

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
 Data File : BF102761.D
 Acq On : 6 Feb 2018 2:37
 Operator : SJ/JU
 Sample : J1447-03 20X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB98 SW 6

Manual Integrations
 APPROVED

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 2/6/2018 2:26:09 PM

Quant Time: Feb 06 12:49:14 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	210627	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	829544	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	362539	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	542349	20.00	ng	0.00
75) Chrysene-d12	14.05	240	313572	20.00	ng	0.00
86) Perylene-d12	15.53	264	331792	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	87219	6.29	ng	-0.01
7) Phenol-d6	6.49	99	106483	6.38	ng	-0.02
23) Nitrobenzene-d5	7.43	82	61142	5.11	ng	-0.02
41) 2,4,6-Tribromophenol	10.70	330	16719	5.73	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	128984	5.90	ng	-0.01
78) Terphenyl-d14	12.99	244	84461	6.38	ng	-0.01
Target Compounds						
31) Naphthalene	8.18	128	288882	7.128	ng	98
37) 2-Methylnaphthalene	8.87	142	54995	2.073	ng	98
48) Acenaphthylene	9.78	152	482051	12.911	ng	99
54) Dibenzofuran	10.12	168	83446	2.652	ng	98
57) Fluorene	10.46	166	156154	6.820	ng	99
70) Phenanthrene	11.43	178	1245250	41.226	ng	99
71) Anthracene	11.48	178	596073	19.402	ng	99
72) Carbazole	11.63	167	182546	6.065	ng	99
74) Fluoranthene	12.63	202	1705088	56.107	ng	99
77) Pyrene	12.86	202	1568297	63.781	ng	100
80) Benzo(a)anthracene	14.04	228	927259m	47.020	ng	
82) Chrysene	14.07	228	839489m	42.229	ng	
85) Indeno(1,2,3-cd)pyrene	17.02	276	455287	27.614	ng	95
87) Benzo(b)fluoranthene	15.10	252	1260604m	58.602	ng	
88) Benzo(k)fluoranthene	15.12	252	348203m	16.941	ng	
89) Benzo(a)pyrene	15.47	252	903592	46.666	ng	96
90) Dibenzo(a,h)anthracene	17.03	278	125289m	7.972	ng	
91) Benzo(g,h,i)perylene	17.47	276	400881	26.060	ng	99

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

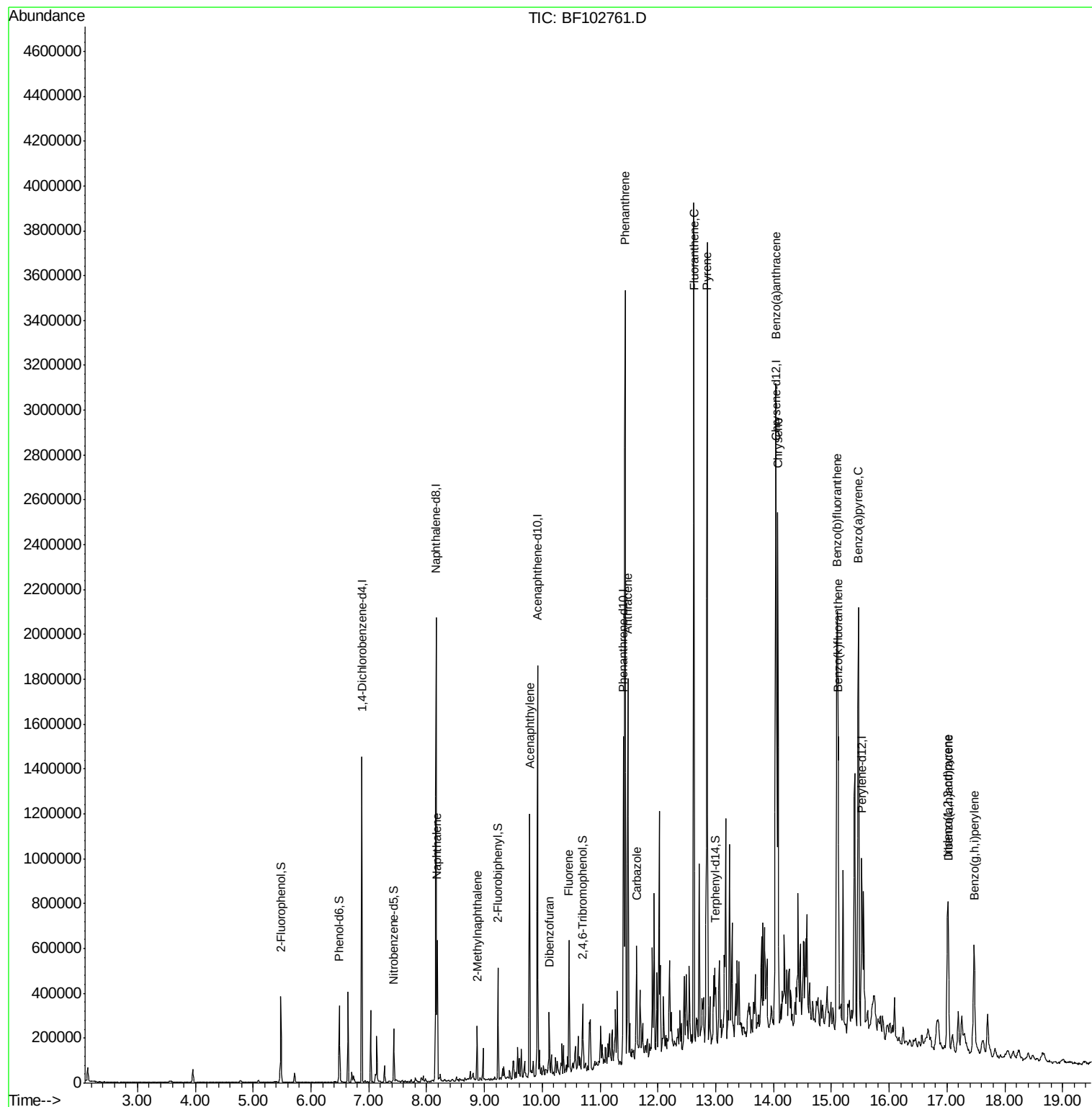
Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
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ALS Vial : 34 Sample Multiplier: 1

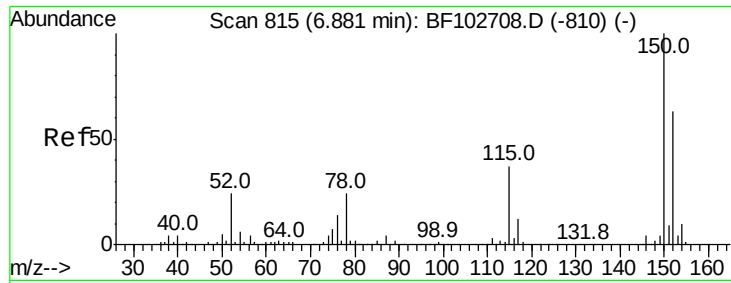
Instrument :
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#1

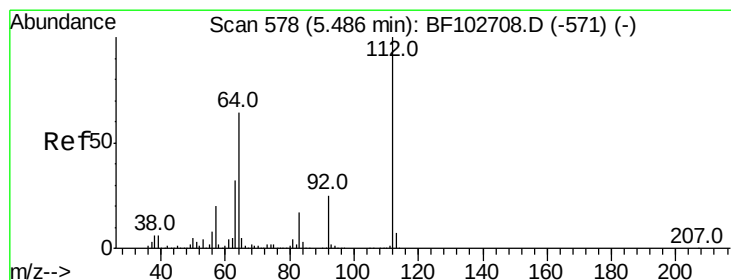
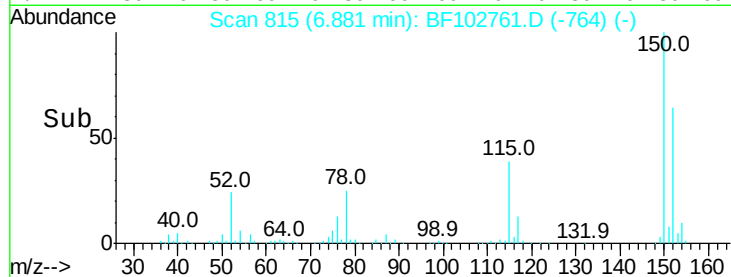
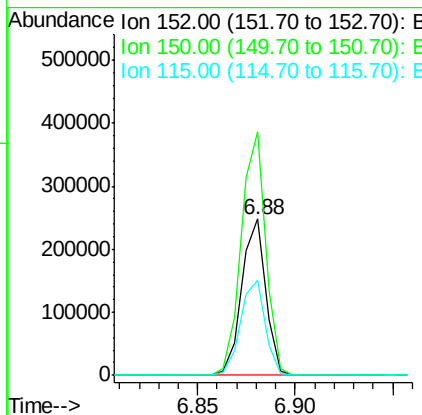
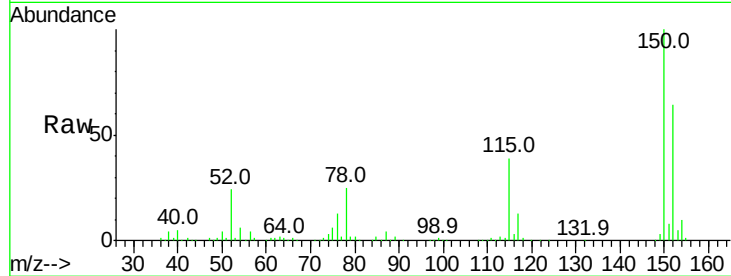
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampled :
A2_SB98_SW_6

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.6	186.8
115	61.4	50.1	75.1

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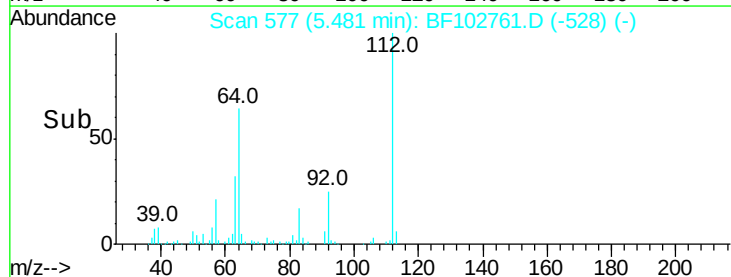
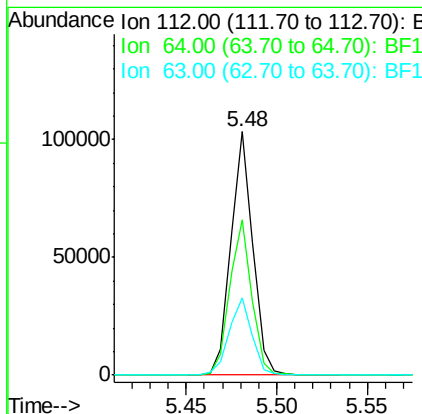
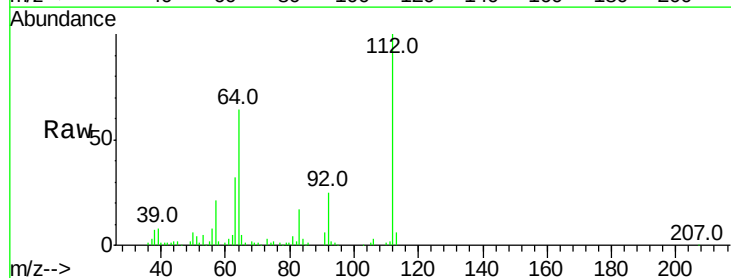
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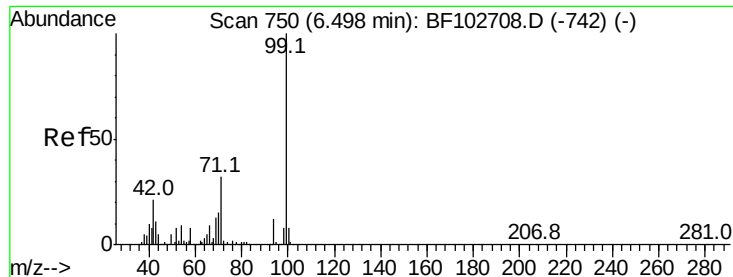


#5

2-Fluorophenol
Concen: 6.289 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	47.9	71.9
63	31.7	23.7	35.5





#7

Phenol-d6

Concen: 6.376 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.02 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Instrument :

BNA_F

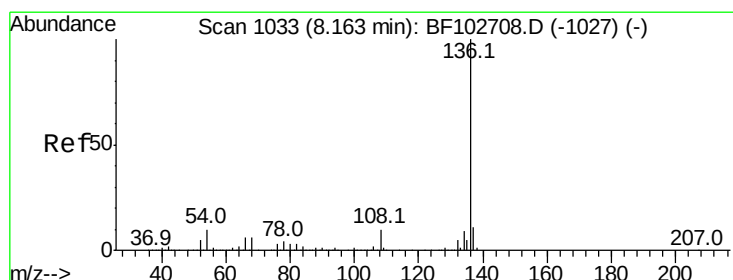
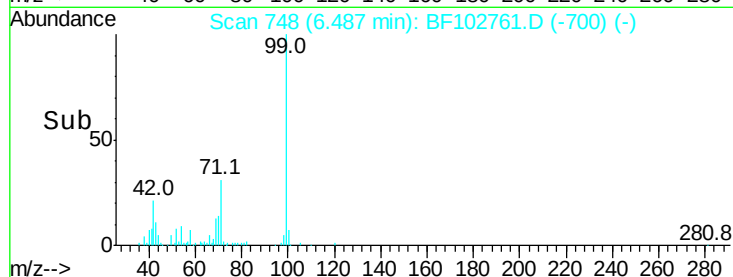
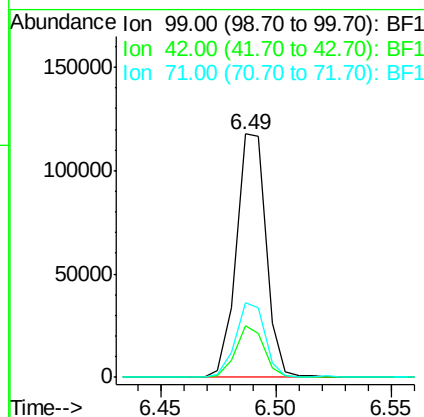
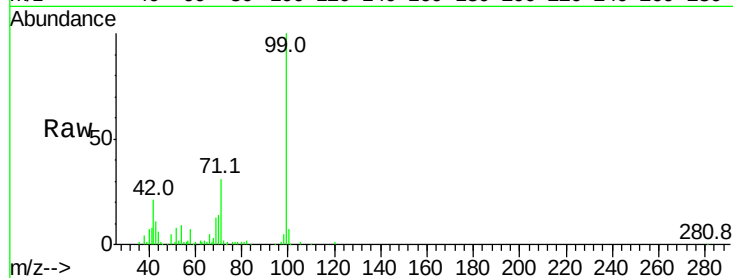
ClientSampleId :

A2_SB98_SW_6

Tot Ion:	99	Resp:	106483
Ion Ratio	Lower	Upper	
99	100		
42	21.2	14.5	21.7
71	30.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

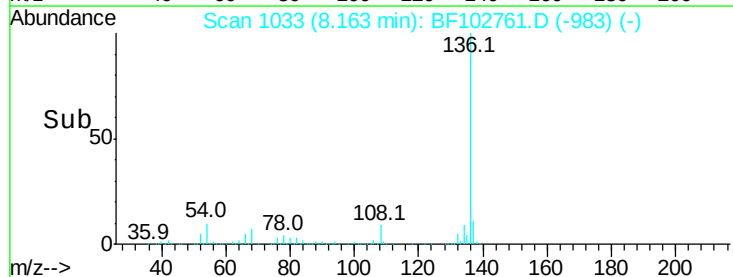
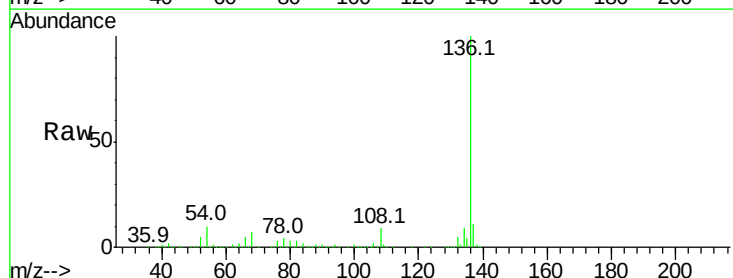
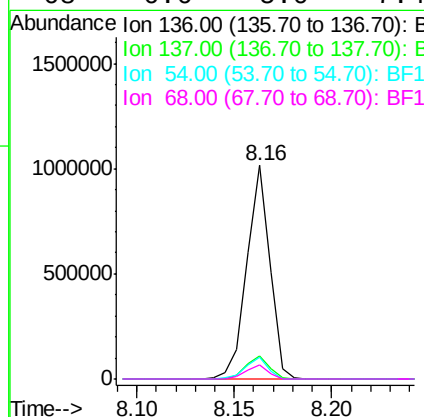
RT: 8.16 min Scan# 1033

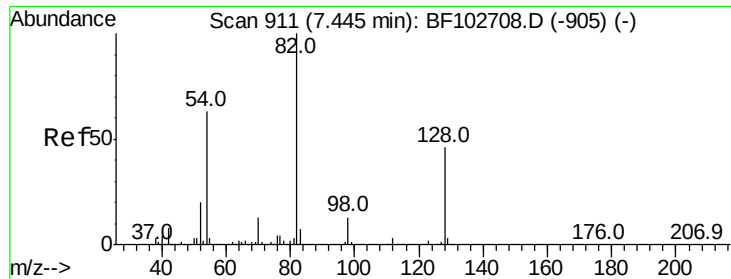
Delta R.T. -0.01 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Tgt Ion:	136	Resp:	829544
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	10.0	6.6	9.8#
68	6.6	5.0	7.4





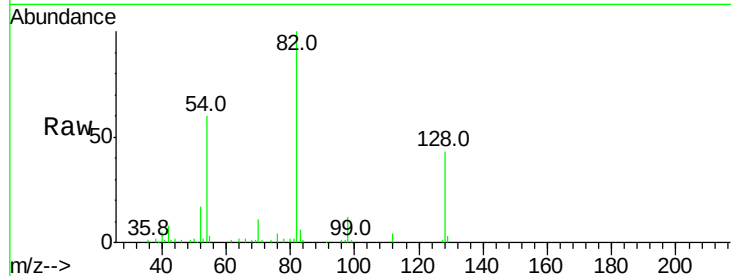
#23
Nitrobenzene-d5
Concen: 5.113 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.02 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampleId :
A2_SB98_SW_6

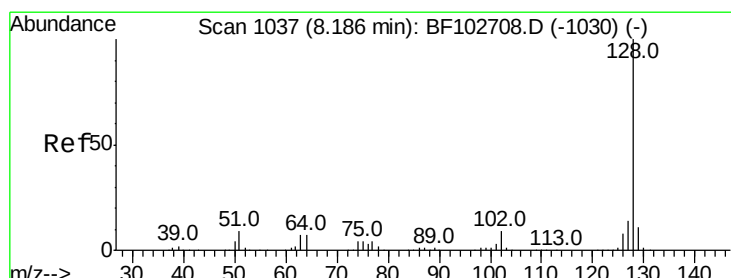
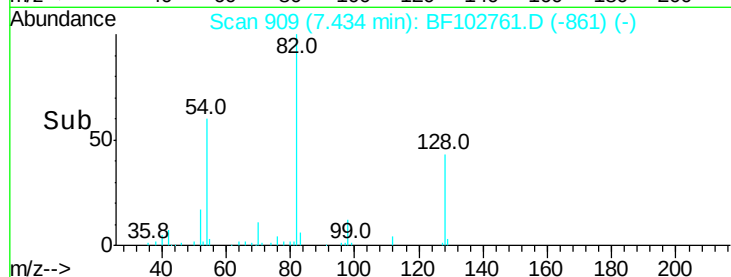
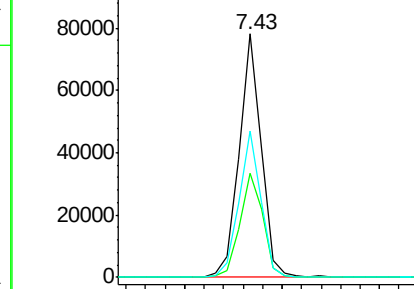
Tot Ion	Ratio	Lower	Upper
82	100		
128	43.0	36.1	54.1
54	60.1	41.4	62.2

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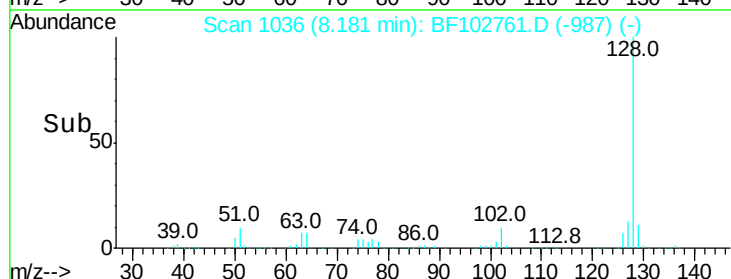
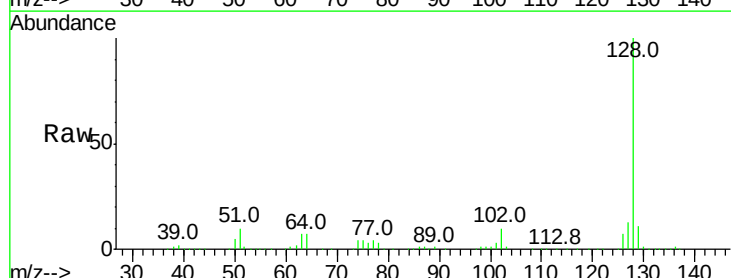
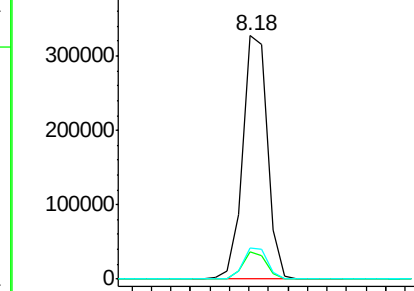
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

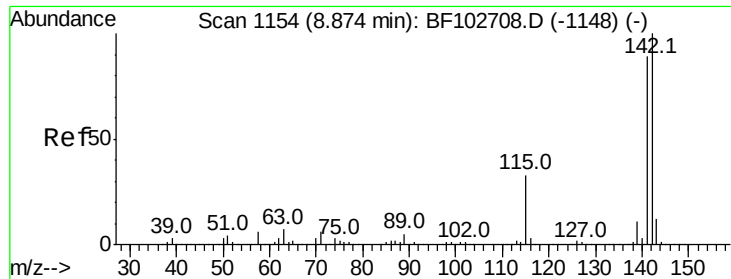


#31
Naphthalene
Concen: 7.128 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	12.6	10.9	16.3

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





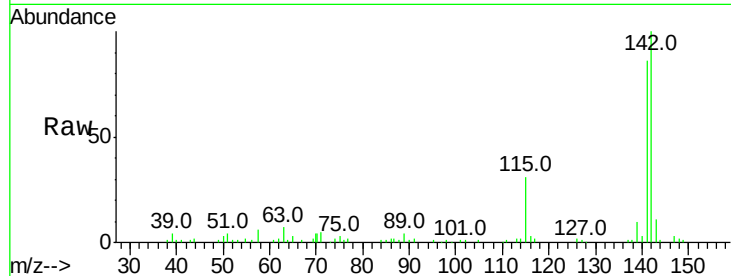
#37
2-Methylnaphthalene
Concen: 2.073 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampleId :
A2_SB98_SW_6

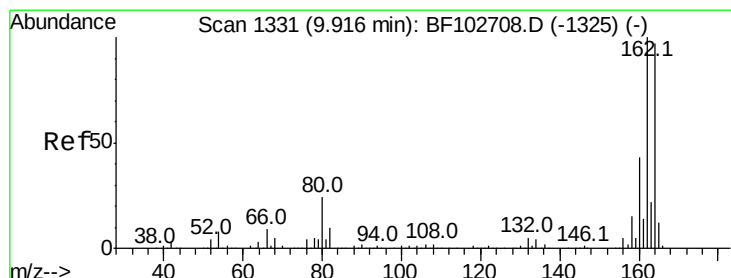
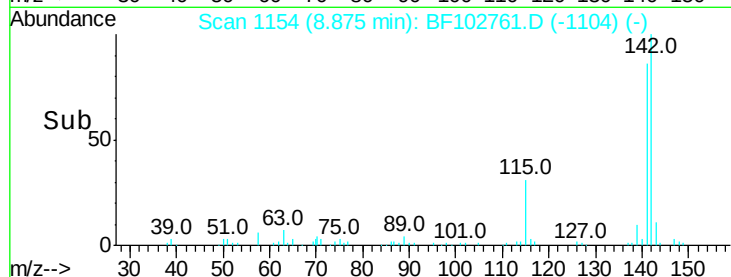
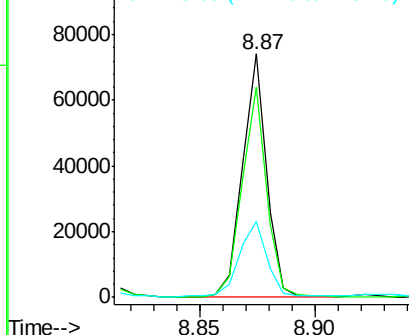
Tot Ion	Ratio	Lower	Upper
142	100		
141	86.4	70.8	106.2
115	31.2	26.1	39.1

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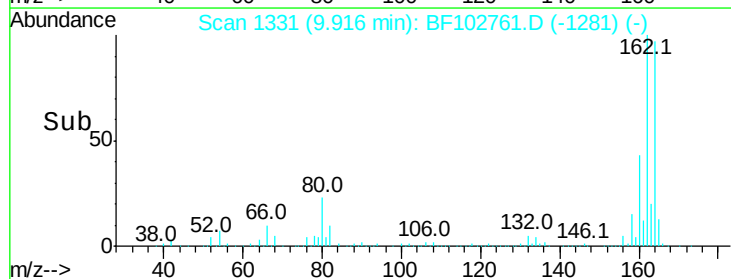
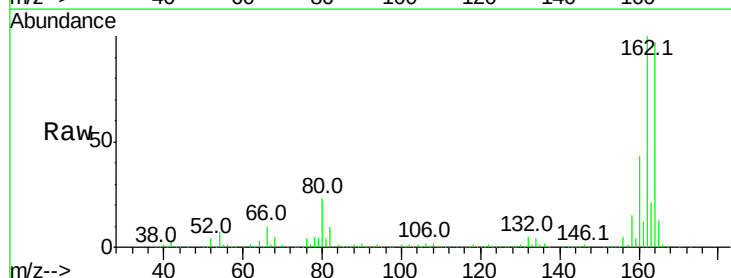
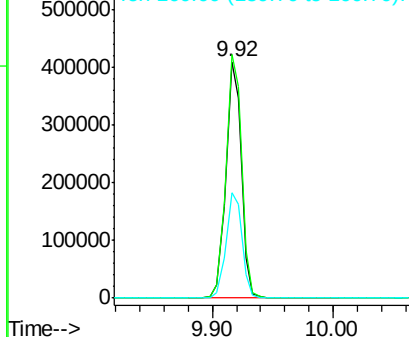
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

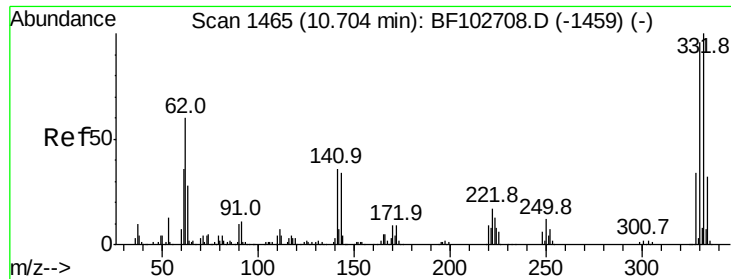


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	86.1	129.1
160	44.5	38.3	57.5

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





#41

2,4,6-Tribromophenol

Concen: 5.730 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Instrument :

BNA_F

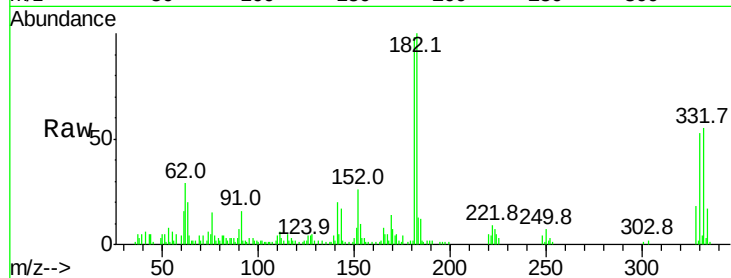
ClientSampleId :

A2_SB98_SW_6

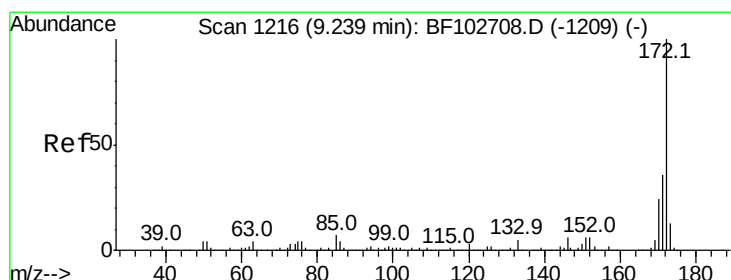
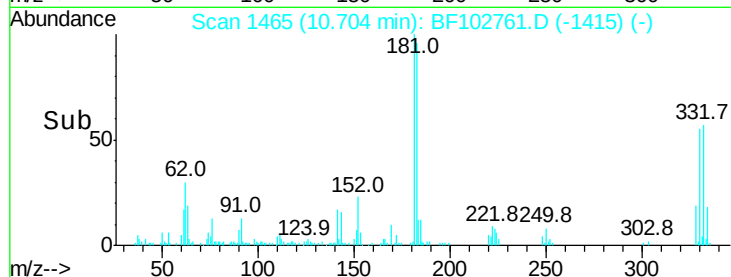
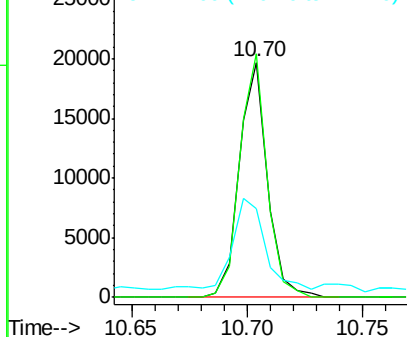
Tot Ion:	330	Resp:	16719
Ion Ratio	Lower	Upper	
330	100		
332	99.6	77.0	115.6
141	44.9	29.9	44.9#

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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: 5.904 ng

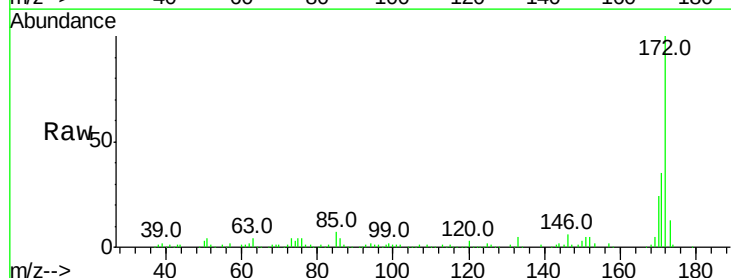
RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

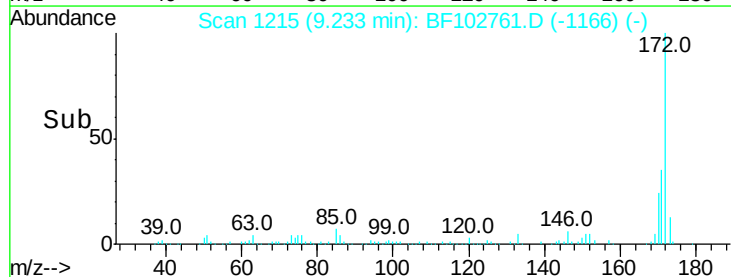
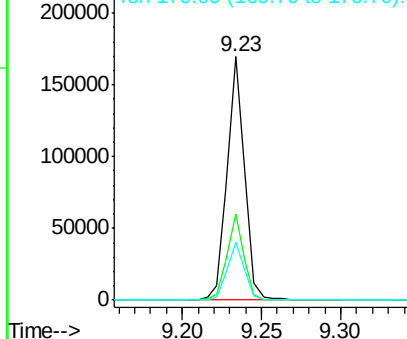
Lab File: BF102761.D

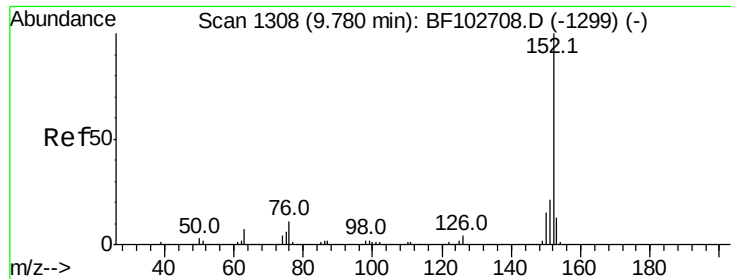
Acq: 6 Feb 2018 2:37

Tgt Ion:	172	Resp:	128984
Ion Ratio	Lower	Upper	
172	100		
171	35.2	29.7	44.5
170	23.9	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





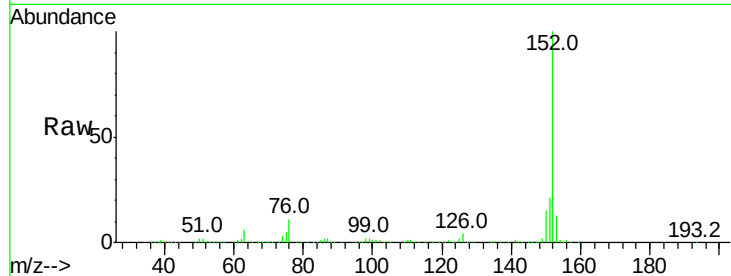
#48
Acenaphthylene
Concen: 12.911 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampleId :
A2_SB98_SW_6

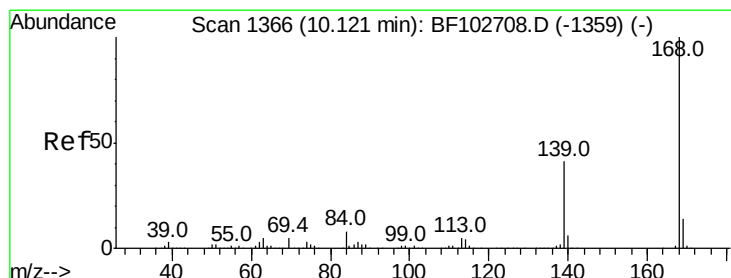
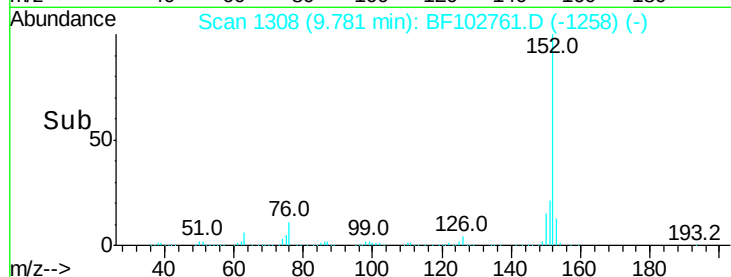
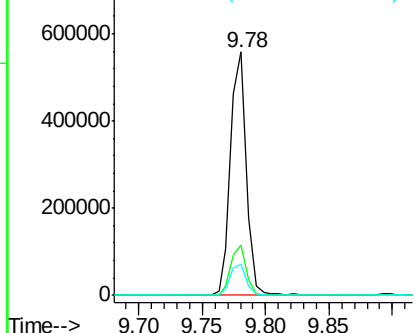
Tot Ion	Ratio	Resp	Lower	Upper
152	100	482051		
151	20.6		16.3	24.5
153	12.9		10.7	16.1

Manual Integrations
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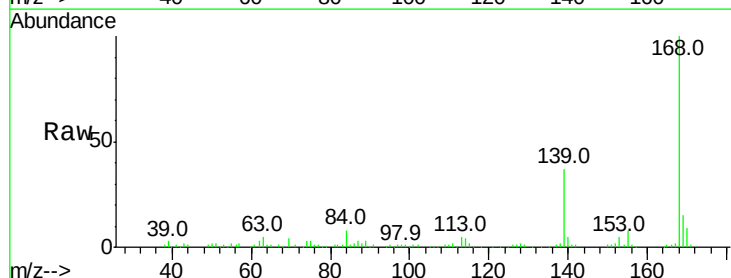


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

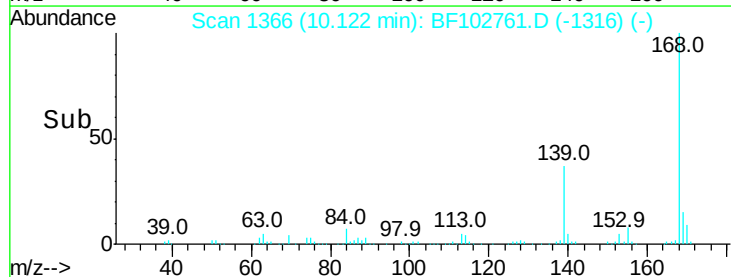
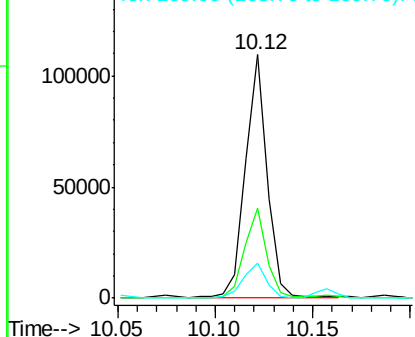


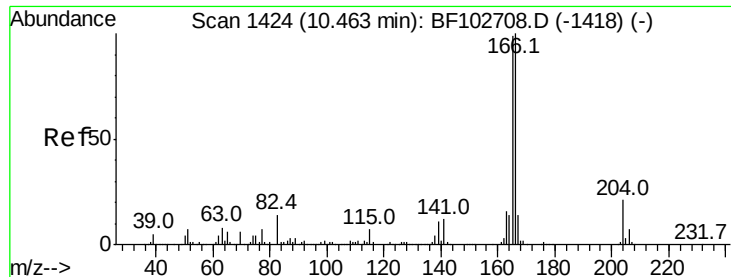
#54
Dibenzofuran
Concen: 2.652 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	83446		
139	36.8		30.1	45.1
169	14.6		10.9	16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





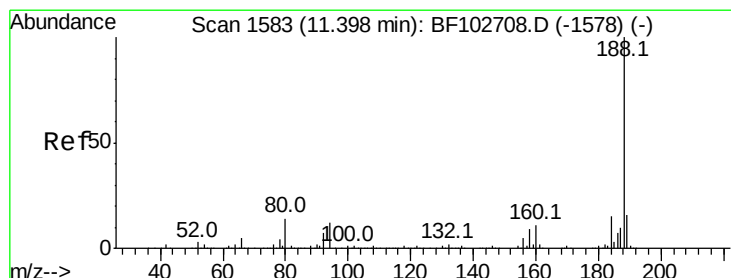
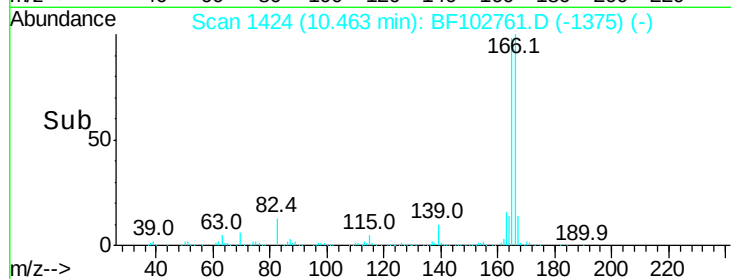
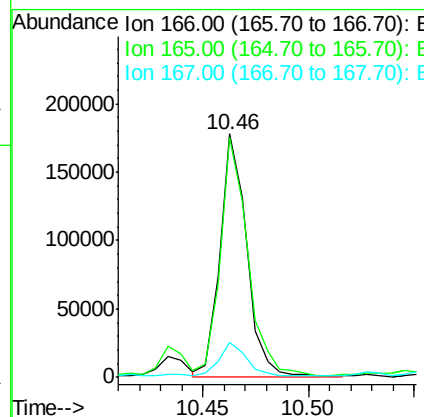
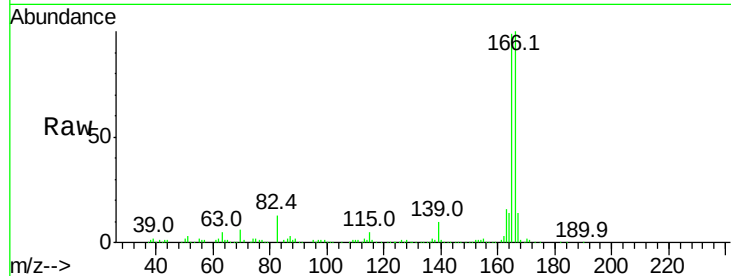
#57
Fluorene
 Concen: 6.820 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF102761.D
 Acq: 6 Feb 2018 2:37

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB98_SW_6

Tot Ion	Ratio	Resp	Lower	Upper
166	100	156154		
165	98.5	79.8	119.8	
167	14.3	10.6	16.0	

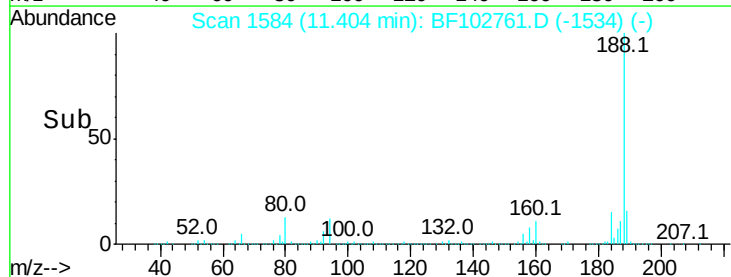
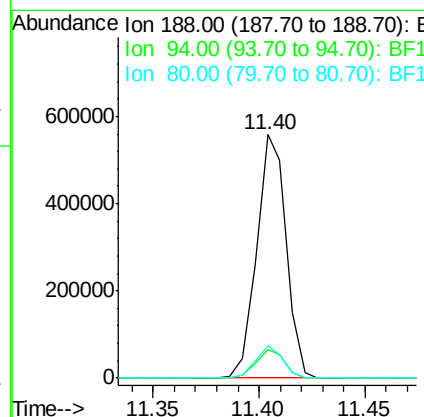
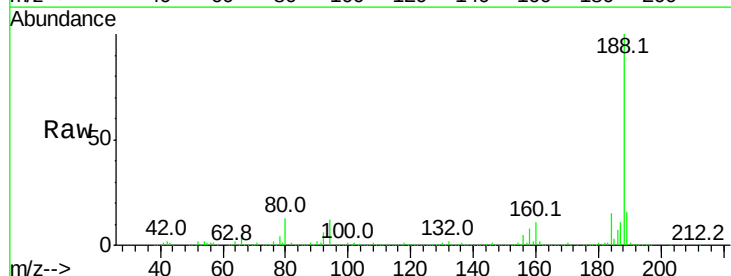
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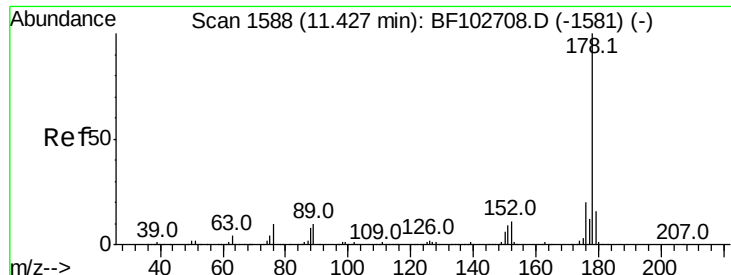
Sohil
 2/6/2018 2:26:09 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF102761.D
 Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	542349		
94	11.9	8.5	12.7	
80	13.1	9.2	13.8	





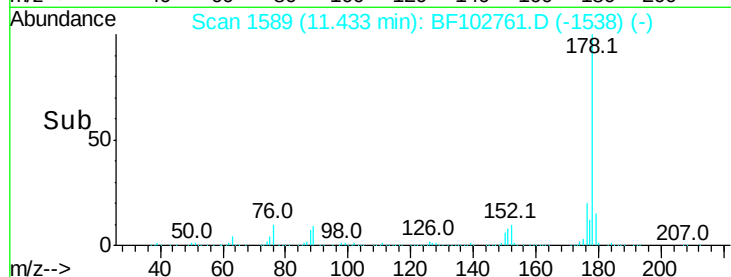
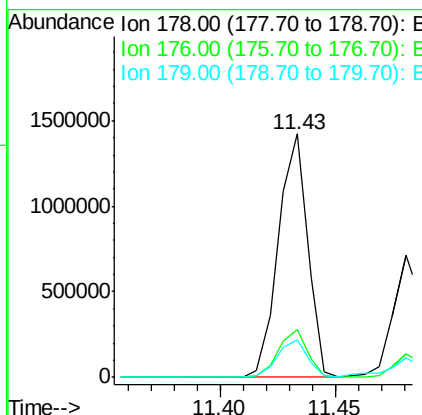
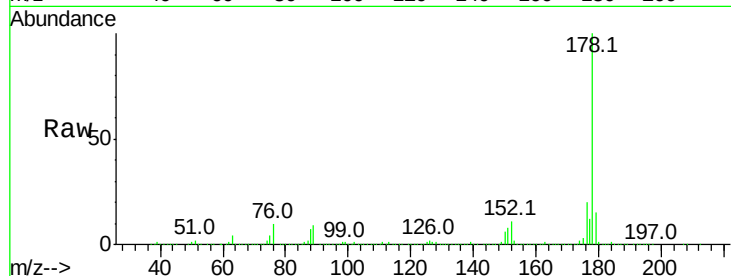
#70
Phenanthrene
Concen: 41.226 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampleId :
A2_SB98_SW_6

Tot Ion:178 Resp: 1245250
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.5 13.0 19.6

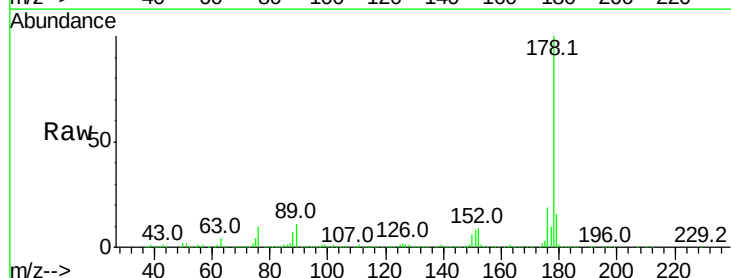
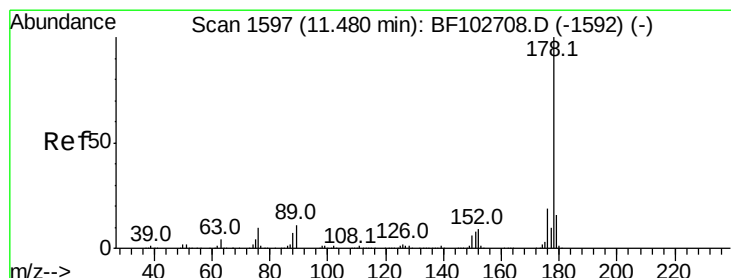
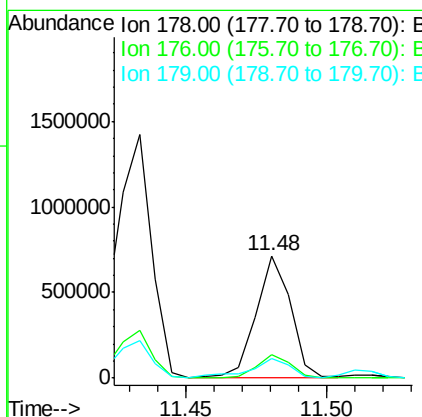
Manual Integrations
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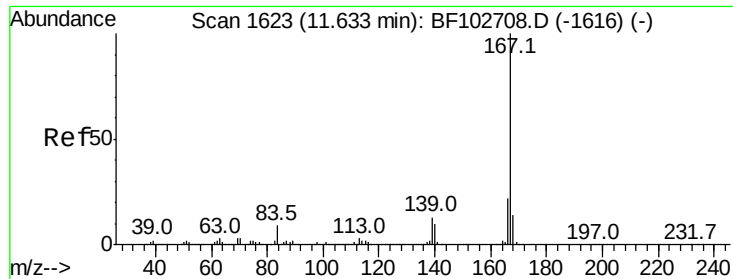
Sohil
2/6/2018 2:26:09 PM



#71
Anthracene
Concen: 19.402 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion:178 Resp: 596073
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.5 12.6 19.0





#72

Carbazole

Concen: 6.065 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Instrument :

BNA_F

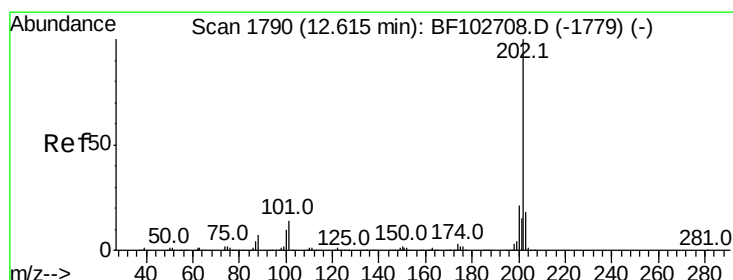
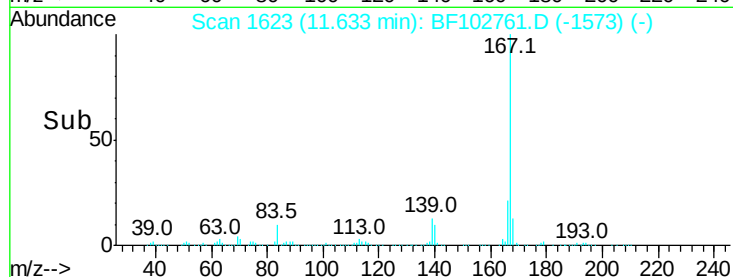
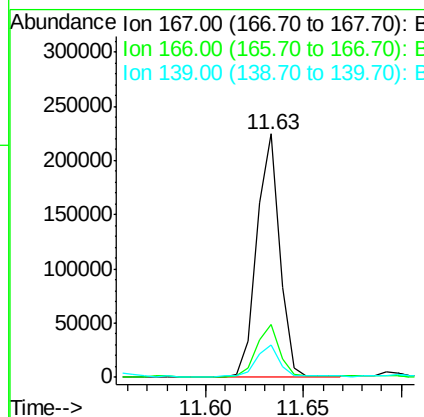
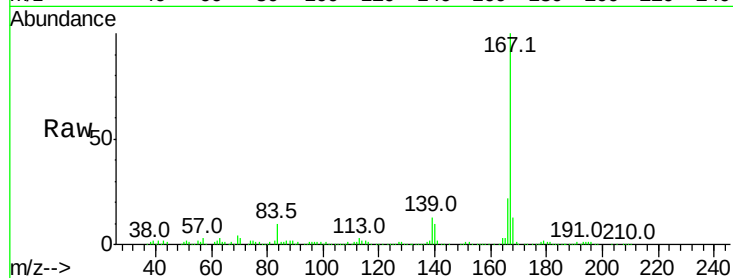
ClientSampleId :

A2_SB98_SW_6

Tot Ion:	167	Resp:	182546
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.6	26.4
139	13.2	10.9	16.3

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#74

Fluoranthene

Concen: 56.107 ng

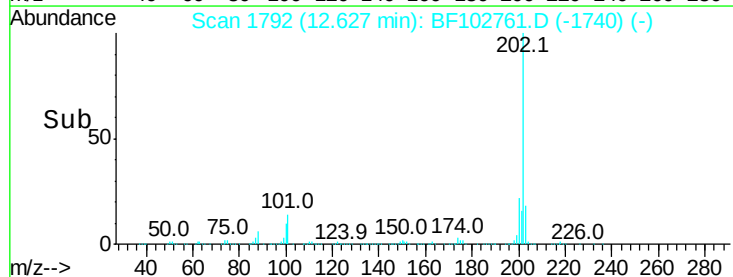
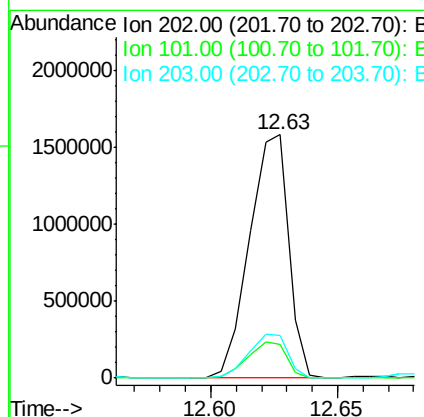
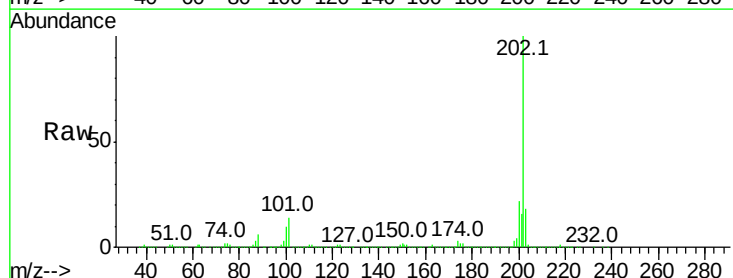
RT: 12.63 min Scan# 1792

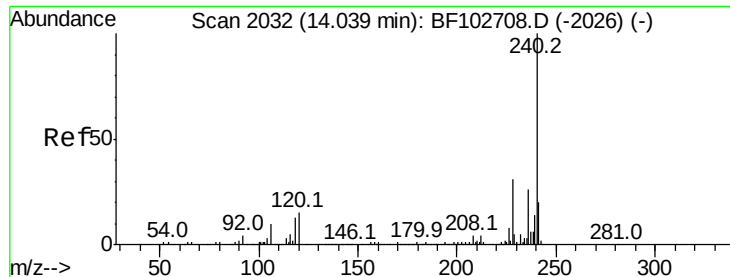
Delta R.T. 0.01 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Tgt Ion:	202	Resp:	1705088
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Instrument :

BNA_F

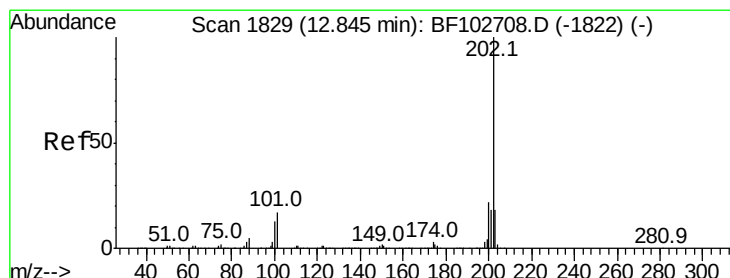
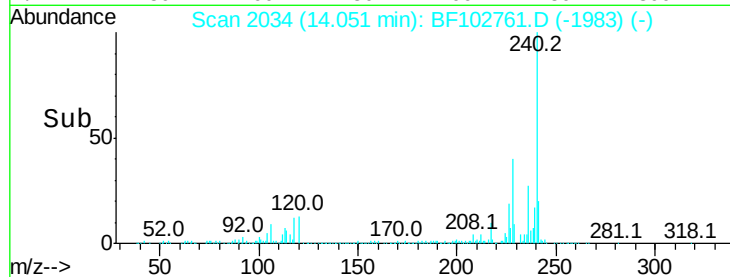
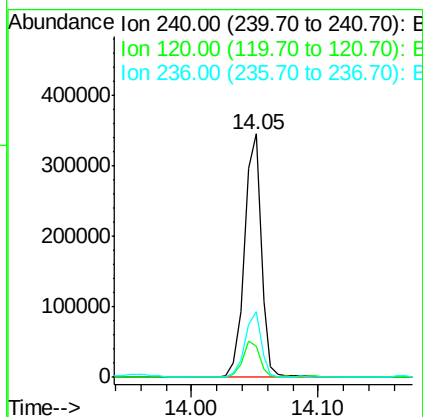
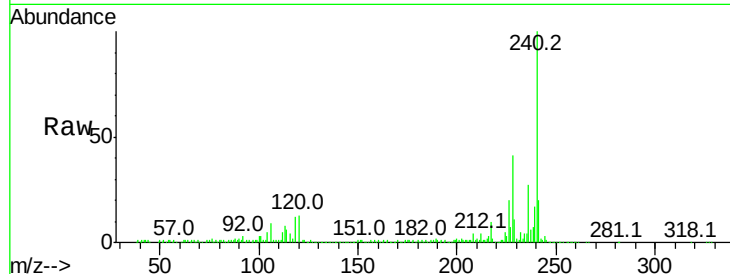
ClientSampleId :

A2_SB98_SW_6

Tot Ion:	240	Resp:	313572
Ion Ratio	Lower	Upper	
240	100		
120	12.9	9.5	14.3
236	27.2	20.7	31.1

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#77

Pyrene

Concen: 63.781 ng

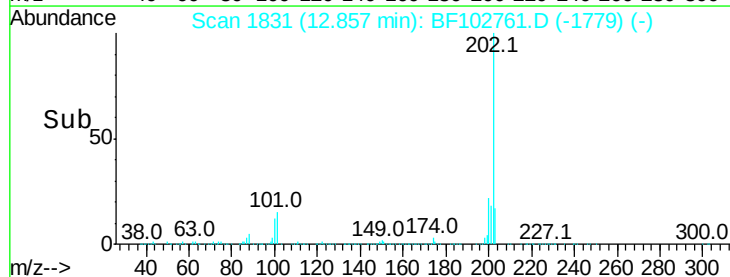
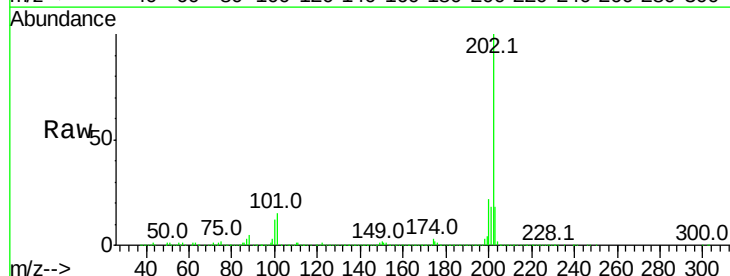
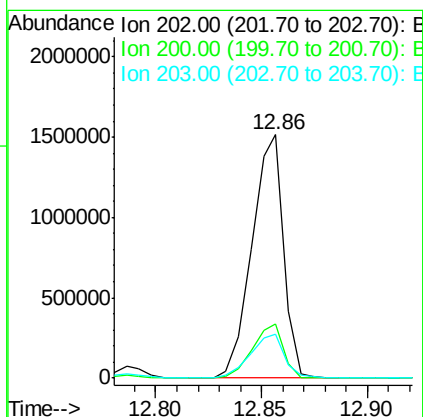
RT: 12.86 min Scan# 1831

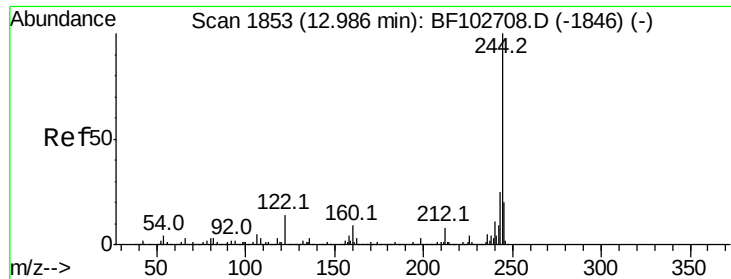
Delta R.T. 0.01 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Tgt Ion:	202	Resp:	1568297
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.4	26.2
203	18.0	14.3	21.5





#78

Terphenyl-d14

Concen: 6.378 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Instrument :

BNA_F

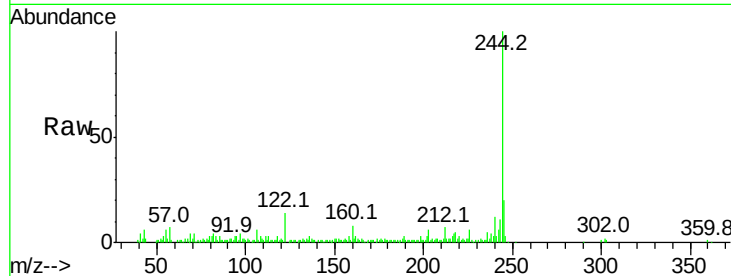
ClientSampleId :

A2_SB98_SW_6

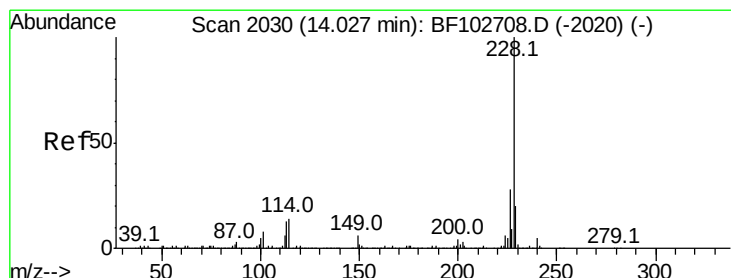
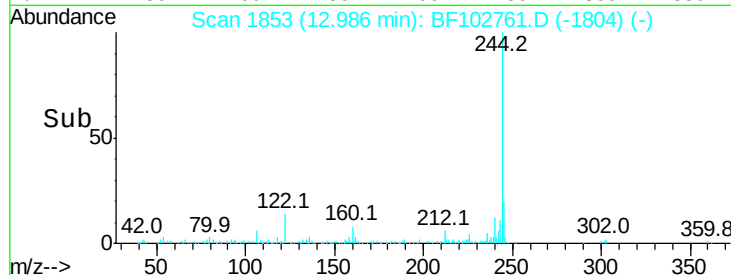
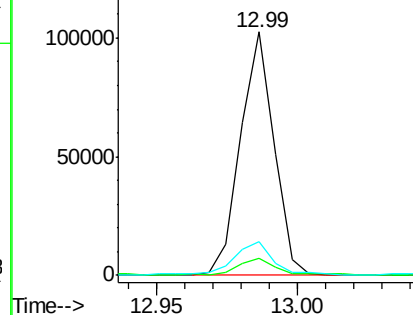
Tot Ion:	244	Resp:	84461
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.4	8.0
122	14.0	11.0	16.4

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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: 47.020 ng m

RT: 14.04 min Scan# 2032

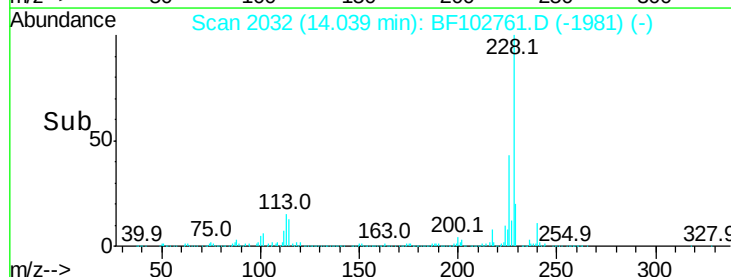
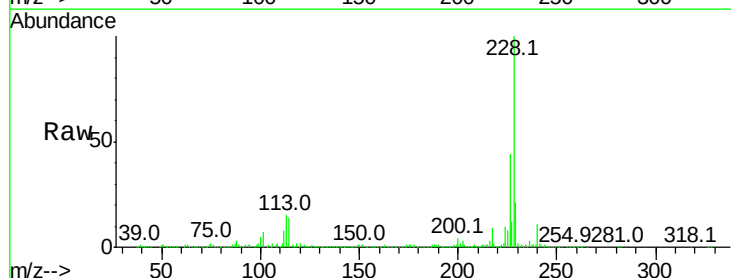
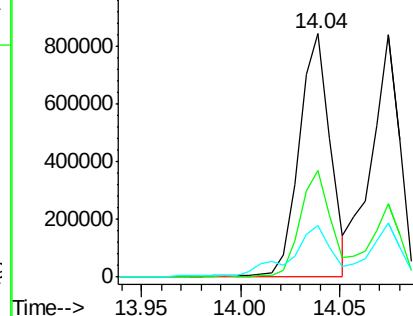
Delta R.T. 0.00 min

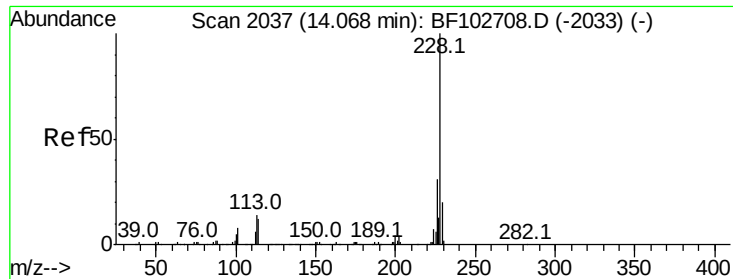
Lab File: BF102761.D

Acq: 6 Feb 2018 2:37

Tgt Ion:	228	Resp:	927259
Ion Ratio	Lower	Upper	
228	100		
226	43.8	22.6	33.8#
229	21.2	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





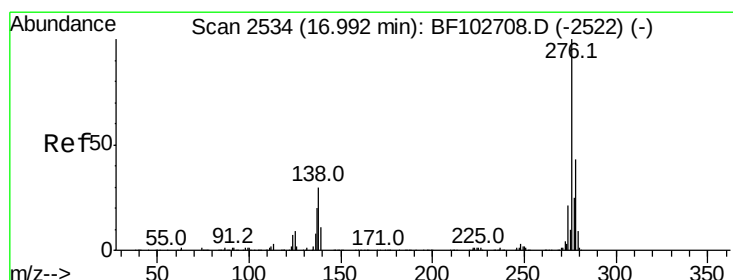
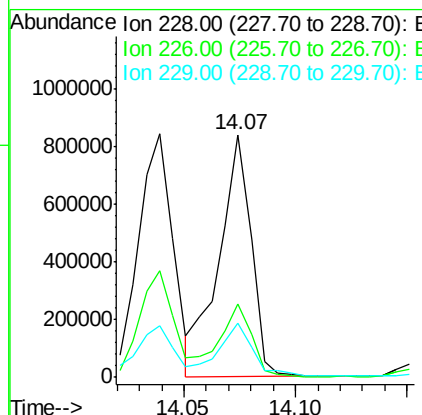
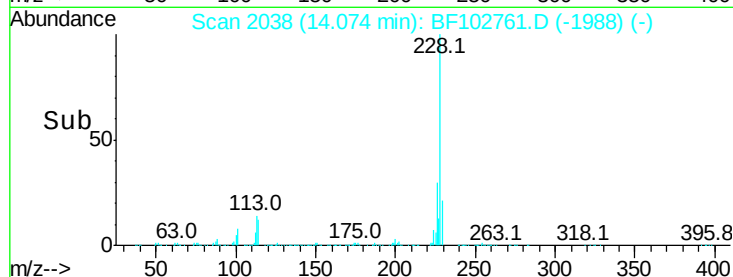
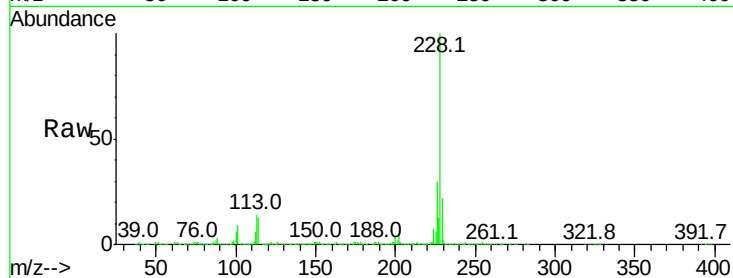
#82
 Chrysene
 Concen: 42.229 ng m
 RT: 14.07 min Scan# 2038
 Delta R.T. -0.01 min
 Lab File: BF102761.D
 Acq: 6 Feb 2018 2:37

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB98_SW_6

Tot Ion:	228	Resp:	839489
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	22.5	16.2	24.4

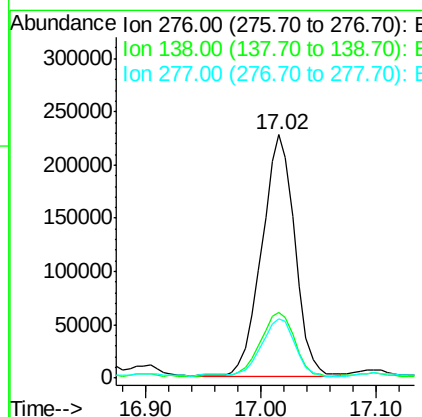
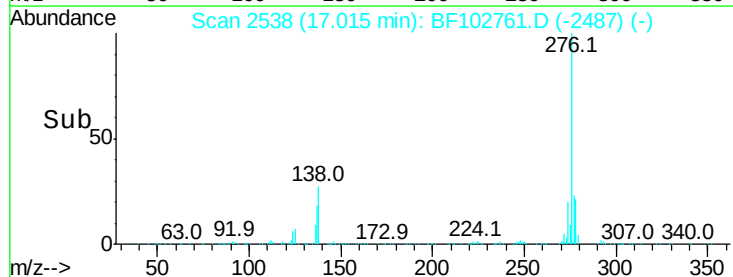
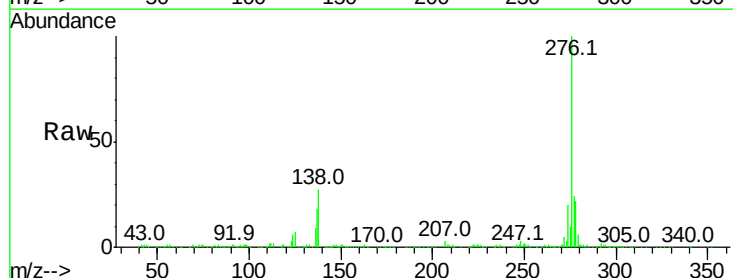
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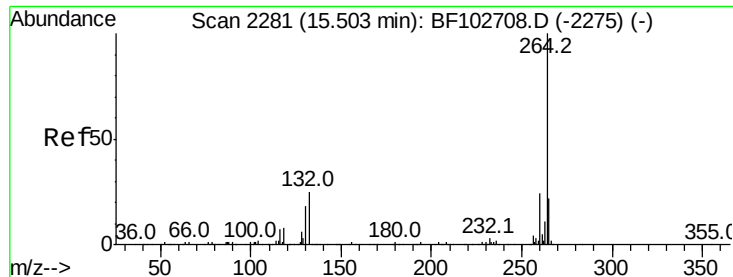
Sohil
 2/6/2018 2:26:09 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 27.614 ng
 RT: 17.02 min Scan# 2538
 Delta R.T. 0.00 min
 Lab File: BF102761.D
 Acq: 6 Feb 2018 2:37

Tgt Ion:	276	Resp:	455287
Ion Ratio	Lower	Upper	
276	100		
138	27.0	25.0	37.6
277	23.9	20.1	30.1





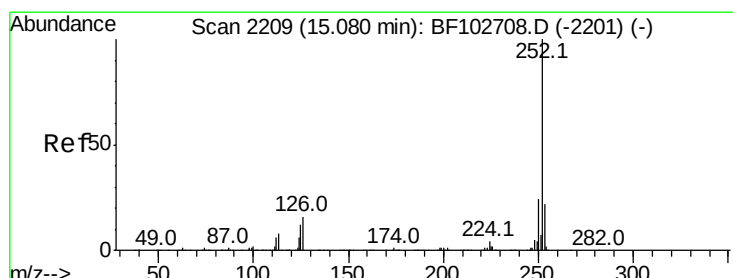
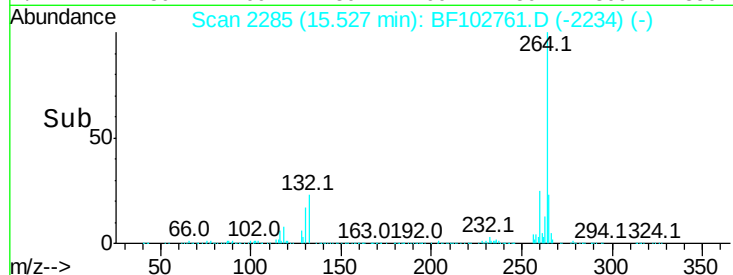
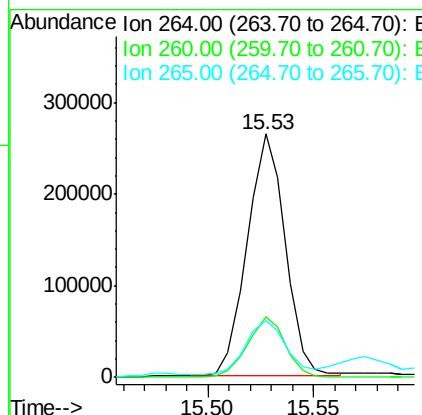
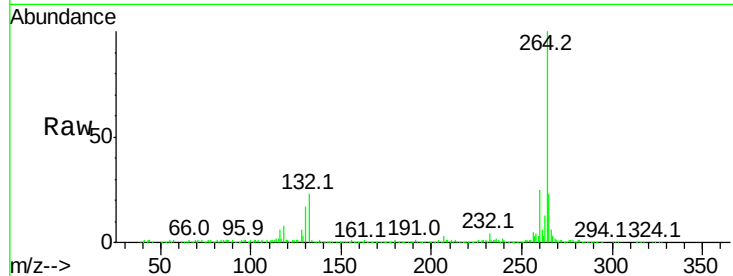
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. 0.00 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampleId :
A2_SB98_SW_6

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	23.4	17.5	26.3

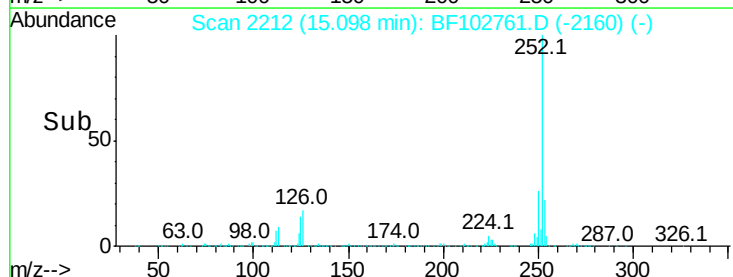
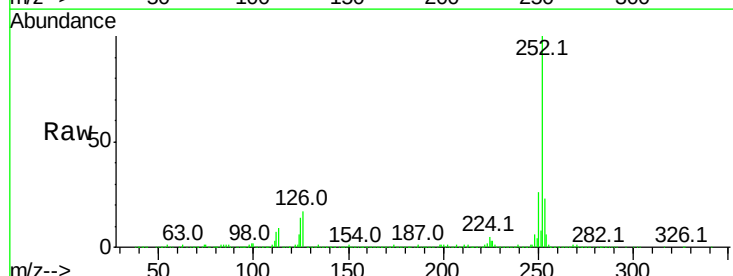
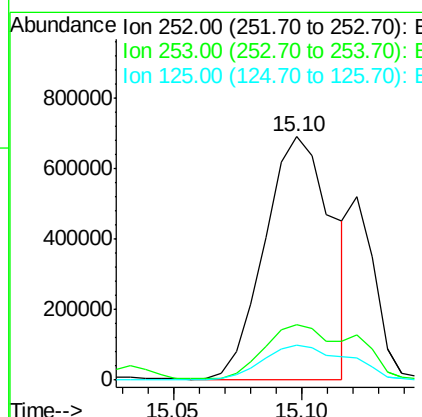
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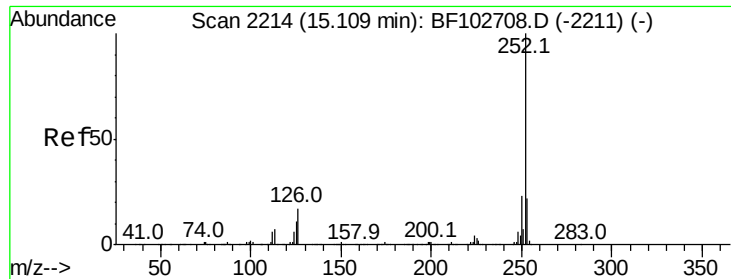
Sohil
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#87
Benzo(b)fluoranthene
Concen: 58.602 ng m
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	14.3	9.0	13.6





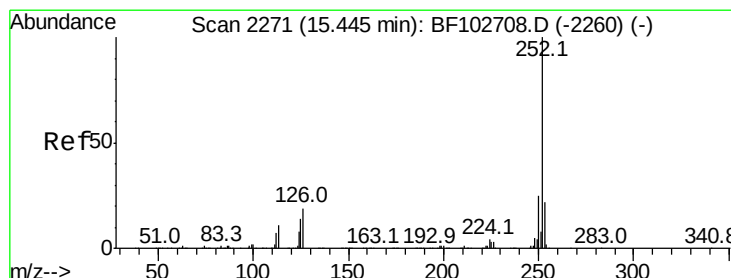
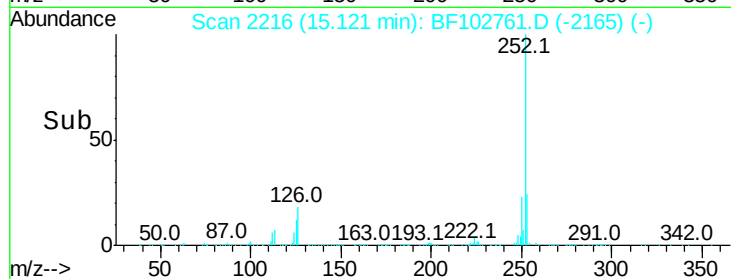
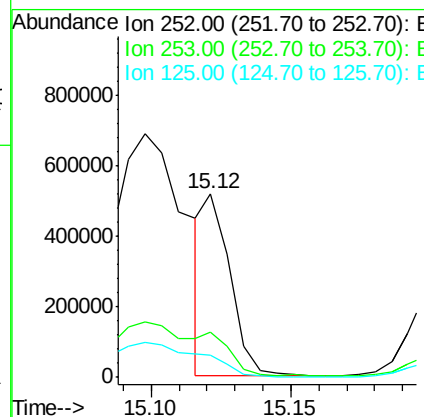
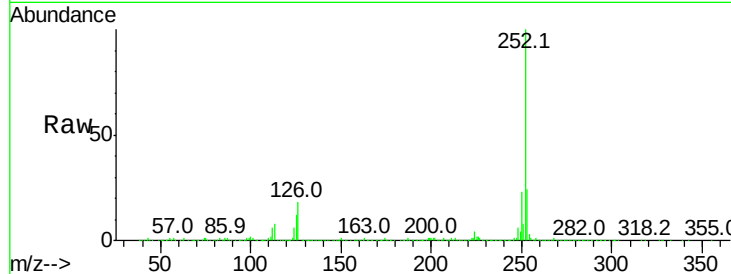
#88
Benzo(k)fluoranthene
Concen: 16.941 ng m
RT: 15.12 min Scan# 2216
Delta R.T. 0.00 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampleId :
A2_SB98_SW_6

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	12.0	10.2	15.2

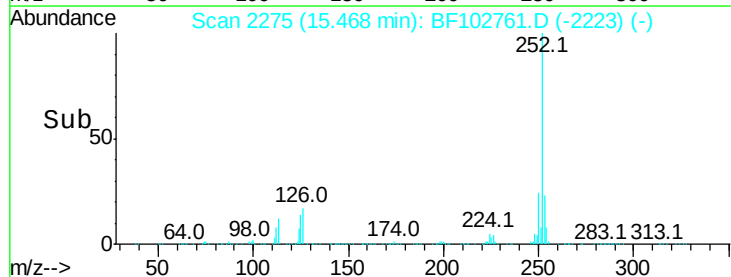
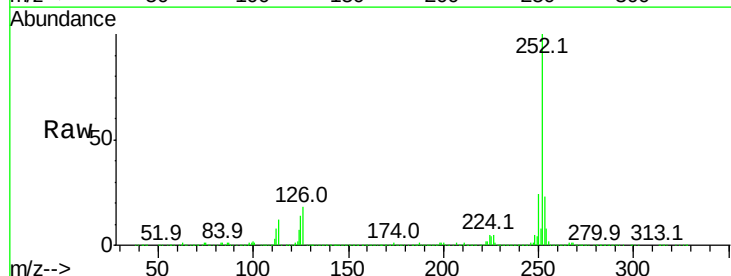
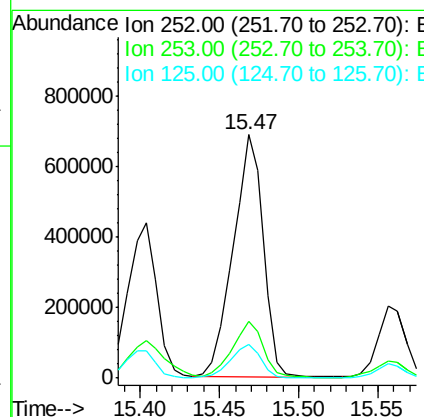
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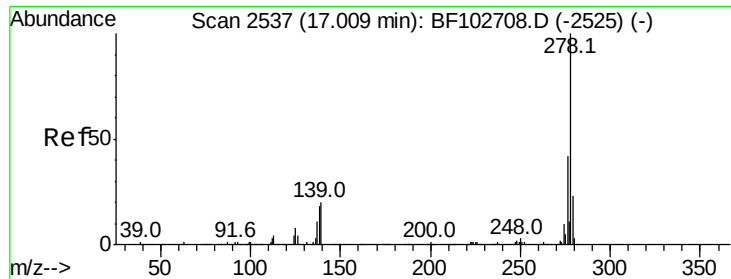
Sohil
2/6/2018 2:26:09 PM



#89
Benzo(a)pyrene
Concen: 46.666 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	13.9	9.8	14.6





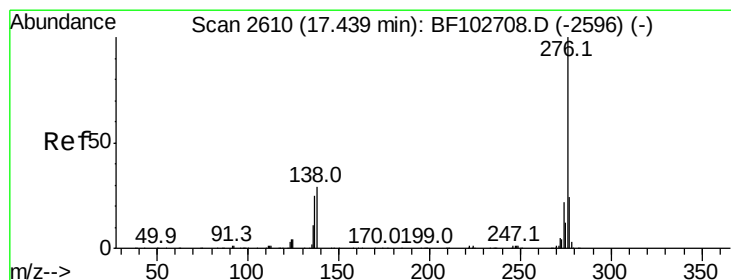
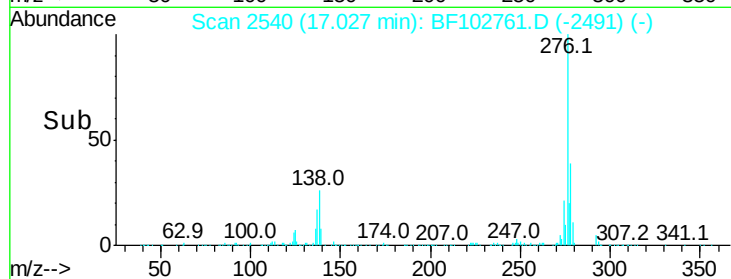
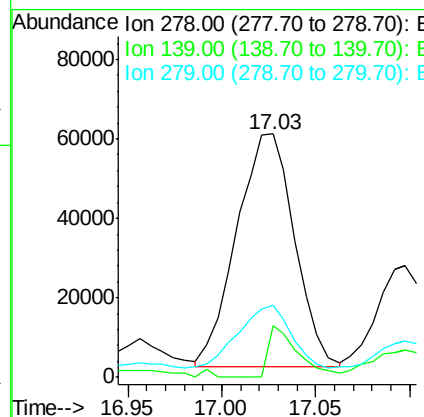
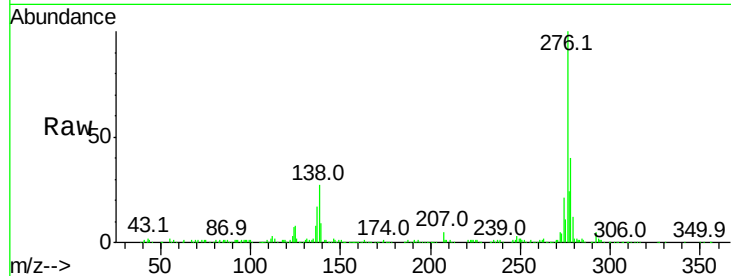
#90
Dibenzo(a,h)anthracene
Concen: 7.972 ng/mL
RT: 17.03 min Scan# 2540
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Instrument :
BNA_F
ClientSampleId :
A2_SB98_SW_6

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.3	15.9	23.9
279	29.6	19.0	28.4

Manual Integrations
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2/6/2018 2:26:09 PM



#91
Benzo(g,h,i)perylene
Concen: 26.060 ng/mL
RT: 17.47 min Scan# 2615
Delta R.T. -0.01 min
Lab File: BF102761.D
Acq: 6 Feb 2018 2:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	27.4	21.8	32.8

