

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101997.D
 Acq On : 10 Jan 2018 23:30
 Operator : SJ/JU
 Sample : J1076-14 50X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-14767779-01

Manual Integrations
 APPROVED

Sohil
 1/11/2018 10:53:13 AM

Quant Time: Jan 11 04:25:22 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	207487	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	854956	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	366590	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	571959	20.00	ng	0.00
75) Chrysene-d12	13.87	240	339006	20.00	ng	0.00
86) Perylene-d12	15.29	264	387085	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6525	0.44	ng	0.00
7) Phenol-d6	6.35	99	7976	0.45	ng	0.00
23) Nitrobenzene-d5	7.28	82	4632	0.32	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1380	0.43	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	9449	0.40	ng	-0.01
78) Terphenyl-d14	12.82	244	6978	0.43	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.04	128	4033450	94.414	ng	98
37) 2-Methylnaphthalene	8.72	142	555568	19.754	ng	99
45) 1,1'-Biphenyl	9.19	154	119776	3.696	ng	98
48) Acenaphthylene	9.62	152	369033	9.255	ng	99
51) Acenaphthene	9.79	154	93791	3.875	ng	98
54) Dibenzofuran	9.96	168	309557	9.319	ng	98
57) Fluorene	10.30	166	412044	17.944	ng	100
70) Phenanthrene	11.27	178	1474274	44.127	ng	99
71) Anthracene	11.32	178	441085	13.018	ng	99
72) Carbazole	11.47	167	152584	4.581	ng	98
74) Fluoranthene	12.46	202	907907	27.620	ng	98
77) Pyrene	12.68	202	834192	27.838	ng	100
80) Benzo(a)anthracene	13.86	228	338349m	15.643	ng	
82) Chrysene	13.90	228	275423	12.212	ng	98
85) Indeno(1,2,3-cd)pyrene	16.66	276	162726	9.913	ng	99
87) Benzo(b)fluoranthene	14.89	252	336475m	13.331	ng	
88) Benzo(k)fluoranthene	14.91	252	122992m	5.052	ng	
89) Benzo(a)pyrene	15.23	252	304314	13.399	ng	96
90) Dibenzo(a,h)anthracene	16.67	278	45452	2.508	ng	# 85
91) Benzo(a,h,i)perylene	17.07	276	157256	8.613	ng	94

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

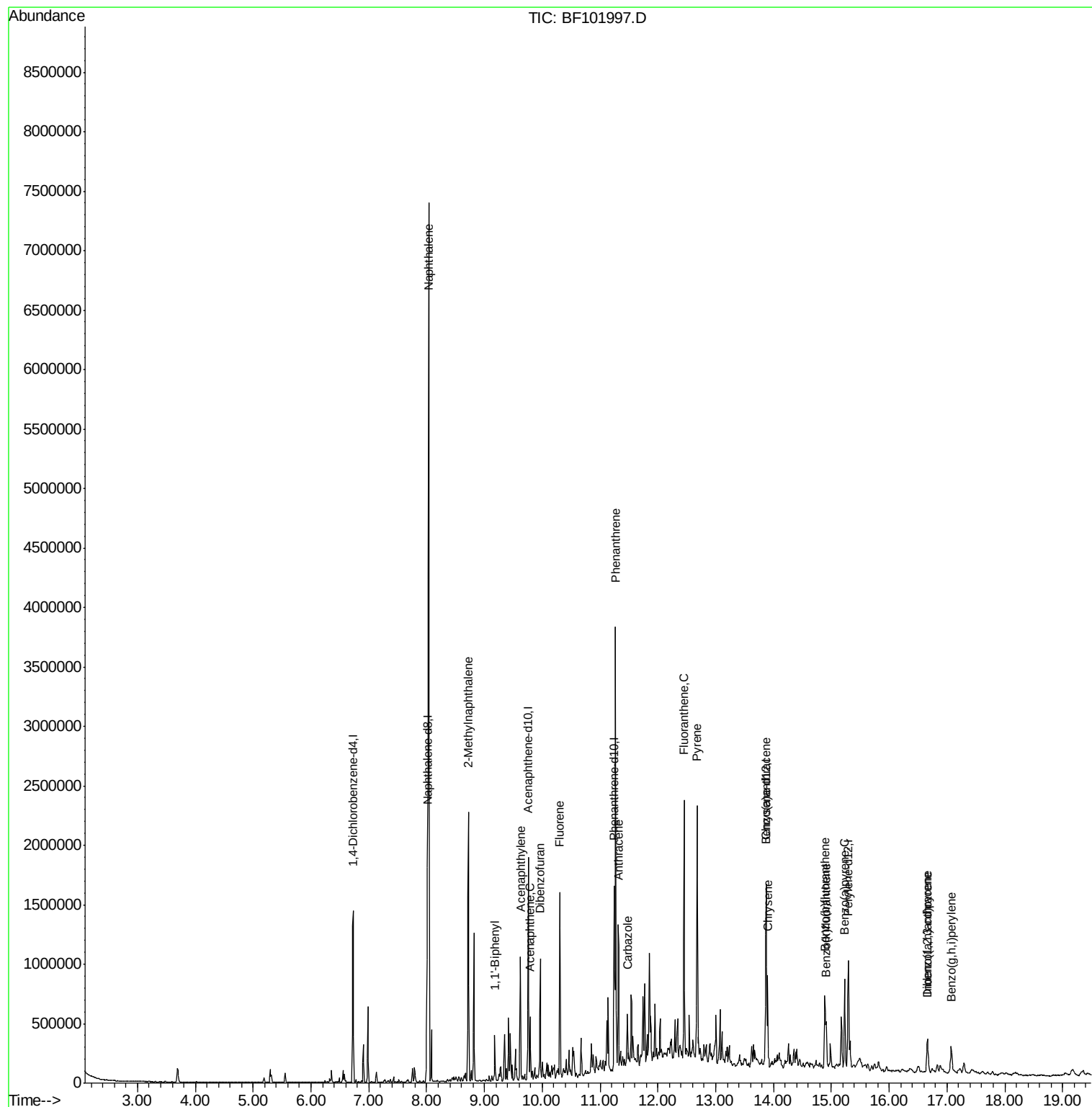
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101997.D
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ALS Vial : 18 Sample Multiplier: 1

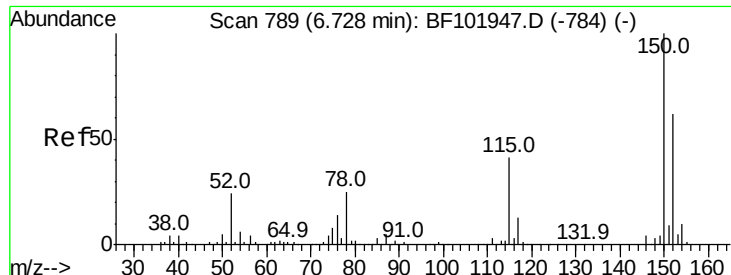
Instrument :
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ClientSampleId :
WC-14767779-01

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#1

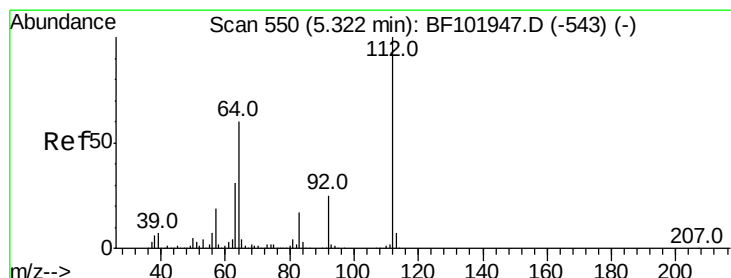
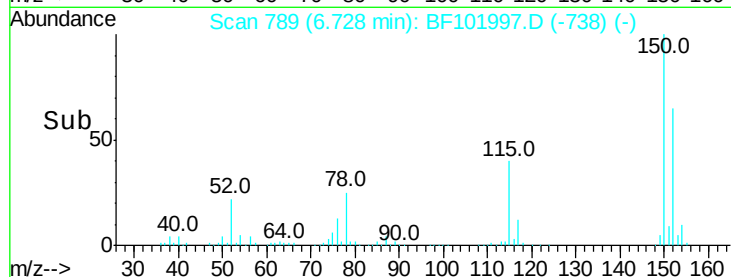
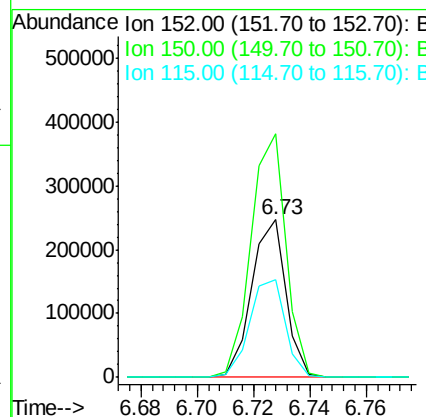
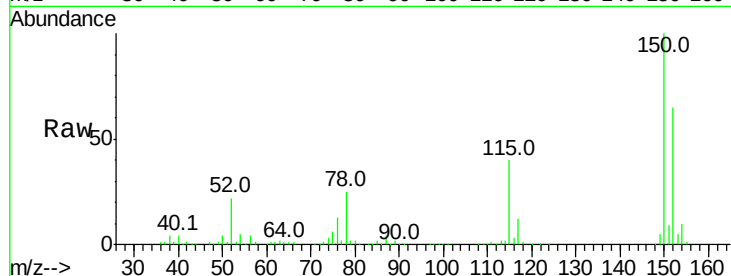
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Instrument :
BNA_F
ClientSampleId :
WC-14767779-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.6	186.8
115	61.7	50.1	75.1

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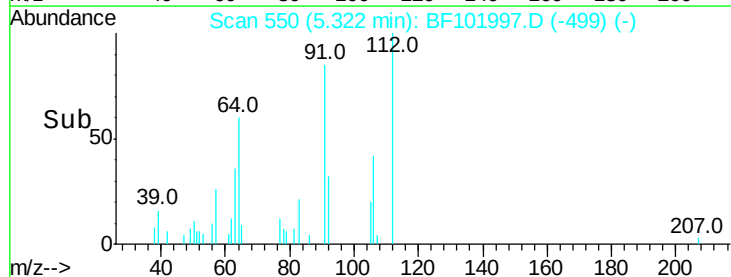
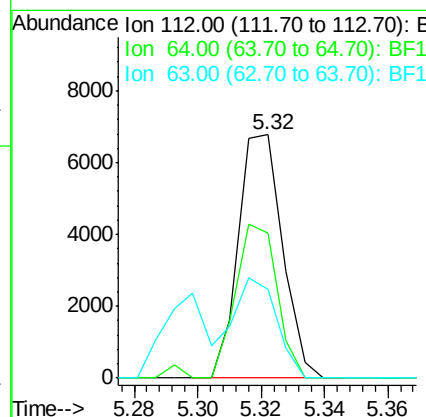
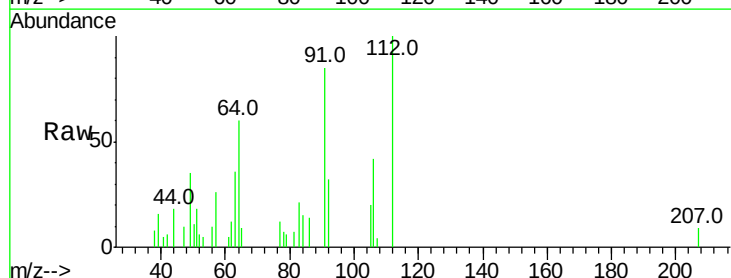
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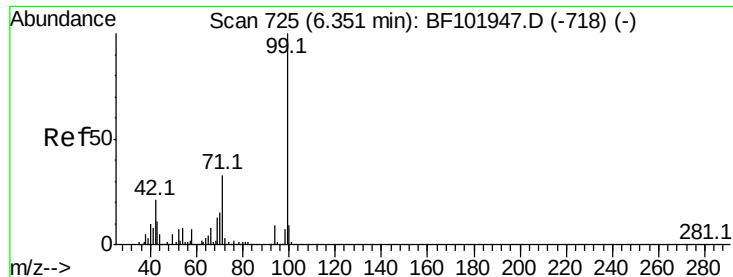


#5

2-Fluorophenol
Concen: 0.444 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.8	47.9	71.9
63	36.3	23.7	35.5





#7

Phenol-d6

Concen: 0.455 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Instrument :

BNA_F

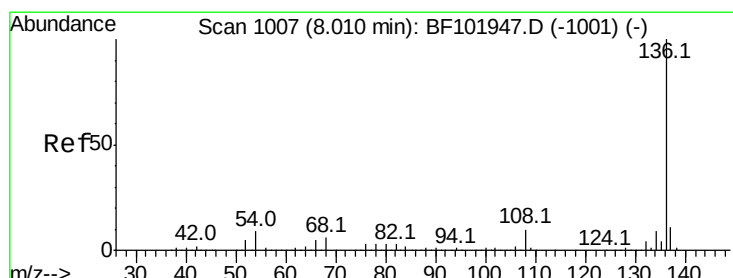
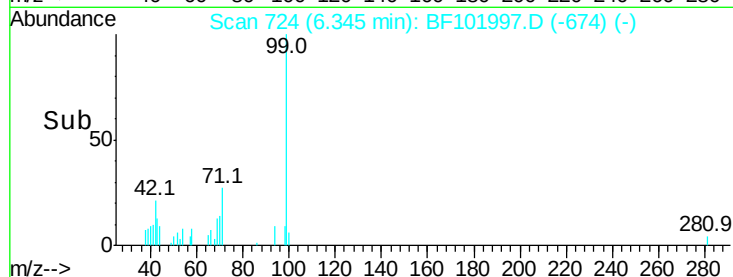
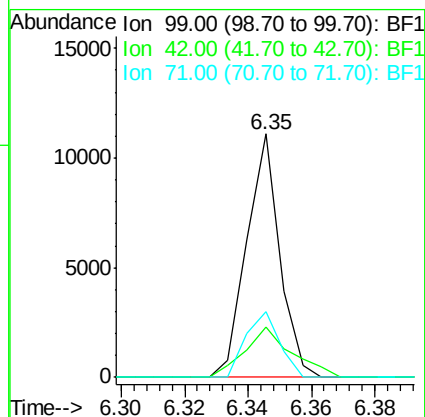
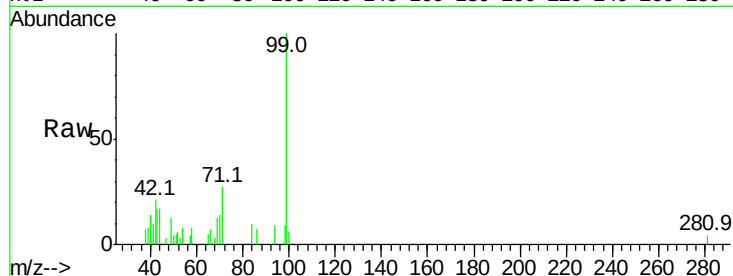
ClientSampleId :

WC-14767779-01

Tot Ion:	99	Resp:	7976
Ion	Ratio	Lower	Upper
99	100		
42	20.5	14.5	21.7
71	26.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

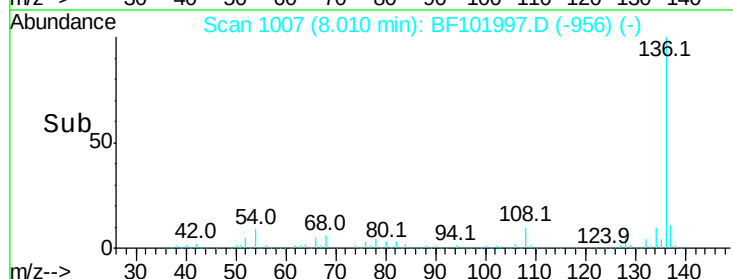
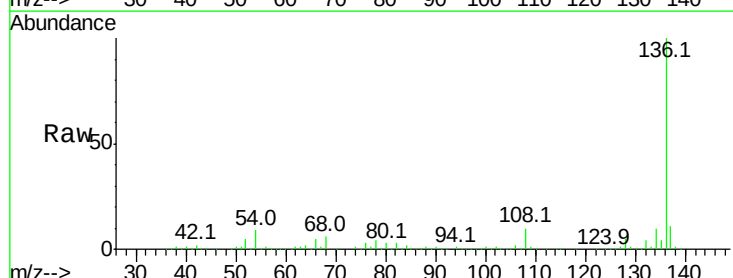
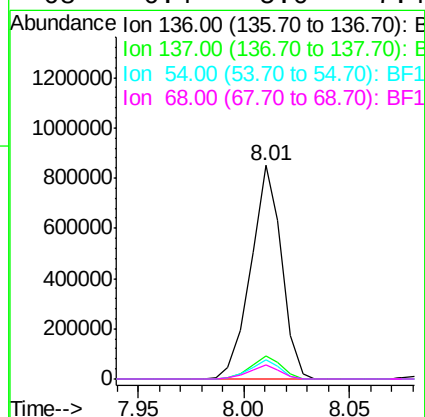
RT: 8.01 min Scan# 1007

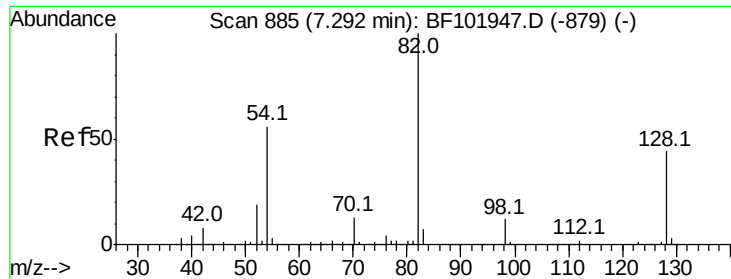
Delta R.T. 0.00 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Tgt Ion:	136	Resp:	854956
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.8	6.6	9.8
68	6.4	5.0	7.4





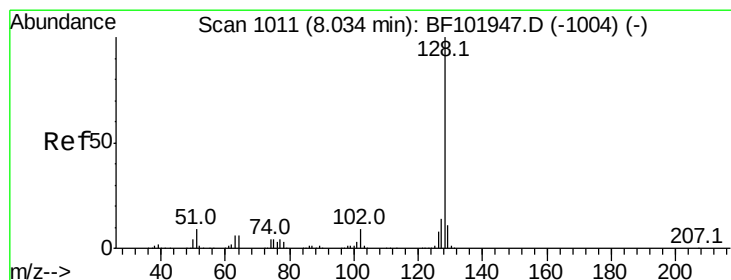
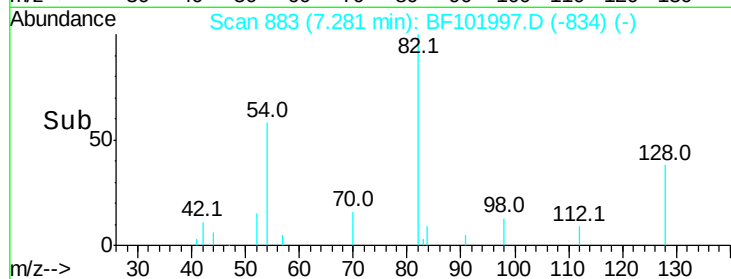
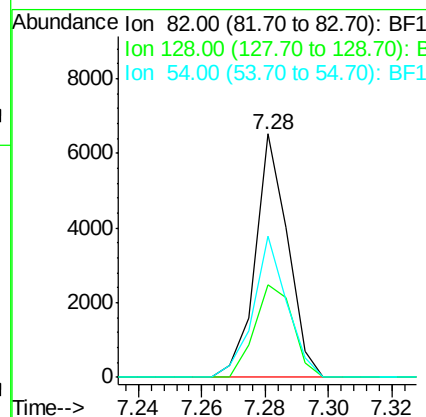
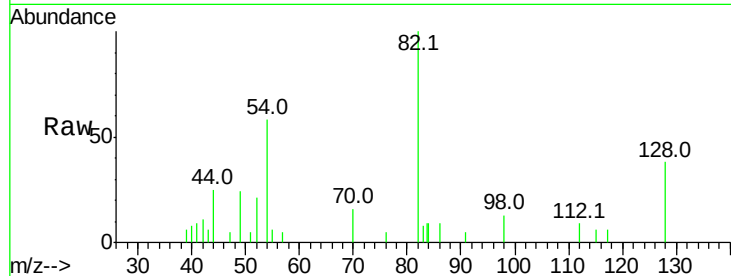
#23
 Nitrobenzene-d5
 Concen: 0.318 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF101997.D
 Acq: 10 Jan 2018 23:30

Instrument :
 BNA_F
 ClientSampleId :
 WC-14767779-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.2	36.1	54.1
54	58.2	41.4	62.2

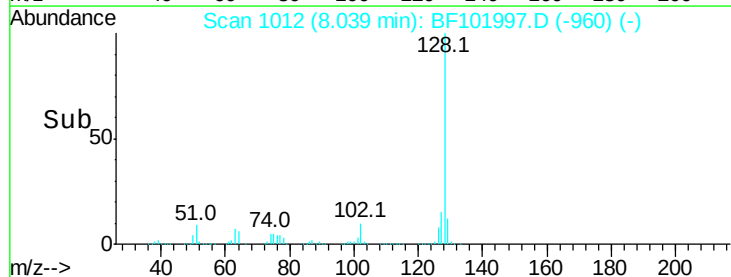
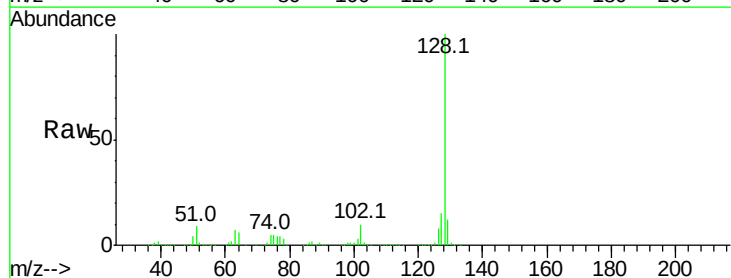
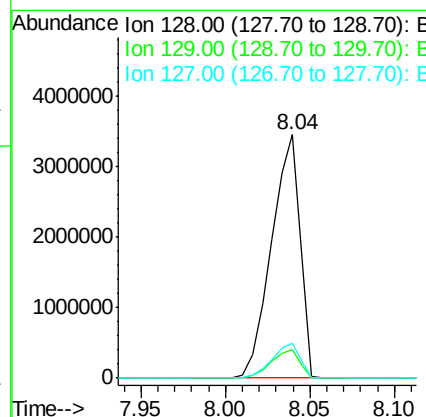
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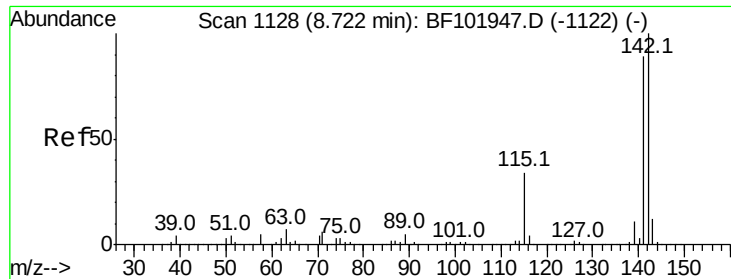
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#31
 Naphthalene
 Concen: 94.414 ng
 RT: 8.04 min Scan# 1012
 Delta R.T. 0.01 min
 Lab File: BF101997.D
 Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.8	13.2
127	14.6	10.9	16.3





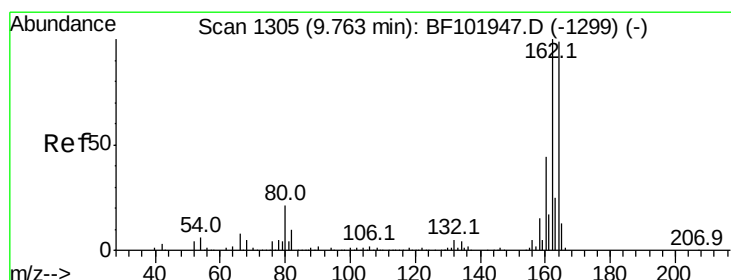
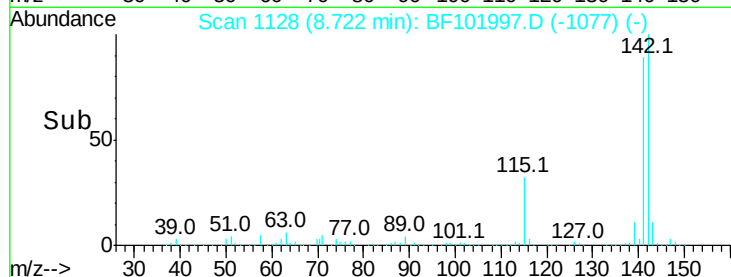
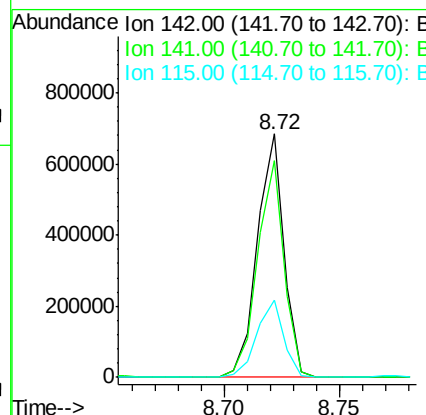
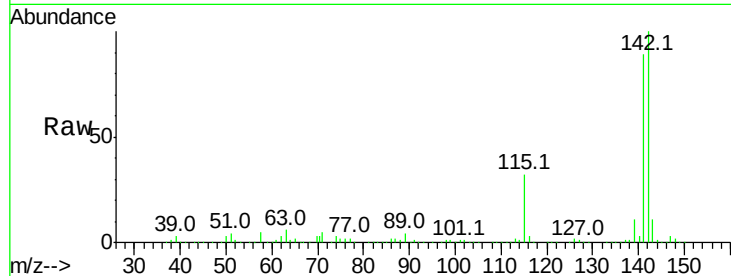
#37
2-Methylnaphthalene
Concen: 19.754 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Instrument :
BNA_F
ClientSampleId :
WC-14767779-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.8	106.2
115	31.9	26.1	39.1

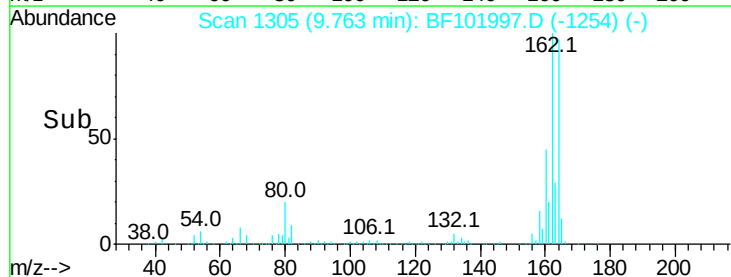
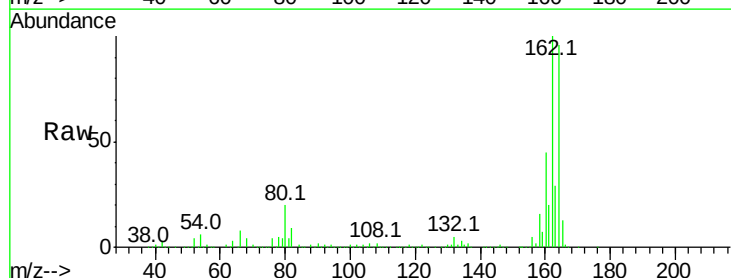
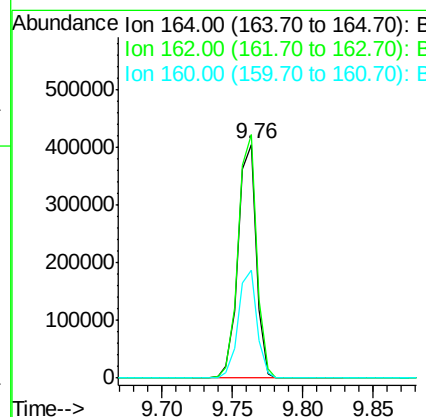
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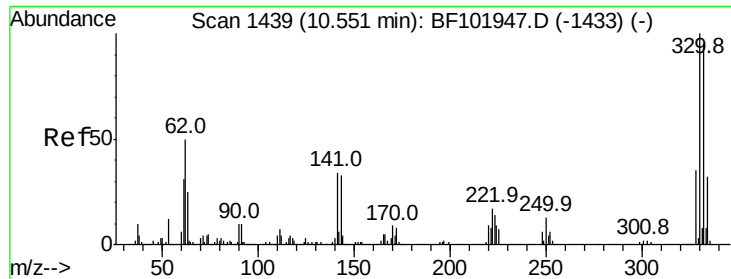
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	86.1	129.1
160	46.4	38.3	57.5





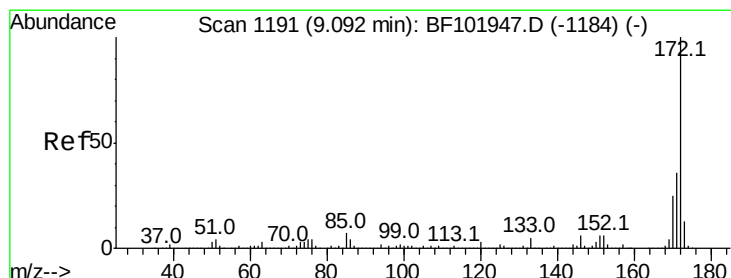
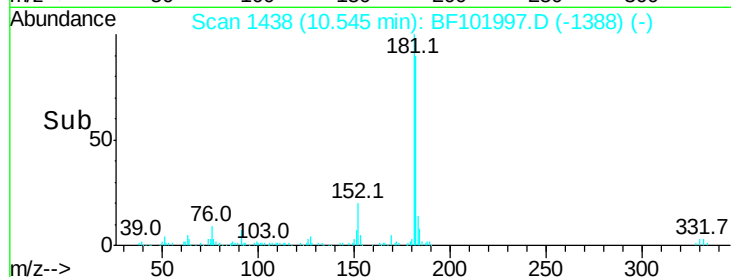
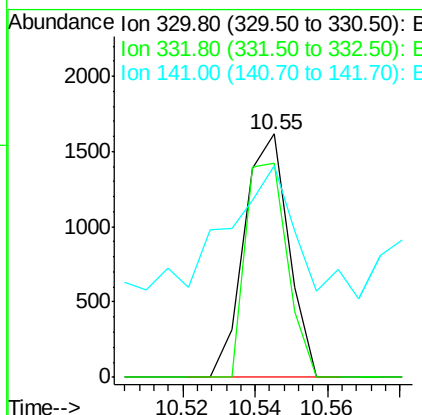
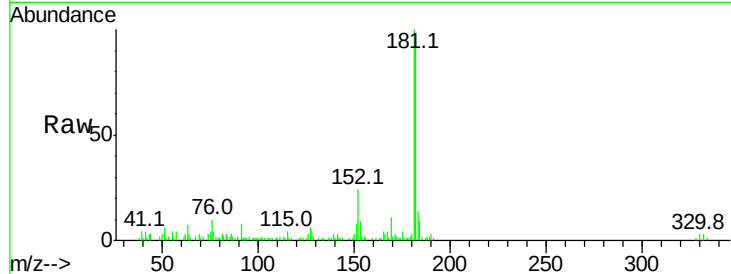
#41
 2,4,6-Tribromophenol
 Concen: 0.431 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF101997.D
 Acq: 10 Jan 2018 23:30

Instrument :
 BNA_F
 ClientSampleId :
 WC-14767779-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	83.3	77.0	115.6
141	88.6	29.9	44.9#

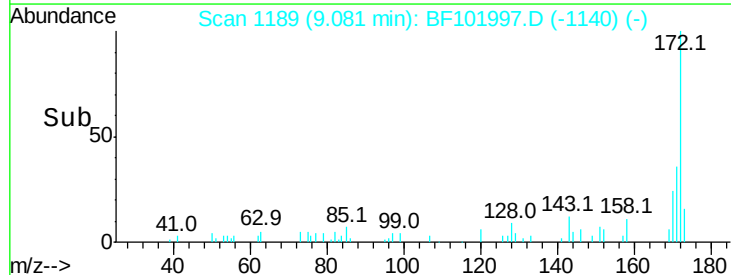
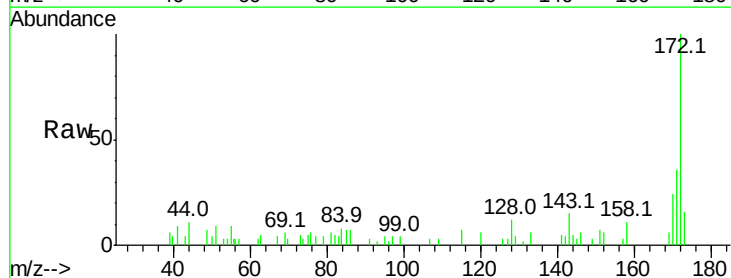
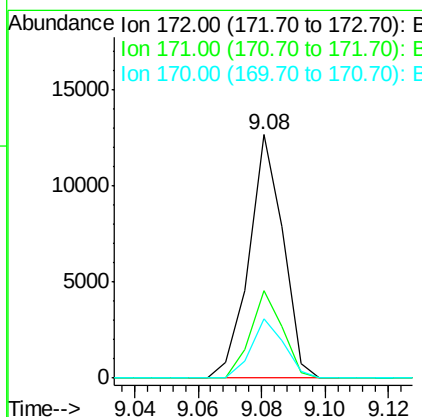
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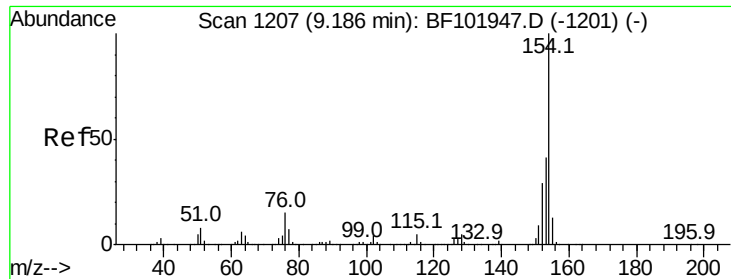
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#44
 2-Fluorobiphenyl
 Concen: 0.403 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF101997.D
 Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.7	44.5
170	24.4	19.6	29.4





#45

1,1'-Biphenyl

Concen: 3.696 ng

RT: 9.19 min Scan# 1207

Delta R.T. 0.00 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Instrument :

BNA_F

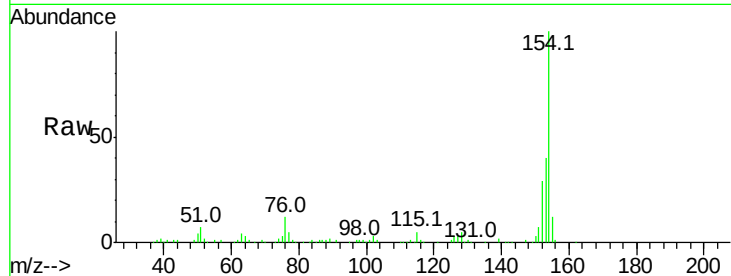
ClientSampled :

WC-14767779-01

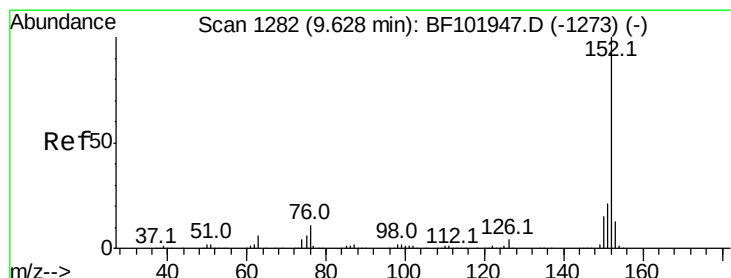
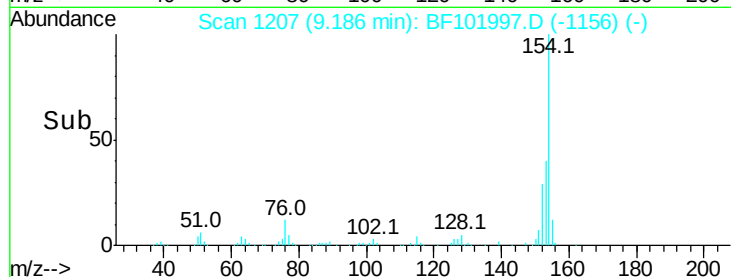
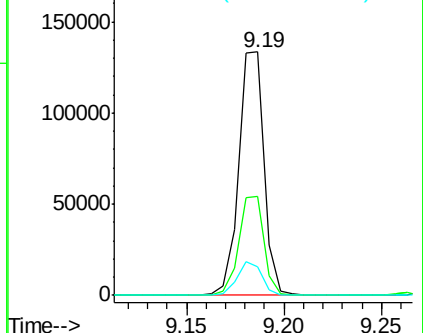
Tot Ion:	154	Resp:	119776
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.3	61.3
76	11.6	0.0	34.0

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



#48

Acenaphthylene

Concen: 9.255 ng

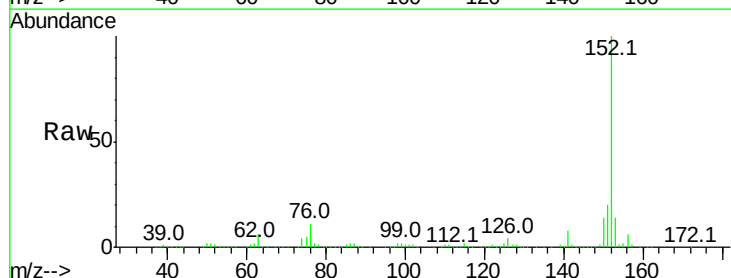
RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

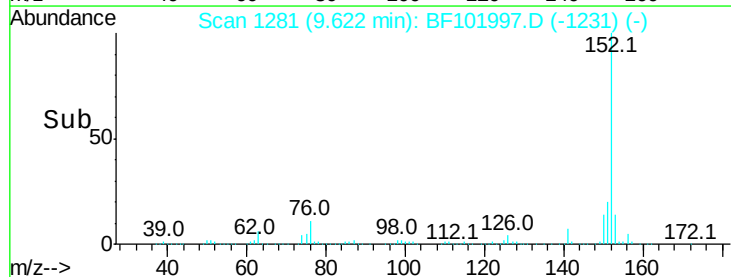
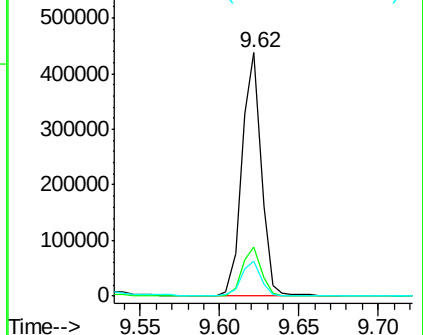
Lab File: BF101997.D

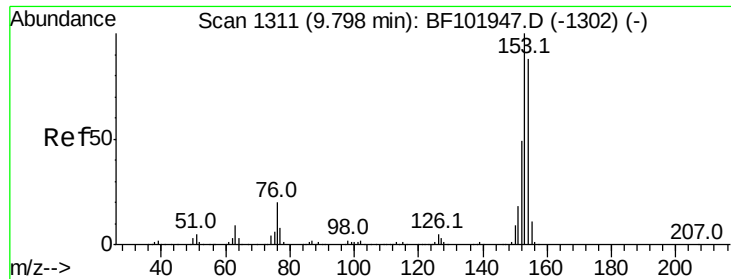
Acq: 10 Jan 2018 23:30

Tgt Ion:	152	Resp:	369033
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	14.1	10.7	16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 3.875 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Instrument :

BNA_F

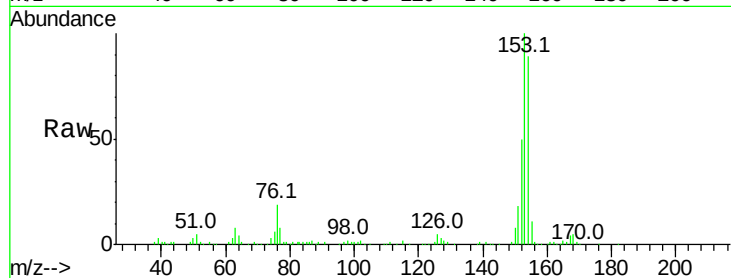
ClientSampleId :

WC-14767779-01

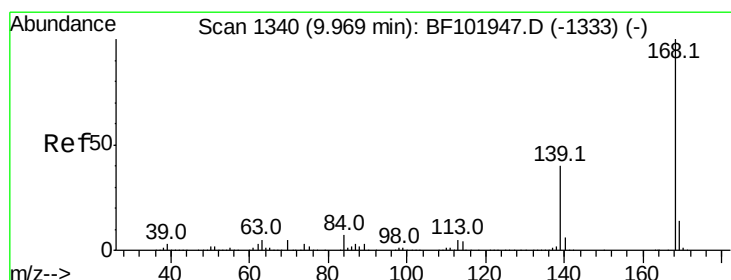
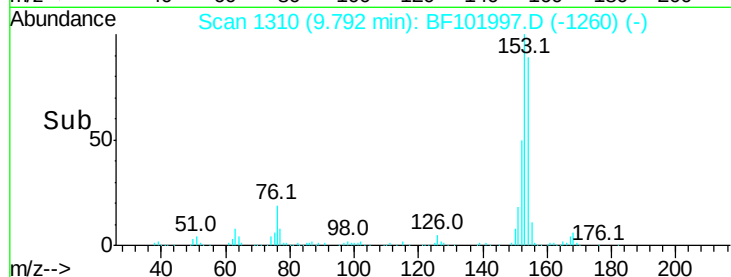
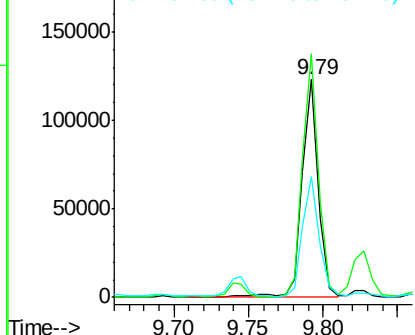
Tot Ion:	154	Resp:	93791
Ion Ratio	Lower	Upper	
154	100		
153	111.9	91.2	136.8
152	55.5	43.8	65.8

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



#54

Dibenzofuran

Concen: 9.319 ng

RT: 9.96 min Scan# 1339

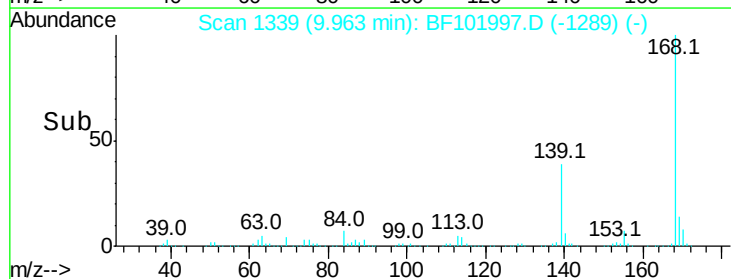
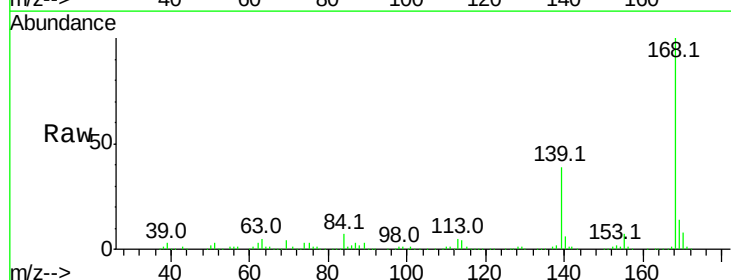
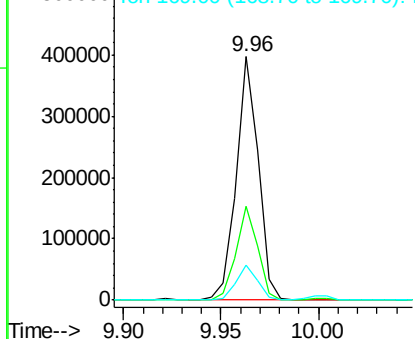
Delta R.T. -0.01 min

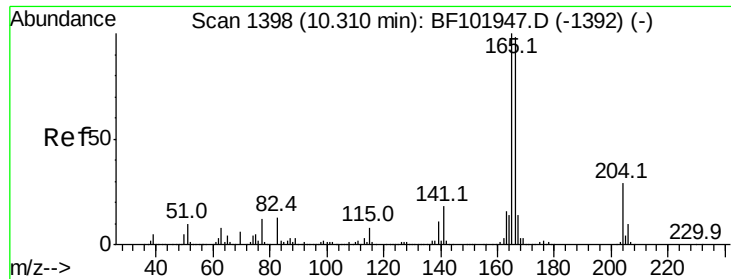
Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Tgt Ion:	168	Resp:	309557
Ion Ratio	Lower	Upper	
168	100		
139	38.8	30.1	45.1
169	14.3	10.9	16.3

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





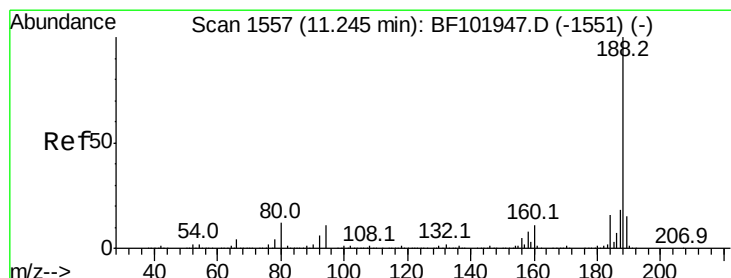
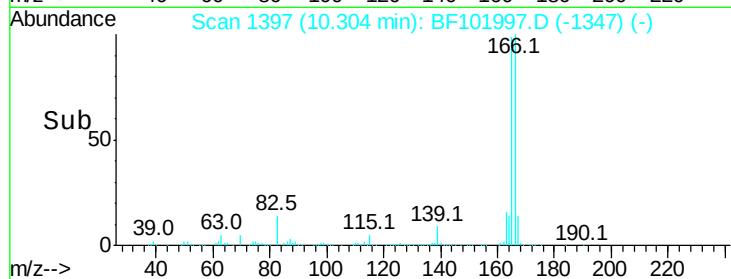
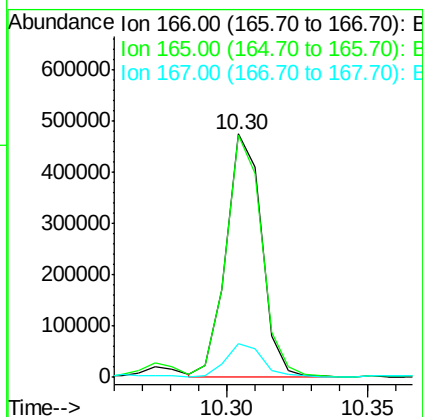
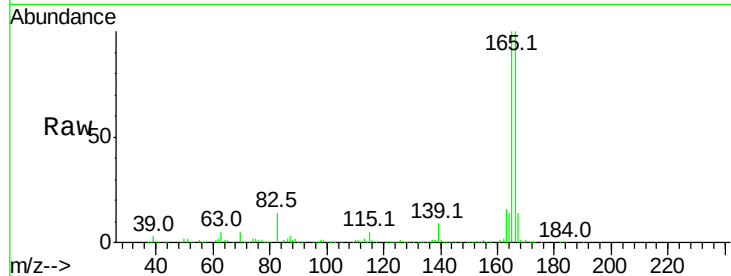
#57
Fluorene
 Concen: 17.944 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.00 min
 Lab File: BF101997.D
 Acq: 10 Jan 2018 23:30

Instrument :
 BNA_F
 ClientSampleId :
 WC-14767779-01

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.8	119.8
167	13.8	10.6	16.0

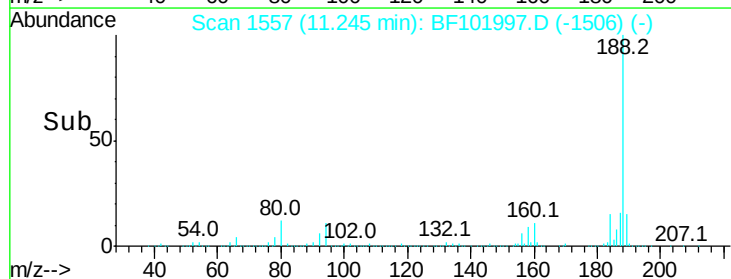
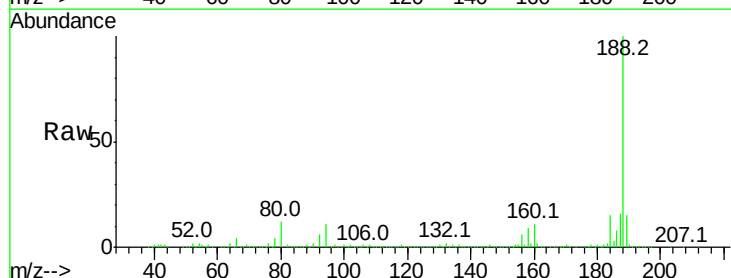
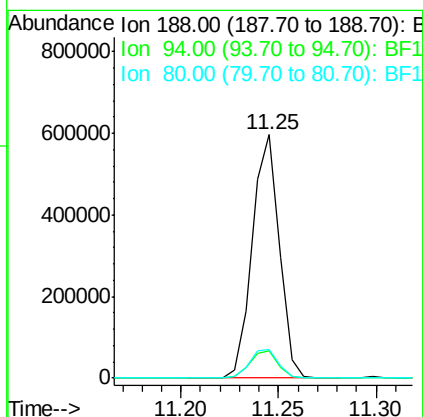
Manual Integrations
 APPROVED

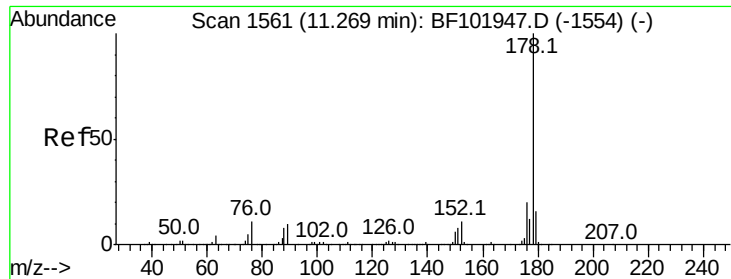
Sohil
 1/11/2018 10:53:13 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF101997.D
 Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.5	12.7
80	11.8	9.2	13.8





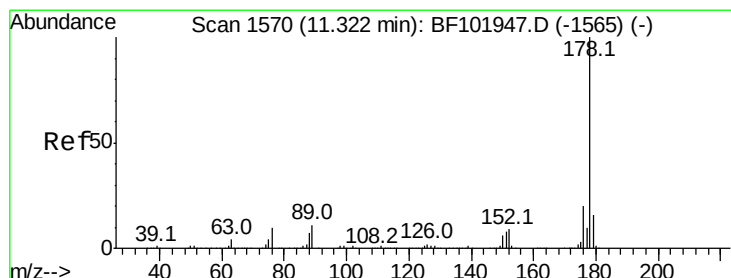
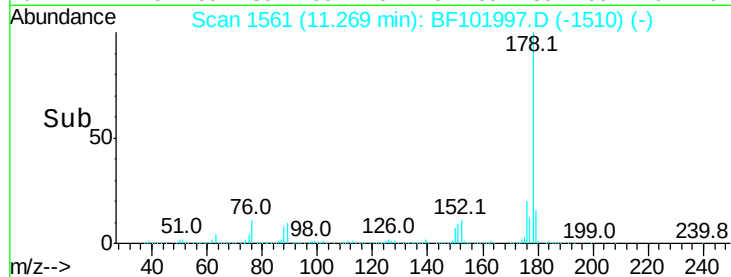
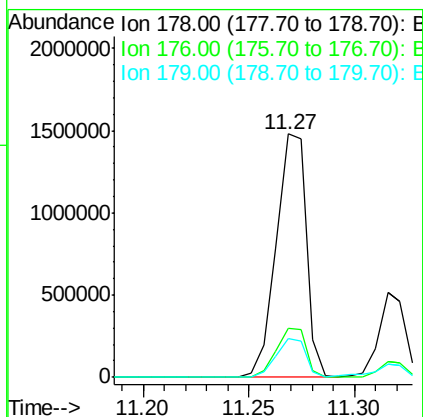
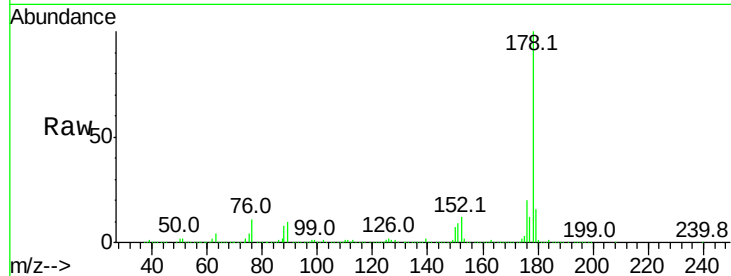
#70
Phenanthrene
Concen: 44.127 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Instrument :
BNA_F
ClientSampleId :
WC-14767779-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	15.8	13.0	19.6

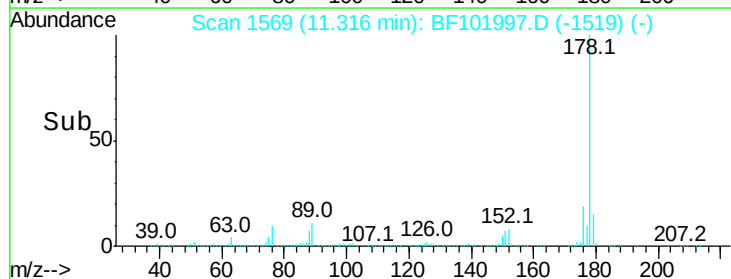
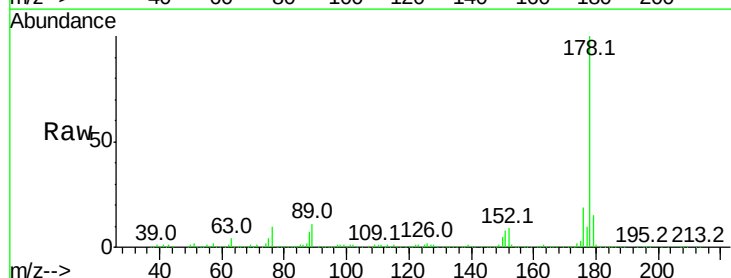
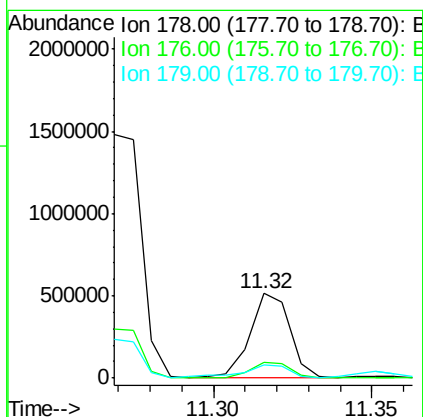
Manual Integrations
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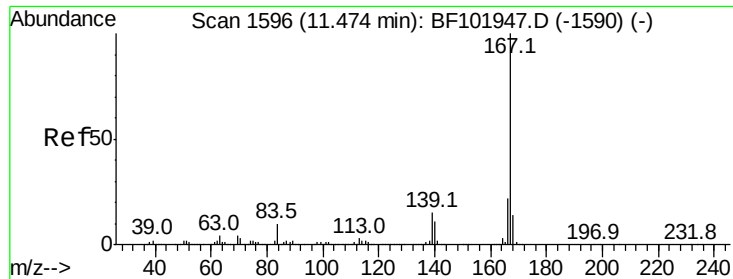
Sohil
1/11/2018 10:53:13 AM



#71
Anthracene
Concen: 13.018 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.5	12.6	19.0





#72

Carbazole

Concen: 4.581 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Instrument :

BNA_F

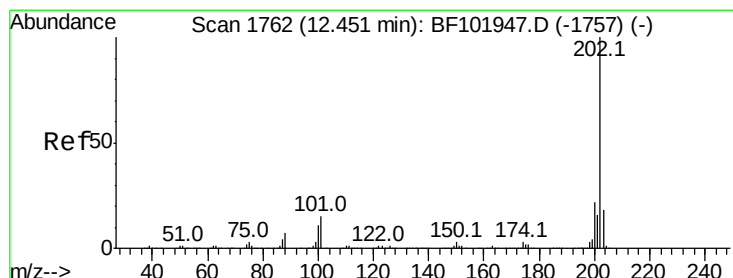
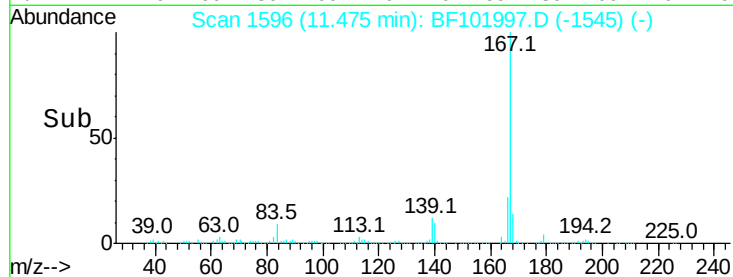
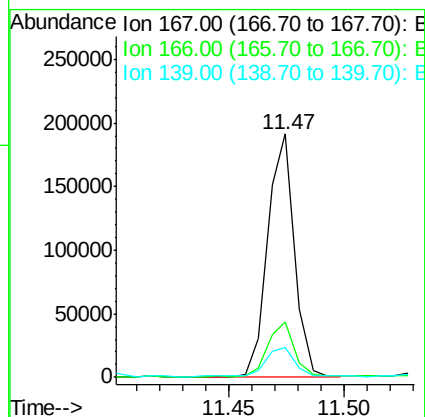
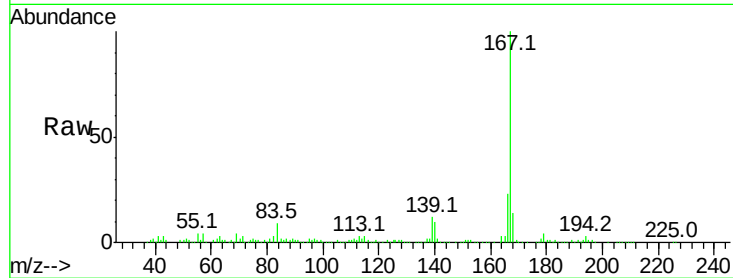
ClientSampleId :

WC-14767779-01

Tot Ion:	167	Resp:	152584
Ion Ratio	Lower	Upper	
167	100		
166	22.6	17.6	26.4
139	12.4	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 27.620 ng

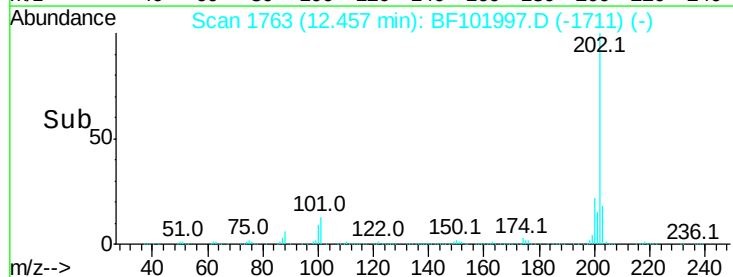
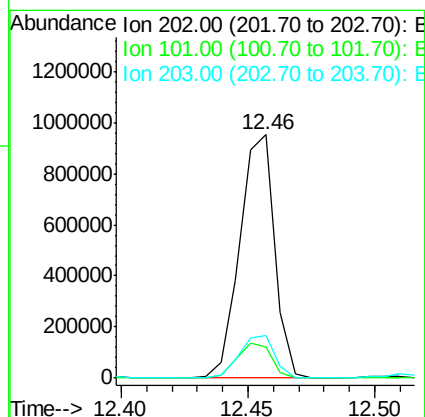
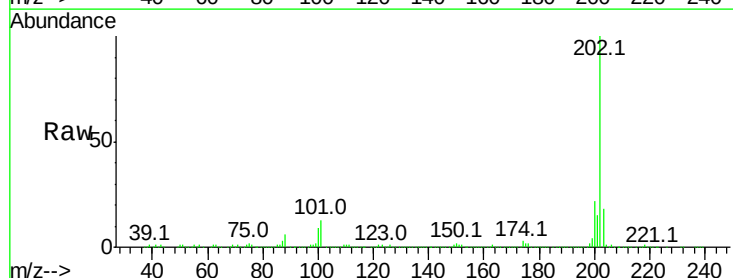
RT: 12.46 min Scan# 1763

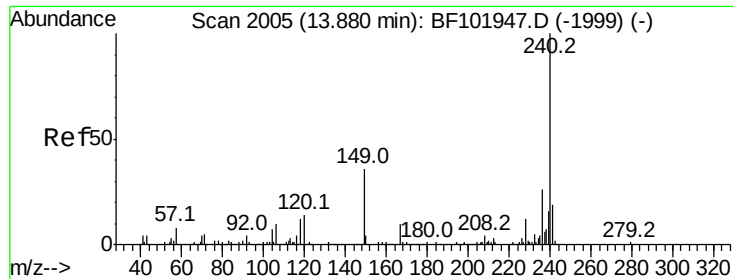
Delta R.T. 0.01 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Tgt Ion:	202	Resp:	907907
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Instrument :

BNA_F

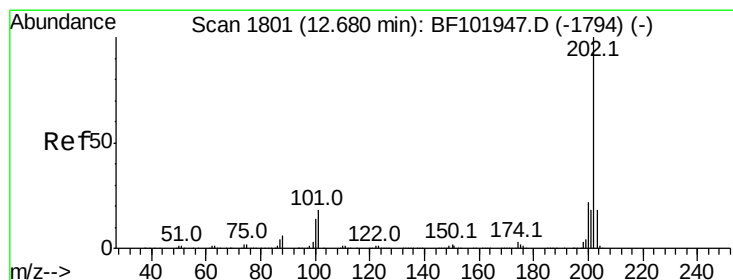
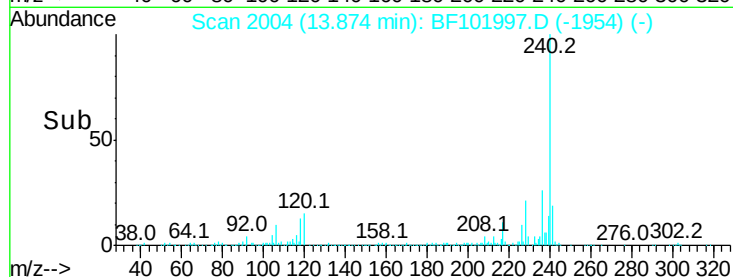
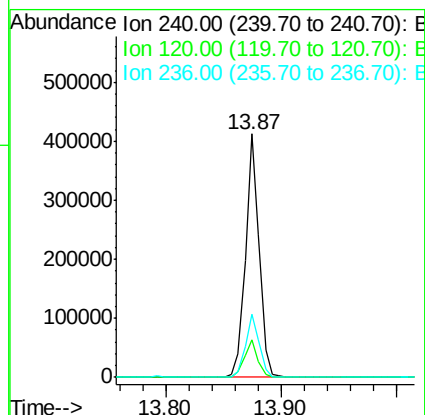
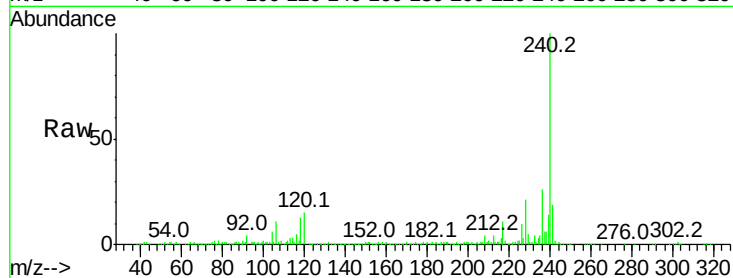
ClientSampleId :

WC-14767779-01

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	15.3	9.5	14.3#	
236	25.7	20.7	31.1	

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#77

Pyrene

Concen: 27.838 ng

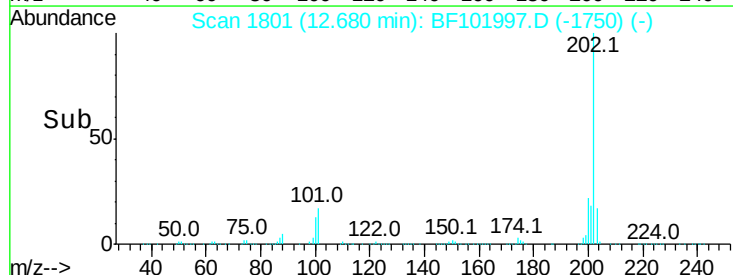
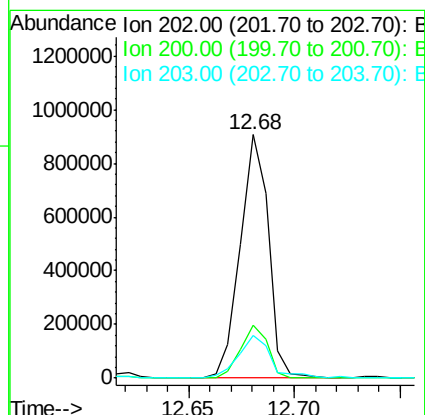
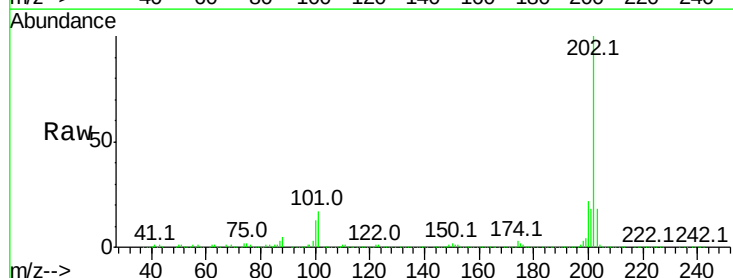
RT: 12.68 min Scan# 1801

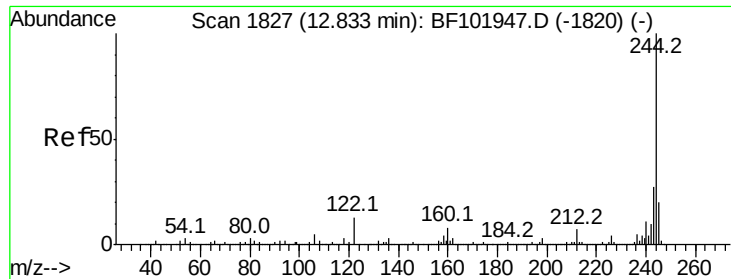
Delta R.T. 0.00 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.7	17.4	26.2	
203	17.7	14.3	21.5	





#78

Terphenyl-d14

Concen: 0.427 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Instrument :

BNA_F

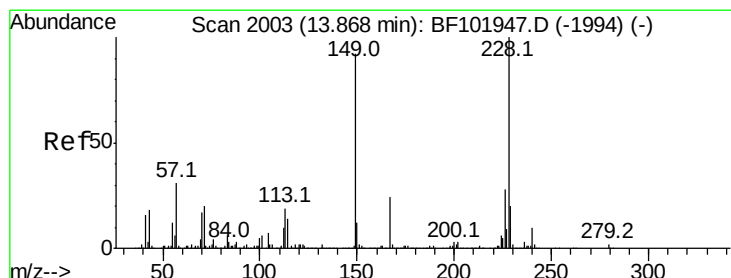
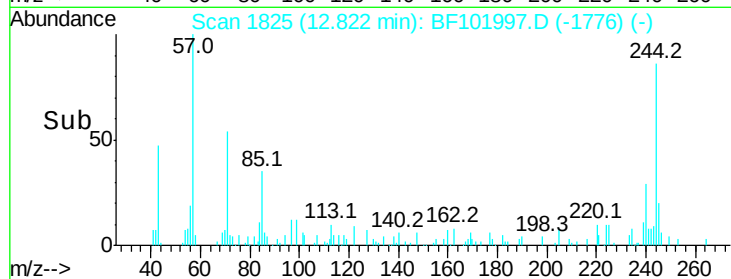
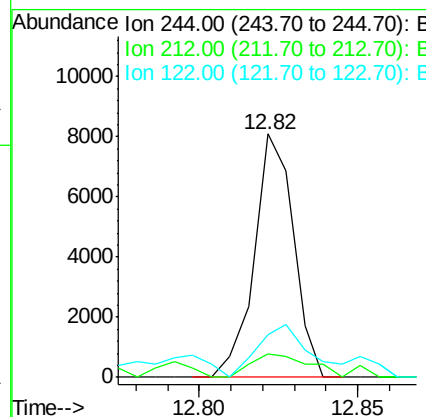
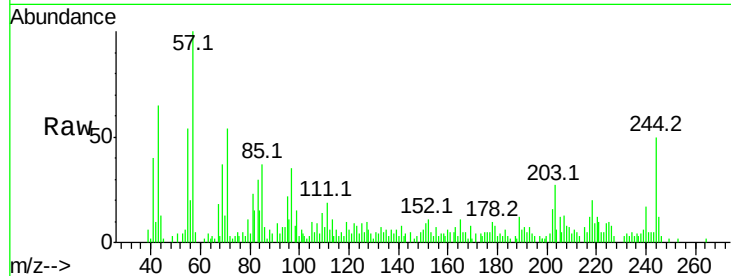
ClientSampleId :

WC-14767779-01

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.5	5.4	8.0#
122	17.6	11.0	16.4#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 15.643 ng m

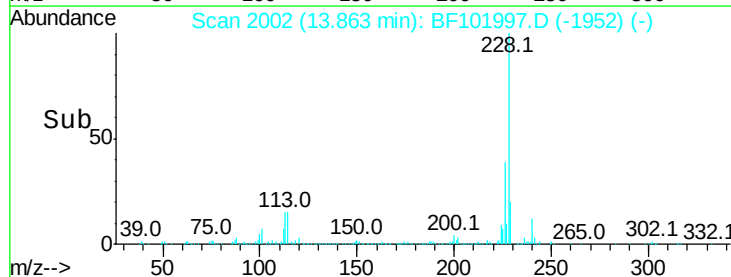
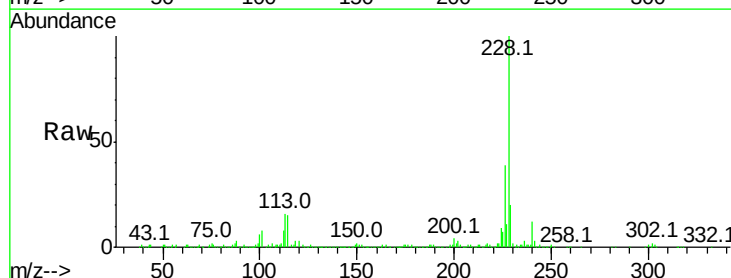
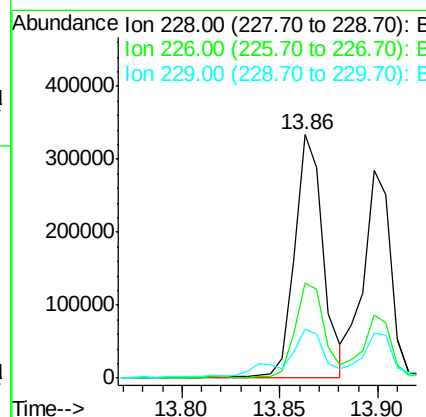
RT: 13.86 min Scan# 2002

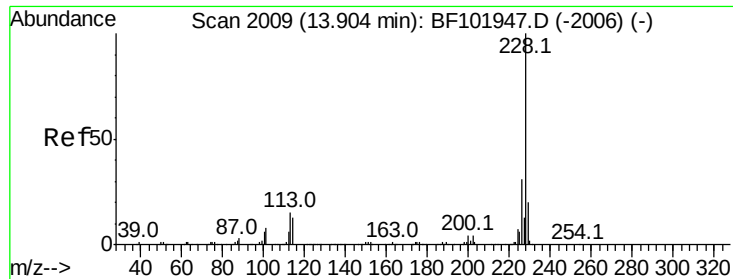
Delta R.T. -0.01 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.1	22.6	33.8#
229	20.4	15.8	23.6





#82

Chrysene

Concen: 12.212 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Instrument :

BNA_F

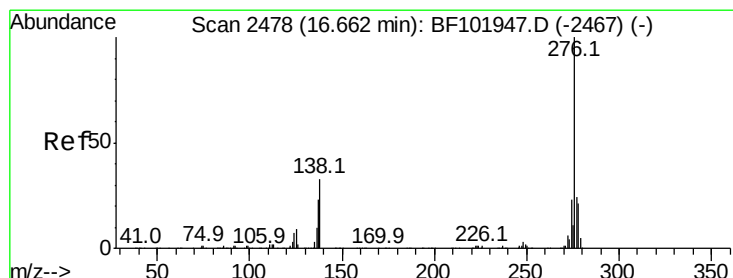
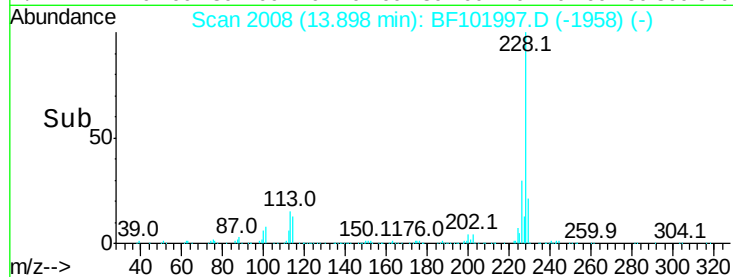
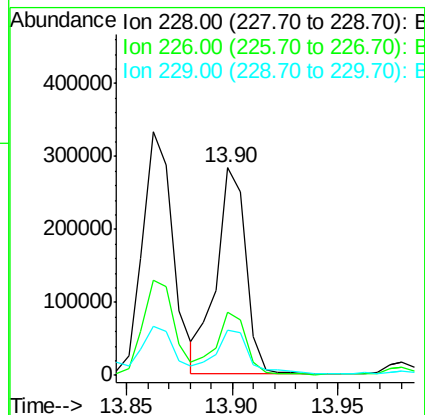
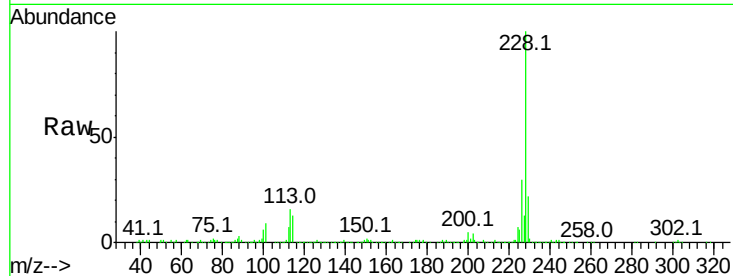
ClientSampleId :

WC-14767779-01

Tot Ion:	228	Resp:	275423
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.0	37.6
229	21.9	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 9.913 ng

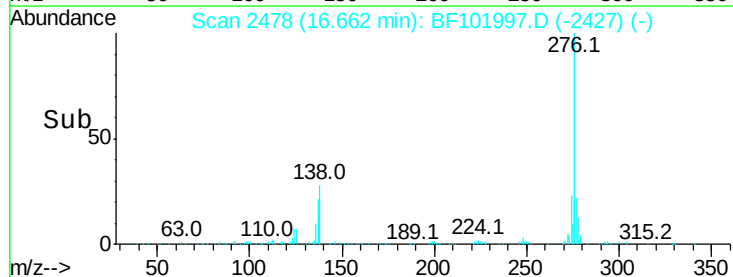
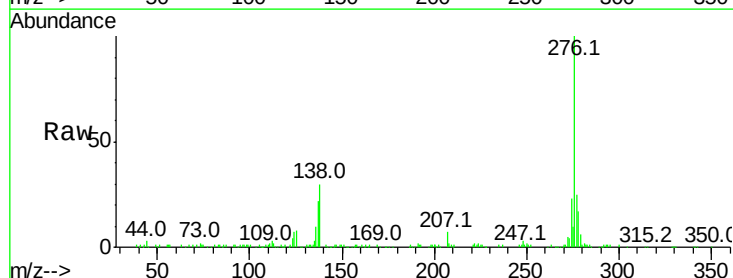
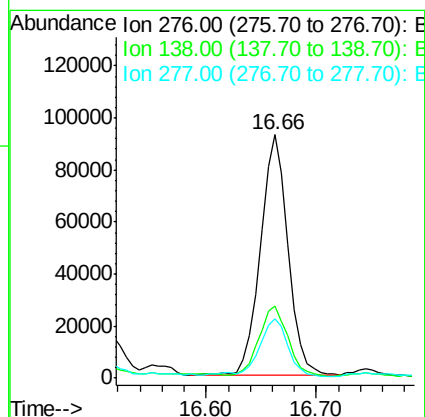
RT: 16.66 min Scan# 2478

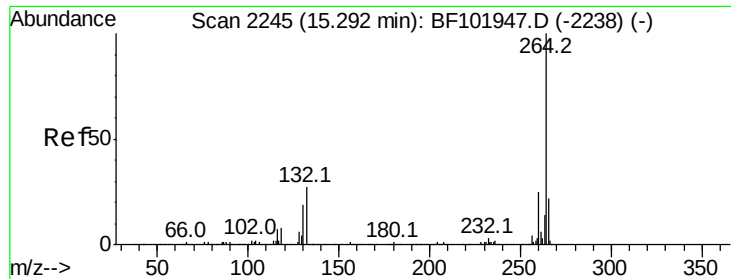
Delta R.T. 0.00 min

Lab File: BF101997.D

Acq: 10 Jan 2018 23:30

Tgt Ion:	276	Resp:	162726
Ion Ratio	Lower	Upper	
276	100		
138	30.8	25.0	37.6
277	25.3	20.1	30.1





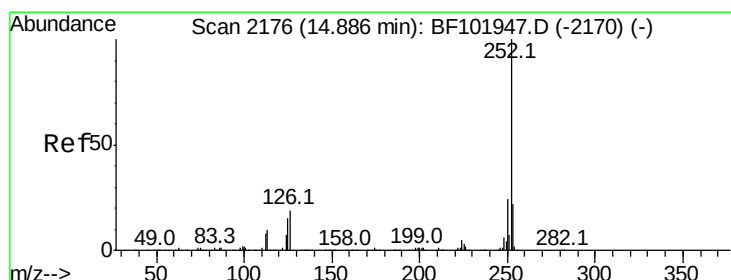
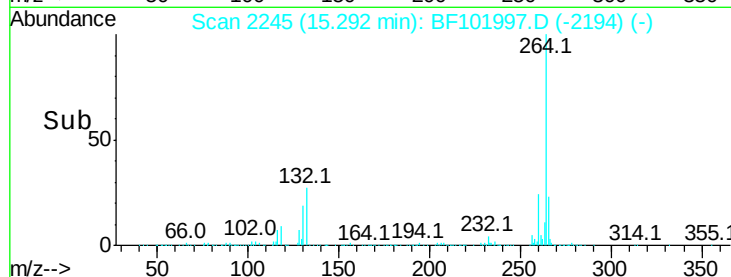
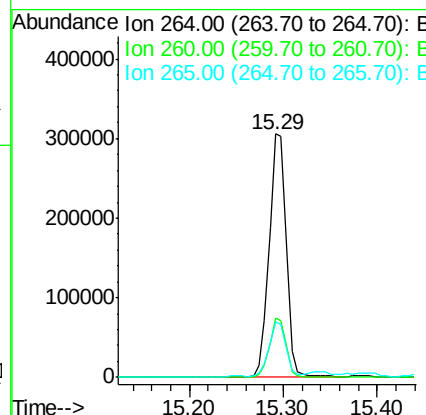
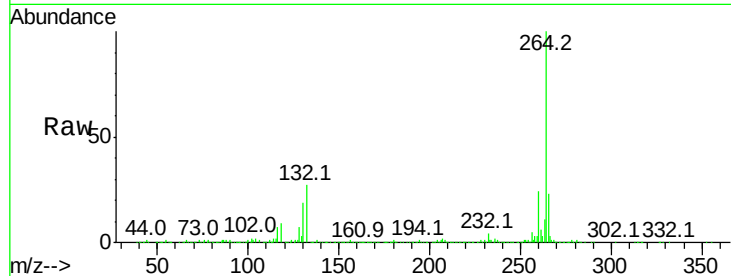
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Instrument :
BNA_F
ClientSampleId :
WC-14767779-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	22.6	17.5	26.3

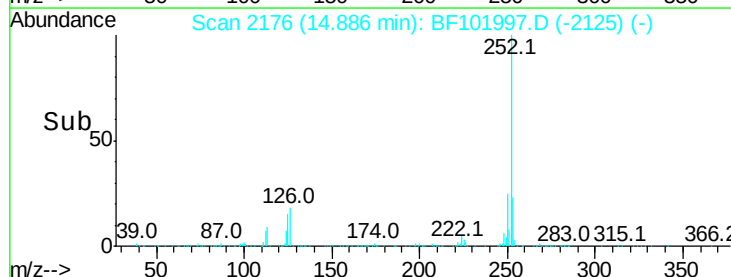
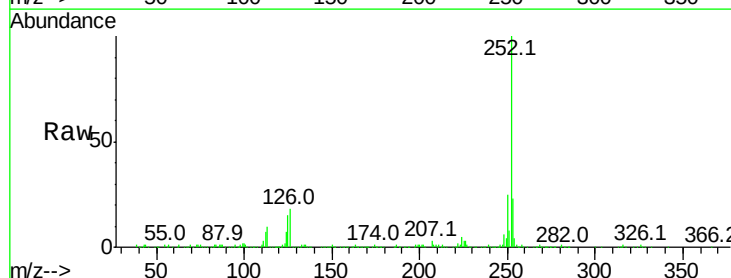
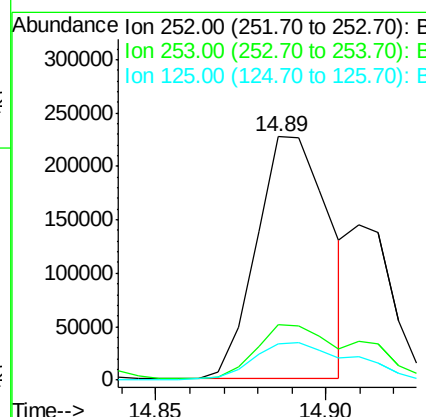
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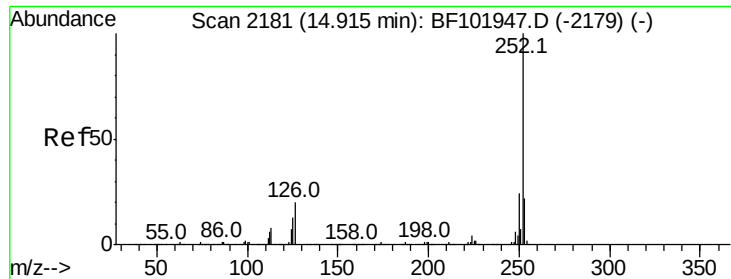
Sohil
1/11/2018 10:53:13 AM



#87
Benzo(b)fluoranthene
Concen: 13.331 ng m
RT: 14.89 min Scan# 2176
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	15.1	9.0	13.6





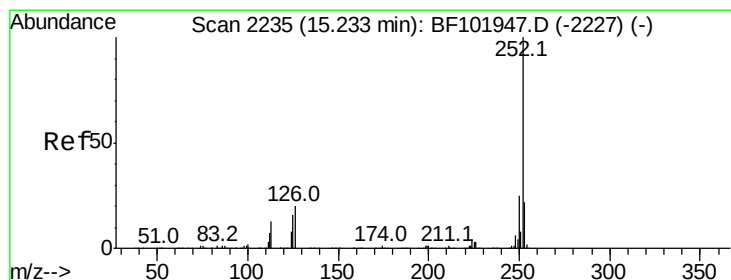
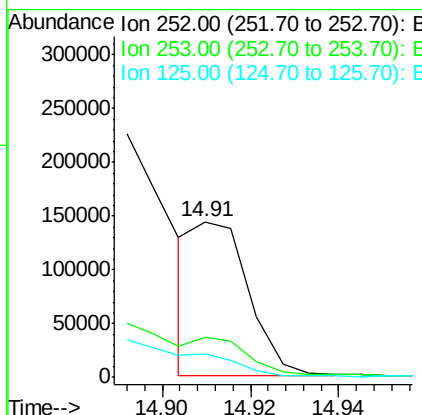
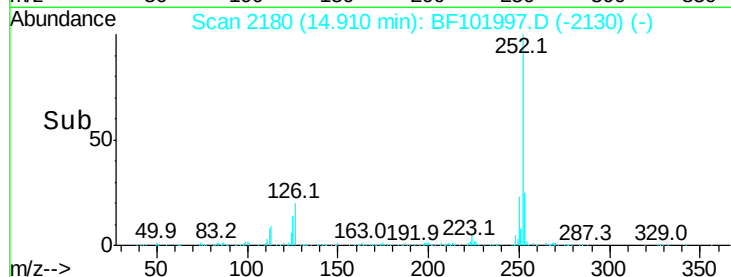
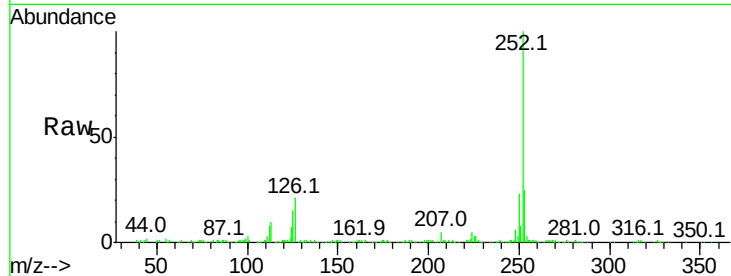
#88
Benzo(k)fluoranthene
Concen: 5.052 ng m
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Instrument :
BNA_F
ClientSampleId :
WC-14767779-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.9	26.9
125	14.8	10.2	15.2

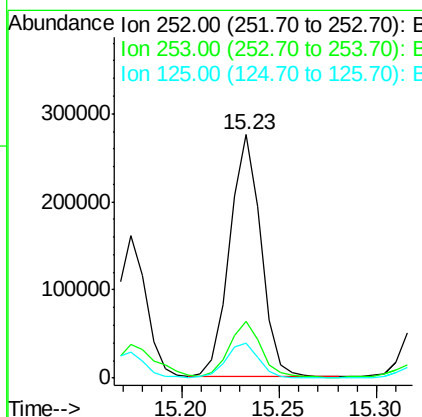
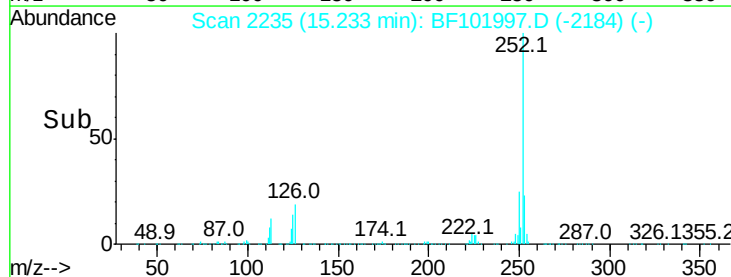
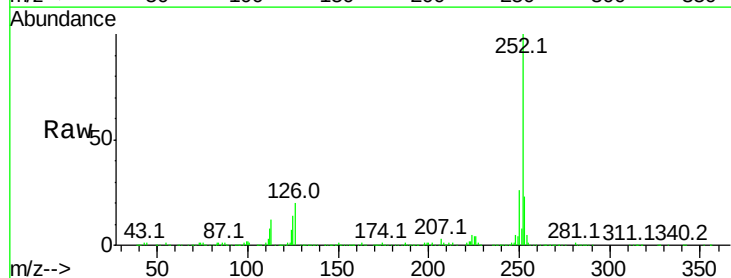
Manual Integrations
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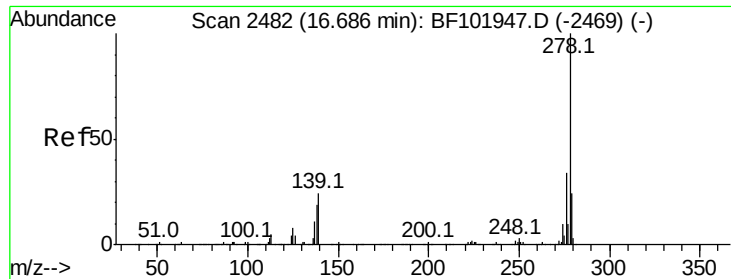
Sohil
1/11/2018 10:53:13 AM



#89
Benzo(a)pyrene
Concen: 13.399 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.00 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	14.4	9.8	14.6





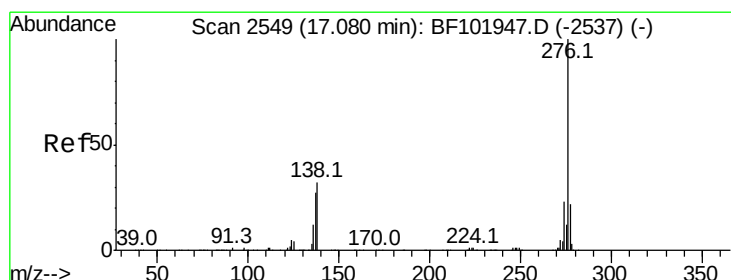
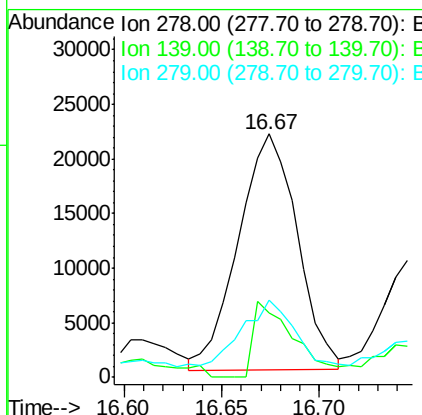
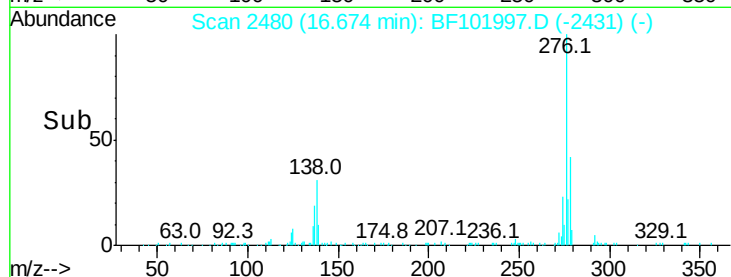
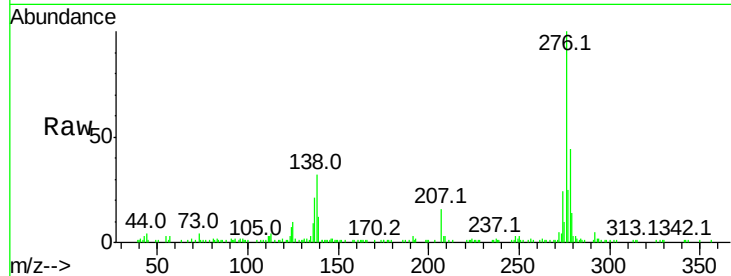
#90
Dibenzo(a,h)anthracene
Concen: 2.508 ng
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Instrument :
BNA_F
ClientSampleId :
WC-14767779-01

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.4	15.9	23.9#
279	31.5	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:13 AM



#91
Benzo(g,h,i)perylene
Concen: 8.613 ng
RT: 17.07 min Scan# 2548
Delta R.T. -0.01 min
Lab File: BF101997.D
Acq: 10 Jan 2018 23:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	31.1	21.8	32.8

