

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
 Data File : BF103961.D
 Acq On : 27 Mar 2018 8:08
 Operator : JU/SJ
 Sample : J2049-01DL 20X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB17 W 8DL

Manual Integrations
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 3/27/2018 2:16:20 PM

Quant Time: Mar 27 09:06:19 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	137030	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	512240	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	250142	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	375703	20.00	ng	0.00
75) Chrysene-d12	14.17	240	229747	20.00	ng	0.00
86) Perylene-d12	15.72	264	245143	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	41894	4.65	ng	0.00
7) Phenol-d6	6.59	99	53842	4.88	ng	-0.01
23) Nitrobenzene-d5	7.53	82	29474	4.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.81	330	10303	4.79	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	56783	3.62	ng	0.00
78) Terphenyl-d14	13.10	244	43495	4.39	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.30	128	4923908	190.291	ng	98
37) 2-Methylnaphthalene	8.99	142	2036147	124.085	ng	96
45) 1,1'-Biphenyl	9.43	154	563033	26.993	ng	99
48) Acenaphthylene	9.88	152	467612	18.202	ng	# 88
51) Acenaphthene	10.06	154	1367992	89.681	ng	100
54) Dibenzofuran	10.23	168	340062	15.609	ng	# 97
57) Fluorene	10.57	166	1259622	74.510	ng	# 98
70) Phenanthrene	11.56	178	3679595	179.040	ng	99
71) Anthracene	11.60	178	1653596	79.219	ng	99
72) Carbazole	11.74	167	217952	10.743	ng	97
74) Fluoranthene	12.74	202	2214074	104.570	ng	99
77) Pylene	12.99	202	2804950	166.244	ng	98
80) Benzo(a)anthracene	14.16	228	1065686m	73.279	ng	
82) Chrysene	14.20	228	959491m	69.212	ng	
85) Indeno(1,2,3-cd)pyrene	17.30	276	366434m	30.267	ng	
87) Benzo(b)fluoranthene	15.26	252	966384m	62.398	ng	
88) Benzo(k)fluoranthene	15.29	252	231160m	15.527	ng	
89) Benzo(a)pyrene	15.66	252	901597	64.183	ng	97
90) Dibenzo(a,h)anthracene	17.31	278	103564m	8.514	ng	
91) Benzo(a,h,i)perylene	17.79	276	354808	29.984	ng	96

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

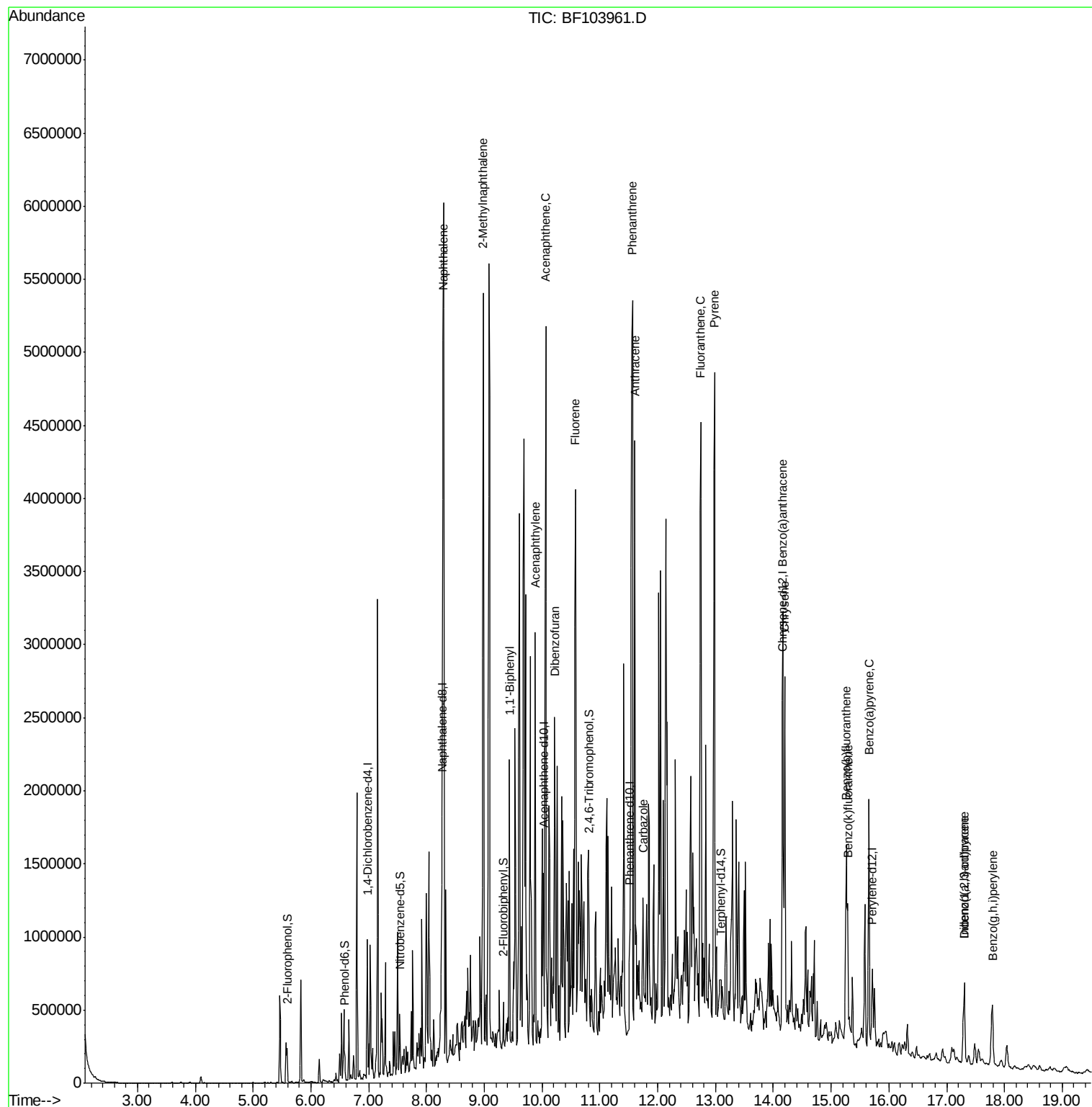
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103961.D
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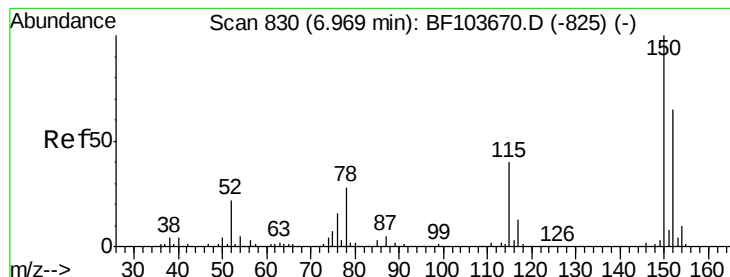
Instrument :
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ClientSampleID :
A2 SB17 W 8DL

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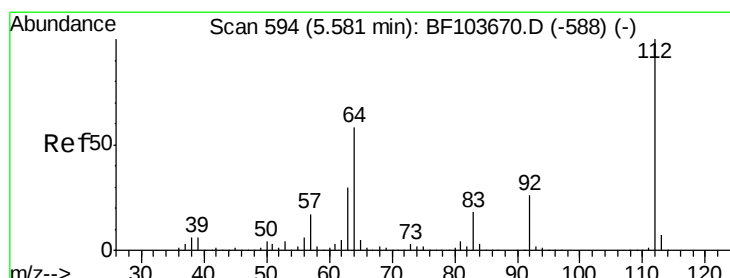
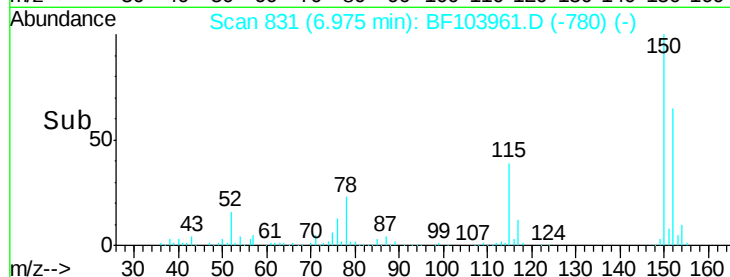
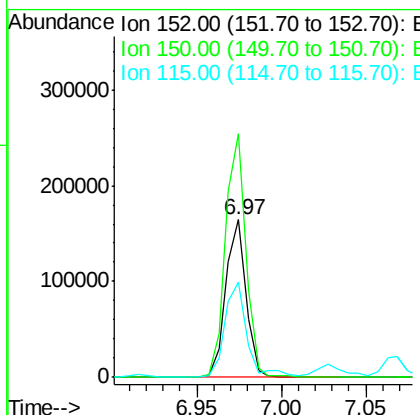
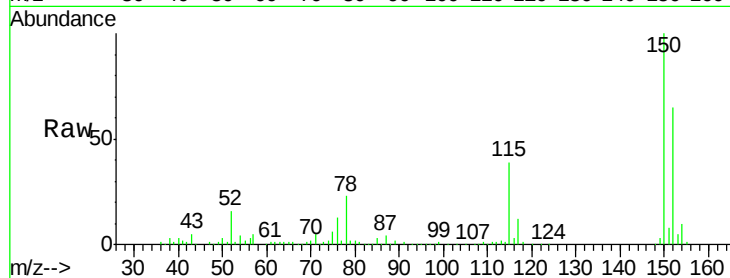
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 831
 Delta R.T. -0.00 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.6	186.8
115	60.6	50.1	75.1

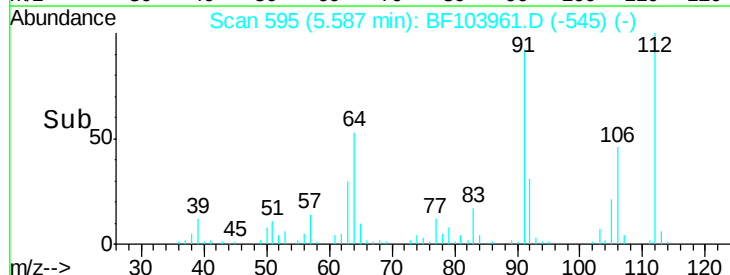
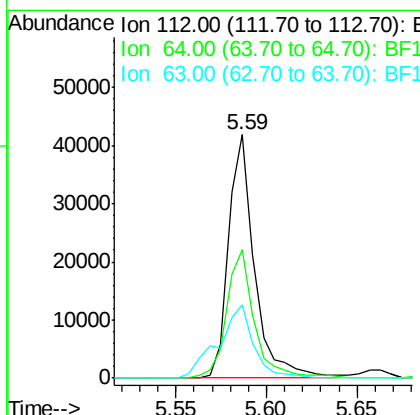
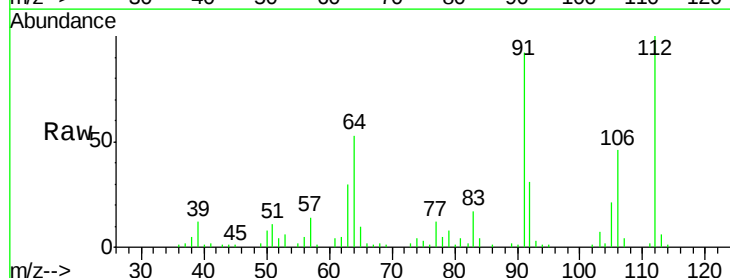
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#5
 2-Fluorophenol
 Concen: 4.650 ng
 RT: 5.59 min Scan# 595
 Delta R.T. -0.01 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.9	47.9	71.9
63	30.3	23.7	35.5





#7

Phenol-d6

Concen: 4.885 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Instrument :

BNA_F

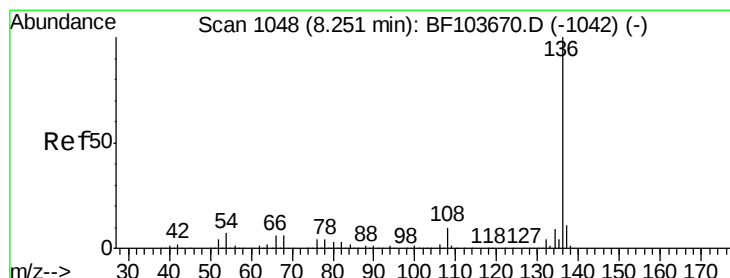
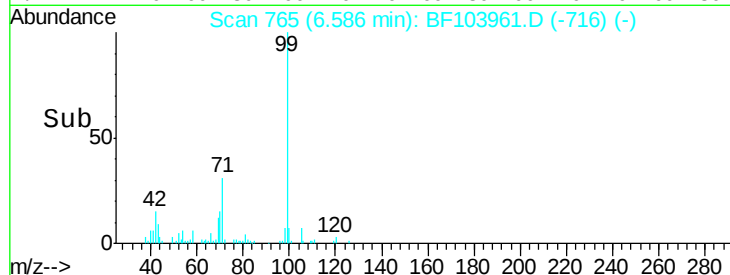
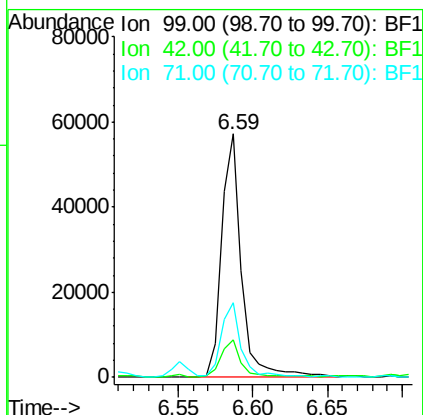
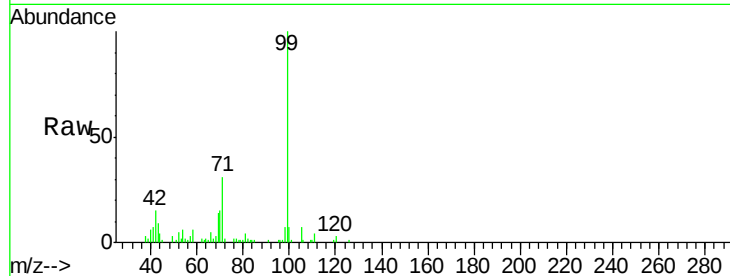
ClientSampleId :

A2_SB17_W_8DL

Tot Ion:	99	Resp:	53842
Ion Ratio	Lower	Upper	
99	100		
42	15.3	14.5	21.7
71	30.5	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

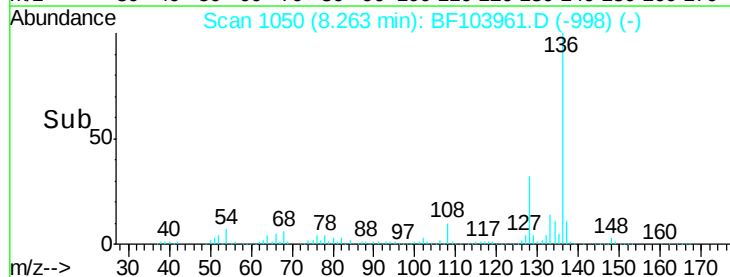
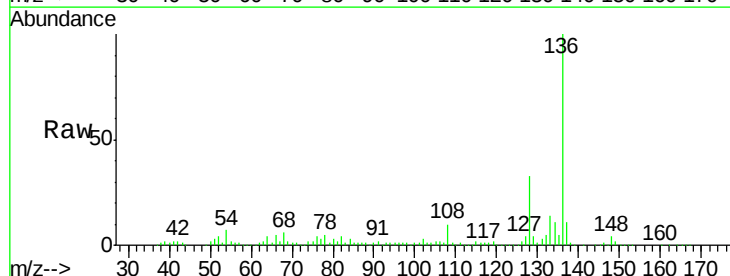
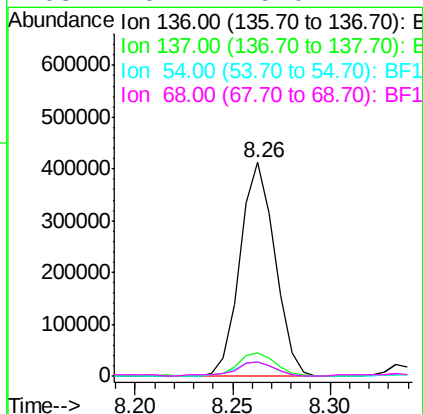
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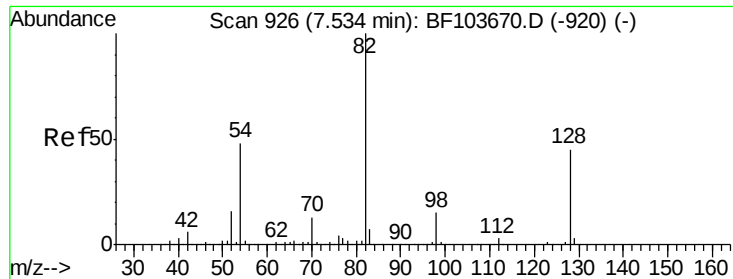
Delta R.T. 0.01 min

Lab File: BF103961.D

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Tgt Ion:	136	Resp:	512240
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	6.8	6.6	9.8
68	6.4	5.0	7.4





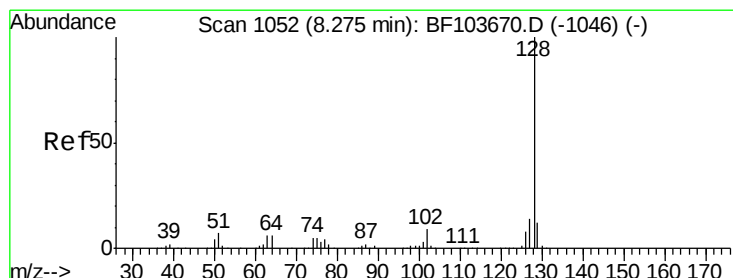
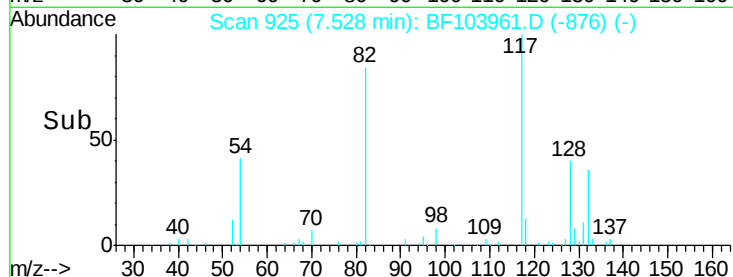
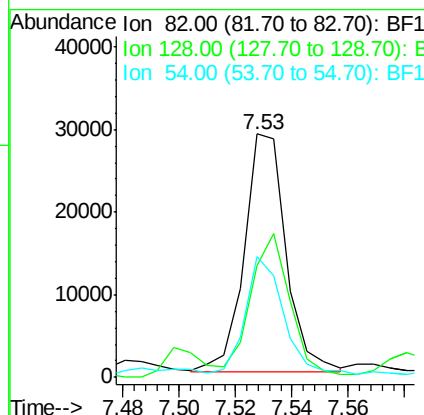
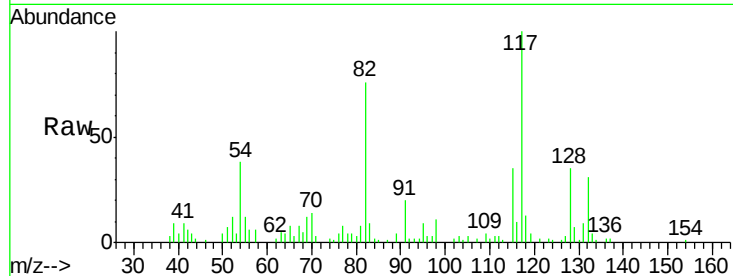
#23
Nitrobenzene-d5
Concen: 4.013 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.8	36.1	54.1
54	49.6	41.4	62.2

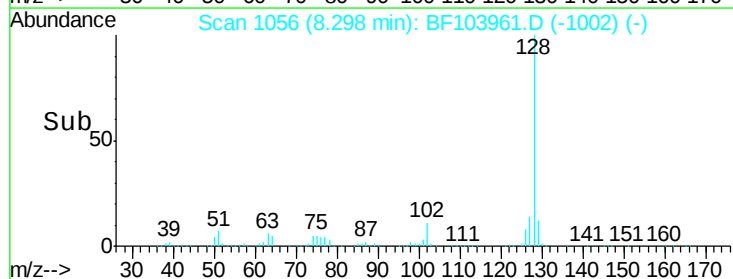
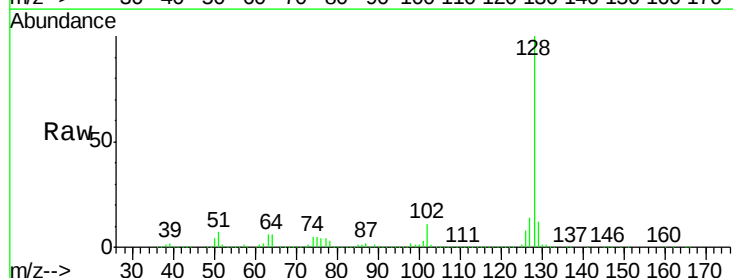
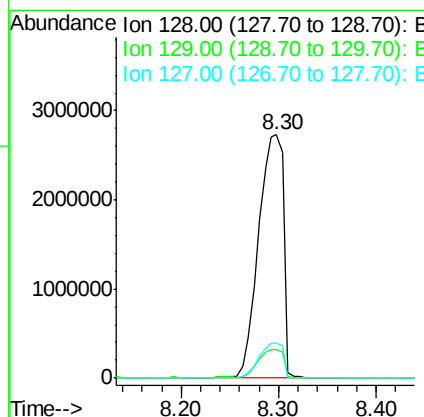
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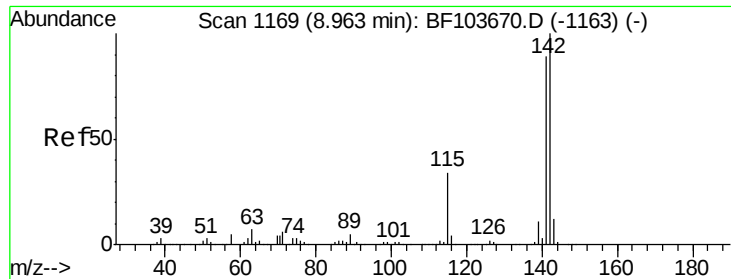
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#31
Naphthalene
Concen: 190.291 ng
RT: 8.30 min Scan# 1056
Delta R.T. 0.02 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.8	13.2
127	14.5	10.9	16.3





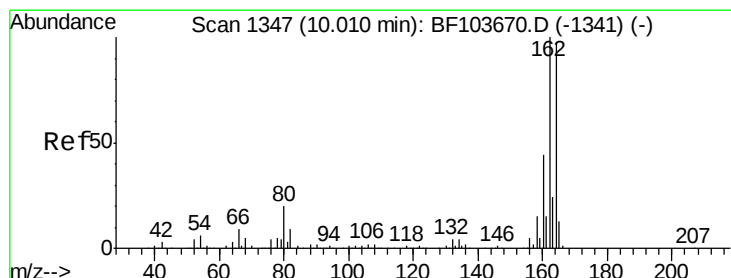
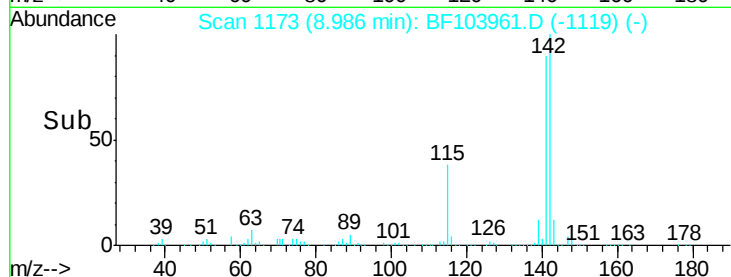
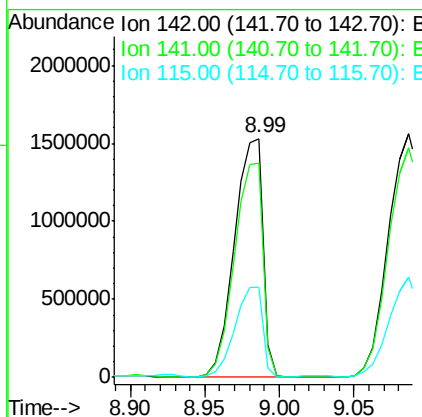
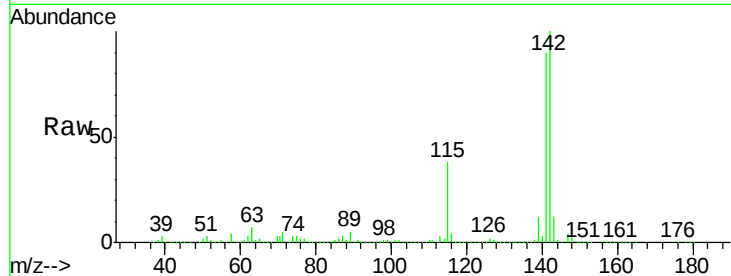
#37
2-Methylnaphthalene
Concen: 124.085 ng
RT: 8.99 min Scan# 1173
Delta R.T. 0.02 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.8	106.2
115	37.9	26.1	39.1

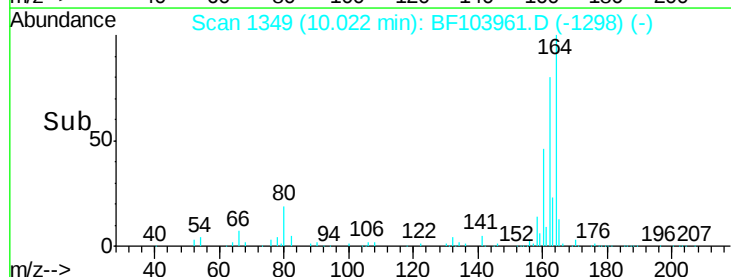
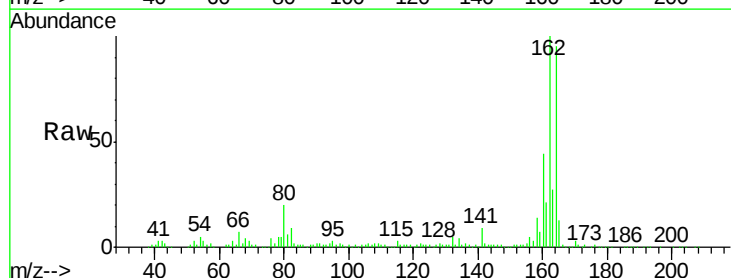
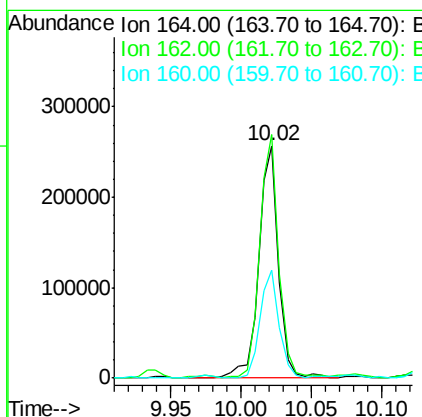
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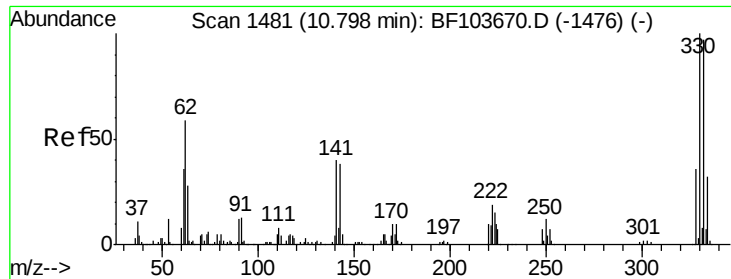
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1349
Delta R.T. -0.00 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.8	86.1	129.1
160	46.3	38.3	57.5





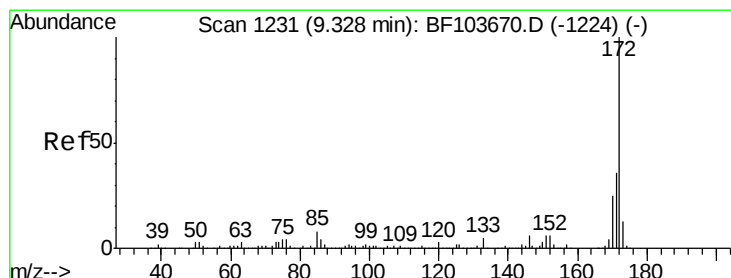
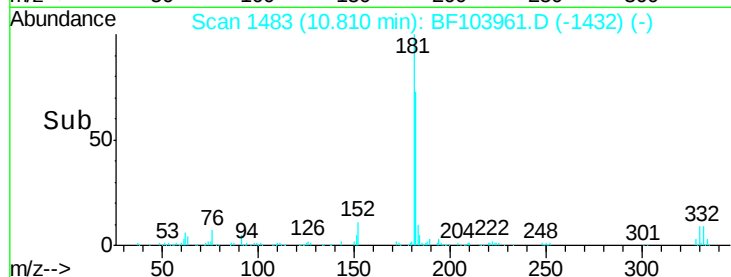
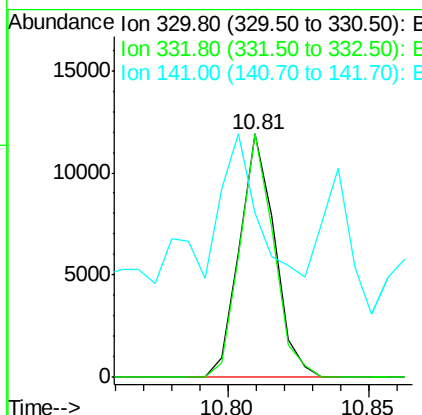
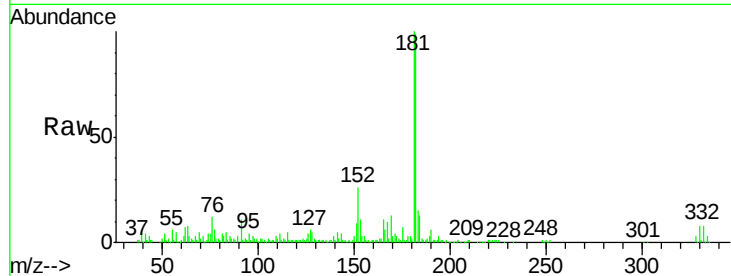
#41
 2,4,6-Tribromophenol
 Concen: 4.790 ng
 RT: 10.81 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.0	115.6
141	132.1	29.9	44.9#

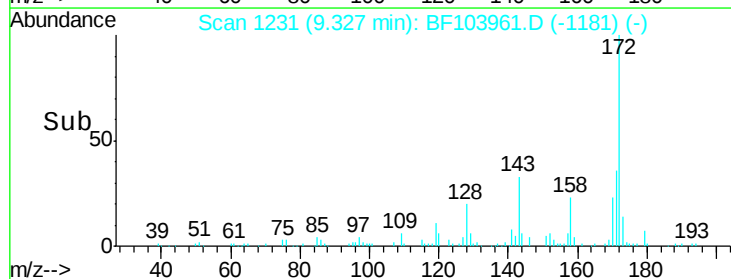
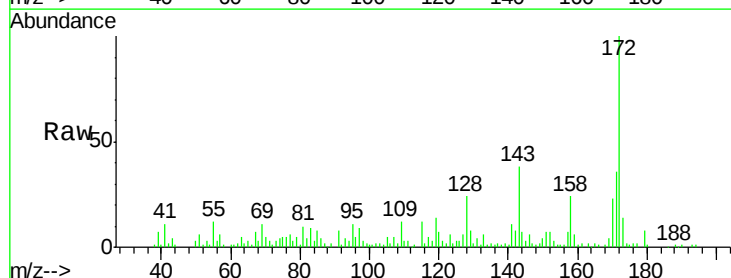
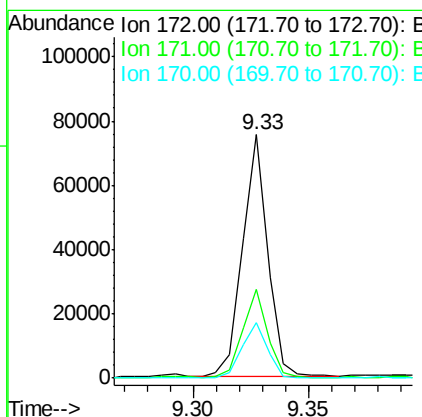
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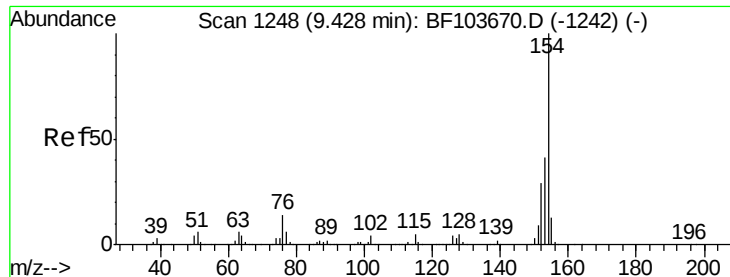
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#44
 2-Fluorobiphenyl
 Concen: 3.621 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.7	44.5
170	22.5	19.6	29.4





#45

1,1'-Biphenyl

Concen: 26.993 ng

RT: 9.43 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Instrument :

BNA_F

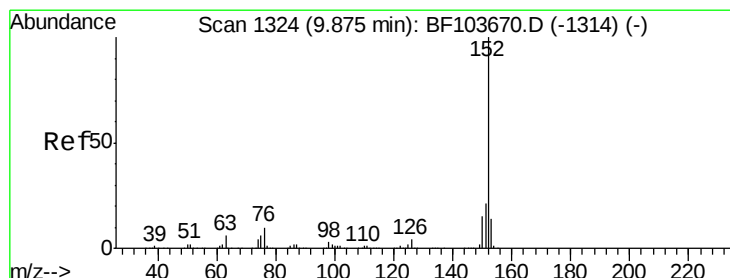
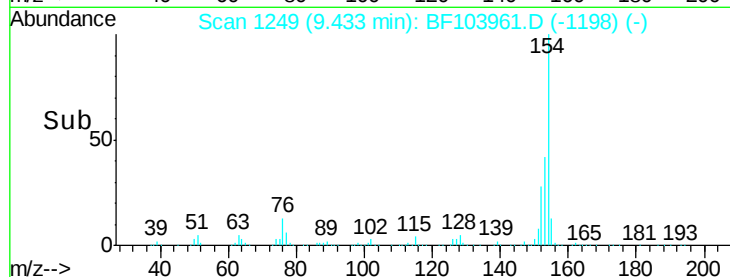
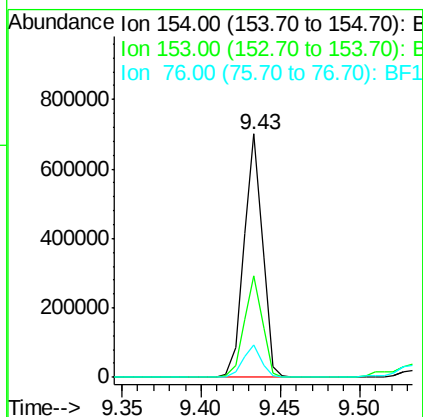
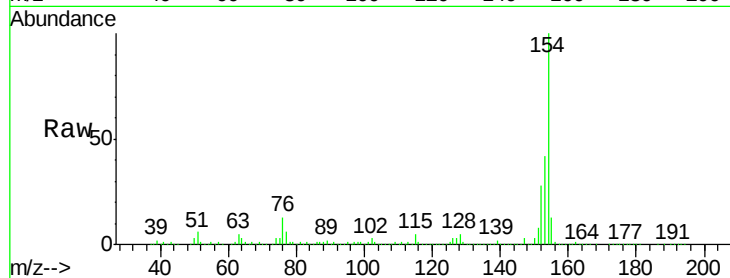
ClientSampleId :

A2_SB17_W_8DL

Tot Ion:	154	Resp:	563033
Ion Ratio	Lower	Upper	
154	100		
153	42.0	21.3	61.3
76	13.4	0.0	34.0

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#48

Acenaphthylene

Concen: 18.202 ng

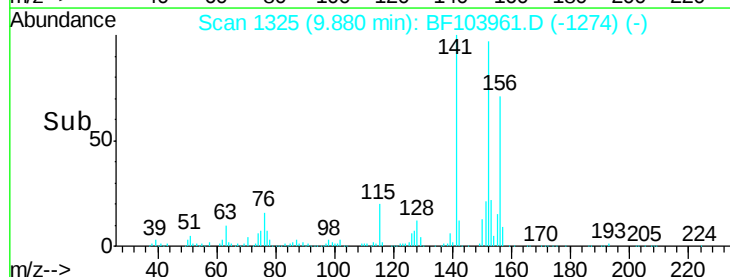
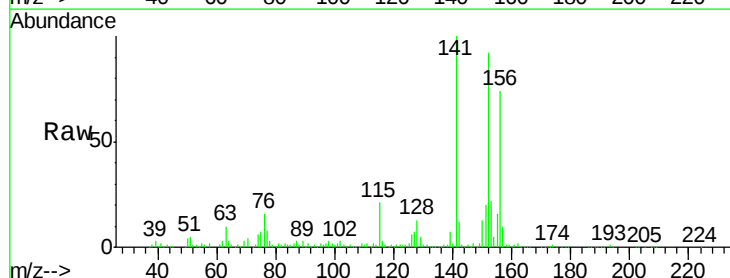
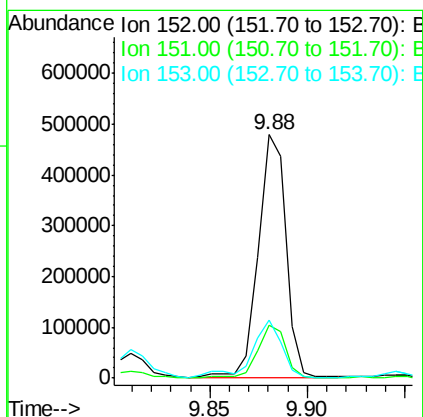
RT: 9.88 min Scan# 1325

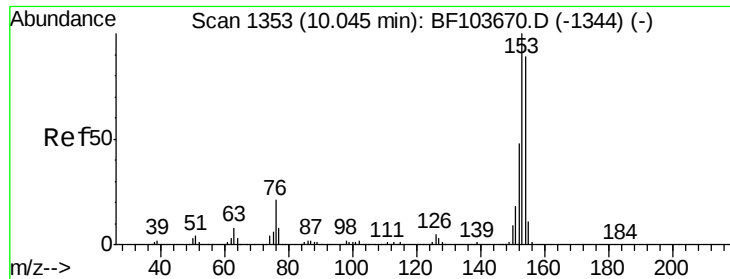
Delta R.T. -0.00 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Tgt Ion:	152	Resp:	467612
Ion Ratio	Lower	Upper	
152	100		
151	21.9	16.3	24.5
153	24.0	10.7	16.1#





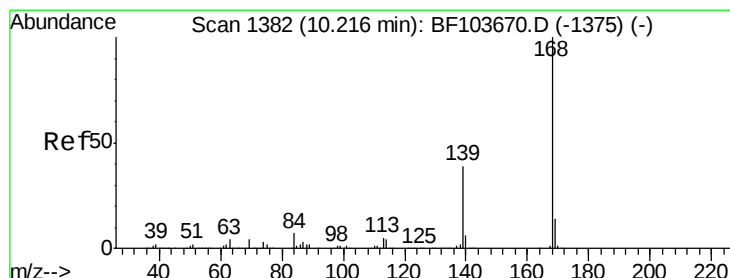
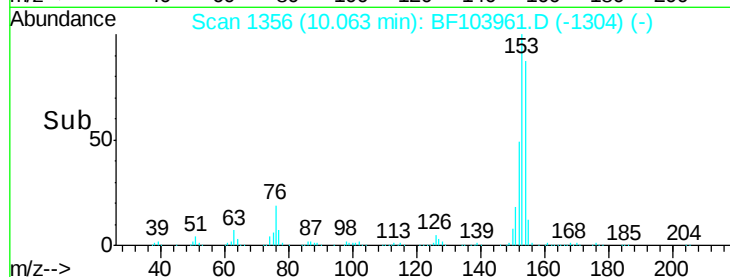
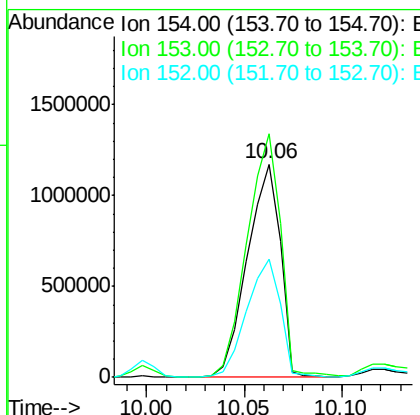
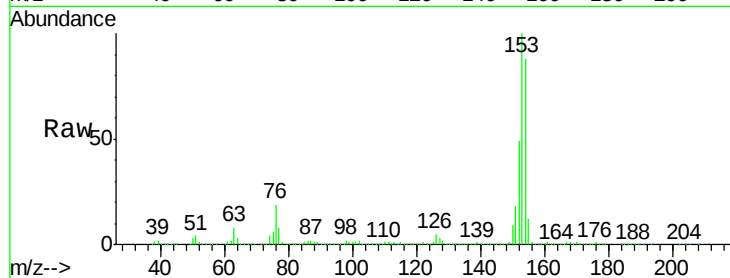
#51
Acenaphthene
Concen: 89.681 ng
RT: 10.06 min Scan# 1356
Delta R.T. 0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion:154 Resp: 1367992
Ion Ratio Lower Upper
154 100
153 114.2 91.2 136.8
152 55.5 43.8 65.8

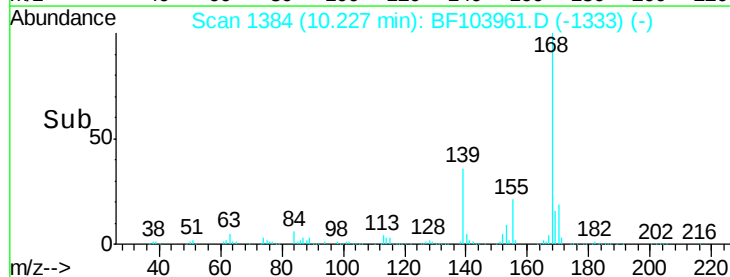
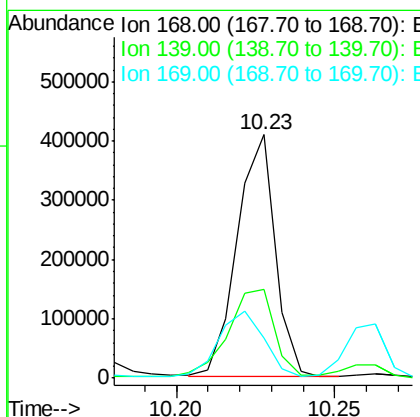
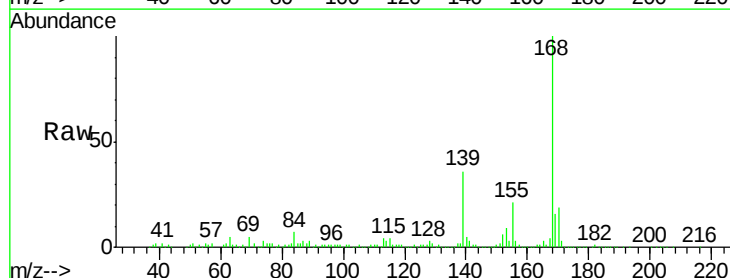
Manual Integrations
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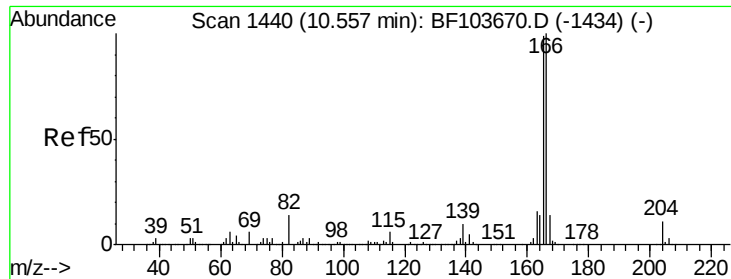
Sohil
3/27/2018 2:16:20 PM



#54
Dibenzofuran
Concen: 15.609 ng
RT: 10.23 min Scan# 1384
Delta R.T. -0.00 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Tgt Ion:168 Resp: 340062
Ion Ratio Lower Upper
168 100
139 36.4 30.1 45.1
169 16.5 10.9 16.3#





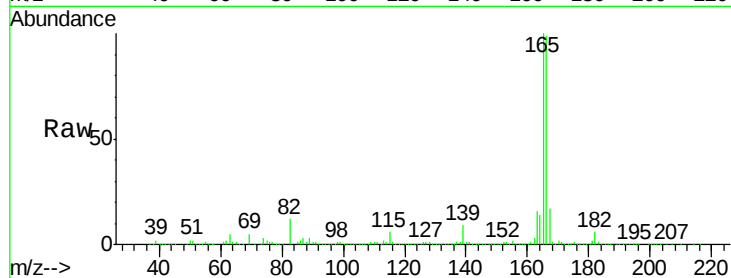
#57
Fluorene
 Concen: 74.510 ng
 RT: 10.57 min Scan# 1443
 Delta R.T. 0.01 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	101.3	79.8	119.8	
167	16.8	10.6	16.0	

Manual Integrations
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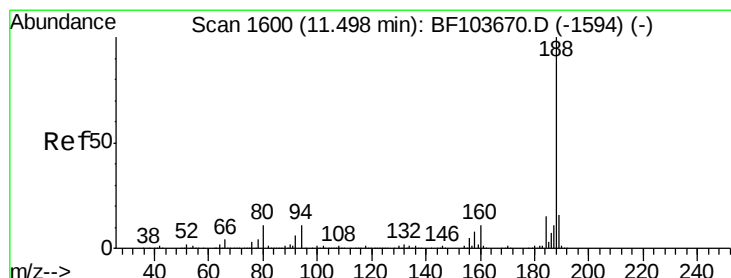
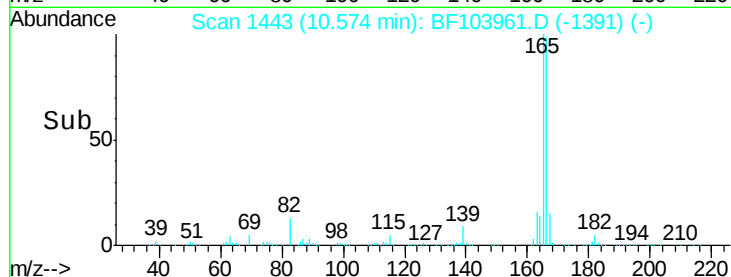
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

Time-->



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. 0.01 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	11.1	8.5	12.7	
80	11.5	9.2	13.8	

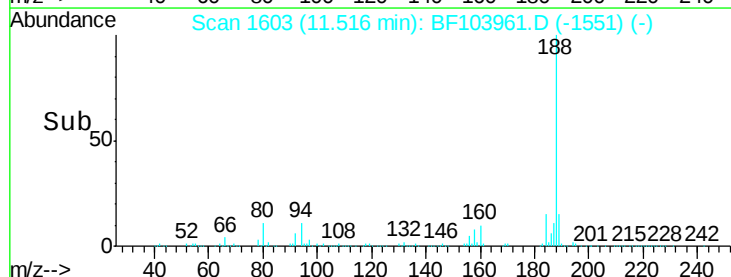
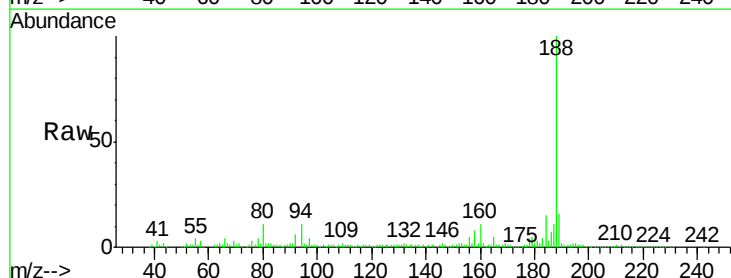
Abundance

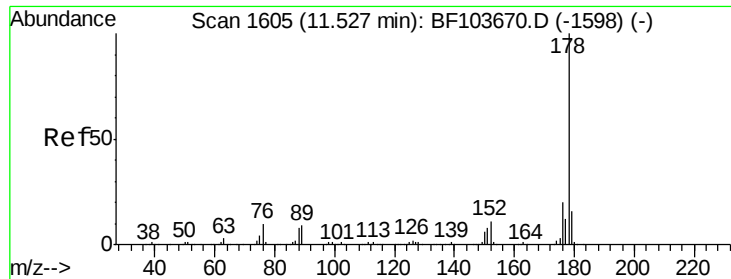
Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

Time-->





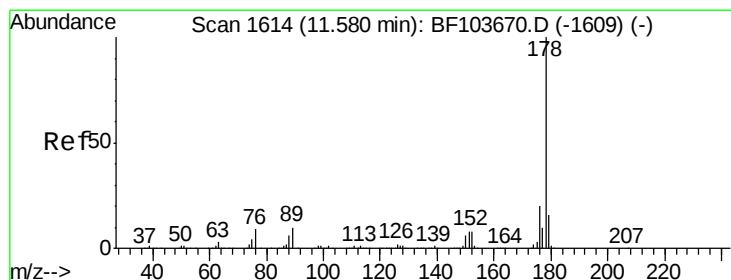
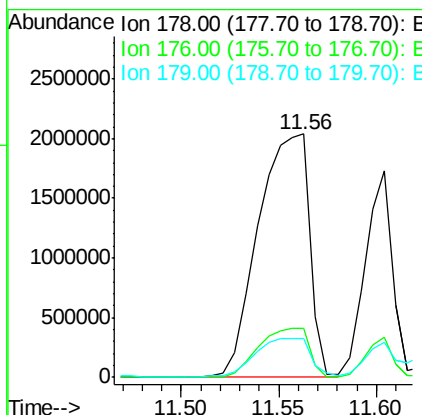
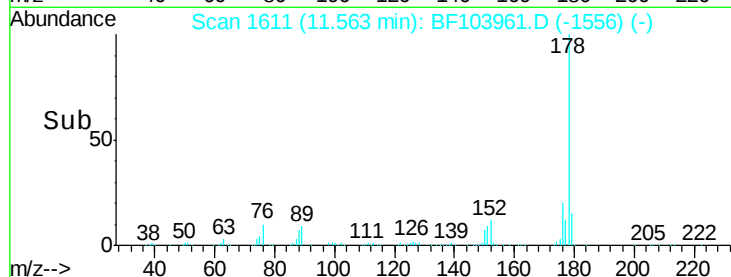
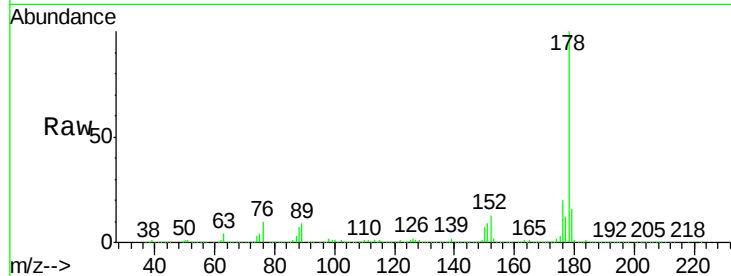
#70
Phenanthrene
Concen: 179.040 ng
RT: 11.56 min Scan# 1611
Delta R.T. 0.02 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion:178 Resp: 3679595
Ion Ratio Lower Upper
178 100
176 20.3 15.8 23.8
179 16.2 13.0 19.6

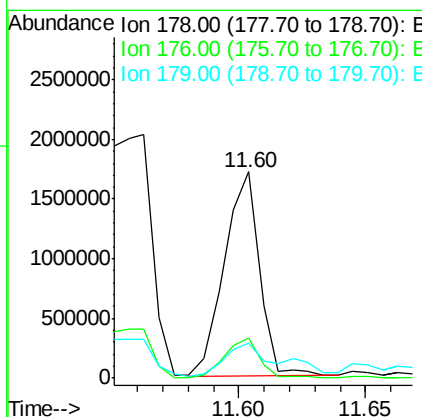
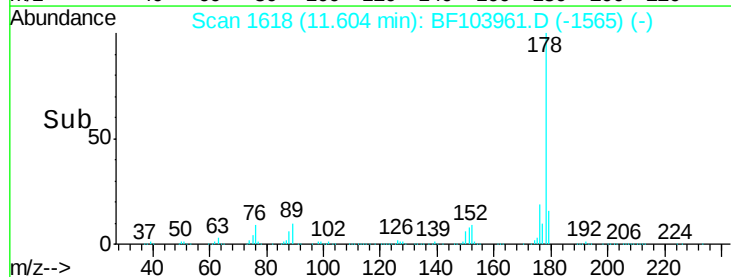
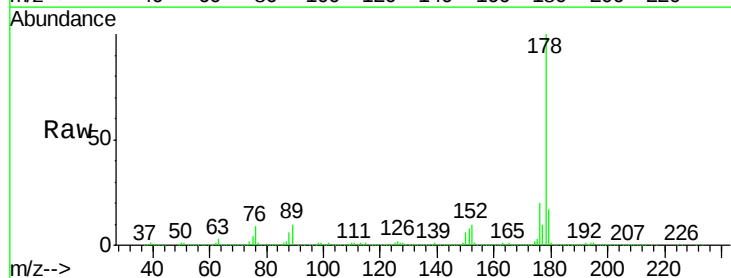
Manual Integrations
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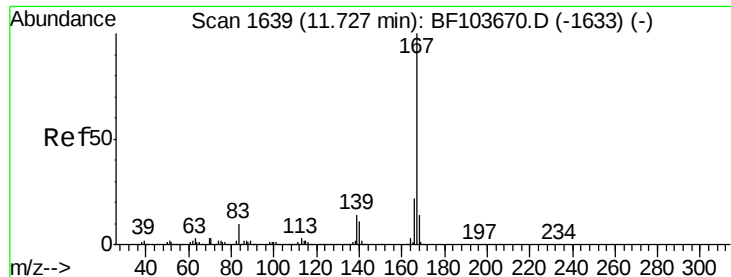
Sohil
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#71
Anthracene
Concen: 79.219 ng
RT: 11.60 min Scan# 1618
Delta R.T. 0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Tgt Ion:178 Resp: 1653596
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 16.7 12.6 19.0





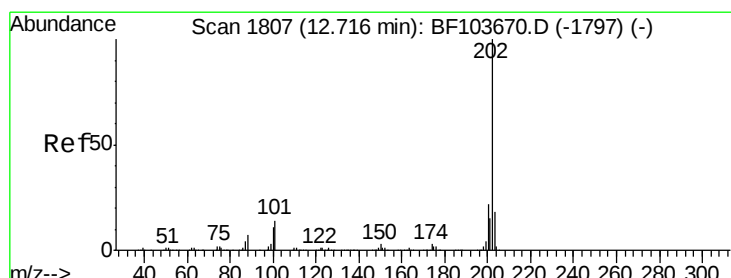
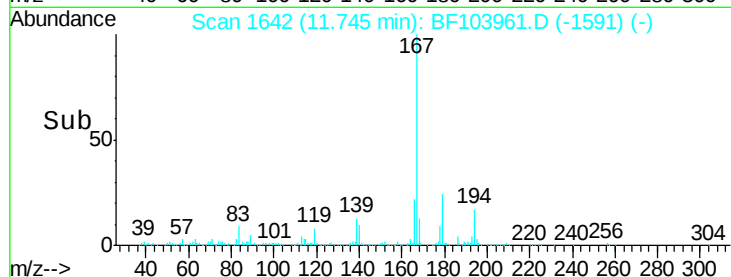
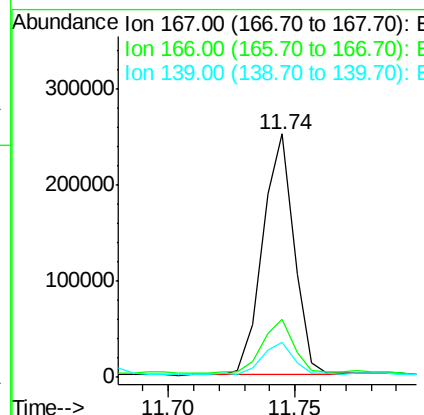
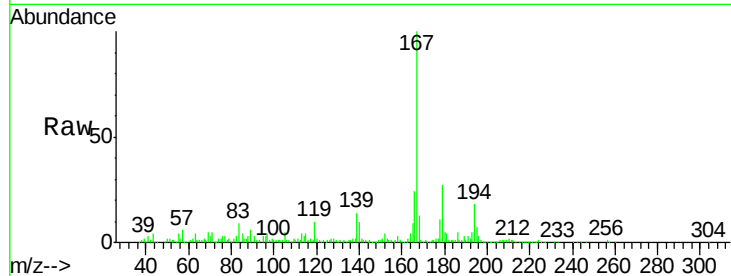
#72
 Carbazole
 Concen: 10.743 ng
 RT: 11.74 min Scan# 1642
 Delta R.T. -0.00 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.7	17.6	26.4
139	14.2	10.9	16.3

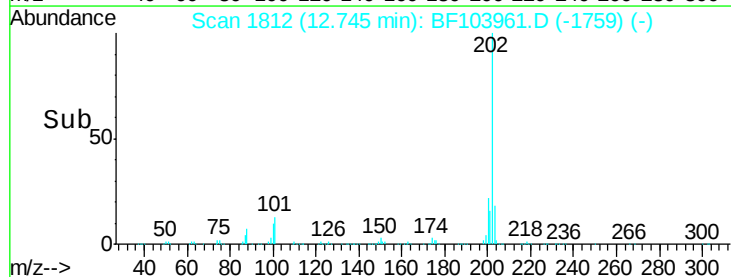
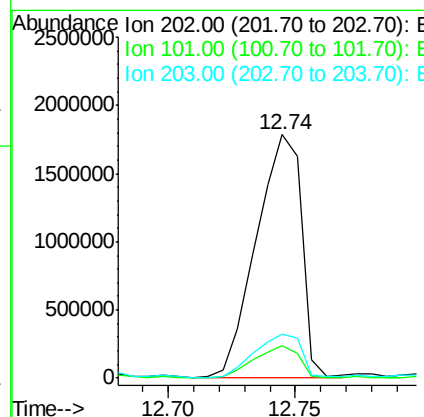
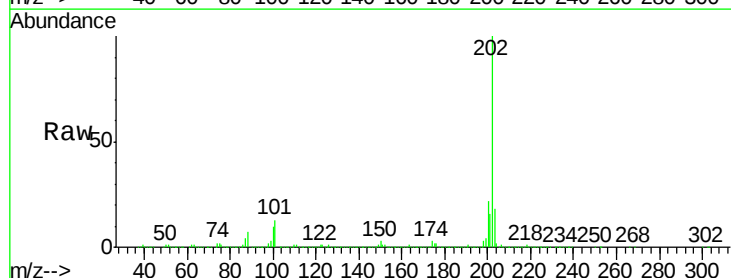
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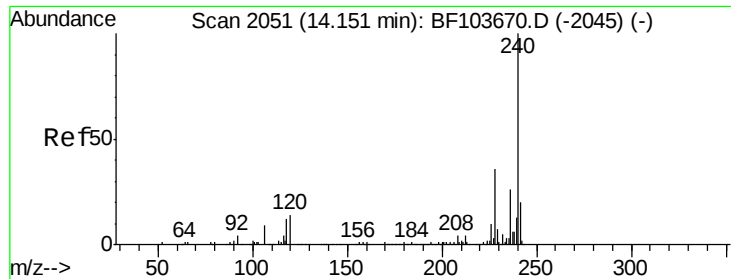
Sohil
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#74
 Fluoranthene
 Concen: 104.570 ng
 RT: 12.74 min Scan# 1812
 Delta R.T. 0.01 min
 Lab File: BF103961.D
 Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	34.1
203	18.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2055

Delta R.T. 0.01 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Instrument :

BNA_F

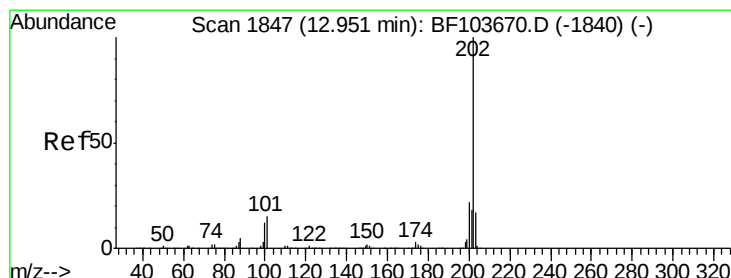
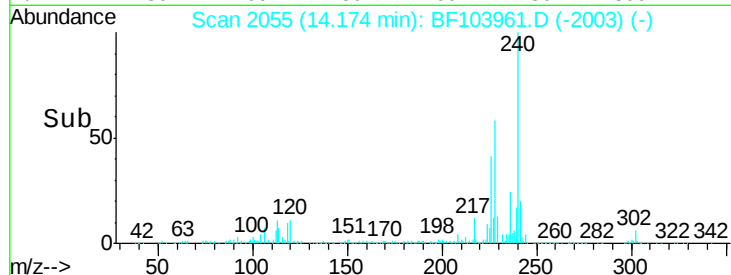
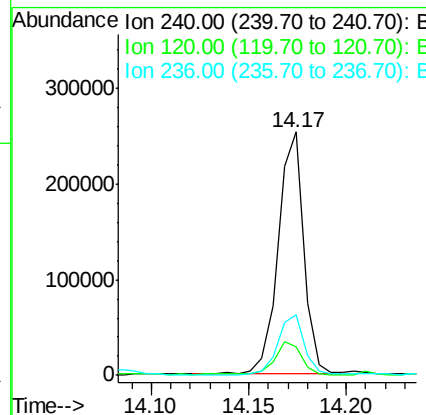
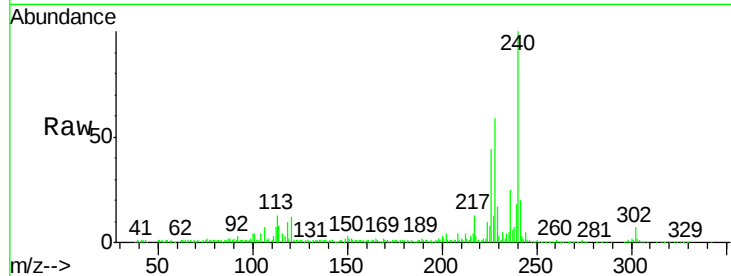
ClientSampleId :

A2_SB17_W_8DL

Tot Ion:	240	Resp:	229747
Ion Ratio	Lower	Upper	
240	100		
120	11.5	9.5	14.3
236	25.0	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 166.244 ng

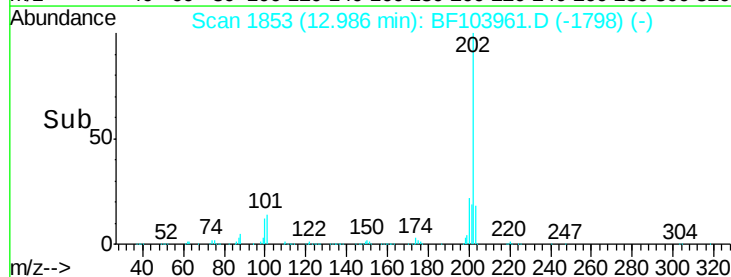
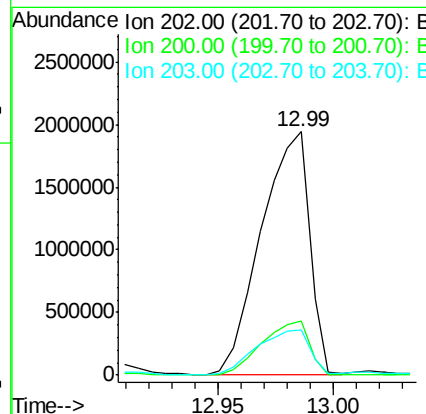
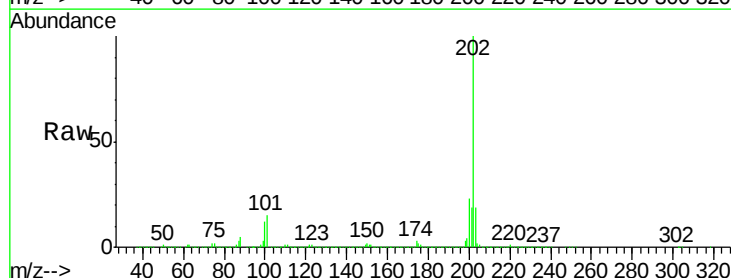
RT: 12.99 min Scan# 1853

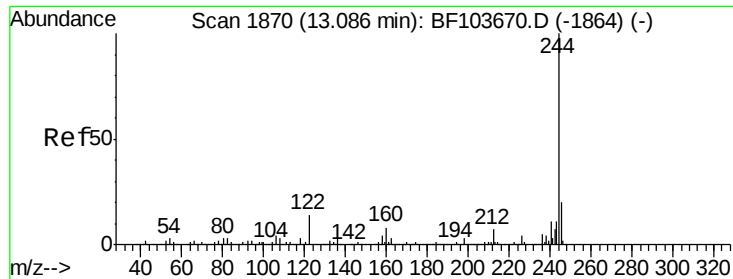
Delta R.T. 0.02 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Tgt Ion:	202	Resp:	2804950
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.4	26.2
203	18.8	14.3	21.5





#78

Terphenyl-d14

Concen: 4.394 ng

RT: 13.10 min Scan# 1872

Delta R.T. -0.00 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Instrument :

BNA_F

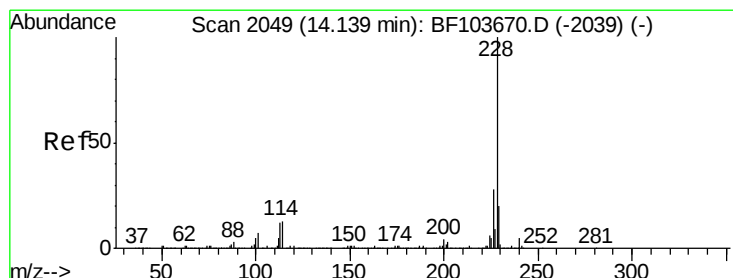
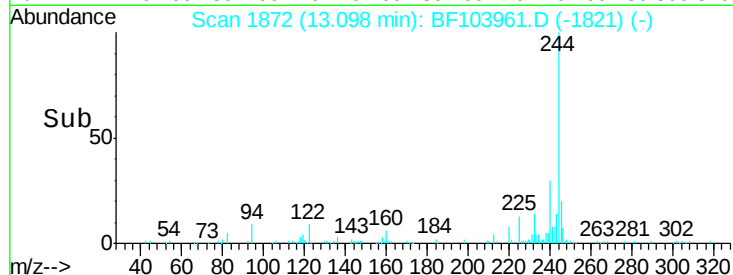
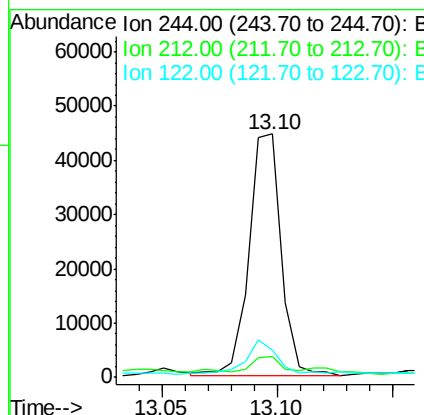
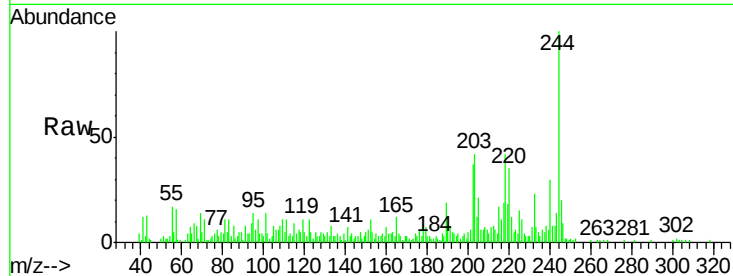
ClientSampleId :

A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.3	5.4	8.0#
122	11.0	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 73.279 ng m

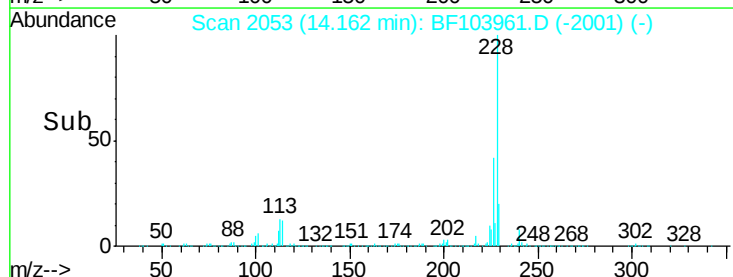
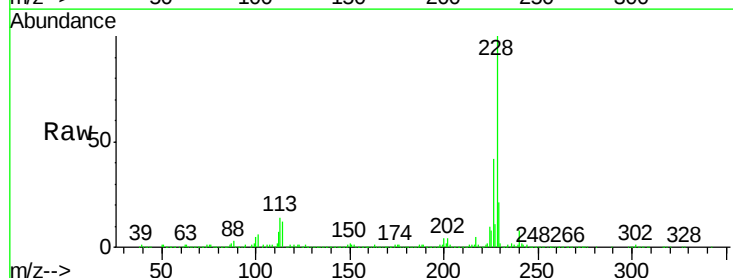
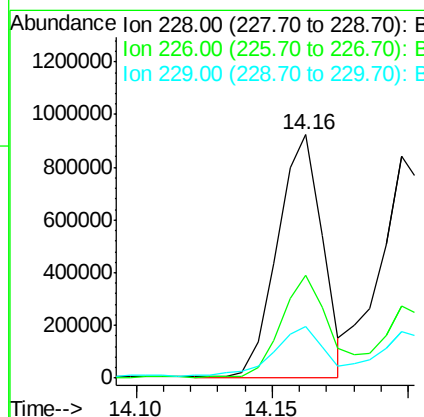
RT: 14.16 min Scan# 2053

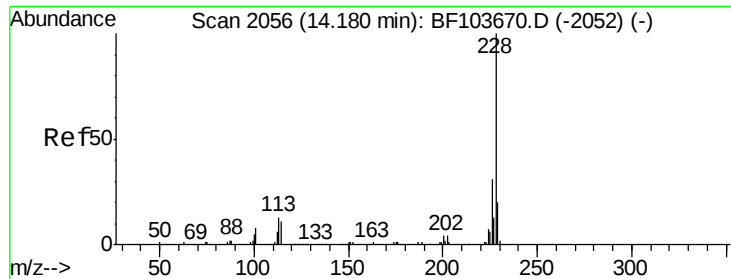
Delta R.T. 0.01 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	42.5	22.6	33.8#
229	21.4	15.8	23.6





#82

Chrysene

Concen: 69.212 ng m

RT: 14.20 min Scan# 2059

Delta R.T. -0.00 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Instrument :

BNA_F

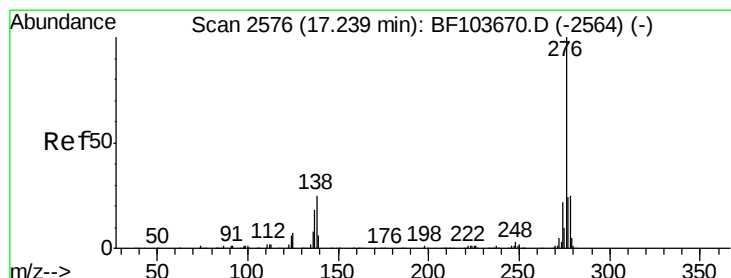
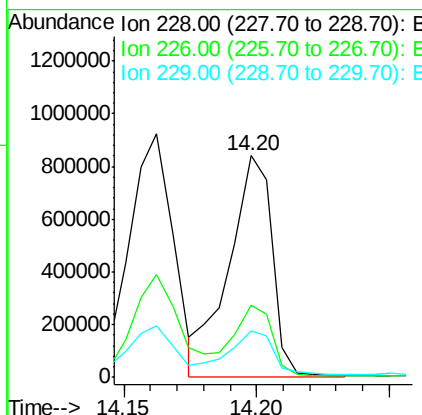
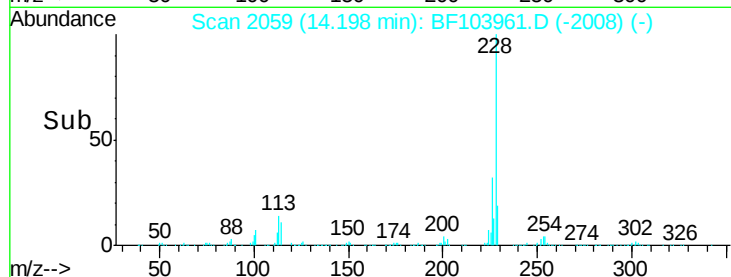
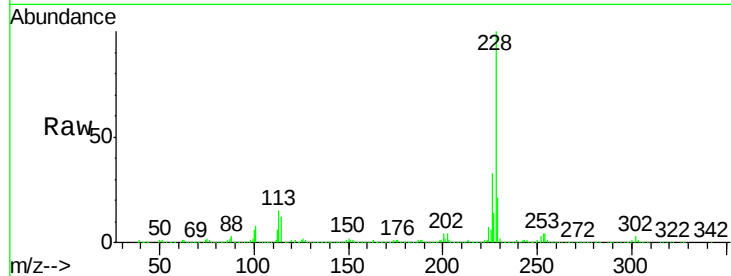
ClientSampleId :

A2_SB17_W_8DL

Tot Ion:	228	Resp:	959491
Ion Ratio	Lower	Upper	
228	100		
226	32.7	25.0	37.6
229	21.2	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 30.267 ng m

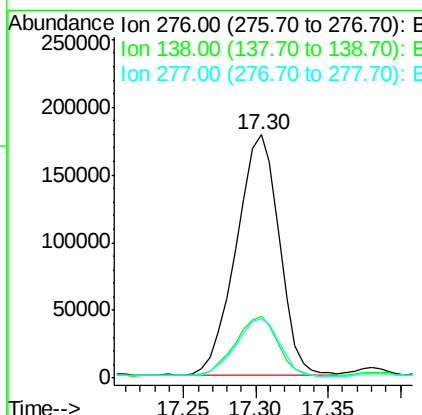
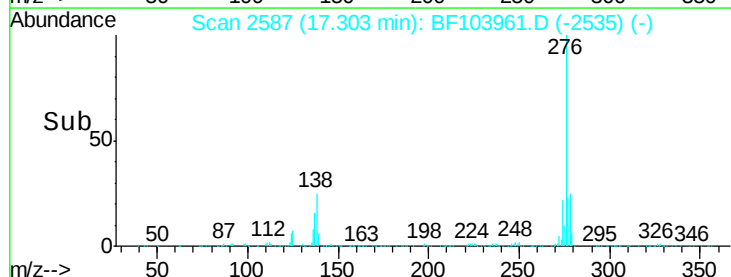
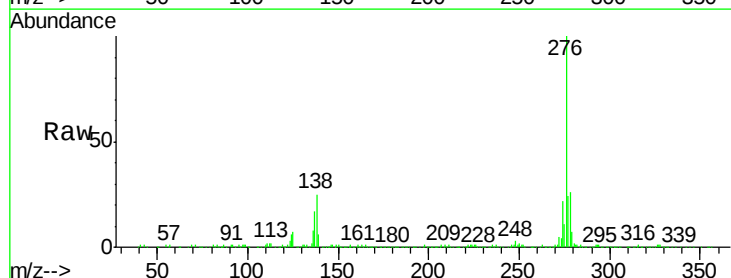
RT: 17.30 min Scan# 2587

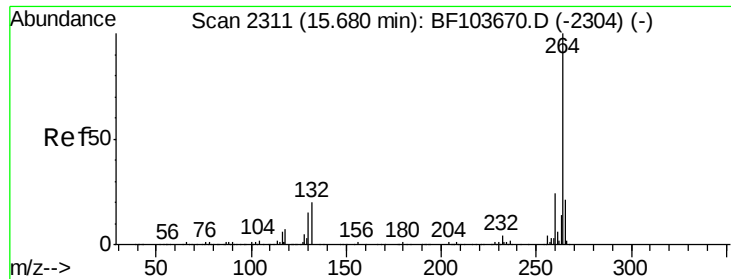
Delta R.T. 0.01 min

Lab File: BF103961.D

Acq: 27 Mar 2018 8:08

Tgt Ion:	276	Resp:	366434
Ion Ratio	Lower	Upper	
276	100		
138	1.5	25.0	37.6#
277	1.2	20.1	30.1#





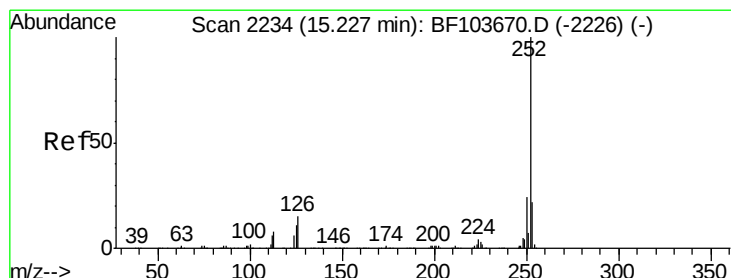
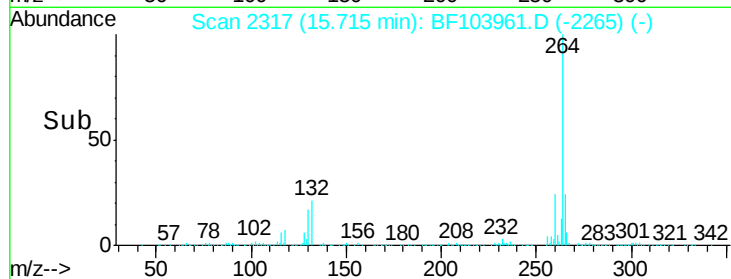
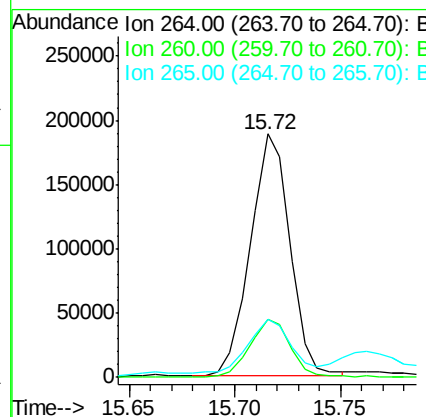
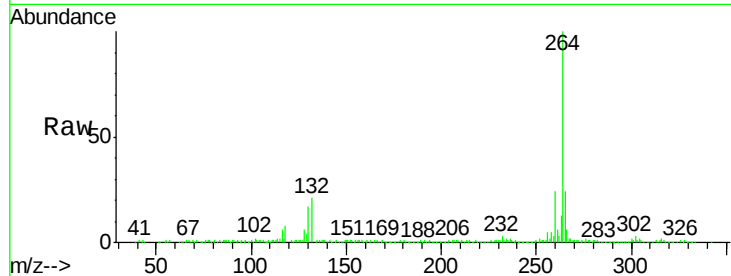
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	24.0	17.5	26.3

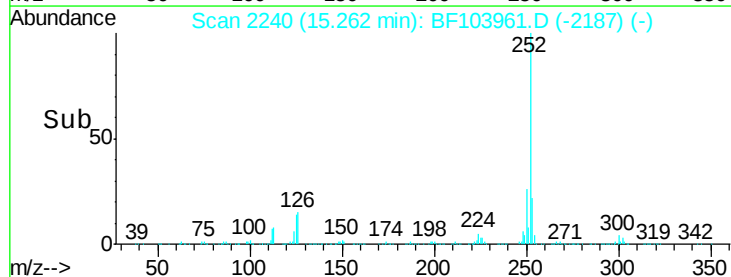
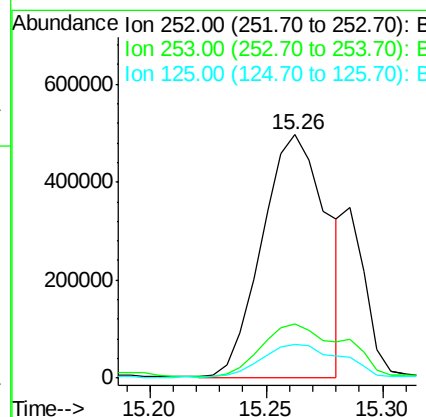
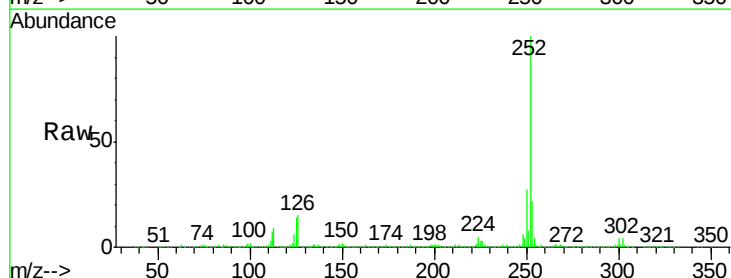
Manual Integrations
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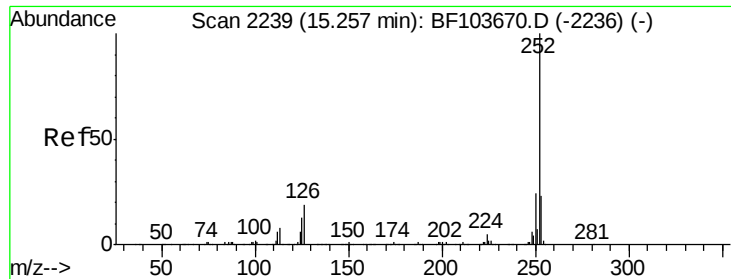
Sohil
3/27/2018 2:16:20 PM



#87
Benzo(b)fluoranthene
Concen: 62.398 ng m
RT: 15.26 min Scan# 2240
Delta R.T. 0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	14.0	9.0	13.6





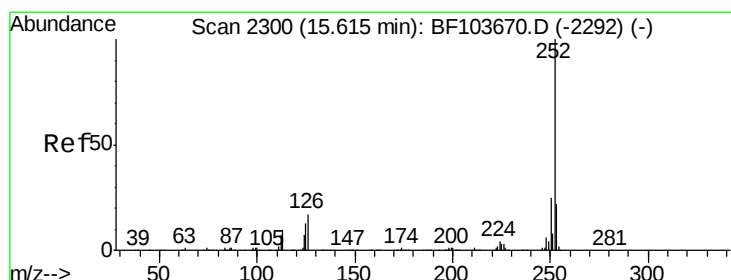
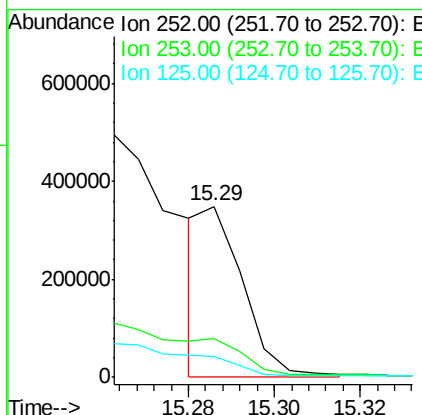
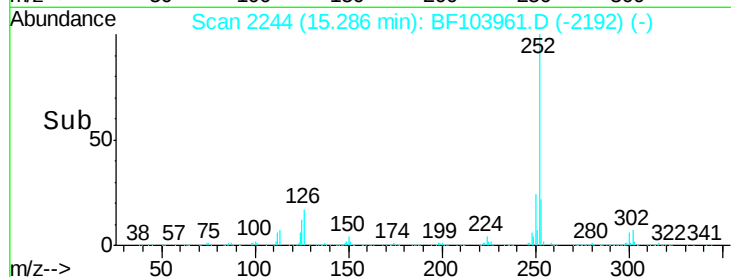
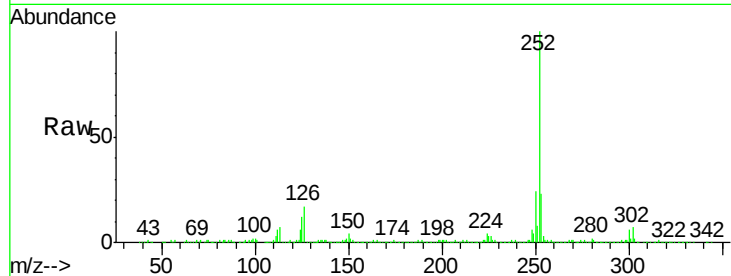
#88
Benzo(k)fluoranthene
Concen: 15.527 ng m
RT: 15.29 min Scan# 2244
Delta R.T. 0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	12.4	10.2	15.2

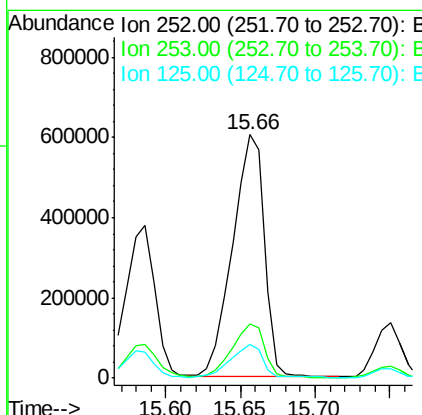
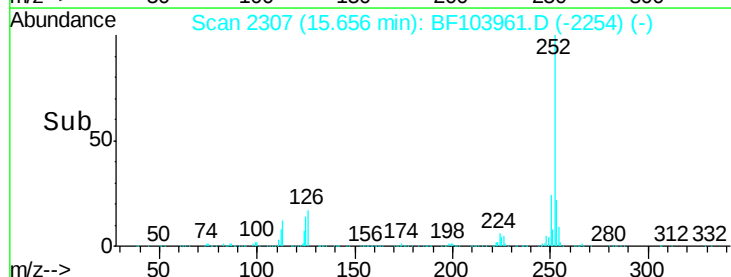
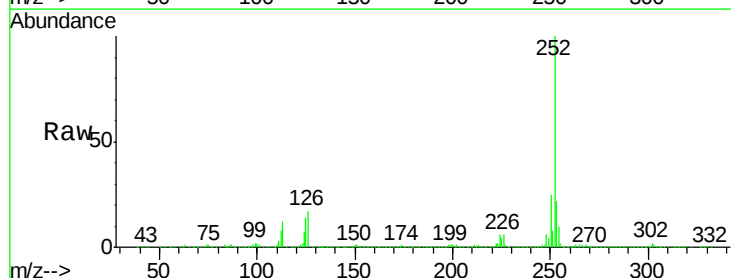
Manual Integrations
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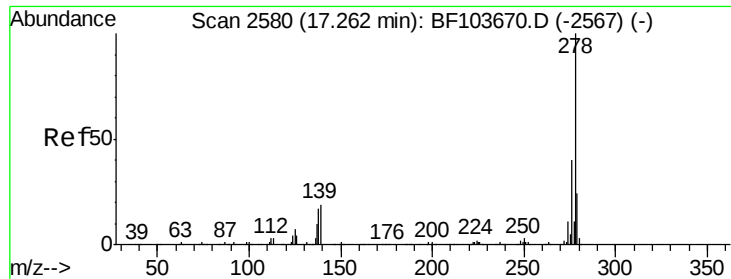
Sohil
3/27/2018 2:16:20 PM



#89
Benzo(a)pyrene
Concen: 64.183 ng
RT: 15.66 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	13.8	9.8	14.6





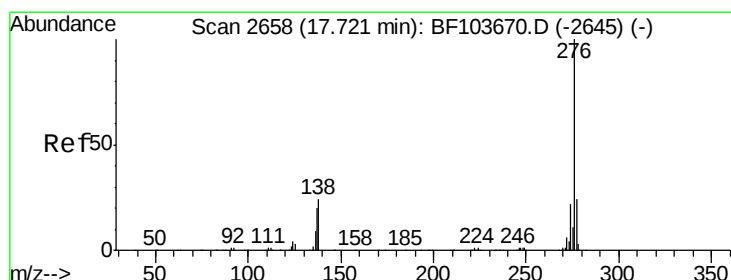
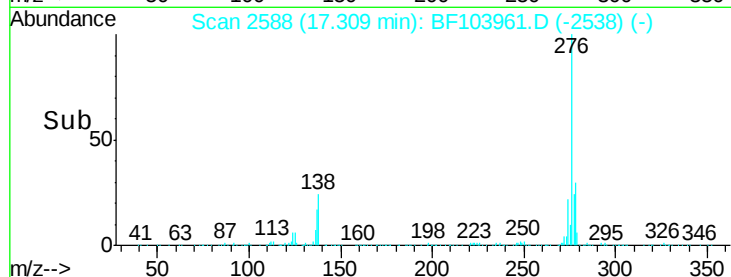
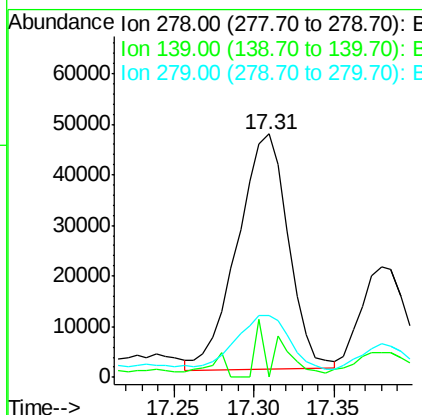
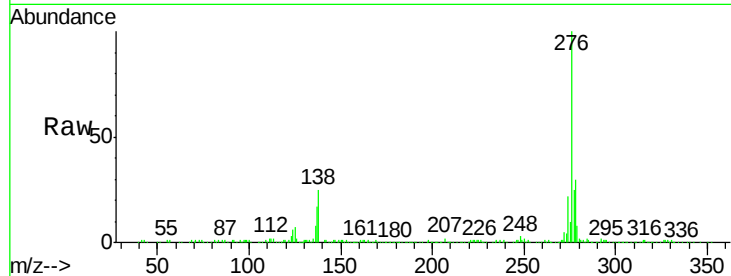
#90
Dibenzo(a,h)anthracene
Concen: 8.514 ng m
RT: 17.31 min Scan# 2588
Delta R.T. -0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	25.5	19.0	28.4

Manual Integrations
APPROVED

Sohil
3/27/2018 2:16:20 PM



#91
Benzo(g,h,i)perylene
Concen: 29.984 ng
RT: 17.79 min Scan# 2670
Delta R.T. 0.01 min
Lab File: BF103961.D
Acq: 27 Mar 2018 8:08

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	17.9	26.9
138	24.3	21.8	32.8

