

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\
 Data File : BF109752.D
 Acq On : 10 Oct 2018 19:48
 Operator : JU/SJ
 Sample : J5366-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR200035

Manual Integrations
 APPROVED

Sohil
 10/11/2018 2:02:44 PM

Quant Time: Oct 11 09:49:31 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 08 16:02:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	80117	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	335730	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	166150	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	339184	20.00	ng	0.00
75) Chrysene-d12	13.83	240	293568	20.00	ng	0.00
86) Perylene-d12	15.23	264	230997	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	611803	135.55	ng	0.00
7) Phenol-d6	6.35	99	832690	138.10	ng	-0.01
23) Nitrobenzene-d5	7.26	82	554387	91.02	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	240670	132.94	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	1040979	86.29	ng	0.00
78) Terphenyl-d14	12.79	244	1122065	73.99	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.36	94	24944	3.608	ng	94
31) Naphthalene	8.00	128	96605	6.222	ng	99
37) 2-Methylnaphthalene	8.69	142	110831	10.897	ng	100
45) 1,1'-Biphenyl	9.15	154	50095	3.375	ng	97
49) Dimethylphthalate	9.45	163	127963	10.501	ng	100
51) Acenaphthene	9.75	154	161302	16.784	ng	98
54) Dibenzofuran	9.93	168	228173	15.839	ng	96
57) Fluorene	10.27	166	212480	19.751	ng	99
70) Phenanthrene	11.23	178	1091470	64.302	ng	99
71) Anthracene	11.28	178	133954m	7.634	ng	
72) Carbazole	11.44	167	131093	7.703	ng	99
74) Fluoranthene	12.41	202	1055995	59.551	ng	99
77) Pyrene	12.64	202	742986	34.543	ng	99
80) Benzo(a)anthracene	13.82	228	135945	8.392	ng	98
82) Chrysene	13.85	228	203588	11.964	ng	98
87) Benzo(b)fluoranthene	14.83	252	71241m	5.581	ng	
88) Benzo(k)fluoranthene	14.84	252	45037m	3.511	ng	
89) Benzo(a)pyrene	15.17	252	28718	2.479	ng	98

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

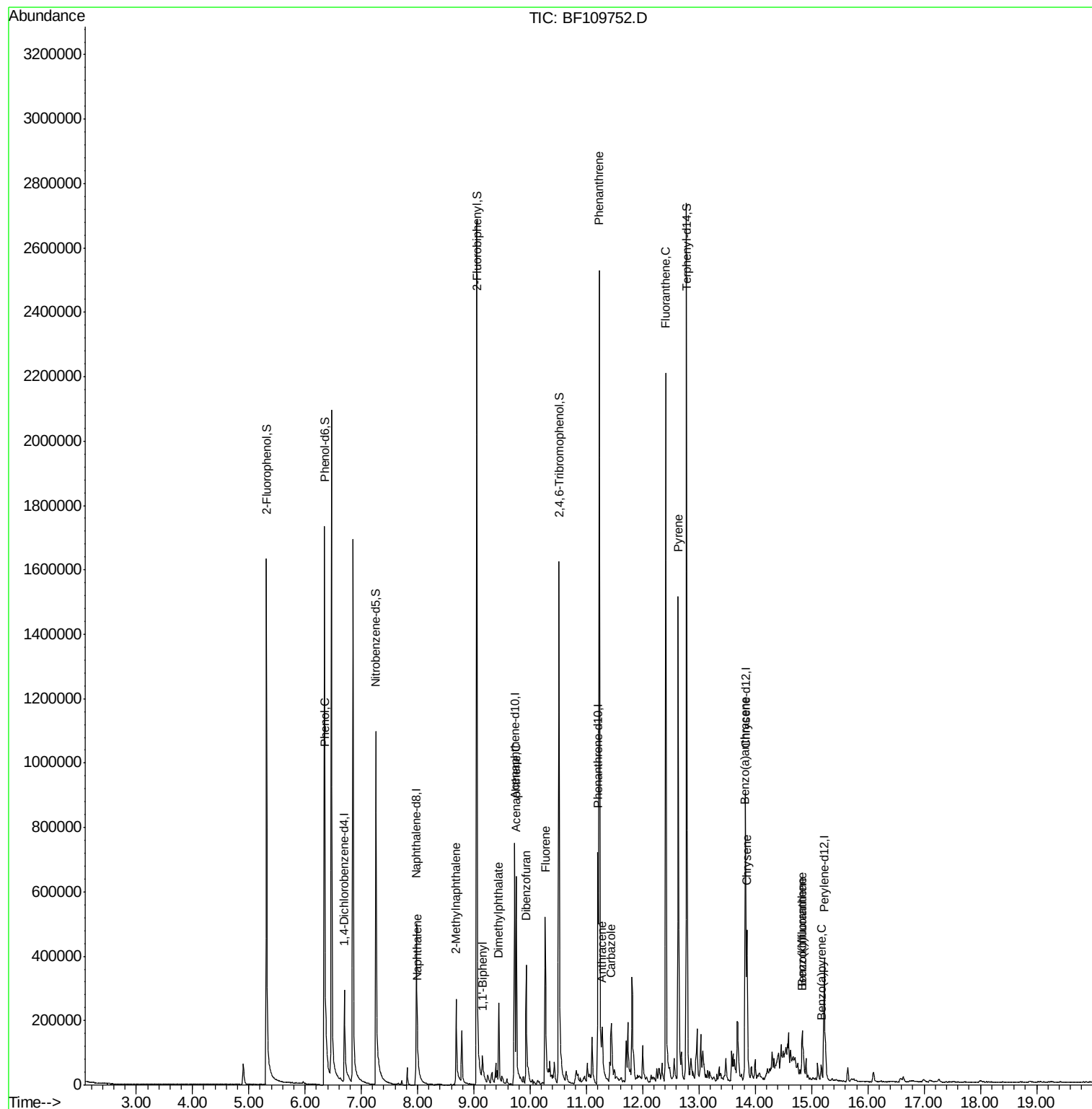
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101018\
Data File : BF109752.D
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ALS Vial : 16 Sample Multiplier: 1

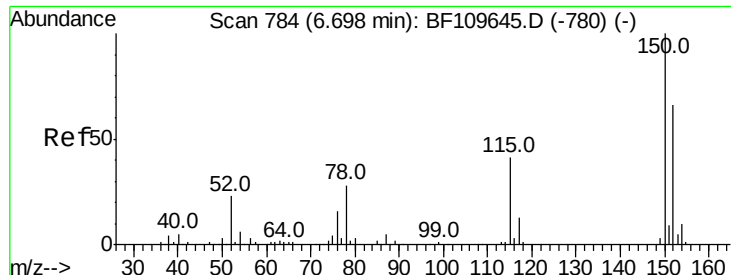
Instrument :
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#1

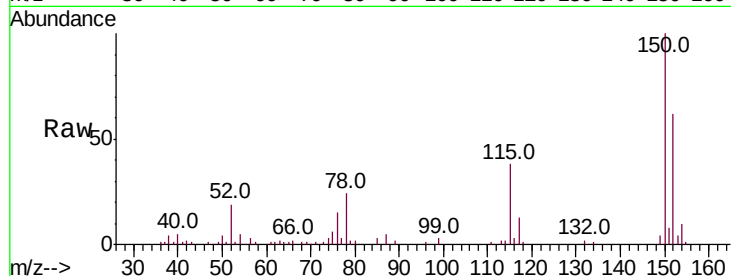
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	122.7	184.1
115	61.5	49.1	73.7

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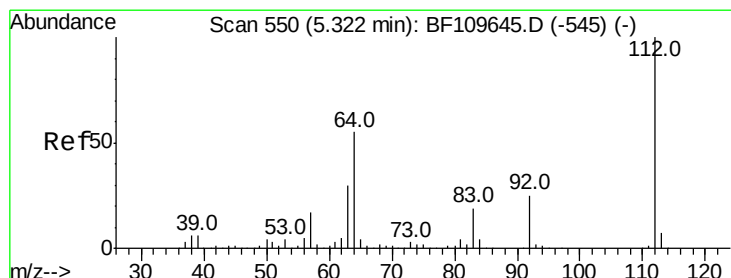
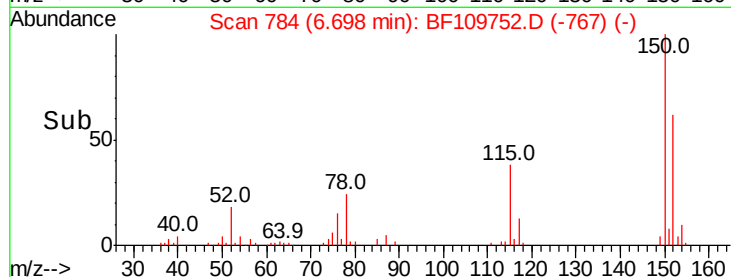
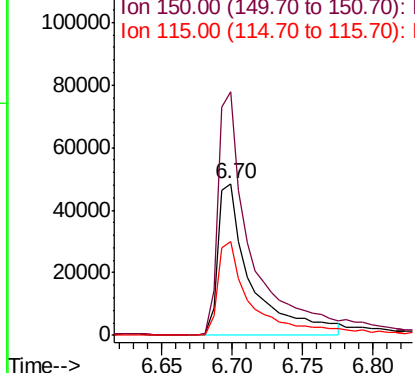


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

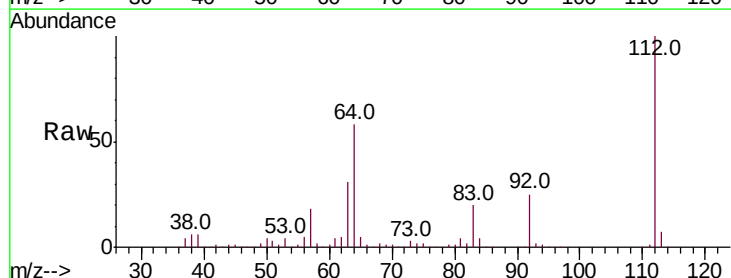
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 135.548 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.7	44.1	66.1
63	31.4	23.7	35.5

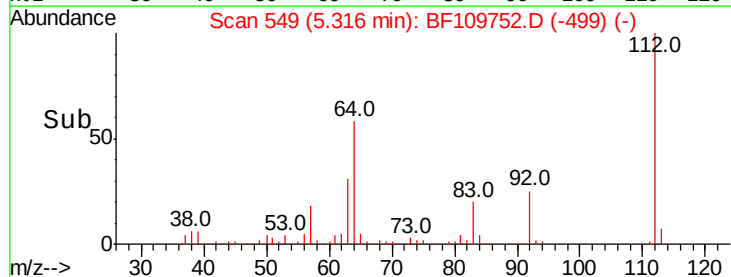
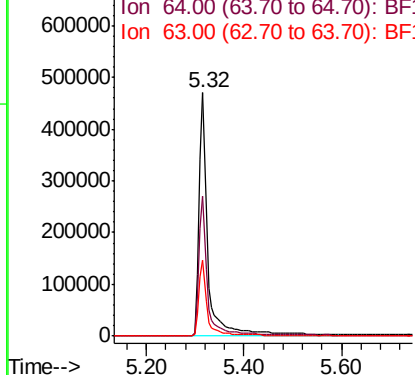


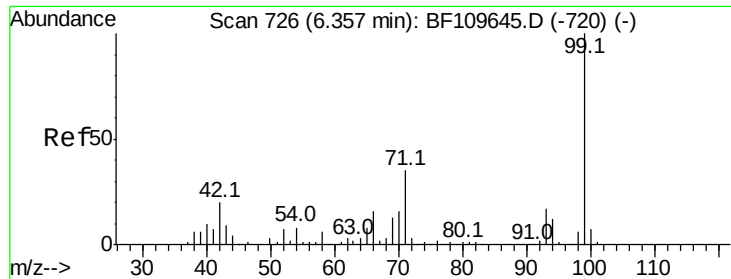
Abundance

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: 138.100 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF109752.D

Acq: 10 Oct 2018 19:48

Instrument :

BNA_F

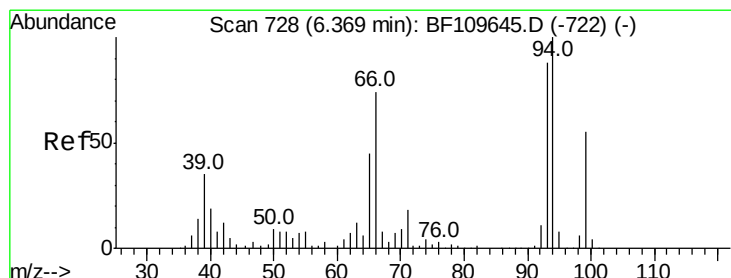
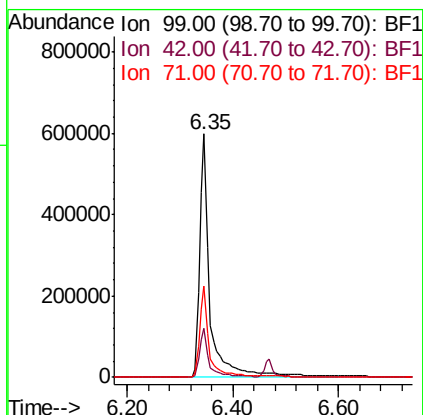
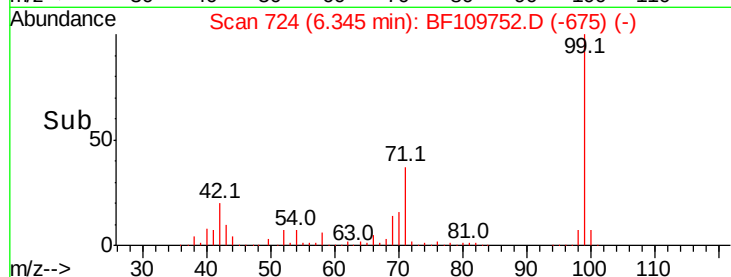
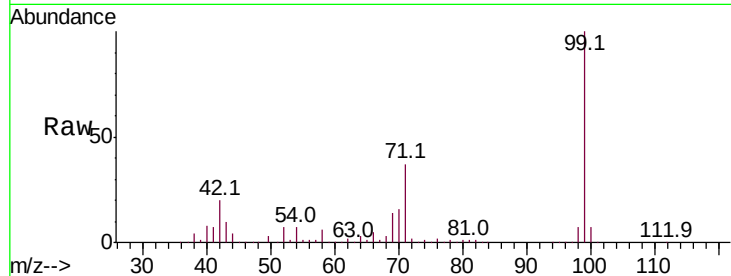
ClientSampleId :

RBR200035

Tot Ion:	99	Resp:	832690
Ion	Ratio	Lower	Upper
99	100		
42	20.1	15.8	23.6
71	37.4	28.0	42.0

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#10

Phenol

Concen: 3.608 ng

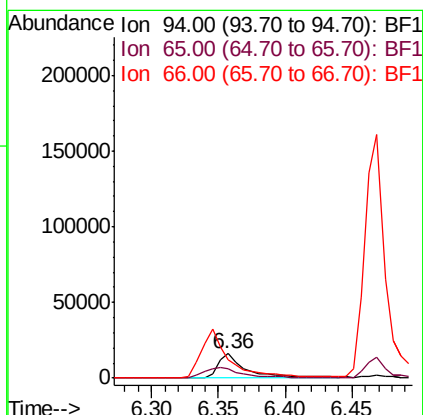
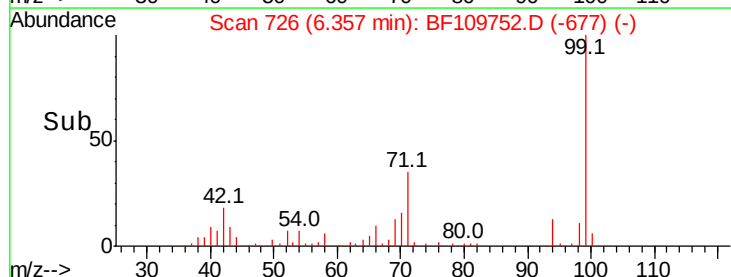
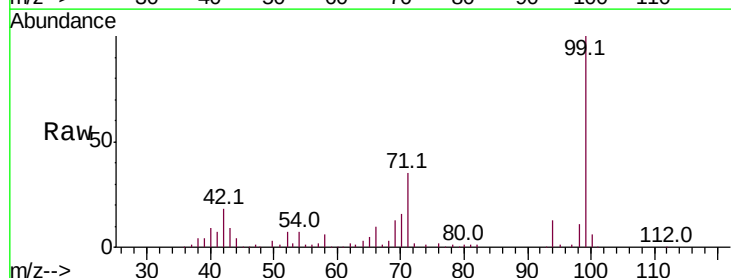
RT: 6.36 min Scan# 726

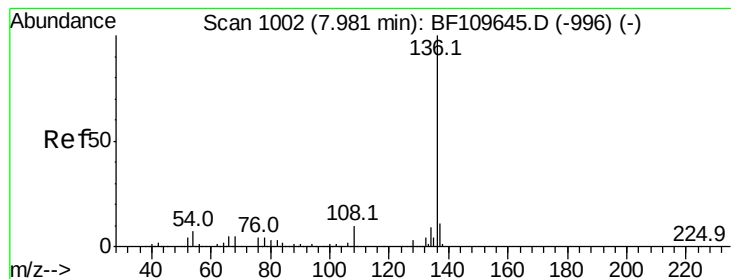
Delta R.T. -0.01 min

Lab File: BF109752.D

Acq: 10 Oct 2018 19:48

Tgt Ion:	94	Resp:	24944
Ion	Ratio	Lower	Upper
94	100		
65	37.9	25.3	65.3
66	76.7	54.5	94.5





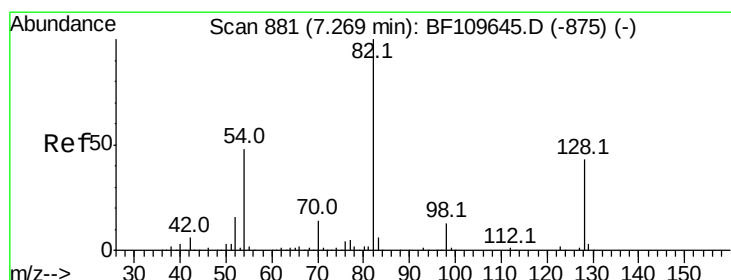
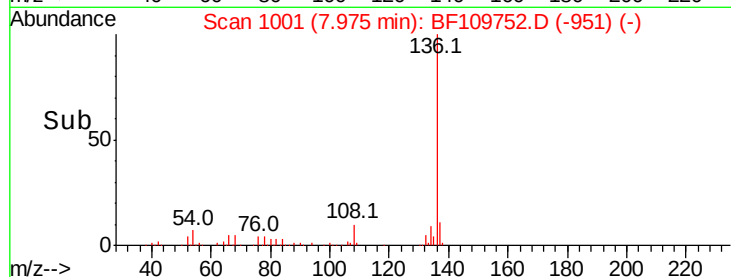
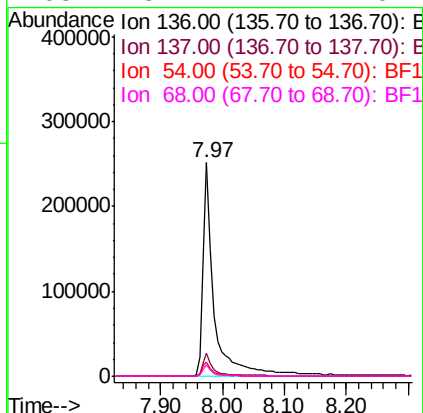
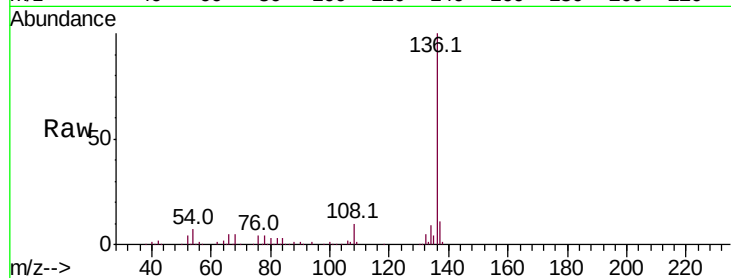
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1001
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.8	13.2	
54	6.8	5.4	8.2	
68	5.2	4.2	6.2	

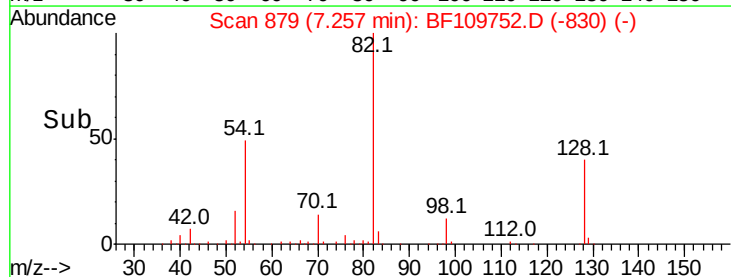
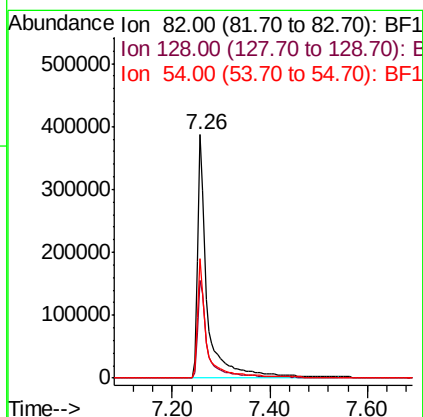
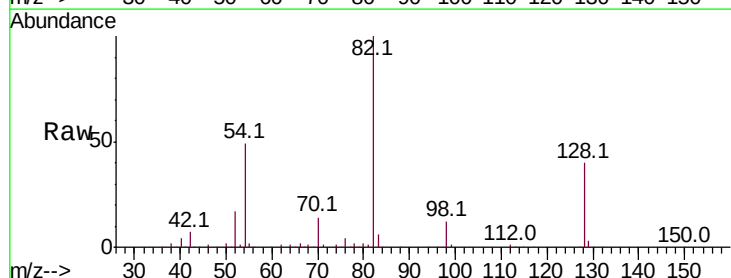
Manual Integrations
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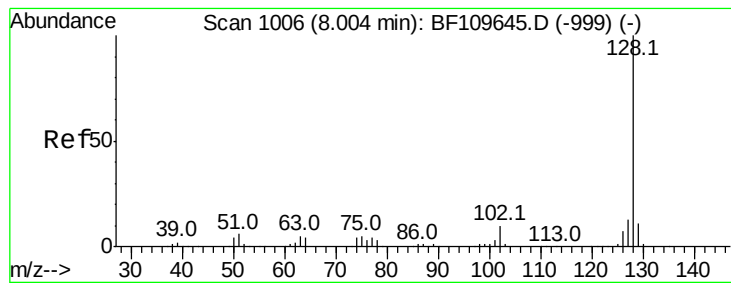
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#23
Nitrobenzene-d5
Concen: 91.025 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	40.2	34.2	51.2	
54	49.1	38.6	58.0	





#31

Naphthalene

Concen: 6.222 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF109752.D

Acq: 10 Oct 2018 19:48

Instrument :

BNA_F

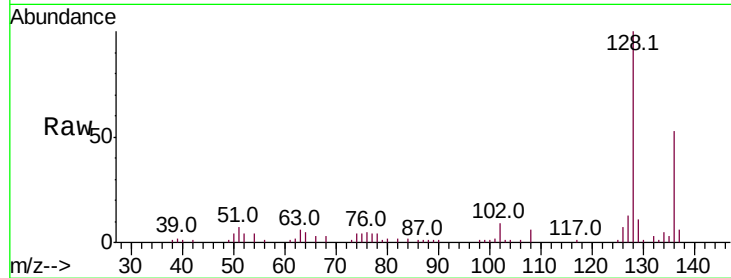
ClientSampleId :

RBR200035

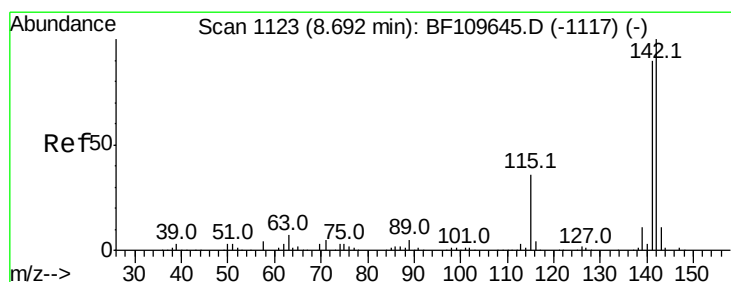
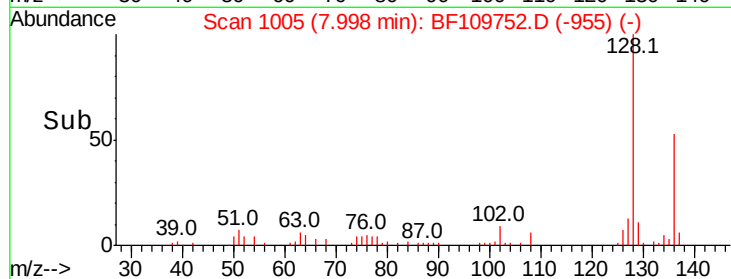
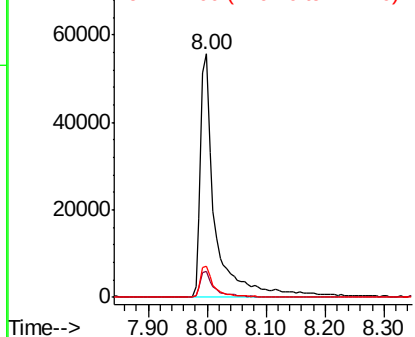
Tot Ion:	128	Resp:	96605
Ion Ratio	Lower	Upper	
128	100		
129	10.6	8.8	13.2
127	13.0	10.8	16.2

Manual Integrations
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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: 10.897 ng

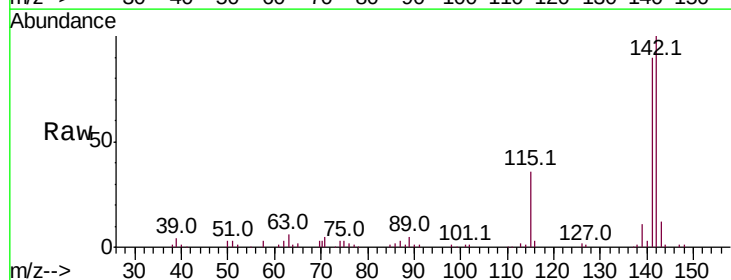
RT: 8.69 min Scan# 1122

Delta R.T. -0.01 min

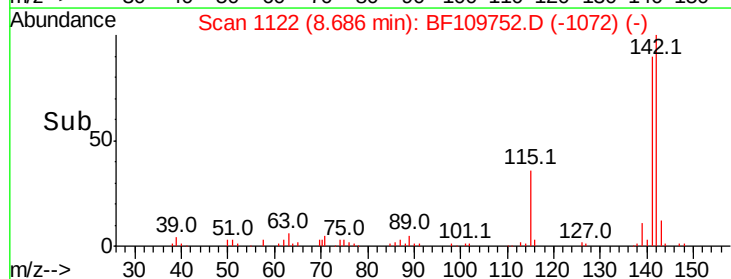
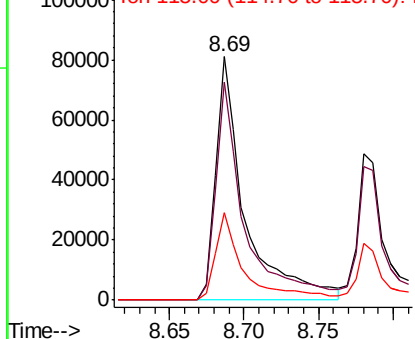
Lab File: BF109752.D

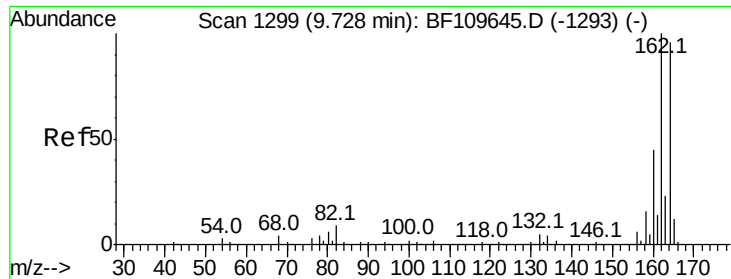
Acq: 10 Oct 2018 19:48

Tgt Ion:	142	Resp:	110831
Ion Ratio	Lower	Upper	
142	100		
141	89.7	71.4	107.2
115	36.1	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





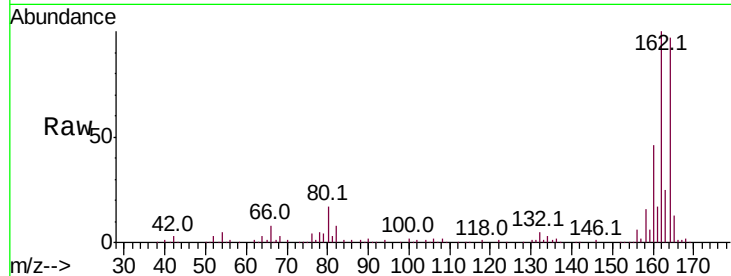
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF109752.D
 Acq: 10 Oct 2018 19:48

Instrument :
 BNA_F
 ClientSampleId :
 RBR200035

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.6	83.0	124.6
160	46.9	37.0	55.6

Manual Integrations
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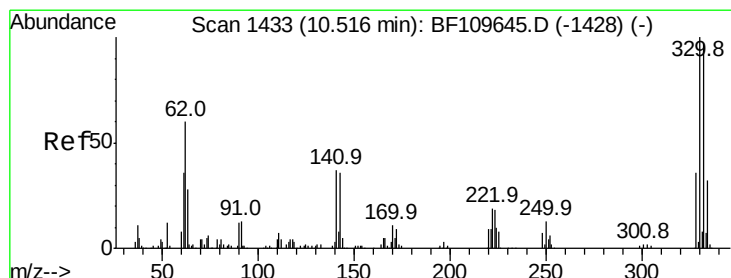
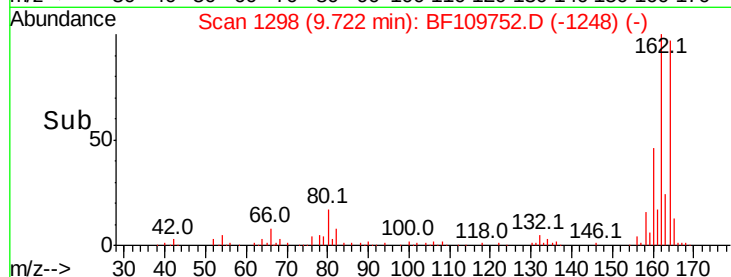
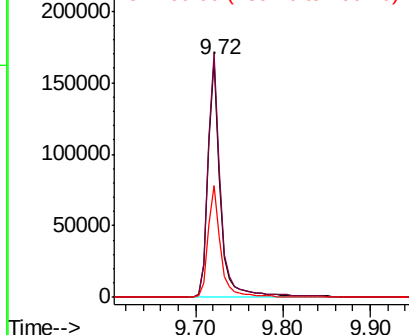


Abundance

Ion 164.00 (163.70 to 164.70): E

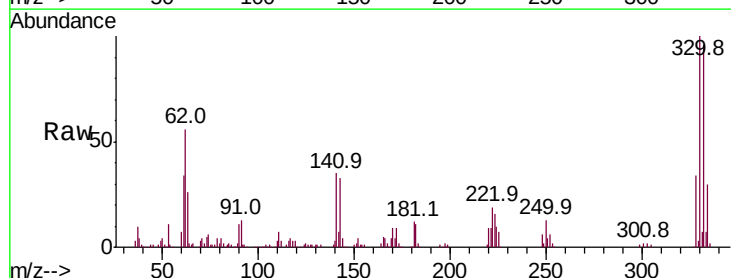
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41
 2,4,6-Tribromophenol
 Concen: 132.939 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF109752.D
 Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.1	115.7
141	34.8	27.0	40.4

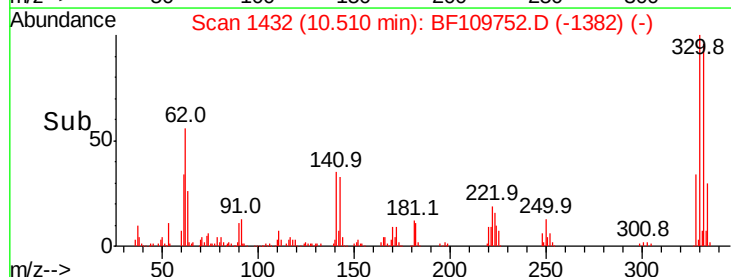
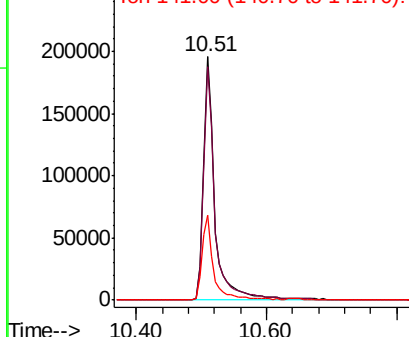


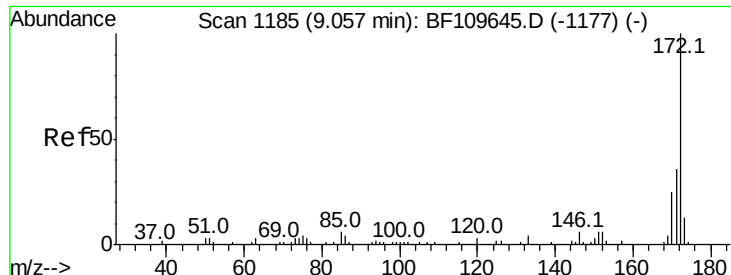
Abundance

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





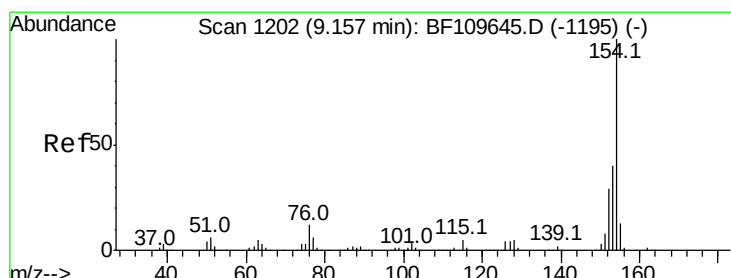
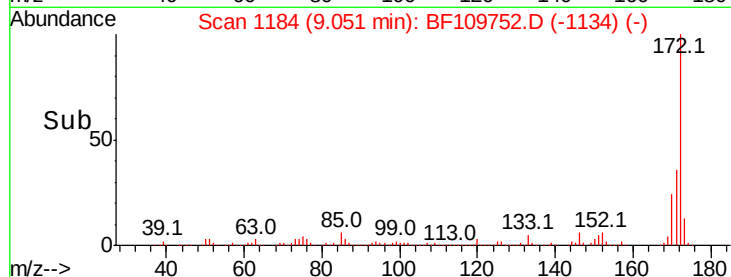
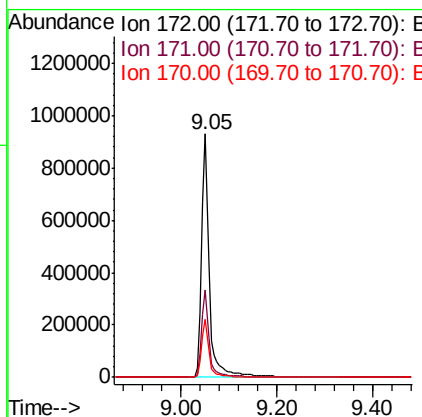
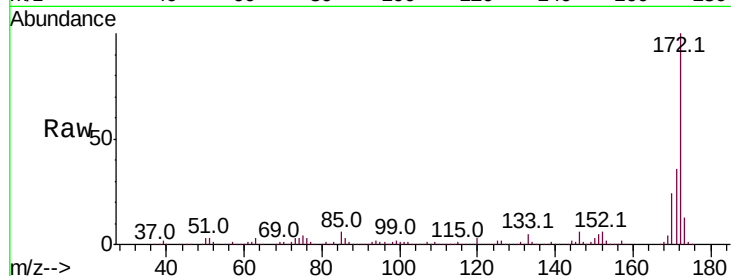
#44
2-Fluorobiphenyl
Concen: 86.289 ng
RT: 9.05 min Scan# 1184
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.0	19.7	29.5

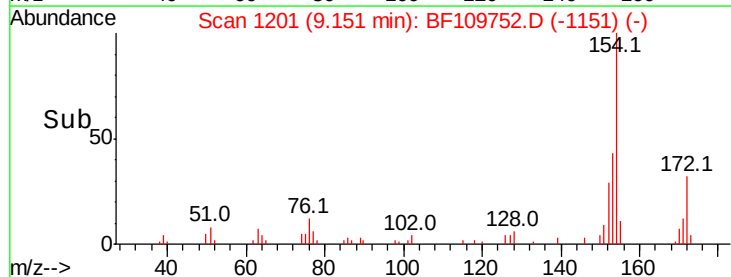
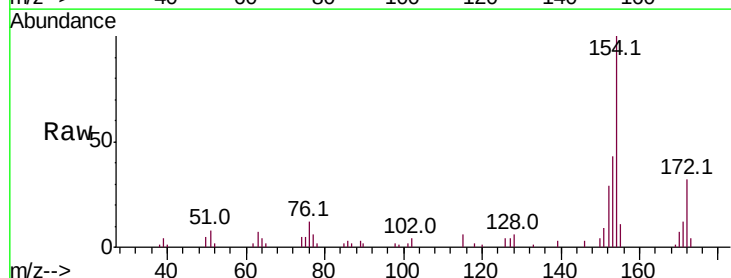
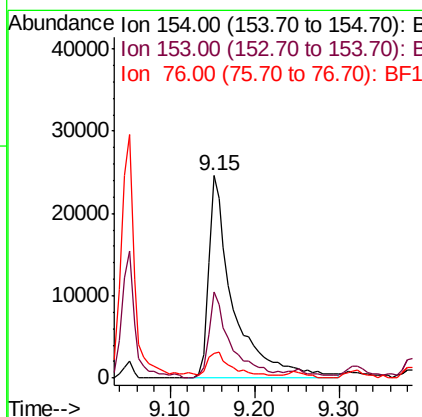
Manual Integrations
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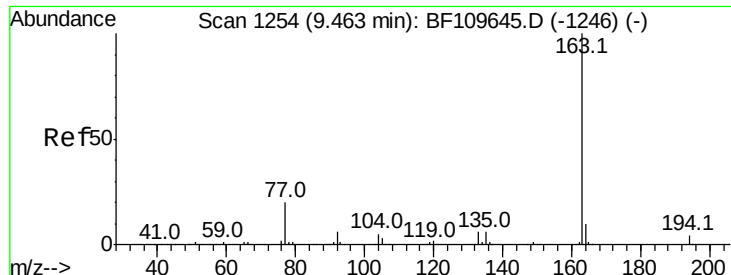
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#45
1,1'-Biphenyl
Concen: 3.375 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.6	20.4	60.4
76	12.1	0.0	31.9





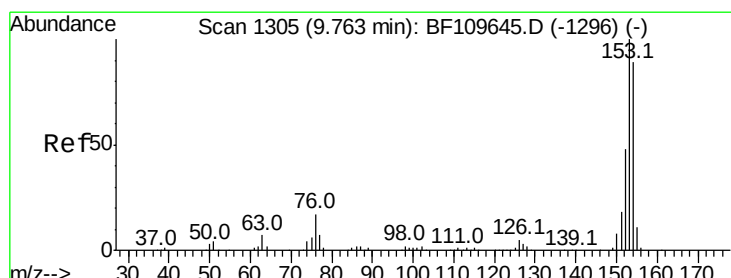
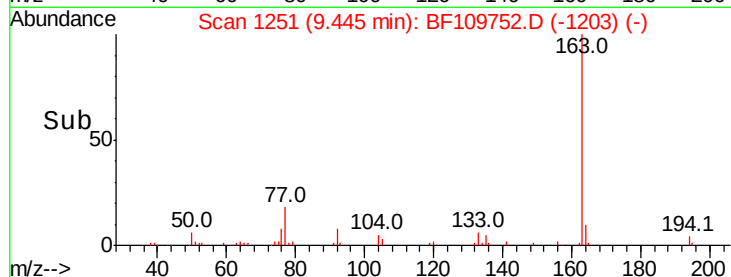
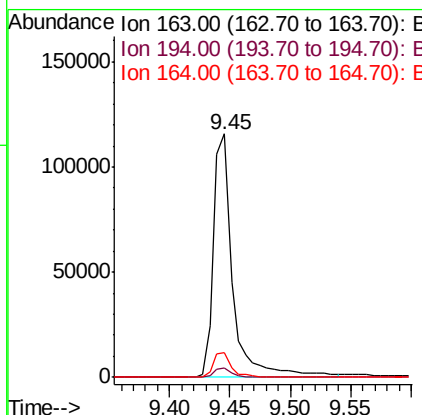
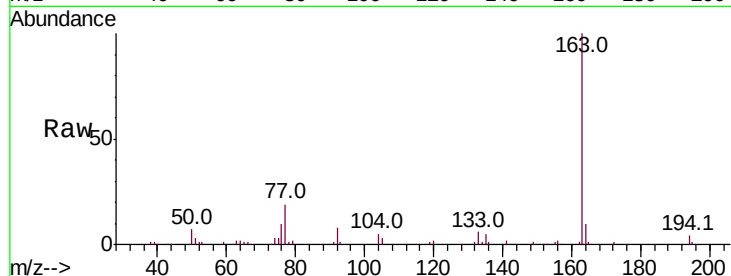
#49
Dimethylphthalate
Concen: 10.501 ng
RT: 9.45 min Scan# 1251
Delta R.T. -0.02 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Resp	Lower	Upper
163	100	127963		
194	3.9		3.2	4.8
164	10.0		8.1	12.1

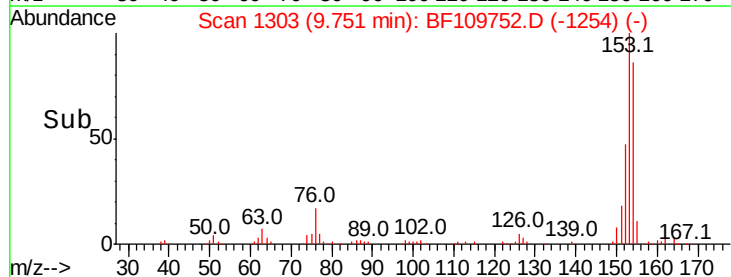
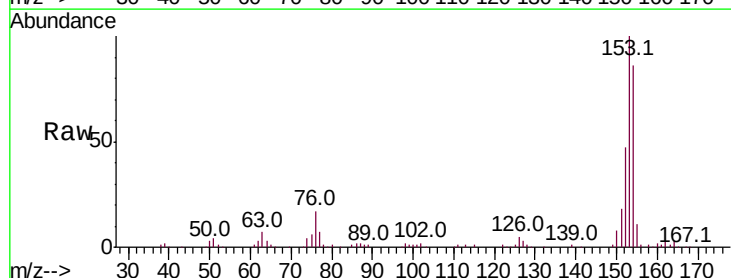
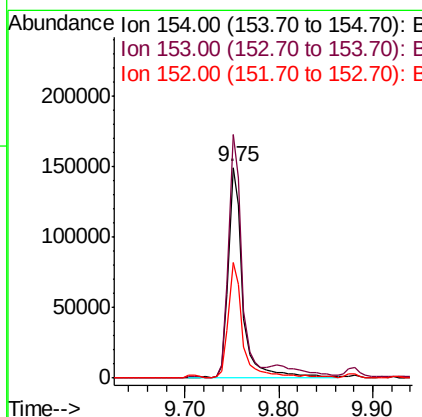
Manual Integrations
APPROVED

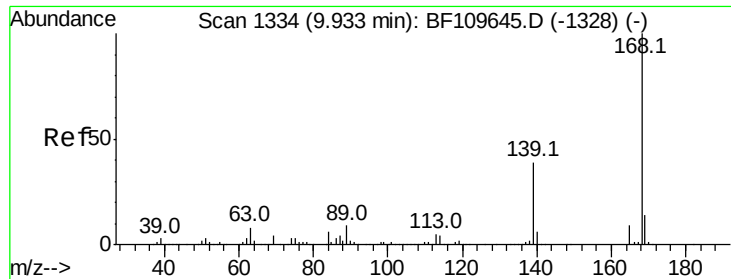
Sohil
10/11/2018 2:02:44 PM



#51
Acenaphthene
Concen: 16.784 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	161302		
153	115.8		90.1	135.1
152	54.8		43.4	65.2





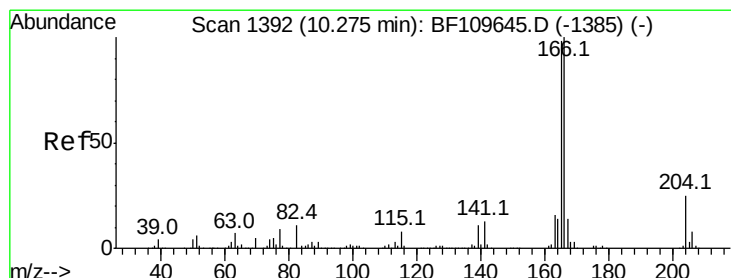
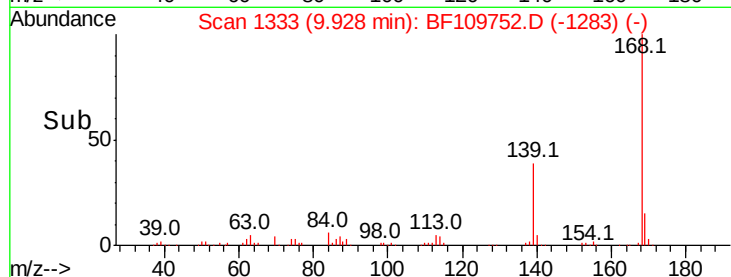
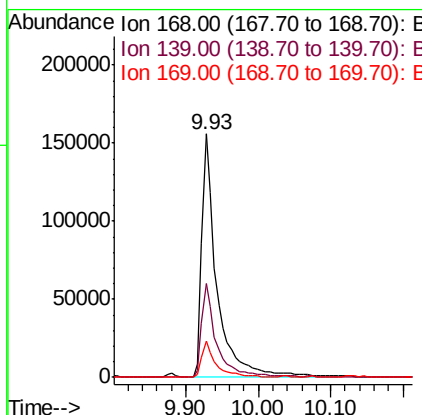
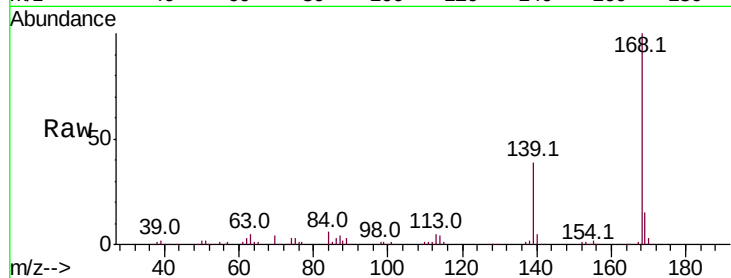
#54
Dibenzenofuran
Concen: 15.839 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.6	33.0	49.6
169	14.7	11.3	16.9

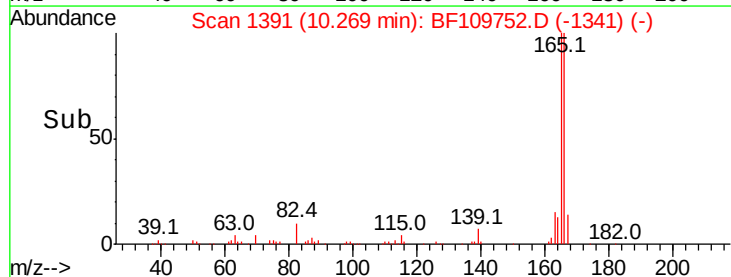
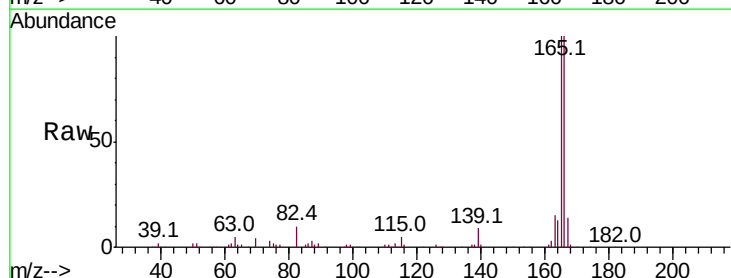
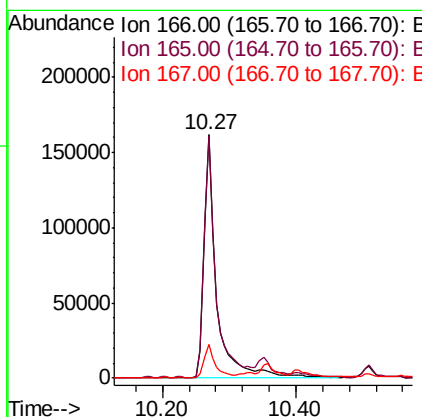
Manual Integrations
APPROVED

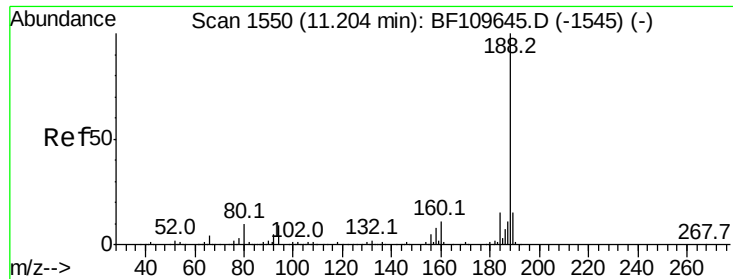
Sohil
10/11/2018 2:02:44 PM



#57
Fluorene
Concen: 19.751 ng
RT: 10.27 min Scan# 1391
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	78.6	117.8
167	13.8	10.8	16.2





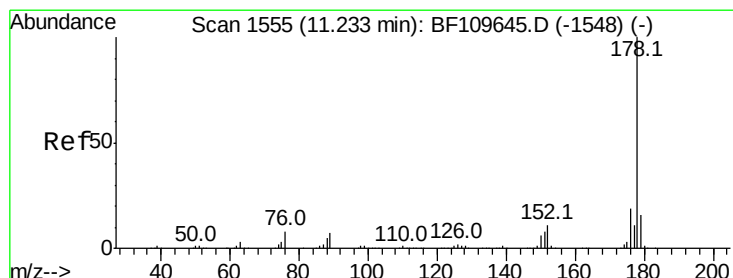
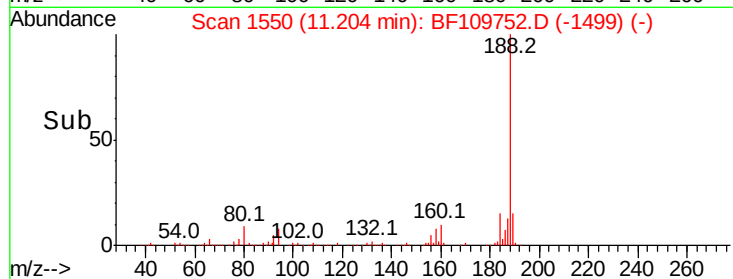
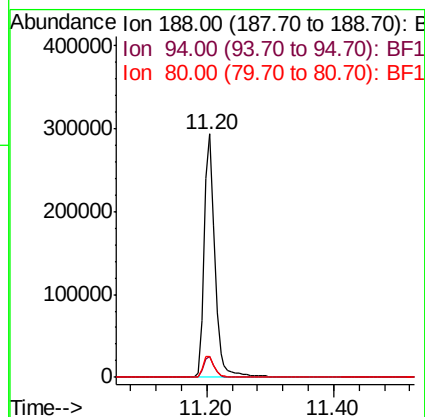
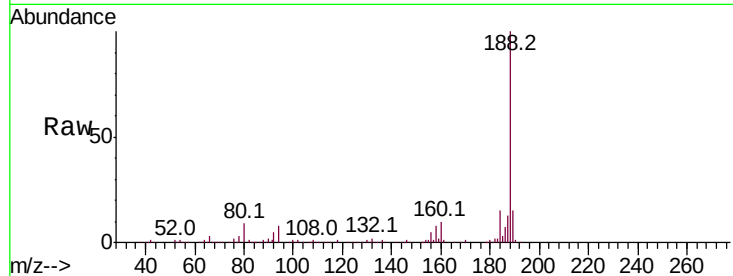
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1550
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	8.4	7.2	10.8	
80	8.8	7.9	11.9	

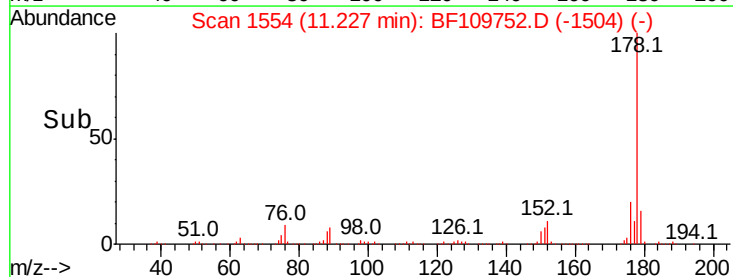
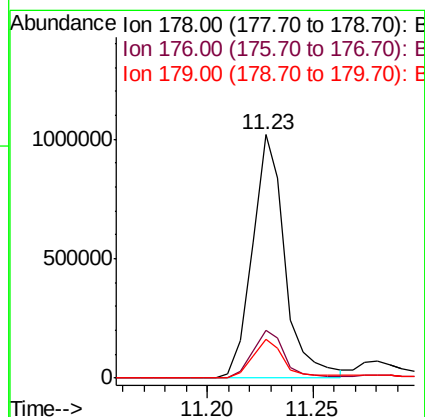
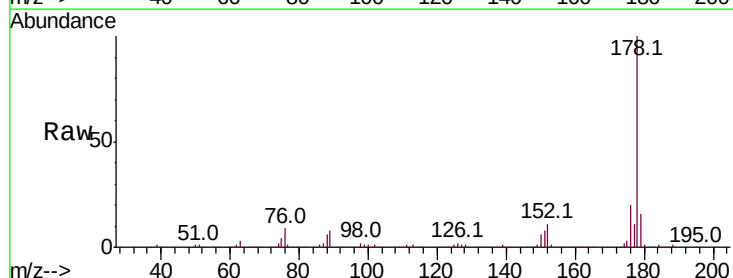
Manual Integrations
APPROVED

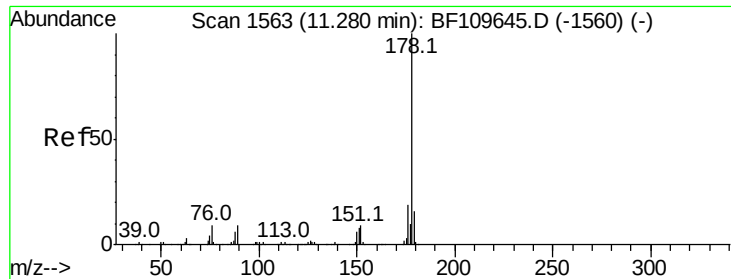
Sohil
10/11/2018 2:02:44 PM



#70
Phenanthrene
Concen: 64.302 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.6	15.5	23.3	
179	16.1	12.5	18.7	





#71

Anthracene

Concen: 7.634 ng

RT: 11.28 min Scan# 1563

Delta R.T. 0.00 min

Lab File: BF109752.D

Acq: 10 Oct 2018 19:48

Instrument :

BNA_F

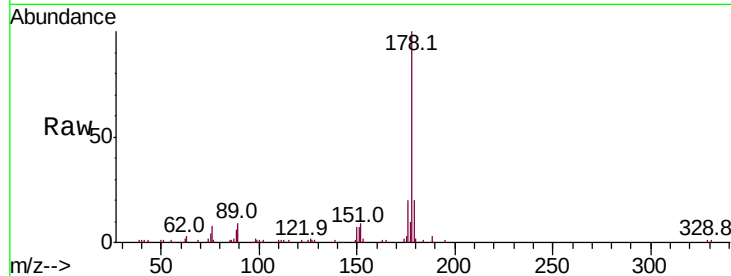
ClientSampleId :

RBR200035

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	20.0	12.6	18.8

Manual Integrations
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Sohil
10/11/2018 2:02:44 PM

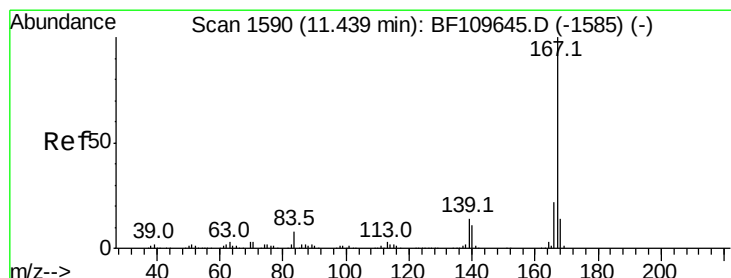
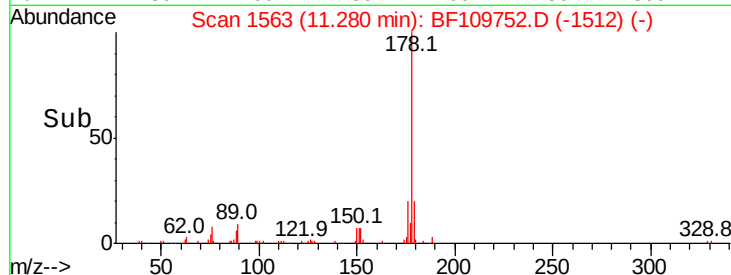
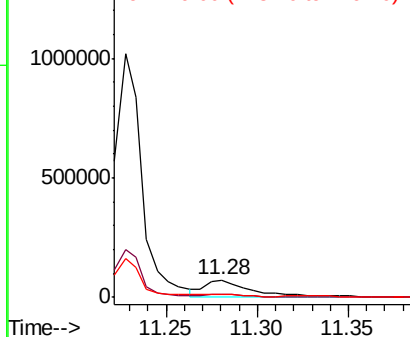


Abundance

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: 7.703 ng

RT: 11.44 min Scan# 1590

Delta R.T. 0.00 min

Lab File: BF109752.D

Acq: 10 Oct 2018 19:48

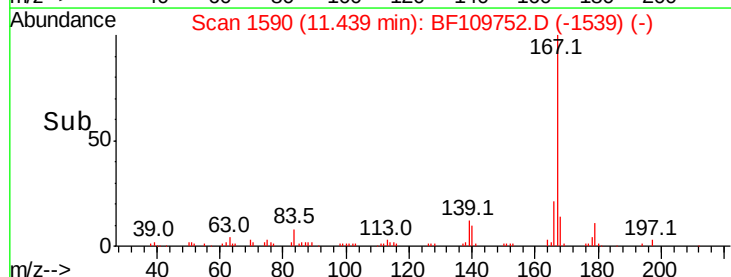
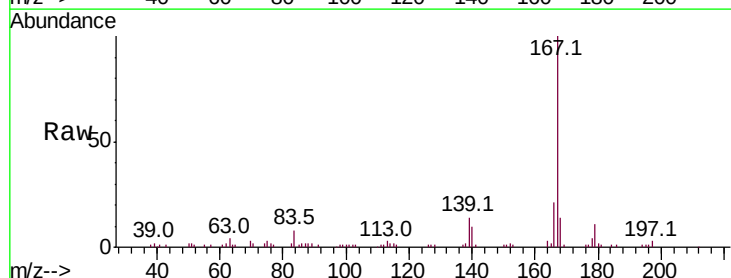
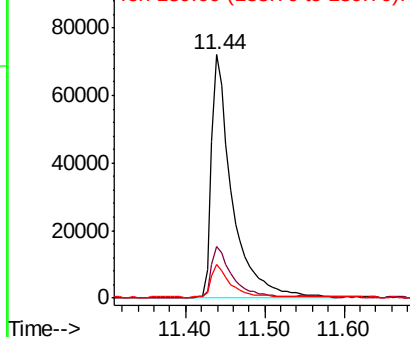
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.4	26.0
139	13.6	10.9	16.3

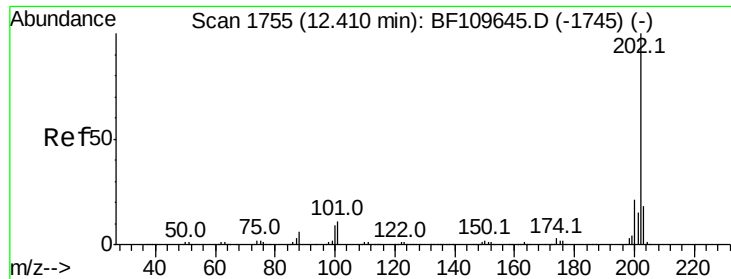
Abundance

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





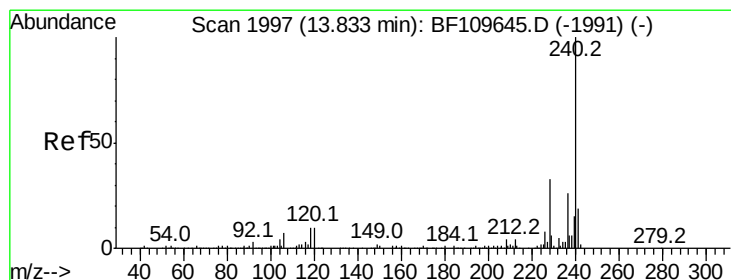
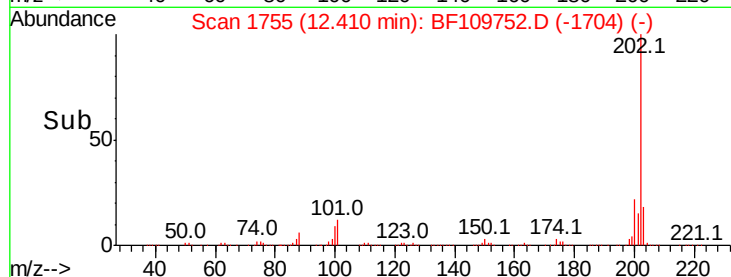
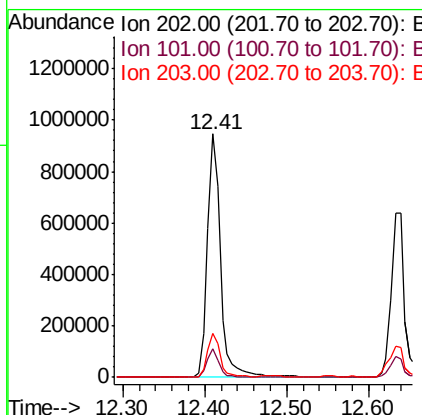
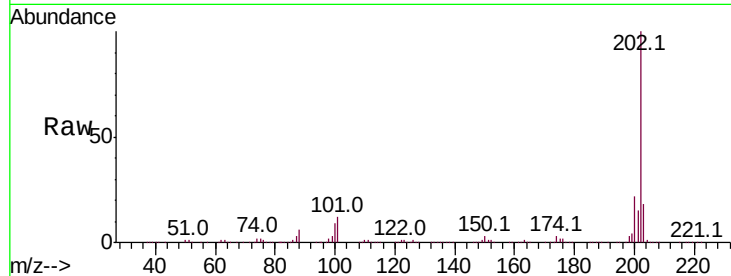
#74
Fluoranthene
Concen: 59.551 ng
RT: 12.41 min Scan# 1755
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.4
203	18.0	0.0	37.7

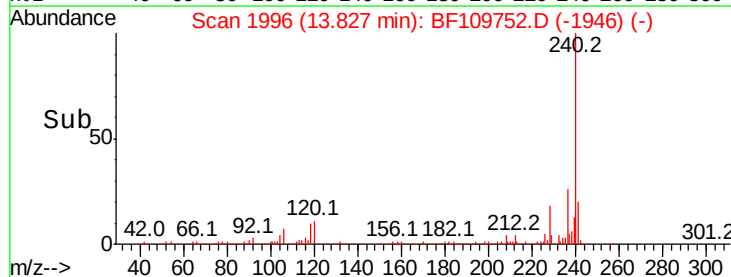
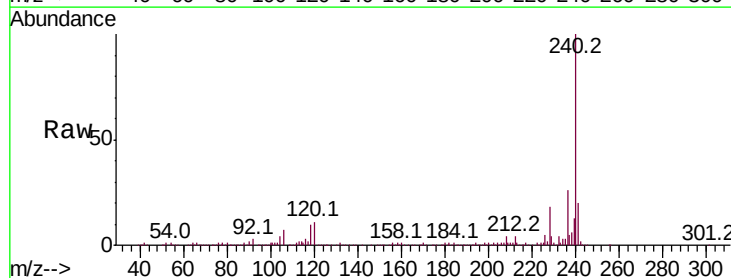
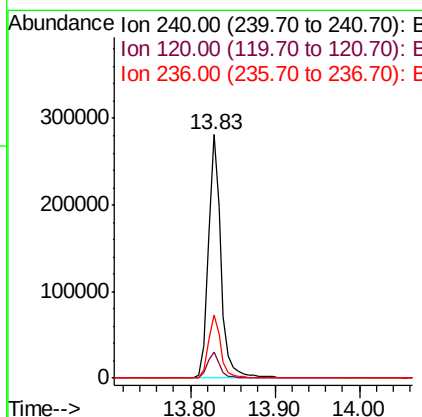
Manual Integrations
APPROVED

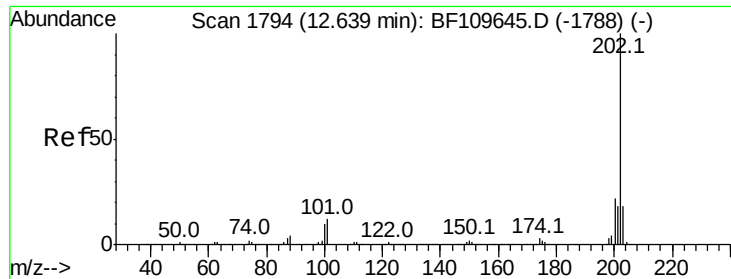
Sohil
10/11/2018 2:02:44 PM



#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.3	12.5
236	25.9	21.2	31.8





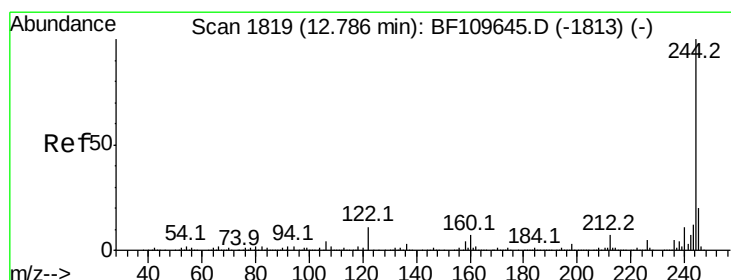
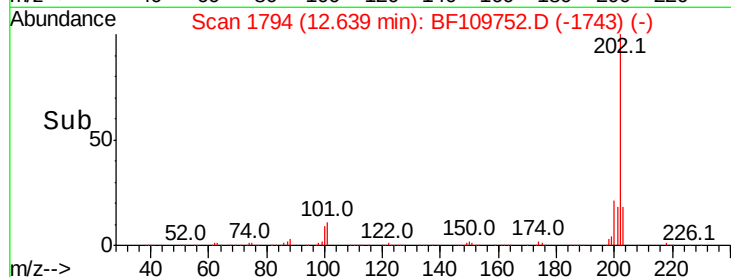
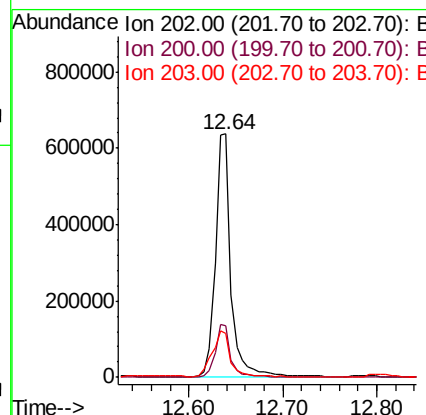
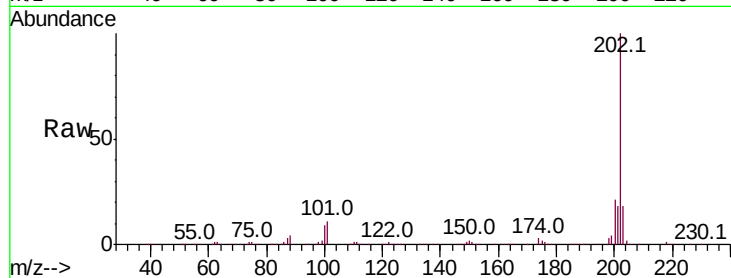
#77
Pvrene
Concen: 34.543 ng
RT: 12.64 min Scan# 1794
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.8	26.6
203	18.0	14.2	21.4

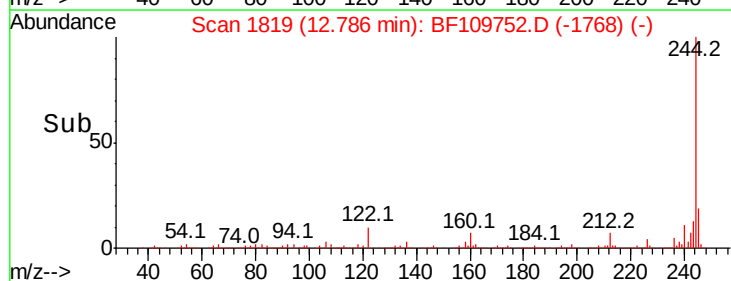
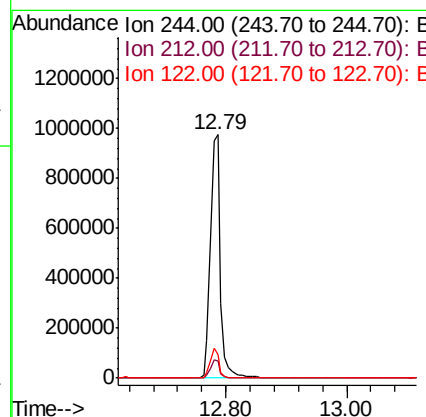
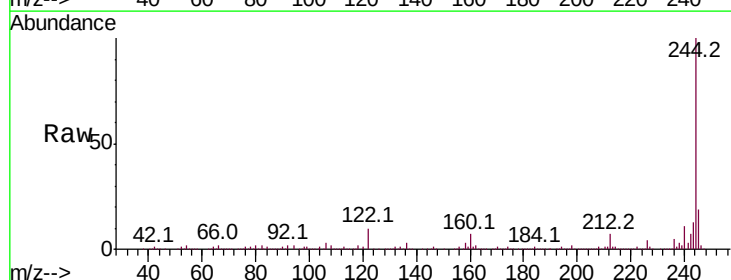
Manual Integrations
APPROVED

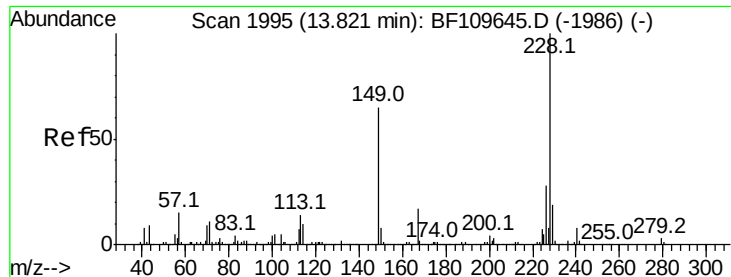
Sohil
10/11/2018 2:02:44 PM



#78
Terphenyl-d14
Concen: 73.991 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	9.8	8.7	13.1





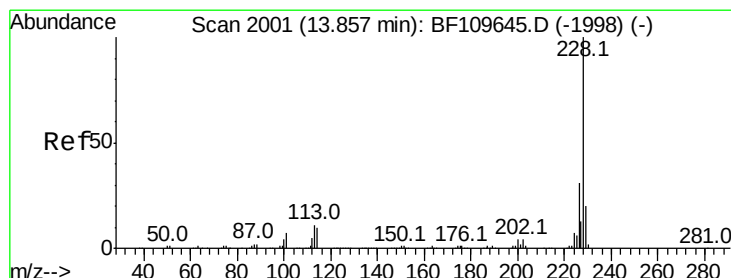
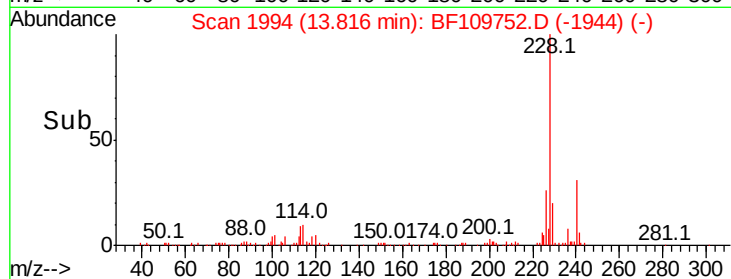
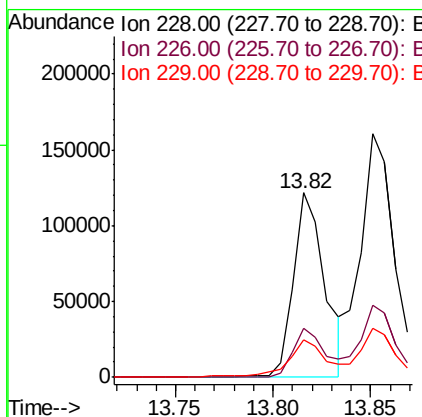
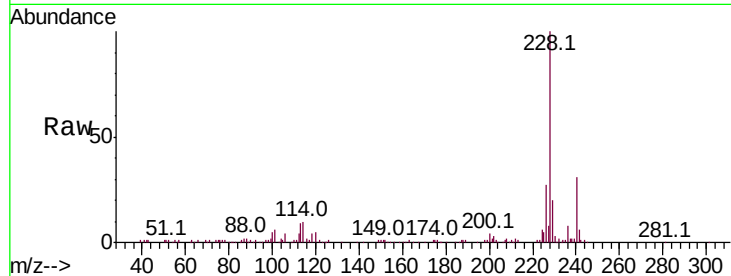
#80
Benzo(a)anthracene
Concen: 8.392 ng
RT: 13.82 min Scan# 1994
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.6	22.1	33.1
229	20.1	15.6	23.4

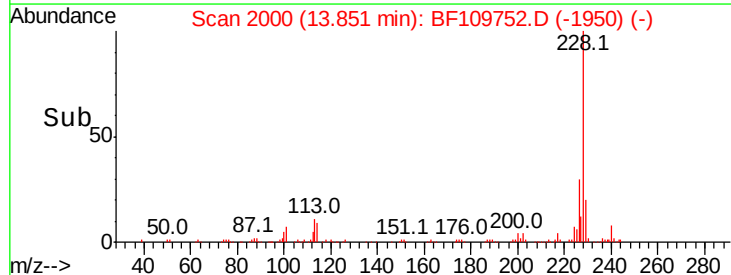
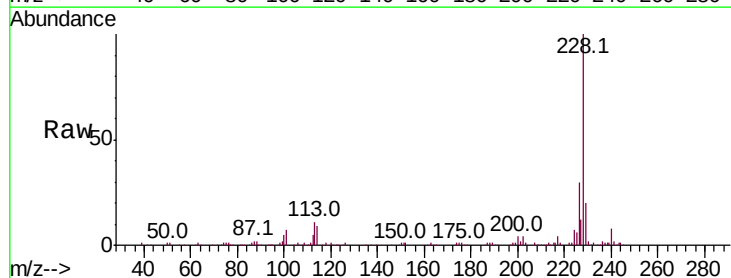
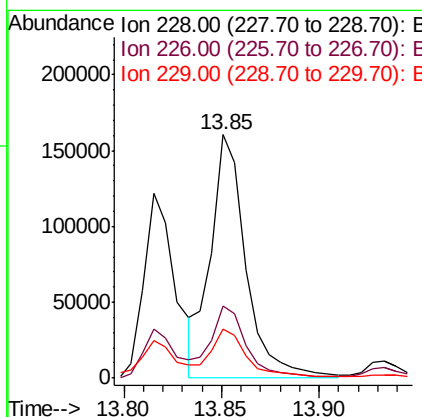
Manual Integrations
APPROVED

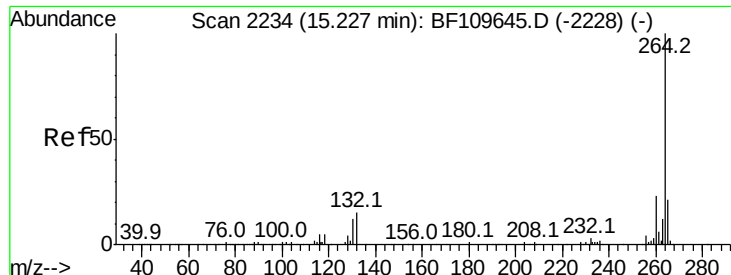
Sohil
10/11/2018 2:02:44 PM



#82
Chrysene
Concen: 11.964 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.7	37.1
229	20.4	15.9	23.9





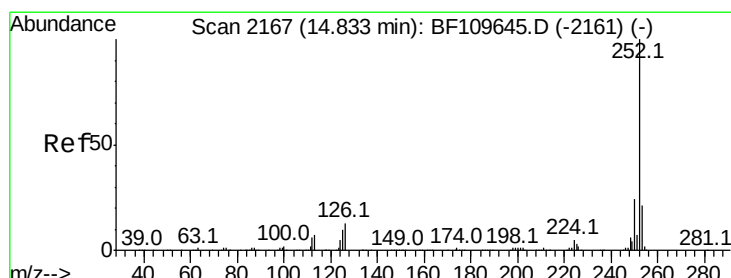
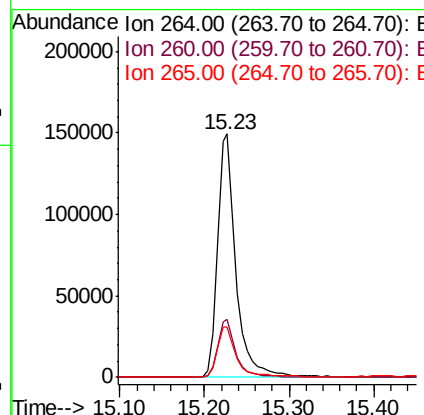
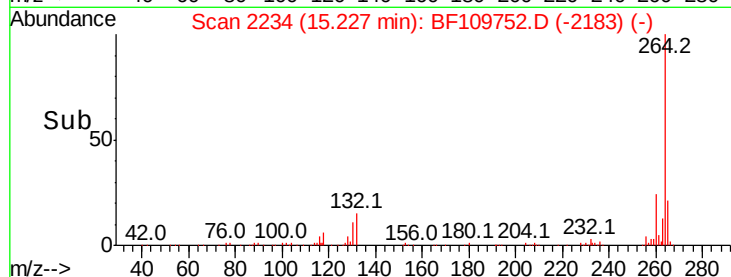
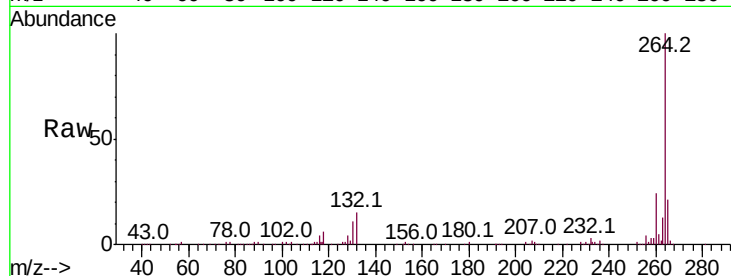
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2234
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	20.9	16.7	25.1

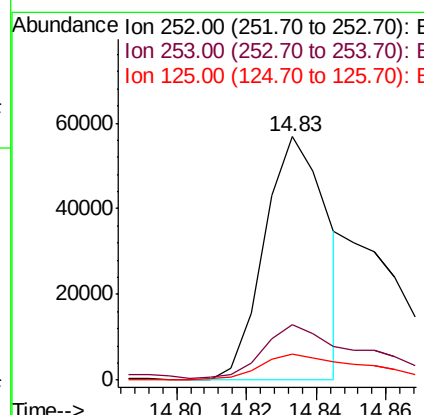
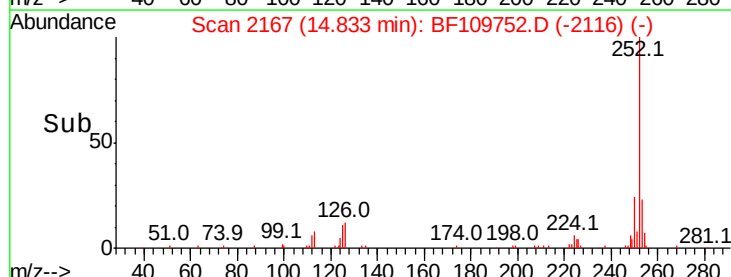
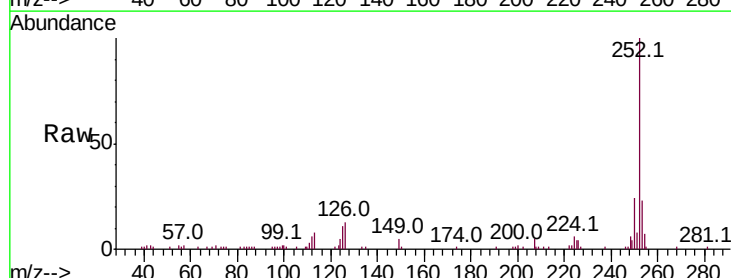
Manual Integrations
APPROVED

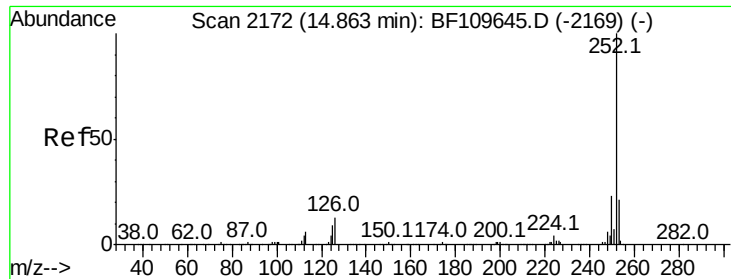
Sohil
10/11/2018 2:02:44 PM



#87
Benzo(b)fluoranthene
Concen: 5.581 ng m
RT: 14.83 min Scan# 2167
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.2	25.8
125	10.8	8.2	12.4





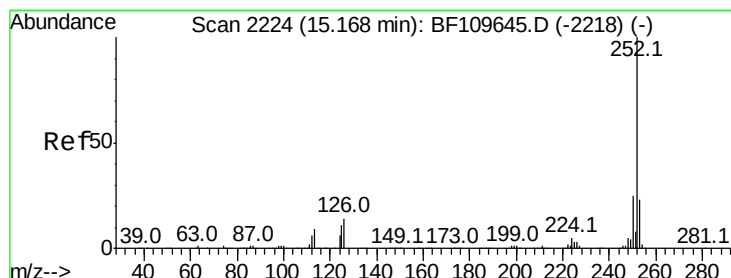
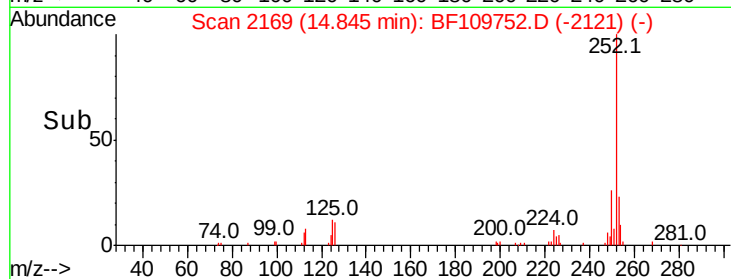
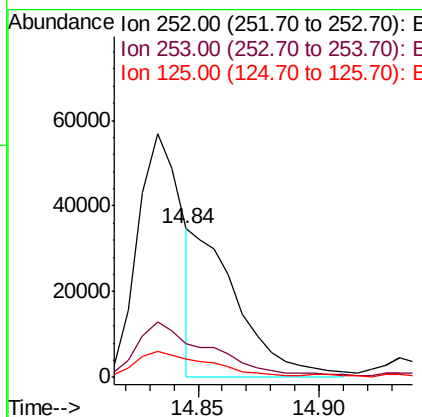
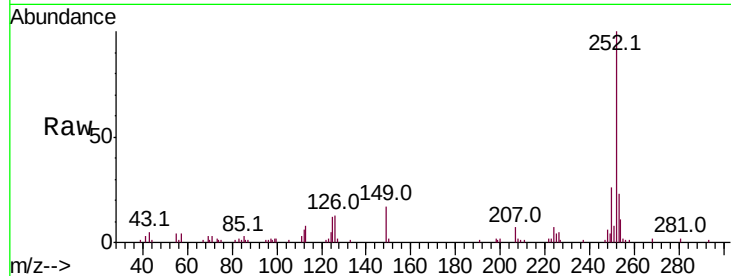
#88
Benzo(k)fluoranthene
Concen: 3.511 ng m
RT: 14.84 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Instrument :
BNA_F
ClientSampleId :
RBR200035

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.2	25.8
125	12.0	7.4	11.0

Manual Integrations
APPROVED

Sohil
10/11/2018 2:02:44 PM



#89
Benzo(a)pyrene
Concen: 2.479 ng
RT: 15.17 min Scan# 2224
Delta R.T. 0.00 min
Lab File: BF109752.D
Acq: 10 Oct 2018 19:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.4
125	12.5	9.0	13.6

