

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
 Data File : BF103960.D
 Acq On : 27 Mar 2018 7:41
 Operator : JU/SJ
 Sample : J2049-01 10X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB17 W 8

Manual Integrations
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 3/27/2018 2:16:17 PM

Quant Time: Mar 27 09:02:43 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	135286	20.00	ng	0.00
21) Naphthalene-d8	8.27	136	439125	20.00	ng	0.01
38) Acenaphthene-d10	10.02	164	229847	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	299359	20.00	ng	0.01
75) Chrysene-d12	14.18	240	200689	20.00	ng	0.01
86) Perylene-d12	15.73	264	262756	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.59	112	89979	10.12	ng	0.00
7) Phenol-d6	6.59	99	112076	10.30	ng	-0.01
23) Nitrobenzene-d5	7.53	82	58386	9.27	ng	0.00
41) 2,4,6-Tribromophenol	10.82	330	18259	9.24	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	108782	7.55	ng	0.00
78) Terphenyl-d14	13.10	244	73992	8.56	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.32	128	6867620	309.599	ng	98
37) 2-Methylnaphthalene	9.00	142	3014526	214.297	ng	# 94
45) 1,1'-Biphenyl	9.44	154	967745	50.493	ng	99
48) Acenaphthylene	9.89	152	733136	31.058	ng	# 95
51) Acenaphthene	10.07	154	1953491	139.372	ng	99
54) Dibenzofuran	10.23	168	558140	27.881	ng	98
57) Fluorene	10.59	166	1854210	119.367	ng	# 97
70) Phenanthrene	11.56	178	4977854	303.980	ng	99
71) Anthracene	11.62	178	2268478	136.392	ng	96
72) Carbazole	11.75	167	350800	21.700	ng	97
74) Fluoranthene	12.76	202	3180932	188.548	ng	98
77) Pylene	13.00	202	4139712	280.878	ng	98
80) Benzo(a)anthracene	14.17	228	1913233m	150.606	ng	
82) Chrysene	14.21	228	1629682	134.576	ng	97
85) Indeno(1,2,3-cd)pyrene	17.33	276	772699	73.066	ng	# 92
87) Benzo(b)fluoranthene	15.28	252	1819313m	109.595	ng	
88) Benzo(k)fluoranthene	15.30	252	565124m	35.415	ng	
89) Benzo(a)pyrene	15.68	252	1794174	119.162	ng	97
90) Dibenzo(a,h)anthracene	17.33	278	207742	15.934	ng	97
91) Benzo(a,h,i)perylene	17.82	276	745402	58.770	ng	95

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

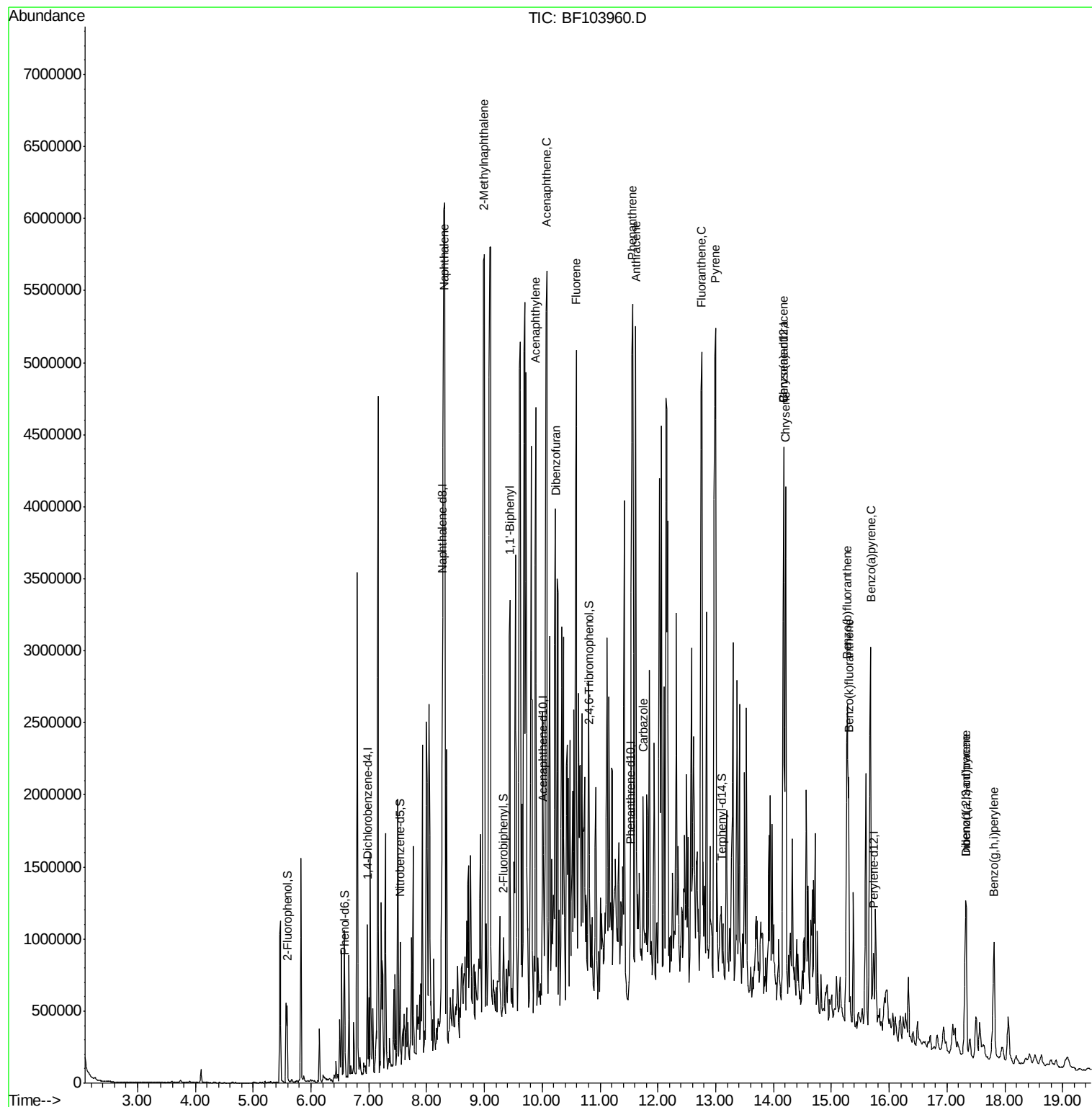
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103960.D
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Sample : J2049-01 10X
Misc :
ALS Vial : 31 Sample Multiplier: 1

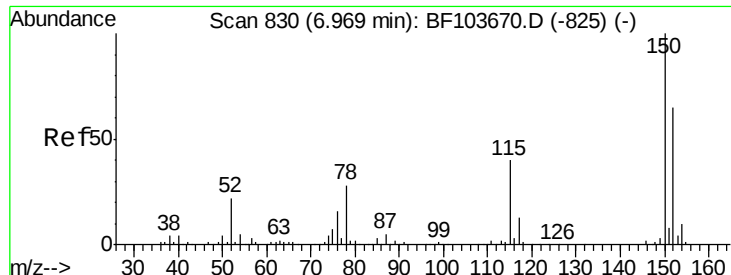
Instrument :
BNA_F
ClientSampleId :
A2 SB17 W 8

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Quant Time: Mar 27 09:02:43 2018
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#1

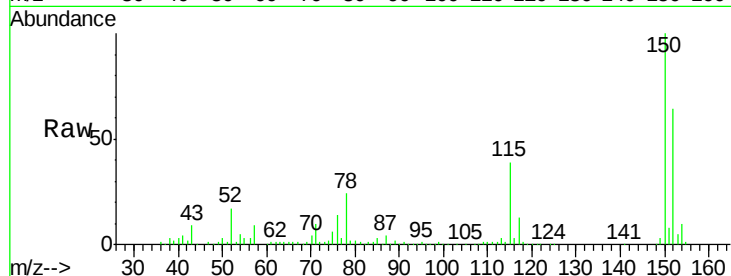
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.6	186.8
115	61.5	50.1	75.1

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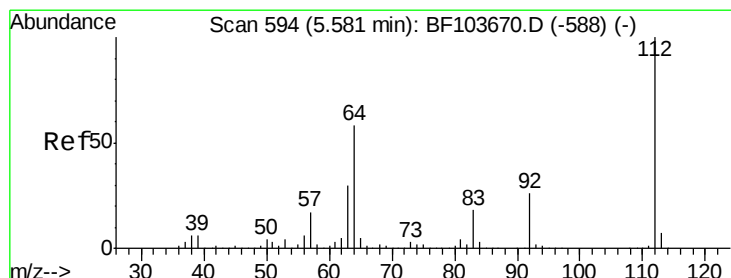
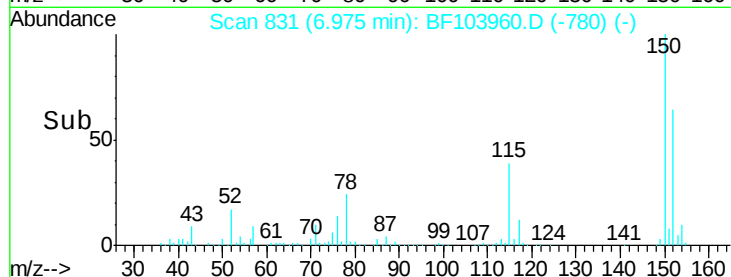
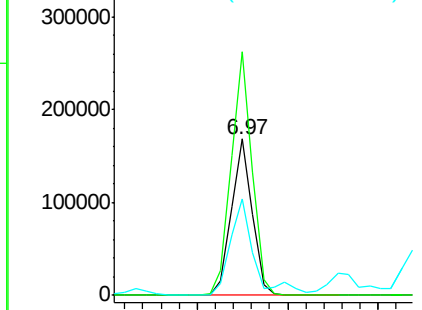


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

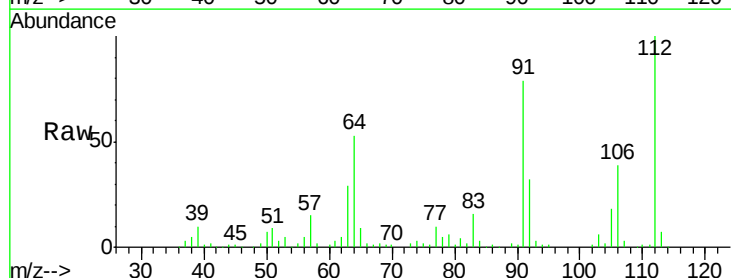
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 10.116 ng
RT: 5.59 min Scan# 595
Delta R.T. -0.01 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.2	47.9	71.9
63	29.3	23.7	35.5

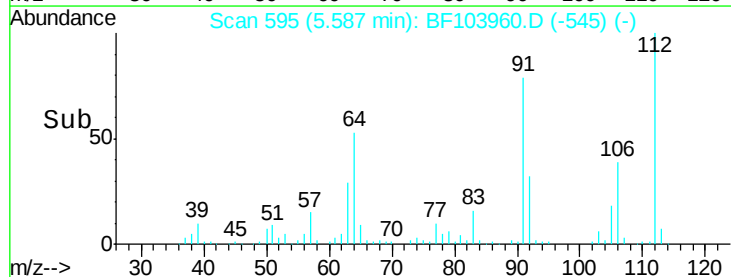
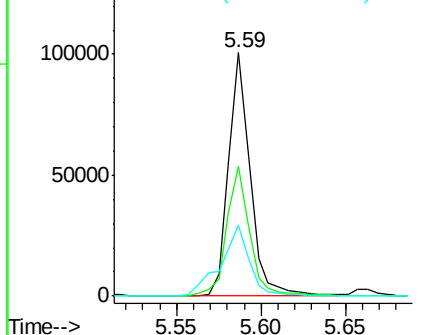


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 10.299 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

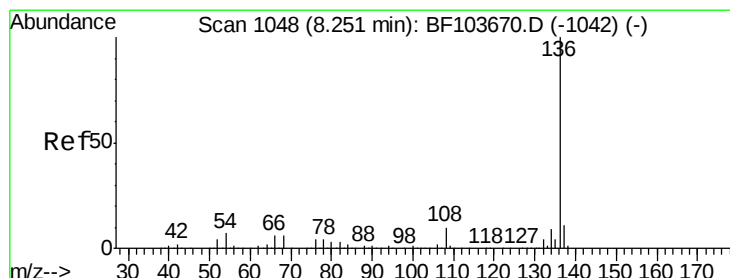
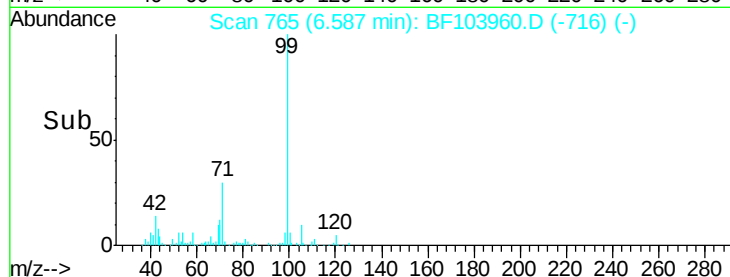
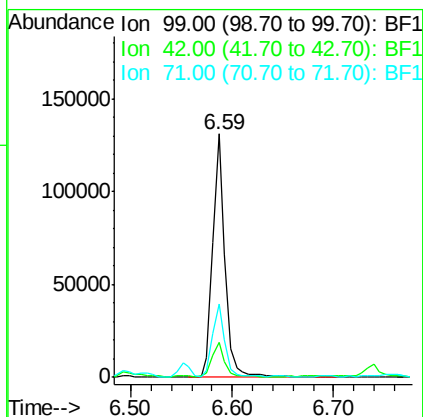
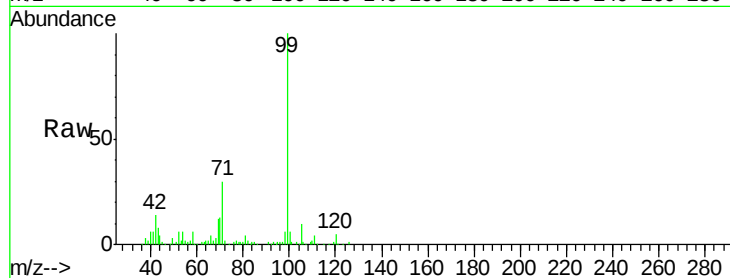
ClientSampleId :

A2_SB17_W_8

Tot Ion:	99	Resp:	112076
Ion Ratio	Lower	Upper	
99	100		
42	14.3	14.5	21.7#
71	30.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

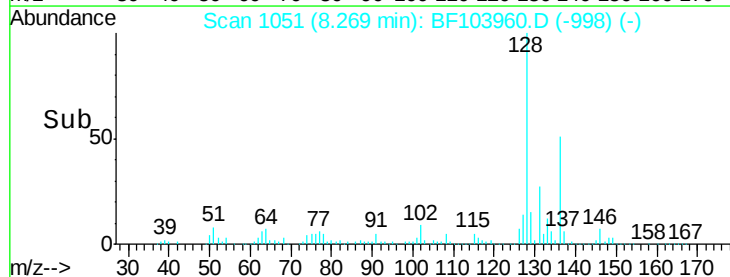
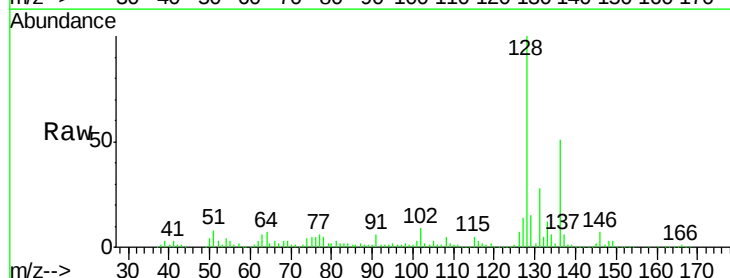
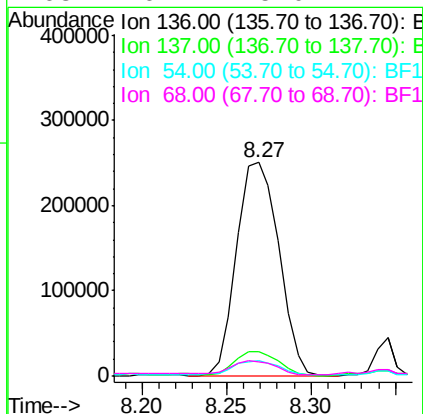
RT: 8.27 min Scan# 1051

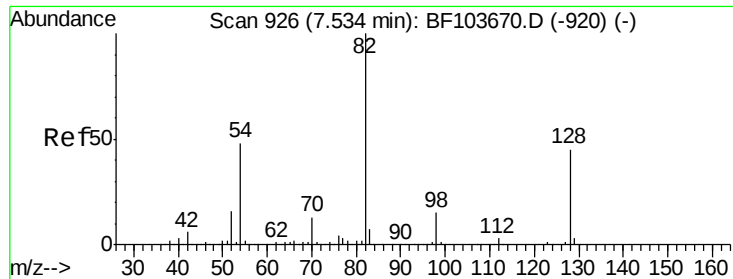
Delta R.T. 0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Tgt Ion:	136	Resp:	439125
Ion Ratio	Lower	Upper	
136	100		
137	11.5	8.9	13.3
54	7.2	6.6	9.8
68	6.7	5.0	7.4





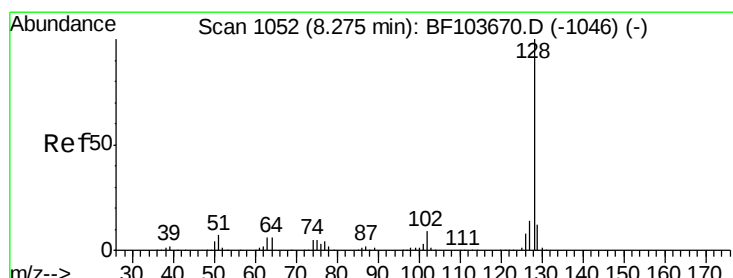
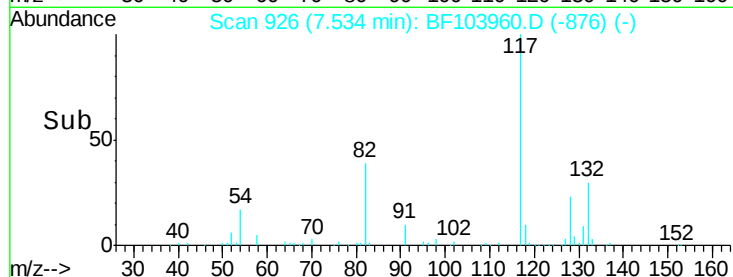
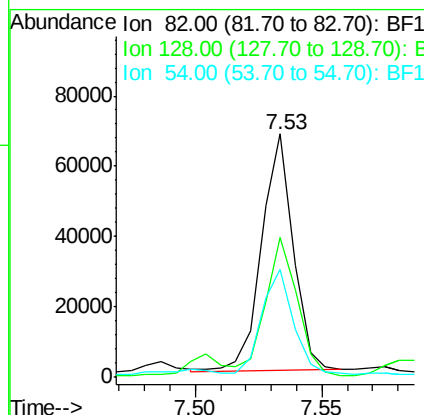
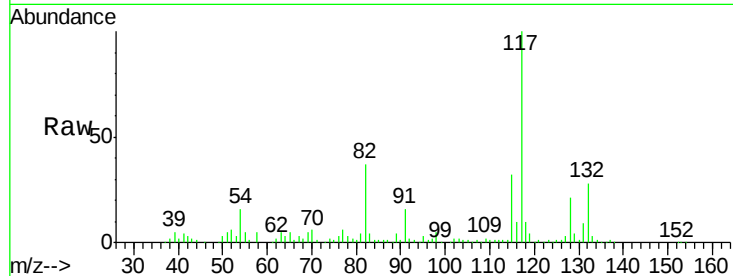
#23
Nitrobenzene-d5
Concen: 9.272 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.01 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8

Tot Ion	Ratio	Lower	Upper
82	100		
128	57.2	36.1	54.1#
54	44.2	41.4	62.2

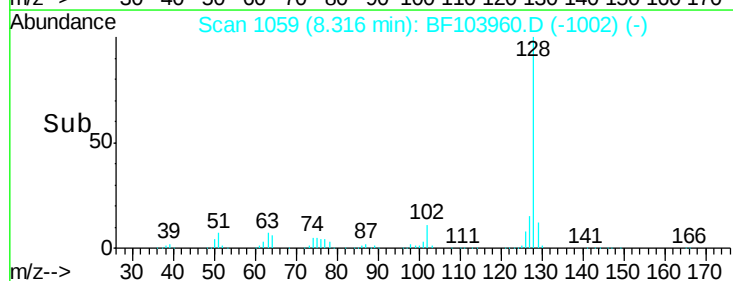
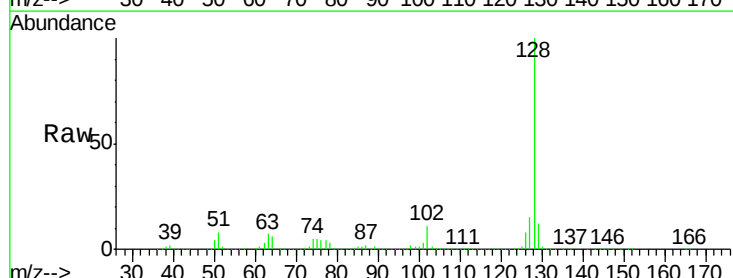
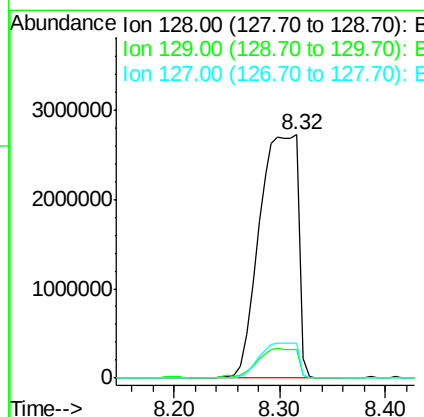
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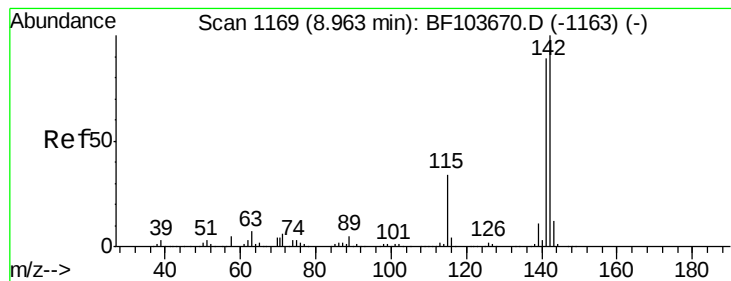
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#31
Naphthalene
Concen: 309.599 ng
RT: 8.32 min Scan# 1059
Delta R.T. 0.04 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	14.6	10.9	16.3





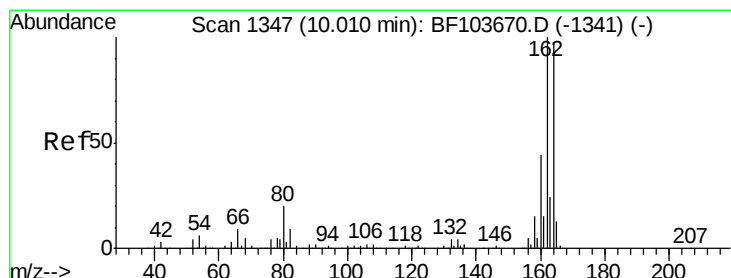
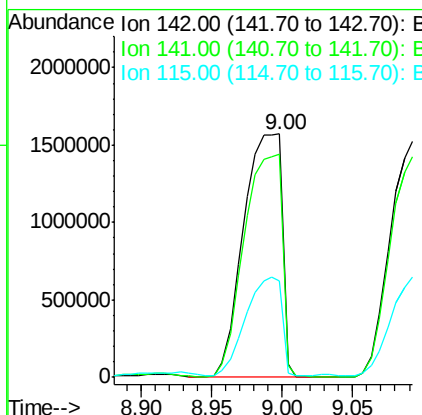
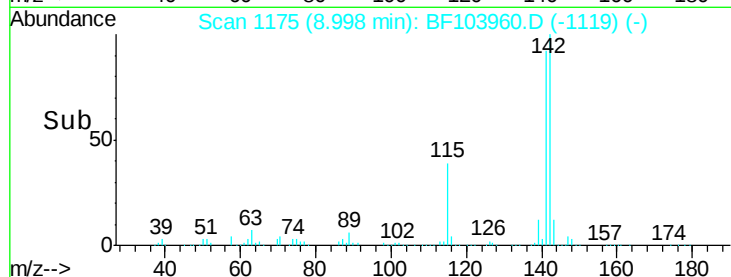
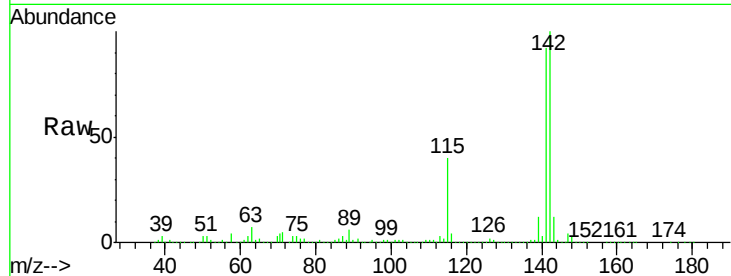
#37
2-Methylnaphthalene
Concen: 214.297 ng
RT: 9.00 min Scan# 1175
Delta R.T. 0.03 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8

Tot Ion:142 Resp: 3014526
Ion Ratio Lower Upper
142 100
141 91.7 70.8 106.2
115 39.6 26.1 39.1#

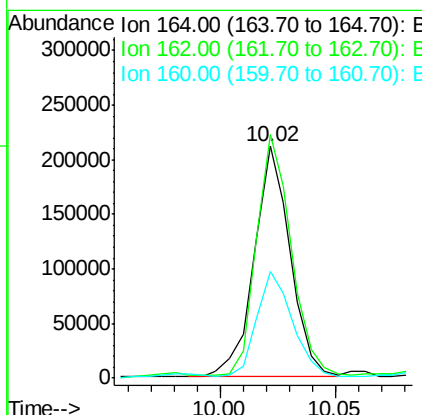
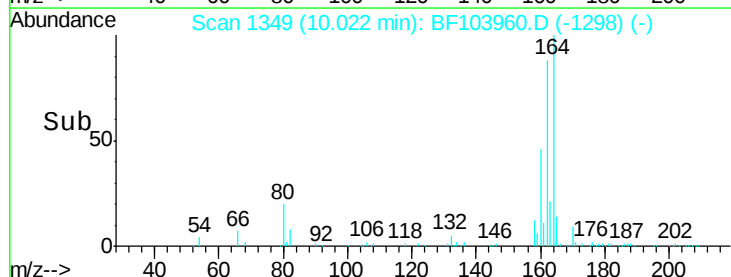
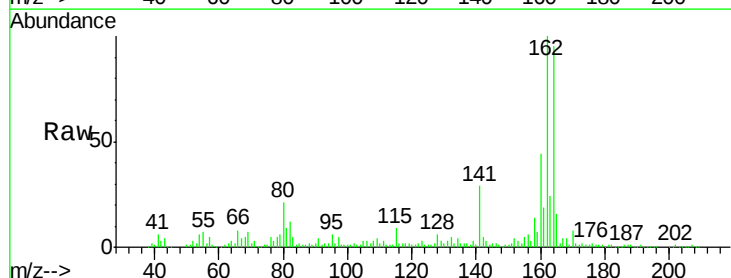
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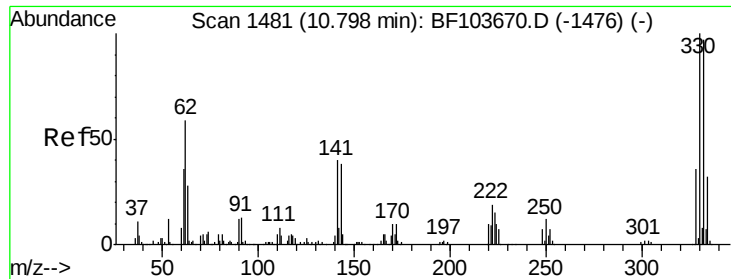
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1349
Delta R.T. -0.00 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Tgt Ion:164 Resp: 229847
Ion Ratio Lower Upper
164 100
162 105.1 86.1 129.1
160 46.2 38.3 57.5





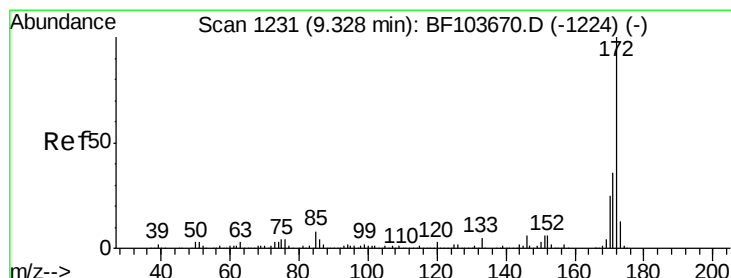
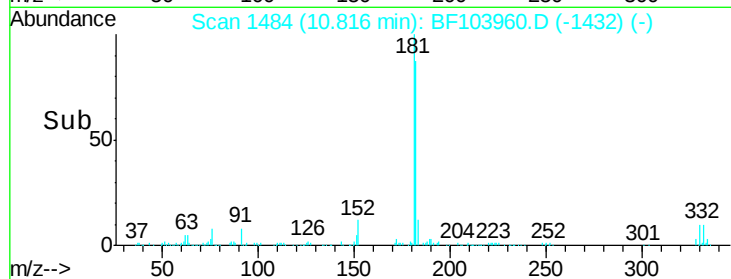
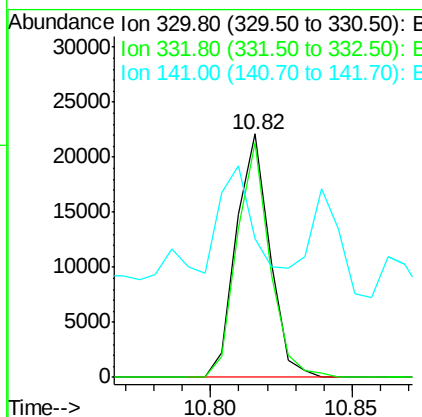
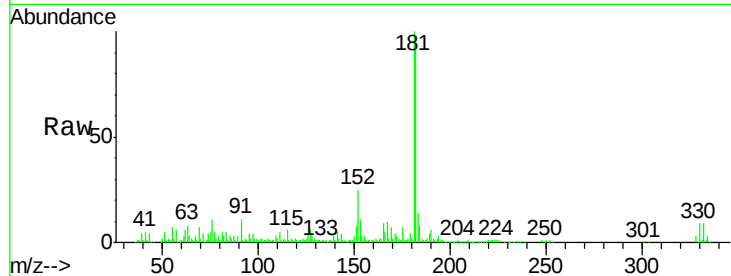
#41
 2,4,6-Tribromophenol
 Concen: 9.239 ng
 RT: 10.82 min Scan# 1484
 Delta R.T. 0.01 min
 Lab File: BF103960.D
 Acq: 27 Mar 2018 7:41

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.7	77.0	115.6
141	111.0	29.9	44.9

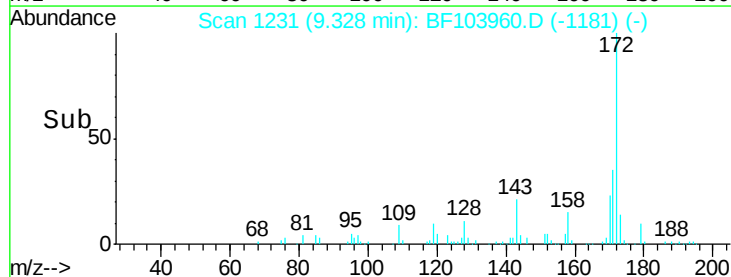
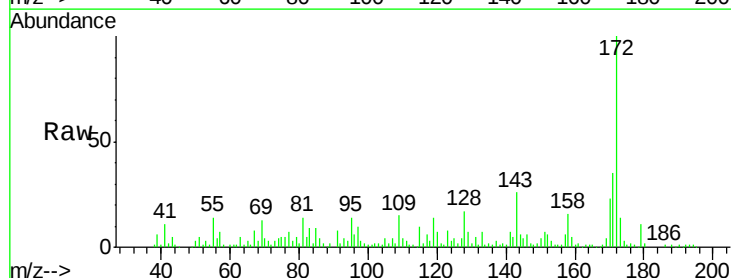
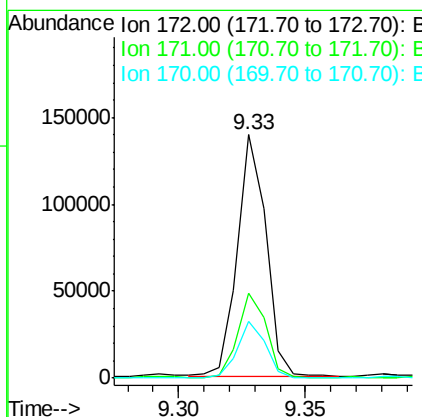
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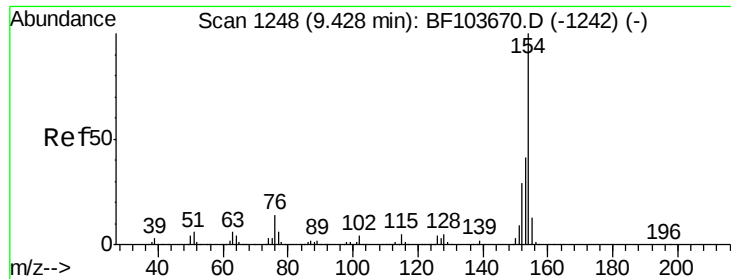
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#44
 2-Fluorobiphenyl
 Concen: 7.550 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103960.D
 Acq: 27 Mar 2018 7:41

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.7	44.5
170	23.1	19.6	29.4





#45

1,1'-Biphenyl

Concen: 50.493 ng

RT: 9.44 min Scan# 1250

Delta R.T. 0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

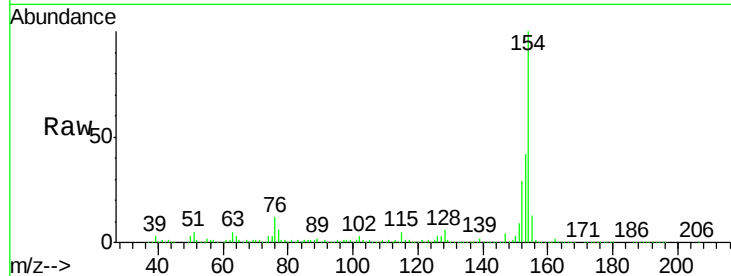
ClientSampleId :

A2_SB17_W_8

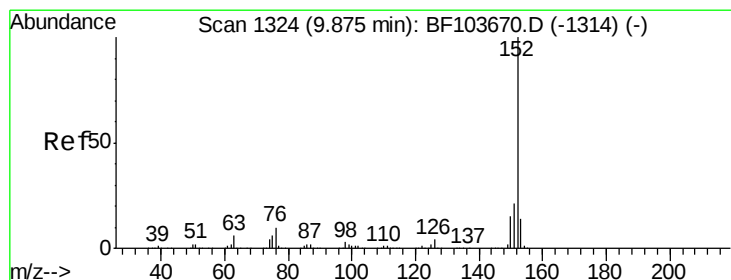
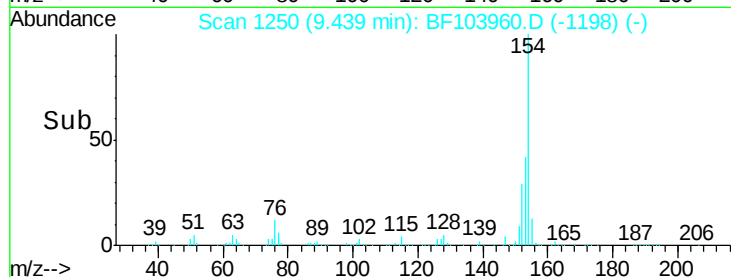
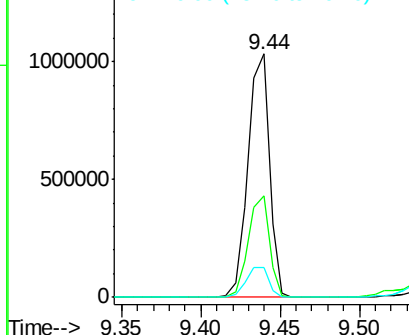
Tot Ion:	154	Resp:	967745
Ion Ratio	Lower	Upper	
154	100		
153	41.7	21.3	61.3
76	12.3	0.0	34.0

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 31.058 ng

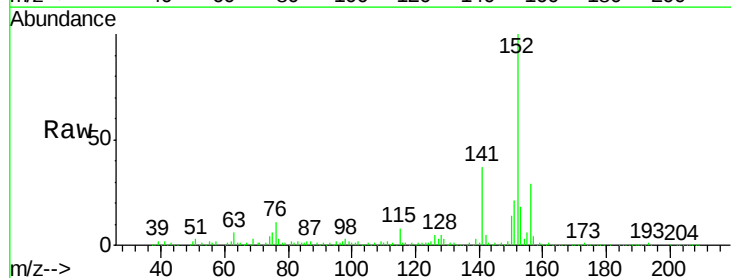
RT: 9.89 min Scan# 1327

Delta R.T. 0.01 min

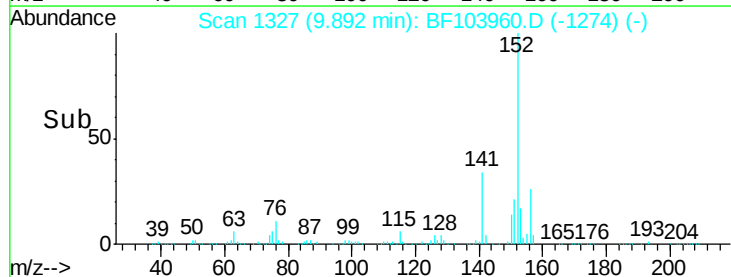
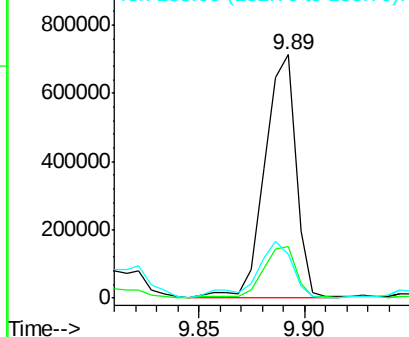
Lab File: BF103960.D

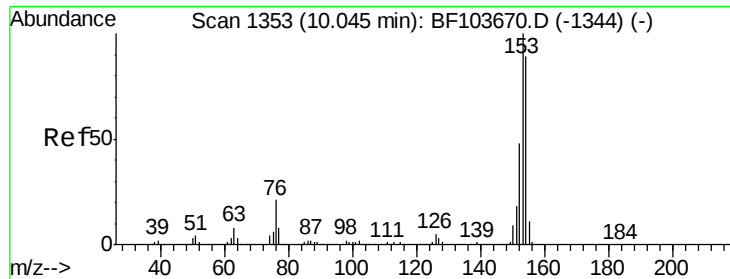
Acq: 27 Mar 2018 7:41

Tgt Ion:	152	Resp:	733136
Ion Ratio	Lower	Upper	
152	100		
151	21.1	16.3	24.5
153	17.8	10.7	16.1#



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





#51

Acenaphthene

Concen: 139.372 ng

RT: 10.07 min Scan# 1357

Delta R.T. 0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

ClientSampleId :

A2_SB17_W_8

Tot Ion:154 Resp: 1953491

Ion Ratio Lower Upper

154 100

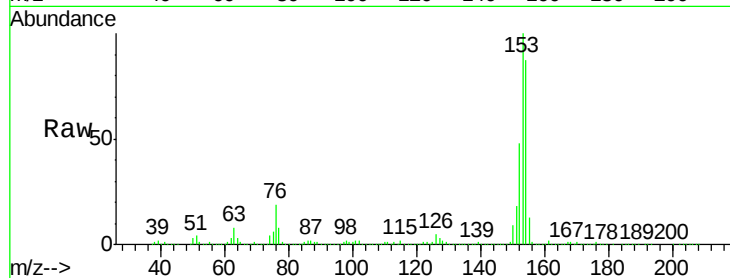
153 114.6 91.2 136.8

152 55.3 43.8 65.8

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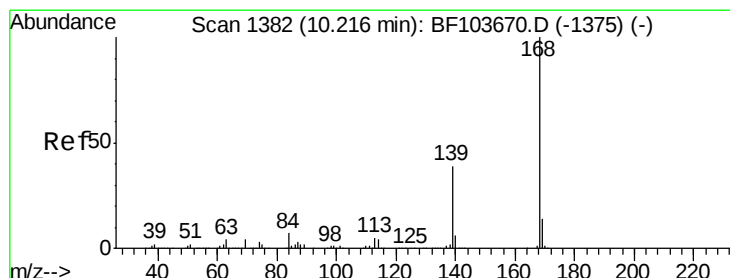
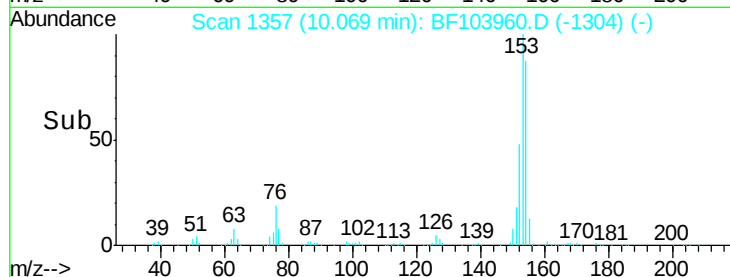
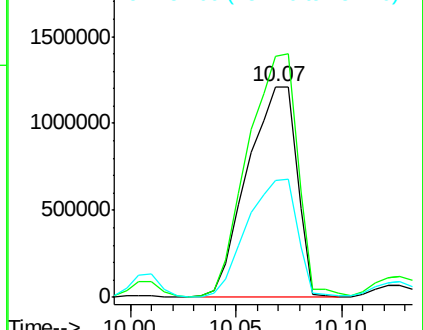
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 27.881 ng

RT: 10.23 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

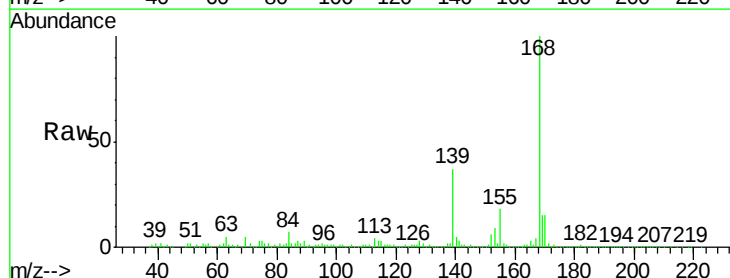
Tgt Ion:168 Resp: 558140

Ion Ratio Lower Upper

168 100

139 36.9 30.1 45.1

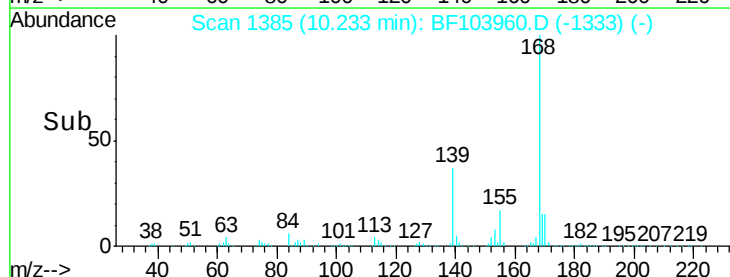
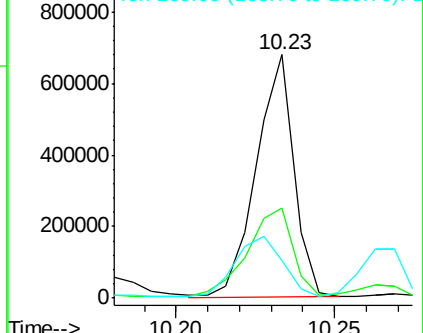
169 15.4 10.9 16.3

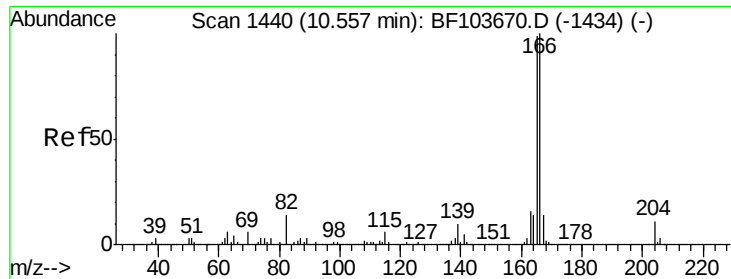


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





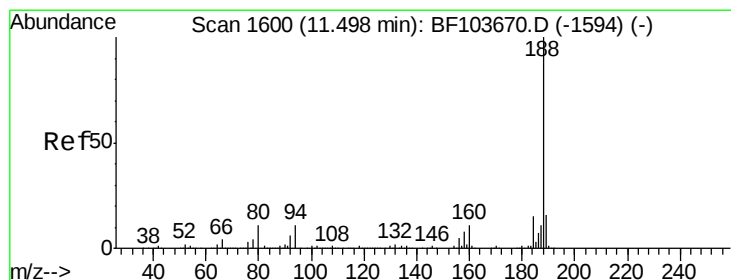
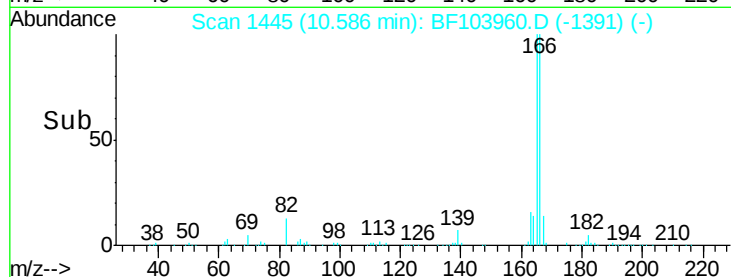
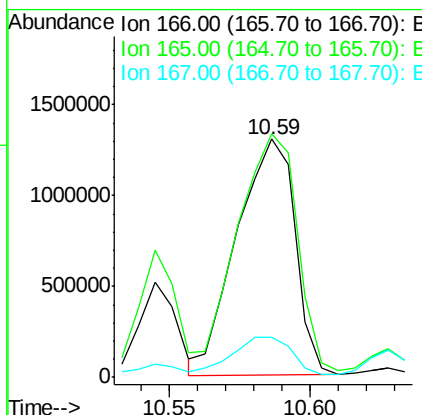
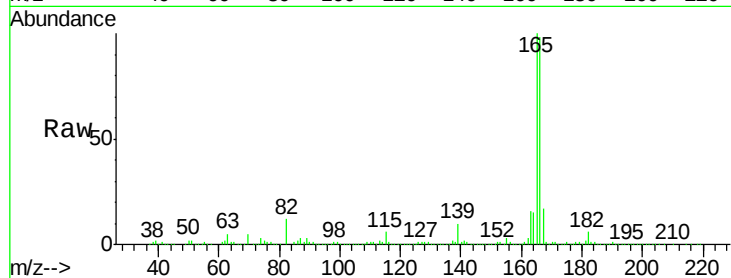
#57
 Fluorene
 Concen: 119.367 ng
 RT: 10.59 min Scan# 1445
 Delta R.T. 0.02 min
 Lab File: BF103960.D
 Acq: 27 Mar 2018 7:41

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB17_W_8

Tot Ion:166 Resp: 1854210
 Ion Ratio Lower Upper
 166 100
 165 102.1 79.8 119.8
 167 16.9 10.6 16.0#

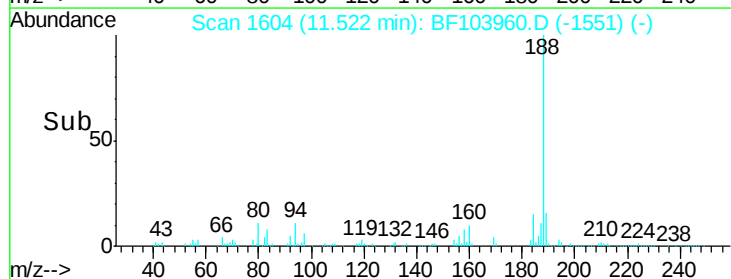
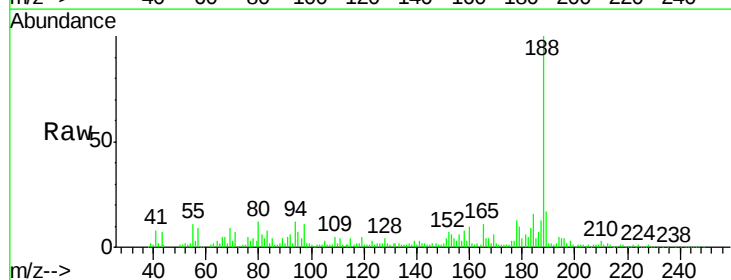
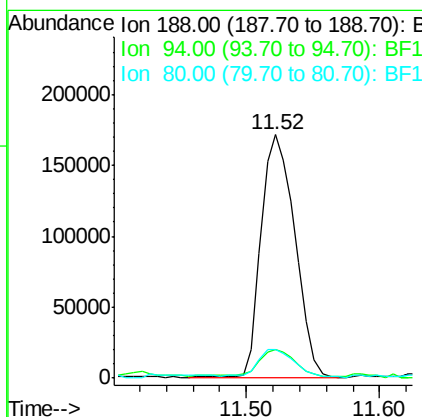
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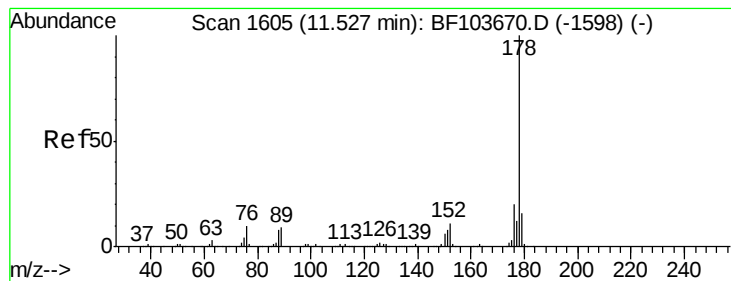
Sohil
 3/27/2018 2:16:17 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.52 min Scan# 1604
 Delta R.T. 0.01 min
 Lab File: BF103960.D
 Acq: 27 Mar 2018 7:41

Tgt Ion:188 Resp: 299359
 Ion Ratio Lower Upper
 188 100
 94 11.6 8.5 12.7
 80 11.7 9.2 13.8





#70

Phenanthrene

Concen: 303.980 ng

RT: 11.56 min Scan# 1611

Delta R.T. 0.02 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

ClientSampleId :

A2_SB17_W_8

Tot Ion:178 Resp: 4977854

Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.8	23.8
179	16.5	13.0	19.6

178 100

176 20.5 15.8 23.8

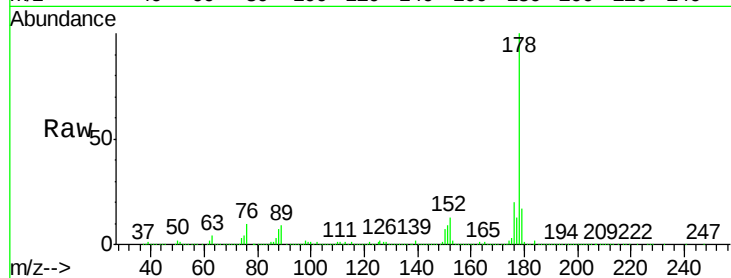
179 16.5 13.0 19.6

Manual Integrations

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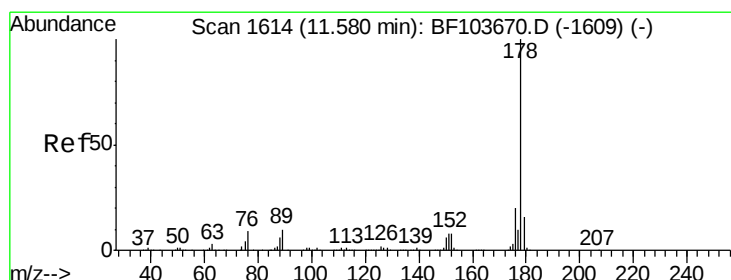
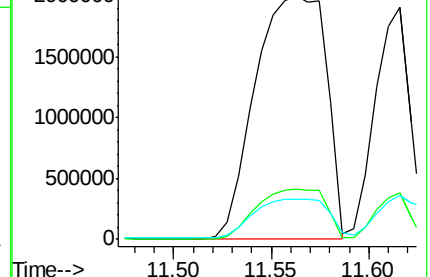
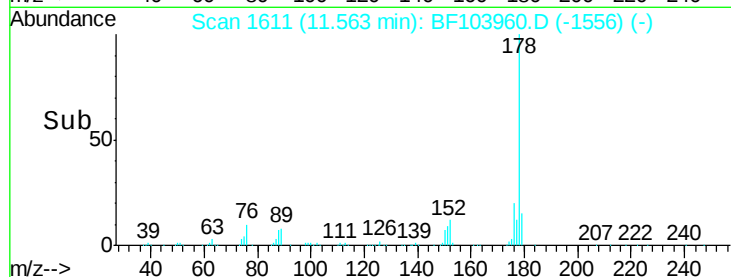
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 136.392 ng

RT: 11.62 min Scan# 1620

Delta R.T. 0.02 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

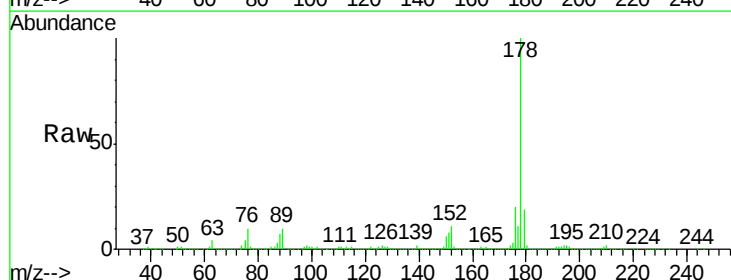
Tgt Ion:178 Resp: 2268478

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	18.7	12.6	19.0

178 100

176 19.8 15.4 23.2

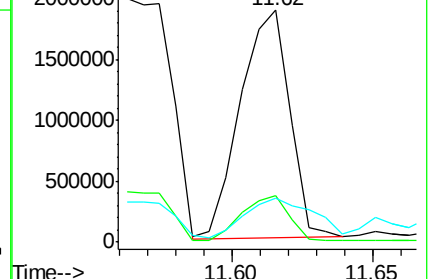
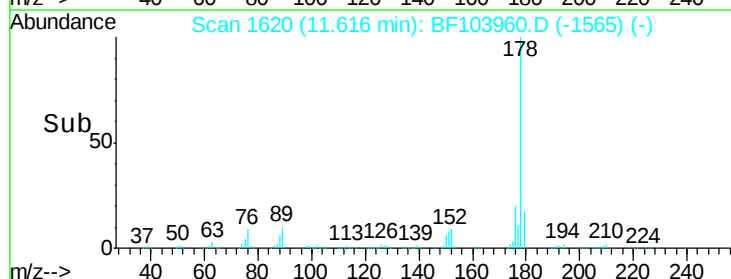
179 18.7 12.6 19.0

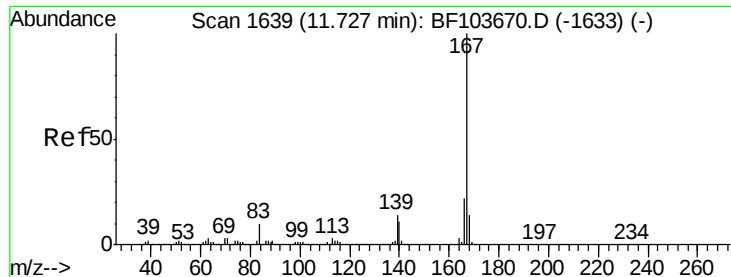


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 21.700 ng

RT: 11.75 min Scan# 1643

Delta R.T. 0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

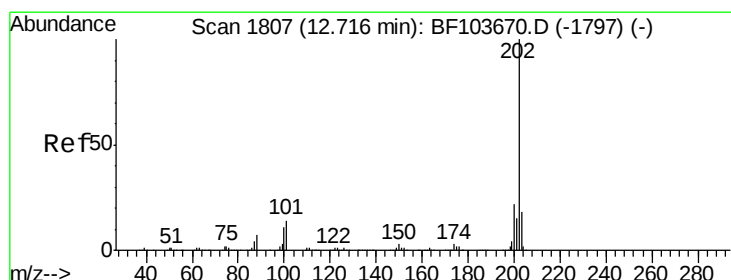
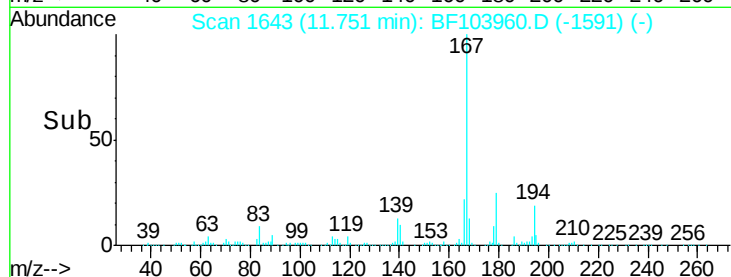
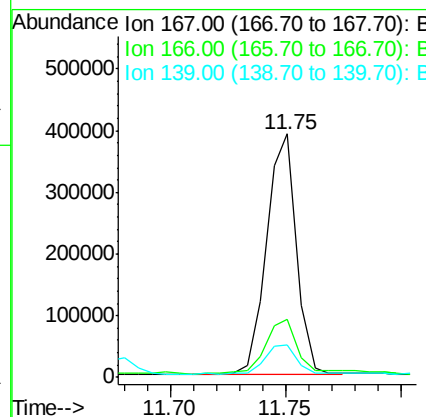
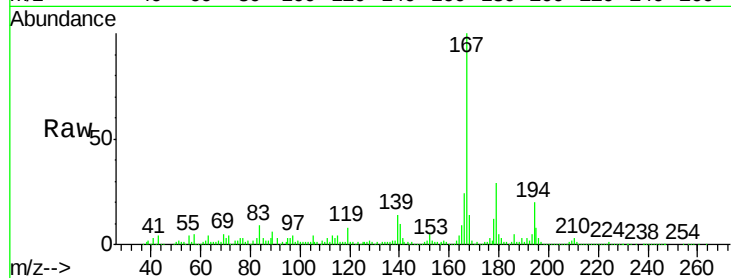
ClientSampleId :

A2_SB17_W_8

Tot Ion:	167	Resp:	350800
Ion Ratio	Lower	Upper	
167	100		
166	23.9	17.6	26.4
139	13.5	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 188.548 ng

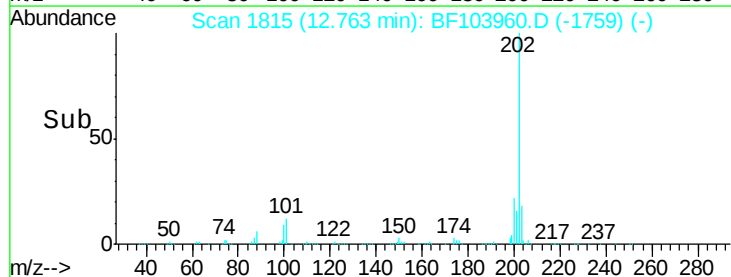
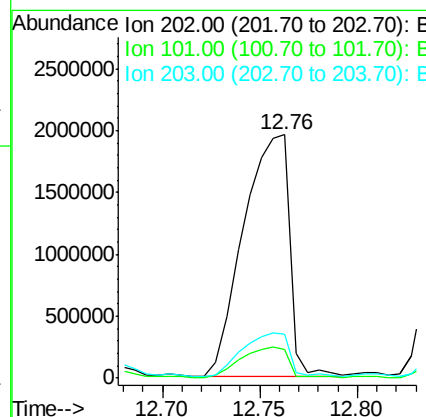
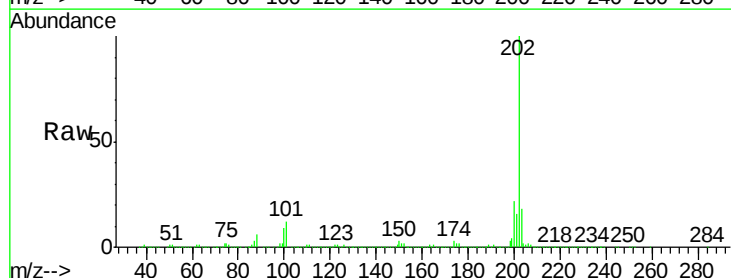
RT: 12.76 min Scan# 1815

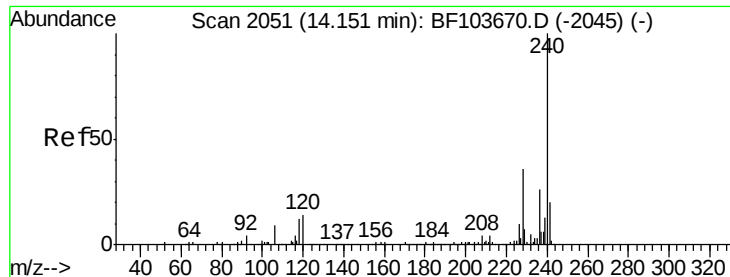
Delta R.T. 0.03 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Tgt Ion:	202	Resp:	3180932
Ion Ratio	Lower	Upper	
202	100		
101	11.9	0.0	34.1
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.18 min Scan# 2056

Delta R.T. 0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

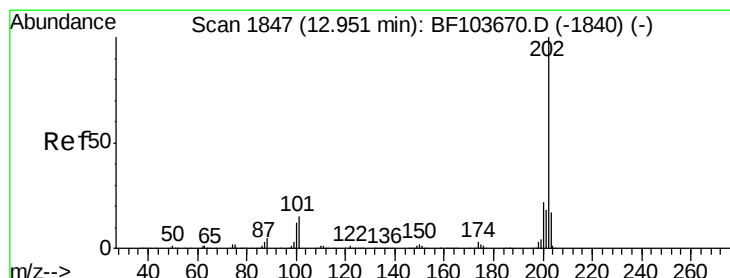
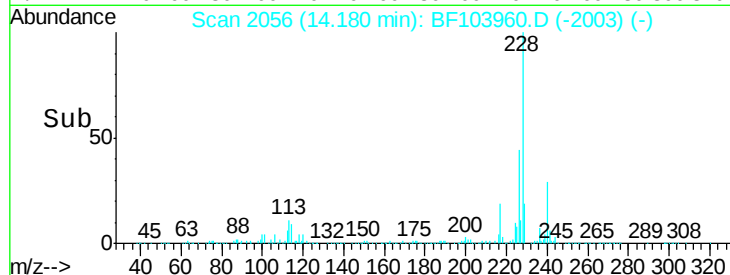
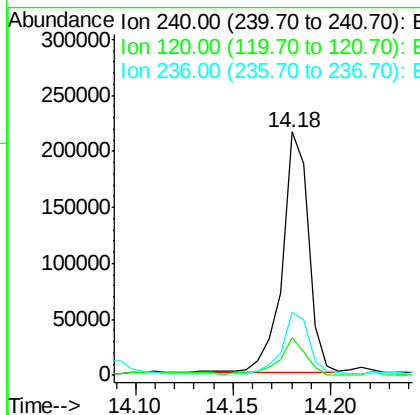
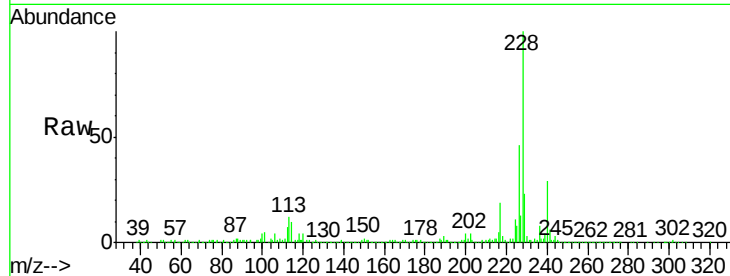
ClientSampleId :

A2_SB17_W_8

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.2	9.5	14.3#
236	26.1	20.7	31.1

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#77

Pyrene

Concen: 280.878 ng

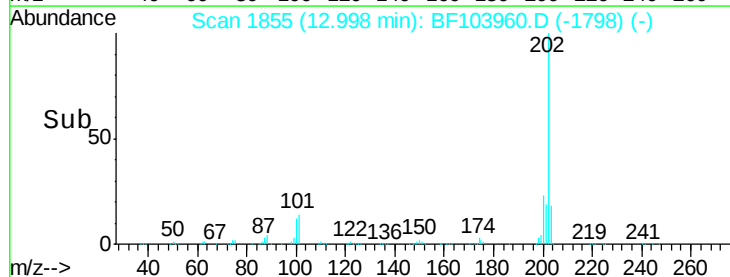
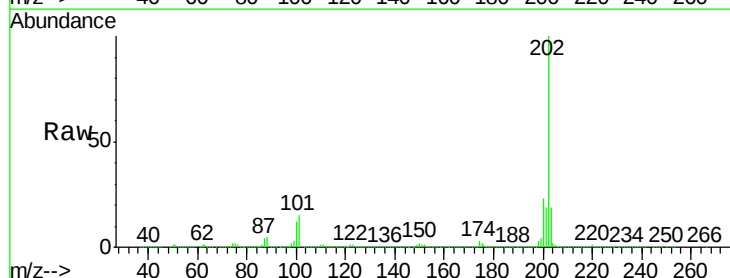
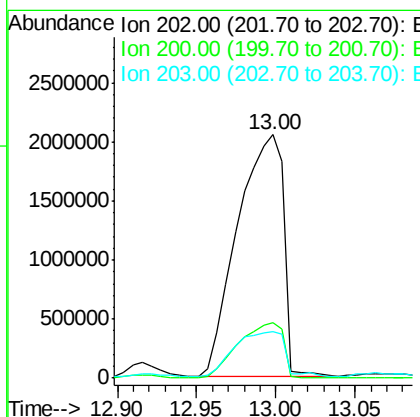
RT: 13.00 min Scan# 1855

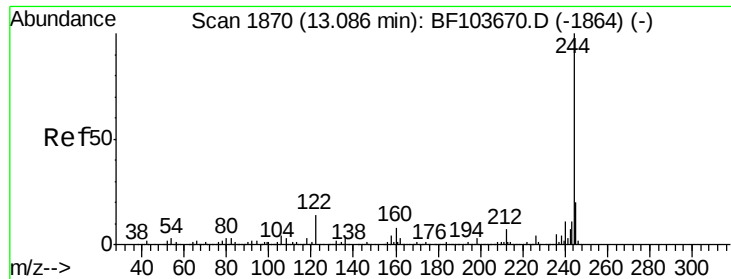
Delta R.T. 0.04 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.7	17.4	26.2
203	19.2	14.3	21.5





#78

Terphenyl-d14

Concen: 8.558 ng

RT: 13.10 min Scan# 1872

Delta R.T. -0.00 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

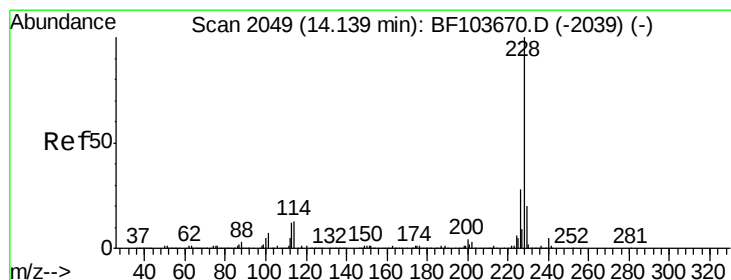
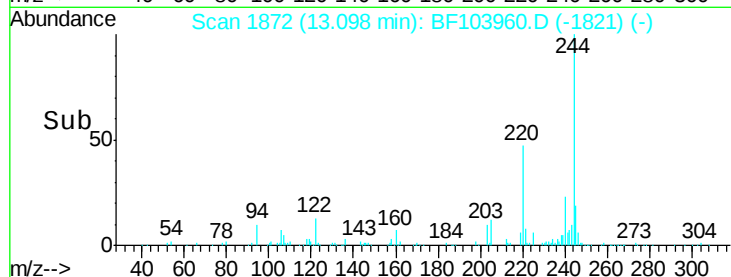
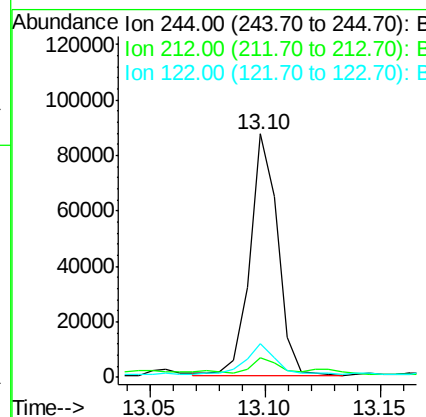
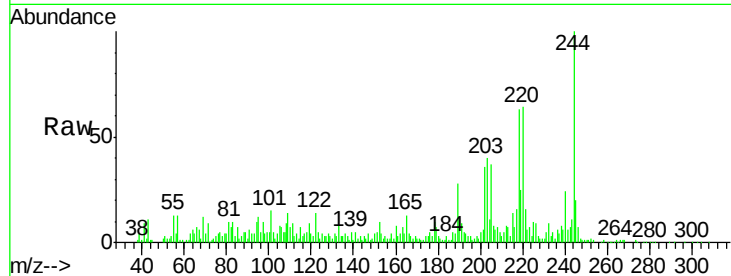
ClientSampleId :

A2_SB17_W_8

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.2	5.4	8.0#
122	14.0	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 150.606 ng m

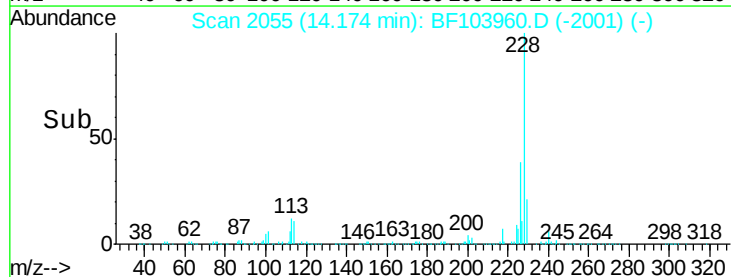
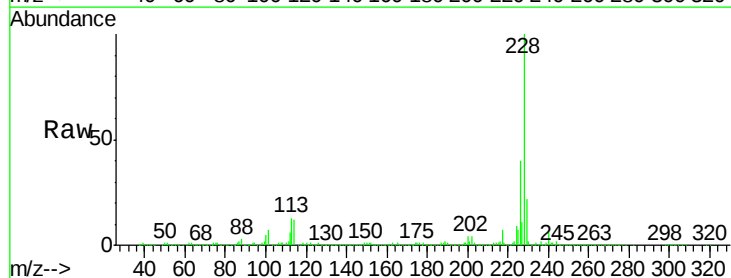
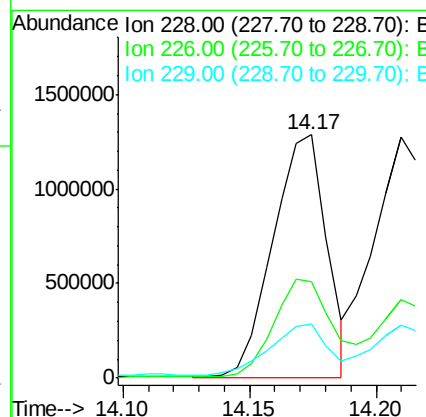
RT: 14.17 min Scan# 2055

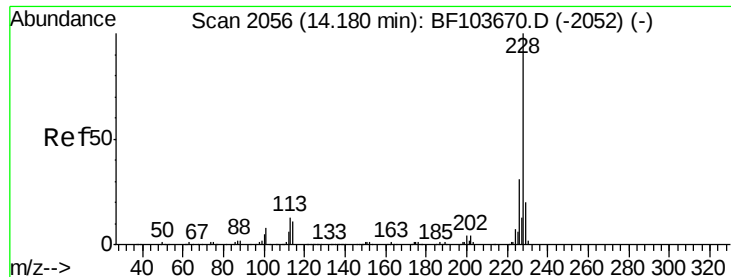
Delta R.T. 0.02 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.7	22.6	33.8#
229	22.1	15.8	23.6





#82

Chrysene

Concen: 134.576 ng

RT: 14.21 min Scan# 2061

Delta R.T. 0.01 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

ClientSampleId :

A2_SB17_W_8

Tot Ion:228 Resp: 1629682

Ion	Ratio	Lower	Upper
228	100		
226	32.7	25.0	37.6
229	21.8	16.2	24.4

228 100

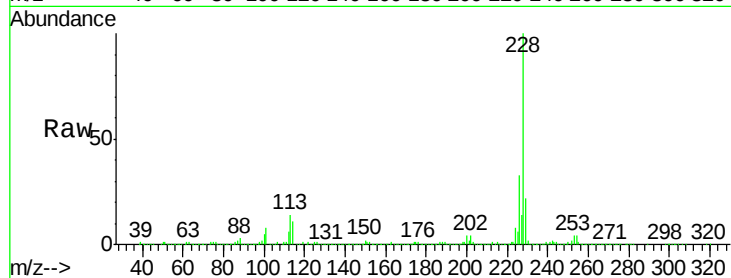
226 32.7 25.0 37.6

229 21.8 16.2 24.4

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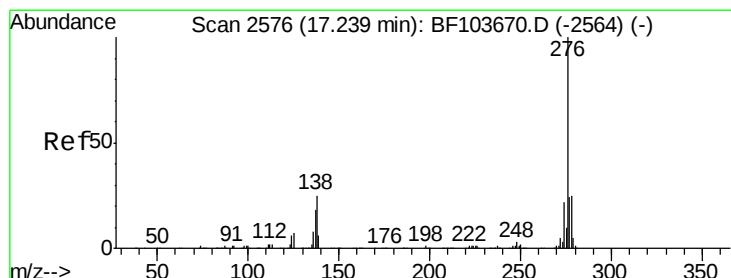
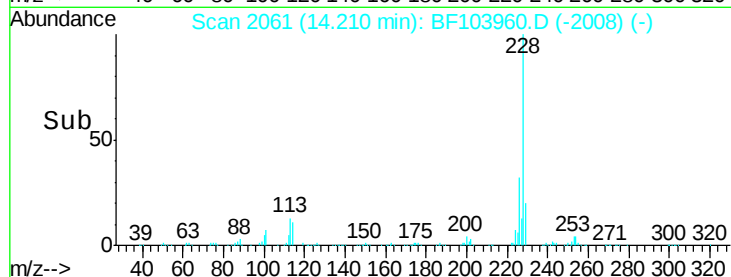
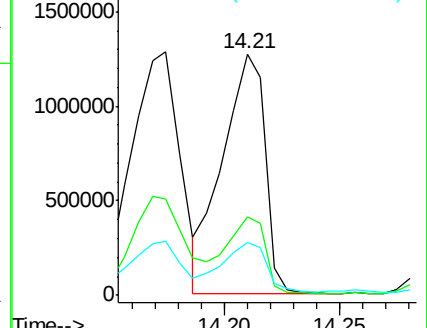
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 73.066 ng

RT: 17.33 min Scan# 2591

Delta R.T. 0.03 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

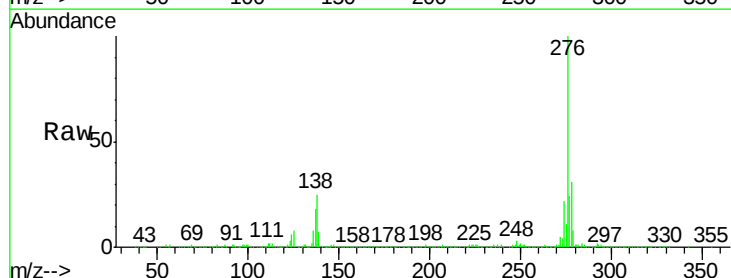
Tgt Ion:276 Resp: 772699

Ion	Ratio	Lower	Upper
276	100		
138	24.0	25.0	37.6#
277	24.3	20.1	30.1

276 100

138 24.0 25.0 37.6#

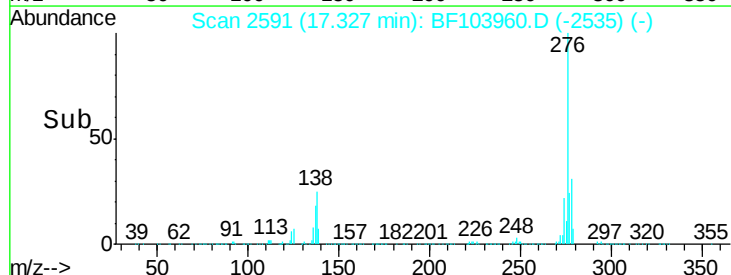
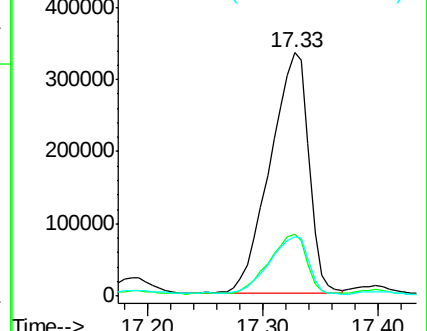
277 24.3 20.1 30.1

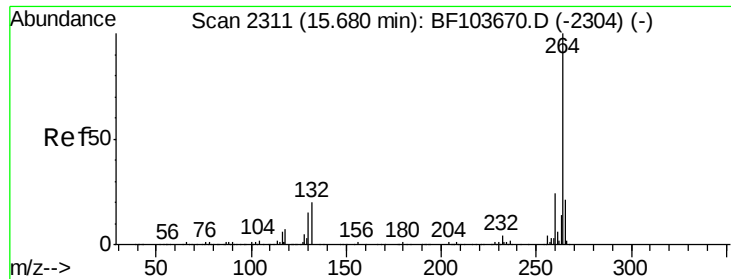


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





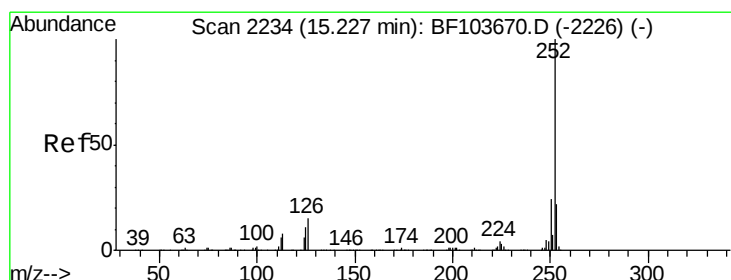
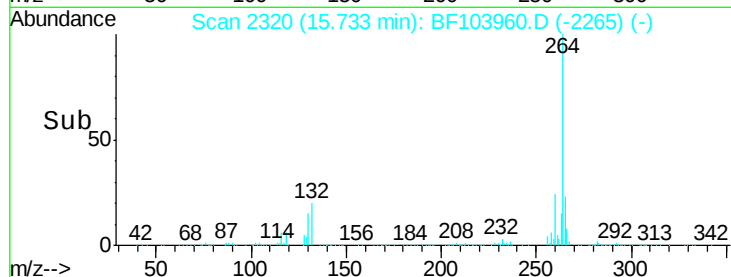
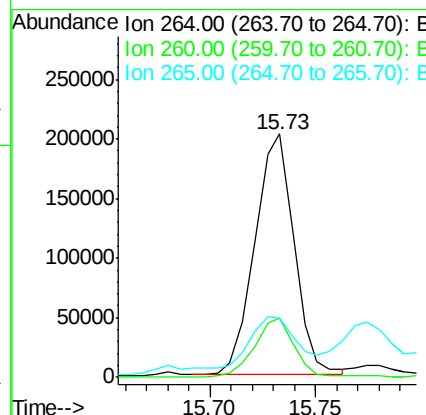
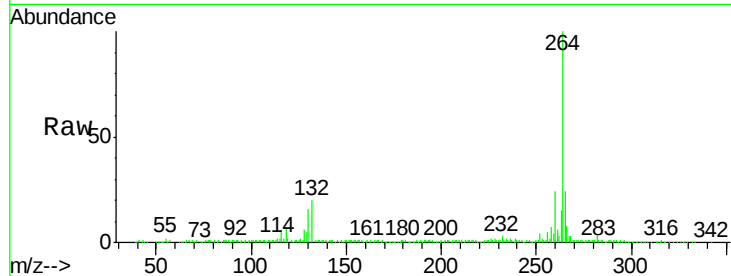
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.73 min Scan# 2320
Delta R.T. 0.02 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	24.3	17.5	26.3

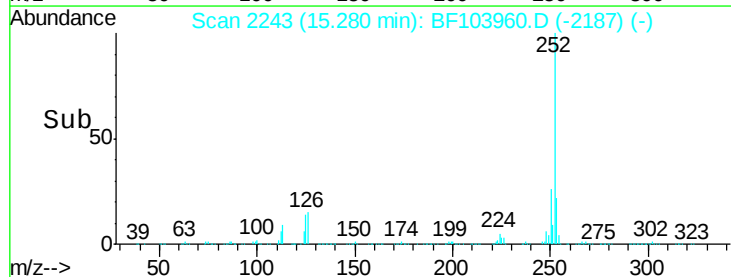
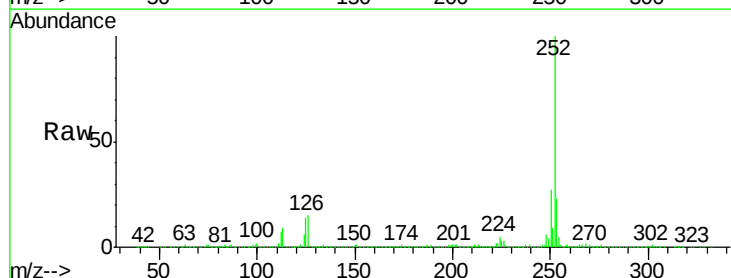
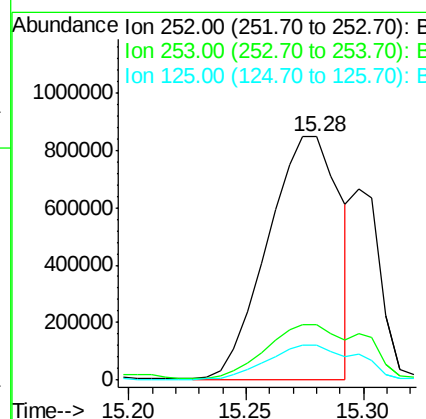
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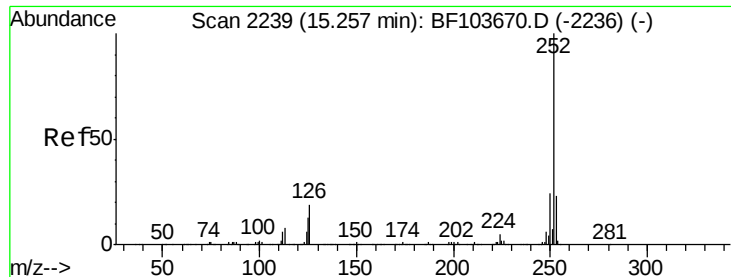
Sohil
3/27/2018 2:16:17 PM



#87
Benzo(b)fluoranthene
Concen: 109.595 ng m
RT: 15.28 min Scan# 2243
Delta R.T. 0.03 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	14.4	9.0	13.6





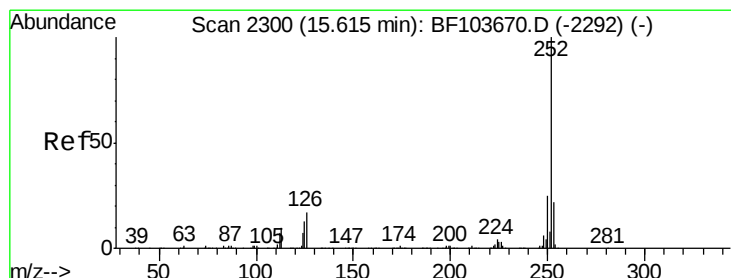
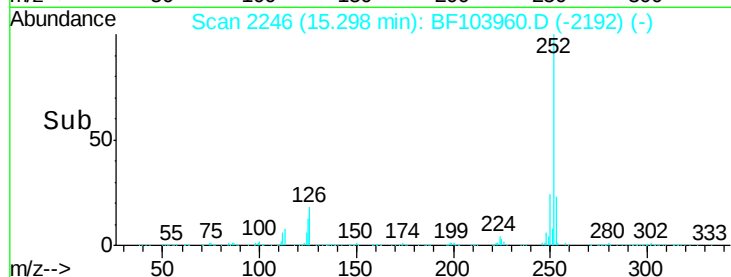
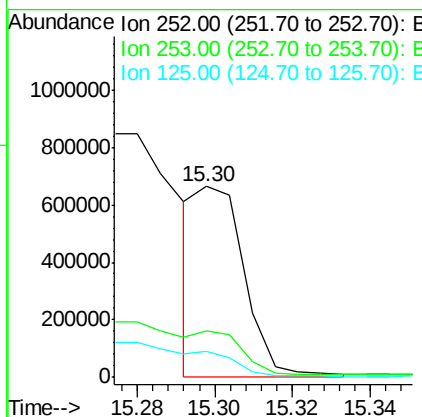
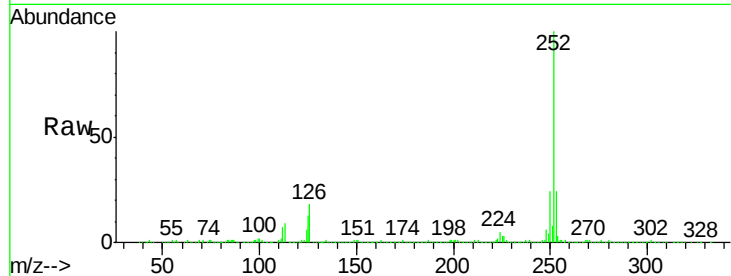
#88
Benzo(k)fluoranthene
Concen: 35.415 ng m
RT: 15.30 min Scan# 2246
Delta R.T. 0.02 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Instrument :
BNA_F
ClientSampleId :
A2_SB17_W_8

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	13.5	10.2	15.2

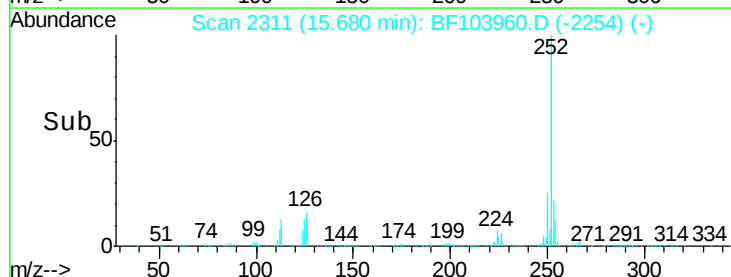
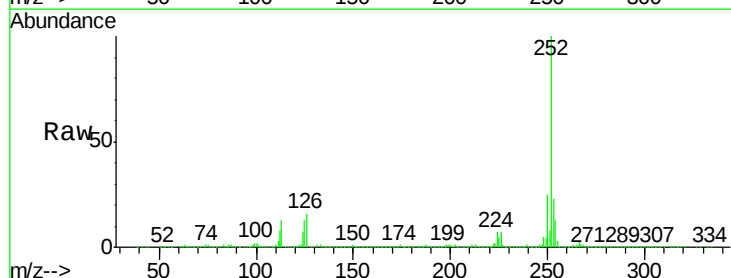
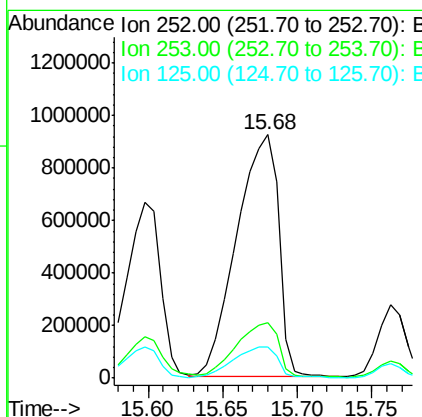
Manual Integrations
APPROVED

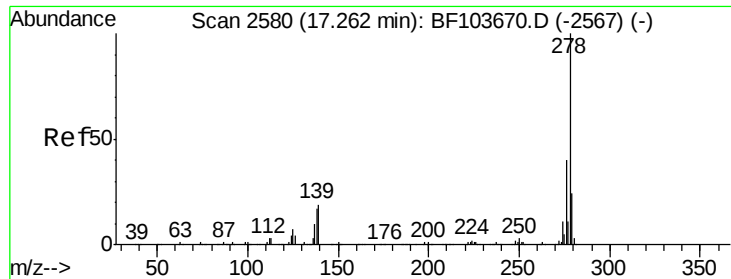
Sohil
3/27/2018 2:16:17 PM



#89
Benzo(a)pyrene
Concen: 119.162 ng
RT: 15.68 min Scan# 2311
Delta R.T. 0.04 min
Lab File: BF103960.D
Acq: 27 Mar 2018 7:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	13.0	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 15.934 ng

RT: 17.33 min Scan# 2592

Delta R.T. 0.02 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Instrument :

BNA_F

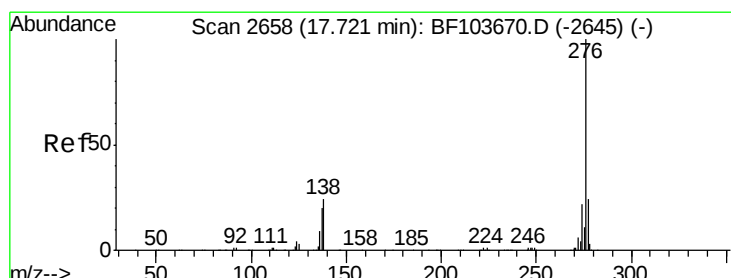
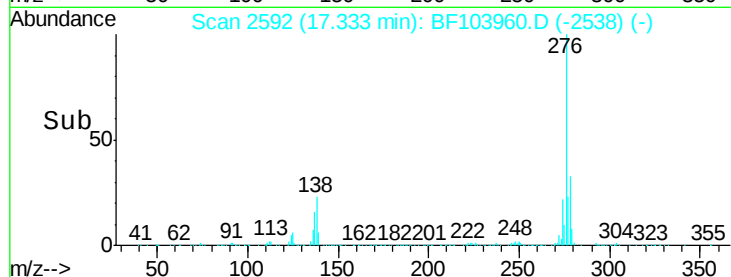
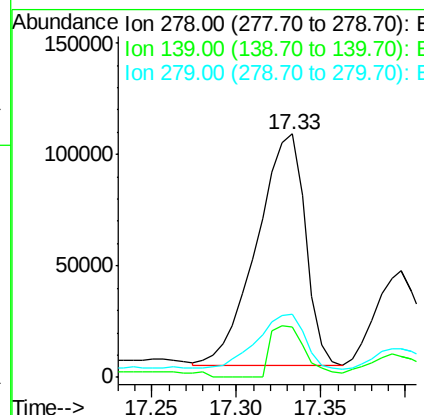
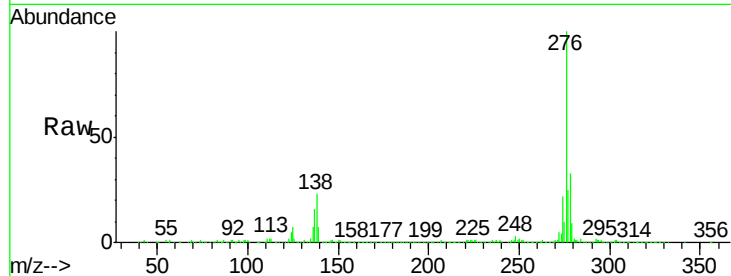
ClientSampleId :

A2_SB17_W_8

Tot Ion:	278	Resp:	207742
Ion Ratio	Lower	Upper	
278	100		
139	20.5	15.9	23.9
279	26.0	19.0	28.4

Manual Integrations
APPROVED

Sohil
3/27/2018 2:16:17 PM



#91

Benzo(g,h,i)perylene

Concen: 58.770 ng

RT: 17.82 min Scan# 2674

Delta R.T. 0.04 min

Lab File: BF103960.D

Acq: 27 Mar 2018 7:41

Tgt Ion:	276	Resp:	745402
Ion Ratio	Lower	Upper	
276	100		
277	24.4	17.9	26.9
138	24.6	21.8	32.8

