

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
 Data File : BF102312.D
 Acq On : 22 Jan 2018 21:10
 Operator : SJ/JU
 Sample : J1238-03
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-07-0-2.0

Manual Integrations
 APPROVED

Sohil
 1/23/2018 12:46:46 PM

Quant Time: Jan 23 11:16:59 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 22 13:38:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	134117	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	507924	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	199549	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	309746	20.00	ng	0.00
75) Chrysene-d12	13.87	240	270781	20.00	ng	0.00
86) Perylene-d12	15.30	264	224545	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	891976	100.84	ng	0.00
7) Phenol-d6	6.36	99	1033461	96.91	ng	0.00
23) Nitrobenzene-d5	7.28	82	628638	71.12	ng	0.00
41) 2,4,6-Tribromophenol	10.54	330	176757	89.40	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	960782	70.79	ng	0.00
78) Terphenyl-d14	12.82	244	751695	62.58	ng	0.00
Target Compounds						
10) Phenol	6.37	94	40828	3.507	ng	96
31) Naphthalene	8.02	128	202153	7.971	ng	99
37) 2-Methylnaphthalene	8.71	142	47358	2.804	ng	98
49) Dimethylphthalate	9.47	163	134342	8.145	ng	99
51) Acenaphthene	9.78	154	104593	8.288	ng	100
54) Dibenzofuran	9.95	168	123014	7.203	ng	97
57) Fluorene	10.30	166	159315	11.772	ng	97
70) Phenanthrene	11.26	178	1001339	55.477	ng	99
71) Anthracene	11.31	178	433372	23.523	ng	99
72) Carbazole	11.47	167	165360	9.200	ng	99
74) Fluoranthene	12.45	202	1213978	65.955	ng	100
77) Pyrene	12.68	202	1124607	53.717	ng	100
80) Benzo(a)anthracene	13.86	228	542187	32.523	ng	97
82) Chrysene	13.90	228	496679	29.338	ng	98
85) Indeno(1,2,3-cd)pyrene	16.69	276	182708	13.068	ng	94
87) Benzo(b)fluoranthene	14.90	252	613635m	42.163	ng	
88) Benzo(k)fluoranthene	14.92	252	136199m	9.905	ng	
89) Benzo(a)pyrene	15.24	252	382285	29.124	ng	95
90) Dibenzo(a,h)anthracene	16.70	278	44623m	4.197	ng	
91) Benzo(a,h,i)perylene	17.11	276	160436	15.282	ng	94

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

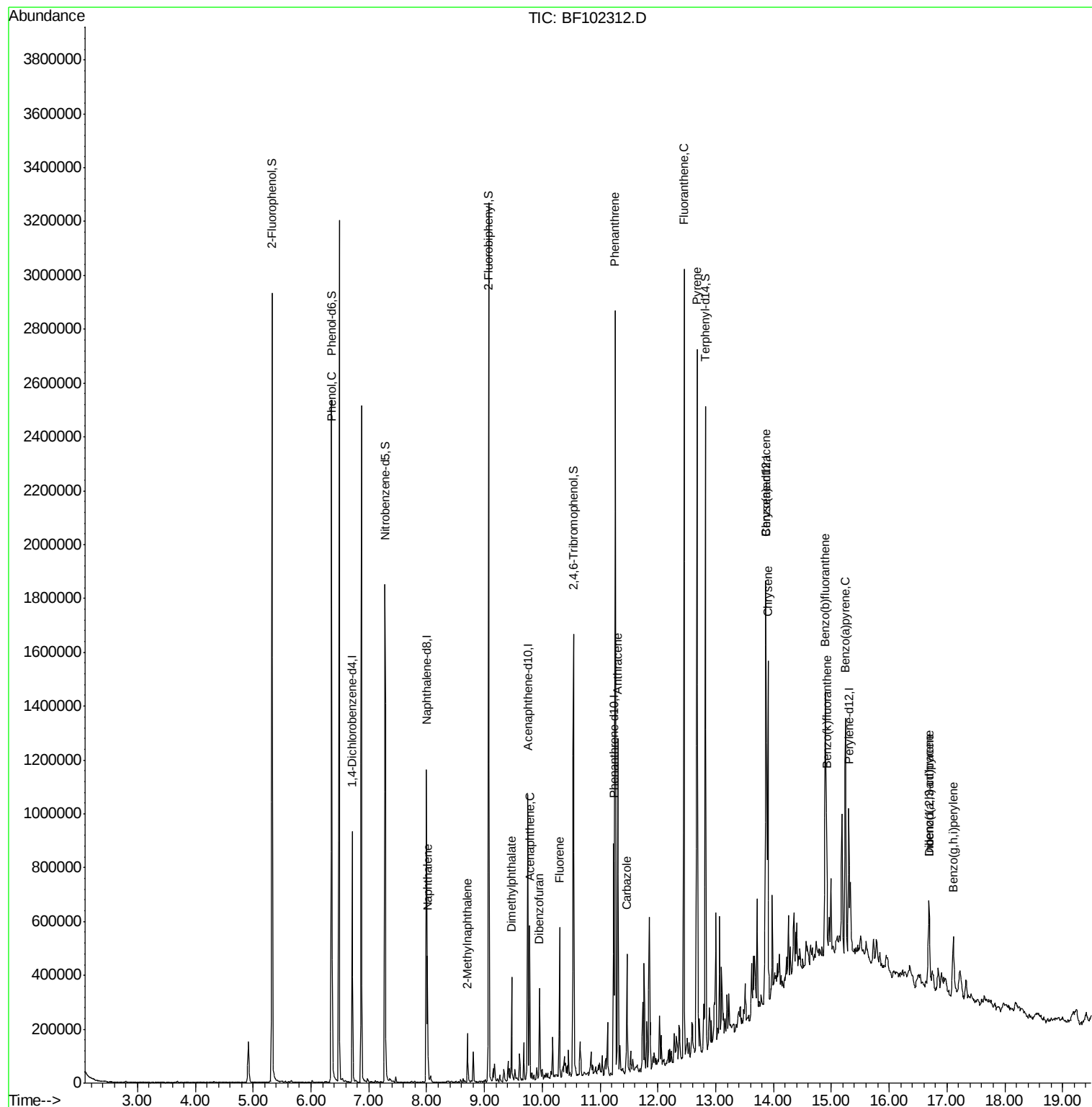
Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
Data File : BF102312.D
Acq On : 22 Jan 2018 21:10
Operator : SJ/JU
Sample : J1238-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

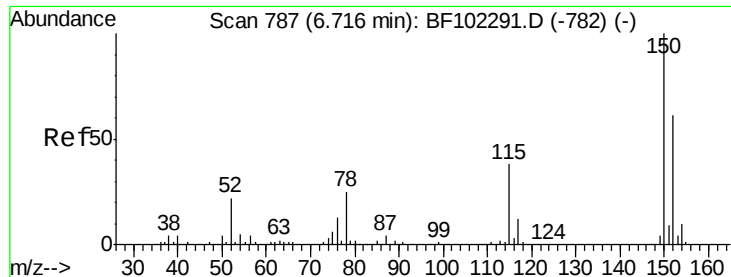
Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM

Quant Time: Jan 23 11:16:59 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 22 13:38:42 2018
Response via : Initial Calibration





#1

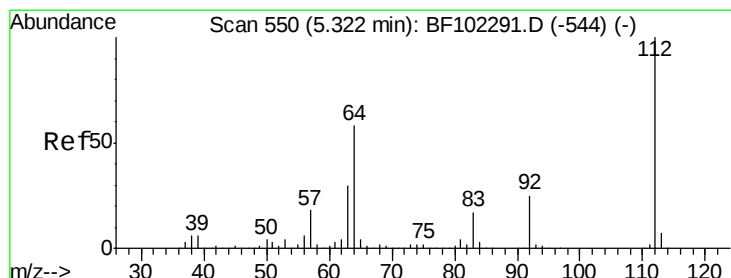
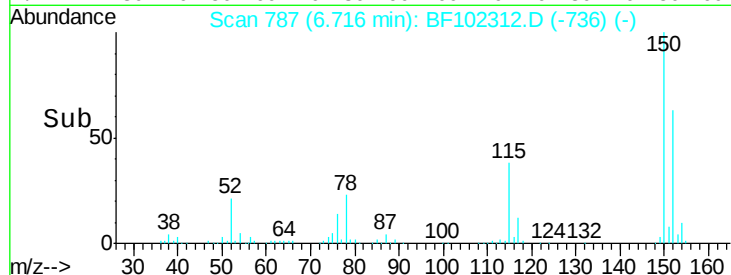
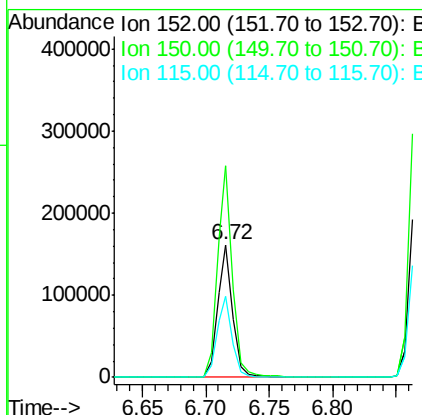
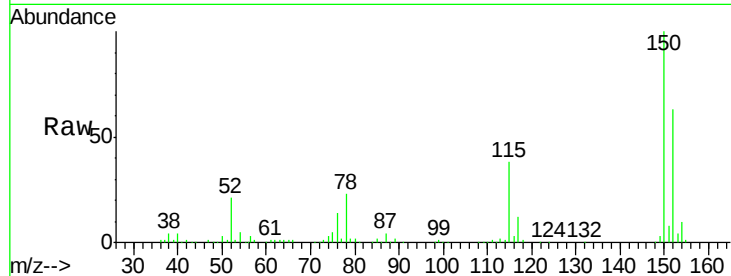
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	124.6	186.8
115	61.1	50.1	75.1

Manual Integrations
APPROVED

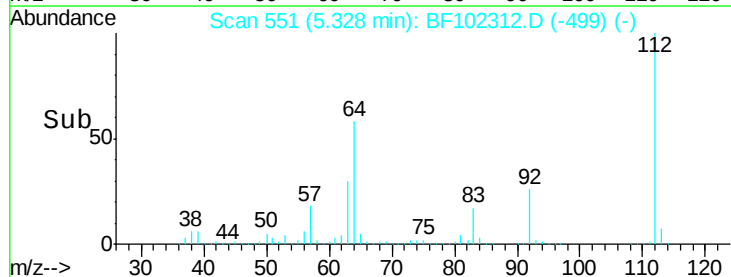
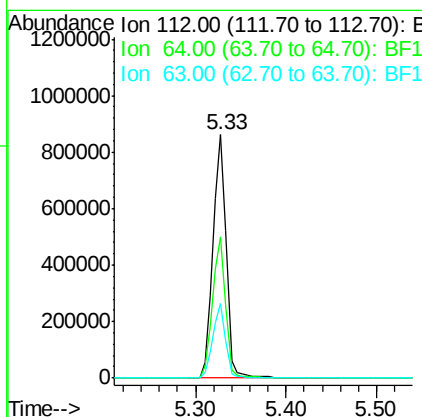
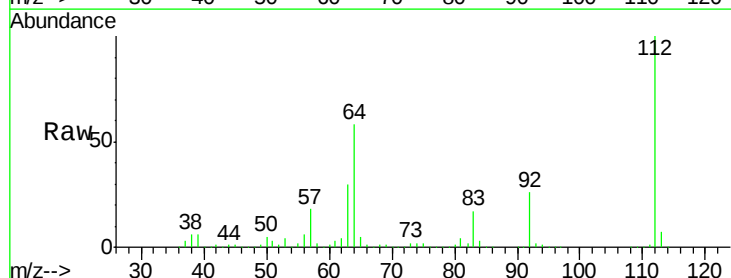
Sohil
1/23/2018 12:46:46 PM

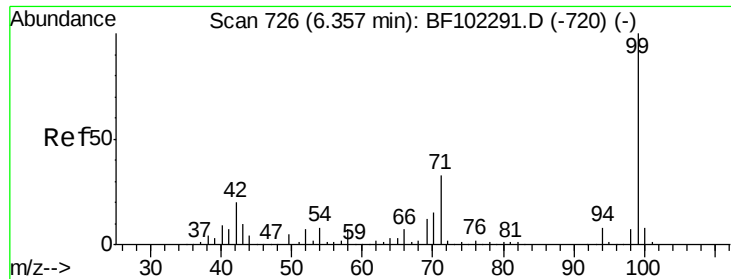


#5

2-Fluorophenol
Concen: 100.842 ng
RT: 5.33 min Scan# 551
Delta R.T. 0.01 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.9	71.9
63	30.4	23.7	35.5





#7

Phenol-d6

Concen: 96.913 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.00 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

Tot Ion: 99 Resp: 1033461

Ion Ratio Lower Upper

99 100

42 19.5 14.5 21.7

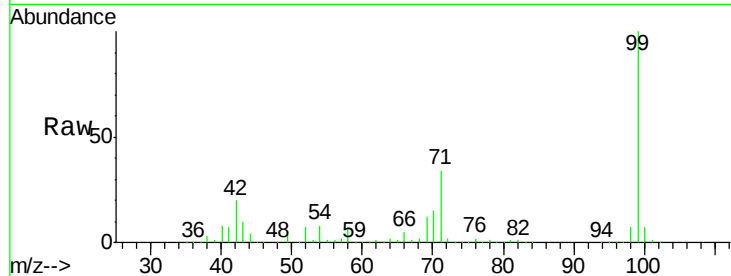
71 33.9 25.4 38.0

Manual Integrations

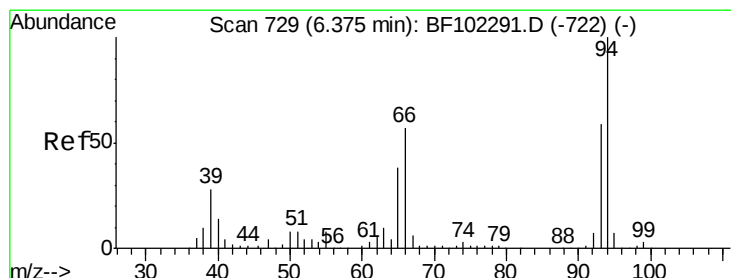
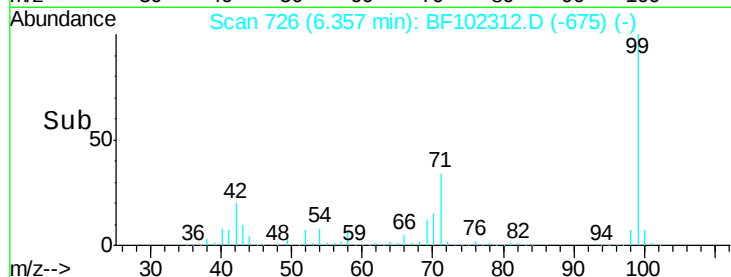
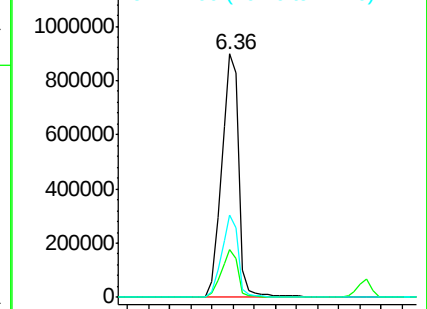
APPROVED

Sohil

1/23/2018 12:46:46 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.507 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

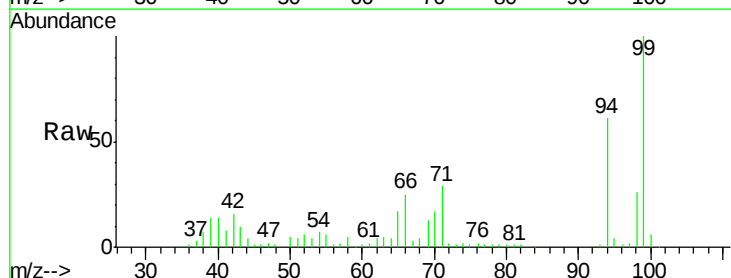
Tgt Ion: 94 Resp: 40828

Ion Ratio Lower Upper

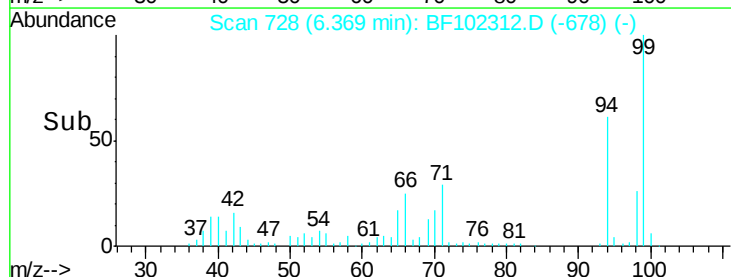
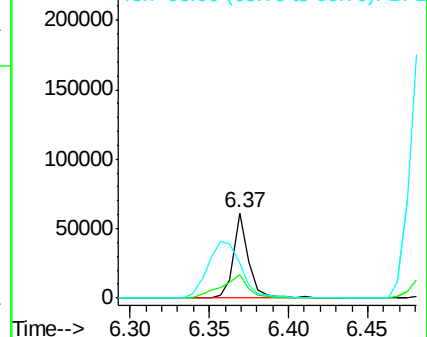
94 100

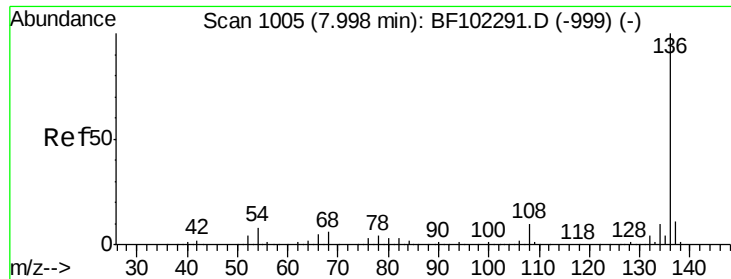
65 27.6 7.9 47.9

66 40.6 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





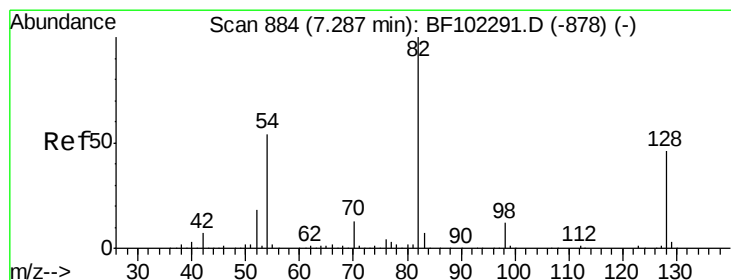
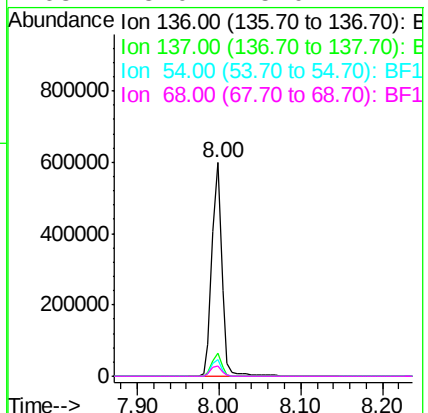
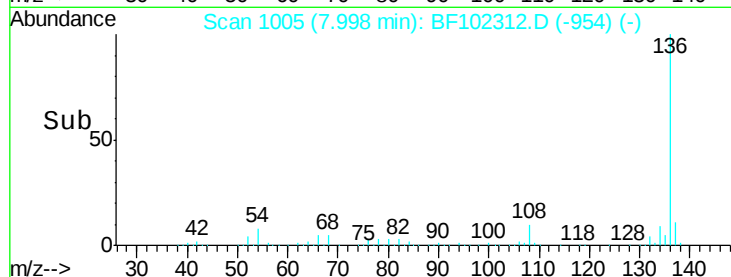
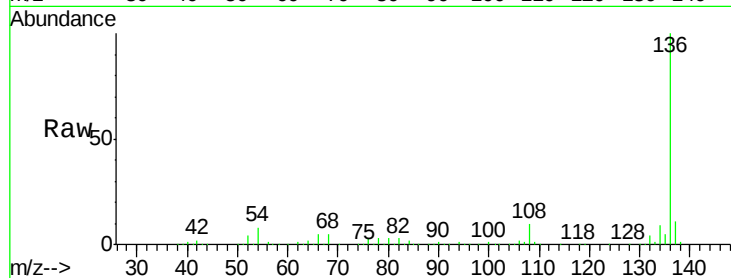
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	10.9	8.9	13.3		
54	7.8	6.6	9.8		
68	5.0	5.0	7.4		

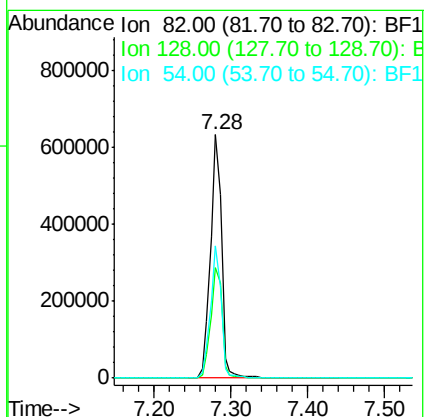
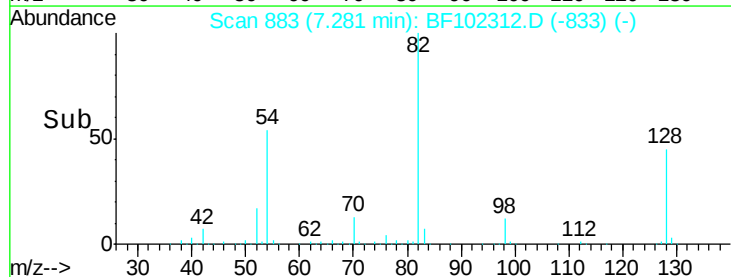
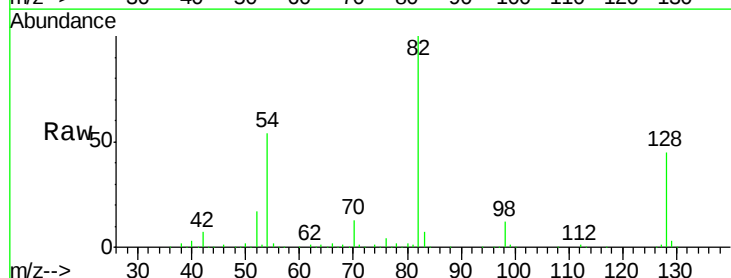
Manual Integrations
APPROVED

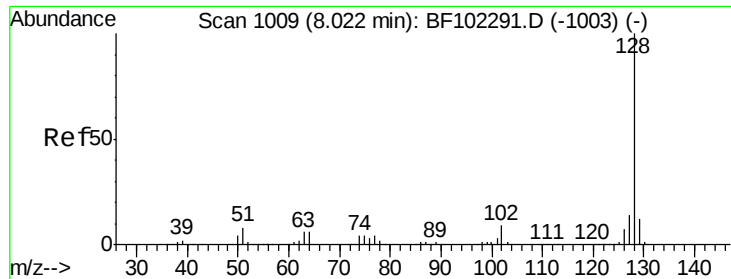
Sohil
1/23/2018 12:46:46 PM



#23
Nitrobenzene-d5
Concen: 71.125 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

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





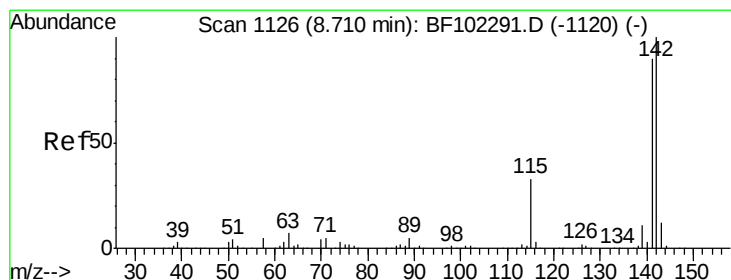
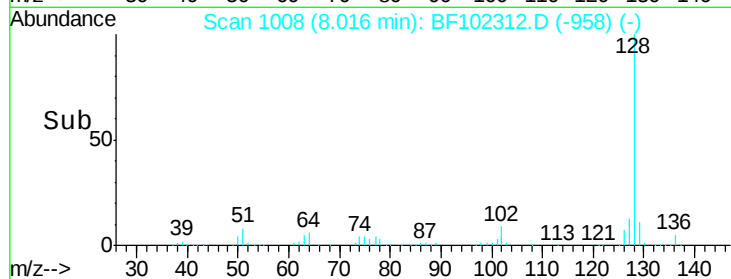
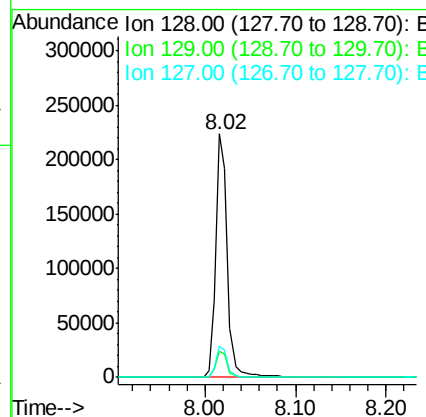
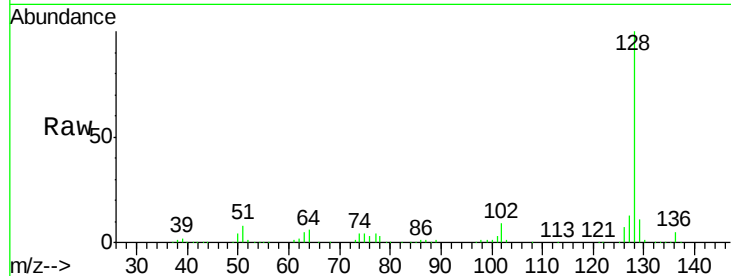
#31
Naphthalene
Concen: 7.971 ng
RT: 8.02 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Tot Ion	Ratio	Resp	Lower	Upper
128	100	202153		
129	10.6		8.8	13.2
127	13.0		10.9	16.3

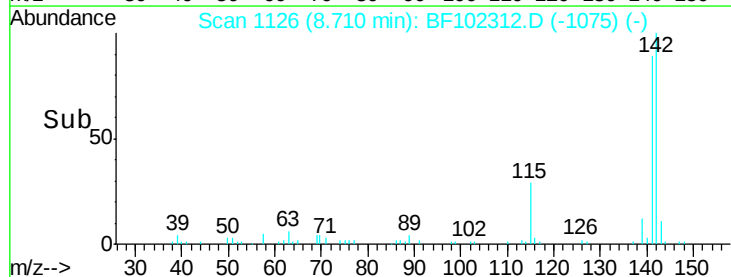
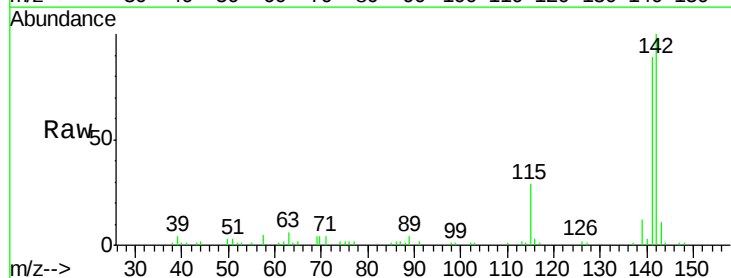
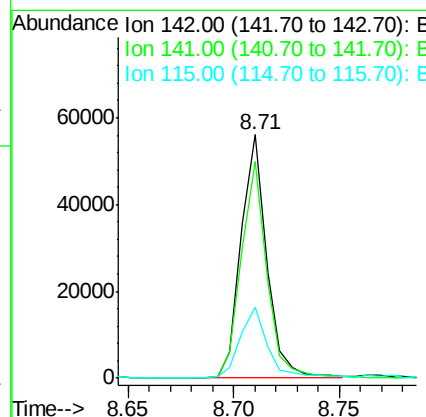
Manual Integrations
APPROVED

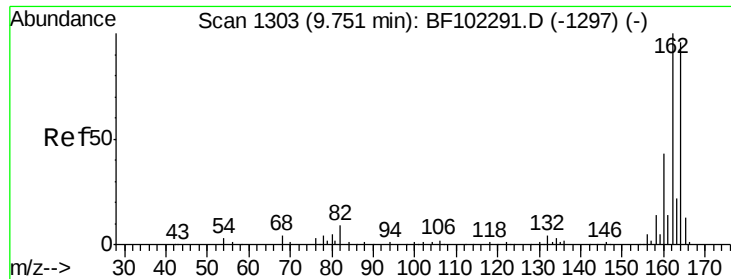
Sohil
1/23/2018 12:46:46 PM



#37
2-Methylnaphthalene
Concen: 2.804 ng
RT: 8.71 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	47358		
141	88.9		70.8	106.2
115	29.3		26.1	39.1





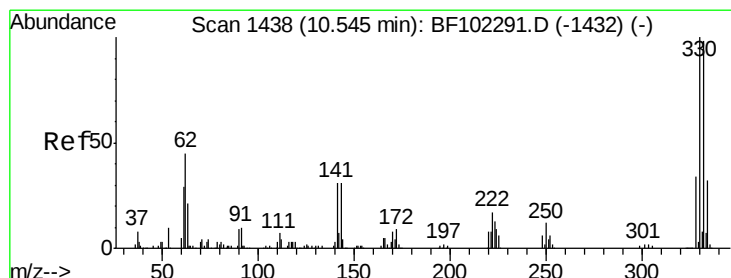
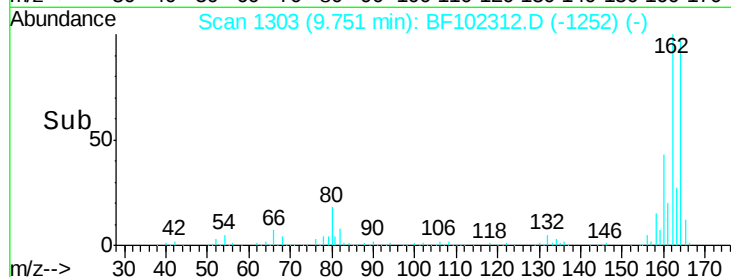
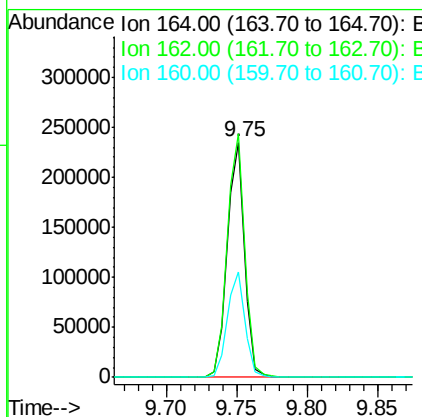
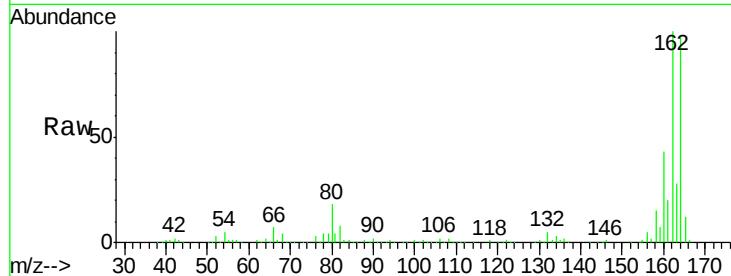
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.00 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.6	86.1	129.1
160	45.1	38.3	57.5

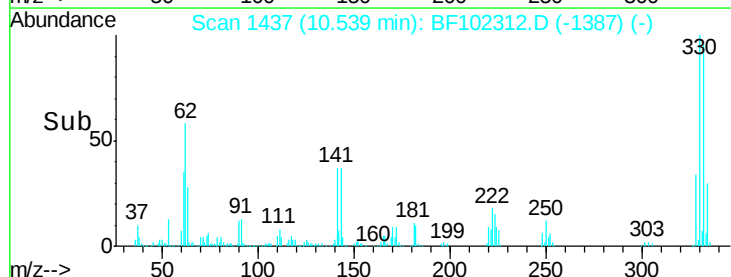
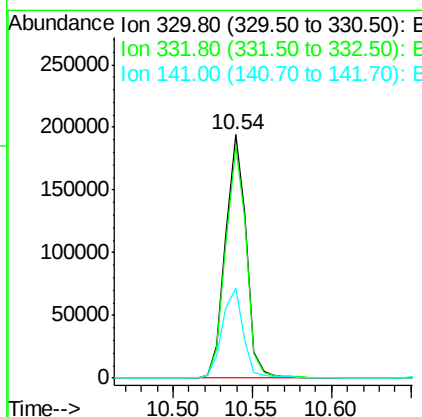
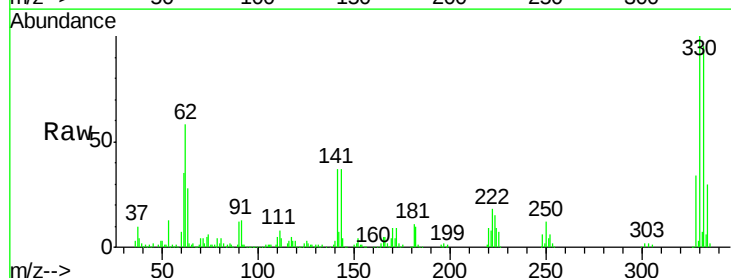
Manual Integrations
APPROVED

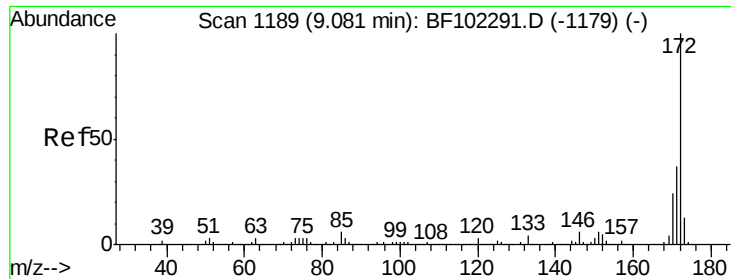
Sohil
1/23/2018 12:46:46 PM



#41
2,4,6-Tribromophenol
Concen: 89.396 ng
RT: 10.54 min Scan# 1437
Delta R.T. -0.01 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.0	115.6
141	38.4	29.9	44.9





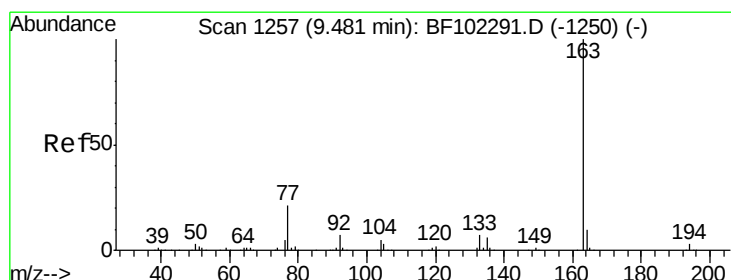
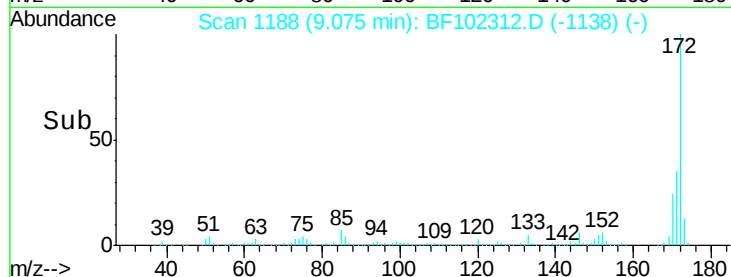
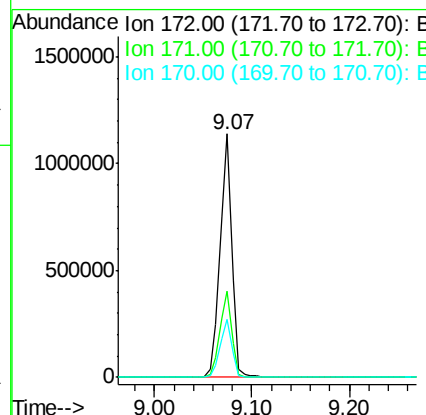
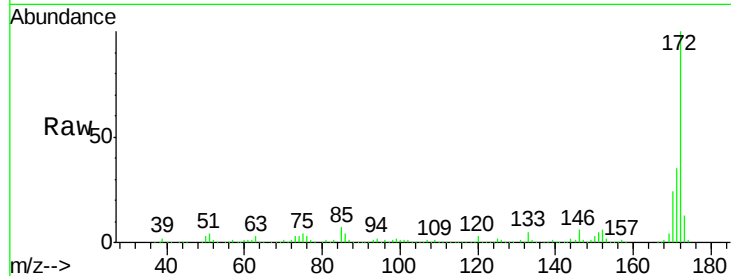
#44
2-Fluorobiphenyl
Concen: 70.794 ng
RT: 9.07 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	23.9	19.6	29.4

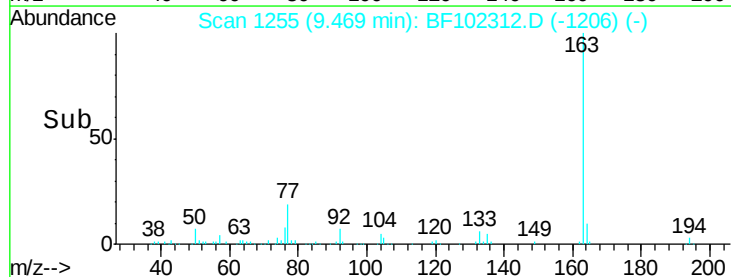
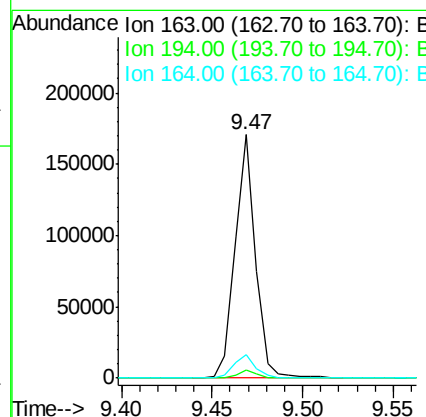
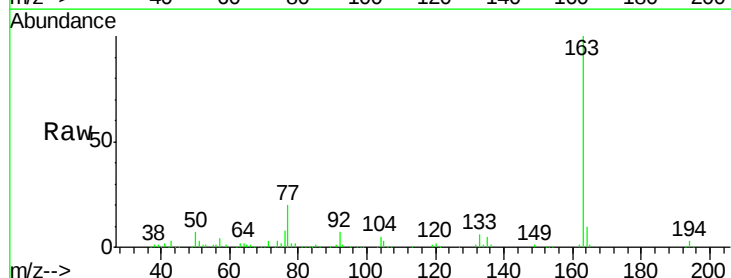
Manual Integrations
APPROVED

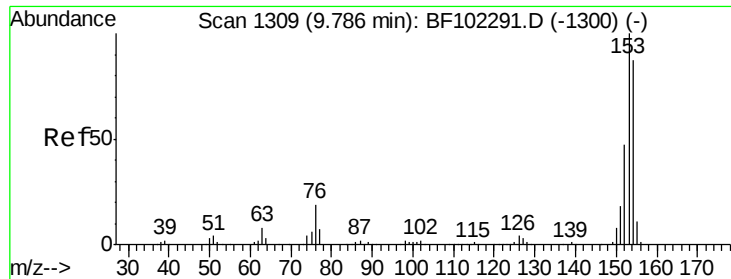
Sohil
1/23/2018 12:46:46 PM



#49
Dimethylphthalate
Concen: 8.145 ng
RT: 9.47 min Scan# 1255
Delta R.T. -0.01 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.7	4.1
164	9.9	8.2	12.2





#51

Acenaphthene

Concen: 8.288 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

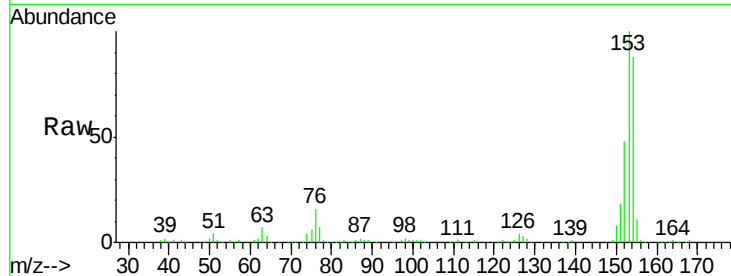
ClientSampleId :

SB-07-0-2.0

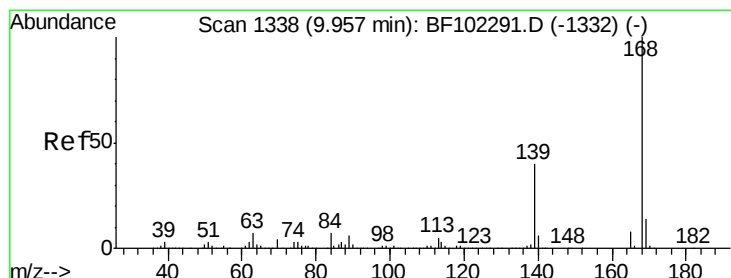
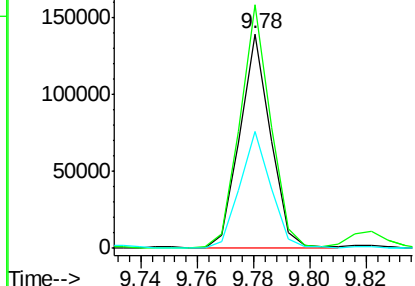
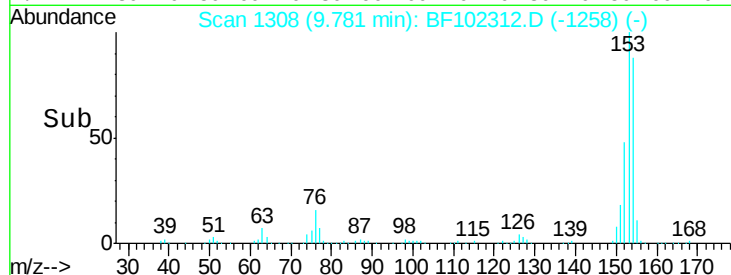
Tot Ion:	154	Resp:	104593
Ion Ratio	Lower	Upper	
154	100		
153	113.6	91.2	136.8
152	54.7	43.8	65.8

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



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

Dibenzofuran

Concen: 7.203 ng

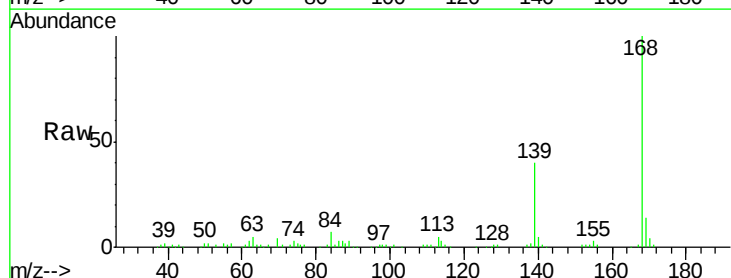
RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

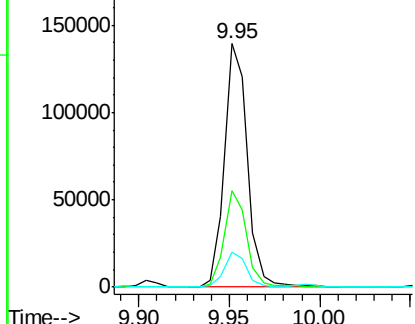
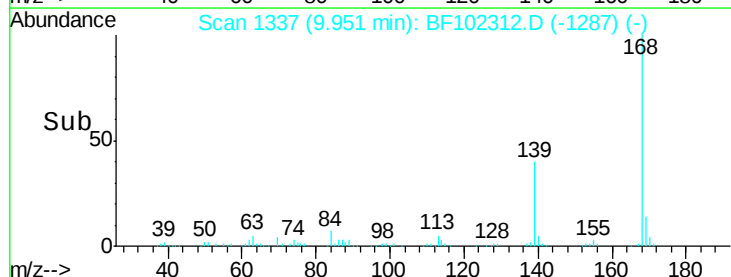
Lab File: BF102312.D

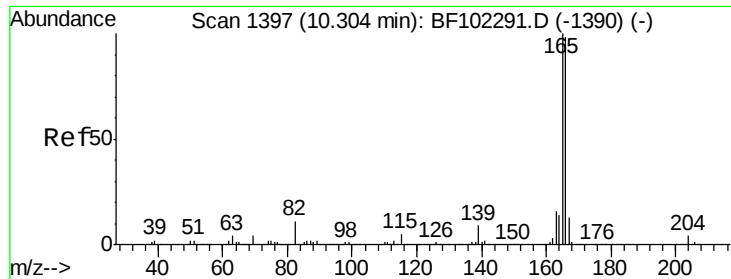
Acq: 22 Jan 2018 21:10

Tgt Ion:	168	Resp:	123014
Ion Ratio	Lower	Upper	
168	100		
139	39.7	30.1	45.1
169	14.5	10.9	16.3



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: 11.772 ng

RT: 10.30 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

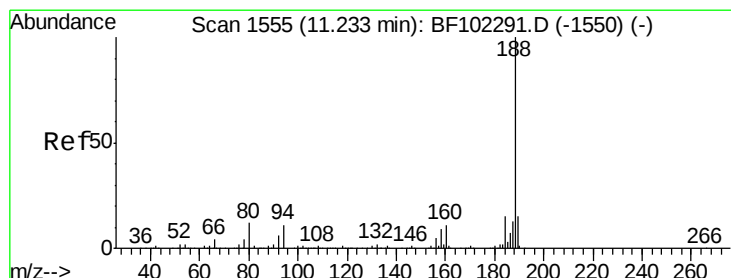
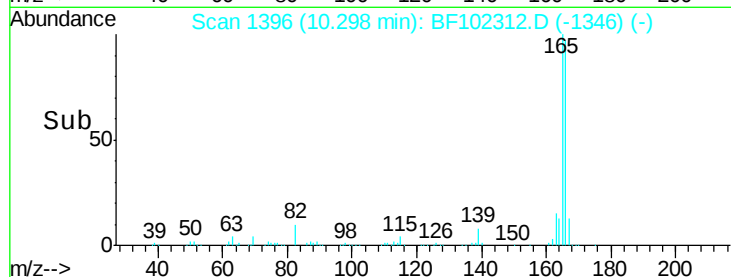
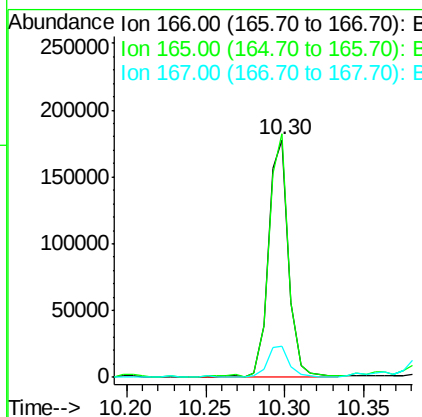
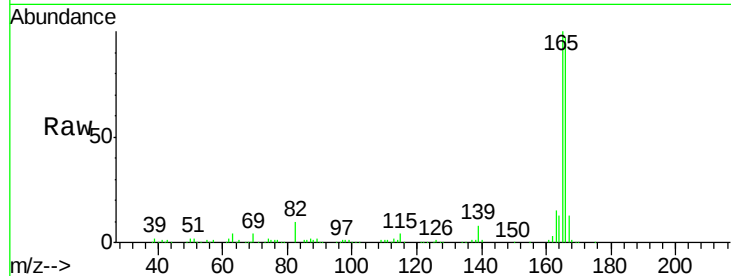
ClientSampleId :

SB-07-0-2.0

Tot Ion:	166	Resp:	159315
Ion Ratio	Lower	Upper	
166	100		
165	102.6	79.8	119.8
167	13.1	10.6	16.0

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

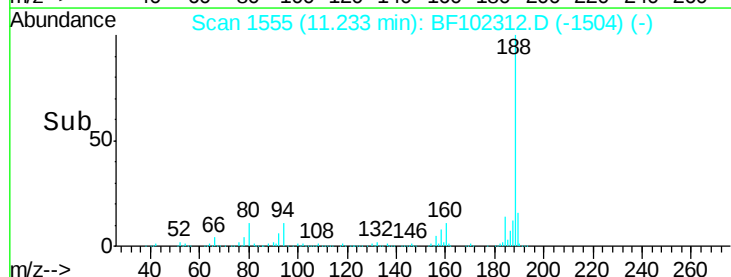
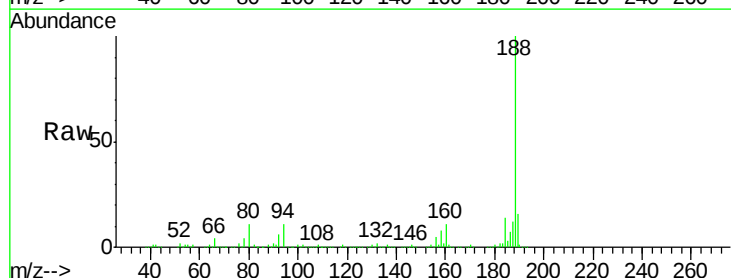
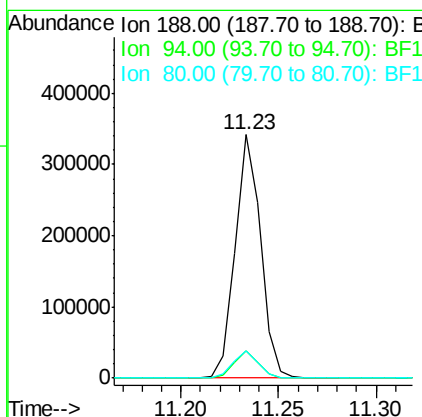
RT: 11.23 min Scan# 1555

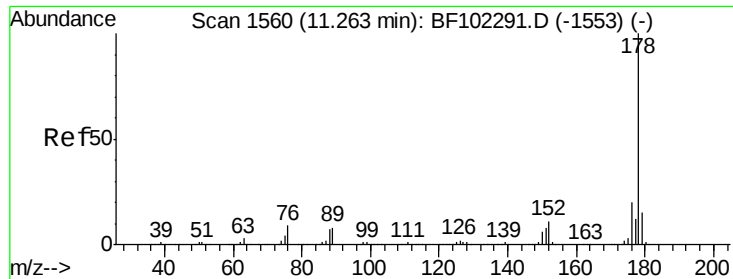
Delta R.T. -0.00 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Tgt Ion:	188	Resp:	309746
Ion Ratio	Lower	Upper	
188	100		
94	11.2	8.5	12.7
80	11.1	9.2	13.8





#70

Phenanthrene

Concen: 55.477 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

ClientSampleId :

SB-07-0-2.0

Tot Ion:178 Resp: 1001339

Ion Ratio Lower Upper

178 100

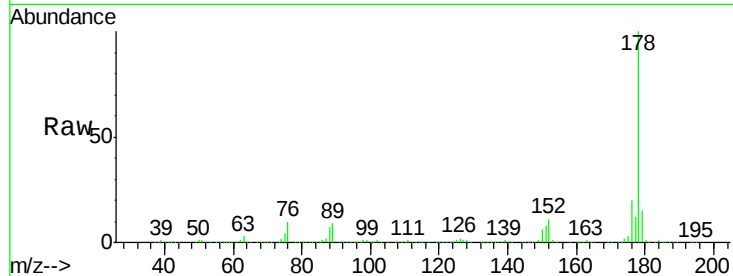
176 19.7 15.8 23.8

179 15.4 13.0 19.6

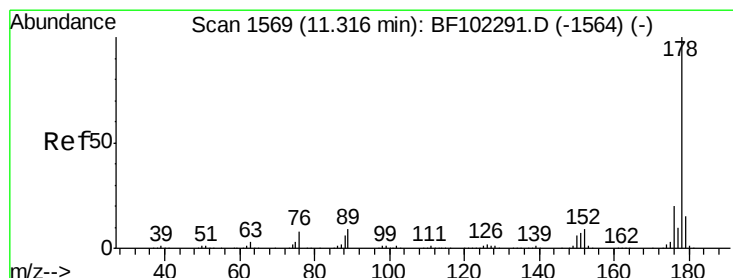
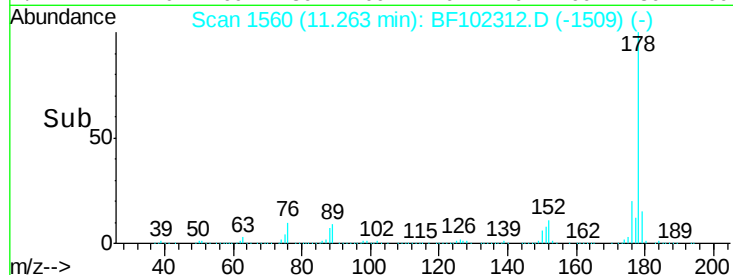
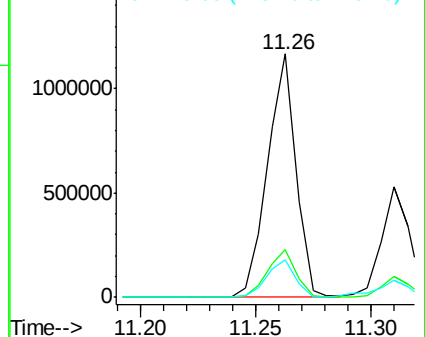
Manual Integrations
APPROVED

Sohil

1/23/2018 12:46:46 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: 23.523 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

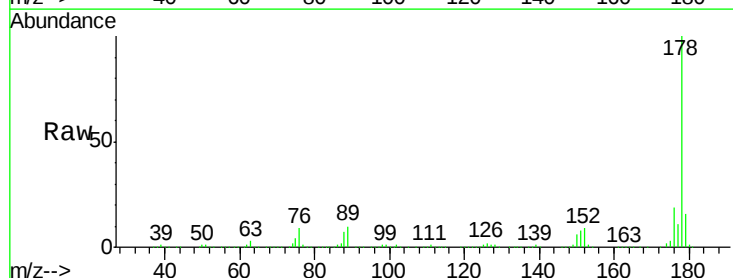
Tgt Ion:178 Resp: 433372

Ion Ratio Lower Upper

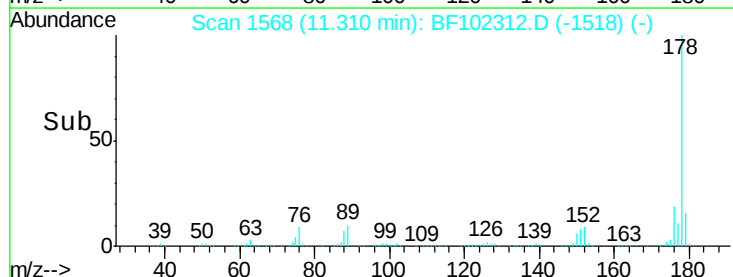
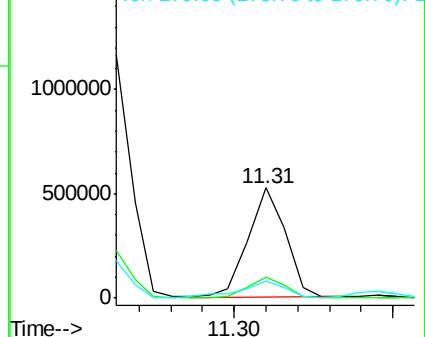
178 100

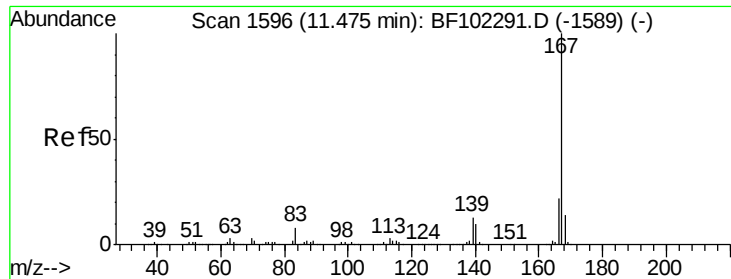
176 19.0 15.4 23.2

179 15.7 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





#72

Carbazole

Concen: 9.200 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

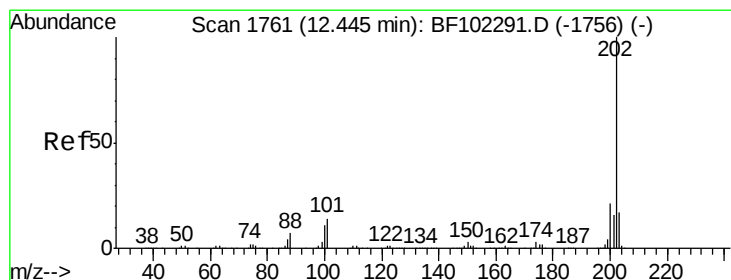
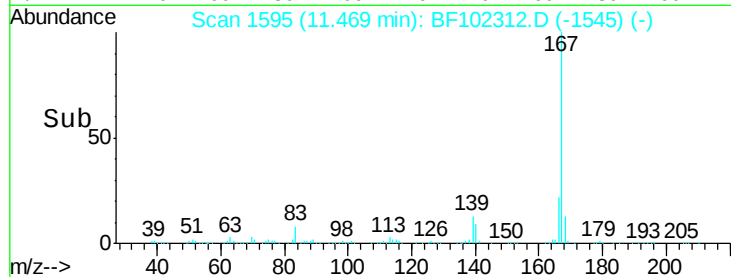
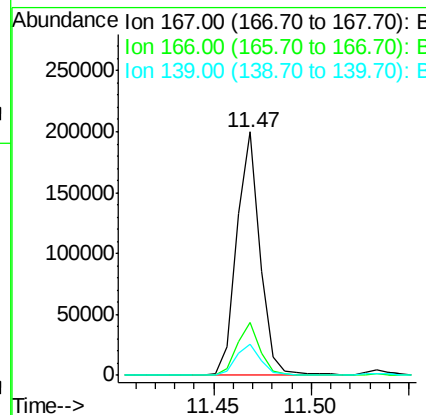
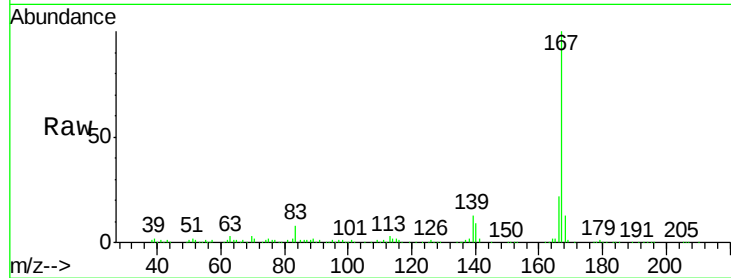
ClientSampleId :

SB-07-0-2.0

Tot Ion:	167	Resp:	165360
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.6	26.4
139	12.8	10.9	16.3

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



#74

Fluoranthene

Concen: 65.955 ng

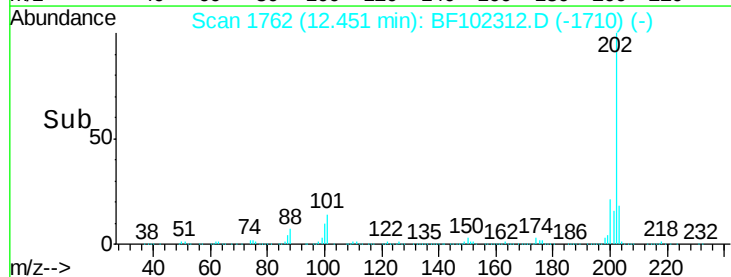
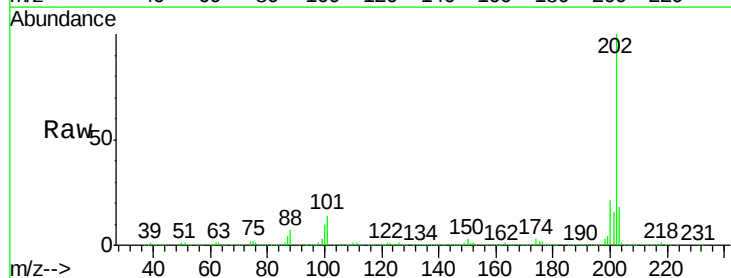
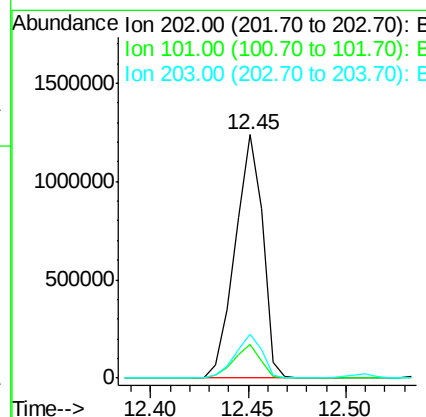
RT: 12.45 min Scan# 1762

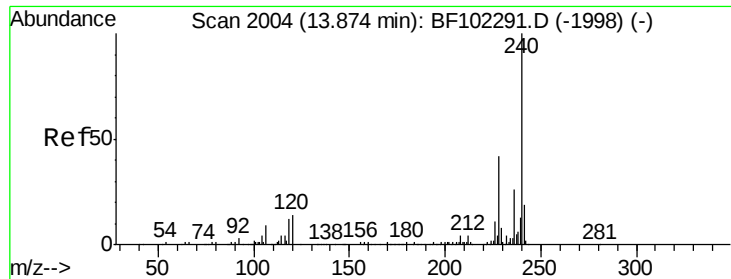
Delta R.T. 0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Tgt Ion:	202	Resp:	1213978
Ion Ratio	Lower	Upper	
202	100		
101	13.7	0.0	34.1
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.00 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

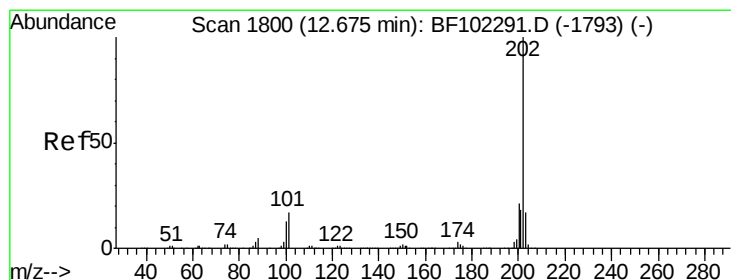
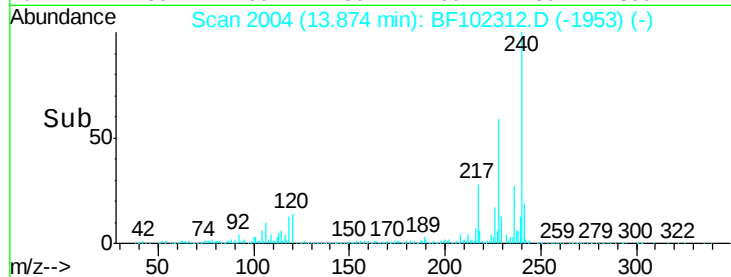
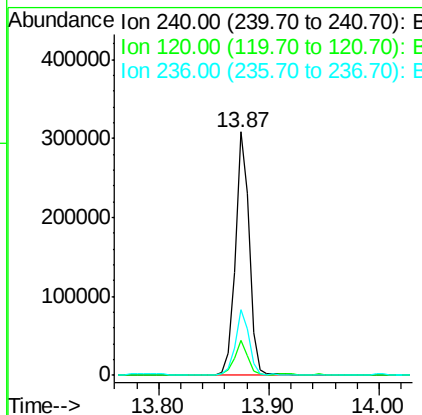
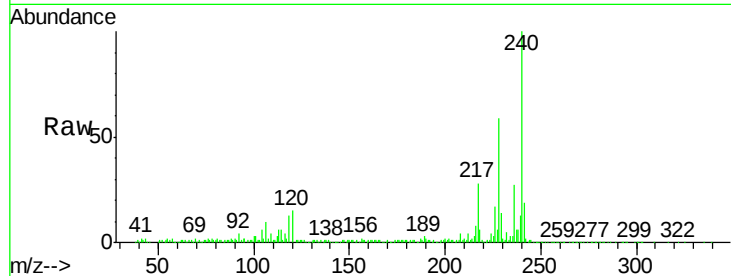
ClientSampleId :

SB-07-0-2.0

Tot Ion:	240	Resp:	270781
Ion Ratio	Lower	Upper	
240	100		
120	14.6	9.5	14.3#
236	26.8	20.7	31.1

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



#77

Pyrene

Concen: 53.717 ng

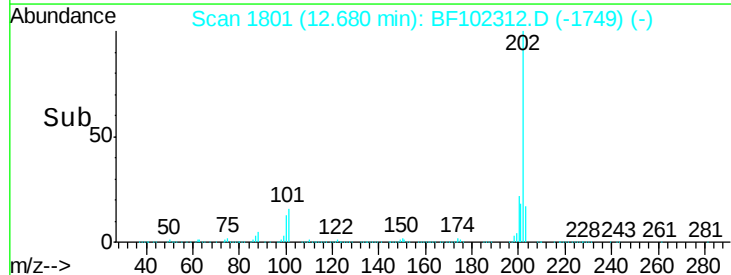
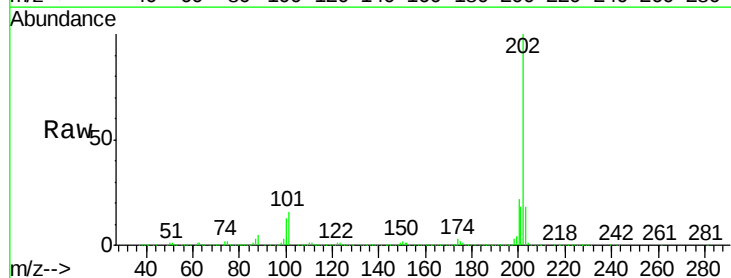
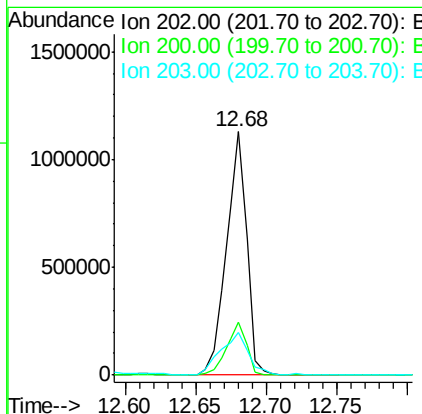
RT: 12.68 min Scan# 1801

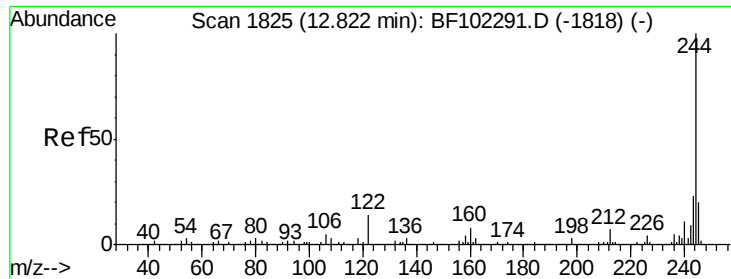
Delta R.T. 0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Tgt Ion:	202	Resp:	1124607
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.4	26.2
203	17.6	14.3	21.5





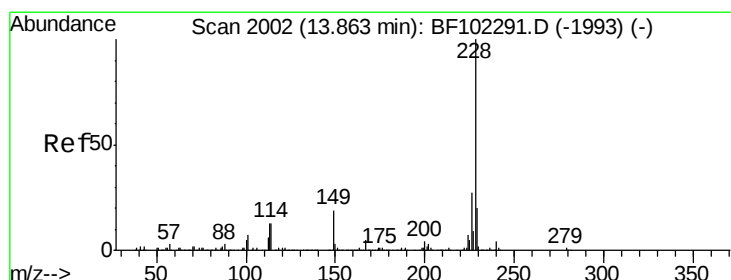
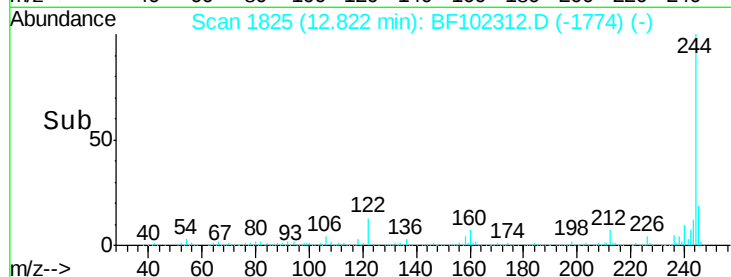
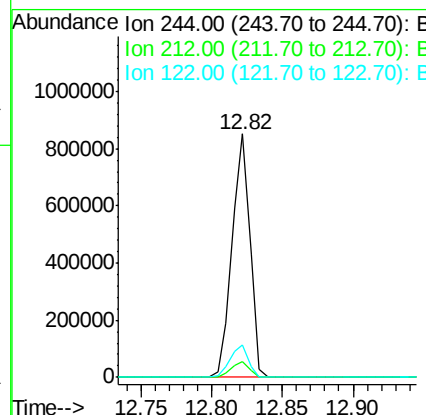
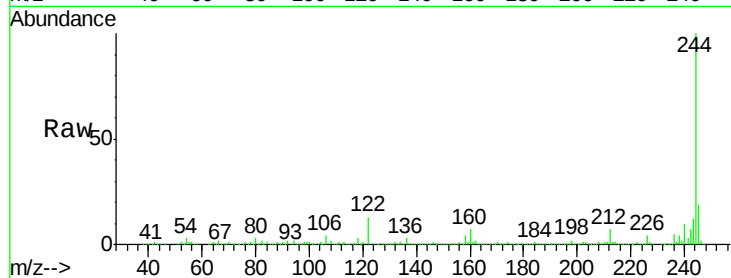
#78
 Terphenyl-d14
 Concen: 62.582 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.00 min
 Lab File: BF102312.D
 Acq: 22 Jan 2018 21:10

Instrument :
 BNA_F
 ClientSampled :
 SB-07-0-2.0

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	13.2	11.0	16.4

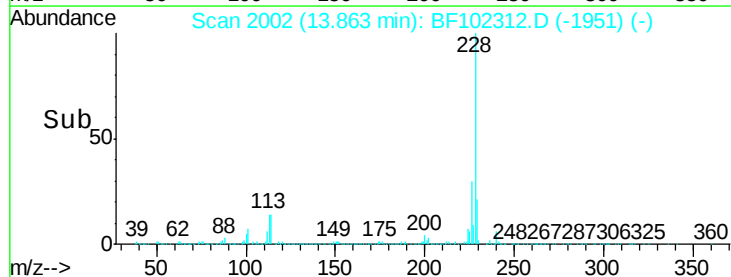
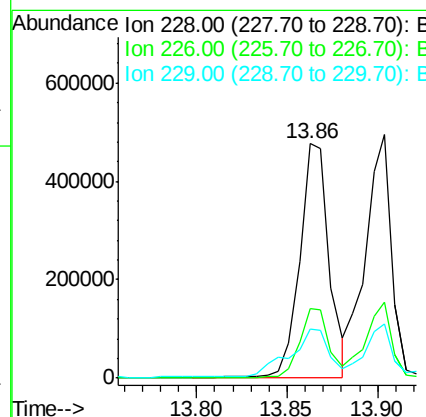
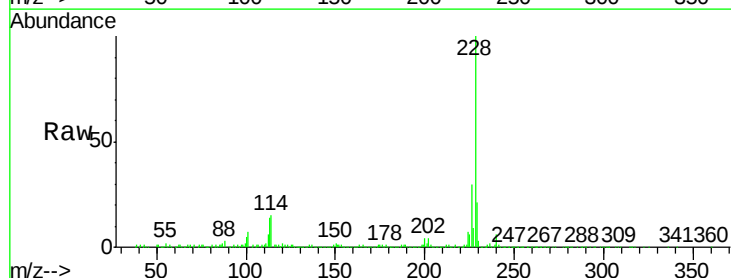
Manual Integrations
 APPROVED

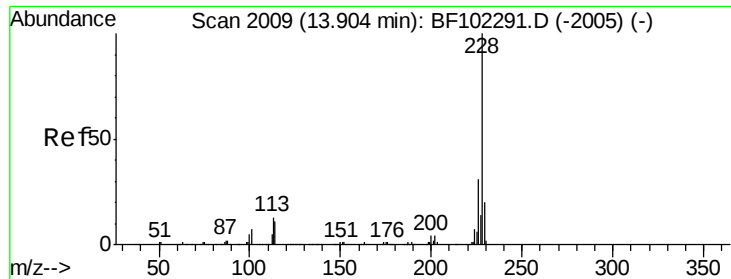
Sohil
 1/23/2018 12:46:46 PM



#80
 Benzo(a)anthracene
 Concen: 32.523 ng
 RT: 13.86 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: BF102312.D
 Acq: 22 Jan 2018 21:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.6	33.8
229	21.1	15.8	23.6





#82

Chrysene

Concen: 29.338 ng

RT: 13.90 min Scan# 2009

Delta R.T. -0.00 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

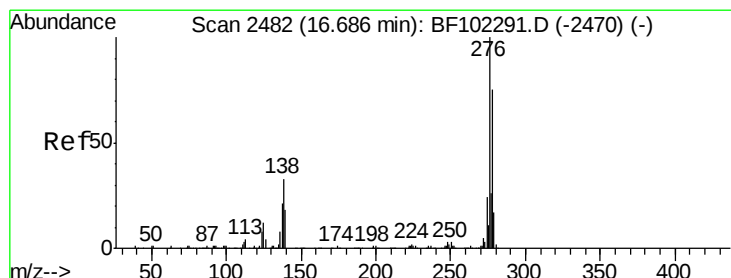
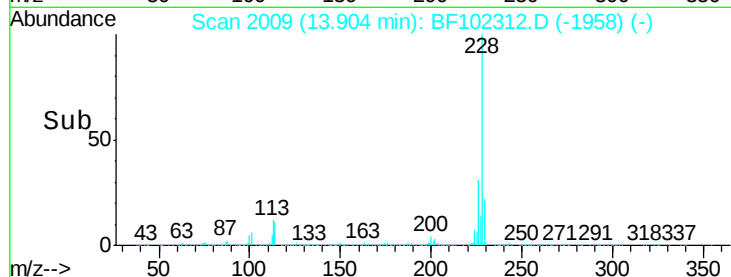
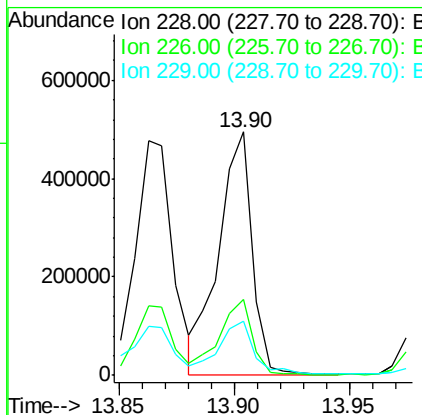
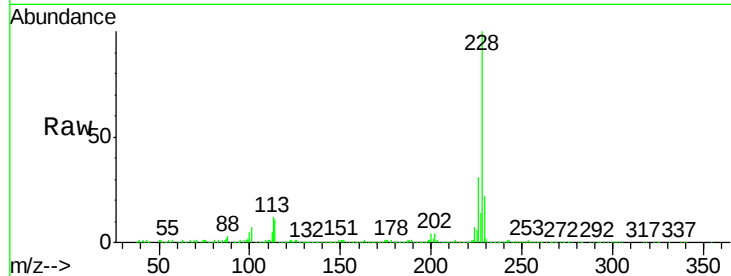
ClientSampleId :

SB-07-0-2.0

Tot Ion:	228	Resp:	496679
Ion Ratio	Lower	Upper	
228	100		
226	31.2	25.0	37.6
229	22.2	16.2	24.4

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 13.068 ng

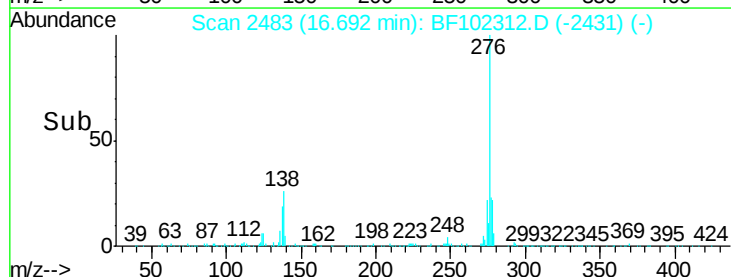
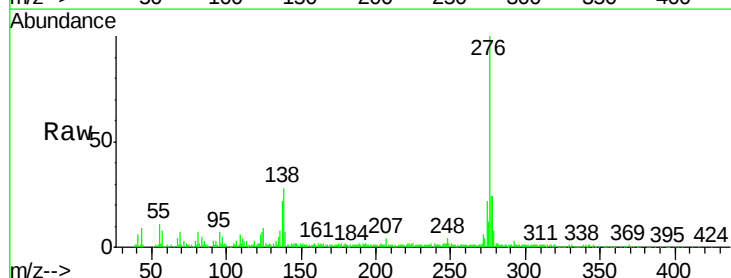
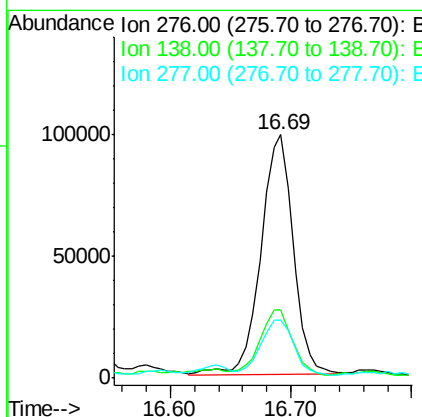
RT: 16.69 min Scan# 2483

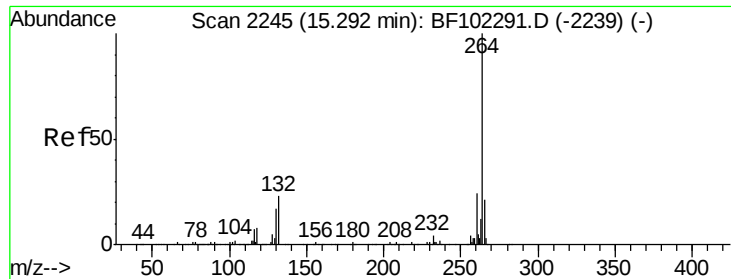
Delta R.T. 0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Tgt Ion:	276	Resp:	182708
Ion Ratio	Lower	Upper	
276	100		
138	26.8	25.0	37.6
277	23.4	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.30 min Scan# 2247

Delta R.T. 0.01 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

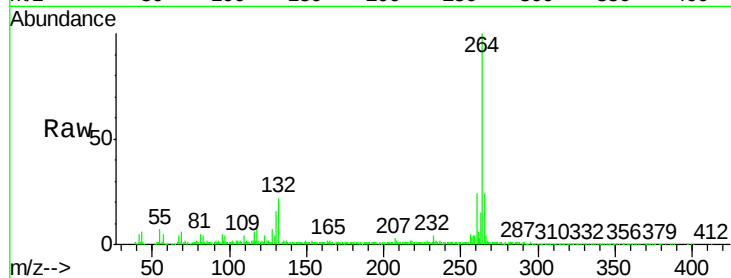
ClientSampled :

SB-07-0-2.0

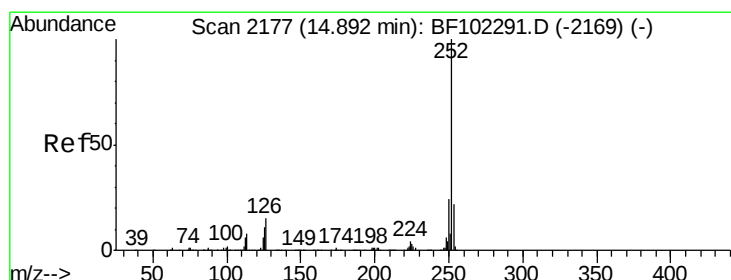
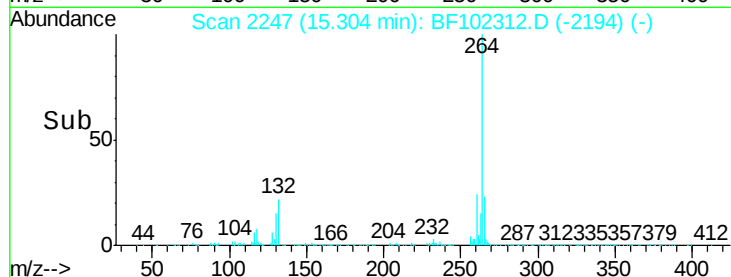
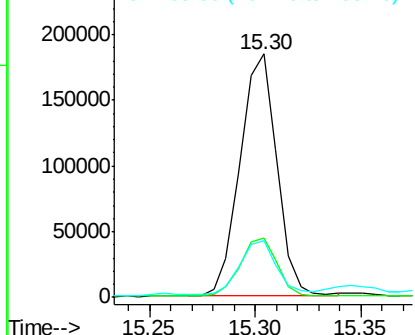
Tot Ion:	264	Resp:	224545
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.2	28.8
265	23.5	17.5	26.3

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



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: 42.163 ng m

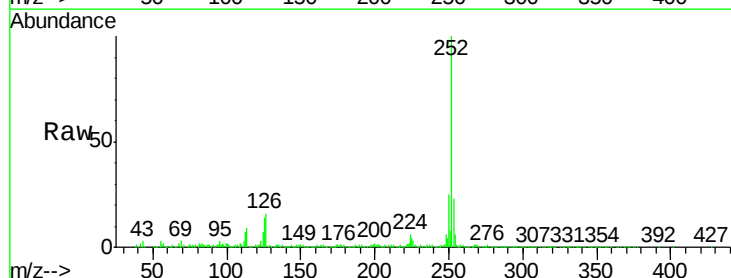
RT: 14.90 min Scan# 2178

Delta R.T. 0.01 min

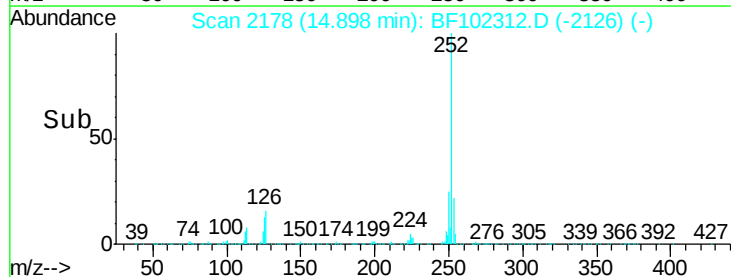
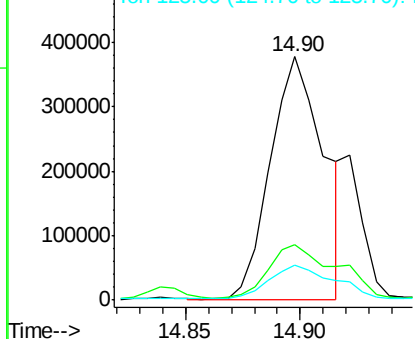
Lab File: BF102312.D

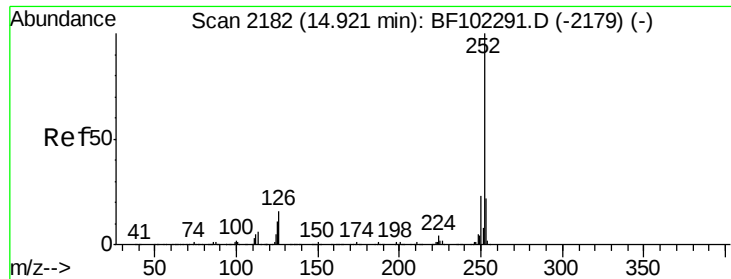
Acq: 22 Jan 2018 21:10

Tgt Ion:	252	Resp:	613635
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.0	25.6
125	14.2	9.0	13.6#



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





#88

Benzo(k)fluoranthene

Concen: 9.905 ng m

RT: 14.92 min Scan# 2182

Delta R.T. -0.00 min

Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Instrument :

BNA_F

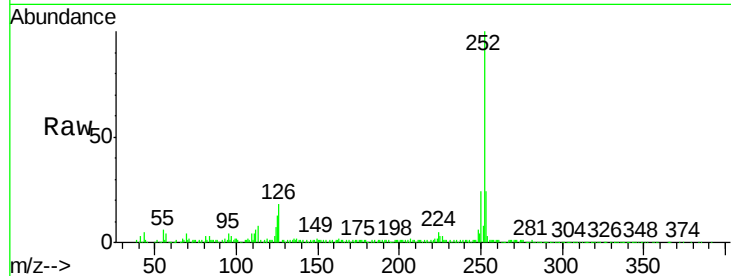
ClientSampleId :

SB-07-0-2.0

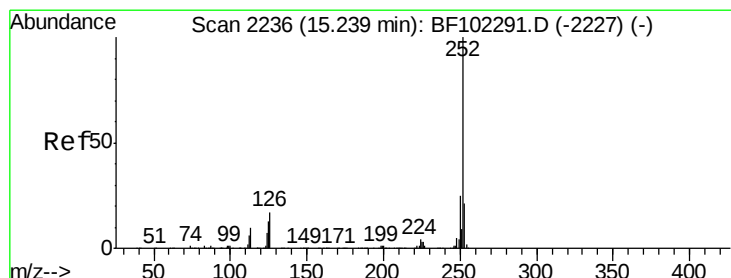
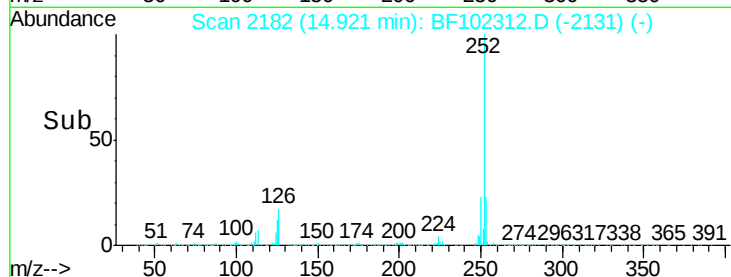
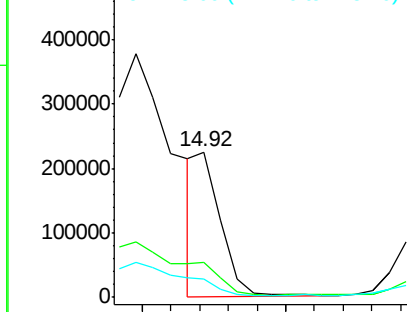
Tot Ion:	252	Resp:	136199
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.9	26.9
125	12.7	10.2	15.2

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



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



#89

Benzo(a)pyrene

Concen: 29.124 ng

RT: 15.24 min Scan# 2237

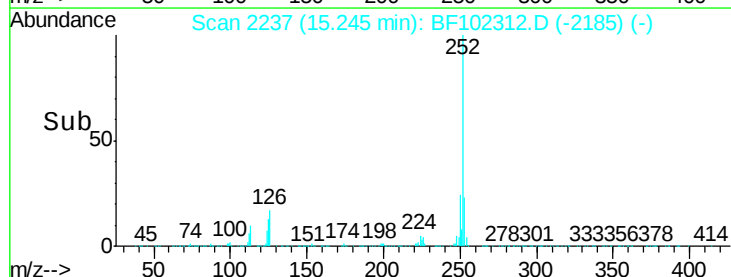
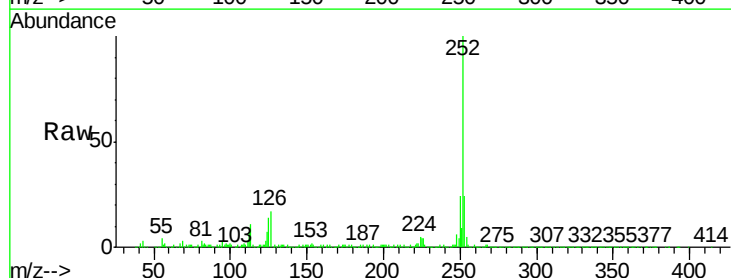
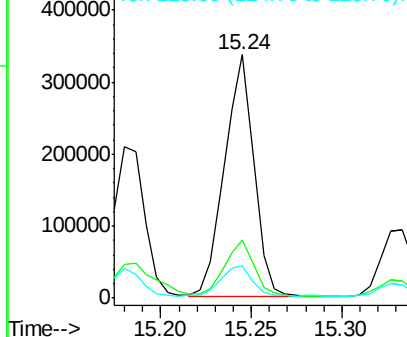
Delta R.T. 0.01 min

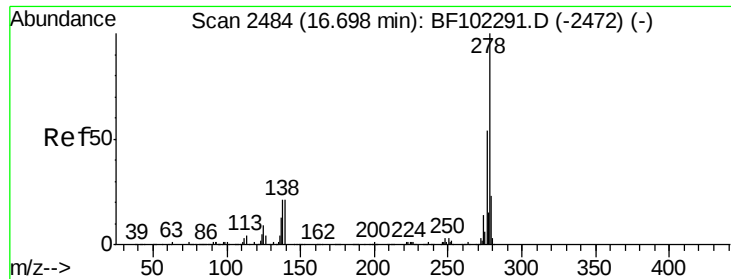
Lab File: BF102312.D

Acq: 22 Jan 2018 21:10

Tgt Ion:	252	Resp:	382285
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.1	25.7
125	13.5	9.8	14.6

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





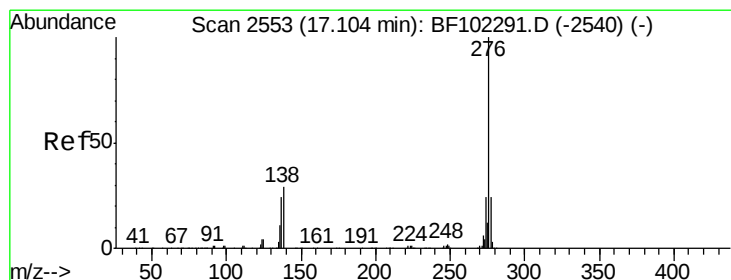
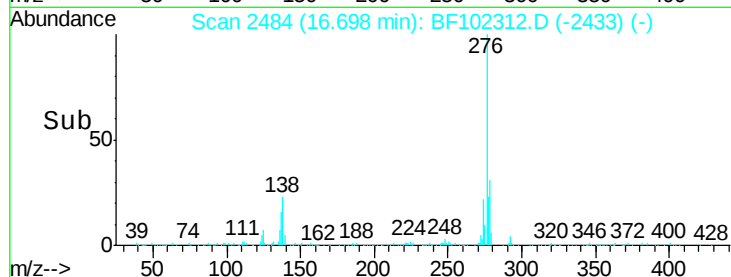
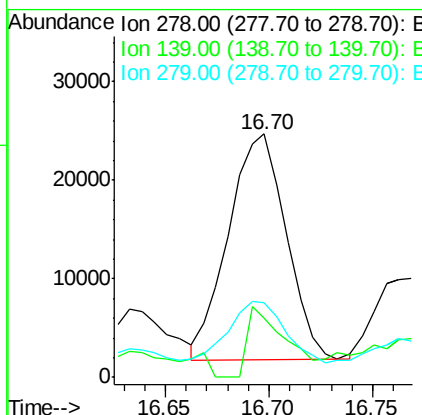
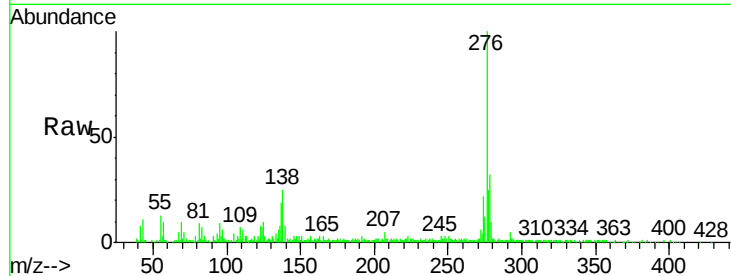
#90
Dibenzo(a,h)anthracene
Concen: 4.197 ng/mL
RT: 16.70 min Scan# 2484
Delta R.T. -0.00 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Instrument :
BNA_F
ClientSampleId :
SB-07-0-2.0

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.4	15.9	23.9#
279	30.9	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/23/2018 12:46:46 PM



#91
Benzo(g,h,i)perylene
Concen: 15.282 ng/mL
RT: 17.11 min Scan# 2554
Delta R.T. 0.01 min
Lab File: BF102312.D
Acq: 22 Jan 2018 21:10

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	17.9	26.9
138	30.3	21.8	32.8

