

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
 Data File : BF107816.D
 Acq On : 30 Jul 2018 22:33
 Operator : JU/SJ
 Sample : J4164-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(3-5)

Manual Integrations
 APPROVED

Sohil
 7/31/2018 2:42:46 PM

Quant Time: Jul 31 03:42:20 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	190543	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	796979	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	319513	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	515498	20.00	ng	0.00
75) Chrysene-d12	14.15	240	433635	20.00	ng	0.00
86) Perylene-d12	15.69	264	501979	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	968303	86.37	ng	0.00
7) Phenol-d6	6.60	99	1226536	83.01	ng	0.00
23) Nitrobenzene-d5	7.52	82	810590	58.59	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	253397	58.37	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	1406039	61.32	ng	0.00
78) Terphenyl-d14	13.08	244	1032145	51.61	ng	0.00
Target Compounds						
31) Naphthalene	8.27	128	208716	5.634	ng	99
37) 2-Methylnaphthalene	8.95	142	84989	3.652	ng	98
48) Acenaphthylene	9.86	152	306079	9.004	ng	98
49) Dimethylphthalate	9.71	163	91570	3.816	ng	98
57) Fluorene	10.55	166	158570	6.685	ng	# 98
70) Phenanthrene	11.52	178	1268456	51.821	ng	100
71) Anthracene	11.57	178	445497	15.779	ng	99
74) Fluoranthene	12.72	202	1333398	46.369	ng	97
77) Pyrene	12.95	202	1723697	55.202	ng	98
80) Benzo(a)anthracene	14.14	228	996967m	40.587	ng	
82) Chrysene	14.18	228	981418	37.042	ng	97
85) Indeno(1,2,3-cd)pyrene	17.27	276	332189	16.484	ng	# 87
87) Benzo(b)fluoranthene	15.23	252	867995m	35.060	ng	
88) Benzo(k)fluoranthene	15.25	252	390134m	12.835	ng	
89) Benzo(a)pyrene	15.62	252	788975	30.869	ng	96
90) Dibenzo(a,h)anthracene	17.27	278	92605	4.154	ng	# 66
91) Benzo(g,h,i)perylene	17.75	276	315405	14.621	ng	92

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

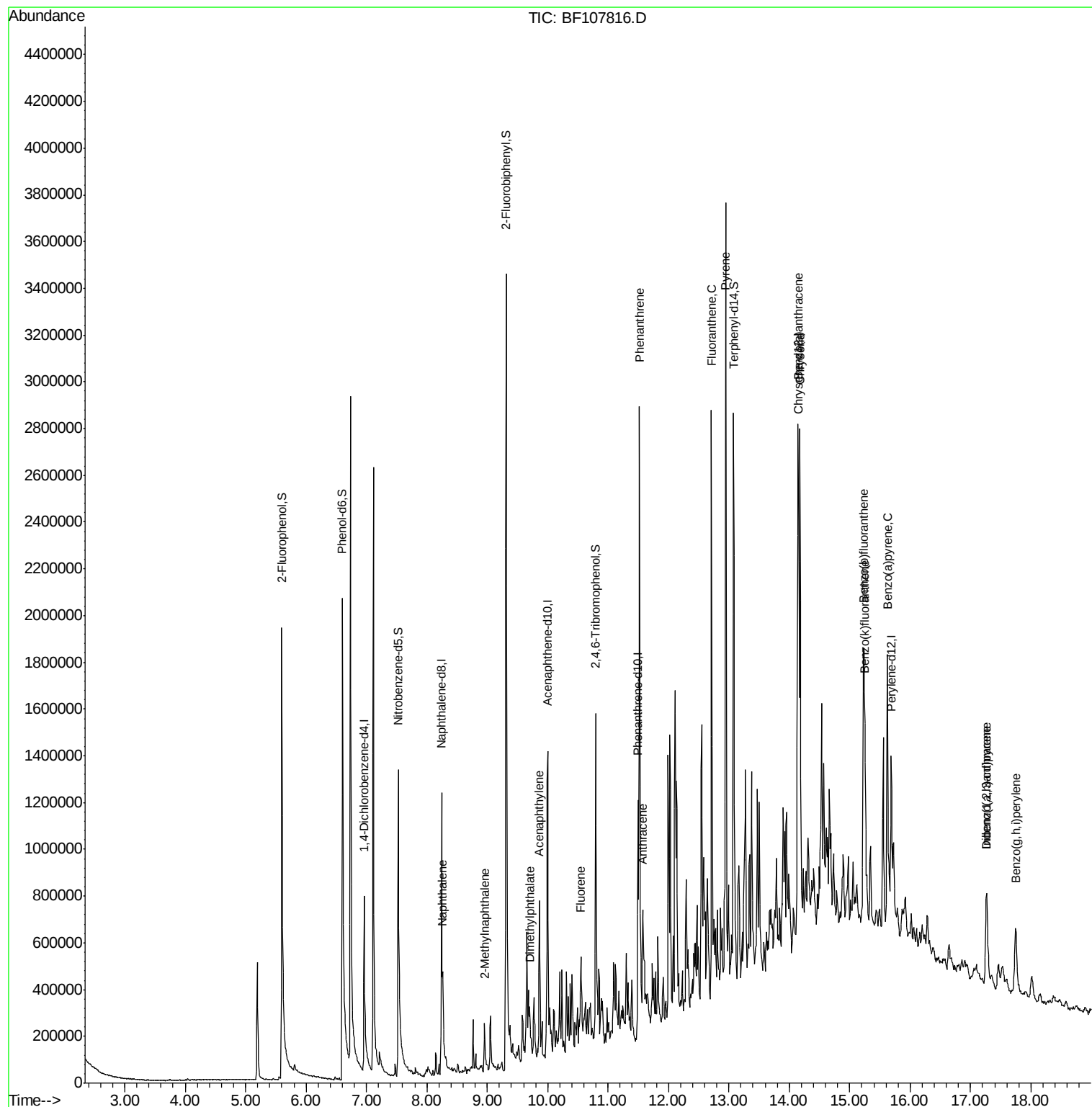
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
Data File : BF107816.D
Acq On : 30 Jul 2018 22:33
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

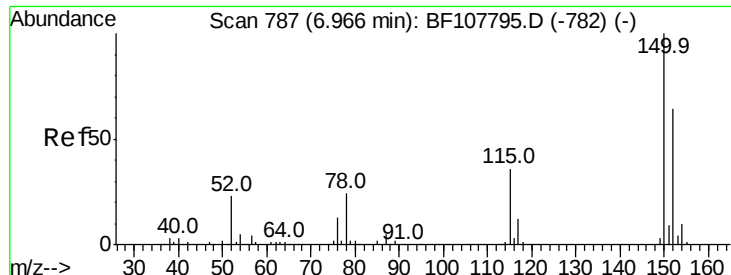
Instrument :
BNA_F
ClientSampleId :
SB-5(3-5)

Quant Time: Jul 31 03:42:20 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 30 17:48:53 2018
Response via : Initial Calibration

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:46 PM





#1

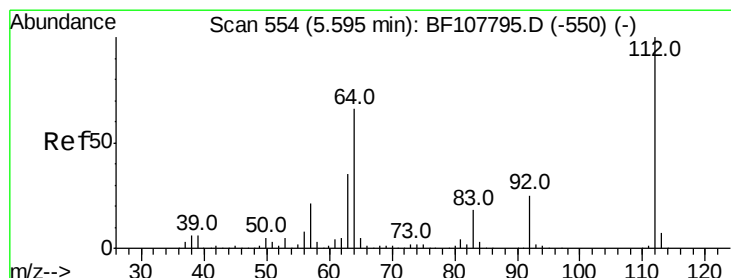
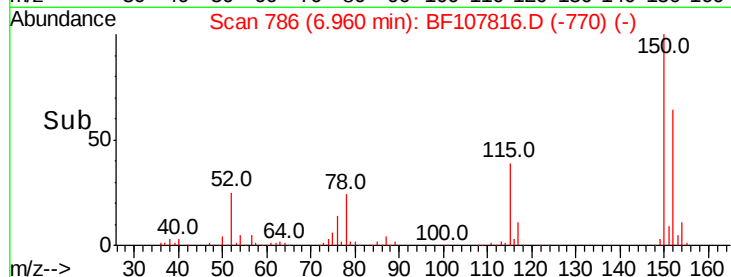
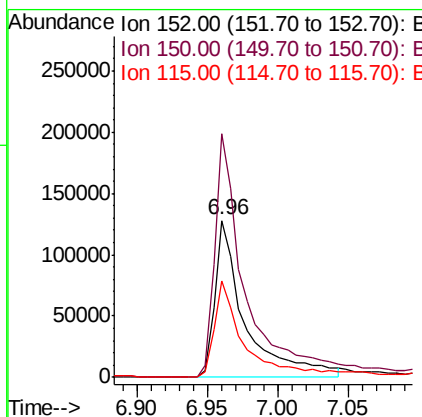
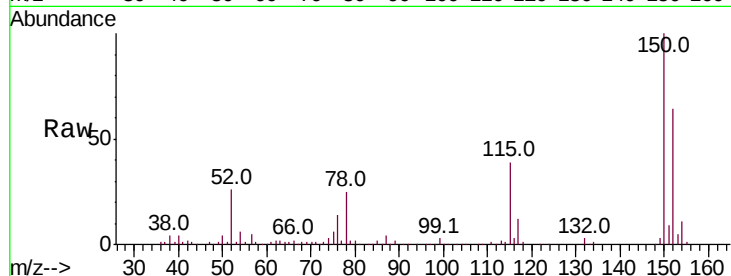
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Instrument :
BNA_F
ClientSampled :
SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.6	186.8
115	61.3	50.1	75.1

Manual Integrations
APPROVED

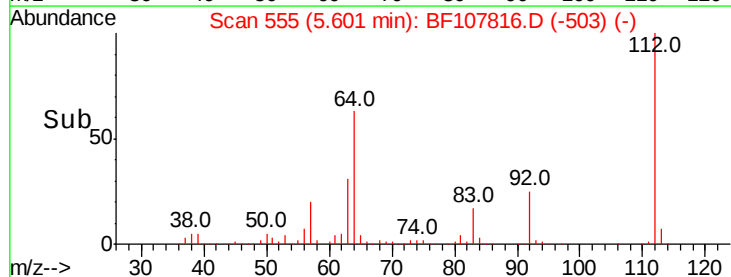
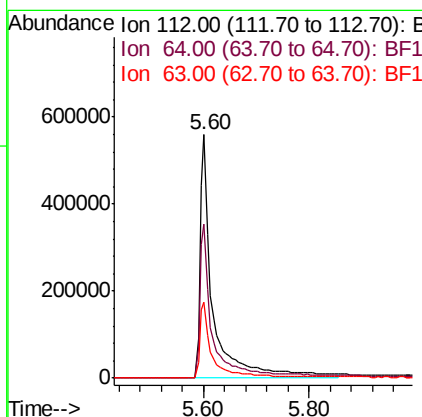
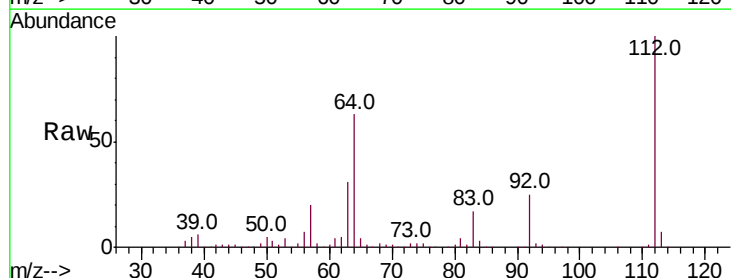
Sohil
7/31/2018 2:42:46 PM

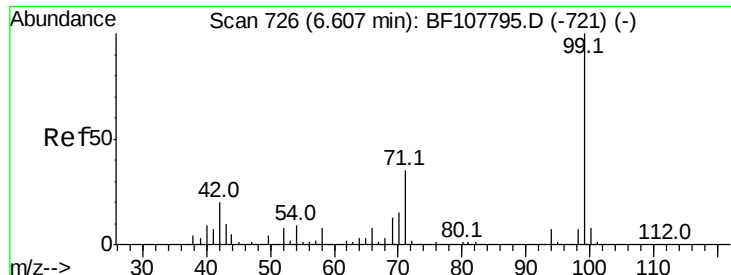


#5

2-Fluorophenol
Concen: 86.368 ng
RT: 5.60 min Scan# 555
Delta R.T. 0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.2	47.9	71.9
63	31.2	23.7	35.5





#7

Phenol-d6

Concen: 83.009 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Instrument :

BNA_F

ClientSampleId :

SB-5(3-5)

Tot Ion: 99 Resp: 1226536

Ion Ratio Lower Upper

99 100

42 18.9 14.5 21.7

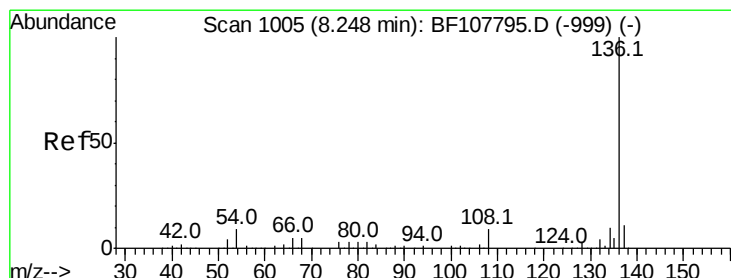
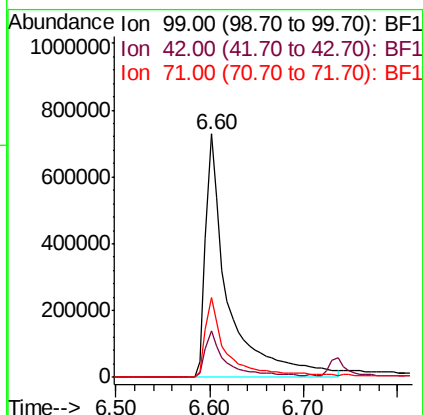
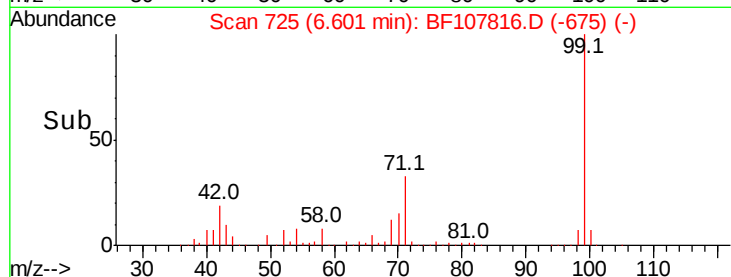
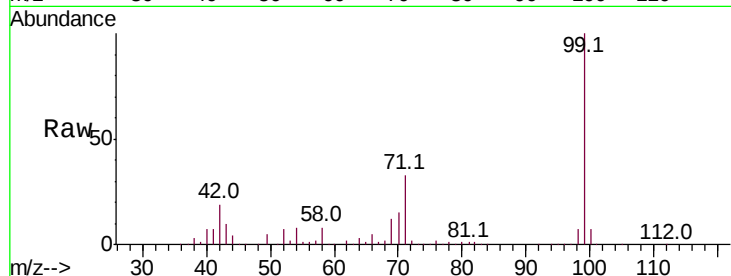
71 32.9 25.4 38.0

Manual Integrations

APPROVED

Sohil

7/31/2018 2:42:46 PM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Tgt Ion: 136 Resp: 796979

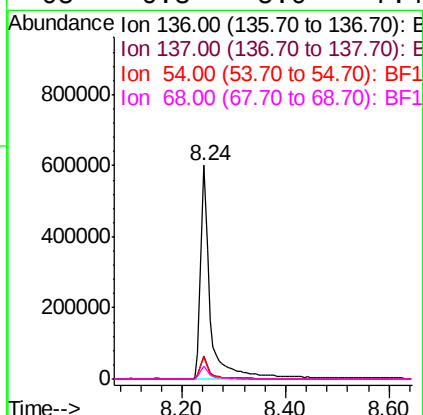
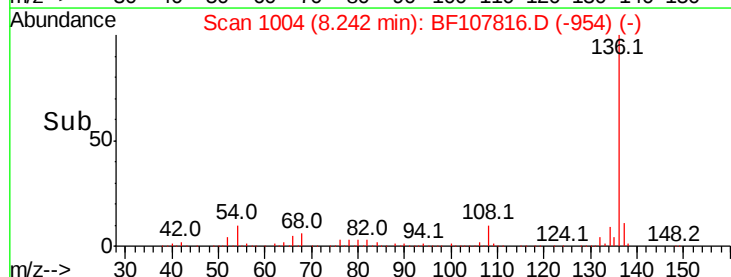
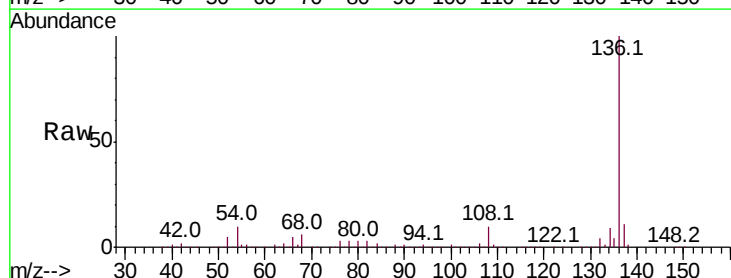
Ion Ratio Lower Upper

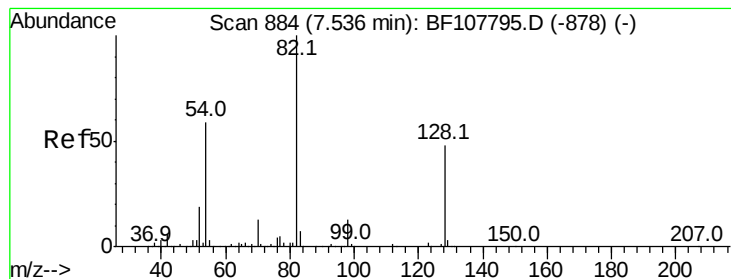
136 100

137 11.0 8.9 13.3

54 10.0 6.6 9.8#

68 6.3 5.0 7.4





#23

Nitrobenzene-d5

Concen: 58.594 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Instrument :

BNA_F

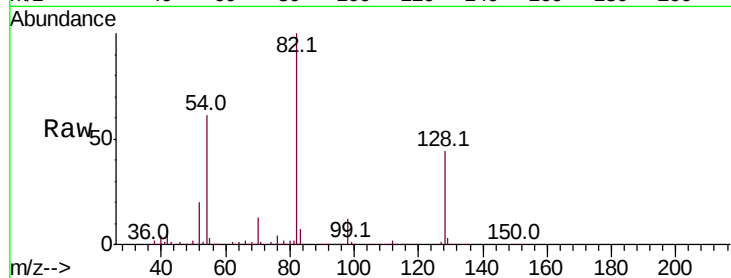
ClientSampleId :

SB-5(3-5)

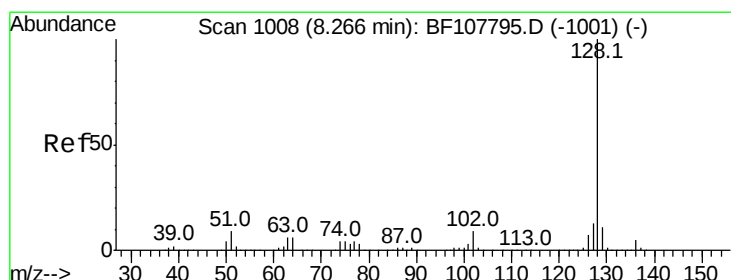
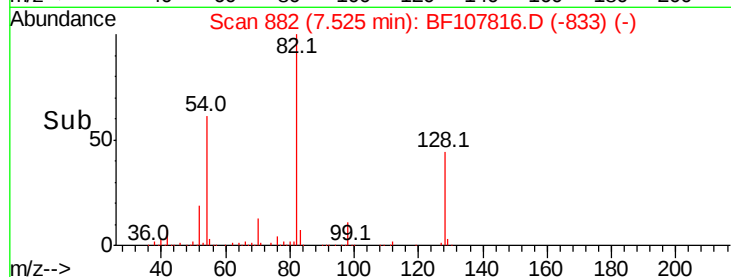
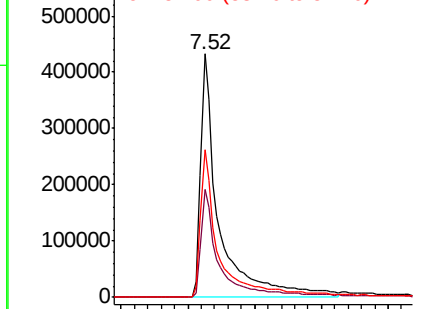
Tot Ion:	82	Resp:	810590
Ion Ratio	Lower	Upper	
82	100		
128	44.3	36.1	54.1
54	60.9	41.4	62.2

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:46 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: 5.634 ng

RT: 8.27 min Scan# 1008

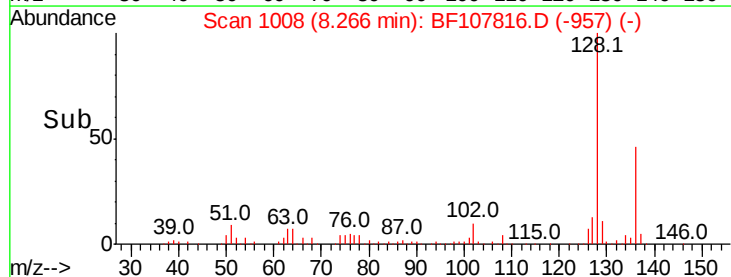
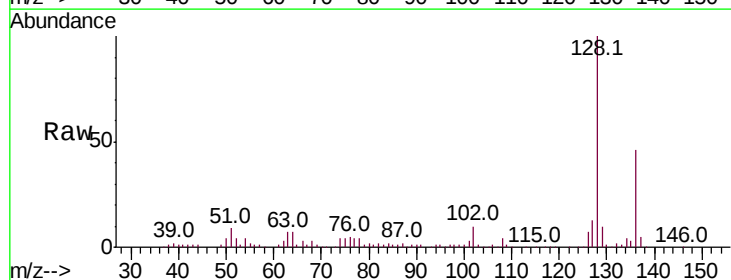
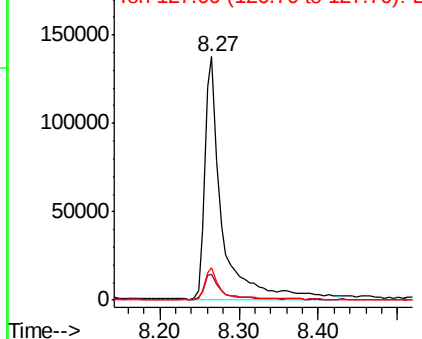
Delta R.T. 0.00 min

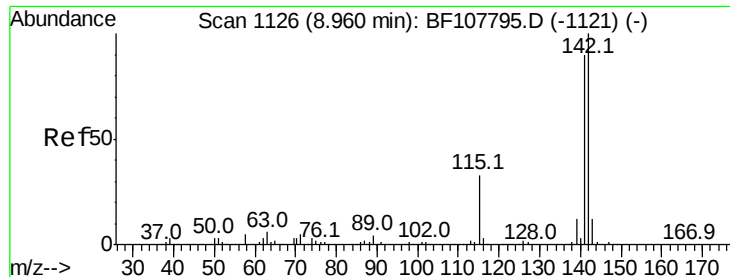
Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Tgt Ion:	128	Resp:	208716
Ion Ratio	Lower	Upper	
128	100		
129	10.5	8.8	13.2
127	13.1	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





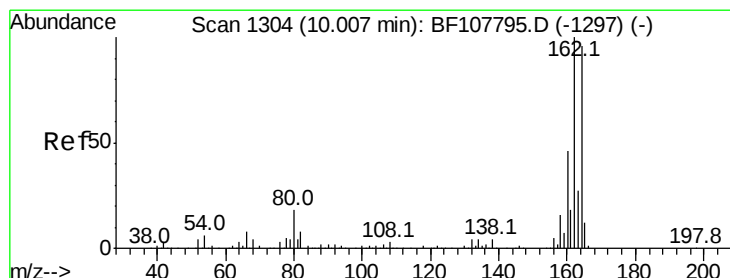
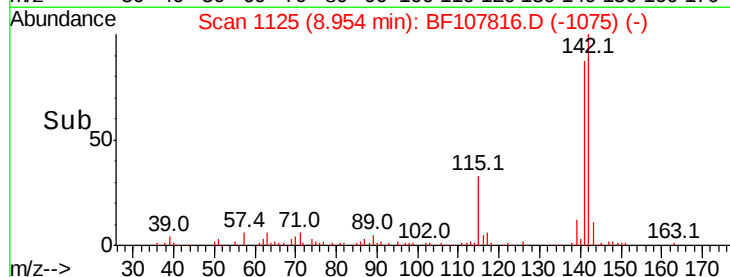
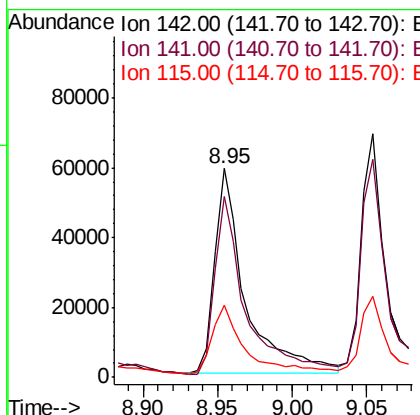
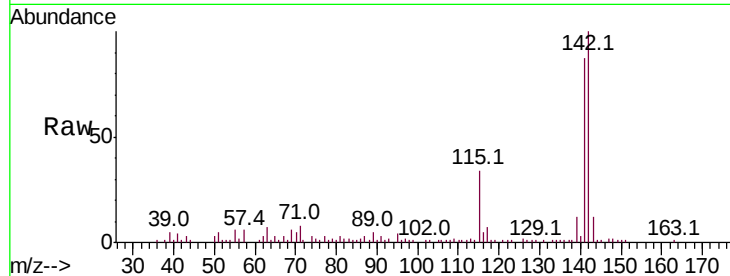
#37
2-Methylnaphthalene
Concen: 3.652 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Instrument :
BNA_F
ClientSampleId :
SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.8	70.8	106.2
115	34.4	26.1	39.1

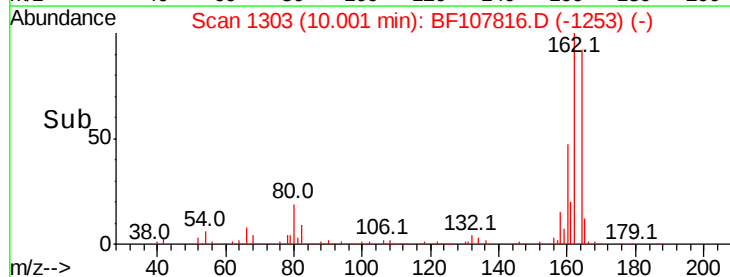
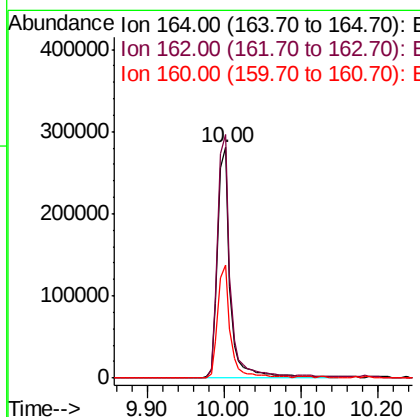
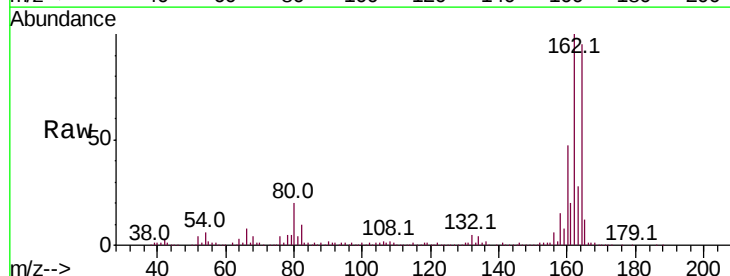
Manual Integrations
APPROVED

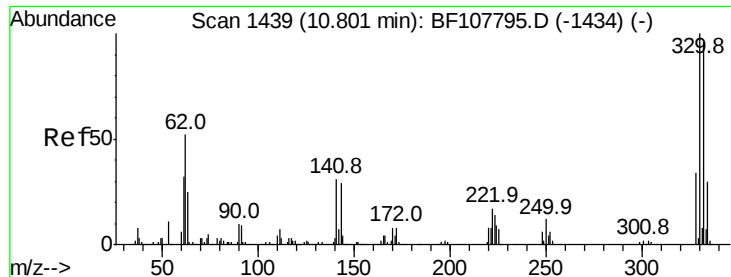
Sohil
7/31/2018 2:42:46 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	86.1	129.1
160	49.2	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 58.366 ng

RT: 10.80 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Instrument :

BNA_F

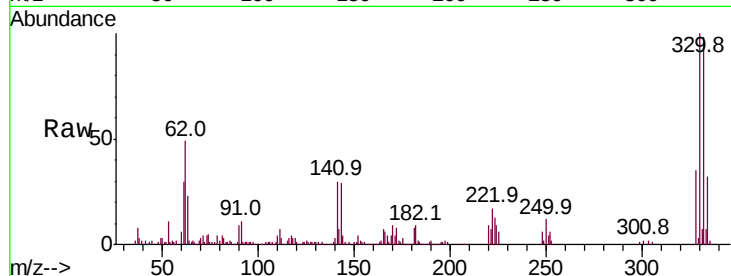
ClientSampled :

SB-5(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	253397		
332	95.2	77.0	115.6	
141	27.4	29.9	44.9#	

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:46 PM

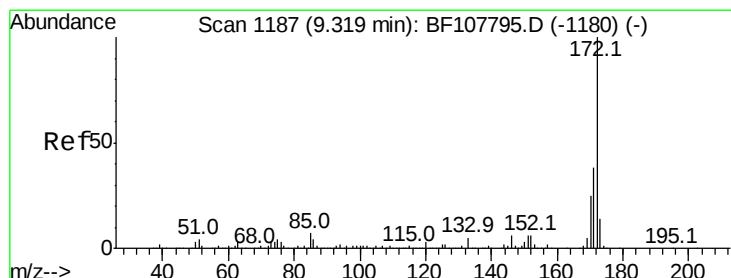
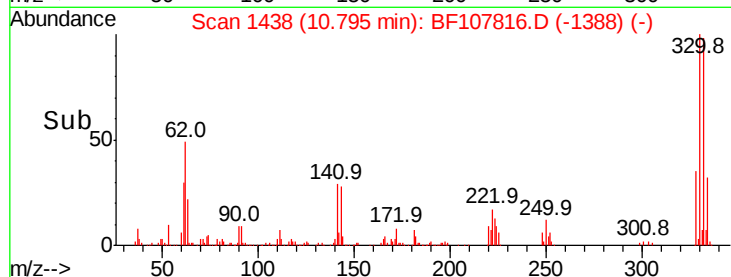
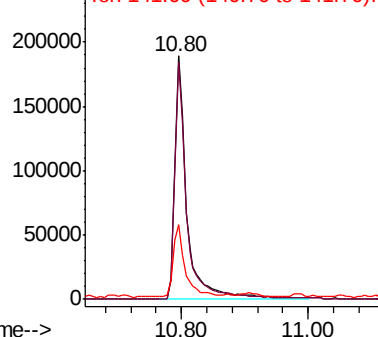


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 61.321 ng

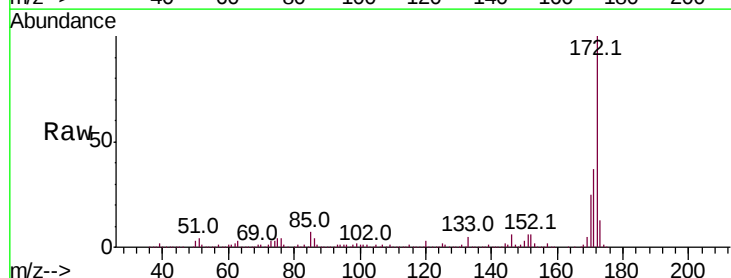
RT: 9.31 min Scan# 1186

Delta R.T. -0.01 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1406039		
171	36.8	29.7	44.5	
170	24.5	19.6	29.4	

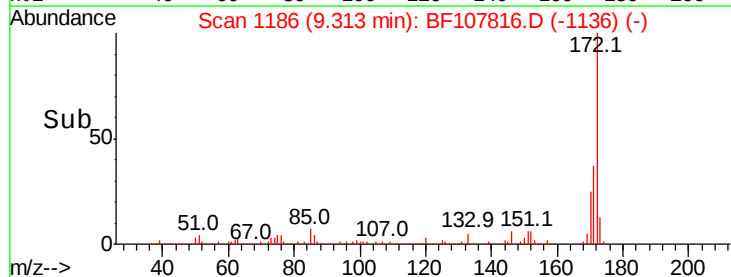
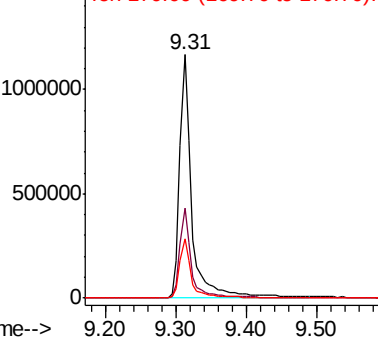


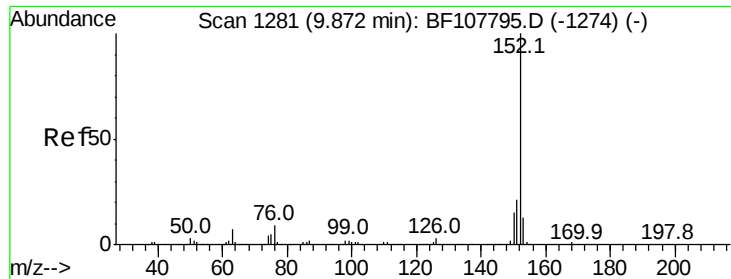
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





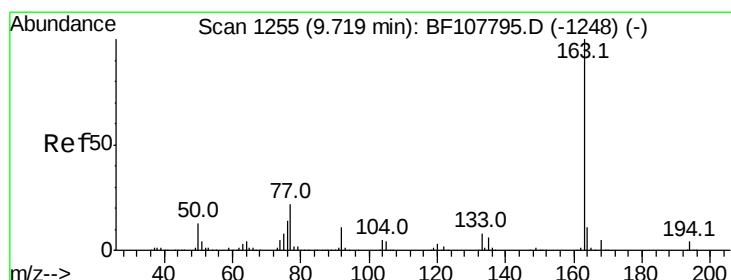
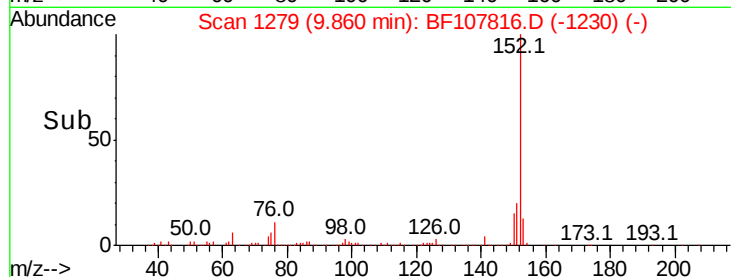
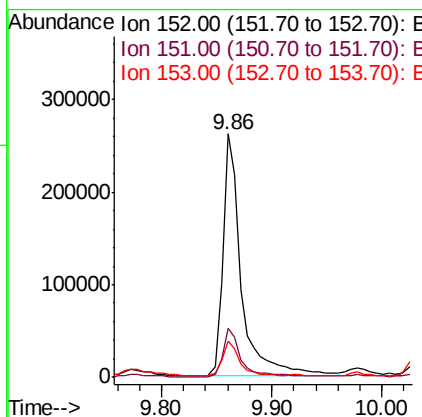
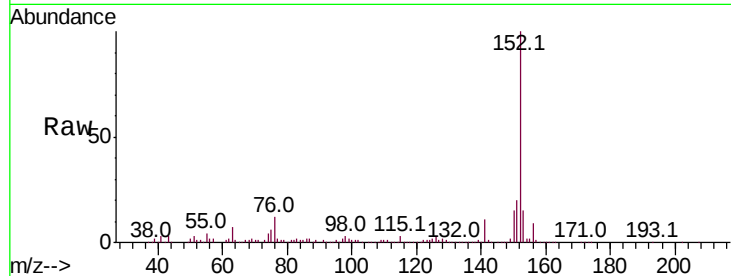
#48
Acenaphthylene
Concen: 9.004 ng
RT: 9.86 min Scan# 1279
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Instrument :
BNA_F
ClientSampleId :
SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.3	24.5
153	14.7	10.7	16.1

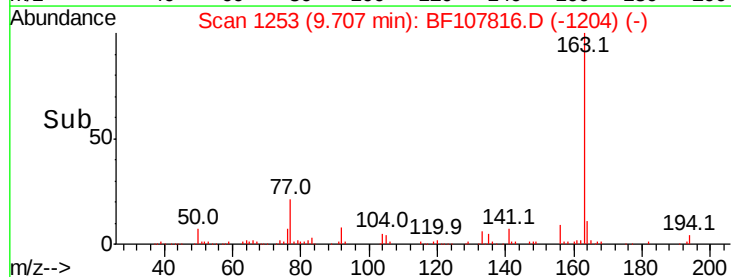
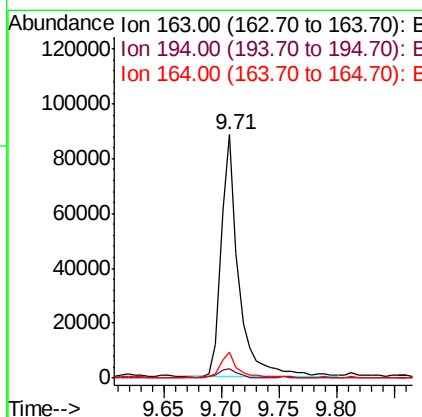
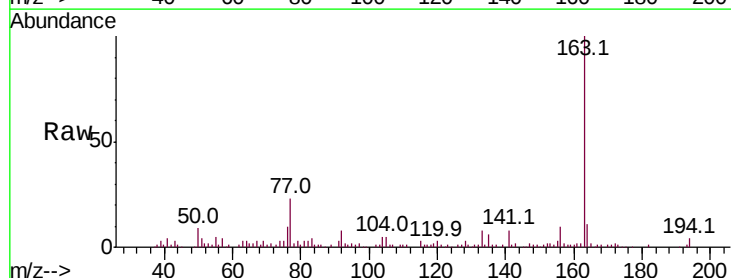
Manual Integrations
APPROVED

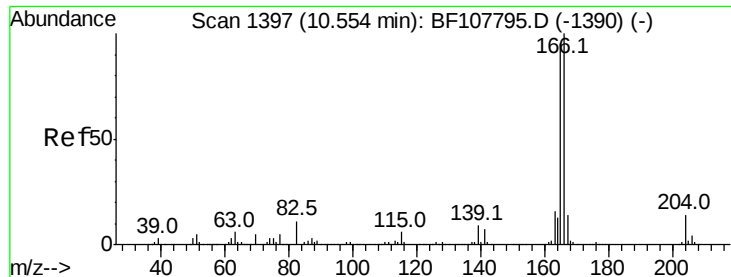
Sohil
7/31/2018 2:42:46 PM



#49
Dimethylphthalate
Concen: 3.816 ng
RT: 9.71 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.7	4.1
164	10.8	8.2	12.2





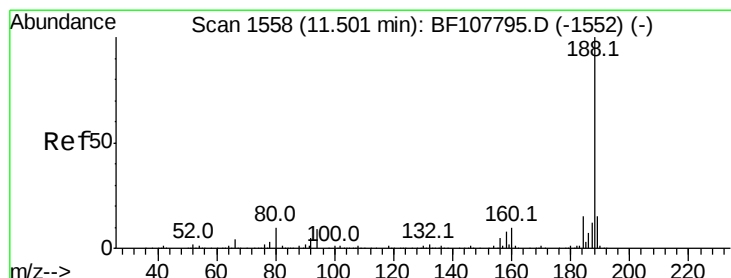
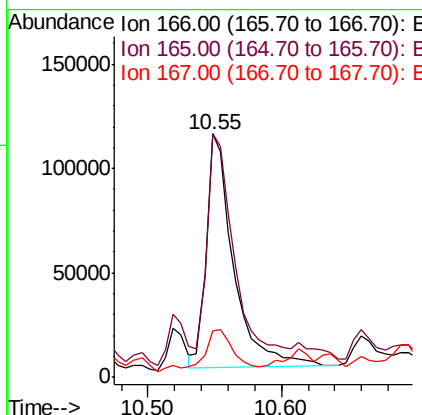
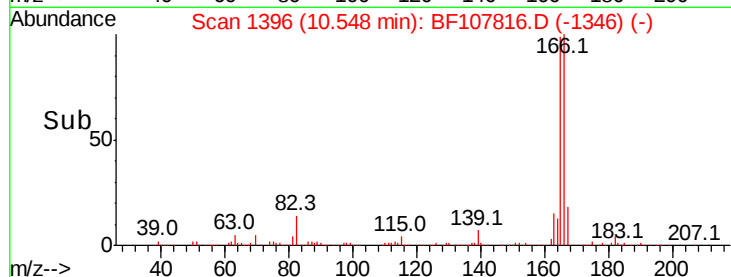
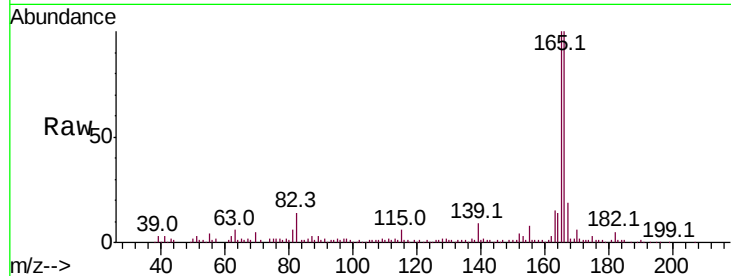
#57
Fluorene
 Concen: 6.685 ng
 RT: 10.55 min Scan# 1396
 Delta R.T. -0.01 min
 Lab File: BF107816.D
 Acq: 30 Jul 2018 22:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.8	119.8
167	19.3	10.6	16.0

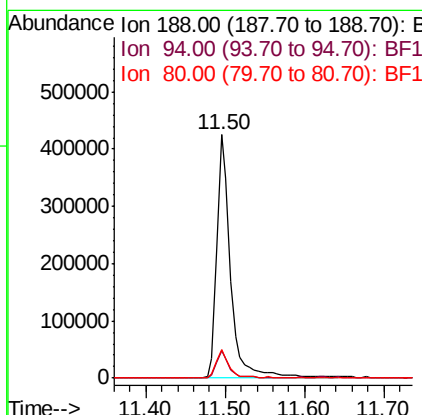
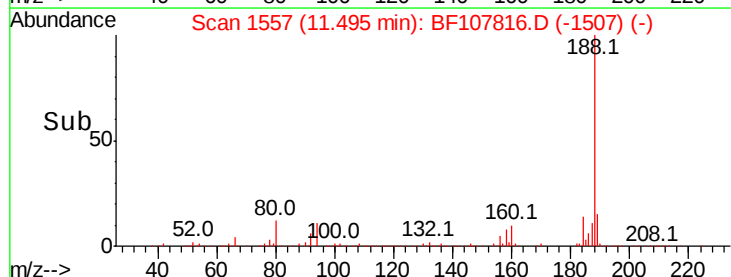
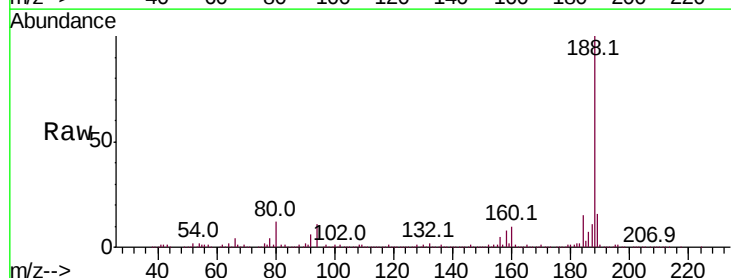
Manual Integrations
 APPROVED

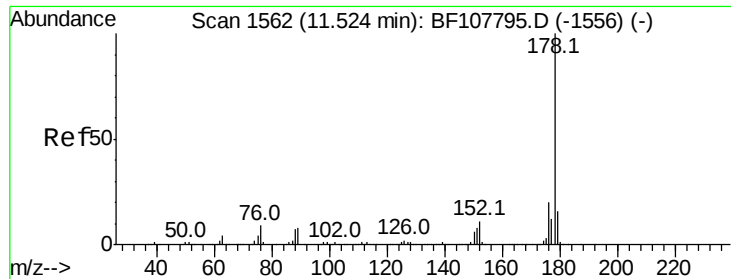
Sohil
 7/31/2018 2:42:46 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1557
 Delta R.T. -0.01 min
 Lab File: BF107816.D
 Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.3	8.5	12.7
80	11.9	9.2	13.8





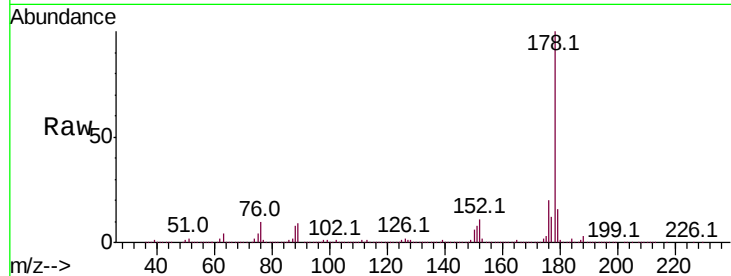
#70
Phenanthrene
Concen: 51.821 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Instrument :
BNA_F
ClientSampled :
SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	16.2	13.0	19.6

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:46 PM

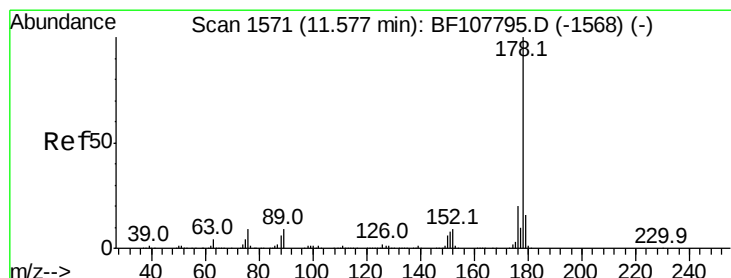
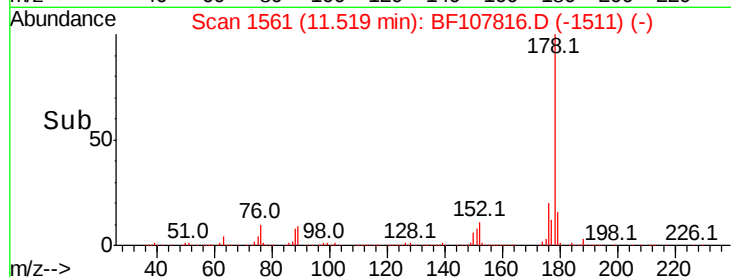
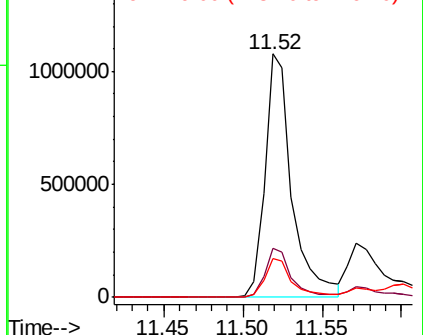


Abundance

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



#71
Anthracene
Concen: 15.779 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

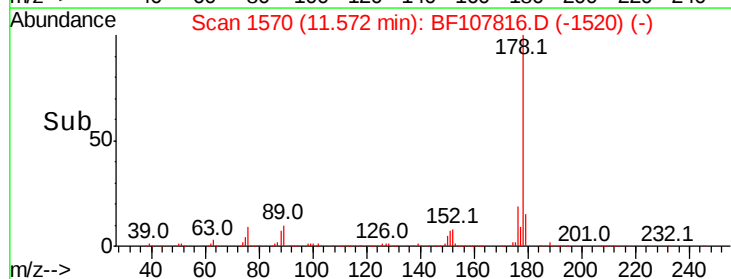
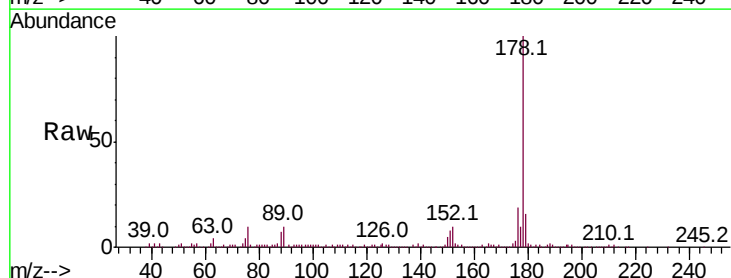
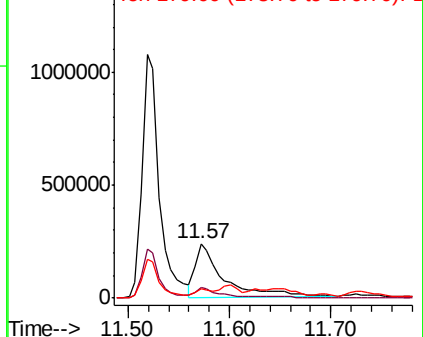
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	16.5	12.6	19.0

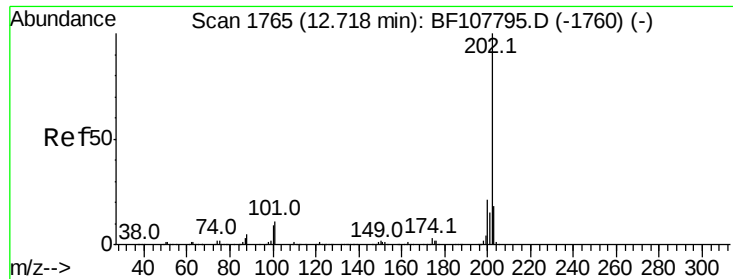
Abundance

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





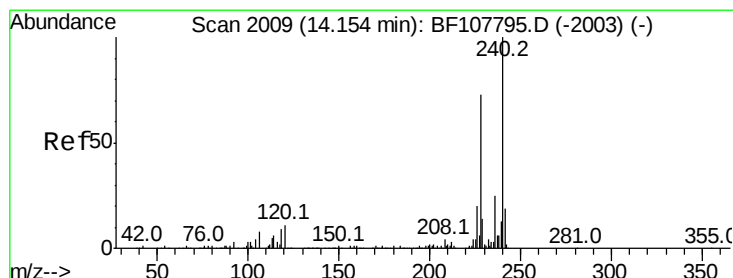
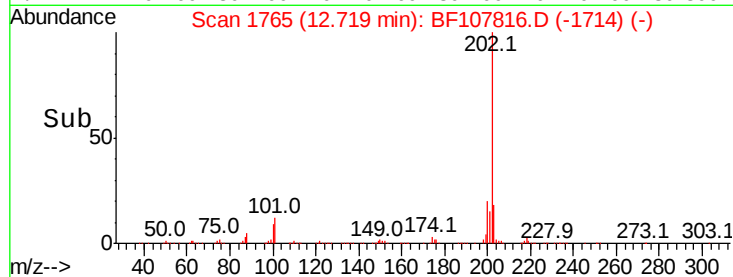
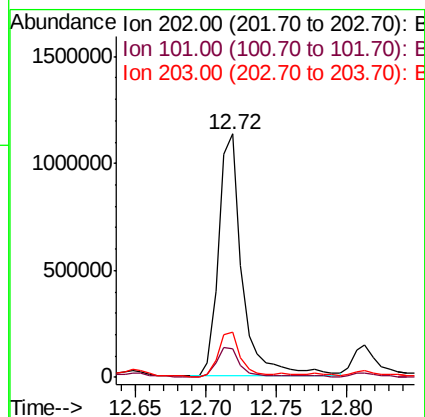
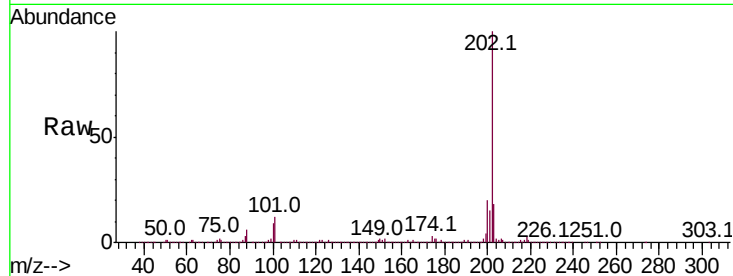
#74
 Fluoranthene
 Concen: 46.369 ng
 RT: 12.72 min Scan# 1765
 Delta R.T. 0.00 min
 Lab File: BF107816.D
 Acq: 30 Jul 2018 22:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	34.1
203	18.4	0.0	38.1

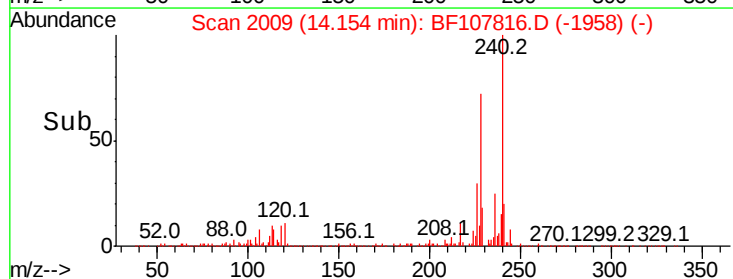
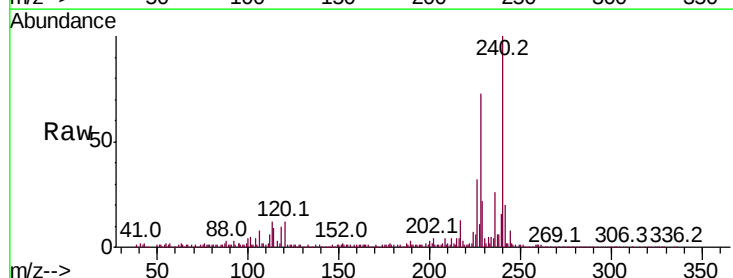
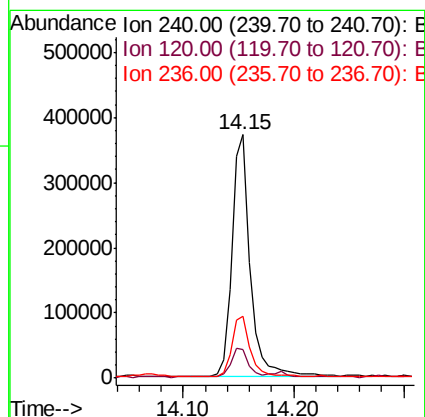
Manual Integrations
 APPROVED

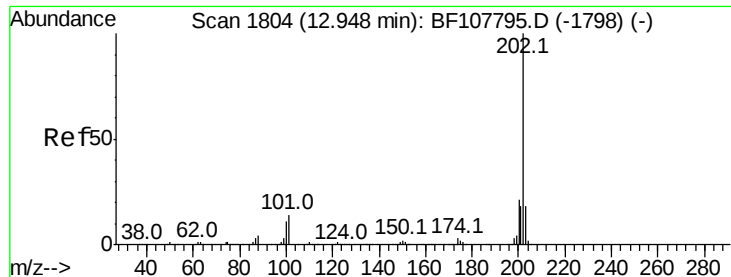
Sohil
 7/31/2018 2:42:46 PM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.15 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: BF107816.D
 Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.5	14.3
236	25.6	20.7	31.1





#77

Pvrene

Concen: 55.202 ng

RT: 12.95 min Scan# 1804

Delta R.T. 0.00 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Instrument :

BNA_F

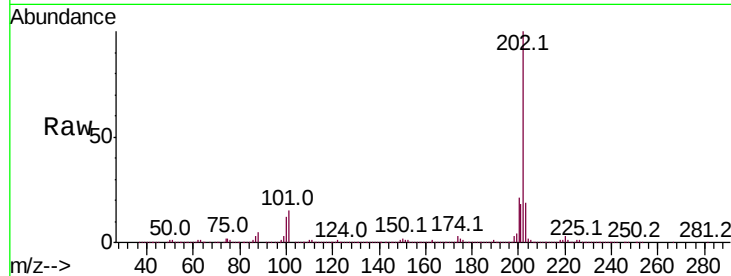
ClientSampleId :

SB-5(3-5)

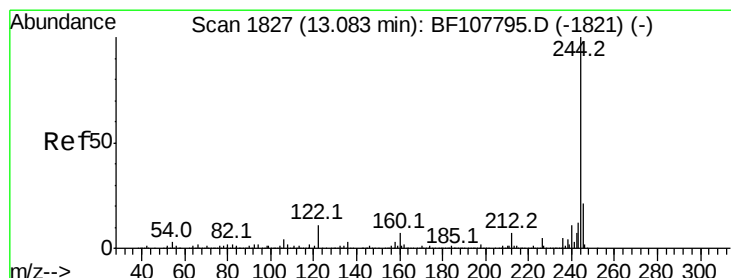
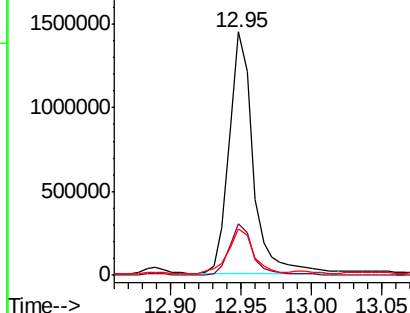
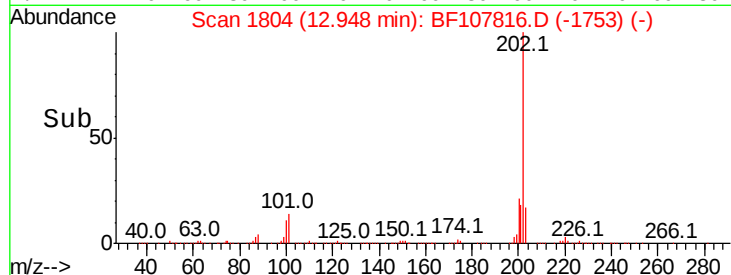
Tot Ion:	202	Resp:	1723697
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2
203	19.3	14.3	21.5

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:46 PM



Abundance Ion 202.00 (201.70 to 202.70): E
2000000
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 51.613 ng

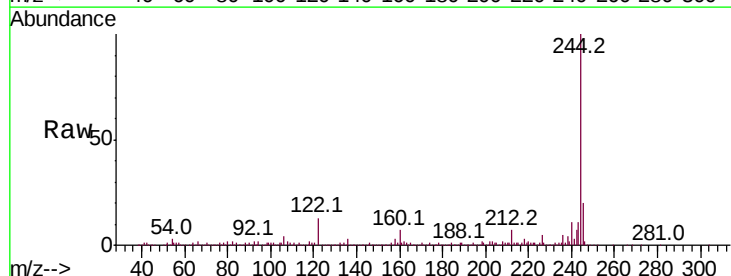
RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

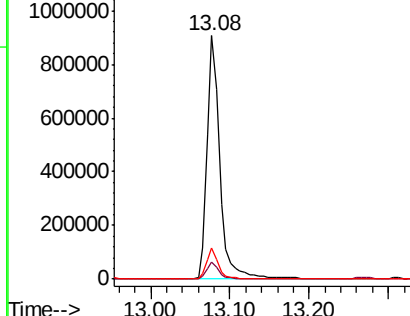
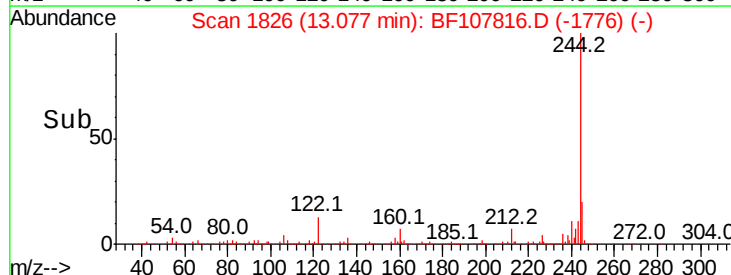
Lab File: BF107816.D

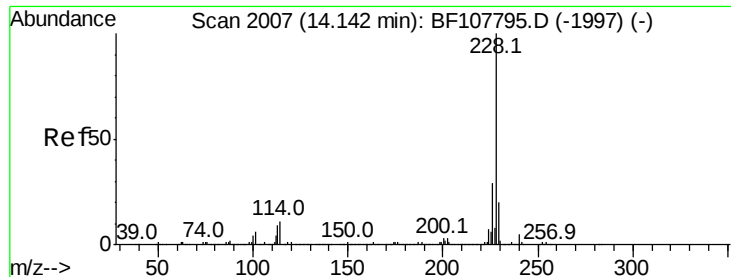
Acq: 30 Jul 2018 22:33

Tgt Ion:	244	Resp:	1032145
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	12.7	11.0	16.4



Abundance Ion 244.00 (243.70 to 244.70): E
1200000
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





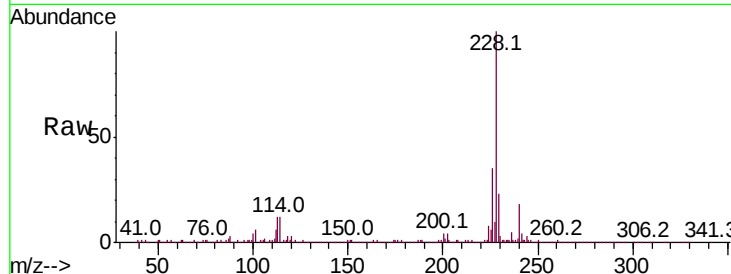
#80
Benzo(a)anthracene
Concen: 40.587 ng m
RT: 14.14 min Scan# 2007
Delta R.T. 0.00 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Instrument :
BNA_F
ClientSampleId :
SB-5(3-5)

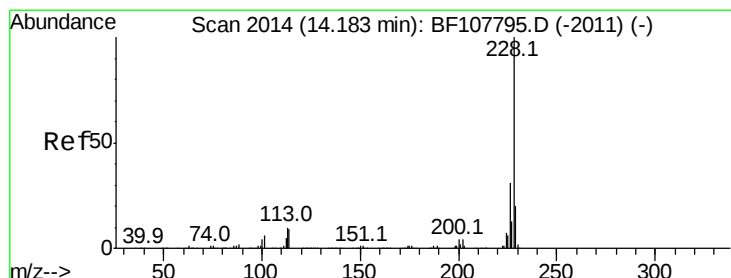
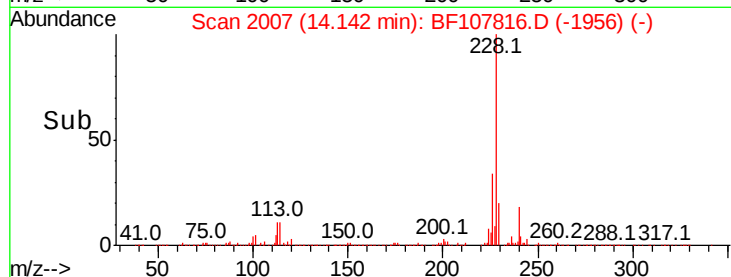
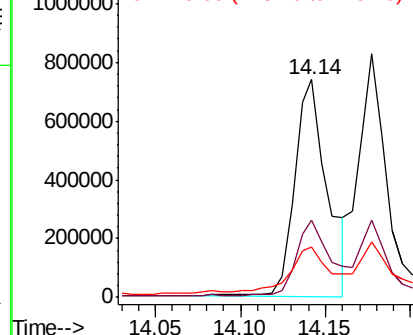
Tot Ion	Ratio	Lower	Upper
228	100		
226	35.5	22.6	33.8#
229	23.3	15.8	23.6

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:46 PM



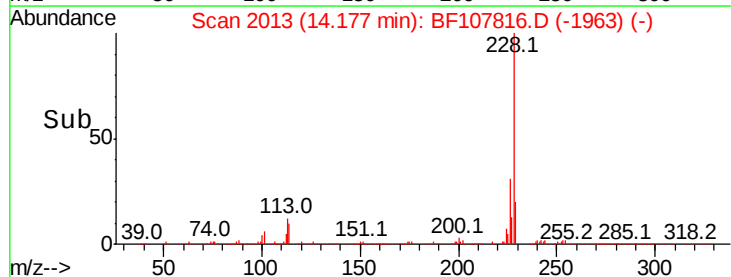
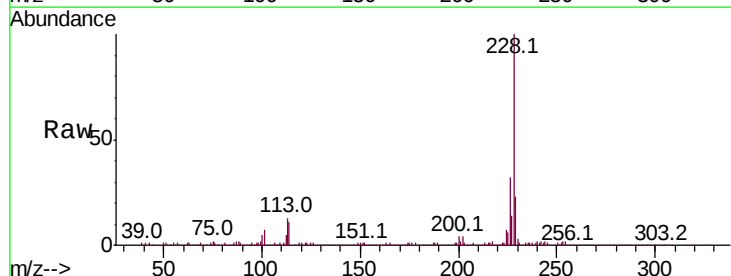
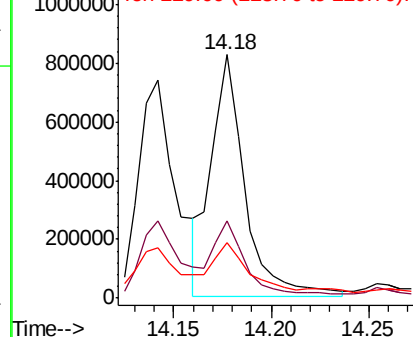
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

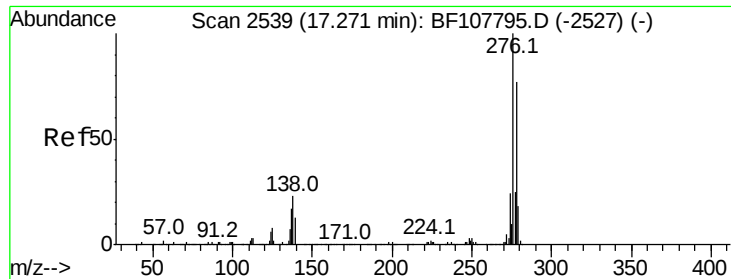


#82
Chrysene
Concen: 37.042 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.01 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.0	37.6
229	22.7	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





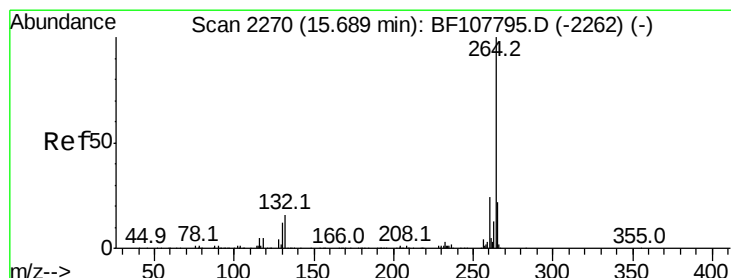
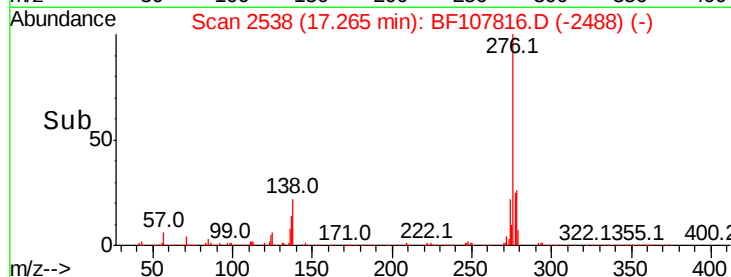
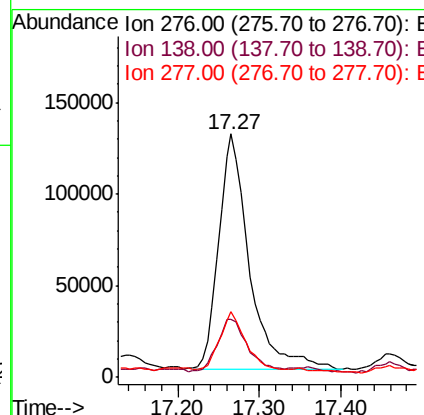
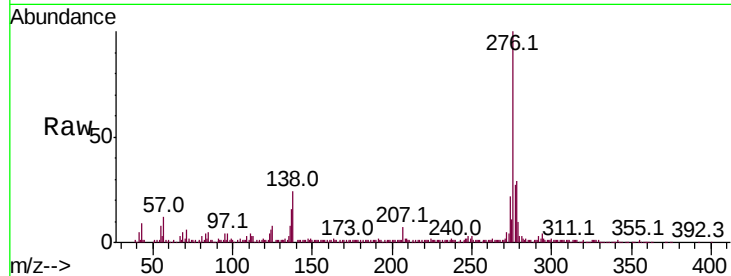
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 16.484 ng
 RT: 17.27 min Scan# 2538
 Delta R.T. -0.01 min
 Lab File: BF107816.D
 Acq: 30 Jul 2018 22:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.3	25.0	37.6#
277	20.5	20.1	30.1

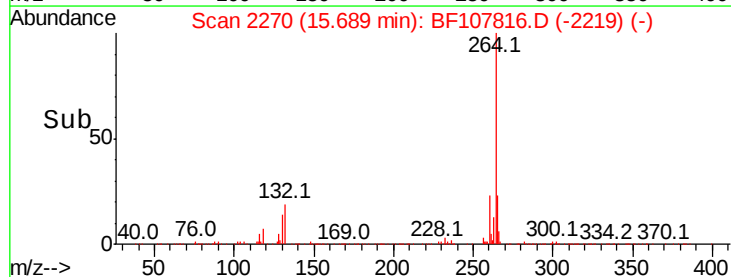
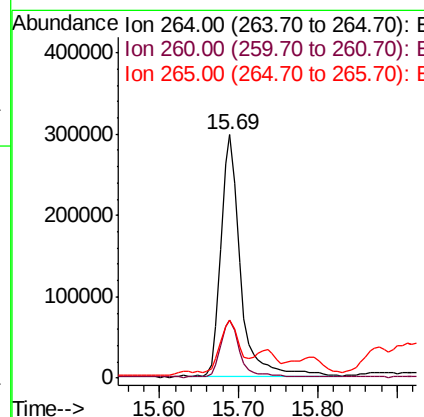
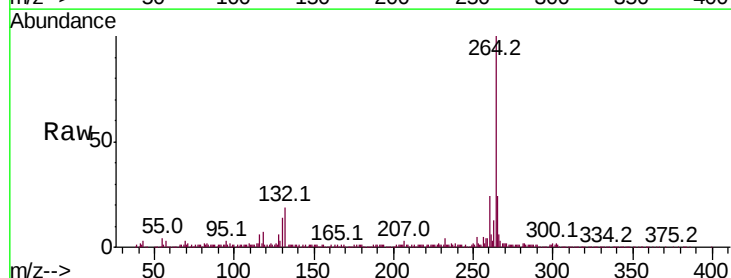
Manual Integrations
 APPROVED

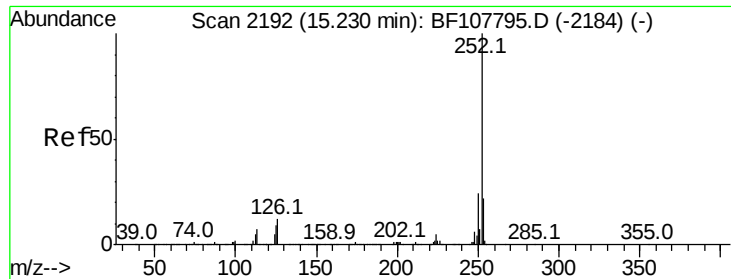
Sohil
 7/31/2018 2:42:46 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.69 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: BF107816.D
 Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	24.0	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 35.060 ng m

RT: 15.23 min Scan# 2192

Delta R.T. 0.00 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Instrument :

BNA_F

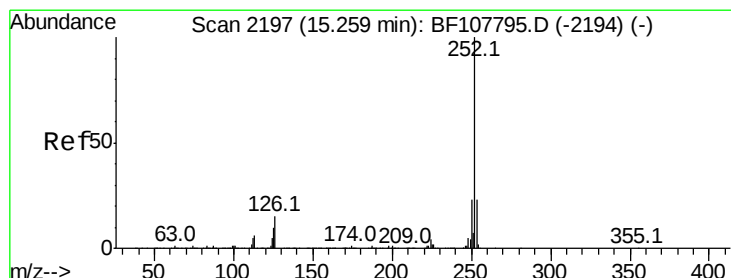
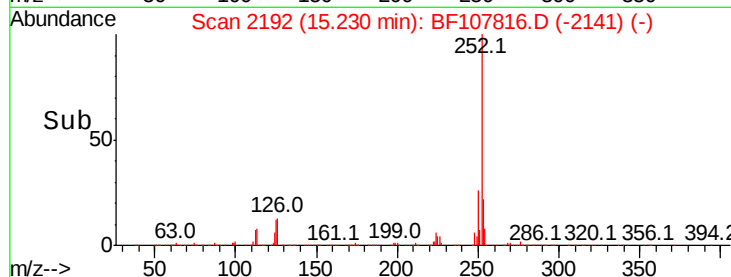
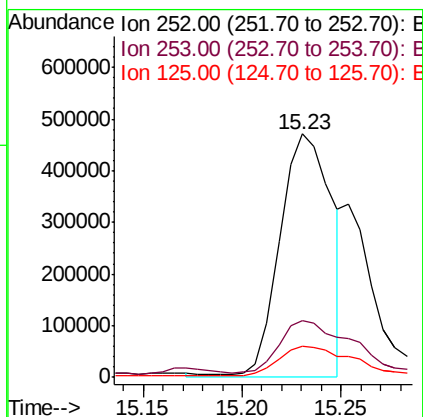
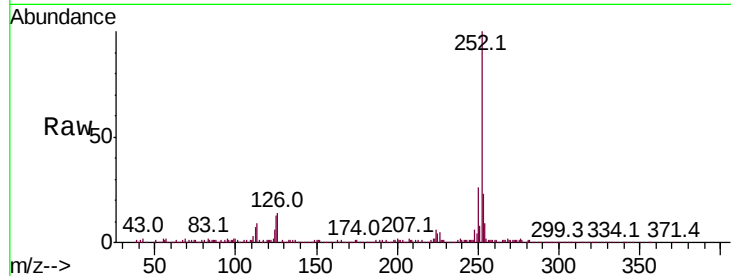
ClientSampleId :

SB-5(3-5)

Tot Ion:	252	Resp:	867995
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.0	25.6
125	12.6	9.0	13.6

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:46 PM



#88

Benzo(k)fluoranthene

Concen: 12.835 ng m

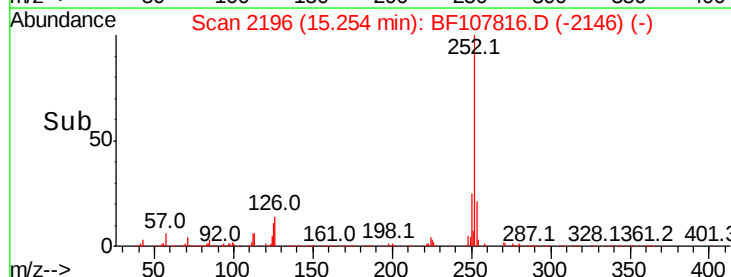
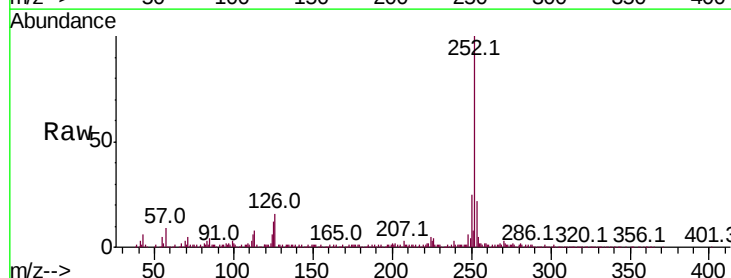
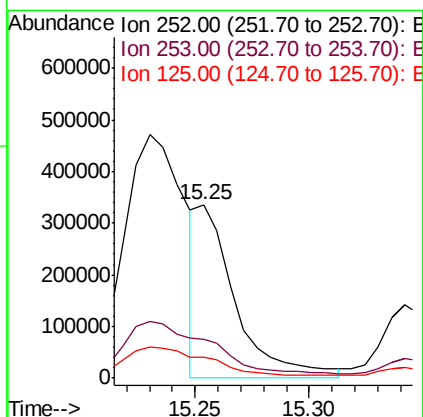
RT: 15.25 min Scan# 2196

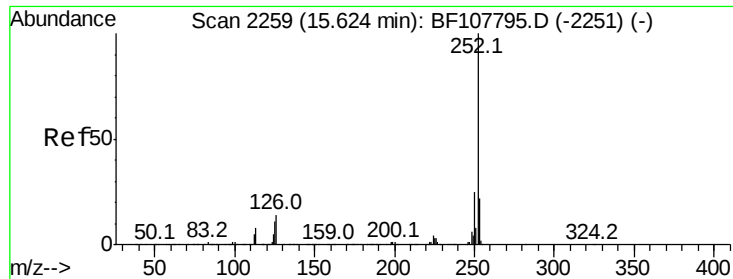
Delta R.T. -0.01 min

Lab File: BF107816.D

Acq: 30 Jul 2018 22:33

Tgt Ion:	252	Resp:	390134
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.9	26.9
125	12.1	10.2	15.2





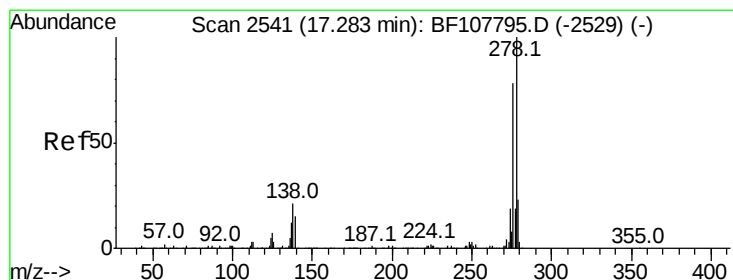
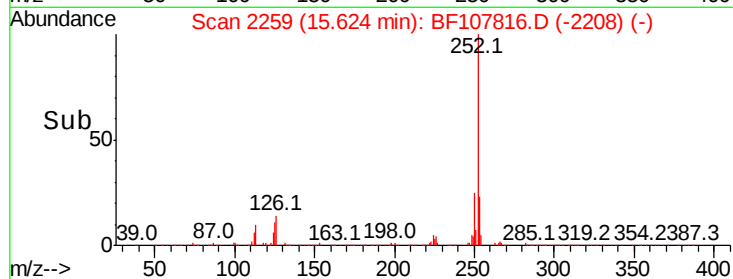
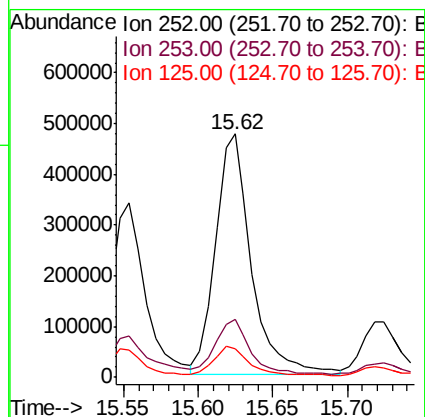
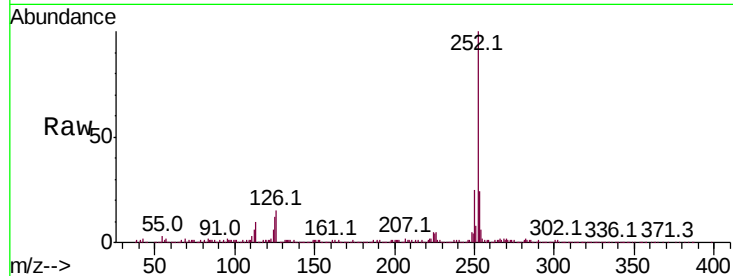
#89
Benzo(a)pyrene
Concen: 30.869 ng
RT: 15.62 min Scan# 2259
Delta R.T. 0.00 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Instrument :
BNA_F
ClientSampleId :
SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.1	25.7
125	11.7	9.8	14.6

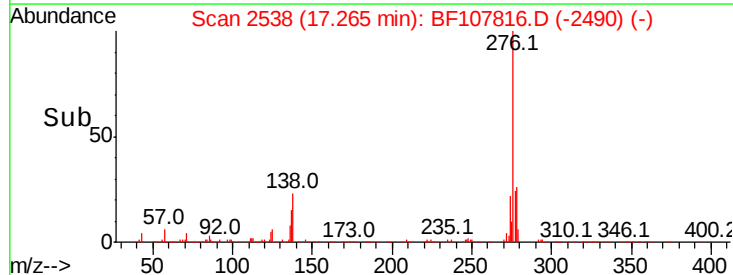
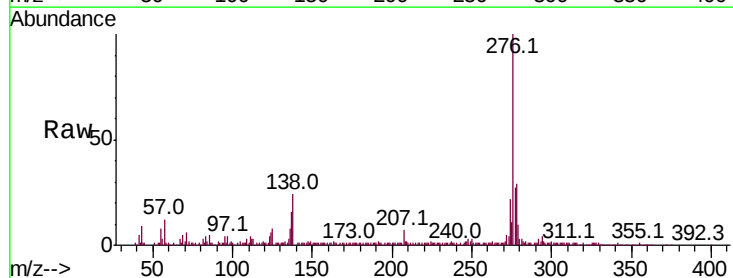
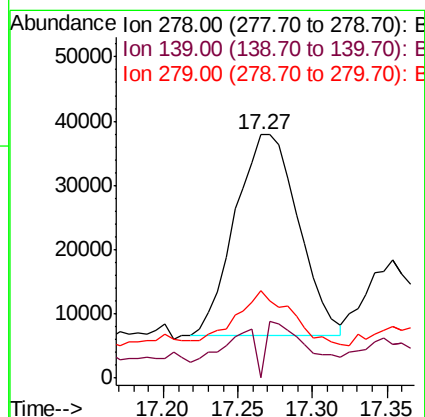
Manual Integrations
APPROVED

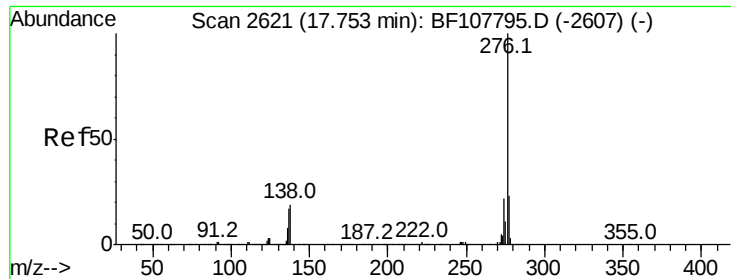
Sohil
7/31/2018 2:42:46 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.154 ng
RT: 17.27 min Scan# 2538
Delta R.T. -0.02 min
Lab File: BF107816.D
Acq: 30 Jul 2018 22:33

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	36.1	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 14.621 ng
 RT: 17.75 min Scan# 2620
 Delta R.T. -0.01 min
 Lab File: BF107816.D
 Acq: 30 Jul 2018 22:33

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(3-5)

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.9	17.9	26.9
138	23.1	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 7/31/2018 2:42:46 PM

