

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062618\
 Data File : BF106821.D
 Acq On : 26 Jun 2018 14:35
 Operator : JU/SJ
 Sample : J3241-13
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Manual Integrations
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 6/27/2018 2:13:59 PM

Quant Time: Jun 26 16:07:21 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 25 18:50:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	47553	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	171602	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	75452	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	137019	20.00	ng	0.00
75) Chrysene-d12	14.16	240	131215	20.00	ng	0.00
86) Perylene-d12	15.71	264	95201	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	115718	41.21	ng	0.00
7) Phenol-d6	6.60	99	144641	41.24	ng	-0.02
23) Nitrobenzene-d5	7.52	82	82801	26.82	ng	-0.02
41) 2,4,6-Tribromophenol	10.80	330	35180	40.23	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	165033	26.95	ng	-0.01
78) Terphenyl-d14	13.08	244	182907	33.77	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.27	128	38469	4.795	ng	98
37) 2-Methylnaphthalene	8.95	142	24546	4.616	ng	98
49) Dimethylphthalate	9.71	163	23276	4.113	ng	# 96
51) Acenaphthene	10.04	154	43574	9.260	ng	98
54) Dibenzofuran	10.21	168	46373	7.197	ng	93
57) Fluorene	10.55	166	67800	13.260	ng	99
70) Phenanthrene	11.52	178	403822	61.105	ng	99
71) Anthracene	11.57	178	148754	22.052	ng	99
72) Carbazole	11.72	167	27476	4.351	ng	98
74) Fluoranthene	12.72	202	542949	74.539	ng	96
77) Pyrene	12.95	202	474209	54.805	ng	99
80) Benzo(a)anthracene	14.15	228	274520	34.327	ng	98
82) Chrysene	14.18	228	213806	29.060	ng	97
85) Indeno(1,2,3-cd)pyrene	17.29	276	80893	12.956	ng	# 86
87) Benzo(b)fluoranthene	15.25	252	217629m	36.800	ng	
88) Benzo(k)fluoranthene	15.28	252	82537m	14.656	ng	
89) Benzo(a)pyrene	15.65	252	155408	29.561	ng	96
90) Dibenzo(a,h)anthracene	17.29	278	21313	4.784	ng	# 90
91) Benzo(a,h,i)perylene	17.78	276	75115	17.249	ng	# 87

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

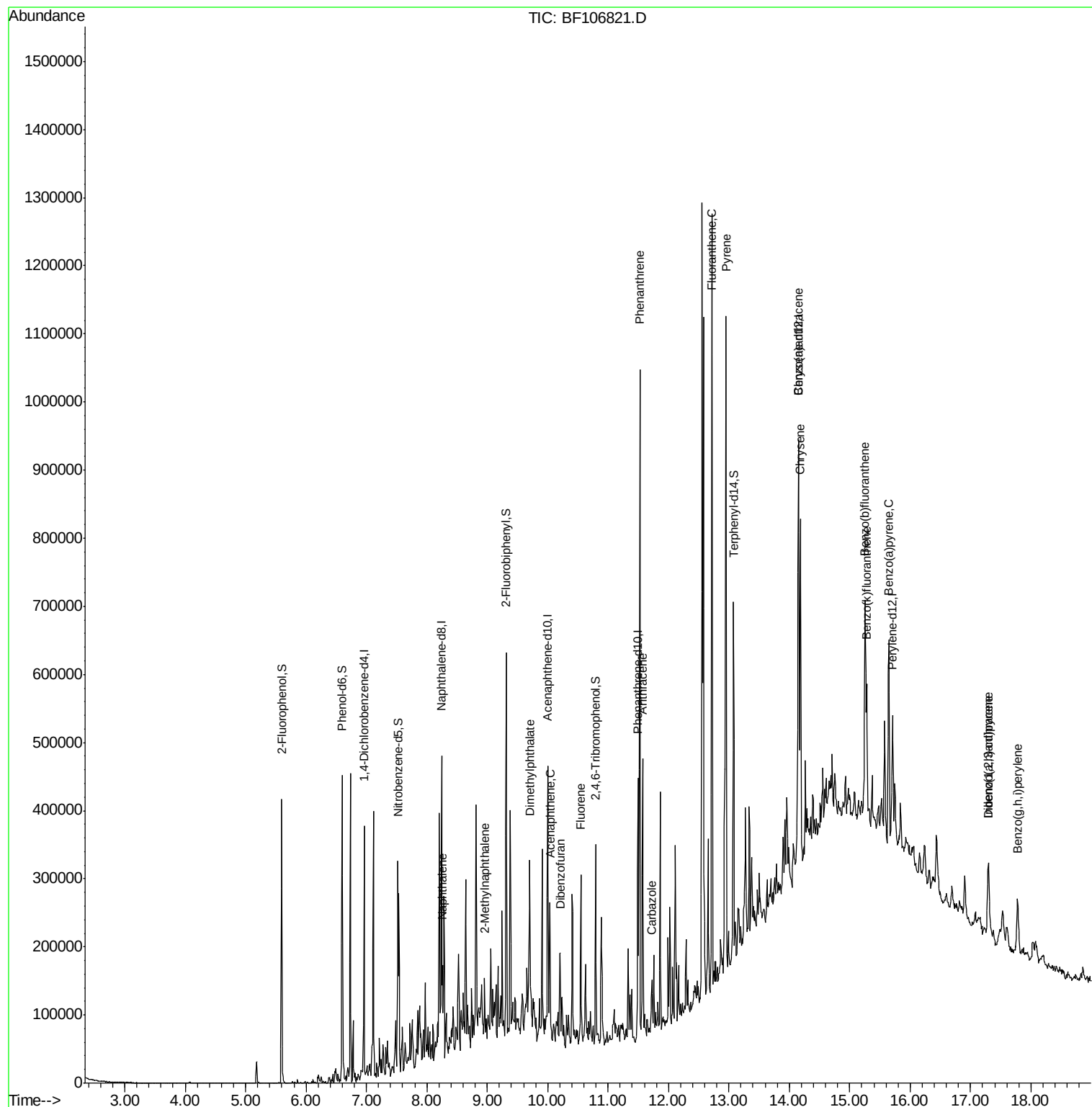
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062618\
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ALS Vial : 9 Sample Multiplier: 1

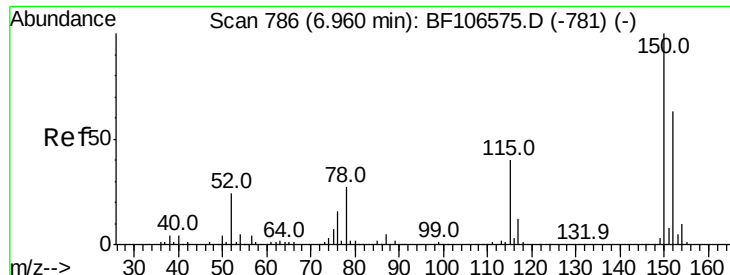
Instrument :
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HR-06-062218-A

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#1

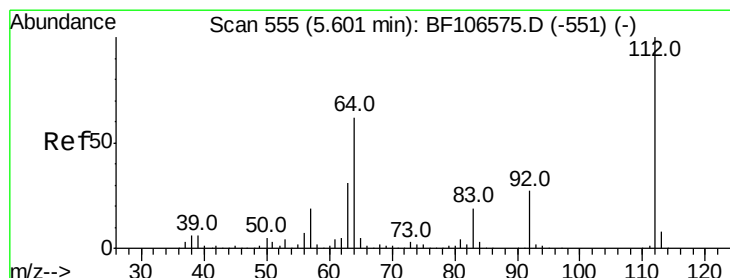
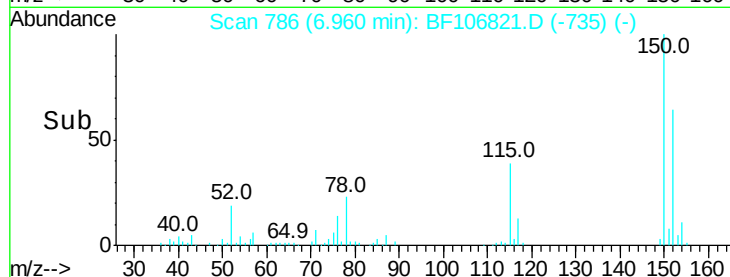
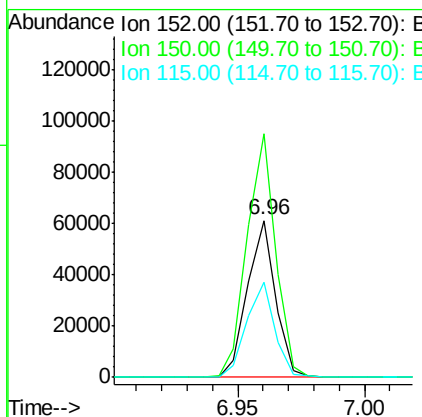
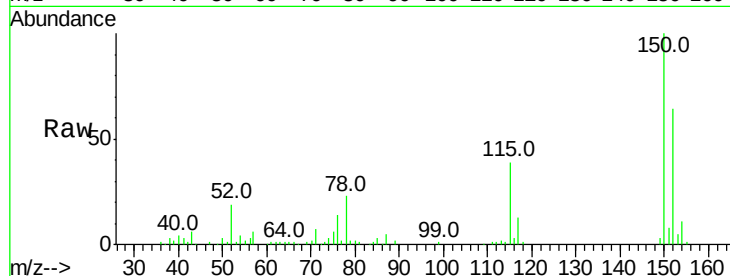
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. 0.00 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.3	124.6	186.8
115	60.3	50.1	75.1

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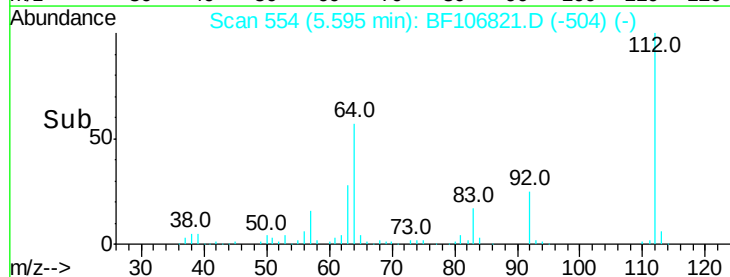
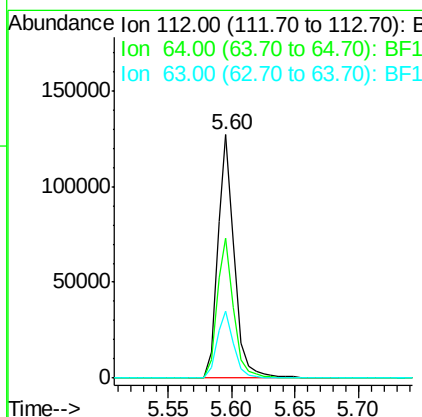
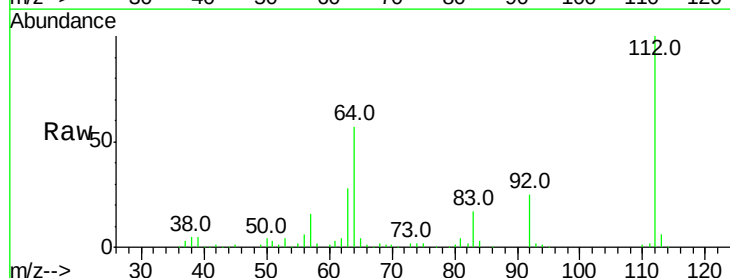
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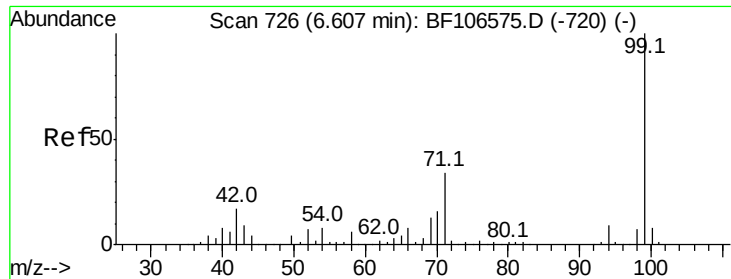


#5

2-Fluorophenol
Concen: 41.206 ng
RT: 5.60 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	47.9	71.9
63	27.5	23.7	35.5





#7

Phenol-d6

Concen: 41.244 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Instrument :

BNA_F

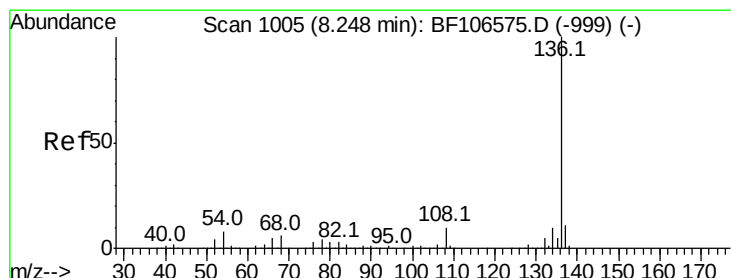
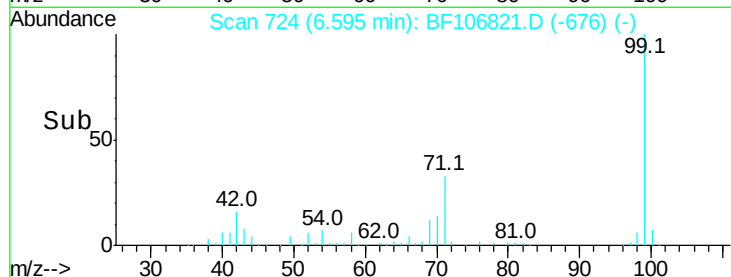
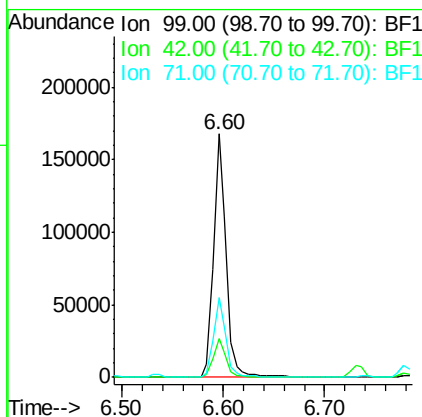
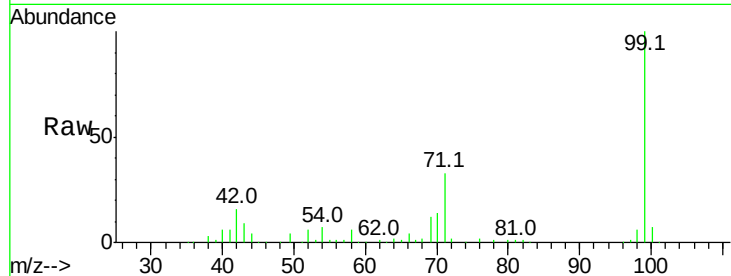
ClientSampleId :

HR-06-062218-A

Tot Ion:	99	Resp:	144641
Ion Ratio	Lower	Upper	
99	100		
42	15.9	14.5	21.7
71	33.0	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

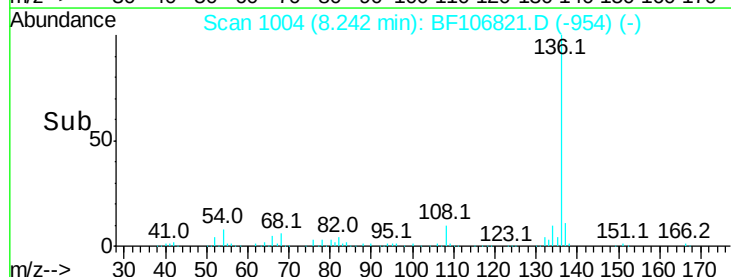
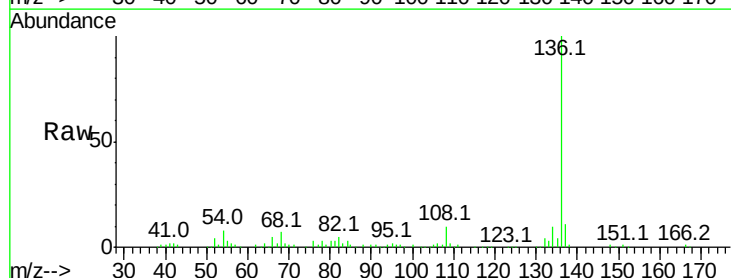
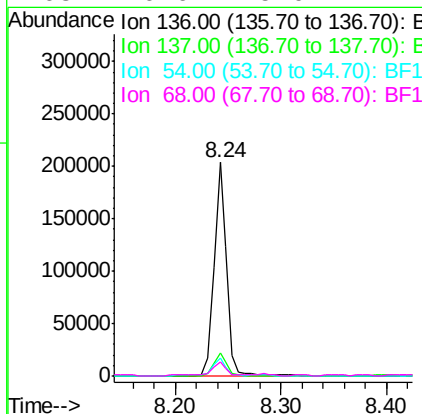
RT: 8.24 min Scan# 1004

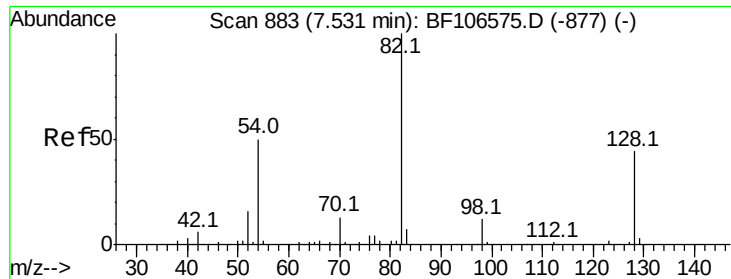
Delta R.T. -0.01 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Tgt Ion:	136	Resp:	171602
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	8.2	6.6	9.8
68	6.6	5.0	7.4





#23

Nitrobenzene-d5

Concen: 26.815 ng

RT: 7.52 min Scan# 881

Delta R.T. -0.02 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Instrument :

BNA_F

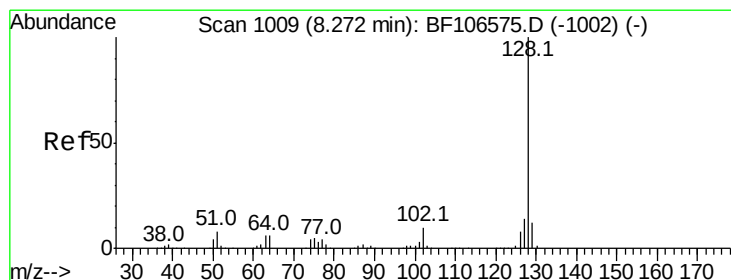
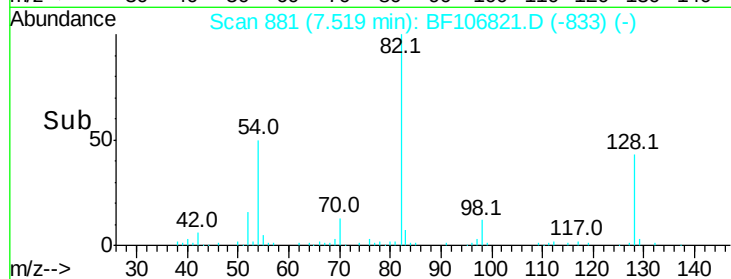
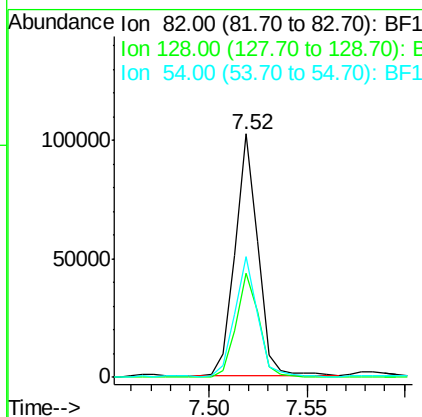
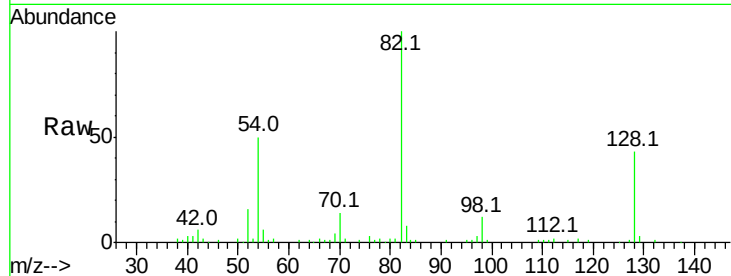
ClientSampleId :

HR-06-062218-A

Tot Ion:	82	Resp:	82801
Ion Ratio	Lower	Upper	
82	100		
128	42.8	36.1	54.1
54	49.6	41.4	62.2

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#31

Naphthalene

Concen: 4.795 ng

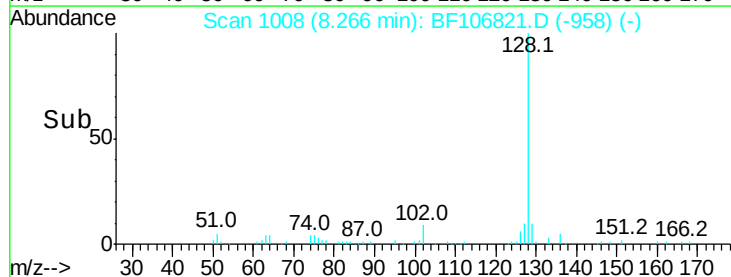
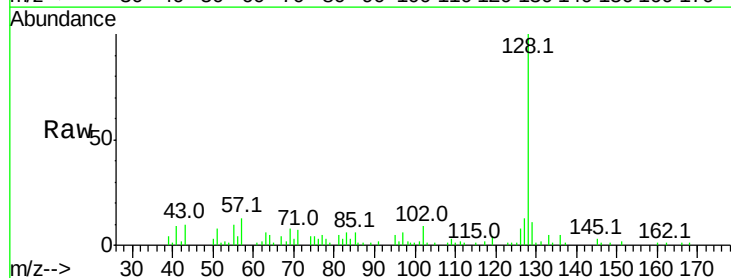
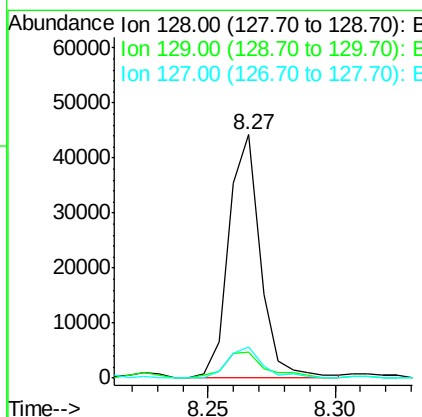
RT: 8.27 min Scan# 1008

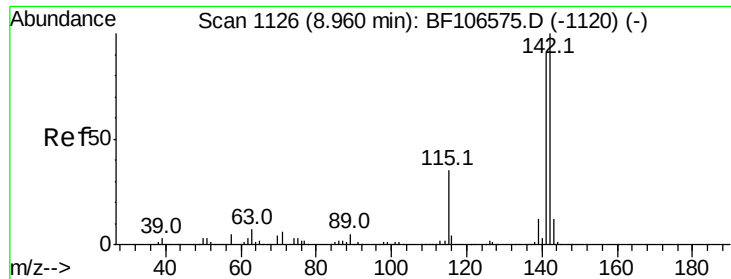
Delta R.T. -0.01 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Tgt Ion:	128	Resp:	38469
Ion Ratio	Lower	Upper	
128	100		
129	10.6	8.8	13.2
127	12.6	10.9	16.3





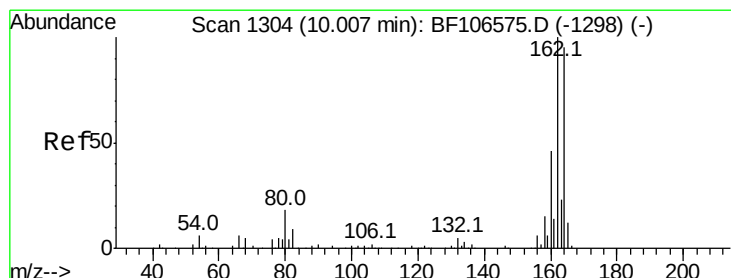
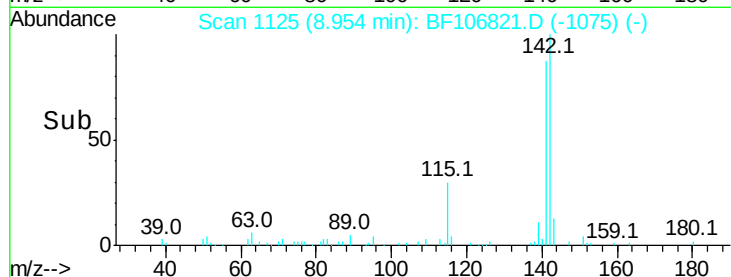
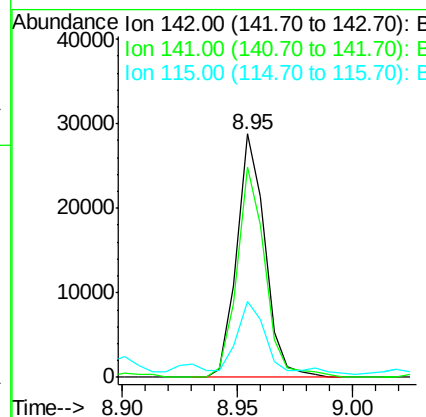
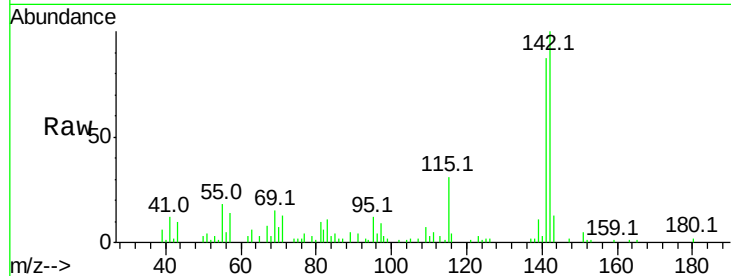
#37
2-Methylnaphthalene
Concen: 4.616 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.8	106.2
115	31.3	26.1	39.1

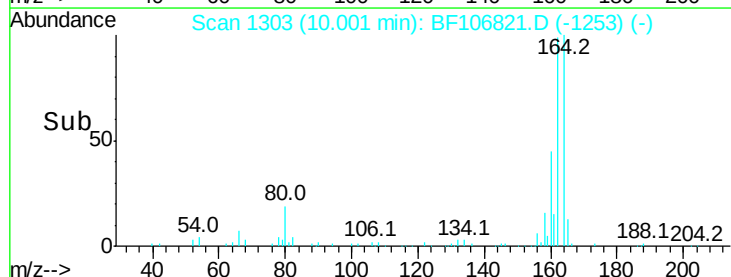
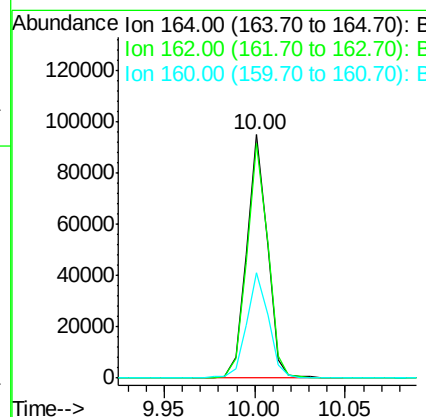
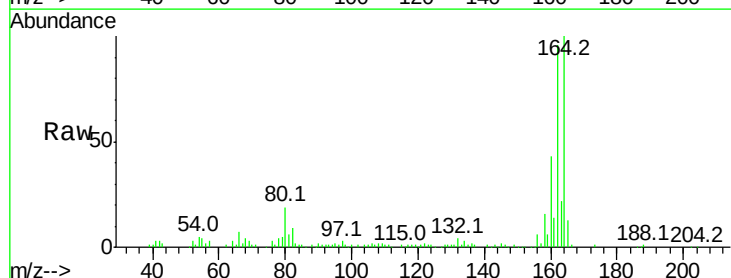
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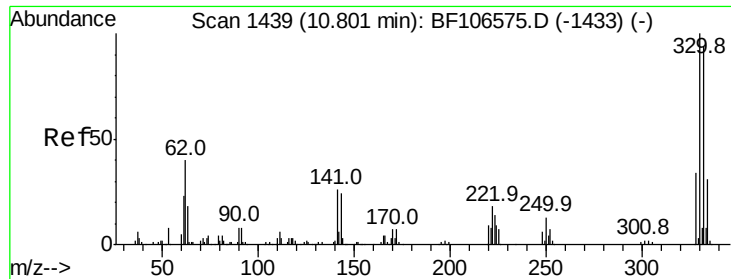
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
164	100		
162	96.4	86.1	129.1
160	43.2	38.3	57.5





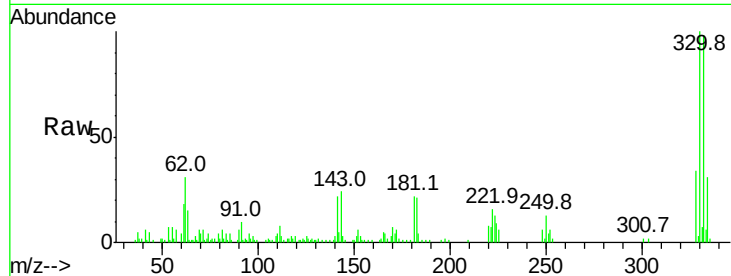
#41
 2,4,6-Tribromophenol
 Concen: 40.228 ng
 RT: 10.80 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF106821.D
 Acq: 26 Jun 2018 14:35

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.6	77.0	115.6	
141	25.1	29.9	44.9	

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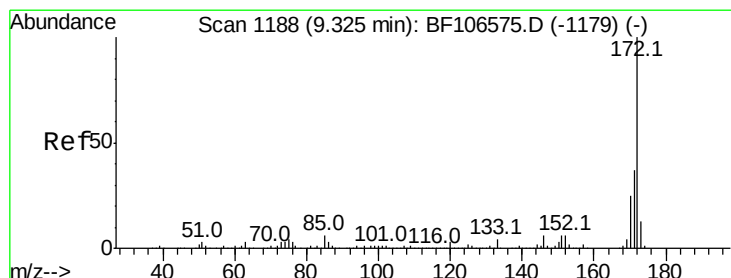
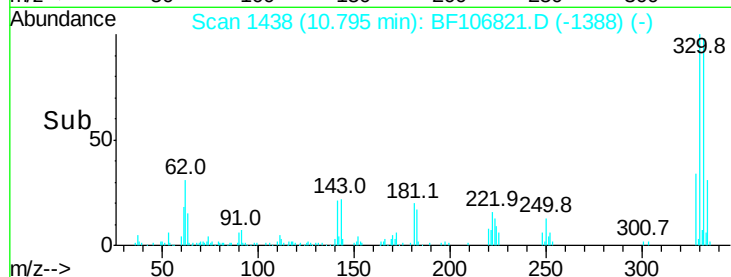
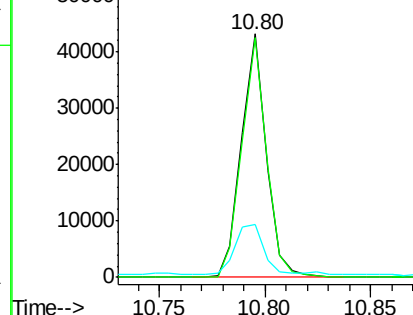


Abundance

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: 26.948 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF106821.D
 Acq: 26 Jun 2018 14:35

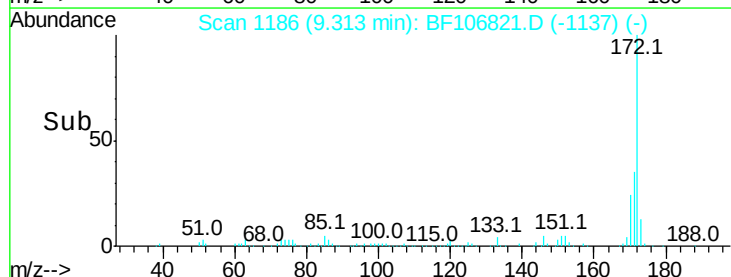
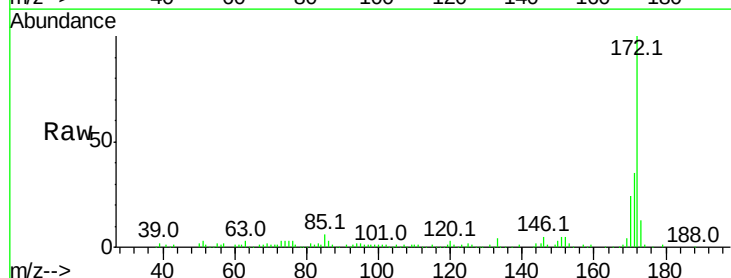
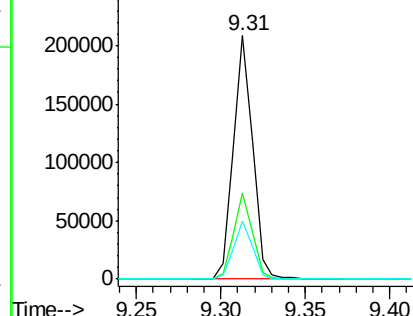
Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.4	29.7	44.5	
170	23.7	19.6	29.4	

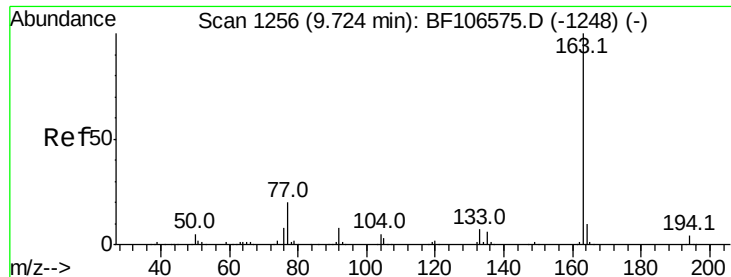
Abundance

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





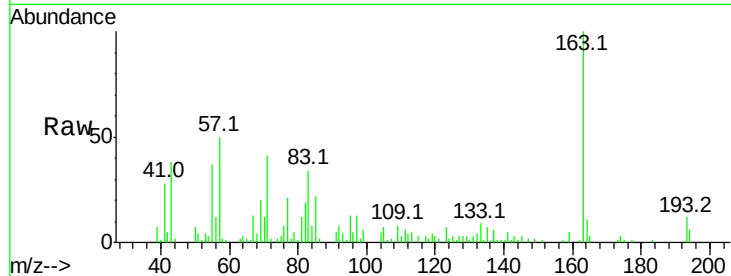
#49
Dimethylphthalate
Concen: 4.113 ng
RT: 9.71 min Scan# 1253
Delta R.T. -0.02 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

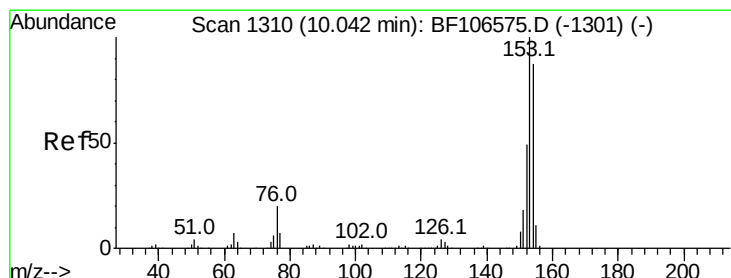
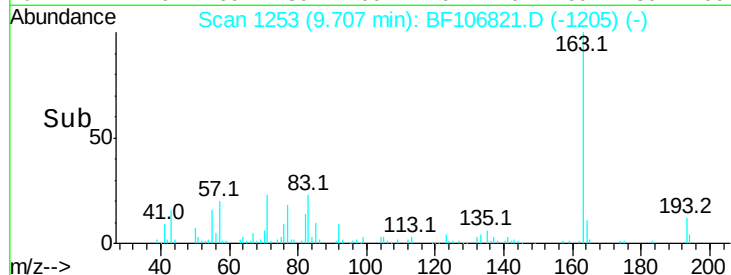
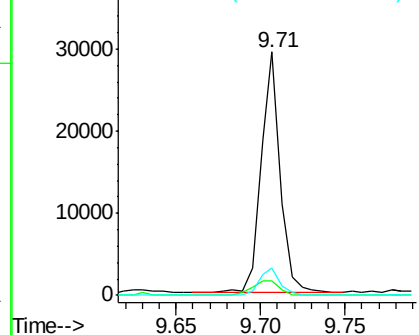
Tot Ion	Ratio	Lower	Upper
163	100		
194	5.8	2.7	4.1#
164	11.2	8.2	12.2

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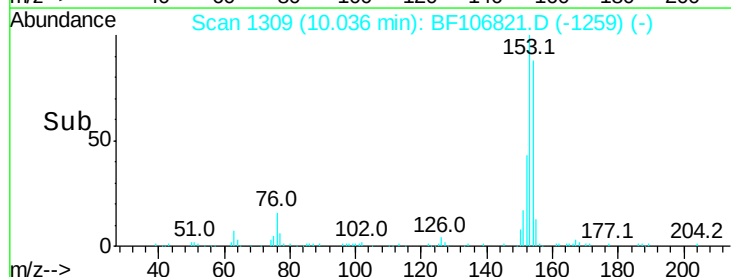
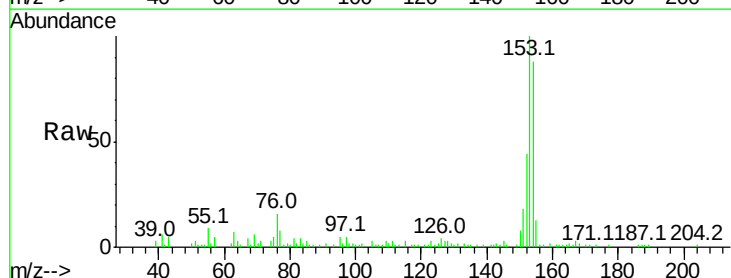
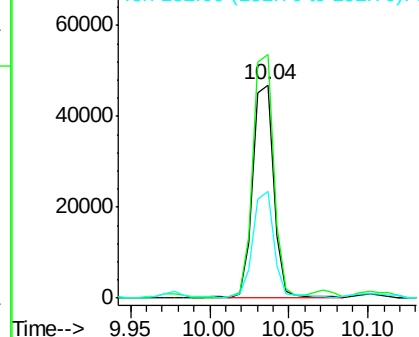
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

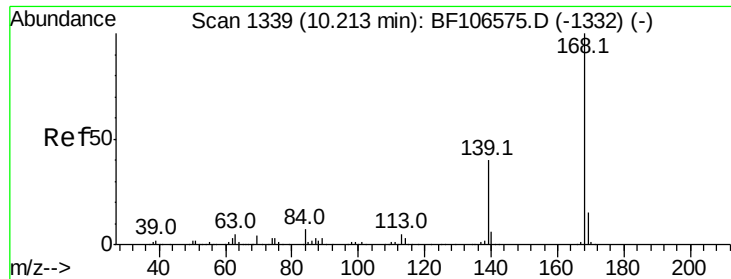


#51
Acenaphthene
Concen: 9.260 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.1	91.2	136.8
152	50.0	43.8	65.8

Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 7.197 ng

RT: 10.21 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Instrument :

BNA_F

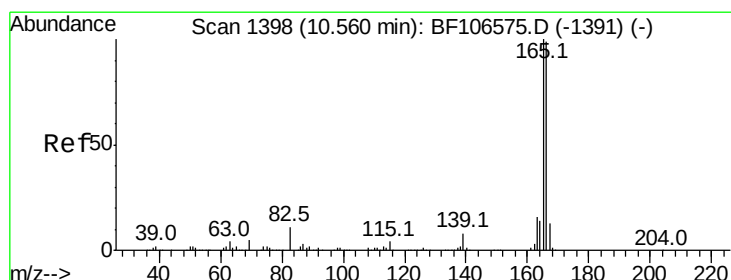
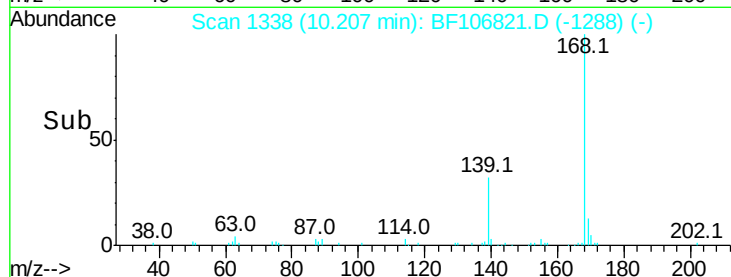
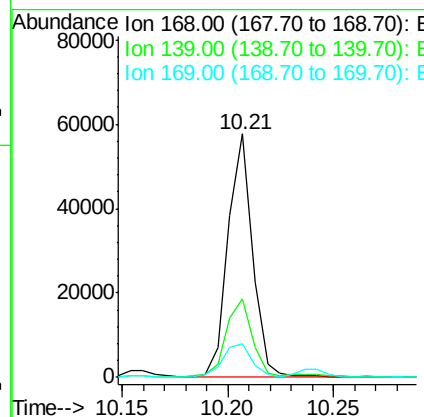
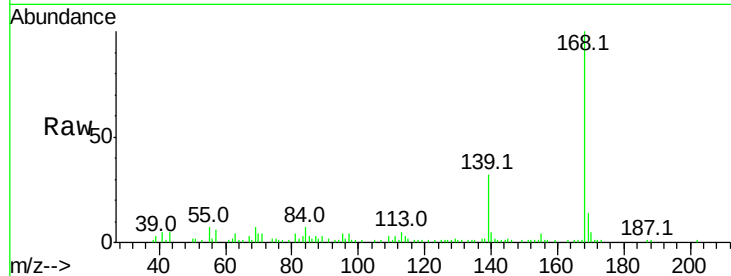
ClientSampleId :

HR-06-062218-A

Tot Ion:	168	Resp:	46373
Ion Ratio	Lower	Upper	
168	100		
139	32.2	30.1	45.1
169	14.1	10.9	16.3

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#57

Fluorene

Concen: 13.260 ng

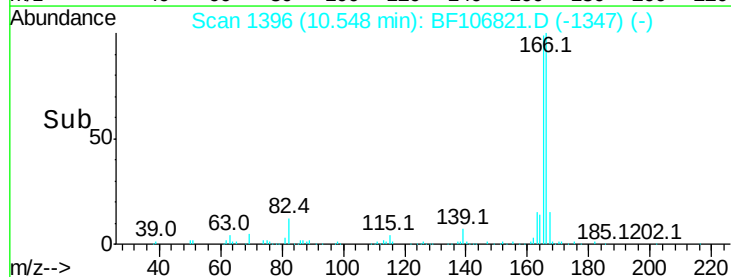
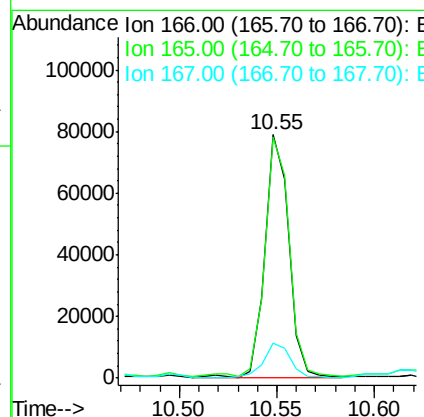
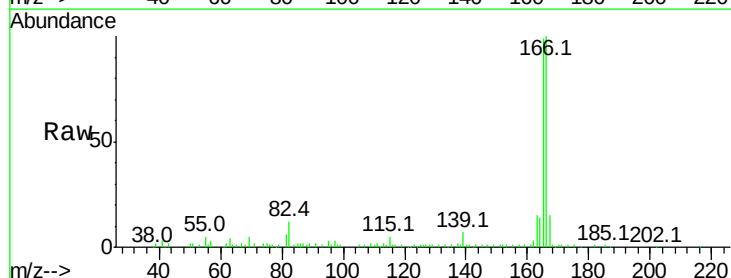
RT: 10.55 min Scan# 1396

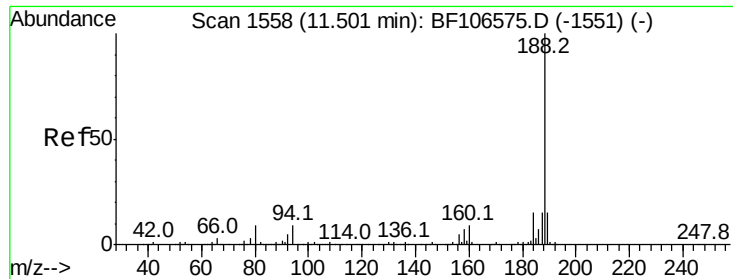
Delta R.T. -0.01 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Tgt Ion:	166	Resp:	67800
Ion Ratio	Lower	Upper	
166	100		
165	99.0	79.8	119.8
167	14.6	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1557

Delta R.T. -0.01 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Instrument :

BNA_F

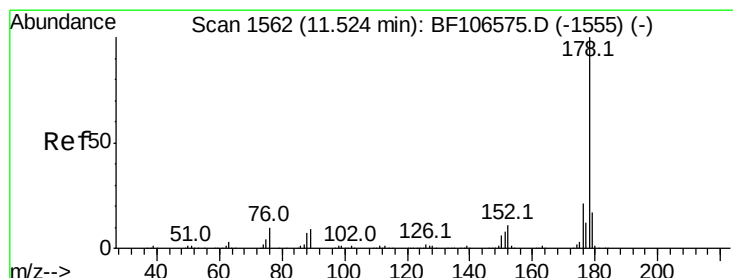
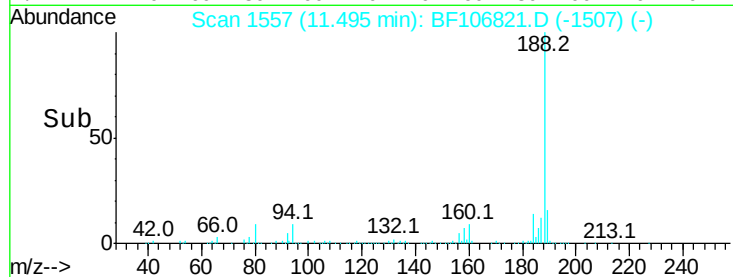
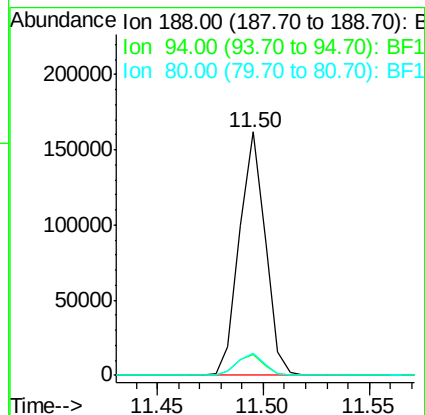
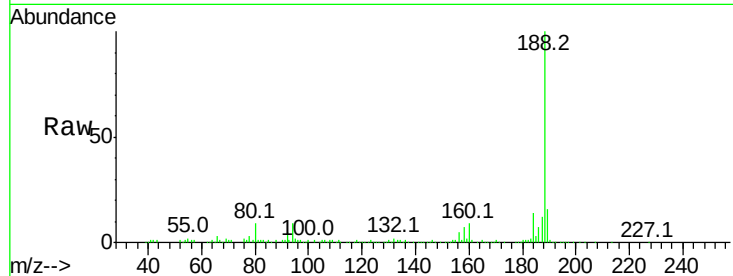
ClientSampleId :

HR-06-062218-A

Tot Ion:	188	Resp:	137019
Ion Ratio	Lower	Upper	
188	100		
94	8.5	8.5	12.7
80	9.1	9.2	13.8#

Manual Integrations
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Sohil
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#70

Phenanthrene

Concen: 61.105 ng

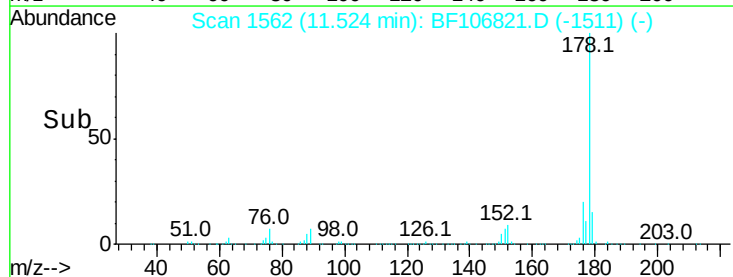
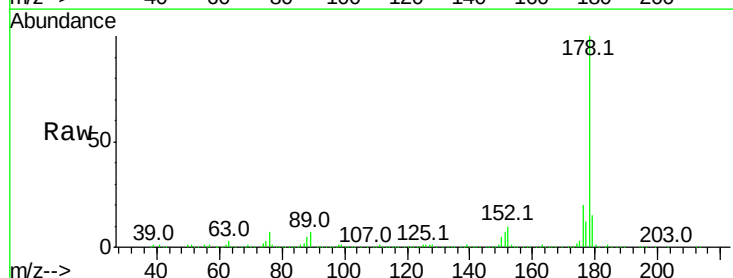
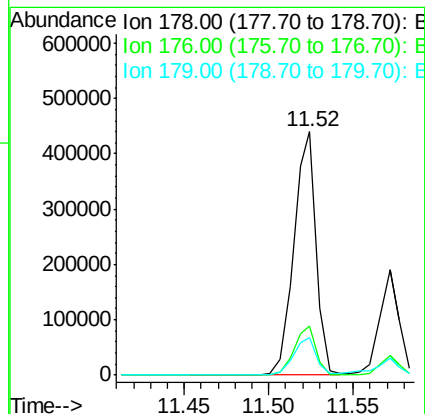
RT: 11.52 min Scan# 1562

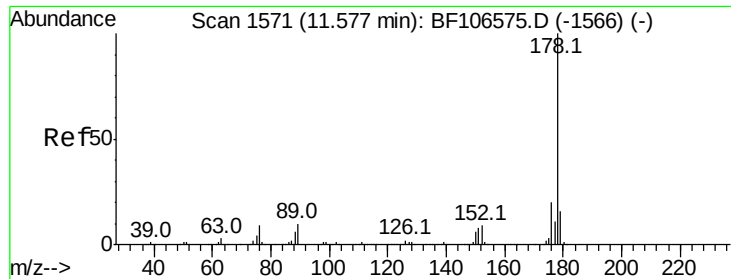
Delta R.T. -0.00 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Tgt Ion:	178	Resp:	403822
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.8	23.8
179	15.5	13.0	19.6





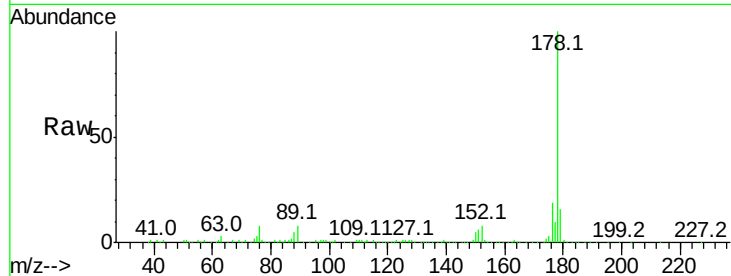
#71
 Anthracene
 Concen: 22.052 ng
 RT: 11.57 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: BF106821.D
 Acq: 26 Jun 2018 14:35

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.6	12.6	19.0

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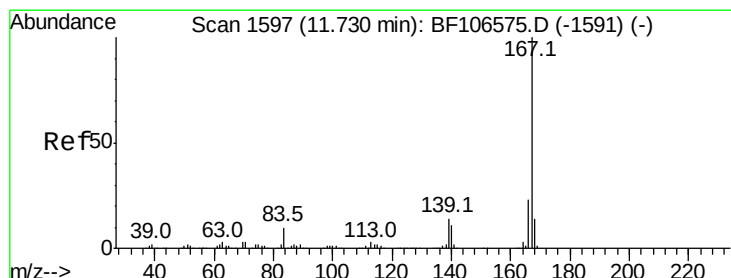
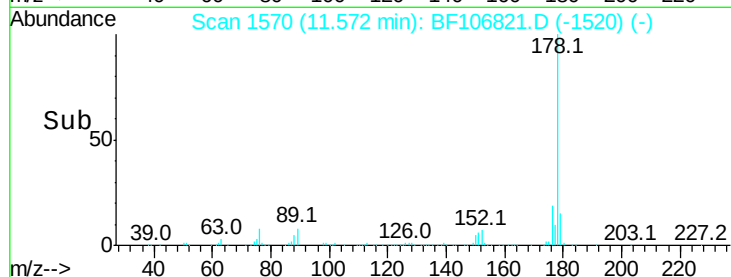
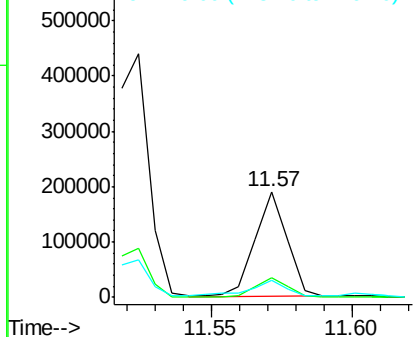


Abundance

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



#72
 Carbazole
 Concen: 4.351 ng
 RT: 11.72 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: BF106821.D
 Acq: 26 Jun 2018 14:35

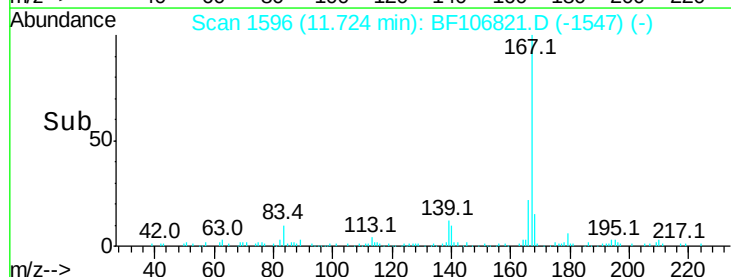
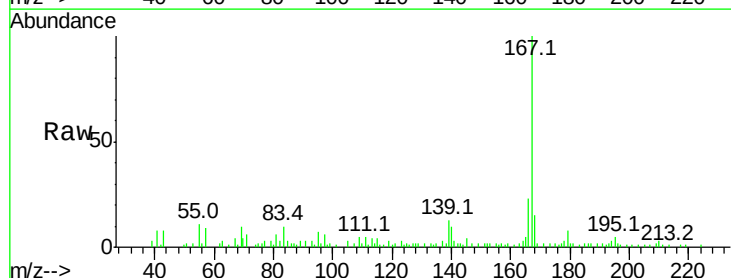
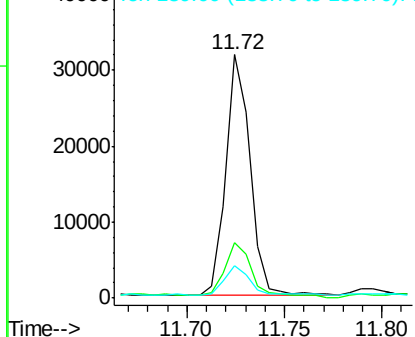
Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.0	17.6	26.4
139	13.3	10.9	16.3

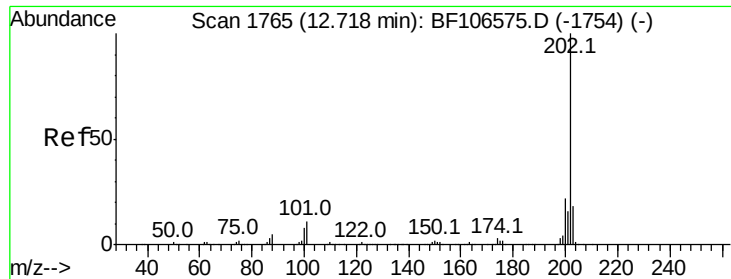
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 74.539 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.00 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Instrument :

BNA_F

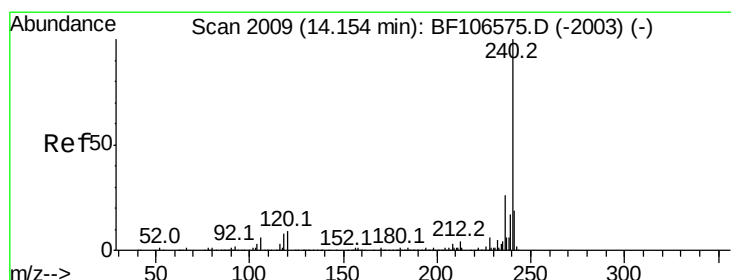
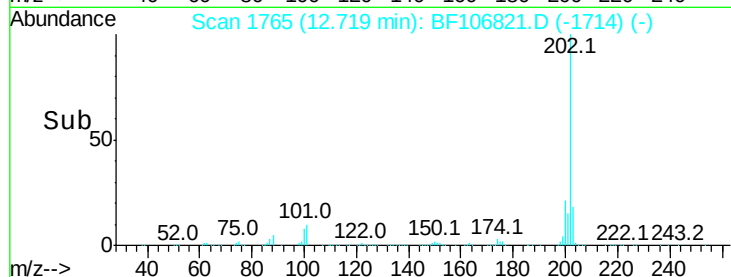
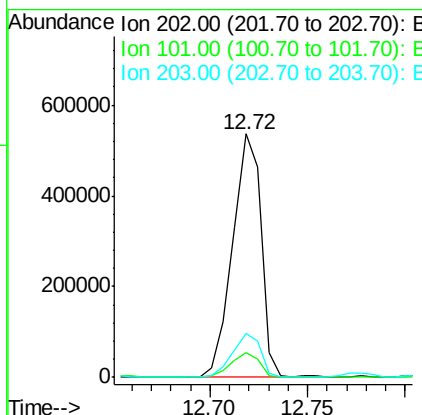
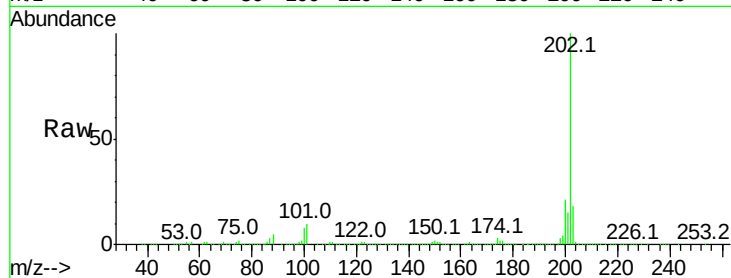
ClientSampleId :

HR-06-062218-A

Tot Ion:	202	Resp:	542949
Ion Ratio	Lower	Upper	
202	100		
101	10.4	0.0	34.1
203	17.9	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

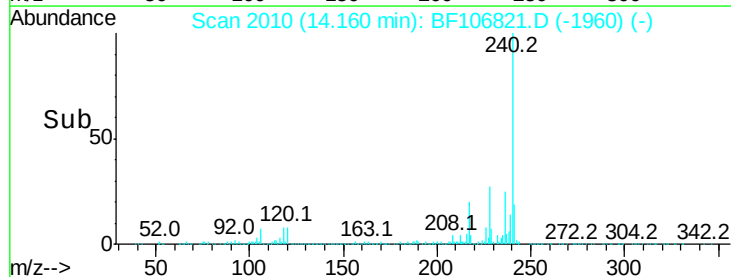
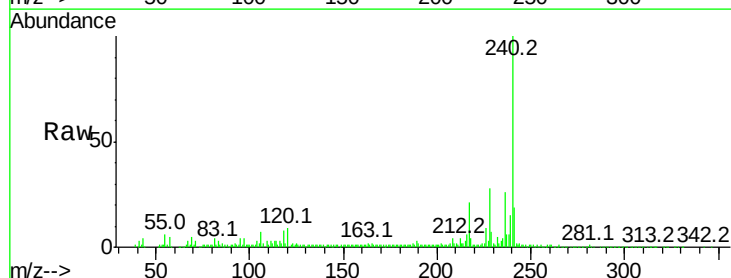
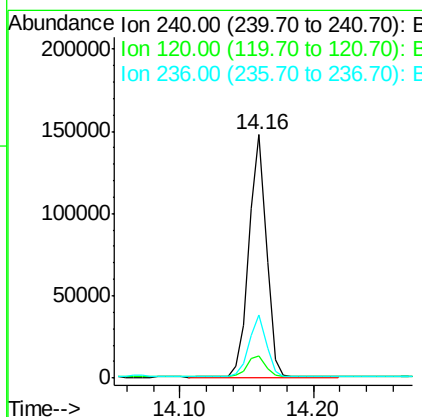
RT: 14.16 min Scan# 2010

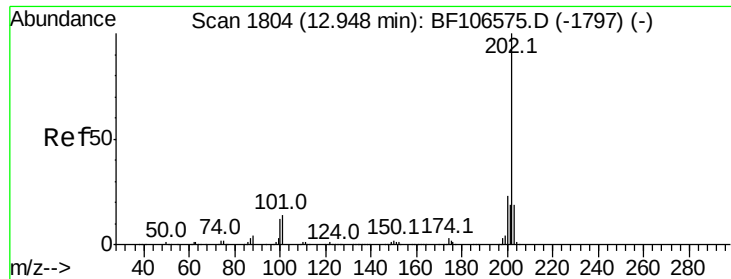
Delta R.T. -0.01 min

Lab File: BF106821.D

Acq: 26 Jun 2018 14:35

Tgt Ion:	240	Resp:	131215
Ion Ratio	Lower	Upper	
240	100		
120	9.0	9.5	14.3#
236	25.7	20.7	31.1





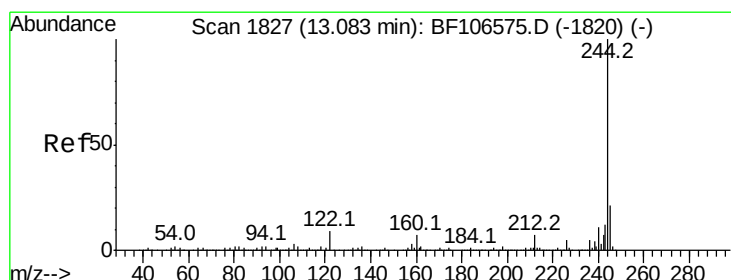
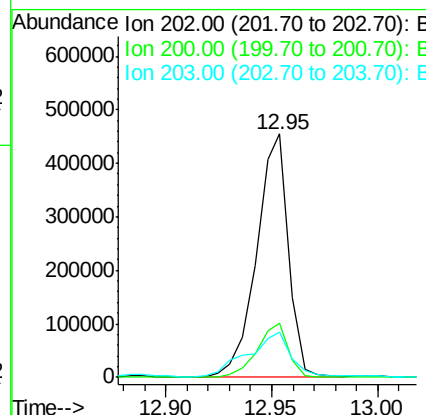
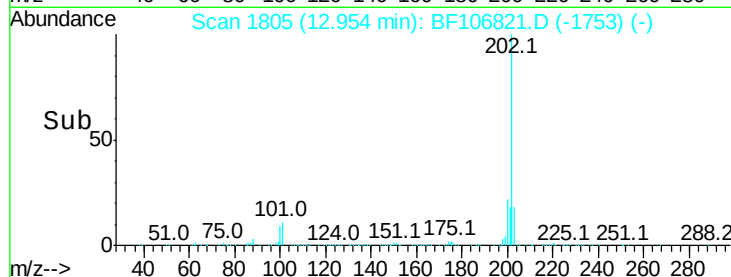
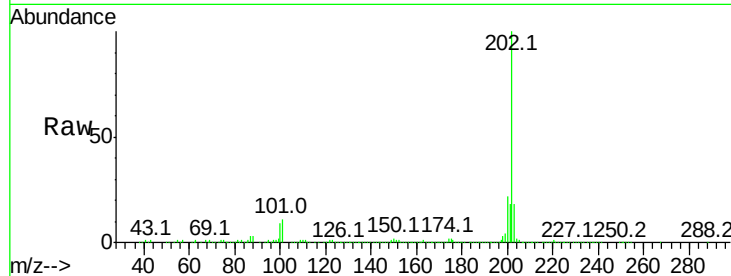
#77
Pvrene
Concen: 54.805 ng
RT: 12.95 min Scan# 1805
Delta R.T. 0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.4	26.2
203	18.4	14.3	21.5

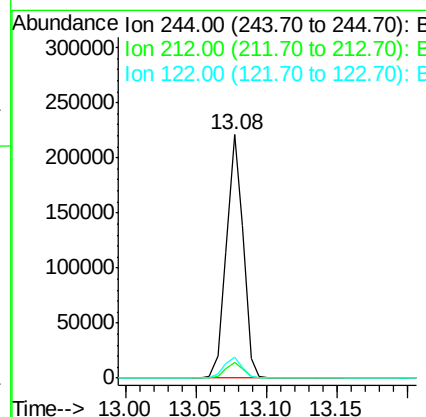
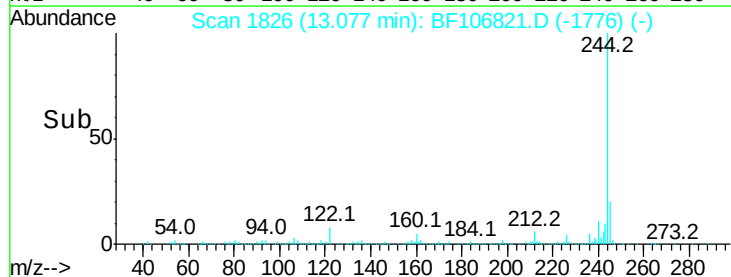
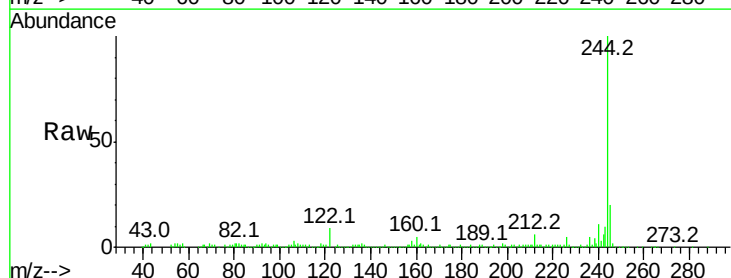
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APPROVED

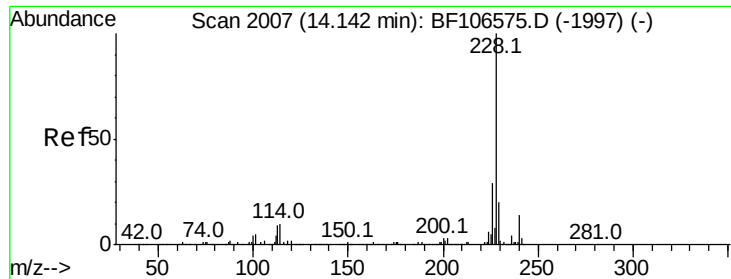
Sohil
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#78
Terphenyl-d14
Concen: 33.766 ng
RT: 13.08 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	8.5	11.0	16.4





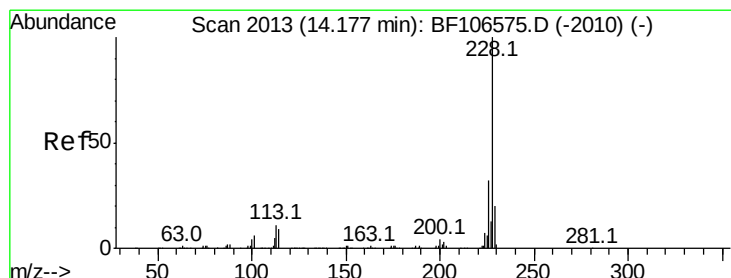
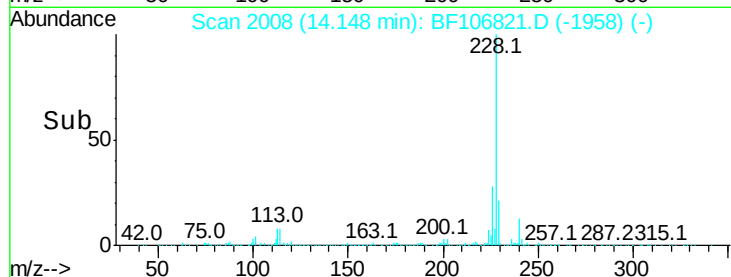
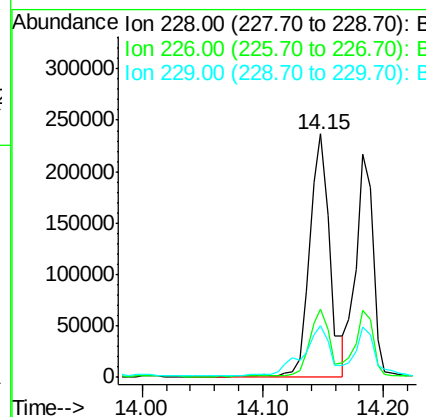
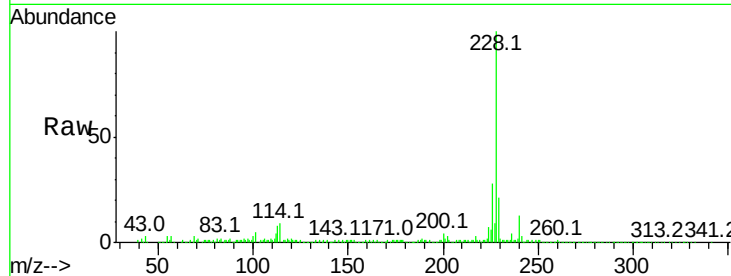
#80
Benzo(a)anthracene
Concen: 34.327 ng
RT: 14.15 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	21.4	15.8	23.6

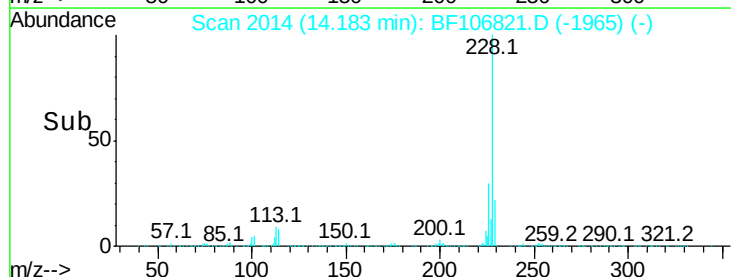
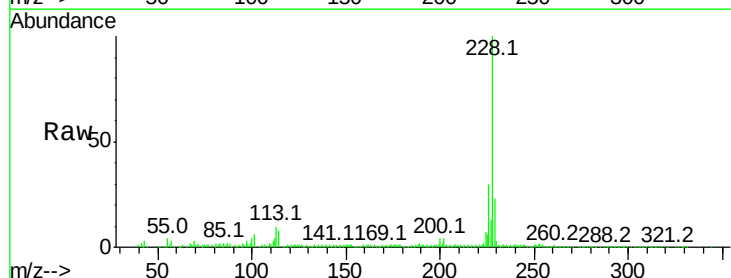
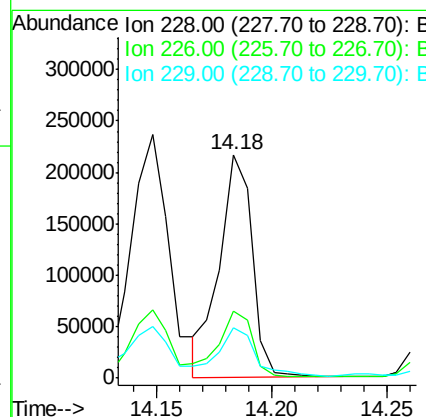
Manual Integrations
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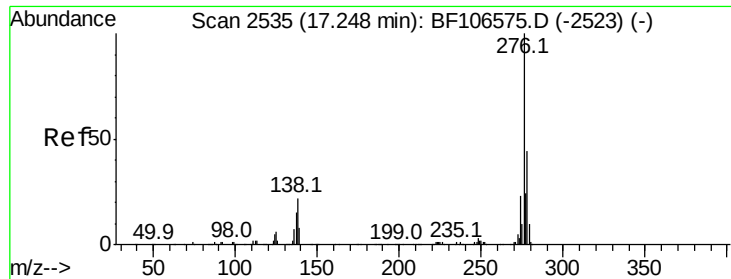
Sohil
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#82
Chrysene
Concen: 29.060 ng
RT: 14.18 min Scan# 2014
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.0	37.6
229	22.6	16.2	24.4





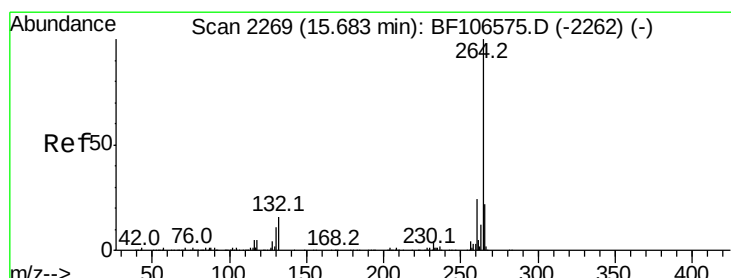
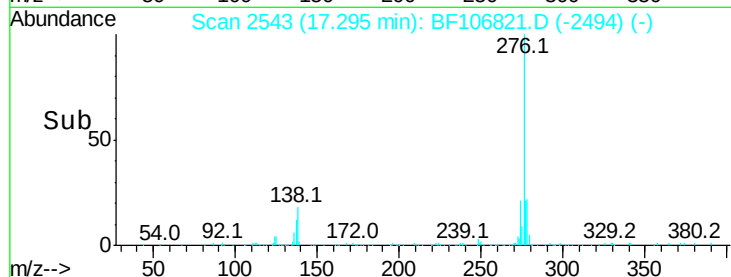
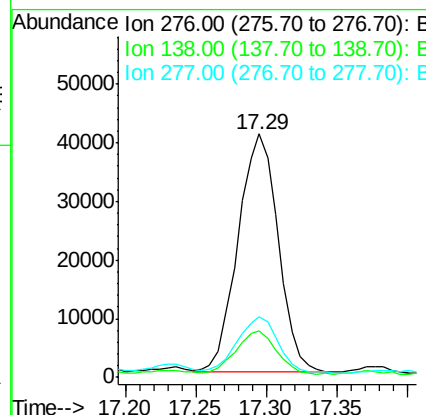
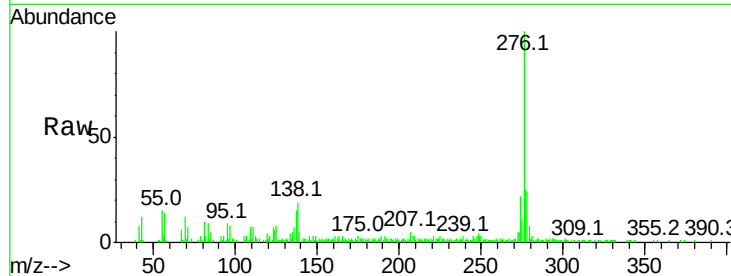
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.956 ng
RT: 17.29 min Scan# 2543
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.2	25.0	37.6#
277	24.4	20.1	30.1

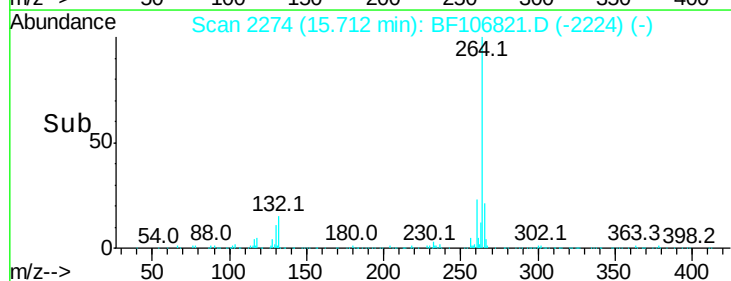
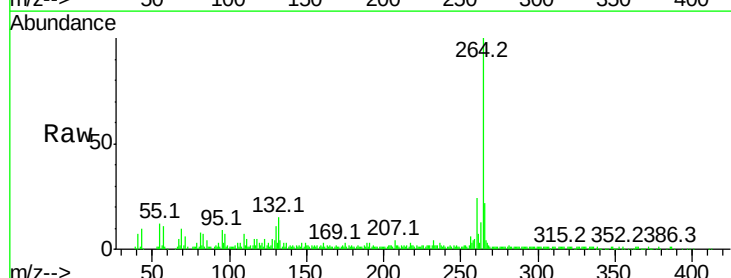
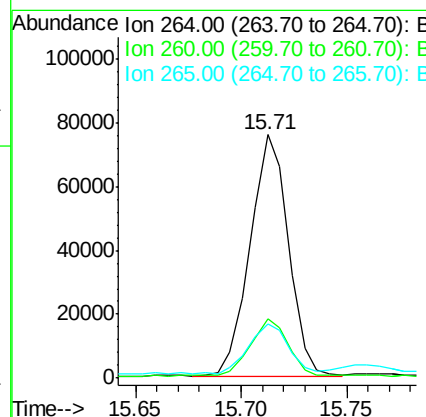
Manual Integrations
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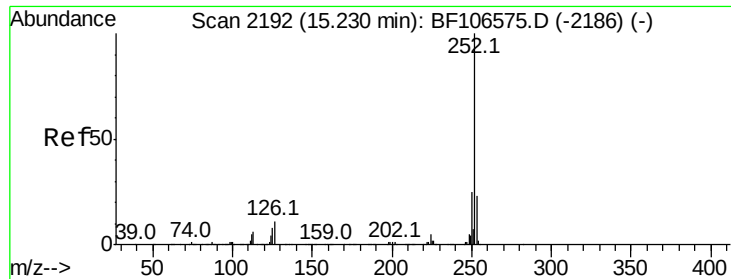
Sohil
6/27/2018 2:13:59 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.71 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.0	17.5	26.3





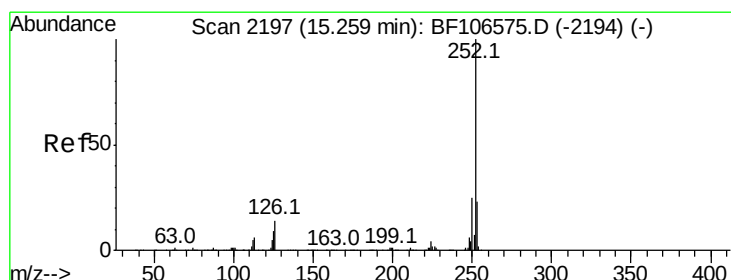
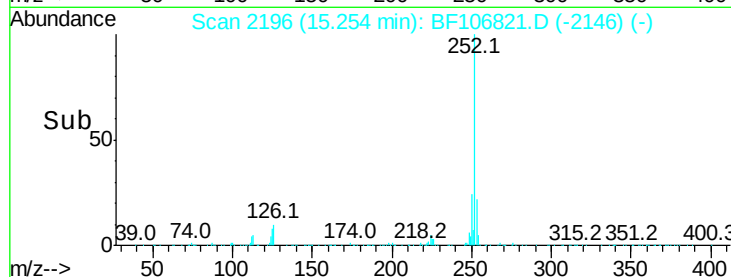
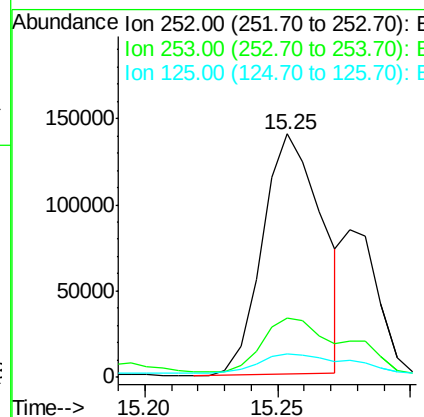
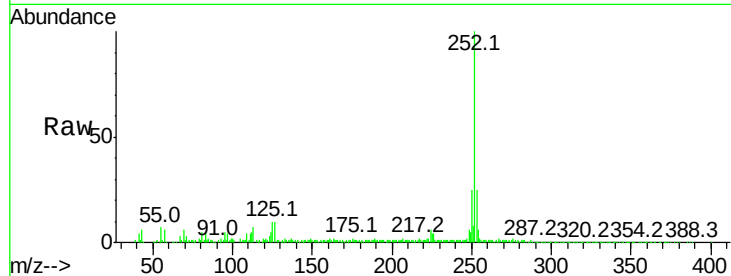
#87
Benzo(b)fluoranthene
Concen: 36.800 ng m
RT: 15.25 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.0	25.6
125	9.7	9.0	13.6

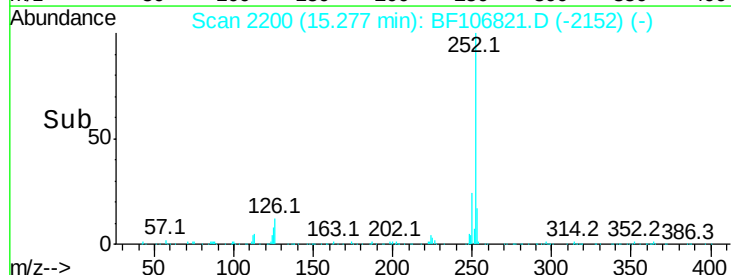
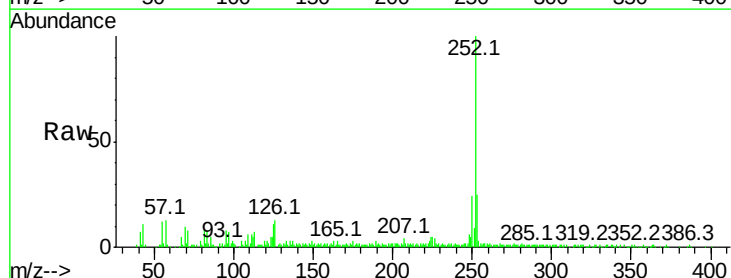
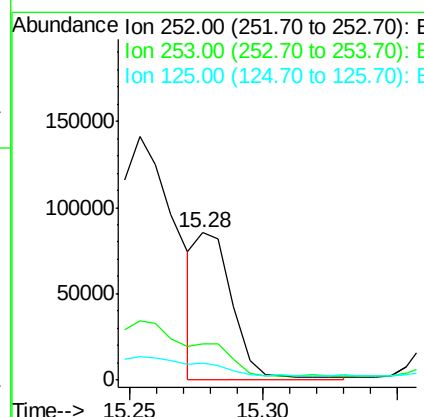
Manual Integrations
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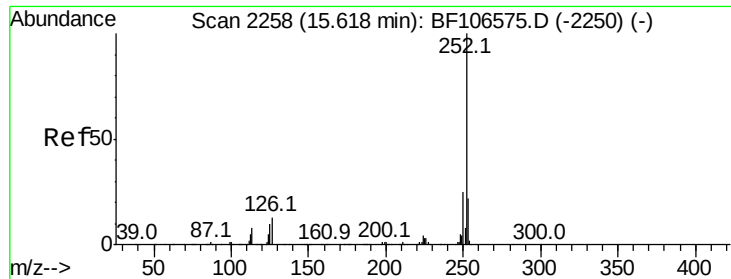
Sohil
6/27/2018 2:13:59 PM



#88
Benzo(k)fluoranthene
Concen: 14.656 ng m
RT: 15.28 min Scan# 2200
Delta R.T. -0.02 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	11.2	10.2	15.2





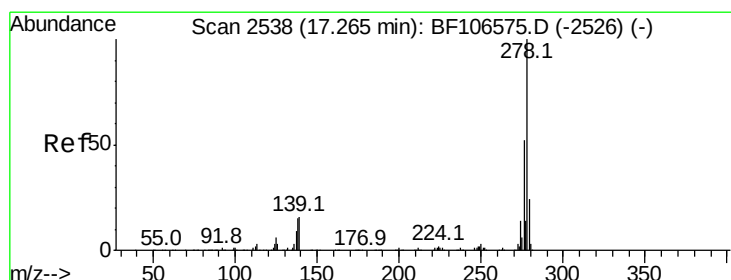
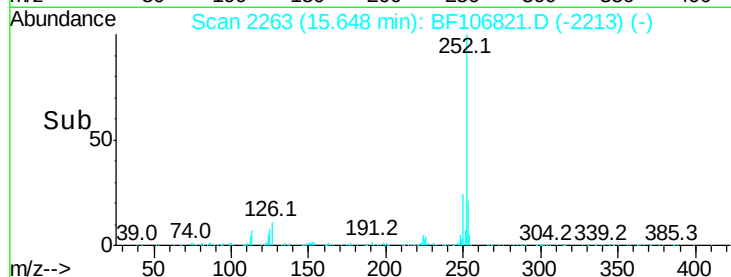
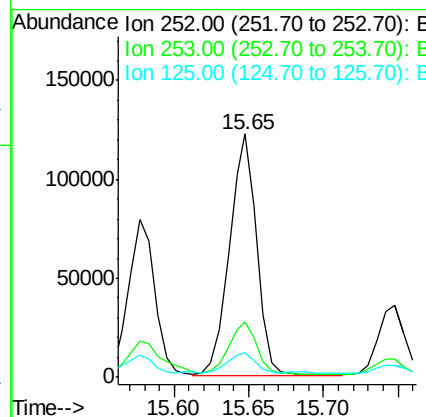
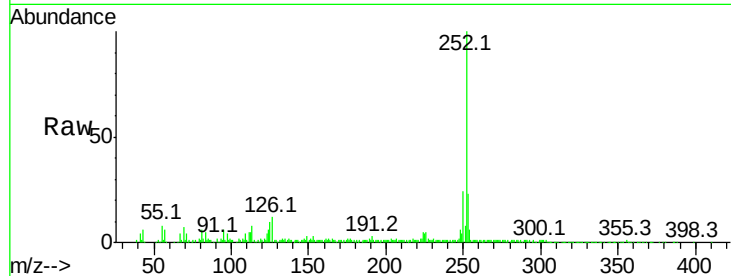
#89
Benzo(a)pyrene
Concen: 29.561 ng
RT: 15.65 min Scan# 2263
Delta R.T. -0.01 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Instrument :
BNA_F
ClientSampleId :
HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	10.4	9.8	14.6

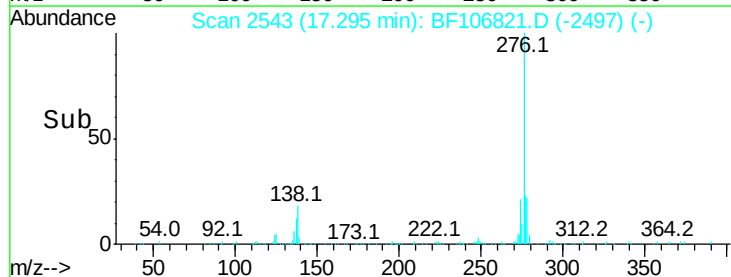
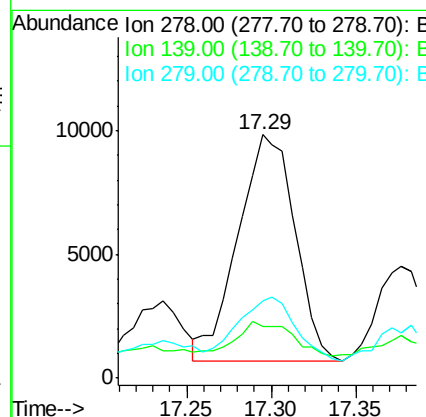
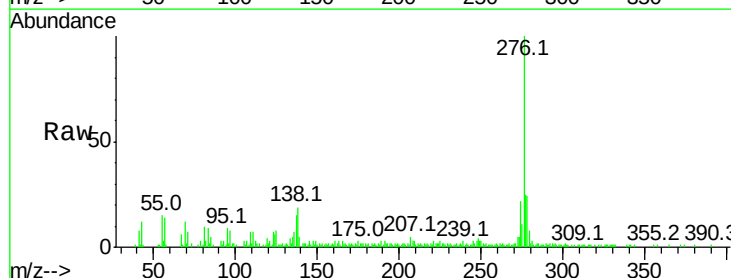
Manual Integrations
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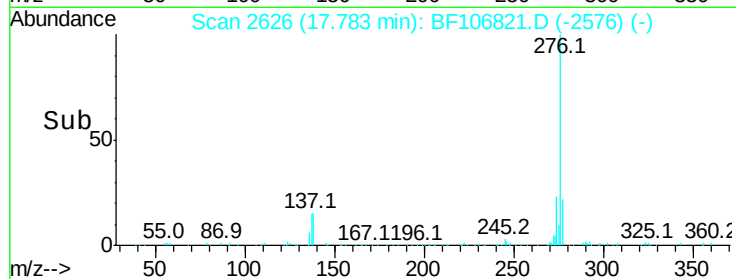
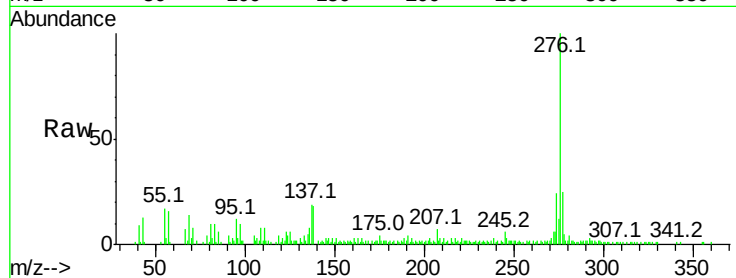
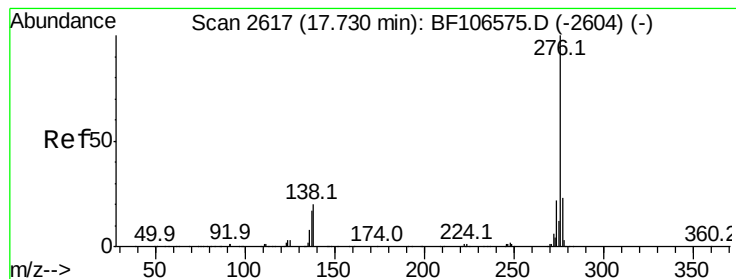
Sohil
6/27/2018 2:13:59 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.784 ng
RT: 17.29 min Scan# 2543
Delta R.T. -0.03 min
Lab File: BF106821.D
Acq: 26 Jun 2018 14:35

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.4	15.9	23.9
279	31.8	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 17.249 ng
 RT: 17.78 min Scan# 2626
 Delta R.T. -0.01 min
 Lab File: BF106821.D
 Acq: 26 Jun 2018 14:35

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-062218-A

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.4	17.9	26.9
138	17.7	21.8	32.8

Manual Integrations
 APPROVED

Sohil
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