

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
 Data File : BF102763.D
 Acq On : 6 Feb 2018 3:31
 Operator : SJ/JU
 Sample : J1447-06 20X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB71 E-N 8

Manual Integrations
 APPROVED

Sohil
 2/6/2018 2:26:14 PM

Quant Time: Feb 06 06:39:12 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	214654	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	859811	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	362944	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	541766	20.00	ng	0.00
75) Chrysene-d12	14.04	240	325474	20.00	ng	0.00
86) Perylene-d12	15.53	264	318028	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	81658	5.78	ng	-0.01
7) Phenol-d6	6.49	99	98469	5.79	ng	-0.02
23) Nitrobenzene-d5	7.43	82	56001	4.52	ng	-0.02
41) 2,4,6-Tribromophenol	10.70	330	15740	5.39	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	117077	5.35	ng	-0.01
78) Terphenyl-d14	12.99	244	71604	5.21	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.19	128	473860	11.280	ng	99
37) 2-Methylnaphthalene	8.87	142	83142	3.023	ng	99
48) Acenaphthylene	9.78	152	449651	12.029	ng	99
51) Acenaphthene	9.95	154	98726	4.416	ng	98
54) Dibenzofuran	10.12	168	153360	4.868	ng	99
57) Fluorene	10.46	166	227957	9.945	ng	100
70) Phenanthrene	11.43	178	1084014	35.927	ng	99
71) Anthracene	11.48	178	366582	11.945	ng	97
72) Carbazole	11.63	167	89726	2.984	ng	98
74) Fluoranthene	12.62	202	1328597	43.765	ng	99
77) Pyrene	12.85	202	1201026	47.058	ng	99
80) Benzo(a)anthracene	14.03	228	727097m	35.521	ng	
82) Chrysene	14.07	228	626457	30.360	ng	98
85) Indeno(1,2,3-cd)pyrene	17.02	276	332529	19.431	ng	95
87) Benzo(b)fluoranthene	15.09	252	867094m	42.053	ng	
88) Benzo(k)fluoranthene	15.12	252	320436m	16.265	ng	
89) Benzo(a)pyrene	15.47	252	656080	35.350	ng	97
90) Dibenzo(a,h)anthracene	17.02	278	90965m	6.038	ng	
91) Benzo(a,h,i)perylene	17.47	276	314180	21.308	ng	97

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

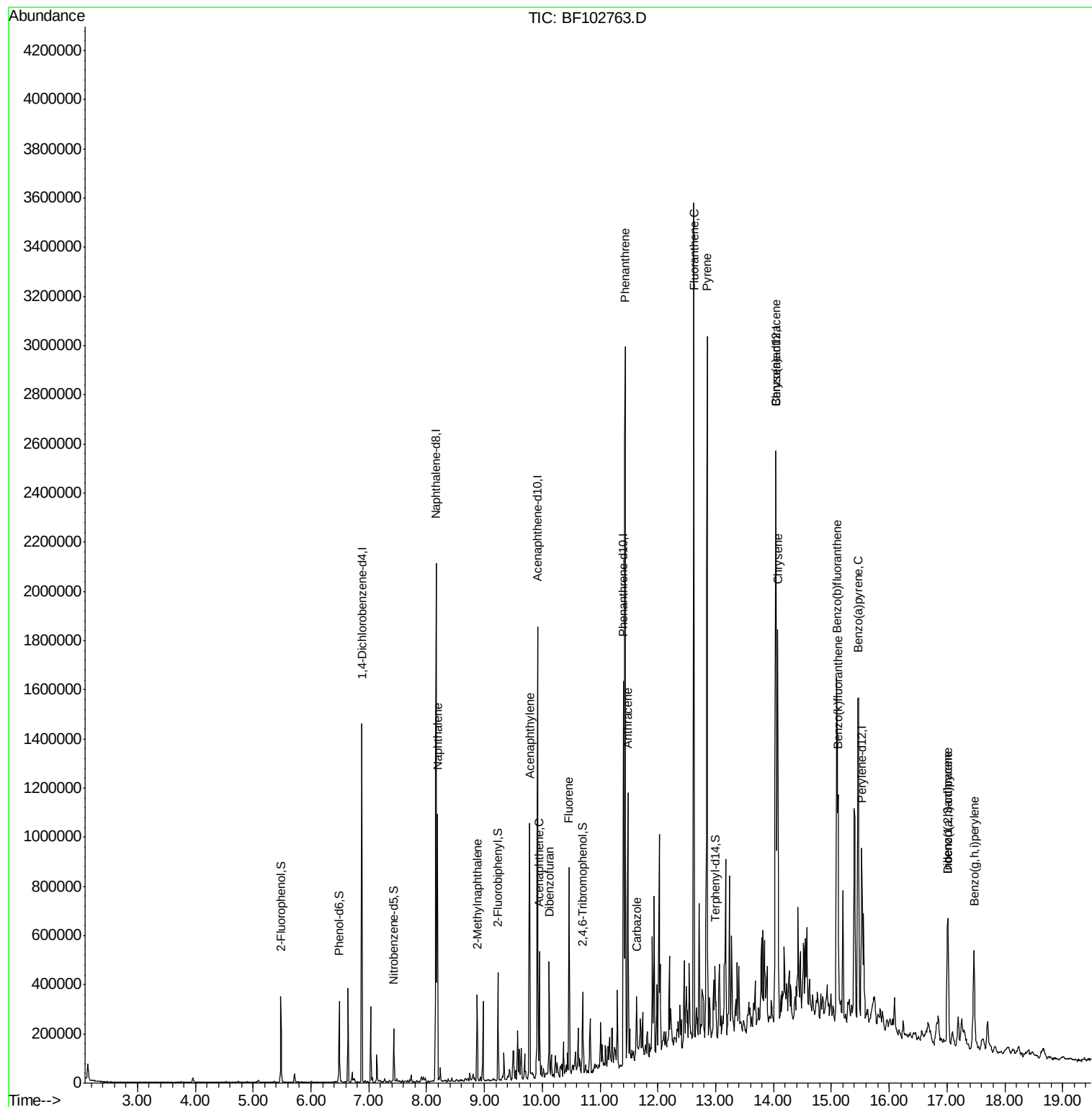
Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
Data File : BF102763.D
Acq On : 6 Feb 2018 3:31
Operator : SJ/JU
Sample : J1447-06 20X
Misc :
ALS Vial : 36 Sample Multiplier: 1

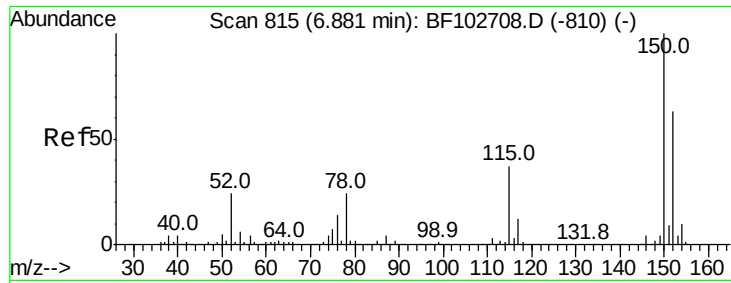
Instrument :
BNA_F
ClientSampleId :
A2 SB71 E-N 8

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM

Quant Time: Feb 06 06:39:12 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 05 12:44:16 2018
Response via : Initial Calibration





#1

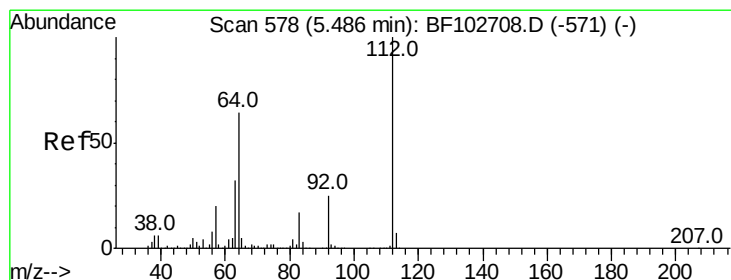
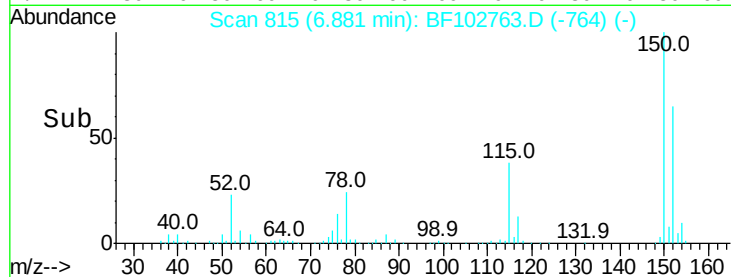
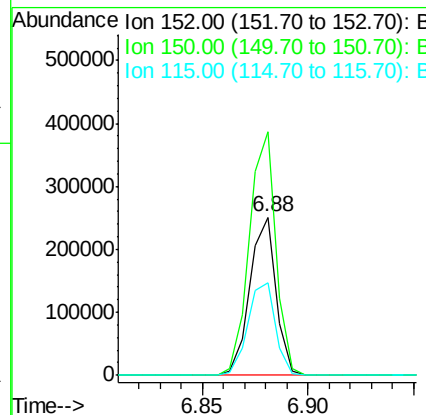
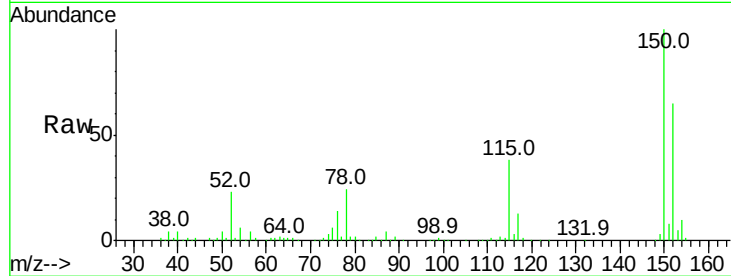
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Instrument :
BNA_F
ClientSampled :
A2 SB71 E-N 8

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.6	186.8
115	59.0	50.1	75.1

Manual Integrations
APPROVED

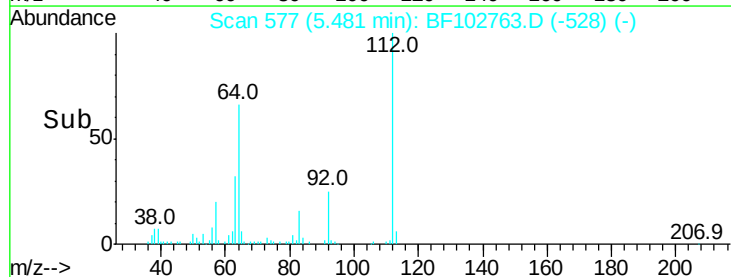
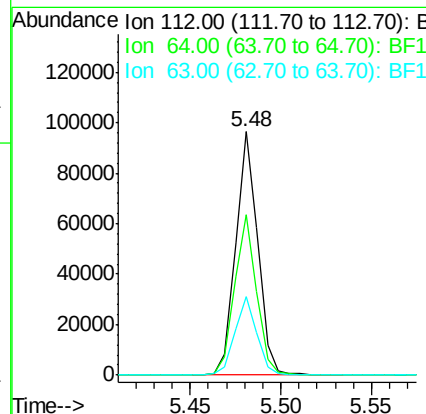
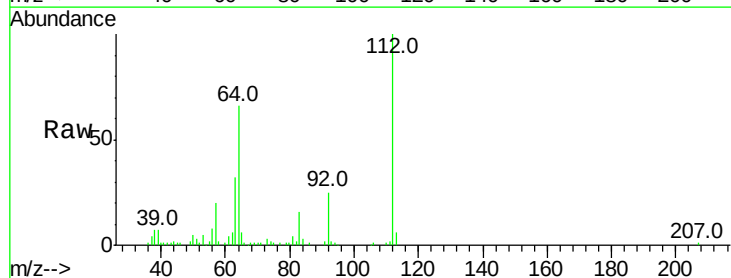
Sohil
2/6/2018 2:26:14 PM

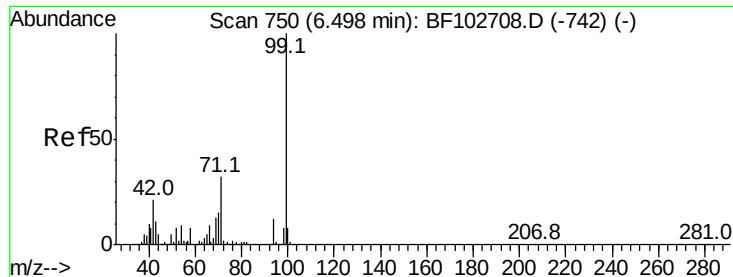


#5

2-Fluorophenol
Concen: 5.777 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.7	47.9	71.9
63	32.1	23.7	35.5





#7

Phenol-d6

Concen: 5.786 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.02 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Instrument :

BNA_F

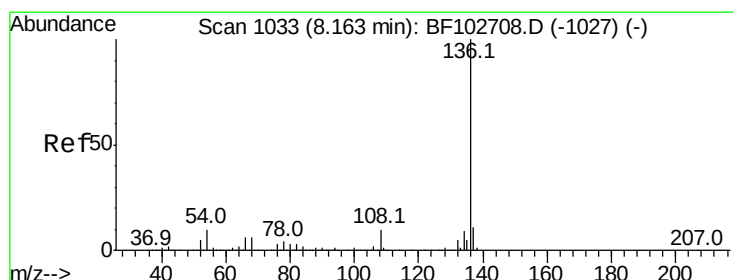
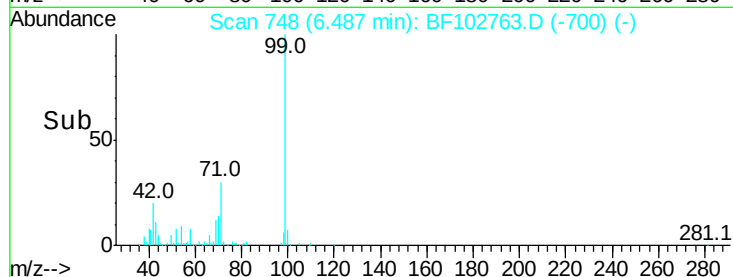
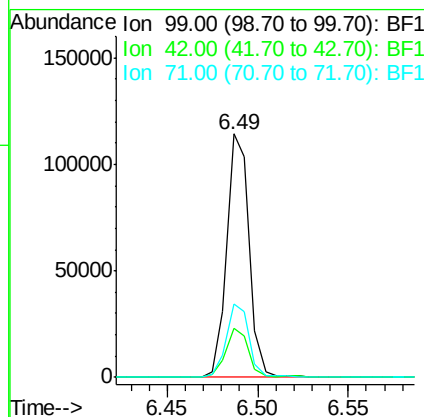
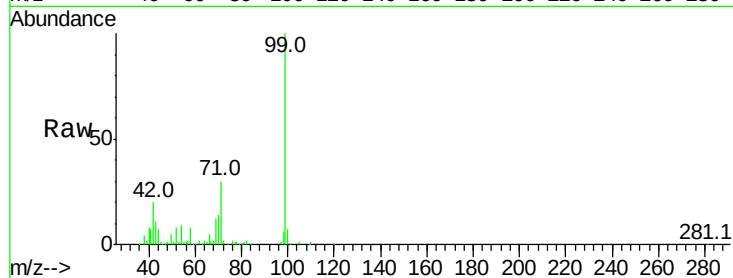
ClientSampleId :

A2 SB71 E-N 8

Tot Ion:	99	Resp:	98469
Ion Ratio	Lower	Upper	
99	100		
42	20.1	14.5	21.7
71	30.3	25.4	38.0

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM



#21

Naphthalene-d8

Concen: 20.000 ng

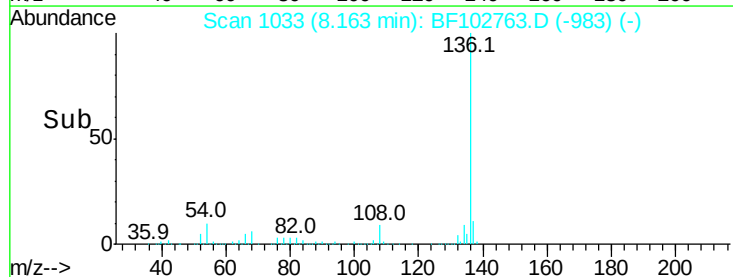
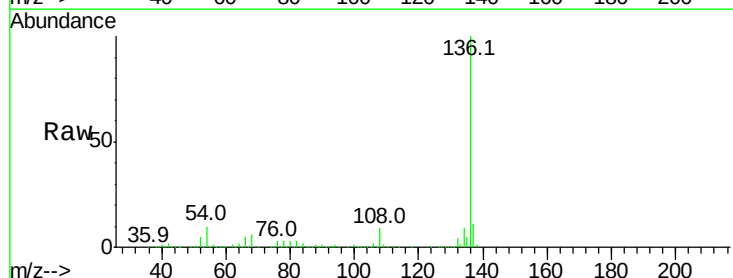
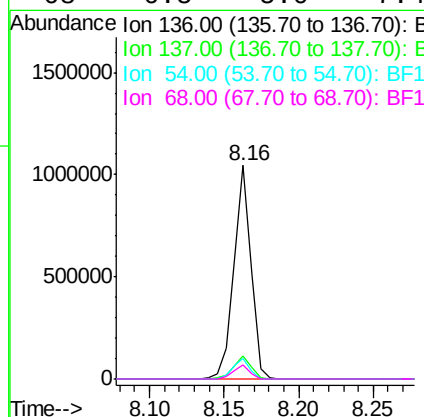
RT: 8.16 min Scan# 1033

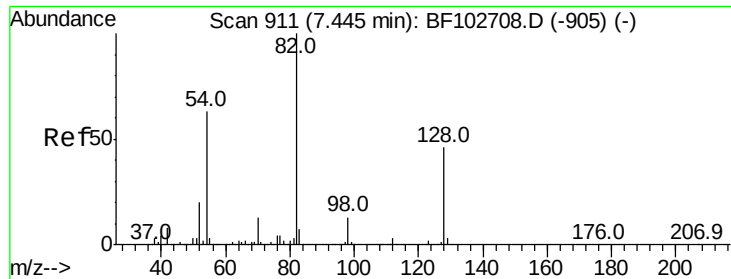
Delta R.T. -0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Tgt Ion:	136	Resp:	859811
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	9.9	6.6	9.8#
68	6.5	5.0	7.4





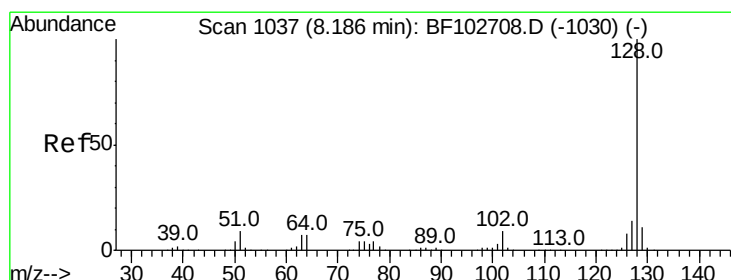
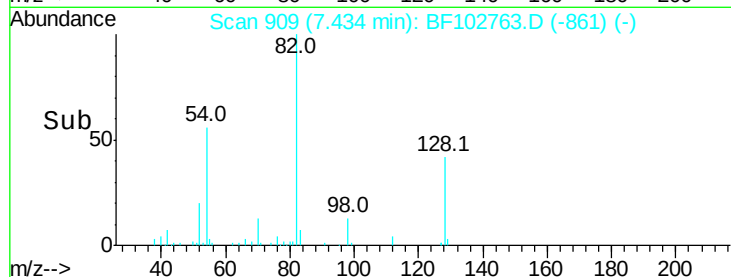
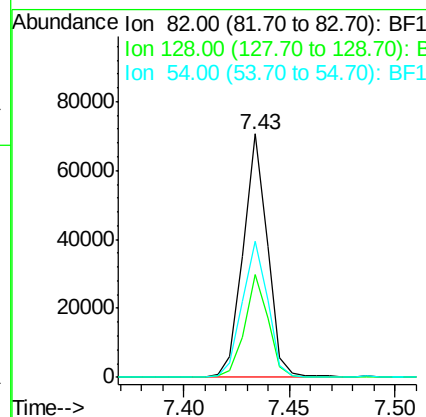
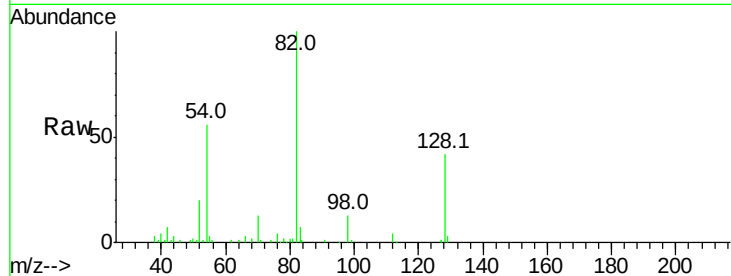
#23
Nitrobenzene-d5
Concen: 4.518 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.02 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Instrument :
BNA_F
ClientSampleId :
A2_SB71_E-N_8

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.5	36.1	54.1
54	56.1	41.4	62.2

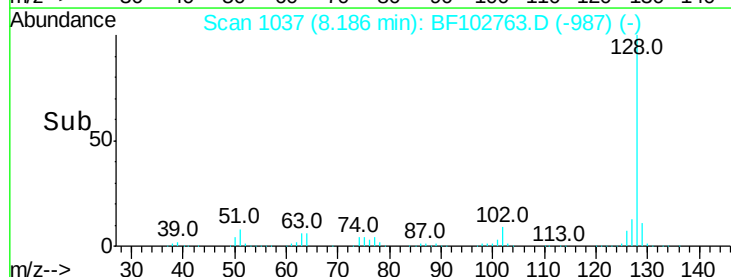
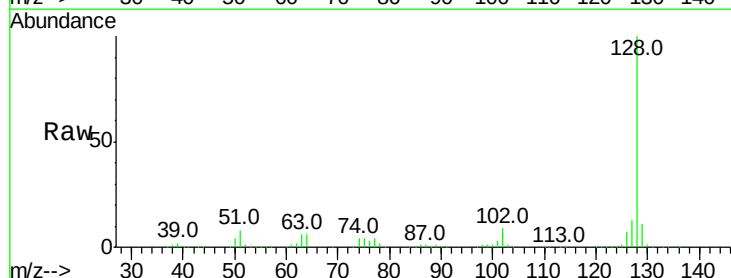
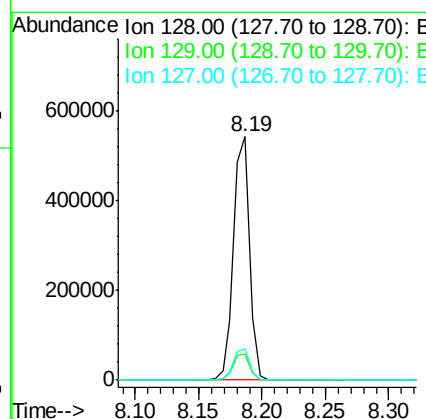
Manual Integrations
APPROVED

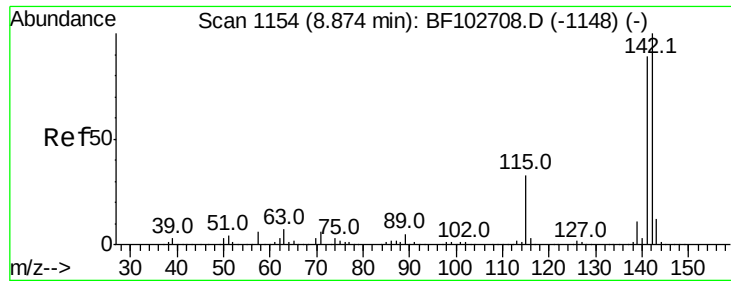
Sohil
2/6/2018 2:26:14 PM



#31
Naphthalene
Concen: 11.280 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	12.8	10.9	16.3





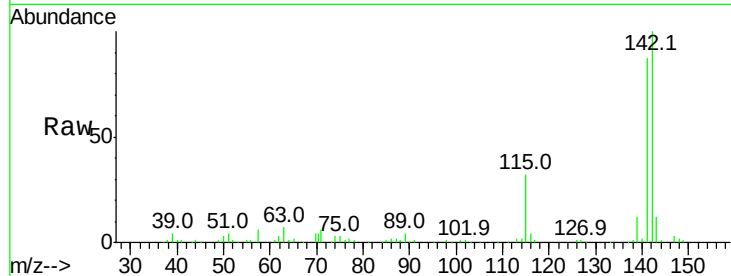
#37
2-Methylnaphthalene
Concen: 3.023 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Instrument :
BNA_F
ClientSampleId :
A2 SB71 E-N 8

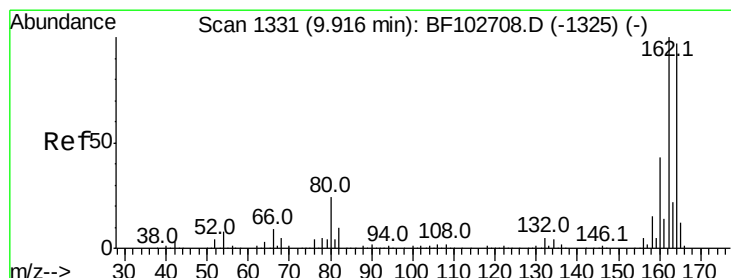
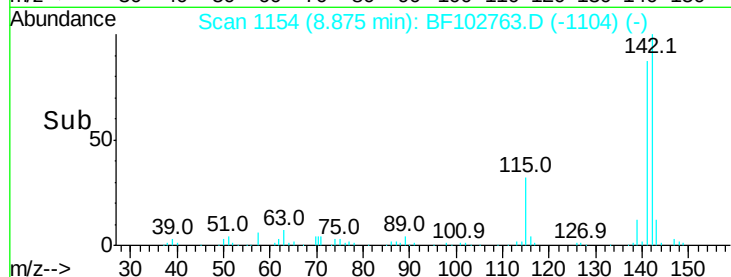
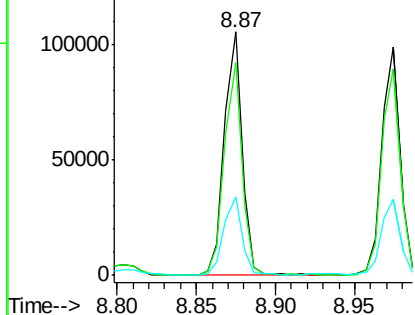
Tot Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.8	106.2
115	32.4	26.1	39.1

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM



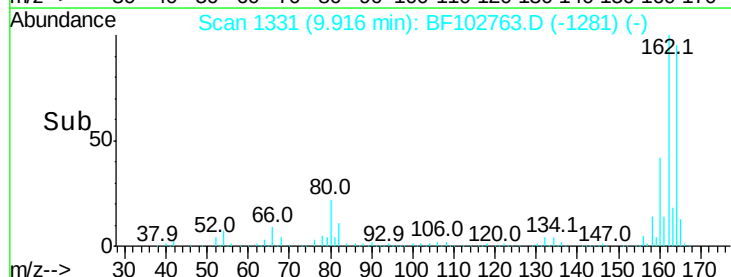
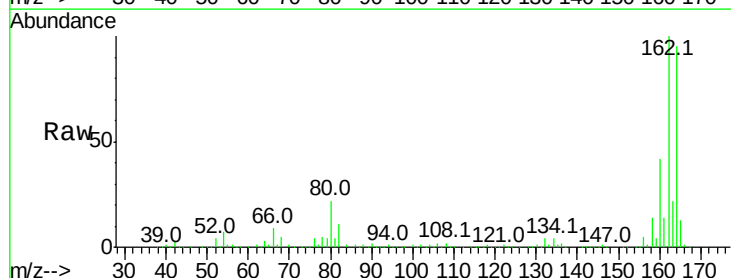
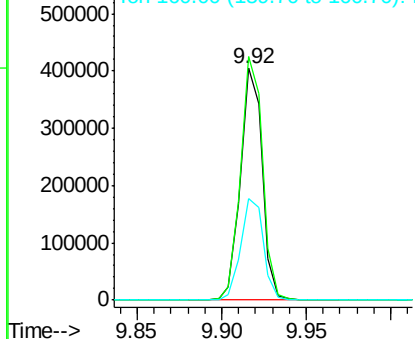
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

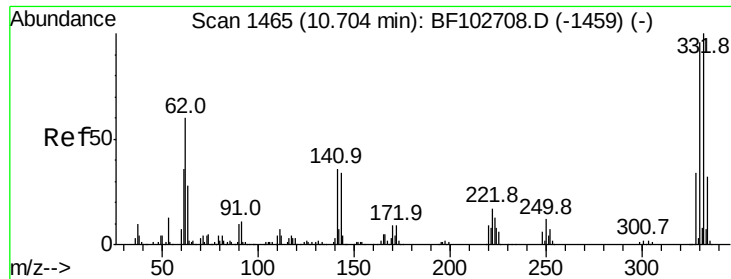


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.9	86.1	129.1
160	44.0	38.3	57.5

Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





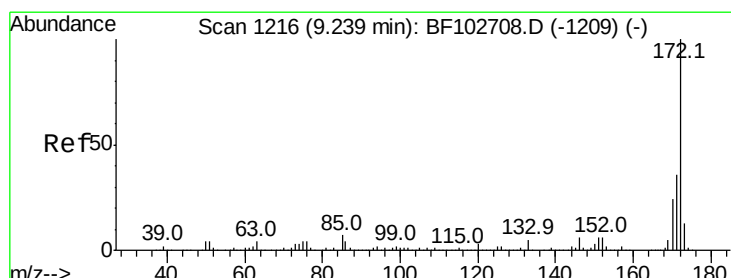
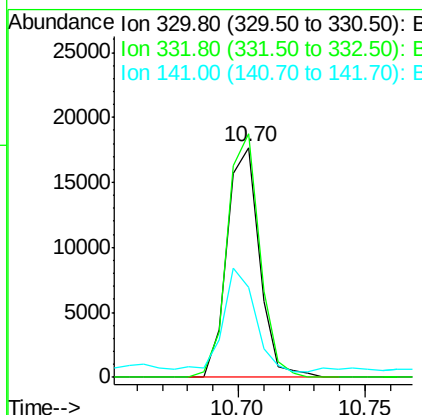
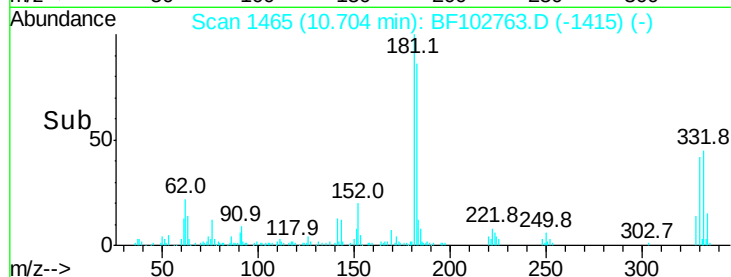
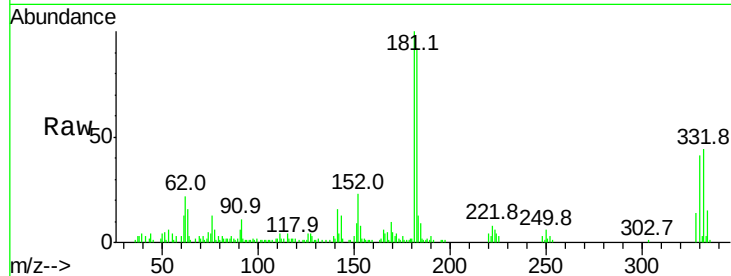
#41
 2,4,6-Tribromophenol
 Concen: 5.388 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF102763.D
 Acq: 6 Feb 2018 3:31

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB71_E-N_8

Tot Ion	Ratio	Lower	Upper
330	100		
332	105.7	77.0	115.6
141	43.8	29.9	44.9

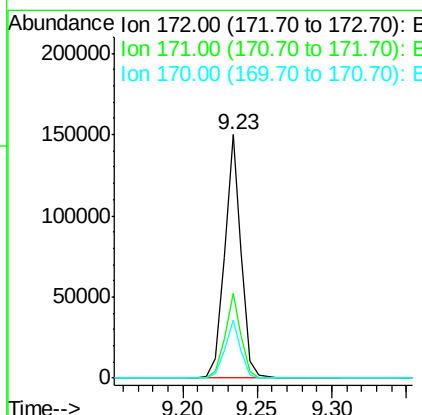
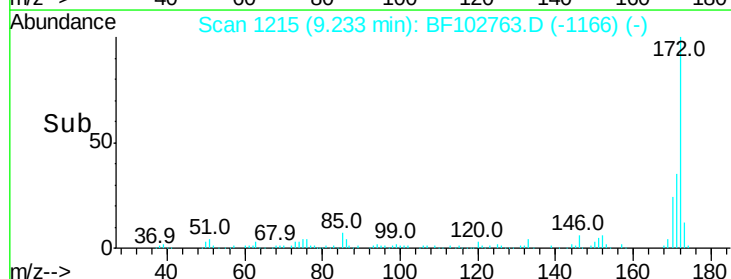
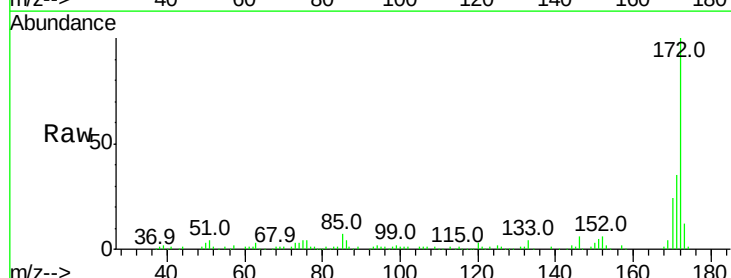
Manual Integrations
 APPROVED

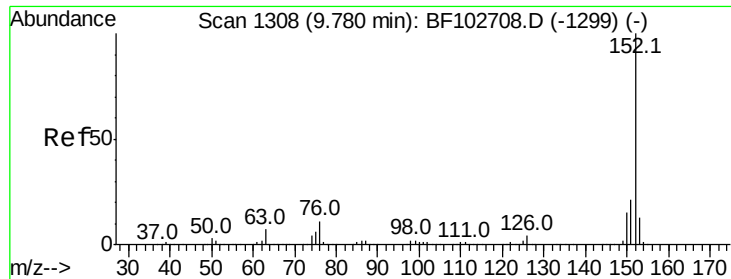
Sohil
 2/6/2018 2:26:14 PM



#44
 2-Fluorobiphenyl
 Concen: 5.353 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF102763.D
 Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.7	44.5
170	24.0	19.6	29.4





#48

Acenaphthylene

Concen: 12.029 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Instrument :

BNA_F

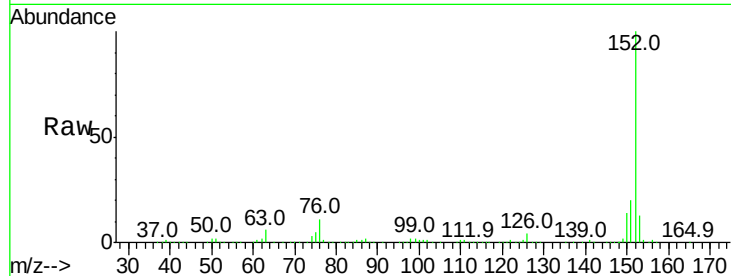
ClientSampleId :

A2 SB71 E-N 8

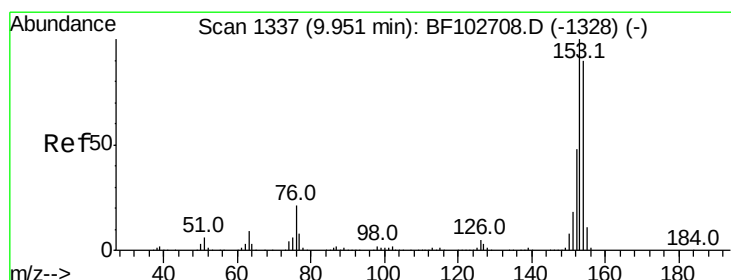
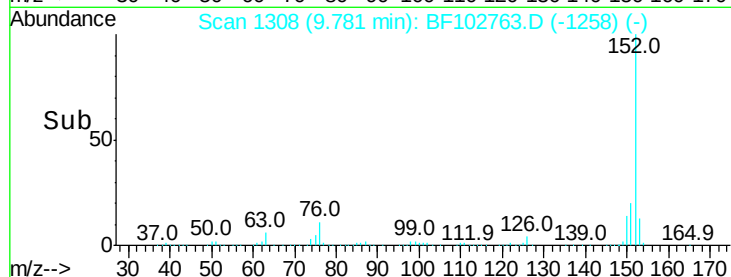
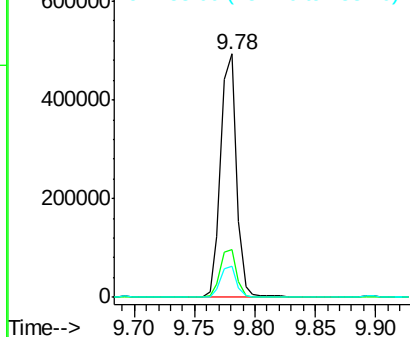
Tot Ion:	152	Resp:	449651
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.3	24.5
153	12.8	10.7	16.1

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 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



#51

Acenaphthene

Concen: 4.416 ng

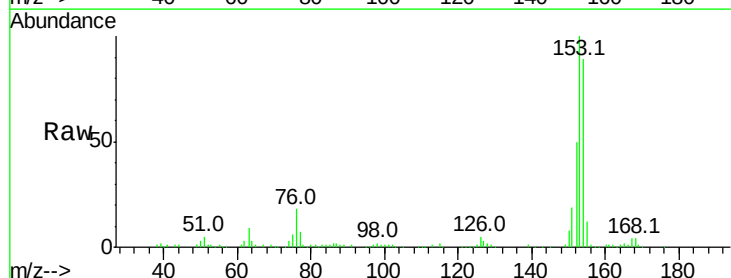
RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

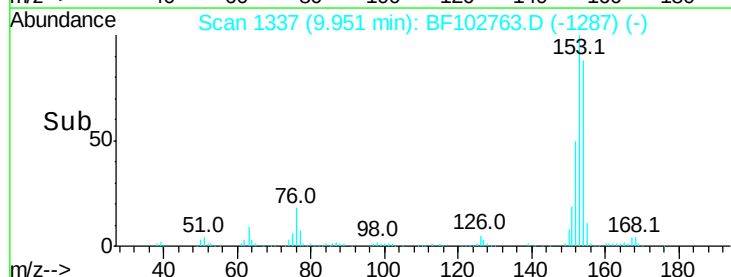
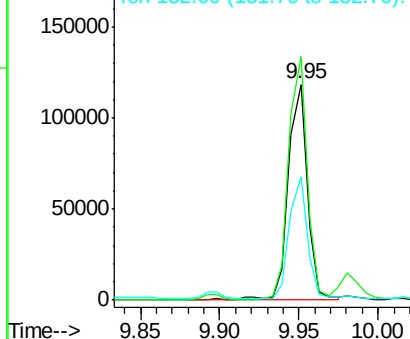
Lab File: BF102763.D

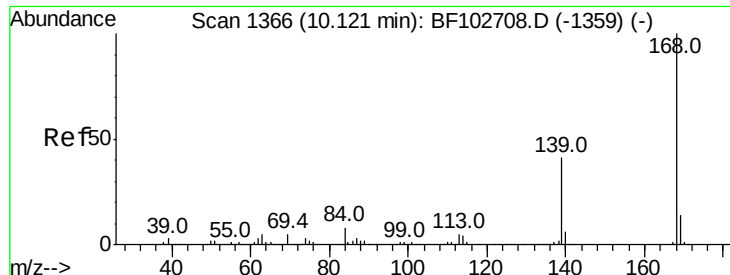
Acq: 6 Feb 2018 3:31

Tgt Ion:	154	Resp:	98726
Ion Ratio	Lower	Upper	
154	100		
153	112.8	91.2	136.8
152	56.9	43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 4.868 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Instrument :

BNA_F

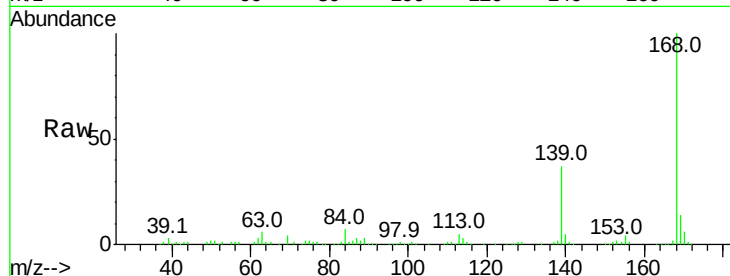
ClientSampleId :

A2 SB71 E-N 8

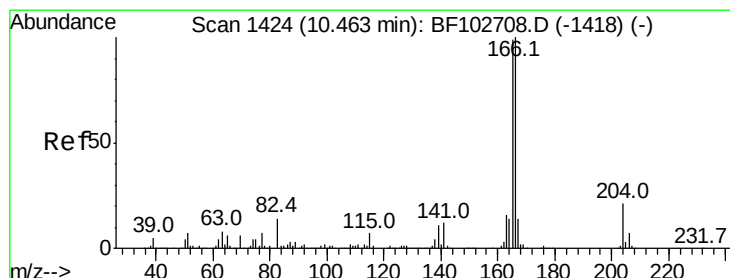
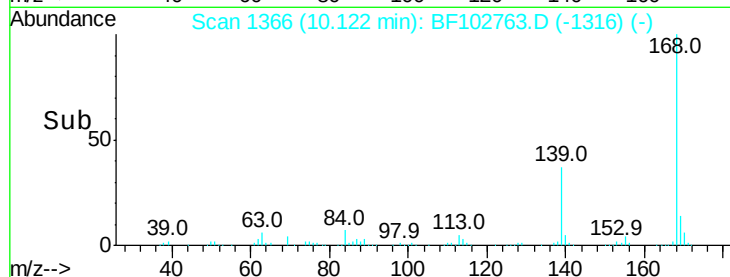
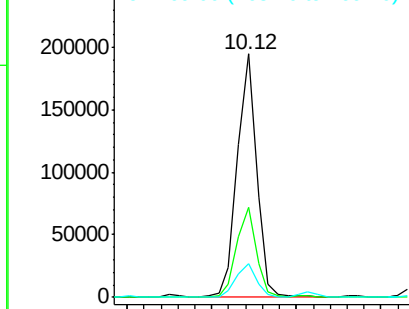
Tot Ion:	168	Resp:	153360
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.1	45.1
169	13.8	10.9	16.3

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 9.945 ng

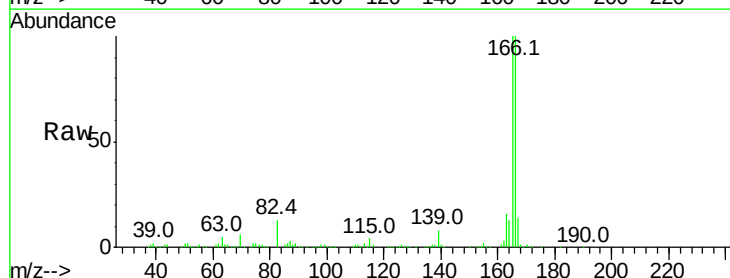
RT: 10.46 min Scan# 1424

Delta R.T. -0.01 min

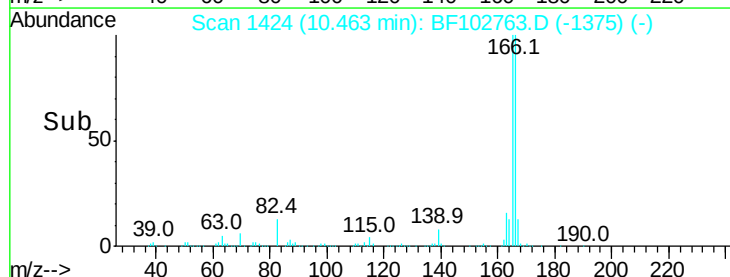
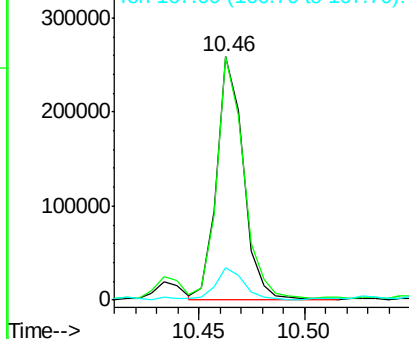
Lab File: BF102763.D

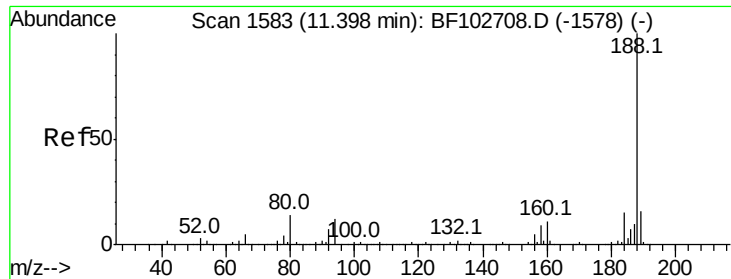
Acq: 6 Feb 2018 3:31

Tgt Ion:	166	Resp:	227957
Ion Ratio	Lower	Upper	
166	100		
165	99.9	79.8	119.8
167	13.5	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





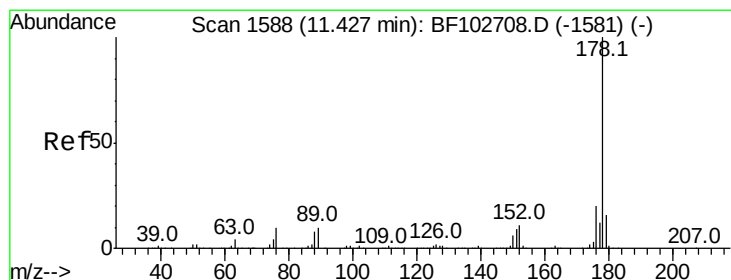
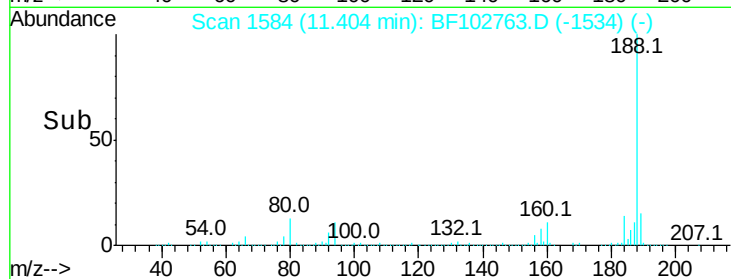
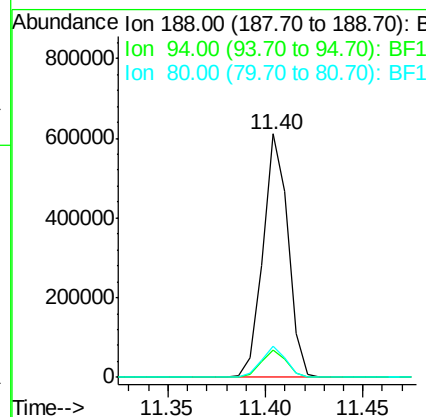
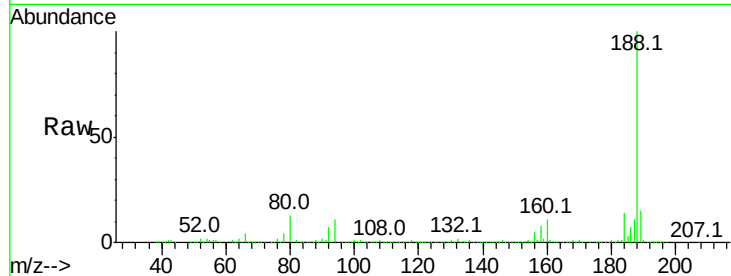
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Instrument :
BNA_F
ClientSampleId :
A2 SB71 E-N 8

Tot Ion	Ratio	Resp	Lower	Upper
188	100	541766		
94	11.4		8.5	12.7
80	12.6		9.2	13.8

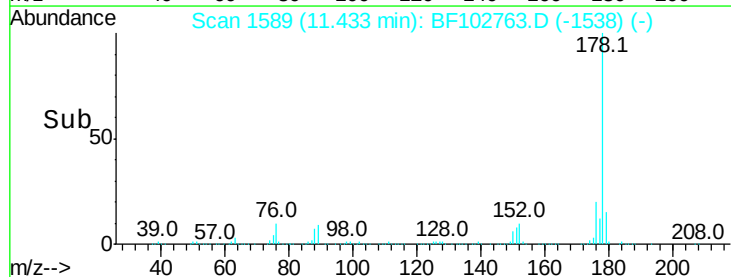
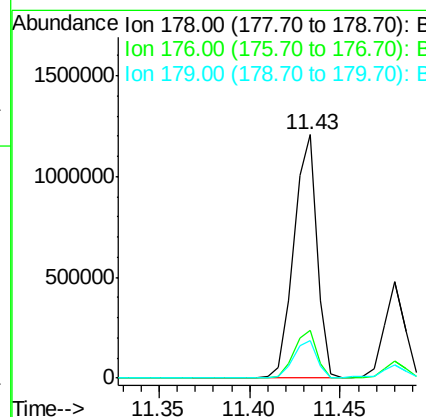
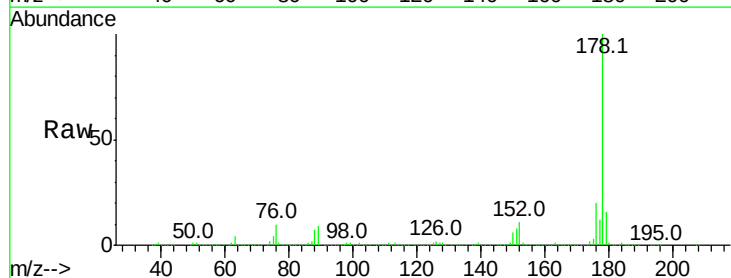
Manual Integrations
APPROVED

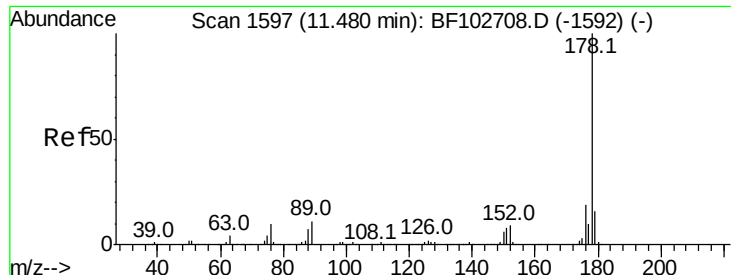
Sohil
2/6/2018 2:26:14 PM



#70
Phenanthrene
Concen: 35.927 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1084014		
176	19.8		15.8	23.8
179	15.5		13.0	19.6





#71

Anthracene

Concen: 11.945 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Instrument :

BNA_F

ClientSampleId :

A2 SB71 E-N 8

Tot Ion:178 Resp: 366582

Ion Ratio Lower Upper

178 100

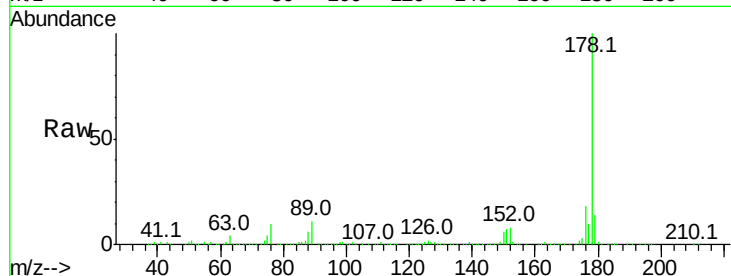
176 18.3 15.4 23.2

179 14.4 12.6 19.0

Manual Integrations
APPROVED

Sohil

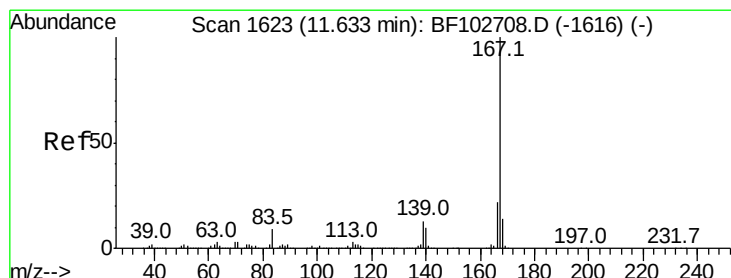
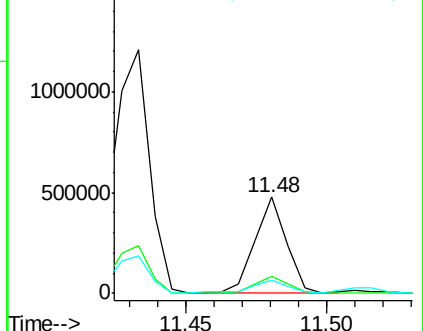
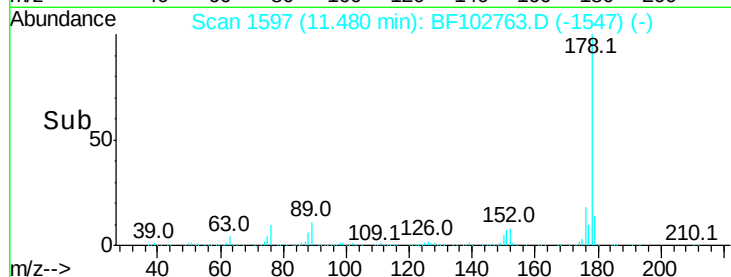
2/6/2018 2:26:14 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.984 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

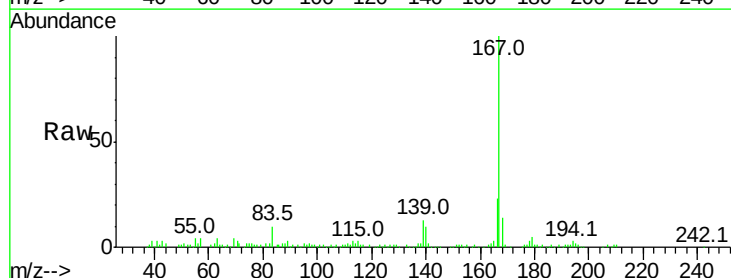
Tgt Ion:167 Resp: 89726

Ion Ratio Lower Upper

167 100

166 22.9 17.6 26.4

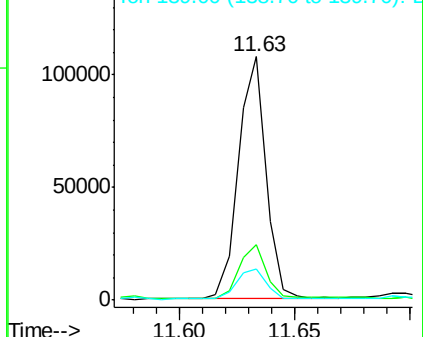
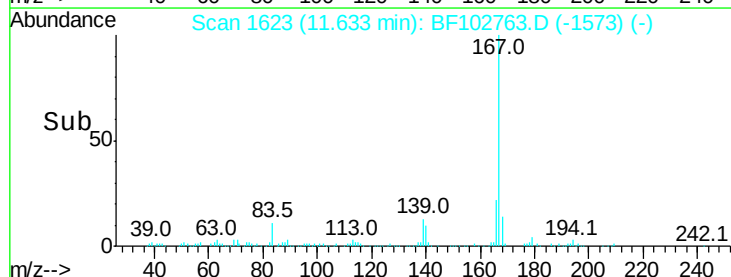
139 12.9 10.9 16.3

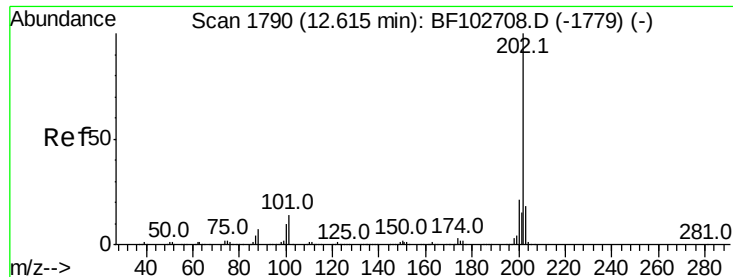


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 43.765 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Instrument :

BNA_F

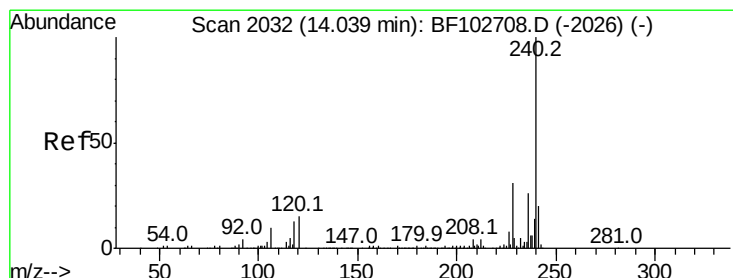
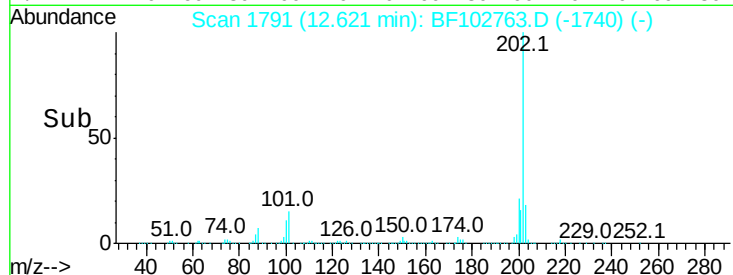
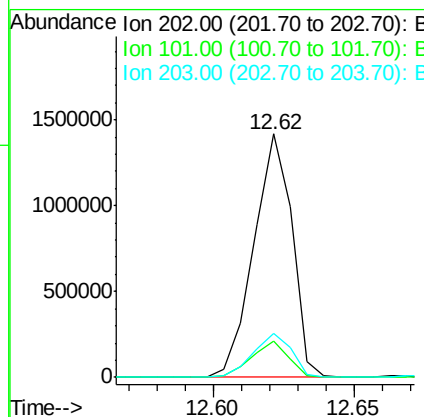
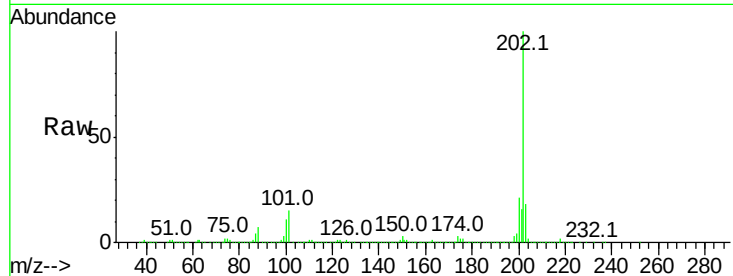
ClientSampleId :

A2 SB71 E-N 8

Tot Ion:	202	Resp:	1328597
Ion Ratio	Lower	Upper	
202	100		
101	14.8	0.0	34.1
203	18.1	0.0	38.1

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM



#75

Chrysene-d12

Concen: 20.000 ng

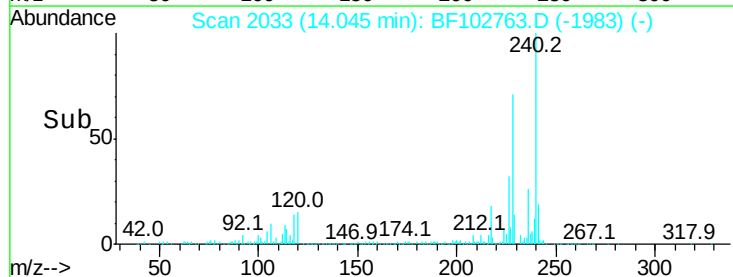
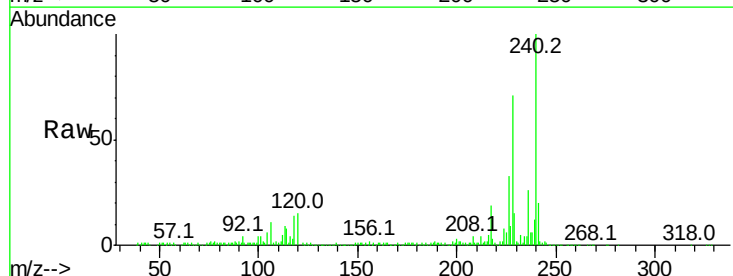
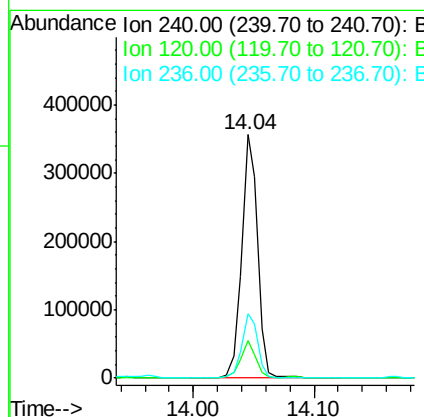
RT: 14.04 min Scan# 2033

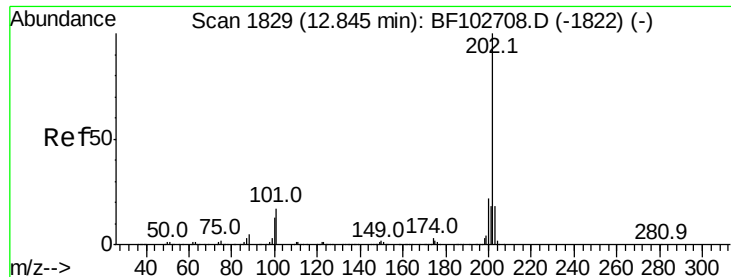
Delta R.T. -0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Tgt Ion:	240	Resp:	325474
Ion Ratio	Lower	Upper	
240	100		
120	15.2	9.5	14.3#
236	26.2	20.7	31.1





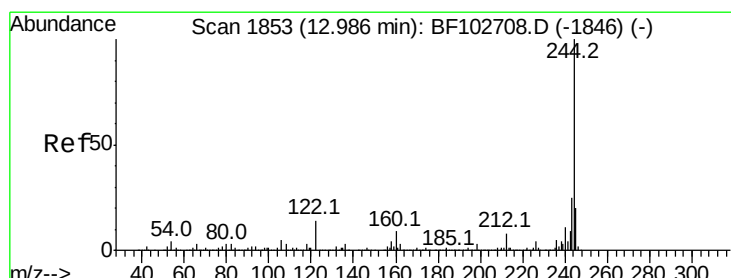
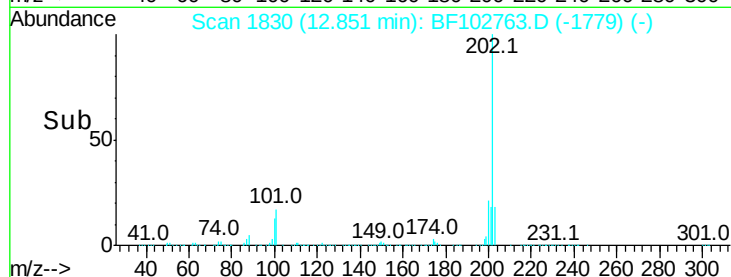
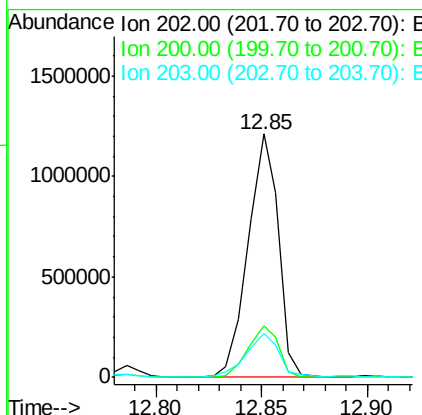
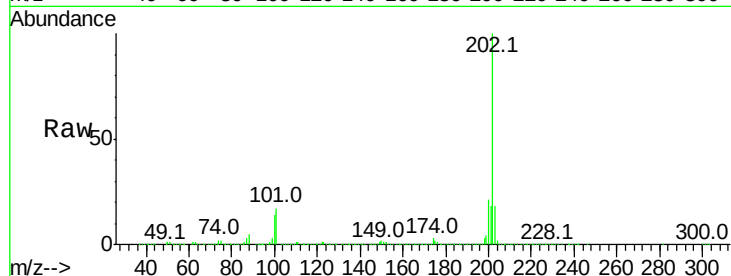
#77
Pvrene
Concen: 47.058 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.00 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Instrument :
BNA_F
ClientSampleId :
A2 SB71 E-N 8

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	18.3	14.3	21.5

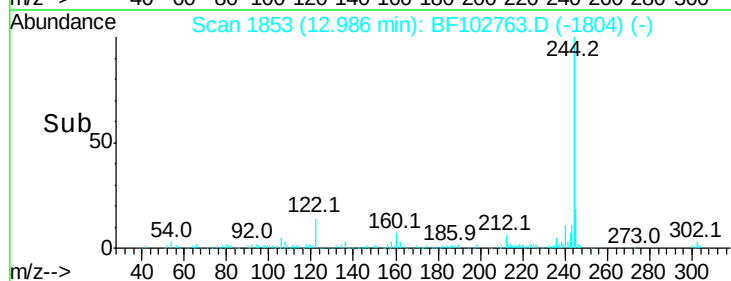
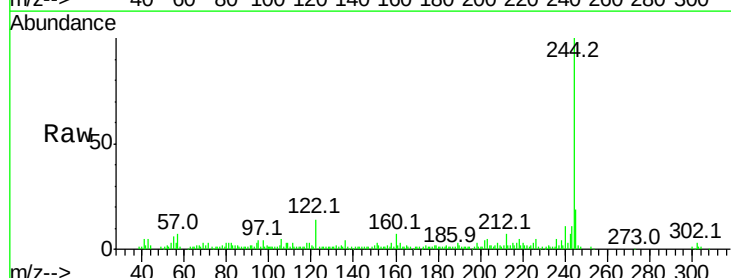
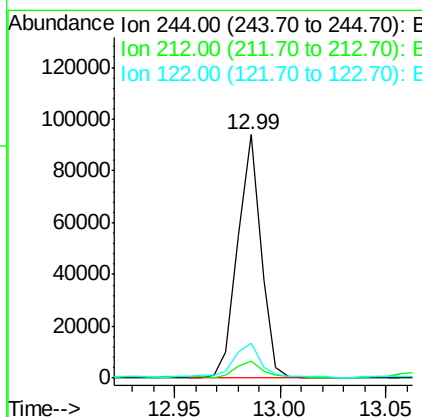
Manual Integrations
APPROVED

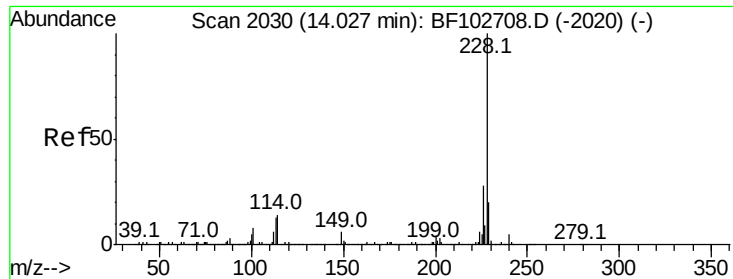
Sohil
2/6/2018 2:26:14 PM



#78
Terphenyl-d14
Concen: 5.209 ng
RT: 12.99 min Scan# 1853
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	14.5	11.0	16.4





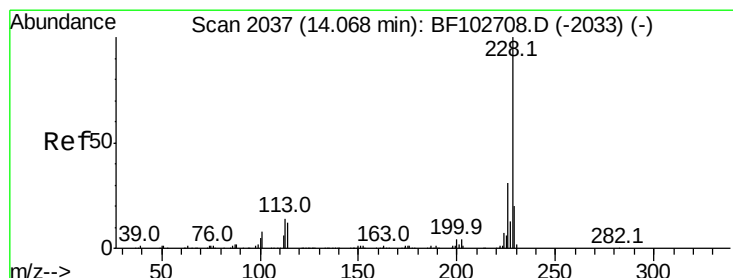
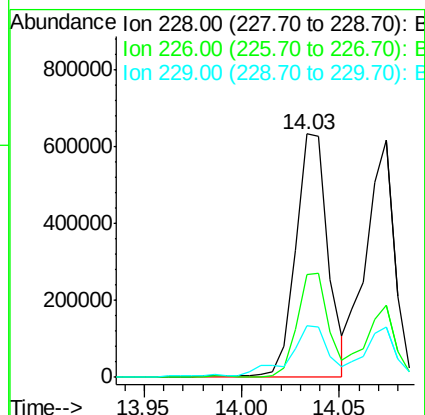
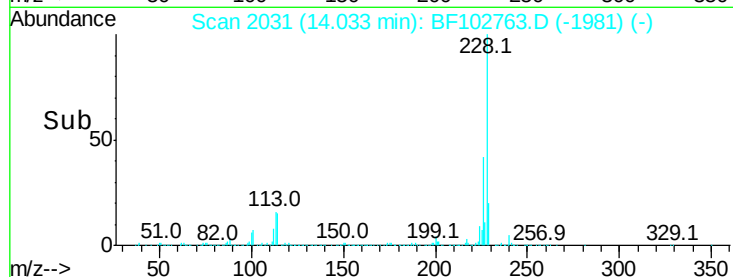
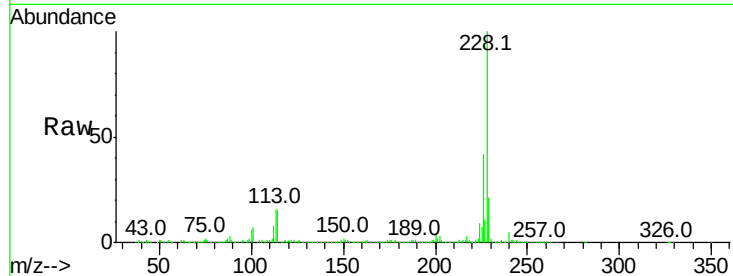
#80
Benzo(a)anthracene
Concen: 35.521 ng m
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Instrument :
BNA_F
ClientSampleId :
A2 SB71 E-N 8

Tot Ion	Ratio	Lower	Upper
228	100		
226	42.0	22.6	33.8#
229	21.0	15.8	23.6

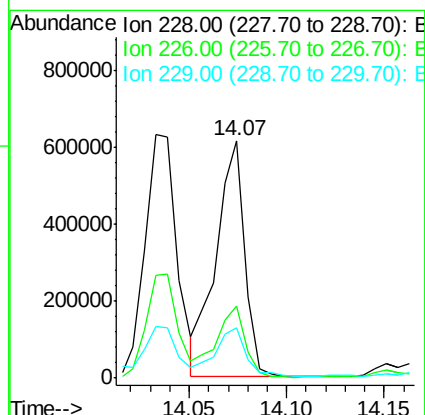
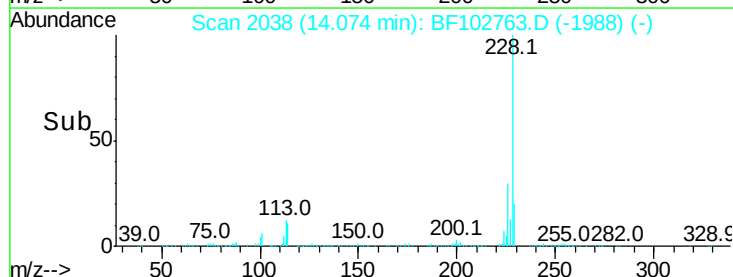
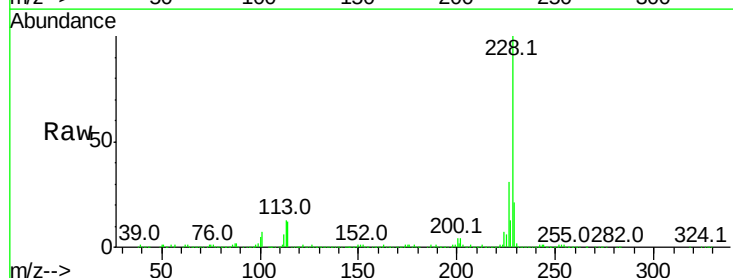
Manual Integrations
APPROVED

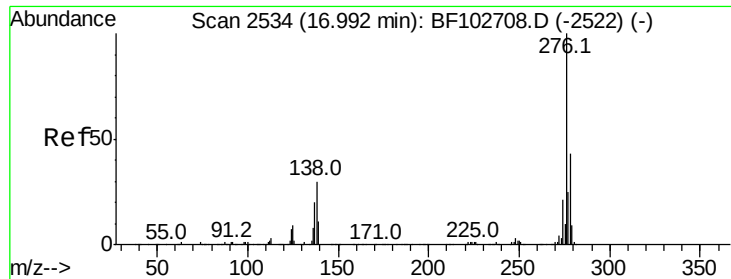
Sohil
2/6/2018 2:26:14 PM



#82
Chrysene
Concen: 30.360 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	21.3	16.2	24.4





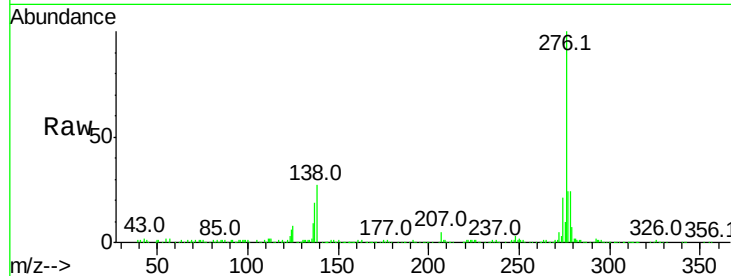
#85
Indeno(1,2,3-cd)pyrene
Concen: 19.431 ng
RT: 17.02 min Scan# 2538
Delta R.T. 0.00 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Instrument :
BNA_F
ClientSampleId :
A2 SB71 E-N 8

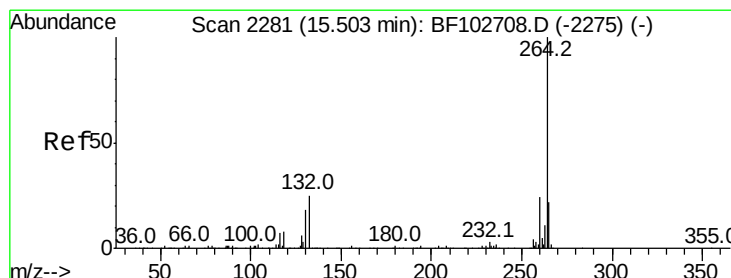
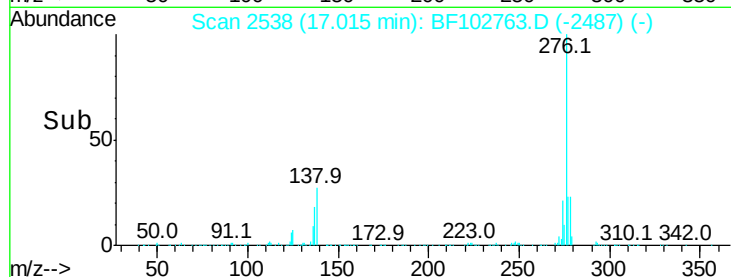
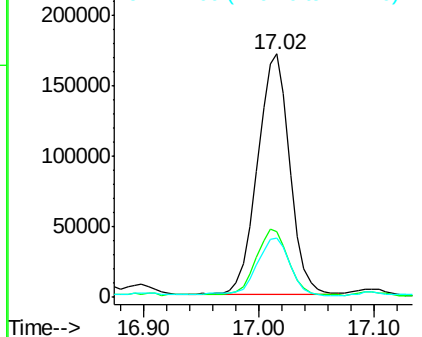
Tot Ion	Ratio	Lower	Upper
276	100		
138	27.4	25.0	37.6
277	24.3	20.1	30.1

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM

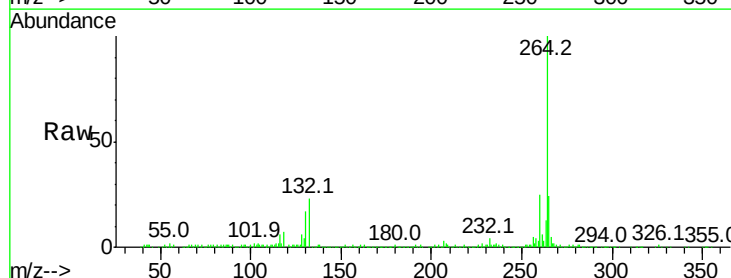


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

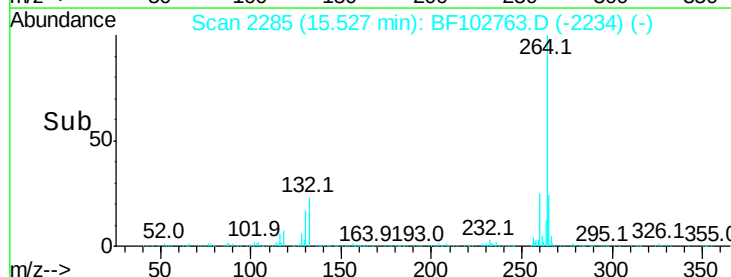
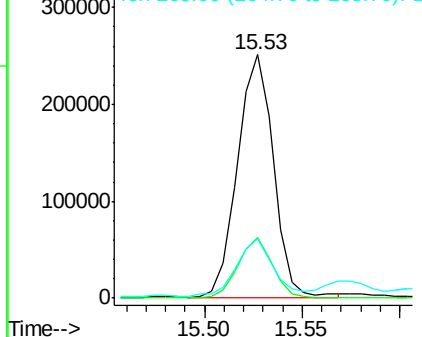


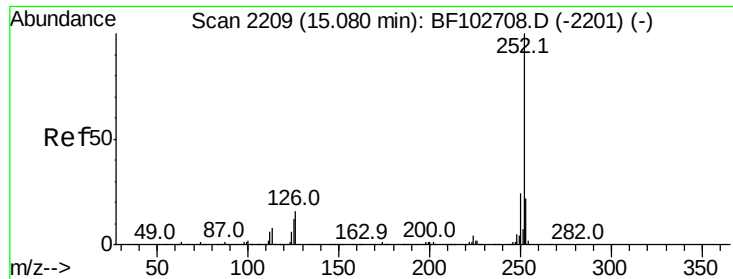
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. 0.00 min
Lab File: BF102763.D
Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.2	28.8
265	24.3	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 42.053 ng m

RT: 15.09 min Scan# 2211

Delta R.T. 0.00 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

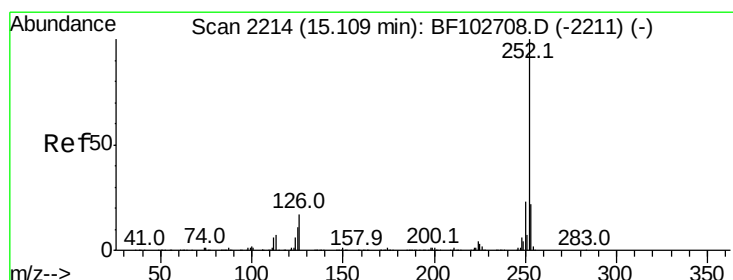
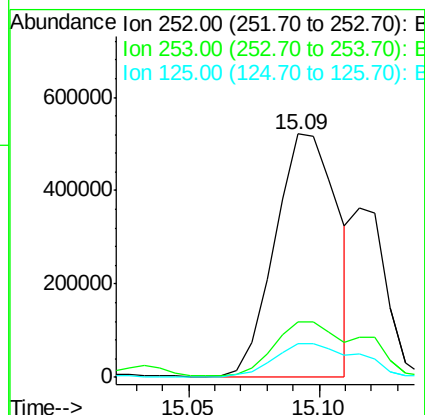
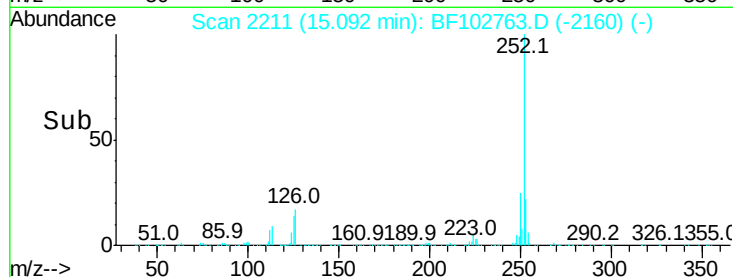
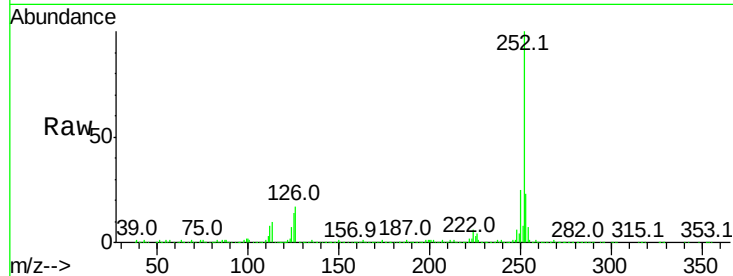
Instrument :
BNA_F

ClientSampleId :
A2_SB71_E-N_8

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	13.9	9.0	13.6

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM



#88

Benzo(k)fluoranthene

Concen: 16.265 ng m

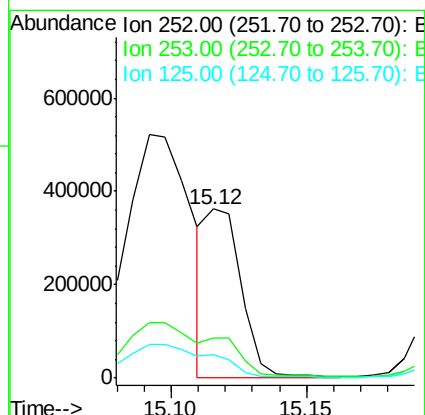
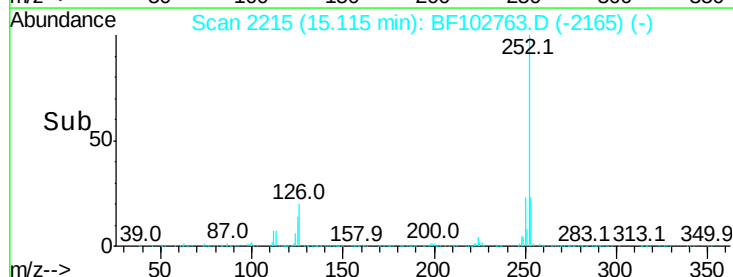
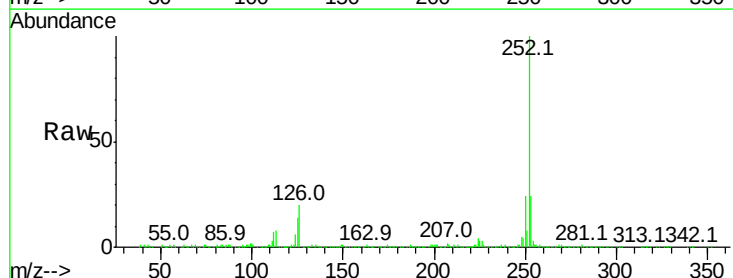
RT: 15.12 min Scan# 2215

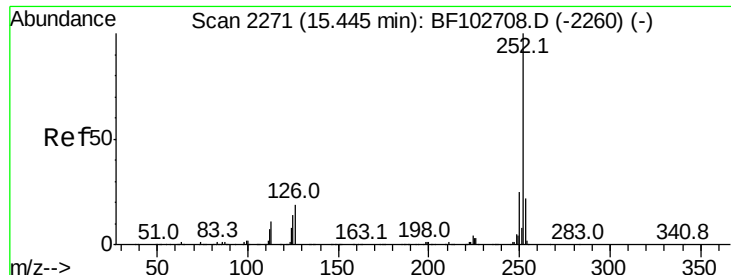
Delta R.T. -0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	14.0	10.2	15.2





#89

Benzo(a)pyrene

Concen: 35.350 ng

RT: 15.47 min Scan# 2275

Delta R.T. 0.01 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Instrument :

BNA_F

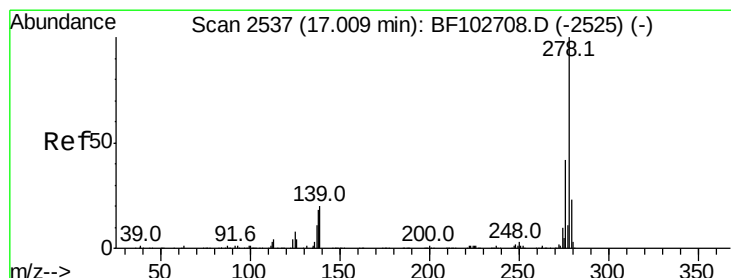
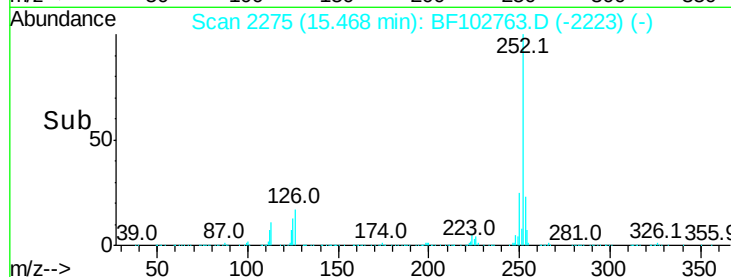
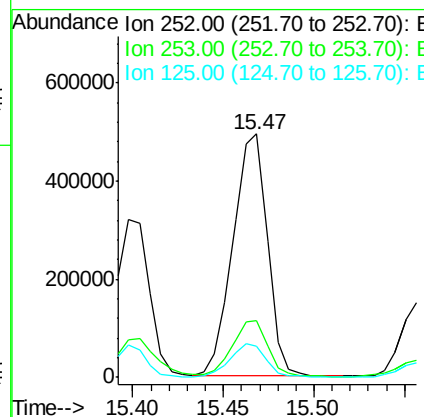
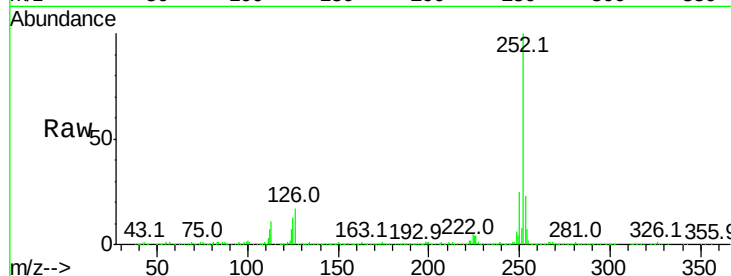
ClientSampleId :

A2 SB71 E-N 8

Tot Ion:	252	Resp:	656080
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.1	25.7
125	12.9	9.8	14.6

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:14 PM



#90

Dibenzo(a,h)anthracene

Concen: 6.038 ng m

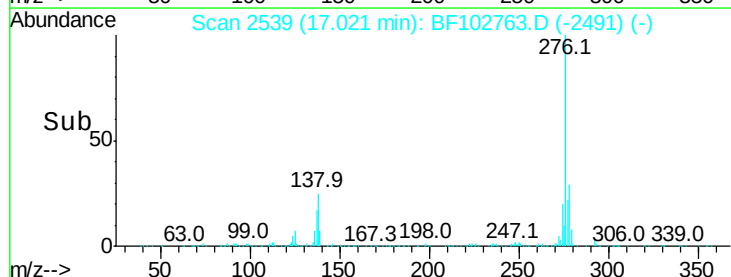
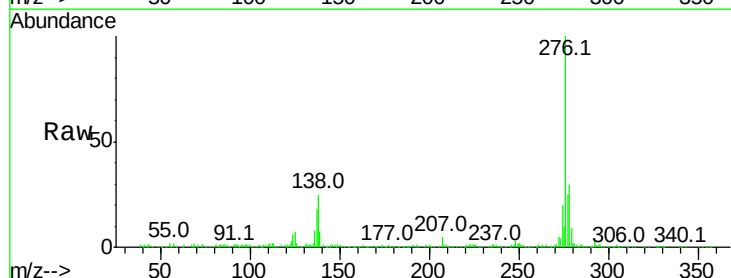
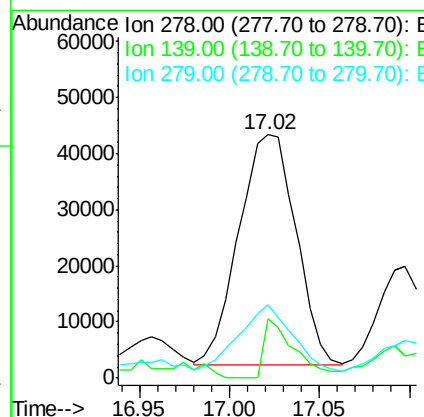
RT: 17.02 min Scan# 2539

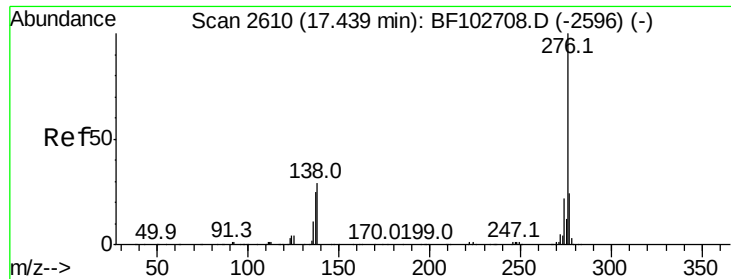
Delta R.T. -0.02 min

Lab File: BF102763.D

Acq: 6 Feb 2018 3:31

Tgt Ion:	278	Resp:	90965
Ion Ratio	Lower	Upper	
278	100		
139	24.3	15.9	23.9#
279	30.0	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 21.308 ng
 RT: 17.47 min Scan# 2615
 Delta R.T. -0.01 min
 Lab File: BF102763.D
 Acq: 6 Feb 2018 3:31

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB71_E-N_8

Tot Ion:	276	Resp:	314180
Ion Ratio	Lower	Upper	
276	100		
277	23.8	17.9	26.9
138	28.9	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 2/6/2018 2:26:14 PM

