

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
 Data File : BF107712.D
 Acq On : 26 Jul 2018 20:54
 Operator : JU/SJ
 Sample : J4109-03 10X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

Manual Integrations
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Sohil
 7/27/2018 2:54:00 PM

Quant Time: Jul 27 11:21:08 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	169539	20.00	ng	-0.02
21) Naphthalene-d8	8.24	136	742978	20.00	ng	-0.02
38) Acenaphthene-d10	10.00	164	341577	20.00	ng	-0.02
63) Phenanthrene-d10	11.49	188	603626	20.00	ng	-0.02
75) Chrysene-d12	14.15	240	431118	20.00	ng	-0.02
86) Perylene-d12	15.68	264	500842	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.63	112	67161m	6.37	ng	0.02
7) Phenol-d6	6.62	99	87963	6.95	ng	0.00
23) Nitrobenzene-d5	7.54	82	57904	5.26	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	31777	8.18	ng	-0.02
44) 2-Fluorobiphenyl	9.31	172	134395	1.22	ng	-0.02
78) Terphenyl-d14	13.08	244	103662	6.16	ng	-0.02
Target Compounds						
31) Naphthalene	8.27	128	939734	28.763	ng	Qvalue 99
37) 2-Methylnaphthalene	8.95	142	65864	2.909	ng	95
48) Acenaphthylene	9.87	152	88273	2.584	ng	99
51) Acenaphthene	10.03	154	102852	4.805	ng	96
54) Dibenzofuran	10.21	168	101111	3.208	ng	95
57) Fluorene	10.55	166	167410	7.446	ng	96
70) Phenanthrene	11.52	178	527473	17.932	ng	98
71) Anthracene	11.57	178	204572	6.907	ng	97
72) Carbazole	11.74	167	93928	3.050	ng	98
74) Fluoranthene	12.71	202	514992	16.316	ng	96
77) Pyrene	12.94	202	498528	16.906	ng	98
80) Benzo(a)anthracene	14.14	228	284508	11.261	ng	93
82) Chrysene	14.17	228	249665	10.287	ng	98
85) Indeno(1,2,3-cd)pyrene	17.24	276	115039	5.593	ng	# 89
87) Benzo(b)fluoranthene	15.22	252	271824m	9.917	ng	
88) Benzo(k)fluoranthene	15.24	252	133913m	4.987	ng	
89) Benzo(a)pyrene	15.61	252	260187	10.377	ng	97
91) Benzo(g,h,i)perylene	17.72	276	106770m	4.994	ng	

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

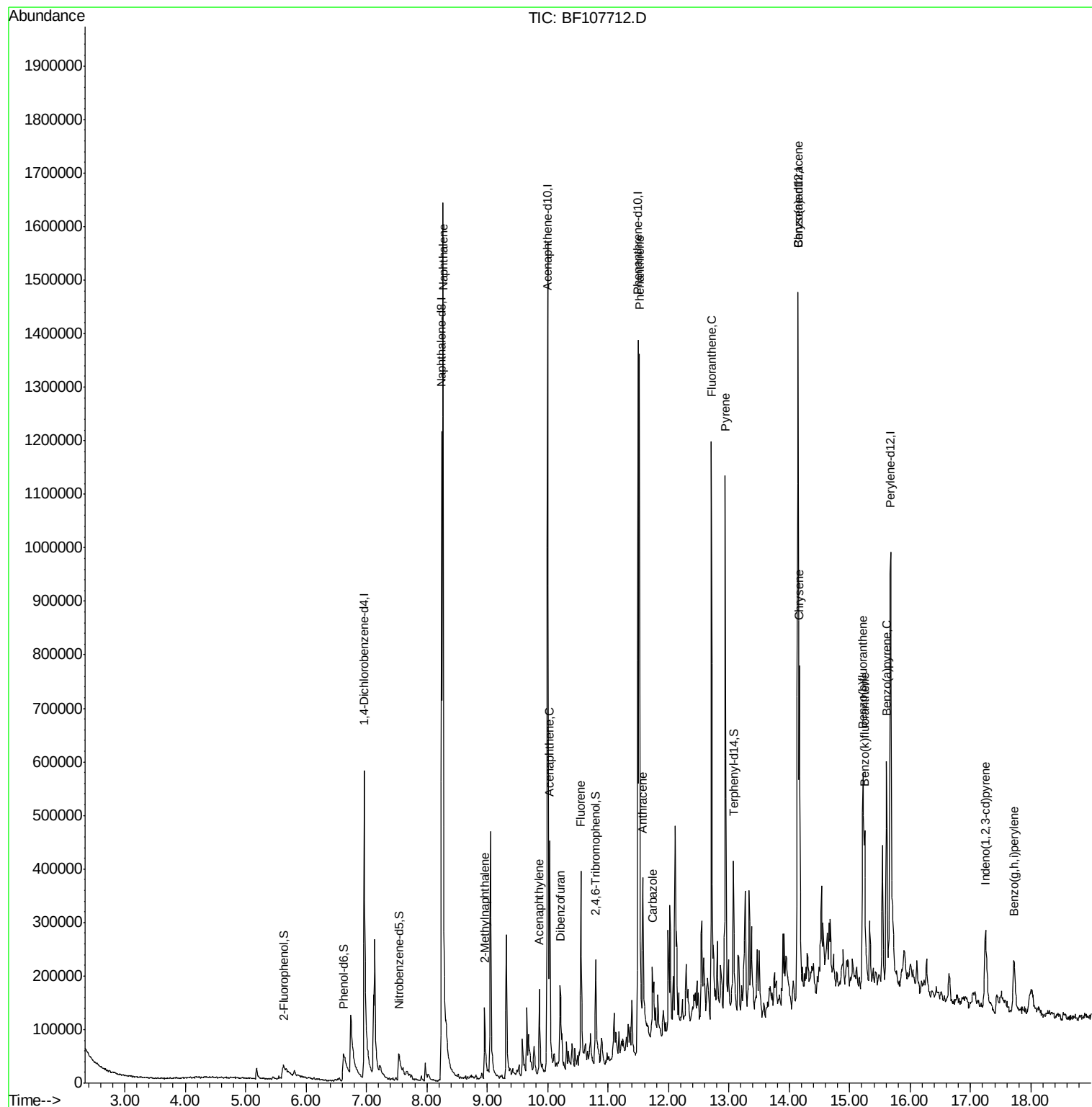
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107712.D
Acq On : 26 Jul 2018 20:54
Operator : JU/SJ
Sample : J4109-03 10X
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ALS Vial : 16 Sample Multiplier: 1

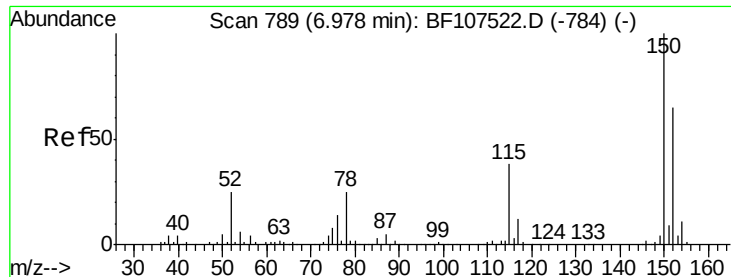
Instrument :
BNA_F
ClientSampleID :
SB-12(3-5)

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Quant Time: Jul 27 11:21:08 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 20 16:29:27 2018
Response via : Initial Calibration





#1

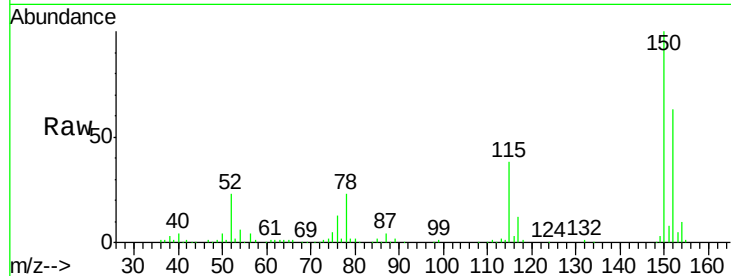
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.3	124.6	186.8
115	60.2	50.1	75.1

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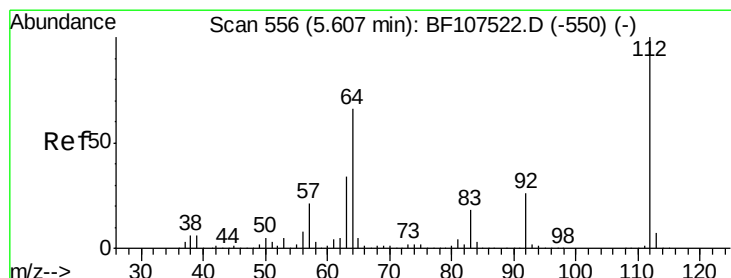
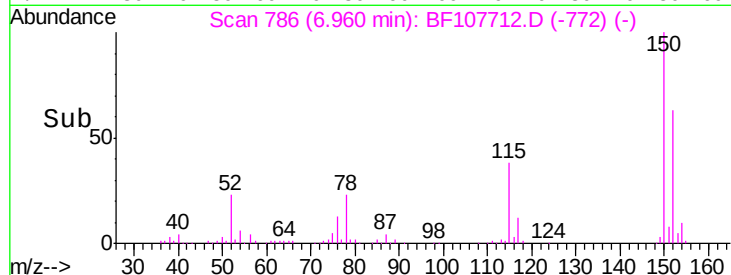
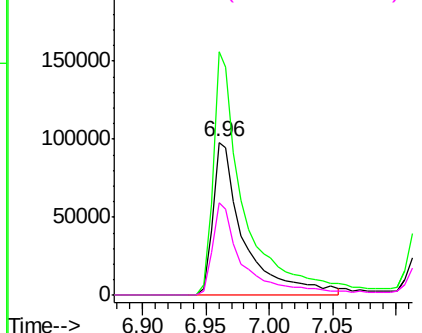


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

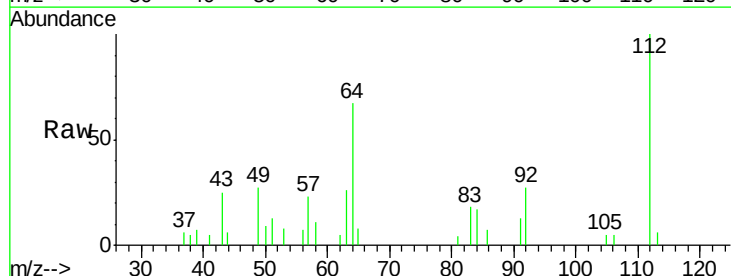
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 6.369 ng m
RT: 5.63 min Scan# 560
Delta R.T. 0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.5	47.9	71.9
63	26.4	23.7	35.5

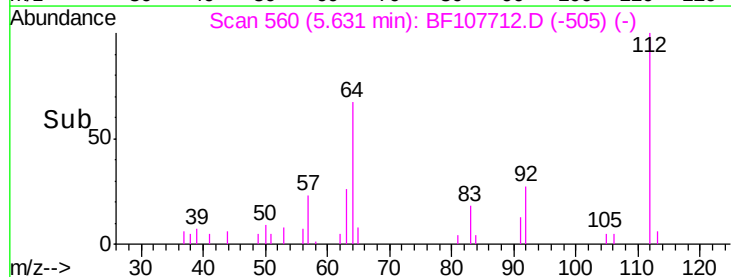
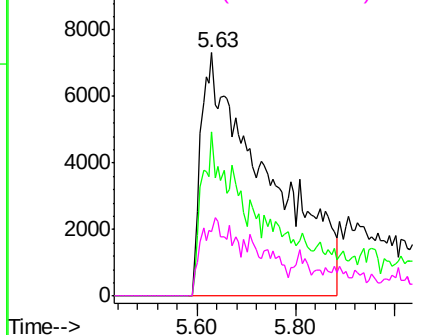


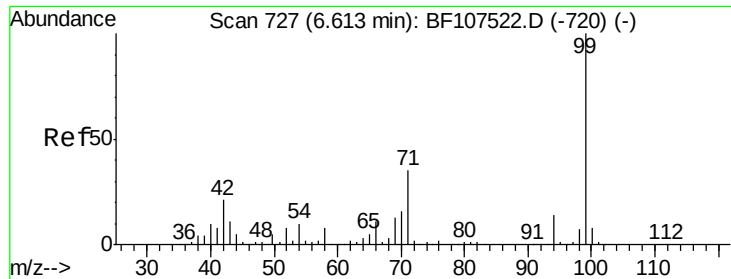
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 6.947 ng

RT: 6.62 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Instrument :

BNA_F

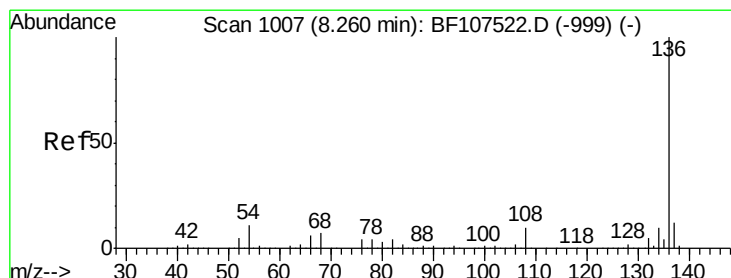
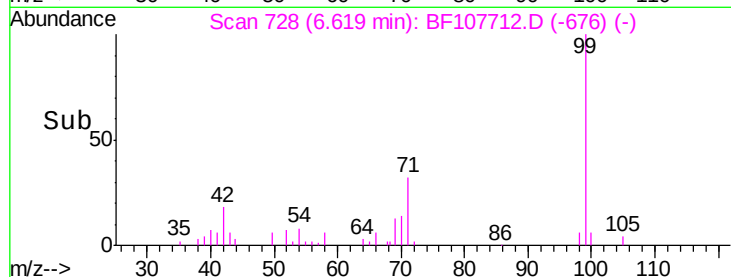
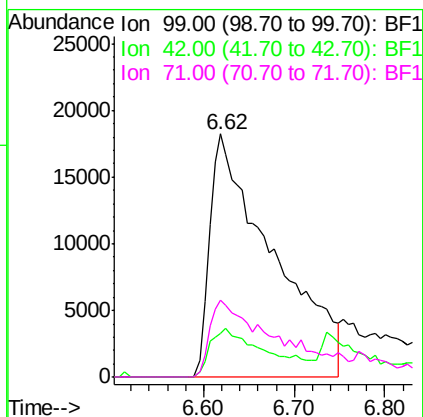
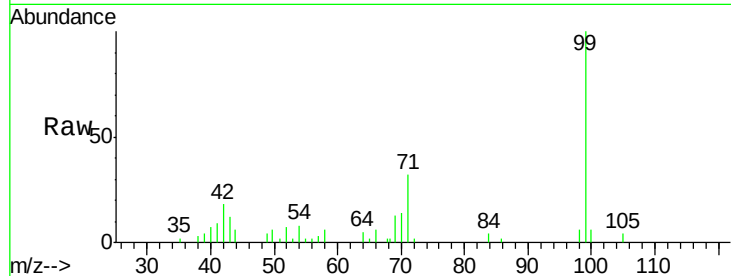
ClientSampleId :

SB-12(3-5)

Tgt Ion:	99	Resp:	87963
Ion Ratio	Lower	Upper	
99	100		
42	18.2	14.5	21.7
71	31.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

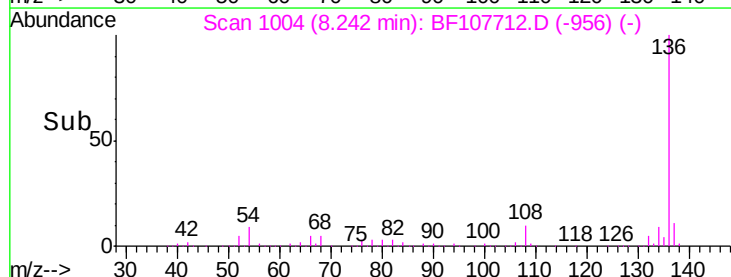
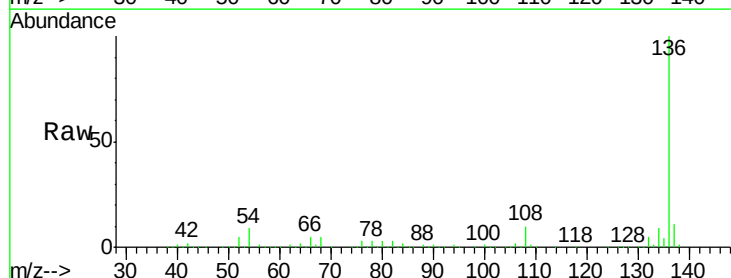
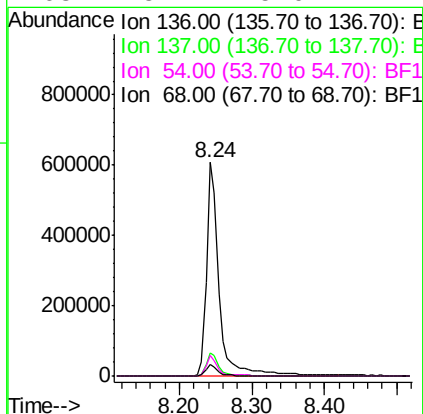
RT: 8.24 min Scan# 1004

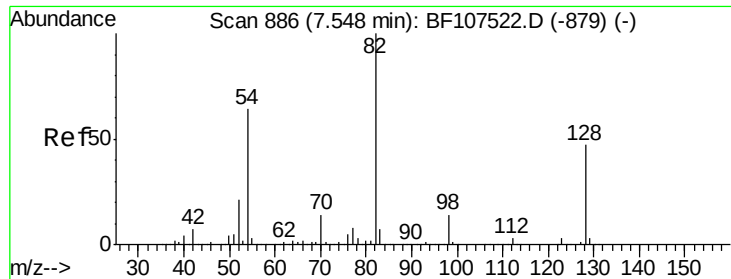
Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Tgt Ion:	136	Resp:	742978
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	9.4	6.6	9.8
68	5.2	5.0	7.4





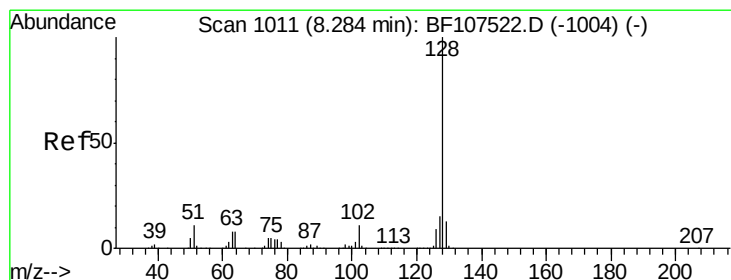
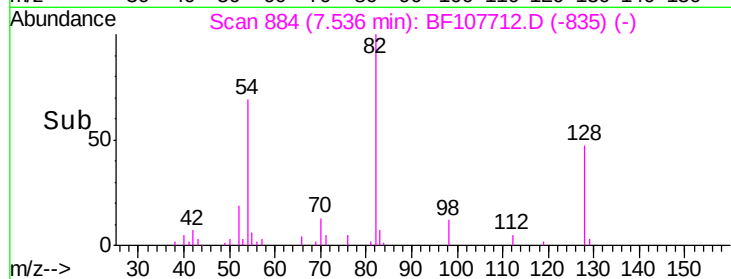
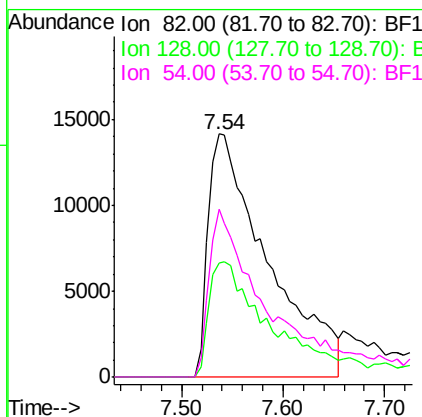
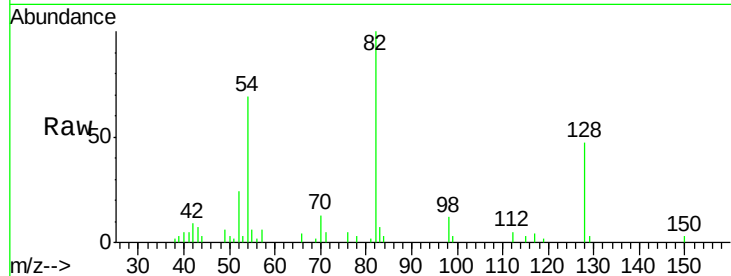
#23
Nitrobenzene-d5
Concen: 5.260 ng
RT: 7.54 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.0	36.1	54.1
54	69.3	41.4	62.2

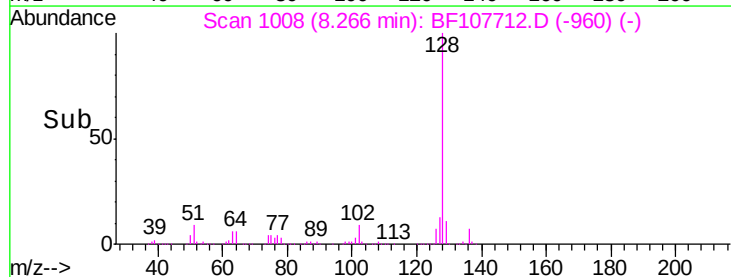
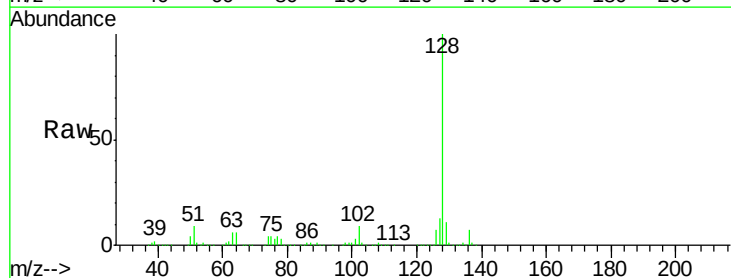
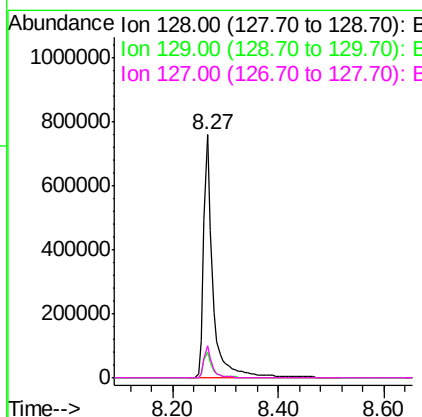
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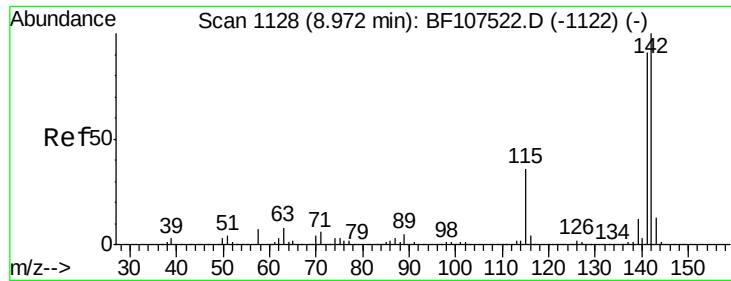
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#31
Naphthalene
Concen: 28.763 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

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





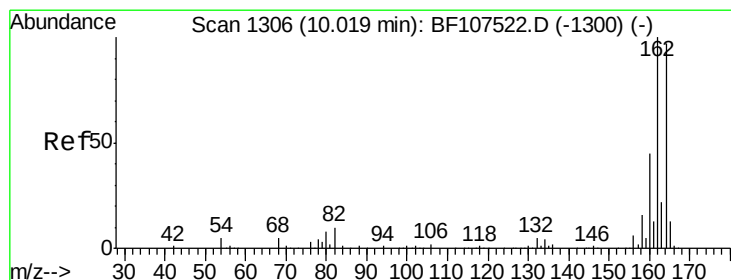
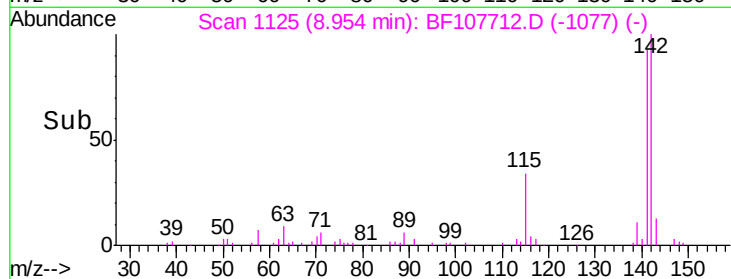
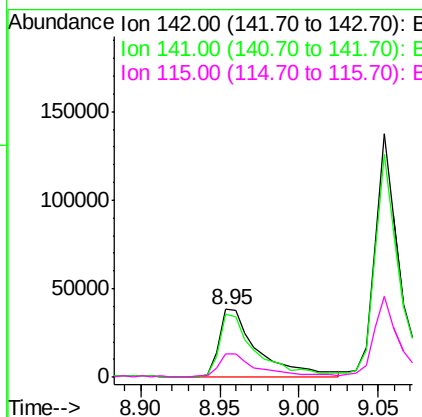
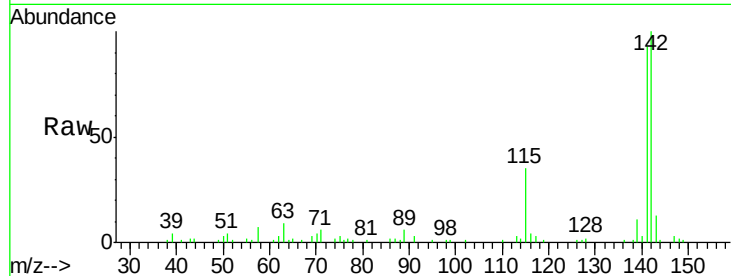
#37
2-Methylnaphthalene
Concen: 2.909 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.2	70.8	106.2
115	34.8	26.1	39.1

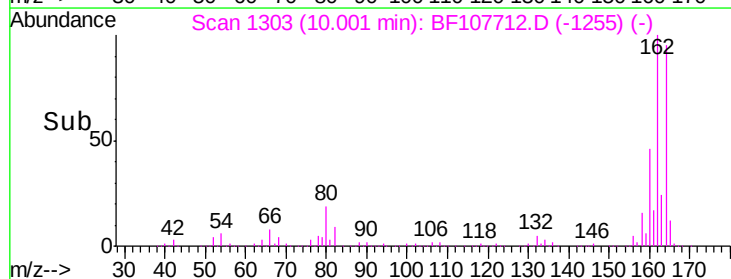
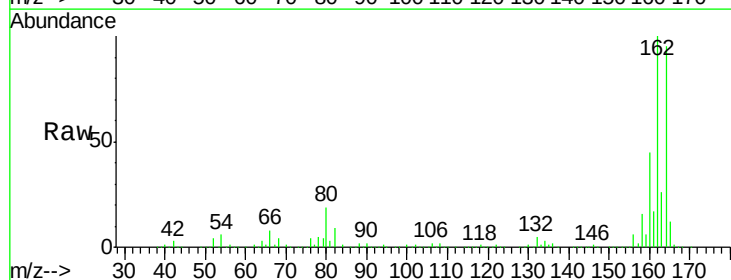
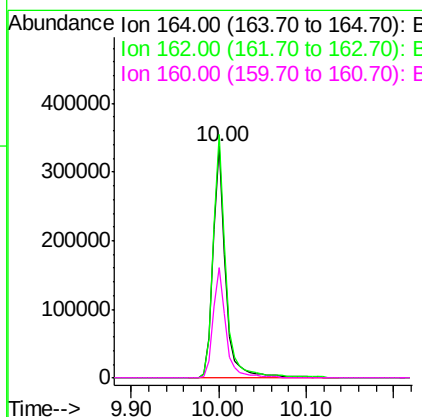
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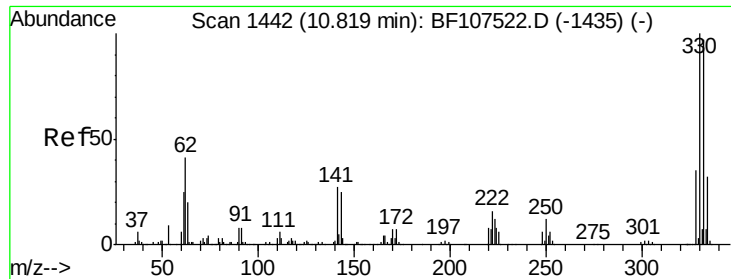
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.1	86.1	129.1
160	47.8	38.3	57.5





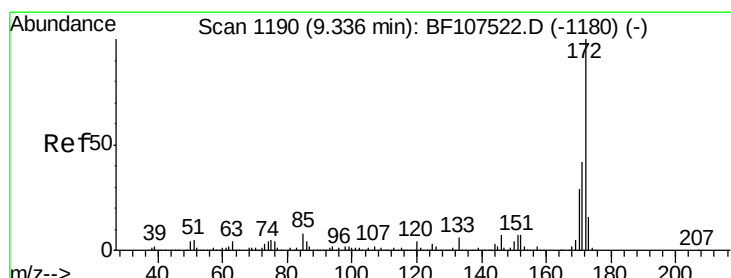
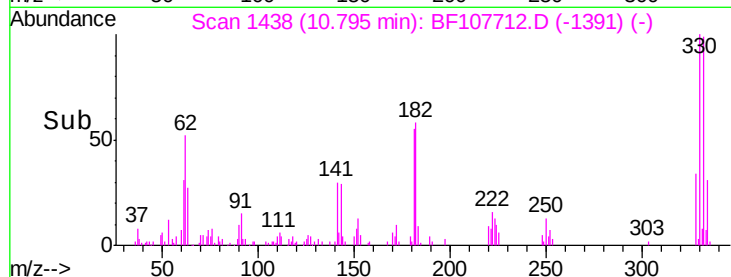
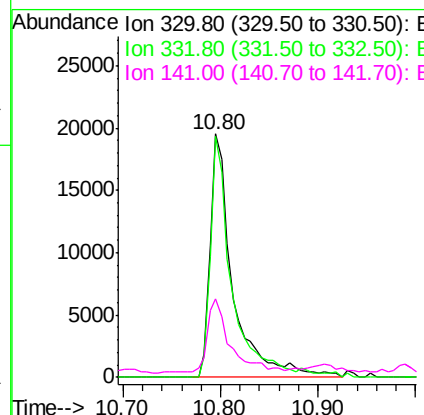
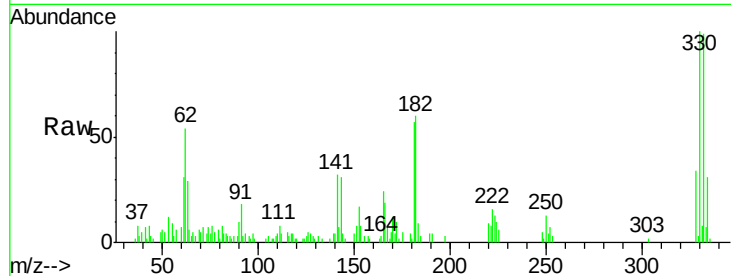
#41
 2,4,6-Tribromophenol
 Concen: 8.181 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Instrument :
 BNA_F
 ClientSampled :
 SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.8	77.0	115.6
141	32.0	29.9	44.9

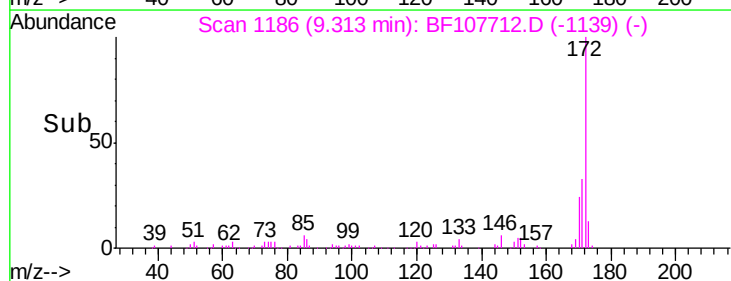
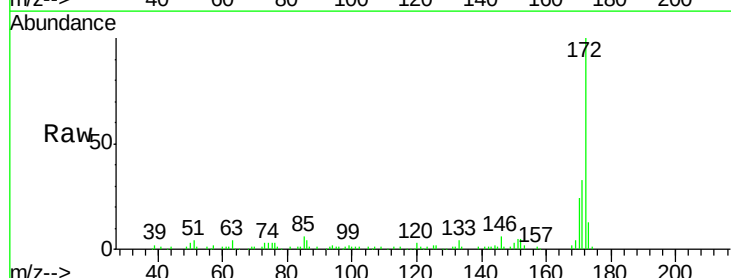
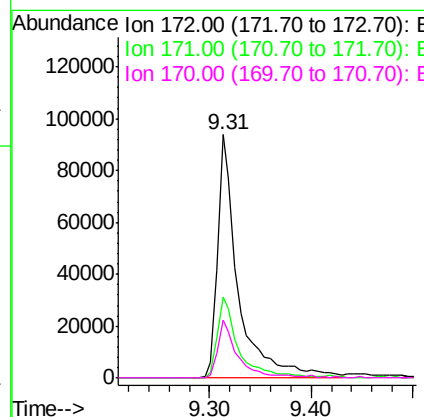
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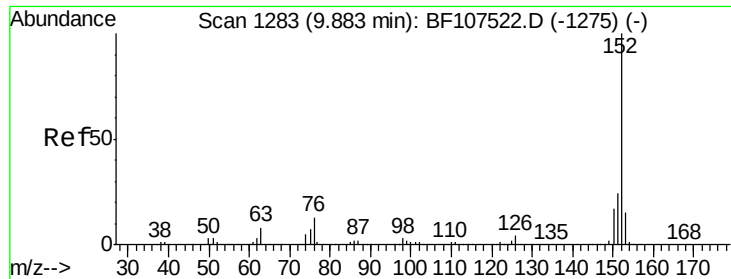
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#44
 2-Fluorobiphenyl
 Concen: 1.219 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.2	29.7	44.5
170	23.9	19.6	29.4





#48

Acenaphthylene

Concen: 2.584 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Instrument :

BNA_F

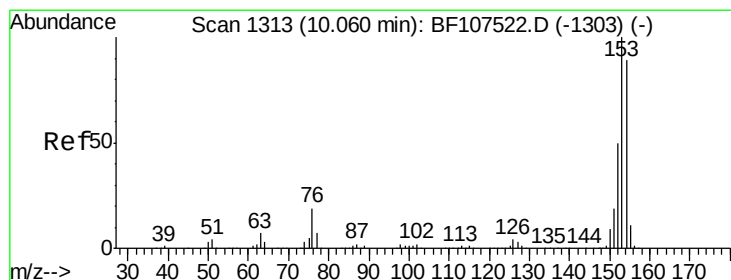
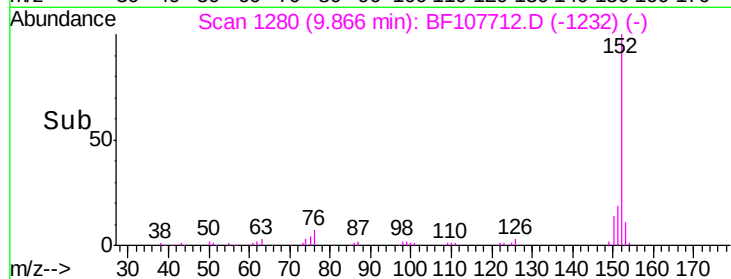
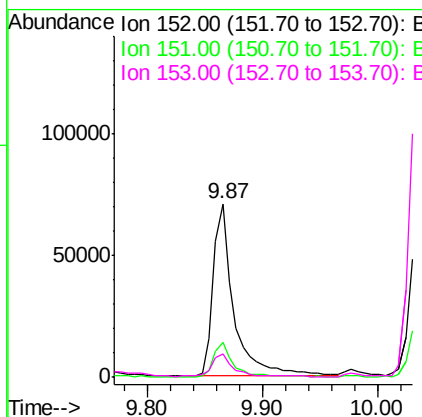
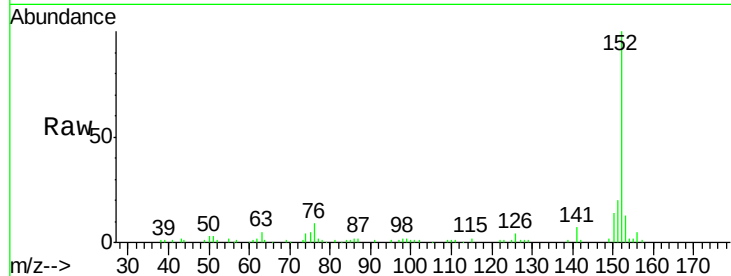
ClientSampled :

SB-12(3-5)

Tgt Ion:	152	Resp:	88273
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.3	24.5
153	13.4	10.7	16.1

Manual Integrations
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#51

Acenaphthene

Concen: 4.805 ng

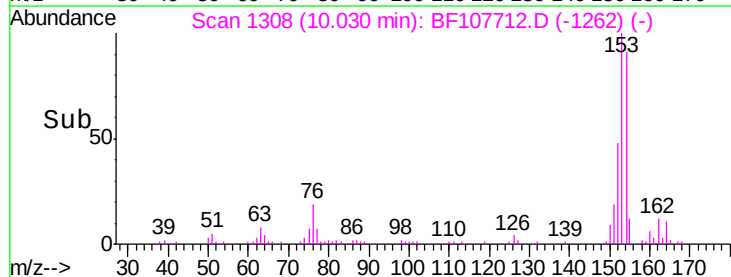
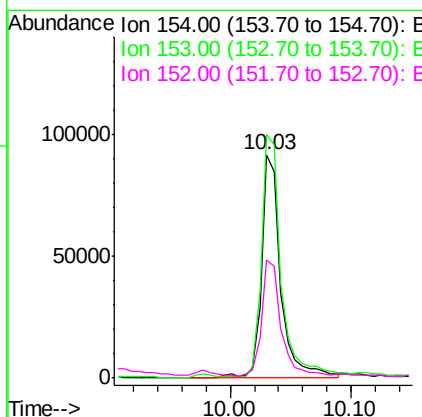
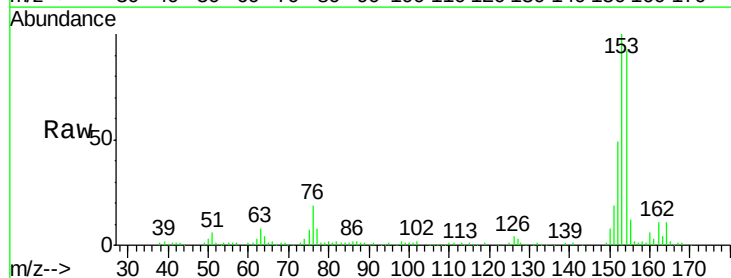
RT: 10.03 min Scan# 1308

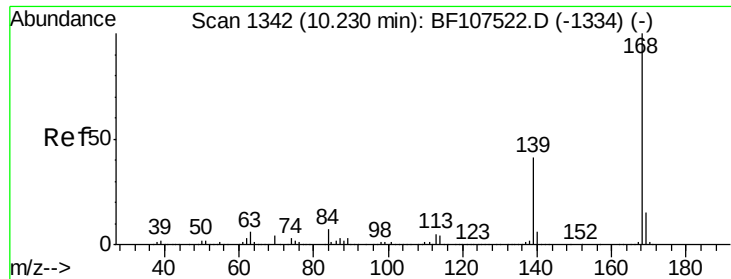
Delta R.T. -0.03 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Tgt Ion:	154	Resp:	102852
Ion Ratio	Lower	Upper	
154	100		
153	109.1	91.2	136.8
152	53.1	43.8	65.8





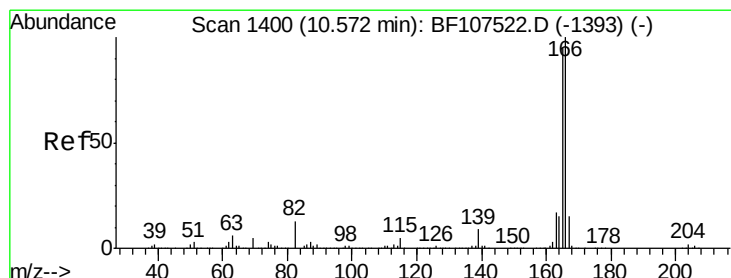
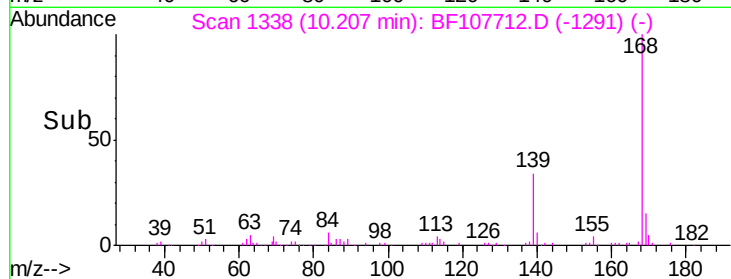
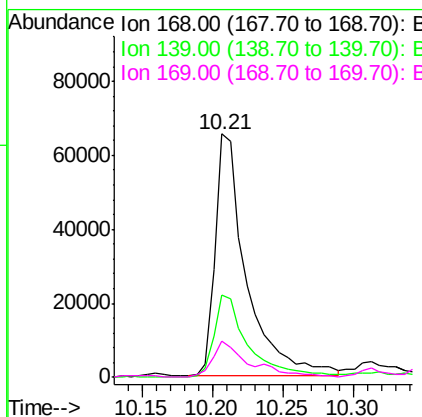
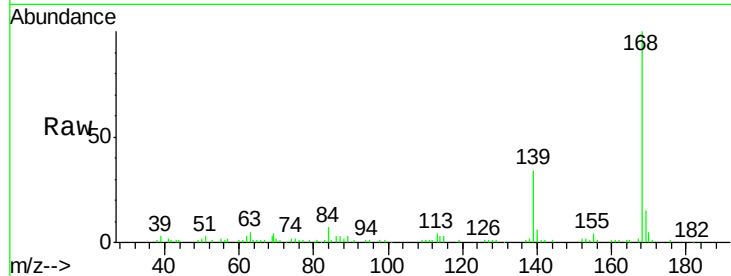
#54
Dibenzenofuran
Concen: 3.208 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	101111		
139	34.1	30.1	45.1	
169	14.8	10.9	16.3	

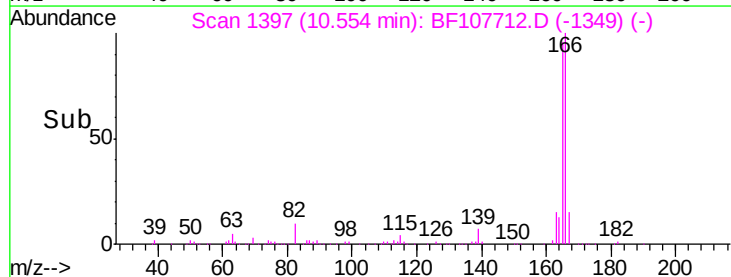
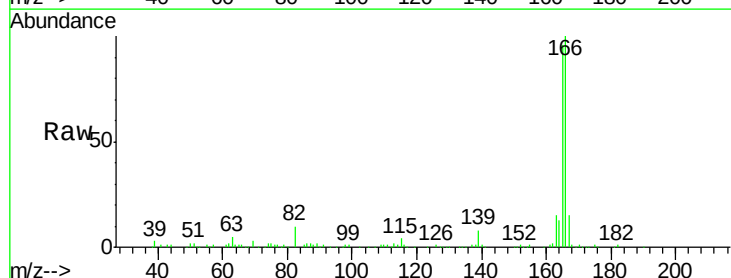
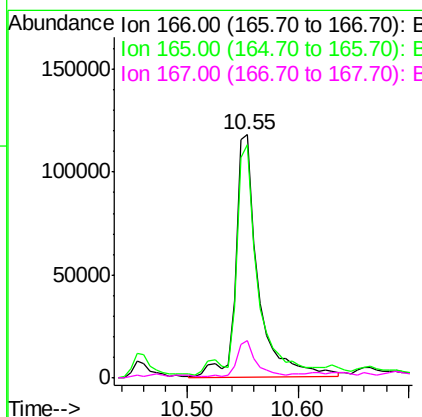
Manual Integrations
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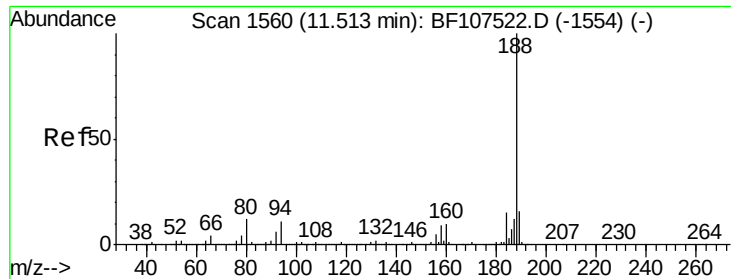
Sohil
7/27/2018 2:54:00 PM



#57
Fluorene
Concen: 7.446 ng
RT: 10.55 min Scan# 1397
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	167410		
165	95.9	79.8	119.8	
167	15.3	10.6	16.0	





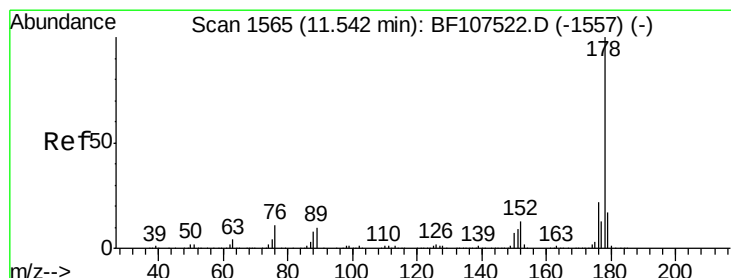
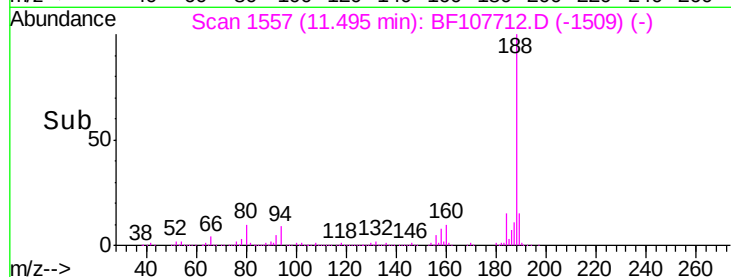
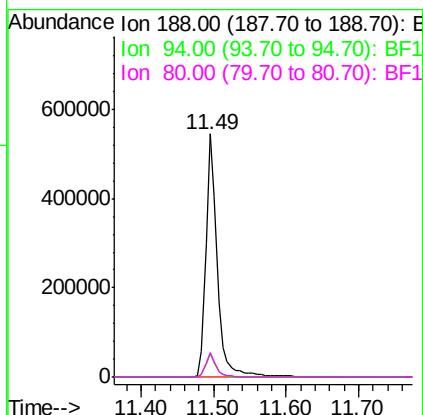
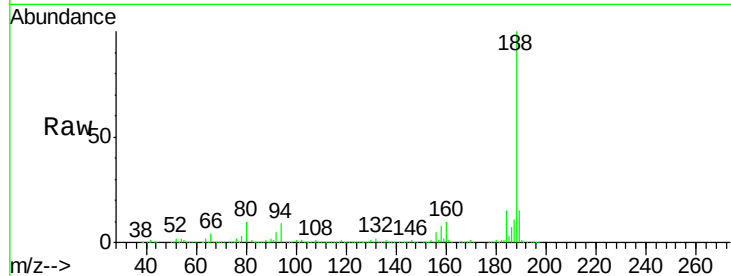
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1557
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	603626		
94	9.4	8.5	12.7	
80	10.1	9.2	13.8	

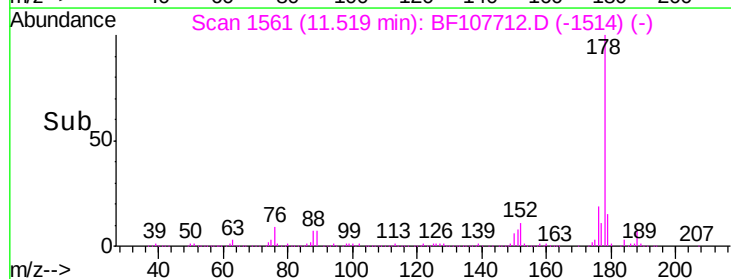
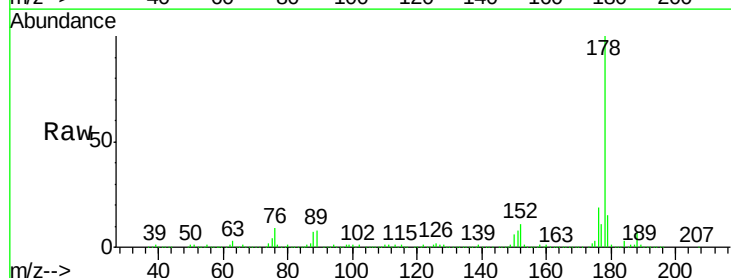
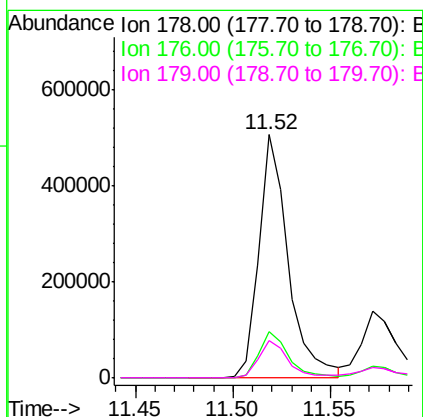
Manual Integrations
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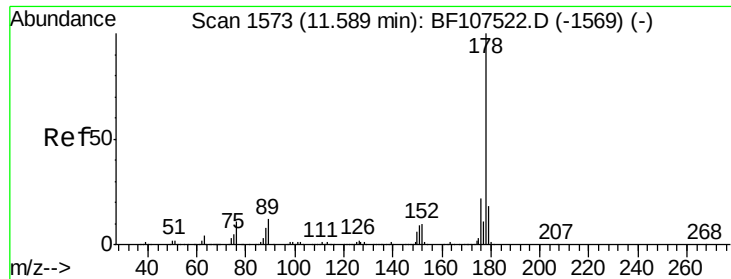
Sohil
7/27/2018 2:54:00 PM



#70
Phenanthrene
Concen: 17.932 ng
RT: 11.52 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	527473		
176	19.4	15.8	23.8	
179	15.2	13.0	19.6	





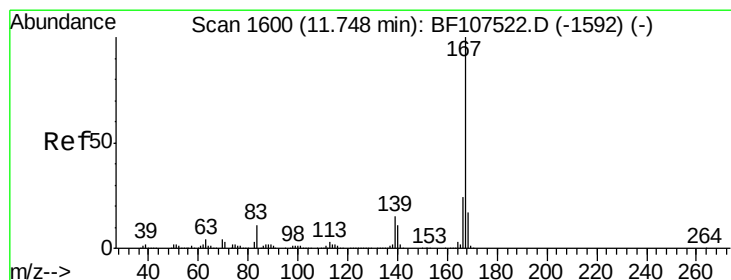
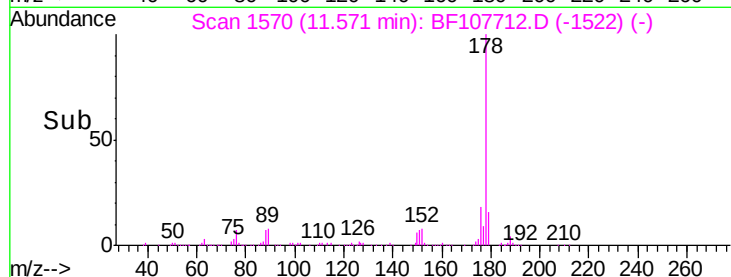
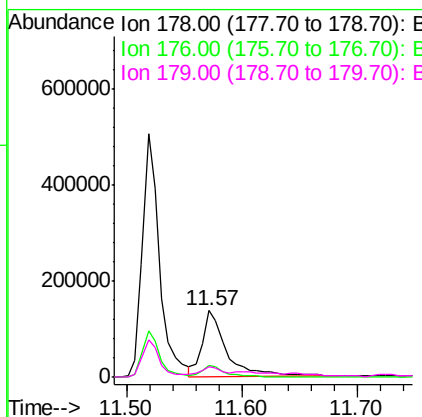
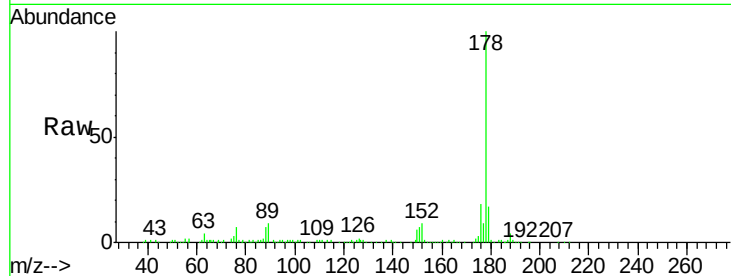
#71
 Anthracene
 Concen: 6.907 ng
 RT: 11.57 min Scan# 1570
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.8	15.4	23.2
179	16.8	12.6	19.0

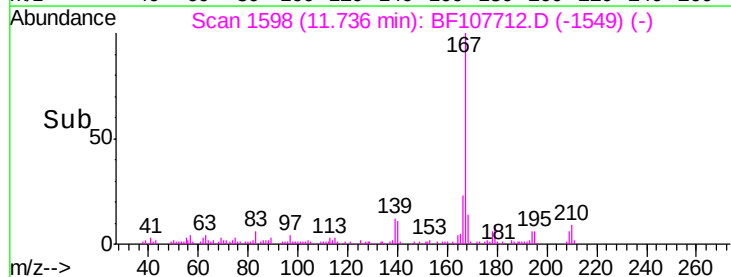
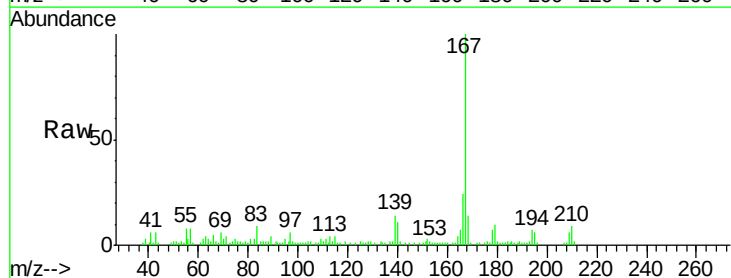
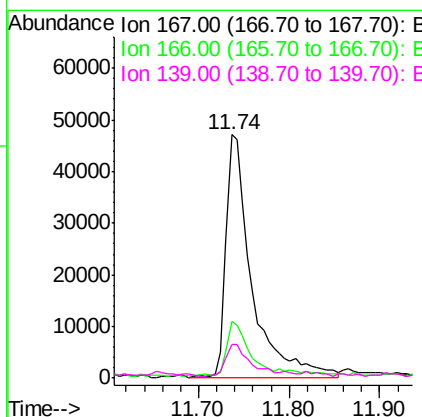
Manual Integrations
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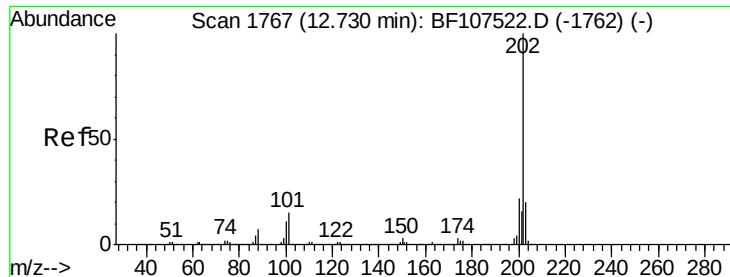
Sohil
 7/27/2018 2:54:00 PM



#72
 Carbazole
 Concen: 3.050 ng
 RT: 11.74 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.5	17.6	26.4
139	13.7	10.9	16.3





#74

Fluoranthene

Concen: 16.316 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Instrument :

BNA_F

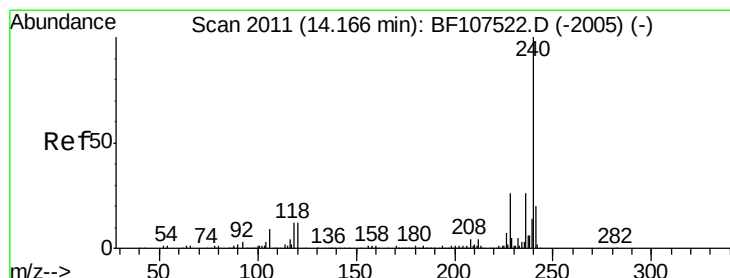
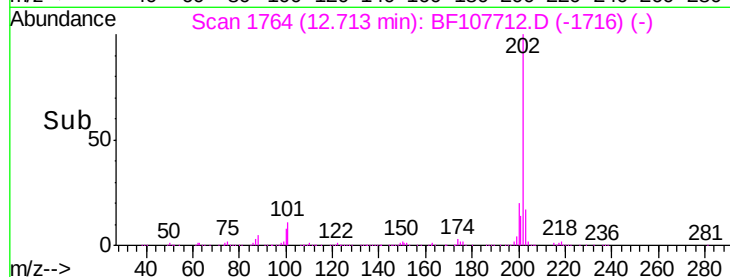
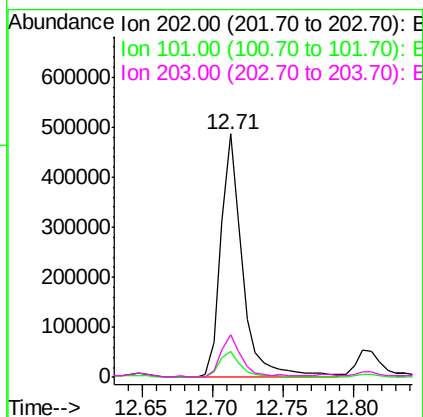
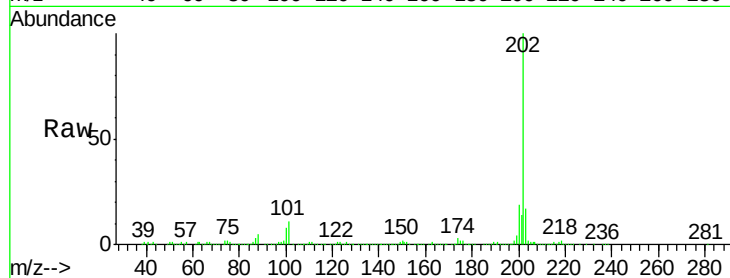
ClientSampleId :

SB-12(3-5)

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	514992		
101	10.8	0.0	34.1	
203	17.5	0.0	38.1	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

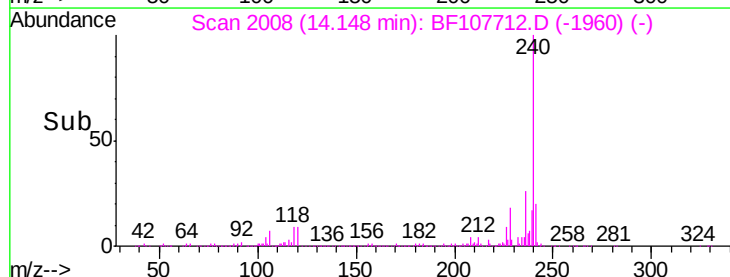
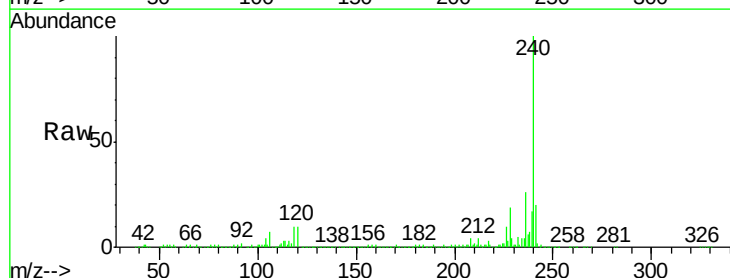
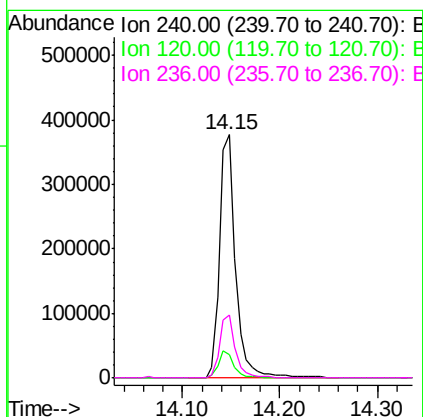
RT: 14.15 min Scan# 2008

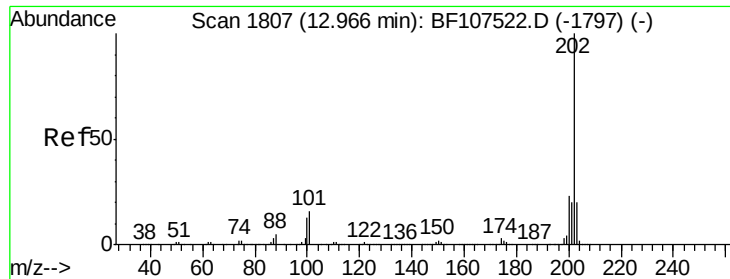
Delta R.T. -0.02 min

Lab File: BF107712.D

Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	431118		
120	9.5	9.5	14.3#	
236	25.9	20.7	31.1	





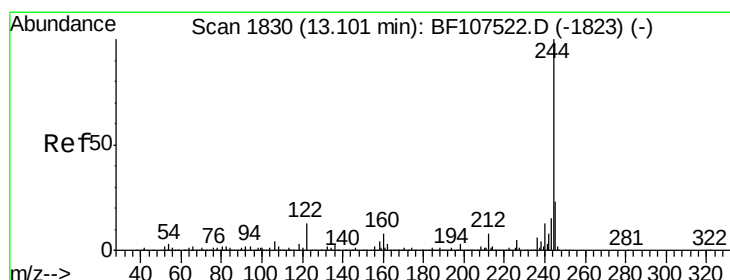
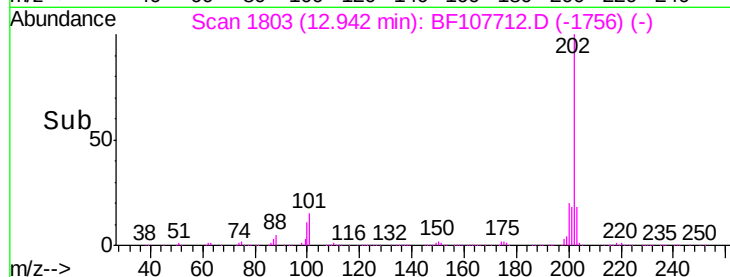
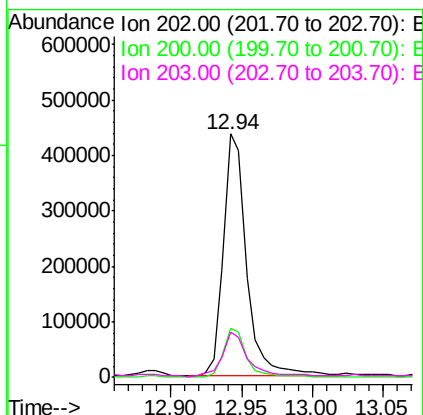
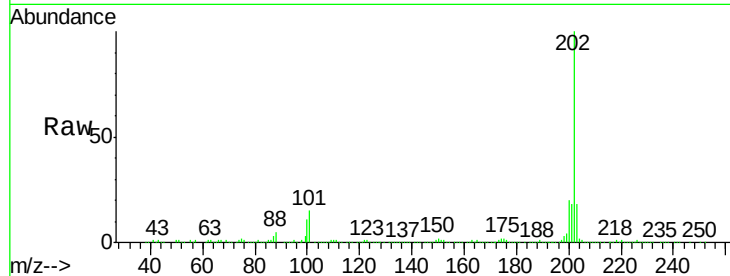
#77
 Pyrene
 Concen: 16.906 ng
 RT: 12.94 min Scan# 1803
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.2	17.4	26.2
203	18.3	14.3	21.5

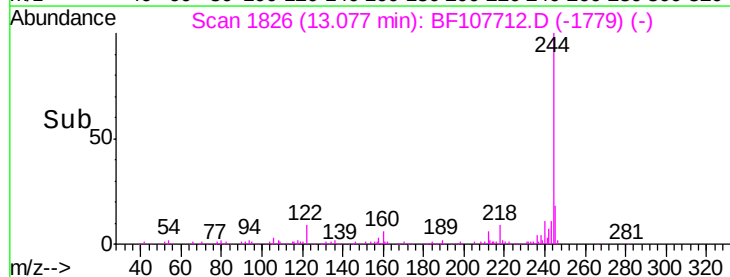
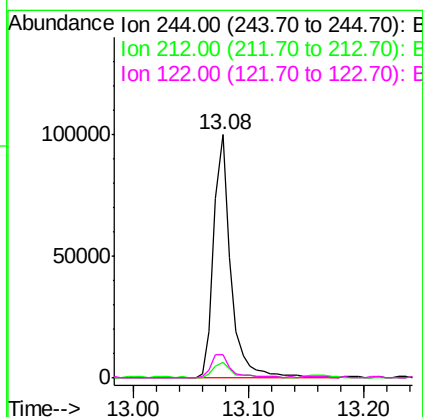
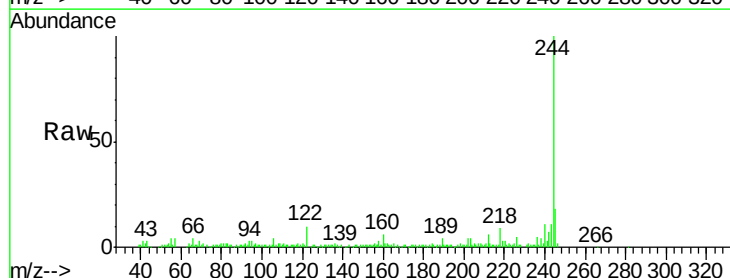
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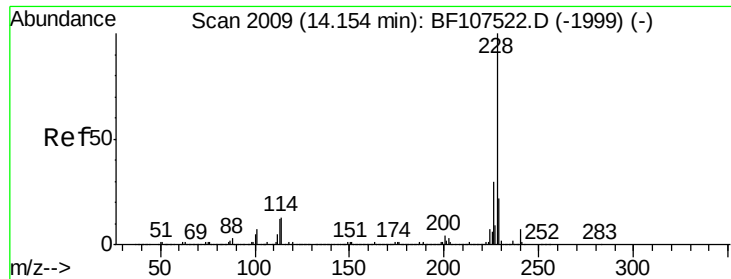
Sohil
 7/27/2018 2:54:00 PM



#78
 Terphenyl-d14
 Concen: 6.156 ng
 RT: 13.08 min Scan# 1826
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.3	5.4	8.0
122	9.6	11.0	16.4#





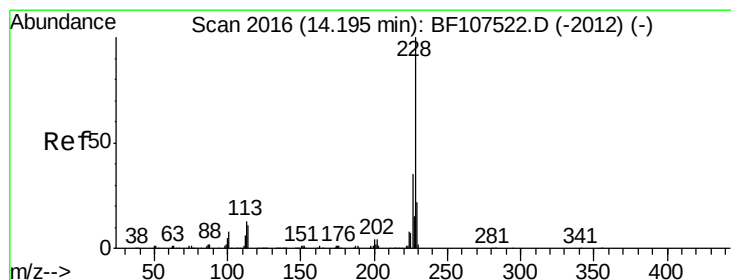
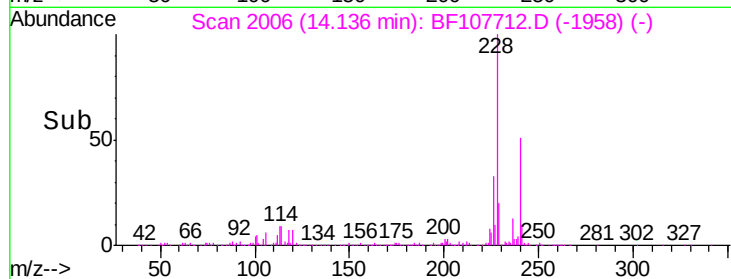
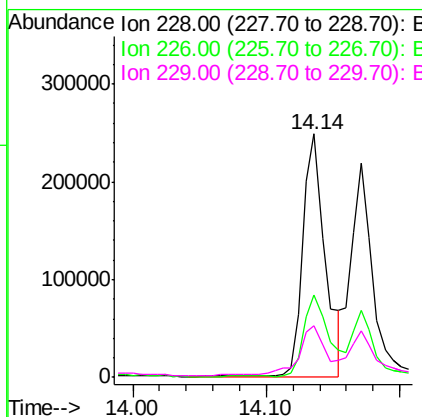
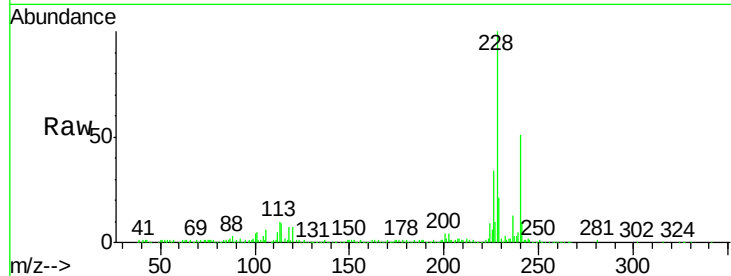
#80
Benzo(a)anthracene
Concen: 11.261 ng
RT: 14.14 min Scan# 2006
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.7	22.6	33.8
229	21.2	15.8	23.6

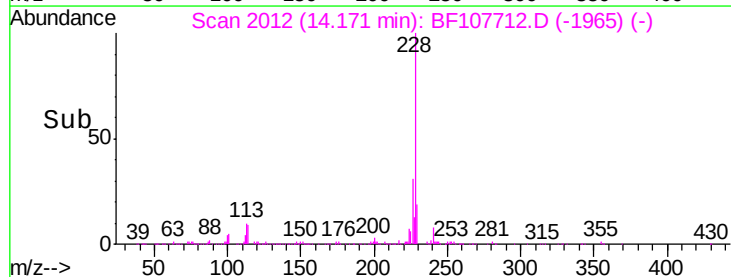
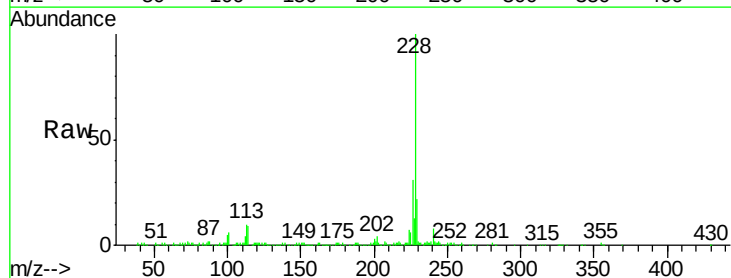
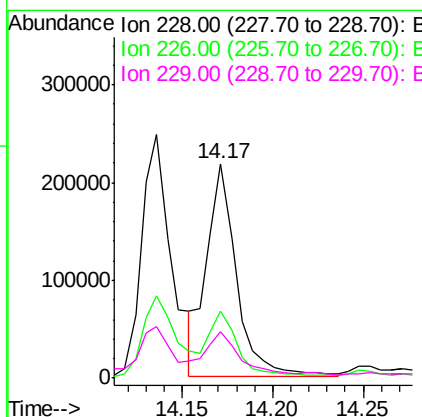
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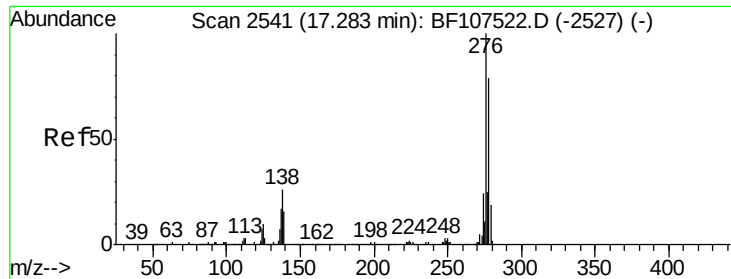
Sohil
7/27/2018 2:54:00 PM



#82
Chrysene
Concen: 10.287 ng
RT: 14.17 min Scan# 2012
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.0	37.6
229	21.7	16.2	24.4





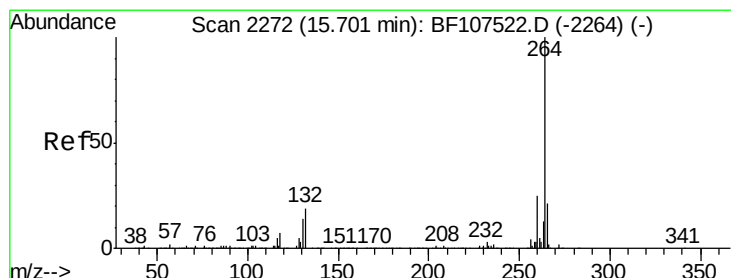
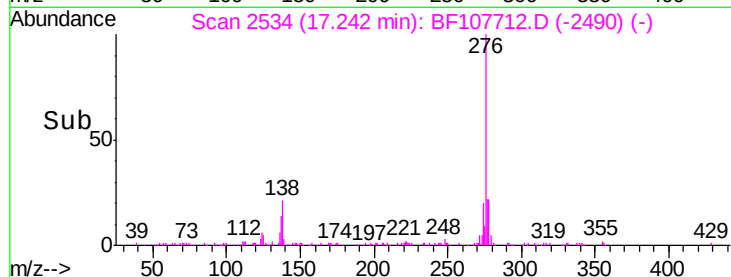
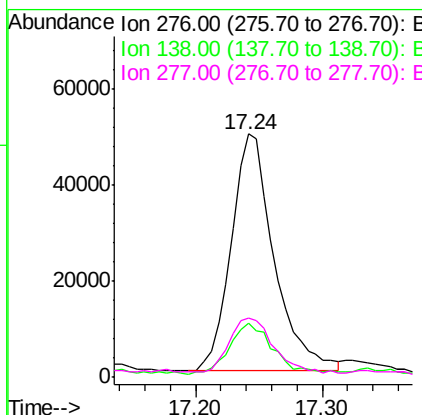
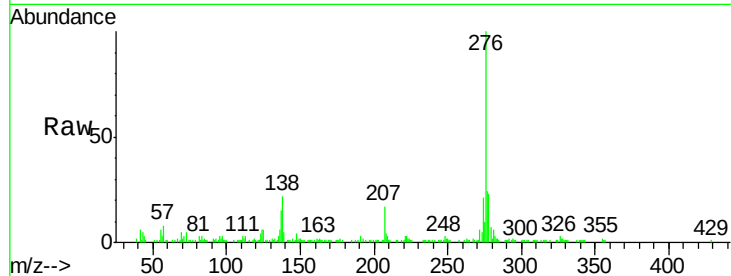
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.593 ng
 RT: 17.24 min Scan# 2534
 Delta R.T. -0.04 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.4	25.0	37.6#
277	24.0	20.1	30.1

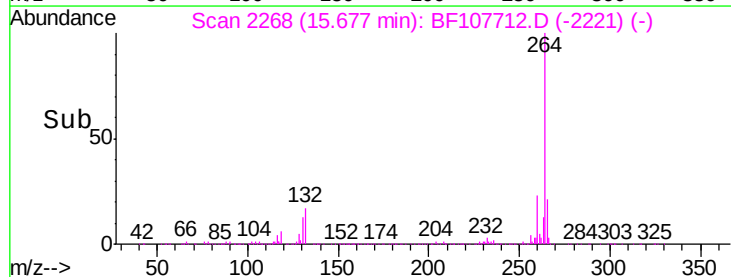
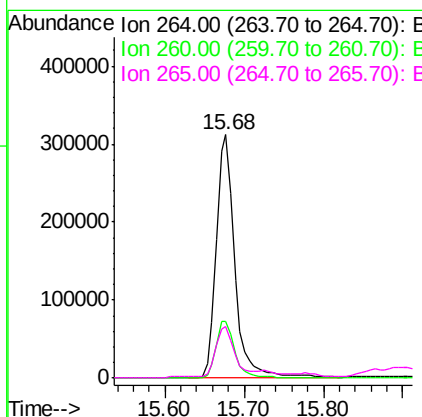
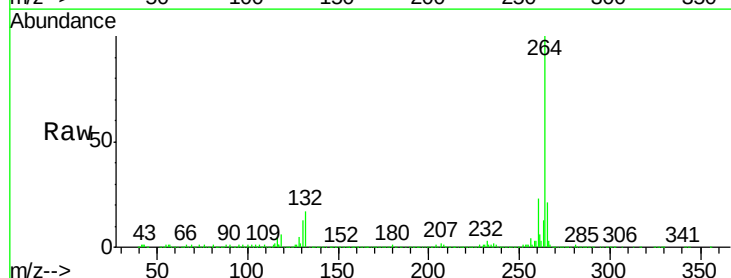
Manual Integrations
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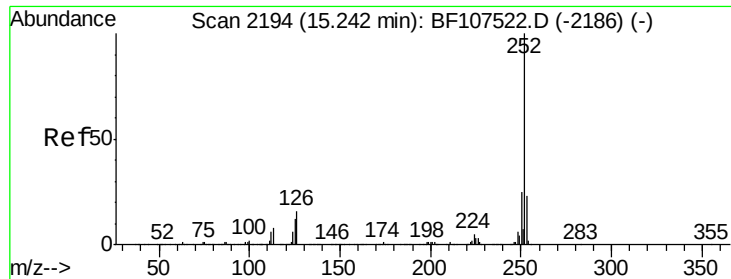
Sohil
 7/27/2018 2:54:00 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.68 min Scan# 2268
 Delta R.T. -0.02 min
 Lab File: BF107712.D
 Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	21.3	17.5	26.3





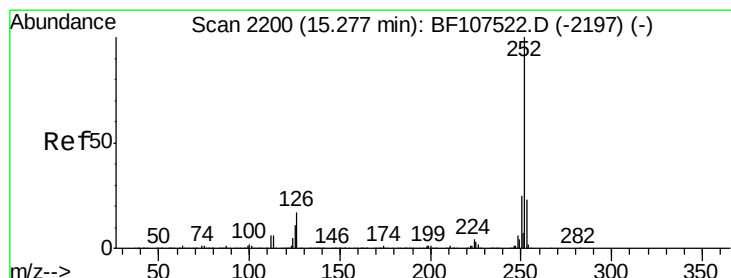
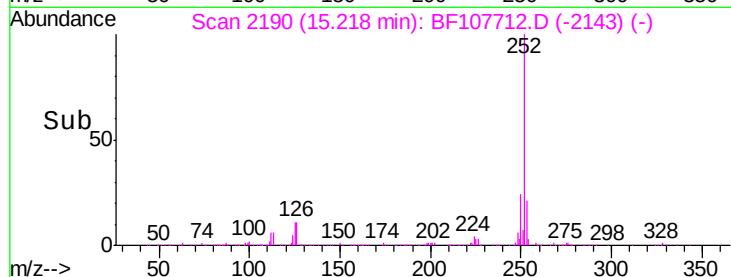
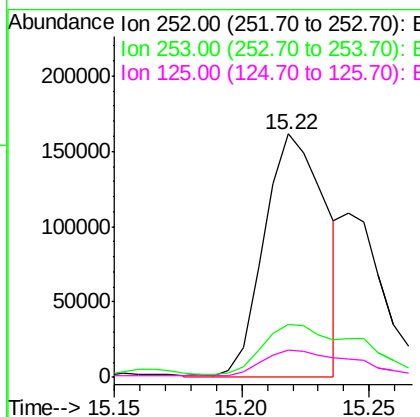
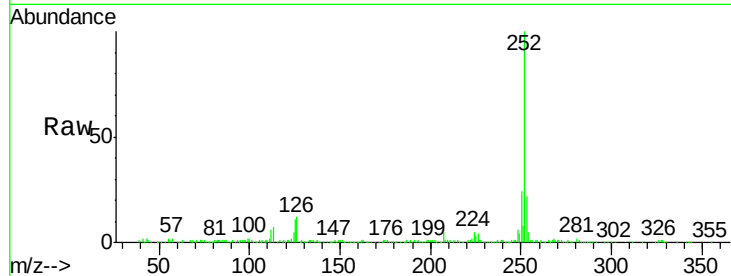
#87
Benzo(b)fluoranthene
Concen: 9.917 ng m
RT: 15.22 min Scan# 2190
Delta R.T. -0.02 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.0	25.6
125	11.1	9.0	13.6

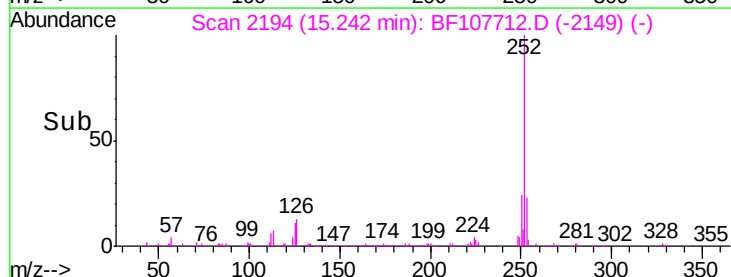
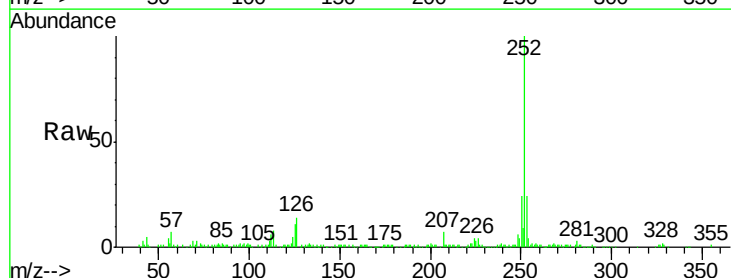
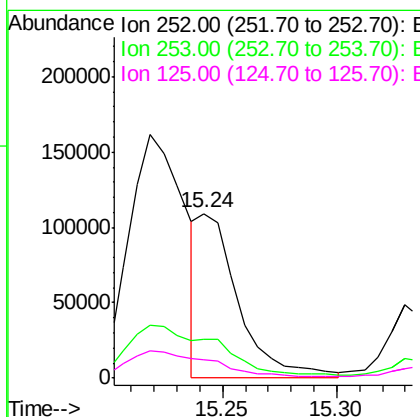
Manual Integrations
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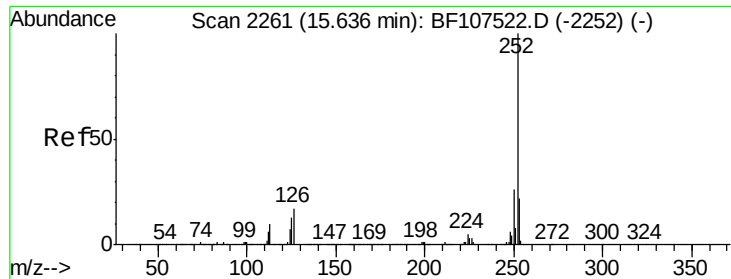
Sohil
7/27/2018 2:54:00 PM



#88
Benzo(k)fluoranthene
Concen: 4.987 ng m
RT: 15.24 min Scan# 2194
Delta R.T. -0.04 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	11.4	10.2	15.2





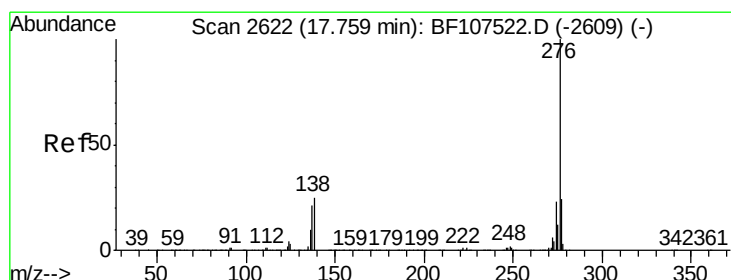
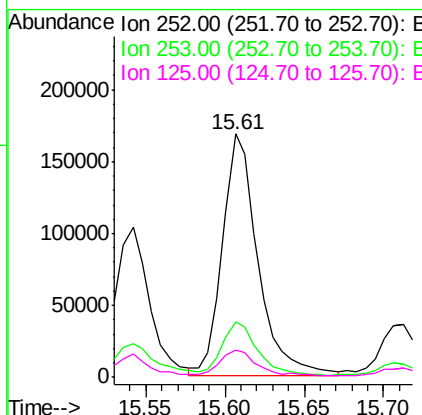
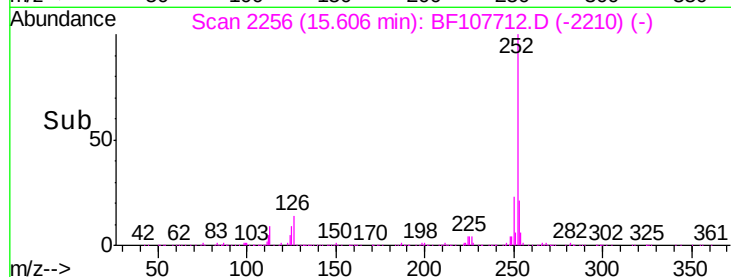
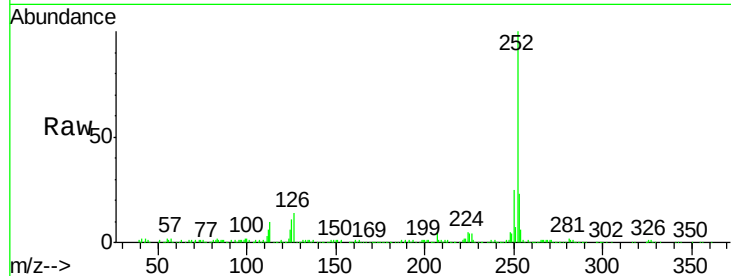
#89
Benzo(a)pyrene
Concen: 10.377 ng
RT: 15.61 min Scan# 2256
Delta R.T. -0.03 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Instrument :
BNA_F
ClientSampleId :
SB-12(3-5)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	11.0	9.8	14.6

Manual Integrations
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7/27/2018 2:54:00 PM



#91
Benzo(g,h,i)perylene
Concen: 4.994 ng m
RT: 17.72 min Scan# 2616
Delta R.T. -0.04 min
Lab File: BF107712.D
Acq: 26 Jul 2018 20:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	17.9	26.9
138	20.8	21.8	32.8#

