

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
 Data File : BF106361.D
 Acq On : 12 Jun 2018 22:44
 Operator : JU/SJ
 Sample : J3322-04 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB02-3_E_5

Manual Integrations
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Quant Time: Jun 13 15:06:08 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 11 15:00:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	127901	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	458303	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	197565	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	410427	20.00	ng	0.00
75) Chrysene-d12	14.17	240	317790	20.00	ng	0.01
86) Perylene-d12	15.71	264	279448	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	88863	11.76	ng	0.06
7) Phenol-d6	6.66	99	108240	11.34	ng	0.07
23) Nitrobenzene-d5	7.53	82	60320	7.74	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	20647	10.86	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	109992	0.84	ng	0.00
78) Terphenyl-d14	13.09	244	147325	11.51	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.28	128	1174170	56.675	ng	98
37) 2-Methylnaphthalene	8.97	142	135851	9.627	ng	98
45) 1,1'-Biphenyl	9.43	154	101251	6.617	ng	98
48) Acenaphthylene	9.88	152	1056851	56.383	ng	98
51) Acenaphthene	10.05	154	281997	23.296	ng	99
54) Dibenzofuran	10.22	168	258007	15.828	ng	97
57) Fluorene	10.57	166	418426	32.399	ng	100
70) Phenanthrene	11.59	178	894137	44.484	ng	99
71) Anthracene	11.59	178	894137	44.403	ng	98
72) Carbazole	11.74	167	181423	9.759	ng	99
74) Fluoranthene	12.74	202	2645413	123.411	ng	93
77) Pylene	12.98	202	2695642	135.489	ng	# 87
80) Benzo(a)anthracene	14.16	228	2069575	109.435	ng	# 74
82) Chrysene	14.20	228	1708142	98.930	ng	# 90
85) Indeno(1,2,3-cd)pyrene	17.30	276	1210568	87.850	ng	# 89
87) Benzo(b)fluoranthene	15.27	252	2640573m	156.318	ng	
88) Benzo(k)fluoranthene	15.29	252	646538m	38.646	ng	
89) Benzo(a)pyrene	15.66	252	1869390	123.035	ng	93
90) Dibenzo(a,h)anthracene	17.31	278	318414m	25.137	ng	
91) Benzo(a,h,i)perylene	17.79	276	1213405	98.568	ng	93

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

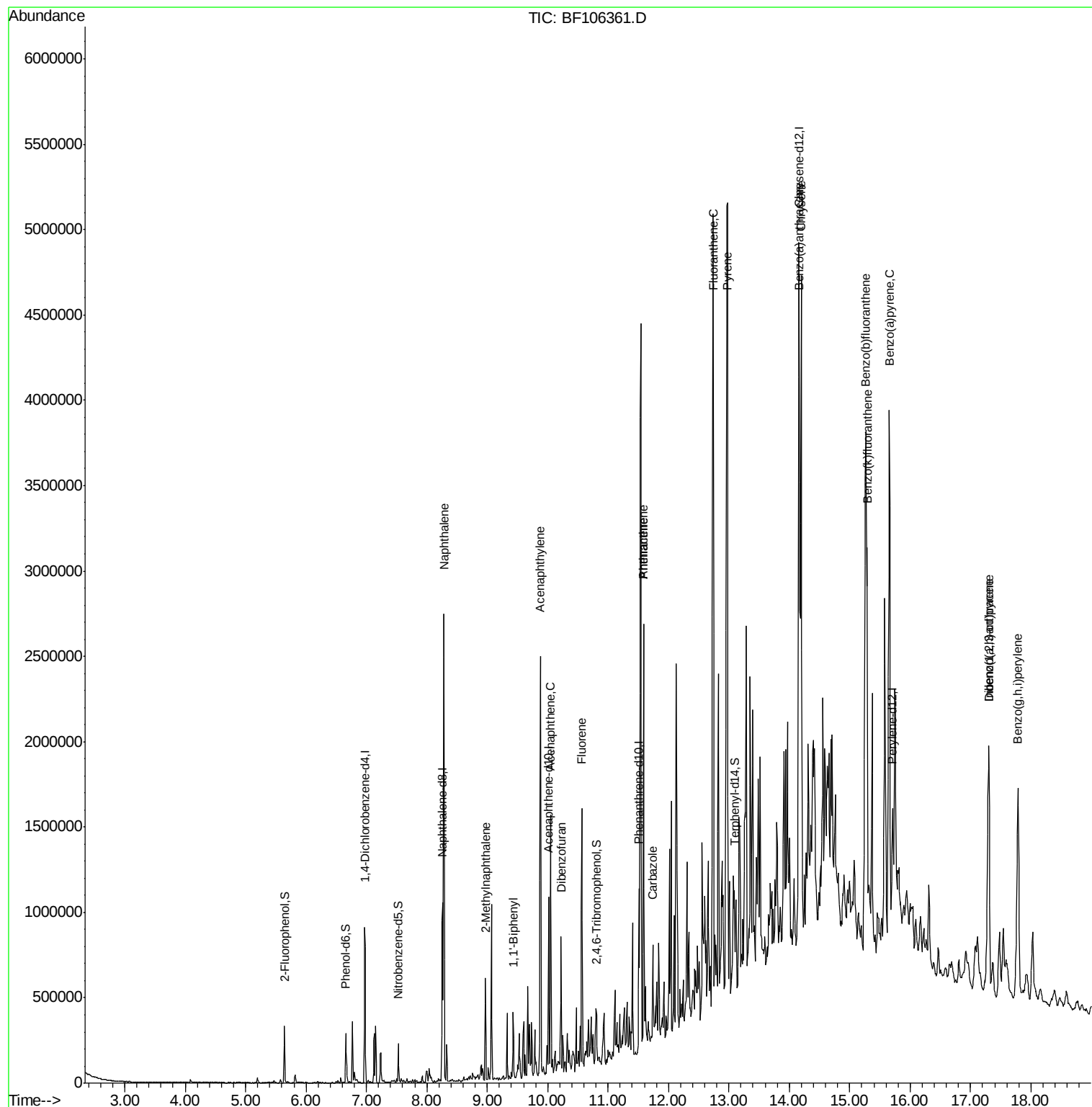
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
Data File : BF106361.D
Acq On : 12 Jun 2018 22:44
Operator : JU/SJ
Sample : J3322-04 10X
Misc :
ALS Vial : 26 Sample Multiplier: 1

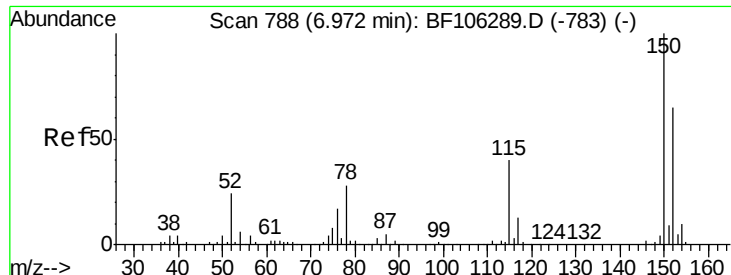
Instrument :
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SB02-3_E_5

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

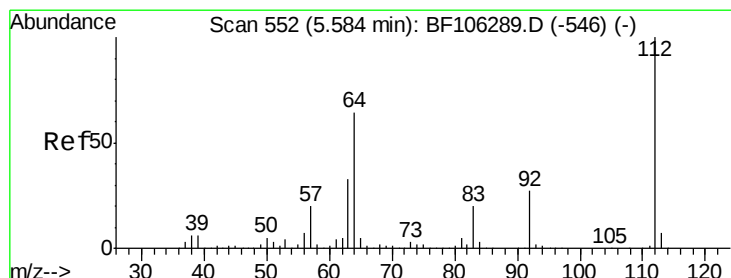
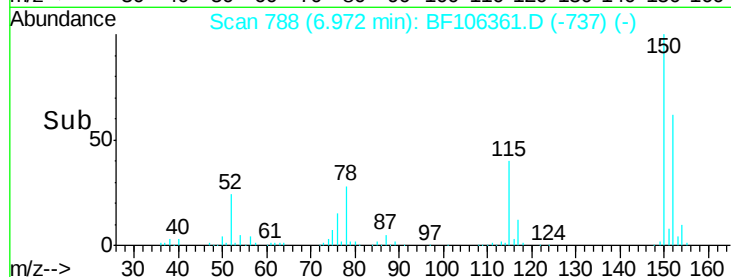
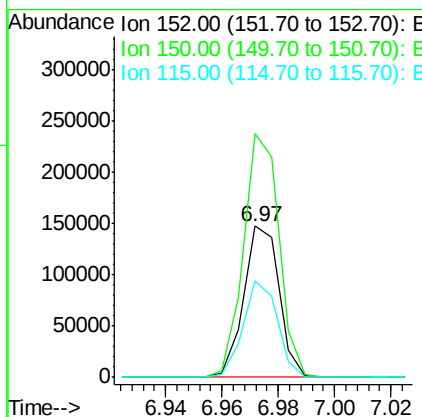
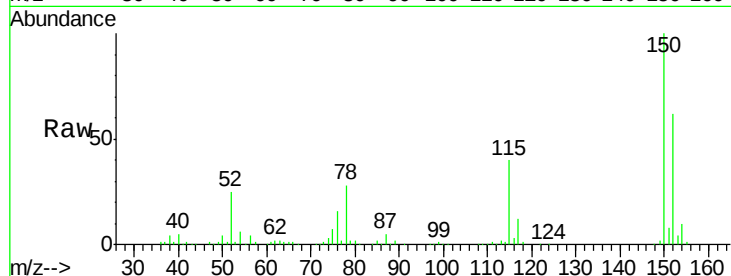
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.9	124.6	186.8
115	63.6	50.1	75.1

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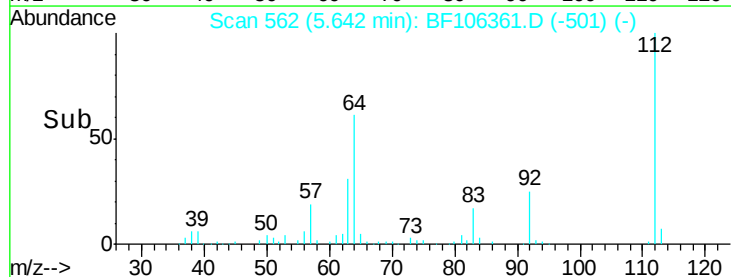
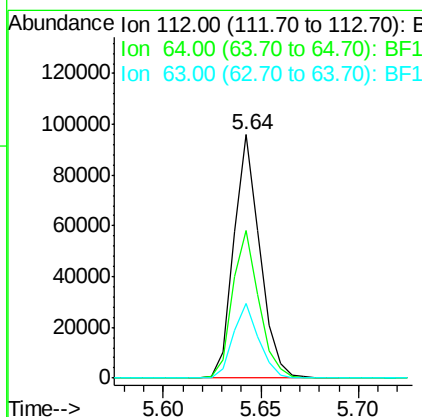
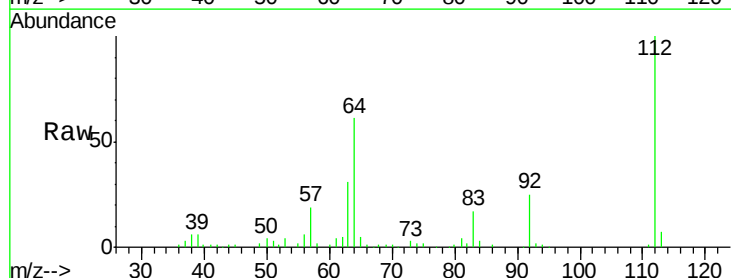
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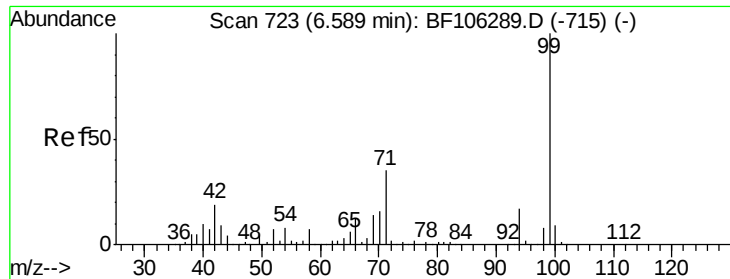


#5

2-Fluorophenol
Concen: 11.759 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.06 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	47.9	71.9
63	30.7	23.7	35.5





#7

Phenol-d6

Concen: 11.337 ng

RT: 6.66 min Scan# 735

Delta R.T. 0.07 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

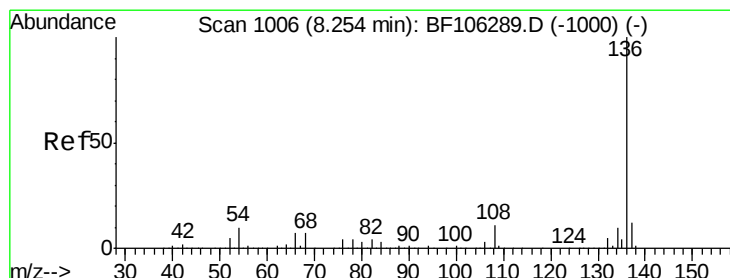
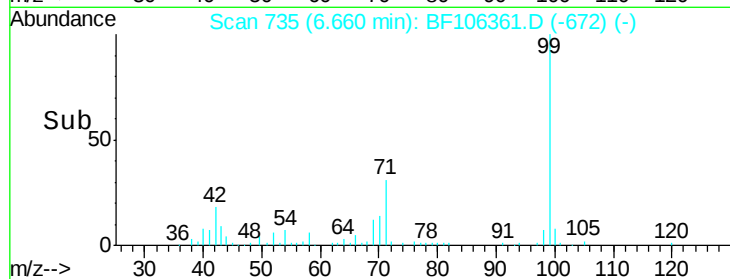
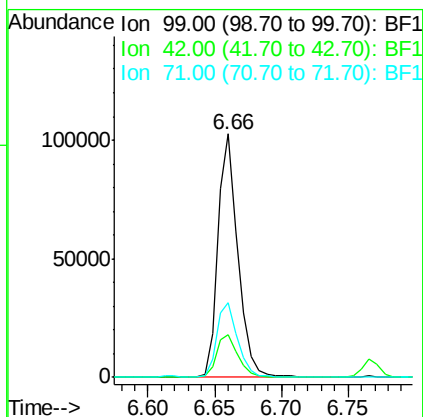
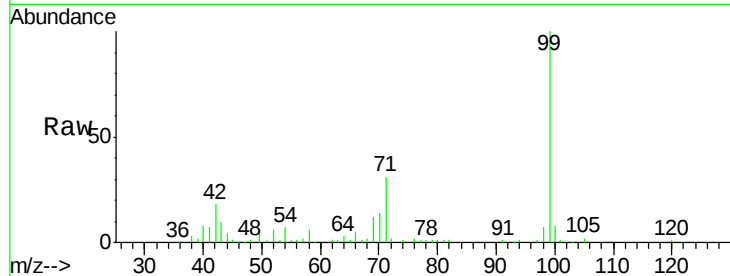
ClientSampled :

SB02-3_E_5

Tot Ion:	99	Resp:	108240
Ion	Ratio	Lower	Upper
99	100		
42	17.7	14.5	21.7
71	30.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

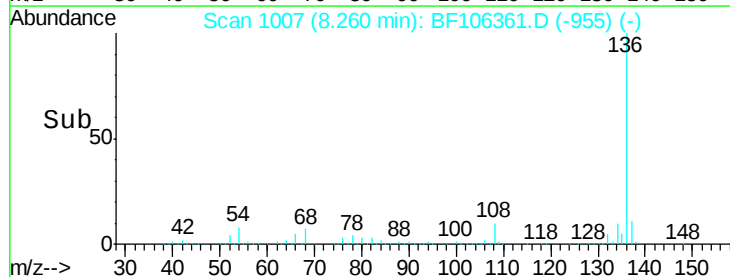
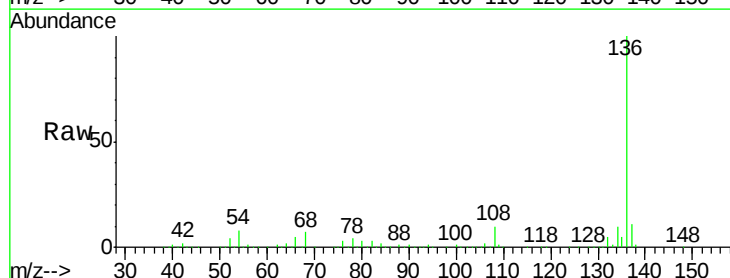
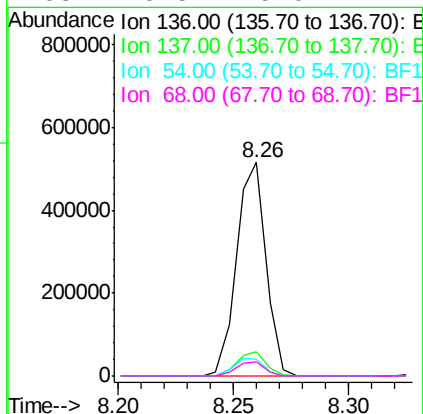
RT: 8.26 min Scan# 1007

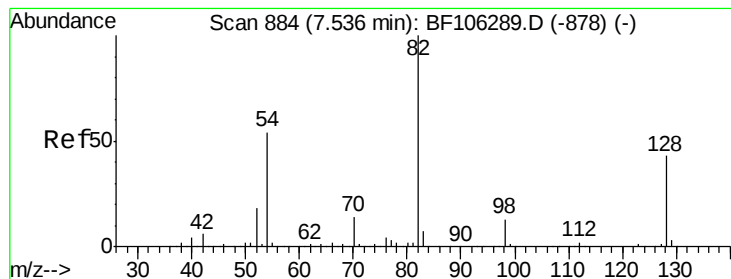
Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion:	136	Resp:	458303
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.0	6.6	9.8
68	6.5	5.0	7.4





#23

Nitrobenzene-d5

Concen: 7.743 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

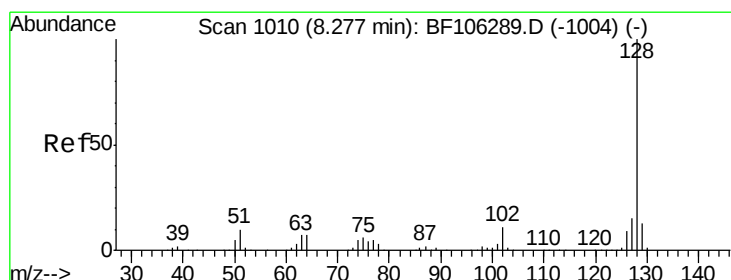
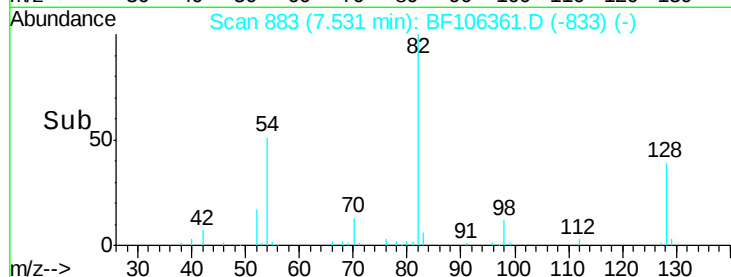
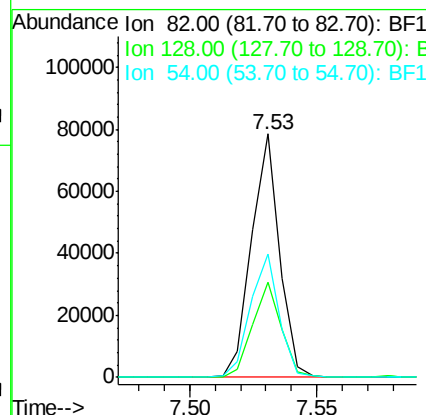
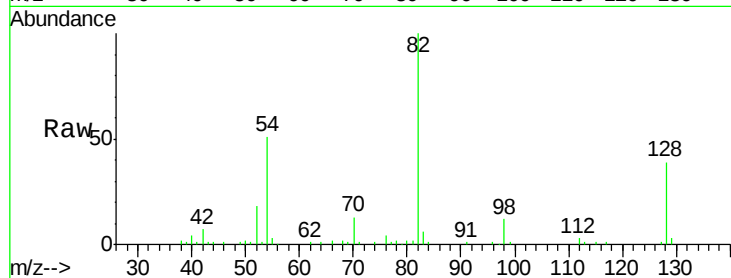
ClientSampleId :

SB02-3_E_5

Tot Ion:	82	Resp:	60320
Ion Ratio	Lower	Upper	
82	100		
128	39.0	36.1	54.1
54	50.6	41.4	62.2

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#31

Naphthalene

Concen: 56.675 ng

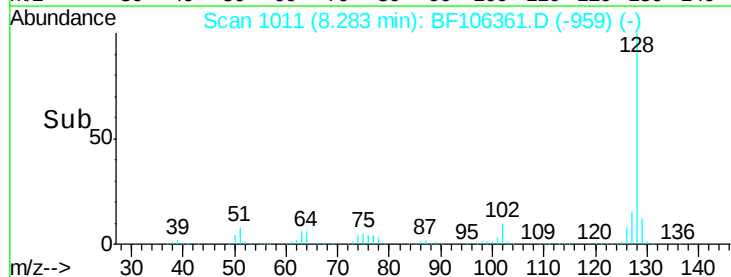
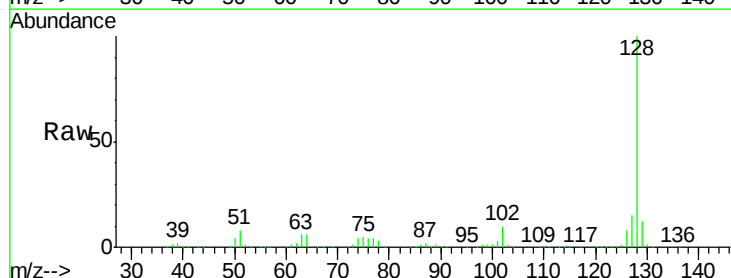
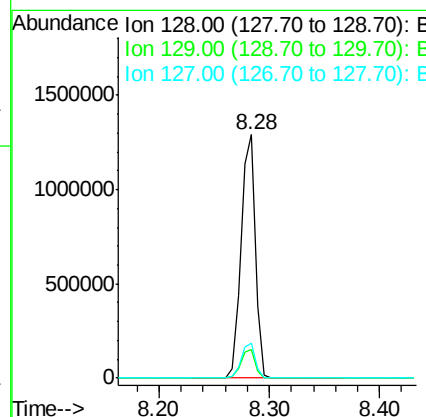
RT: 8.28 min Scan# 1011

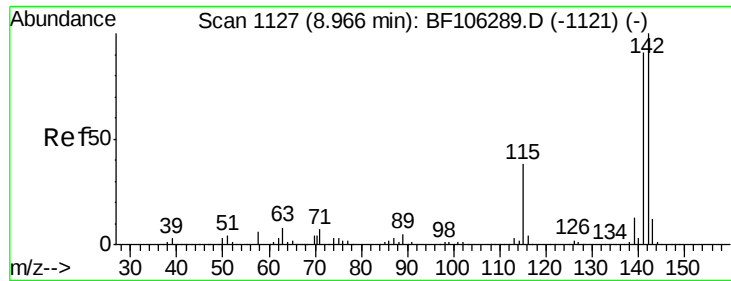
Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion:	128	Resp:	1174170
Ion Ratio	Lower	Upper	
128	100		
129	12.0	8.8	13.2
127	14.6	10.9	16.3





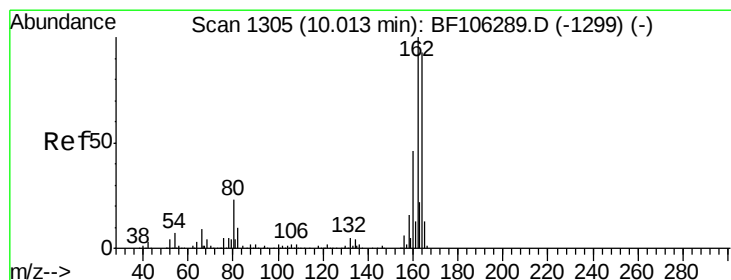
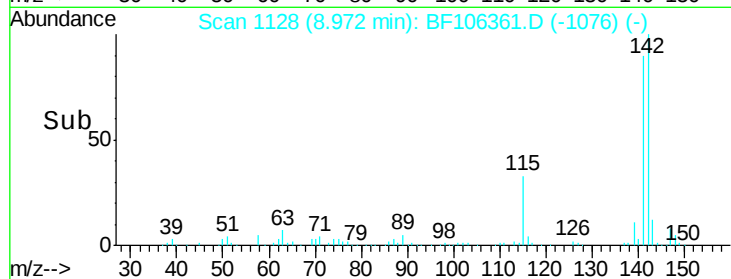
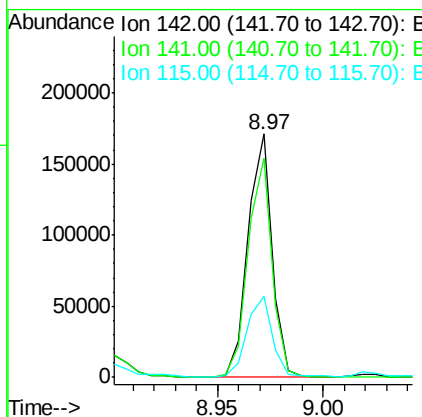
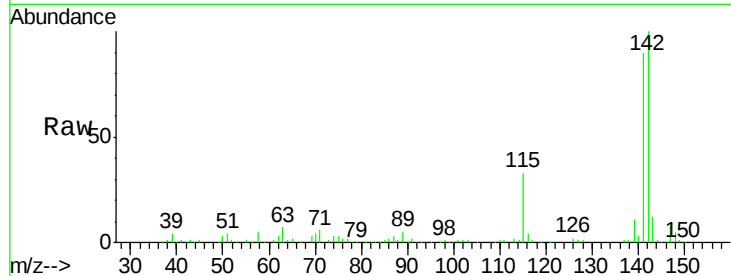
#37
2-Methylnaphthalene
Concen: 9.627 ng
RT: 8.97 min Scan# 1128
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.8	106.2
115	33.3	26.1	39.1

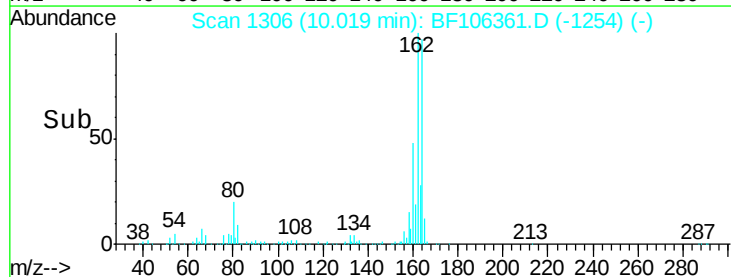
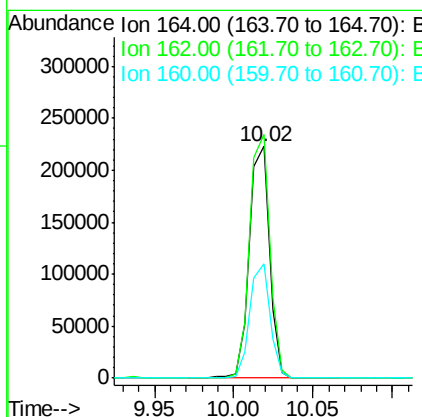
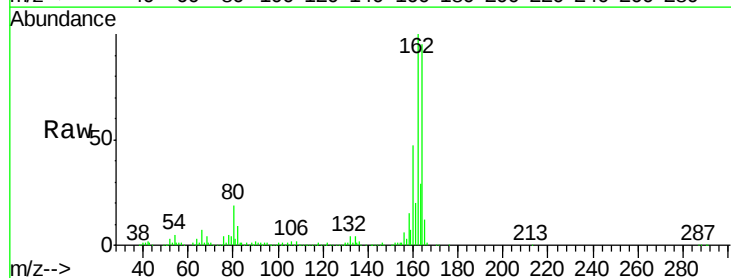
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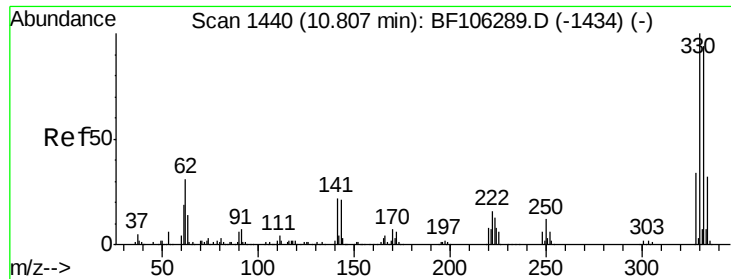
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.2	86.1	129.1
160	49.2	38.3	57.5





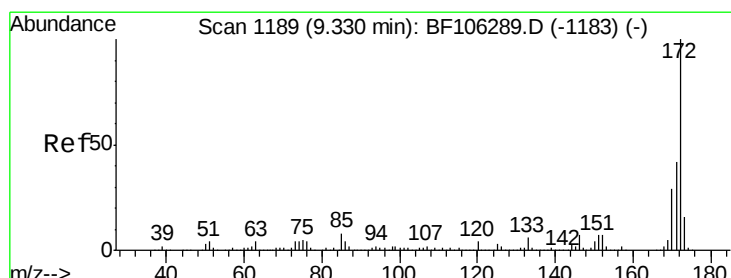
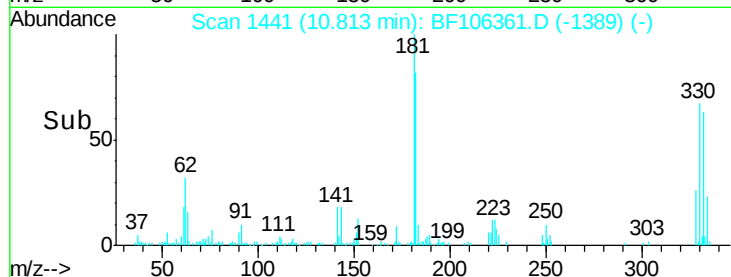
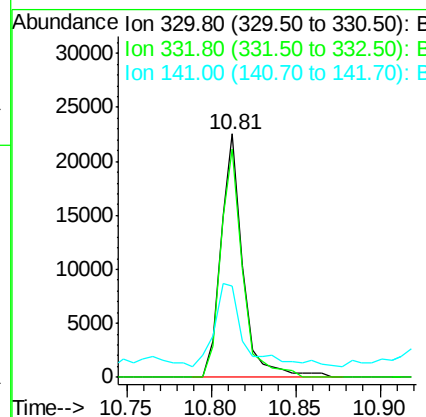
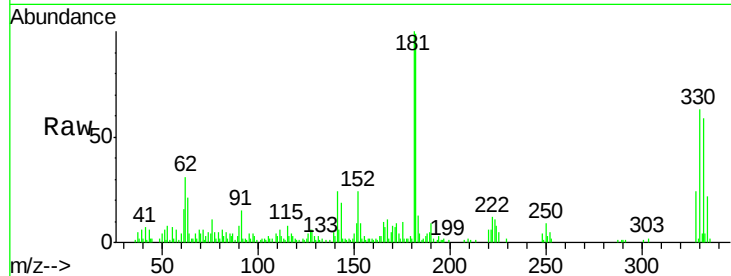
#41
 2,4,6-Tribromophenol
 Concen: 10.862 ng
 RT: 10.81 min Scan# 1441
 Delta R.T. 0.01 min
 Lab File: BF106361.D
 Acq: 12 Jun 2018 22:44

Instrument :
 BNA_F
 ClientSampleId :
 SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.3	77.0	115.6
141	47.9	29.9	44.9

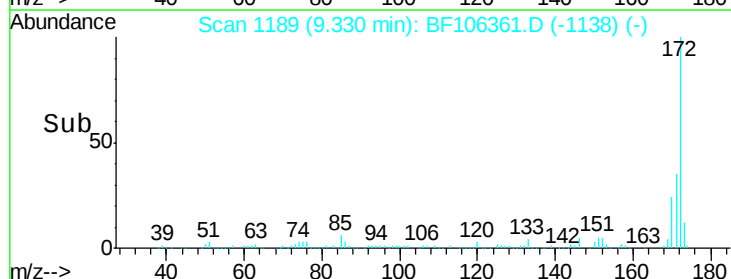
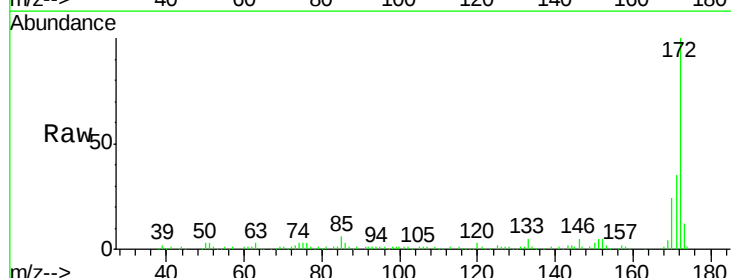
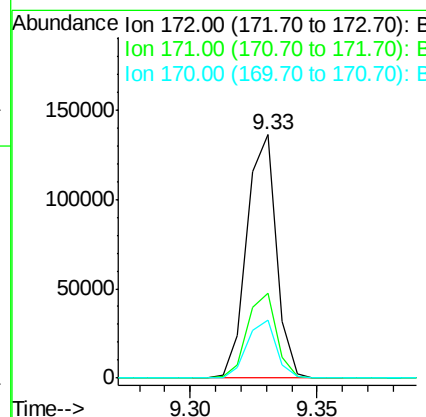
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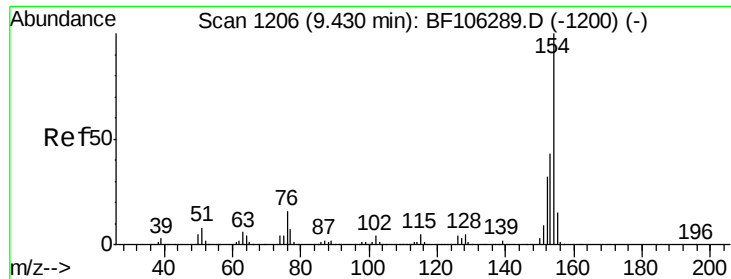
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#44
 2-Fluorobiphenyl
 Concen: 0.842 ng
 RT: 9.33 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: BF106361.D
 Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.7	44.5
170	23.9	19.6	29.4





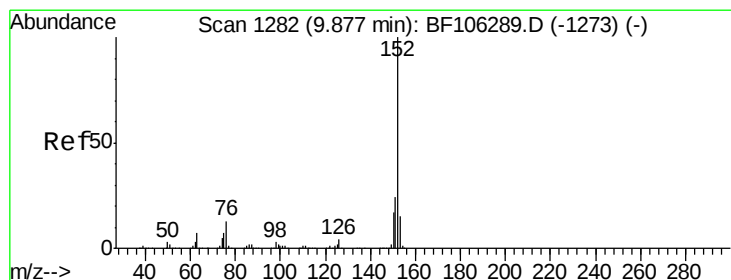
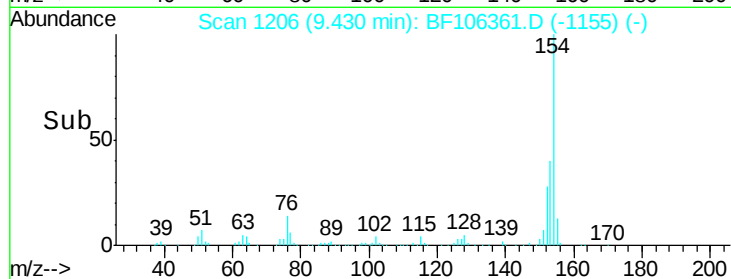
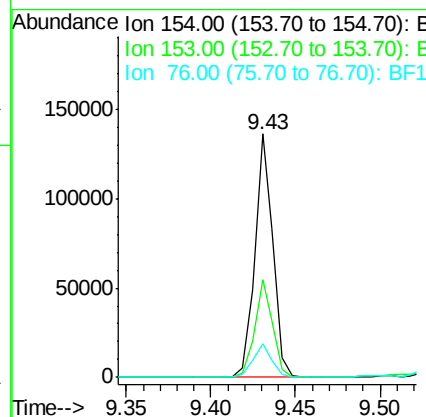
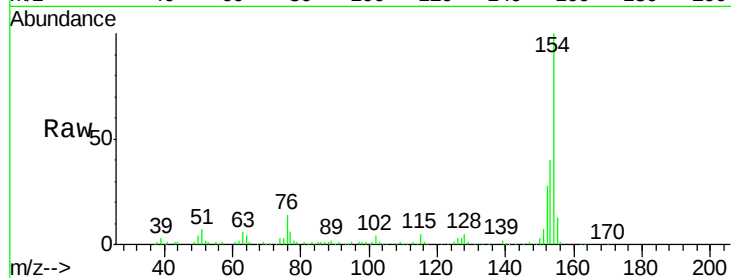
#45
 1,1'-Biphenyl
 Concen: 6.617 ng
 RT: 9.43 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: BF106361.D
 Acq: 12 Jun 2018 22:44

Instrument :
 BNA_F
 ClientSampleId :
 SB02-3_E_5

Tot Ion:	154	Resp:	101251
Ion Ratio	Lower	Upper	
154	100		
153	40.1	21.3	61.3
76	13.8	0.0	34.0

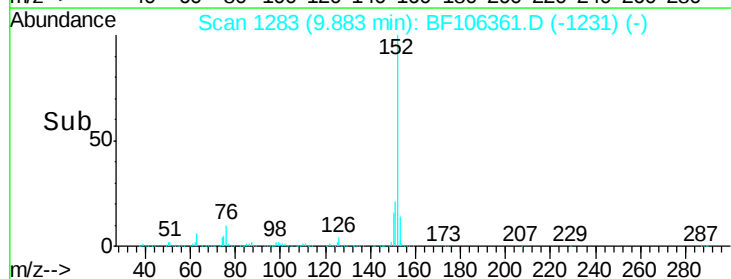
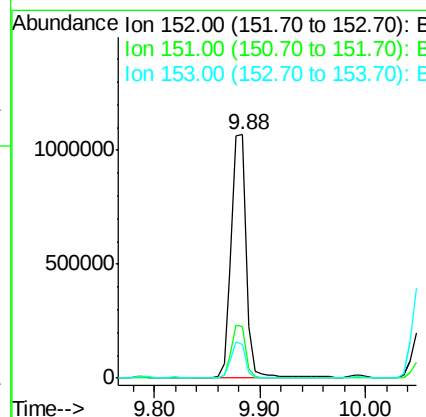
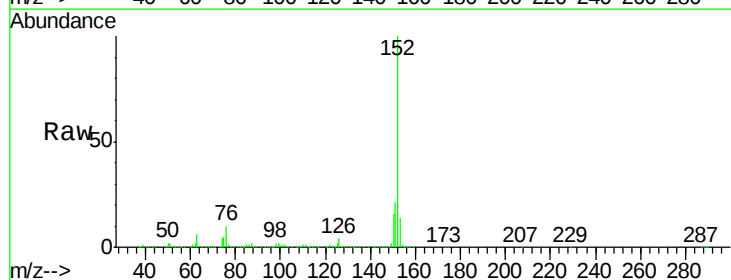
Manual Integrations
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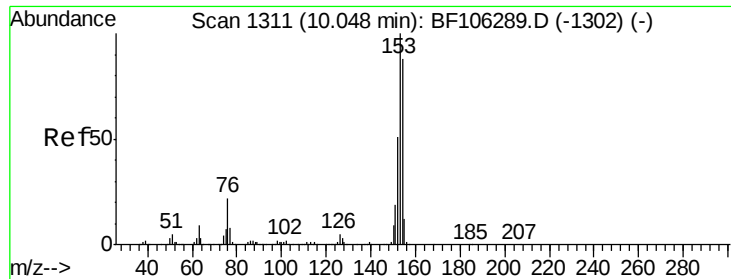
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#48
 Acenaphthylene
 Concen: 56.383 ng
 RT: 9.88 min Scan# 1283
 Delta R.T. 0.01 min
 Lab File: BF106361.D
 Acq: 12 Jun 2018 22:44

Tgt Ion:	152	Resp:	1056851
Ion Ratio	Lower	Upper	
152	100		
151	21.4	16.3	24.5
153	13.7	10.7	16.1





#51

Acenaphthene

Concen: 23.296 ng

RT: 10.05 min Scan# 1311

Delta R.T. 0.00 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

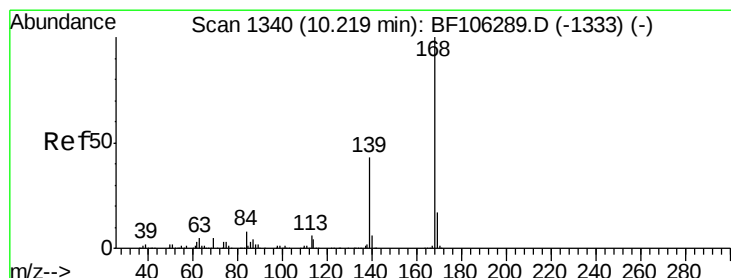
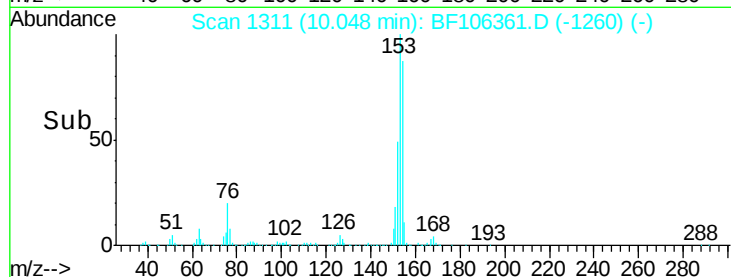
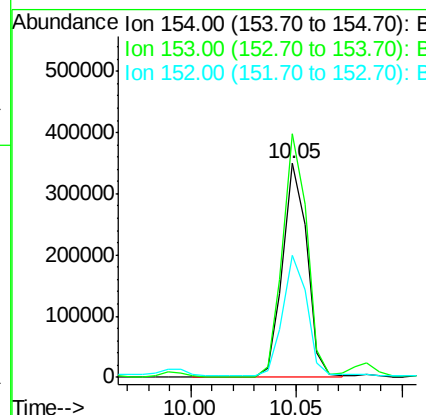
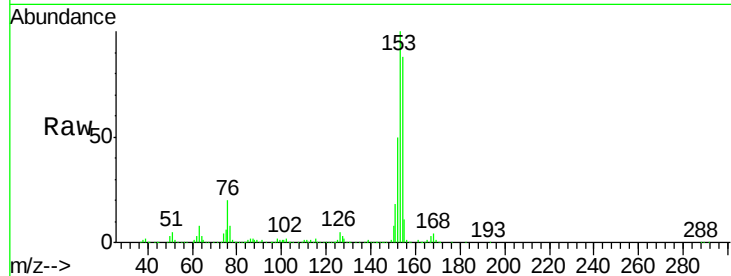
ClientSampleId :

SB02-3_E_5

Tot Ion:	154	Resp:	281997
Ion Ratio	Lower	Upper	
154	100		
153	113.8	91.2	136.8
152	56.8	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 15.828 ng

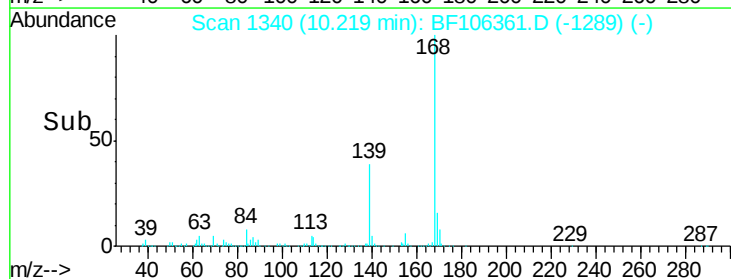
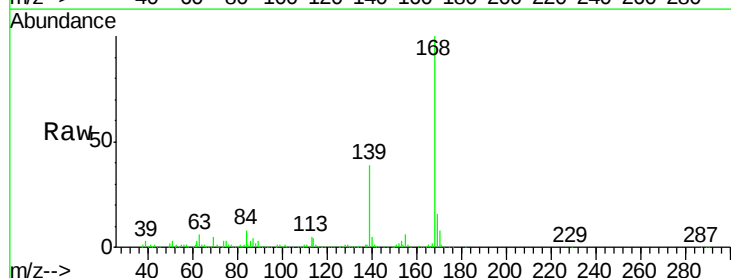
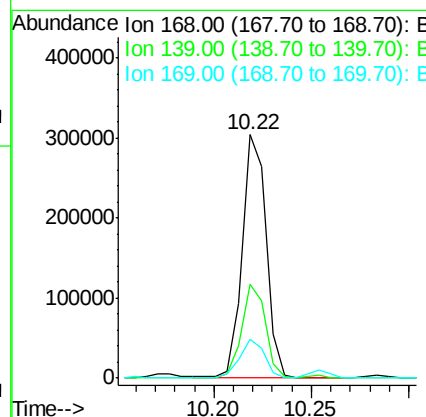
RT: 10.22 min Scan# 1340

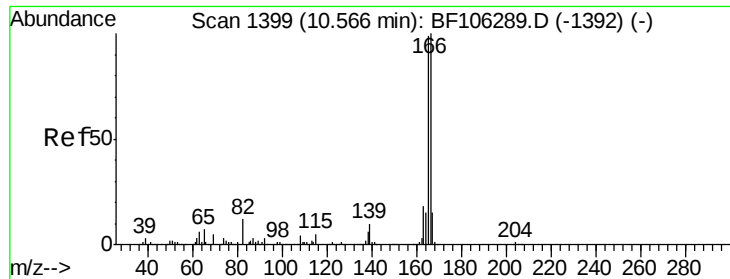
Delta R.T. 0.00 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion:	168	Resp:	258007
Ion Ratio	Lower	Upper	
168	100		
139	38.8	30.1	45.1
169	16.1	10.9	16.3





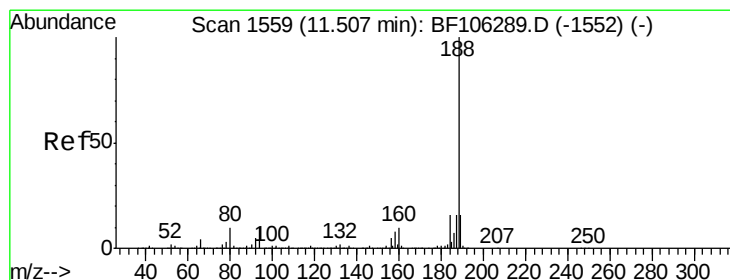
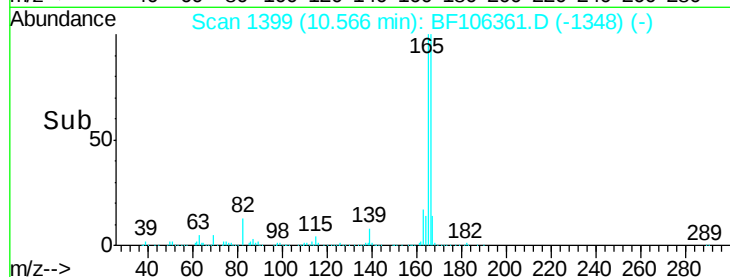
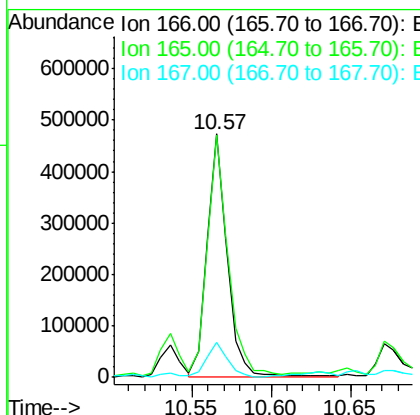
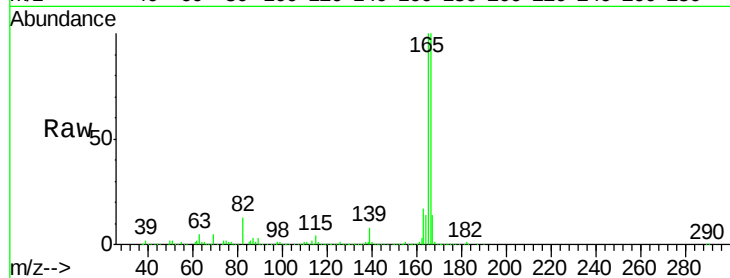
#57
Fluorene
 Concen: 32.399 ng
 RT: 10.57 min Scan# 1399
 Delta R.T. 0.00 min
 Lab File: BF106361.D
 Acq: 12 Jun 2018 22:44

Instrument :
 BNA_F
 ClientSampleId :
 SB02-3_E_5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		418426		
165	99.6	79.8	119.8		
167	14.2	10.6	16.0		

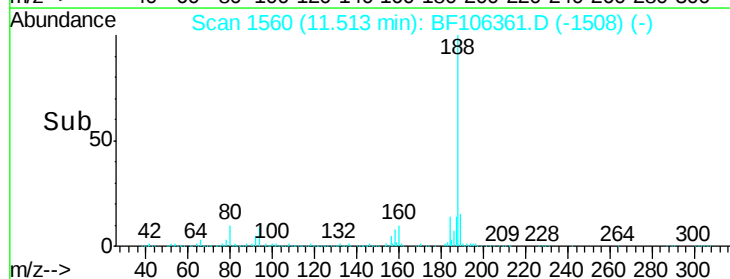
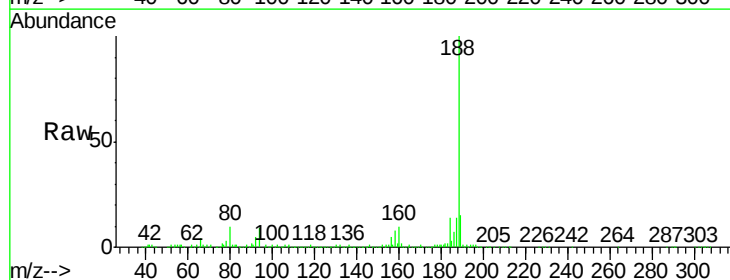
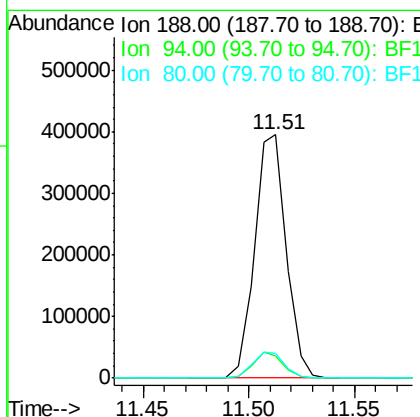
Manual Integrations
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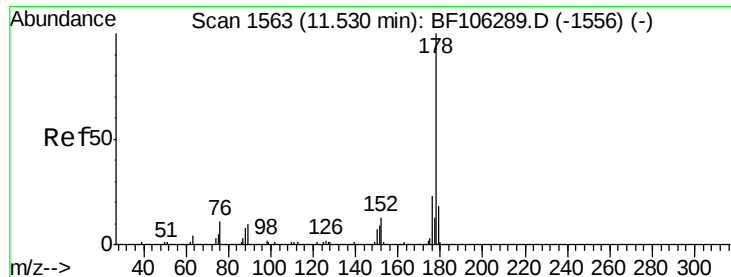
Sohil
 6/14/2018 3:53:22 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1560
 Delta R.T. 0.01 min
 Lab File: BF106361.D
 Acq: 12 Jun 2018 22:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		410427		
94	9.0	8.5	12.7		
80	10.0	9.2	13.8		





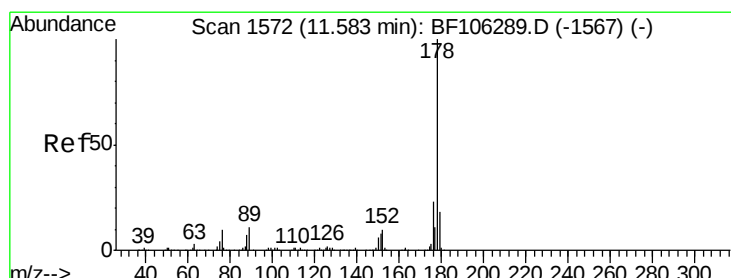
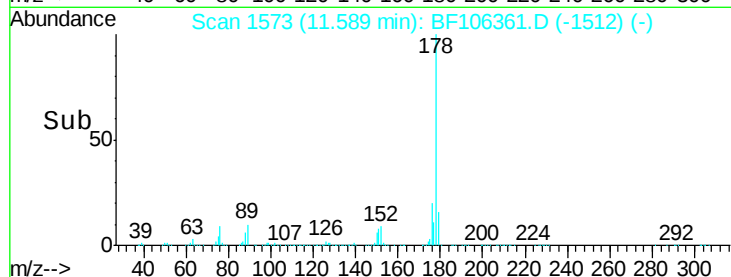
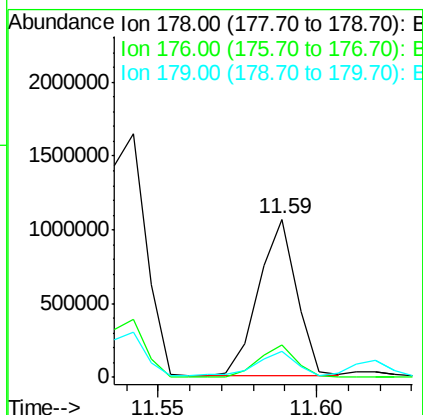
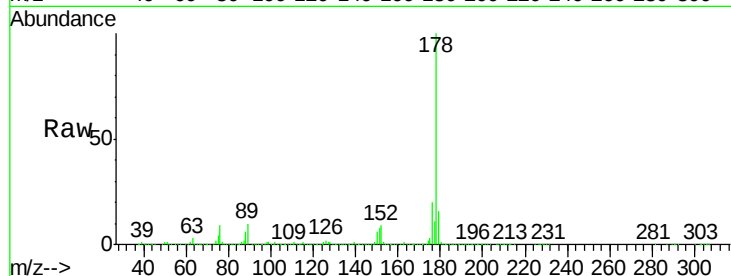
#70
Phenanthrene
Concen: 44.484 ng
RT: 11.59 min Scan# 1573
Delta R.T. 0.06 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.8	23.8
179	16.4	13.0	19.6

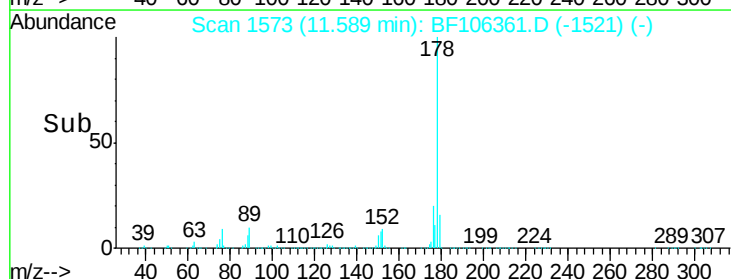
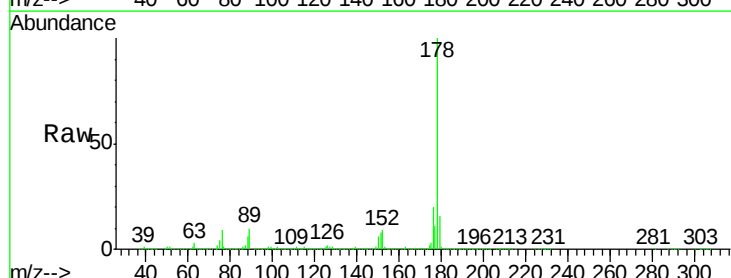
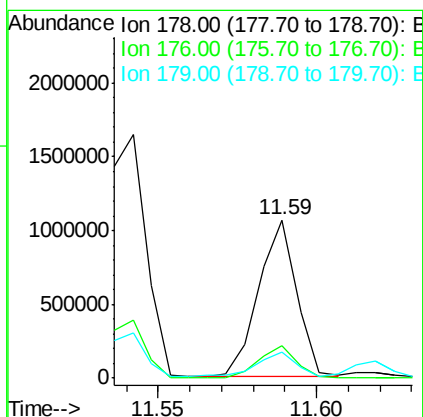
Manual Integrations
APPROVED

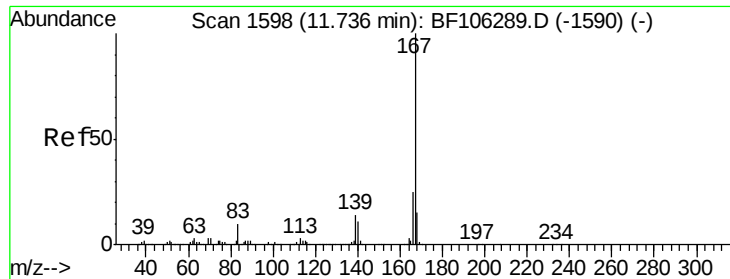
Sohil
6/14/2018 3:53:22 PM



#71
Anthracene
Concen: 44.403 ng
RT: 11.59 min Scan# 1573
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.4	23.2
179	16.4	12.6	19.0





#72

Carbazole

Concen: 9.759 ng

RT: 11.74 min Scan# 1599

Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

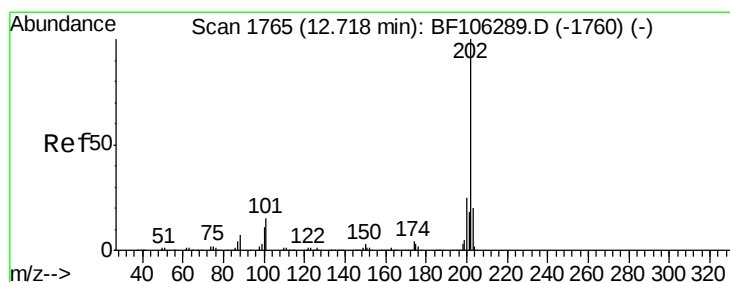
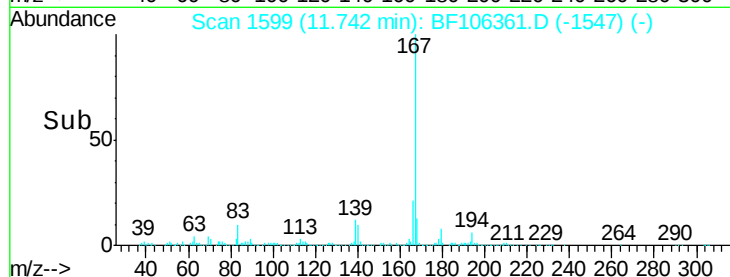
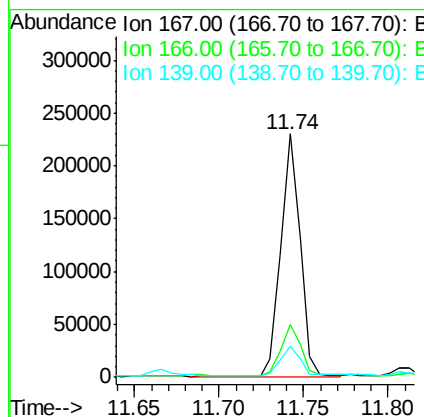
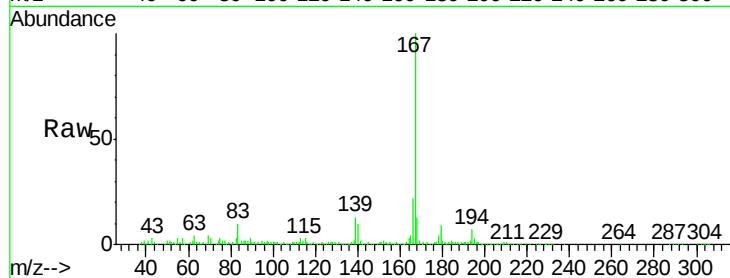
ClientSampleId :

SB02-3_E_5

Tot Ion:	167	Resp:	181423
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.6	26.4
139	12.7	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 123.411 ng

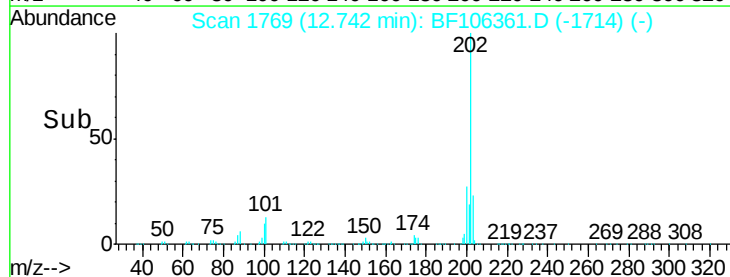
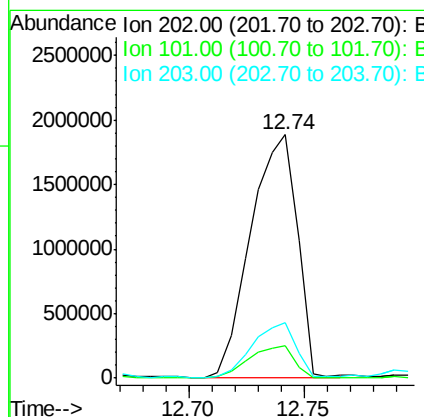
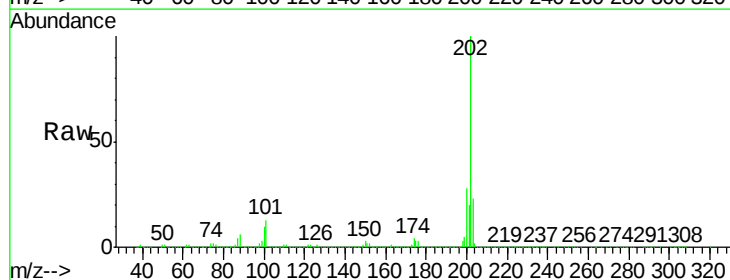
RT: 12.74 min Scan# 1769

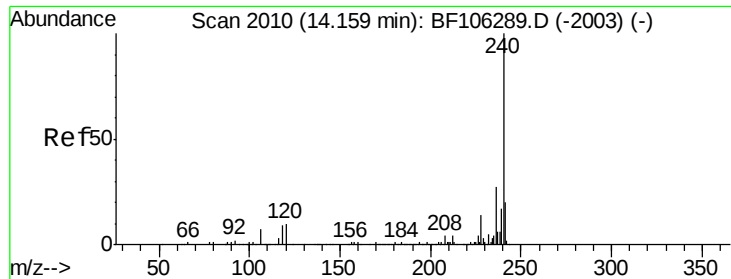
Delta R.T. 0.02 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion:	202	Resp:	2645413
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	34.1
203	22.6	0.0	38.1





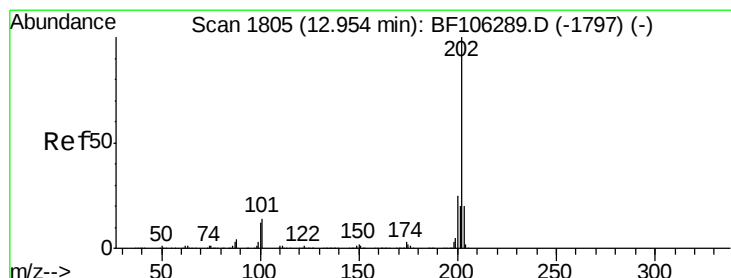
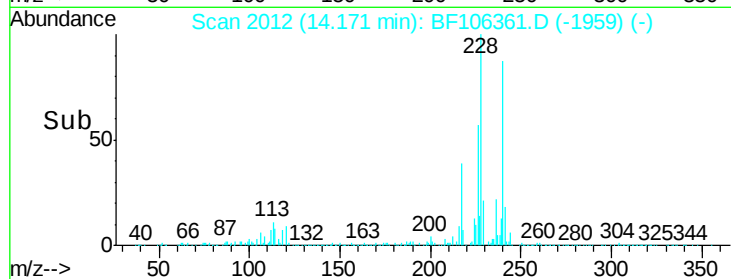
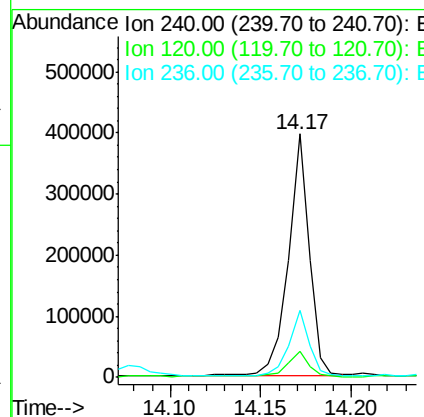
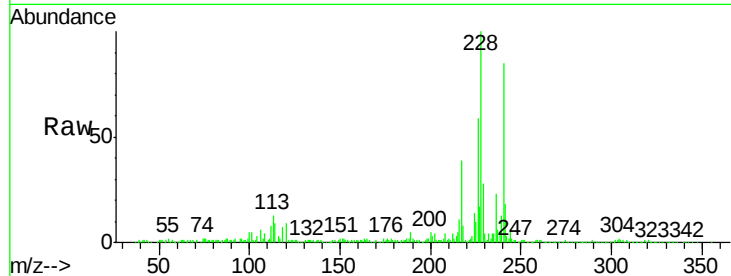
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.17 min Scan# 2012
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.5	14.3
236	27.4	20.7	31.1

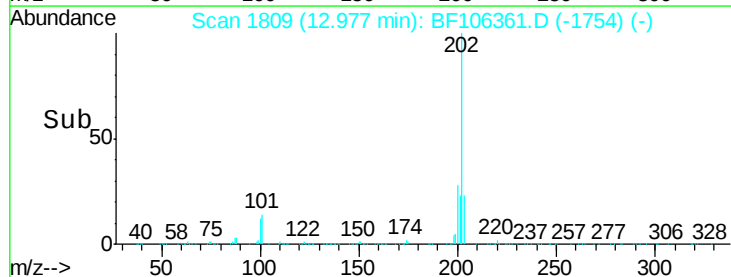
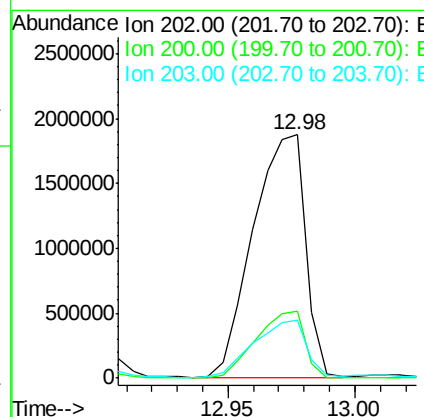
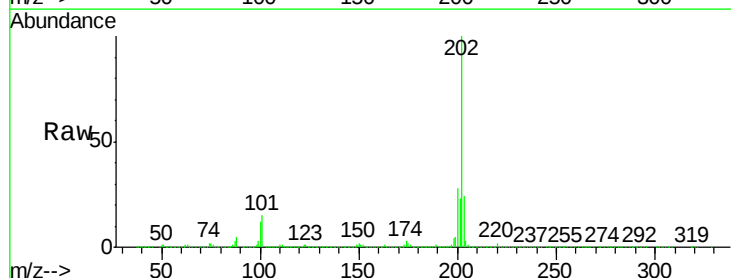
Manual Integrations
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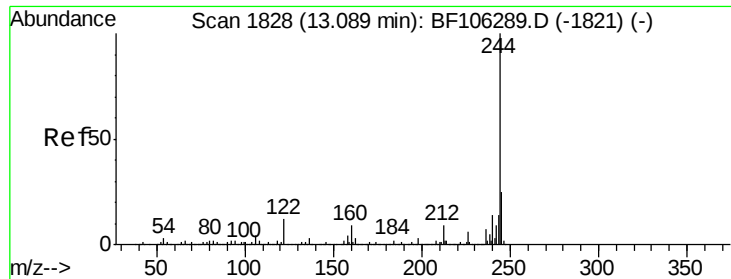
Sohil
6/14/2018 3:53:22 PM



#77
Pyrene
Concen: 135.489 ng
RT: 12.98 min Scan# 1809
Delta R.T. 0.02 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
202	100		
200	27.6	17.4	26.2#
203	23.8	14.3	21.5#





#78

Terphenyl-d14

Concen: 11.515 ng

RT: 13.09 min Scan# 1828

Delta R.T. 0.00 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

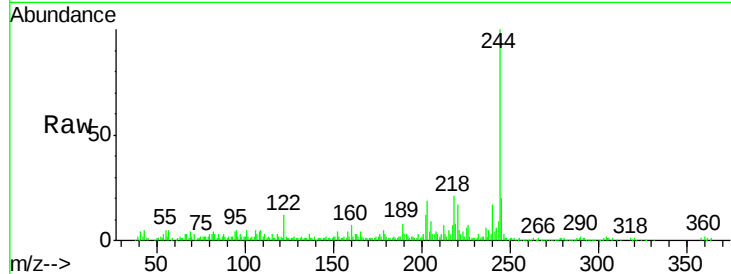
ClientSampleId :

SB02-3_E_5

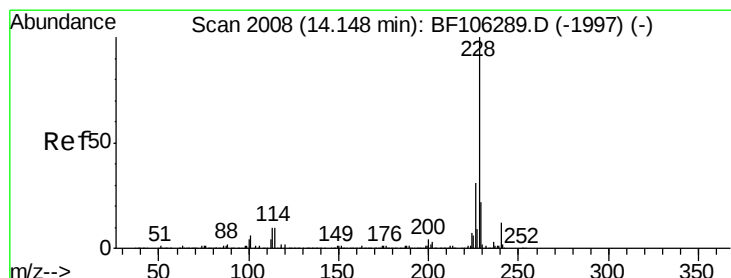
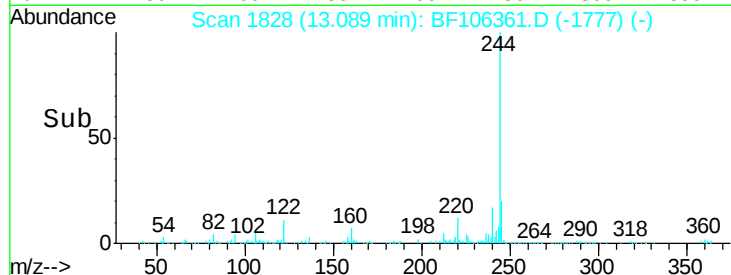
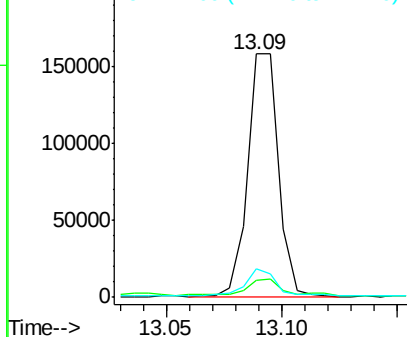
Tot Ion:	244	Resp:	147325
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.4	8.0
122	11.6	11.0	16.4

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



#80

Benzo(a)anthracene

Concen: 109.435 ng

RT: 14.16 min Scan# 2010

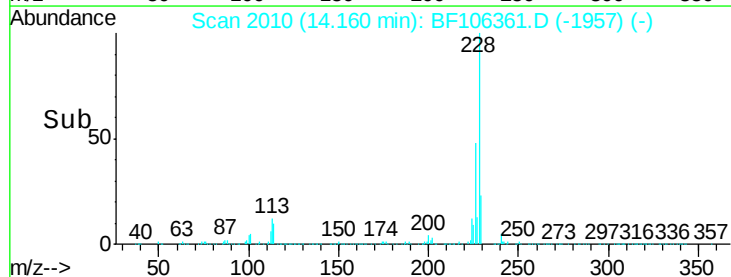
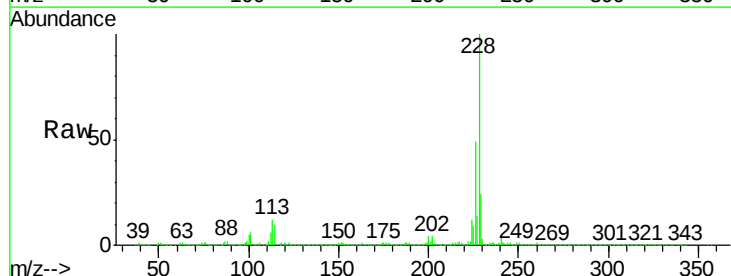
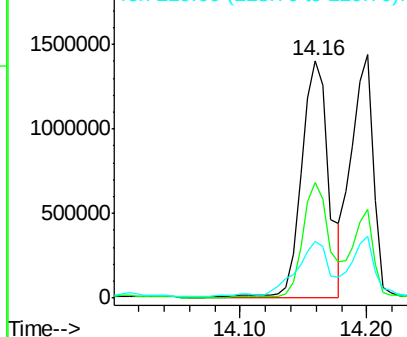
Delta R.T. 0.01 min

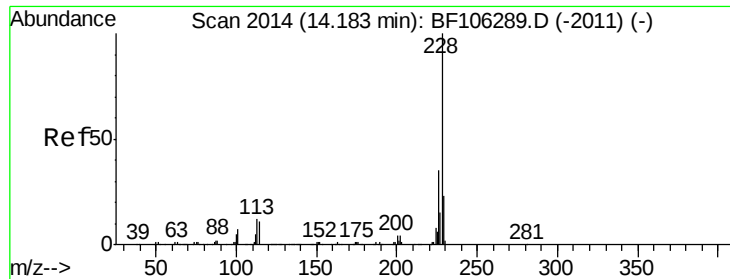
Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion:	228	Resp:	2069575
Ion Ratio	Lower	Upper	
228	100		
226	48.7	22.6	33.8#
229	23.7	15.8	23.6#

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





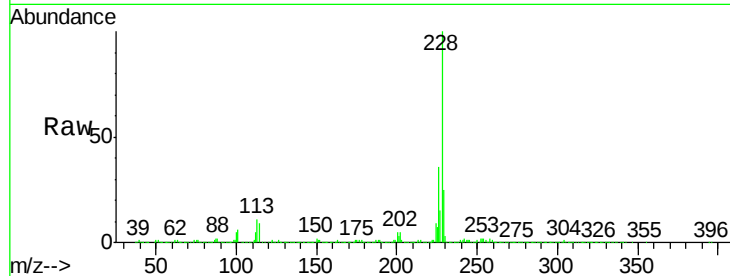
#82
Chrysene
Concen: 98.930 ng
RT: 14.20 min Scan# 2017
Delta R.T. 0.02 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

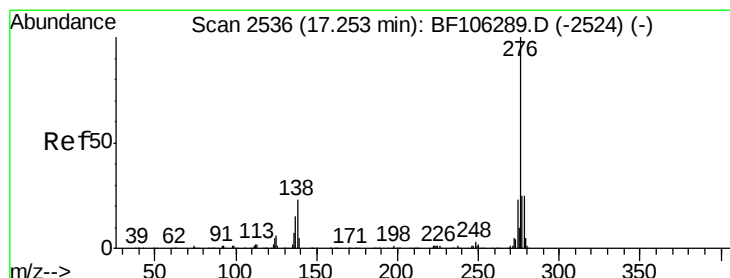
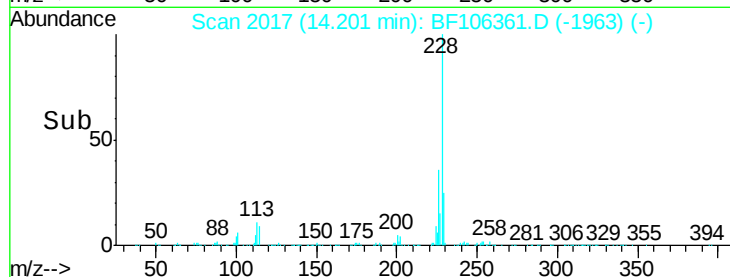
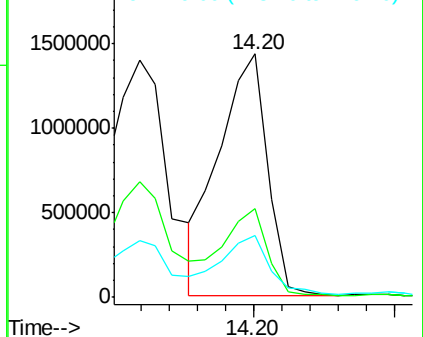
Tot Ion:228 Resp: 1708142
Ion Ratio Lower Upper
228 100
226 36.3 25.0 37.6
229 25.5 16.2 24.4#

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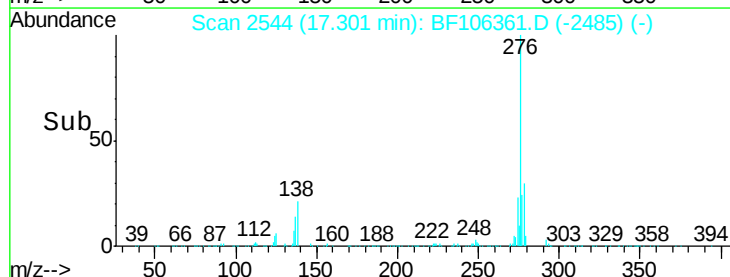
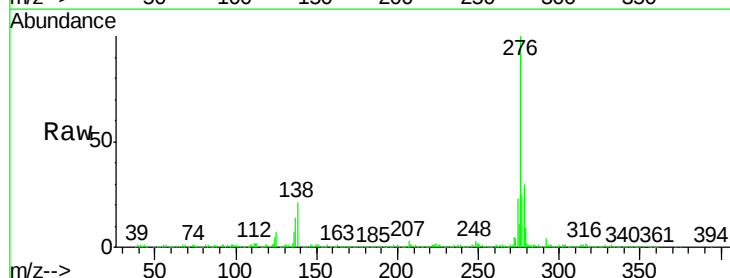
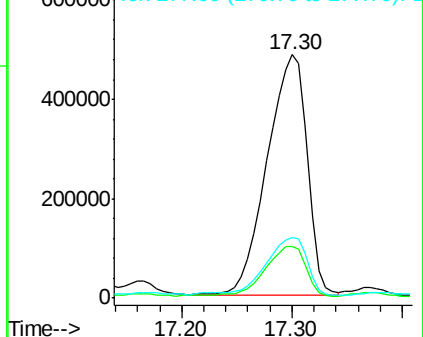
Abundance Ion 228.00 (227.70 to 228.70): E
2000000
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

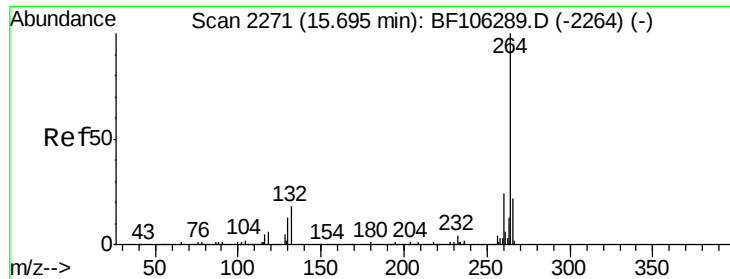


#85
Indeno(1,2,3-cd)pyrene
Concen: 87.850 ng
RT: 17.30 min Scan# 2544
Delta R.T. 0.05 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion:276 Resp: 1210568
Ion Ratio Lower Upper
276 100
138 21.1 25.0 37.6#
277 25.7 20.1 30.1

Abundance Ion 276.00 (275.70 to 276.70): E
600000
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





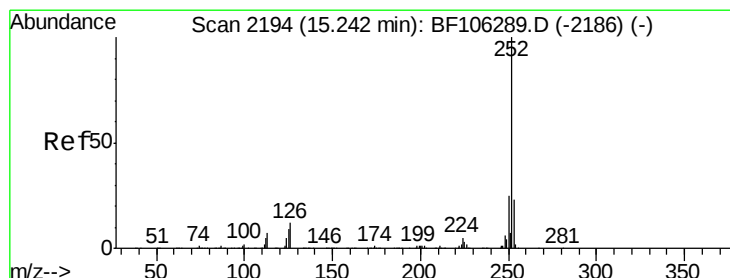
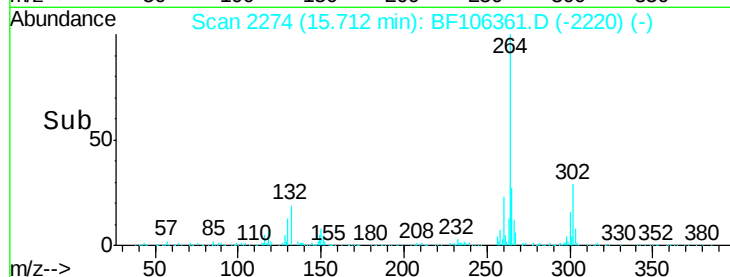
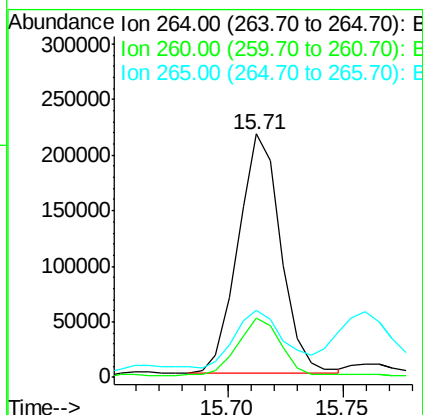
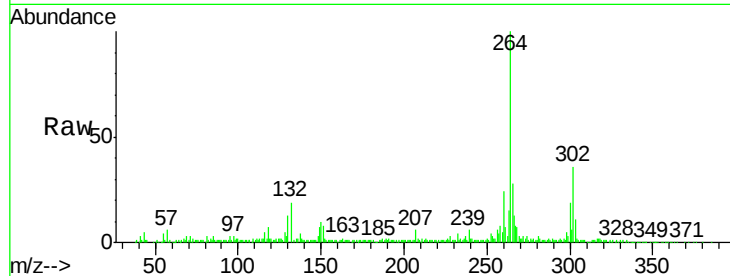
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.71 min Scan# 2274
Delta R.T. 0.02 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	27.7	17.5	26.3

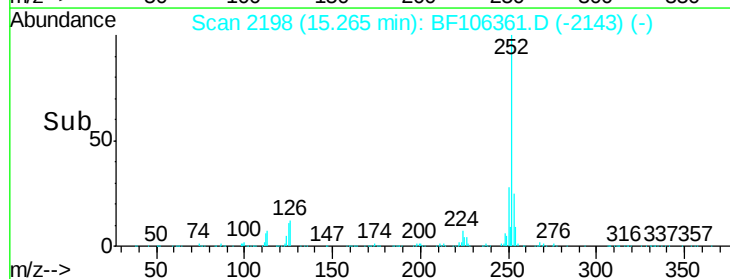
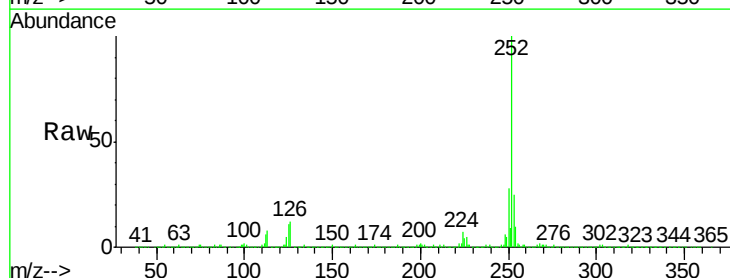
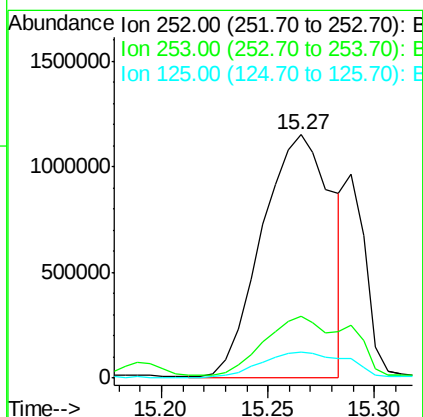
Manual Integrations
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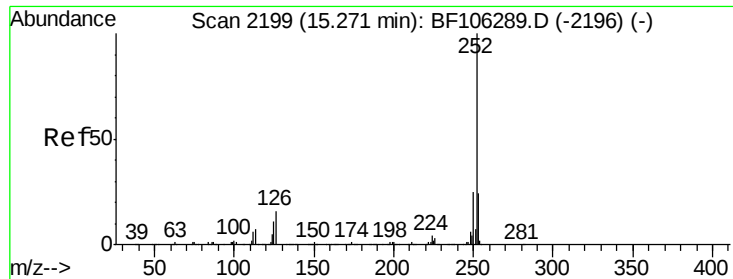
Sohil
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#87
Benzo(b)fluoranthene
Concen: 156.318 ng m
RT: 15.27 min Scan# 2198
Delta R.T. 0.02 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.0	25.6
125	10.9	9.0	13.6





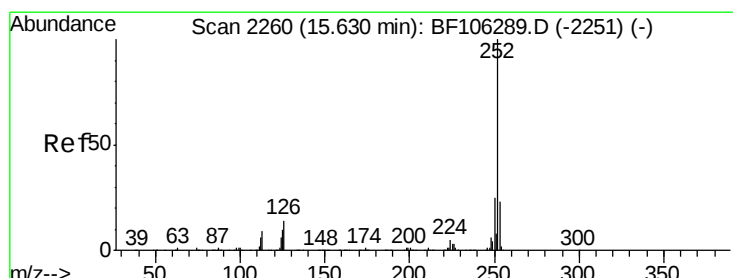
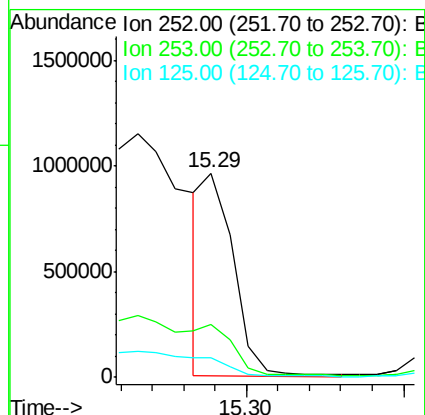
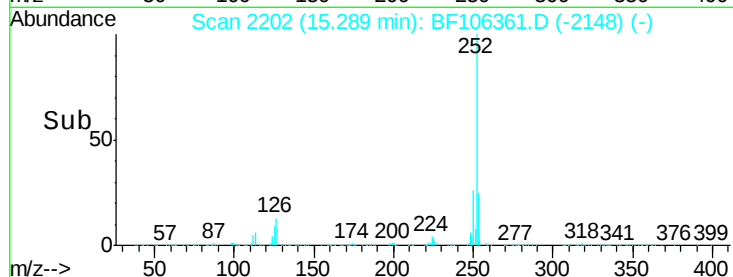
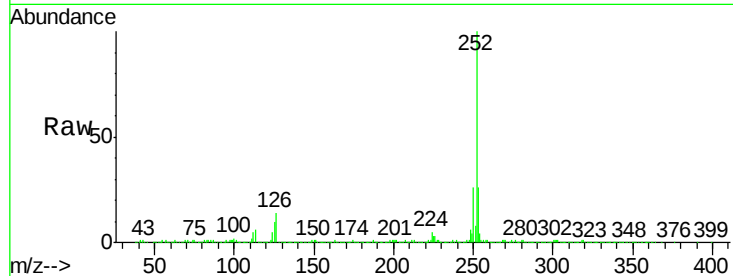
#88
Benzo(k)fluoranthene
Concen: 38.646 ng m
RT: 15.29 min Scan# 2202
Delta R.T. 0.02 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.0	17.9	26.9
125	9.8	10.2	15.2#

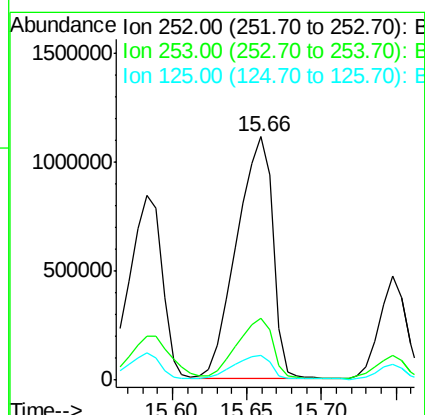
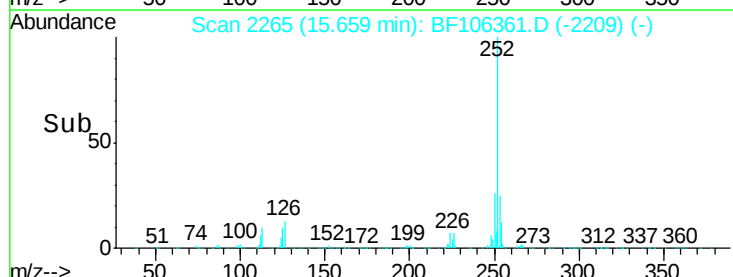
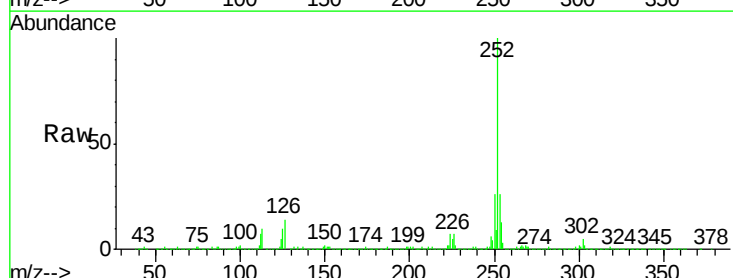
Manual Integrations
APPROVED

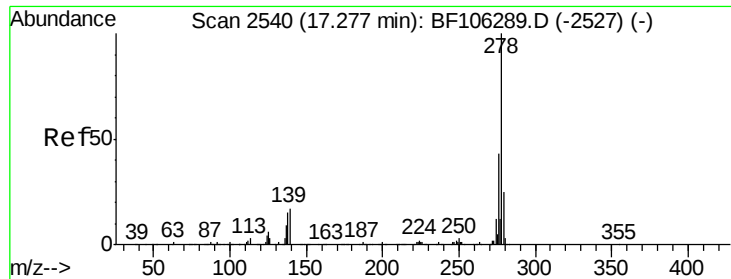
Sohil
6/14/2018 3:53:22 PM



#89
Benzo(a)pyrene
Concen: 123.035 ng
RT: 15.66 min Scan# 2265
Delta R.T. 0.03 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.1	25.7
125	10.4	9.8	14.6





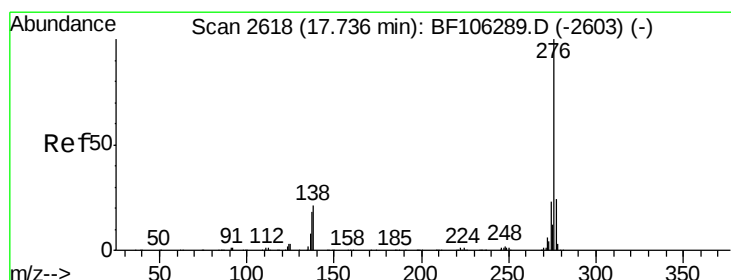
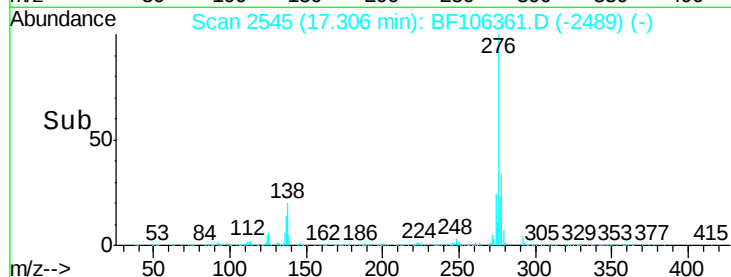
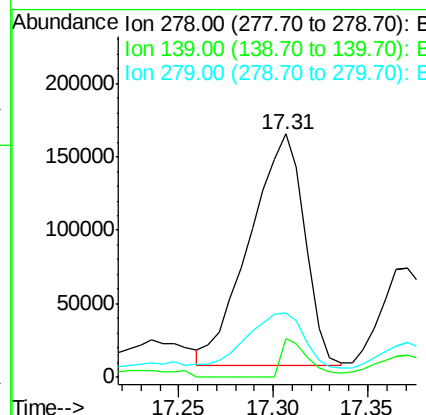
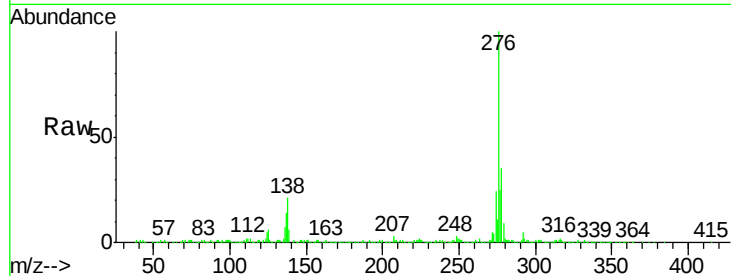
#90
Dibenzo(a,h)anthracene
Concen: 25.137 ng m
RT: 17.31 min Scan# 2545
Delta R.T. 0.03 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :
SB02-3_E_5

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.1	15.9	23.9
279	26.7	19.0	28.4

Manual Integrations
APPROVED

Sohil
6/14/2018 3:53:22 PM



#91
Benzo(g,h,i)perylene
Concen: 98.568 ng
RT: 17.79 min Scan# 2627
Delta R.T. 0.05 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	17.9	26.9
138	22.1	21.8	32.8

