

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111918\
 Data File : BF110846.D
 Acq On : 19 Nov 2018 12:10
 Operator : JU/SJ
 Sample : J5977-08
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MMTW-03(8-10)

Manual Integrations
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 11/20/2018 11:07:17 AM

Quant Time: Nov 19 15:25:03 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 13 12:43:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.94	152	67502	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	287436	20.00	ng	0.00
39) Acenaphthene-d10	9.98	164	136380	20.00	ng	-0.01
64) Phenanthrene-d10	11.47	188	241073	20.00	ng	-0.01
76) Chrysene-d12	14.13	240	149625	20.00	ng	0.00
87) Perylene-d12	15.66	264	153781	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	306839	73.84	ng	0.00
7) Phenol-d6	6.56	99	391144	73.60	ng	-0.01
23) Nitrobenzene-d5	7.50	82	253136	50.72	ng	-0.01
42) 2,4,6-Tribromophenol	10.77	330	96830	70.46	ng	-0.01
45) 2-Fluorobiphenyl	9.29	172	438845	45.96	ng	-0.01
79) Terphenyl-d14	13.06	244	325208	40.70	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.57	94	22649	3.676	ng	86
31) Naphthalene	8.25	128	118106	8.753	ng	99
37) 2-Methylnaphthalene	8.94	142	24712	2.794	ng	97
38) 1-Methylnaphthalene	9.03	142	18857	2.217	ng	# 97
50) Dimethylphthalate	9.69	163	109640	10.774	ng	99
52) Acenaphthene	10.01	154	53093	6.365	ng	96
55) Dibenzofuran	10.19	168	49471	4.053	ng	97
58) Fluorene	10.53	166	75139	8.015	ng	99
71) Phenanthrene	11.50	178	708081	54.824	ng	100
72) Anthracene	11.55	178	204739	15.715	ng	98
73) Carbazole	11.71	167	50654	4.048	ng	98
75) Fluoranthene	12.70	202	794228	61.337	ng	100
78) Pvrene	12.93	202	689144	59.818	ng	99
81) Benzo(a)anthracene	14.12	228	349216	39.048	ng	99
83) Chrysene	14.16	228	277563	32.577	ng	97
86) Indeno(1,2,3-cd)pyrene	17.24	276	154068	25.199	ng	97
88) Benzo(b)fluoranthene	15.21	252	405062m	44.030	ng	
89) Benzo(k)fluoranthene	15.23	252	105620m	11.619	ng	
90) Benzo(a)pvrene	15.60	252	298776	35.745	ng	100
91) Dibenzo(a,h)anthracene	17.23	278	40187m	5.681	ng	
92) Benzo(q,h,i)perylene	17.72	276	141552	20.169	ng	96

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

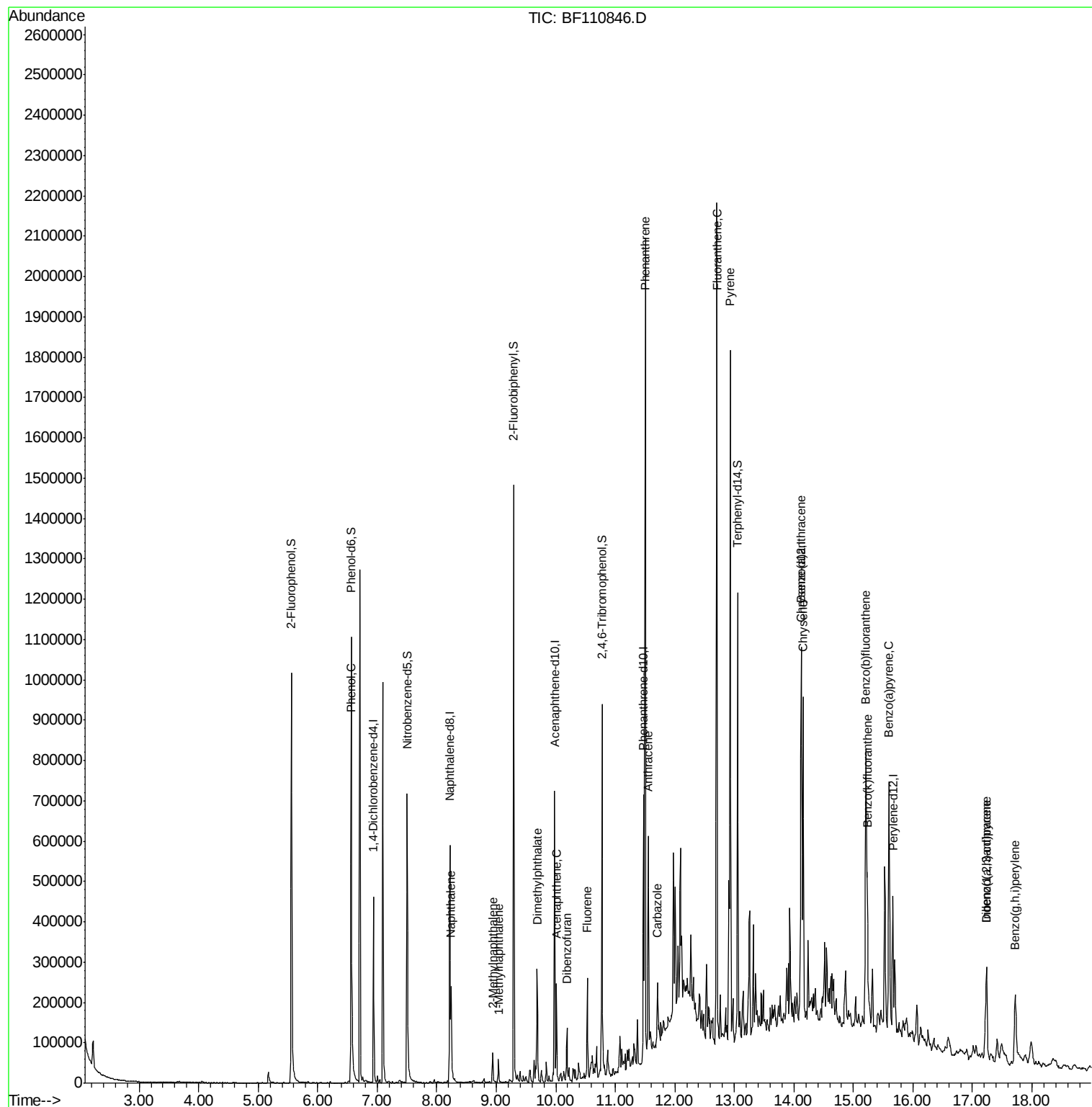
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111918\
Data File : BF110846.D
Acq On : 19 Nov 2018 12:10
Operator : JU/SJ
Sample : J5977-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

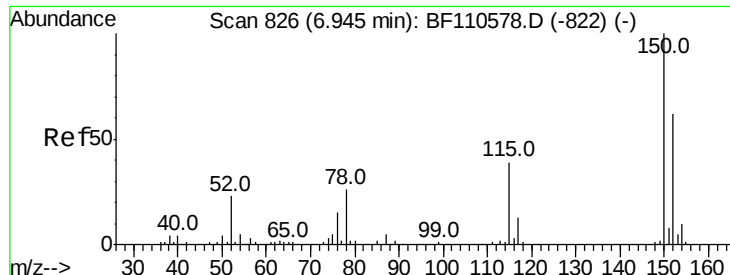
Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 13 12:43:10 2018
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#1

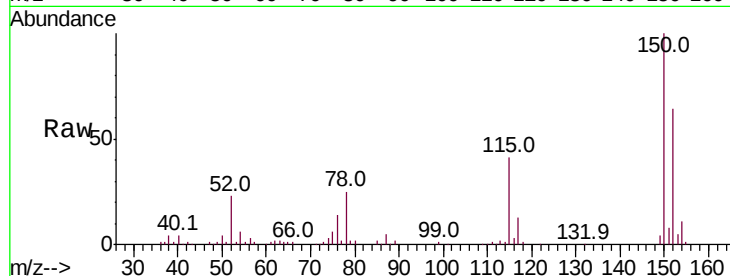
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	122.7	184.1
115	63.5	49.1	73.7

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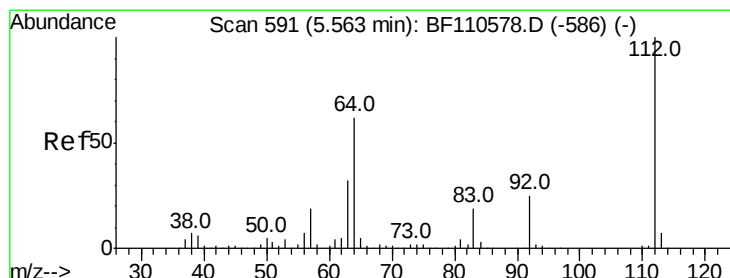
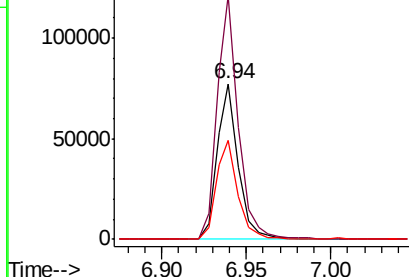
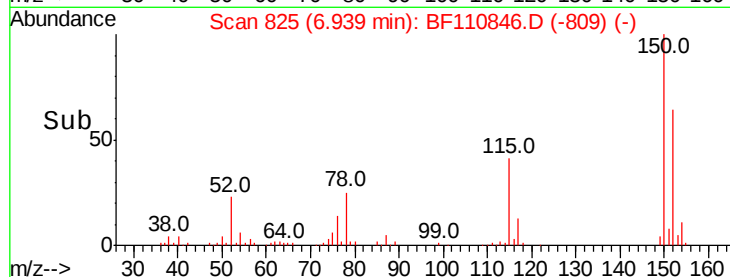


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

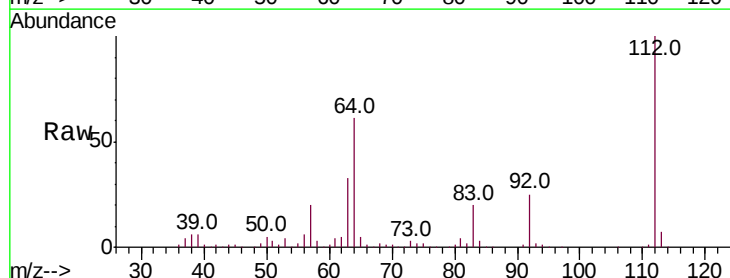
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 73.835 ng
RT: 5.56 min Scan# 590
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	44.1	66.1
63	33.0	23.7	35.5

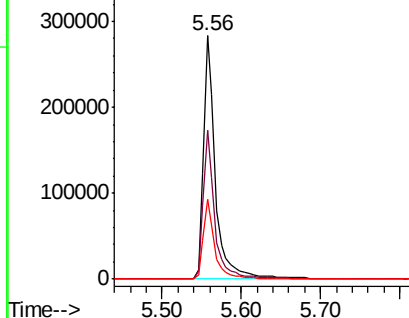
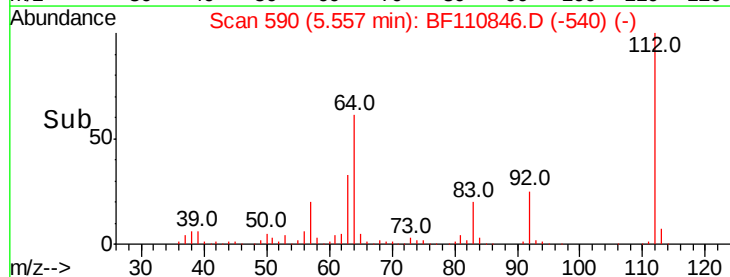


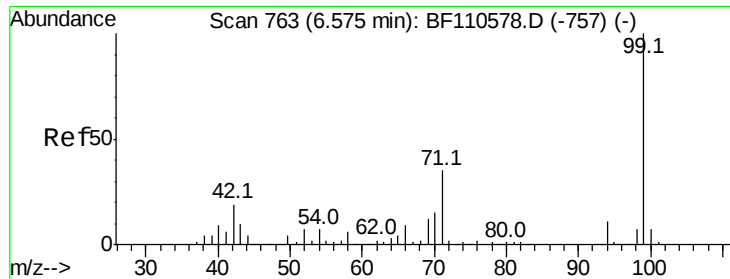
Abundance

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: 73.604 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

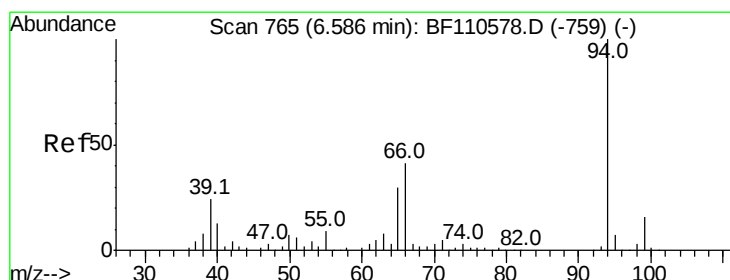
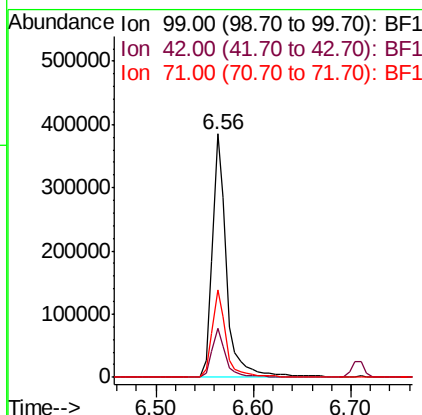
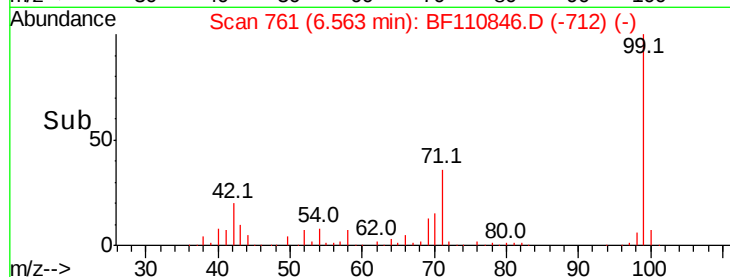
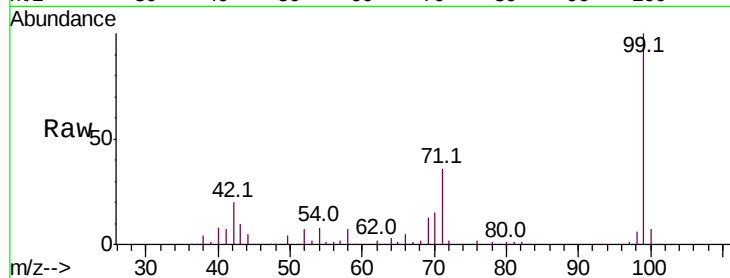
ClientSampleId :

MMTW-03(8-10)

Tot Ion:	99	Resp:	391144
Ion Ratio	Lower	Upper	
99	100		
42	20.1	15.8	23.6
71	36.2	28.0	42.0

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#10

Phenol

Concen: 3.676 ng

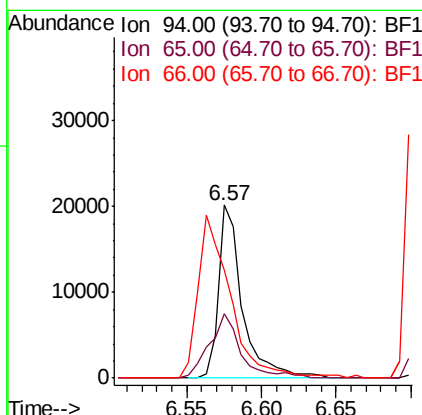
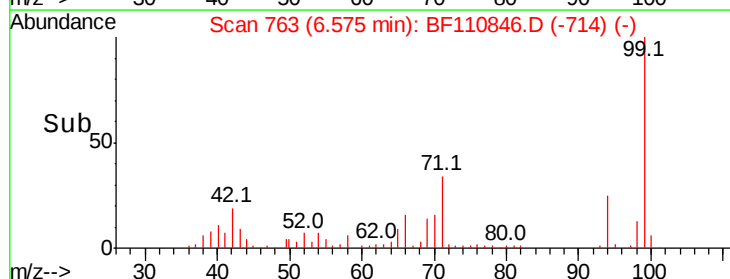
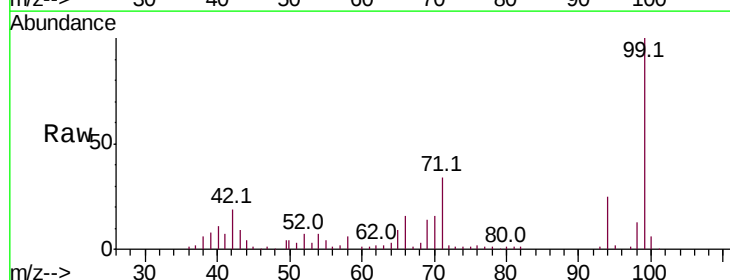
RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Tgt Ion:	94	Resp:	22649
Ion Ratio	Lower	Upper	
94	100		
65	37.1	25.3	65.3
66	62.4	54.5	94.5





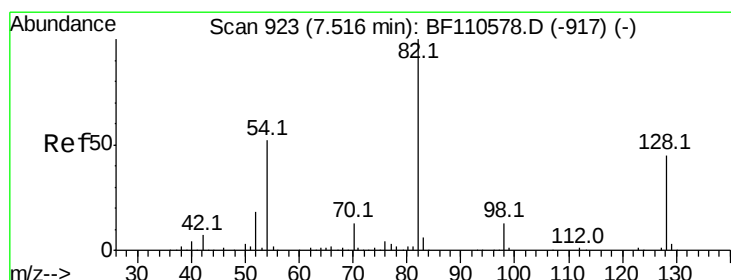
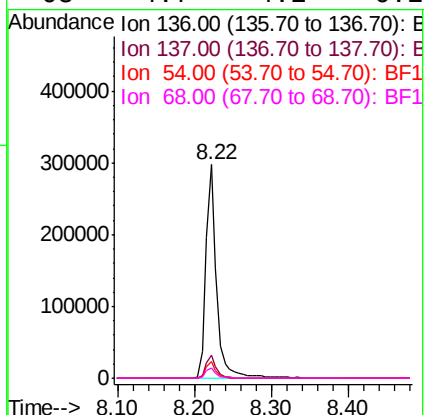
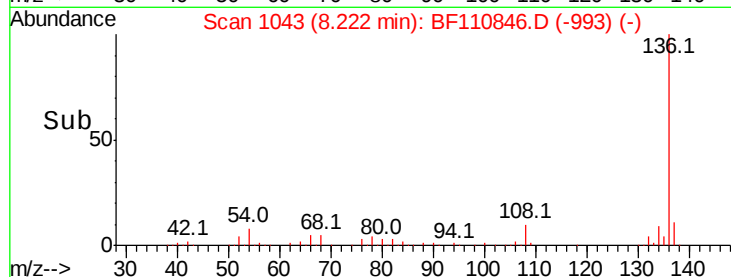
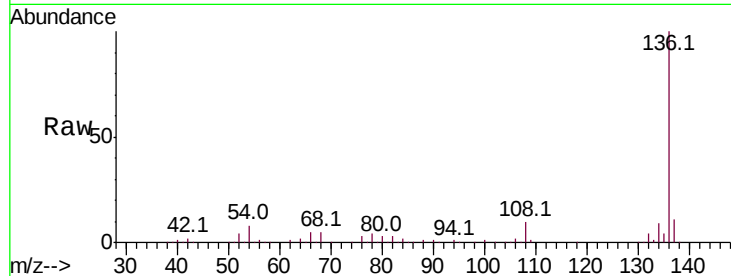
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.22 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.5	8.8	13.2	
54	7.6	5.4	8.2	
68	4.7	4.2	6.2	

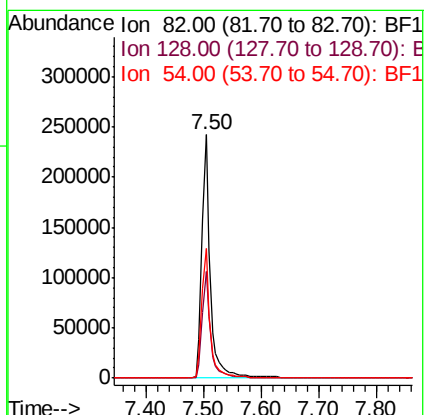
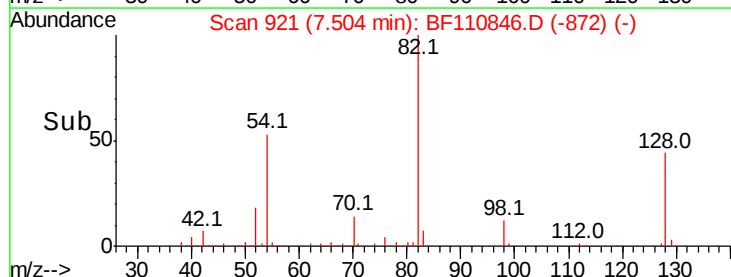
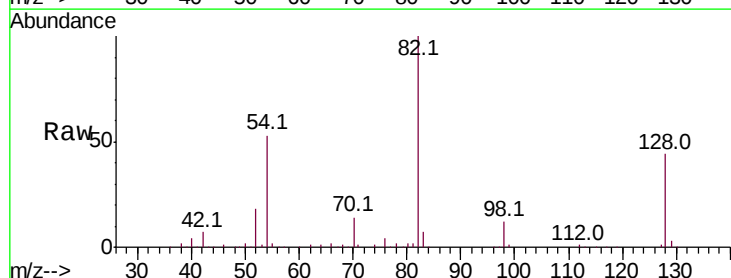
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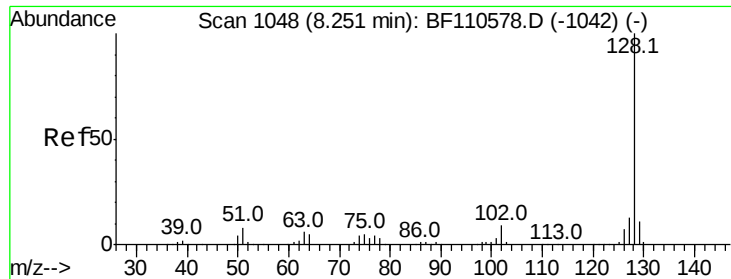
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#23
Nitrobenzene-d5
Concen: 50.717 ng
RT: 7.50 min Scan# 921
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.8	34.2	51.2	
54	53.3	38.6	58.0	





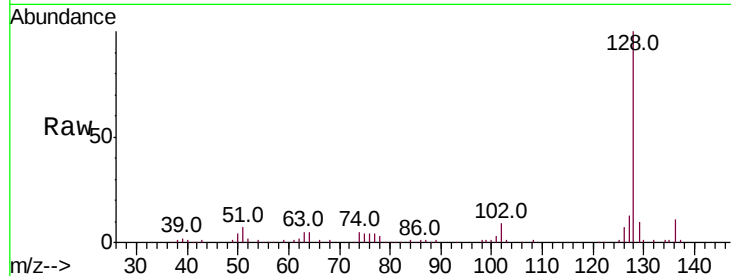
#31
Naphthalene
Concen: 8.753 ng
RT: 8.25 min Scan# 1047
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

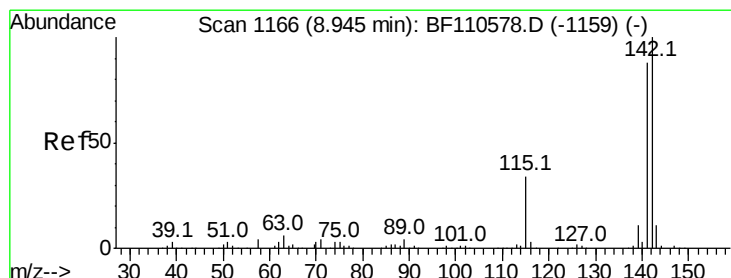
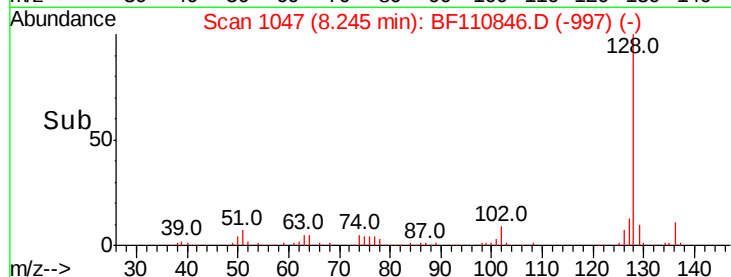
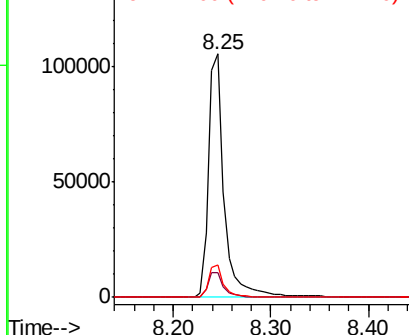
Tot Ion	Ratio	Resp	Lower	Upper
128	100	118106		
129	10.3		8.8	13.2
127	13.2		10.8	16.2

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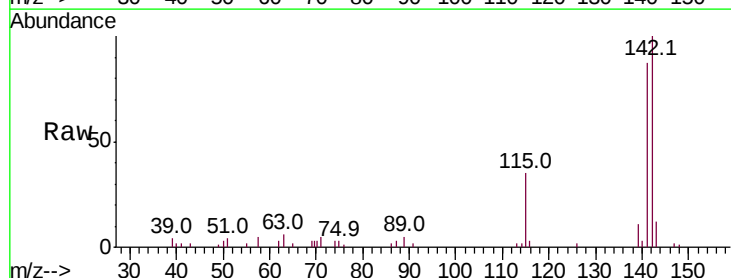


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

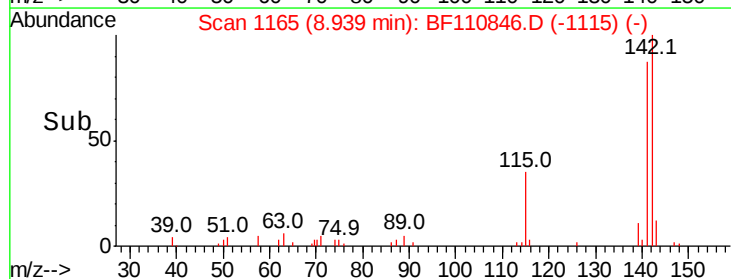
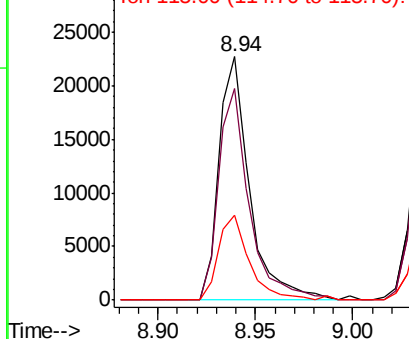


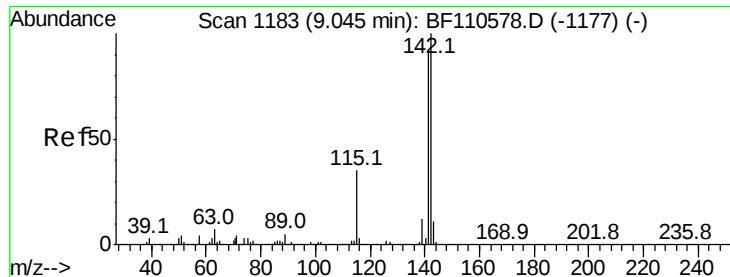
#37
2-Methylnaphthalene
Concen: 2.794 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	24712		
141	86.7		71.4	107.2
115	34.7		28.7	43.1



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





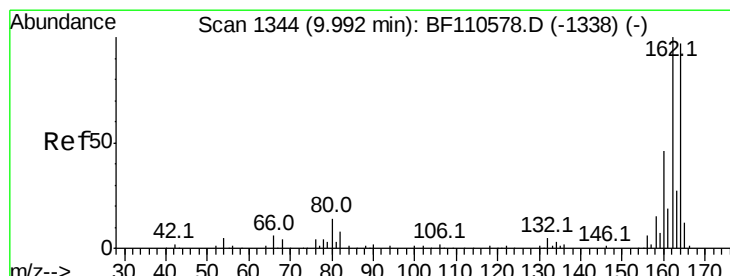
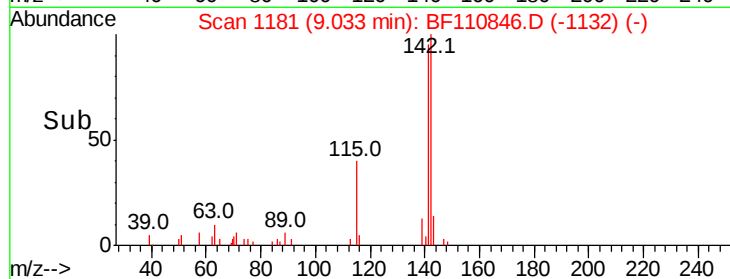
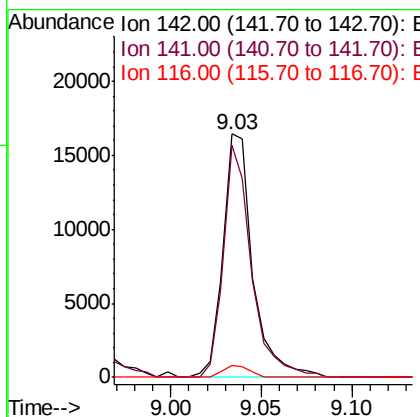
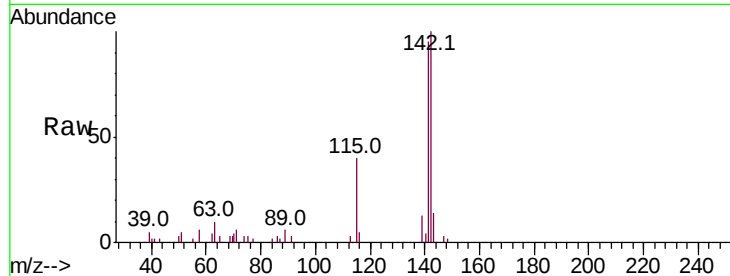
#38
1-Methylnaphthalene
Concen: 2.217 ng
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
142	100		
141	95.3	74.2	111.4
116	5.0	2.6	4.0

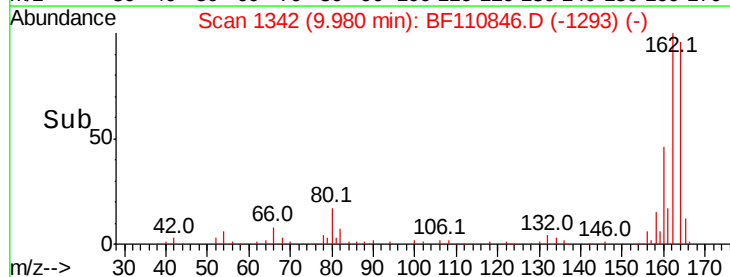
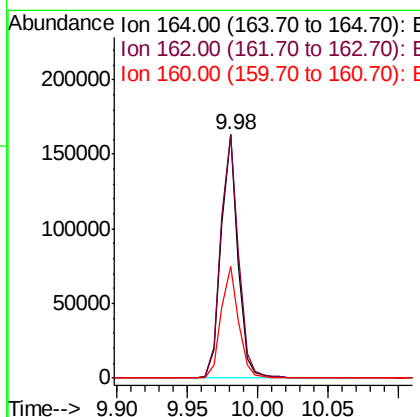
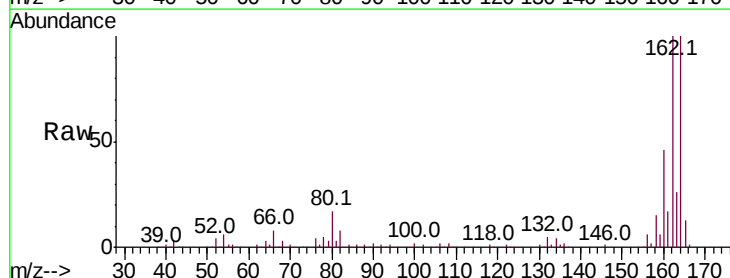
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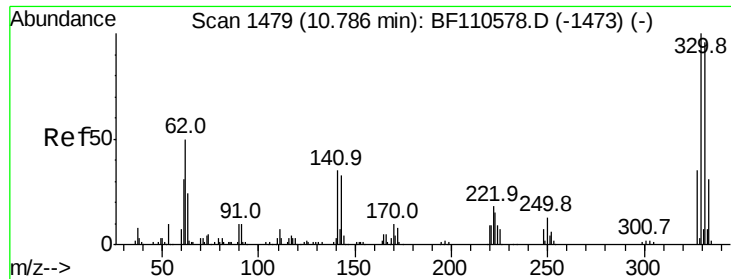
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.1	83.0	124.6
160	46.0	37.0	55.6





#42

2,4,6-Tribromophenol

Concen: 70.463 ng

RT: 10.77 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

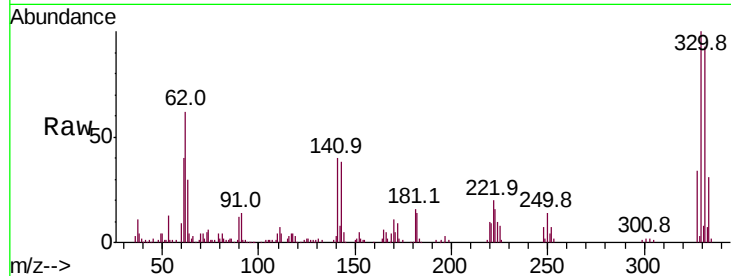
ClientSampleId :

MMTW-03(8-10)

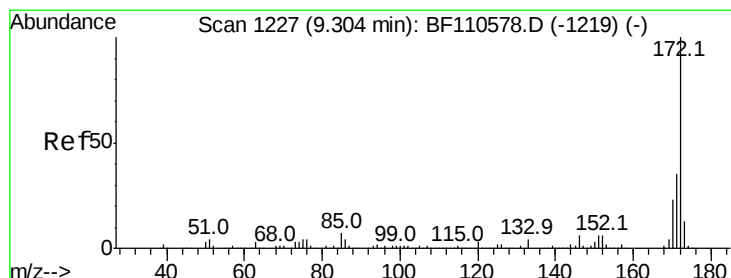
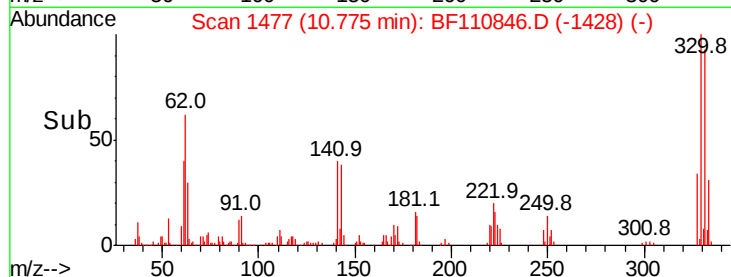
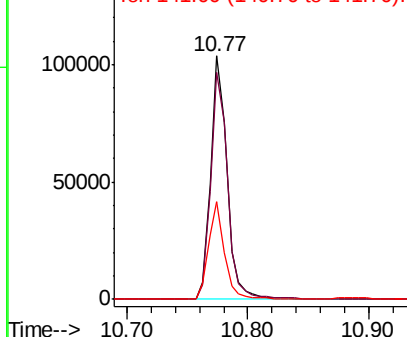
Tot Ion:	330	Resp:	96830
Ion Ratio	Lower	Upper	
330	100		
332	95.8	77.1	115.7
141	39.9	27.0	40.4

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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



#45

2-Fluorobiphenyl

Concen: 45.956 ng

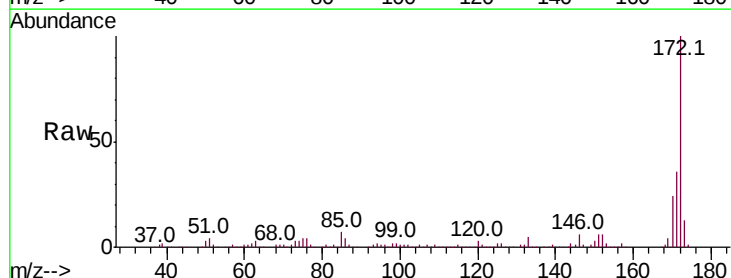
RT: 9.29 min Scan# 1225

Delta R.T. -0.01 min

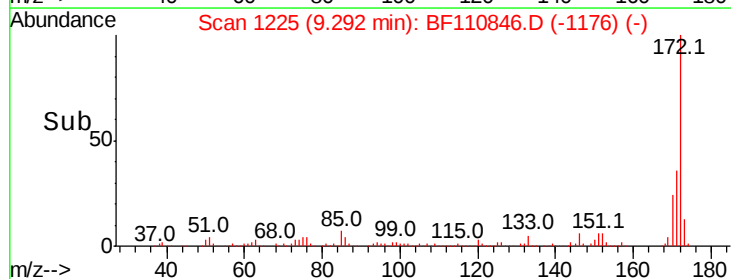
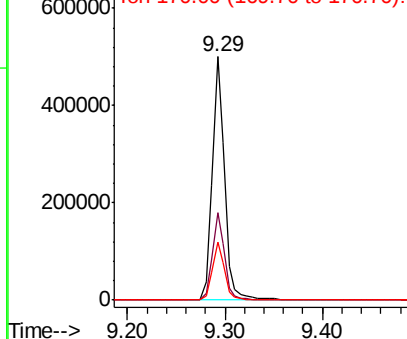
Lab File: BF110846.D

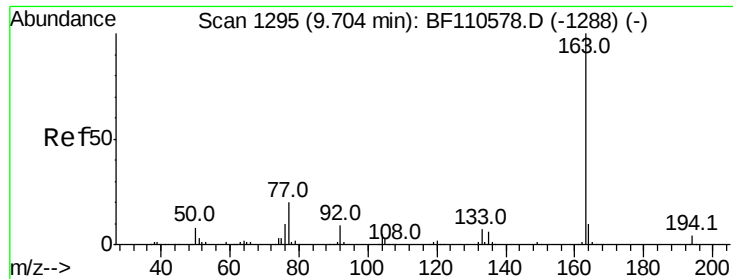
Acq: 19 Nov 2018 12:10

Tgt Ion:	172	Resp:	438845
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.6	43.0
170	23.7	19.7	29.5



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





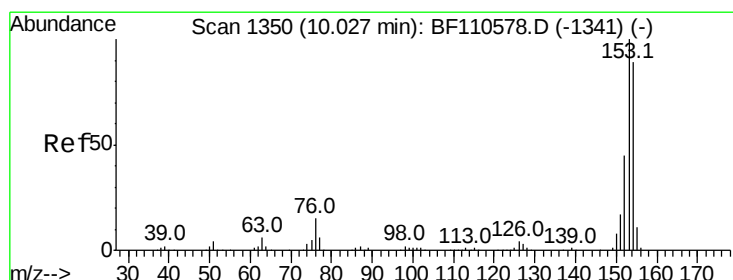
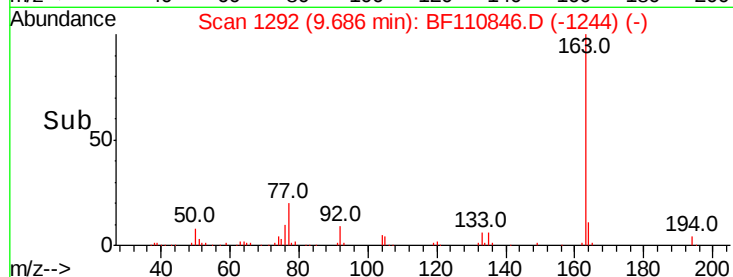
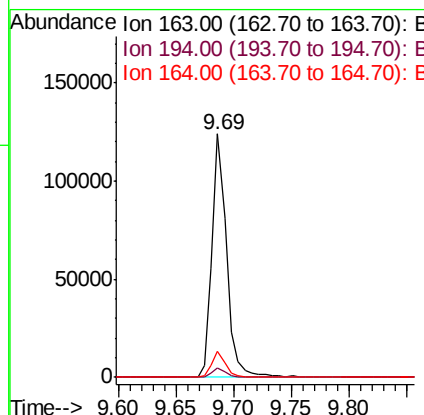
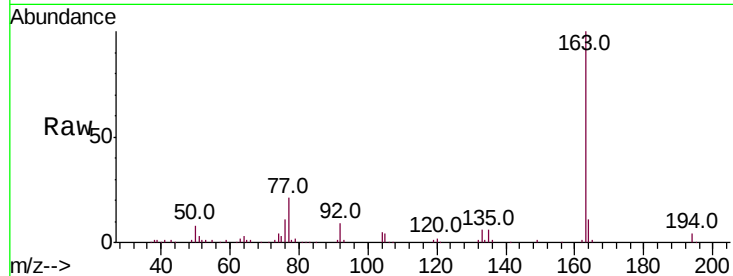
#50
Dimethylphthalate
Concen: 10.774 ng
RT: 9.69 min Scan# 1292
Delta R.T. -0.02 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100				
194	3.8		3.2	4.8	
164	10.6		8.1	12.1	

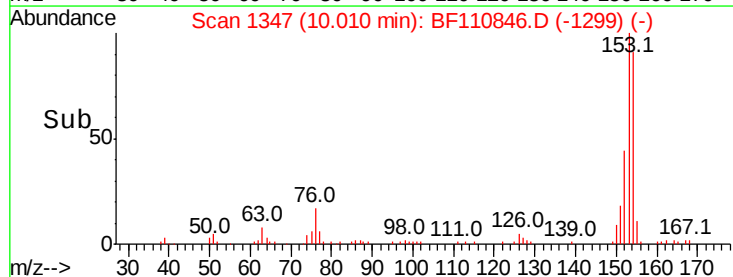
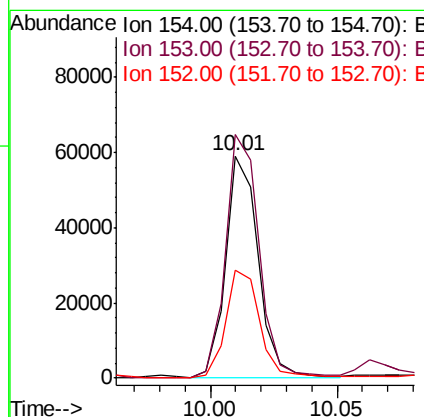
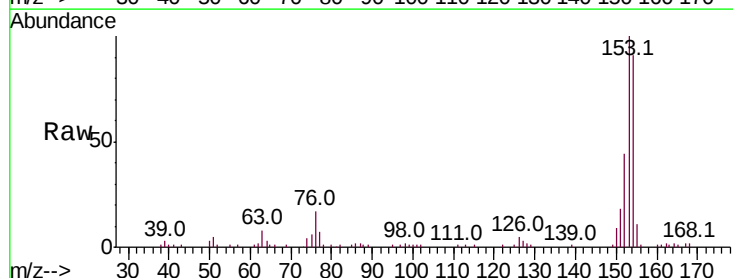
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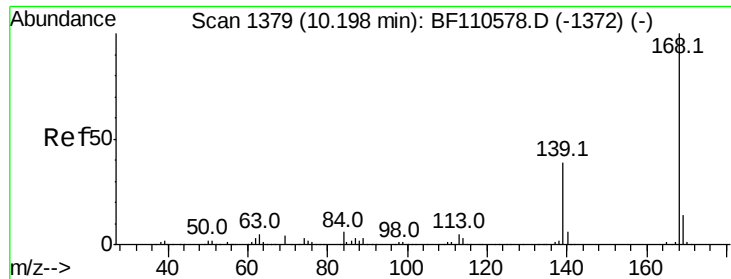
Sohil
11/20/2018 11:07:17 AM



#52
Acenaphthene
Concen: 6.365 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.02 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
154	100				
153	109.8		90.1	135.1	
152	48.5		43.4	65.2	





#55

Dibenzofuran

Concen: 4.053 ng

RT: 10.19 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

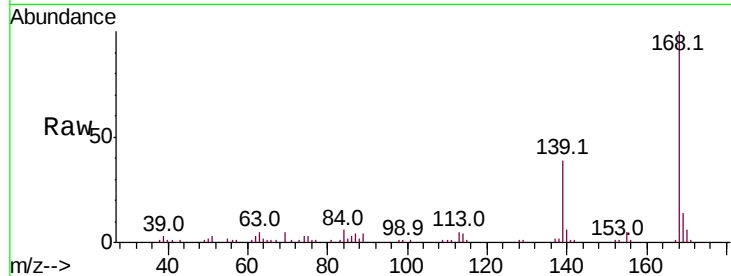
ClientSampleId :

MMTW-03(8-10)

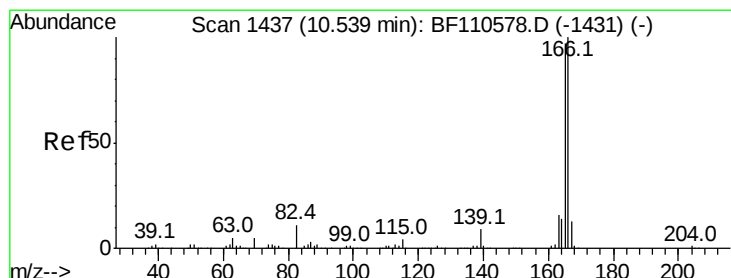
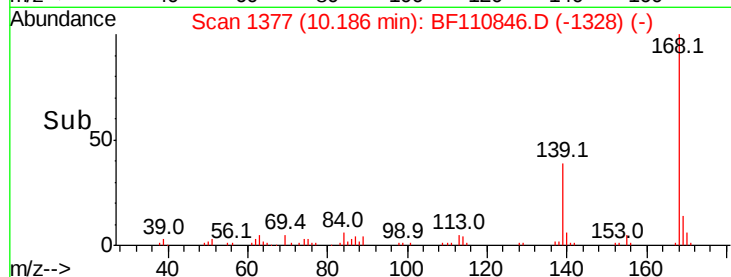
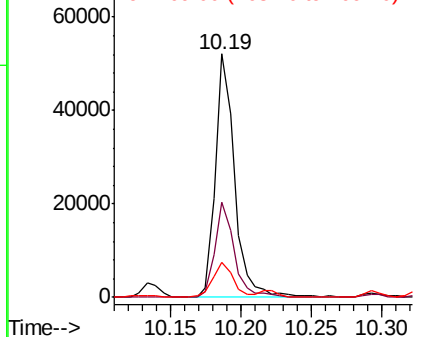
Tot Ion:	168	Resp:	49471
Ion Ratio	Lower	Upper	
168	100		
139	39.2	33.0	49.6
169	14.4	11.3	16.9

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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



#58

Fluorene

Concen: 8.015 ng

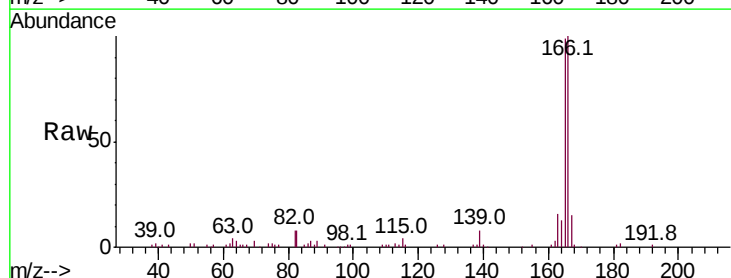
RT: 10.53 min Scan# 1436

Delta R.T. -0.01 min

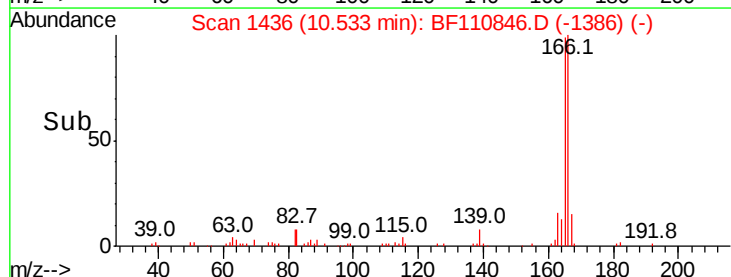
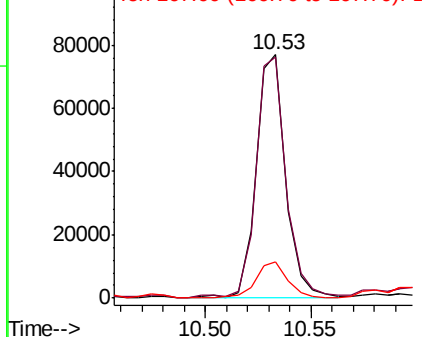
Lab File: BF110846.D

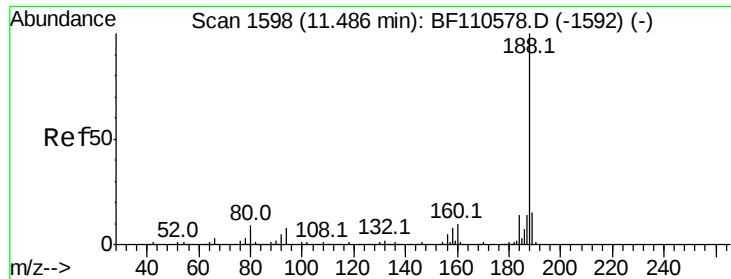
Acq: 19 Nov 2018 12:10

Tgt Ion:	166	Resp:	75139
Ion Ratio	Lower	Upper	
166	100		
165	99.0	78.6	117.8
167	14.7	10.8	16.2



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

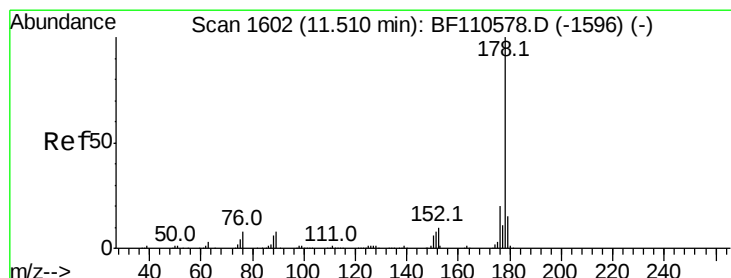
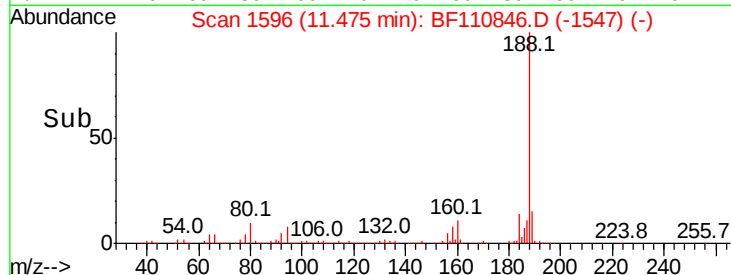
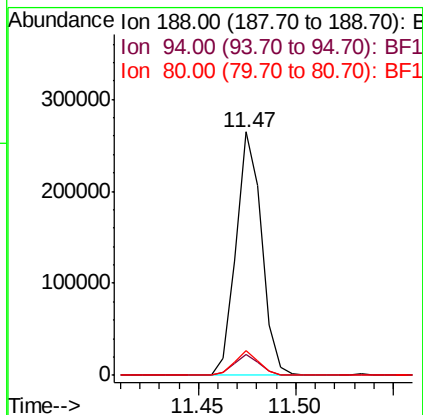
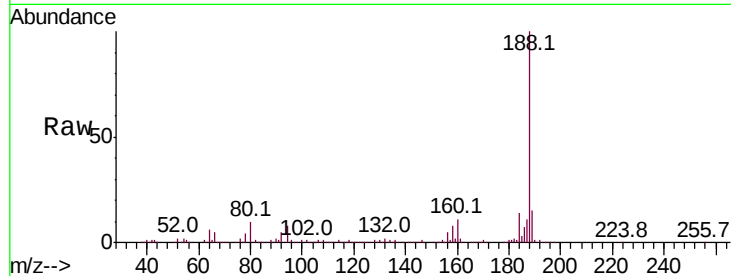
ClientSampleId :

MMTW-03(8-10)

Tot Ion:	188	Resp:	241073
Ion Ratio	Lower	Upper	
188	100		
94	8.5	7.2	10.8
80	10.1	7.9	11.9

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#71

Phenanthrene

Concen: 54.824 ng

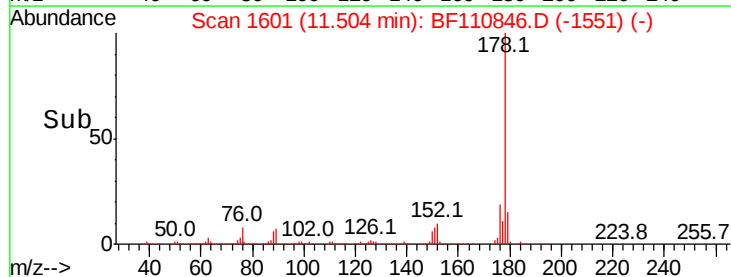
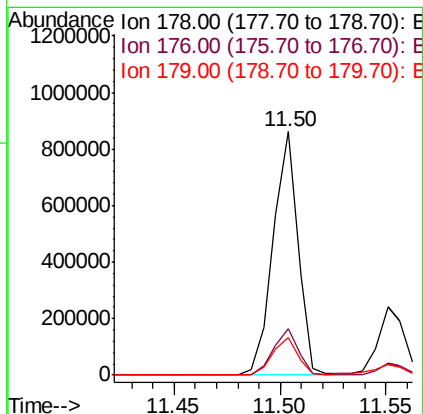
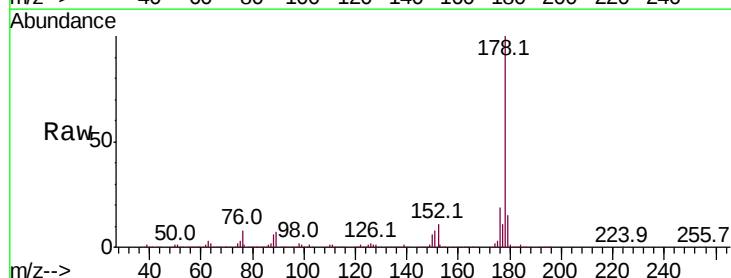
RT: 11.50 min Scan# 1601

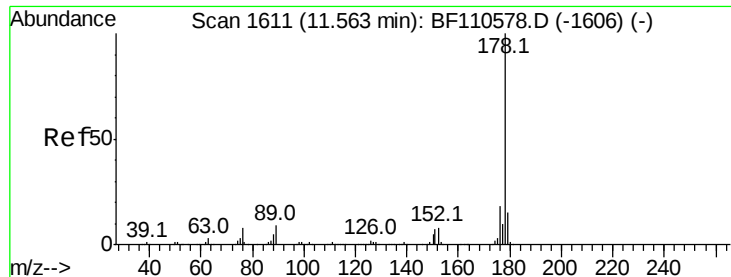
Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Tgt Ion:	178	Resp:	708081
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.5	23.3
179	15.5	12.5	18.7





#72

Anthracene

Concen: 15.715 ng

RT: 11.55 min Scan# 1609

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

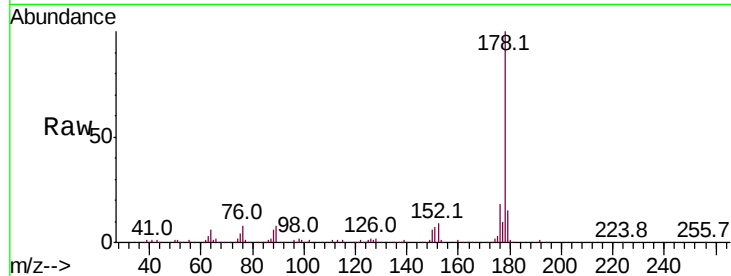
ClientSampleId :

MMTW-03(8-10)

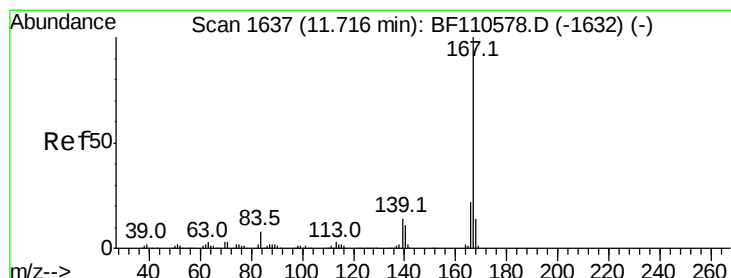
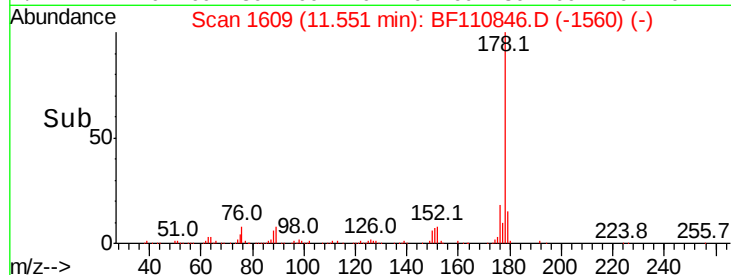
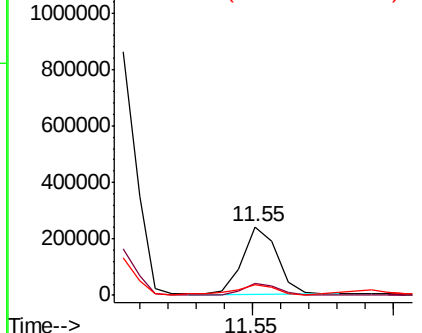
Tot Ion:178	Resp:	204739
Ion Ratio	Lower	Upper
178	100	
176	18.1	15.4 23.2
179	15.5	12.6 18.8

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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



#73

Carbazole

Concen: 4.048 ng

RT: 11.71 min Scan# 1636

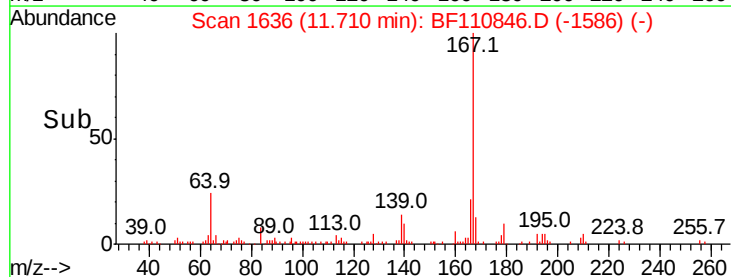
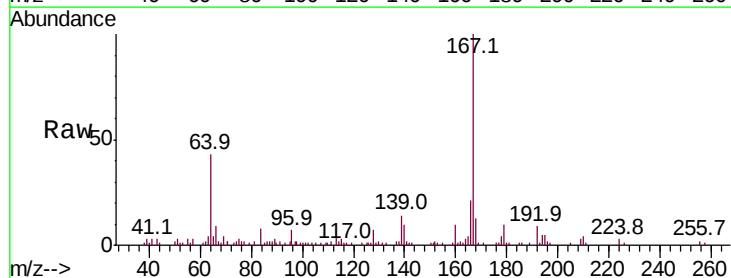
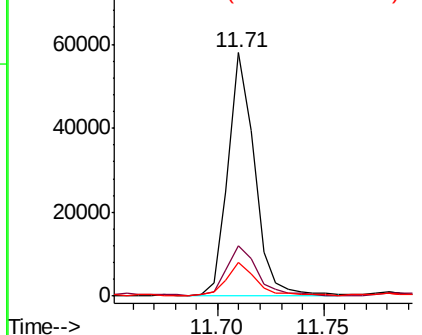
Delta R.T. -0.01 min

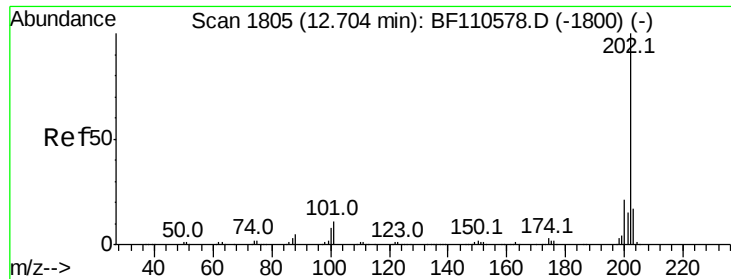
Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Tgt Ion:167	Resp:	50654
Ion Ratio	Lower	Upper
167	100	
166	20.7	17.4 26.0
139	14.0	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





#75

Fluoranthene

Concen: 61.337 ng

RT: 12.70 min Scan# 1805

Delta R.T. 0.00 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

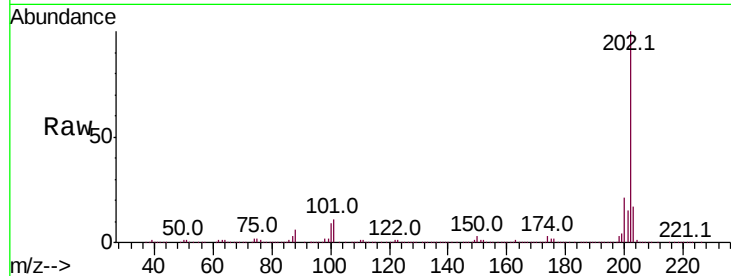
ClientSampleId :

MMTW-03(8-10)

Tot Ion	Ratio	Resp	Lower	Upper
202	100	794228		
101	11.4	0.0	31.4	
203	17.4	0.0	37.7	

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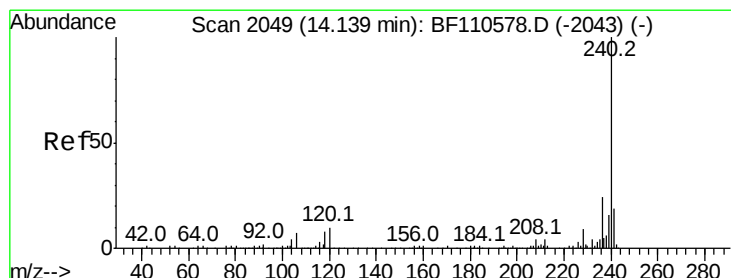
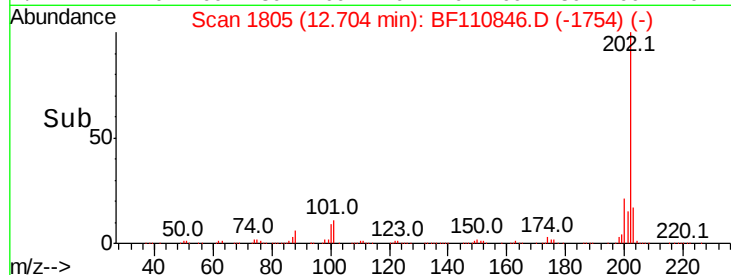
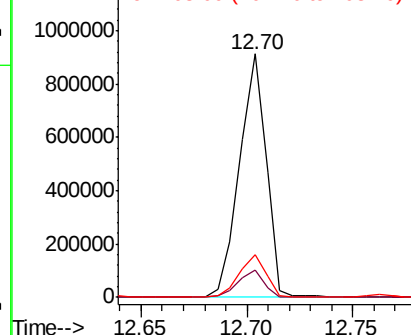


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

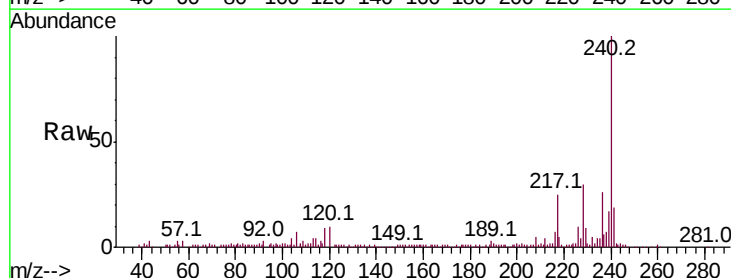
RT: 14.13 min Scan# 2048

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	149625		
120	10.0	8.3	12.5	
236	25.9	21.2	31.8	

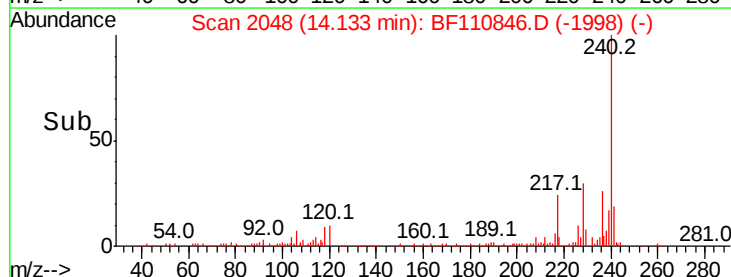
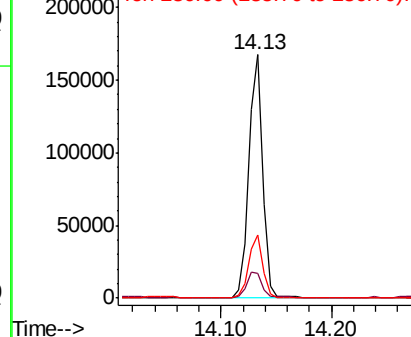


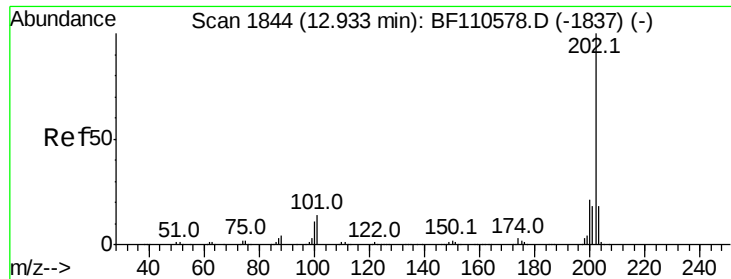
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 59.818 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

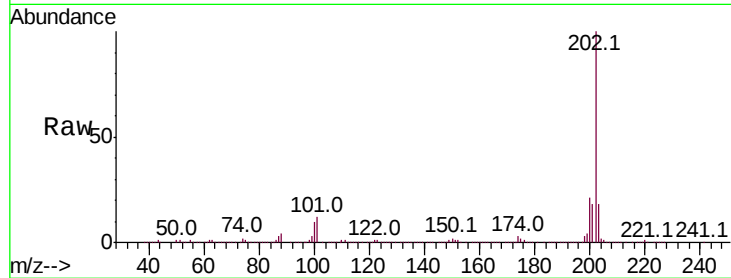
ClientSampleId :

MMTW-03(8-10)

Tot Ion:	202	Resp:	689144
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.8	26.6
203	17.9	14.2	21.4

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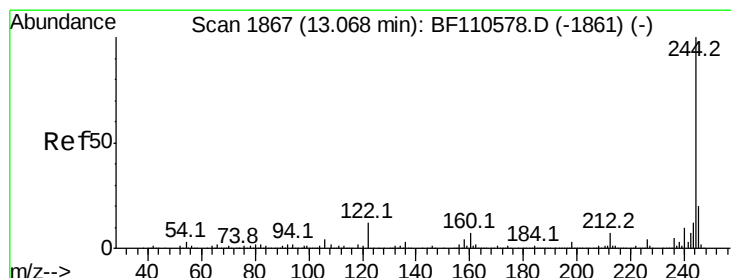
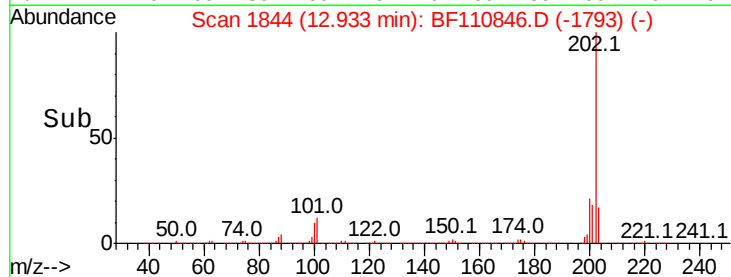
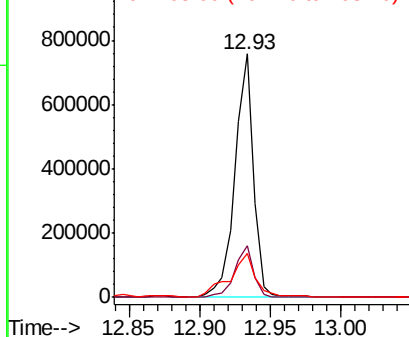


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 40.704 ng

RT: 13.06 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

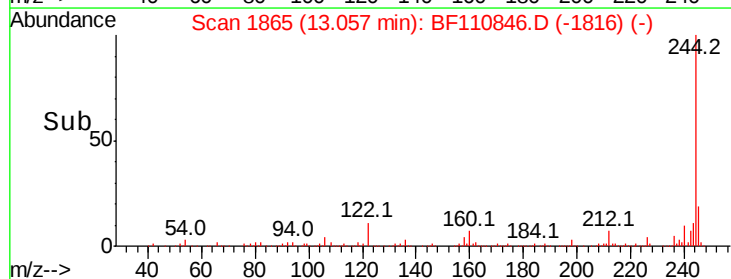
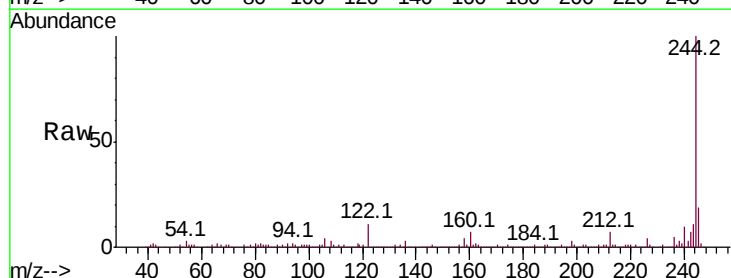
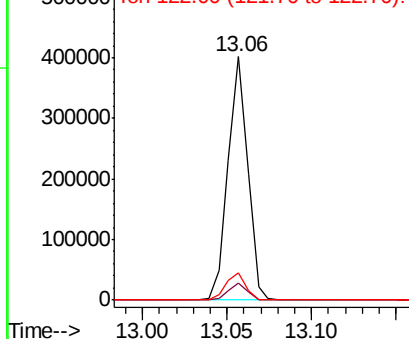
Tgt Ion:	244	Resp:	325208
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.8	8.8
122	11.0	8.7	13.1

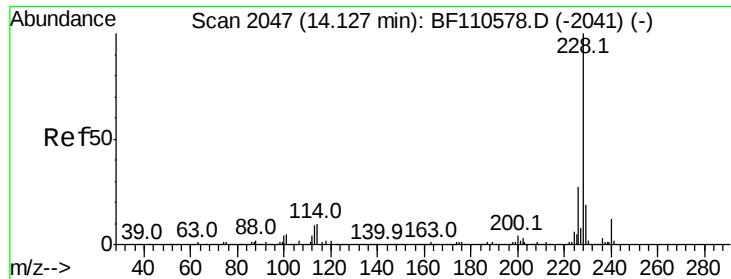
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 39.048 ng

RT: 14.12 min Scan# 2046

Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Instrument :

BNA_F

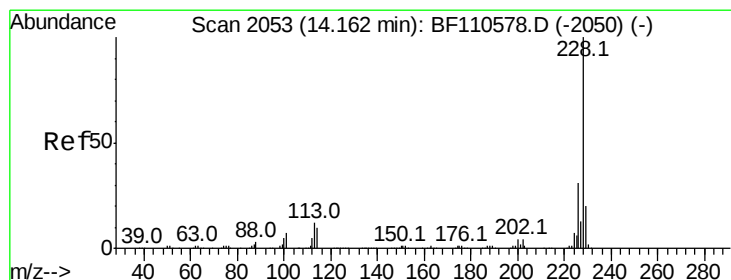
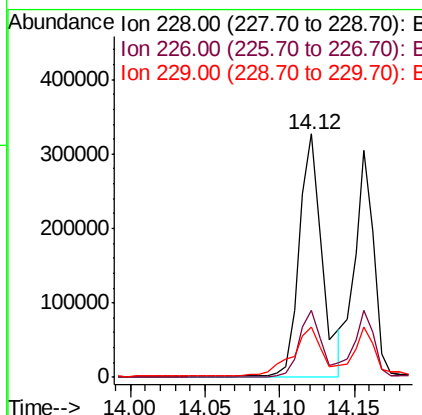
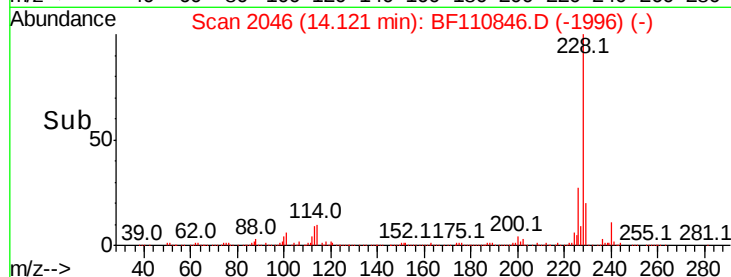
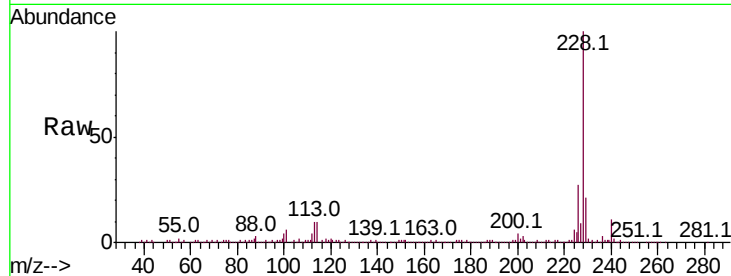
ClientSampleId :

MMTW-03(8-10)

Tot Ion:	228	Resp:	349216
Ion Ratio	Lower	Upper	
228	100		
226	27.4	22.1	33.1
229	20.5	15.6	23.4

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#83

Chrysene

Concen: 32.577 ng

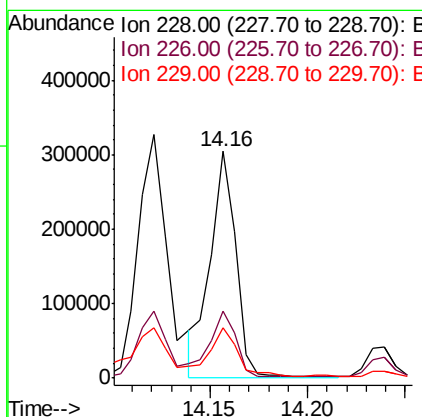
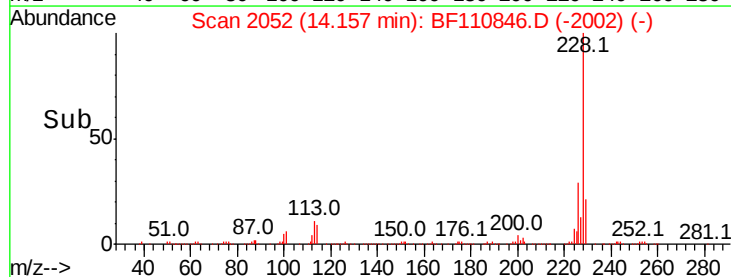
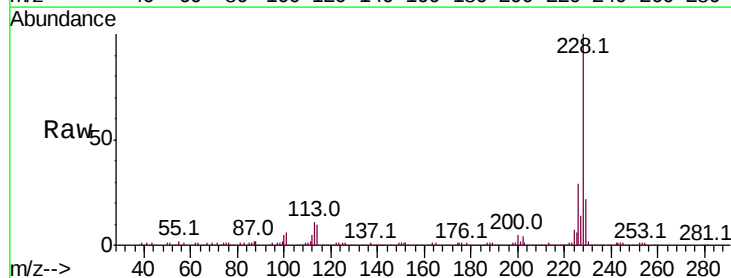
RT: 14.16 min Scan# 2052

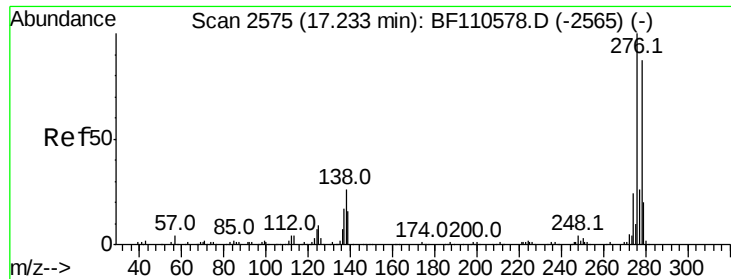
Delta R.T. -0.01 min

Lab File: BF110846.D

Acq: 19 Nov 2018 12:10

Tgt Ion:	228	Resp:	277563
Ion Ratio	Lower	Upper	
228	100		
226	29.4	24.7	37.1
229	22.0	15.9	23.9





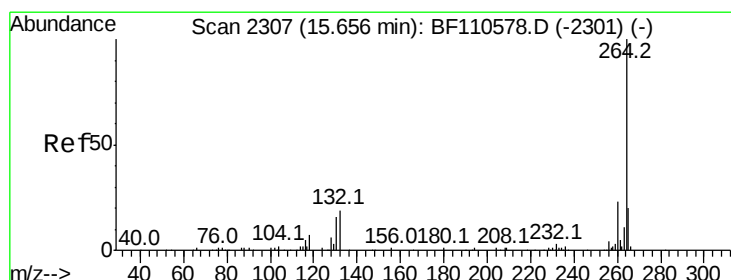
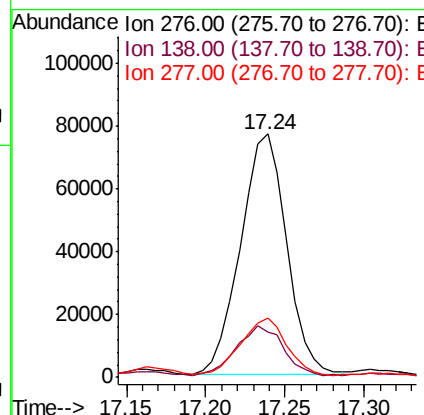
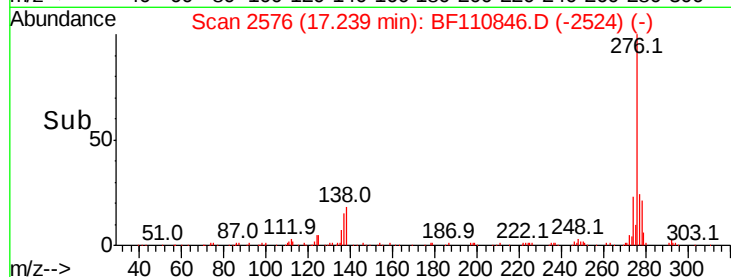
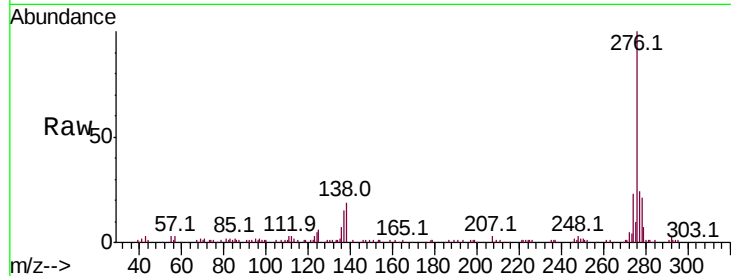
#86
Indeno(1,2,3-cd)pyrene
Concen: 25.199 ng
RT: 17.24 min Scan# 2576
Delta R.T. 0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.2	18.5	27.7
277	24.0	20.0	30.0

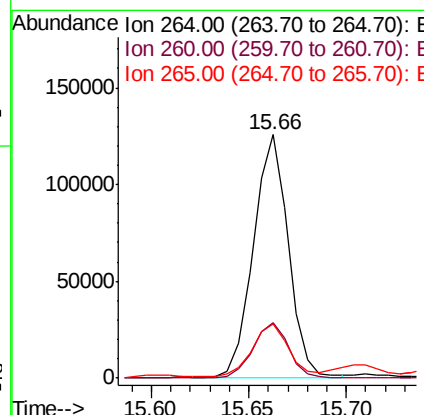
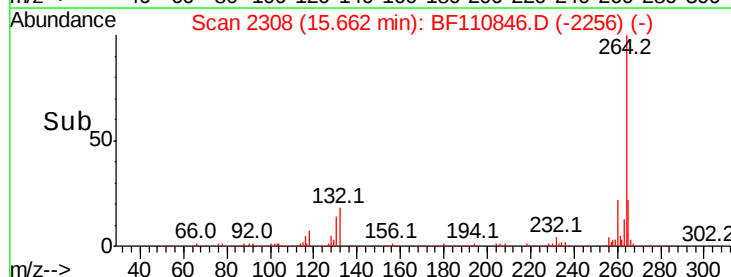
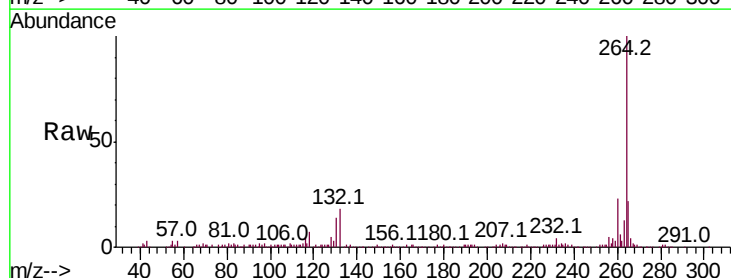
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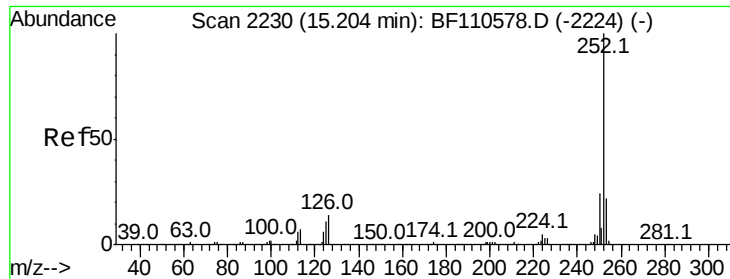
Sohil
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.66 min Scan# 2308
Delta R.T. 0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.7	28.1
265	22.1	16.7	25.1





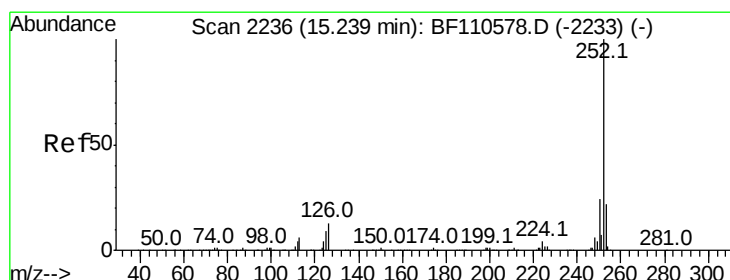
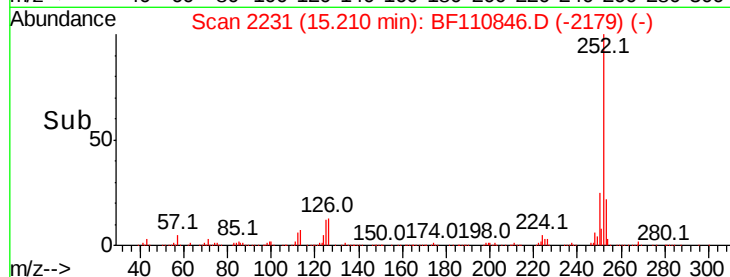
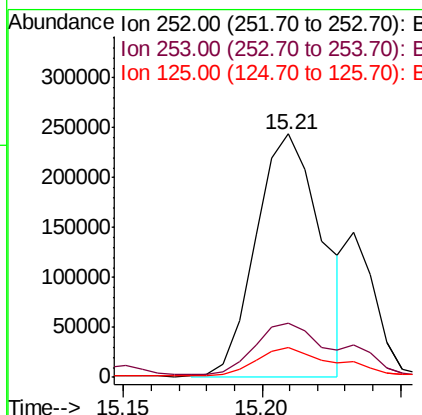
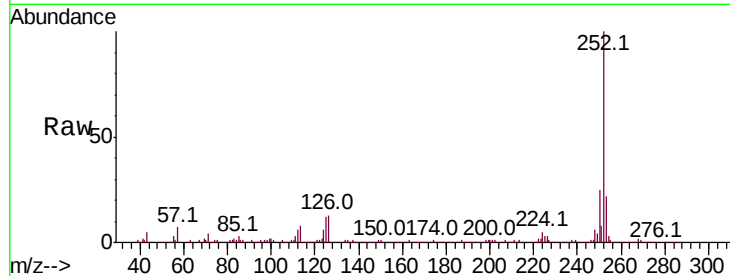
#88
Benzo(b)fluoranthene
Concen: 44.030 ng m
RT: 15.21 min Scan# 2231
Delta R.T. 0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.2	25.8
125	12.2	8.2	12.4

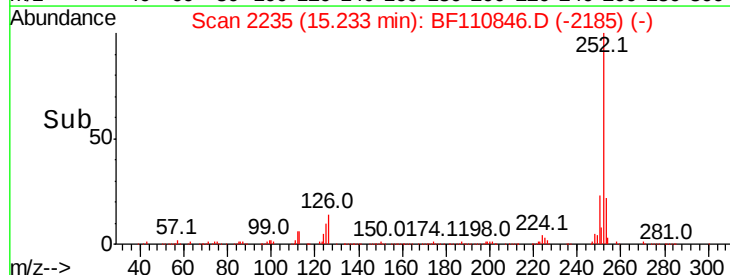
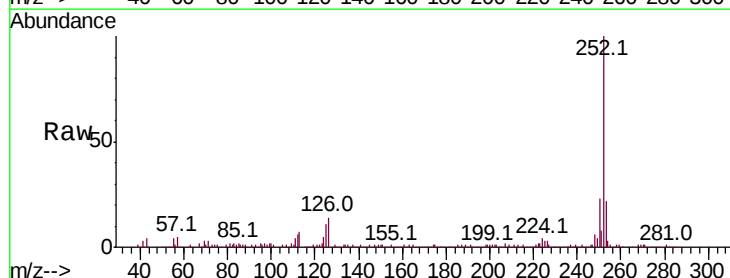
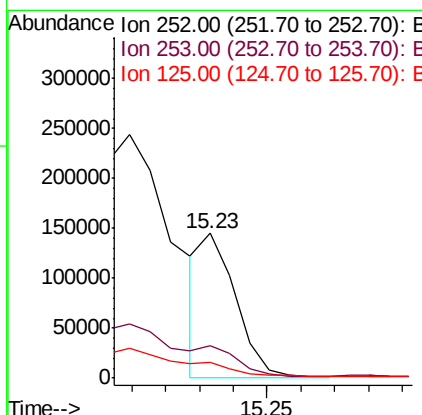
Manual Integrations
APPROVED

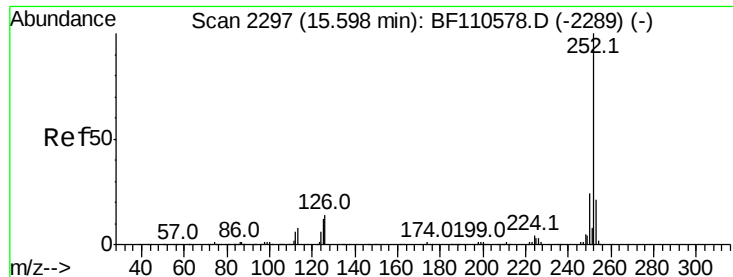
Sohil
11/20/2018 11:07:17 AM



#89
Benzo(k)fluoranthene
Concen: 11.619 ng m
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.2	25.8
125	11.1	7.4	11.0#





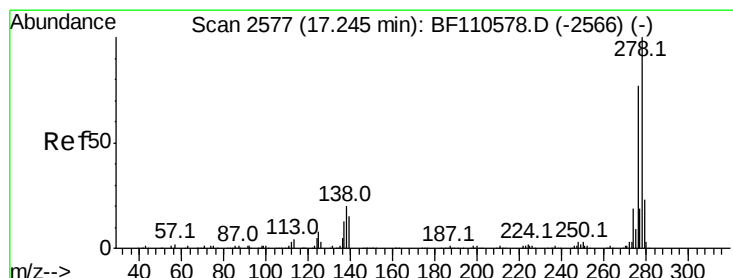
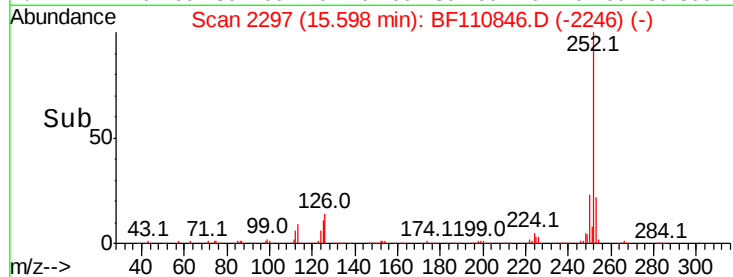
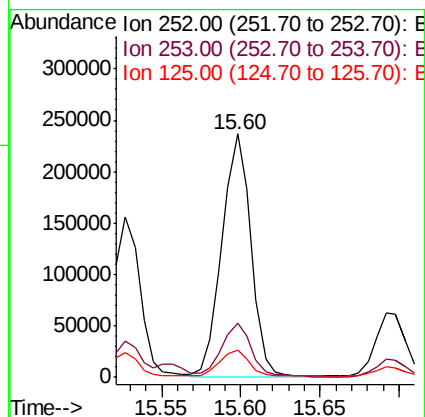
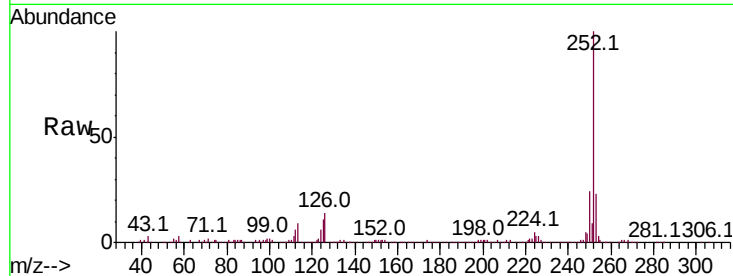
#90
Benzo(a)pyrene
Concen: 35.745 ng
RT: 15.60 min Scan# 2297
Delta R.T. 0.00 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Instrument :
BNA_F
ClientSampleId :
MMTW-03(8-10)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.4
125	11.3	9.0	13.6

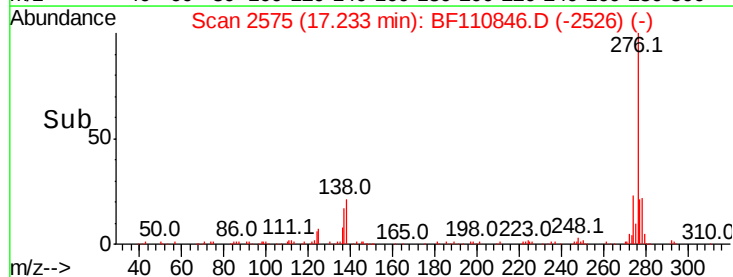
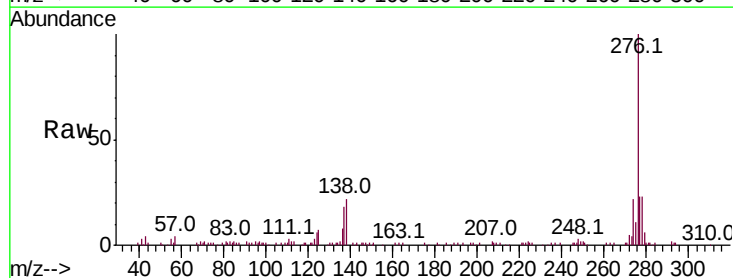
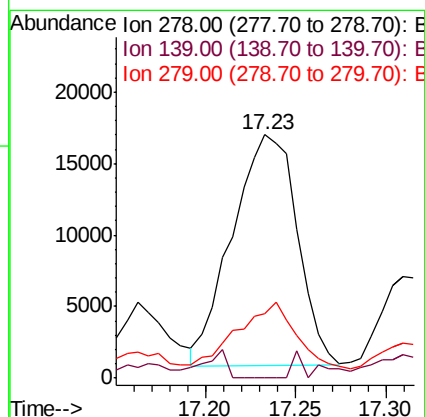
Manual Integrations
APPROVED

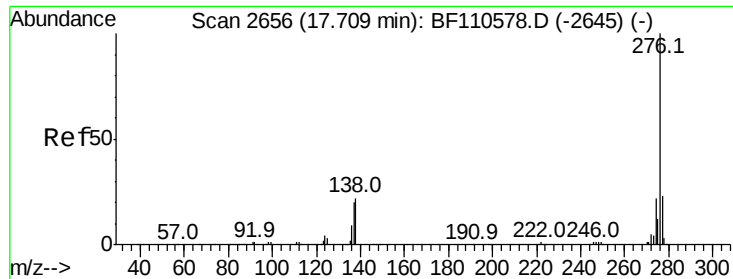
Sohil
11/20/2018 11:07:17 AM



#91
Dibenzo(a,h)anthracene
Concen: 5.681 ng m
RT: 17.23 min Scan# 2575
Delta R.T. -0.01 min
Lab File: BF110846.D
Acq: 19 Nov 2018 12:10

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.7	19.1#
279	26.2	19.0	28.4





#92
 Benzo(a,h,i)perylene
 Concen: 20.169 ng
 RT: 17.72 min Scan# 2658
 Delta R.T. 0.01 min
 Lab File: BF110846.D
 Acq: 19 Nov 2018 12:10

Instrument :
 BNA_F
 ClientSampleId :
 MMTW-03(8-10)

Tot Ion:	276	Resp:	141552
Ion Ratio	Lower	Upper	
276	100		
277	25.6	18.8	28.2
138	21.7	16.0	24.0

Manual Integrations
 APPROVED

Sohil
 11/20/2018 11:07:17 AM

