

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101990.D
 Acq On : 10 Jan 2018 20:23
 Operator : SJ/JU
 Sample : J1076-07 50X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-02

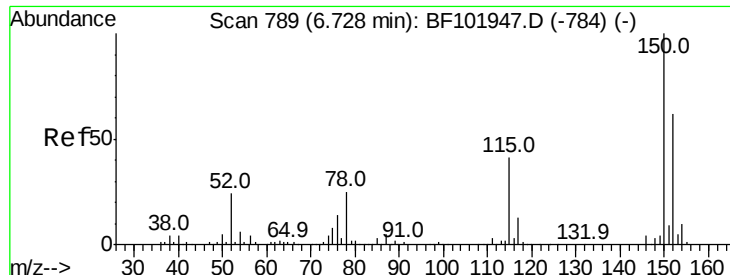
Manual Integrations
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Quant Time: Jan 11 03:55:52 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	215892	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	895629	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	390387	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	619859	20.00	ng	0.00
75) Chrysene-d12	13.87	240	340268	20.00	ng	0.00
86) Perylene-d12	15.29	264	365417	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6692	0.44	ng	0.00
7) Phenol-d6	6.35	99	8421	0.46	ng	0.00
23) Nitrobenzene-d5	7.28	82	4558	0.30	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1272	0.37	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	8725	0.35	ng	-0.01
78) Terphenyl-d14	12.82	244	7347	0.45	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.03	128	2747923	61.402	ng	98
37) 2-Methylnaphthalene	8.72	142	405111	13.750	ng	99
45) 1,1'-Biphenyl	9.19	154	95103	2.756	ng	94
48) Acenaphthylene	9.62	152	355334	8.368	ng	100
51) Acenaphthene	9.79	154	214738	8.332	ng	99
54) Dibenzofuran	9.96	168	369041	10.433	ng	98
57) Fluorene	10.31	166	391597	16.014	ng	99
70) Phenanthrene	11.27	178	1404230	38.782	ng	99
71) Anthracene	11.32	178	493897	13.450	ng	99
72) Carbazole	11.47	167	136101	3.771	ng	99
74) Fluoranthene	12.46	202	931291	26.142	ng	98
77) Pylene	12.68	202	731059	24.306	ng	100
80) Benzo(a)anthracene	13.86	228	285634m	13.157	ng	
82) Chrysene	13.90	228	229592	10.142	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	135087	8.199	ng	98
87) Benzo(b)fluoranthene	14.89	252	264204m	11.089	ng	
88) Benzo(k)fluoranthene	14.91	252	99522m	4.330	ng	
89) Benzo(a)pyrene	15.23	252	235698	10.993	ng	98
90) Dibenzo(a,h)anthracene	16.67	278	35932m	2.100	ng	
91) Benzo(a,h,i)perylene	17.07	276	125500	7.282	ng	# 92

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



#1

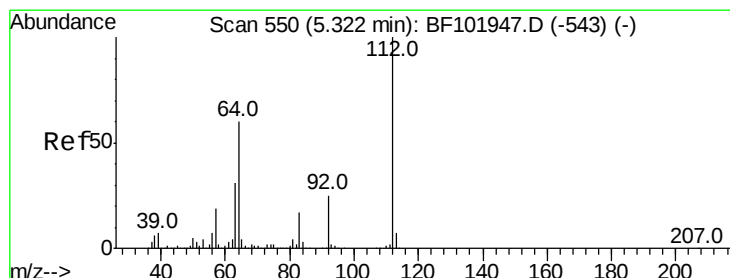
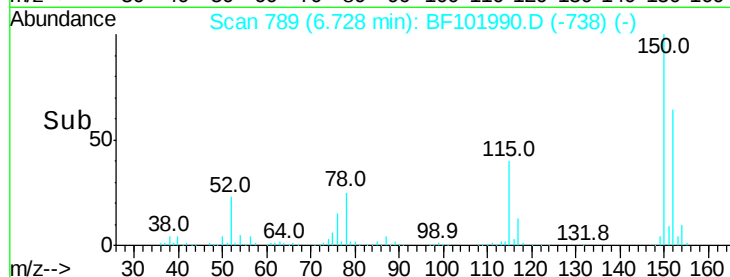
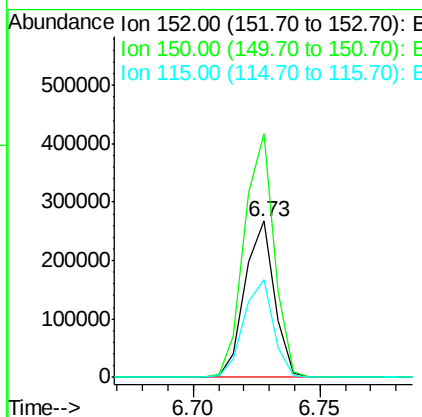
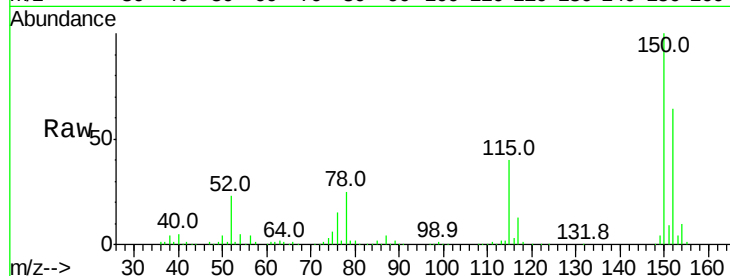
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Instrument :
BNA_F
ClientSampled :
WC-14R30-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.6	186.8
115	62.4	50.1	75.1

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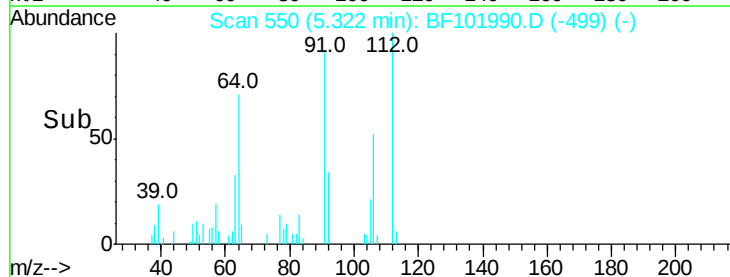
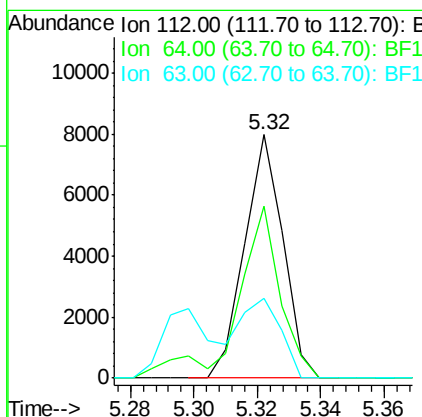
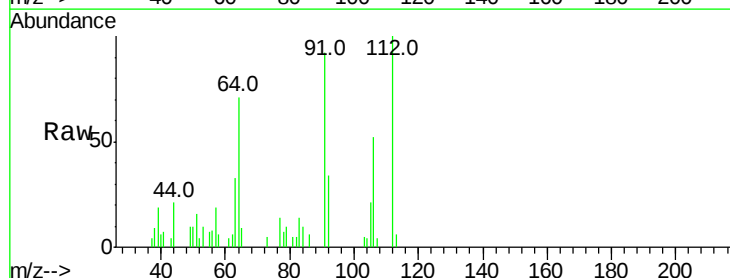
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#5

2-Fluorophenol
Concen: 0.438 ng
RT: 5.32 min Scan# 550
Delta R.T. -0.00 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.6	47.9	71.9
63	32.5	23.7	35.5





#7

Phenol-d6

Concen: 0.462 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Instrument :

BNA_F

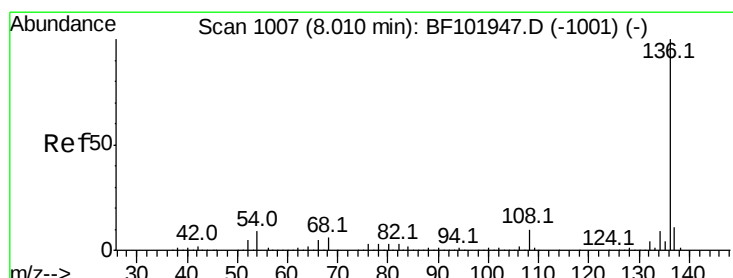
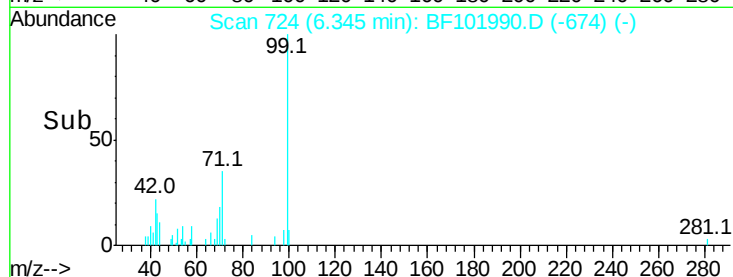
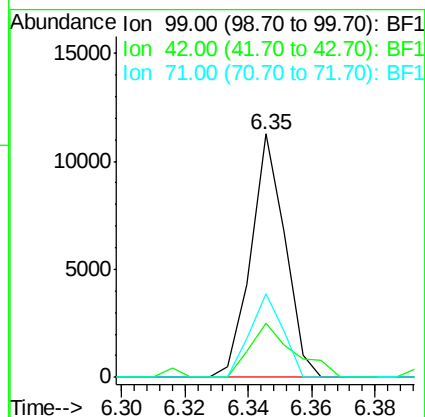
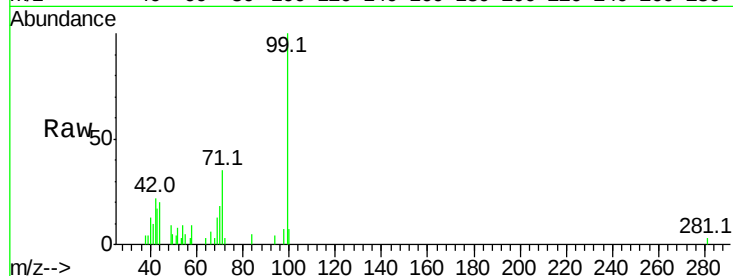
ClientSampled :

WC-14R30-02

Tot Ion:	99	Resp:	8421
Ion Ratio	Lower	Upper	
99	100		
42	22.4	14.5	21.7#
71	34.5	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

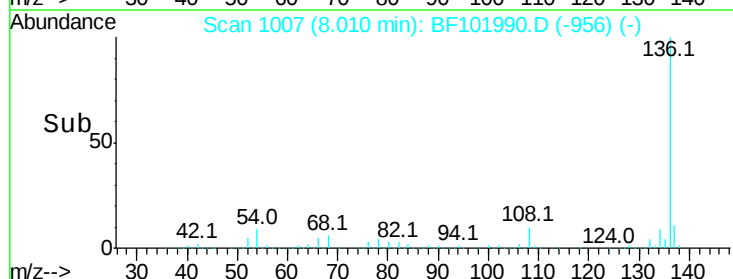
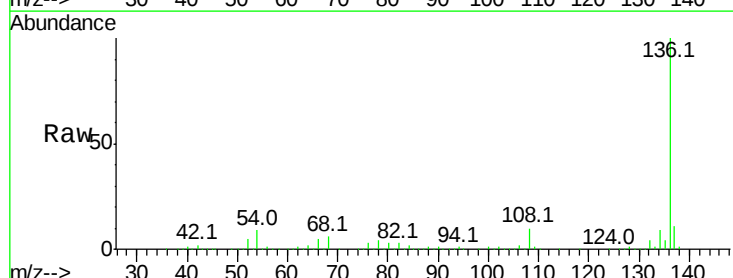
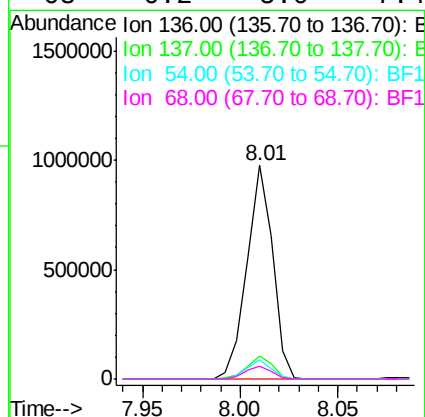
RT: 8.01 min Scan# 1007

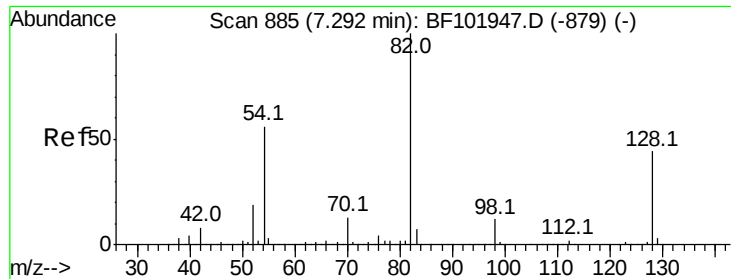
Delta R.T. -0.00 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Tgt Ion:	136	Resp:	895629
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	9.1	6.6	9.8
68	6.2	5.0	7.4





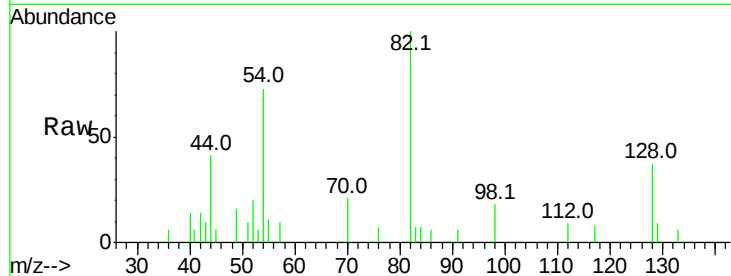
#23
 Nitrobenzene-d5
 Concen: 0.299 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-02

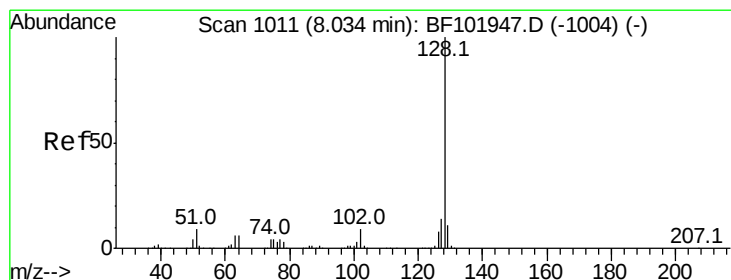
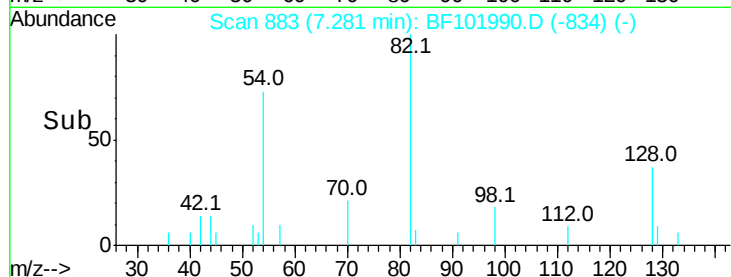
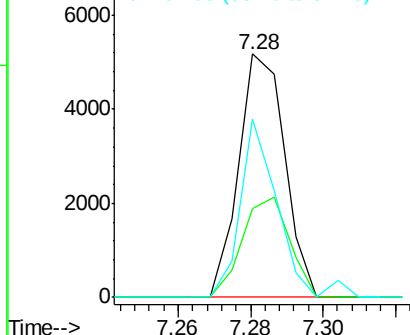
Tot Ion	Ratio	Lower	Upper
82	100		
128	36.6	36.1	54.1
54	73.5	41.4	62.2#

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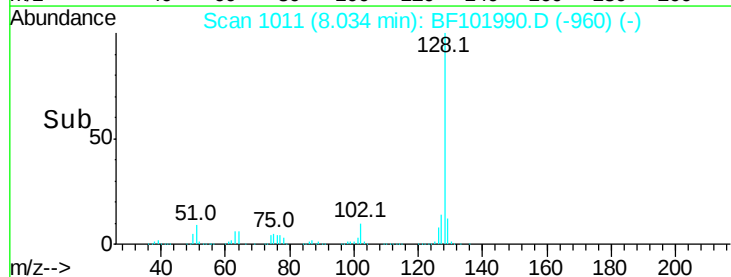
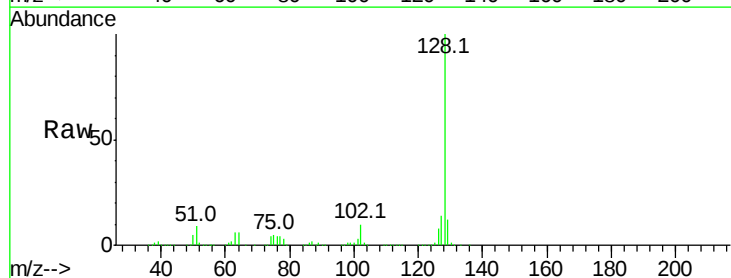
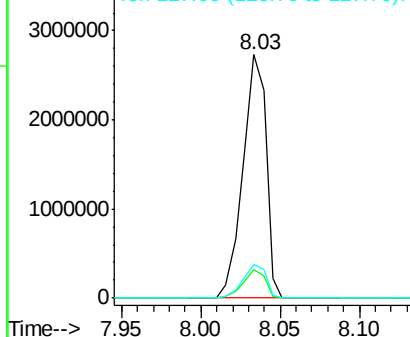
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 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

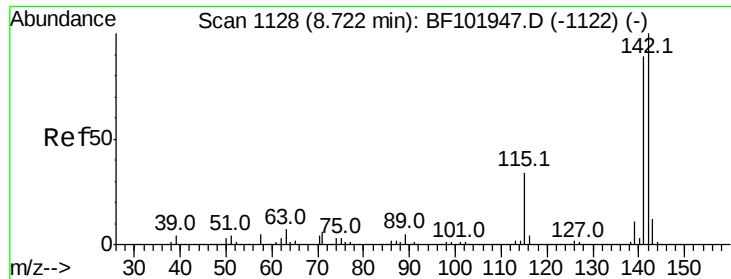


#31
 Naphthalene
 Concen: 61.402 ng
 RT: 8.03 min Scan# 1011
 Delta R.T. -0.00 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.8	13.2
127	14.0	10.9	16.3

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





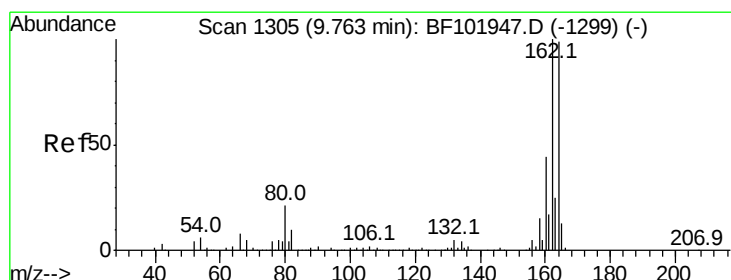
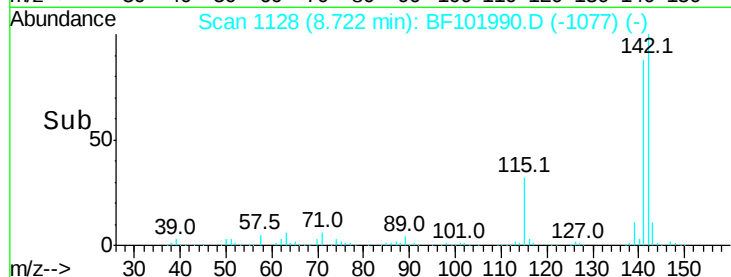
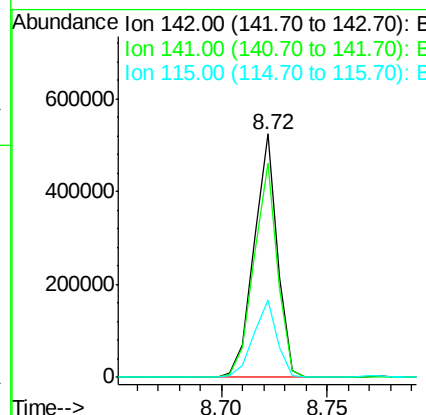
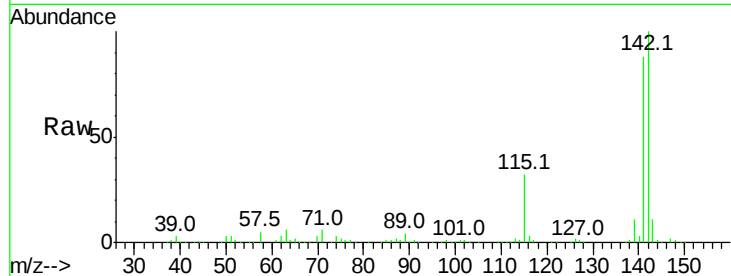
#37
 2-Methylnaphthalene
 Concen: 13.750 ng
 RT: 8.72 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-02

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.8	106.2
115	31.8	26.1	39.1

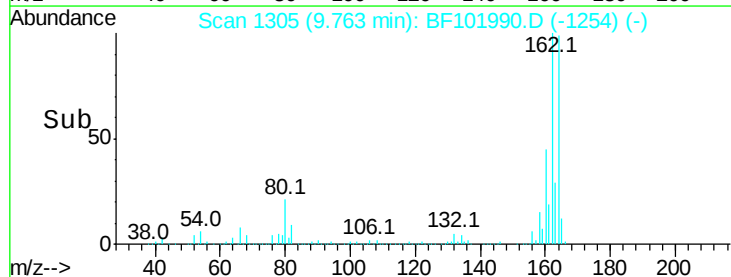
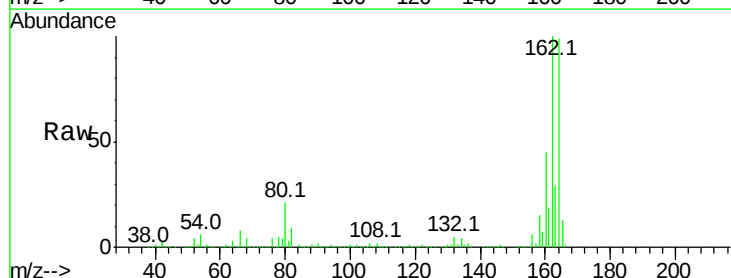
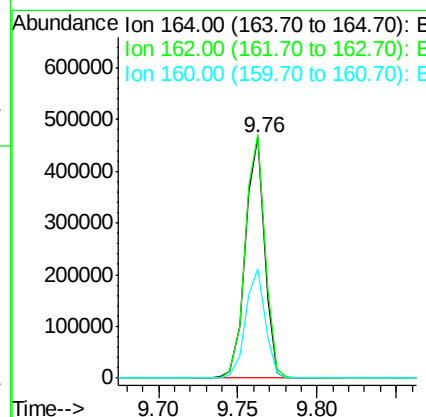
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.1	86.1	129.1
160	45.5	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 0.373 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Instrument :

BNA_F

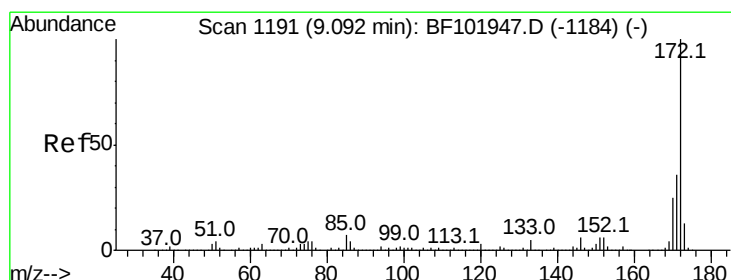
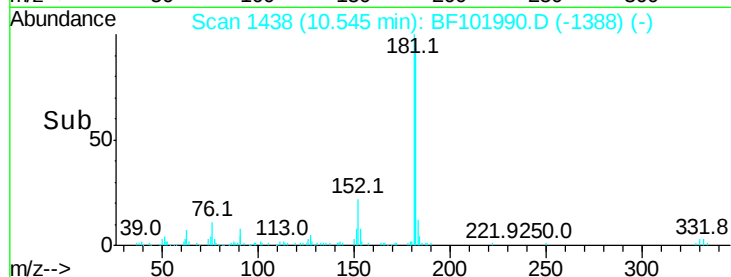
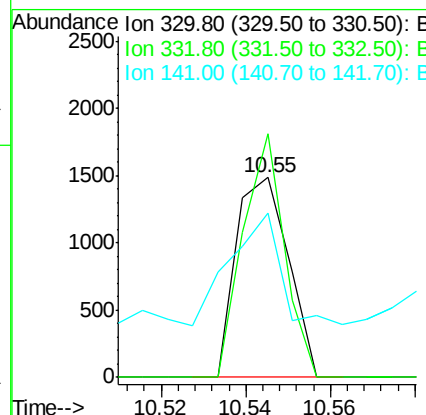
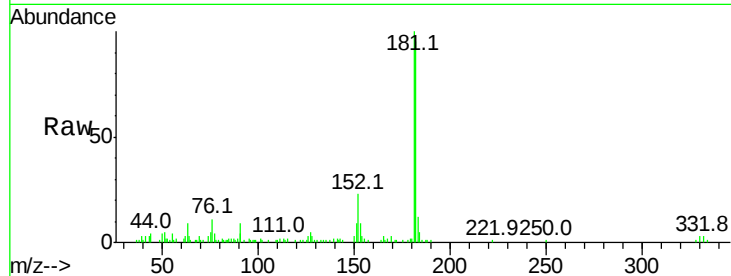
ClientSampleId :

WC-14R30-02

Tot Ion:	330	Resp:	1272
Ion Ratio	Lower	Upper	
330	100		
332	96.1	77.0	115.6
141	59.3	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 0.349 ng

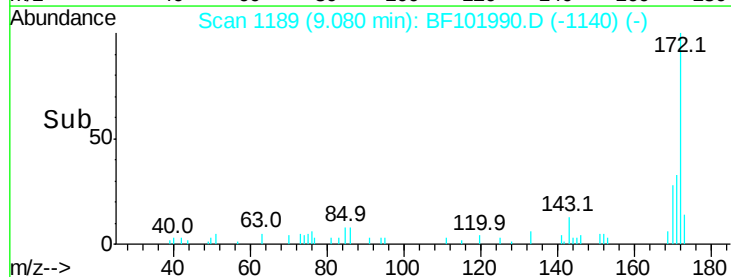
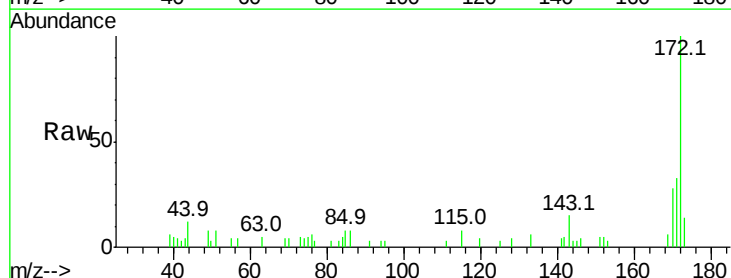
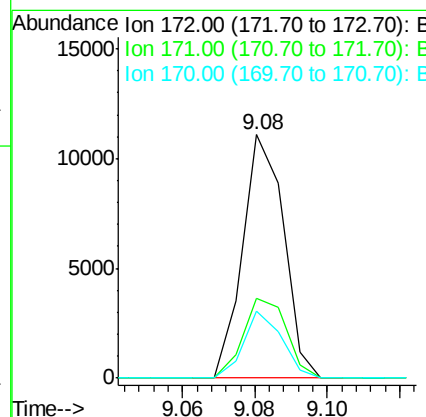
RT: 9.08 min Scan# 1189

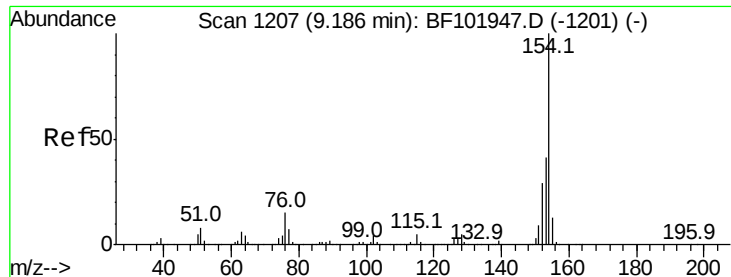
Delta R.T. -0.01 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Tgt Ion:	172	Resp:	8725
Ion Ratio	Lower	Upper	
172	100		
171	32.6	29.7	44.5
170	27.6	19.6	29.4





#45

1,1'-Biphenyl

Concen: 2.756 ng

RT: 9.19 min Scan# 1207

Delta R.T. -0.00 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Instrument :

BNA_F

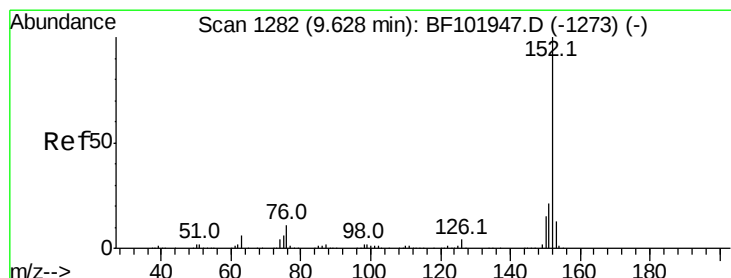
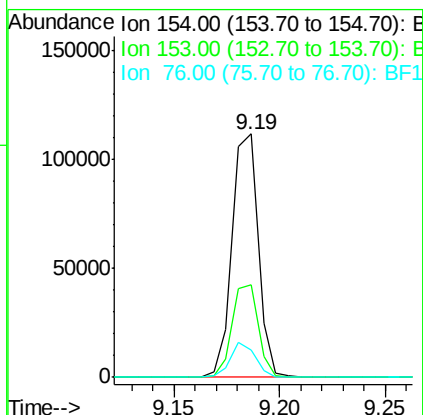
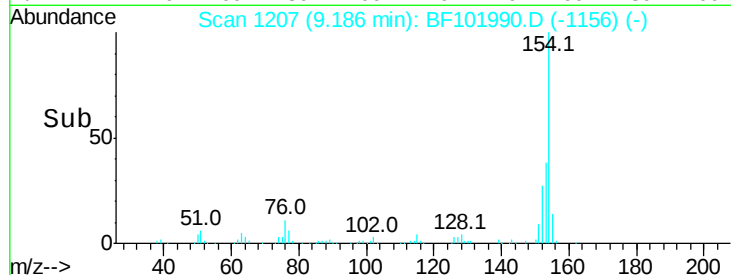
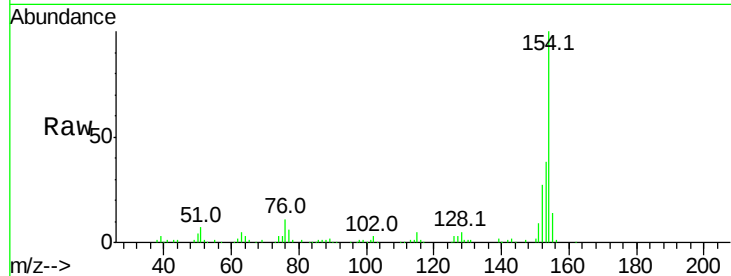
ClientSampled :

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Tot Ion:	154	Resp:	95103
Ion Ratio	Lower	Upper	
154	100		
153	38.1	21.3	61.3
76	11.0	0.0	34.0

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#48

Acenaphthylene

Concen: 8.368 ng

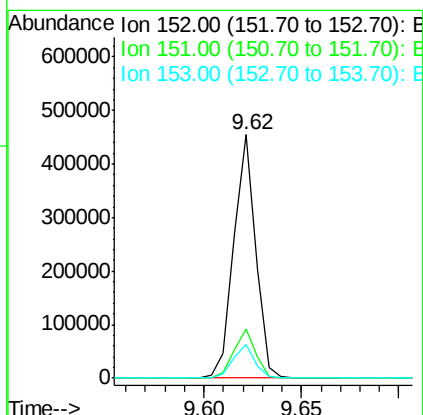
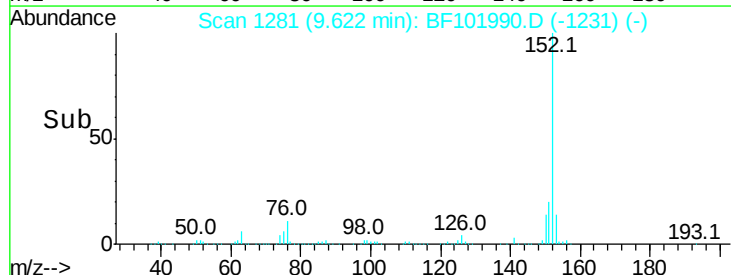
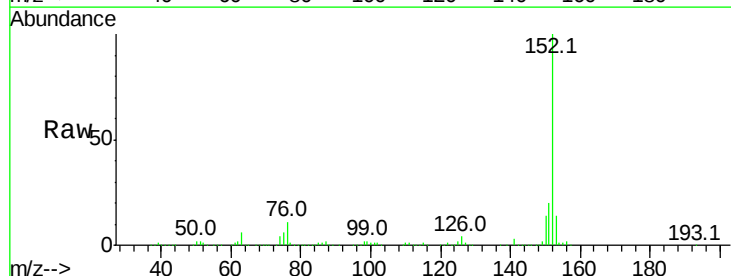
RT: 9.62 min Scan# 1281

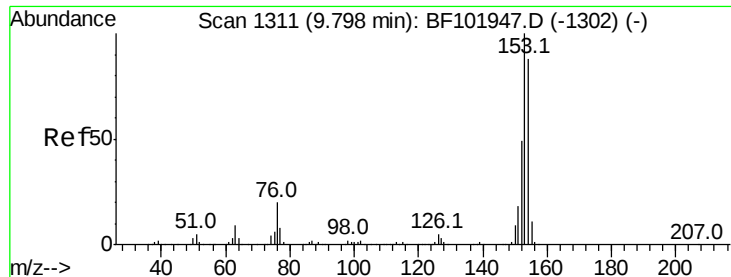
Delta R.T. -0.01 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Tgt Ion:	152	Resp:	355334
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.3	24.5
153	13.6	10.7	16.1





#51

Acenaphthene

Concen: 8.332 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Instrument :

BNA_F

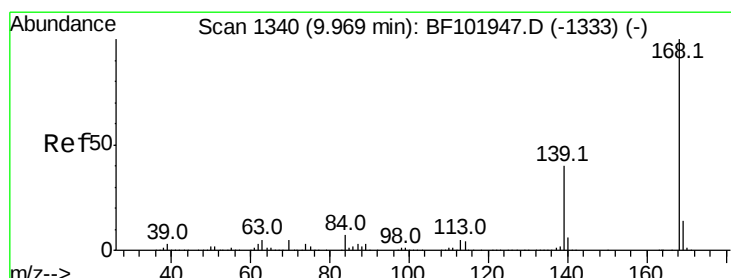
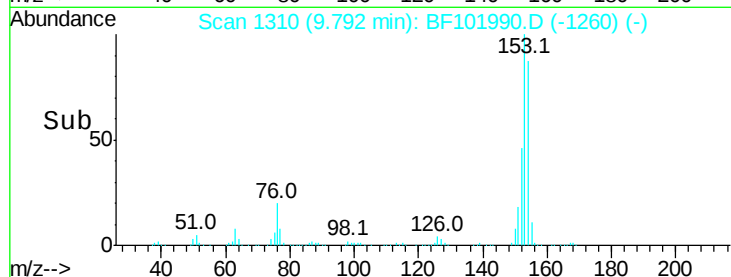
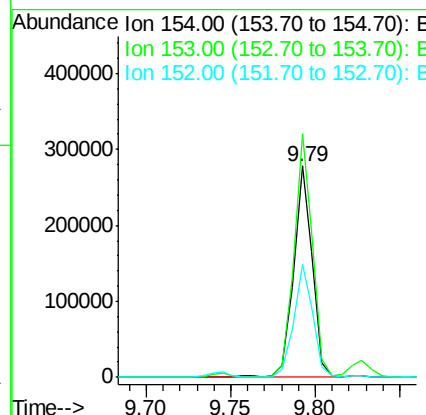
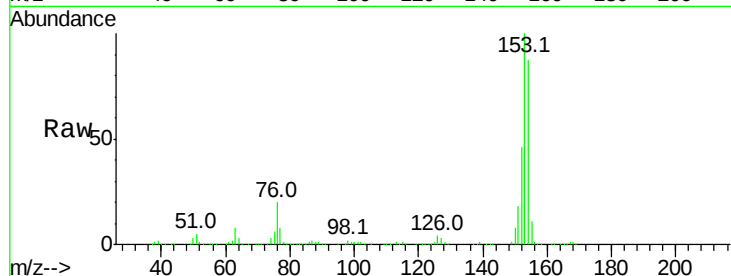
ClientSampleId :

WC-14R30-02

Tot Ion:	154	Resp:	214738
Ion Ratio	Lower	Upper	
154	100		
153	115.1	91.2	136.8
152	53.5	43.8	65.8

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#54

Dibenzofuran

Concen: 10.433 ng

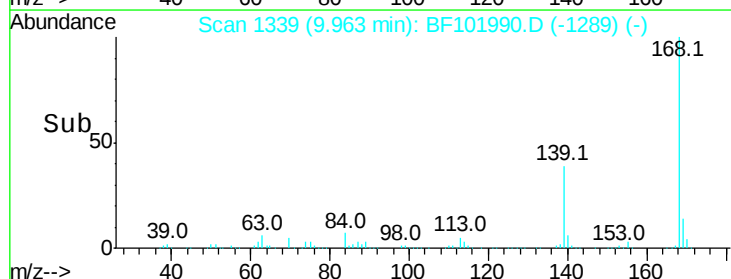
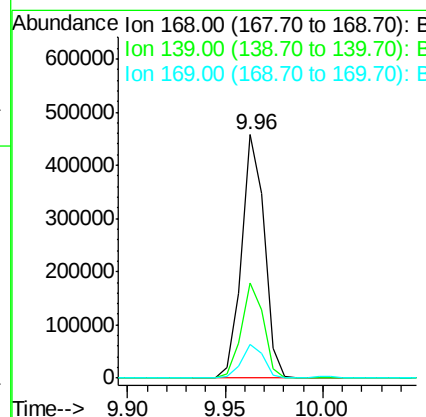
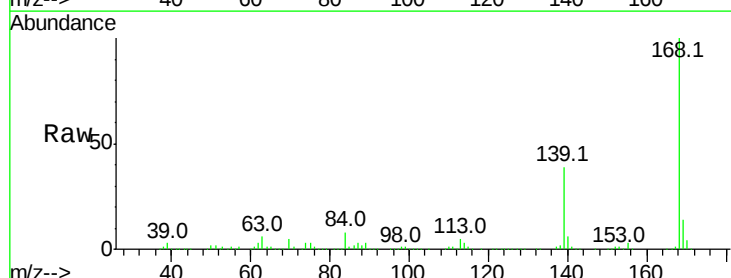
RT: 9.96 min Scan# 1339

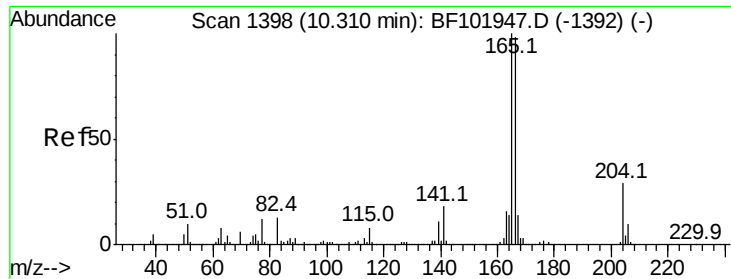
Delta R.T. -0.01 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Tgt Ion:	168	Resp:	369041
Ion Ratio	Lower	Upper	
168	100		
139	39.1	30.1	45.1
169	13.8	10.9	16.3





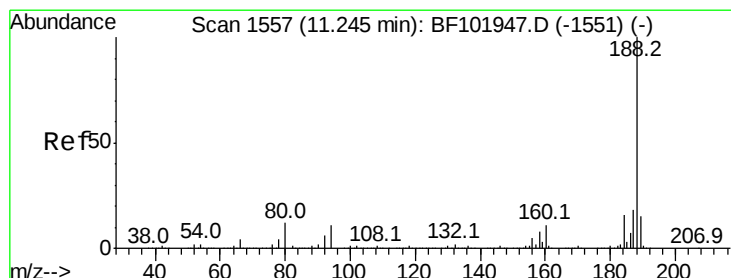
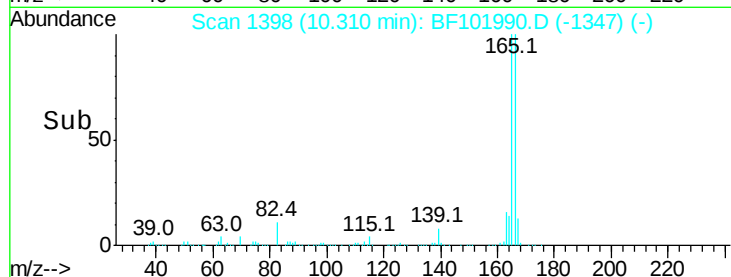
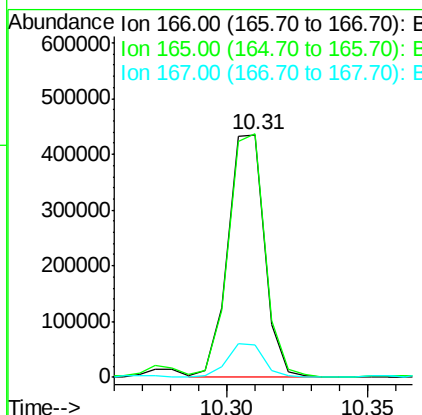
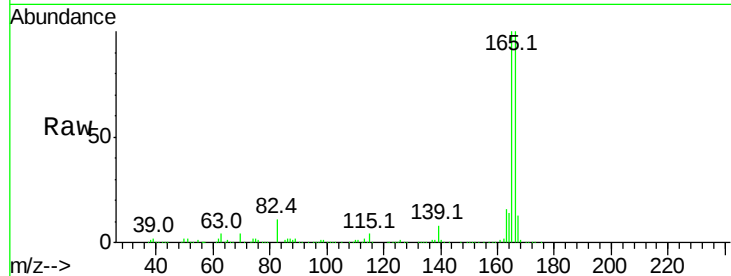
#57
Fluorene
 Concen: 16.014 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. 0.00 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-02

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.4	79.8	119.8
167	13.3	10.6	16.0

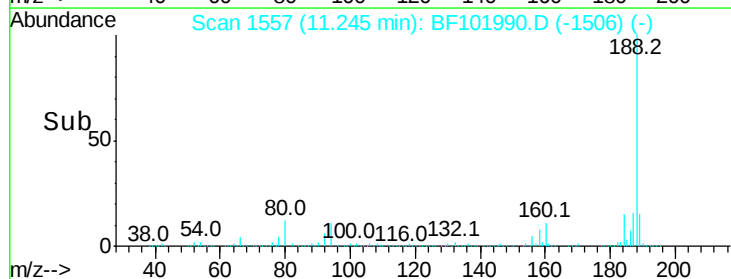
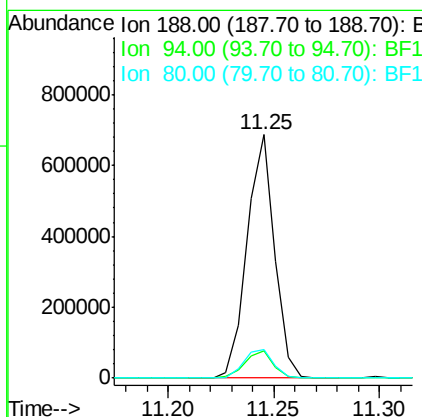
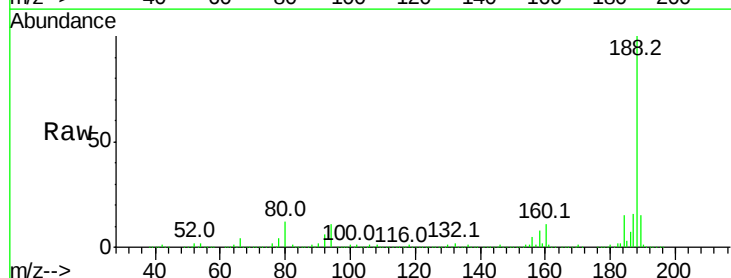
Manual Integrations
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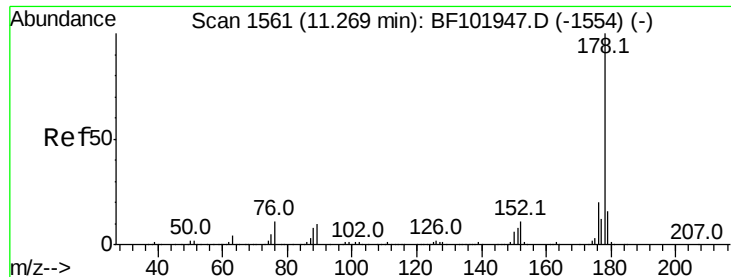
Sohil
 1/11/2018 10:52:57 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. -0.00 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.5	12.7
80	11.9	9.2	13.8





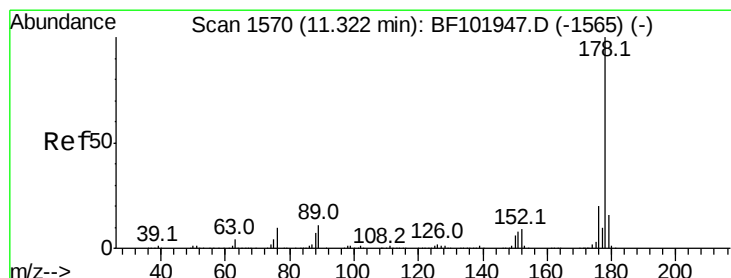
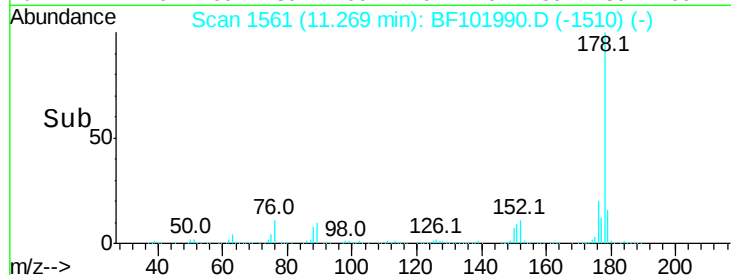
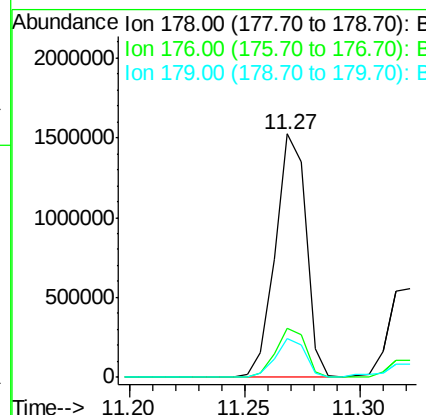
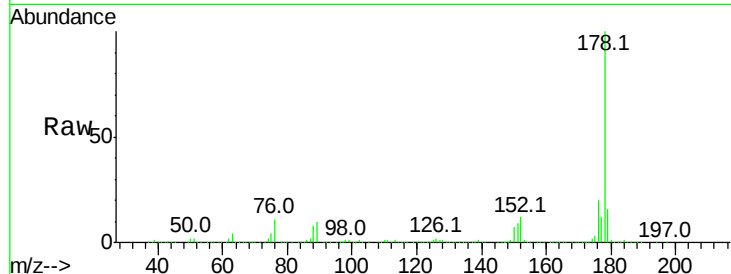
#70
Phenanthrene
Concen: 38.782 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.00 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Instrument :
BNA_F
ClientSampleId :
WC-14R30-02

Tot Ion:178 Resp: 1404230
Ion Ratio Lower Upper
178 100
176 20.2 15.8 23.8
179 16.0 13.0 19.6

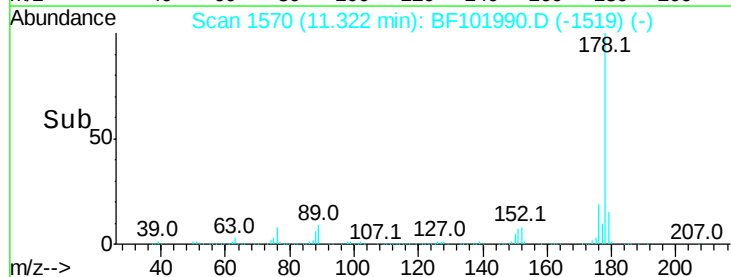
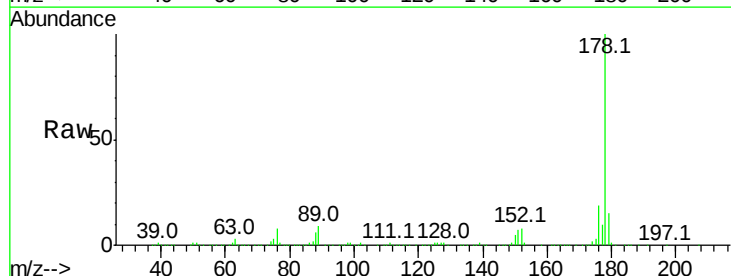
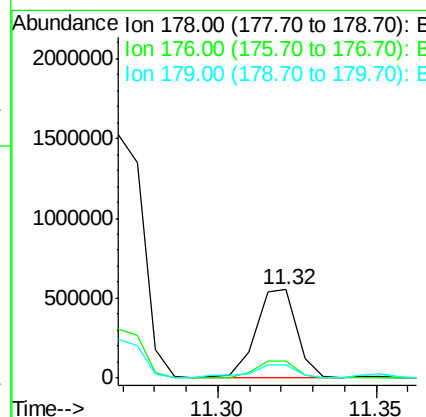
Manual Integrations
APPROVED

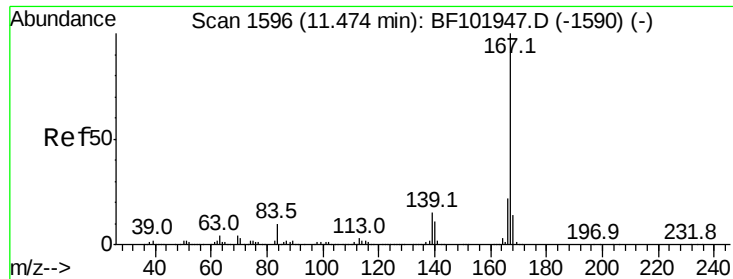
Sohil
1/11/2018 10:52:57 AM



#71
Anthracene
Concen: 13.450 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.00 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Tgt Ion:178 Resp: 493897
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 14.8 12.6 19.0





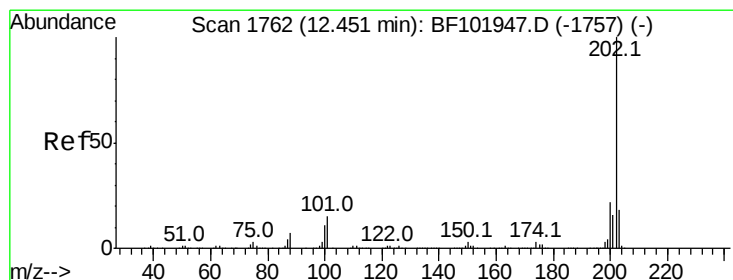
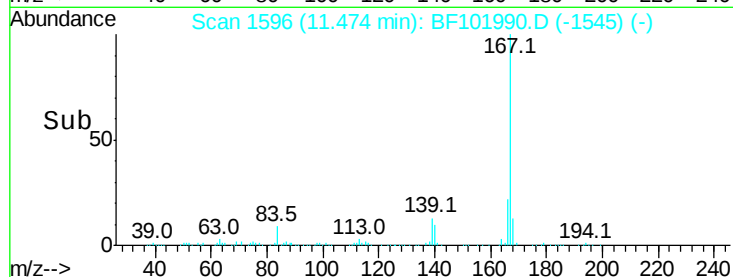
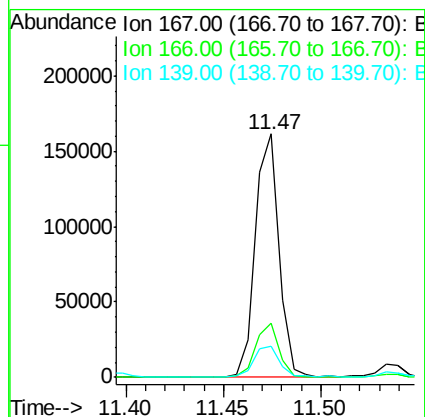
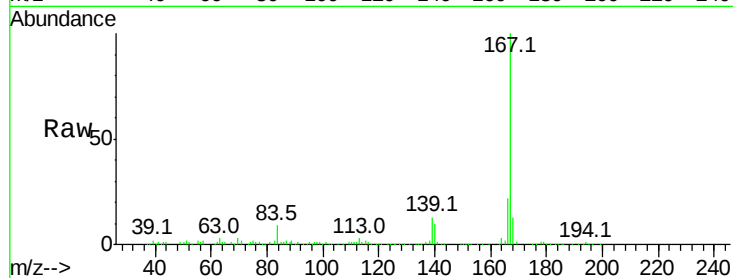
#72
 Carbazole
 Concen: 3.771 ng
 RT: 11.47 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-02

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.6	26.4
139	13.0	10.9	16.3

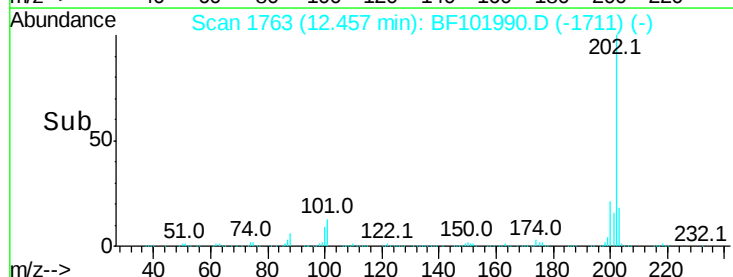
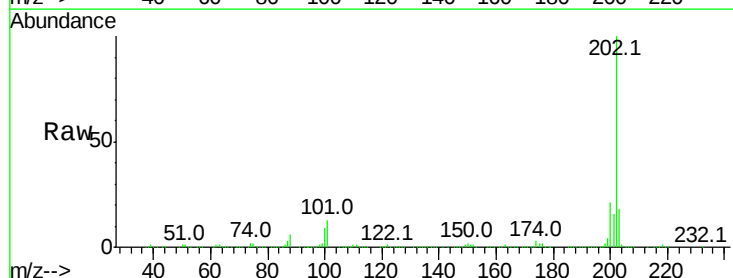
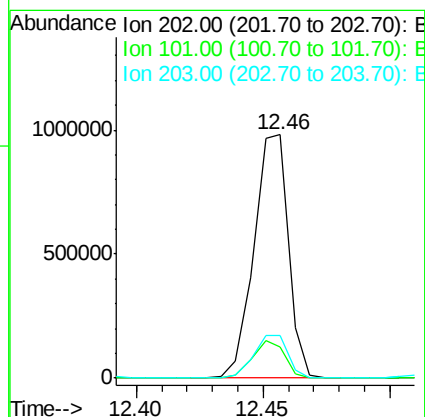
Manual Integrations
 APPROVED

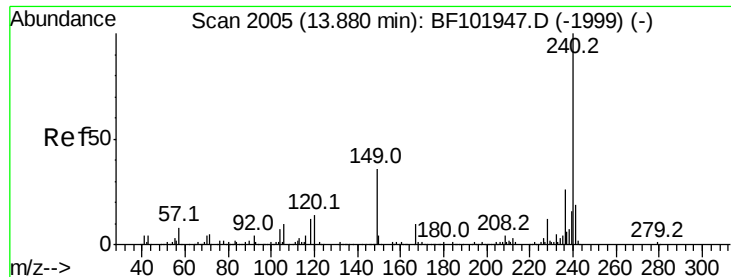
Sohil
 1/11/2018 10:52:57 AM



#74
 Fluoranthene
 Concen: 26.142 ng
 RT: 12.46 min Scan# 1763
 Delta R.T. 0.01 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	34.1
203	17.5	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: BF101990.D

Acq: 10 Jan 2018 20:23

Instrument :

BNA_F

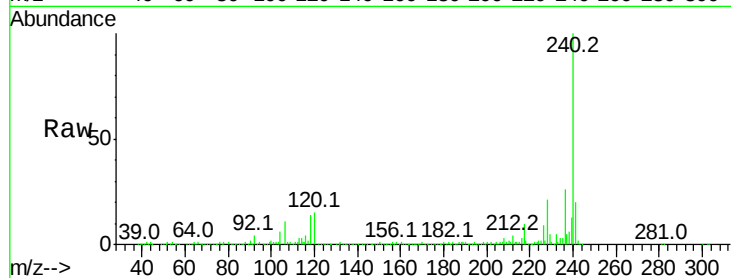
ClientSampleId :

WC-14R30-02

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.4	9.5	14.3#
236	26.0	20.7	31.1

Manual Integrations
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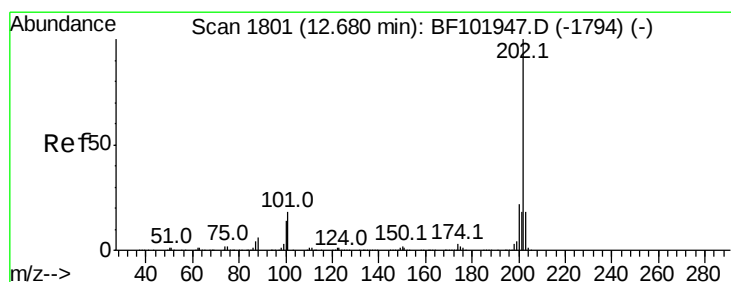
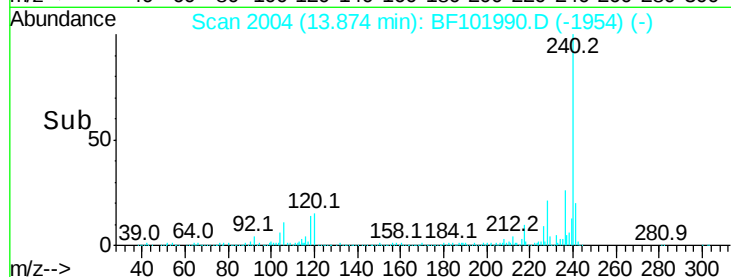
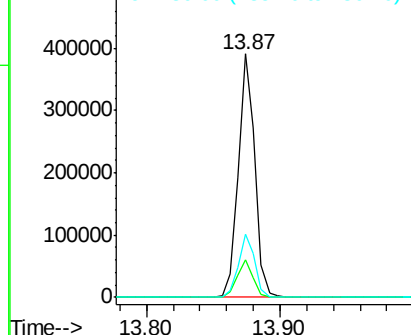


Abundance

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



#77

Pyrene

Concen: 24.306 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.00 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

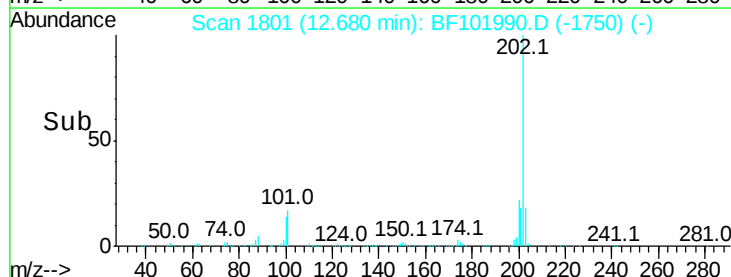
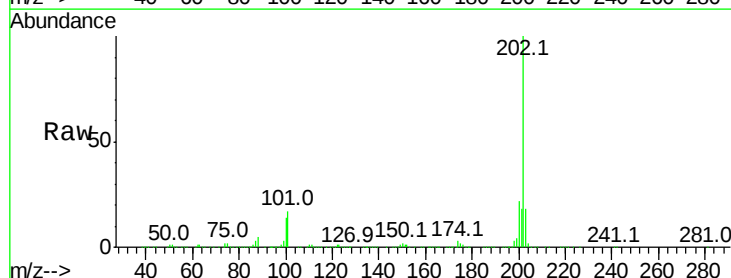
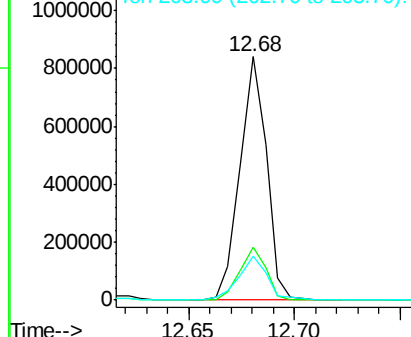
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.2
203	17.9	14.3	21.5

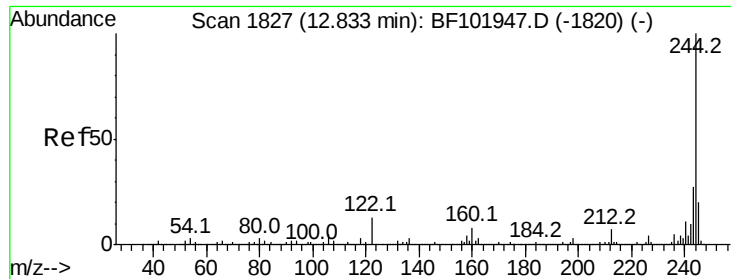
Abundance

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





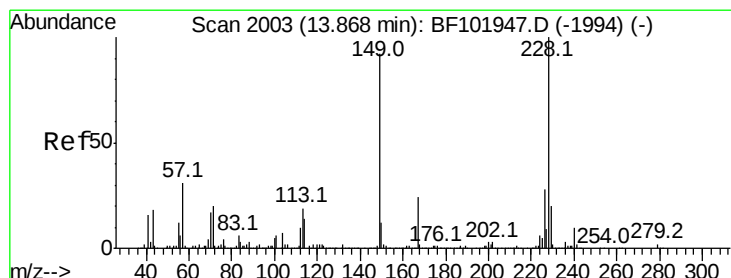
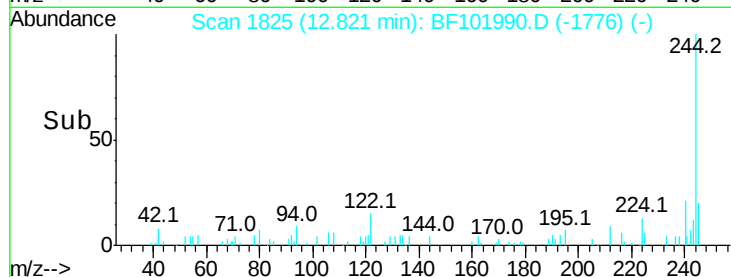
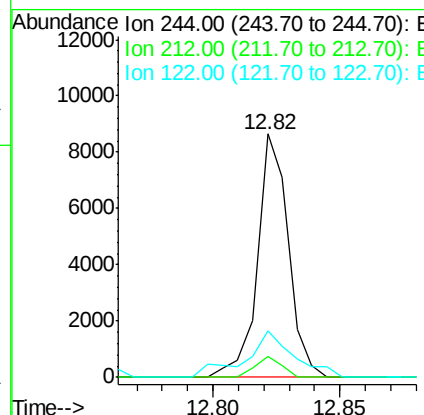
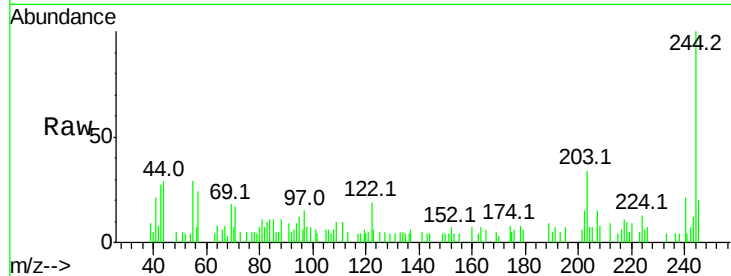
#78
 Terphenyl-d14
 Concen: 0.448 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Instrument :
 BNA_F
 ClientSampleId :
 WC-14R30-02

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.5	5.4	8.0#
122	19.2	11.0	16.4#

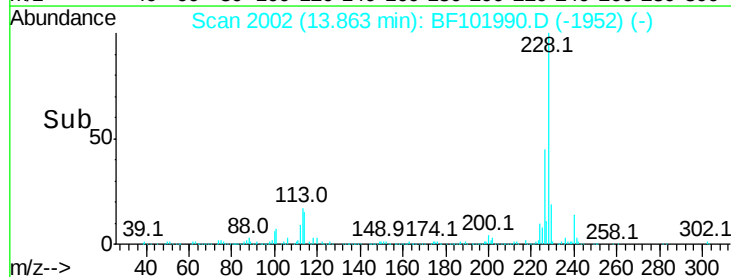
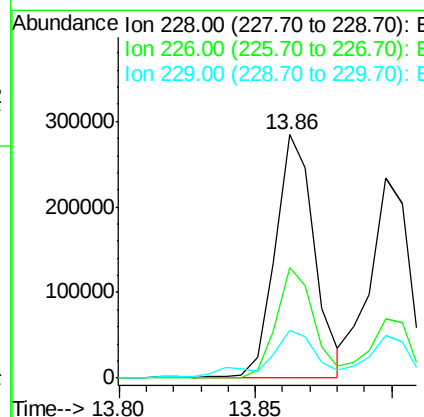
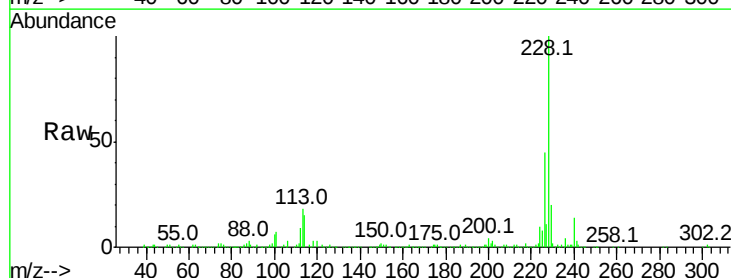
Manual Integrations
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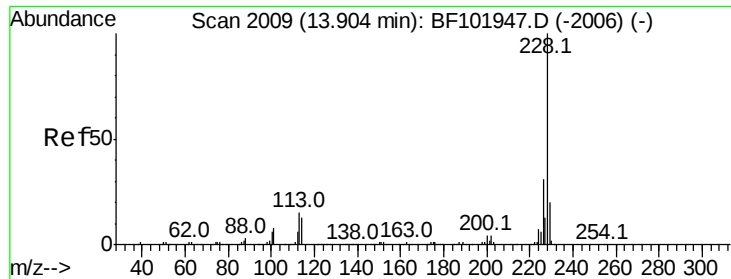
Sohil
 1/11/2018 10:52:57 AM



#80
 Benzo(a)anthracene
 Concen: 13.157 ng m
 RT: 13.86 min Scan# 2002
 Delta R.T. -0.01 min
 Lab File: BF101990.D
 Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	45.5	22.6	33.8#
229	19.8	15.8	23.6





#82

Chrysene

Concen: 10.142 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Instrument :

BNA_F

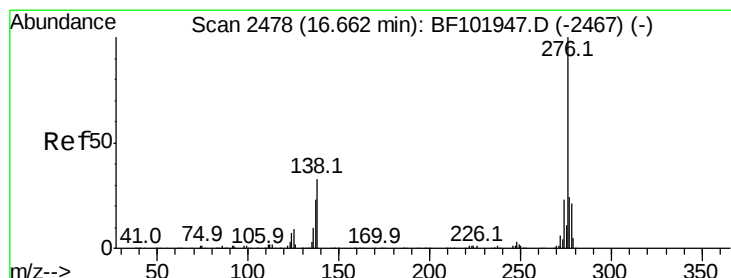
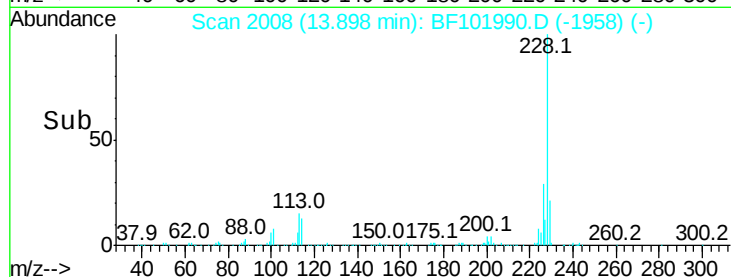
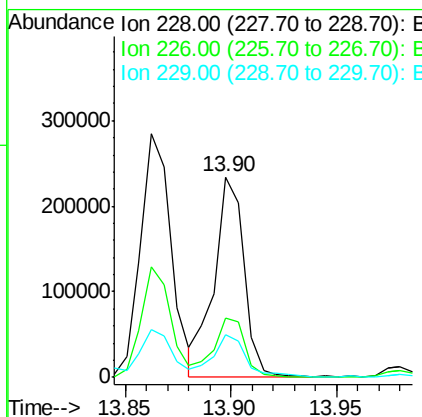
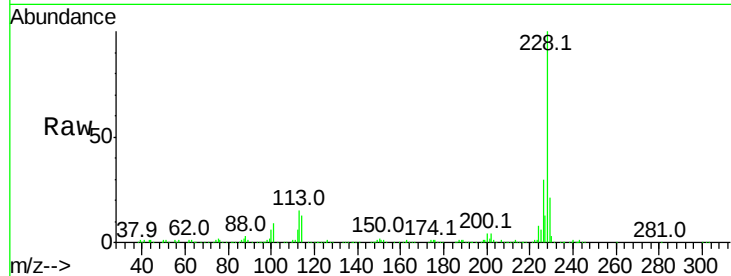
ClientSampleId :

WC-14R30-02

Tot Ion:	228	Resp:	229592
Ion Ratio	Lower	Upper	
228	100		
226	29.5	25.0	37.6
229	21.4	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 8.199 ng

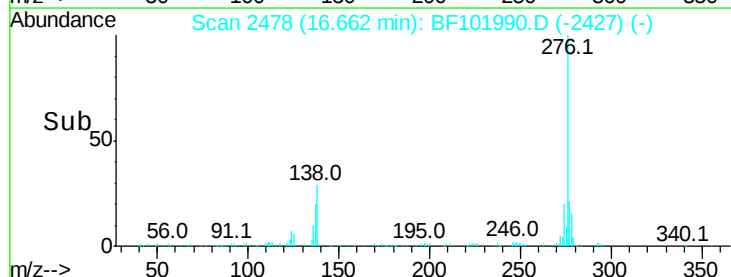
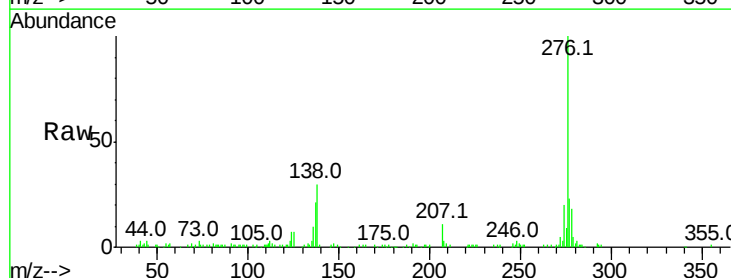
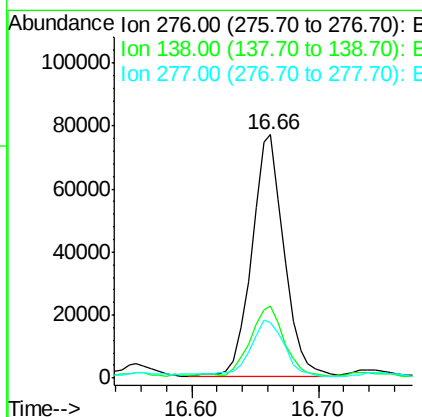
RT: 16.66 min Scan# 2478

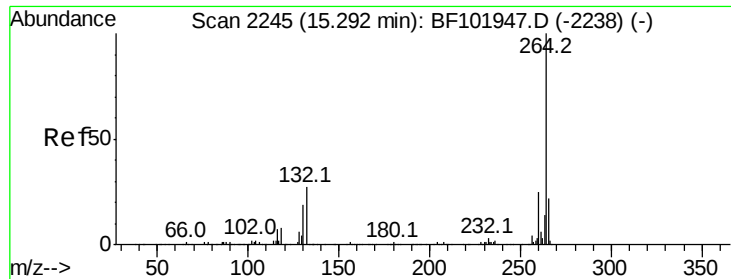
Delta R.T. -0.00 min

Lab File: BF101990.D

Acq: 10 Jan 2018 20:23

Tgt Ion:	276	Resp:	135087
Ion Ratio	Lower	Upper	
276	100		
138	30.6	25.0	37.6
277	26.2	20.1	30.1





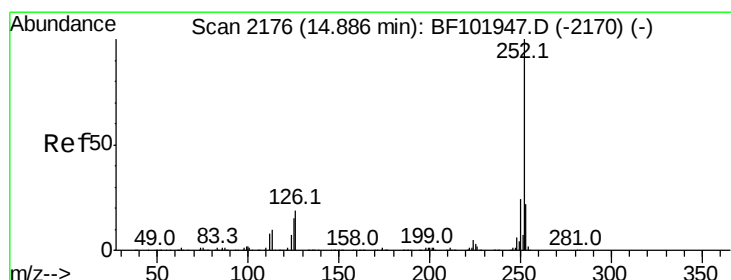
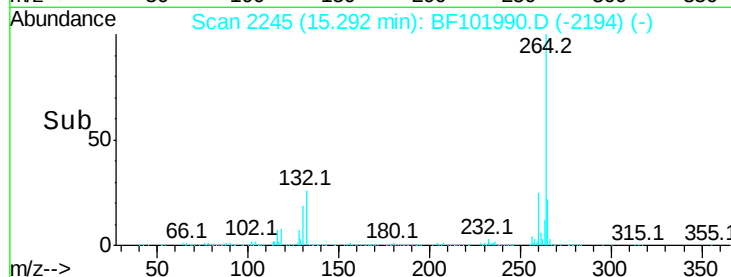
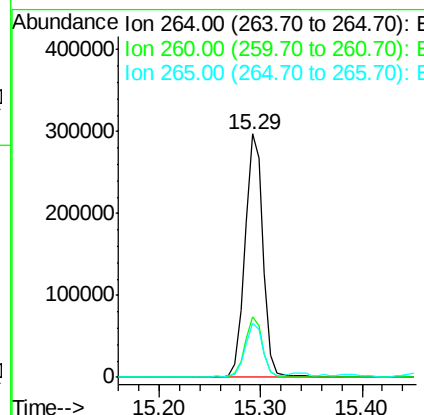
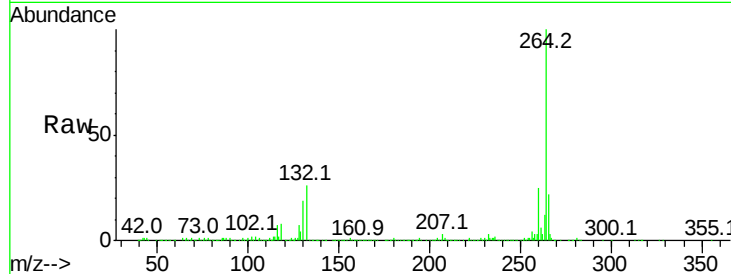
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Instrument :
BNA_F
ClientSampleId :
WC-14R30-02

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	22.1	17.5	26.3

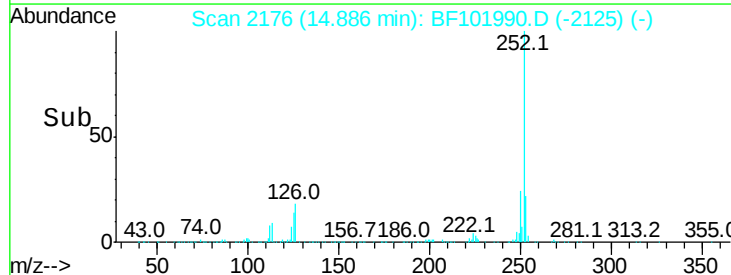
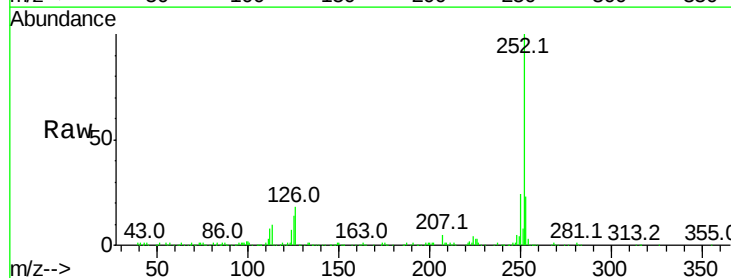
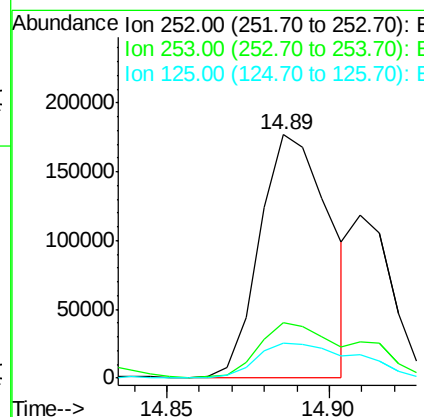
Manual Integrations
APPROVED

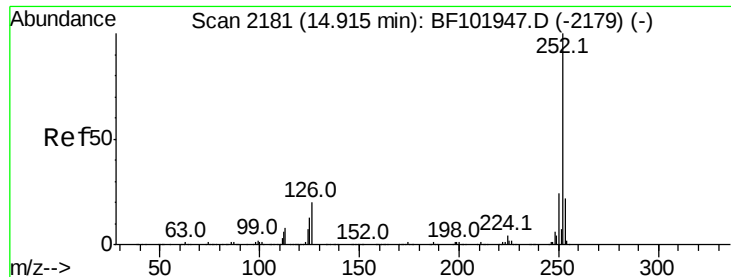
Sohil
1/11/2018 10:52:57 AM



#87
Benzo(b)fluoranthene
Concen: 11.089 ng m
RT: 14.89 min Scan# 2176
Delta R.T. -0.00 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	14.4	9.0	13.6





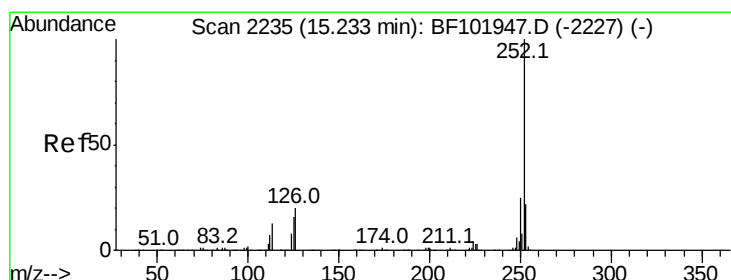
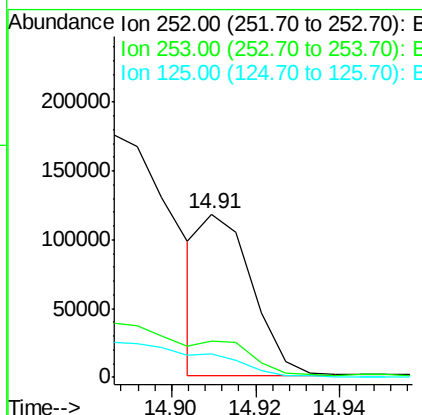
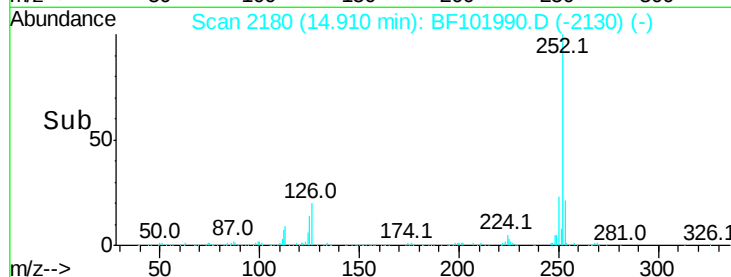
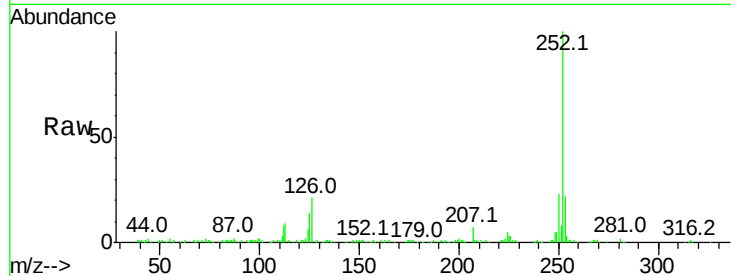
#88
Benzo(k)fluoranthene
Concen: 4.330 ng m
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Instrument :
BNA_F
ClientSampleId :
WC-14R30-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	14.5	10.2	15.2

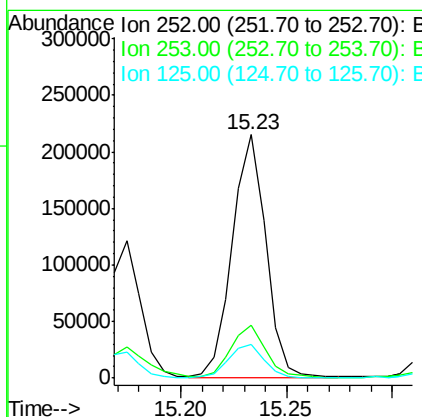
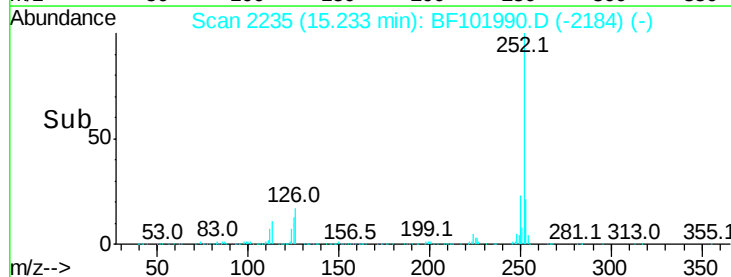
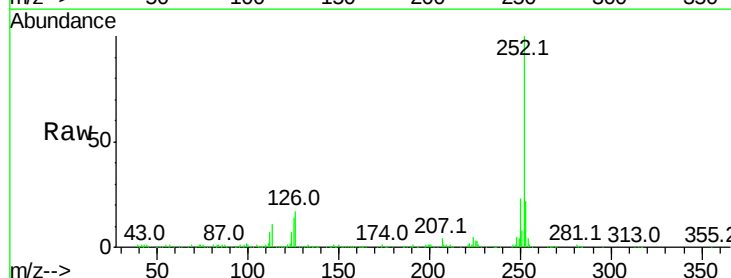
Manual Integrations
APPROVED

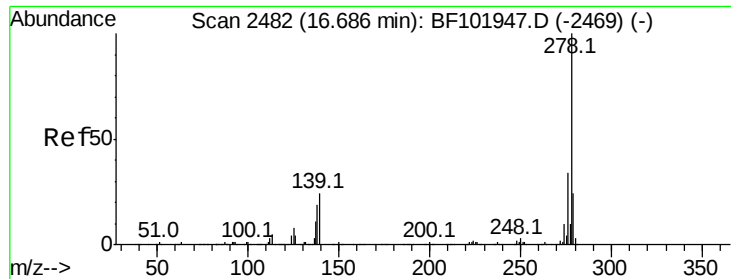
Sohil
1/11/2018 10:52:57 AM



#89
Benzo(a)pyrene
Concen: 10.993 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.00 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	13.6	9.8	14.6





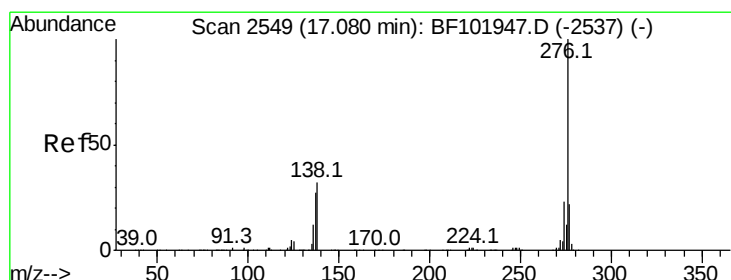
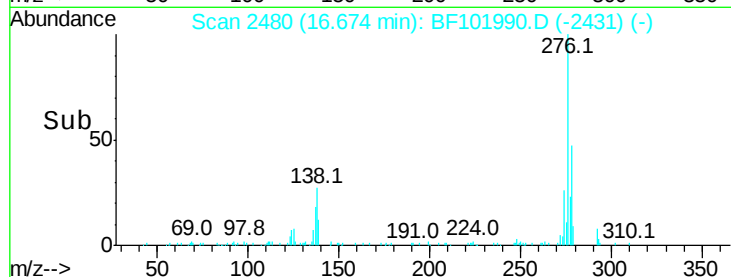
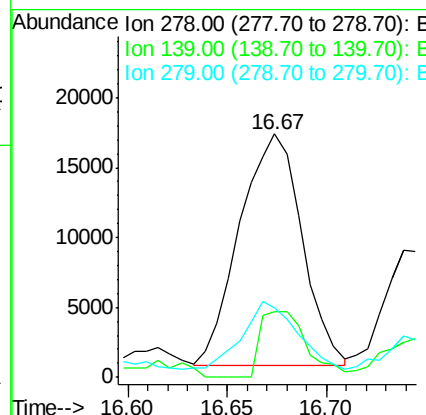
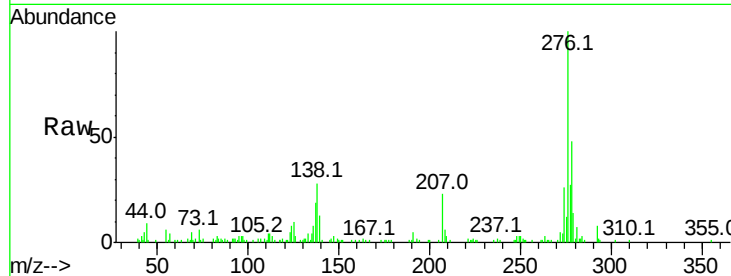
#90
Dibenzo(a,h)anthracene
Concen: 2.100 ng m
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Instrument :
BNA_F
ClientSampleId :
WC-14R30-02

Tot Ion	Ratio	Lower	Upper
278	100		
139	27.2	15.9	23.9#
279	28.8	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/11/2018 10:52:57 AM



#91
Benzo(g,h,i)perylene
Concen: 7.282 ng
RT: 17.07 min Scan# 2548
Delta R.T. -0.01 min
Lab File: BF101990.D
Acq: 10 Jan 2018 20:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	33.4	21.8	32.8#

