

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101993.D
 Acq On : 10 Jan 2018 21:43
 Operator : SJ/JU
 Sample : J1076-10 50X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-02

Manual Integrations
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 1/11/2018 10:53:03 AM

Quant Time: Jan 11 04:09:06 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	217759	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	834384	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	370302	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	546784	20.00	ng	0.00
75) Chrysene-d12	13.88	240	293131	20.00	ng	0.00
86) Perylene-d12	15.30	264	373369	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	7450	0.48	ng	0.00
7) Phenol-d6	6.35	99	9358	0.51	ng	0.00
23) Nitrobenzene-d5	7.29	82	4852	0.34	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	1161	0.36	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	9781	0.41	ng	-0.01
78) Terphenyl-d14	12.83	244	8552	0.61	ng	0.00

Target Compounds

						Qvalue
10) Phenol	6.36	94	461865	22.213	ng	98
17) 2-Methylphenol	6.97	107	101581	7.281	ng	98
20) 3+4-Methylphenols	7.13	107	317710	18.965	ng	87
27) 2,4-Dimethylphenol	7.66	122	72098	6.045	ng	99
31) Naphthalene	8.05	128	7528717	180.576	ng	98
37) 2-Methylnaphthalene	8.73	142	1595748	58.138	ng	99
45) 1,1'-Biphenyl	9.19	154	487537	14.895	ng	97
48) Acenaphthylene	9.63	152	1856829	46.098	ng	99
51) Acenaphthene	9.79	154	243201	9.948	ng	99
54) Dibenzofuran	9.97	168	1351327	40.274	ng	97
57) Fluorene	10.32	166	1526846	65.826	ng	99
70) Phenanthrene	11.29	178	3898069	122.046	ng	98
71) Anthracene	11.33	178	1723273	53.200	ng	100
72) Carbazole	11.47	167	675280	21.209	ng	98
74) Fluoranthene	12.46	202	2409726	76.684	ng	100
77) Pyrene	12.69	202	1992529	76.899	ng	100
80) Benzo(a)anthracene	13.87	228	944411	50.496	ng	# 83
82) Chrysene	13.90	228	774213	39.700	ng	97
85) Indeno(1,2,3-cd)pyrene	16.67	276	476939	33.601	ng	98
87) Benzo(b)fluoranthene	14.90	252	915437m	37.603	ng	
88) Benzo(k)fluoranthene	14.92	252	399556m	17.013	ng	
89) Benzo(a)pyrene	15.24	252	818073	37.343	ng	96
90) Dibenzo(a,h)anthracene	16.69	278	130336m	7.455	ng	
91) Benzo(g,h,i)perylene	17.09	276	436861	24.807	ng	95

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

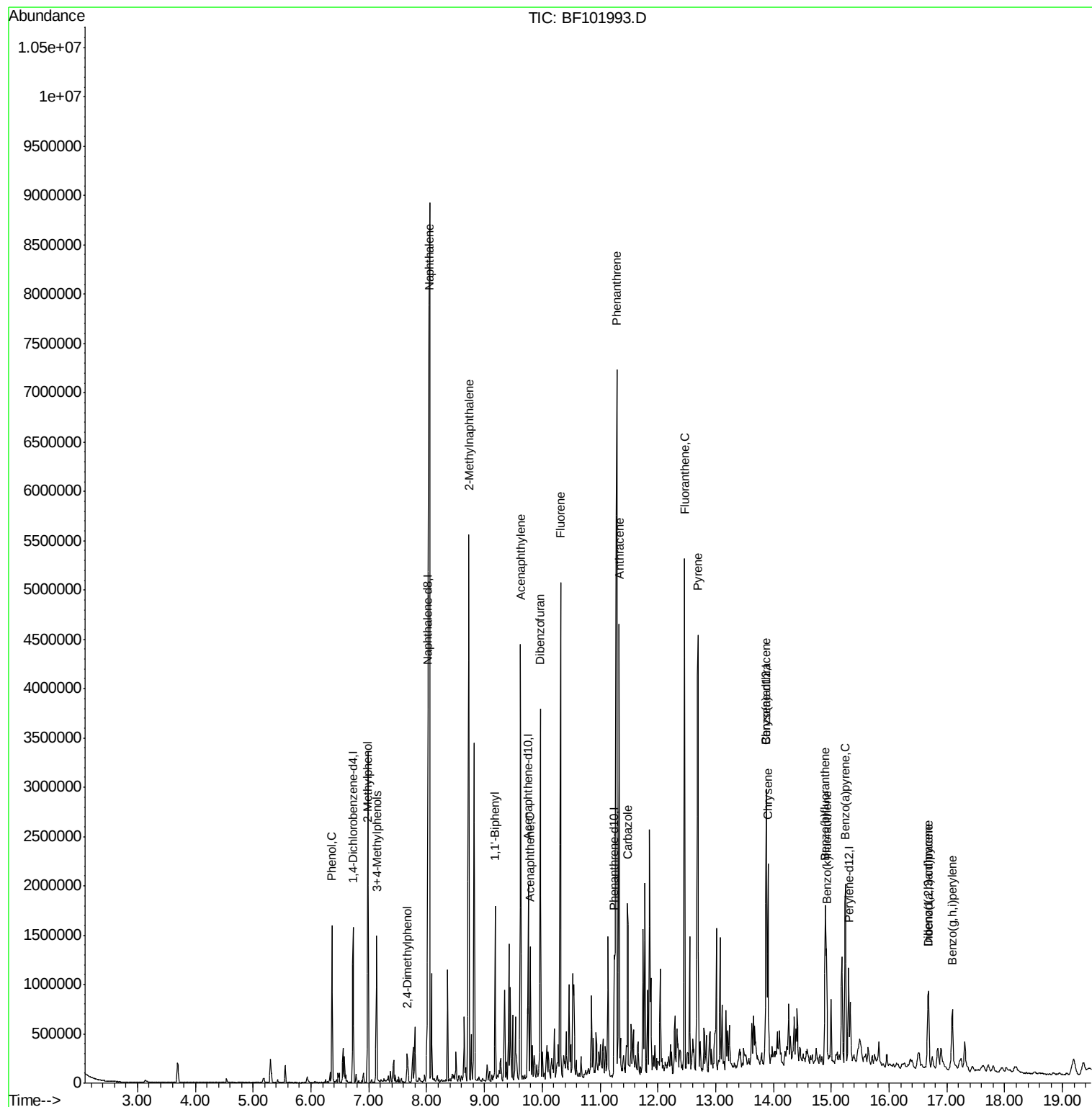
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101993.D
Acq On : 10 Jan 2018 21:43
Operator : SJ/JU
Sample : J1076-10 50X
Misc :
ALS Vial : 14 Sample Multiplier: 1

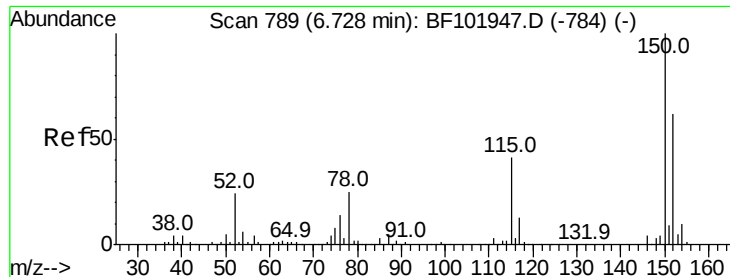
Instrument :
BNA_F
ClientSampleId :
WC-43-02

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#1

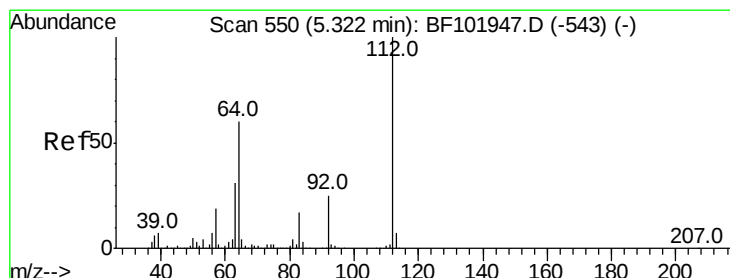
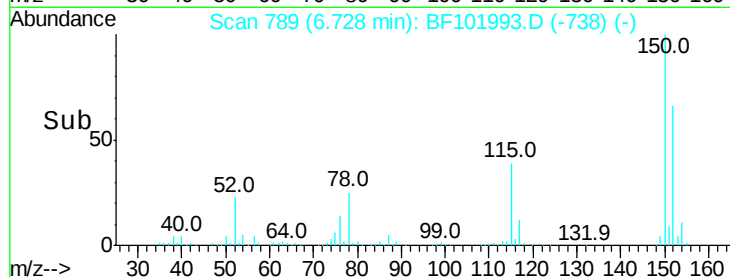
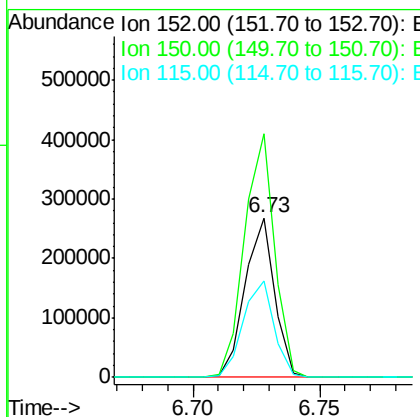
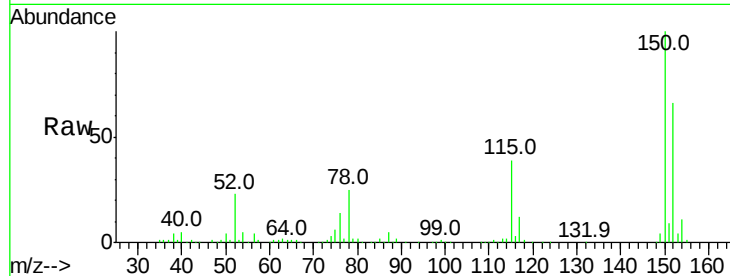
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. 0.00 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleId :
WC-43-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.6	186.8
115	60.2	50.1	75.1

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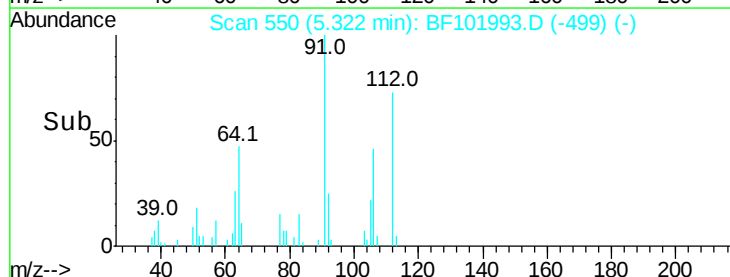
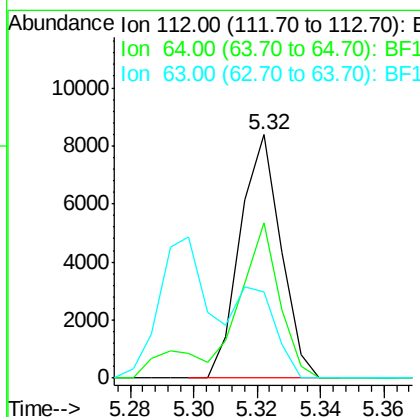
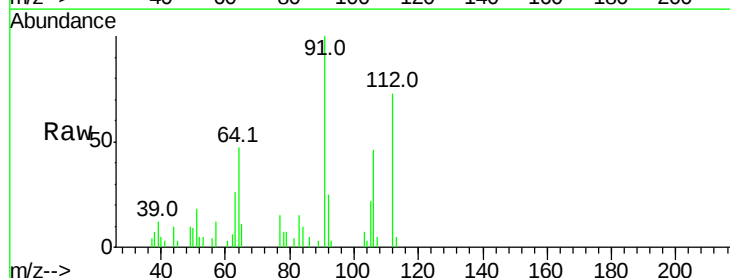
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#5

2-Fluorophenol
Concen: 0.483 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.8	47.9	71.9
63	35.5	23.7	35.5





#7

Phenol-d6

Concen: 0.509 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Instrument :

BNA_F

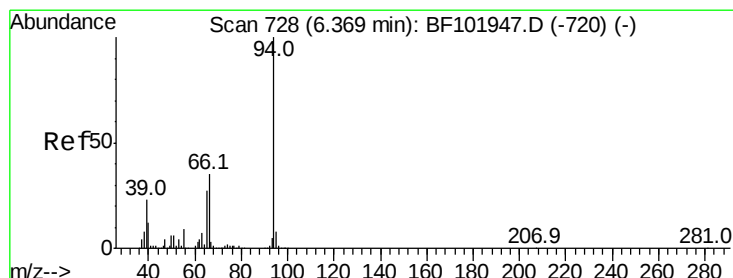
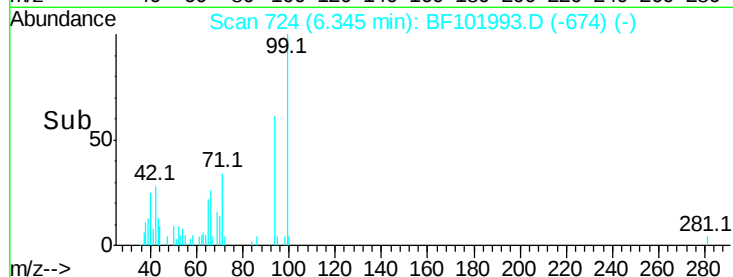
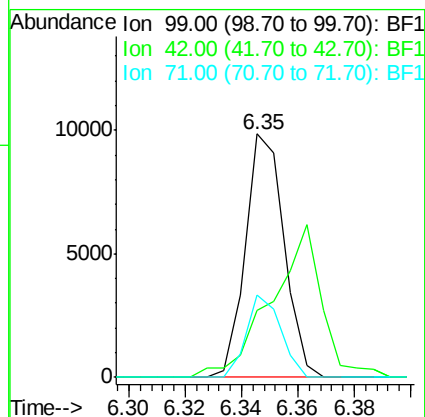
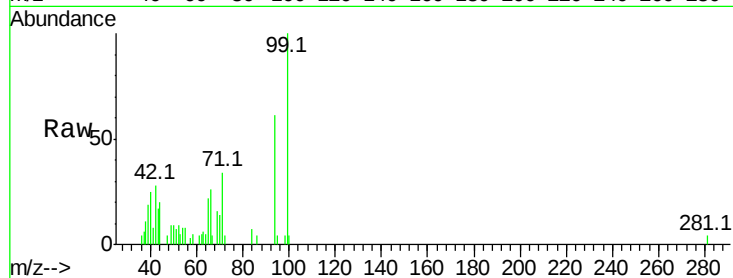
ClientSampleId :

WC-43-02

Tot Ion	99	Resp	9358
Ion Ratio	Lower	Upper	
99	100		
42	27.6	14.5	21.7#
71	33.7	25.4	38.0

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#10

Phenol

Concen: 22.213 ng

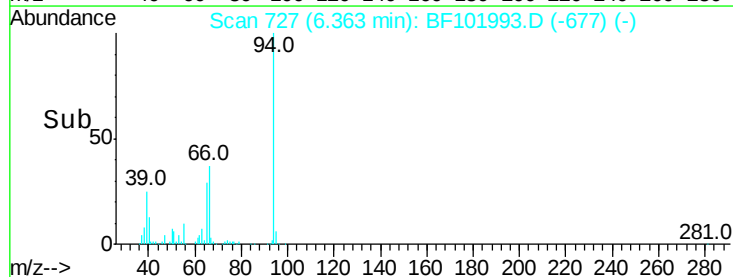
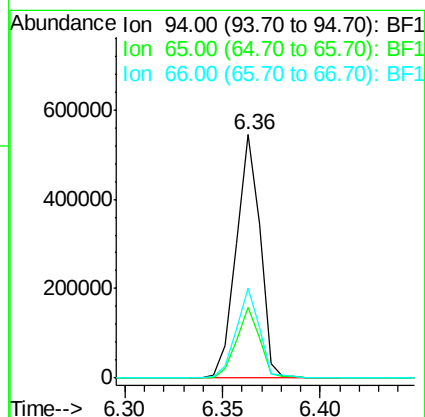
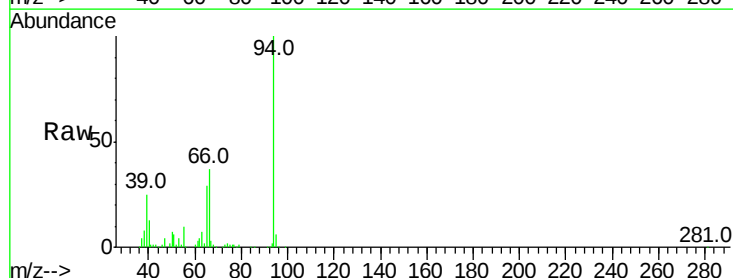
RT: 6.36 min Scan# 727

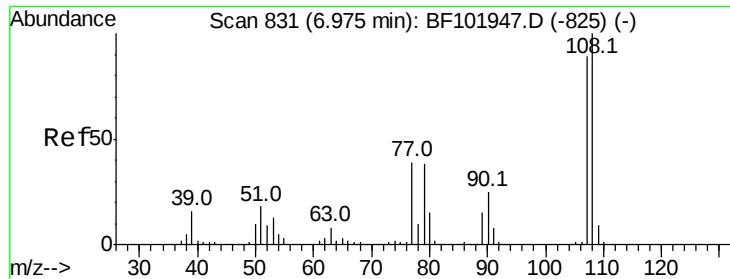
Delta R.T. -0.01 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Tgt Ion	94	Resp	461865
Ion Ratio	Lower	Upper	
94	100		
65	29.3	7.9	47.9
66	36.8	16.2	56.2





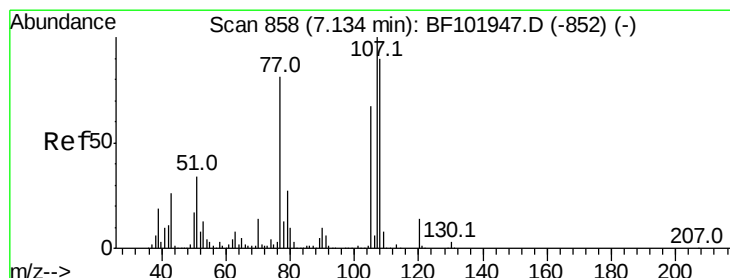
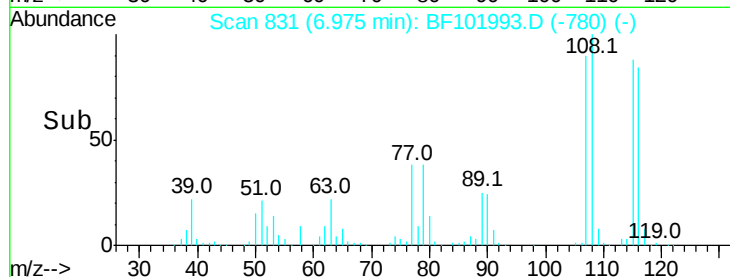
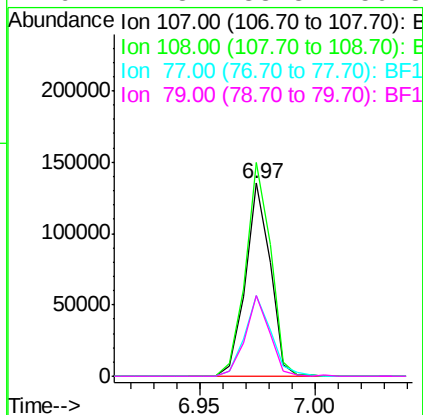
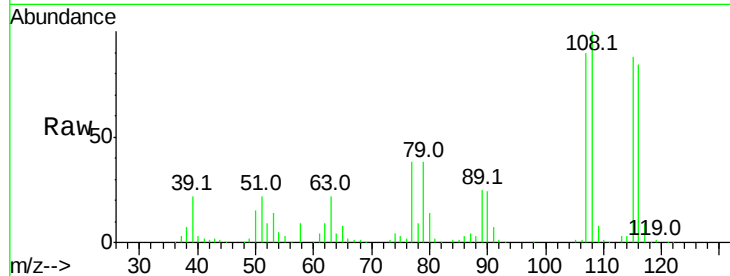
#17
2-Methylphenol
Concen: 7.281 ng
RT: 6.97 min Scan# 831
Delta R.T. 0.00 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleId :
WC-43-02

Tot Ion	107	Resp	101581
Ion Ratio	Lower	Upper	
107	100		
108	110.5	91.7	137.5
77	42.0	33.8	50.8
79	41.8	33.8	50.8

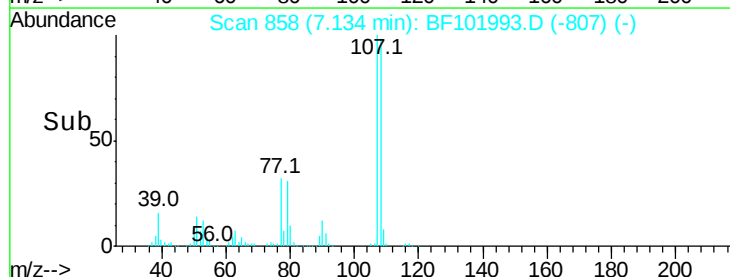
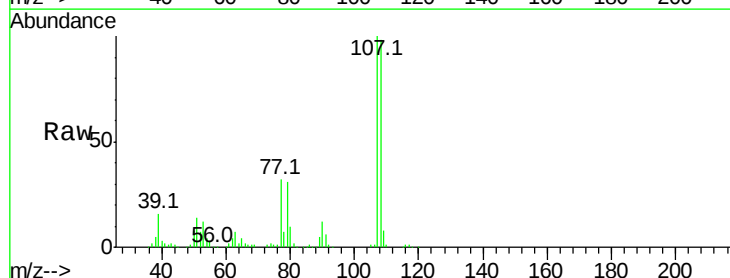
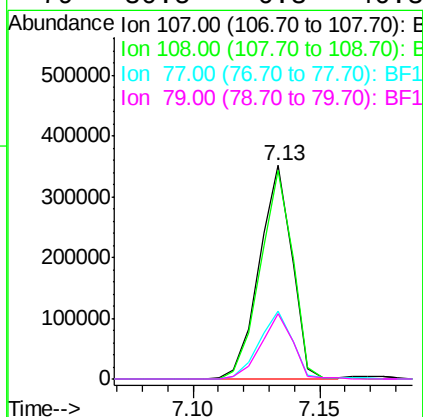
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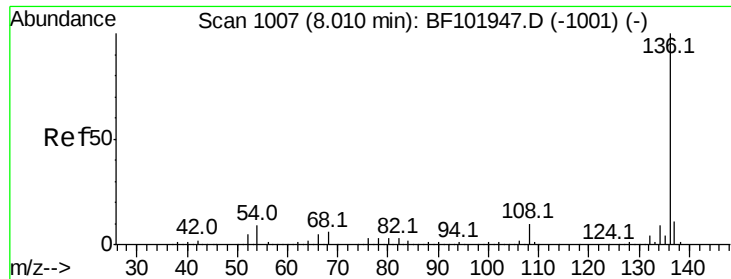
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#20
3+4-Methylphenols
Concen: 18.965 ng
RT: 7.13 min Scan# 858
Delta R.T. 0.00 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion	107	Resp	317710
Ion Ratio	Lower	Upper	
107	100		
108	97.9	68.2	108.2
77	32.1	26.7	66.7
79	30.5	6.3	46.3





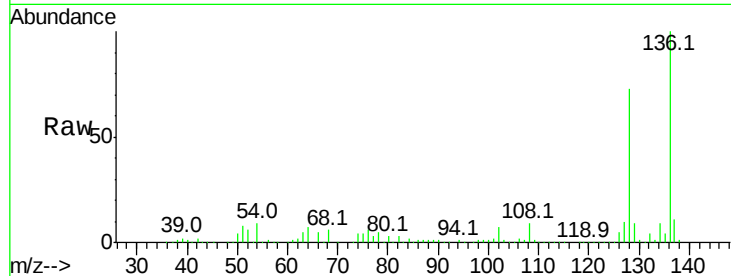
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.02 min Scan# 1008
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleID :
WC-43-02

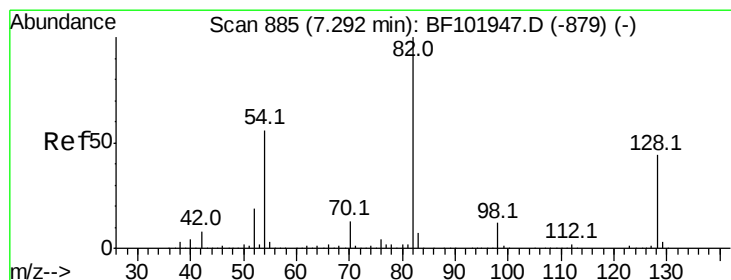
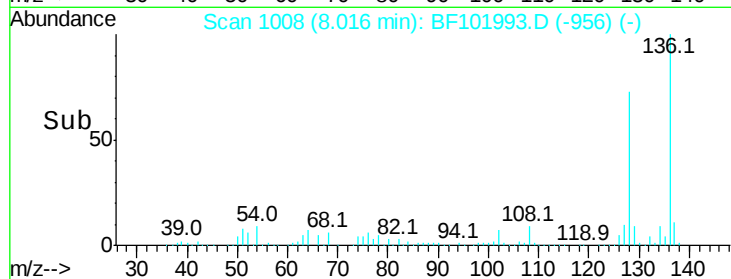
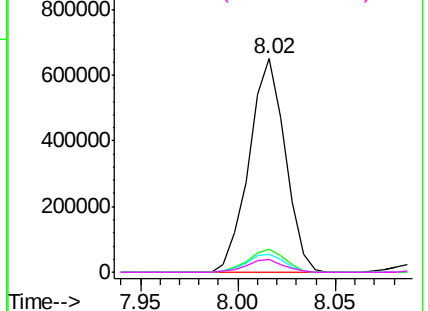
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.6	8.9	13.3	
54	8.6	6.6	9.8	
68	5.8	5.0	7.4	

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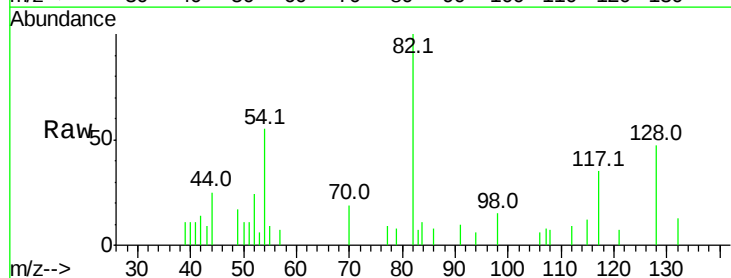


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

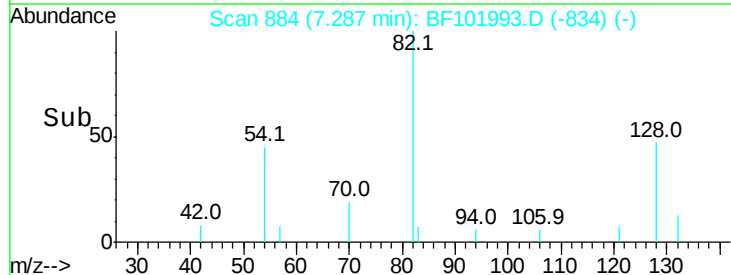
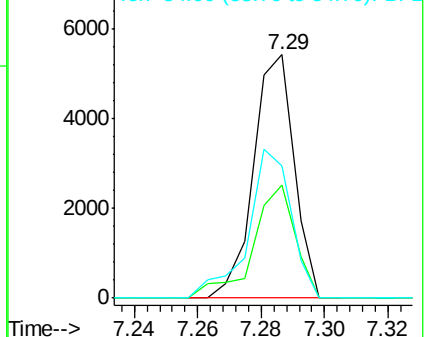


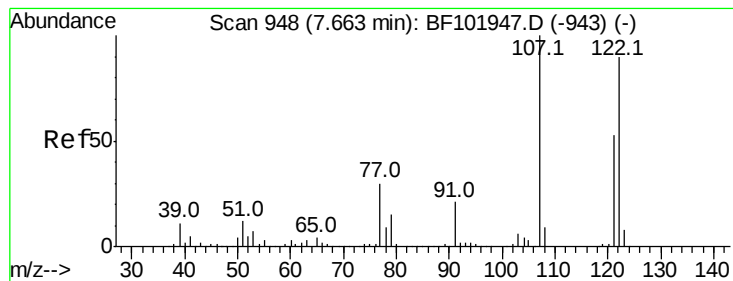
#23
Nitrobenzene-d5
Concen: 0.342 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.6	36.1	54.1	
54	54.5	41.4	62.2	



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





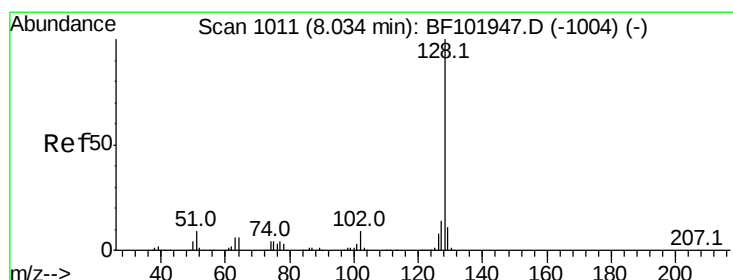
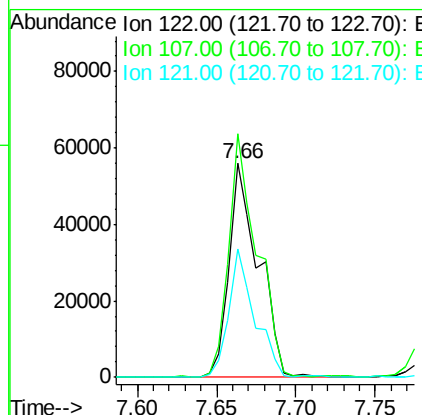
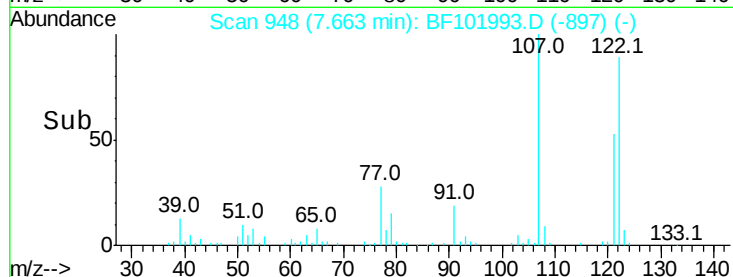
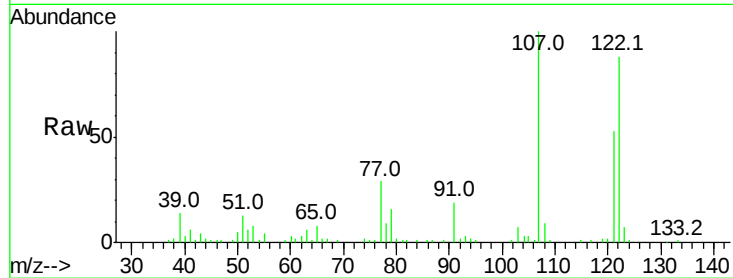
#27
 2,4-Dimethylphenol
 Concen: 6.045 ng
 RT: 7.66 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-02

Tot Ion:	122	Resp:	72098
Ion	Ratio	Lower	Upper
122	100		
107	113.7	91.2	136.8
121	59.9	47.2	70.8

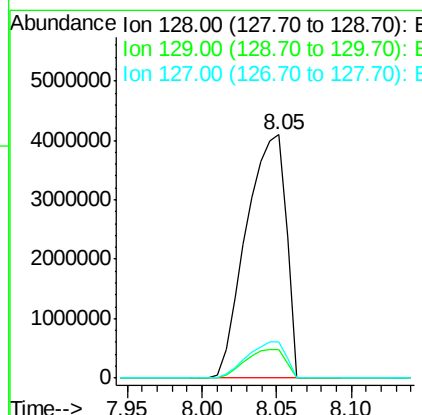
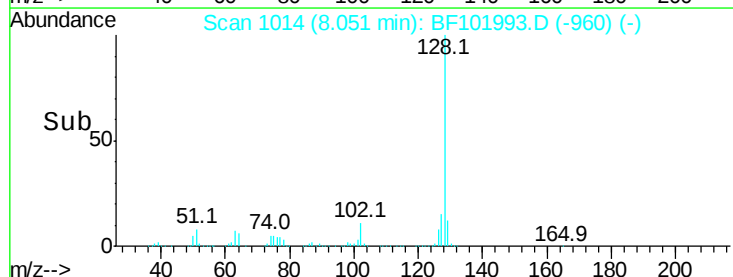
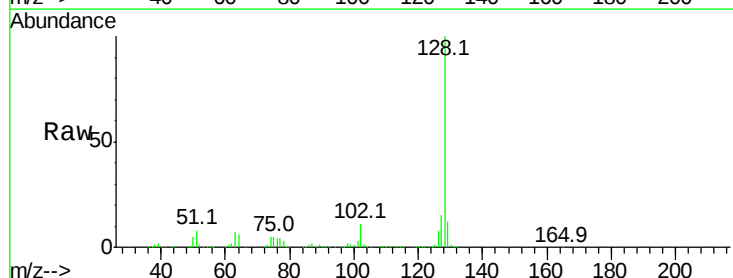
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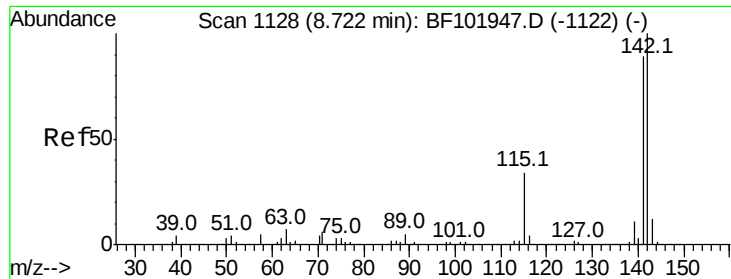
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#31
 Naphthalene
 Concen: 180.576 ng
 RT: 8.05 min Scan# 1014
 Delta R.T. 0.02 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Tgt Ion:	128	Resp:	7528717
Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.8	13.2
127	14.7	10.9	16.3





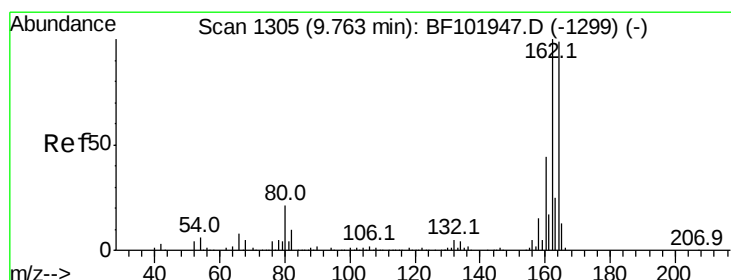
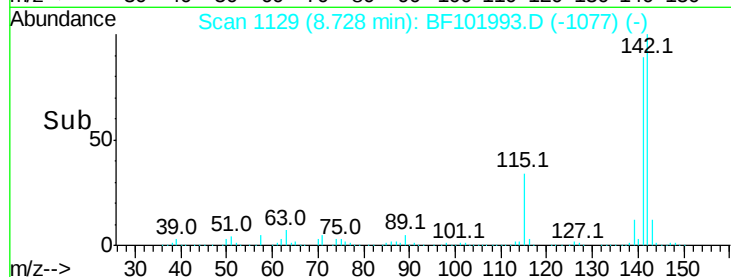
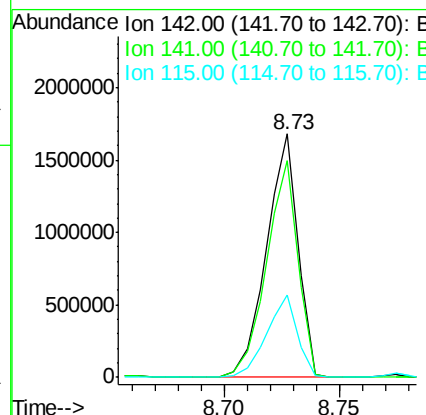
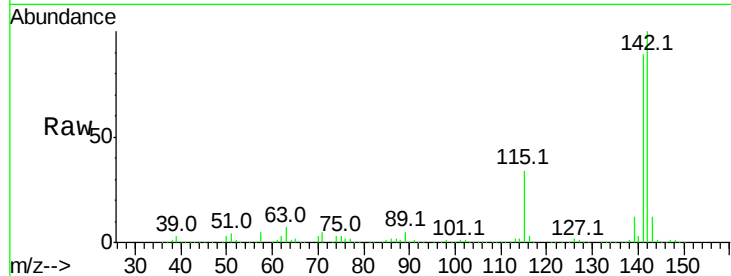
#37
2-Methylnaphthalene
Concen: 58.138 ng
RT: 8.73 min Scan# 1129
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleId :
WC-43-02

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.8	106.2
115	33.7	26.1	39.1

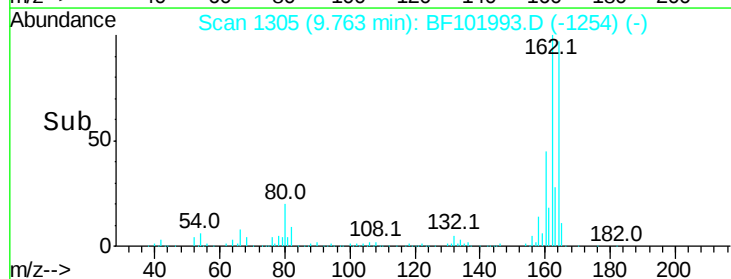
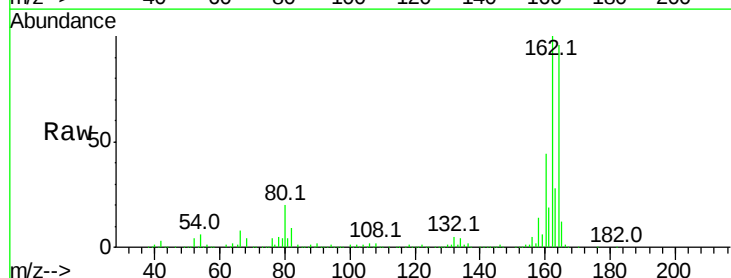
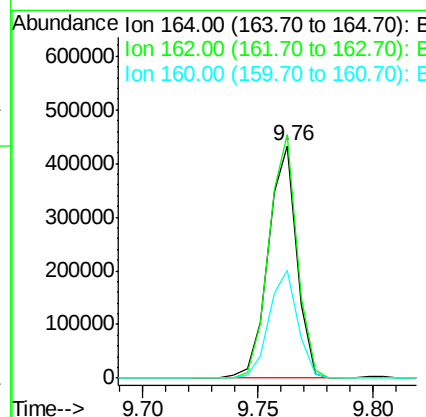
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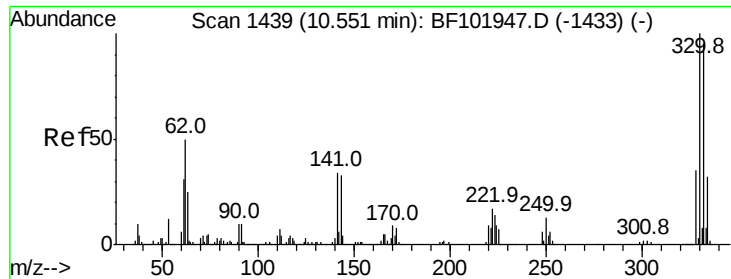
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	86.1	129.1
160	46.6	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 0.359 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Instrument :

BNA_F

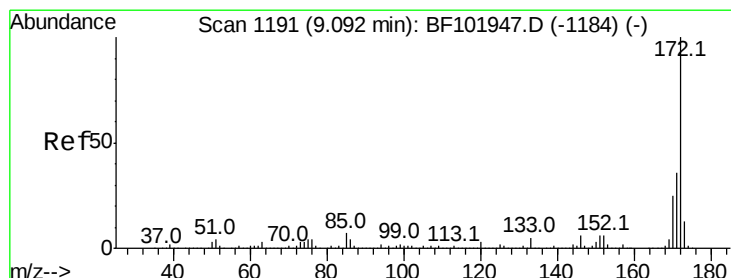
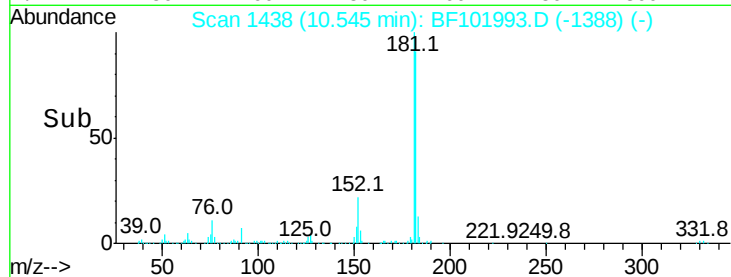
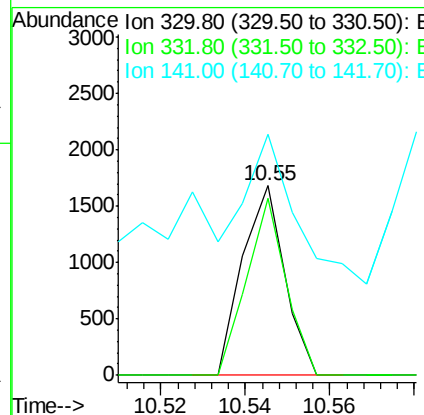
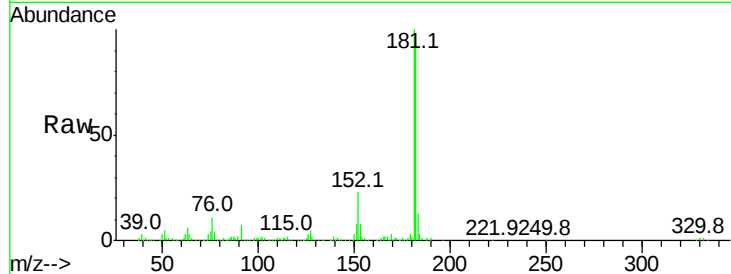
ClientSampleId :

WC-43-02

Tot Ion:	330	Resp:	1161
Ion Ratio	Lower	Upper	
330	100		
332	87.4	77.0	115.6
141	100.3	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 0.413 ng

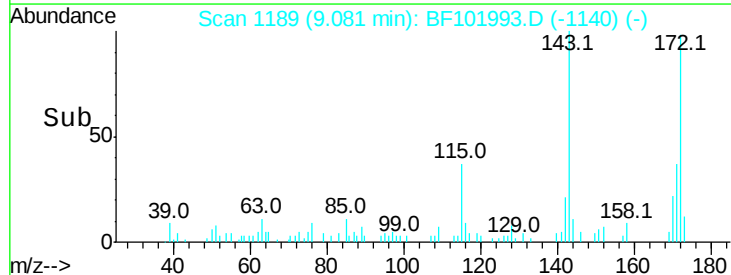
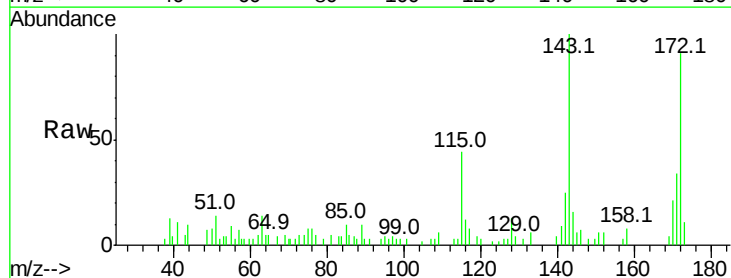
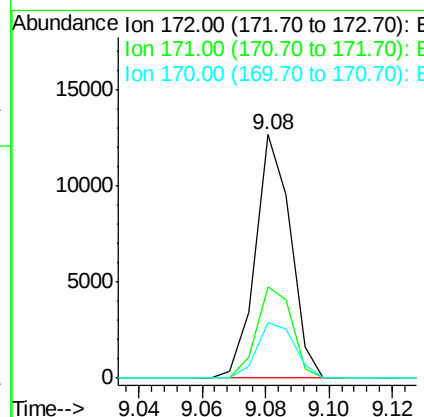
RT: 9.08 min Scan# 1189

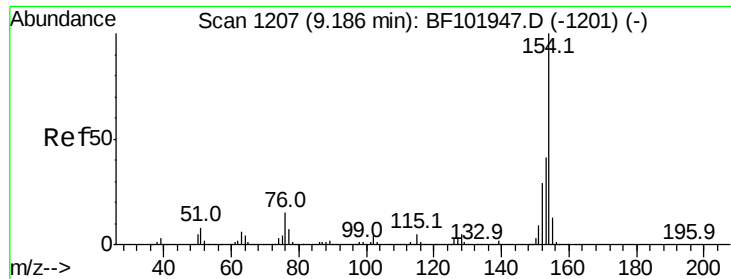
Delta R.T. -0.01 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Tgt Ion:	172	Resp:	9781
Ion Ratio	Lower	Upper	
172	100		
171	37.4	29.7	44.5
170	22.5	19.6	29.4





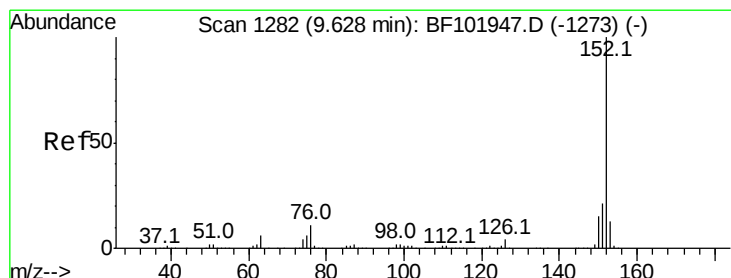
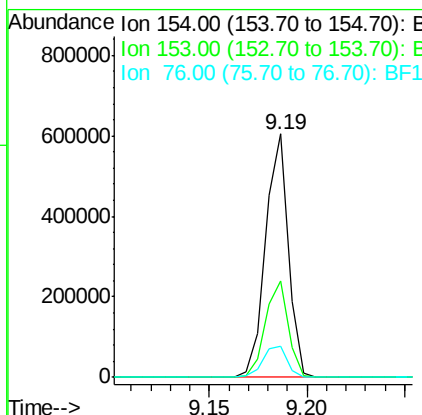
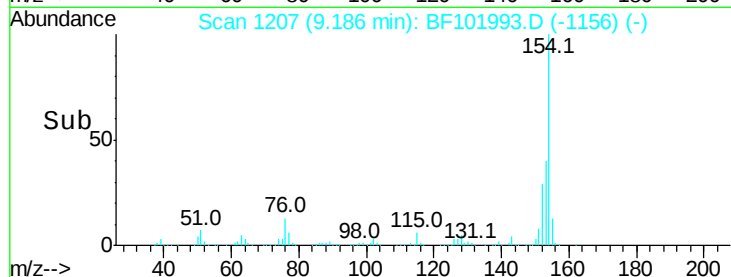
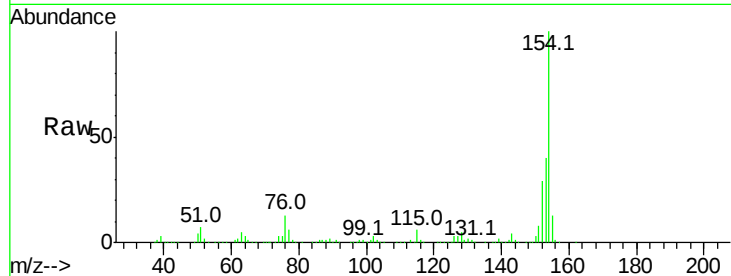
#45
 1,1'-Biphenyl
 Concen: 14.895 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. 0.00 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-02

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	39.7	21.3	61.3	
76	12.5	0.0	34.0	

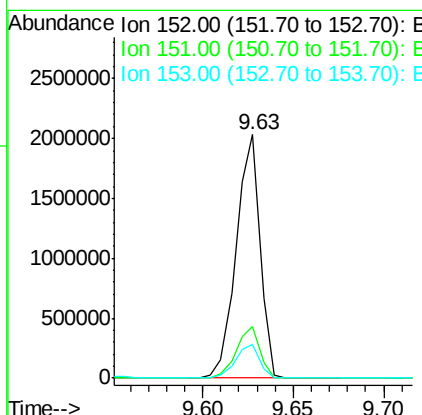
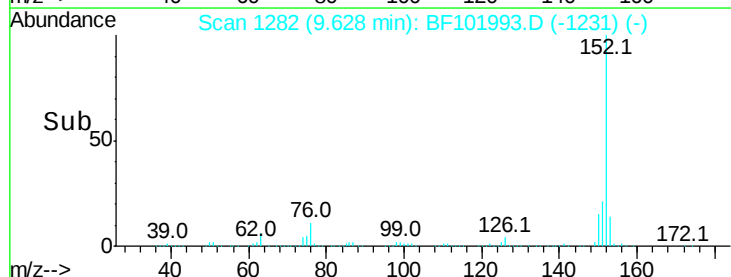
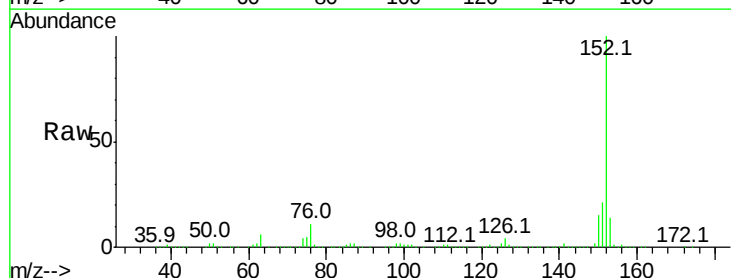
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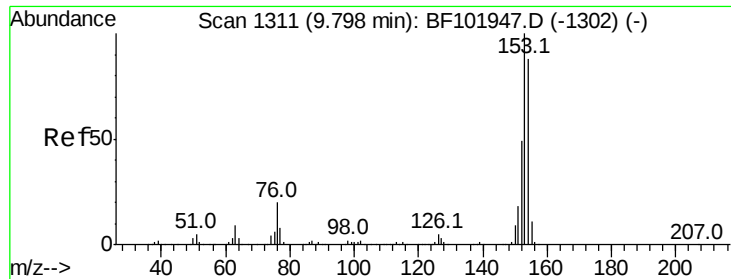
Sohil
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#48
 Acenaphthylene
 Concen: 46.098 ng
 RT: 9.63 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	21.1	16.3	24.5	
153	13.8	10.7	16.1	





#51

Acenaphthene

Concen: 9.948 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Instrument :

BNA_F

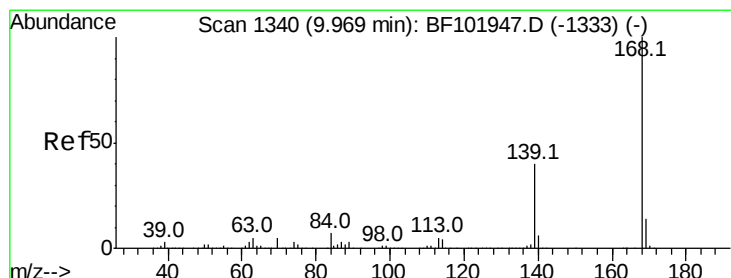
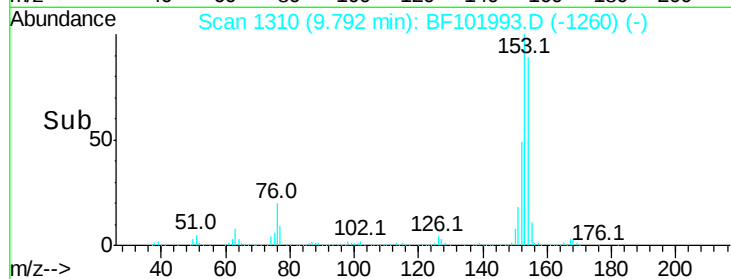
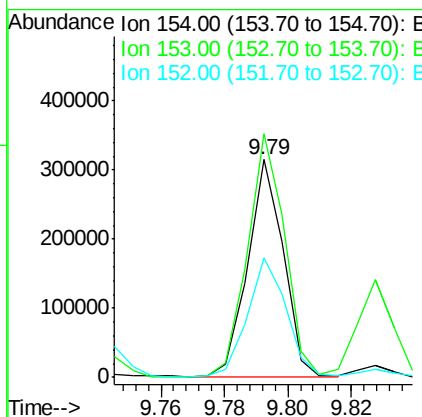
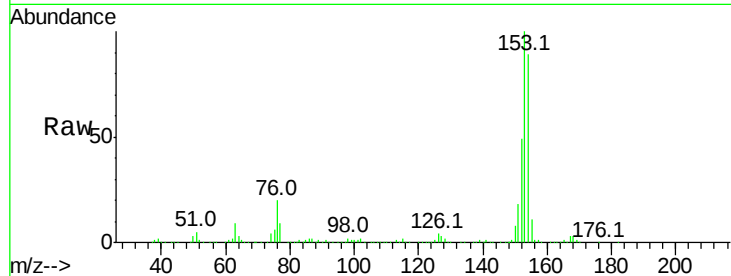
ClientSampleId :

WC-43-02

Tot Ion:	154	Resp:	243201
Ion Ratio	Lower	Upper	
154	100		
153	111.8	91.2	136.8
152	54.6	43.8	65.8

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#54

Dibenzofuran

Concen: 40.274 ng

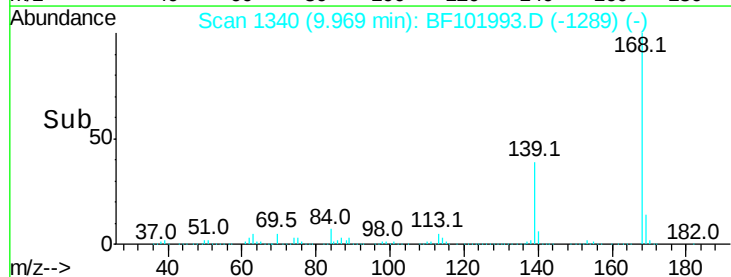
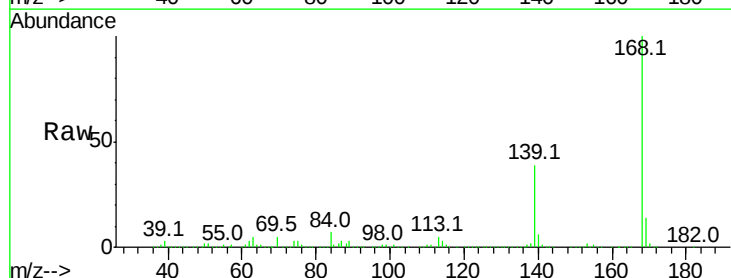
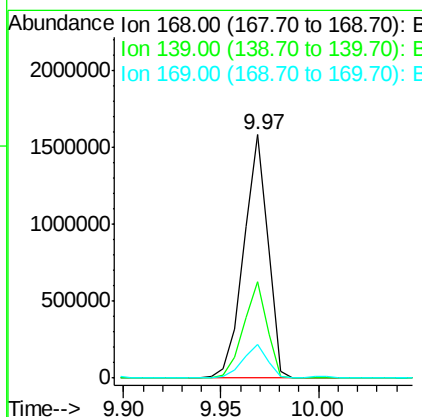
RT: 9.97 min Scan# 1340

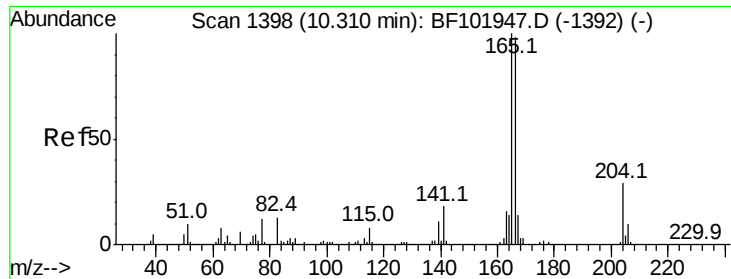
Delta R.T. 0.00 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Tgt Ion:	168	Resp:	1351327
Ion Ratio	Lower	Upper	
168	100		
139	39.5	30.1	45.1
169	14.1	10.9	16.3





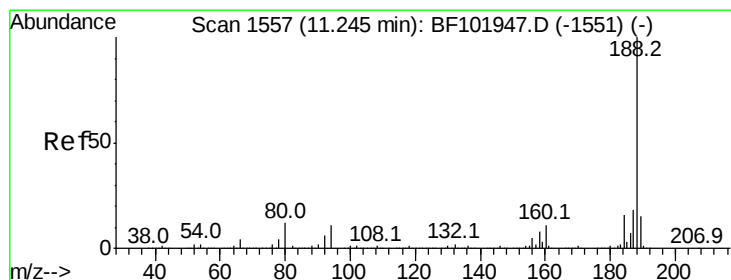
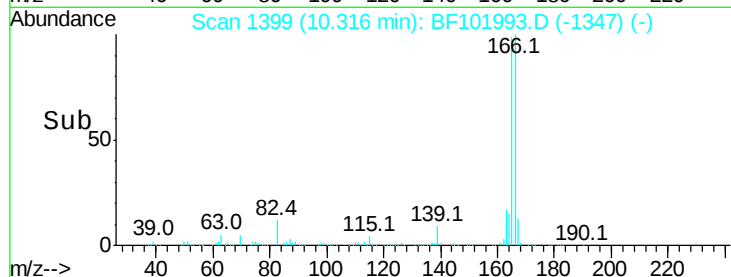
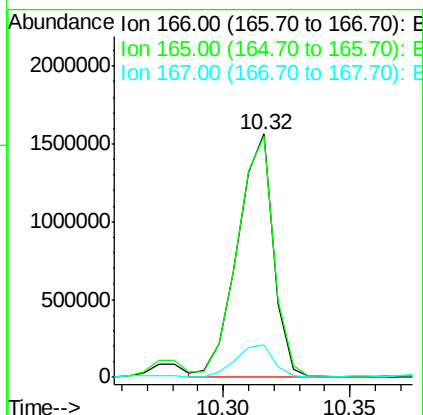
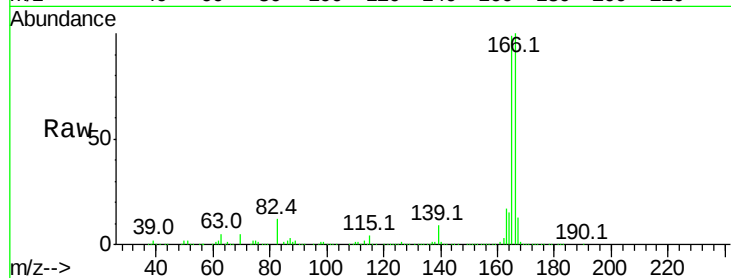
#57
Fluorene
 Concen: 65.826 ng
 RT: 10.32 min Scan# 1399
 Delta R.T. 0.01 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-02

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.8	119.8
167	13.4	10.6	16.0

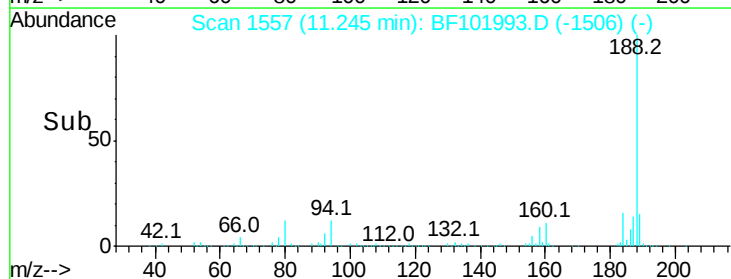
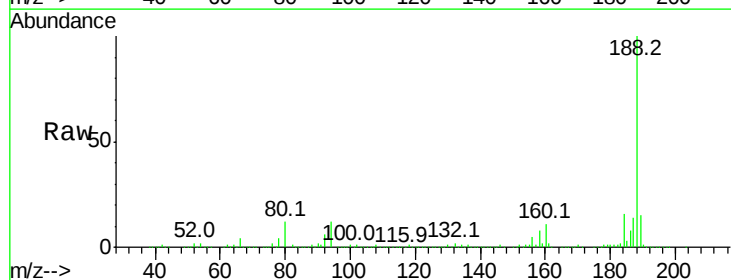
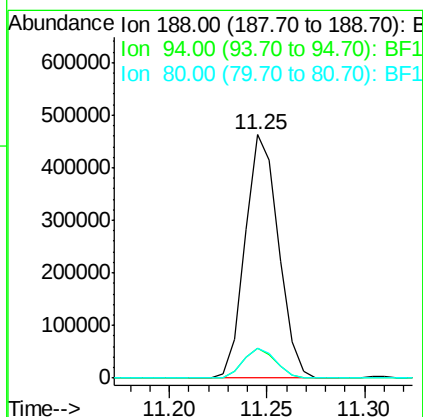
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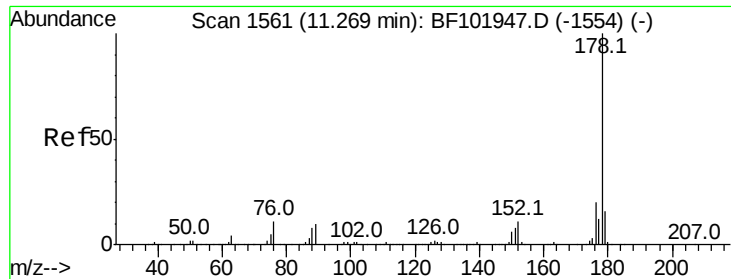
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.1	8.5	12.7
80	12.3	9.2	13.8





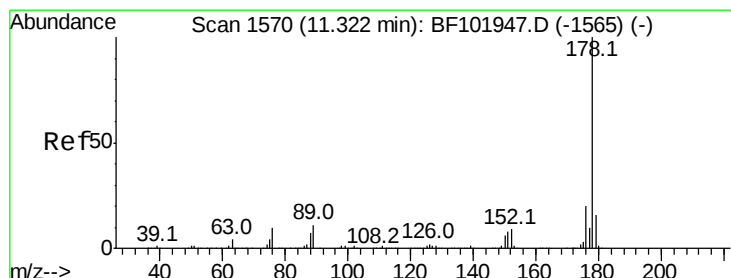
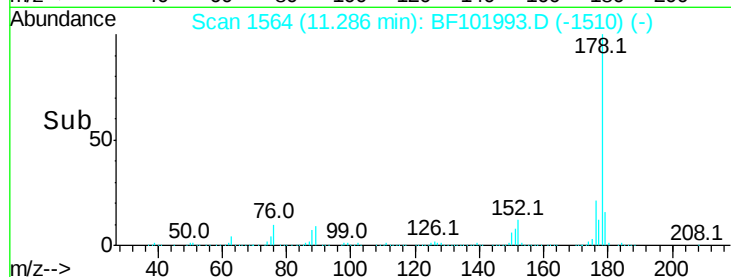
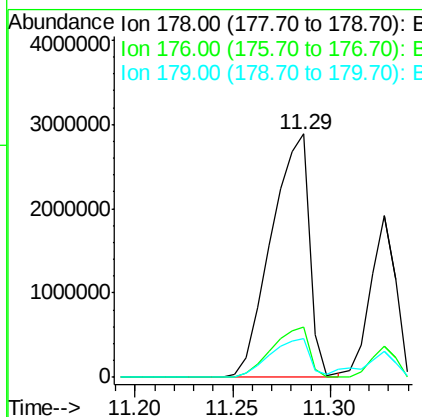
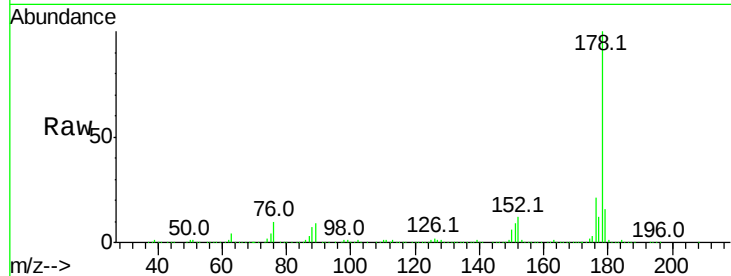
#70
Phenanthrene
Concen: 122.046 ng
RT: 11.29 min Scan# 1564
Delta R.T. 0.02 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleId :
WC-43-02

Tot Ion:178 Resp: 3898069
Ion Ratio Lower Upper
178 100
176 20.9 15.8 23.8
179 15.9 13.0 19.6

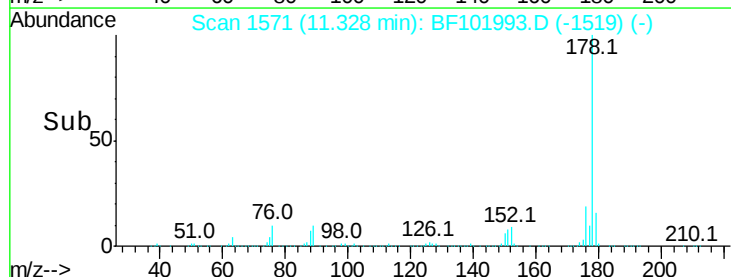
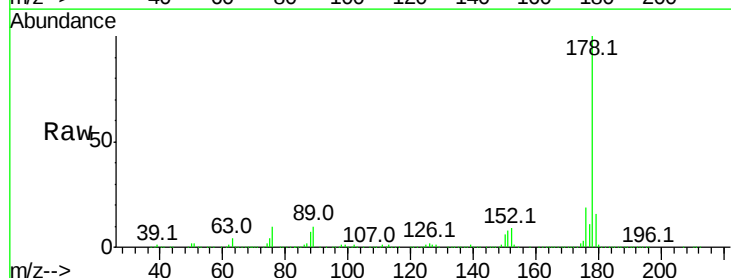
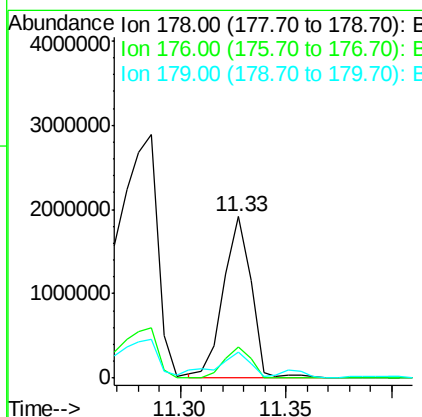
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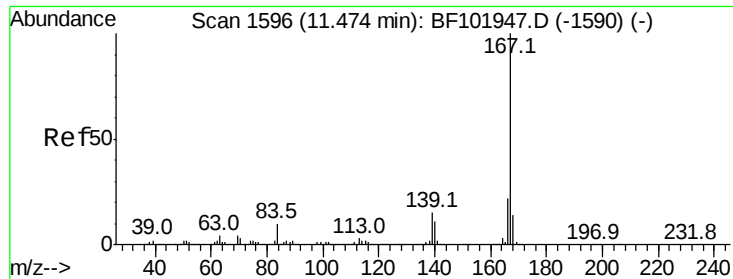
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#71
Anthracene
Concen: 53.200 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion:178 Resp: 1723273
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.7 12.6 19.0





#72

Carbazole

Concen: 21.209 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Instrument :

BNA_F

ClientSampled :

WC-43-02

Tot Ion:167 Resp: 675280

Ion Ratio Lower Upper

167 100

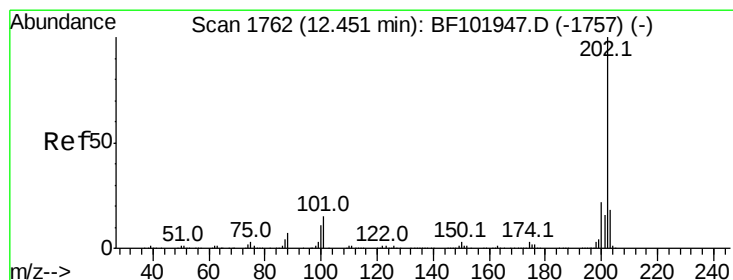
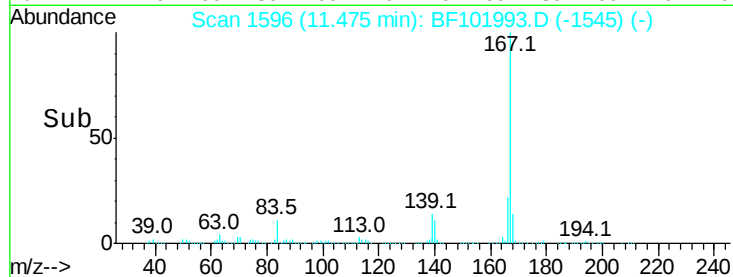
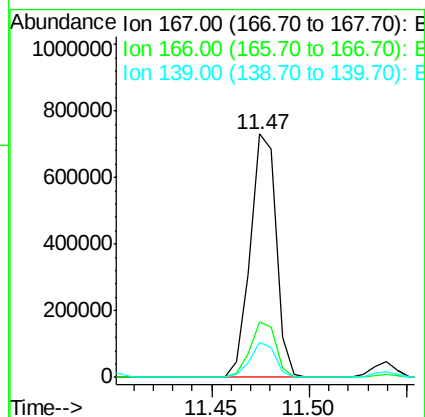
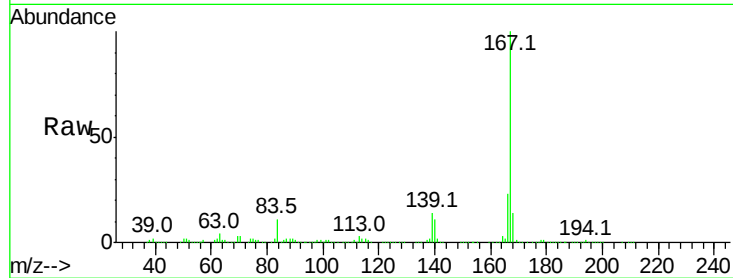
166 22.7 17.6 26.4

139 14.3 10.9 16.3

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#74

Fluoranthene

Concen: 76.684 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

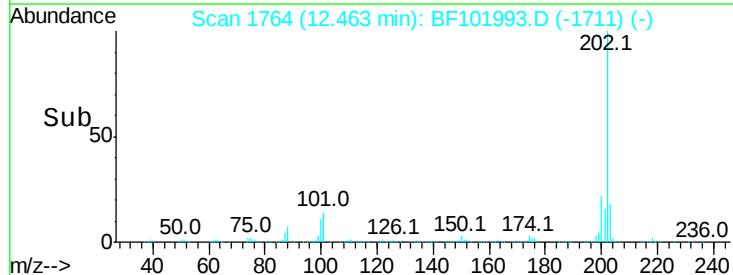
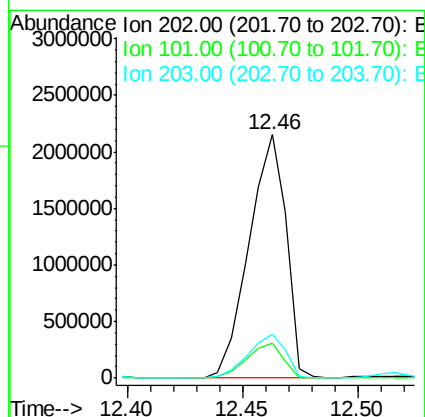
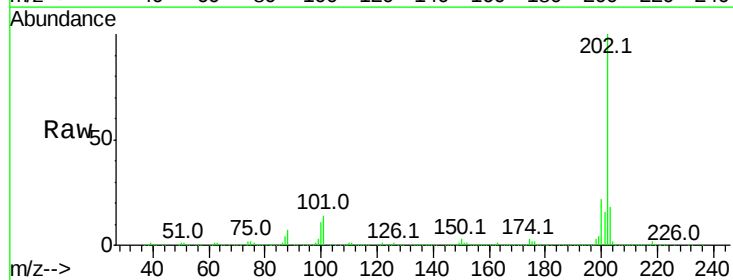
Tgt Ion:202 Resp: 2409726

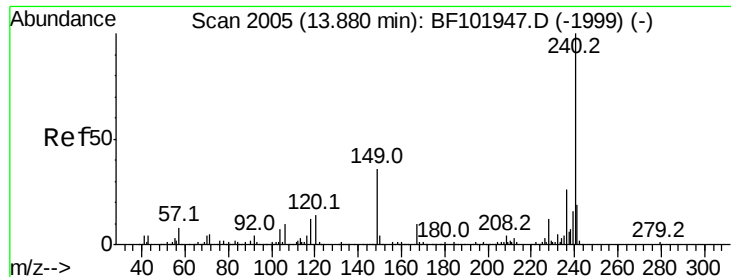
Ion Ratio Lower Upper

202 100

101 14.3 0.0 34.1

203 17.9 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.00 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Instrument :

BNA_F

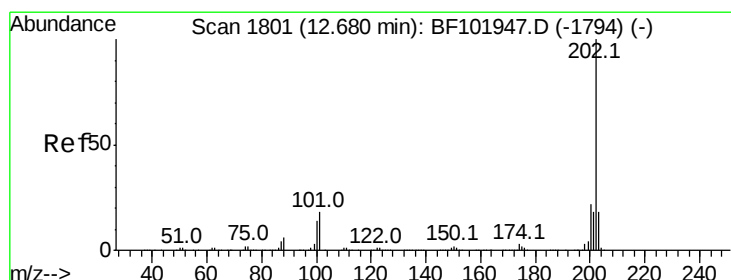
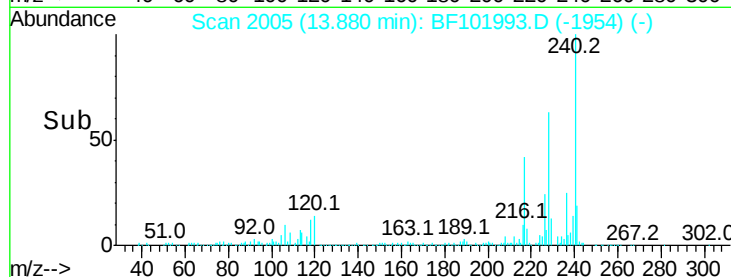
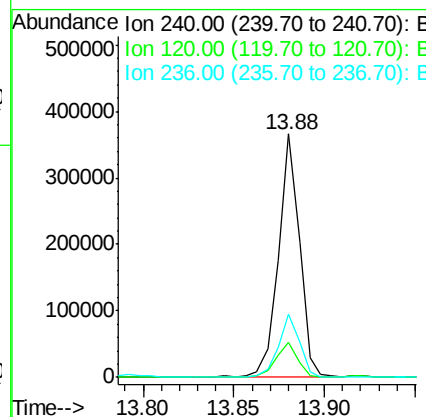
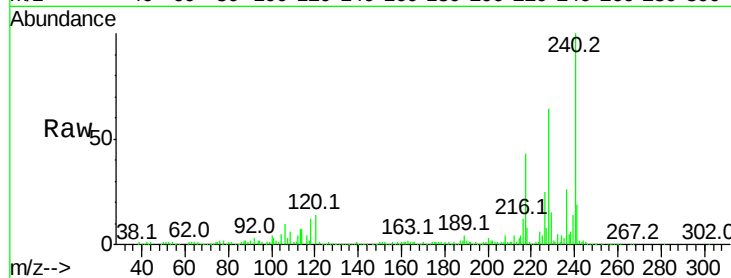
ClientSampled :

WC-43-02

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

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#77

Pyrene

Concen: 76.899 ng

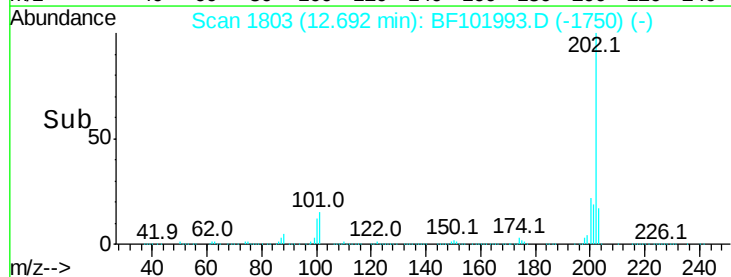
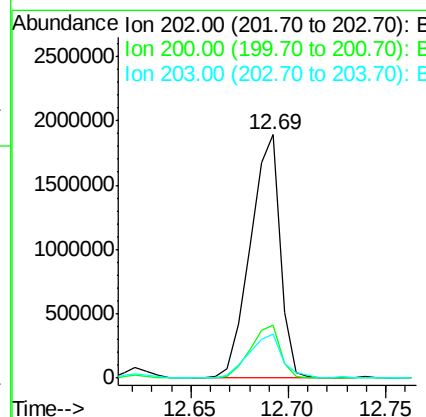
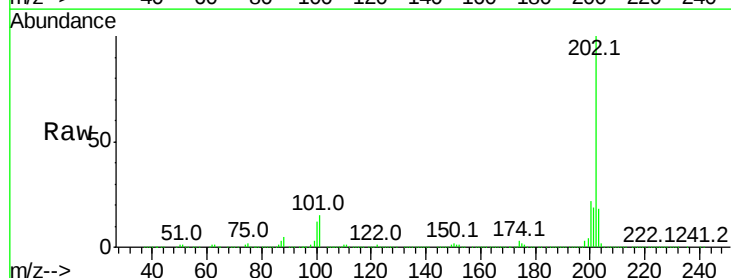
RT: 12.69 min Scan# 1803

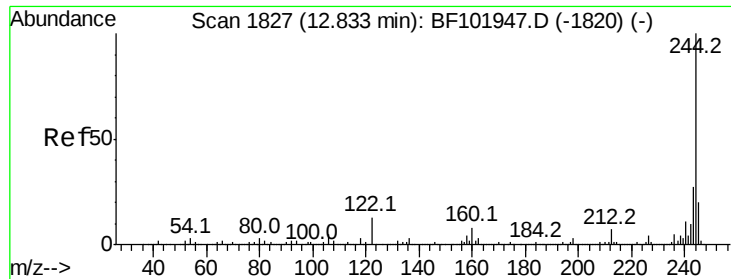
Delta R.T. 0.01 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.4	26.2
203	17.9	14.3	21.5





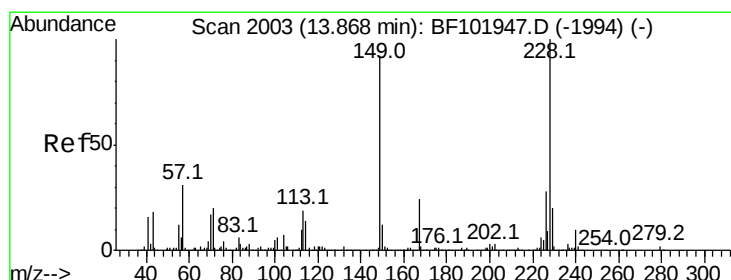
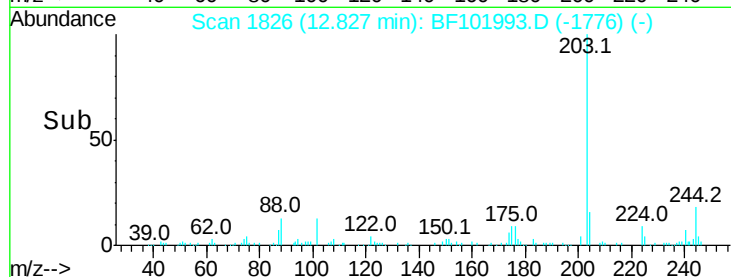
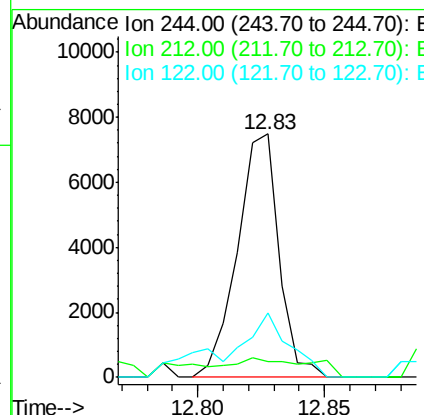
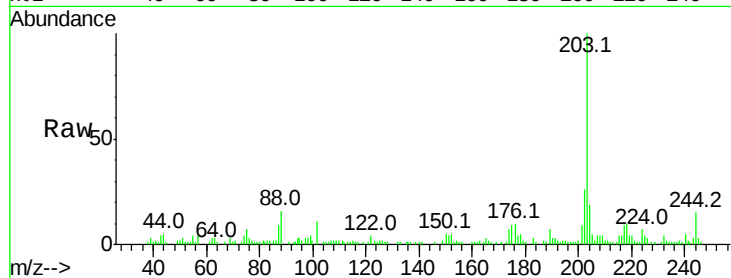
#78
 Terphenyl-d14
 Concen: 0.606 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-02

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	26.6	11.0	16.4

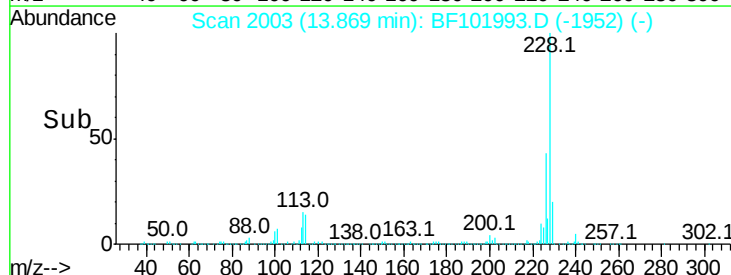
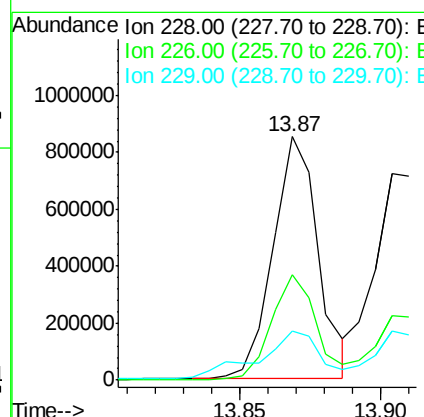
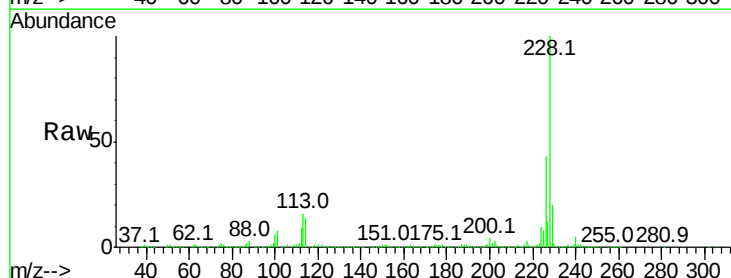
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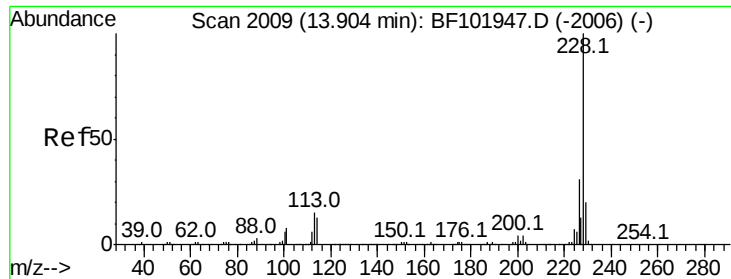
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#80
 Benzo(a)anthracene
 Concen: 50.496 ng
 RT: 13.87 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: BF101993.D
 Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	43.4	22.6	33.8
229	20.2	15.8	23.6





#82

Chrysene

Concen: 39.700 ng

RT: 13.90 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Instrument :

BNA_F

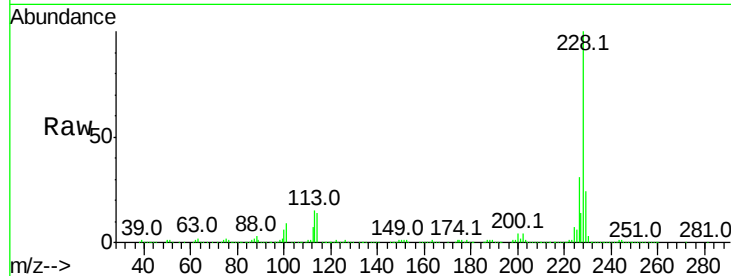
ClientSampleId :

WC-43-02

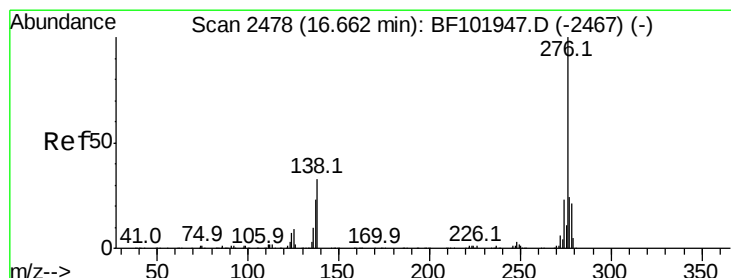
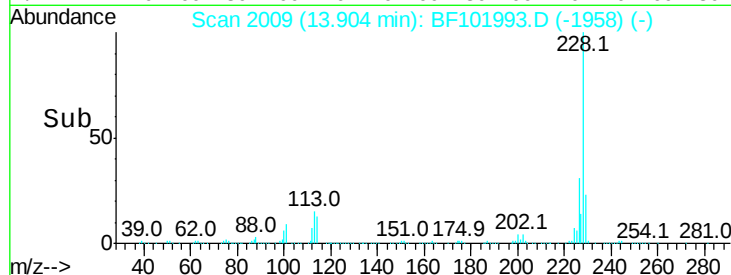
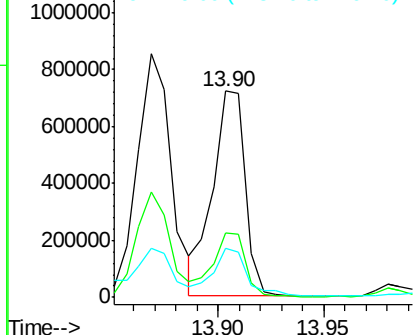
Tot Ion:	228	Resp:	774213
Ion Ratio	Lower	Upper	
228	100		
226	31.3	25.0	37.6
229	24.0	16.2	24.4

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 33.601 ng

RT: 16.67 min Scan# 2480

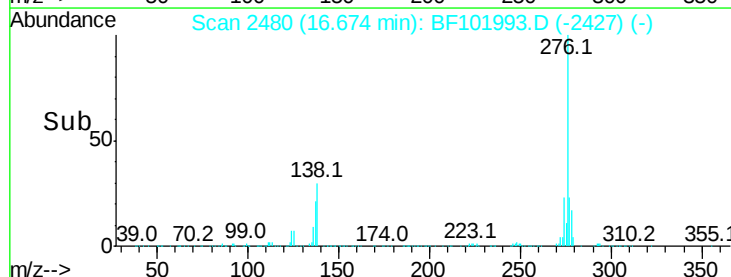
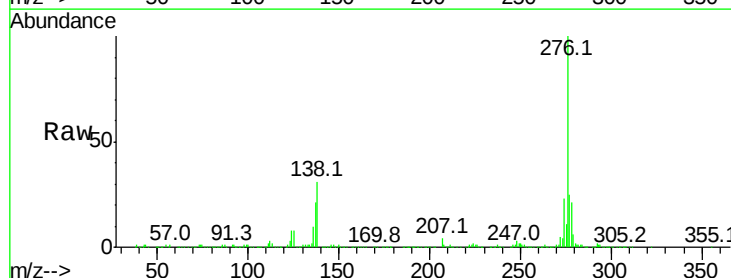
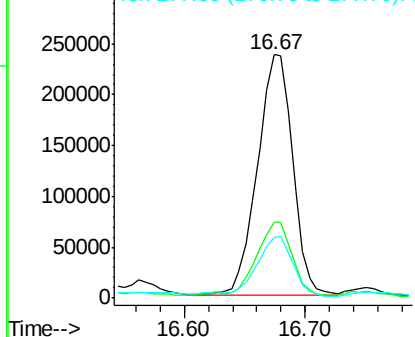
Delta R.T. 0.01 min

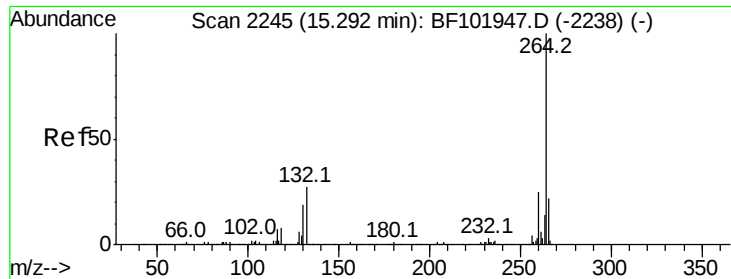
Lab File: BF101993.D

Acq: 10 Jan 2018 21:43

Tgt Ion:	276	Resp:	476939
Ion Ratio	Lower	Upper	
276	100		
138	30.6	25.0	37.6
277	26.1	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





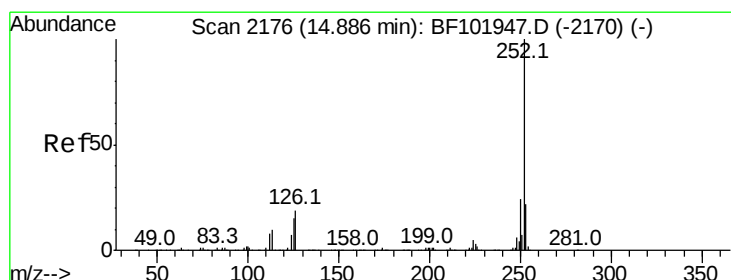
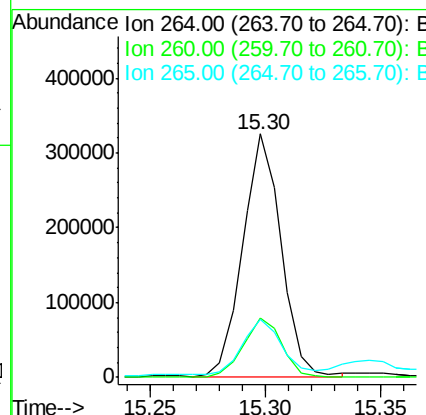
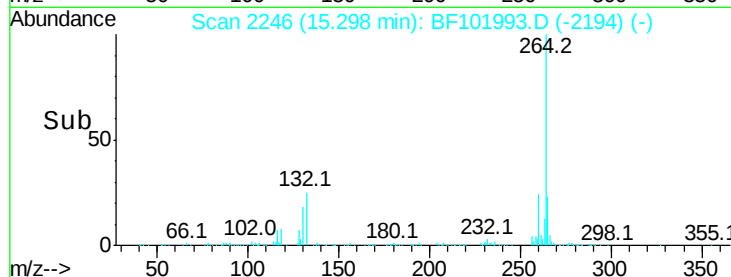
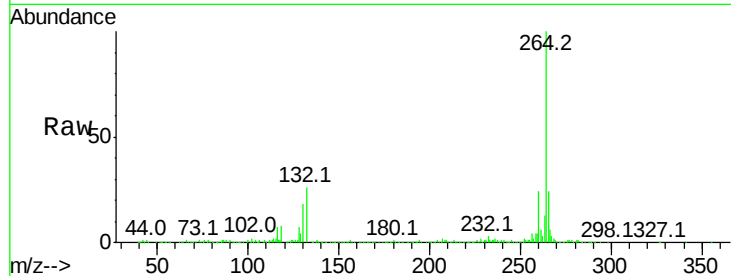
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleId :
WC-43-02

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.8	17.5	26.3

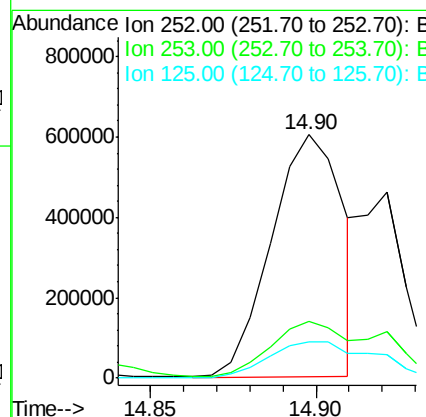
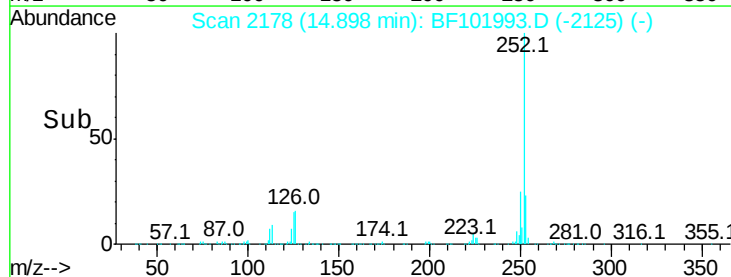
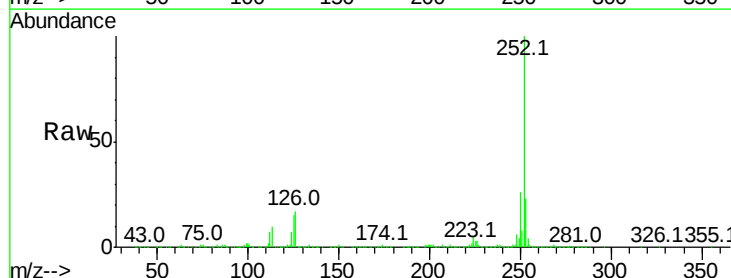
Manual Integrations
APPROVED

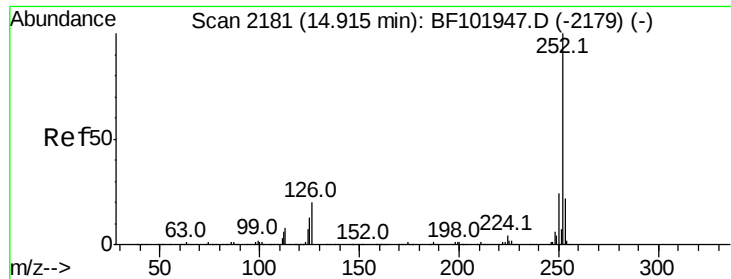
Sohil
1/11/2018 10:53:03 AM



#87
Benzo(b)fluoranthene
Concen: 37.603 ng m
RT: 14.90 min Scan# 2178
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	14.9	9.0	13.6





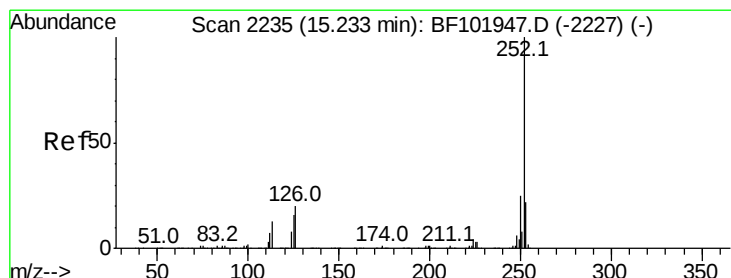
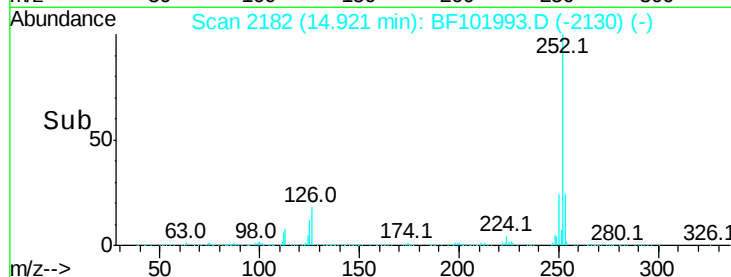
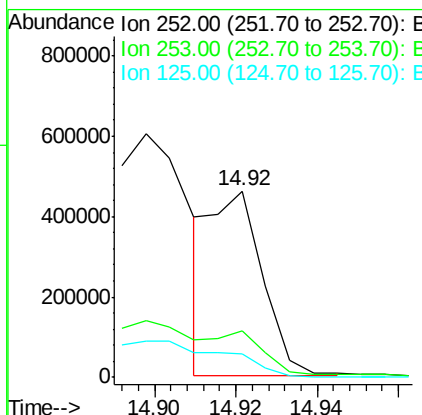
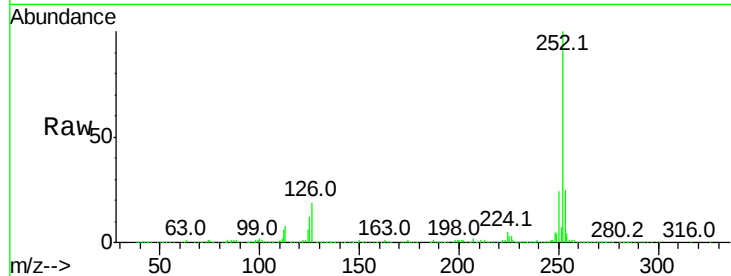
#88
Benzo(k)fluoranthene
Concen: 17.013 ng m
RT: 14.92 min Scan# 2182
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleId :
WC-43-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	12.3	10.2	15.2

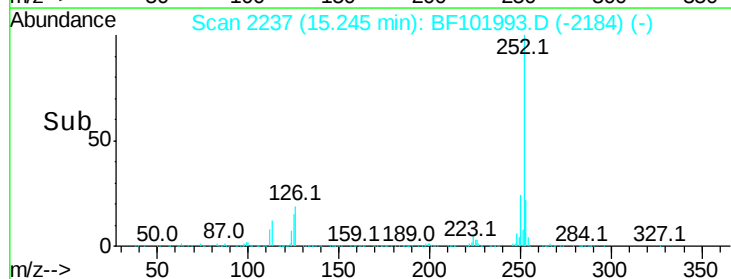
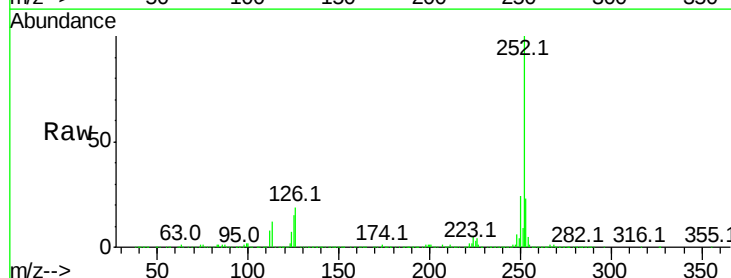
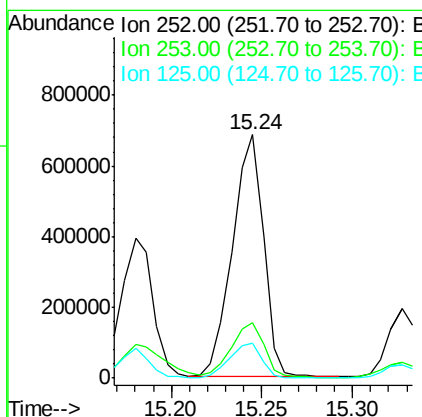
Manual Integrations
APPROVED

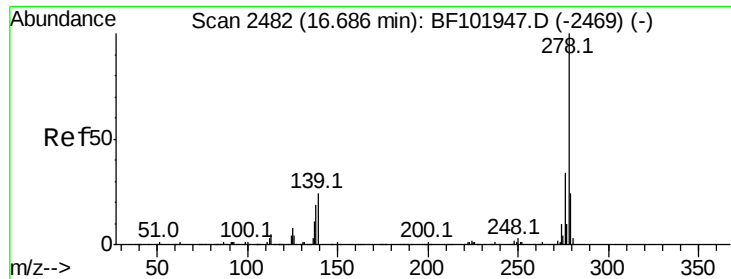
Sohil
1/11/2018 10:53:03 AM



#89
Benzo(a)pyrene
Concen: 37.343 ng
RT: 15.24 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	14.5	9.8	14.6





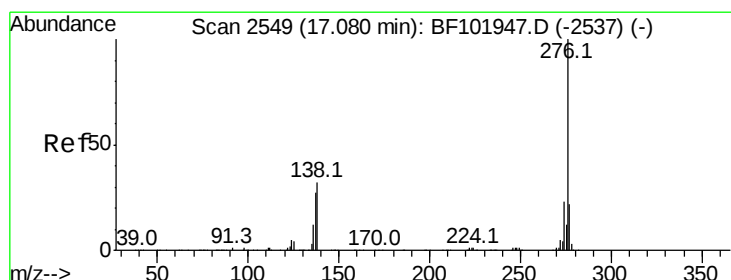
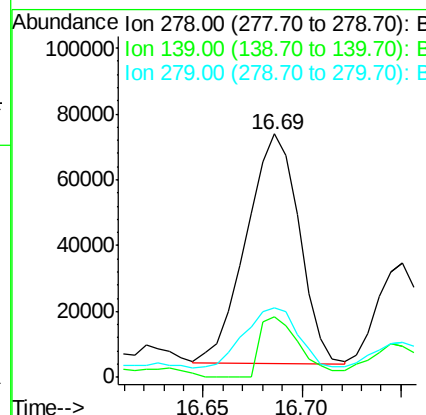
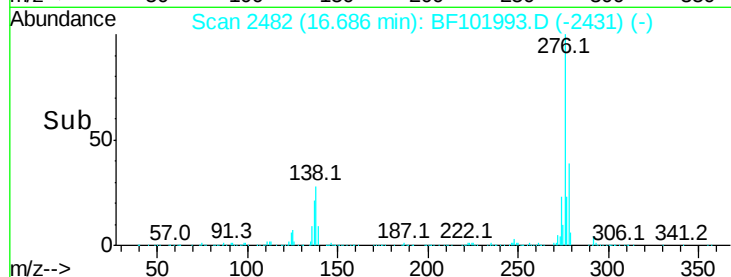
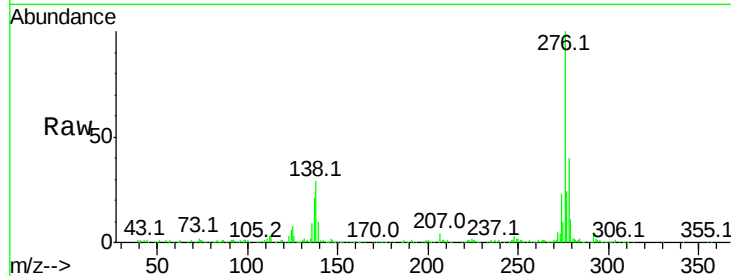
#90
Dibenzo(a,h)anthracene
Concen: 7.455 ng m
RT: 16.69 min Scan# 2482
Delta R.T. 0.00 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Instrument :
BNA_F
ClientSampleId :
WC-43-02

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.7	15.9	23.9#
279	28.5	19.0	28.4#

Manual Integrations
APPROVED

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1/11/2018 10:53:03 AM



#91
Benzo(g,h,i)perylene
Concen: 24.807 ng
RT: 17.09 min Scan# 2551
Delta R.T. 0.01 min
Lab File: BF101993.D
Acq: 10 Jan 2018 21:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	17.9	26.9
138	31.2	21.8	32.8

