

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF021918\
 Data File : BF103100.D
 Acq On : 20 Feb 2018 00:02
 Operator : SJ/JU
 Sample : J1600-04 10X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB68 BOT_10

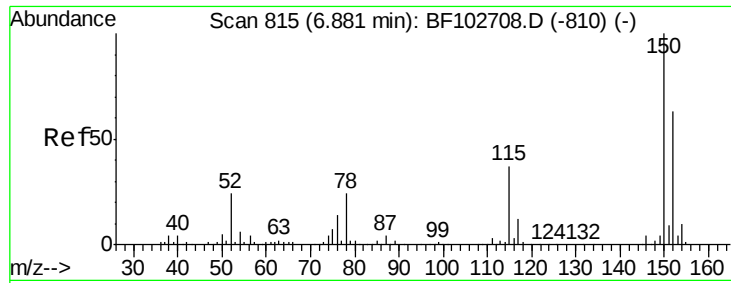
Manual Integrations
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 2/20/2018 10:20:58 AM

Quant Time: Feb 20 02:10:31 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 16 14:34:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	154034	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	633915	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	275762	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	414624	20.00	ng	0.00
75) Chrysene-d12	14.05	240	249237	20.00	ng	0.00
86) Perylene-d12	15.54	264	273738	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	121790	12.01	ng	0.00
7) Phenol-d6	6.50	99	151921	12.44	ng	0.00
23) Nitrobenzene-d5	7.43	82	86707	9.49	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	21457	9.67	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	108208	6.51	ng	-0.01
78) Terphenyl-d14	12.99	244	66247	6.29	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.19	128	2527584	81.609	ng	98
37) 2-Methylnaphthalene	8.87	142	656715	32.386	ng	99
45) 1,1'-Biphenyl	9.33	154	274083	11.800	ng	96
48) Acenaphthylene	9.77	152	434058	15.283	ng	99
51) Acenaphthene	9.95	154	992305	58.424	ng	100
54) Dibenzofuran	10.12	168	1030517	43.053	ng	97
57) Fluorene	10.47	166	1130869	64.936	ng	99
70) Phenanthrene	11.44	178	2808575	121.626	ng	99
71) Anthracene	11.49	178	762180	32.452	ng	100
72) Carbazole	11.63	167	497413	21.618	ng	99
74) Fluoranthene	12.63	202	1935167	83.293	ng	98
77) Pyrene	12.86	202	1566591	80.157	ng	100
80) Benzo(a)anthracene	14.04	228	859040m	54.804	ng	
82) Chrysene	14.08	228	602487	38.130	ng	98
85) Indeno(1,2,3-cd)pyrene	17.05	276	286337	21.850	ng	94
87) Benzo(b)fluoranthene	15.11	252	909284m	51.235	ng	
88) Benzo(k)fluoranthene	15.13	252	269443m	15.889	ng	
89) Benzo(a)pyrene	15.48	252	653904	40.933	ng	# 95
90) Dibenzo(a,h)anthracene	17.05	278	80302m	6.193	ng	
91) Benzo(g,h,i)perylene	17.51	276	241692	19.044	ng	98

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



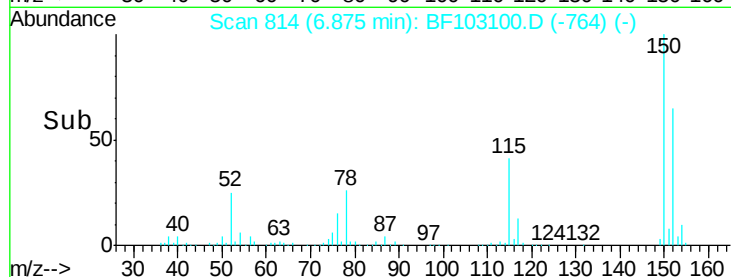
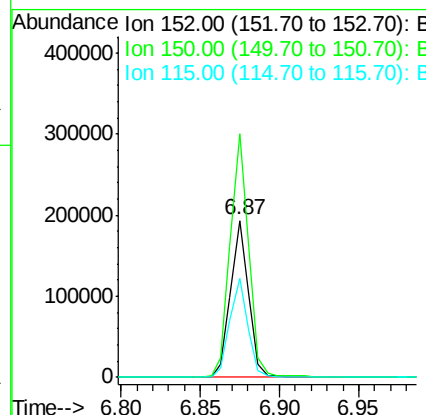
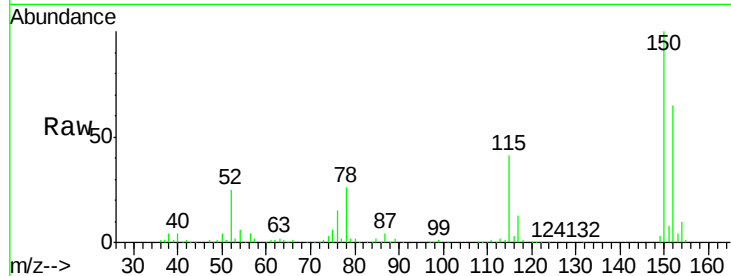
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 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.87 min Scan# 814
 Delta R.T. -0.01 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB68_BOT_10

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.9	124.6	186.8
115	62.8	50.1	75.1

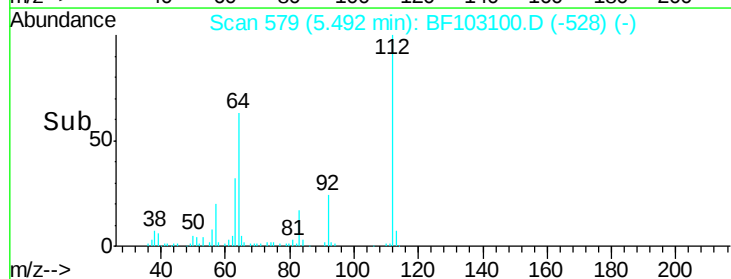
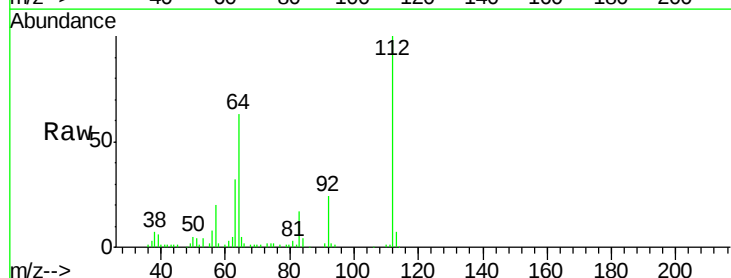
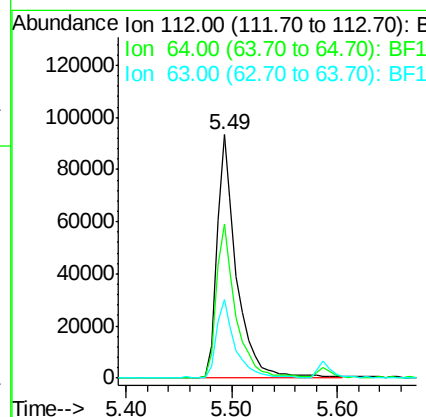
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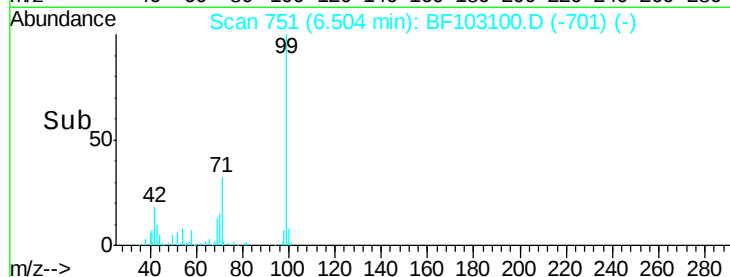
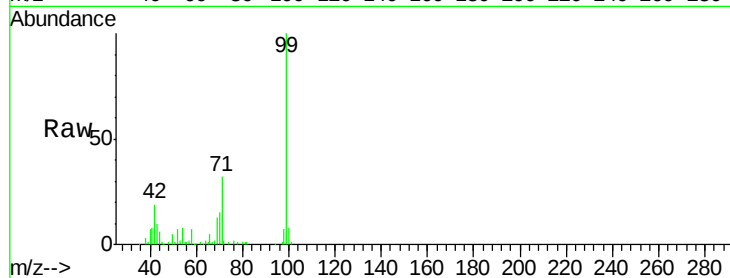
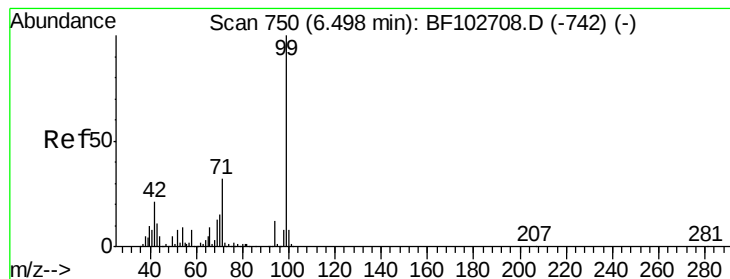
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#5
 2-Fluorophenol
 Concen: 12.008 ng
 RT: 5.49 min Scan# 579
 Delta R.T. -0.00 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.0	47.9	71.9
63	32.2	23.7	35.5





#7

Phenol-d6

Concen: 12.440 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		151921		
42	19.2	14.5	21.7		
71	32.1	25.4	38.0		

Instrument :

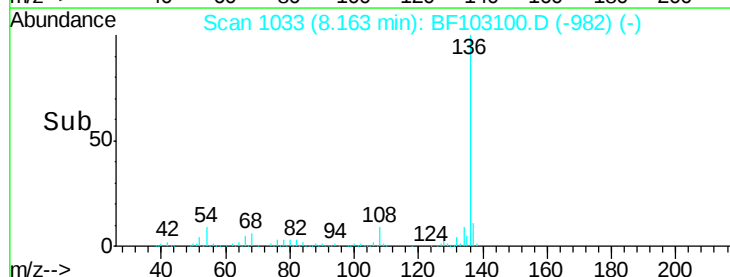
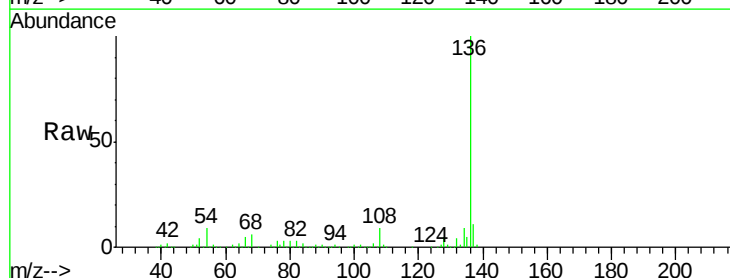
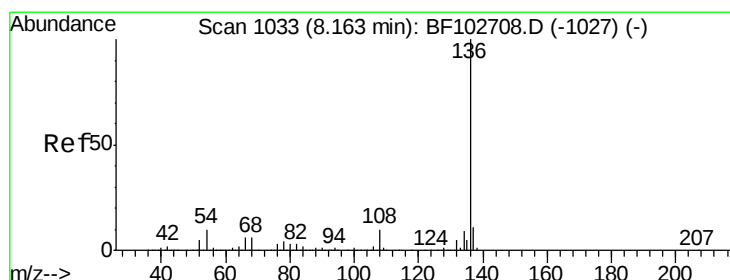
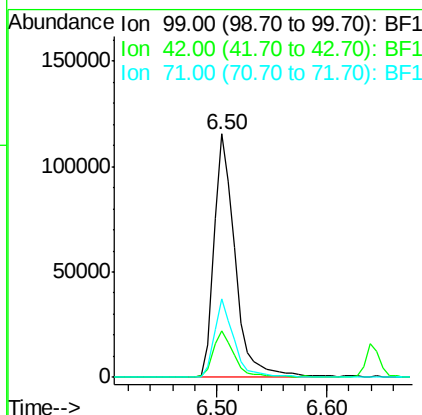
BNA_F

ClientSampleId :

A2_SB68_BOT_10

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#21

Naphthalene-d8

Concen: 20.000 ng

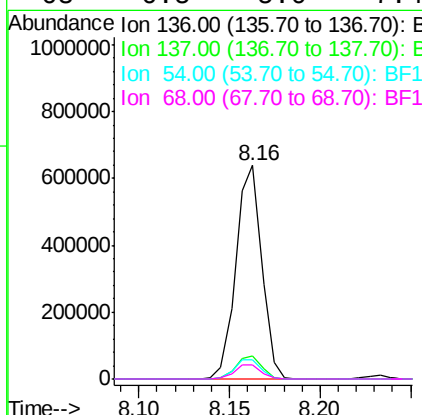
RT: 8.16 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		633915		
137	11.1	8.9	13.3		
54	9.2	6.6	9.8		
68	6.5	5.0	7.4		





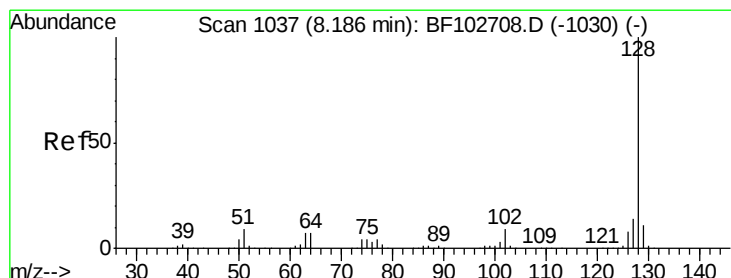
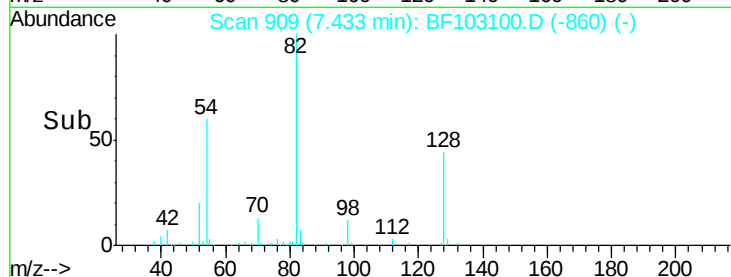
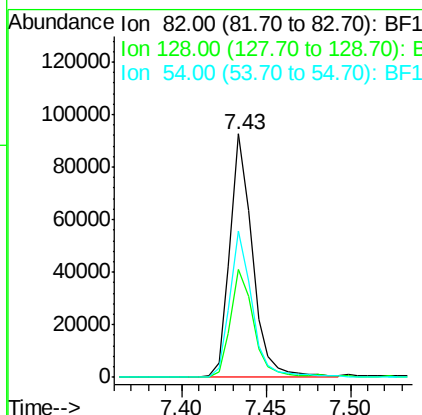
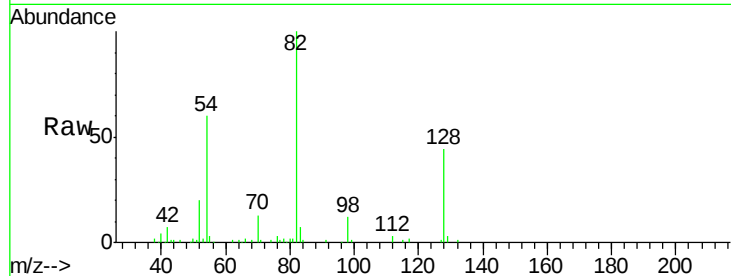
#23
 Nitrobenzene-d5
 Concen: 9.489 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB68_BOT_10

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.2	36.1	54.1
54	60.3	41.4	62.2

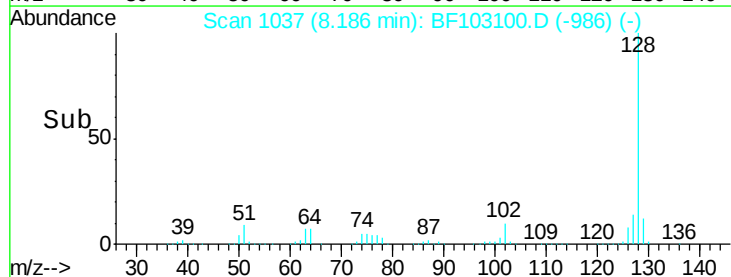
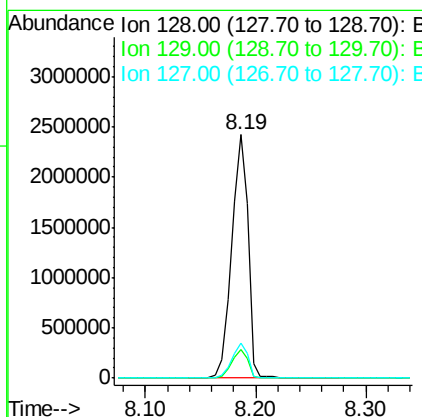
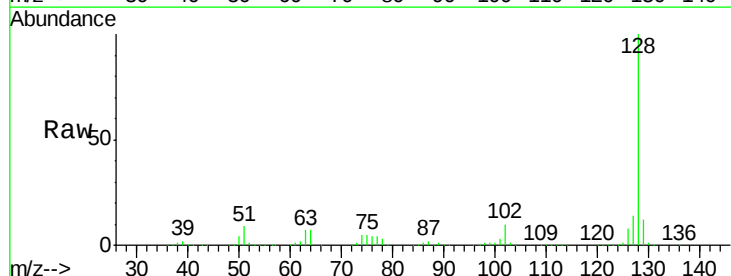
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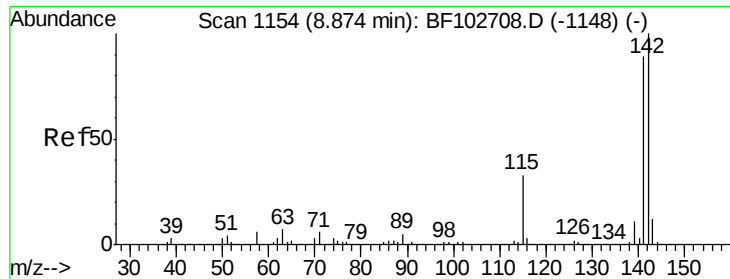
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#31
 Naphthalene
 Concen: 81.609 ng
 RT: 8.19 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	14.3	10.9	16.3





#37

2-Methylnaphthalene

Concen: 32.386 ng

RT: 8.87 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Instrument :

BNA_F

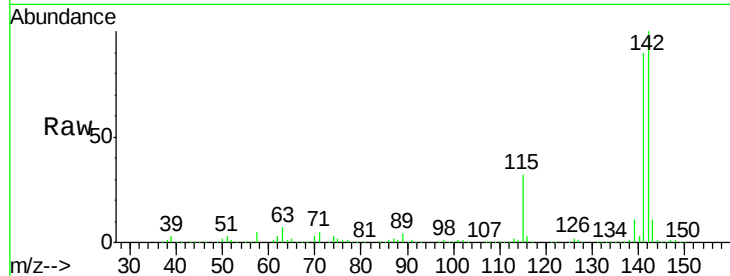
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A2_SB68_BOT_10

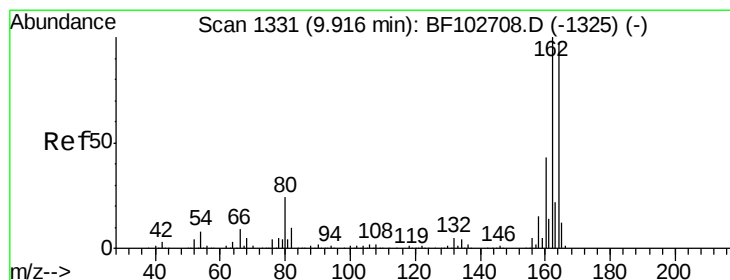
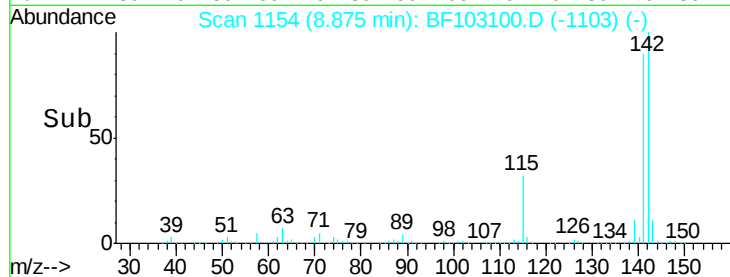
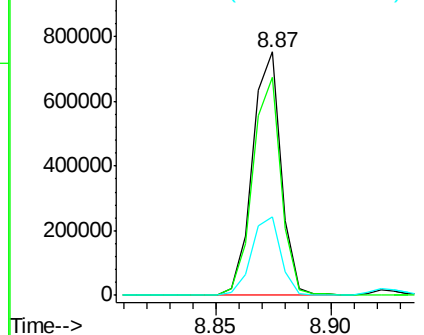
Tgt Ion:	142	Resp:	656715
Ion Ratio	Lower	Upper	
142	100		
141	89.5	70.8	106.2
115	32.1	26.1	39.1

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



#38

Acenaphthene-d10

Concen: 20.000 ng

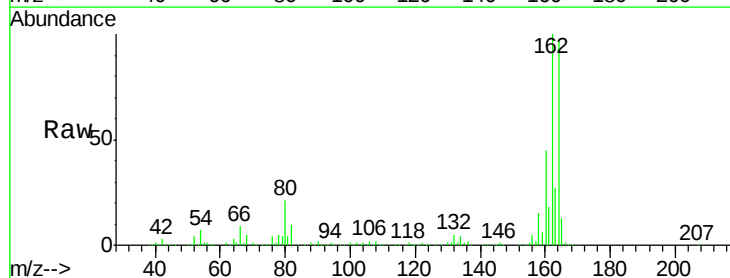
RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

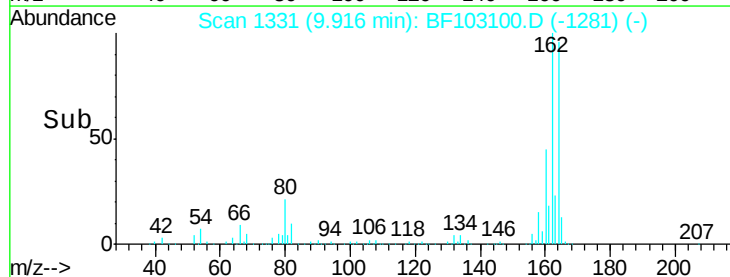
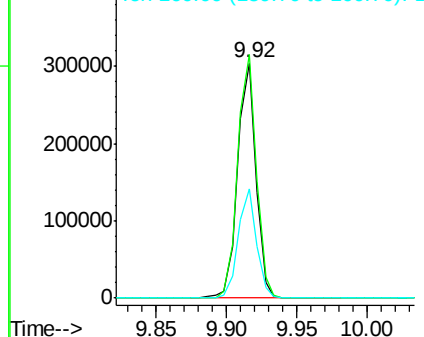
Lab File: BF103100.D

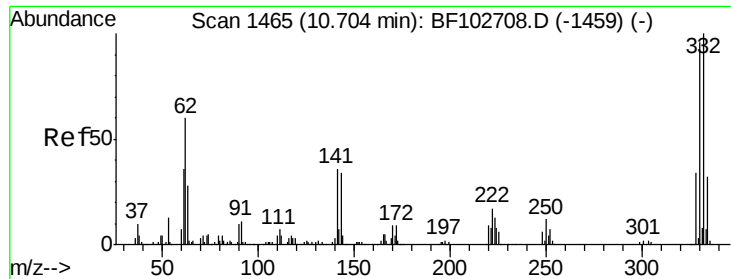
Acq: 20 Feb 2018 00:02

Tgt Ion:	164	Resp:	275762
Ion Ratio	Lower	Upper	
164	100		
162	103.6	86.1	129.1
160	46.5	38.3	57.5



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





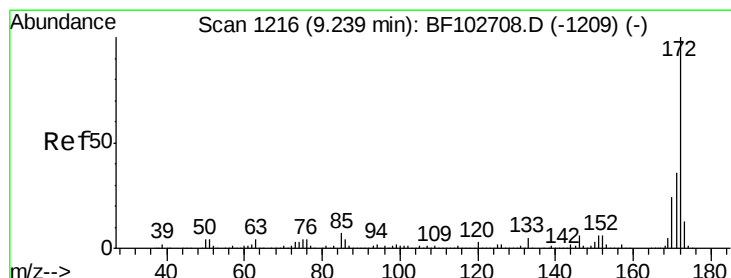
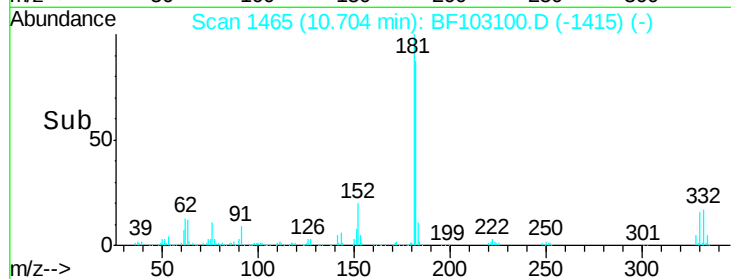
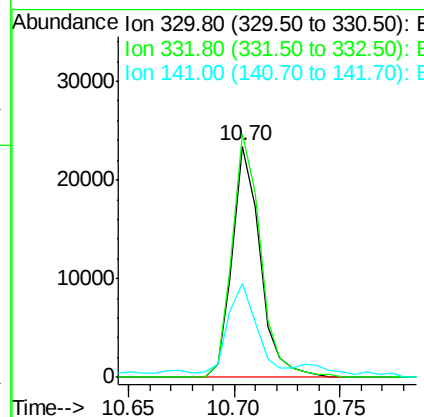
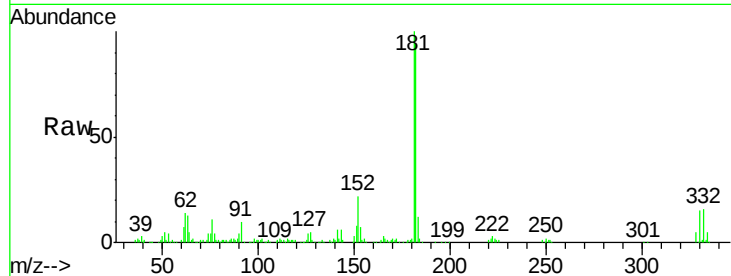
#41
 2,4,6-Tribromophenol
 Concen: 9.667 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB68_BOT_10

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	21457		
332	107.2	77.0	115.6	
141	40.0	29.9	44.9	

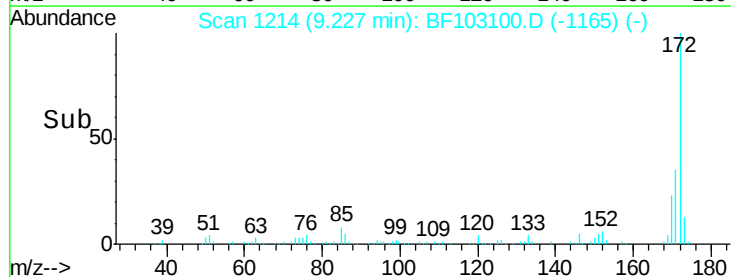
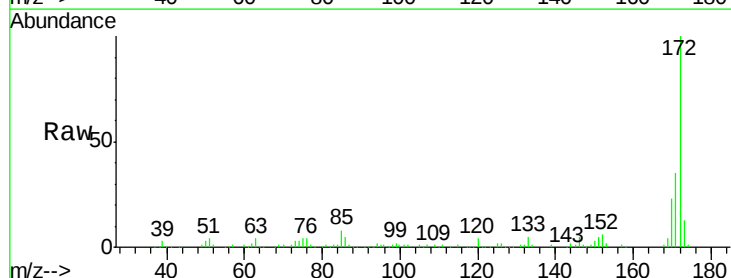
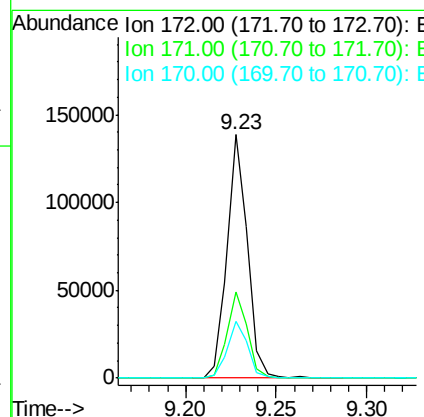
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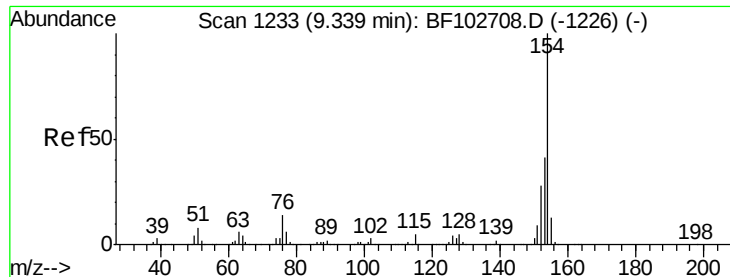
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#44
 2-Fluorobiphenyl
 Concen: 6.511 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.01 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	108208		
171	35.5	29.7	44.5	
170	23.2	19.6	29.4	





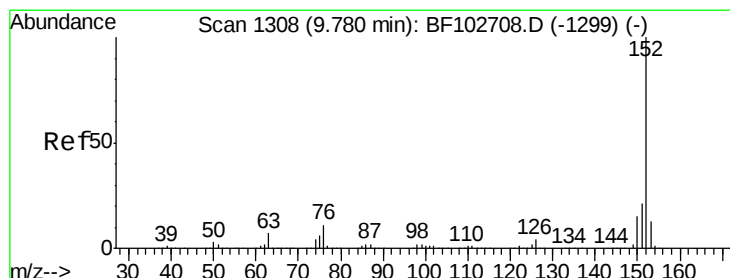
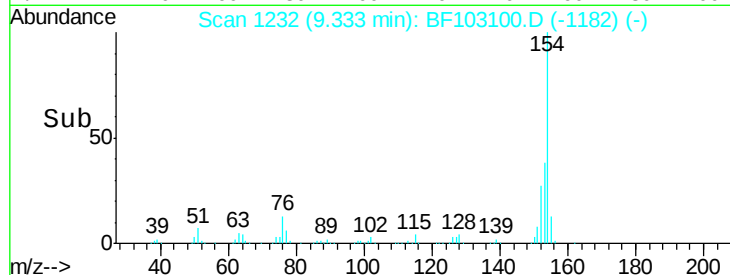
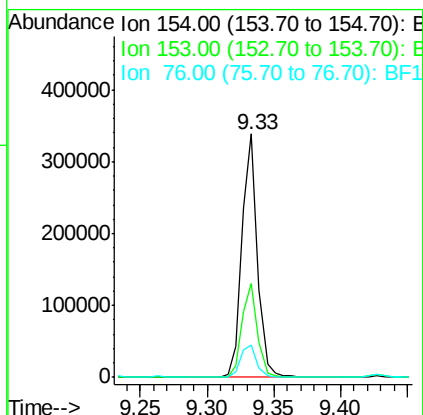
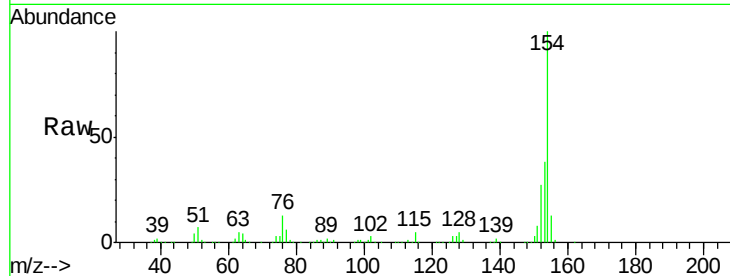
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 1,1'-Biphenyl
 Concen: 11.800 ng
 RT: 9.33 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB68_BOT_10

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.5	21.3	61.3
76	13.4	0.0	34.0

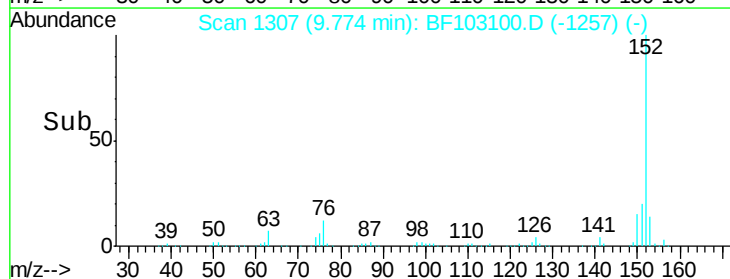
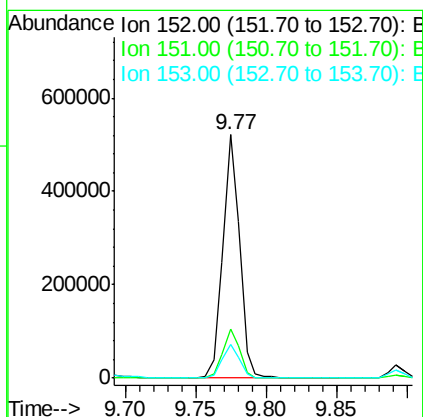
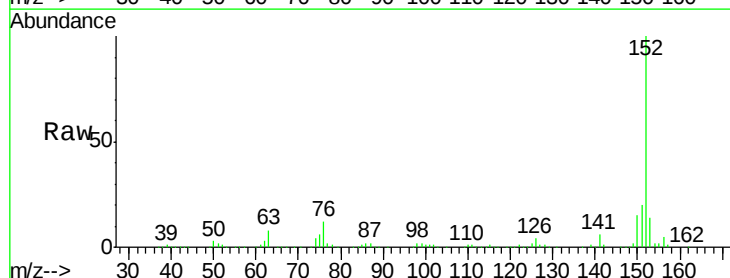
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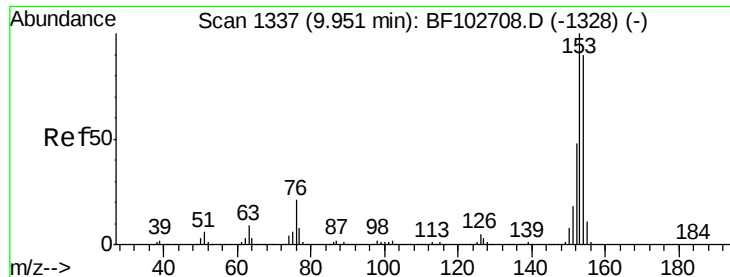
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#48
 Acenaphthylene
 Concen: 15.283 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.01 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5
153	14.0	10.7	16.1





#51

Acenaphthene

Concen: 58.424 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Instrument :

BNA_F

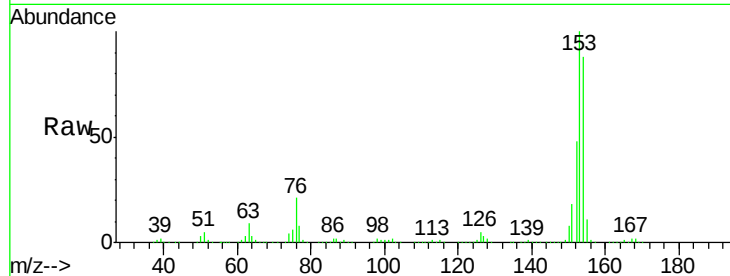
ClientSampleId :

A2_SB68_BOT_10

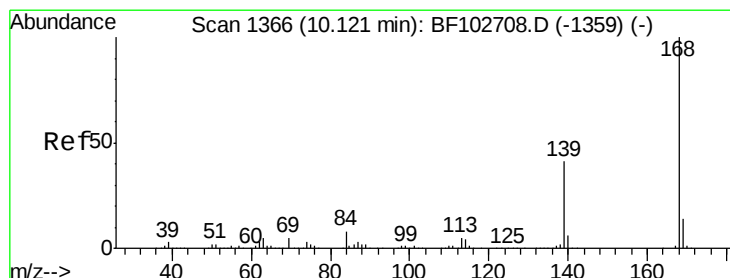
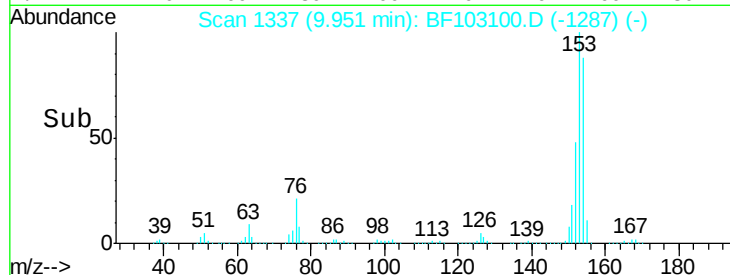
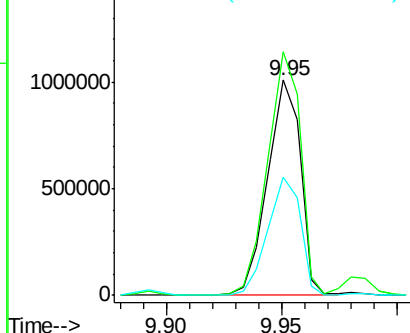
Tgt Ion:	154	Resp:	992305
Ion Ratio	Lower	Upper	
154	100		
153	113.3	91.2	136.8
152	54.8	43.8	65.8

Manual Integrations
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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: 43.053 ng

RT: 10.12 min Scan# 1366

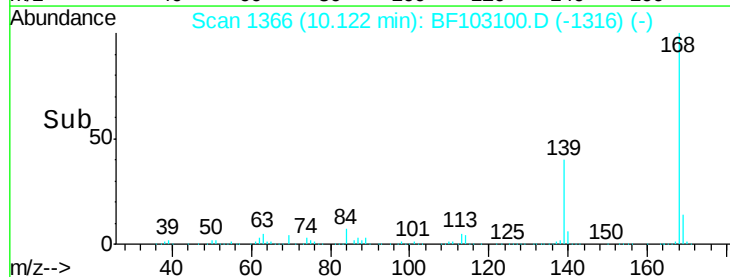
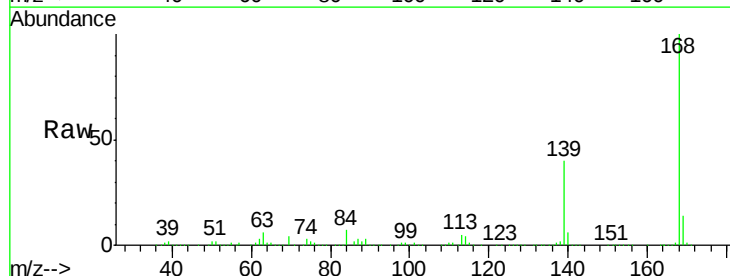
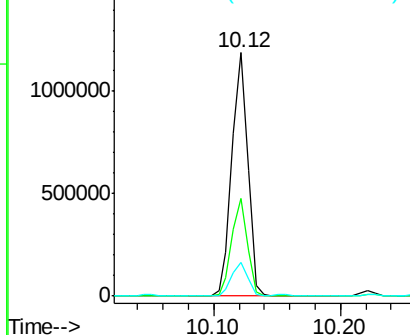
Delta R.T. -0.01 min

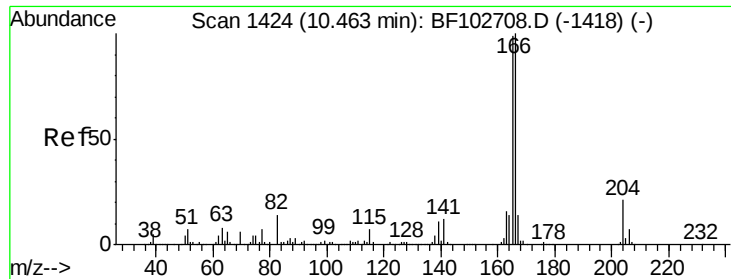
Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Tgt Ion:	168	Resp:	1030517
Ion Ratio	Lower	Upper	
168	100		
139	39.9	30.1	45.1
169	14.0	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





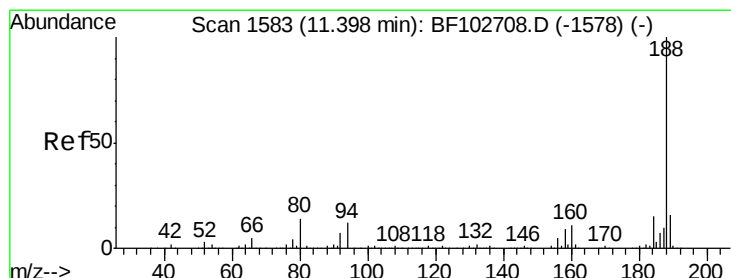
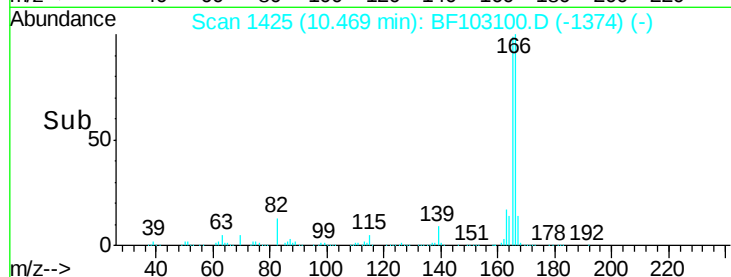
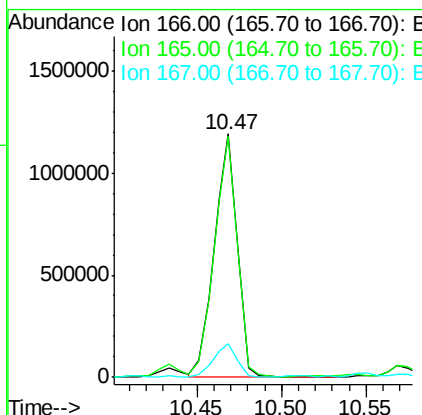
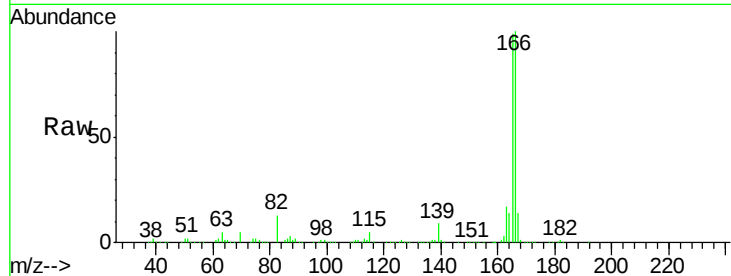
#57
Fluorene
 Concen: 64.936 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.00 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB68_BOT_10

Tgt Ion:166 Resp: 1130869
 Ion Ratio Lower Upper
 166 100
 165 98.8 79.8 119.8
 167 13.9 10.6 16.0

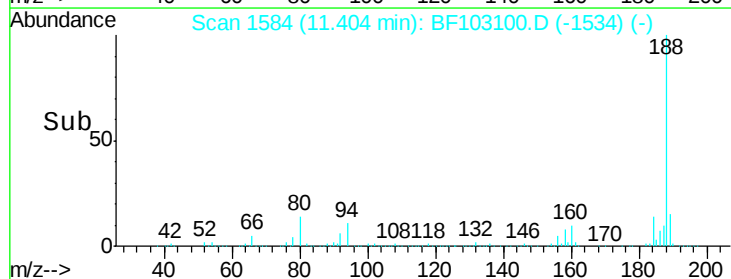
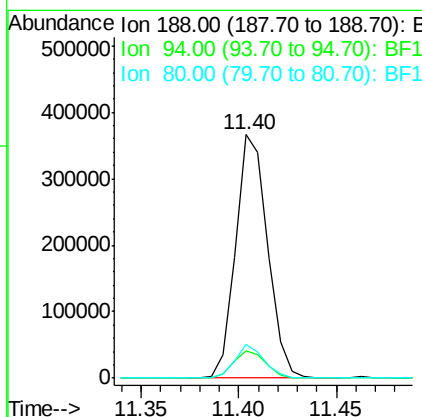
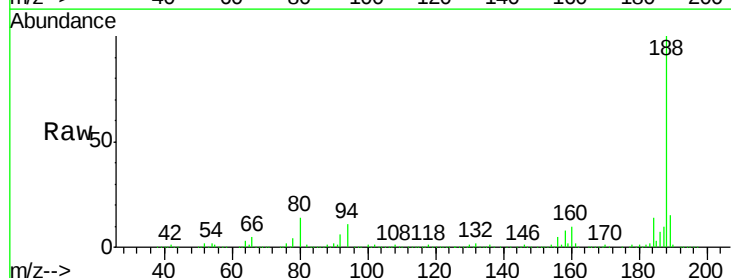
Manual Integrations
 APPROVED

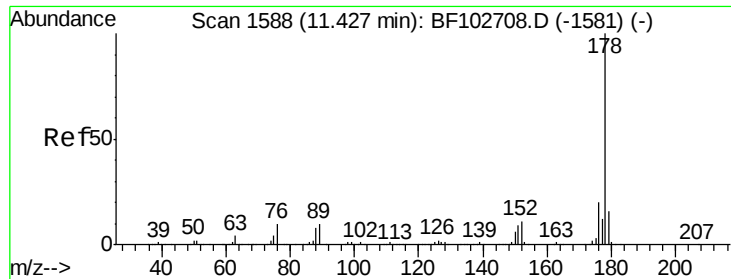
Sohil
 2/20/2018 10:20:58 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF103100.D
 Acq: 20 Feb 2018 00:02

Tgt Ion:188 Resp: 414624
 Ion Ratio Lower Upper
 188 100
 94 11.5 8.5 12.7
 80 13.6 9.2 13.8





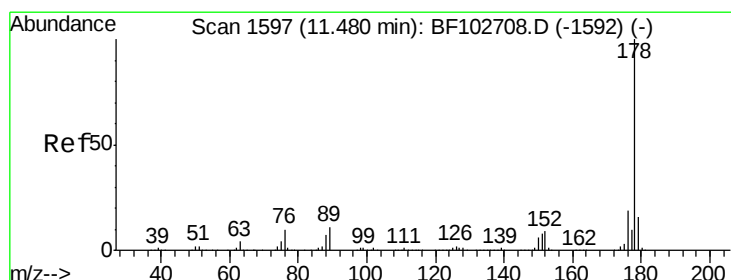
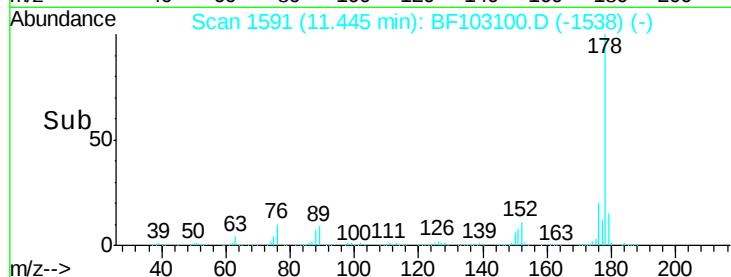
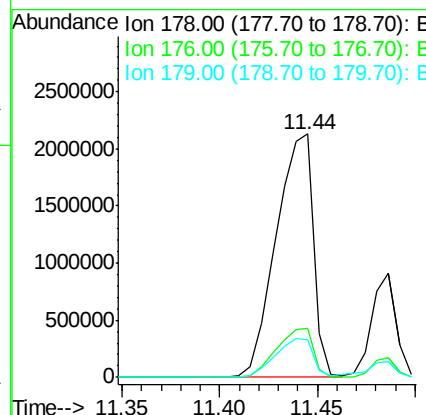
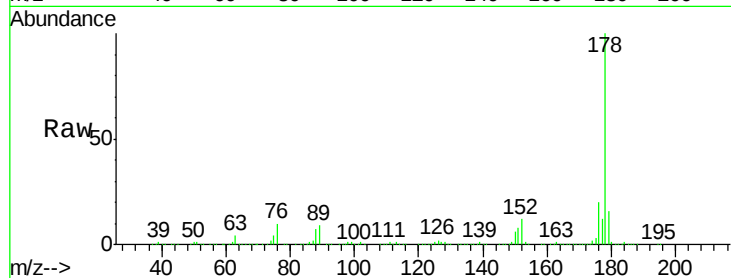
#70
Phenanthrene
Concen: 121.626 ng
RT: 11.44 min Scan# 1591
Delta R.T. 0.01 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Instrument :
BNA_F
ClientSampleId :
A2_SB68_BOT_10

Tgt Ion:178 Resp: 2808575
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.8
179 15.6 13.0 19.6

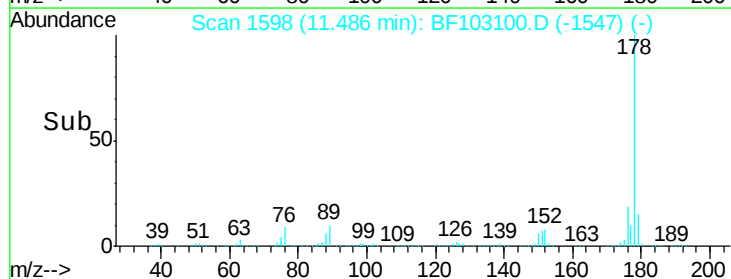
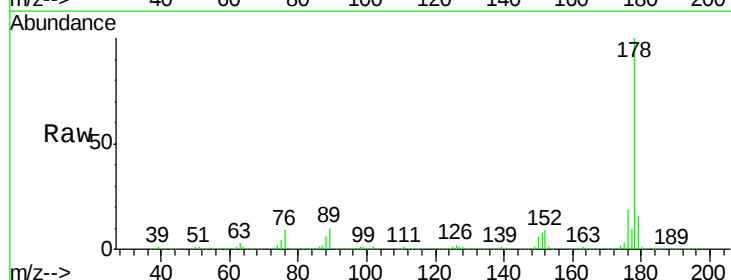
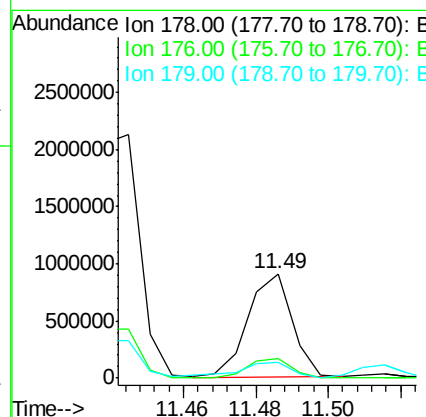
Manual Integrations
APPROVED

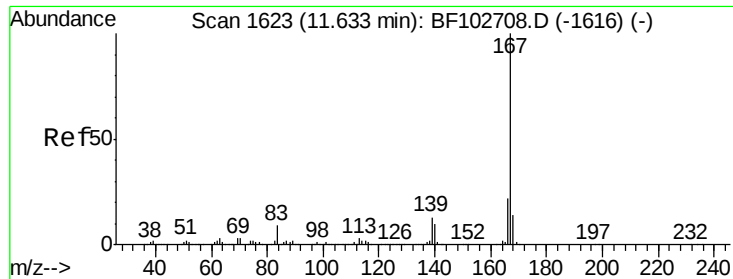
Sohil
2/20/2018 10:20:58 AM



#71
Anthracene
Concen: 32.452 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.00 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Tgt Ion:178 Resp: 762180
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.7 12.6 19.0





#72

Carbazole

Concen: 21.618 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Instrument :

BNA_F

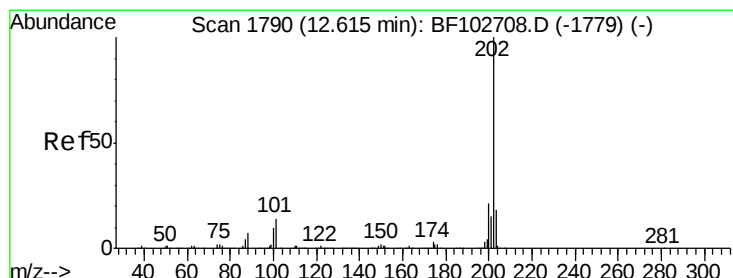
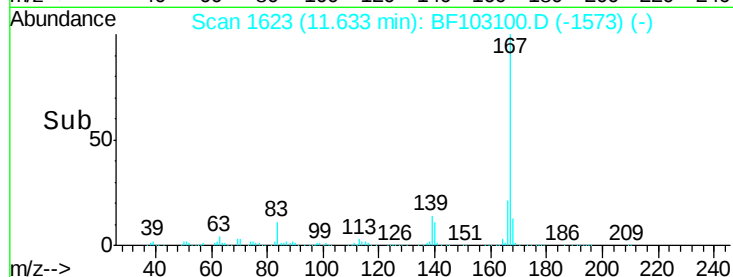
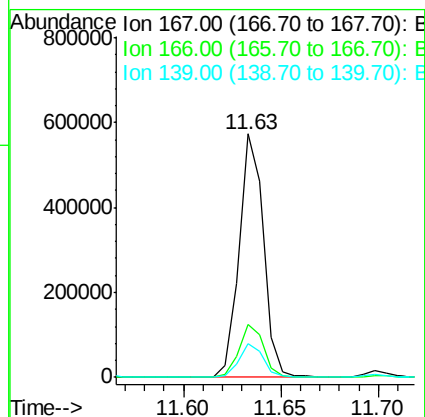
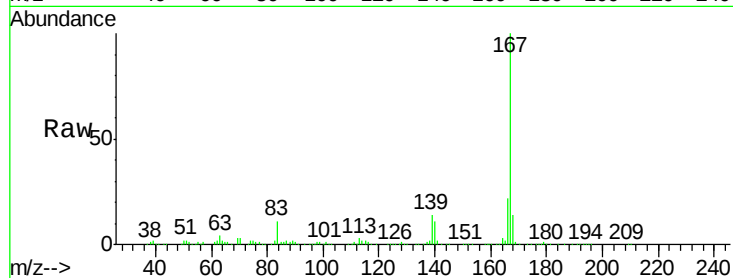
ClientSampleId :

A2_SB68_BOT_10

Tgt Ion:	167	Resp:	497413
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.6	26.4
139	13.9	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 83.293 ng

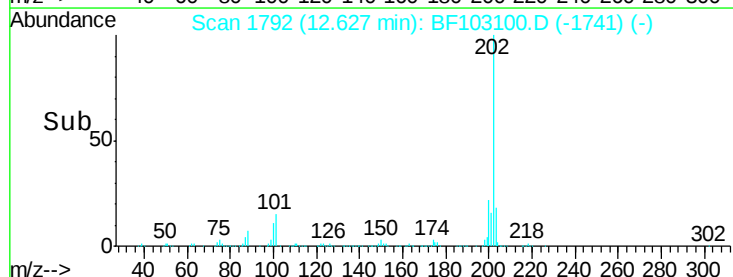
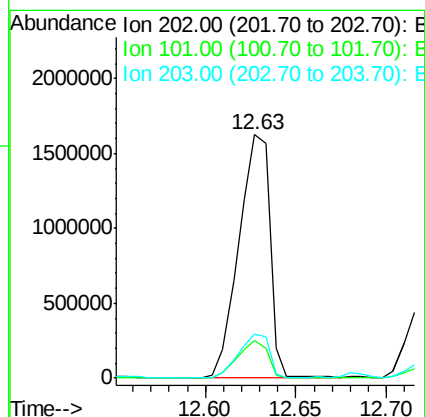
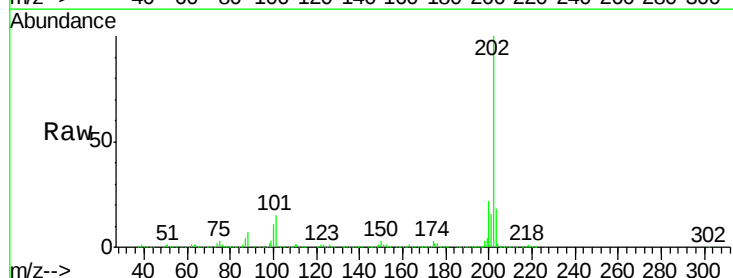
RT: 12.63 min Scan# 1792

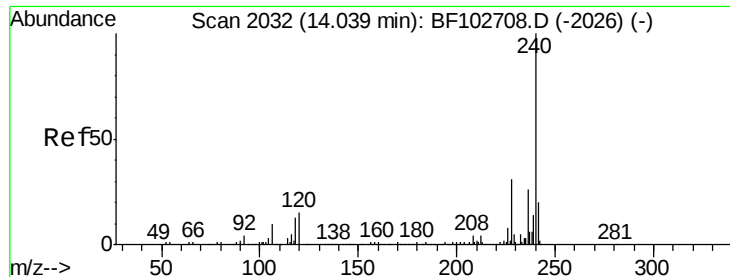
Delta R.T. -0.00 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Tgt Ion:	202	Resp:	1935167
Ion Ratio	Lower	Upper	
202	100		
101	15.4	0.0	34.1
203	18.0	0.0	38.1





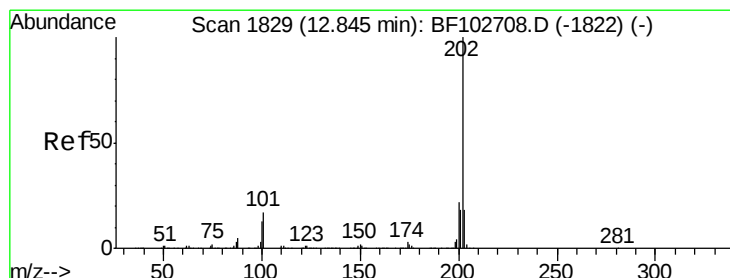
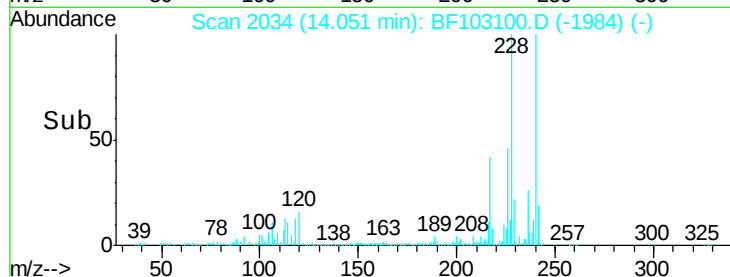
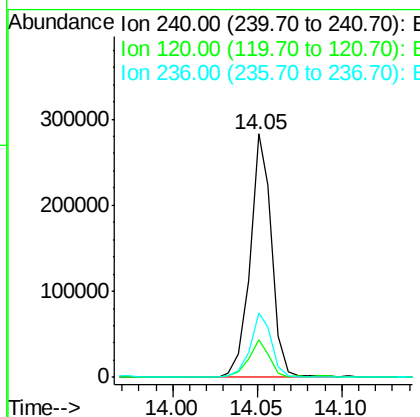
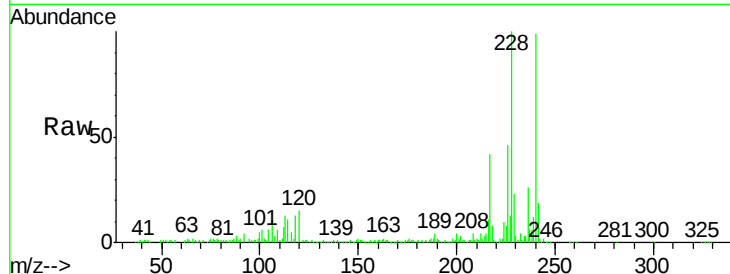
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Instrument :
BNA_F
ClientSampleId :
A2_SB68_BOT_10

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	249237		
120	15.6	9.5	14.3#	
236	26.4	20.7	31.1	

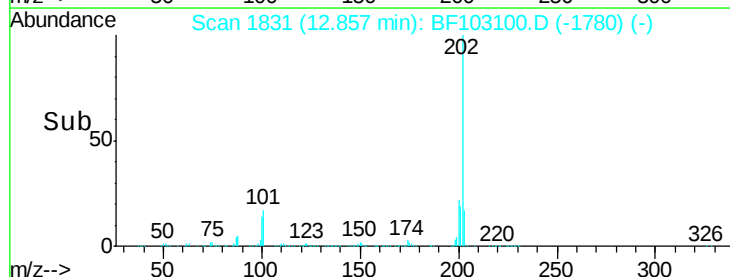
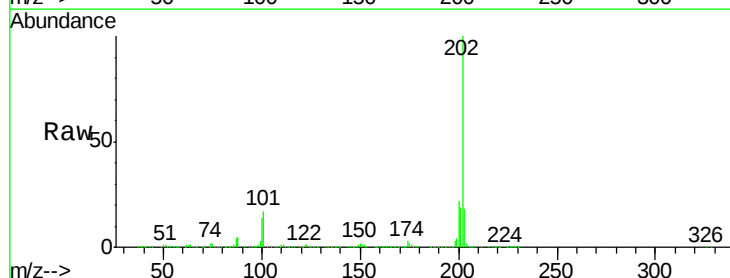
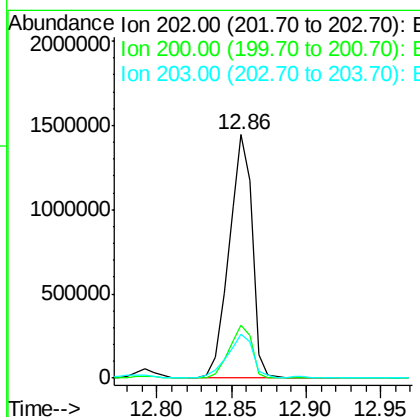
Manual Integrations
APPROVED

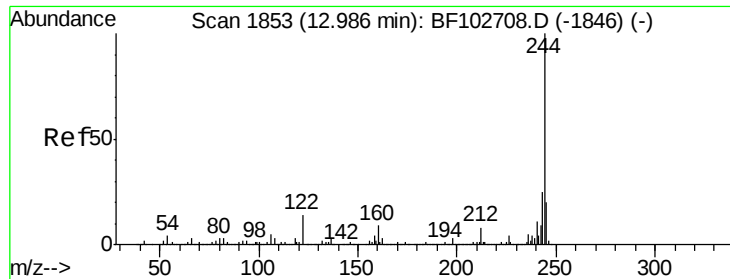
Sohil
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#77
Pyrene
Concen: 80.157 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.00 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1566591		
200	21.9	17.4	26.2	
203	18.2	14.3	21.5	





#78

Terphenyl-d14

Concen: 6.294 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF103100.D

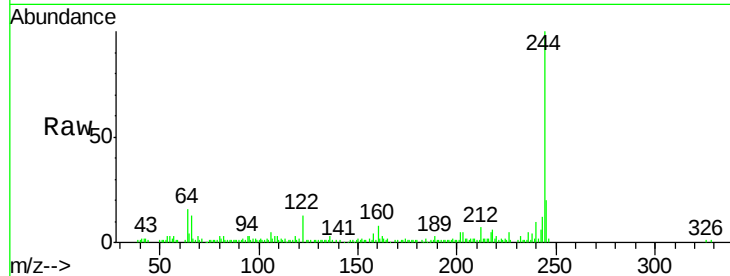
Acq: 20 Feb 2018 00:02

Instrument :

BNA_F

ClientSampleId :

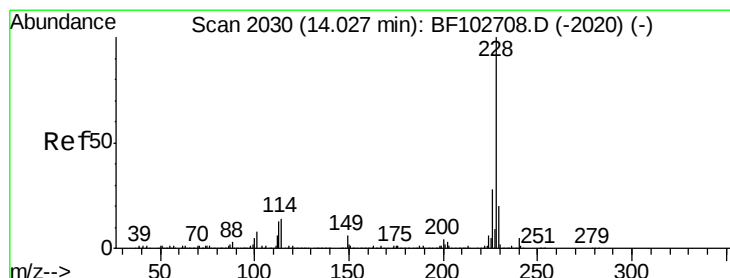
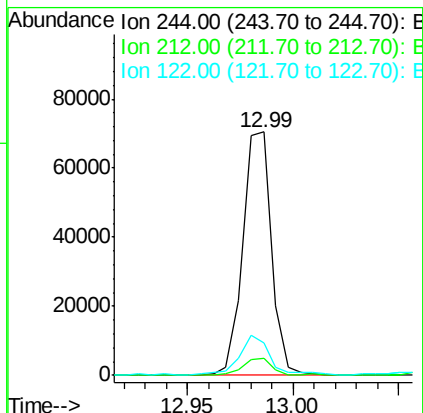
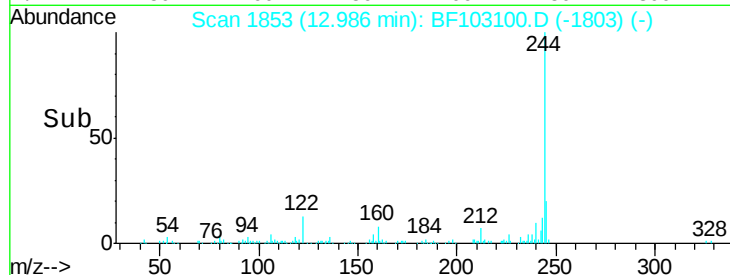
A2_SB68_BOT_10



Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	13.4	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

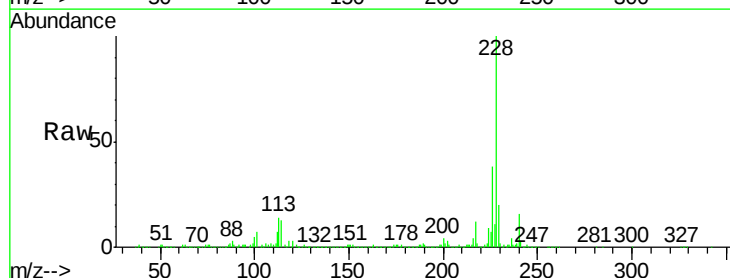
Concen: 54.804 ng m

RT: 14.04 min Scan# 2033

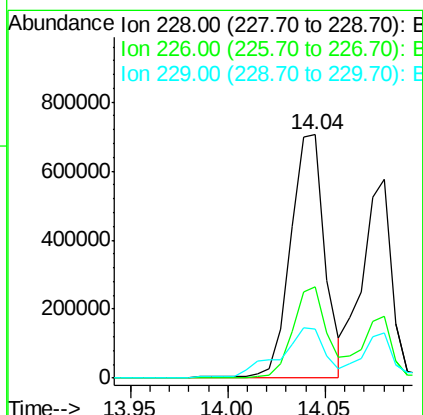
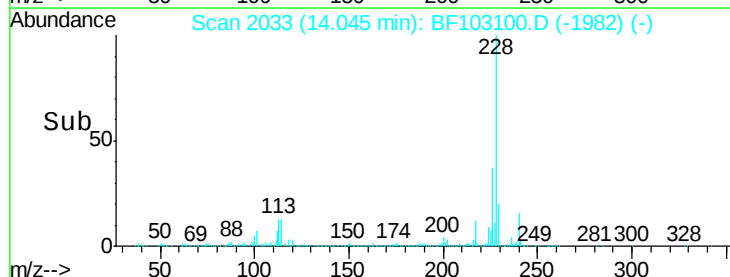
Delta R.T. -0.00 min

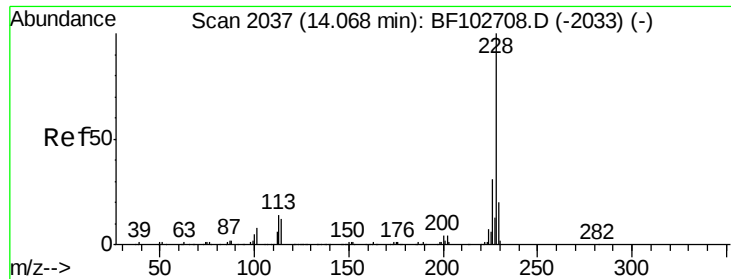
Lab File: BF103100.D

Acq: 20 Feb 2018 00:02



Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.7	22.6	33.8#
229	20.3	15.8	23.6





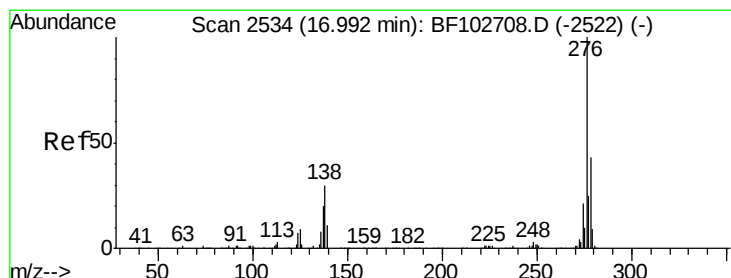
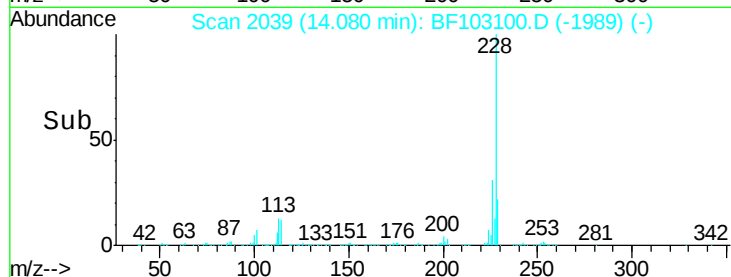
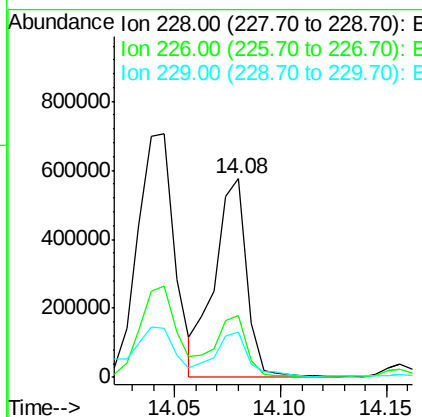
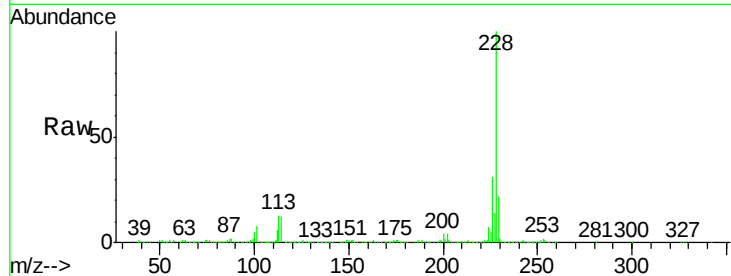
#82
Chrysene
Concen: 38.130 ng
RT: 14.08 min Scan# 2039
Delta R.T. -0.01 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Instrument :
BNA_F
ClientSampleId :
A2_SB68_BOT_10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	22.5	16.2	24.4

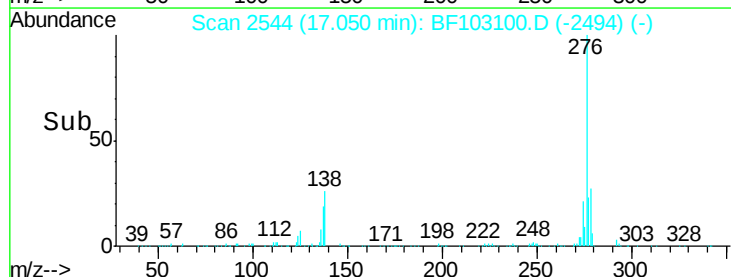
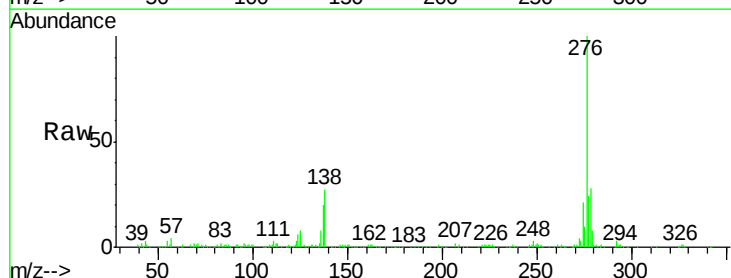
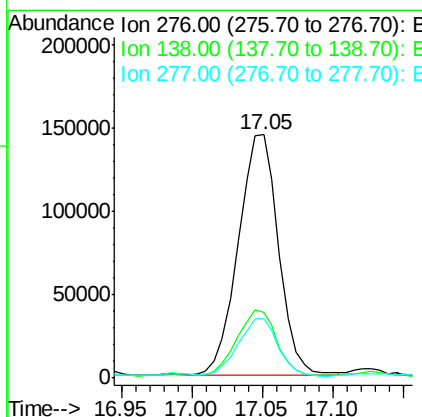
Manual Integrations
APPROVED

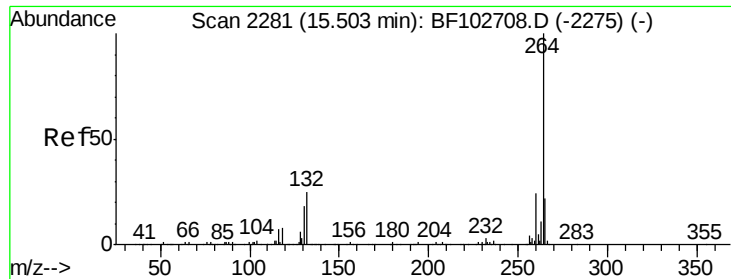
Sohil
2/20/2018 10:20:58 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 21.850 ng
RT: 17.05 min Scan# 2544
Delta R.T. -0.01 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.8	25.0	37.6
277	23.8	20.1	30.1





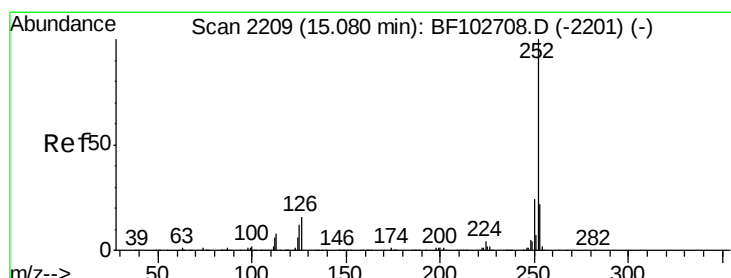
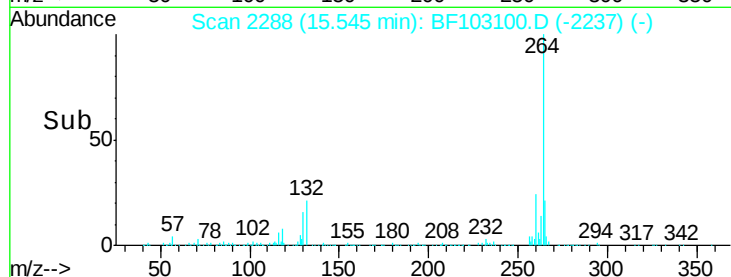
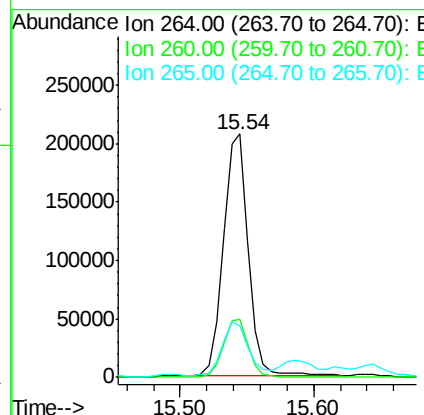
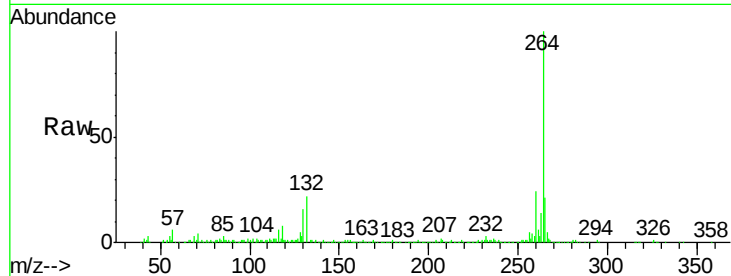
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2288
Delta R.T. -0.00 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Instrument :
BNA_F
ClientSampleId :
A2_SB68_BOT_10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.3	17.5	26.3

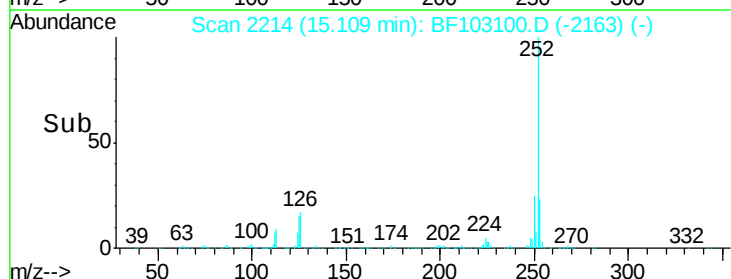
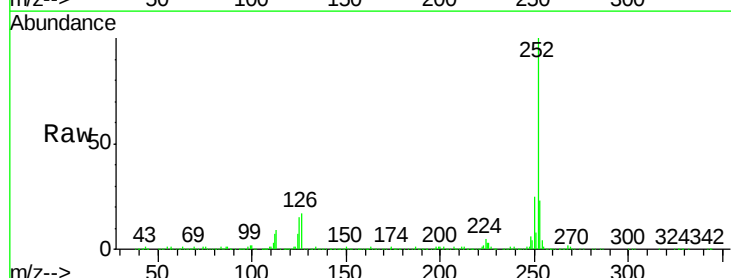
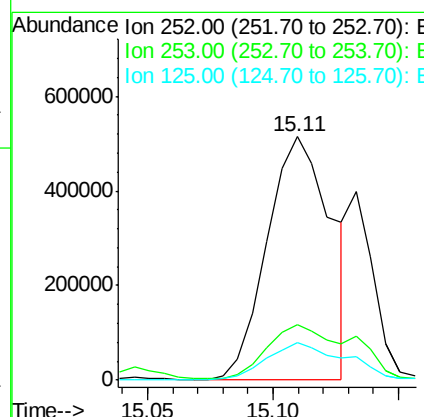
Manual Integrations
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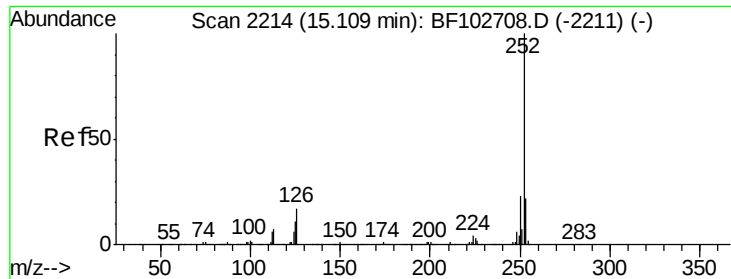
Sohil
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#87
Benzo(b)fluoranthene
Concen: 51.235 ng m
RT: 15.11 min Scan# 2214
Delta R.T. -0.00 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	15.4	9.0	13.6





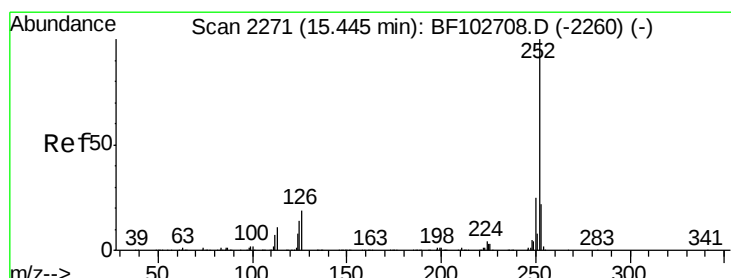
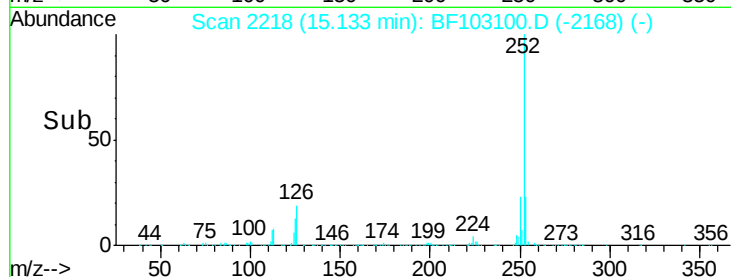
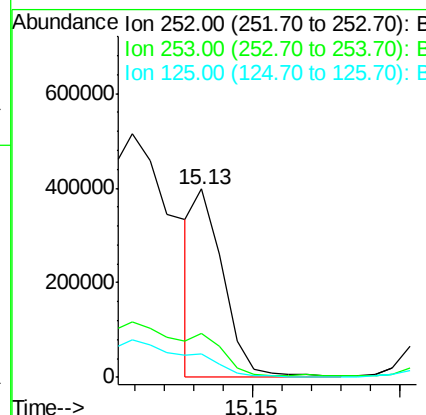
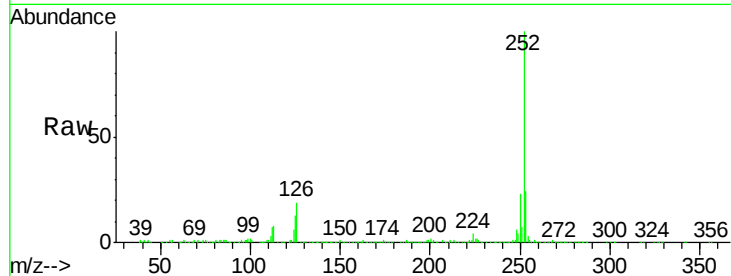
#88
Benzo(k)fluoranthene
Concen: 15.889 ng m
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Instrument :
BNA_F
ClientSampleId :
A2_SB68_BOT_10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	12.8	10.2	15.2

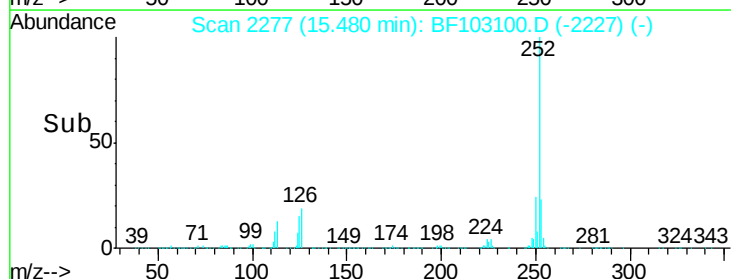
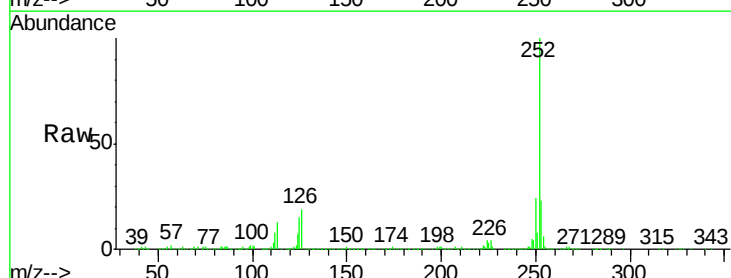
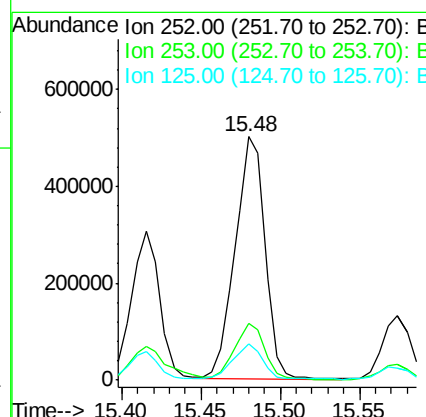
Manual Integrations
APPROVED

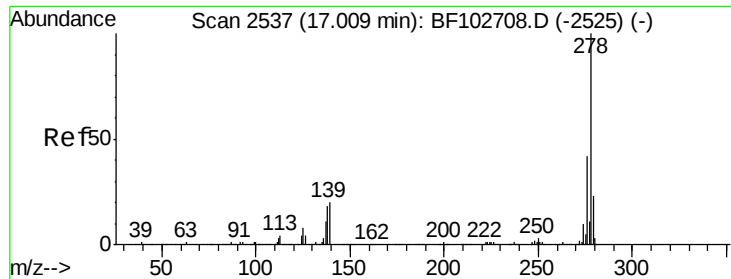
Sohil
2/20/2018 10:20:58 AM



#89
Benzo(a)pyrene
Concen: 40.933 ng
RT: 15.48 min Scan# 2277
Delta R.T. -0.01 min
Lab File: BF103100.D
Acq: 20 Feb 2018 00:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	15.1	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 6.193 ng m

RT: 17.05 min Scan# 2544

Delta R.T. -0.02 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Instrument :

BNA_F

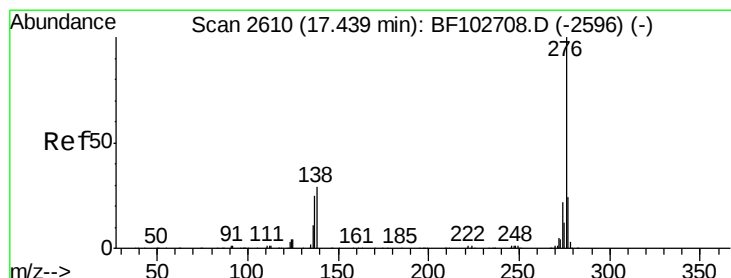
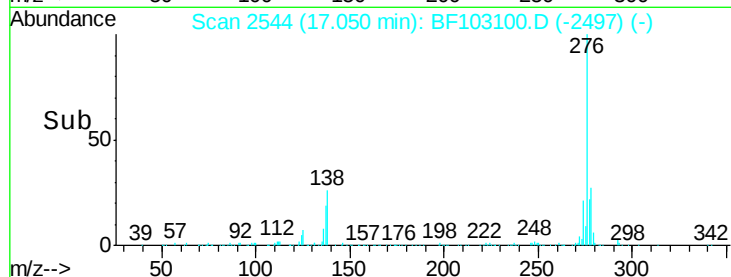
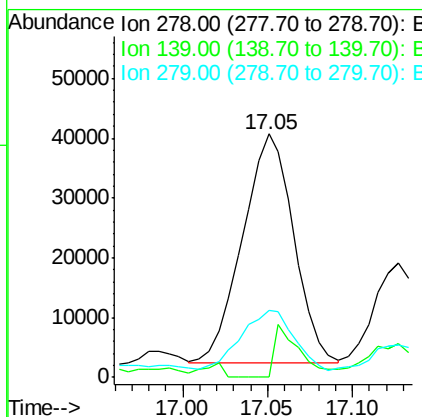
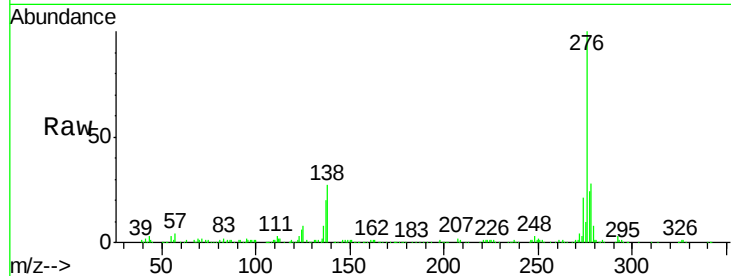
ClientSampleId :

A2_SB68_BOT_10

Tgt Ion:	278	Resp:	80302
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	27.7	19.0	28.4

Manual Integrations
APPROVED

Sohil
2/20/2018 10:20:58 AM



#91

Benzo(g,h,i)perylene

Concen: 19.044 ng

RT: 17.51 min Scan# 2622

Delta R.T. -0.01 min

Lab File: BF103100.D

Acq: 20 Feb 2018 00:02

Tgt Ion:	276	Resp:	241692
Ion Ratio	Lower	Upper	
276	100		
277	23.4	17.9	26.9
138	28.0	21.8	32.8

