

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
 Data File : BF106404.D
 Acq On : 13 Jun 2018 21:09
 Operator : JU/SJ
 Sample : J3322-02DL 200X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7DL

Manual Integrations
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Quant Time: Jun 14 03:54:23 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 13 10:51:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	120333	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	485479	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	222876	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	399816	20.00	ng	0.00
75) Chrysene-d12	14.15	240	293256	20.00	ng	-0.01
86) Perylene-d12	15.68	264	307875	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	4466	0.63	ng	0.00
7) Phenol-d6	6.63	99	5179	0.58	ng	0.00
23) Nitrobenzene-d5	7.52	82	3339	0.40	ng	-0.02
41) 2,4,6-Tribromophenol	10.79	330	856	0.40	ng	-0.02
44) 2-Fluorobiphenyl	9.32	172	6199	-1.00	ng	-0.01
78) Terphenyl-d14	13.08	244	5841	0.49	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.27	128	236434	10.773	ng	99
37) 2-Methylnaphthalene	8.96	142	66960	4.480	ng	97
48) Acenaphthylene	9.87	152	192826	9.119	ng	98
51) Acenaphthene	10.04	154	75194	5.506	ng	98
54) Dibenzofuran	10.21	168	154995	8.429	ng	98
57) Fluorene	10.55	166	252728	17.347	ng	99
70) Phenanthrene	11.52	178	1102678	56.315	ng	97
71) Anthracene	11.57	178	310507	15.829	ng	99
72) Carbazole	11.73	167	63993	3.534	ng	97
74) Fluoranthene	12.72	202	1144307	54.800	ng	97
77) Pyrene	12.95	202	932862	50.811	ng	98
80) Benzo(a)anthracene	14.14	228	569323m	32.623	ng	
82) Chrysene	14.17	228	403219	25.307	ng	96
85) Indeno(1,2,3-cd)pyrene	17.24	276	162085m	12.746	ng	
87) Benzo(b)fluoranthene	15.22	252	530436m	28.502	ng	
88) Benzo(k)fluoranthene	15.25	252	235893m	12.798	ng	
89) Benzo(a)pyrene	15.61	252	413504	24.702	ng	94
90) Dibenzo(a,h)anthracene	17.24	278	46392m	3.324	ng	
91) Benzo(a,h,i)perylene	17.71	276	128498	9.474	ng	# 93

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

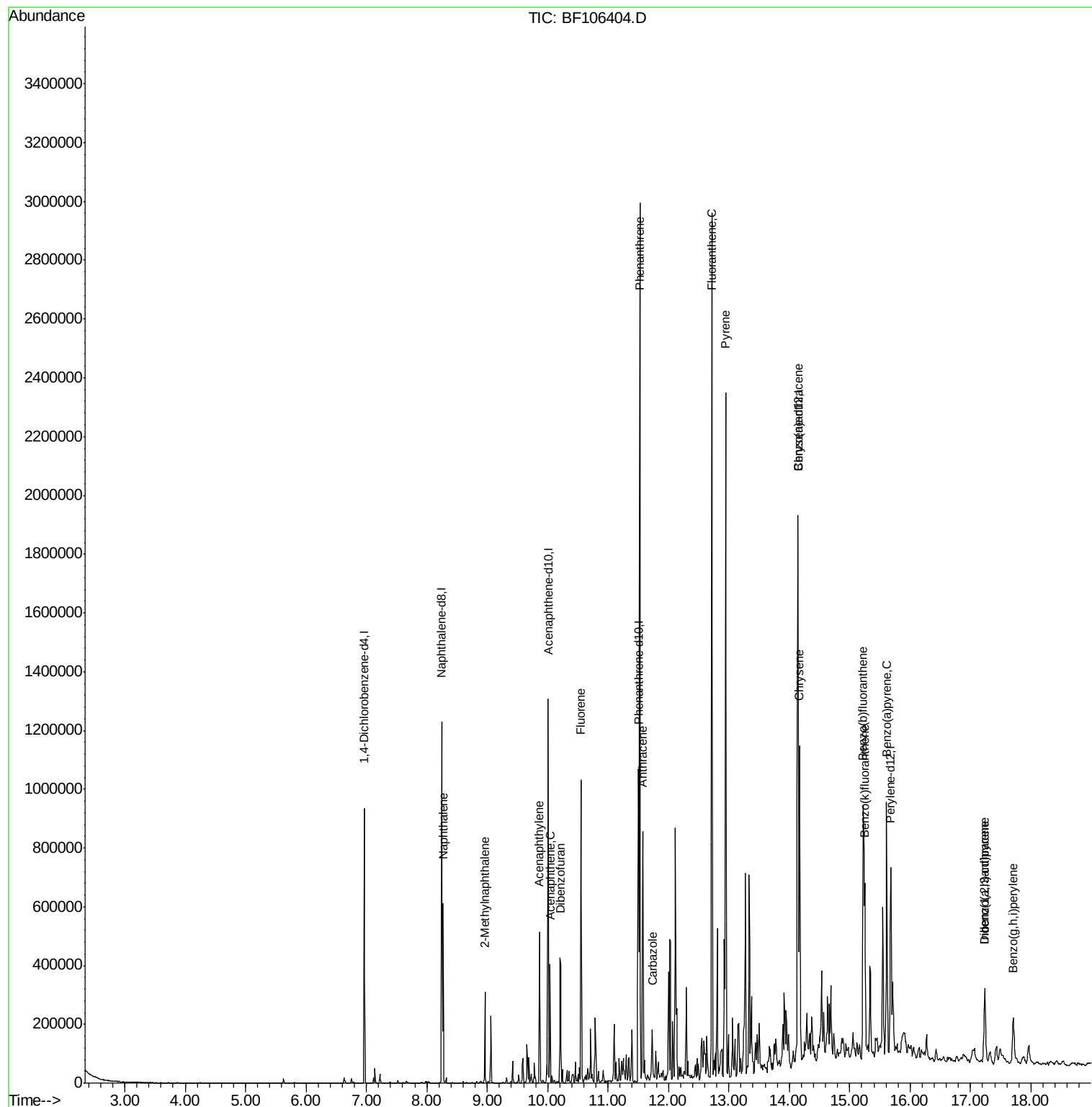
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
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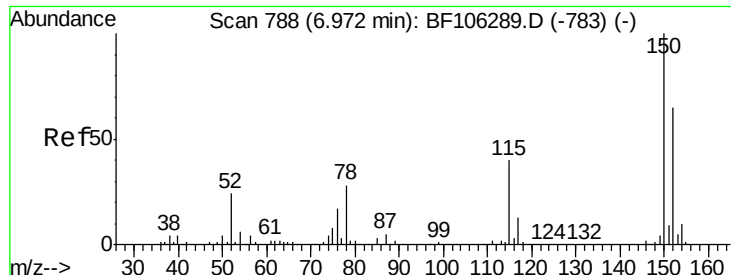
Instrument :
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SB02-2 BOT_7DL

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#1

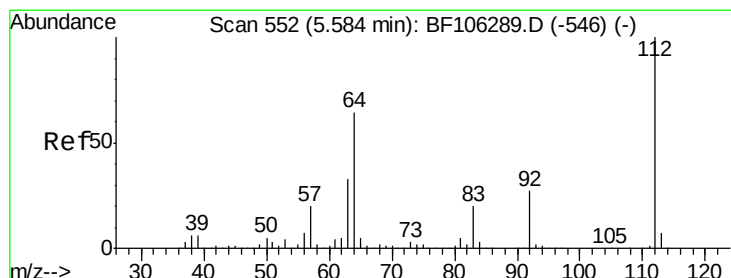
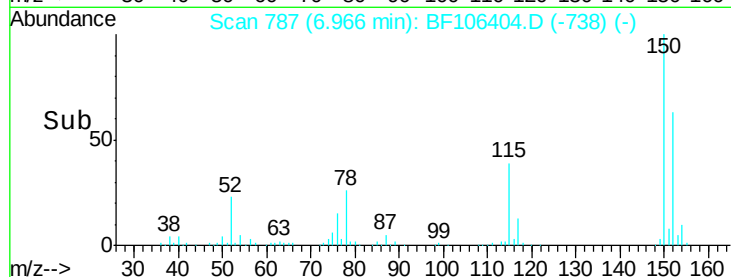
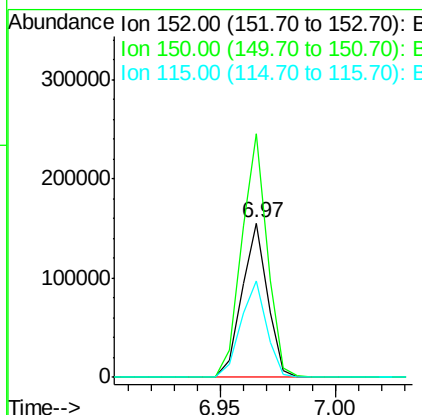
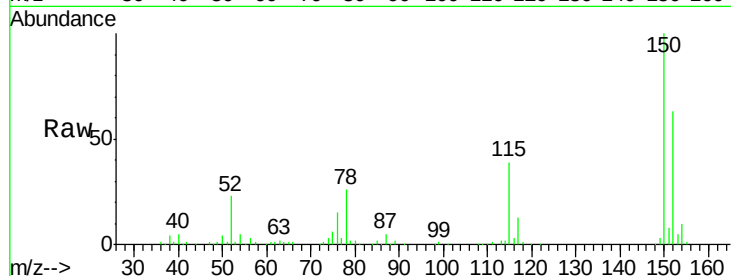
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	62.1	50.1	75.1

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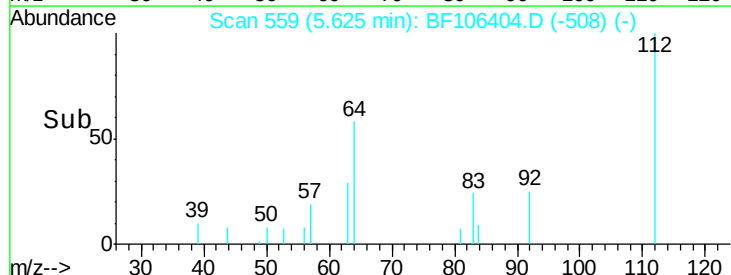
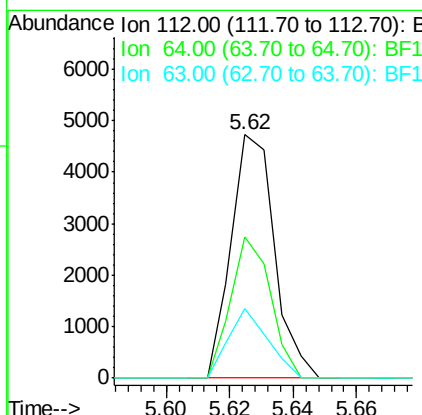
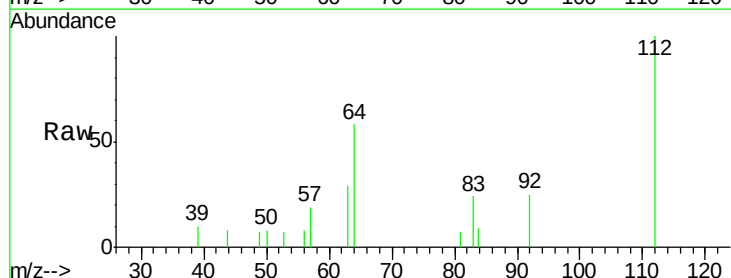
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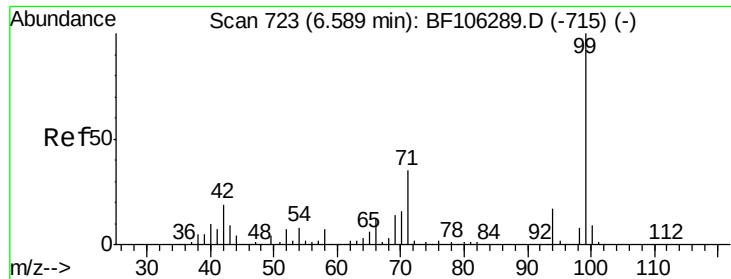


#5

2-Fluorophenol
Concen: 0.628 ng
RT: 5.62 min Scan# 559
Delta R.T. -0.00 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.9	71.9
63	28.5	23.7	35.5





#7

Phenol-d6

Concen: 0.577 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Instrument :

BNA_F

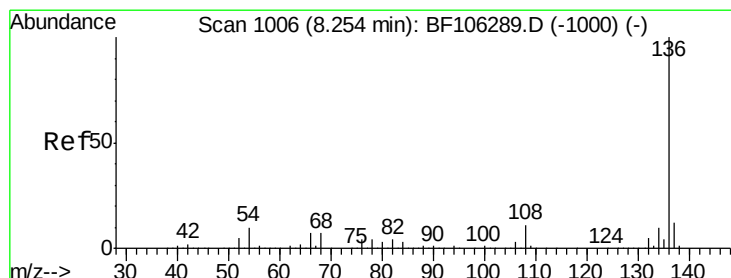
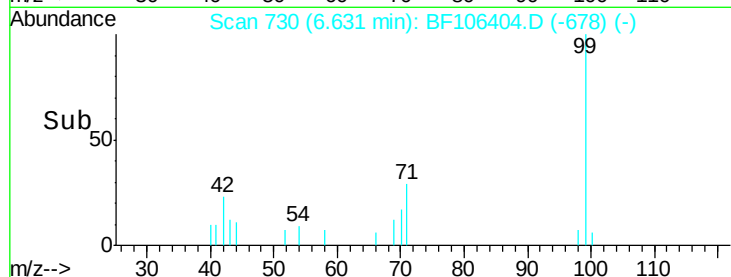
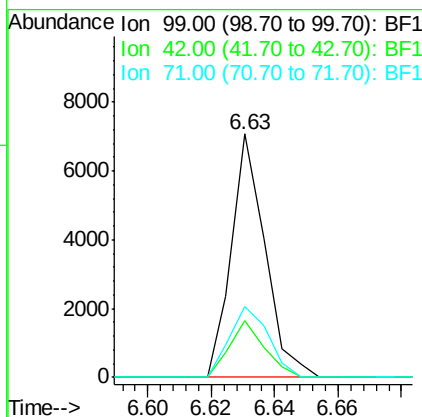
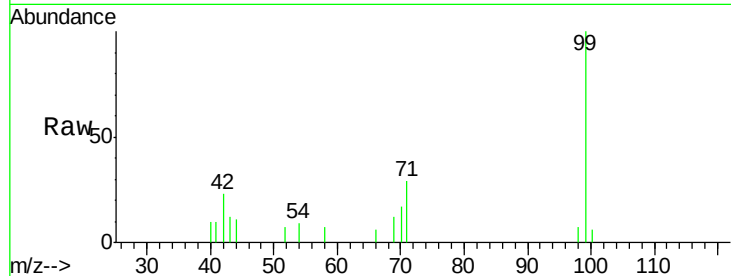
ClientSampleId :

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Tot Ion:	99	Resp:	5179
Ion	Ratio	Lower	Upper
99	100		
42	23.3	14.5	21.7#
71	29.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

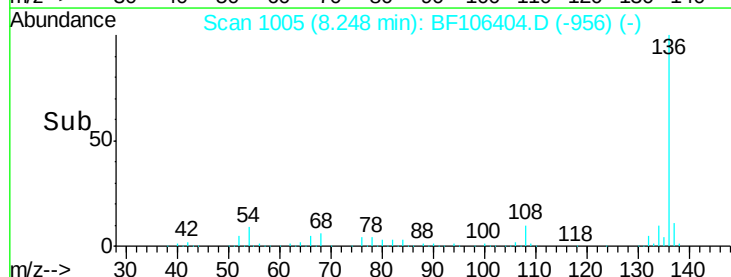
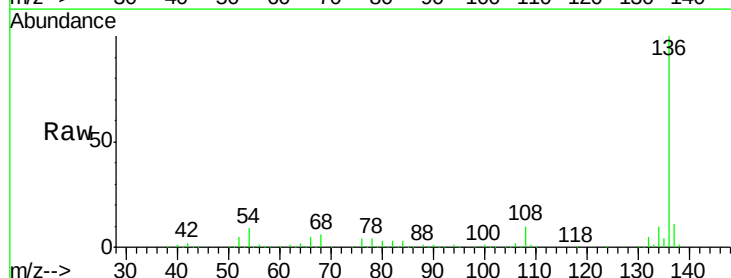
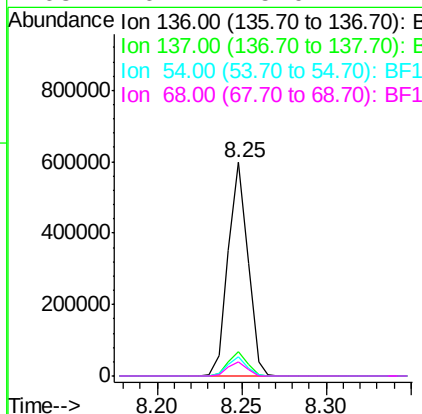
RT: 8.25 min Scan# 1005

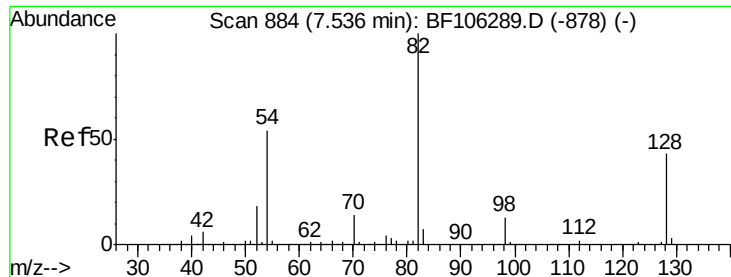
Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Tgt Ion:	136	Resp:	485479
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.7	6.6	9.8
68	6.4	5.0	7.4





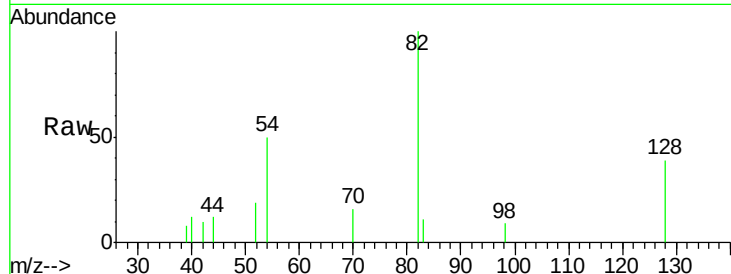
#23
Nitrobenzene-d5
Concen: 0.405 ng
RT: 7.52 min Scan# 881
Delta R.T. -0.02 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7DL

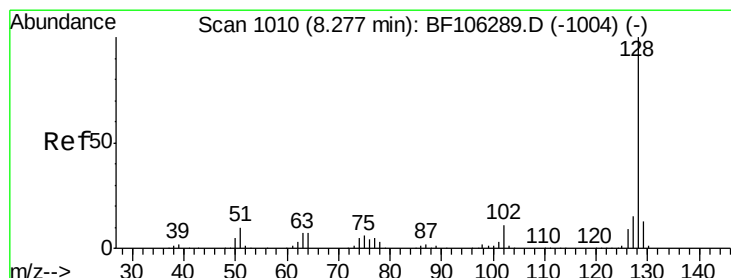
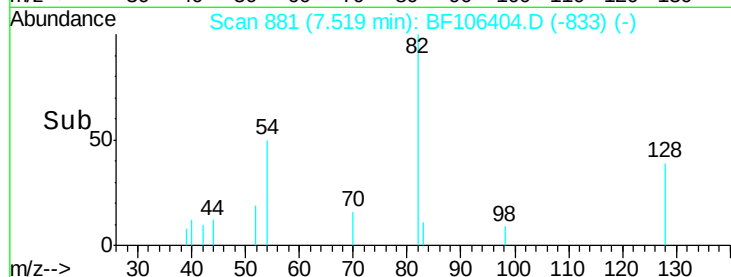
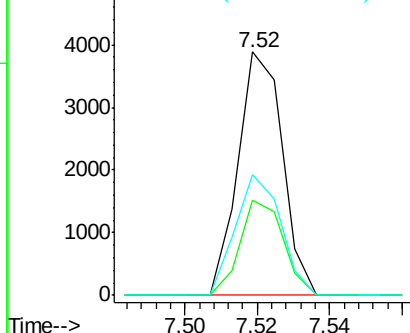
Tot Ion	Ratio	Lower	Upper
82	100		
128	38.9	36.1	54.1
54	49.6	41.4	62.2

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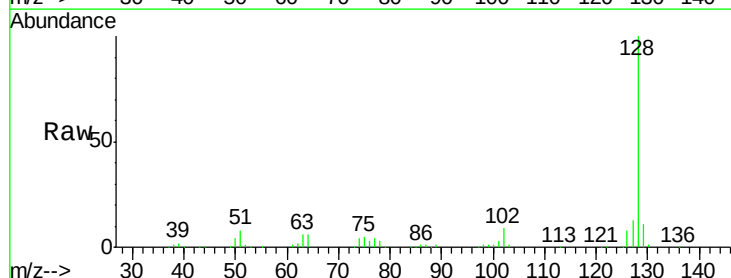


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

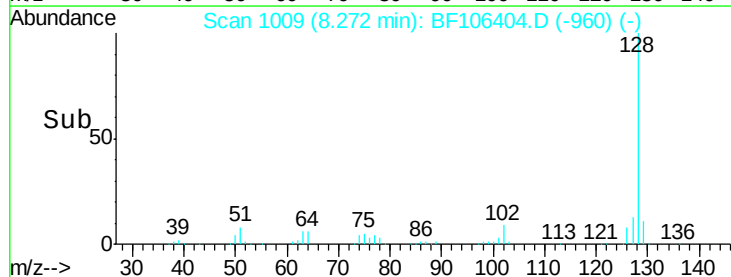
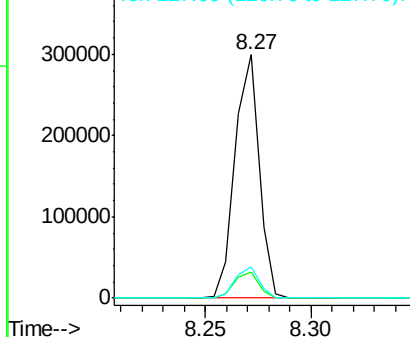


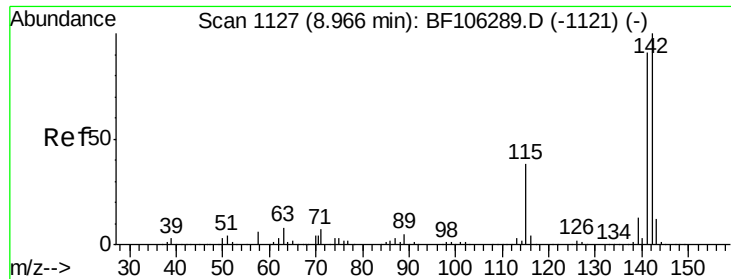
#31
Naphthalene
Concen: 10.773 ng
RT: 8.27 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.0	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





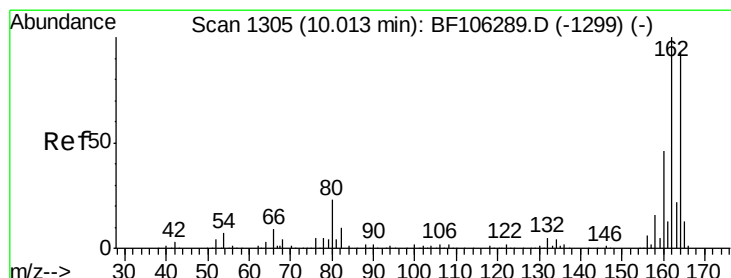
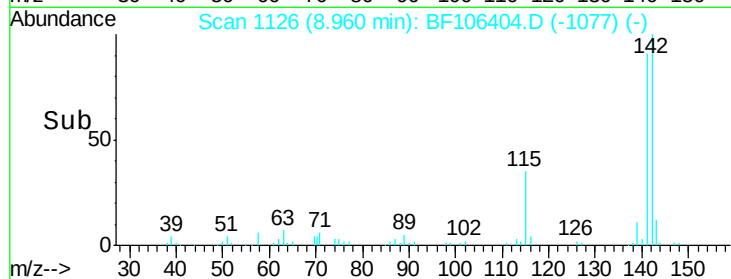
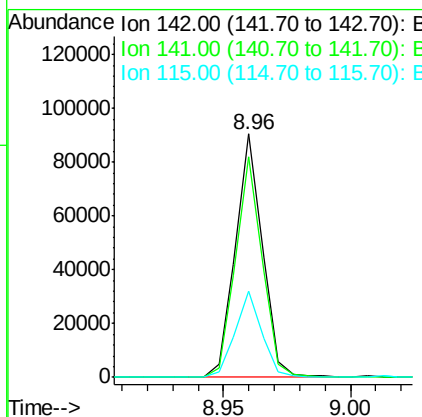
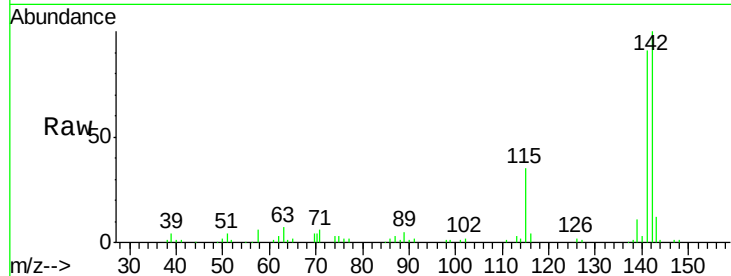
#37
2-Methylnaphthalene
Concen: 4.480 ng
RT: 8.96 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	35.2	26.1	39.1

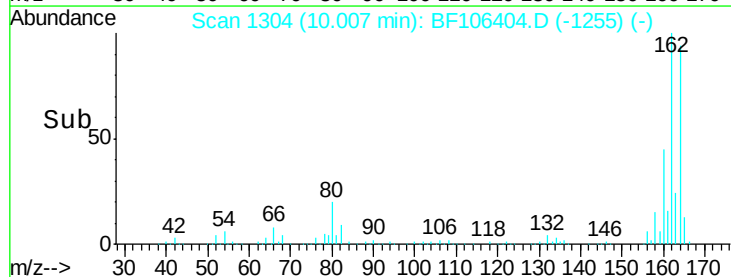
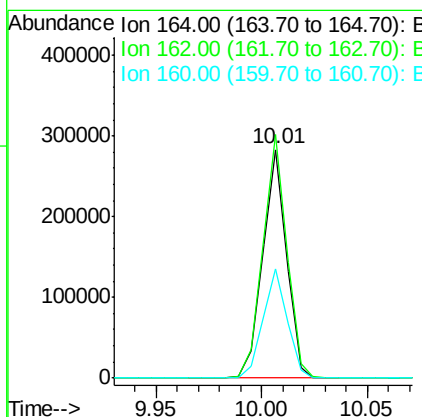
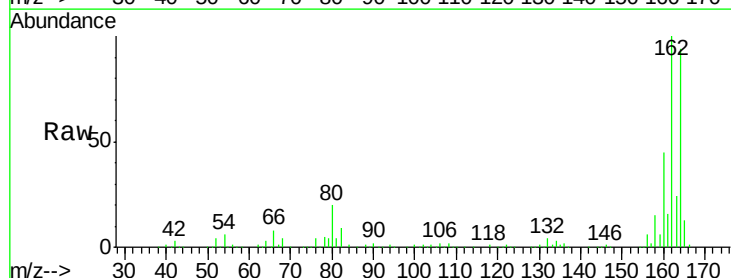
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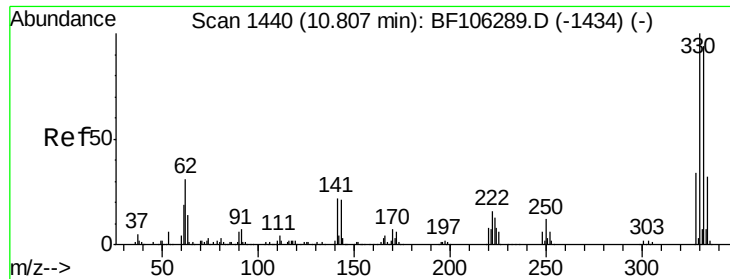
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.5	86.1	129.1
160	48.0	38.3	57.5





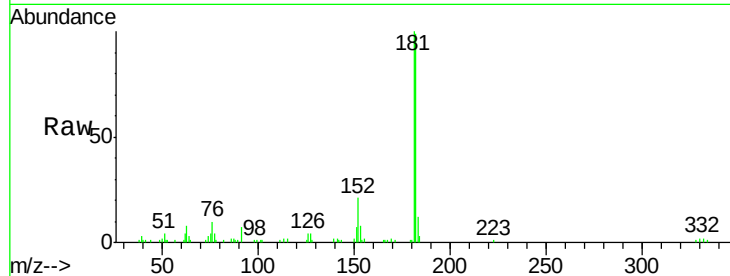
#41
 2,4,6-Tribromophenol
 Concen: 0.399 ng
 RT: 10.79 min Scan# 1438
 Delta R.T. -0.02 min
 Lab File: BF106404.D
 Acq: 13 Jun 2018 21:09

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7DL

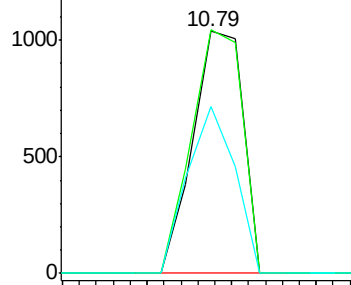
Tot Ion	Ratio	Lower	Upper
330	100		
332	102.5	77.0	115.6
141	65.3	29.9	44.9

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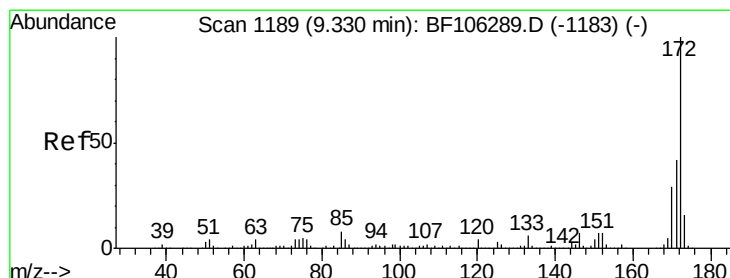
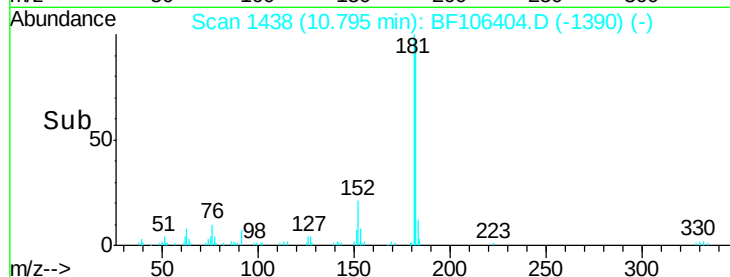
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Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E



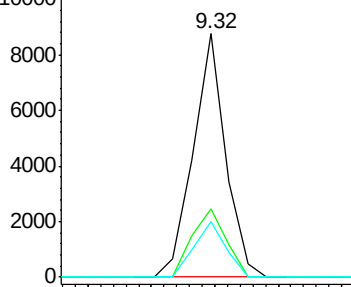
Time--> 10.76 10.78 10.80 10.82



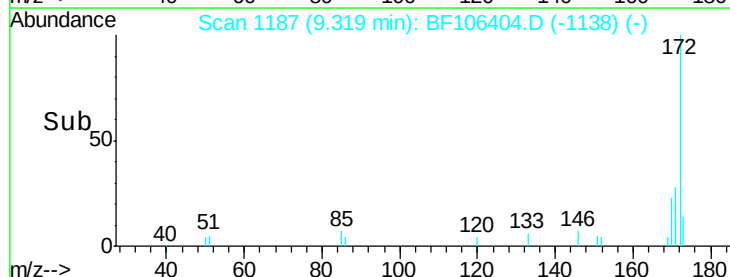
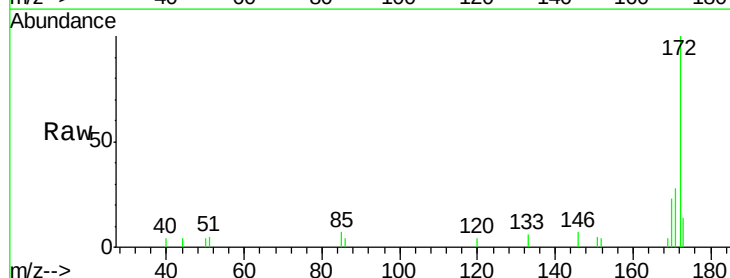
#44
 2-Fluorobiphenyl
 Concen: -1.000 ng
 RT: 9.32 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF106404.D
 Acq: 13 Jun 2018 21:09

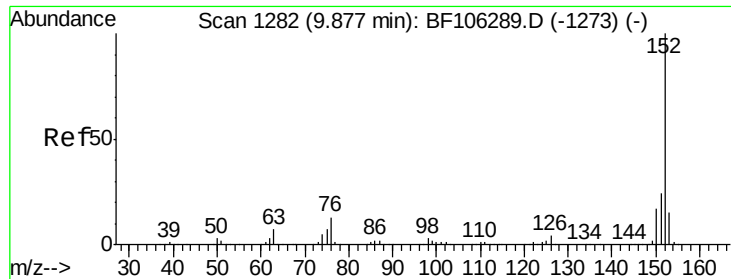
Tgt Ion	Ratio	Lower	Upper
172	100		
171	28.0	29.7	44.5
170	22.7	19.6	29.4

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



Time--> 9.28 9.30 9.32 9.34





#48

Acenaphthylene

Concen: 9.119 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Instrument :

BNA_F

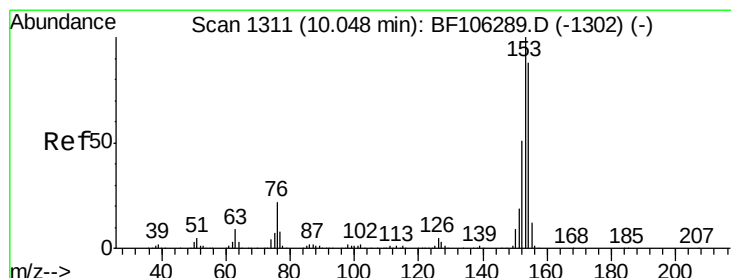
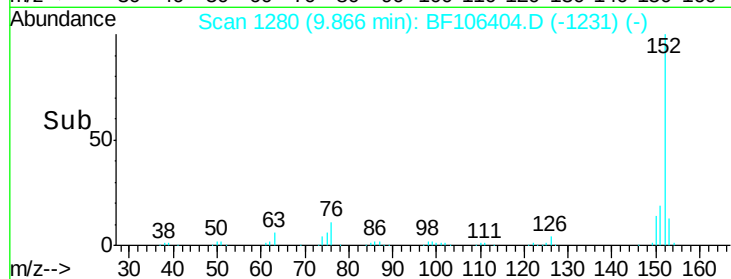
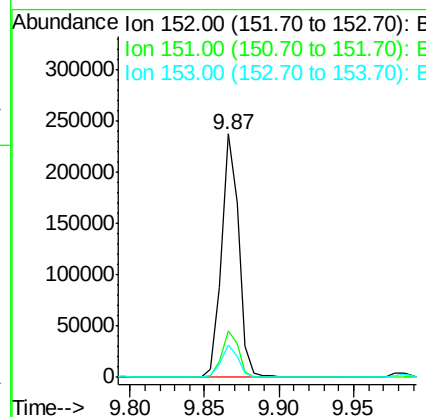
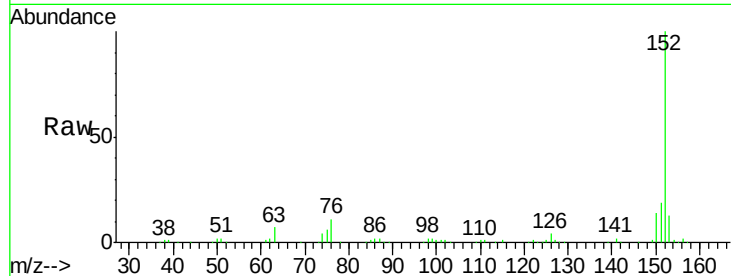
ClientSampleId :

SB02-2 BOT_7DL

Tot Ion:	152	Resp:	192826
Ion Ratio	Lower	Upper	
152	100		
151	19.1	16.3	24.5
153	13.3	10.7	16.1

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#51

Acenaphthene

Concen: 5.506 ng

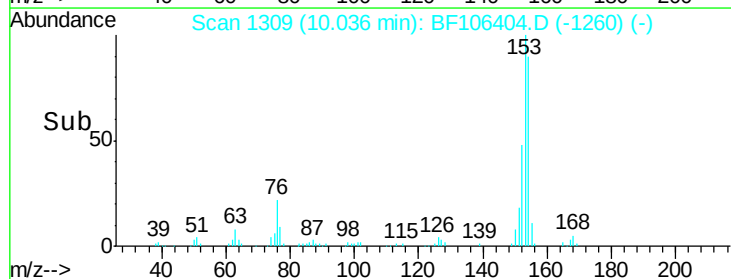
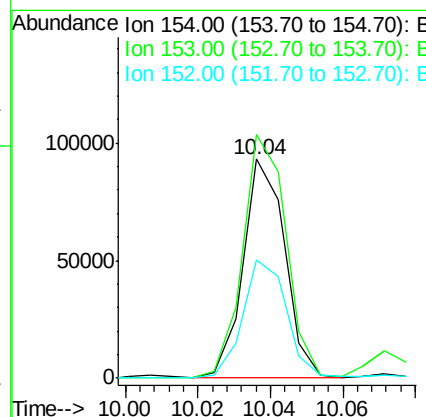
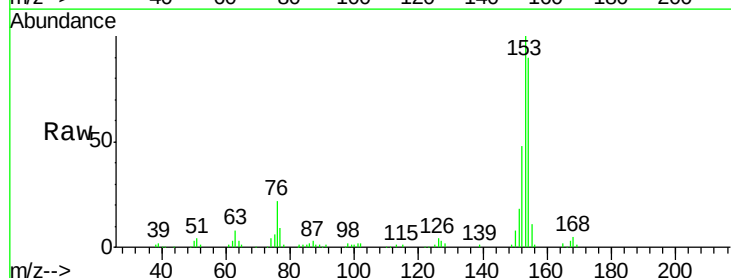
RT: 10.04 min Scan# 1309

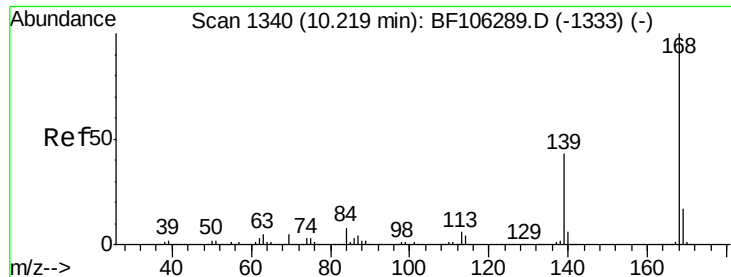
Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Tgt Ion:	154	Resp:	75194
Ion Ratio	Lower	Upper	
154	100		
153	111.3	91.2	136.8
152	53.9	43.8	65.8





#54

Dibenzenofuran

Concen: 8.429 ng

RT: 10.21 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Instrument :

BNA_F

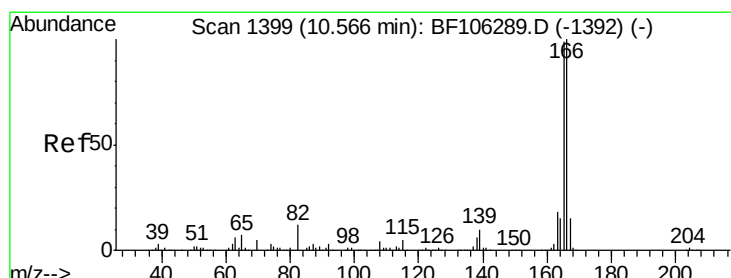
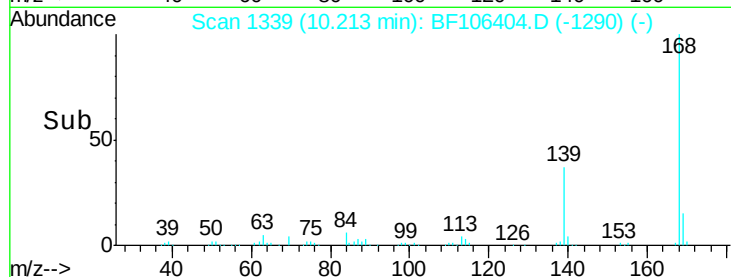
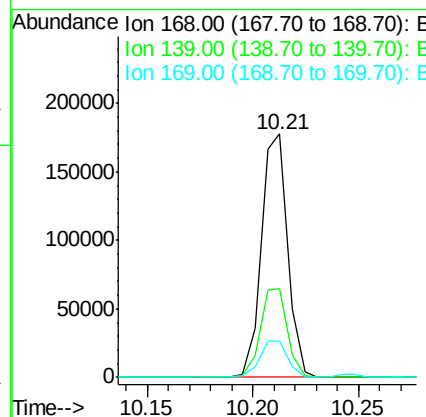
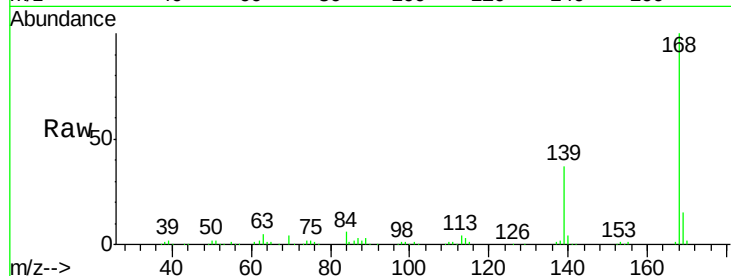
ClientSampleId :

SB02-2 BOT_7DL

Tot Ion:	168	Resp:	154995
Ion Ratio	Lower	Upper	
168	100		
139	36.7	30.1	45.1
169	14.8	10.9	16.3

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#57

Fluorene

Concen: 17.347 ng

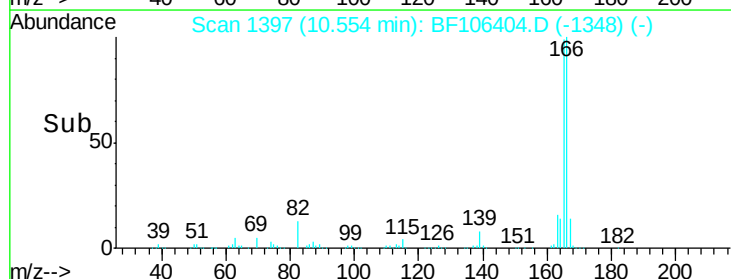
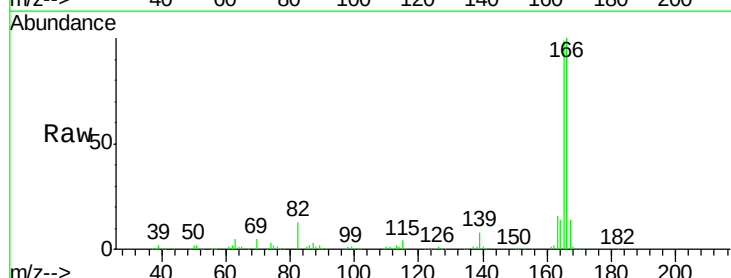
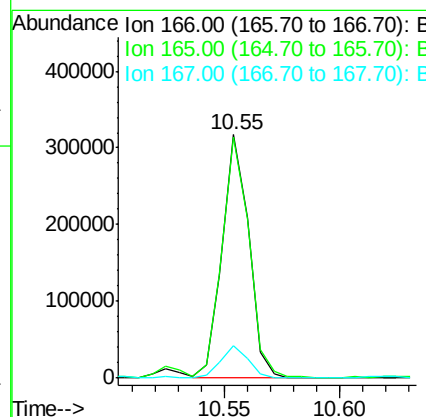
RT: 10.55 min Scan# 1397

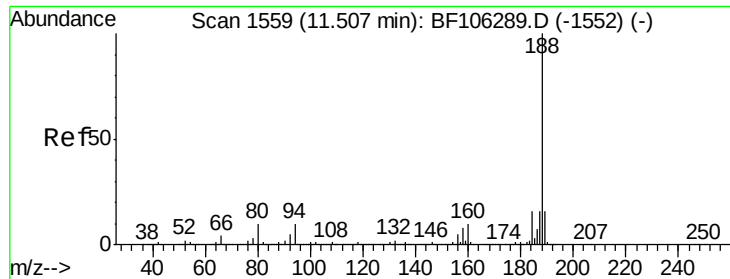
Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Tgt Ion:	166	Resp:	252728
Ion Ratio	Lower	Upper	
166	100		
165	99.3	79.8	119.8
167	13.6	10.6	16.0





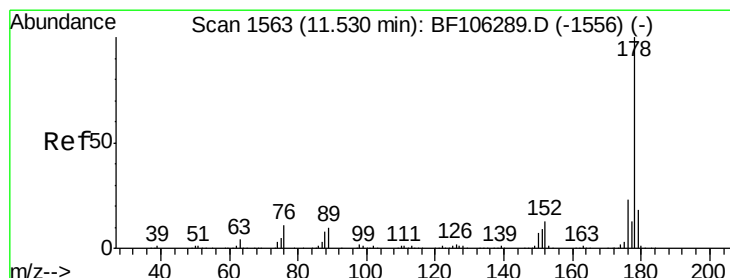
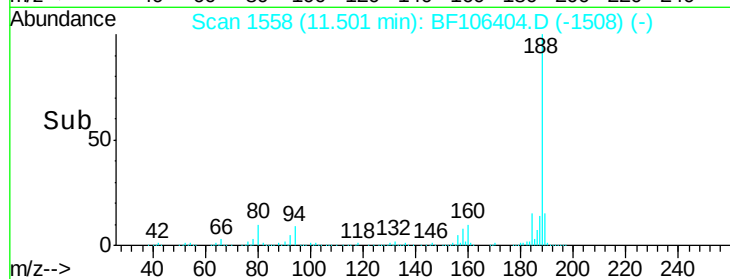
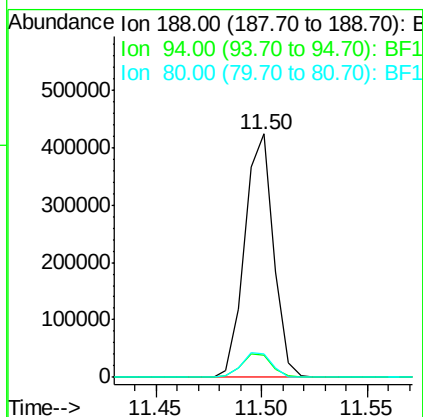
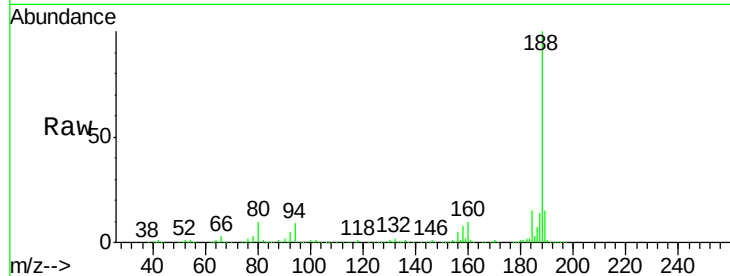
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7DL

Tot Ion	188	Resp	399816
Ion Ratio	Lower	Upper	
188	100		
94	8.9	8.5	12.7
80	9.5	9.2	13.8

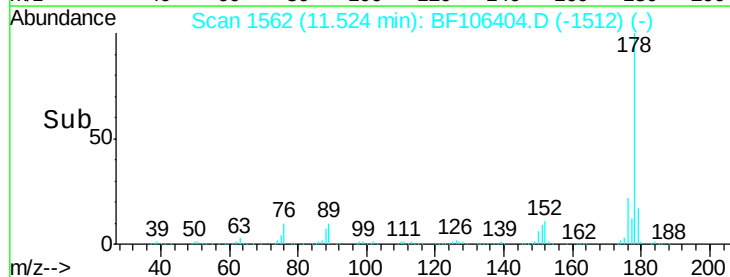
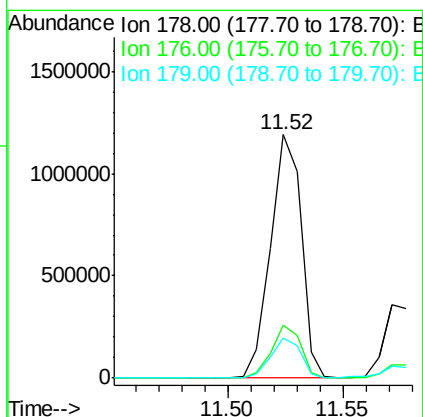
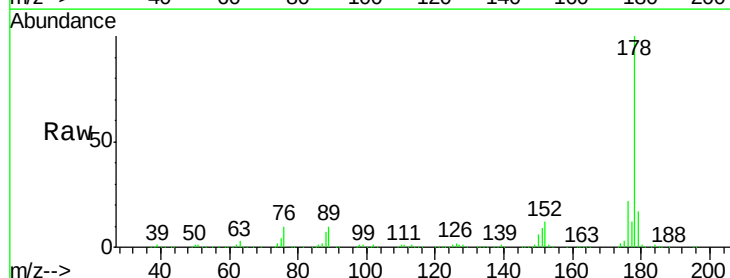
Manual Integrations
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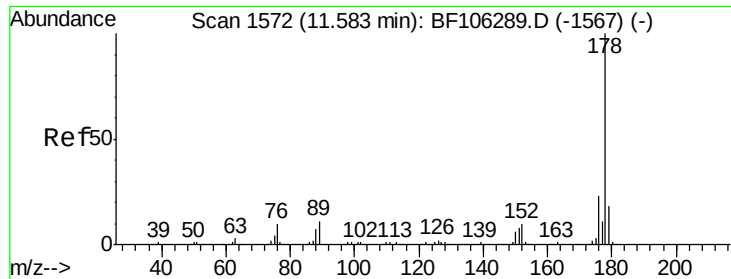
Sohil
6/14/2018 2:47:52 PM



#70
Phenanthrene
Concen: 56.315 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Tgt Ion	178	Resp	1102678
Ion Ratio	Lower	Upper	
178	100		
176	21.6	15.8	23.8
179	16.7	13.0	19.6





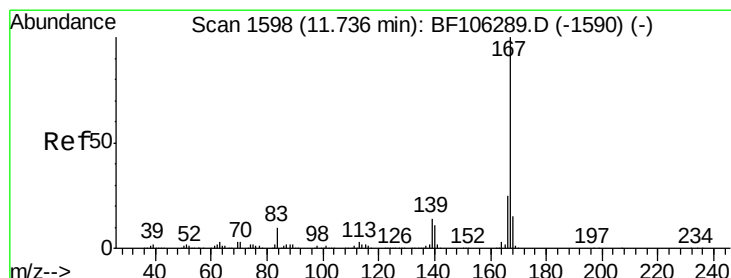
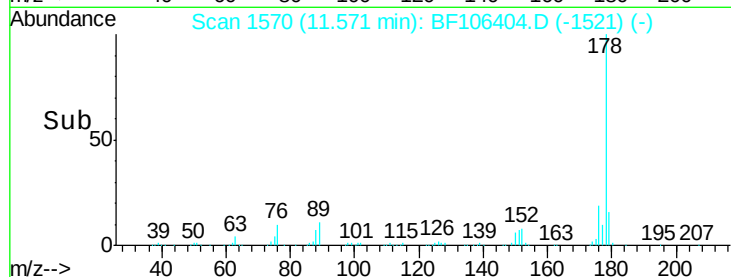
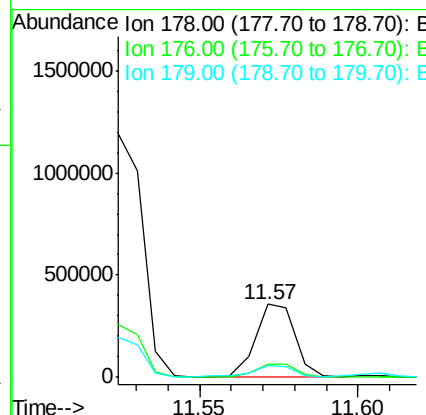
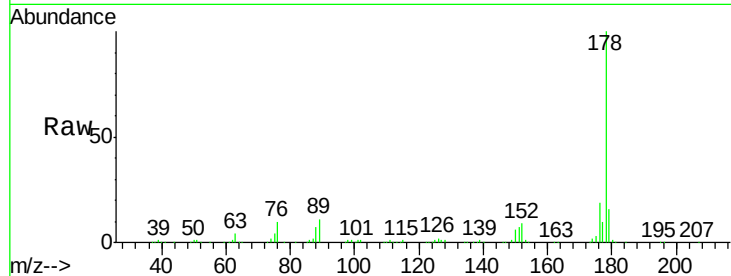
#71
 Anthracene
 Concen: 15.829 ng
 RT: 11.57 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: BF106404.D
 Acq: 13 Jun 2018 21:09

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7DL

Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	18.9	15.4	23.2	
179	15.7	12.6	19.0	

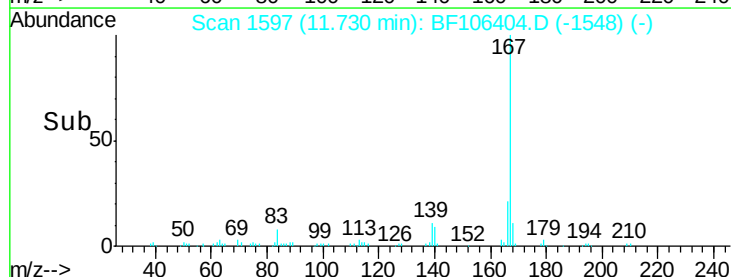
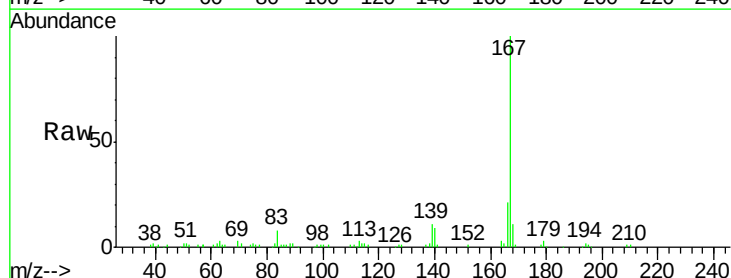
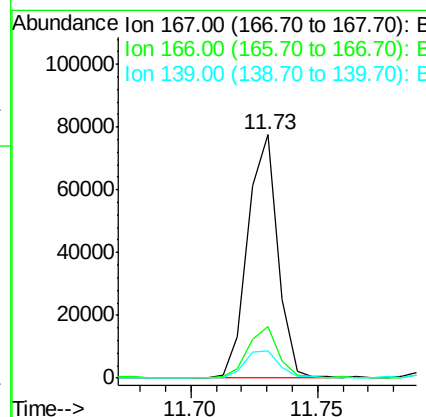
Manual Integrations
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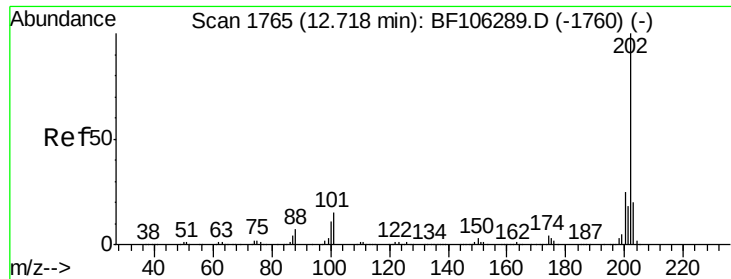
Sohil
 6/14/2018 2:47:52 PM



#72
 Carbazole
 Concen: 3.534 ng
 RT: 11.73 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF106404.D
 Acq: 13 Jun 2018 21:09

Tgt Ion	Ion	Ratio	Lower	Upper
167	100			
166	21.3	17.6	26.4	
139	11.3	10.9	16.3	





#74

Fluoranthene

Concen: 54.800 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Instrument :

BNA_F

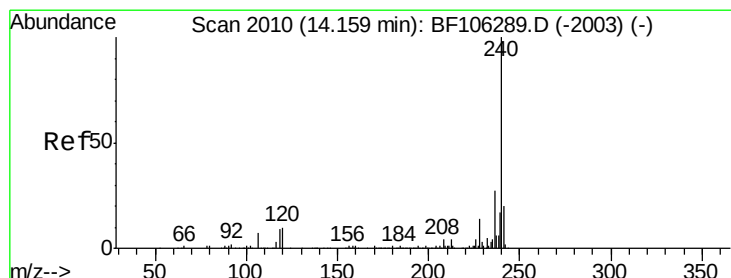
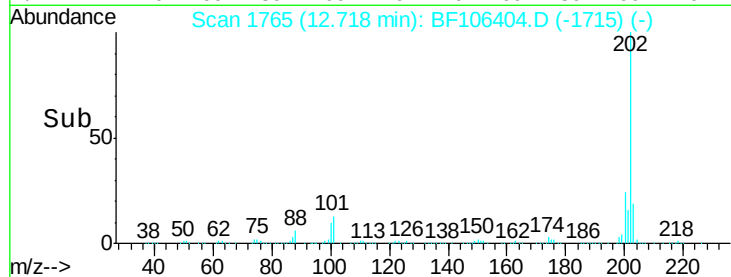
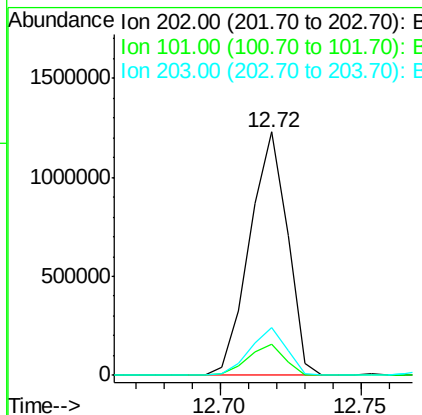
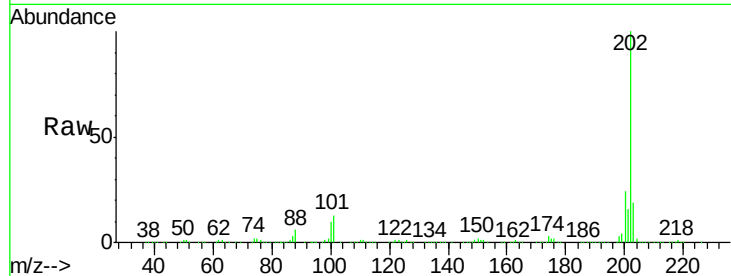
ClientSampleId :

SB02-2 BOT_7DL

Tot Ion:	202	Resp:	1144307
Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	34.1
203	19.4	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

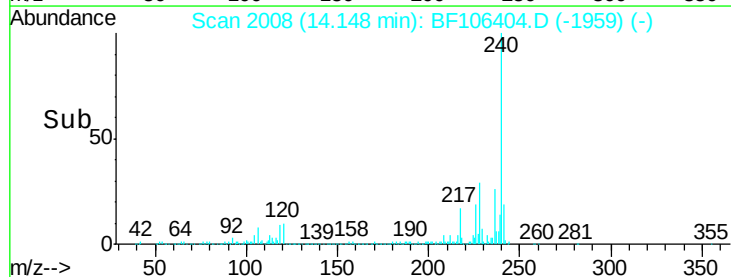
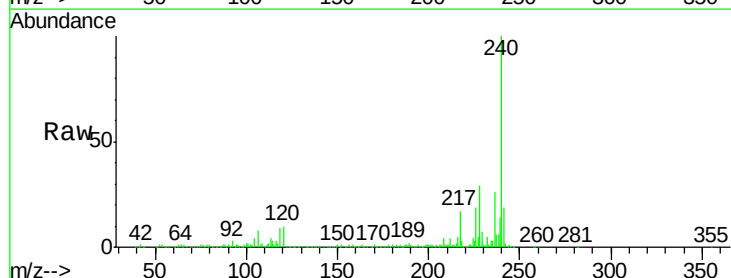
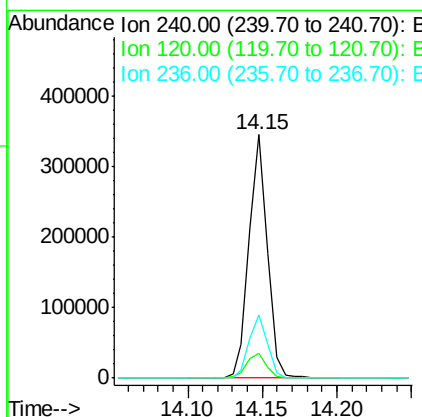
RT: 14.15 min Scan# 2008

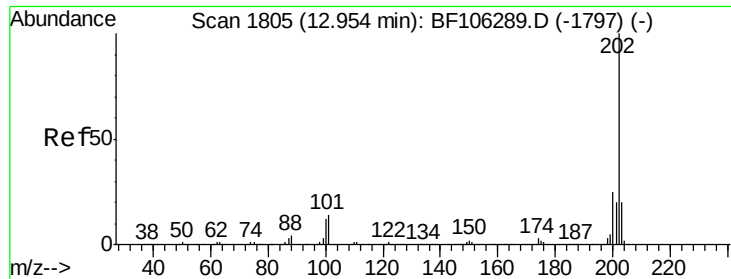
Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Tgt Ion:	240	Resp:	293256
Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.5	14.3
236	26.0	20.7	31.1





#77

Pvrene

Concen: 50.811 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF106404.D

Acq: 13 Jun 2018 21:09

Instrument :

BNA_F

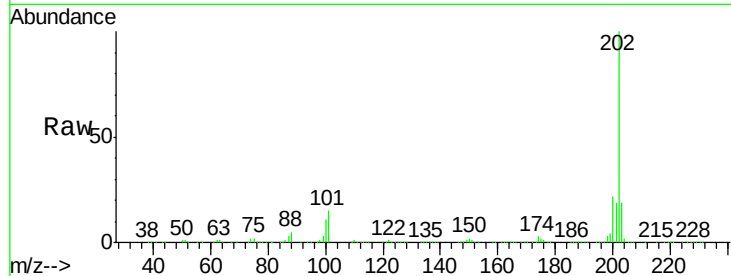
ClientSampleId :

SB02-2 BOT_7DL

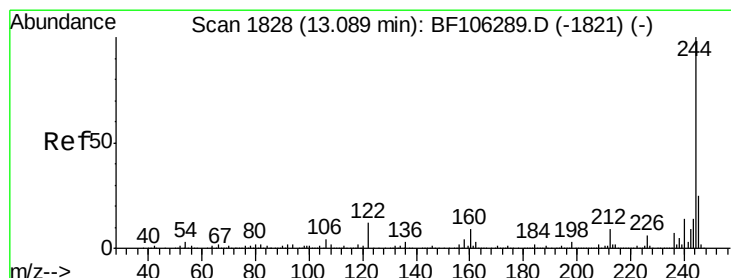
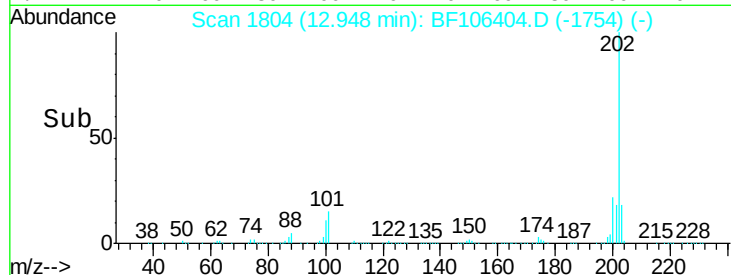
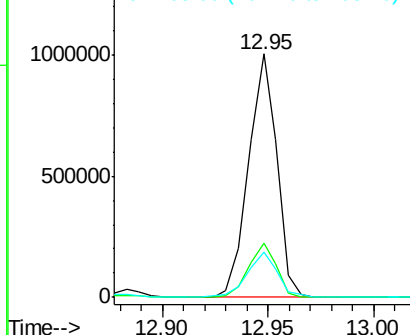
Tot Ion:	202	Resp:	932862
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.4	26.2
203	18.8	14.3	21.5

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



#78

Terphenyl-d14

Concen: 0.495 ng

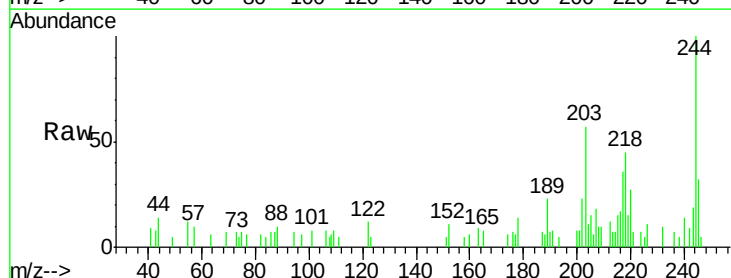
RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

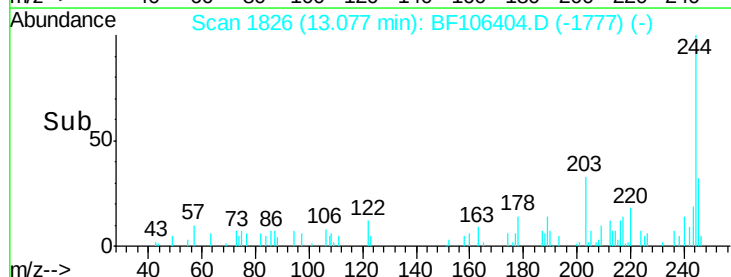
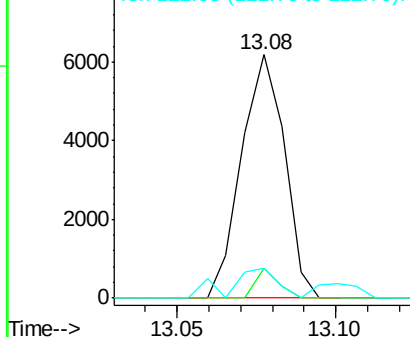
Lab File: BF106404.D

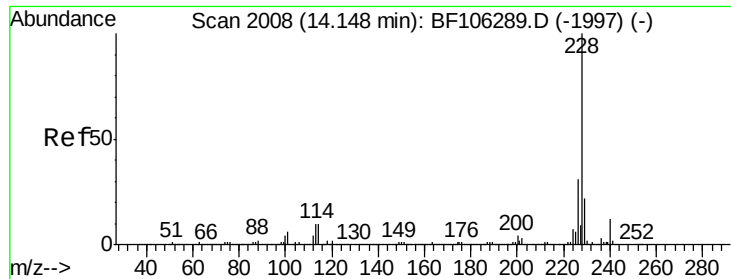
Acq: 13 Jun 2018 21:09

Tgt Ion:	244	Resp:	5841
Ion Ratio	Lower	Upper	
244	100		
212	12.4	5.4	8.0#
122	12.3	11.0	16.4



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





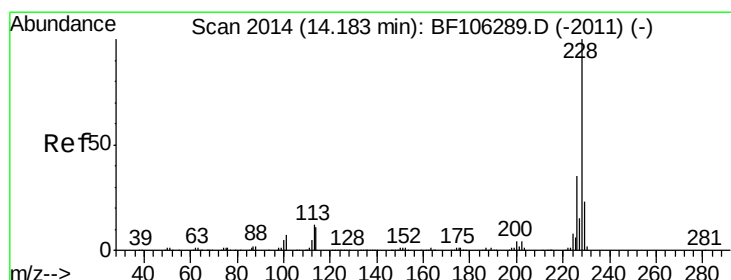
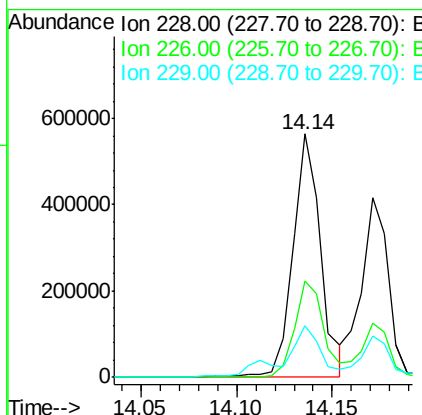
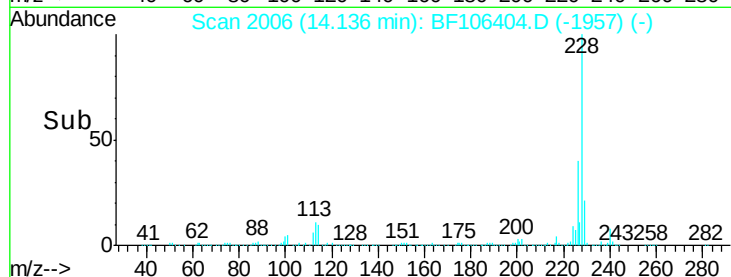
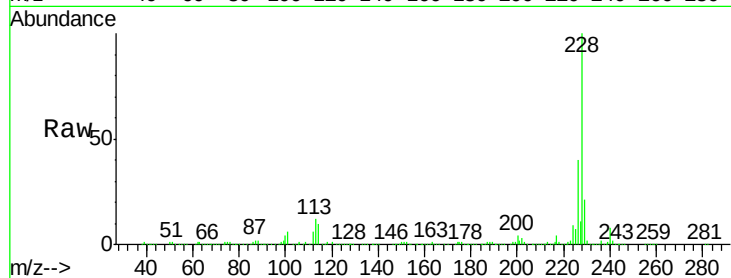
#80
Benzo(a)anthracene
Concen: 32.623 ng m
RT: 14.14 min Scan# 2006
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	39.8	22.6	33.8#
229	21.0	15.8	23.6

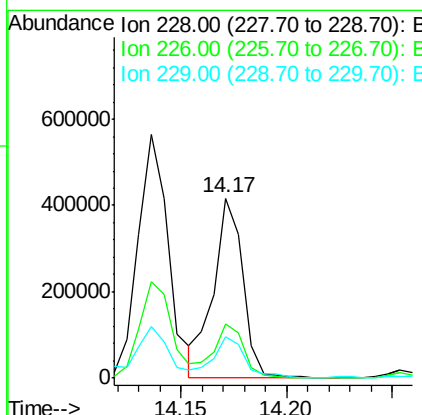
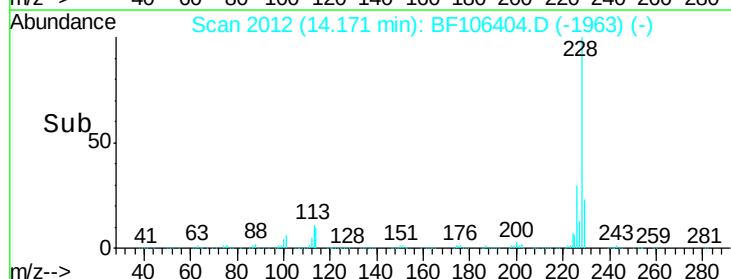
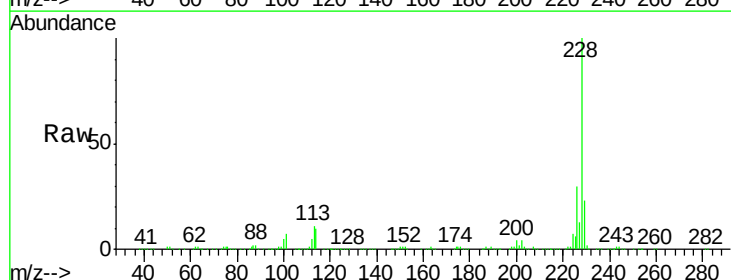
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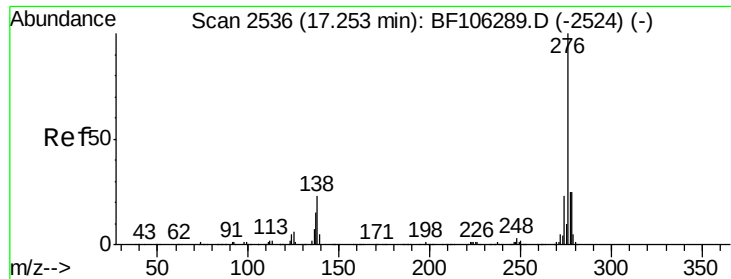
Sohil
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#82
Chrysene
Concen: 25.307 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	23.4	16.2	24.4





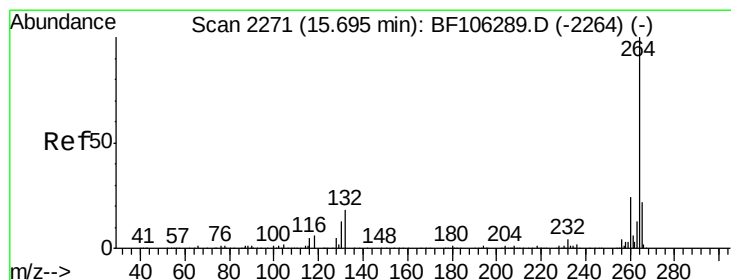
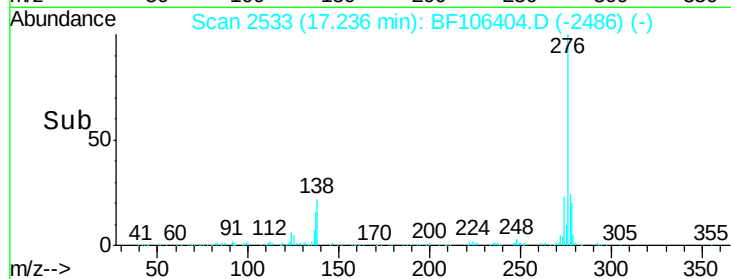
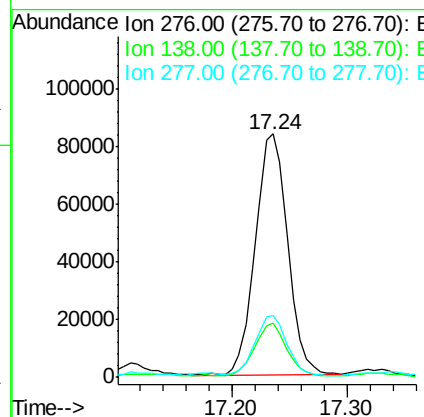
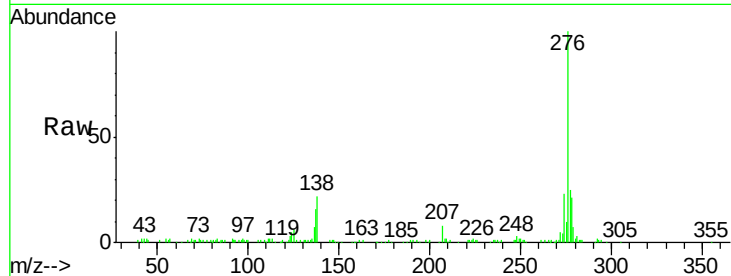
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.746 ng/ml
 RT: 17.24 min Scan# 2533
 Delta R.T. -0.02 min
 Lab File: BF106404.D
 Acq: 13 Jun 2018 21:09

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	6.0	25.0	37.6#
277	5.7	20.1	30.1#

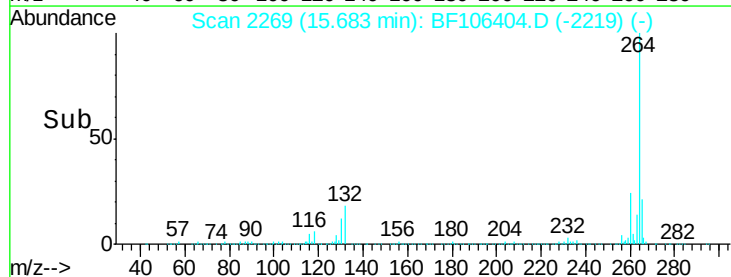
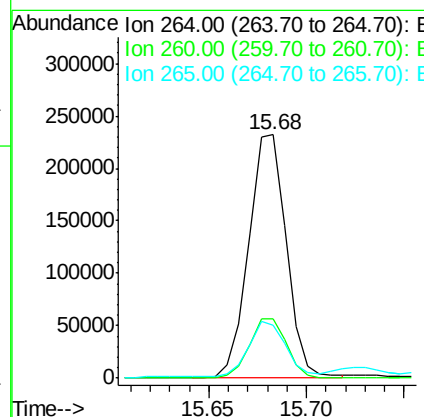
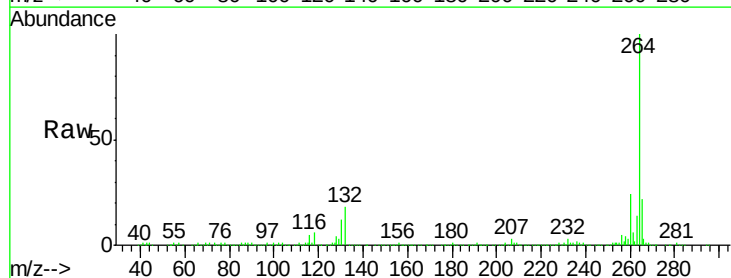
Manual Integrations
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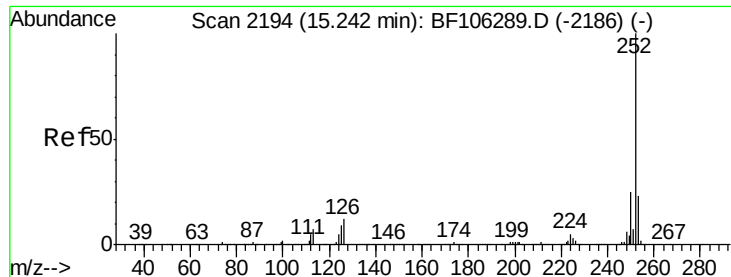
Sohil
 6/14/2018 2:47:52 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.68 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: BF106404.D
 Acq: 13 Jun 2018 21:09

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	21.6	17.5	26.3





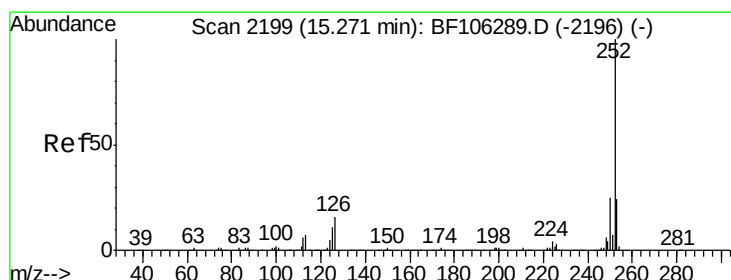
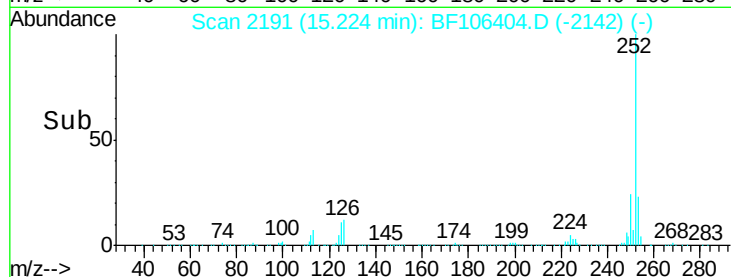
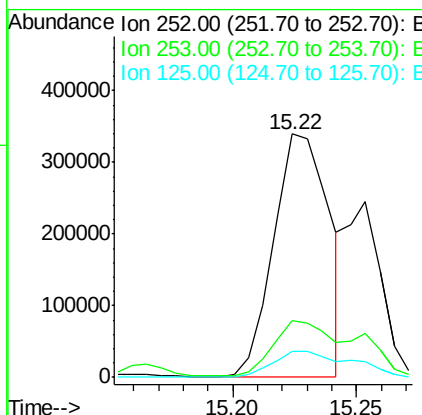
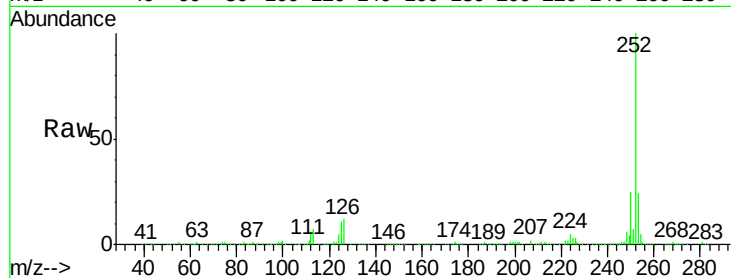
#87
Benzo(b)fluoranthene
Concen: 28.502 ng m
RT: 15.22 min Scan# 2191
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.0	25.6
125	10.9	9.0	13.6

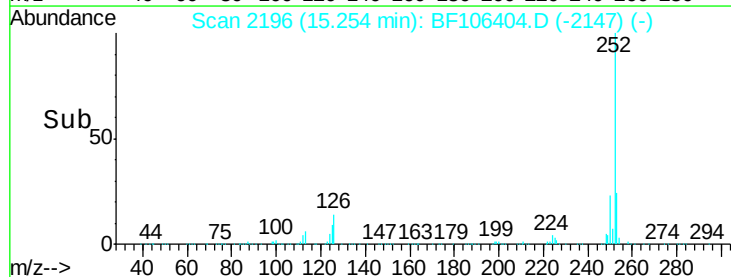
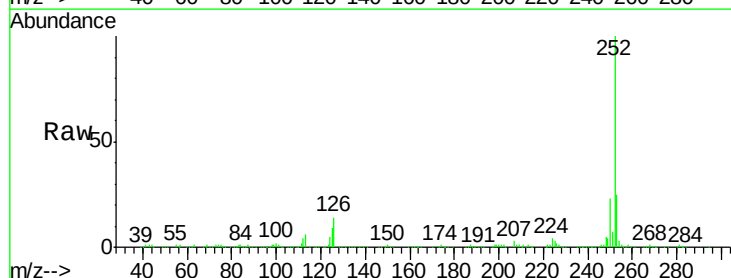
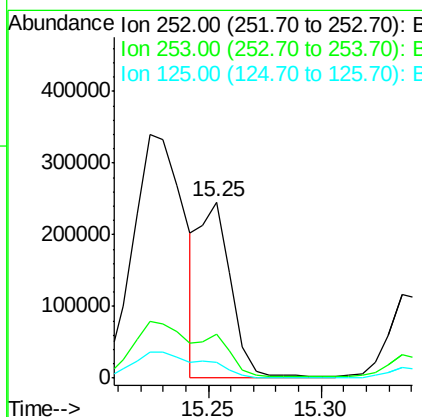
Manual Integrations
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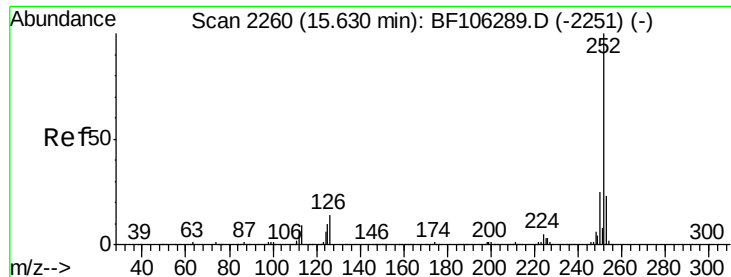
Sohil
6/14/2018 2:47:52 PM



#88
Benzo(k)fluoranthene
Concen: 12.798 ng m
RT: 15.25 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	9.2	10.2	15.2#





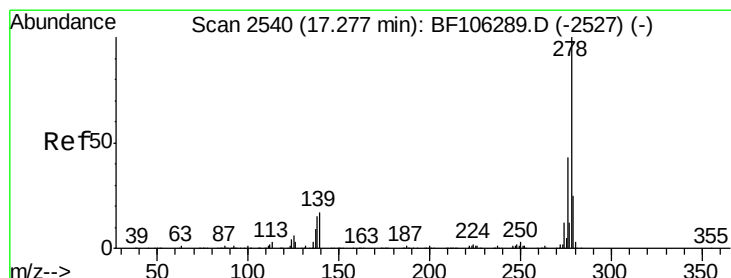
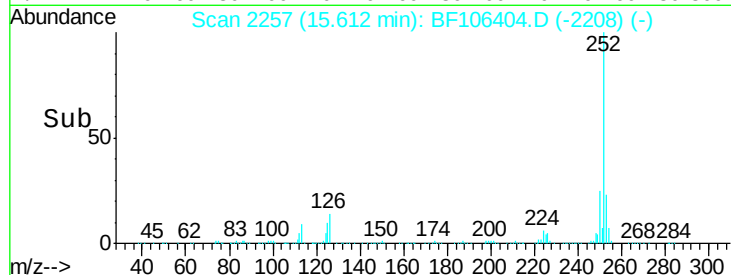
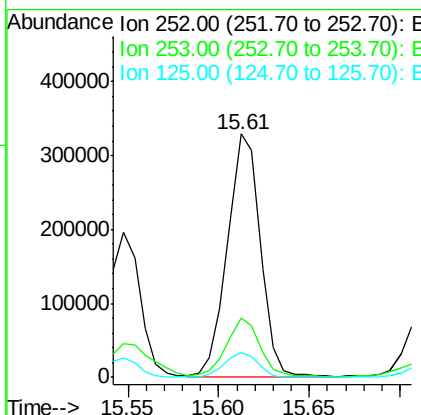
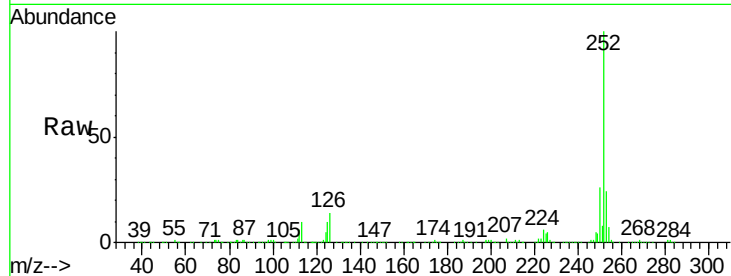
#89
Benzo(a)pyrene
Concen: 24.702 ng
RT: 15.61 min Scan# 2257
Delta R.T. -0.01 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Instrument :
BNA_F
ClientSampleId :
SB02-2 BOT_7DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.1	25.7
125	10.4	9.8	14.6

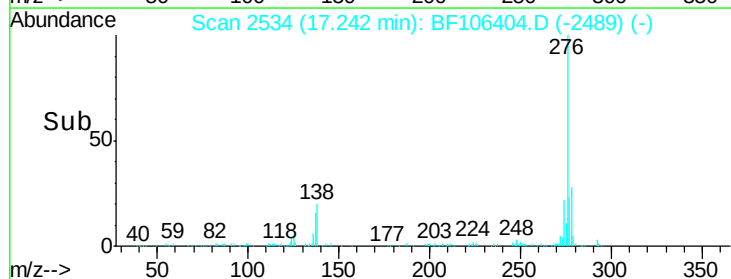
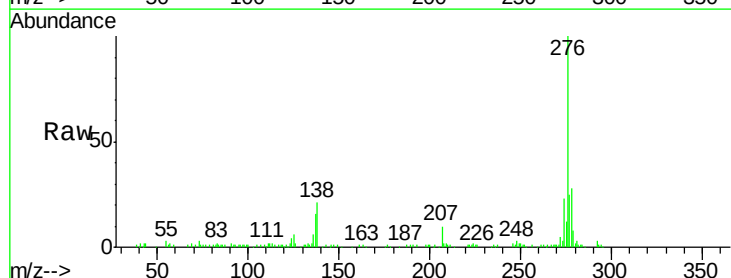
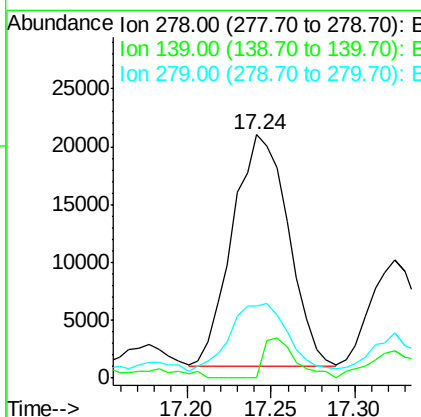
Manual Integrations
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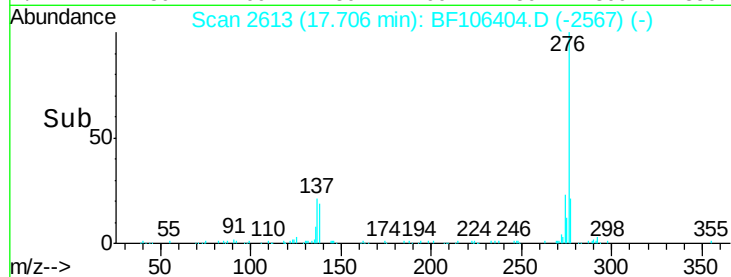
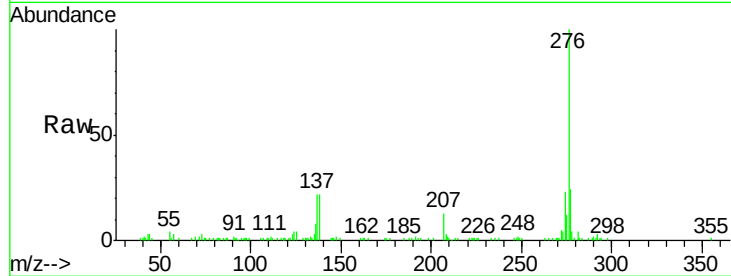
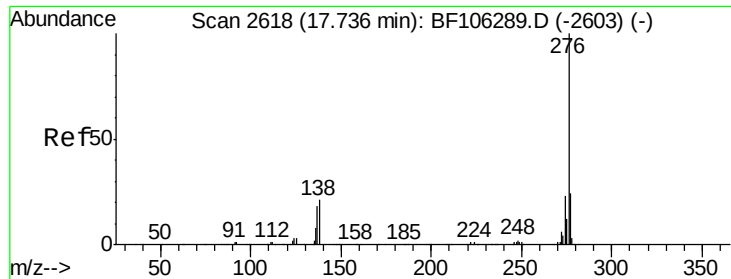
Sohil
6/14/2018 2:47:52 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.324 ng m
RT: 17.24 min Scan# 2534
Delta R.T. -0.04 min
Lab File: BF106404.D
Acq: 13 Jun 2018 21:09

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.8	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 9.474 ng
 RT: 17.71 min Scan# 2613
 Delta R.T. -0.03 min
 Lab File: BF106404.D
 Acq: 13 Jun 2018 21:09

Instrument :
 BNA_F
 ClientSampleId :
 SB02-2 BOT_7DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.6	17.9	26.9
138	21.7	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 6/14/2018 2:47:52 PM

