

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071718\
 Data File : BF107446.D
 Acq On : 17 Jul 2018 13:48
 Operator : JU/SJ
 Sample : J3829-01 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-071318-A

Manual Integrations
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 7/18/2018 10:45:54 AM

Quant Time: Jul 18 09:28:43 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 17 11:29:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	135272	20.00	ng	0.00
21) Naphthalene-d8	8.27	136	540805	20.00	ng	0.00
38) Acenaphthene-d10	10.03	164	284398	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	569768	20.00	ng	0.00
75) Chrysene-d12	14.18	240	370970	20.00	ng	0.00
86) Perylene-d12	15.72	264	342026	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	317877	35.69	ng	0.00
7) Phenol-d6	6.60	99	422561	36.69	ng	0.00
23) Nitrobenzene-d5	7.54	82	287184	28.32	ng	-0.01
41) 2,4,6-Tribromophenol	10.82	330	89495	35.82	ng	0.00
44) 2-Fluorobiphenyl	9.34	172	500455	21.20	ng	0.00
78) Terphenyl-d14	13.11	244	490058	32.82	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.29	128	151526	5.768	ng	99
37) 2-Methylnaphthalene	8.98	142	77203	4.459	ng	# 87
48) Acenaphthylene	9.89	152	196315	7.243	ng	100
49) Dimethylphthalate	9.73	163	98638	4.365	ng	97
51) Acenaphthene	10.06	154	81560	4.539	ng	97
54) Dibenzofuran	10.23	168	111358	4.011	ng	97
57) Fluorene	10.58	166	189889	10.327	ng	99
70) Phenanthrene	11.55	178	1128335	39.737	ng	98
71) Anthracene	11.59	178	424120	14.996	ng	99
72) Carbazole	11.75	167	74795	2.793	ng	98
74) Fluoranthene	12.75	202	2014325	62.415	ng	93
77) Pyrene	12.98	202	1859298	73.704	ng	98
80) Benzo(a)anthracene	14.17	228	1109575m	48.884	ng	
82) Chrysene	14.21	228	950289	43.828	ng	97
85) Indeno(1,2,3-cd)pyrene	17.31	276	403687	26.156	ng	# 85
87) Benzo(b)fluoranthene	15.27	252	1273347m	63.606	ng	
88) Benzo(k)fluoranthene	15.29	252	391614m	20.045	ng	
89) Benzo(a)pyrene	15.66	252	866228m	47.143	ng	
90) Dibenzo(a,h)anthracene	17.31	278	111346m	8.029	ng	
91) Benzo(a,h,i)perylene	17.79	276	374175	26.554	ng	# 85

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

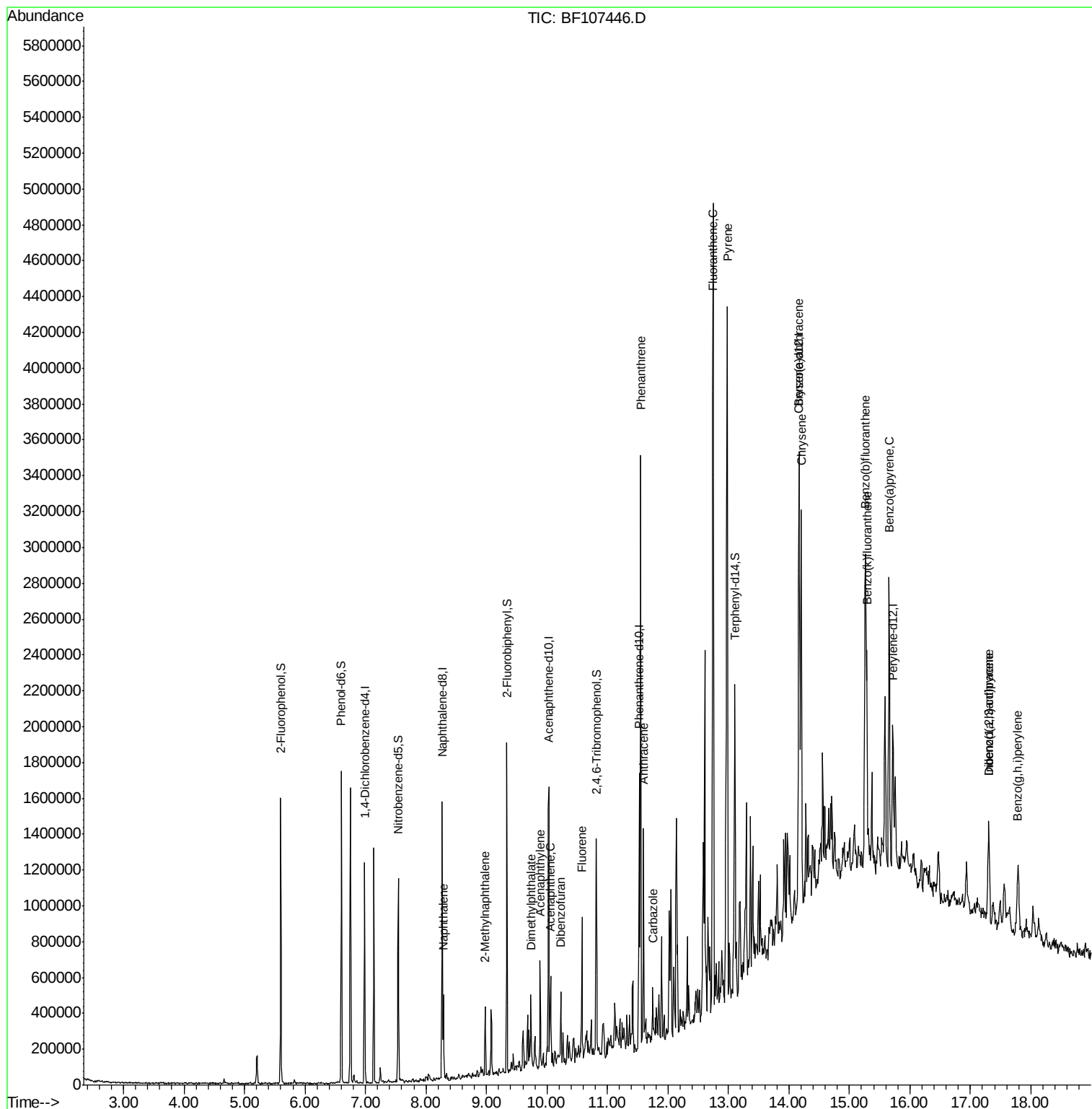
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071718\
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ALS Vial : 11 Sample Multiplier: 1

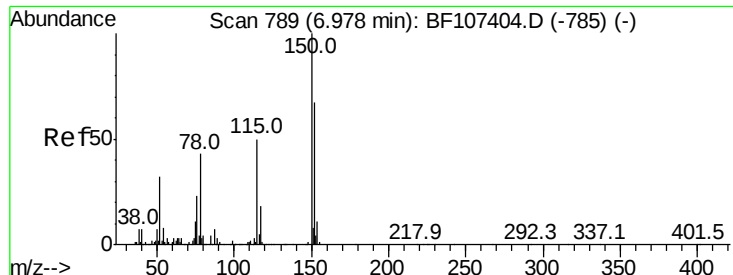
Instrument :
BNA_F
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PL-01-071318-A

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.98 min Scan# 790

Delta R.T. 0.00 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

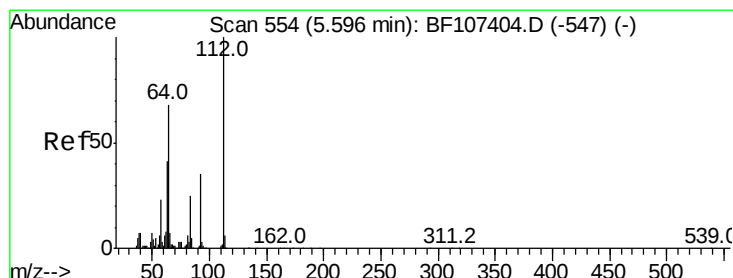
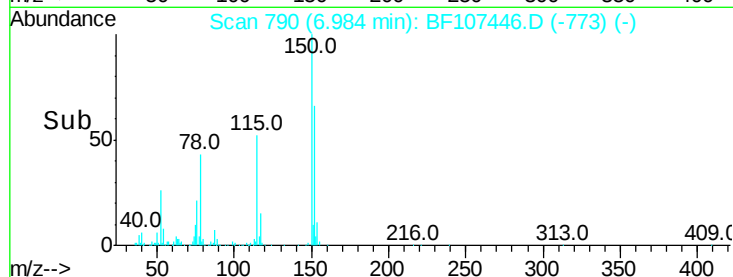
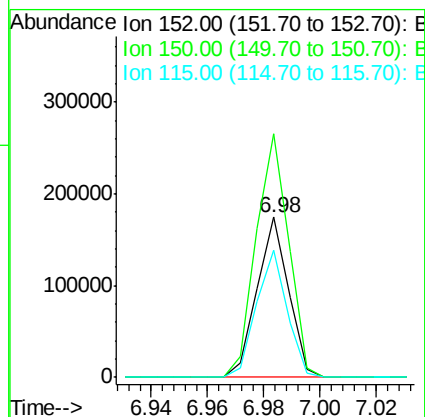
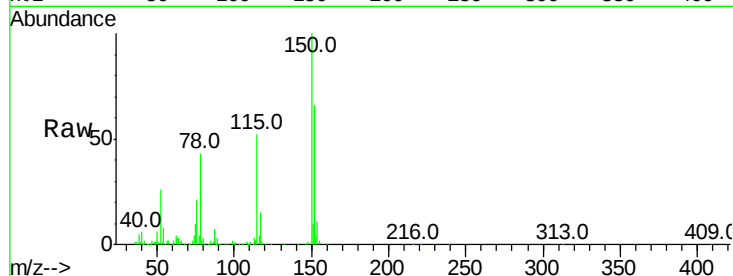
ClientSampleId :

PL-01-071318-A

Tot Ion:	152	Resp:	135272
Ion Ratio	Lower	Upper	
152	100		
150	151.9	124.6	186.8
115	79.1	50.1	75.1#

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#5

2-Fluorophenol

Concen: 35.689 ng

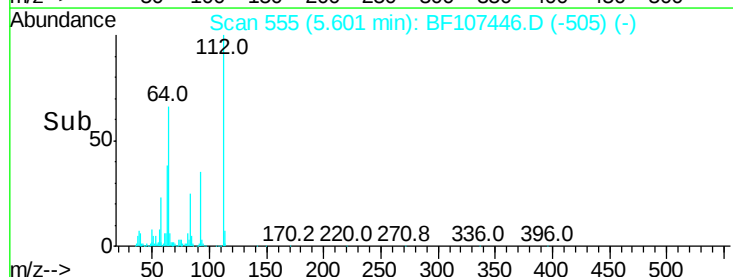
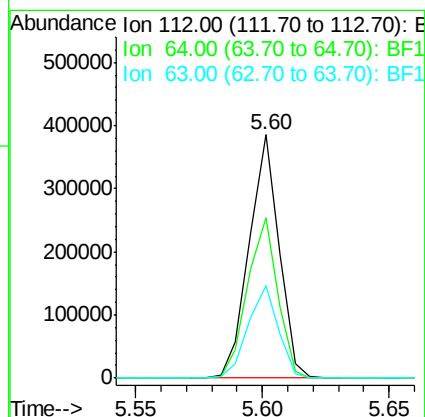
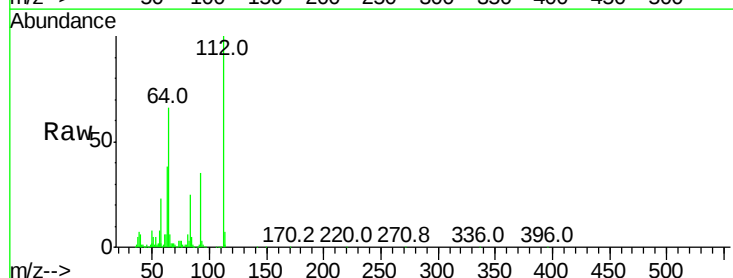
RT: 5.60 min Scan# 555

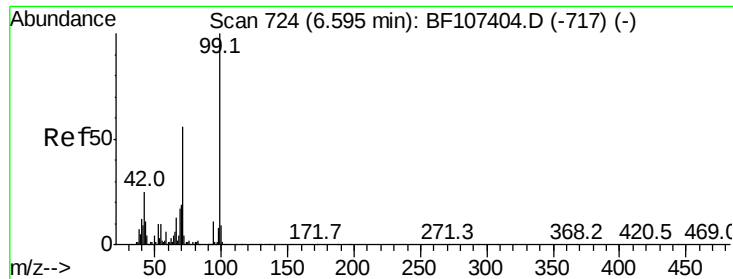
Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion:	112	Resp:	317877
Ion Ratio	Lower	Upper	
112	100		
64	66.1	47.9	71.9
63	38.1	23.7	35.5#





#7

Phenol-d6

Concen: 36.695 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

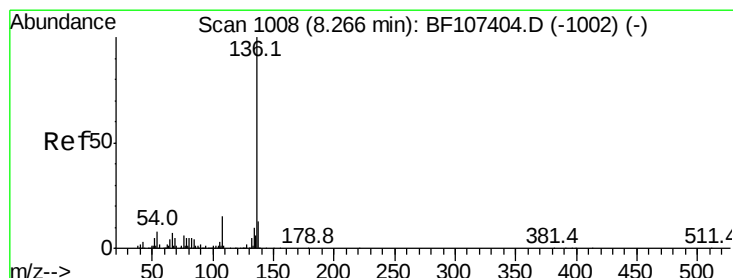
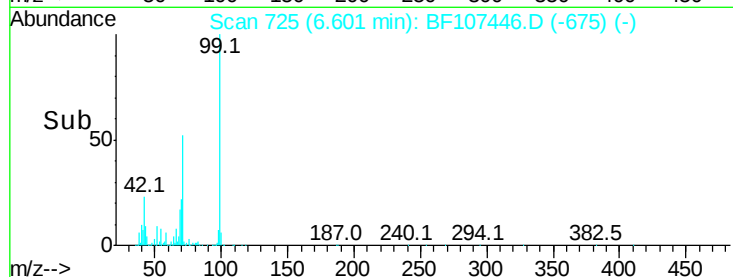
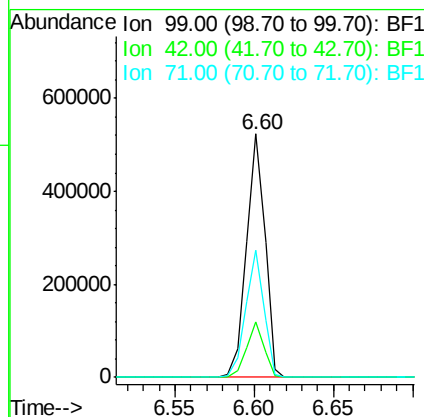
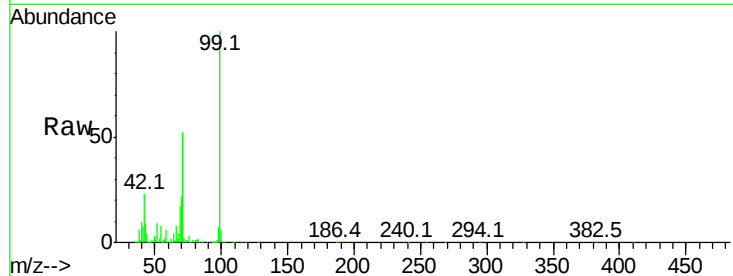
ClientSampleId :

PL-01-071318-A

Tot Ion	Ratio	Resp	Lower	Upper
99	100	422561		
42	22.8	14.5	21.7#	
71	52.1	25.4	38.0#	

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#21

Naphthalene-d8

Concen: 20.000 ng

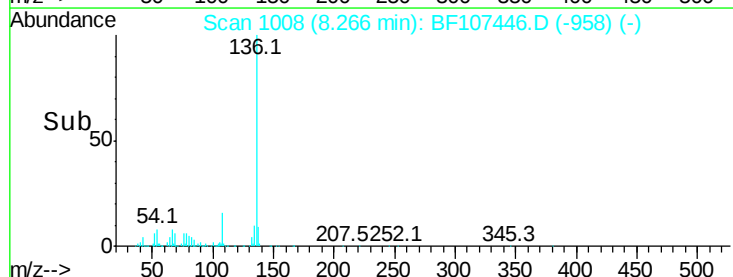
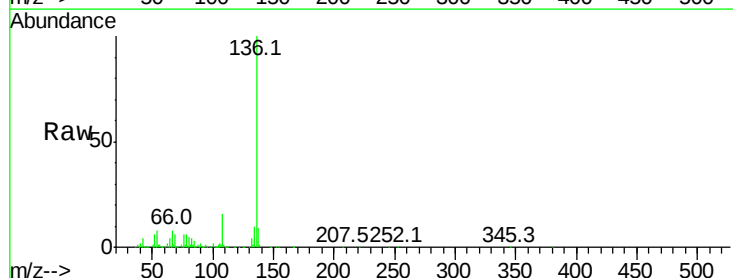
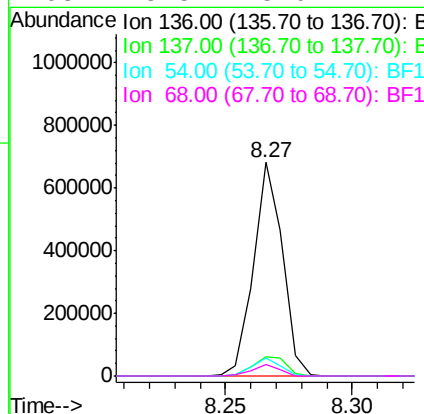
RT: 8.27 min Scan# 1008

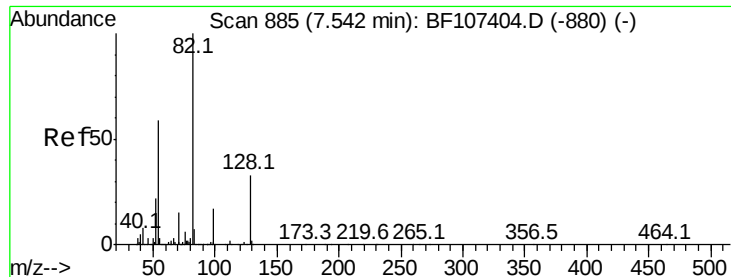
Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	540805		
137	9.2	8.9	13.3	
54	8.2	6.6	9.8	
68	5.5	5.0	7.4	





#23

Nitrobenzene-d5

Concen: 28.317 ng

RT: 7.54 min Scan# 885

Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

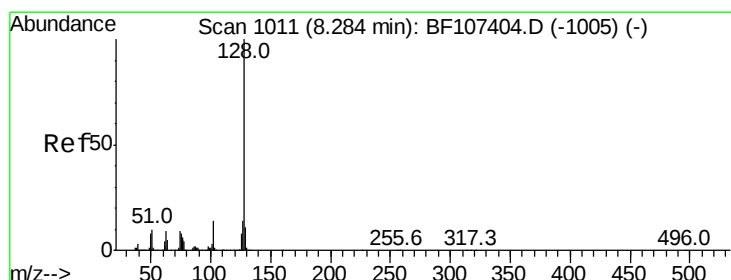
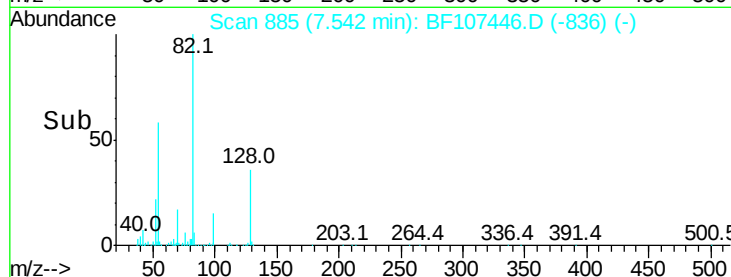
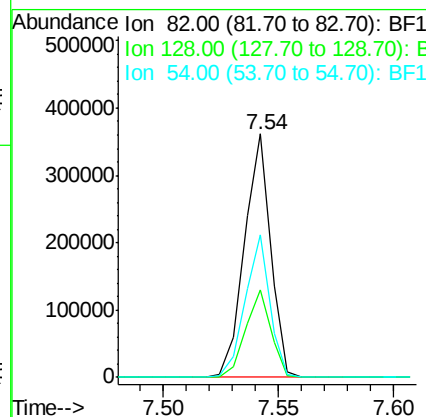
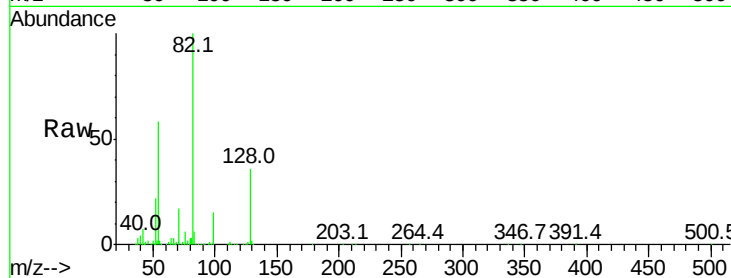
ClientSampleId :

PL-01-071318-A

Tot Ion:	82	Resp:	287184
Ion Ratio	Lower	Upper	
82	100		
128	36.1	36.1	54.1#
54	58.3	41.4	62.2

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#31

Naphthalene

Concen: 5.768 ng

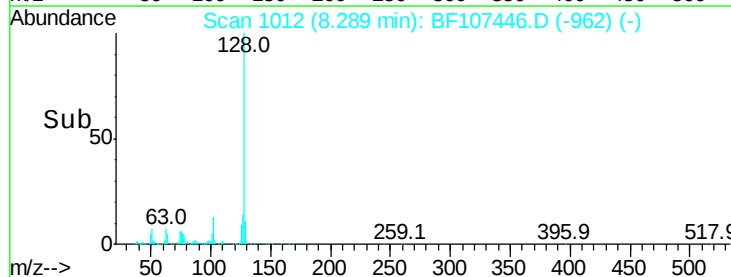
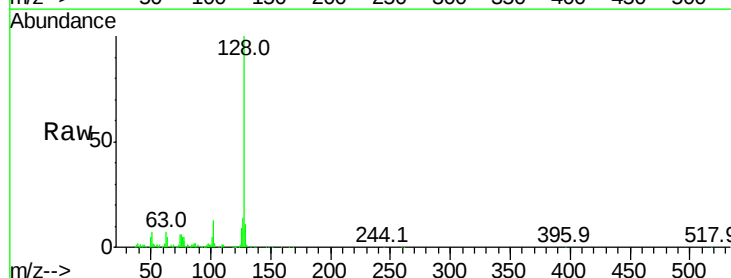
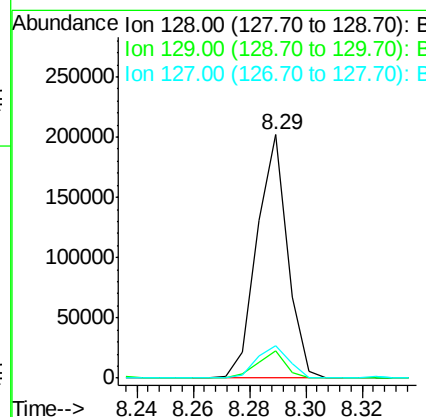
RT: 8.29 min Scan# 1012

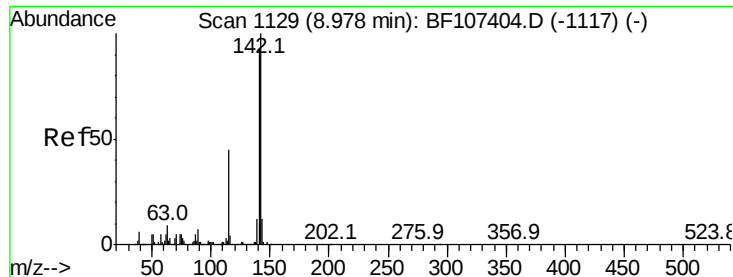
Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion:	128	Resp:	151526
Ion Ratio	Lower	Upper	
128	100		
129	11.5	8.8	13.2
127	13.5	10.9	16.3





#37

2-Methylnaphthalene

Concen: 4.459 ng

RT: 8.98 min Scan# 1129

Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

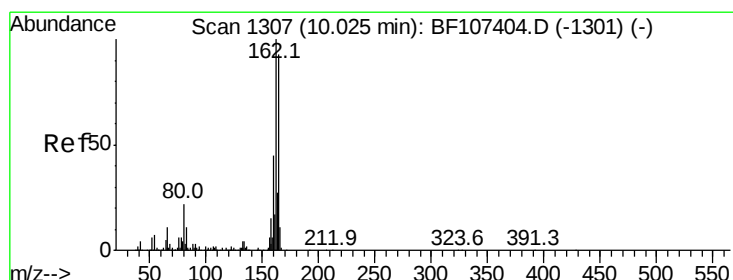
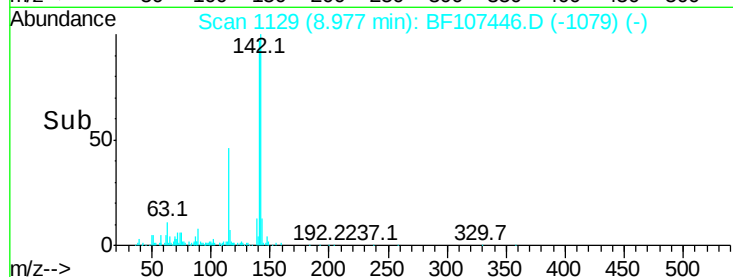
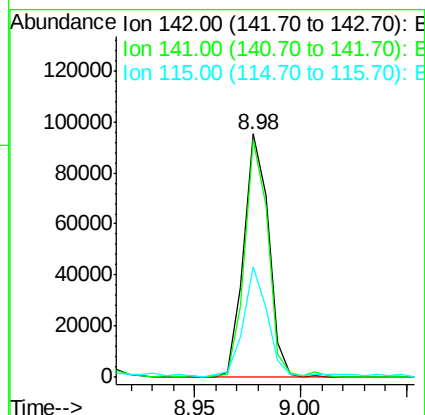
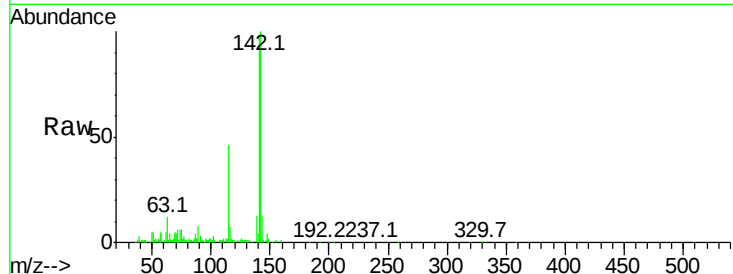
ClientSampleId :

PL-01-071318-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	97.4	70.8	106.2
115	45.6	26.1	39.1#

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#38

Acenaphthene-d10

Concen: 20.000 ng

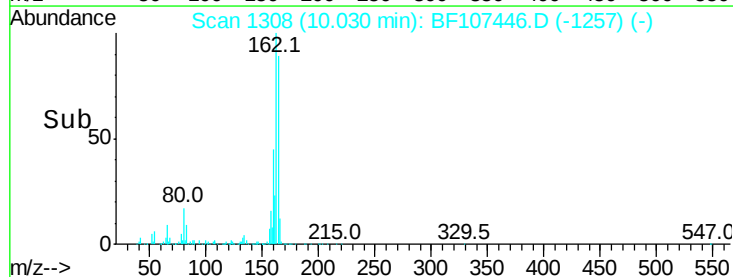
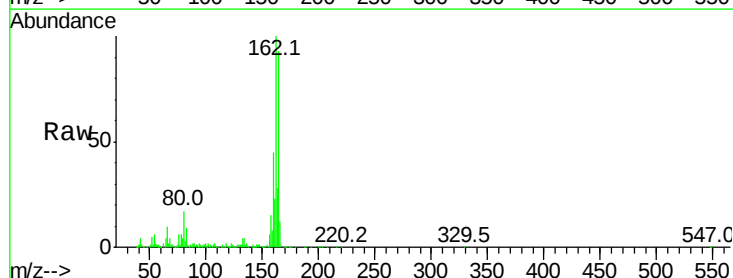
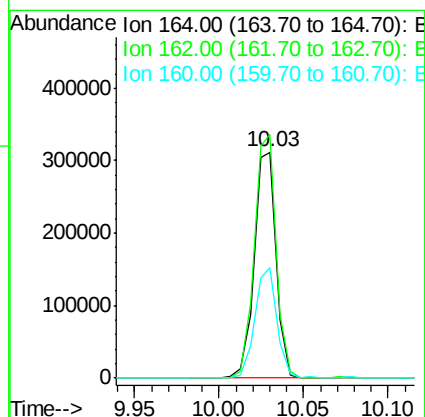
RT: 10.03 min Scan# 1308

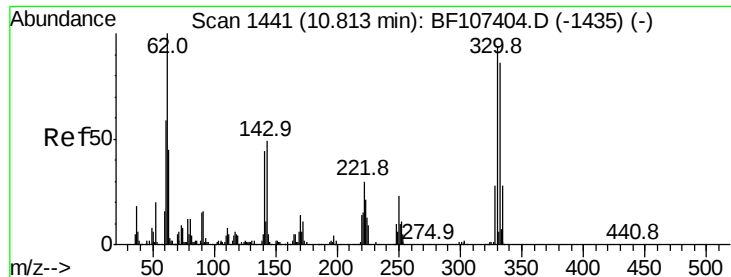
Delta R.T. -0.00 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.7	86.1	129.1
160	48.8	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 35.816 ng

RT: 10.82 min Scan# 1442

Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

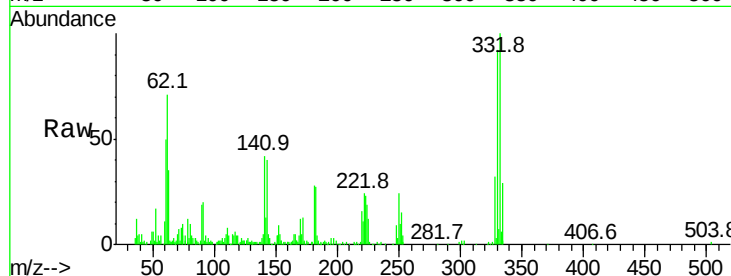
ClientSampleId :

PL-01-071318-A

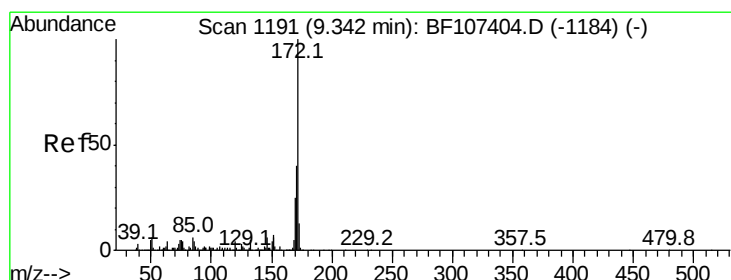
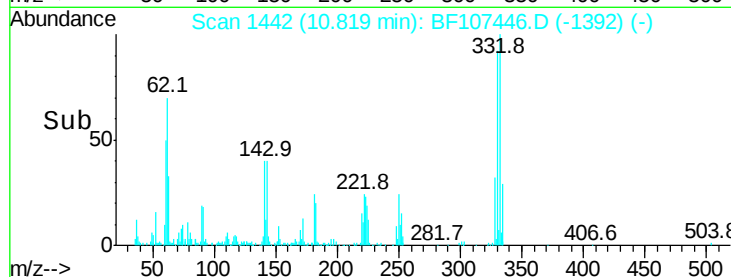
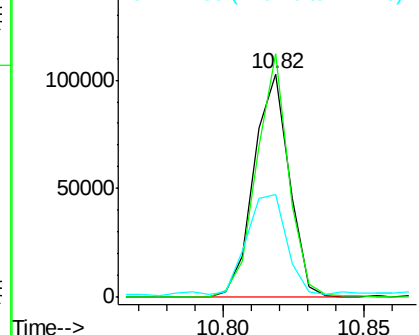
Tot Ion:	330	Resp:	89495
Ion Ratio	Lower	Upper	
330	100		
332	99.6	77.0	115.6
141	53.6	29.9	44.9#

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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



#44

2-Fluorobiphenyl

Concen: 21.205 ng

RT: 9.34 min Scan# 1191

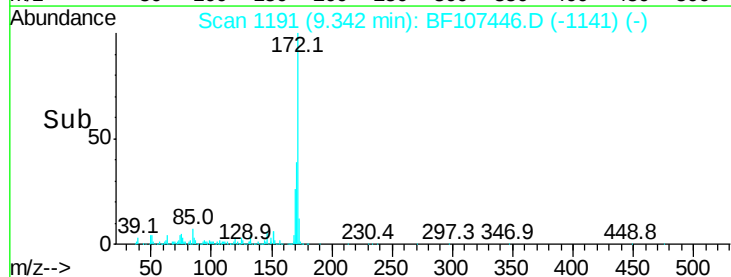
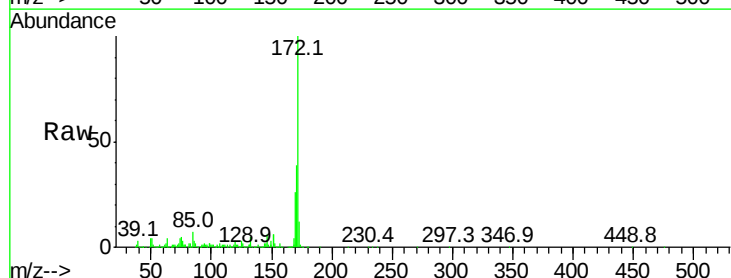
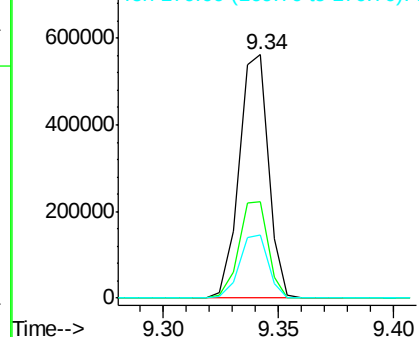
Delta R.T. -0.01 min

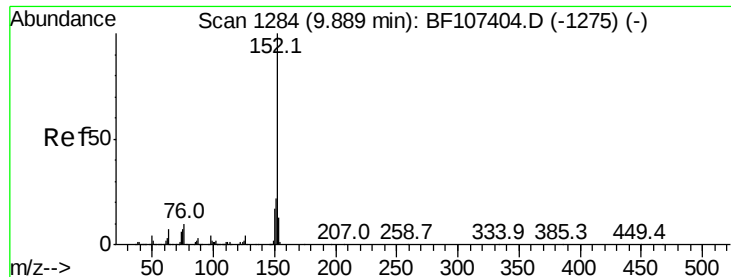
Lab File: BF107446.D

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Tgt Ion:	172	Resp:	500455
Ion Ratio	Lower	Upper	
172	100		
171	39.4	29.7	44.5
170	25.7	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





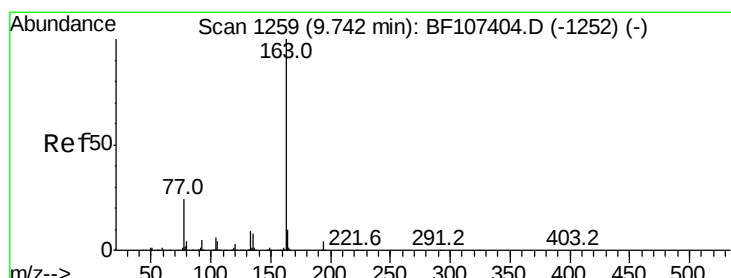
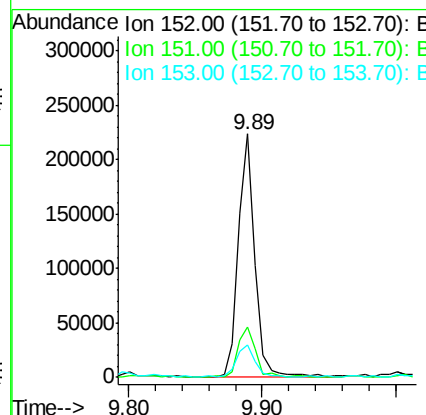
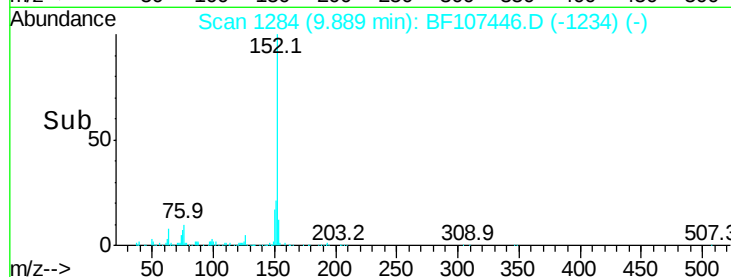
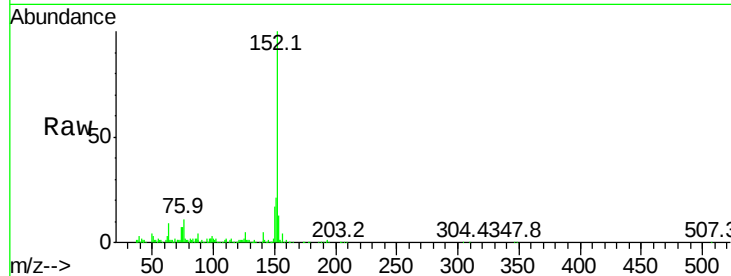
#48
Acenaphthylene
Concen: 7.243 ng
RT: 9.89 min Scan# 1284
Delta R.T. -0.01 min
Lab File: BF107446.D
Acq: 17 Jul 2018 13:48

Instrument :
BNA_F
ClientSampleId :
PL-01-071318-A

Tot Ion	Ratio	Resp Lower	Upper
152	100		
151	20.7	16.3	24.5
153	13.4	10.7	16.1

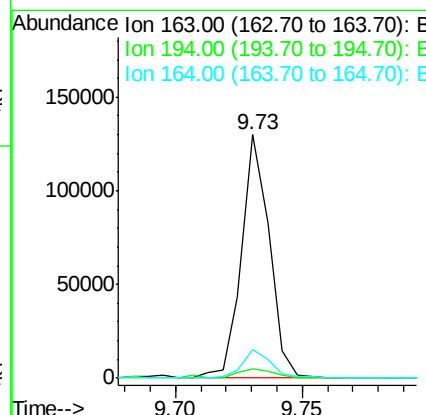
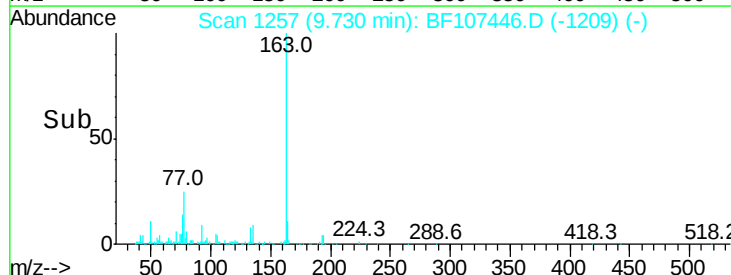
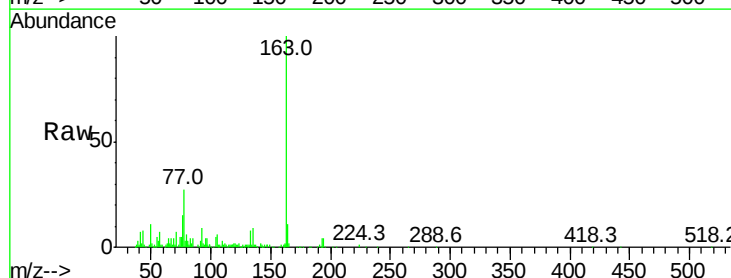
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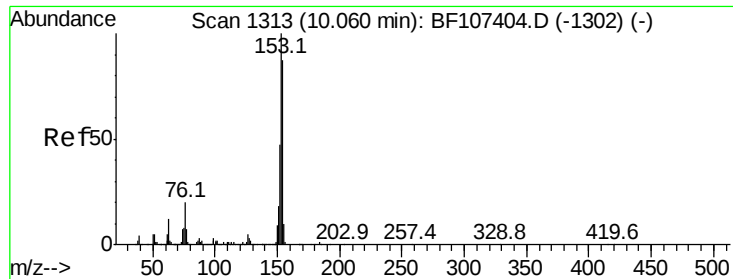
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#49
Dimethylphthalate
Concen: 4.365 ng
RT: 9.73 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF107446.D
Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	3.7	2.7	4.1
164	11.5	8.2	12.2





#51

Acenaphthene

Concen: 4.539 ng

RT: 10.06 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

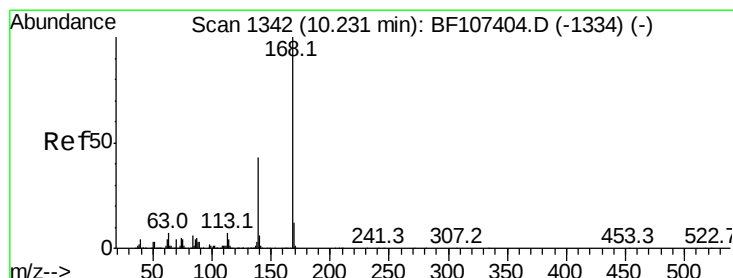
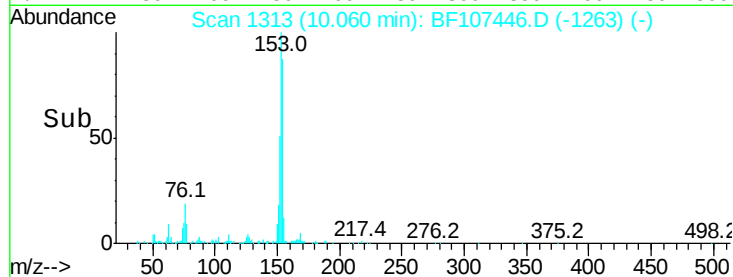
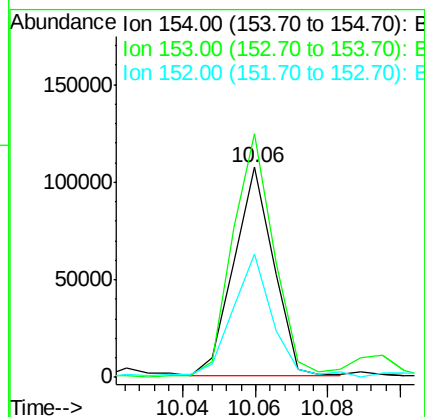
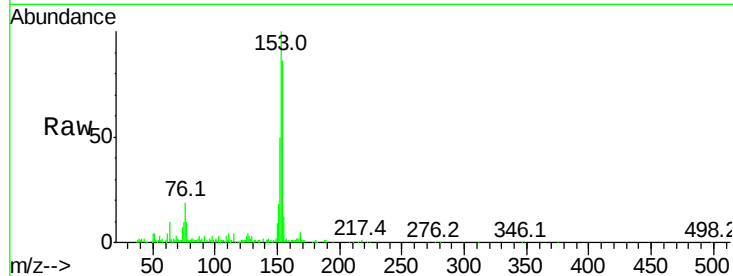
ClientSampleId :

PL-01-071318-A

Tot Ion:	154	Resp:	81560
Ion Ratio	Lower	Upper	
154	100		
153	116.1	91.2	136.8
152	58.5	43.8	65.8

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#54

Dibenzofuran

Concen: 4.011 ng

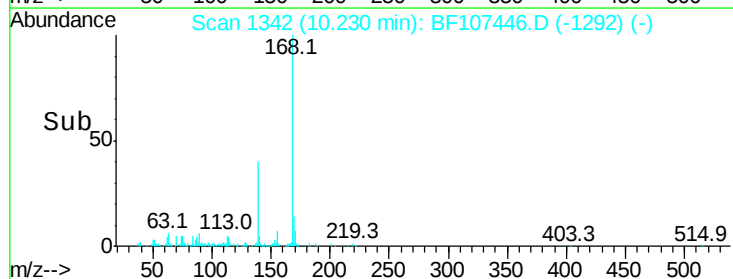
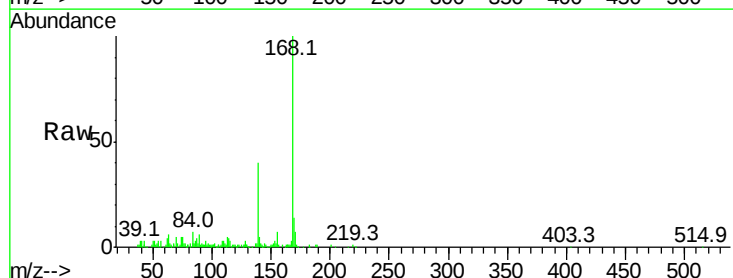
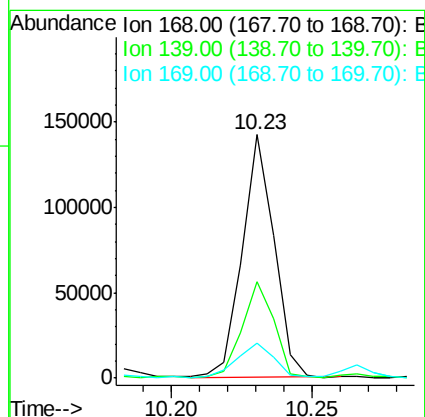
RT: 10.23 min Scan# 1342

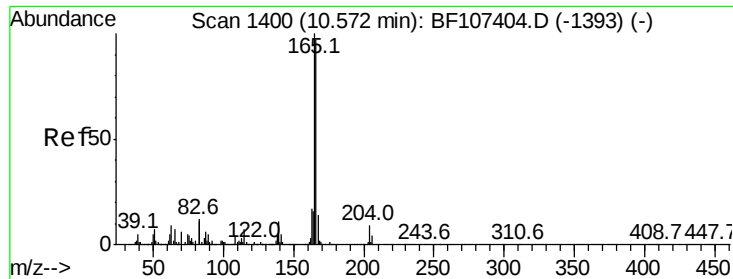
Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion:	168	Resp:	111358
Ion Ratio	Lower	Upper	
168	100		
139	39.8	30.1	45.1
169	14.5	10.9	16.3





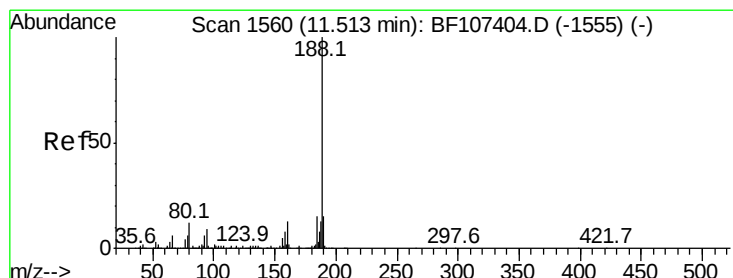
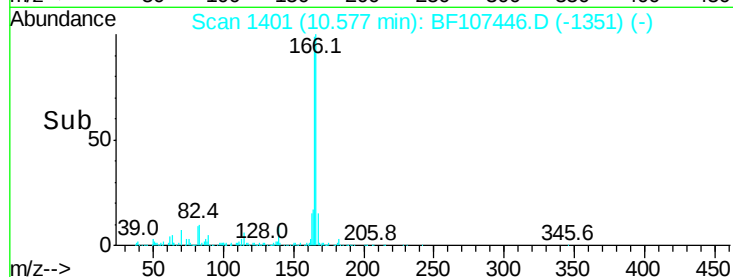
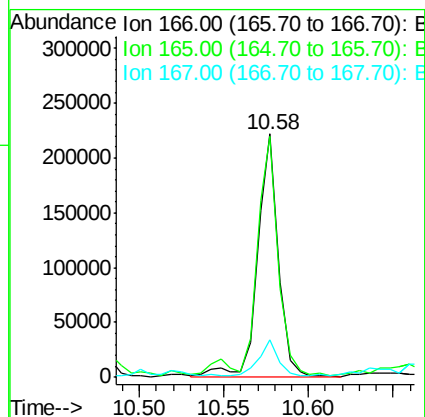
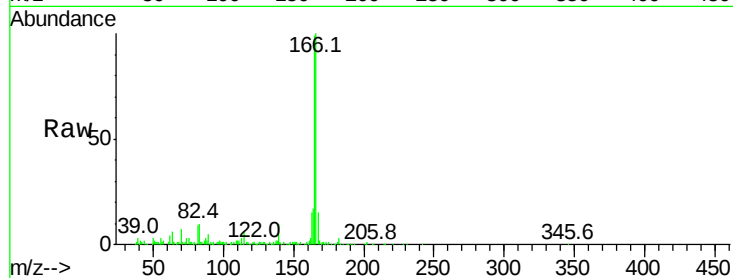
#57
Fluorene
 Concen: 10.327 ng
 RT: 10.58 min Scan# 1401
 Delta R.T. -0.01 min
 Lab File: BF107446.D
 Acq: 17 Jul 2018 13:48

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-071318-A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	189889		
165	99.0		79.8	119.8
167	15.4		10.6	16.0

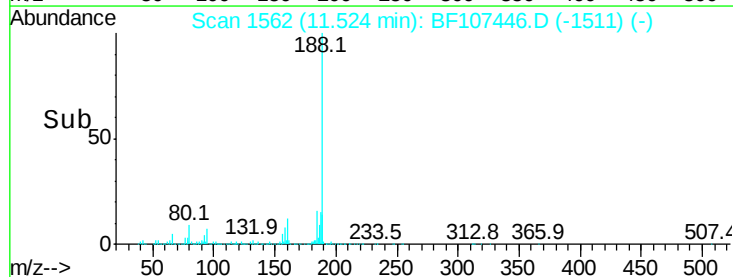
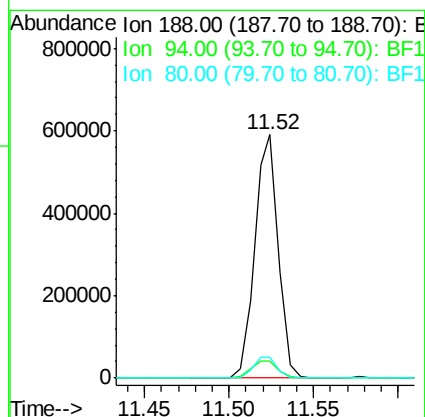
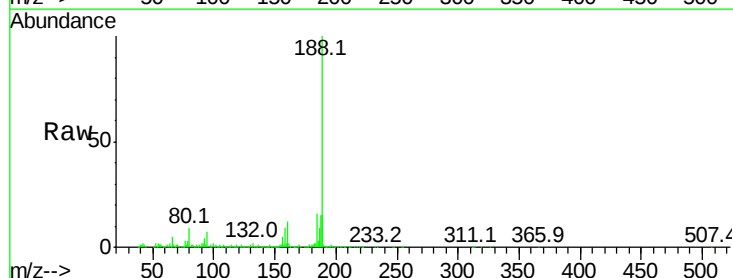
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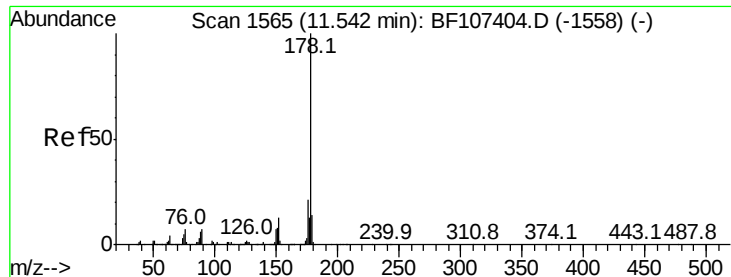
Sohil
 7/18/2018 10:45:54 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: BF107446.D
 Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	569768		
94	7.2		8.5	12.7#
80	8.7		9.2	13.8#





#70

Phenanthrene

Concen: 39.737 ng

RT: 11.55 min Scan# 1566

Delta R.T. -0.00 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

ClientSampleId :

PL-01-071318-A

Tot Ion:178 Resp: 1128335

Ion Ratio Lower Upper

178 100

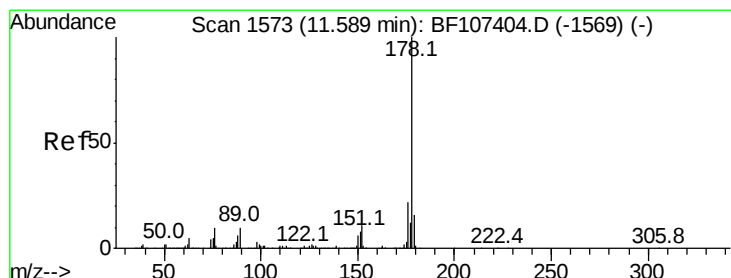
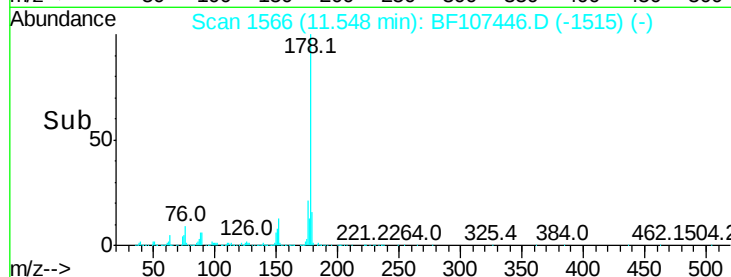
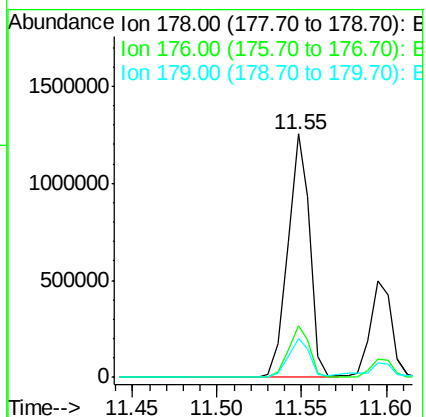
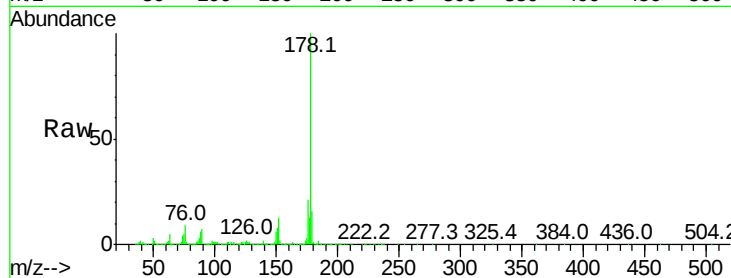
176 21.2 15.8 23.8

179 15.8 13.0 19.6

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#71

Anthracene

Concen: 14.996 ng

RT: 11.59 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

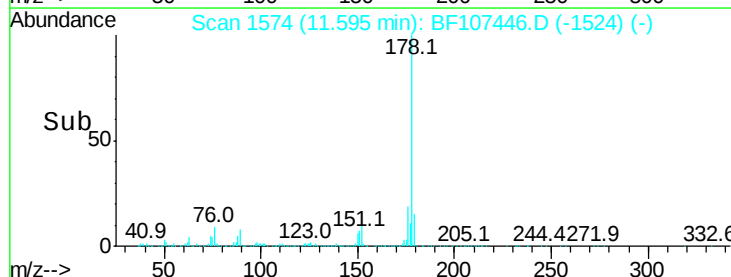
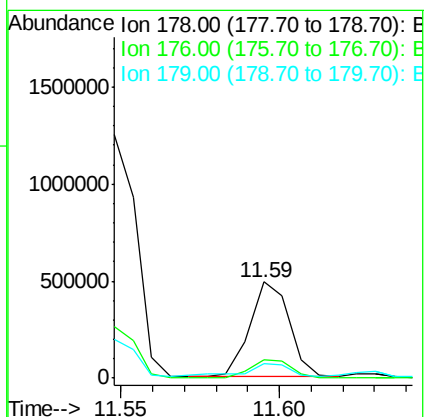
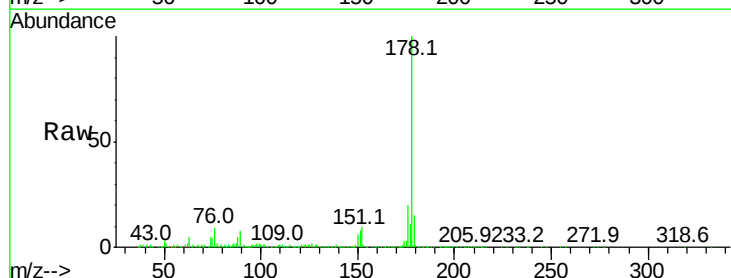
Tgt Ion:178 Resp: 424120

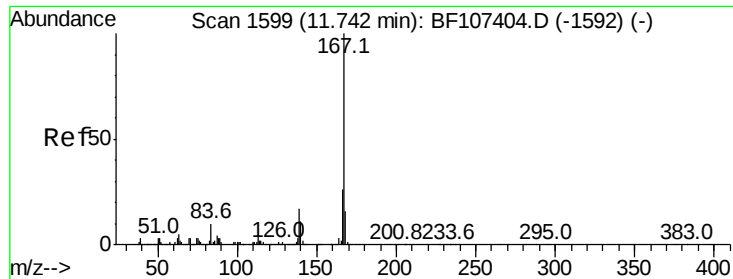
Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

179 15.3 12.6 19.0





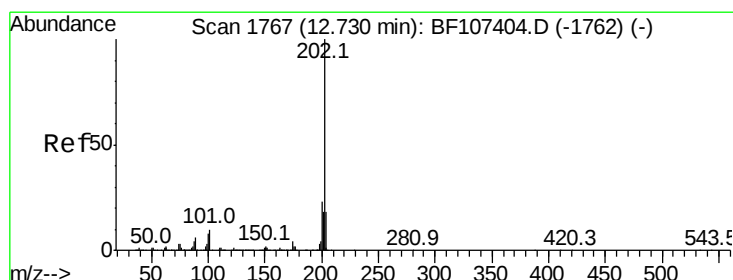
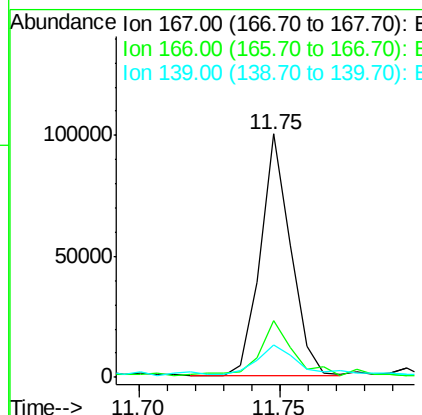
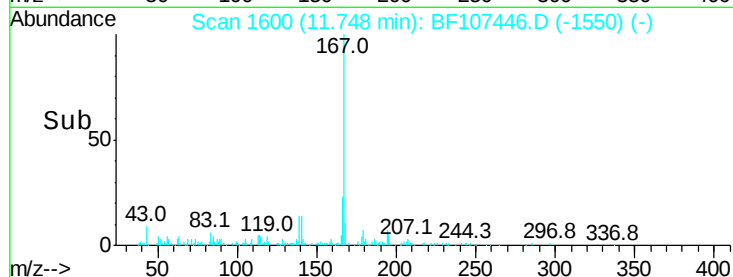
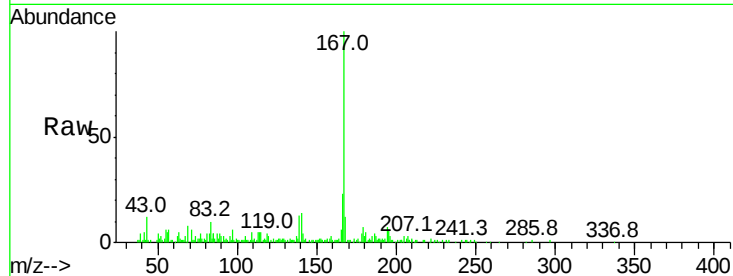
#72
 Carbazole
 Concen: 2.793 ng
 RT: 11.75 min Scan# 1600
 Delta R.T. -0.01 min
 Lab File: BF107446.D
 Acq: 17 Jul 2018 13:48

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-071318-A

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.5	17.6	26.4
139	13.4	10.9	16.3

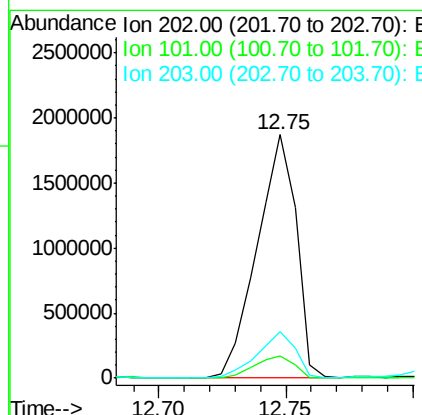
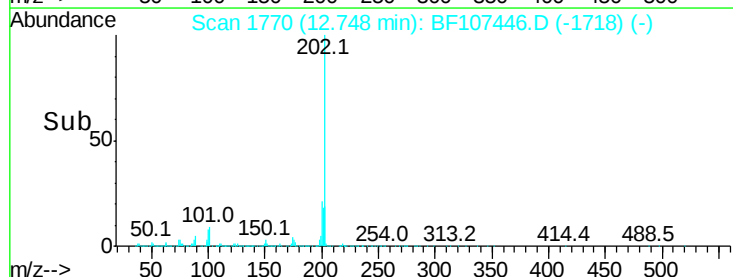
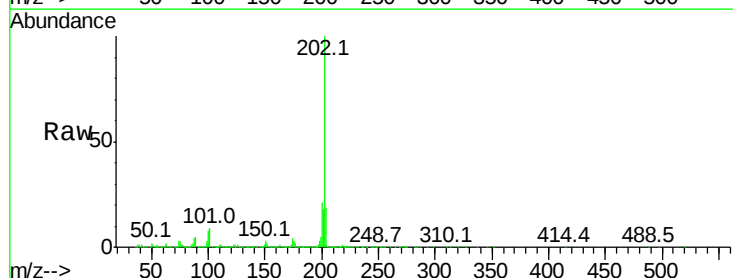
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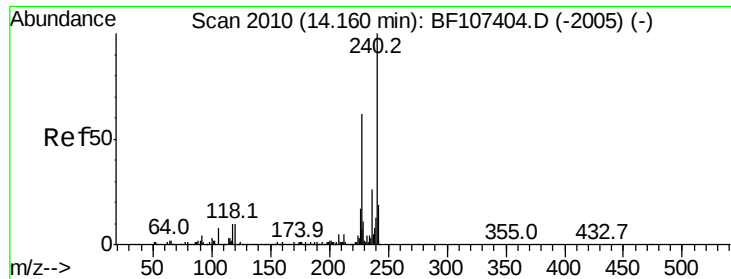
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#74
 Fluoranthene
 Concen: 62.415 ng
 RT: 12.75 min Scan# 1770
 Delta R.T. 0.01 min
 Lab File: BF107446.D
 Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.1	0.0	34.1
203	19.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.18 min Scan# 2013

Delta R.T. 0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

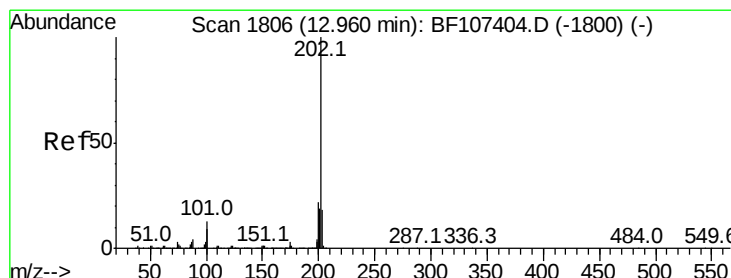
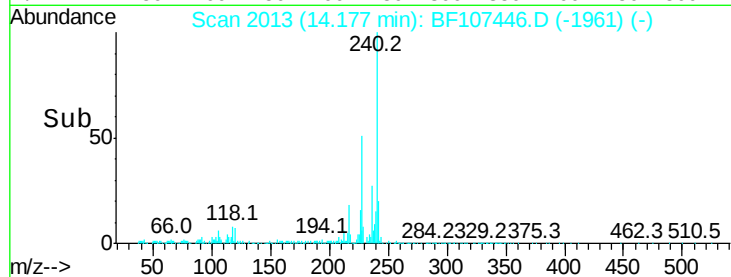
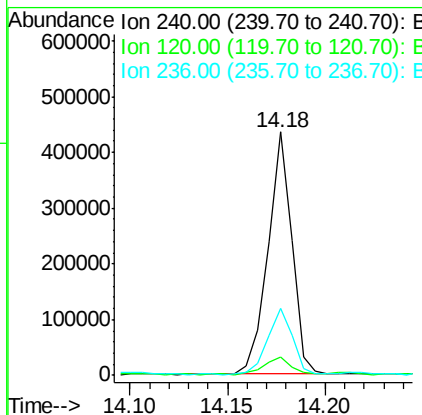
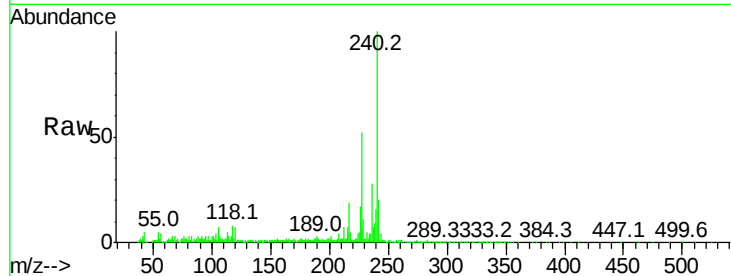
ClientSampleId :

PL-01-071318-A

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.4	9.5	14.3#
236	27.5	20.7	31.1

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#77

Pyrene

Concen: 73.704 ng

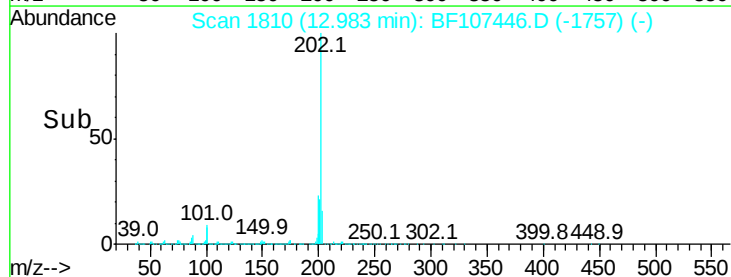
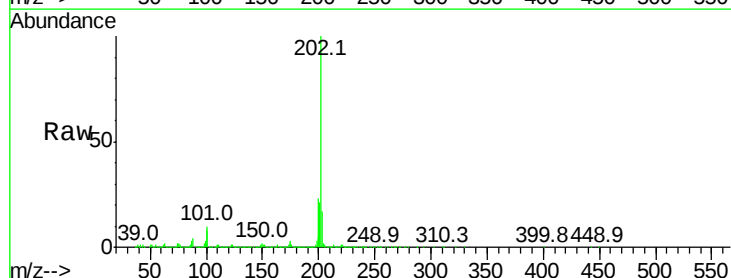
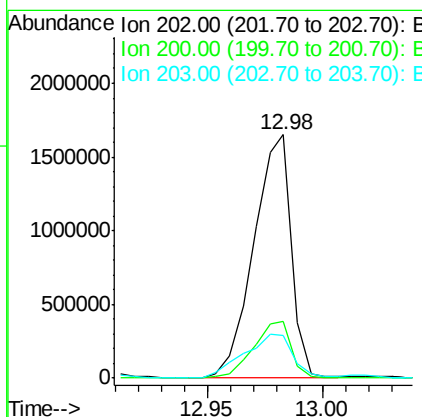
RT: 12.98 min Scan# 1810

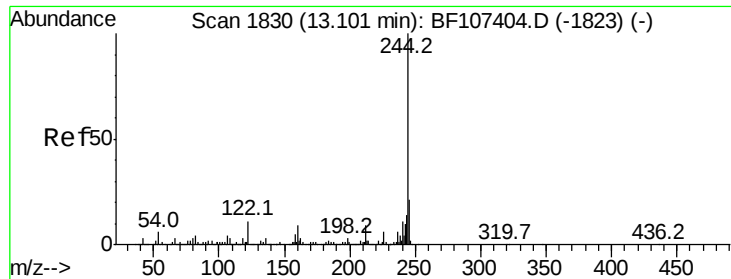
Delta R.T. 0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.4	17.4	26.2
203	17.4	14.3	21.5





#78

Terphenyl-d14

Concen: 32.822 ng

RT: 13.11 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

ClientSampleId :

PL-01-071318-A

Tot Ion:244 Resp: 490058

Ion Ratio Lower Upper

244 100

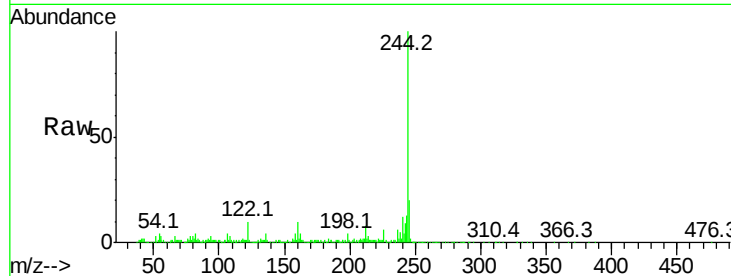
212 8.3 5.4 8.0#

122 9.8 11.0 16.4#

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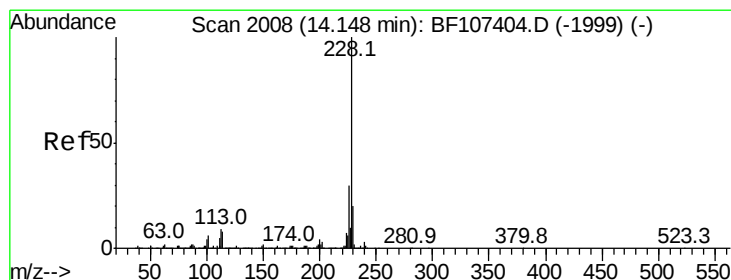
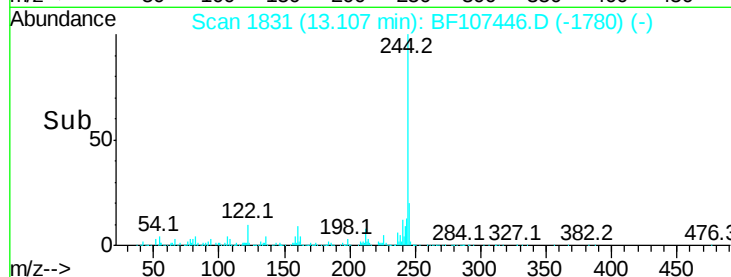
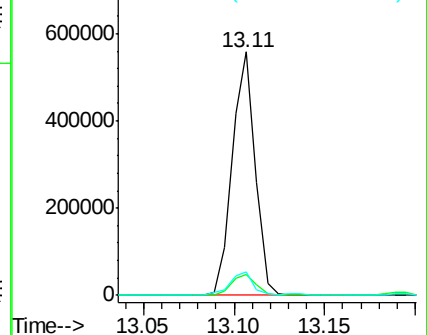
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 48.884 ng m

RT: 14.17 min Scan# 2011

Delta R.T. -0.00 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

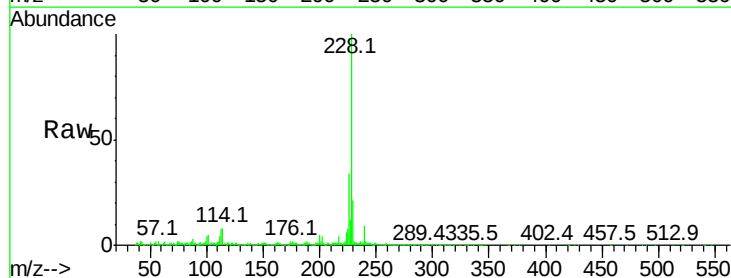
Tgt Ion:228 Resp: 1109575

Ion Ratio Lower Upper

228 100

226 34.1 22.6 33.8#

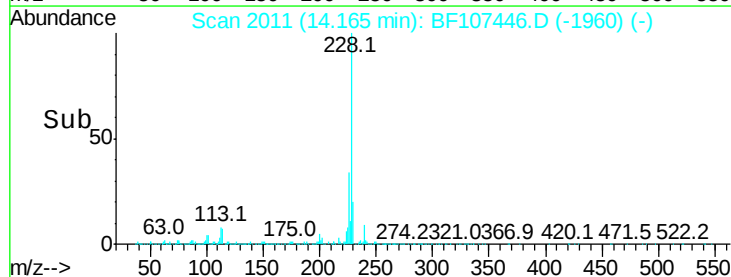
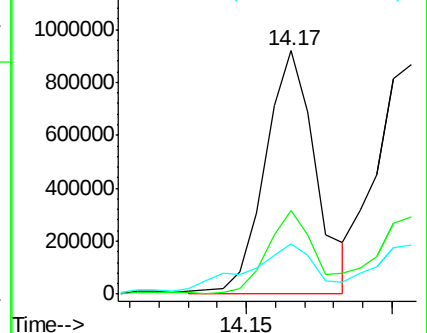
229 20.8 15.8 23.6

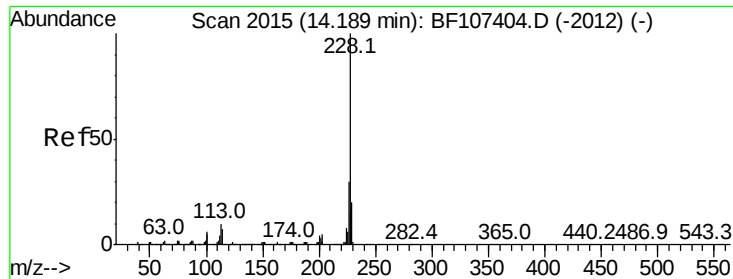


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 43.828 ng

RT: 14.21 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

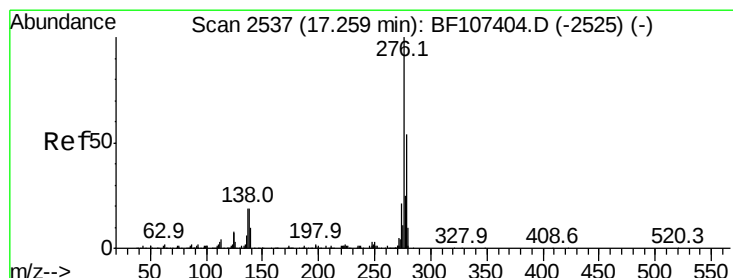
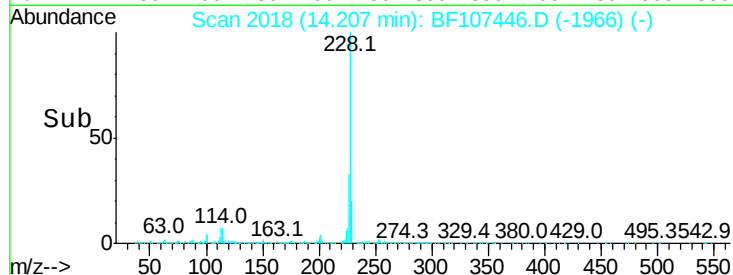
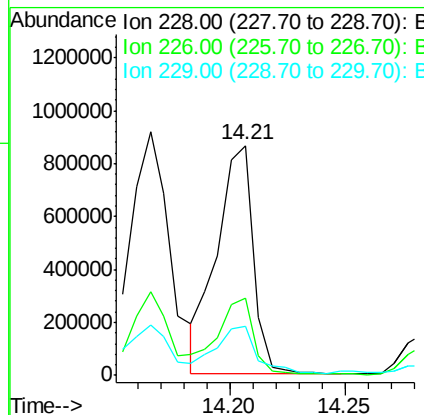
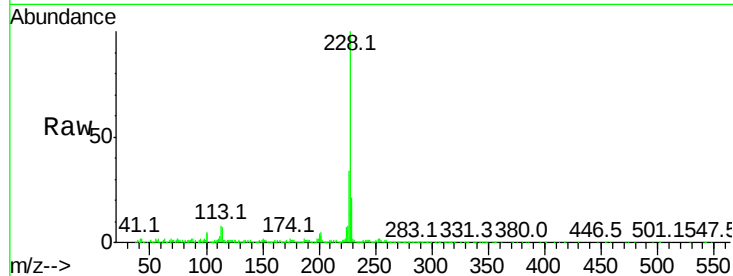
ClientSampleId :

PL-01-071318-A

Tot Ion:	228	Resp:	950289
Ion Ratio	Lower	Upper	
228	100		
226	33.6	25.0	37.6
229	21.3	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 26.156 ng

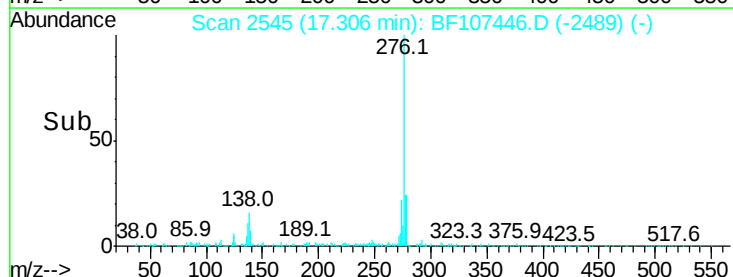
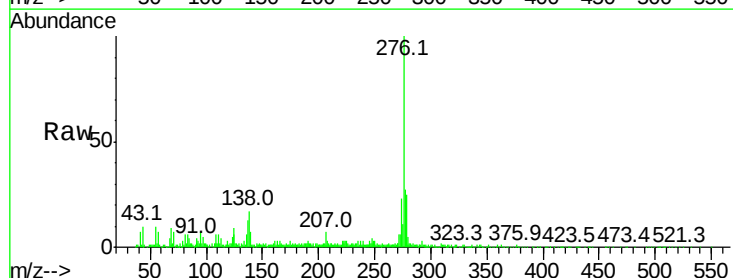
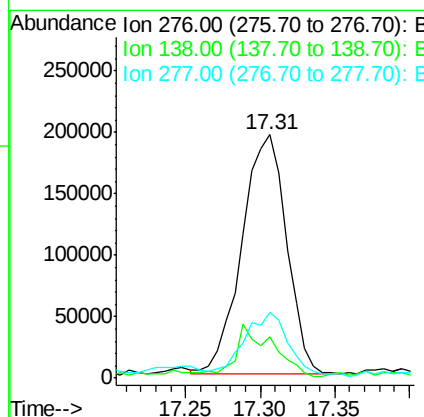
RT: 17.31 min Scan# 2545

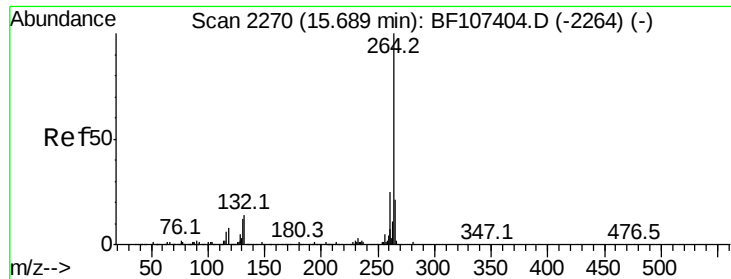
Delta R.T. 0.03 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion:	276	Resp:	403687
Ion Ratio	Lower	Upper	
276	100		
138	17.8	25.0	37.6#
277	26.3	20.1	30.1





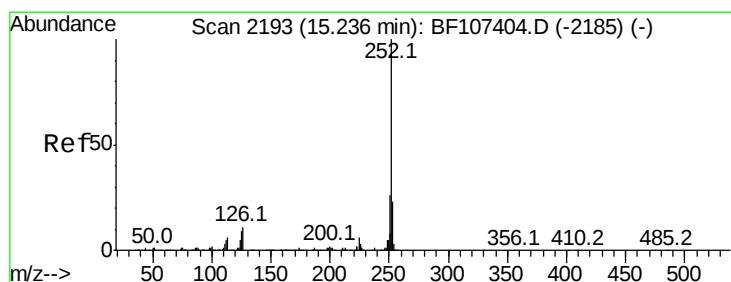
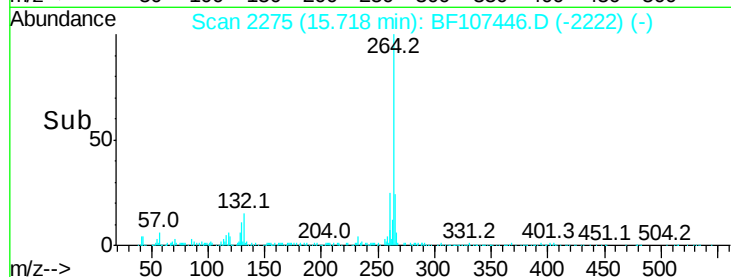
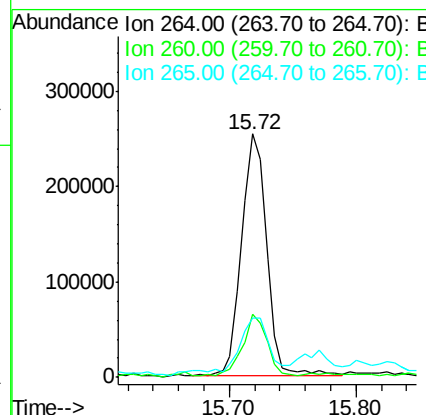
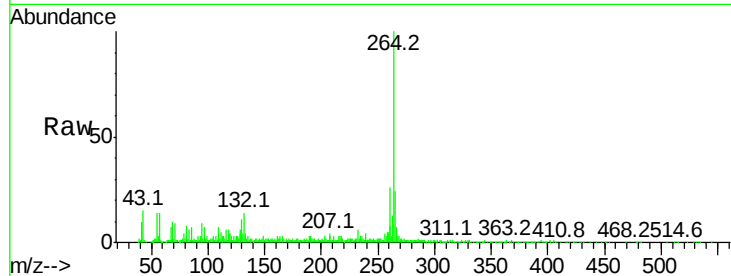
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF107446.D
Acq: 17 Jul 2018 13:48

Instrument :
BNA_F
ClientSampleId :
PL-01-071318-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.7	19.2	28.8
265	24.3	17.5	26.3

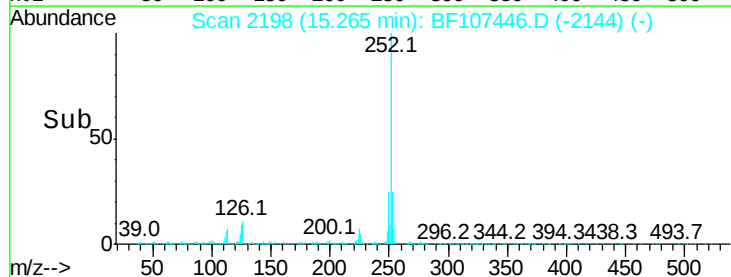
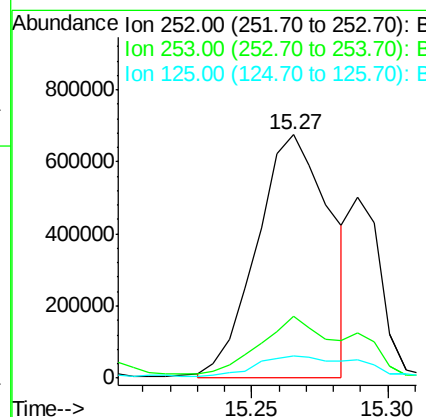
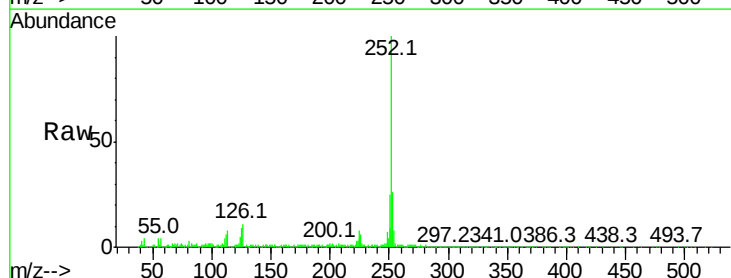
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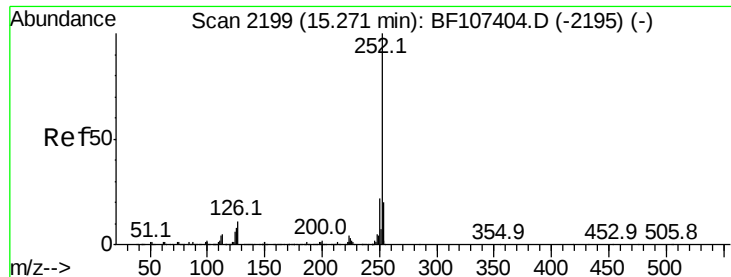
Sohil
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#87
Benzo(b)fluoranthene
Concen: 63.606 ng m
RT: 15.27 min Scan# 2198
Delta R.T. 0.02 min
Lab File: BF107446.D
Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.0	25.6#
125	9.4	9.0	13.6





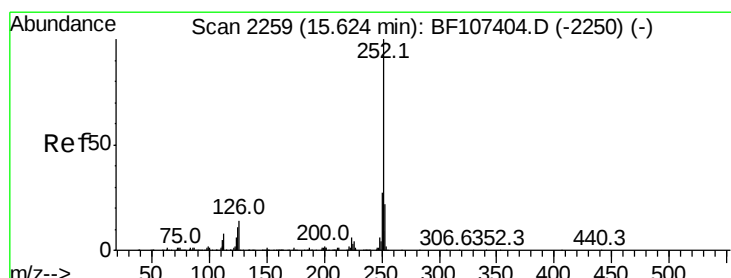
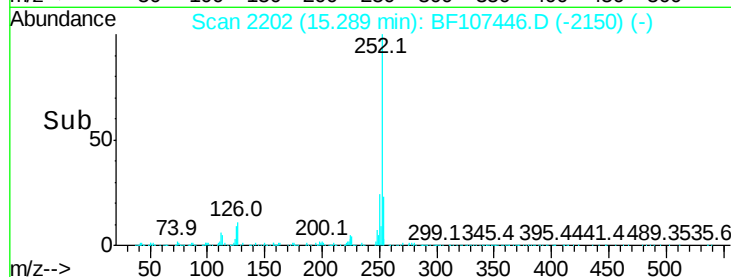
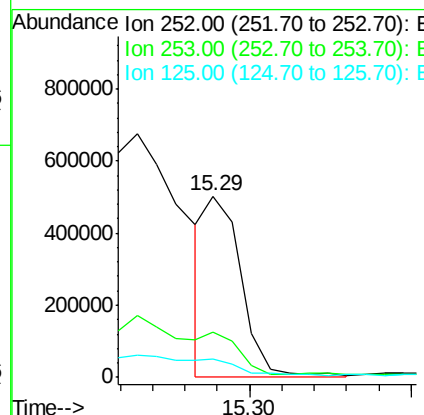
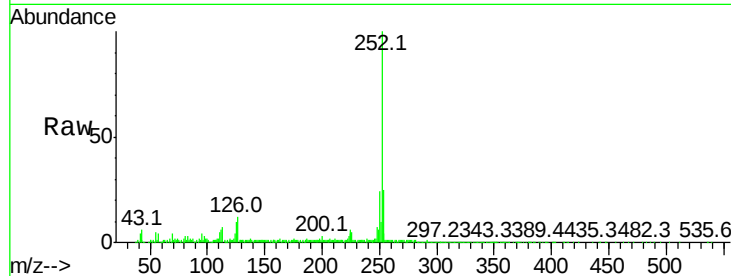
#88
Benzo(k)fluoranthene
Concen: 20.045 ng m
RT: 15.29 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF107446.D
Acq: 17 Jul 2018 13:48

Instrument :
BNA_F
ClientSampleId :
PL-01-071318-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.9	26.9
125	9.9	10.2	15.2#

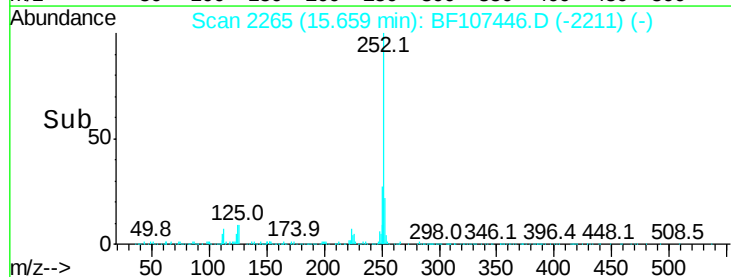
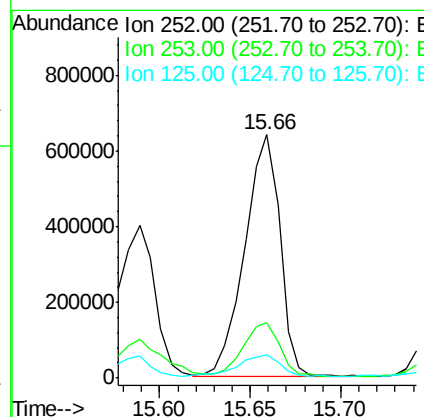
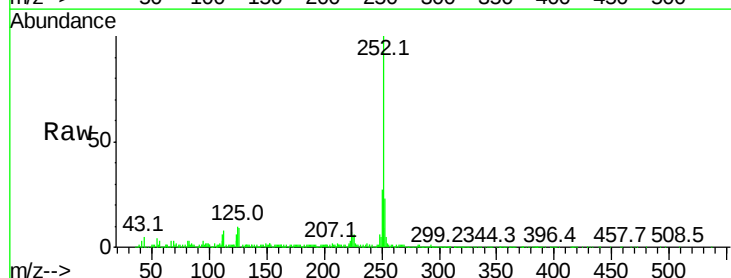
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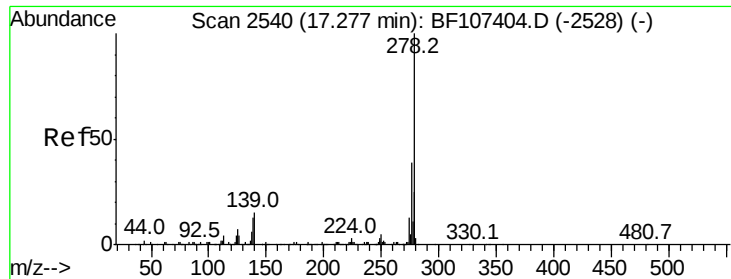
Sohil
7/18/2018 10:45:54 AM



#89
Benzo(a)pyrene
Concen: 47.143 ng m
RT: 15.66 min Scan# 2265
Delta R.T. 0.02 min
Lab File: BF107446.D
Acq: 17 Jul 2018 13:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	9.6	9.8	14.6#





#90

Dibenzo(a,h)anthracene

Concen: 8.029 ng

RT: 17.31 min Scan# 2546

Delta R.T. 0.01 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Instrument :

BNA_F

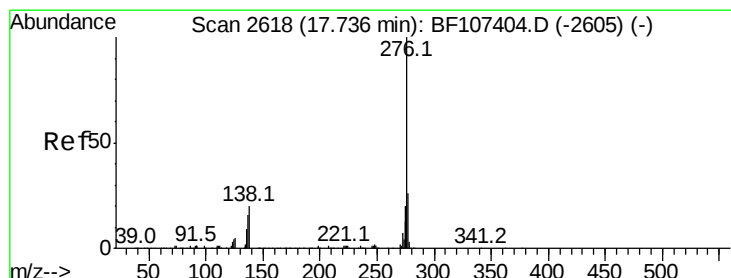
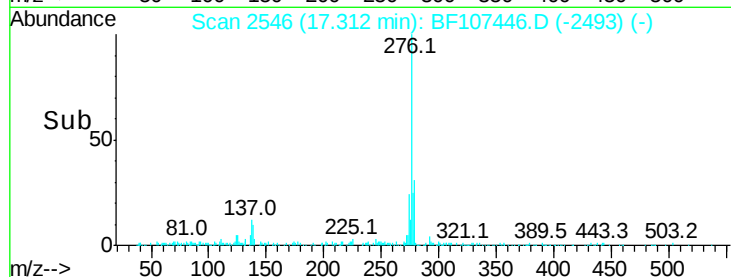
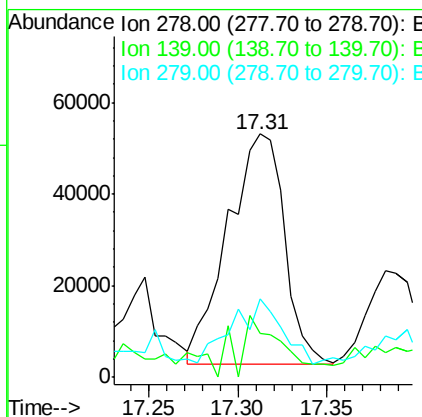
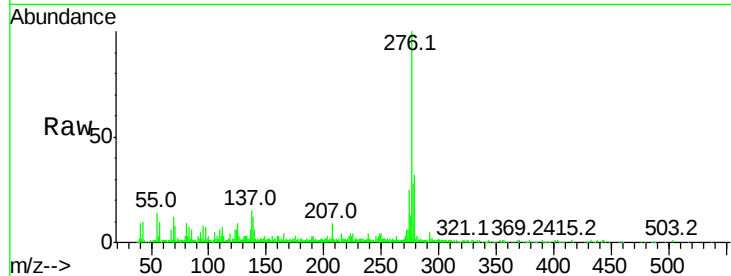
ClientSampleId :

PL-01-071318-A

Tot Ion:	278	Resp:	111346
Ion Ratio	Lower	Upper	
278	100		
139	17.8	15.9	23.9
279	32.1	19.0	28.4

Manual Integrations
APPROVED

Sohil
7/18/2018 10:45:54 AM



#91

Benzo(g,h,i)perylene

Concen: 26.554 ng

RT: 17.79 min Scan# 2627

Delta R.T. 0.03 min

Lab File: BF107446.D

Acq: 17 Jul 2018 13:48

Tgt Ion:	276	Resp:	374175
Ion Ratio	Lower	Upper	
276	100		
277	17.7	17.9	26.9
138	17.0	21.8	32.8

