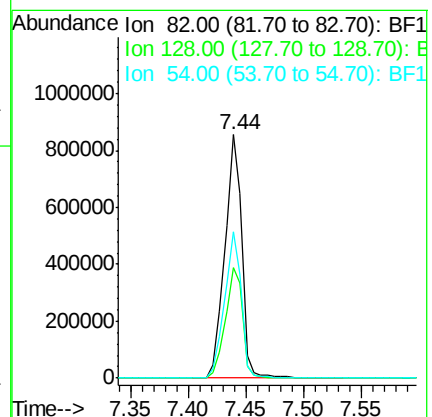
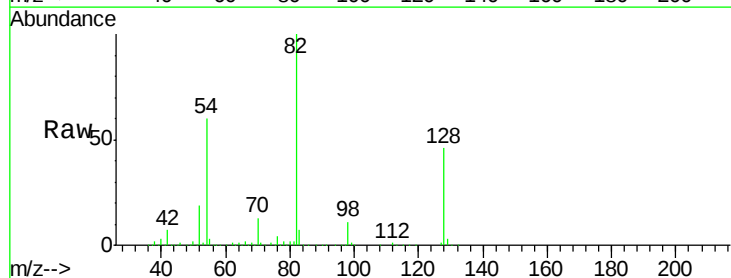
Manual Integrations
APPROVED

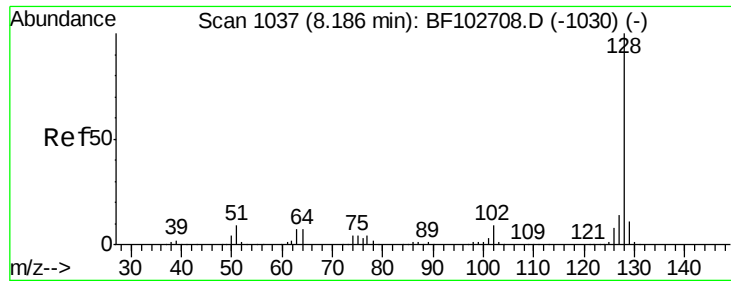
Sohil
2/20/2018 10:20:53 AM



#23
Nitrobenzene-d5
Concen: 82.004 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	876491		
128	45.5	36.1	54.1	
54	59.8	41.4	62.2	





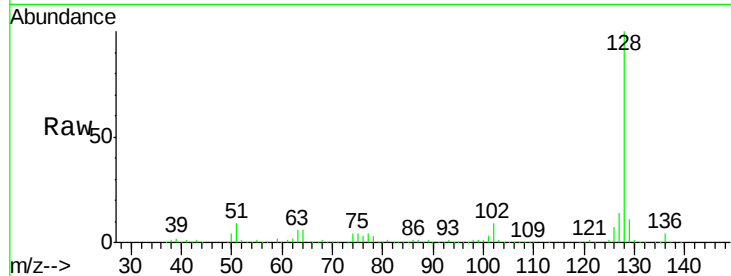
#31
Naphthalene
Concen: 8.209 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

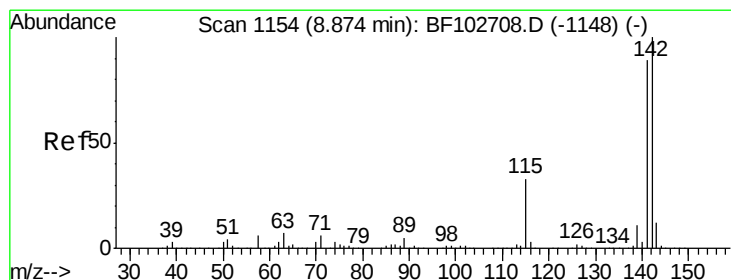
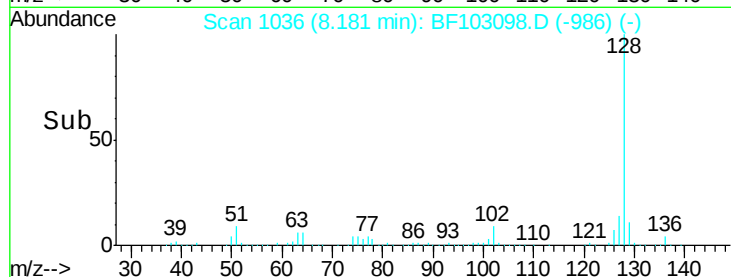
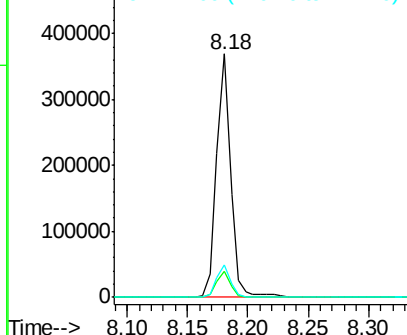
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	297364		
129	10.8	8.8	13.2	
127	13.5	10.9	16.3	

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:53 AM

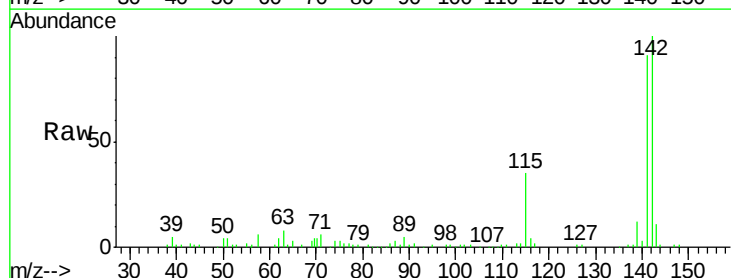


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

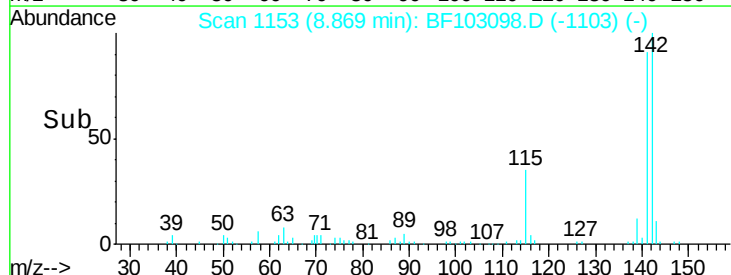
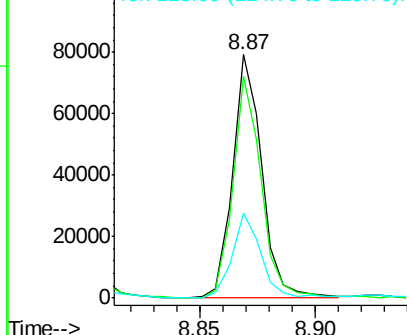


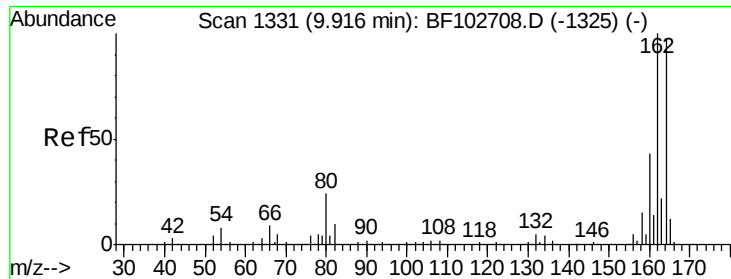
#37
2-Methylnaphthalene
Concen: 2.945 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	69860		
141	91.4	70.8	106.2	
115	34.7	26.1	39.1	



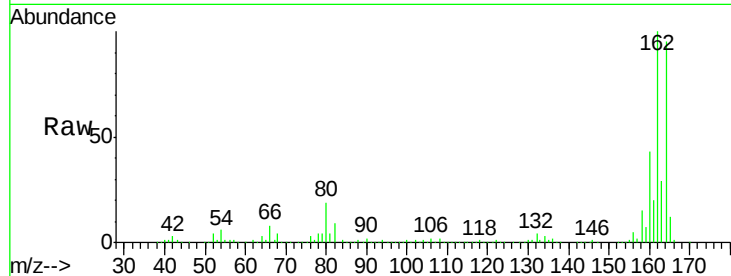
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

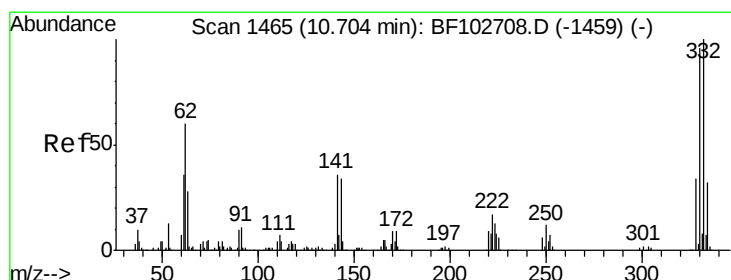
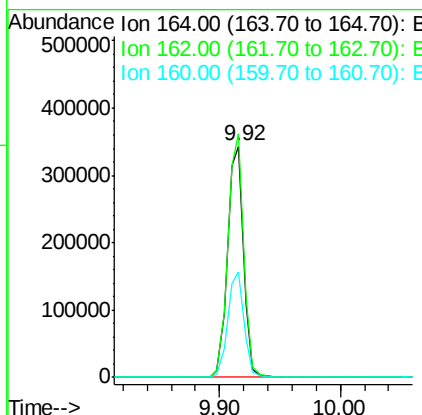
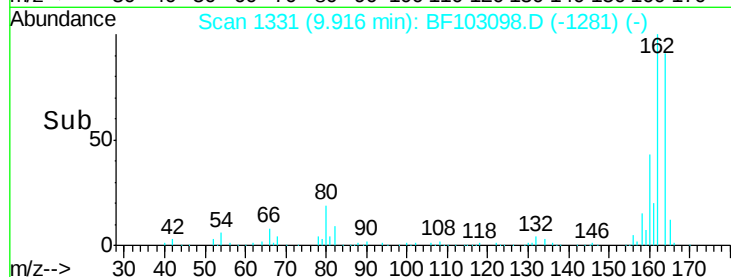
Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8



Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.4	314747	86.1	129.1
160	45.6		38.3	57.5

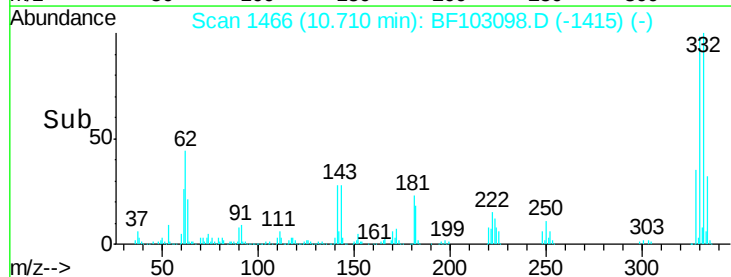
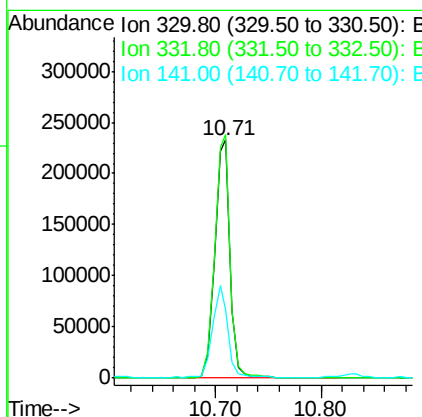
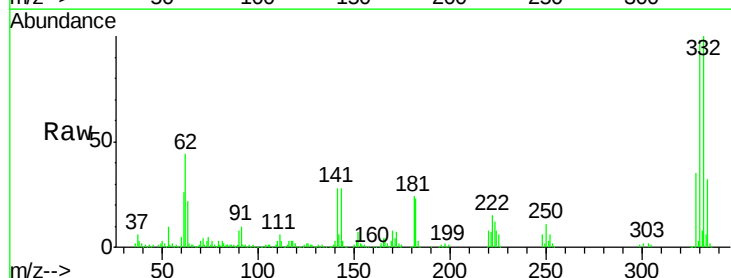
Manual Integrations
APPROVED

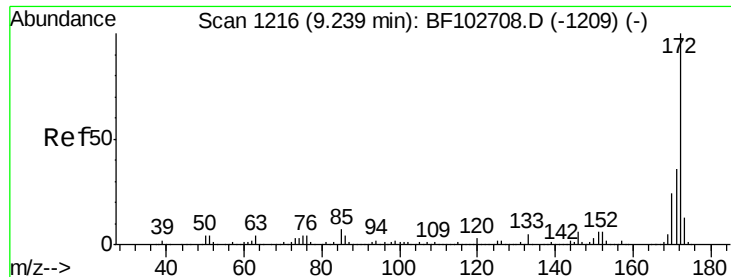
Sohil
2/20/2018 10:20:53 AM



#41
2,4,6-Tribromophenol
Concen: 94.755 ng
RT: 10.71 min Scan# 1466
Delta R.T. -0.00 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	240047		
332	102.5		77.0	115.6
141	38.2		29.9	44.9





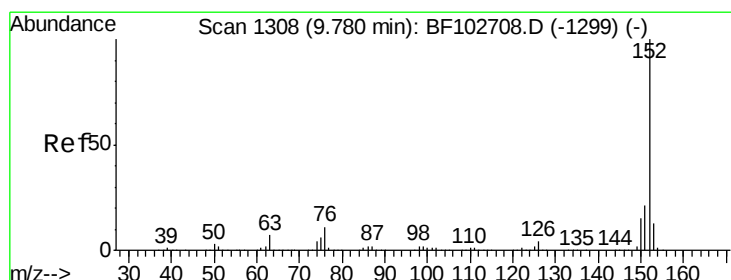
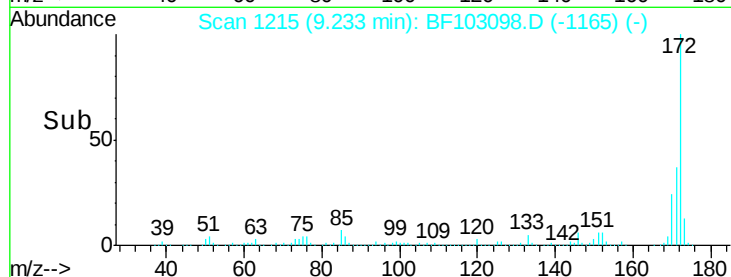
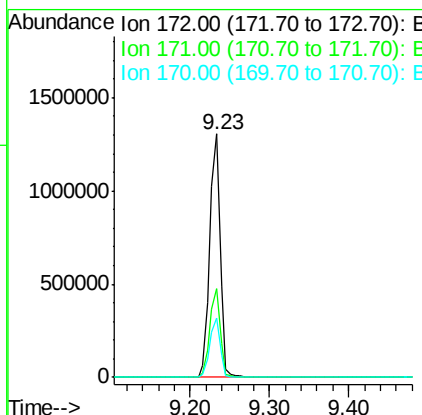
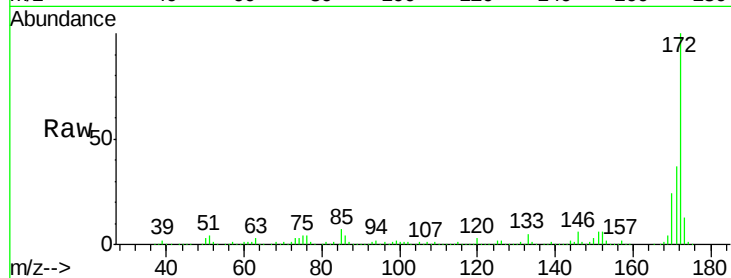
#44
2-Fluorobiphenyl
Concen: 63.354 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.7	44.5
170	24.3	19.6	29.4

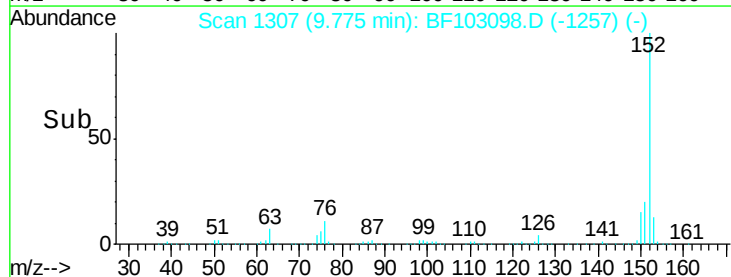
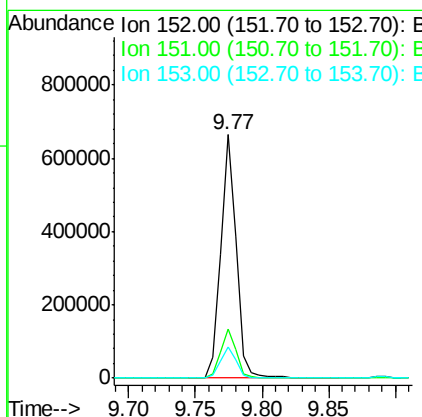
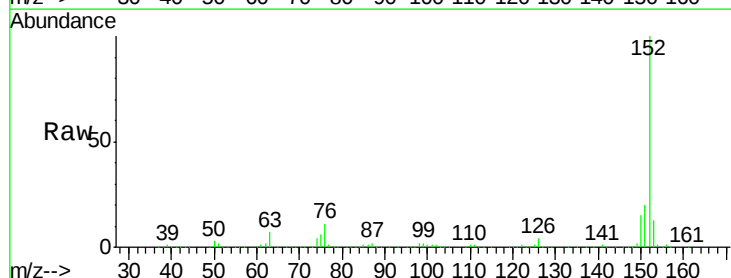
Manual Integrations
APPROVED

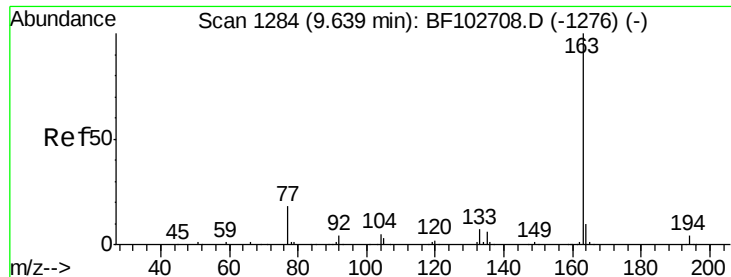
Sohil
2/20/2018 10:20:53 AM



#48
Acenaphthylene
Concen: 16.946 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.3	24.5
153	12.8	10.7	16.1





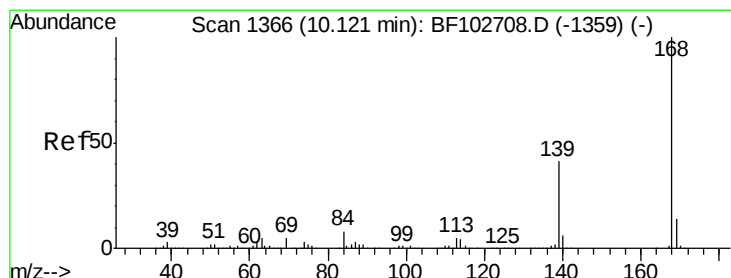
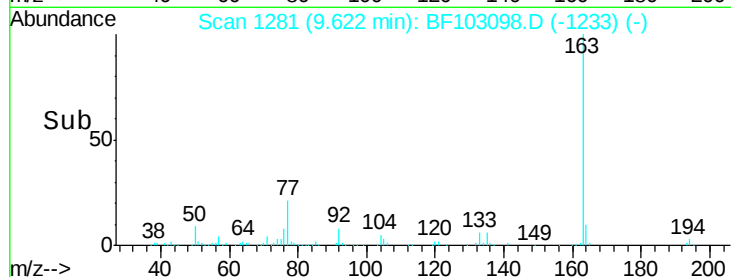
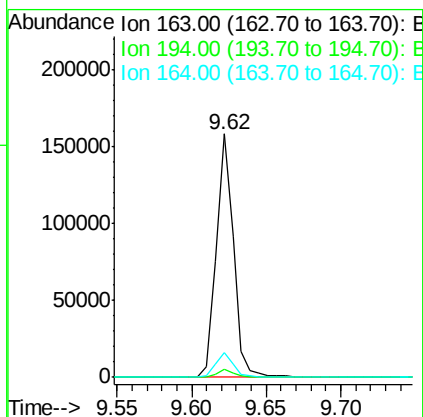
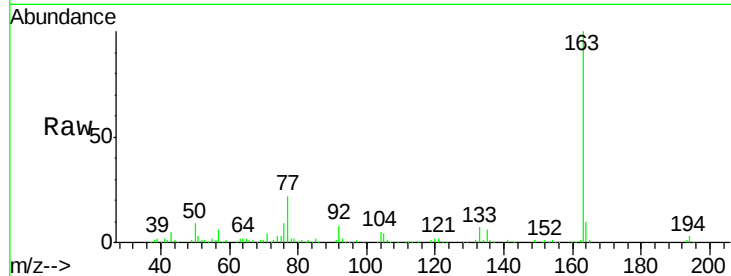
#49
Dimethylphthalate
Concen: 5.196 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.02 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.3	2.7	4.1
164	9.9	8.2	12.2

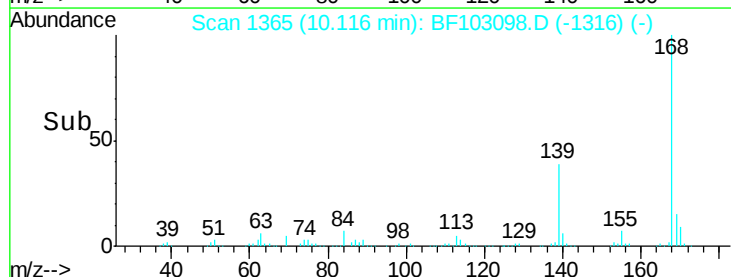
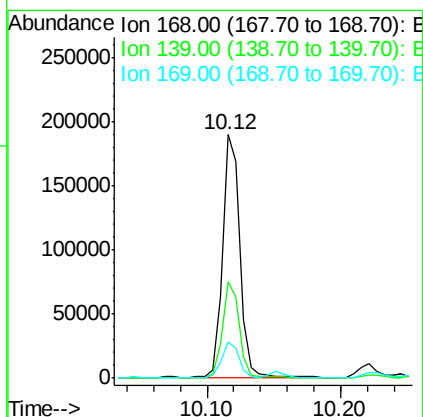
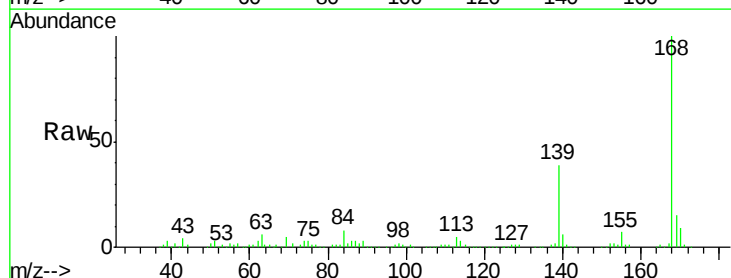
Manual Integrations
APPROVED

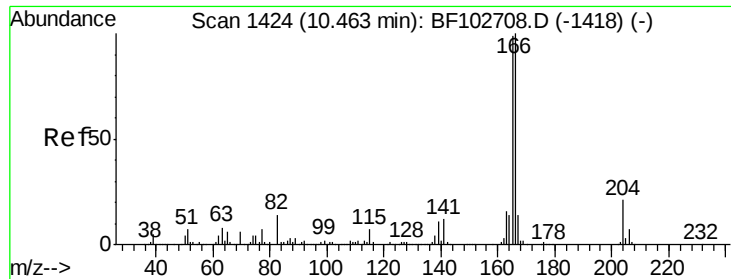
Sohil
2/20/2018 10:20:53 AM



#54
Dibenzofuran
Concen: 6.330 ng
RT: 10.12 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
168	100		
139	39.3	30.1	45.1
169	14.9	10.9	16.3





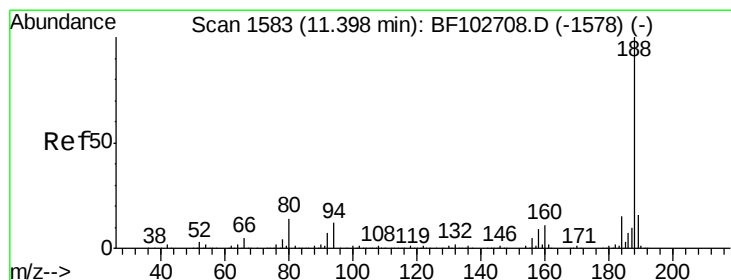
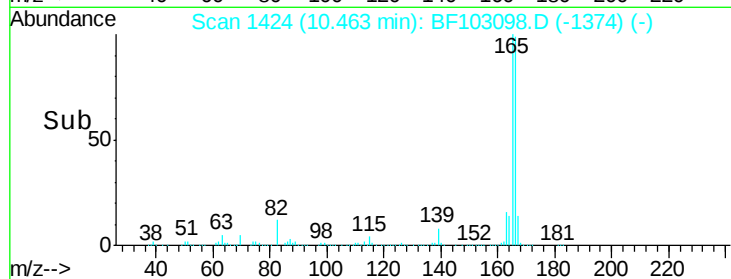
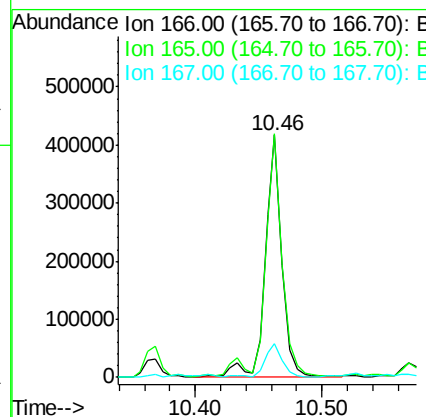
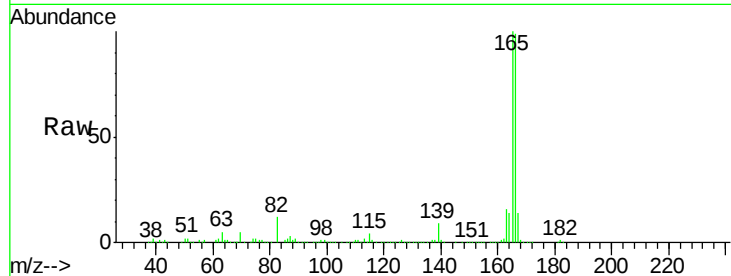
#57
Fluorene
 Concen: 19.366 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF103098.D
 Acq: 19 Feb 2018 23:09

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB44 BOT-S 8

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	384945		
165	100.6	79.8	119.8	
167	13.9	10.6	16.0	

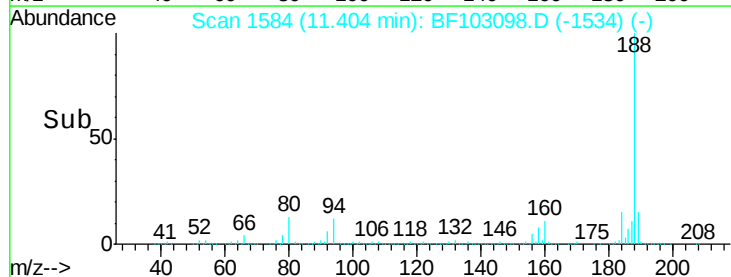
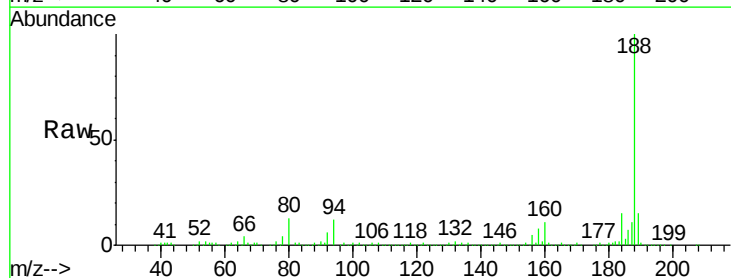
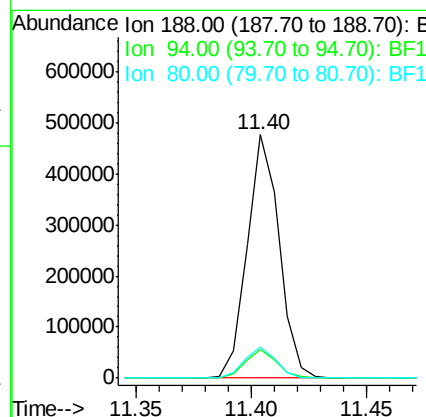
Manual Integrations
 APPROVED

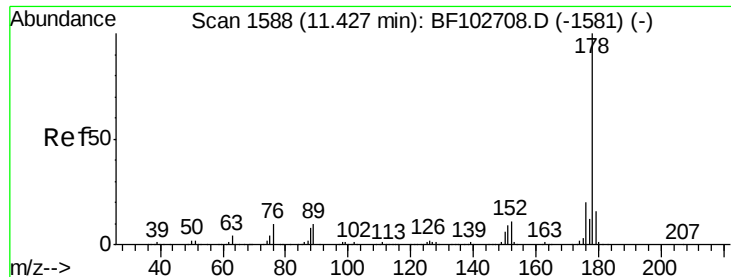
Sohil
 2/20/2018 10:20:53 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF103098.D
 Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	461239		
94	11.8	8.5	12.7	
80	12.8	9.2	13.8	





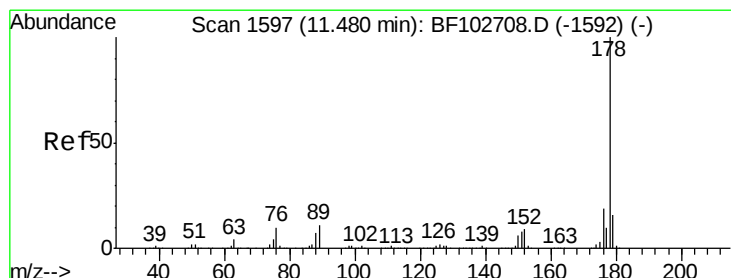
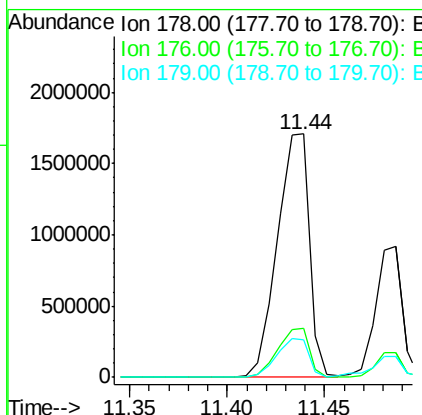
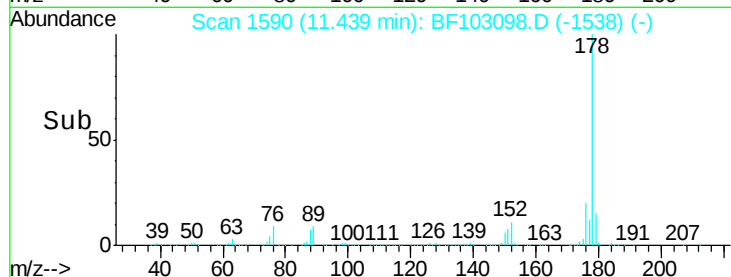
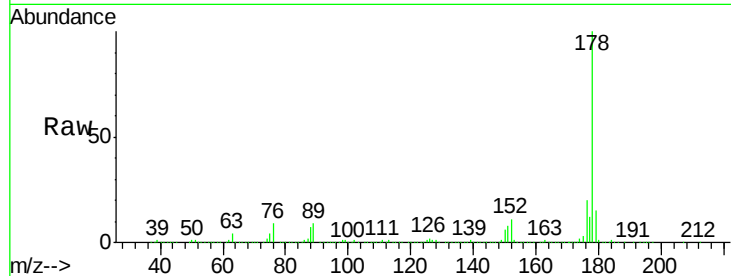
#70
Phenanthrene
Concen: 75.511 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Tgt Ion:178 Resp: 1939735
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.8
179 15.4 13.0 19.6

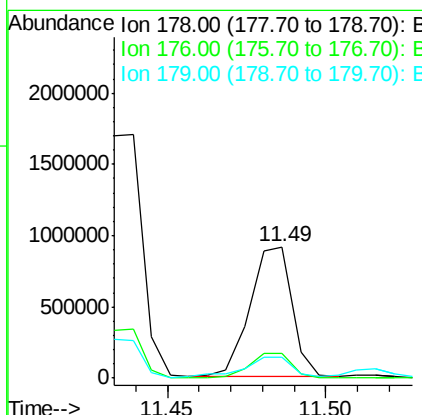
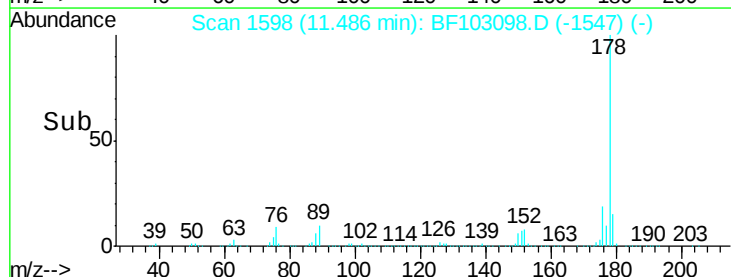
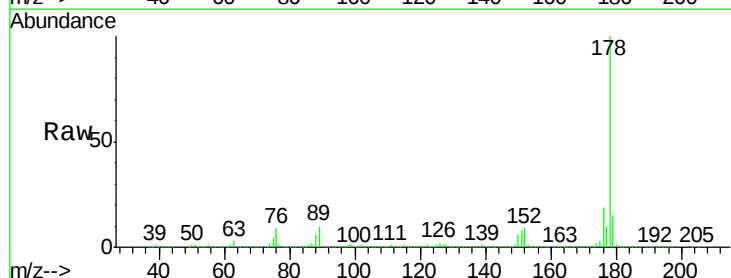
Manual Integrations
APPROVED

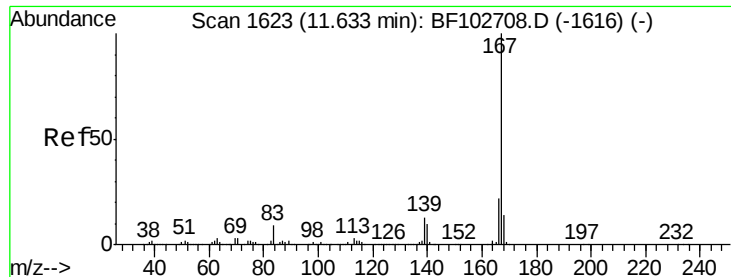
Sohil
2/20/2018 10:20:53 AM



#71
Anthracene
Concen: 32.164 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.00 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion:178 Resp: 840358
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.5 12.6 19.0





#72

Carbazole

Concen: 5.160 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Instrument :

BNA_F

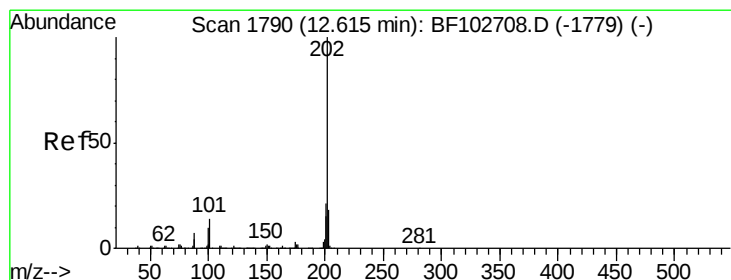
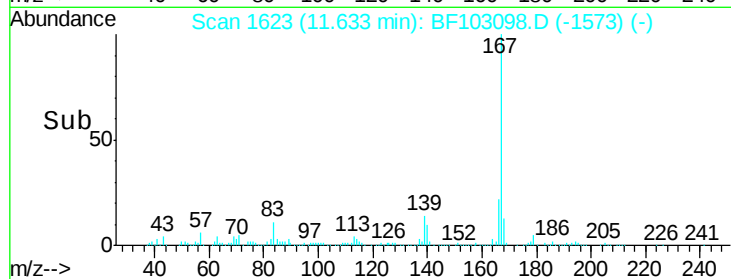
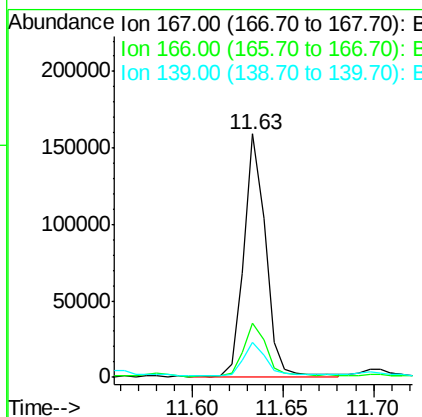
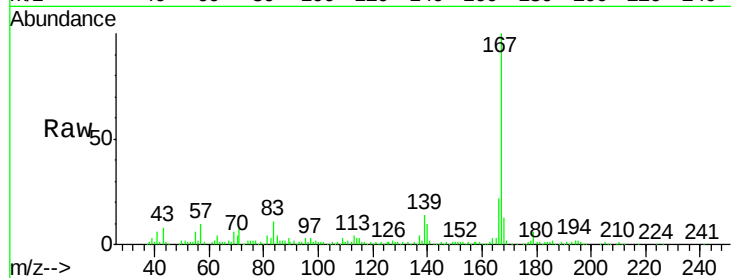
ClientSampleId :

A2 SB44 BOT-S 8

Tgt Ion:	167	Resp:	132068
Ion Ratio		Lower	Upper
167	100		
166	22.5	17.6	26.4
139	14.2	10.9	16.3

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:53 AM



#74

Fluoranthene

Concen: 108.817 ng

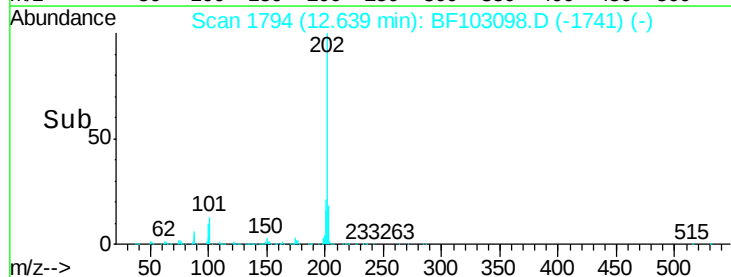
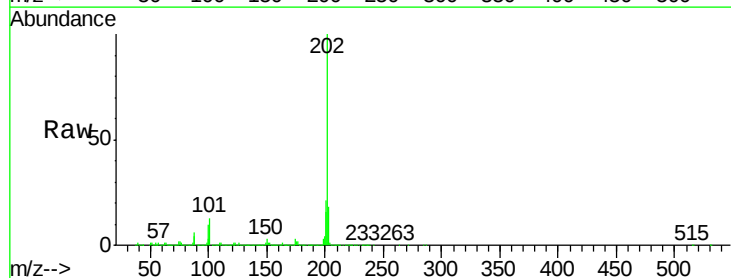
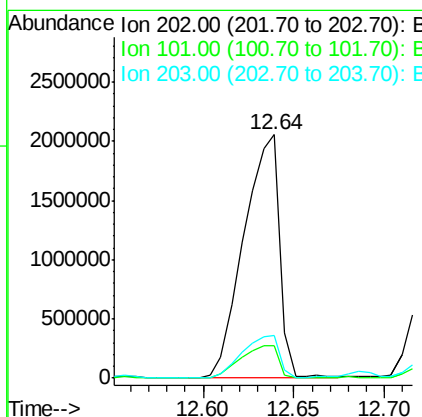
RT: 12.64 min Scan# 1794

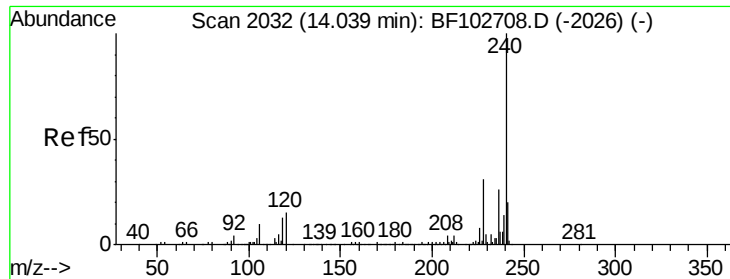
Delta R.T. 0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Tgt Ion:	202	Resp:	2812391
Ion Ratio		Lower	Upper
202	100		
101	13.3	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Instrument :

BNA_F

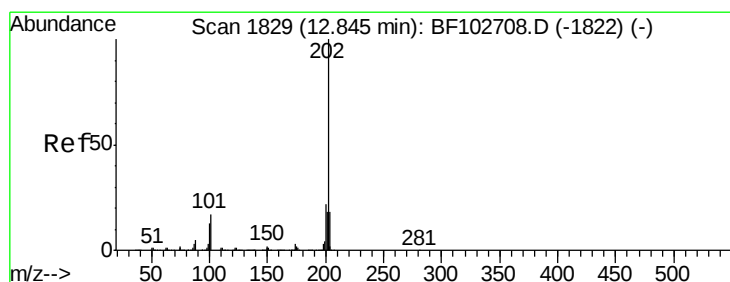
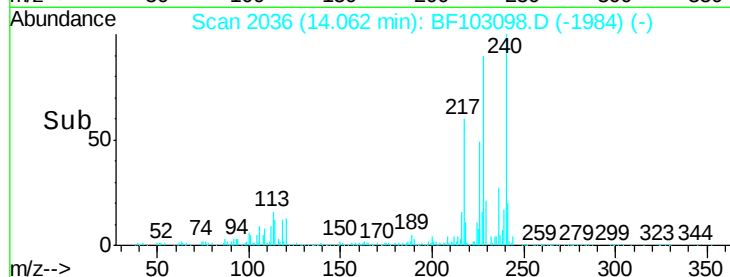
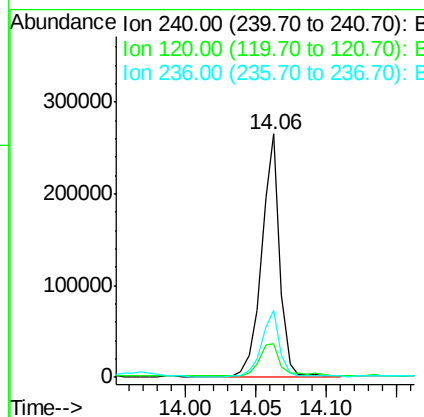
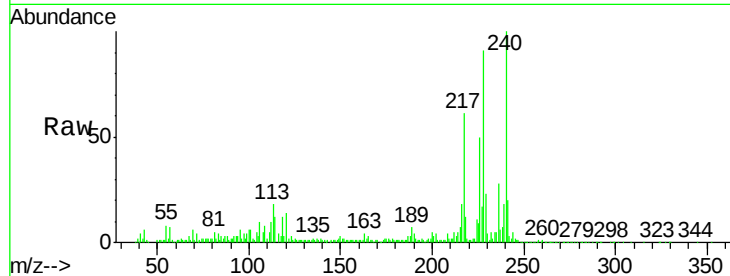
ClientSampleId :

A2 SB44 BOT-S 8

Tgt Ion:	240	Resp:	237705
Ion Ratio	Lower	Upper	
240	100		
120	13.9	9.5	14.3
236	27.6	20.7	31.1

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:53 AM



#77

Pyrene

Concen: 117.599 ng

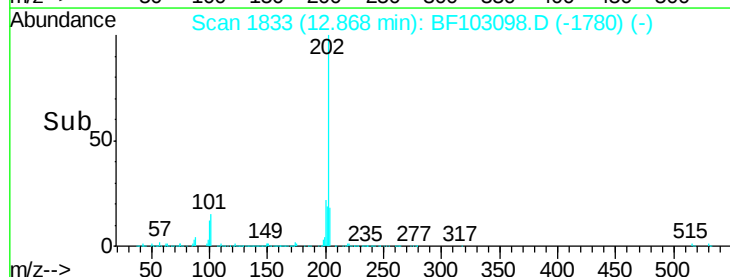
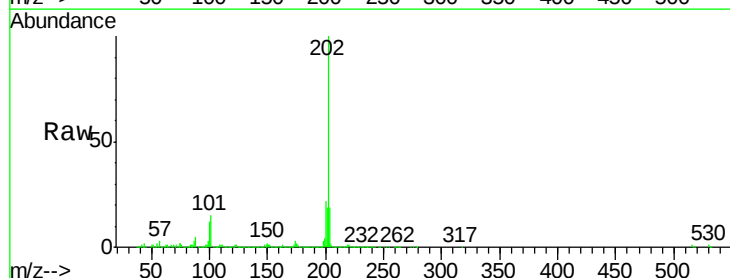
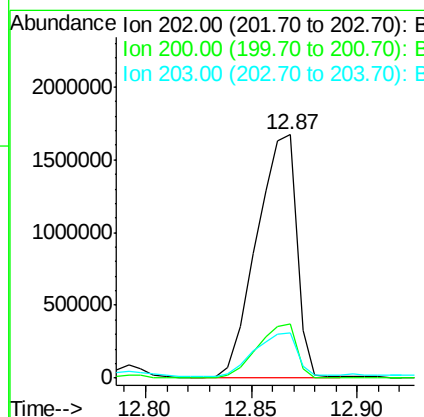
RT: 12.87 min Scan# 1833

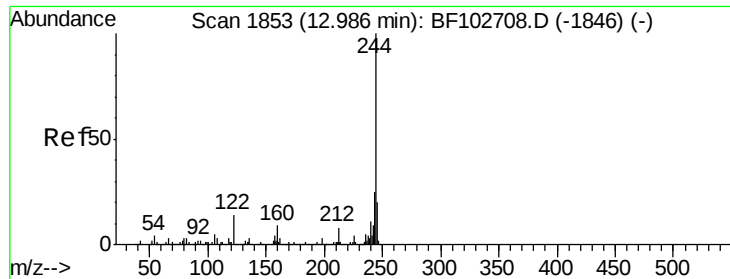
Delta R.T. 0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Tgt Ion:	202	Resp:	2192027
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.4	26.2
203	18.6	14.3	21.5





#78

Terphenyl-d14

Concen: 70.996 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.00 min

Lab File: BF103098.D

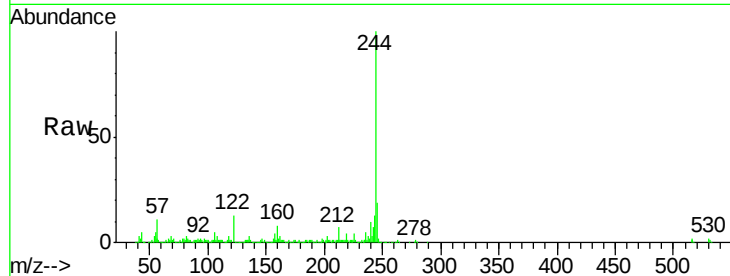
Acq: 19 Feb 2018 23:09

Instrument :

BNA_F

ClientSampleId :

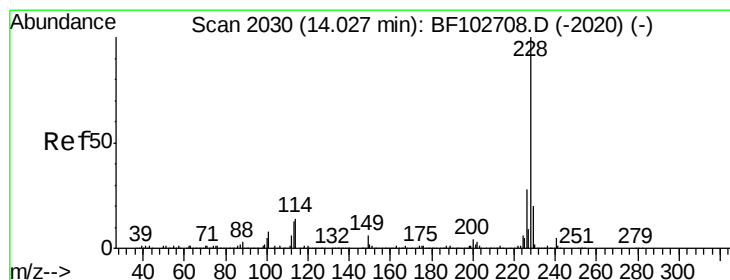
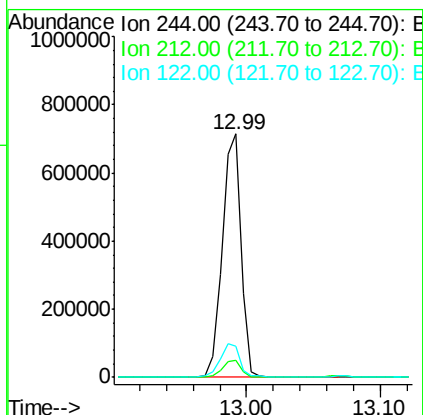
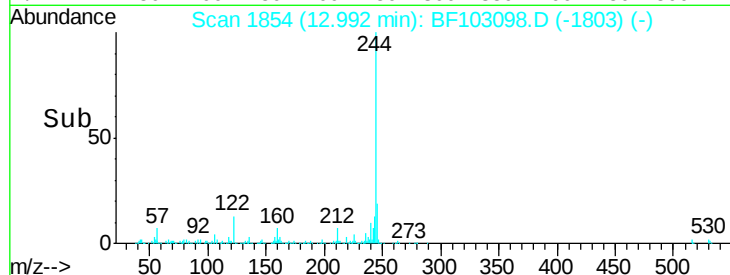
A2 SB44 BOT-S 8



Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	12.9	11.0	16.4

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:53 AM



#80

Benzo(a)anthracene

Concen: 97.710 ng m

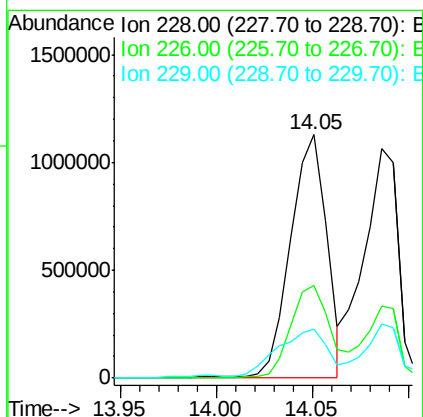
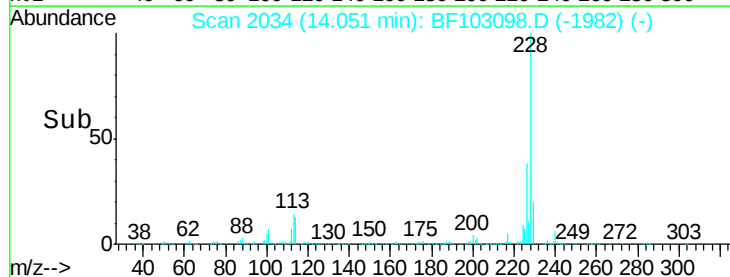
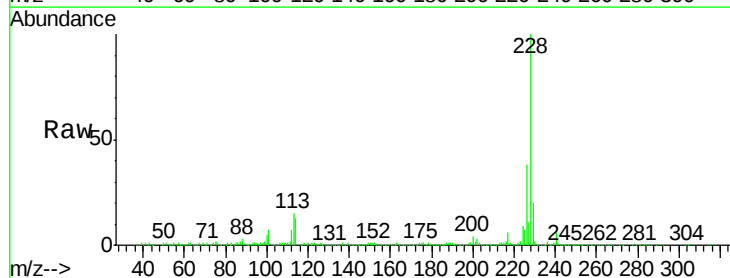
RT: 14.05 min Scan# 2034

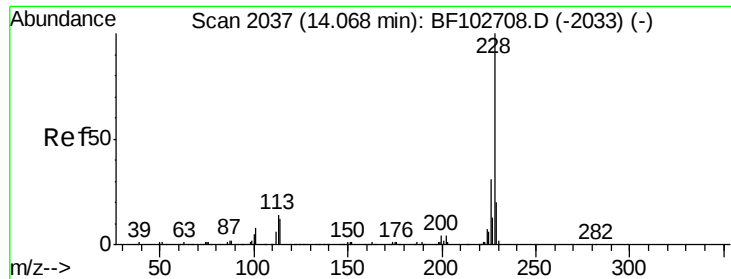
Delta R.T. 0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.0	22.6	33.8#
229	20.4	15.8	23.6





#82

Chrysene

Concen: 87.367 ng m

RT: 14.09 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Instrument :

BNA_F

ClientSampleId :

A2 SB44 BOT-S 8

Tgt Ion:228 Resp: 1316607

Ion Ratio Lower Upper

228 100

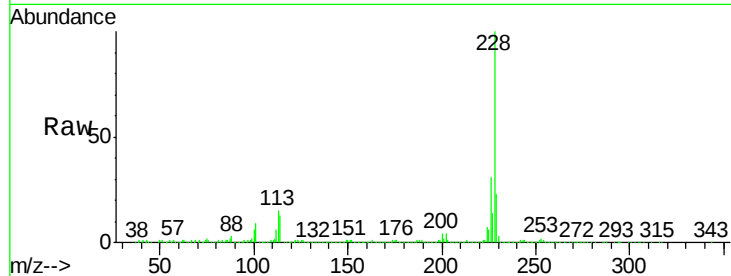
226 31.1 25.0 37.6

229 23.5 16.2 24.4

Manual Integrations
APPROVED

Sohil

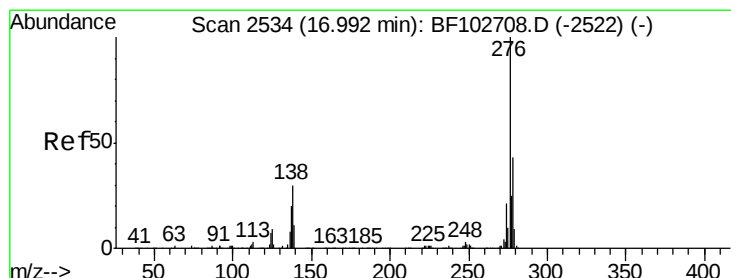
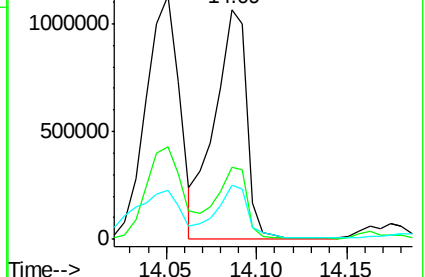
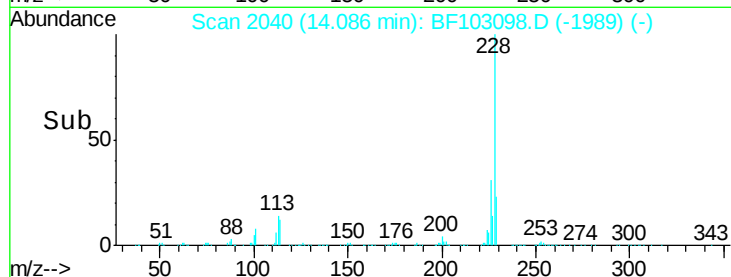
2/20/2018 10:20:53 AM



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: 53.148 ng

RT: 17.07 min Scan# 2548

Delta R.T. 0.02 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

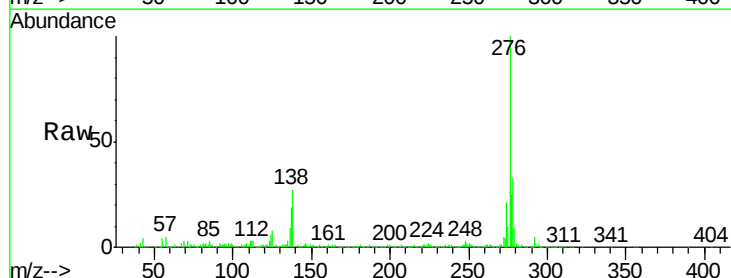
Tgt Ion:276 Resp: 664272

Ion Ratio Lower Upper

276 100

138 26.9 25.0 37.6

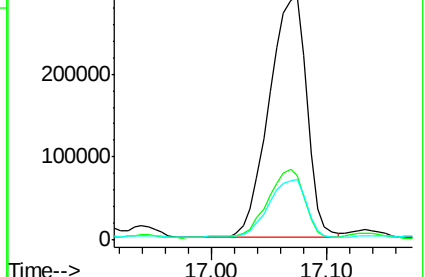
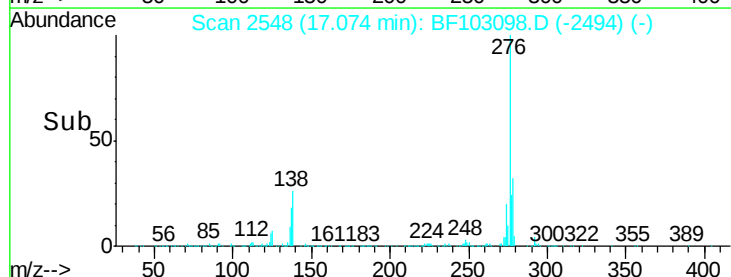
277 24.1 20.1 30.1

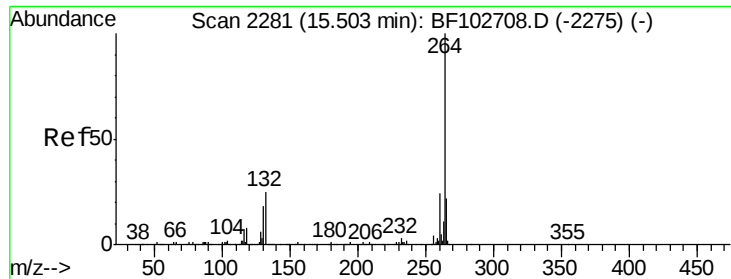


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





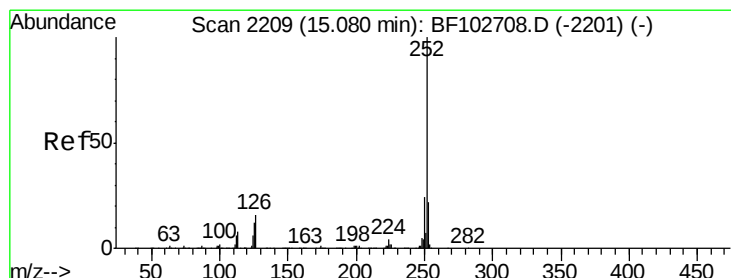
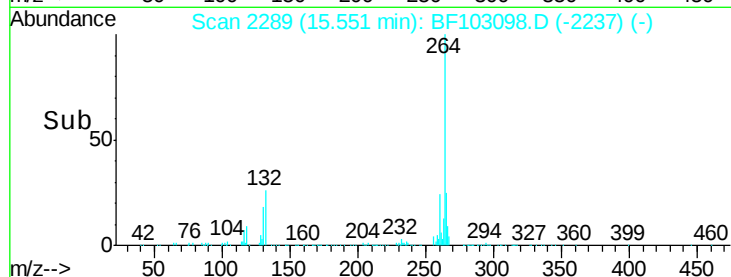
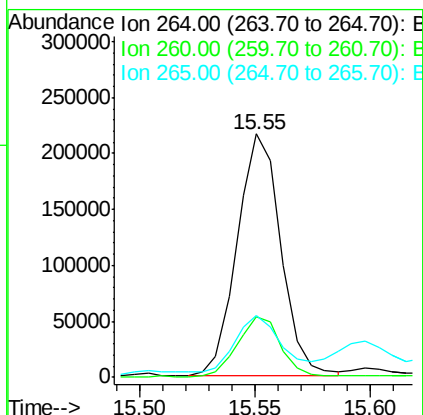
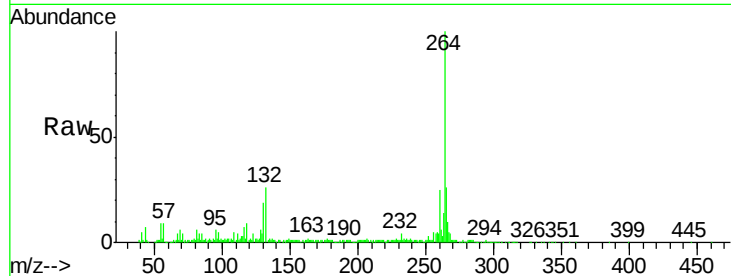
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.55 min Scan# 2289
Delta R.T. 0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	25.6	17.5	26.3

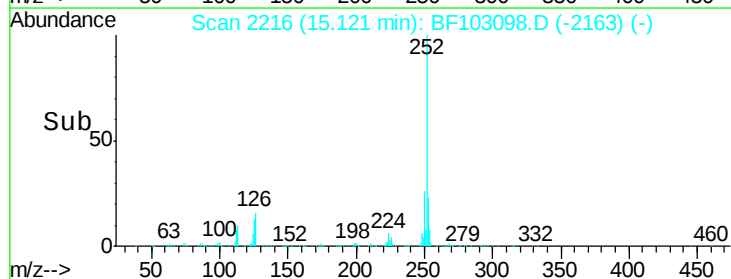
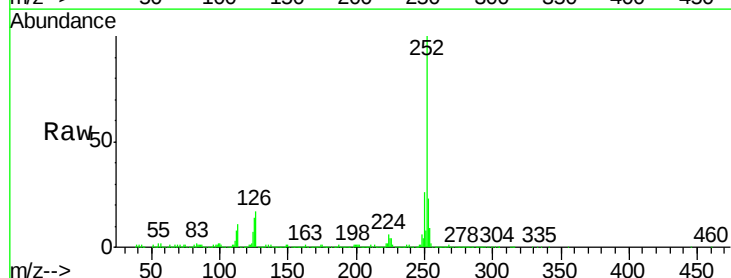
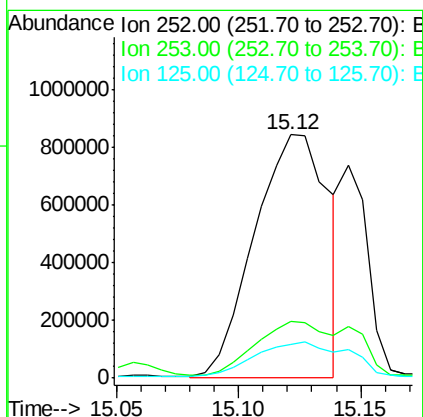
Manual Integrations
APPROVED

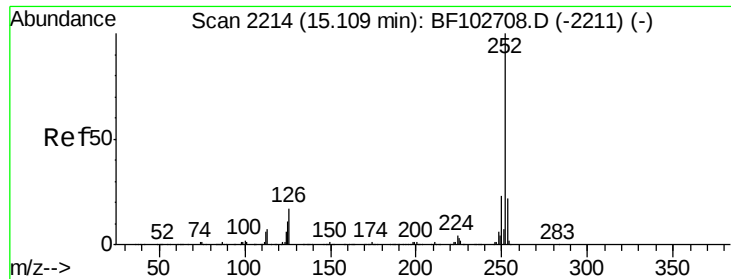
Sohil
2/20/2018 10:20:53 AM



#87
Benzo(b)fluoranthene
Concen: 95.678 ng m
RT: 15.12 min Scan# 2216
Delta R.T. 0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	14.0	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 31.073 ng m

RT: 15.14 min Scan# 2220

Delta R.T. 0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Instrument :

BNA_F

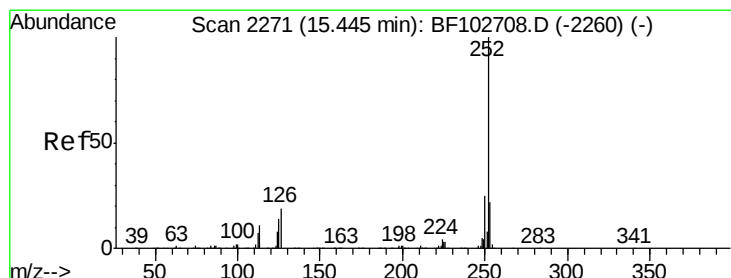
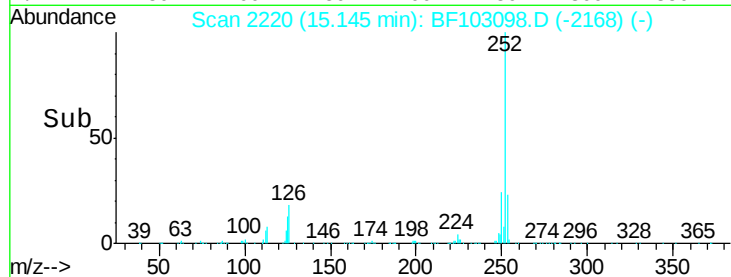
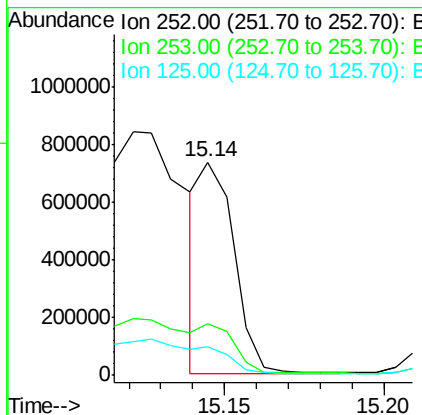
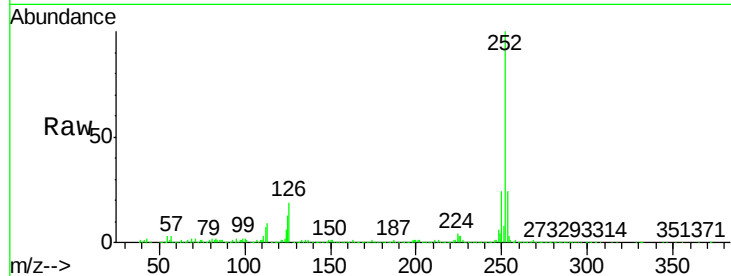
ClientSampleId :

A2 SB44 BOT-S 8

Tgt Ion:	252	Resp:	549534
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.9	26.9
125	13.5	10.2	15.2

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:53 AM



#89

Benzo(a)pyrene

Concen: 72.499 ng

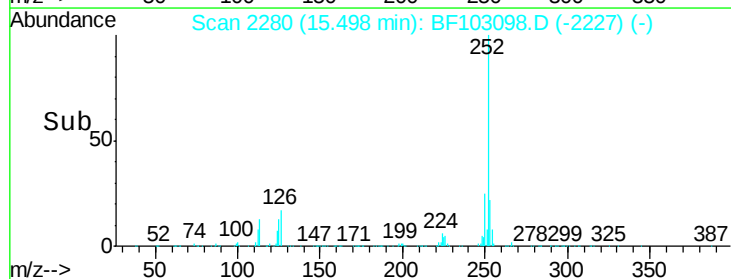
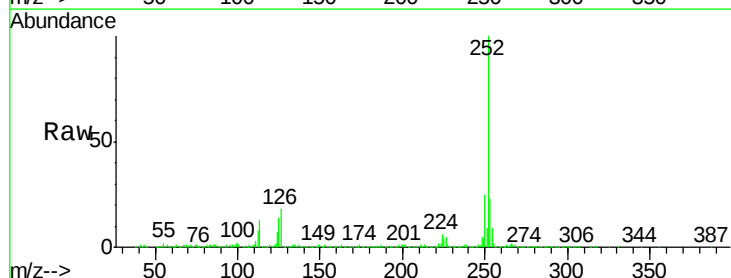
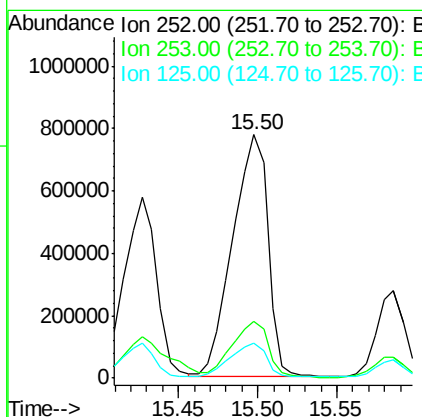
RT: 15.50 min Scan# 2280

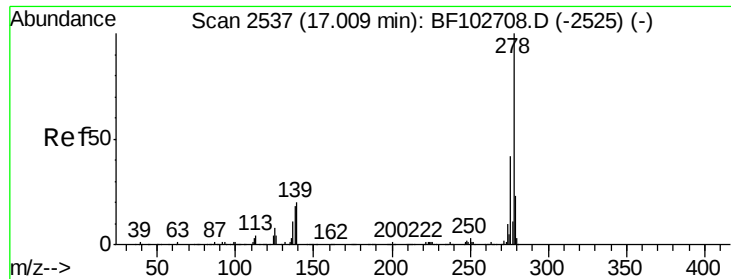
Delta R.T. 0.01 min

Lab File: BF103098.D

Acq: 19 Feb 2018 23:09

Tgt Ion:	252	Resp:	1207871
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.1	25.7
125	14.2	9.8	14.6





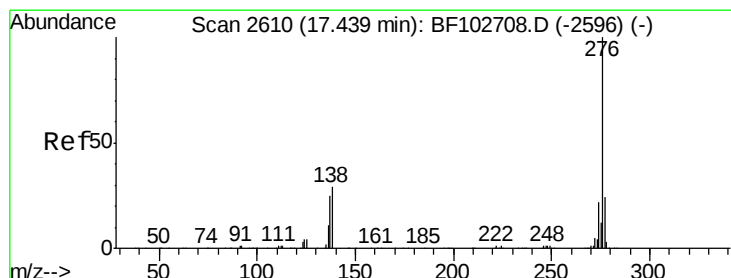
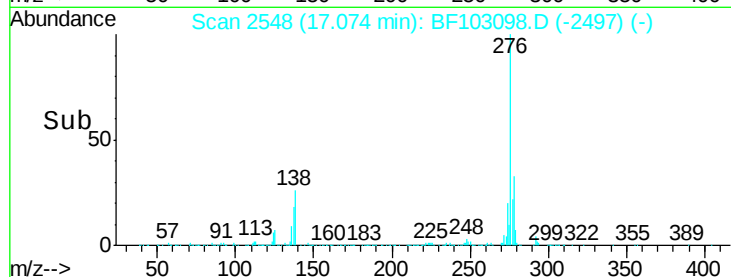
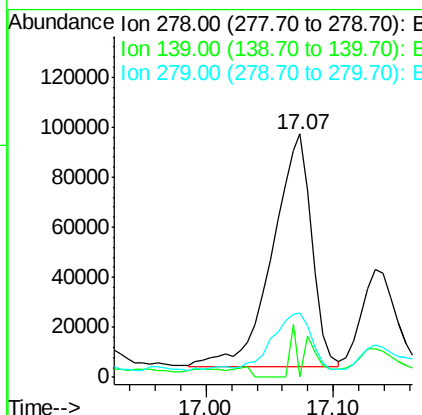
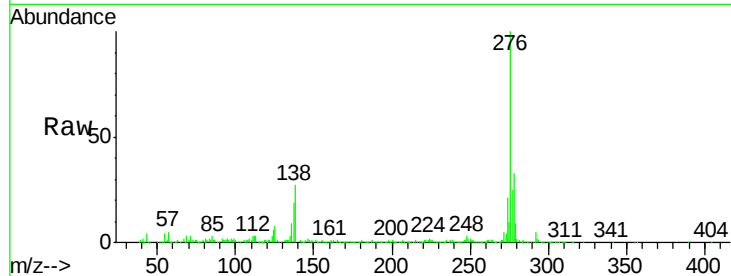
#90
Dibenzo(a,h)anthracene
Concen: 14.691 ng m
RT: 17.07 min Scan# 2548
Delta R.T. -0.00 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Instrument :
BNA_F
ClientSampleId :
A2 SB44 BOT-S 8

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	26.4	19.0	28.4

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:53 AM



#91
Benzo(g,h,i)perylene
Concen: 44.323 ng
RT: 17.53 min Scan# 2626
Delta R.T. 0.01 min
Lab File: BF103098.D
Acq: 19 Feb 2018 23:09

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	17.9	26.9
138	29.2	21.8	32.8

