

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104194.D
 Acq On : 3 Apr 2018 21:57
 Operator : JU/SJ
 Sample : J2182-10
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 6-WM-DIP-5-EW@3

Manual Integrations
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 4/4/2018 4:09:56 PM

Quant Time: Apr 04 10:31:16 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 03 15:22:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	107068	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	452640	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	219650	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	403293	20.00	ng	0.00
75) Chrysene-d12	14.15	240	274549	20.00	ng	0.00
86) Perylene-d12	15.69	264	231829	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	866022	128.99	ng	0.00
7) Phenol-d6	6.60	99	1080390	130.80	ng	0.00
23) Nitrobenzene-d5	7.53	82	697456	94.23	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	308432	126.11	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	1233247	88.54	ng	0.00
78) Terphenyl-d14	13.08	244	1171580	98.53	ng	0.00

Target Compounds				Qvalue		
10) Phenol	6.61	94	26175	2.860	ng	# 52
31) Naphthalene	8.26	128	53717	2.429	ng	97
49) Dimethylphthalate	9.70	163	149087	8.597	ng	99
51) Acenaphthene	10.03	154	53014	4.068	ng	99
54) Dibenzofuran	10.20	168	65014	3.416	ng	98
57) Fluorene	10.55	166	64336	4.098	ng	99
70) Phenanthrene	11.52	178	769498	35.242	ng	99
71) Anthracene	11.57	178	229271	10.053	ng	98
72) Carbazole	11.73	167	94548	4.343	ng	100
73) Di-n-butylphthalate	12.03	149	82022	3.163	ng	99
74) Fluoranthene	12.72	202	793100	34.172	ng	99
77) Pyrene	12.95	202	632533	32.049	ng	99
80) Benzo(a)anthracene	14.14	228	265249	15.440	ng	97
82) Chrysene	14.17	228	223292	13.271	ng	97
85) Indeno(1,2,3-cd)pyrene	17.29	276	99019	5.679	ng	91
87) Benzo(b)fluoranthene	15.23	252	199704m	14.154	ng	
88) Benzo(k)fluoranthene	15.25	252	102468m	7.710	ng	
89) Benzo(a)pyrene	15.63	252	160050	12.241	ng	95
90) Dibenzo(a,h)anthracene	17.29	278	28968m	2.396	ng	
91) Benzo(a,h,i)perylene	17.77	276	96984	8.010	ng	96

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

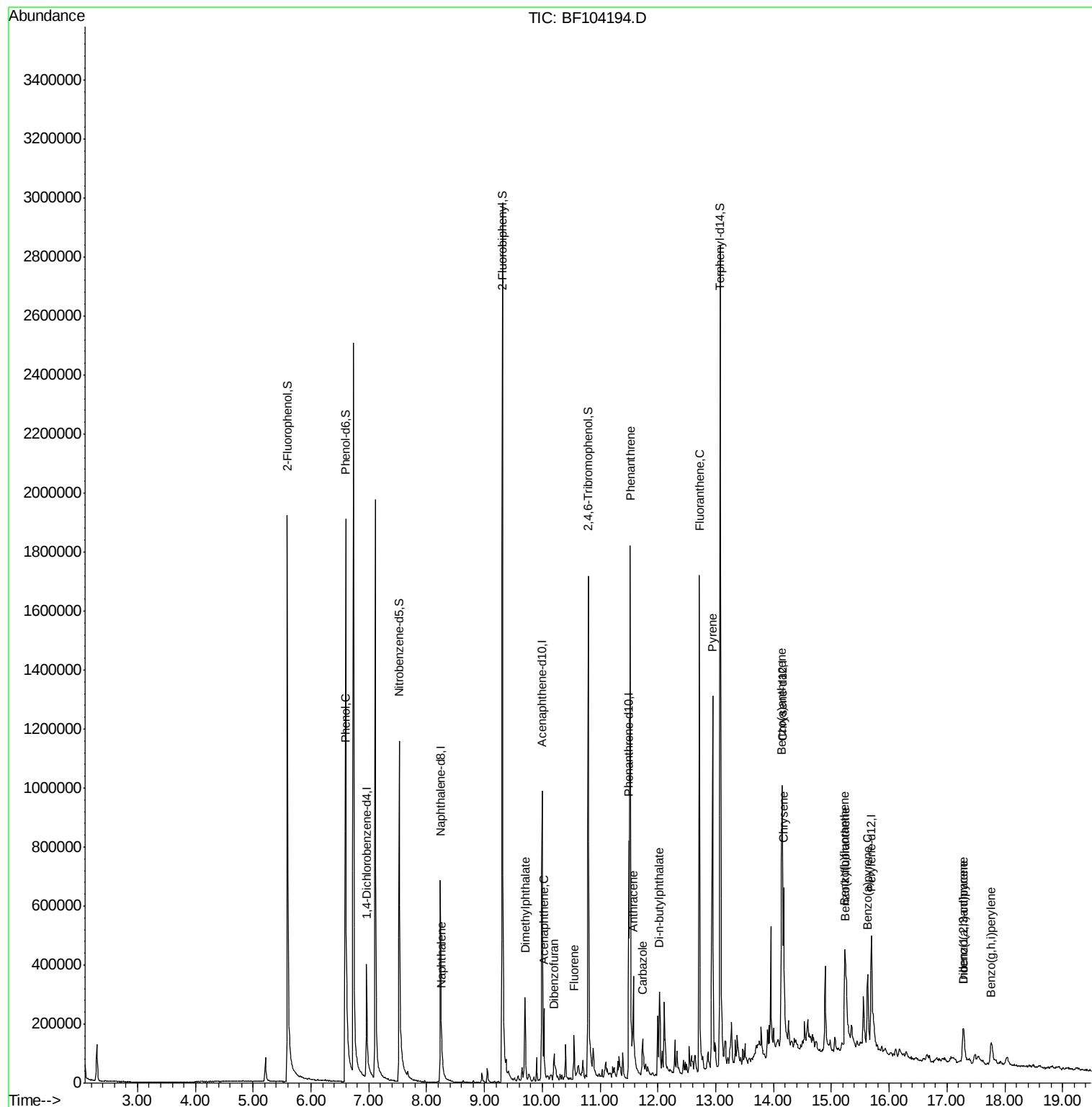
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
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#1

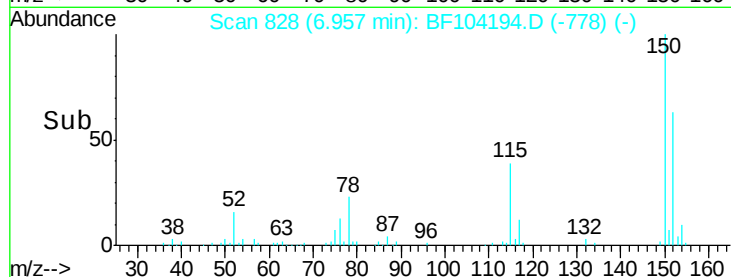
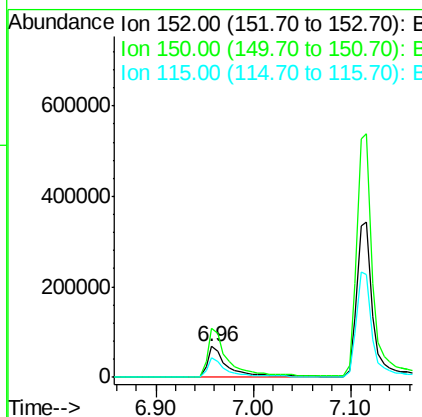
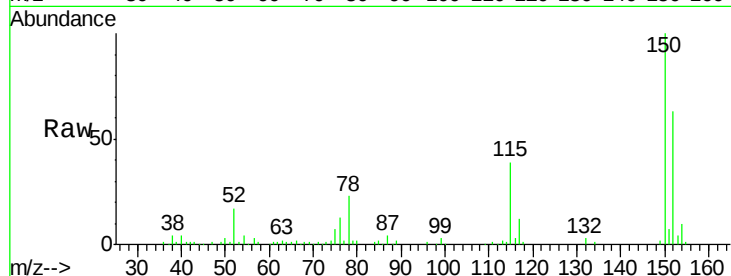
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 828
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	124.6	186.8
115	62.6	50.1	75.1

Manual Integrations
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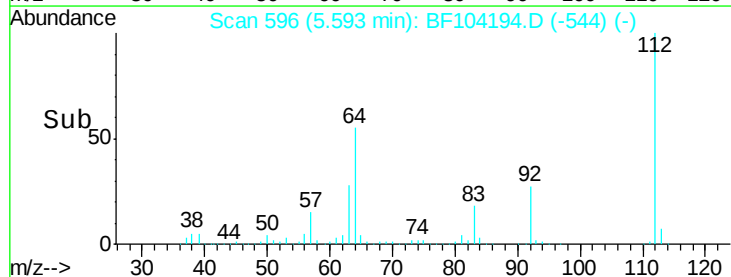
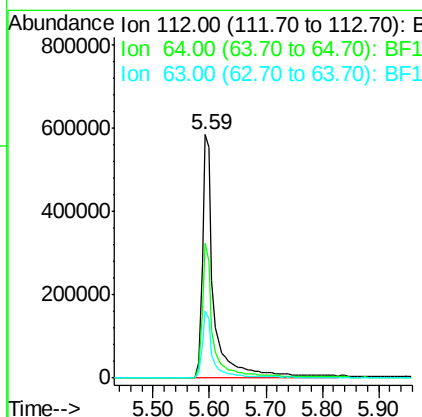
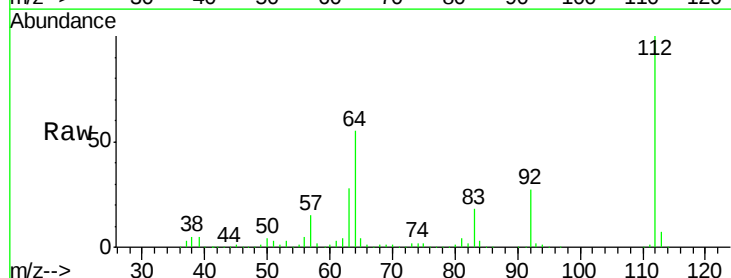
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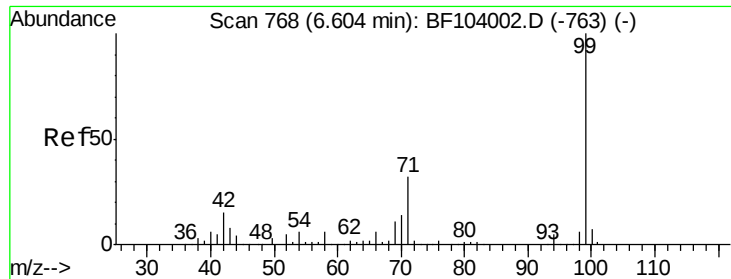


#5

2-Fluorophenol
Concen: 128.992 ng
RT: 5.59 min Scan# 596
Delta R.T. 0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	47.9	71.9
63	27.7	23.7	35.5





#7

Phenol-d6

Concen: 130.798 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.00 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

Instrument :

BNA_F

ClientSampleId :

6-WM-DIP-5-EW@3

Tot Ion: 99 Resp: 1080390

Ion Ratio Lower Upper

99 100

42 14.6 14.5 21.7

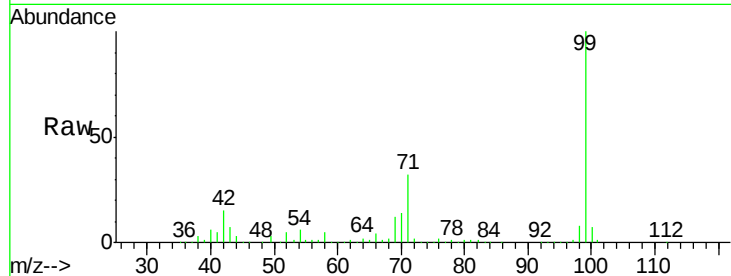
71 32.1 25.4 38.0

Manual Integrations

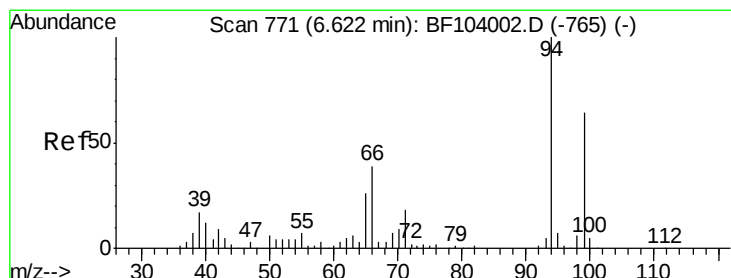
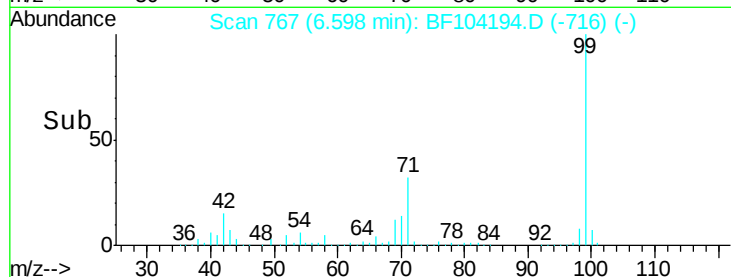
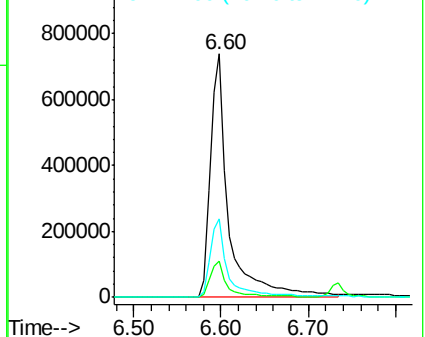
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.860 ng

RT: 6.61 min Scan# 769

Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

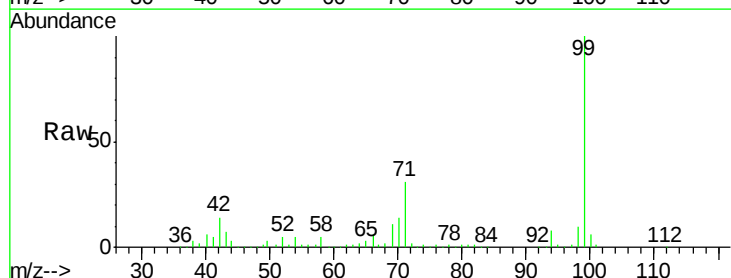
Tgt Ion: 94 Resp: 26175

Ion Ratio Lower Upper

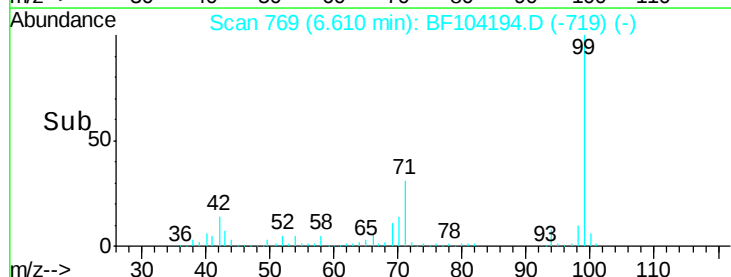
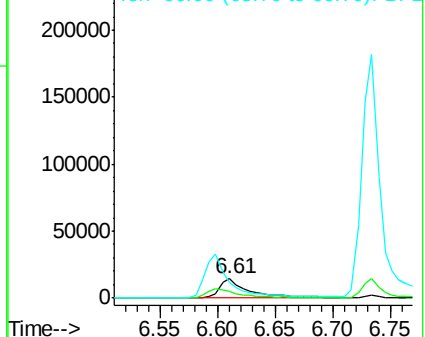
94 100

65 35.3 7.9 47.9

66 79.7 16.2 56.2#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

Instrument :

BNA_F

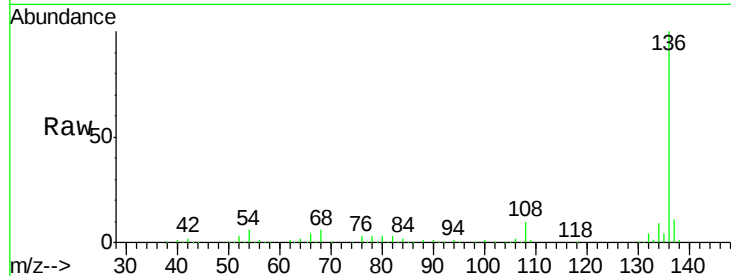
ClientSampleId :

6-WM-DIP-5-EW@3

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		452640		
137	10.8		8.9	13.3	
54	6.1		6.6	9.8	
68	5.7		5.0	7.4	

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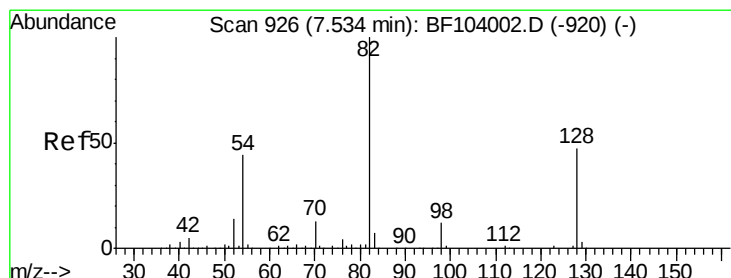
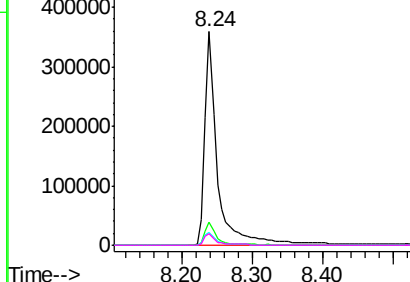
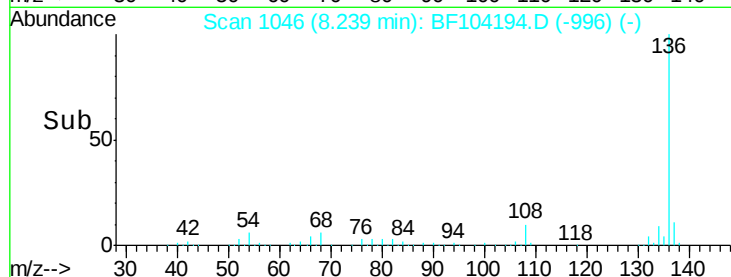


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 94.232 ng

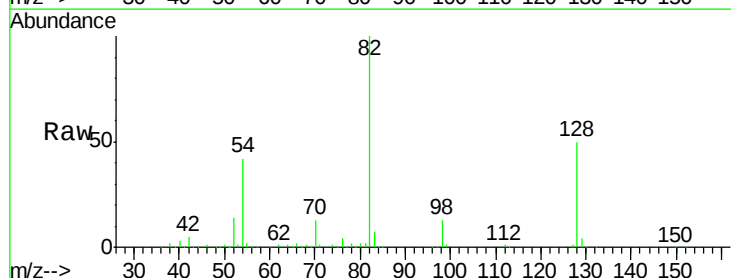
RT: 7.53 min Scan# 925

Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

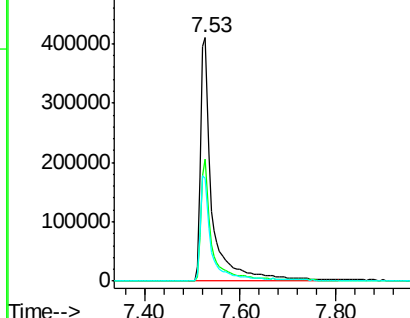
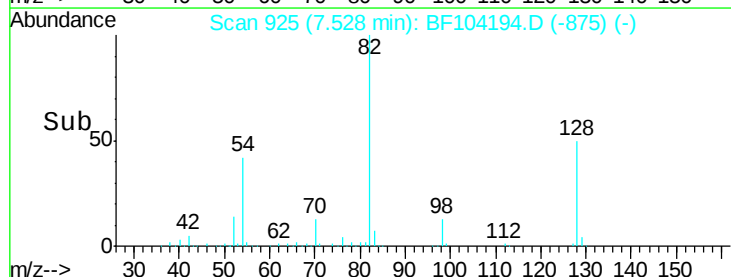
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		697456		
128	50.3		36.1	54.1	
54	42.1		41.4	62.2	

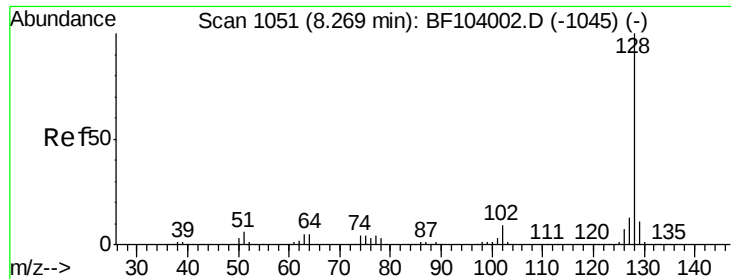


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





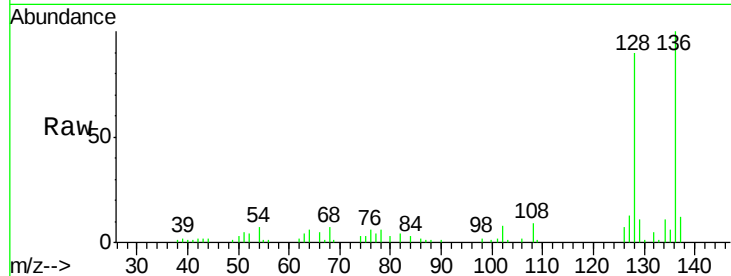
#31
Naphthalene
Concen: 2.429 ng
RT: 8.26 min Scan# 1050
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

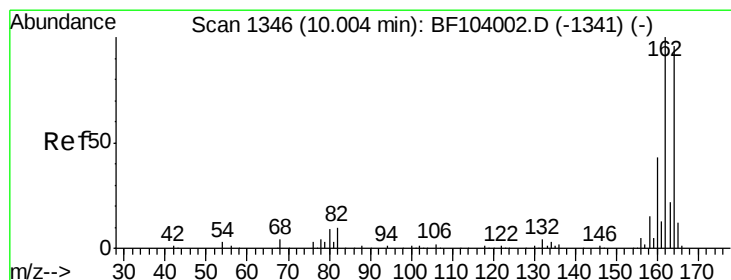
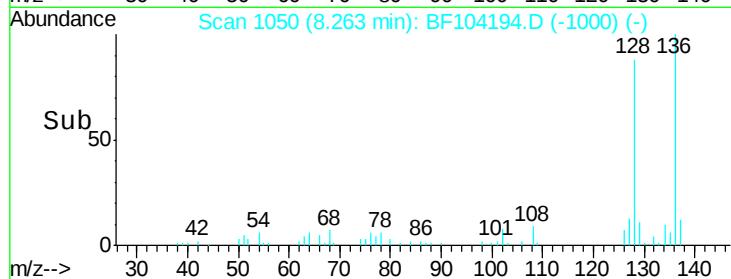
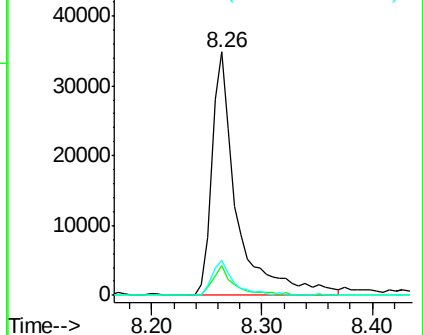
Tot Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.8	13.2
127	14.5	10.9	16.3

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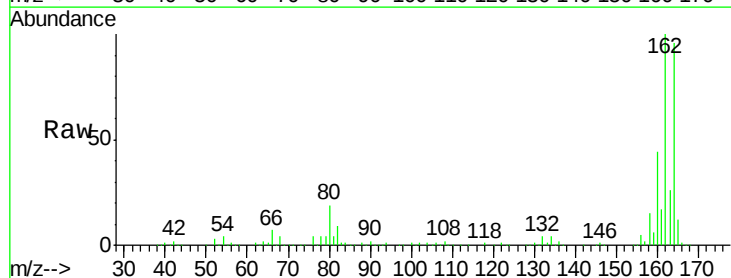


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

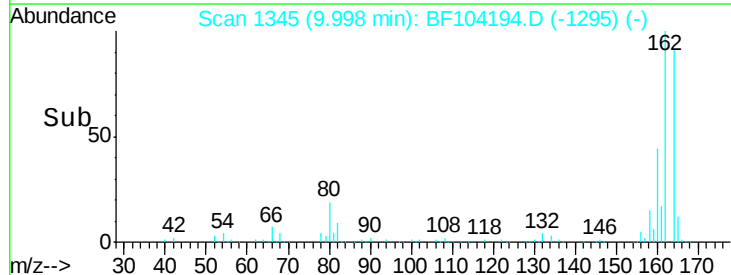
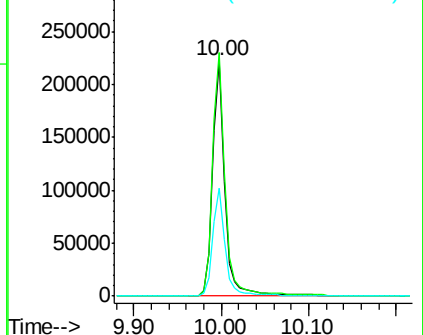


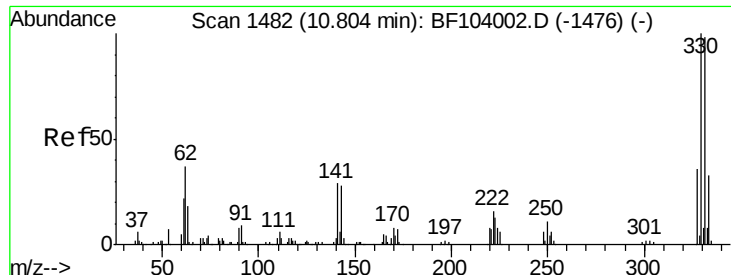
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1345
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.7	86.1	129.1
160	45.7	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: 126.106 ng

RT: 10.80 min Scan# 1481

Delta R.T. 0.00 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

Instrument :

BNA_F

ClientSampleId :

6-WM-DIP-5-EW@3

Tot Ion:330 Resp: 308432

Ion Ratio Lower Upper

330 100

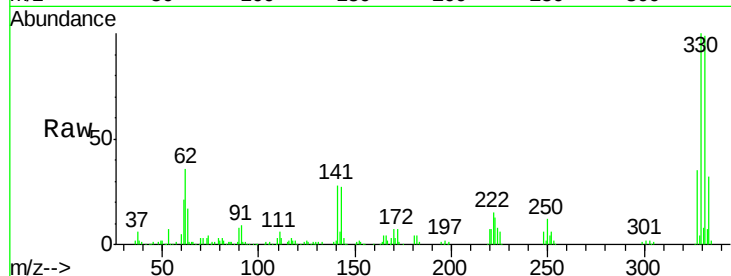
332 97.3 77.0 115.6

141 29.8 29.9 44.9#

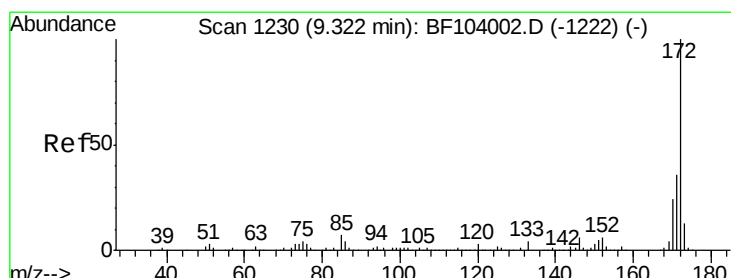
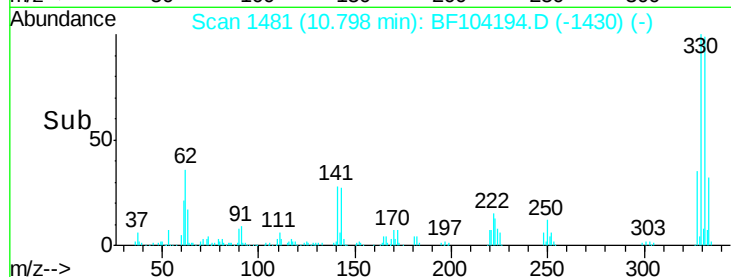
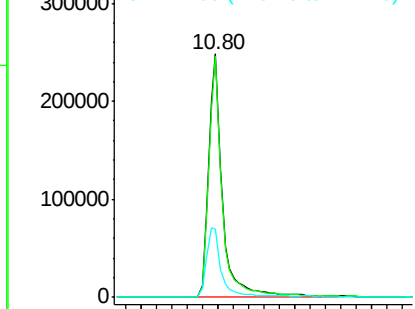
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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 88.538 ng

RT: 9.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

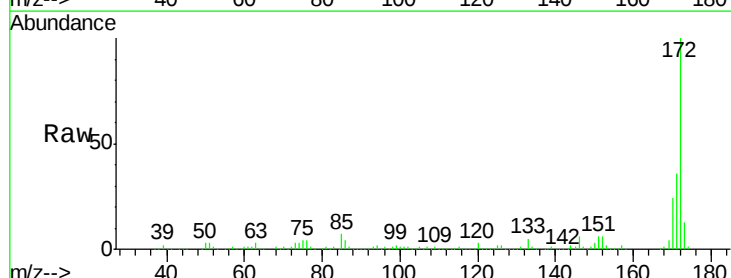
Tgt Ion:172 Resp: 1233247

Ion Ratio Lower Upper

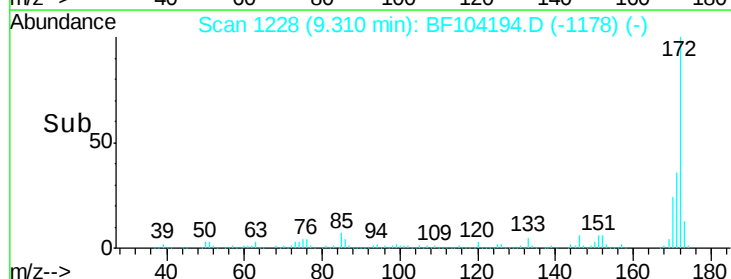
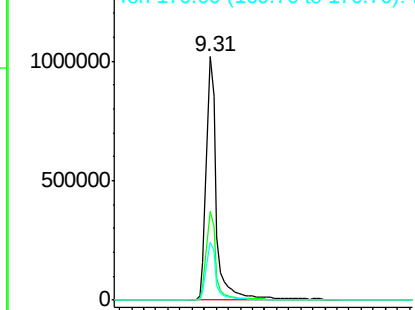
172 100

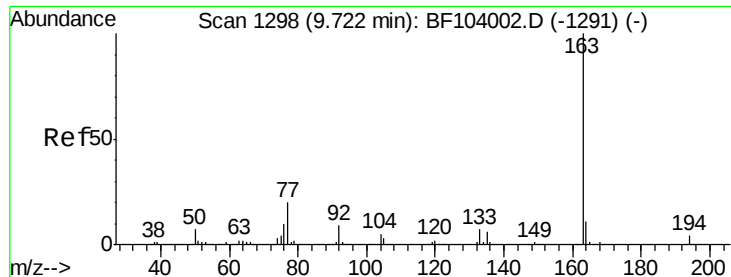
171 36.3 29.7 44.5

170 24.0 19.6 29.4



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





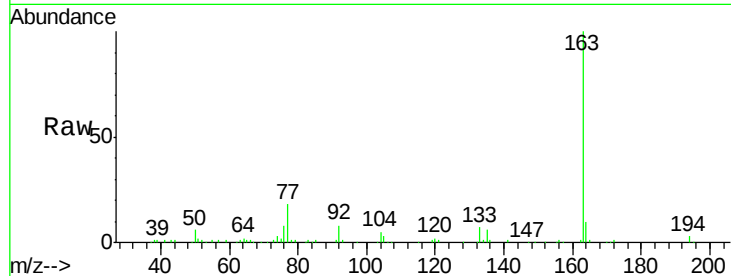
#49
 Dimethylphthalate
 Concen: 8.597 ng
 RT: 9.70 min Scan# 1295
 Delta R.T. -0.01 min
 Lab File: BF104194.D
 Acq: 3 Apr 2018 21:57

Instrument :
 BNA_F
 ClientSampleId :
 6-WM-DIP-5-EW@3

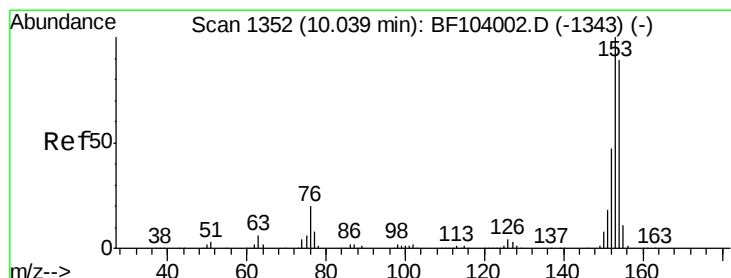
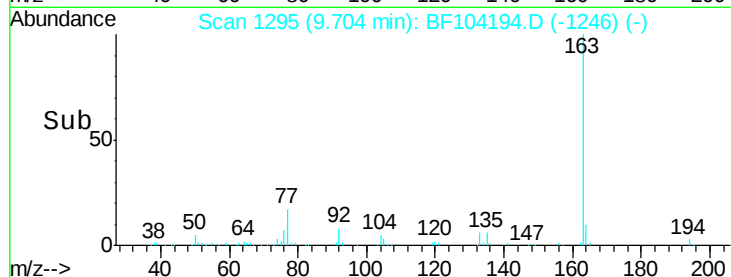
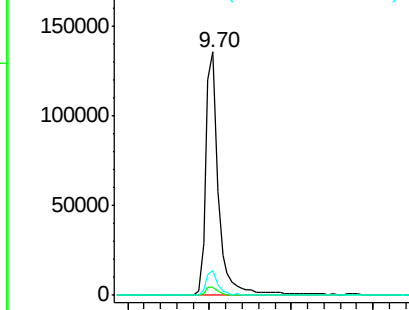
Tot Ion:	163	Resp:	149087
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.7	4.1
164	9.9	8.2	12.2

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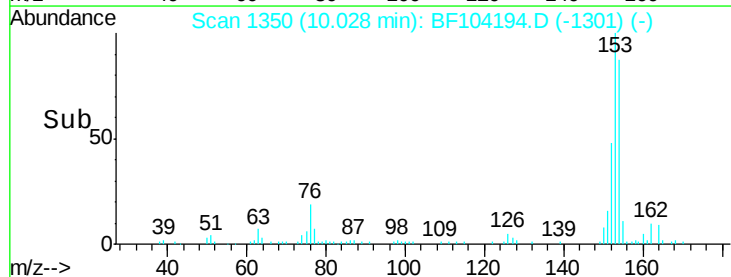
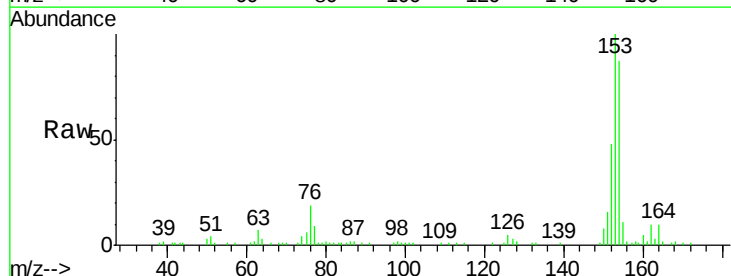
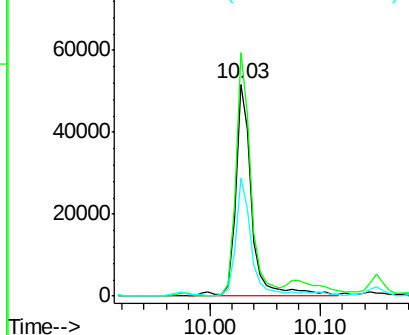
Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

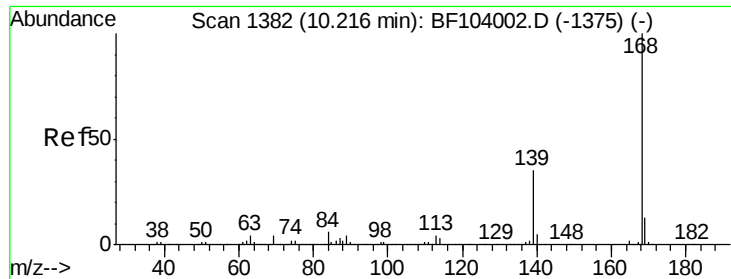


#51
 Acenaphthene
 Concen: 4.068 ng
 RT: 10.03 min Scan# 1350
 Delta R.T. -0.01 min
 Lab File: BF104194.D
 Acq: 3 Apr 2018 21:57

Tgt Ion:	154	Resp:	53014
Ion Ratio	Lower	Upper	
154	100		
153	114.8	91.2	136.8
152	55.5	43.8	65.8

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





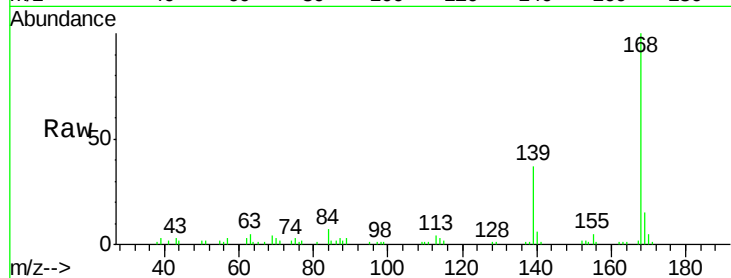
#54
Dibenzofuran
Concen: 3.416 ng
RT: 10.20 min Scan# 1380
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.8	30.1	45.1
169	14.7	10.9	16.3

Manual Integrations
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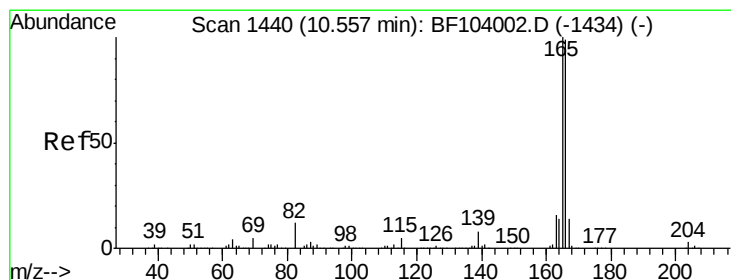
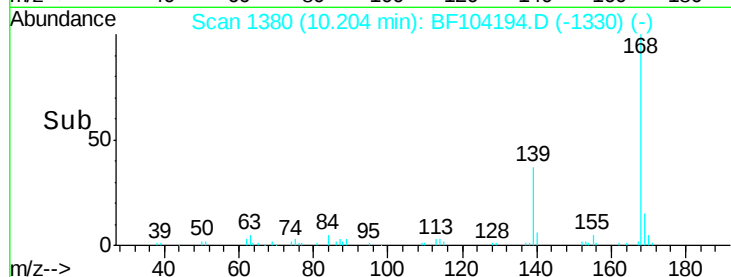
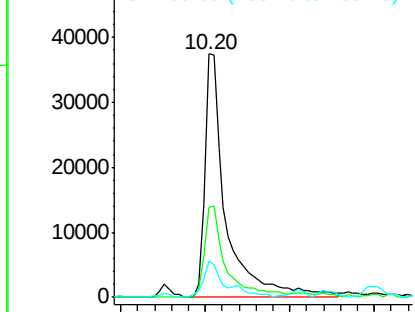


Abundance

Ion 168.00 (167.70 to 168.70): E

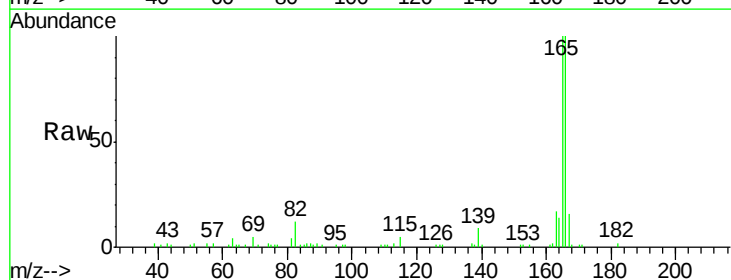
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57
Fluorene
Concen: 4.098 ng
RT: 10.55 min Scan# 1439
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	15.7	10.6	16.0

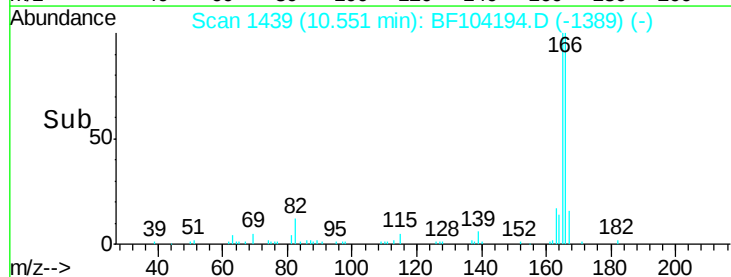
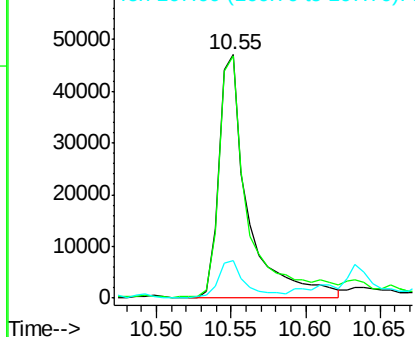


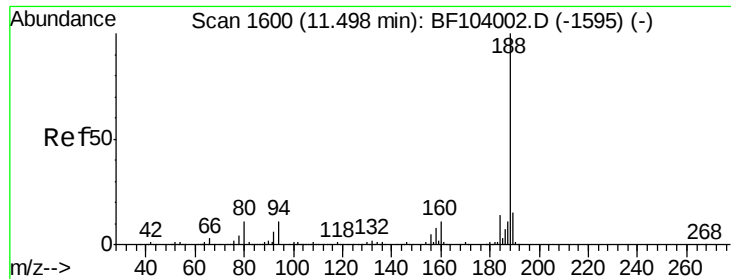
Abundance

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





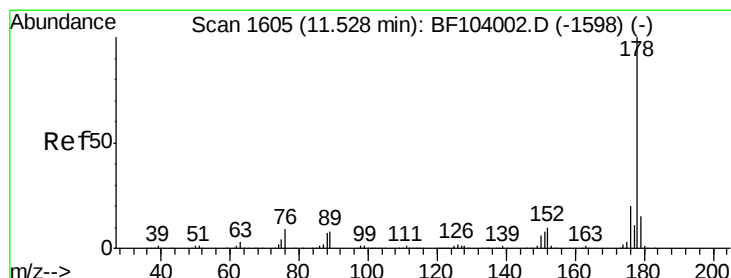
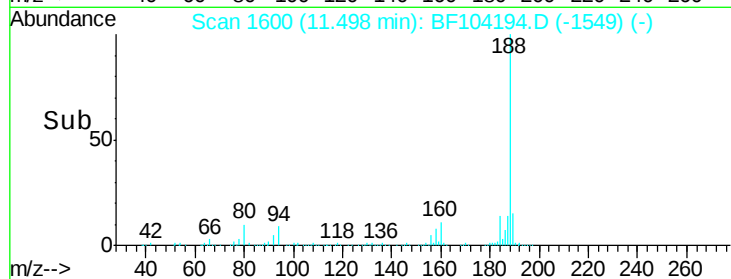
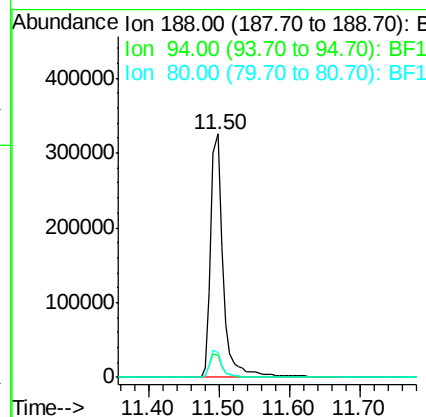
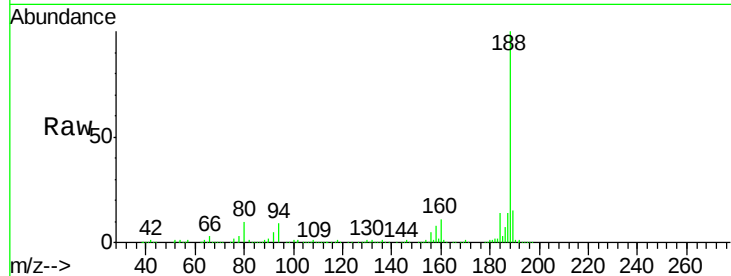
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1600
Delta R.T. 0.00 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

Tot Ion	Ratio	Resp	Lower	Upper
188	100	403293		
94	9.1		8.5	12.7
80	10.2		9.2	13.8

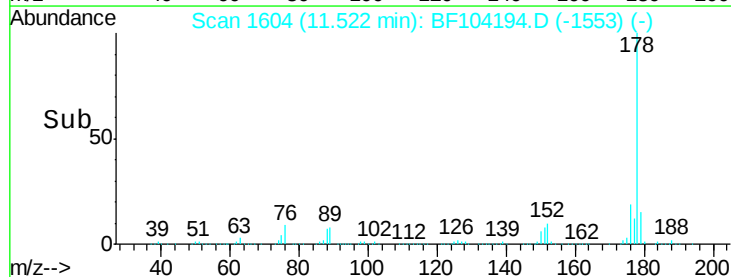
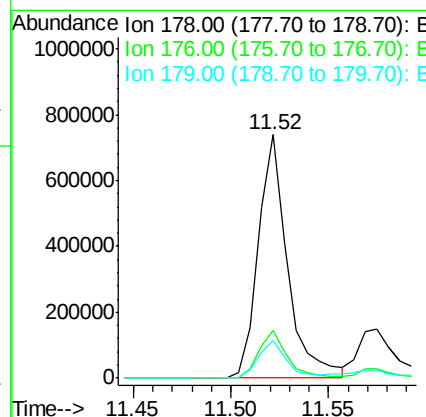
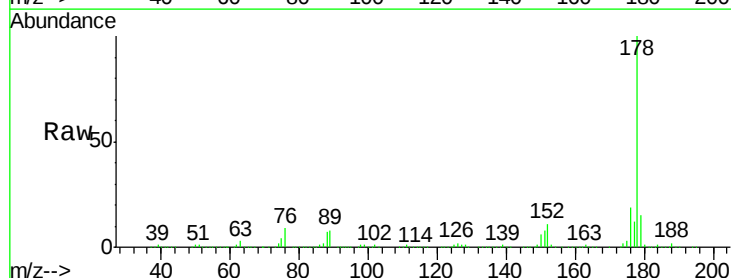
Manual Integrations
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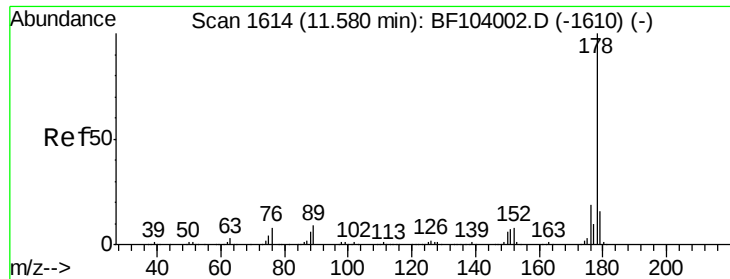
Sohil
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#70
Phenanthrene
Concen: 35.242 ng
RT: 11.52 min Scan# 1604
Delta R.T. 0.00 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	769498		
176	19.4		15.8	23.8
179	15.4		13.0	19.6





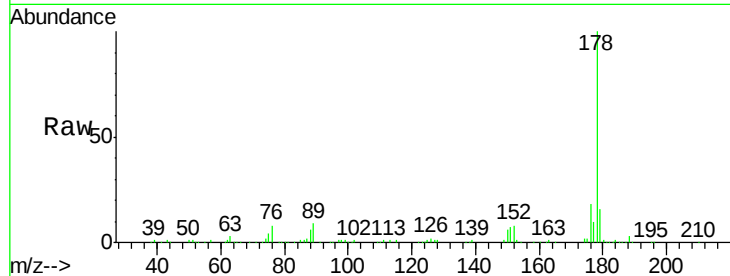
#71
 Anthracene
 Concen: 10.053 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. 0.00 min
 Lab File: BF104194.D
 Acq: 3 Apr 2018 21:57

Instrument :
 BNA_F
 ClientSampleId :
 6-WM-DIP-5-EW@3

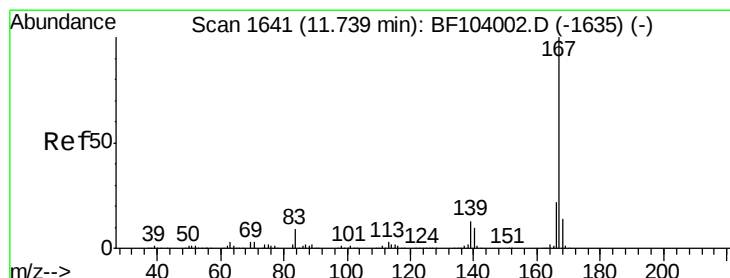
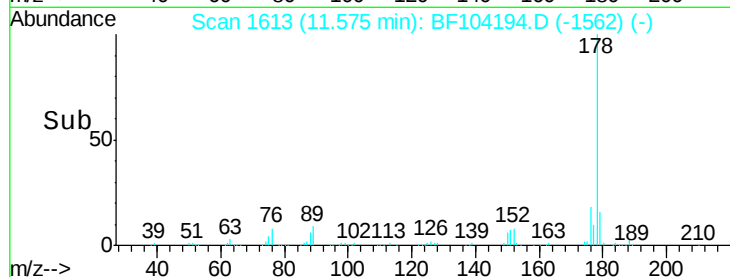
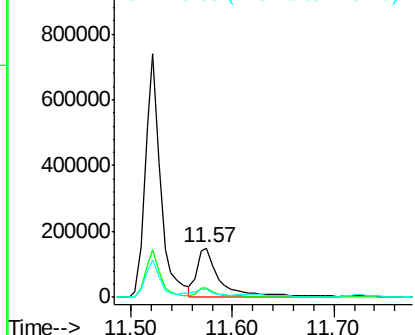
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.2
179	16.1	12.6	19.0

Manual Integrations
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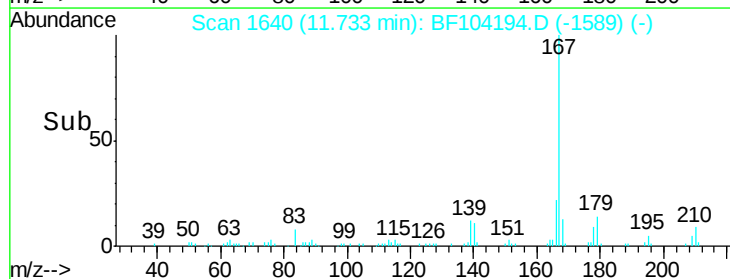
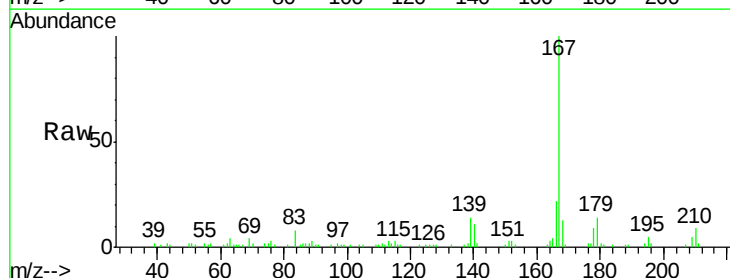
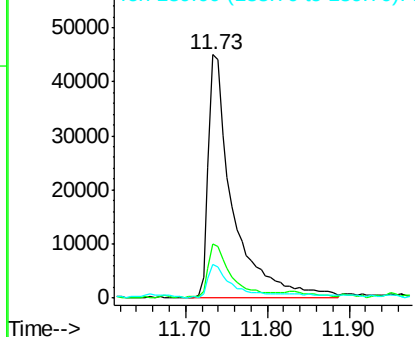
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

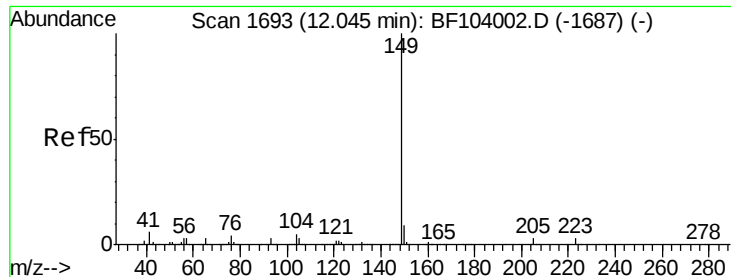


#72
 Carbazole
 Concen: 4.343 ng
 RT: 11.73 min Scan# 1640
 Delta R.T. 0.00 min
 Lab File: BF104194.D
 Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.6	26.4
139	13.6	10.9	16.3

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





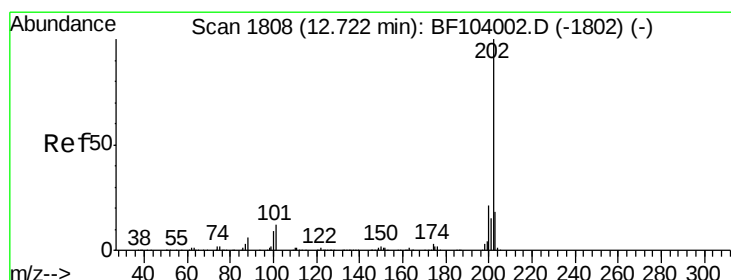
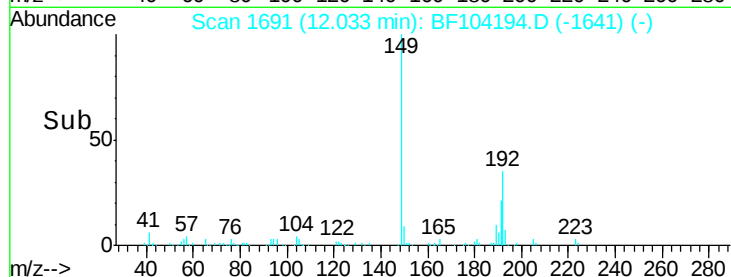
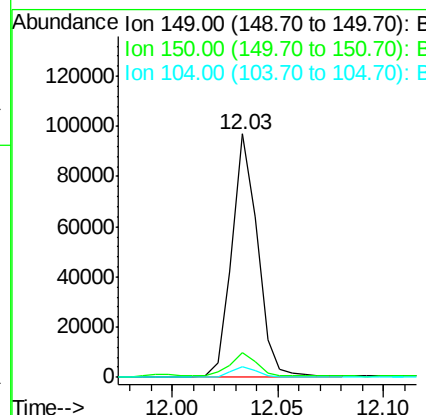
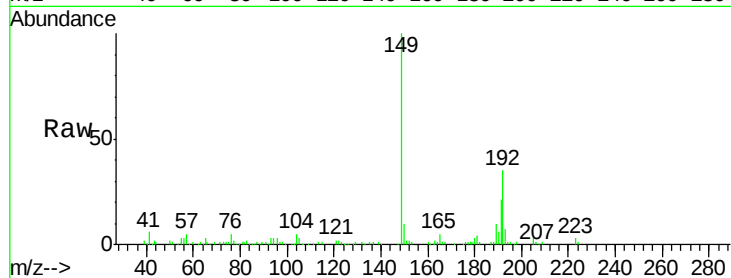
#73
Di-n-butylphthalate
Concen: 3.163 ng
RT: 12.03 min Scan# 1691
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

Tot Ion	Ratio	Lower	Upper
149	100		
150	10.1	7.8	11.6
104	4.5	3.8	5.8

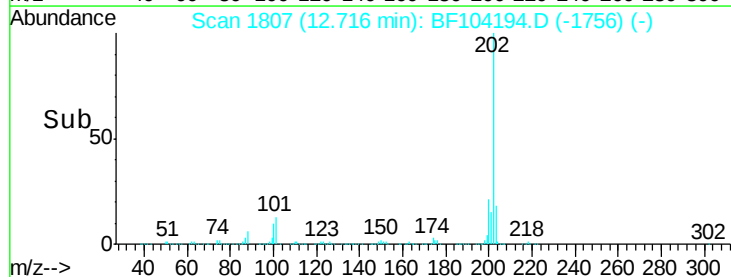
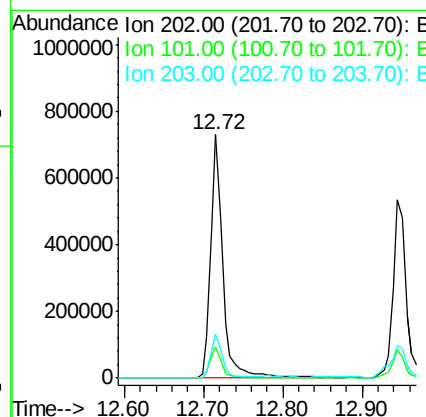
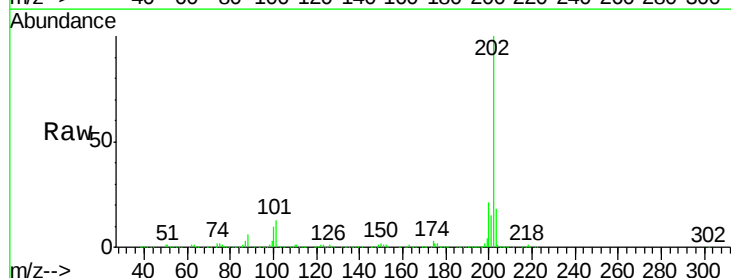
Manual Integrations
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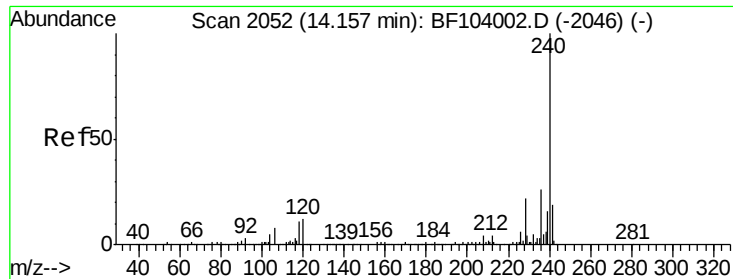
Sohil
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#74
Fluoranthene
Concen: 34.172 ng
RT: 12.72 min Scan# 1807
Delta R.T. 0.00 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	34.1
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

Instrument :

BNA_F

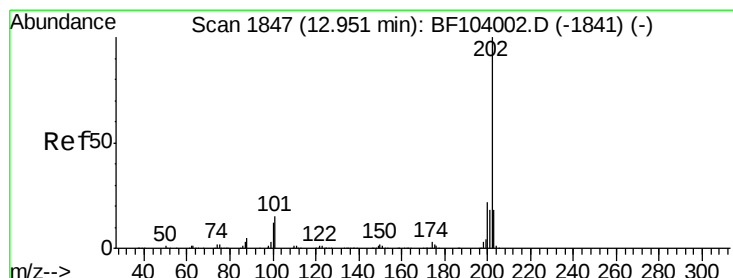
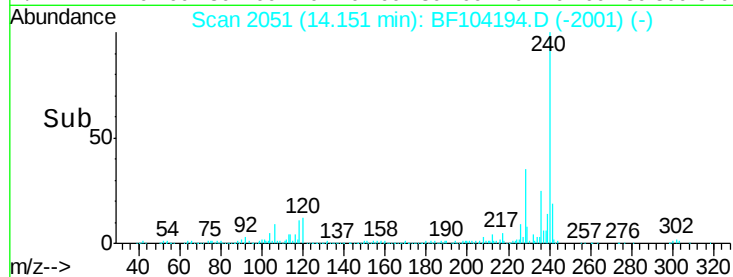
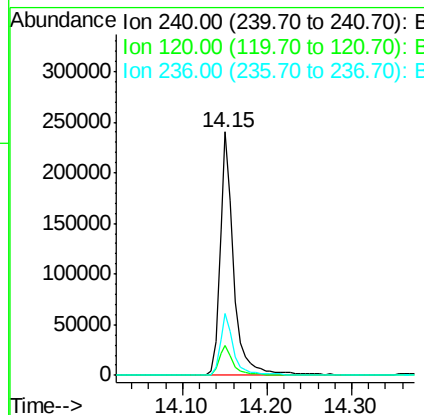
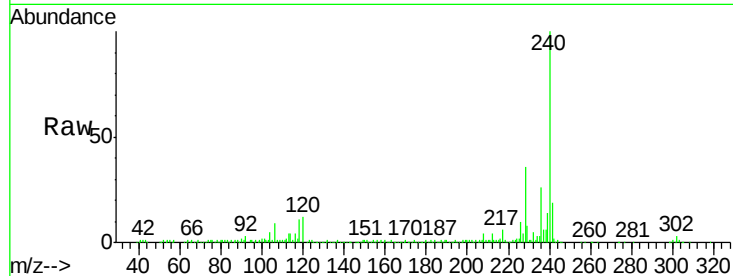
ClientSampleId :

6-WM-DIP-5-EW@3

Tot Ion:	240	Resp:	274549
Ion Ratio	Lower	Upper	
240	100		
120	12.3	9.5	14.3
236	25.6	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 32.049 ng

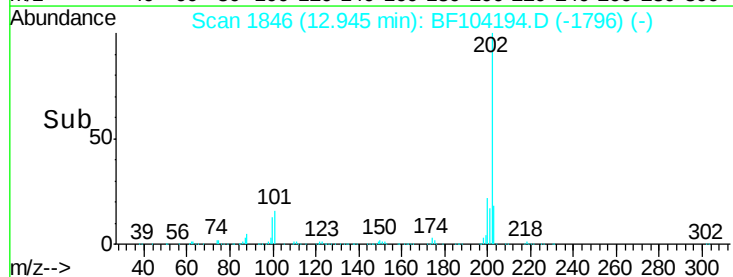
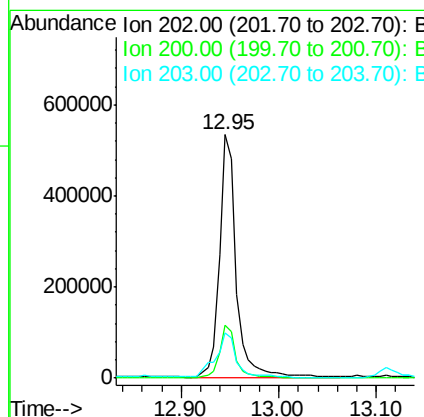
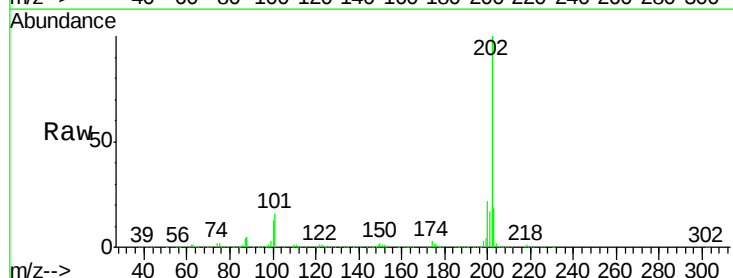
RT: 12.95 min Scan# 1846

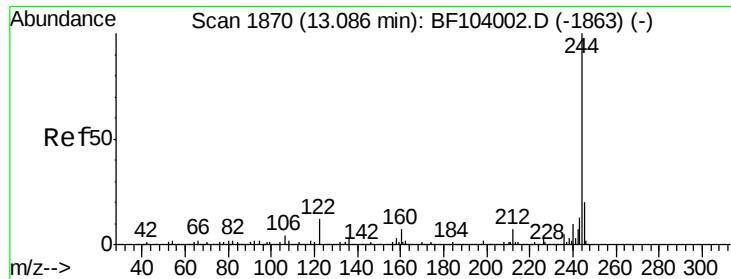
Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

Tgt Ion:	202	Resp:	632533
Ion Ratio	Lower	Upper	
202	100		
200	21.7	17.4	26.2
203	18.5	14.3	21.5





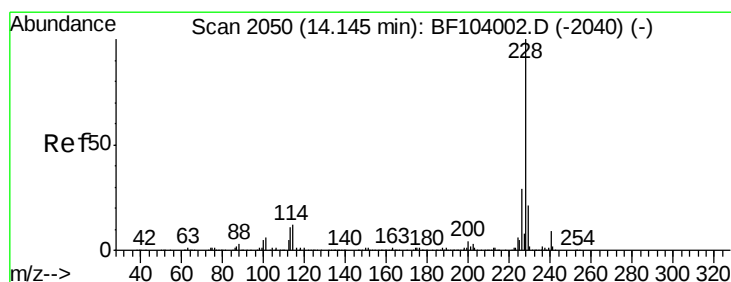
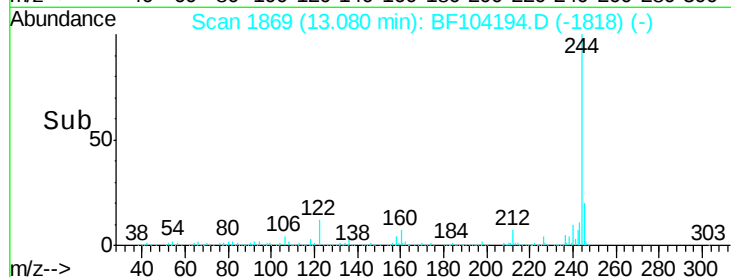
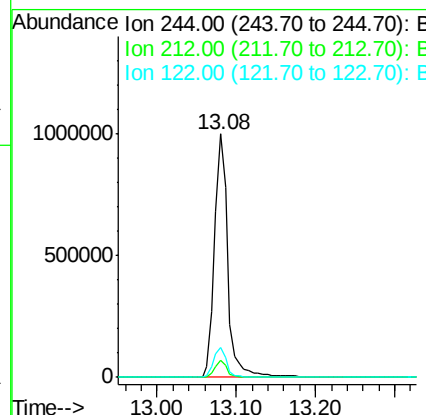
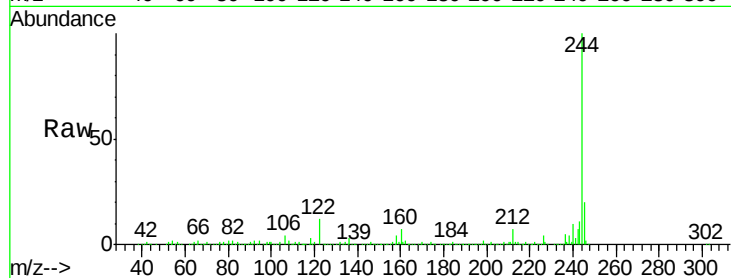
#78
 Terphenyl-d14
 Concen: 98.530 ng
 RT: 13.08 min Scan# 1869
 Delta R.T. 0.00 min
 Lab File: BF104194.D
 Acq: 3 Apr 2018 21:57

Instrument :
 BNA_F
 ClientSampleId :
 6-WM-DIP-5-EW@3

Tot Ion:244 Resp: 1171580
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.4 8.0
 122 12.4 11.0 16.4

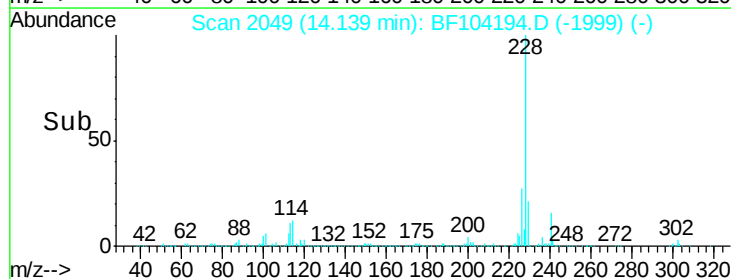
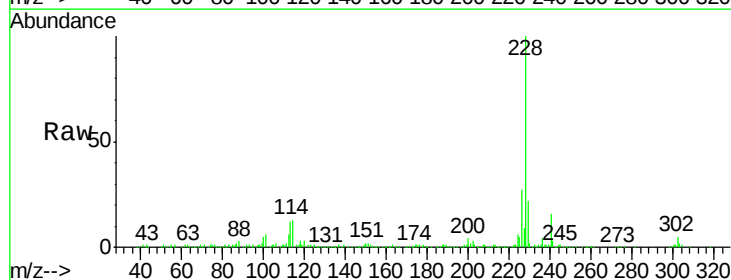
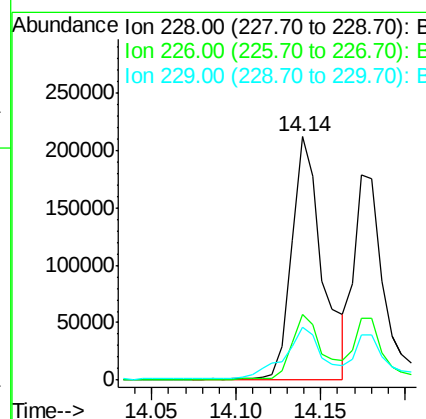
Manual Integrations
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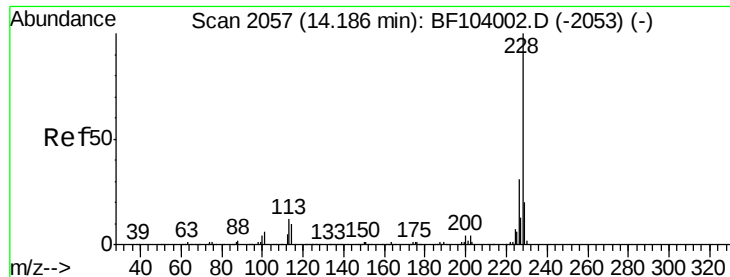
Sohil
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#80
 Benzo(a)anthracene
 Concen: 15.440 ng
 RT: 14.14 min Scan# 2049
 Delta R.T. -0.01 min
 Lab File: BF104194.D
 Acq: 3 Apr 2018 21:57

Tgt Ion:228 Resp: 265249
 Ion Ratio Lower Upper
 228 100
 226 26.9 22.6 33.8
 229 21.5 15.8 23.6





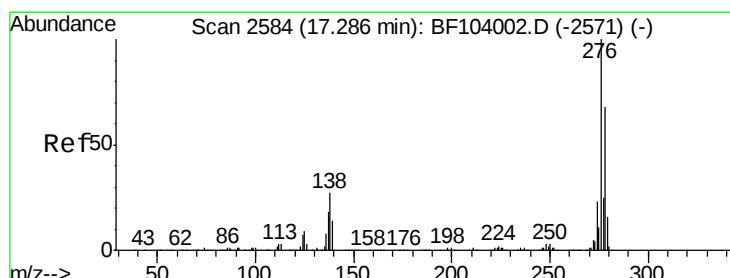
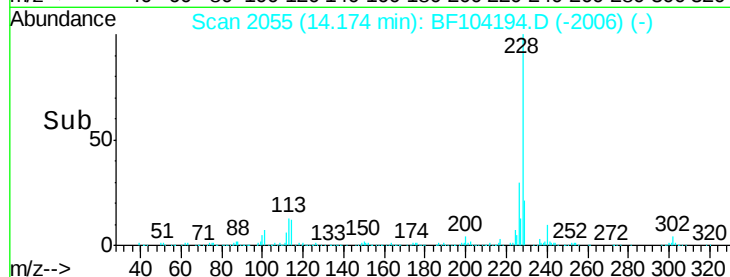
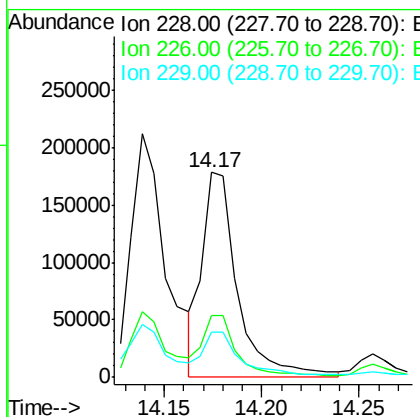
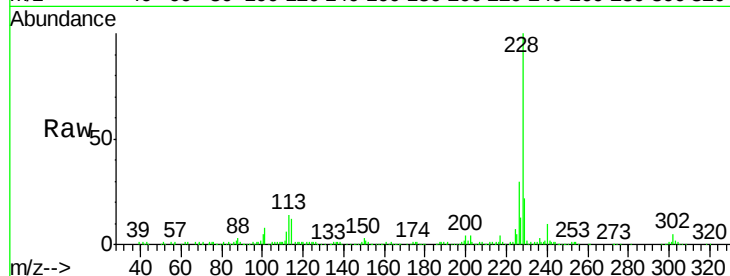
#82
Chrysene
Concen: 13.271 ng
RT: 14.17 min Scan# 2055
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

Tot Ion:	228	Resp:	223292
Ion Ratio	Lower	Upper	
228	100		
226	29.9	25.0	37.6
229	21.9	16.2	24.4

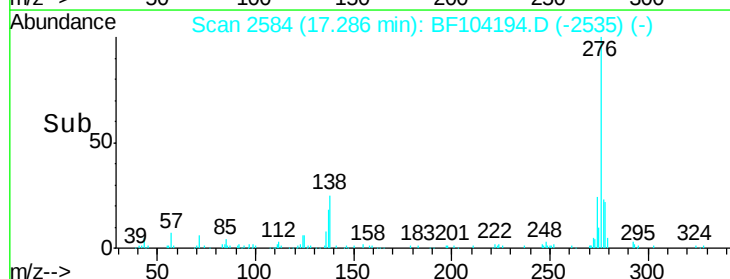
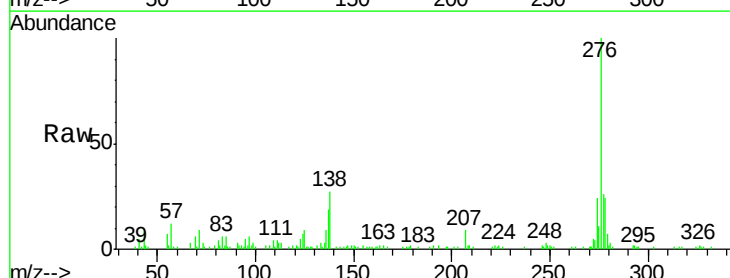
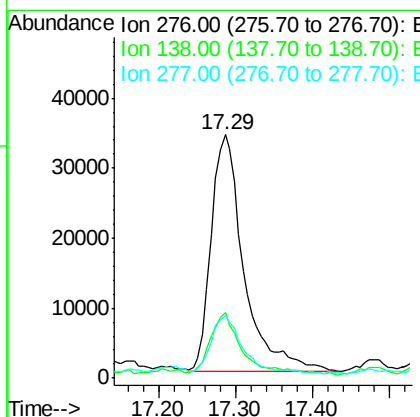
Manual Integrations
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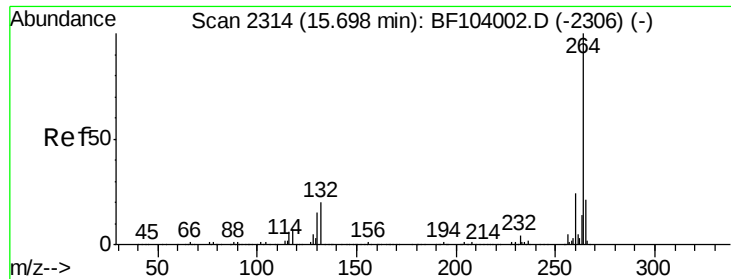
Sohil
4/4/2018 4:09:56 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 5.679 ng
RT: 17.29 min Scan# 2584
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion:	276	Resp:	99019
Ion Ratio	Lower	Upper	
276	100		
138	25.6	25.0	37.6
277	21.5	20.1	30.1





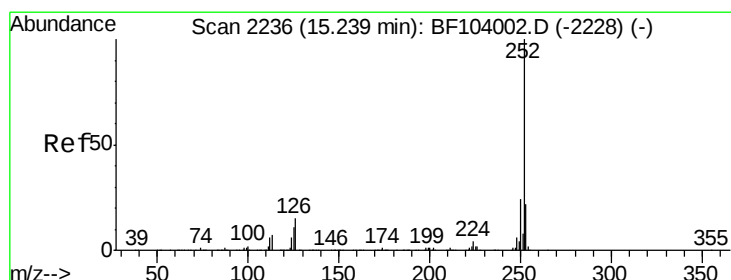
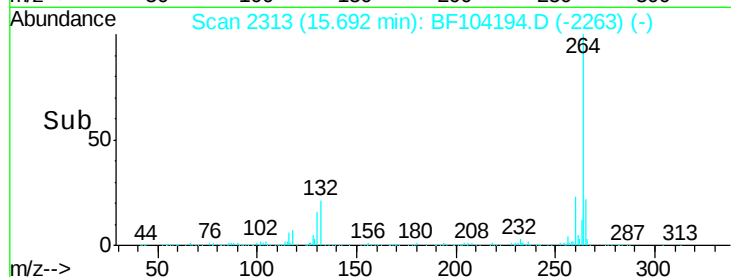
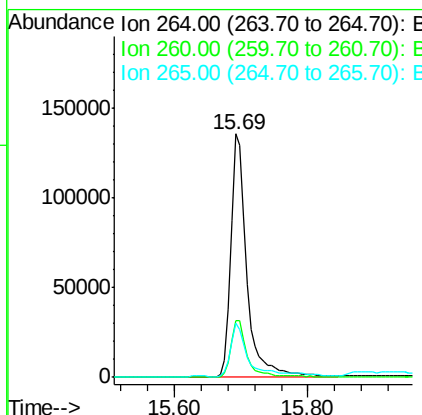
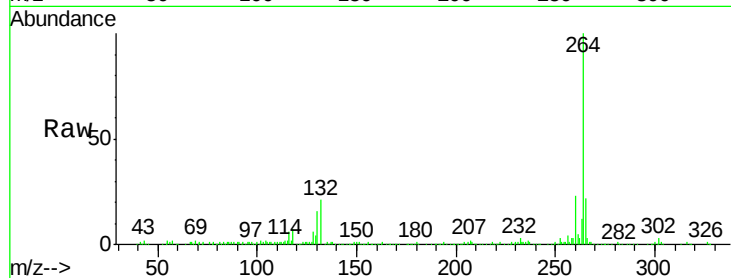
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2313
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.5	17.5	26.3

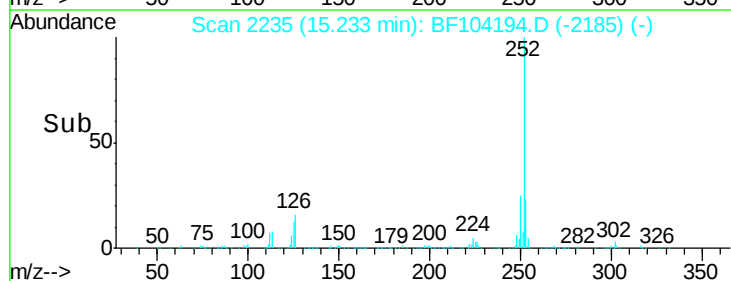
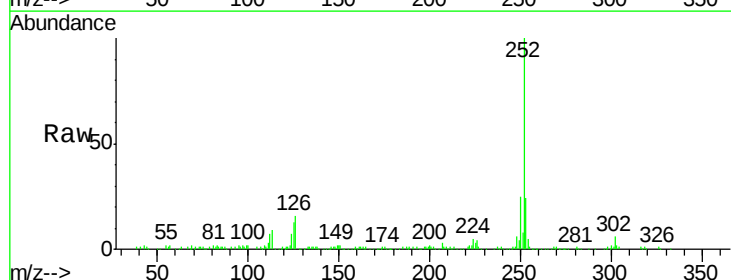
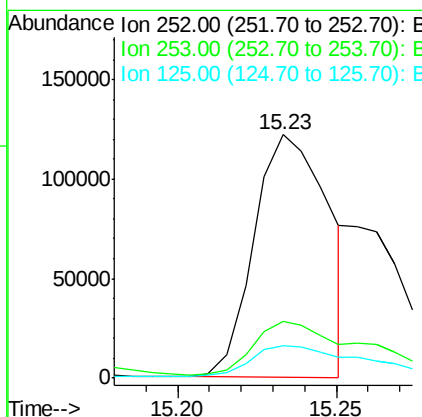
Manual Integrations
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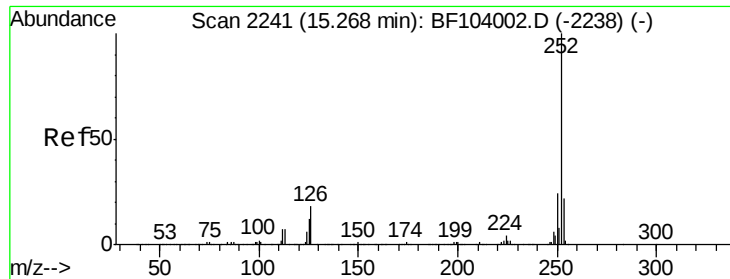
Sohil
4/4/2018 4:09:56 PM



#87
Benzo(b)fluoranthene
Concen: 14.154 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.0	25.6
125	13.4	9.0	13.6





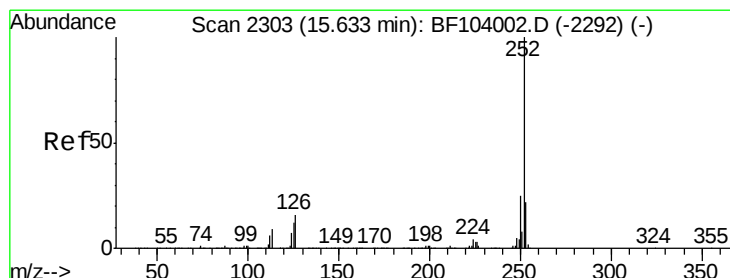
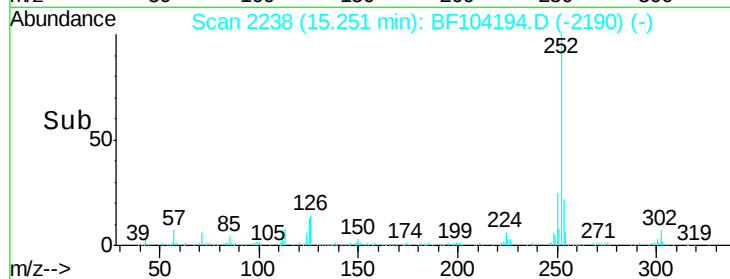
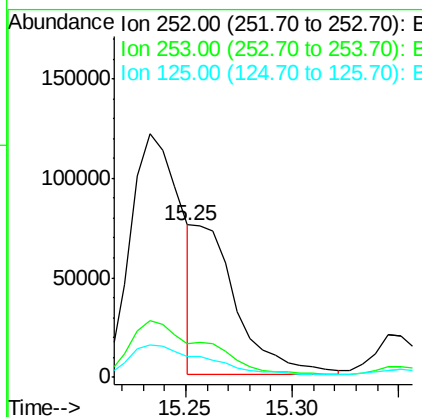
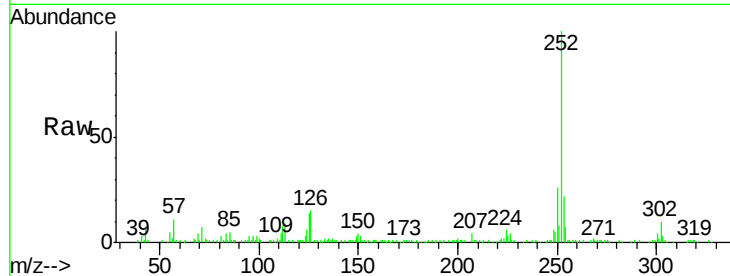
#88
Benzo(k)fluoranthene
Concen: 7.710 ng m
RT: 15.25 min Scan# 2238
Delta R.T. -0.02 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Instrument :
BNA_F
ClientSampleId :
6-WM-DIP-5-EW@3

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.9	26.9
125	13.8	10.2	15.2

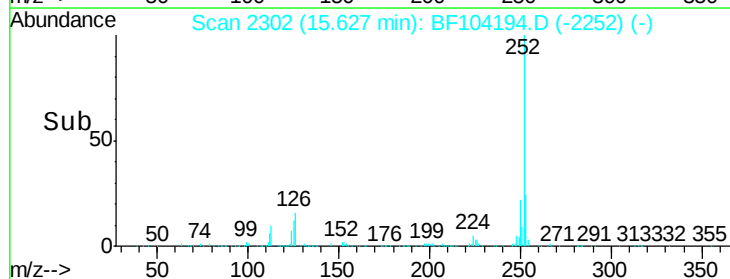
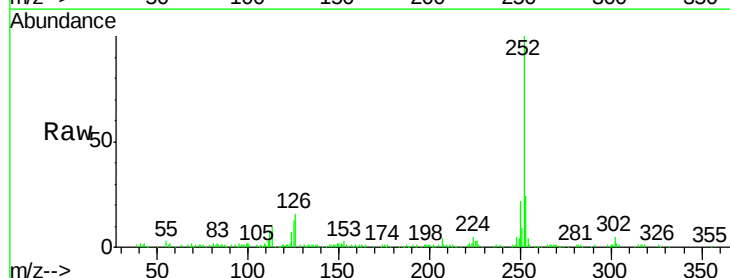
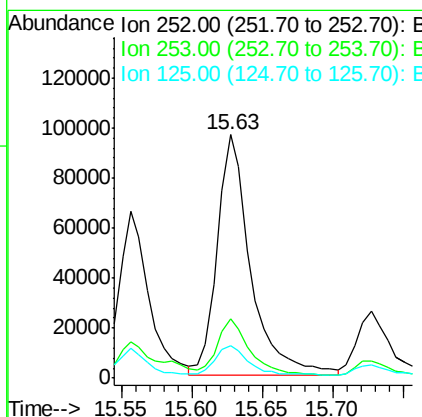
Manual Integrations
APPROVED

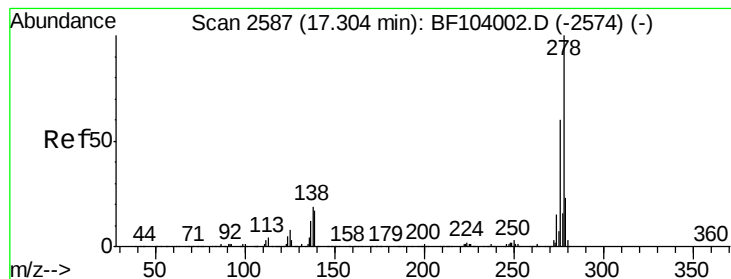
Sohil
4/4/2018 4:09:56 PM



#89
Benzo(a)pyrene
Concen: 12.241 ng
RT: 15.63 min Scan# 2302
Delta R.T. -0.01 min
Lab File: BF104194.D
Acq: 3 Apr 2018 21:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.1	25.7
125	13.4	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.396 ng/mL

RT: 17.29 min Scan# 2585

Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

Instrument :

BNA_F

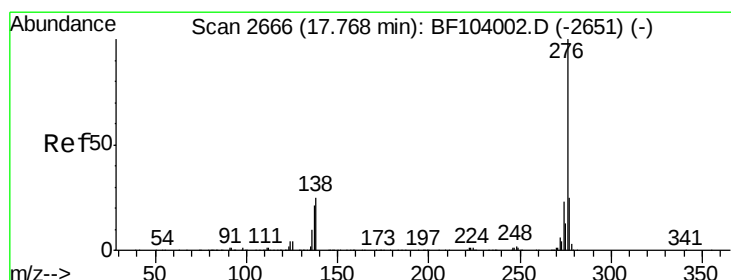
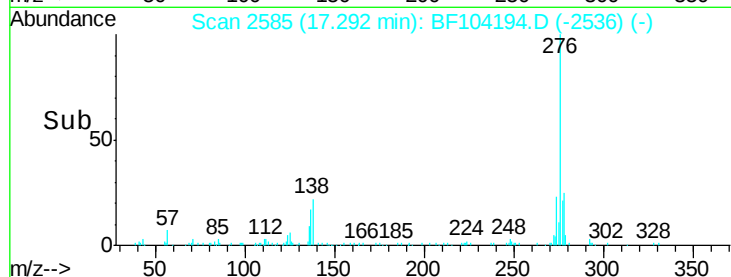
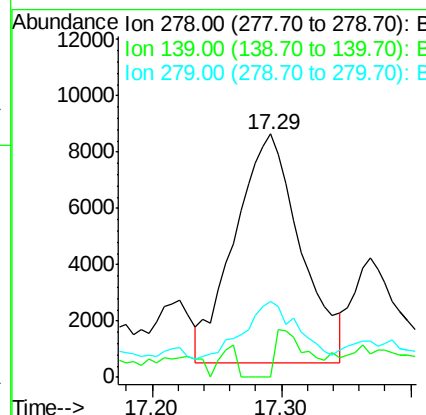
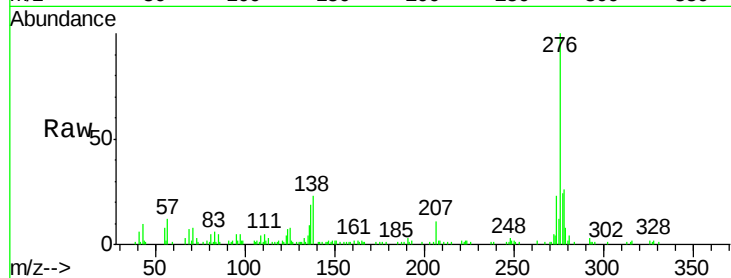
ClientSampleId :

6-WM-DIP-5-EW@3

Tot Ion:	278	Resp:	28968
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	31.0	19.0	28.4#

Manual Integrations
APPROVED

Sohil
4/4/2018 4:09:56 PM



#91

Benzo(g,h,i)perylene

Concen: 8.010 ng/mL

RT: 17.77 min Scan# 2666

Delta R.T. -0.01 min

Lab File: BF104194.D

Acq: 3 Apr 2018 21:57

Tgt Ion:	276	Resp:	96984
Ion Ratio	Lower	Upper	
276	100		
277	23.7	17.9	26.9
138	24.4	21.8	32.8

