

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061918\
 Data File : BF106617.D
 Acq On : 20 Jun 2018 8:36
 Operator : JU/SJ
 Sample : J3249-07DL 4X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-DDL

Manual Integrations
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Quant Time: Jun 20 09:01:06 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 19 14:32:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	102463	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	378207	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	151113	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	256702	20.00	ng	0.00
75) Chrysene-d12	14.16	240	270069	20.00	ng	0.00
86) Perylene-d12	15.71	264	200666	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	107654	17.79	ng	0.00
7) Phenol-d6	6.60	99	132345	17.51	ng	-0.01
23) Nitrobenzene-d5	7.52	82	77893	11.45	ng	-0.01
41) 2,4,6-Tribromophenol	10.79	330	23129	13.21	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	147910	2.20	ng	-0.01
78) Terphenyl-d14	13.08	244	145997	13.09	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	9.87	152	35844	2.395	ng	100
51) Acenaphthene	10.04	154	26751	2.838	ng	96
54) Dibenzofuran	10.21	168	31438	2.436	ng	# 94
57) Fluorene	10.55	166	51374	5.017	ng	100
70) Phenanthrene	11.52	178	455175	36.763	ng	99
71) Anthracene	11.57	178	174417	13.801	ng	98
74) Fluoranthene	12.72	202	915192	67.064	ng	98
77) Pyrene	12.95	202	852726	47.881	ng	98
80) Benzo(a)anthracene	14.15	228	558498	33.931	ng	97
82) Chrysene	14.19	228	457359	30.203	ng	98
85) Indeno(1,2,3-cd)pyrene	17.28	276	168805	13.136	ng	# 89
87) Benzo(b)fluoranthene	15.25	252	486084m	38.995	ng	
88) Benzo(k)fluoranthene	15.28	252	161352m	13.593	ng	
89) Benzo(a)pyrene	15.64	252	332324	29.990	ng	96
90) Dibenzo(a,h)anthracene	17.28	278	42690	4.546	ng	# 71
91) Benzo(g,h,i)perylene	17.76	276	162937	17.751	ng	# 93

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

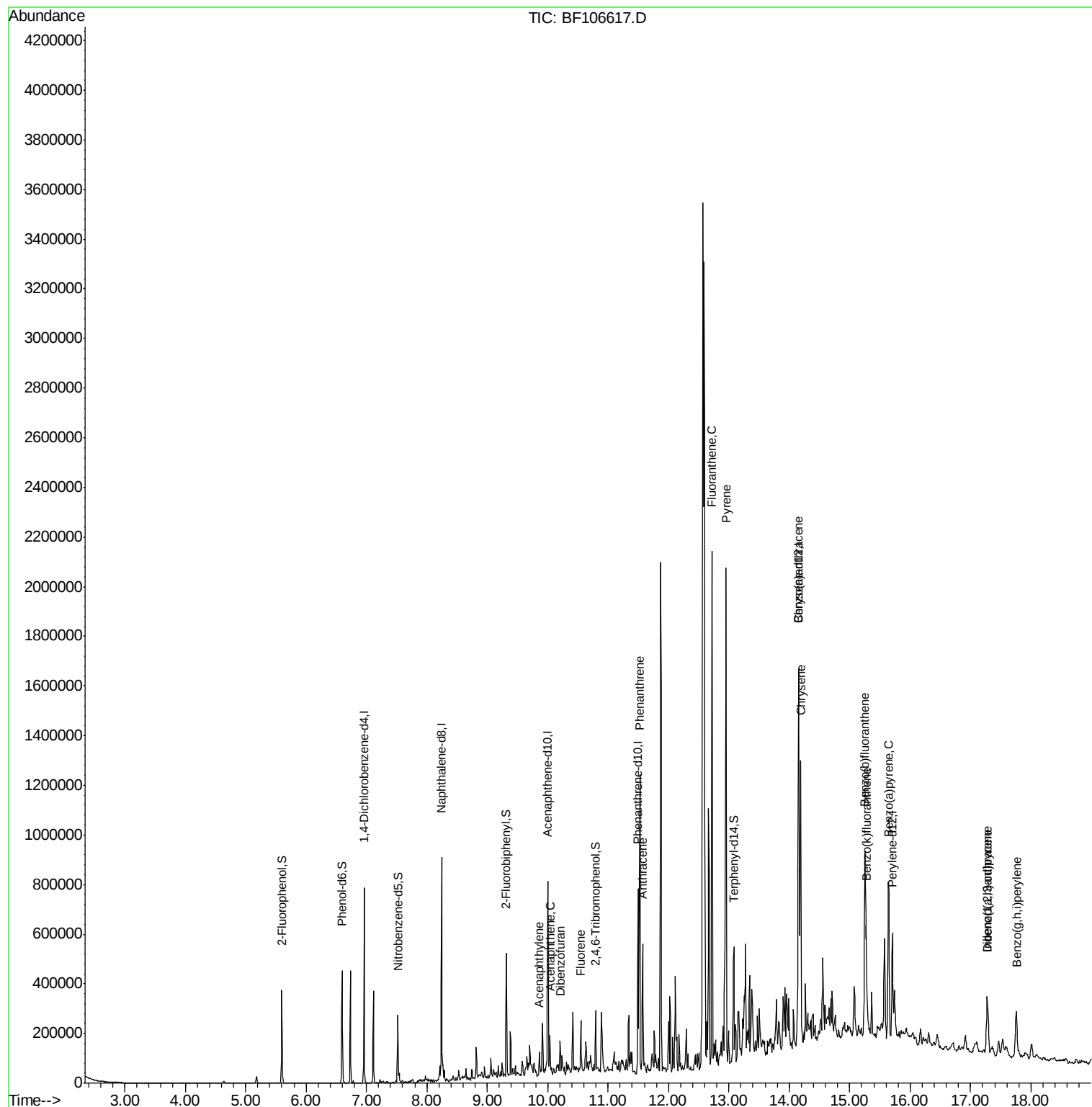
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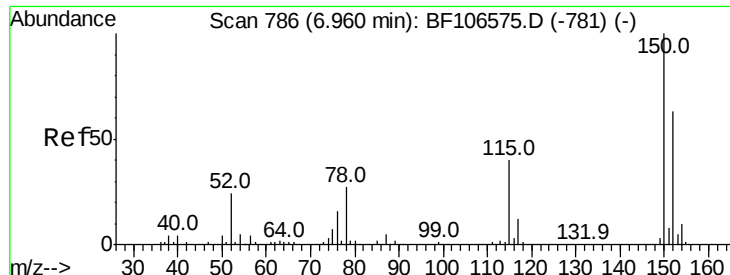
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#1

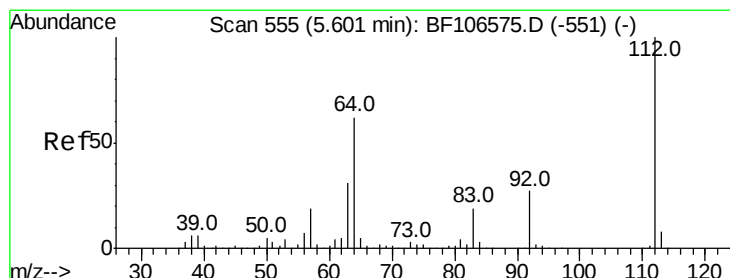
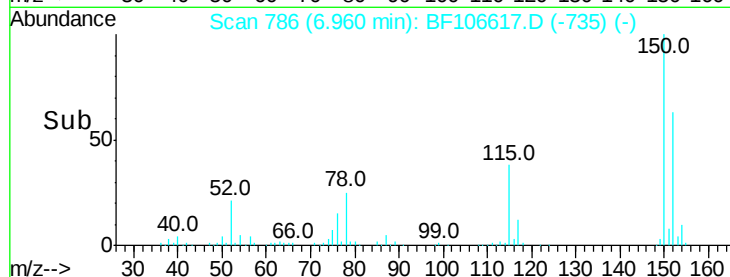
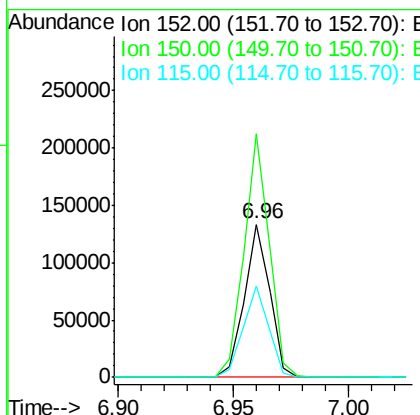
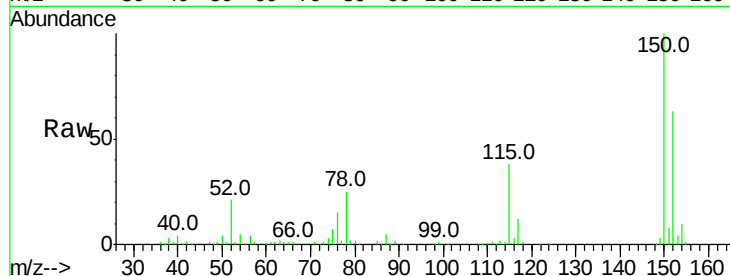
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-DDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.1	124.6	186.8
115	59.8	50.1	75.1

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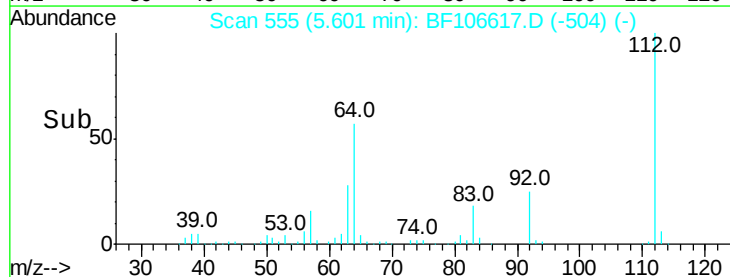
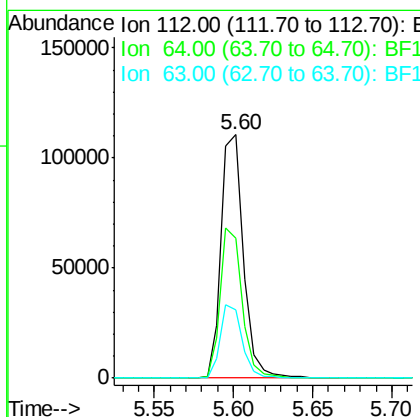
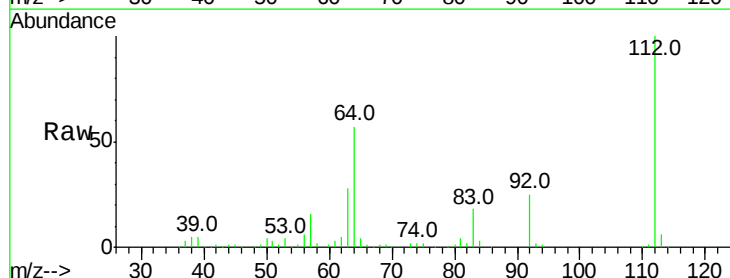
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#5

2-Fluorophenol
Concen: 17.791 ng
RT: 5.60 min Scan# 555
Delta R.T. 0.00 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.4	47.9	71.9
63	28.0	23.7	35.5





#7

Phenol-d6

Concen: 17.514 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Instrument :

BNA_F

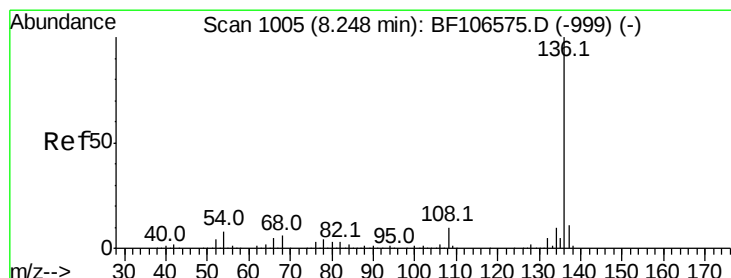
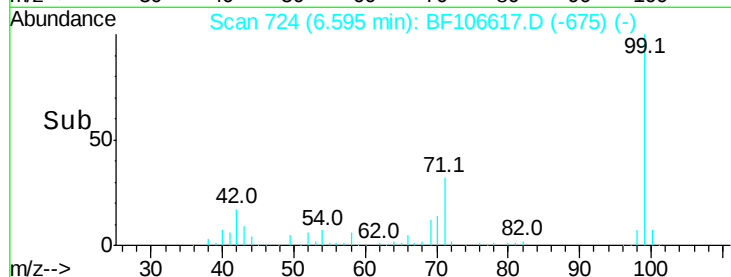
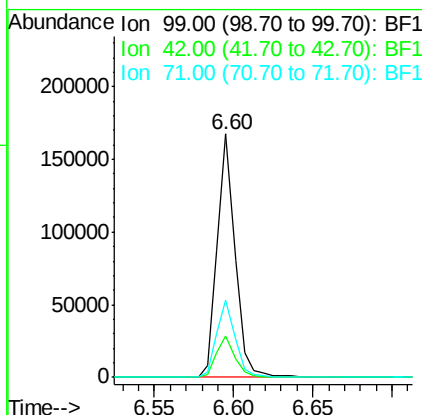
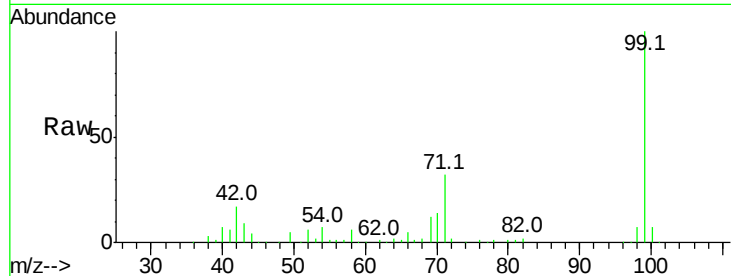
ClientSampleId :

PL-01-061818-DDL

Tot Ion:	99	Resp:	132345
Ion Ratio	Lower	Upper	
99	100		
42	17.0	14.5	21.7
71	31.8	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

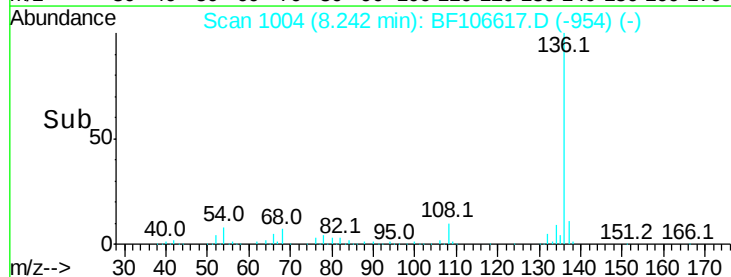
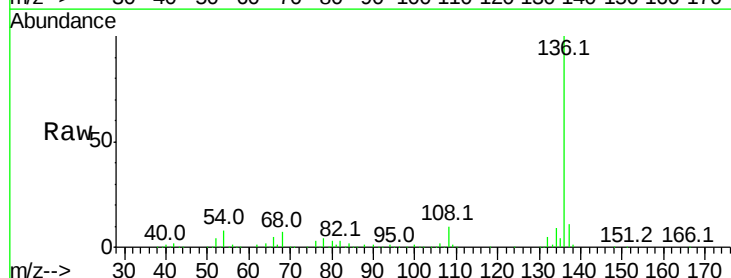
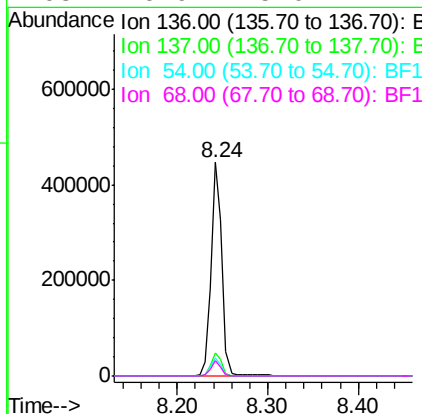
RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Tgt Ion:	136	Resp:	378207
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	8.2	6.6	9.8
68	6.9	5.0	7.4





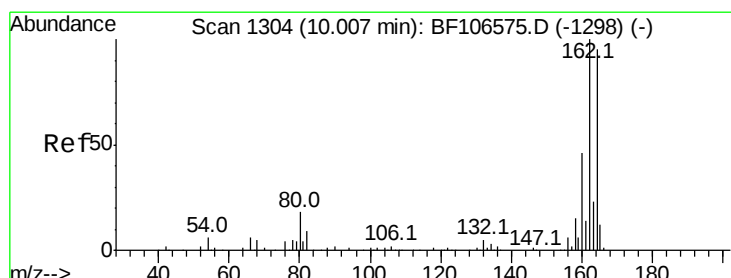
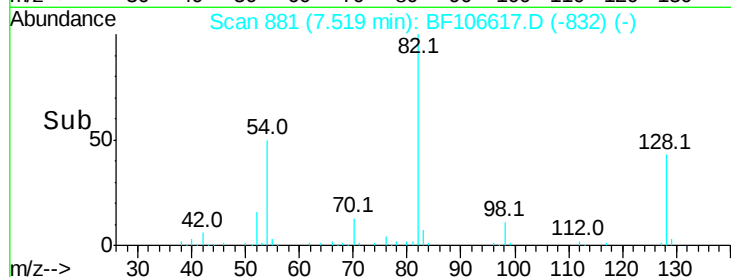
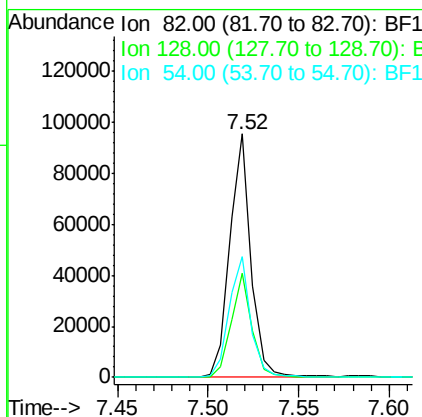
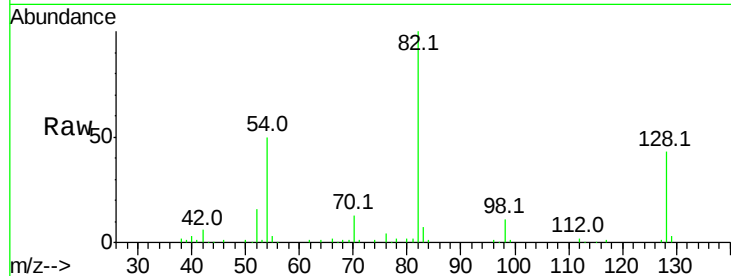
#23
 Nitrobenzene-d5
 Concen: 11.446 ng
 RT: 7.52 min Scan# 881
 Delta R.T. -0.01 min
 Lab File: BF106617.D
 Acq: 20 Jun 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-DDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.0	36.1	54.1
54	49.6	41.4	62.2

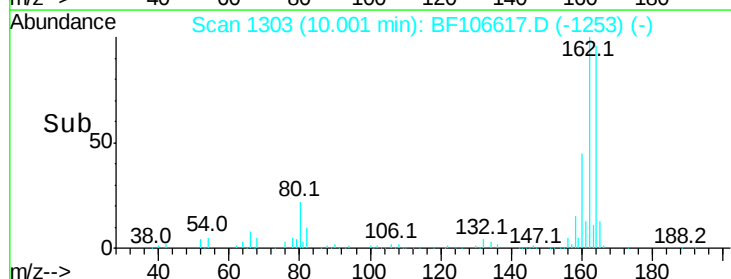
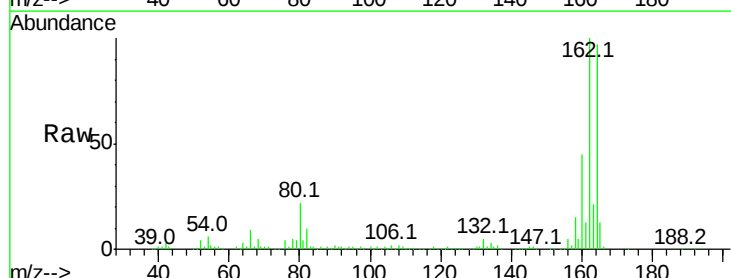
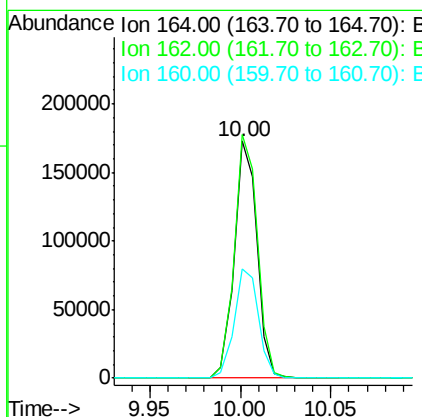
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF106617.D
 Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.9	86.1	129.1
160	46.1	38.3	57.5





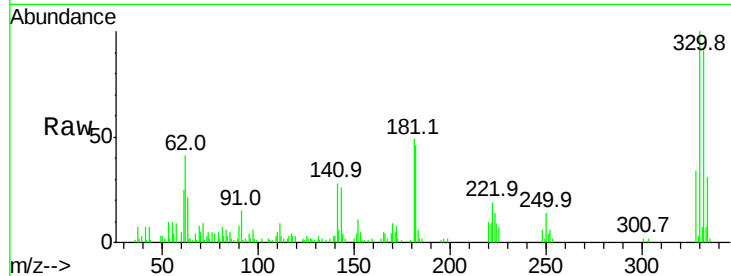
#41
 2,4,6-Tribromophenol
 Concen: 13.206 ng
 RT: 10.79 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF106617.D
 Acq: 20 Jun 2018 8:36

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-061818-DDL

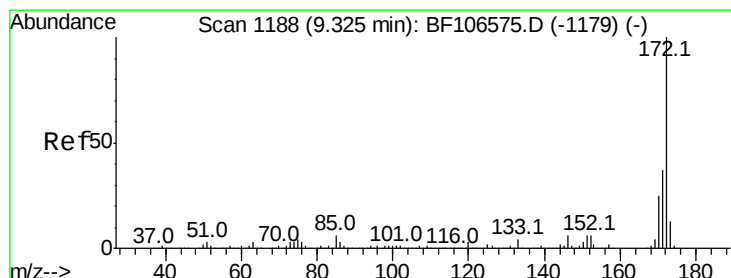
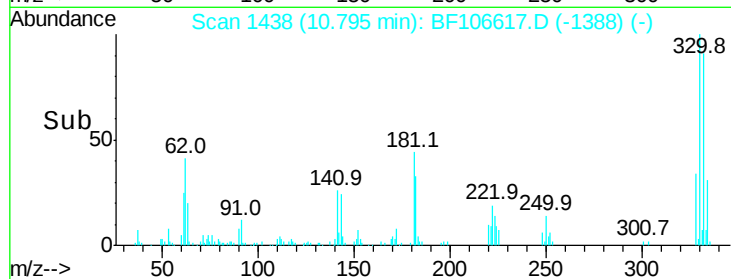
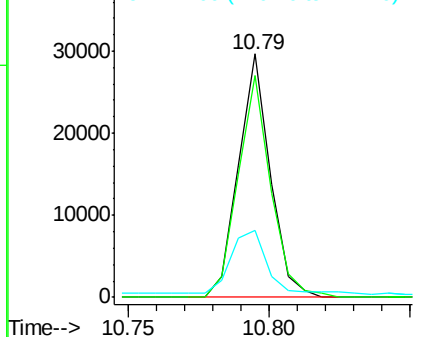
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	93.9	77.0	115.6	
141	31.8	29.9	44.9	

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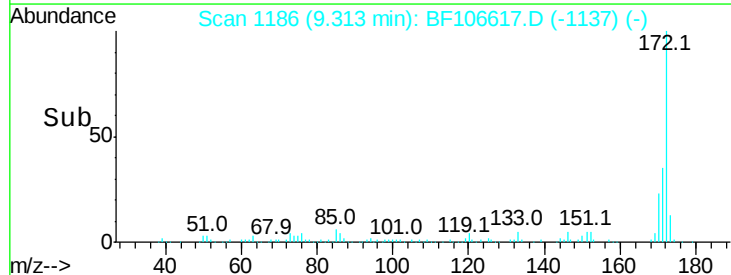
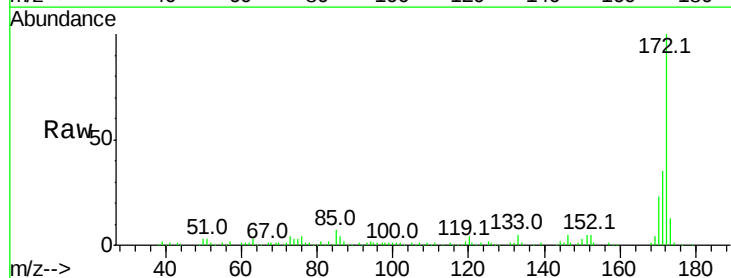
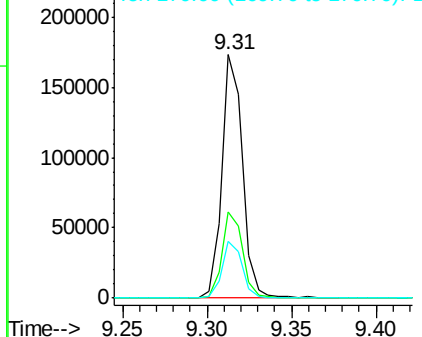
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

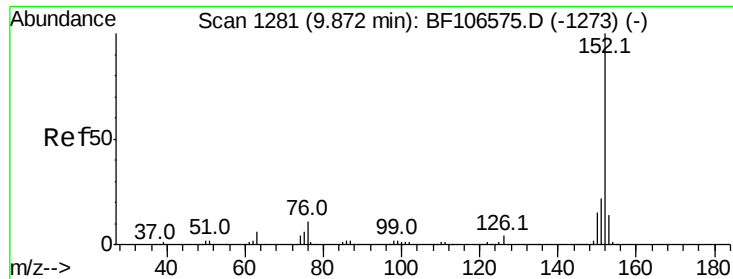


#44
 2-Fluorobiphenyl
 Concen: 2.198 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106617.D
 Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.4	29.7	44.5	
170	23.4	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: 2.395 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Instrument :

BNA_F

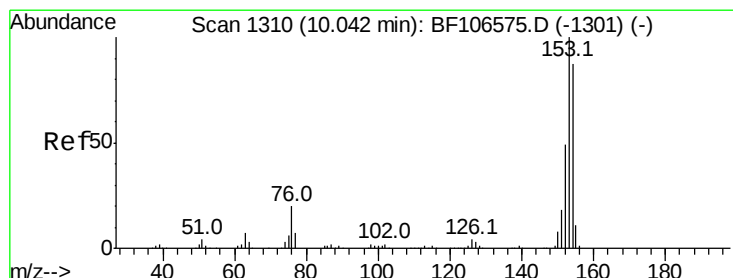
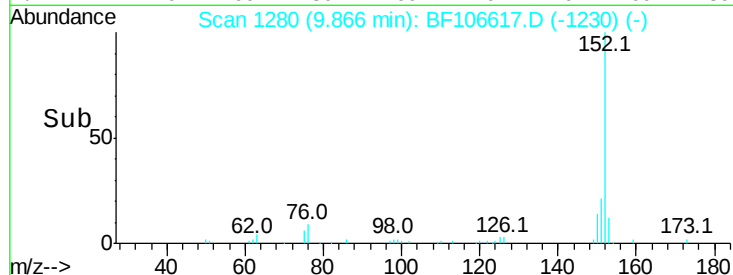
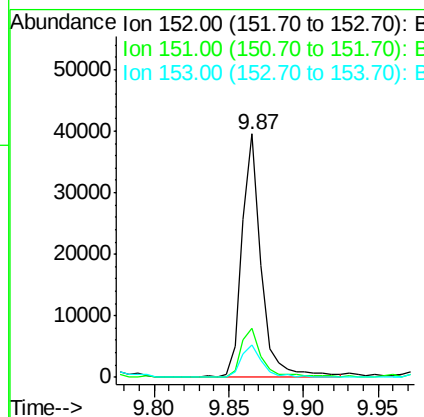
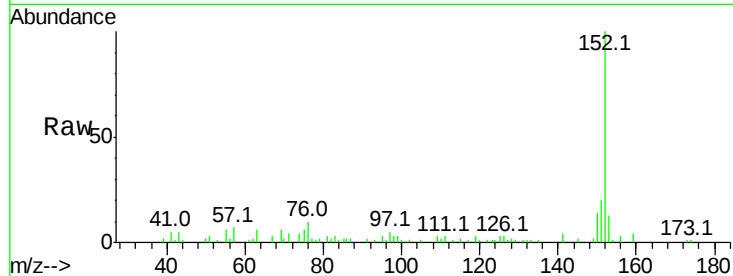
ClientSampleId :

PL-01-061818-DDL

Tot Ion:	152	Resp:	35844
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.3	24.5
153	13.2	10.7	16.1

Manual Integrations
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#51

Acenaphthene

Concen: 2.838 ng

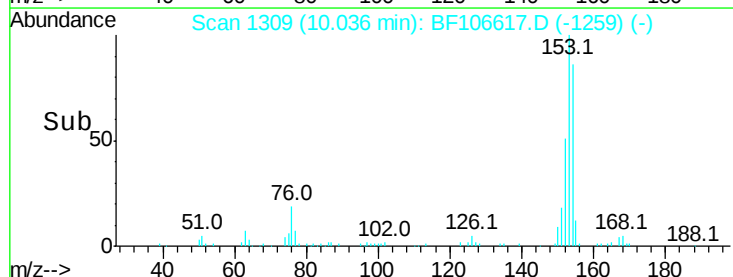
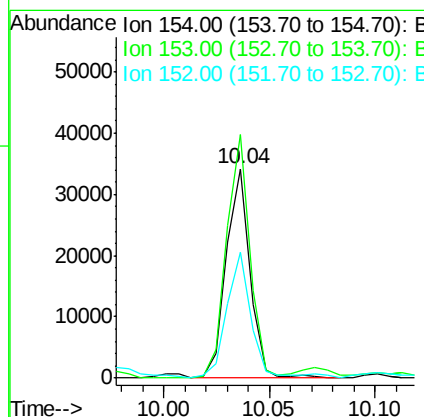
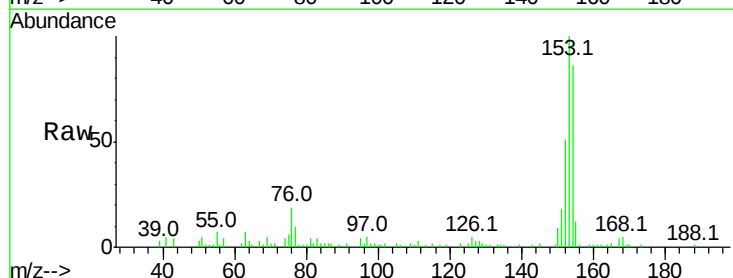
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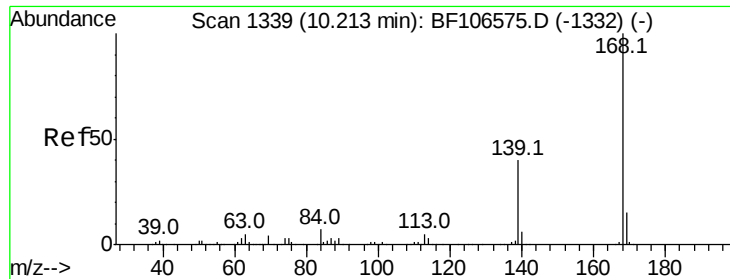
Delta R.T. -0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Tgt Ion:	154	Resp:	26751
Ion Ratio	Lower	Upper	
154	100		
153	116.1	91.2	136.8
152	59.8	43.8	65.8





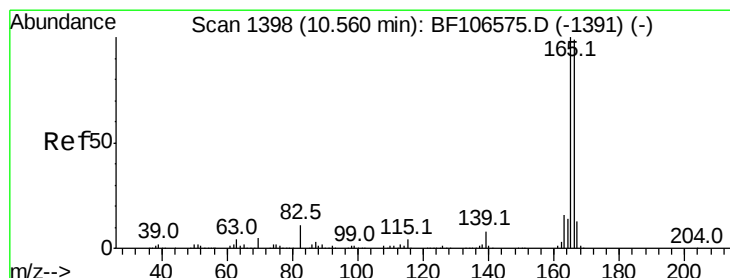
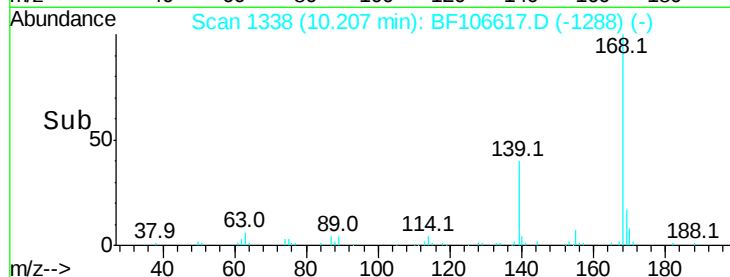
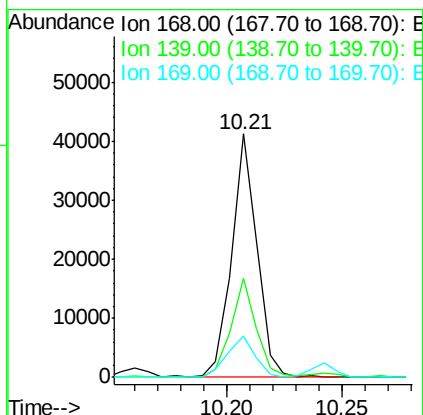
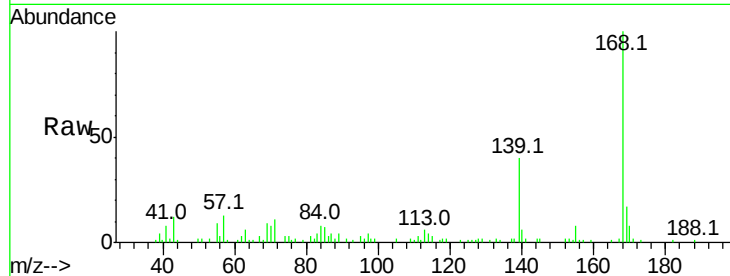
#54
Dibenzenofuran
Concen: 2.436 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Instrument :
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Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	40.5		30.1	45.1
169	16.9		10.9	16.3

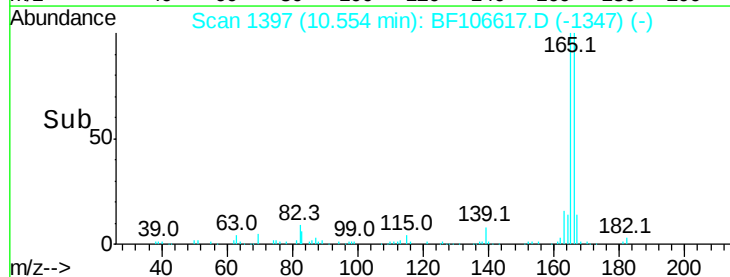
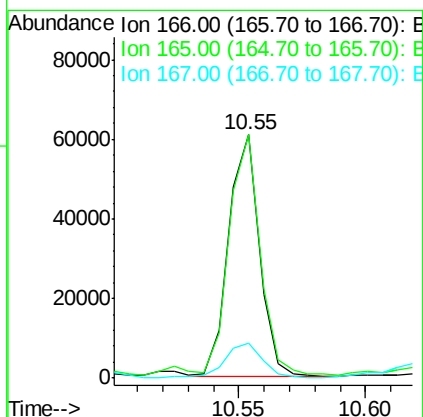
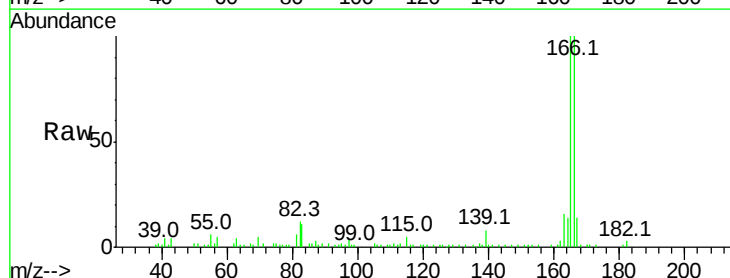
Manual Integrations
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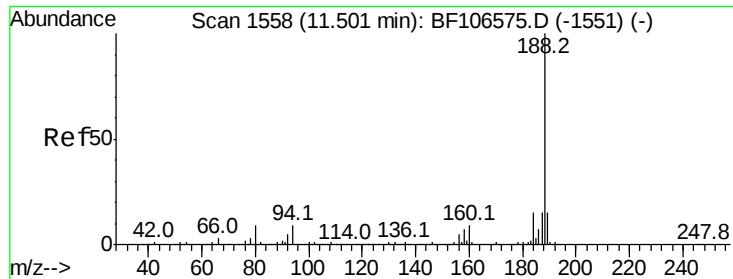
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#57
Fluorene
Concen: 5.017 ng
RT: 10.55 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.0		79.8	119.8
167	14.5		10.6	16.0





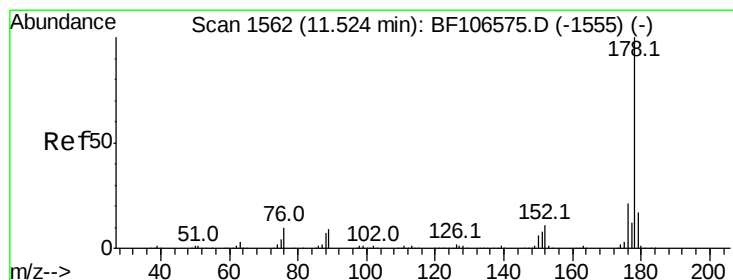
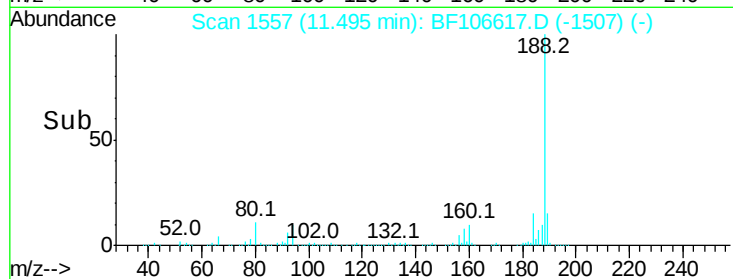
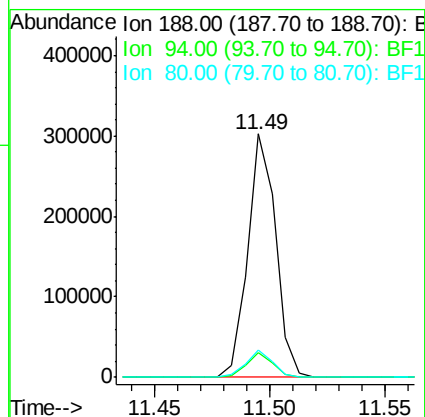
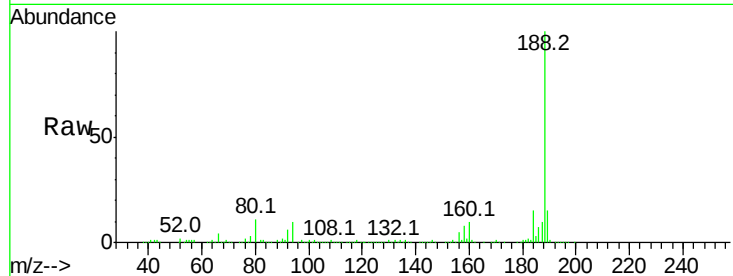
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1557
Delta R.T. -0.01 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-DDL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.2	8.5	12.7
80	11.0	9.2	13.8

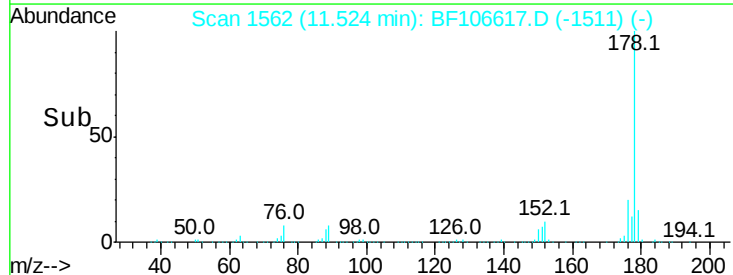
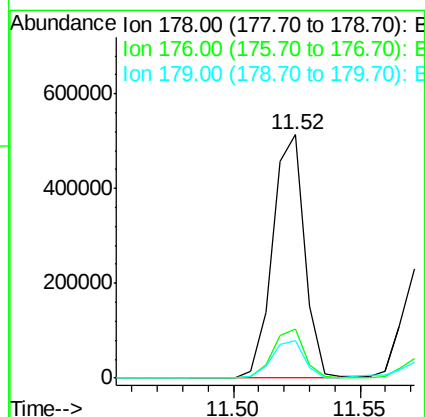
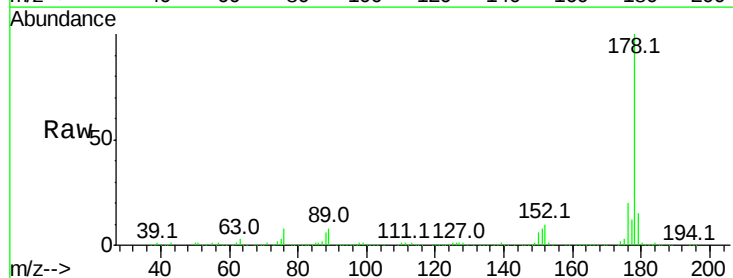
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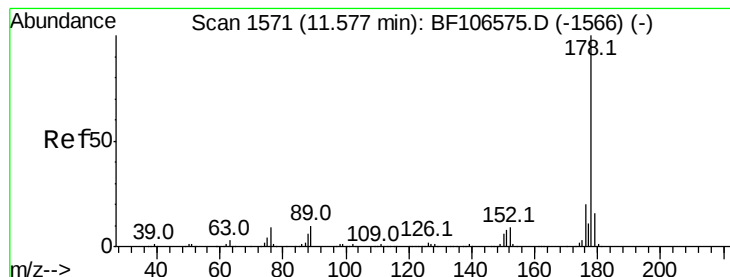
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#70
Phenanthrene
Concen: 36.763 ng
RT: 11.52 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.1	15.8	23.8
179	15.4	13.0	19.6





#71

Anthracene

Concen: 13.801 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Instrument :

BNA_F

ClientSampleId :

PL-01-061818-DDL

Tot Ion:178 Resp: 174417

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

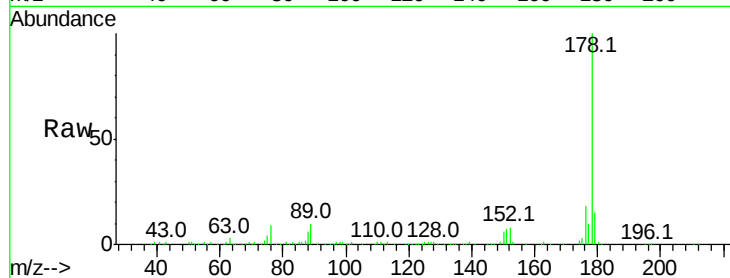
179 15.0 12.6 19.0

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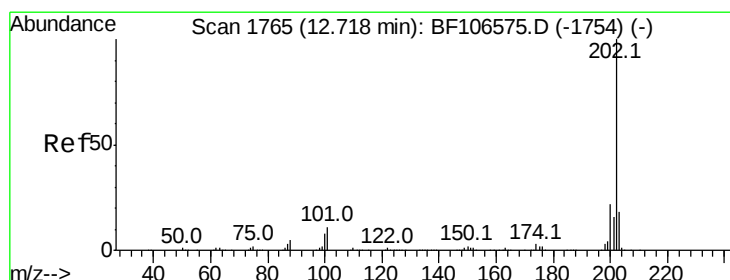
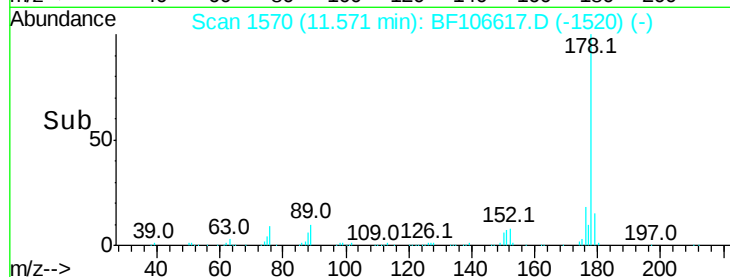
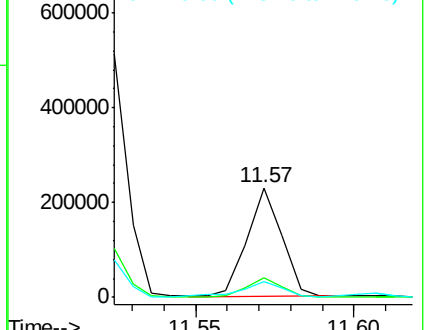
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 67.064 ng

RT: 12.72 min Scan# 1765

Delta R.T. 0.00 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

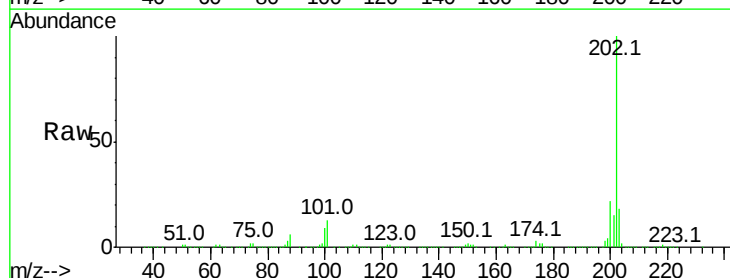
Tgt Ion:202 Resp: 915192

Ion Ratio Lower Upper

202 100

101 12.5 0.0 34.1

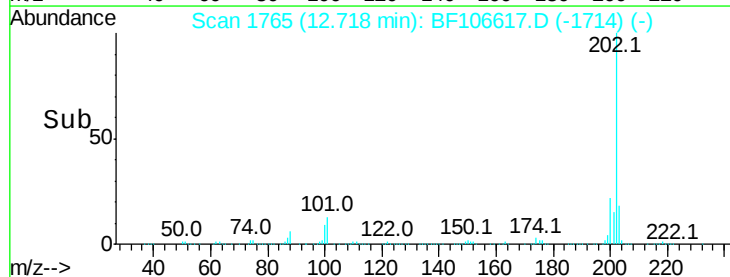
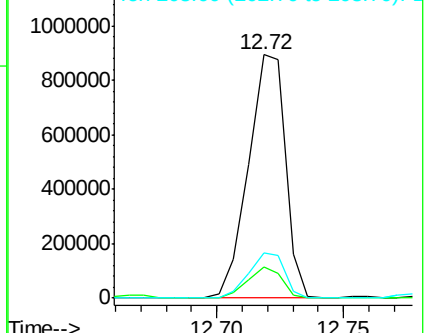
203 18.5 0.0 38.1

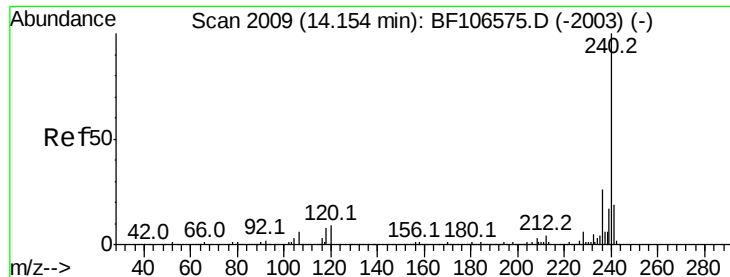


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Instrument :

BNA_F

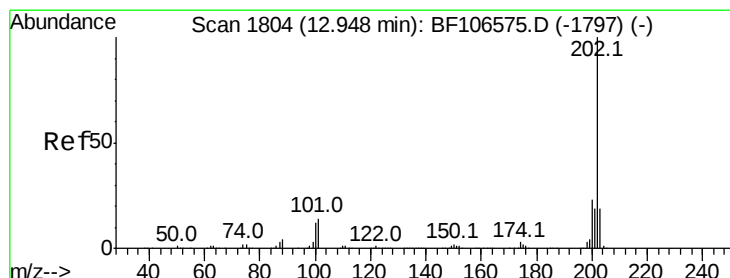
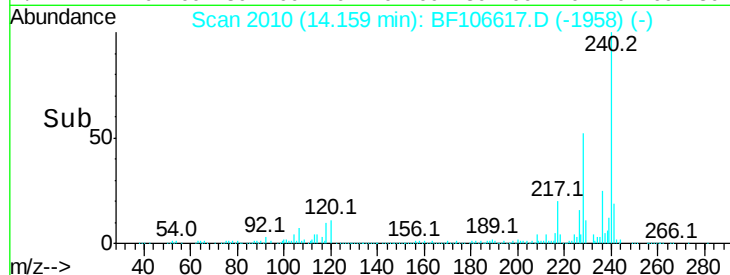
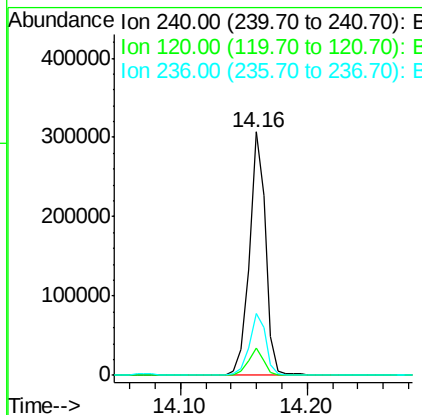
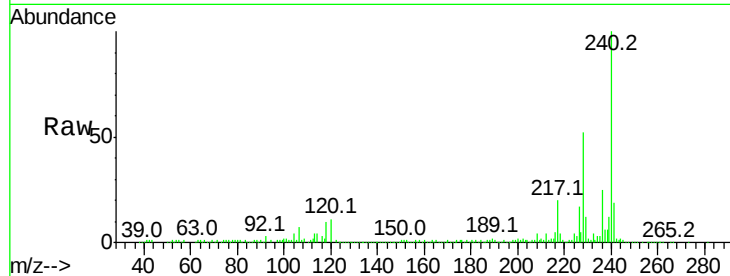
ClientSampleId :

PL-01-061818-DDL

Tot Ion:	240	Resp:	270069
Ion Ratio	Lower	Upper	
240	100		
120	11.0	9.5	14.3
236	25.4	20.7	31.1

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#77

Pyrene

Concen: 47.881 ng

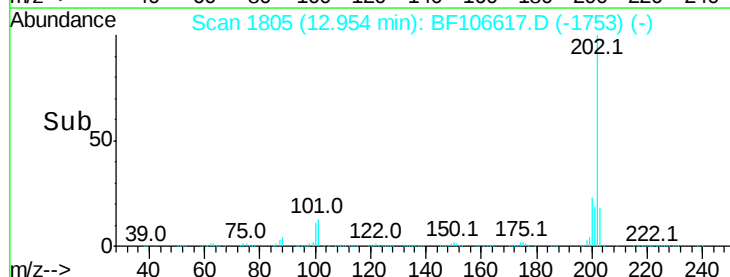
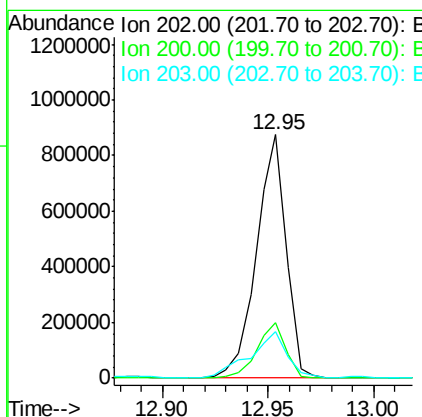
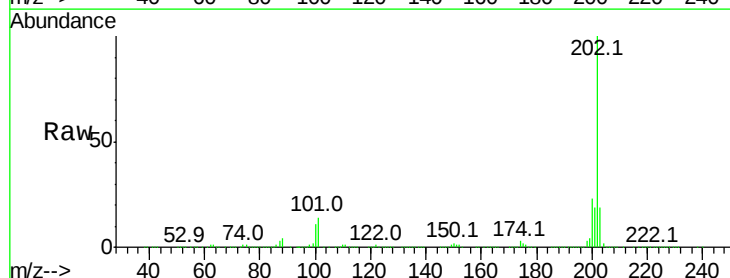
RT: 12.95 min Scan# 1805

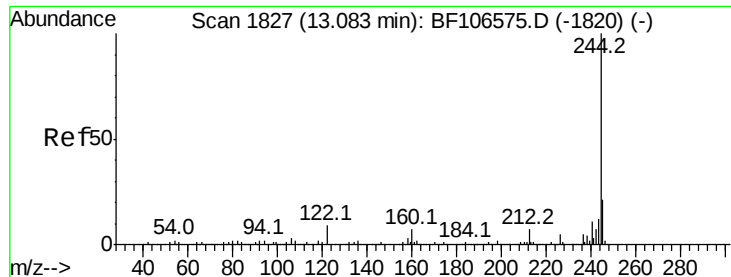
Delta R.T. 0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Tgt Ion:	202	Resp:	852726
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.4	26.2
203	18.9	14.3	21.5





#78

Terphenyl-d14

Concen: 13.095 ng

RT: 13.08 min Scan# 1827

Delta R.T. 0.00 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Instrument :

BNA_F

ClientSampleId :

PL-01-061818-DDL

Tot Ion:244 Resp: 145997

Ion Ratio Lower Upper

244 100

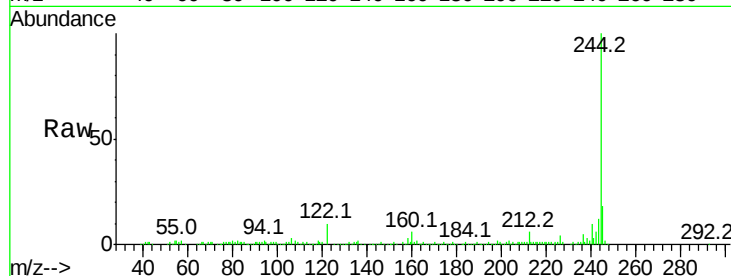
212 6.4 5.4 8.0

122 9.6 11.0 16.4#

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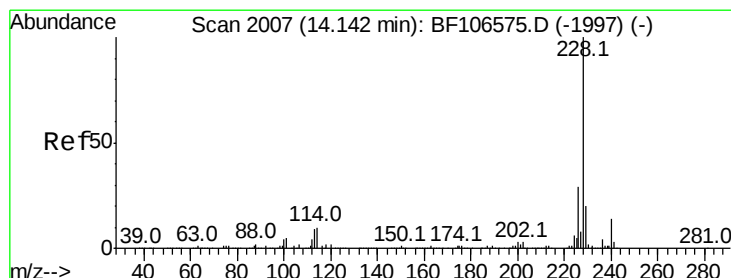
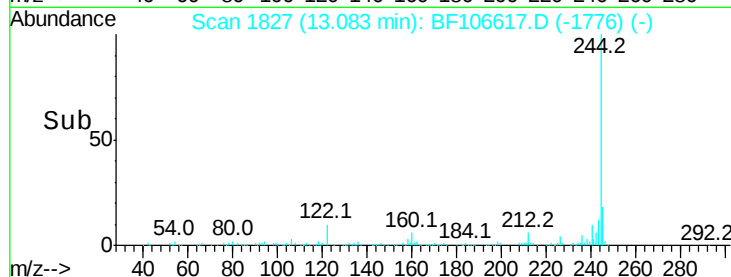
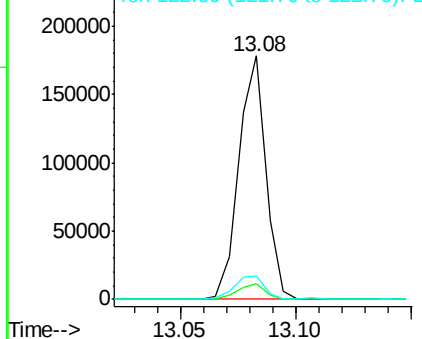
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 33.931 ng

RT: 14.15 min Scan# 2008

Delta R.T. 0.01 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

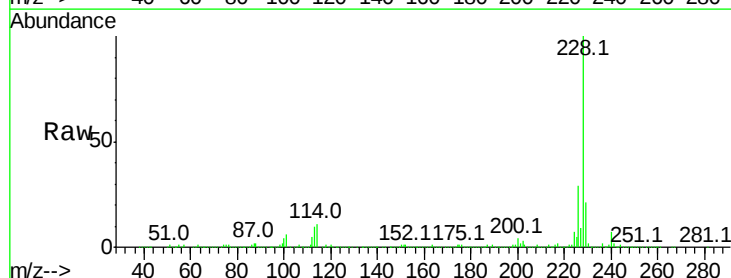
Tgt Ion:228 Resp: 558498

Ion Ratio Lower Upper

228 100

226 29.5 22.6 33.8

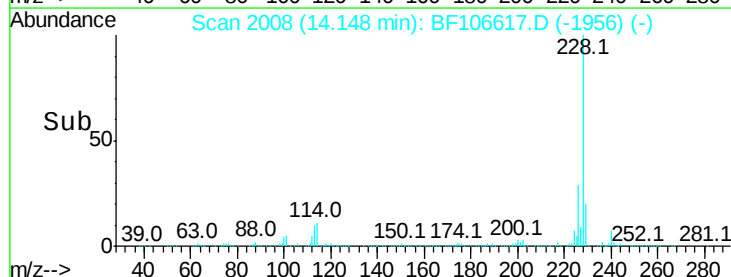
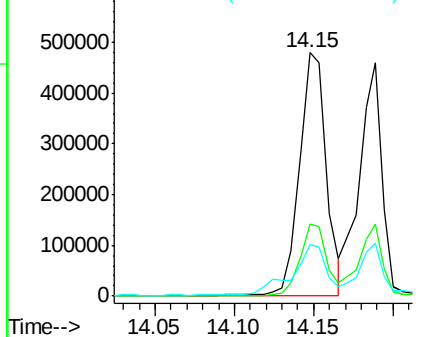
229 21.1 15.8 23.6

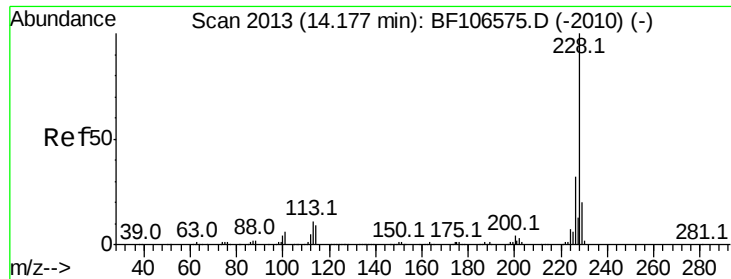


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





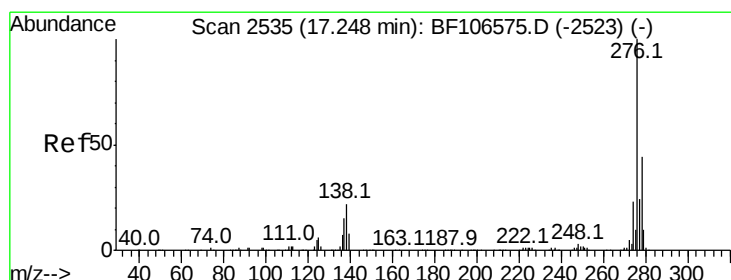
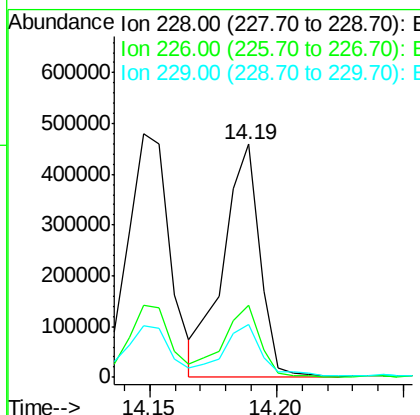
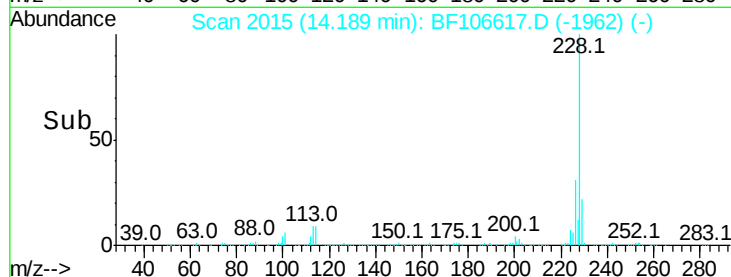
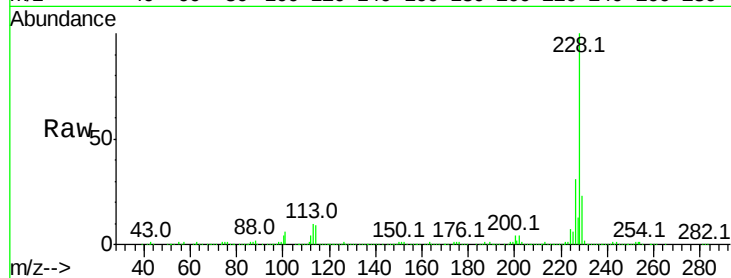
#82
Chrysene
Concen: 30.203 ng
RT: 14.19 min Scan# 2015
Delta R.T. 0.01 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-DDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.6
229	22.9	16.2	24.4

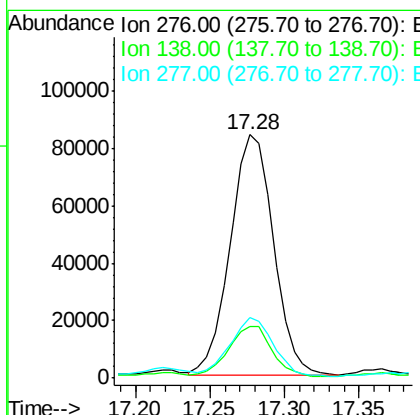
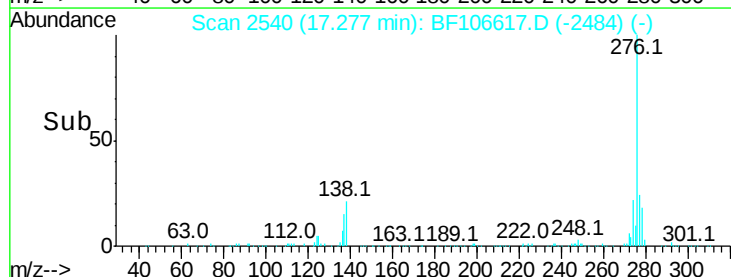
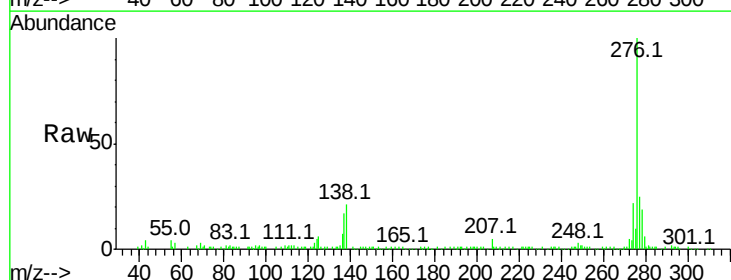
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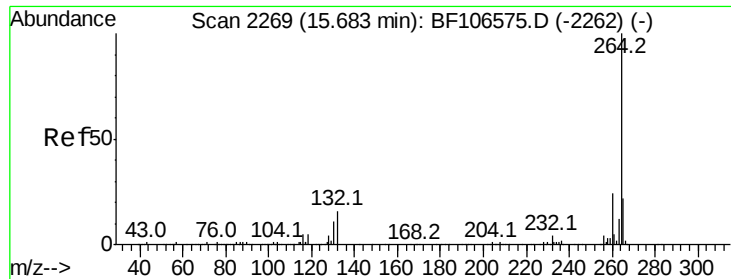
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 13.136 ng
RT: 17.28 min Scan# 2540
Delta R.T. 0.03 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.1	25.0	37.6#
277	24.2	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.71 min Scan# 2273

Delta R.T. 0.02 min

Lab File: BF106617.D

Acq: 20 Jun 2018 8:36

Instrument :

BNA_F

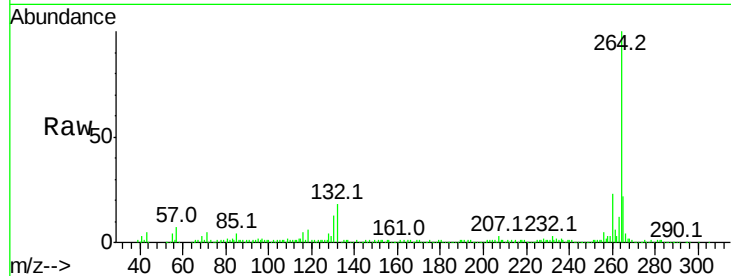
ClientSampleId :

PL-01-061818-DDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.2	28.8
265	21.8	17.5	26.3

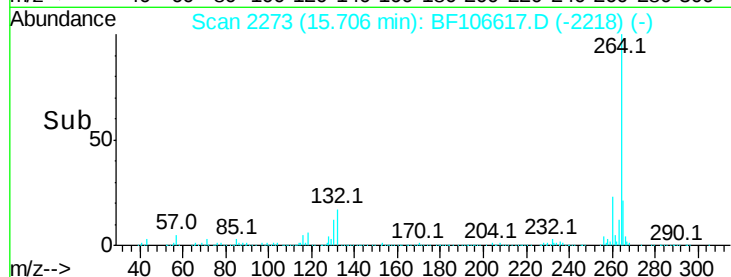
Manual Integrations
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6/20/2018 4:58:49 PM

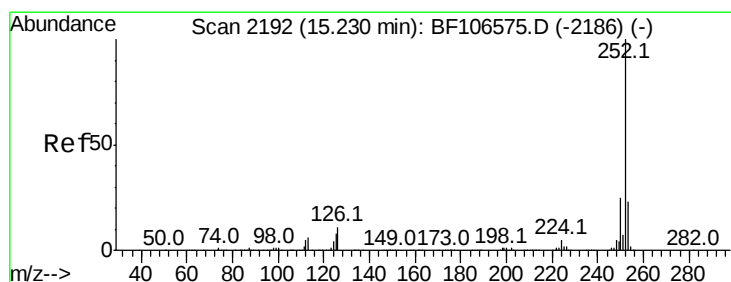


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

15.71



Time-->



#87

Benzo(b)fluoranthene

Concen: 38.995 ng m

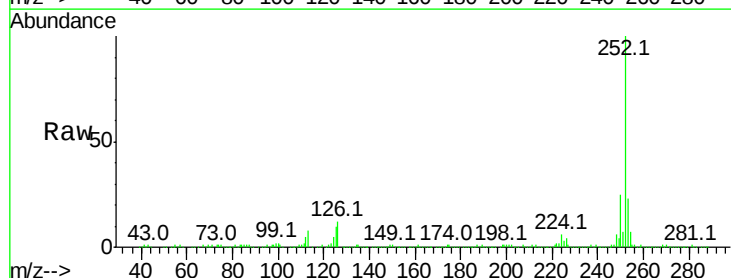
RT: 15.25 min Scan# 2196

Delta R.T. 0.02 min

Lab File: BF106617.D

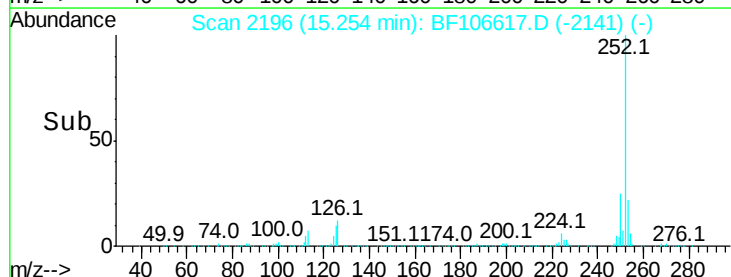
Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	10.0	9.0	13.6

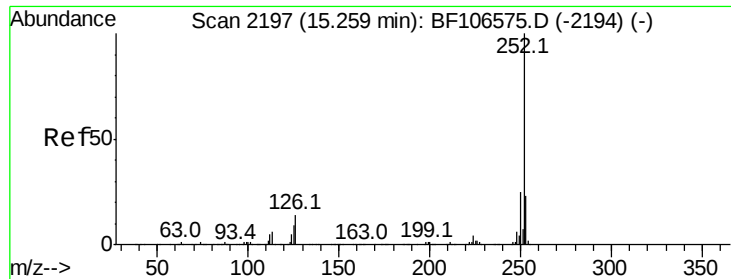


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

15.25



Time-->



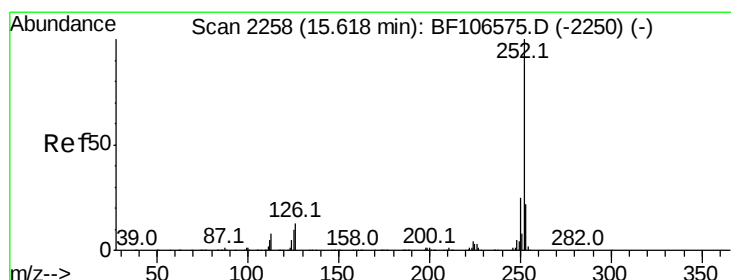
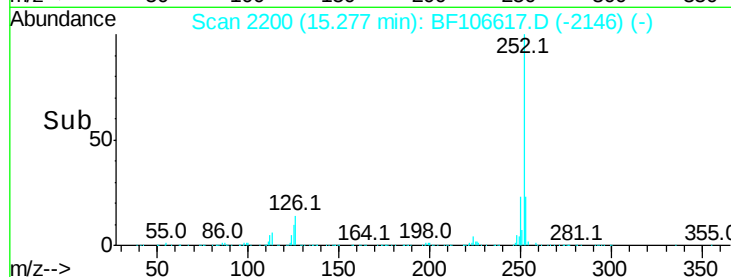
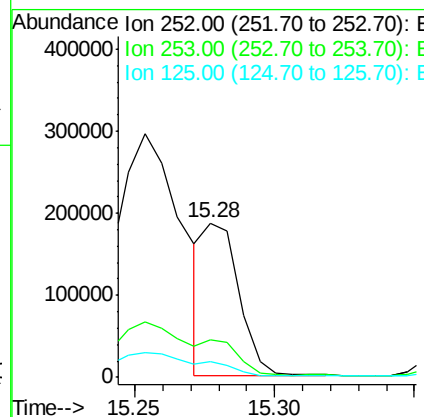
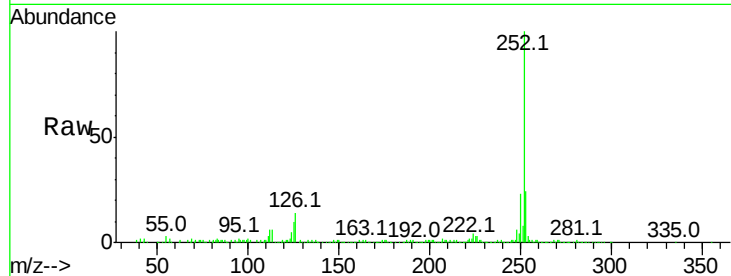
#88
Benzo(k)fluoranthene
Concen: 13.593 ng m
RT: 15.28 min Scan# 2200
Delta R.T. 0.02 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-DDL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	161352		
253	24.1	17.9	26.9	
125	10.5	10.2	15.2	

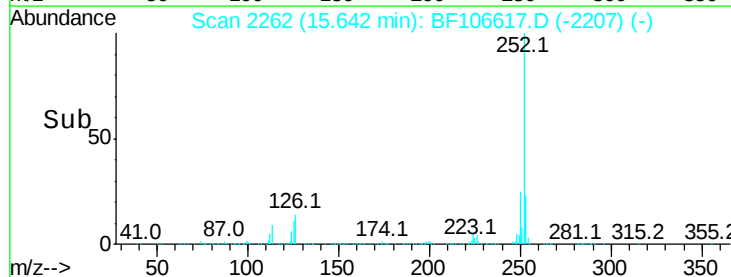
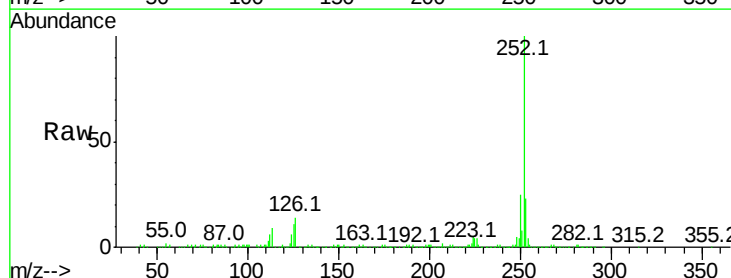
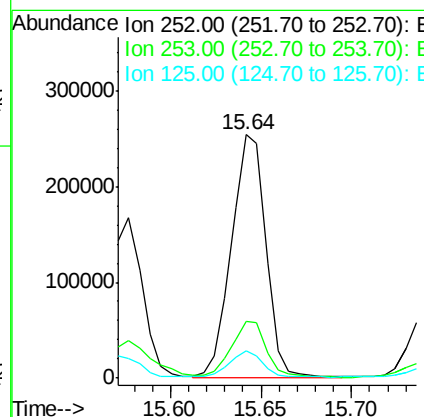
Manual Integrations
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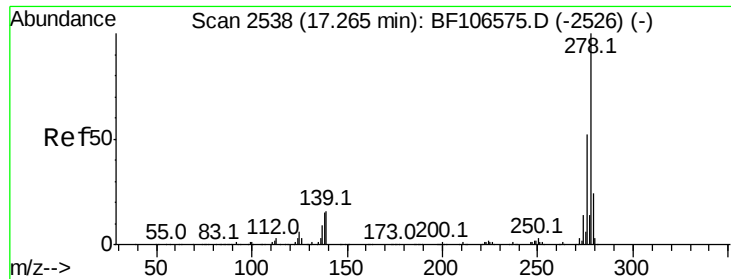
Sohil
6/20/2018 4:58:49 PM



#89
Benzo(a)pyrene
Concen: 29.990 ng
RT: 15.64 min Scan# 2262
Delta R.T. 0.02 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	332324		
253	23.5	17.1	25.7	
125	11.2	9.8	14.6	





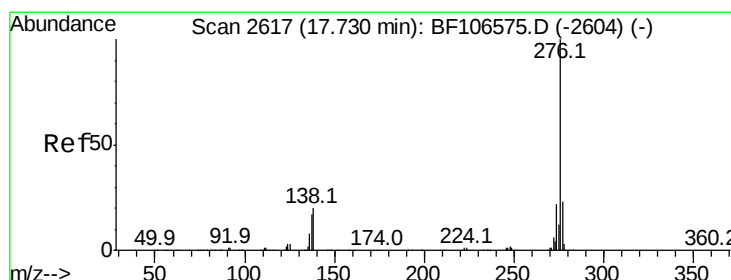
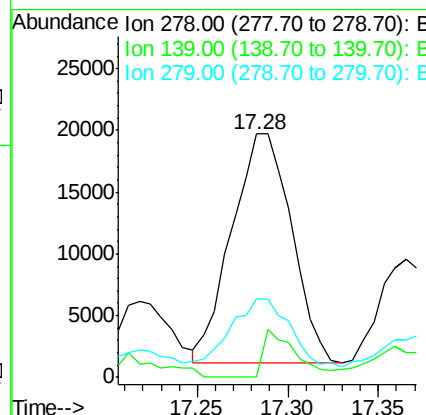
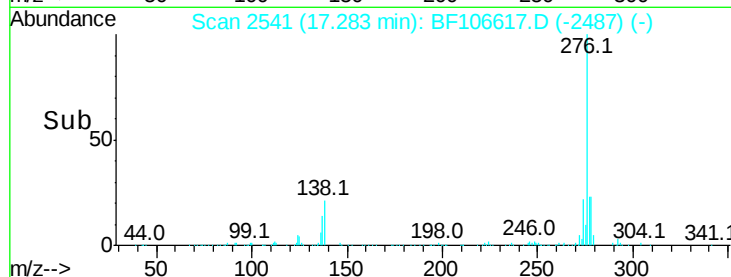
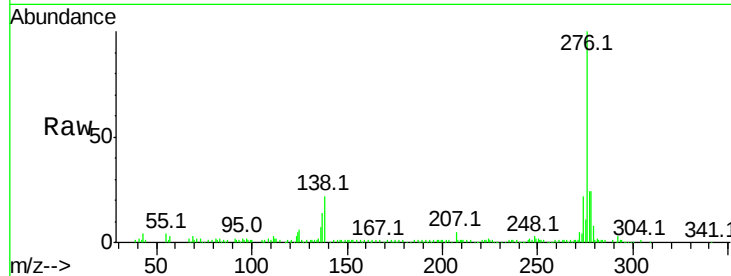
#90
Dibenzo(a,h)anthracene
Concen: 4.546 ng
RT: 17.28 min Scan# 2541
Delta R.T. 0.02 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-DDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	32.1	19.0	28.4#

Manual Integrations
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6/20/2018 4:58:49 PM



#91
Benzo(g,h,i)perylene
Concen: 17.751 ng
RT: 17.76 min Scan# 2622
Delta R.T. 0.03 min
Lab File: BF106617.D
Acq: 20 Jun 2018 8:36

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	21.6	21.8	32.8#

