

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101401.D
 Acq On : 14 Dec 2017 18:56
 Operator : SJ/JU
 Sample : I6835-01 100X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-02

Manual Integrations
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Sohil
 12/15/2017 6:44:07 PM

Quant Time: Dec 15 00:22:10 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	171874	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	669383	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	309198	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	576954	20.00	ng	0.00
75) Chrysene-d12	14.00	240	369051	20.00	ng	0.00
86) Perylene-d12	15.46	264	315744	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	1158	0.10	ng	0.05
7) Phenol-d6	6.47	99	2113	0.15	ng	0.01
23) Nitrobenzene-d5	7.39	82	1241	0.10	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	492	0.17	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	2504	0.13	ng	0.00
78) Terphenyl-d14	12.92	244	4573	0.30	ng	-0.01

Target Compounds

						Qvalue
10) Phenol	6.48	94	48086	2.938	ng	99
20) 3+4-Methylphenols	7.24	107	62669	5.297	ng	86
27) 2,4-Dimethylphenol	7.76	122	25944	2.671	ng	91
31) Naphthalene	8.13	128	4337941	128.725	ng	98
37) 2-Methylnaphthalene	8.81	142	848848	38.662	ng	99
45) 1,1'-Biphenyl	9.27	154	254372	9.276	ng	97
48) Acenaphthylene	9.72	152	1136256	34.287	ng	99
51) Acenaphthene	9.89	154	201017	10.096	ng	99
54) Dibenzofuran	10.06	168	842777	33.308	ng	99
57) Fluorene	10.40	166	961908	44.939	ng	99
70) Phenanthrene	11.38	178	2485010	77.450	ng	99
71) Anthracene	11.43	178	1123019	34.265	ng	99
72) Carbazole	11.58	167	481349	15.687	ng	99
74) Fluoranthene	12.57	202	1878524	55.779	ng	98
77) Pyrene	12.80	202	1486180	53.658	ng	99
80) Benzo(a)anthracene	13.99	228	679037m	27.865	ng	
82) Chrysene	14.02	228	575107m	24.995	ng	
85) Indeno(1,2,3-cd)pyrene	16.94	276	191227	9.333	ng	# 93
87) Benzo(b)fluoranthene	15.04	252	507405m	26.365	ng	
88) Benzo(k)fluoranthene	15.06	252	151555m	8.099	ng	
89) Benzo(a)pyrene	15.40	252	378721	21.347	ng	97
90) Dibenz(a,h)anthracene	16.94	278	56175m	3.688	ng	
91) Benzo(g,h,i)perylene	17.39	276	168141	11.147	ng	95

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

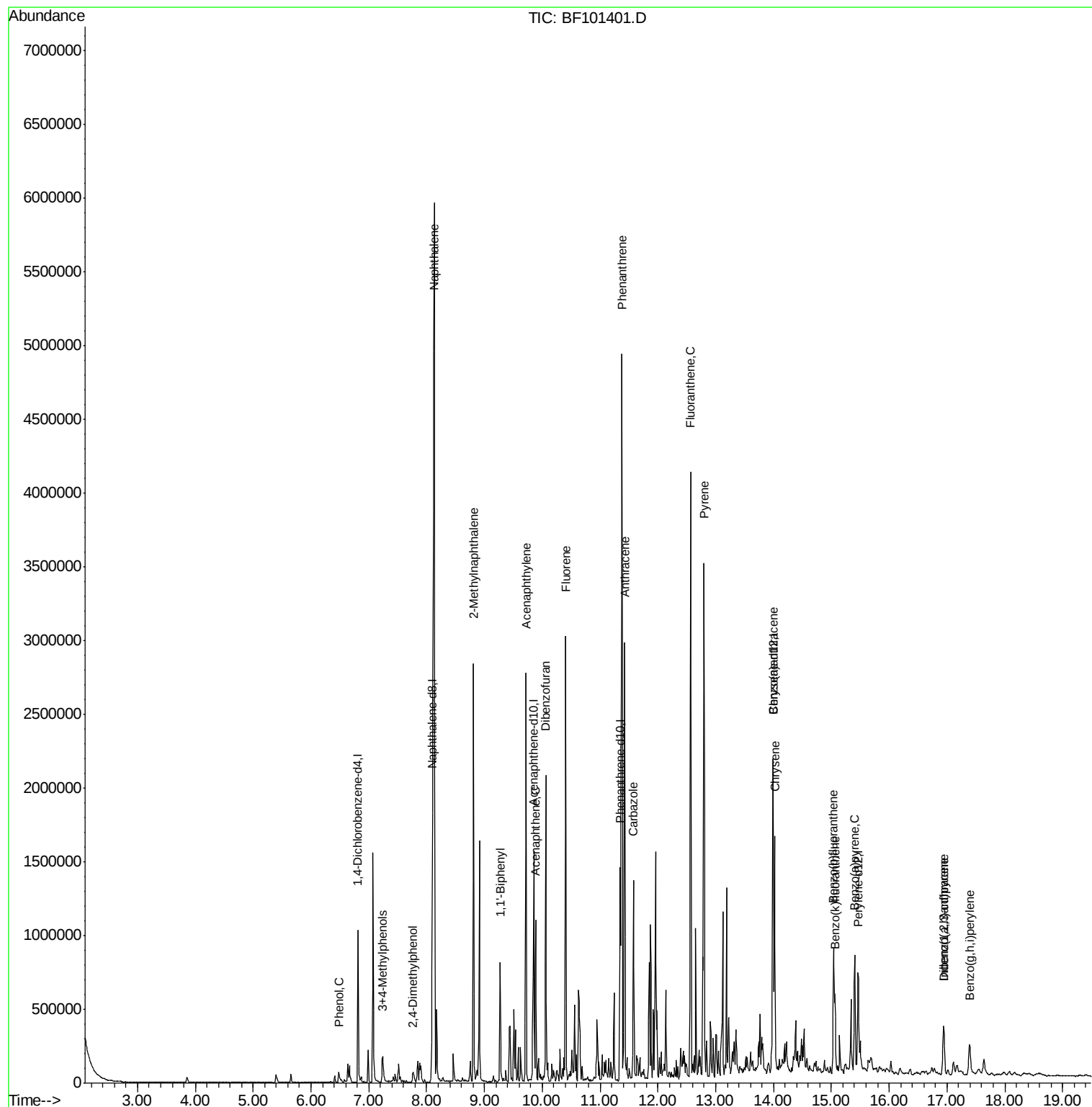
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
Data File : BF101401.D
Acq On : 14 Dec 2017 18:56
Operator : SJ/JU
Sample : I6835-01 100X
Misc :
ALS Vial : 6 Sample Multiplier: 1

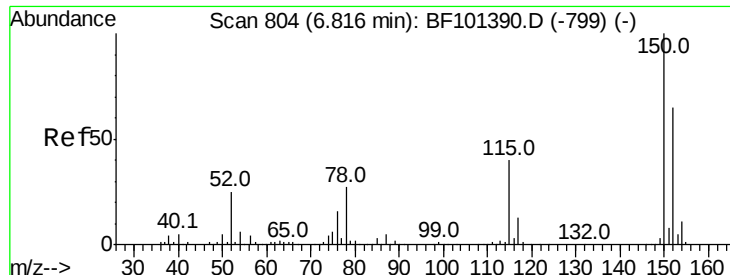
Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Manual Integrations
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Quant Time: Dec 15 00:22:10 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 14 15:42:32 2017
Response via : Initial Calibration





#1

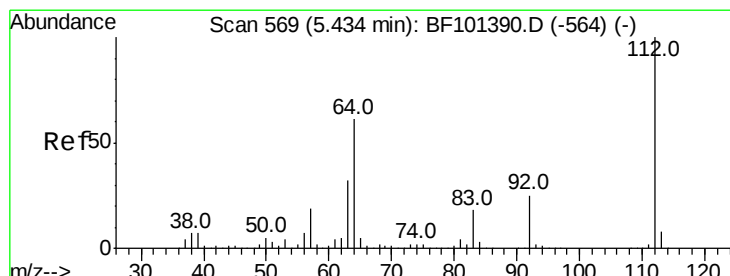
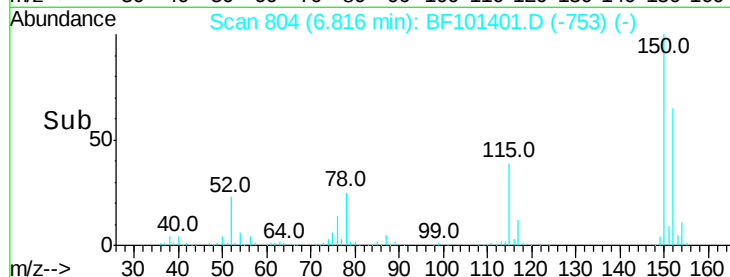
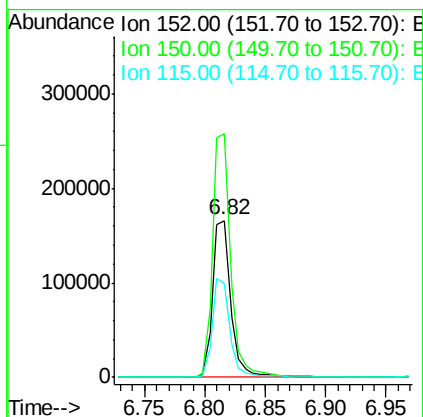
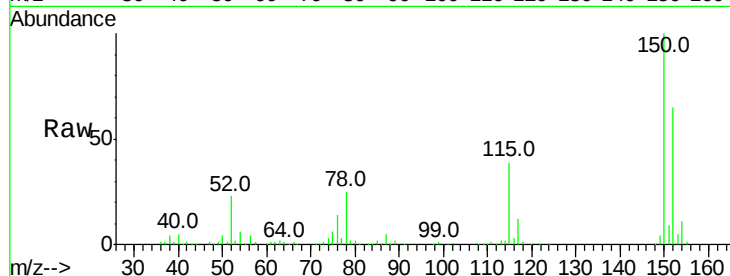
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.6	186.8
115	59.7	50.1	75.1

Manual Integrations
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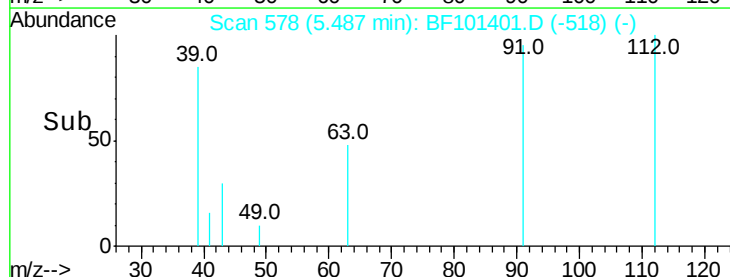
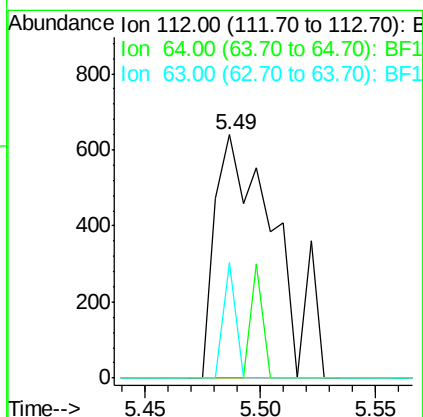
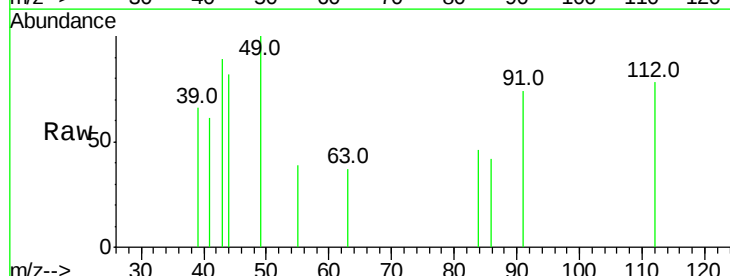
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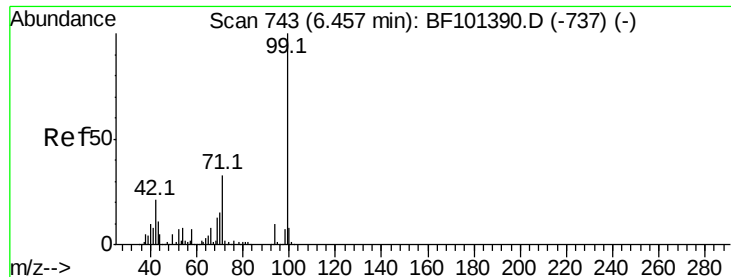


#5

2-Fluorophenol
Concen: 0.100 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.05 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	47.9	71.9#
63	47.5	23.7	35.5#





#7

Phenol-d6

Concen: 0.147 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Instrument :

BNA_F

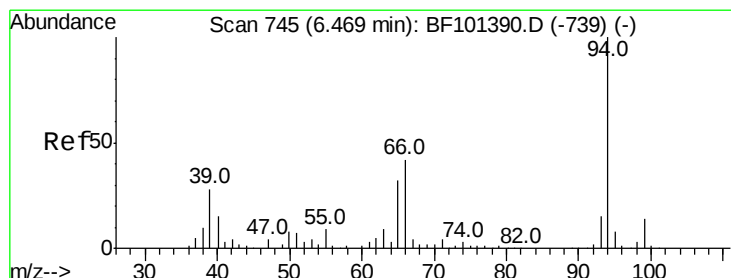
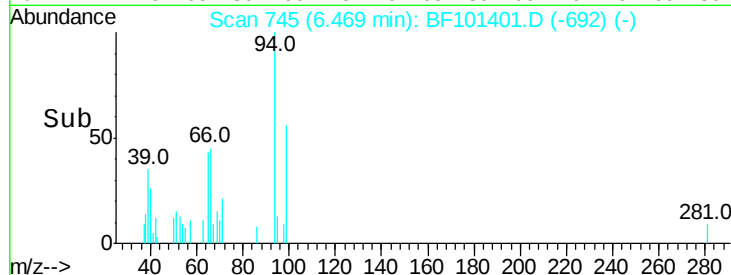
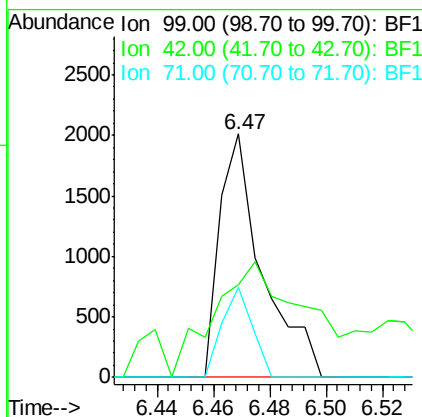
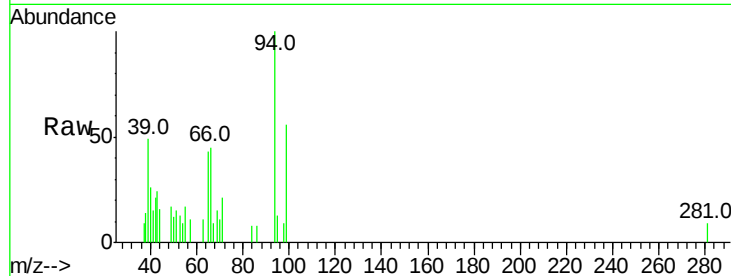
ClientSampled :

WC-4539-02

Tot Ion	Ratio	Lower	Upper
99	100		
42	38.0	14.5	21.7#
71	37.1	25.4	38.0

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#10

Phenol

Concen: 2.938 ng

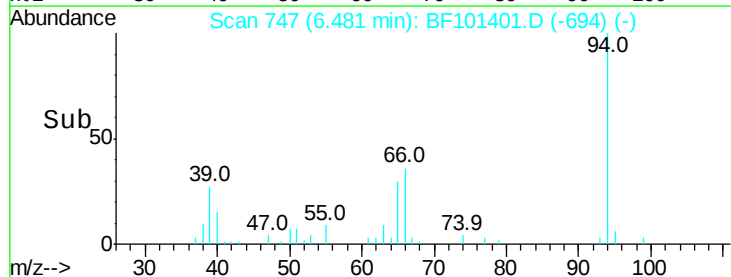
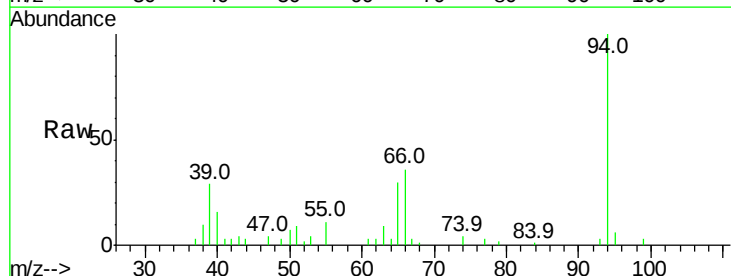
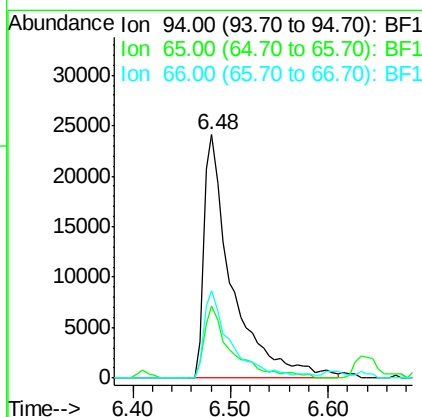
RT: 6.48 min Scan# 747

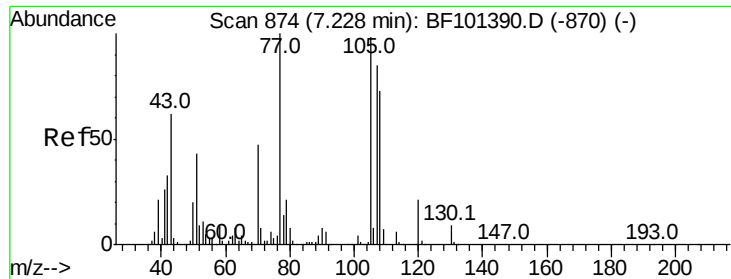
Delta R.T. 0.01 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Lower	Upper
94	100		
65	29.6	7.9	47.9
66	36.2	16.2	56.2





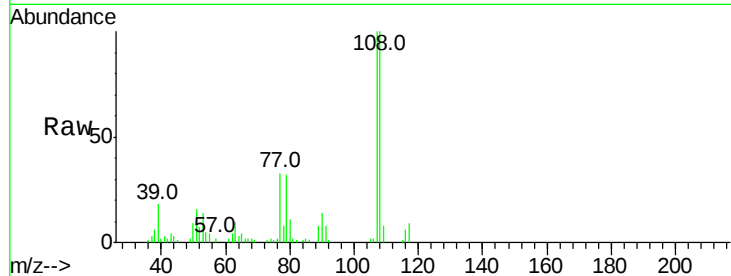
#20
3+4-Methylphenols
Concen: 5.297 ng
RT: 7.24 min Scan# 876
Delta R.T. 0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

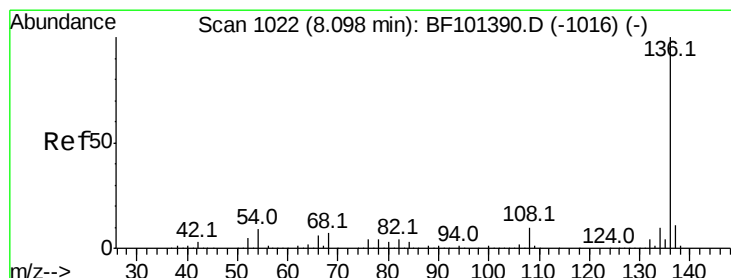
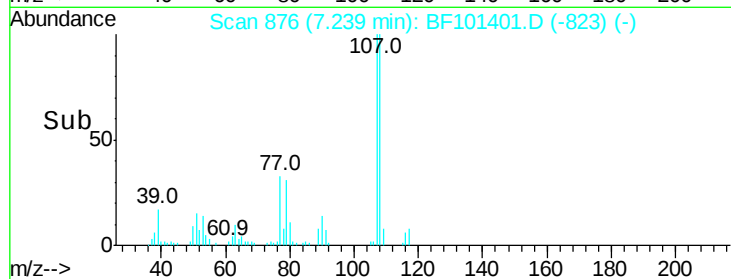
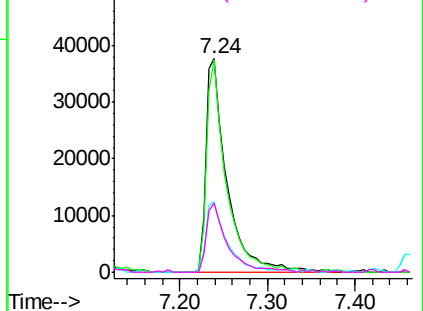
Tot Ion	107	Resp	62669
Ion	Ratio	Lower	Upper
107	100		
108	99.6	68.2	108.2
77	33.0	26.7	66.7
79	32.1	6.3	46.3

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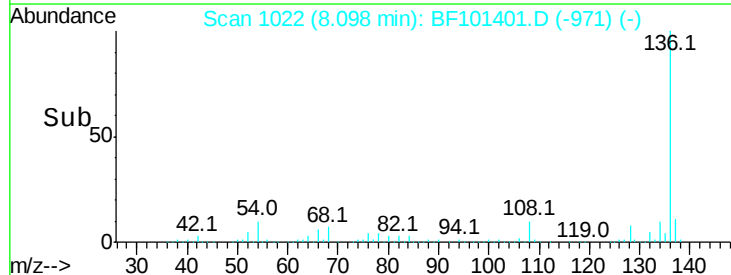
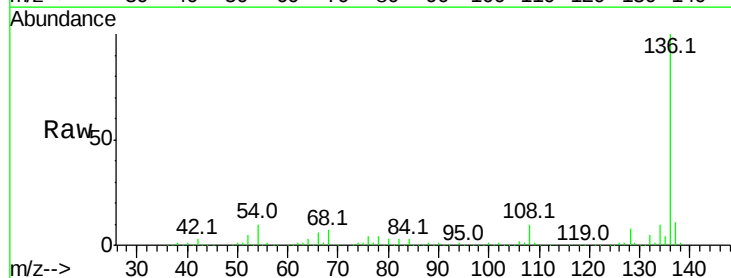
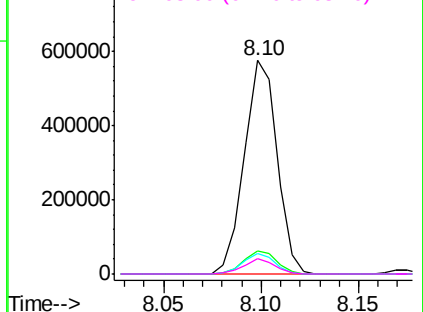
Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

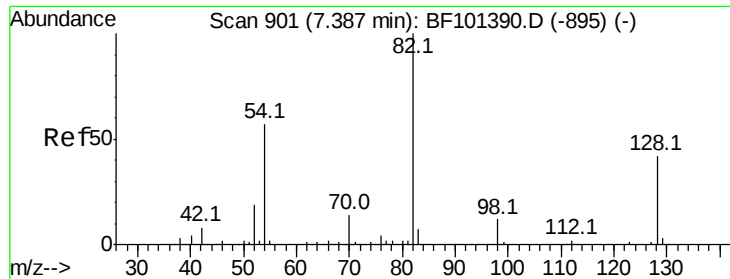


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion	136	Resp	669383
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	9.7	6.6	9.8
68	7.0	5.0	7.4

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





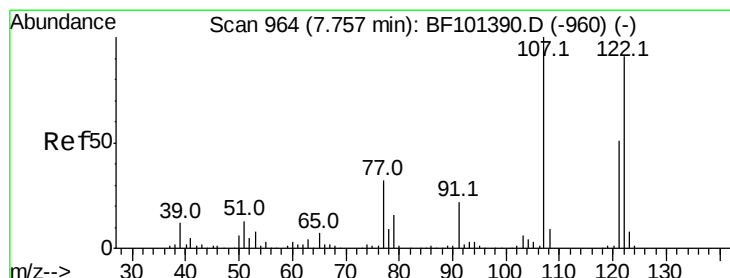
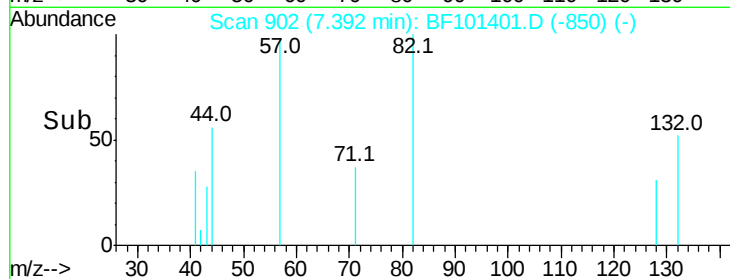
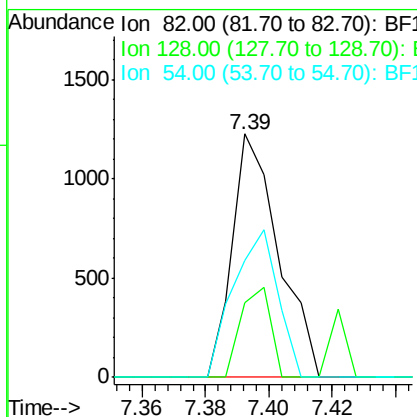
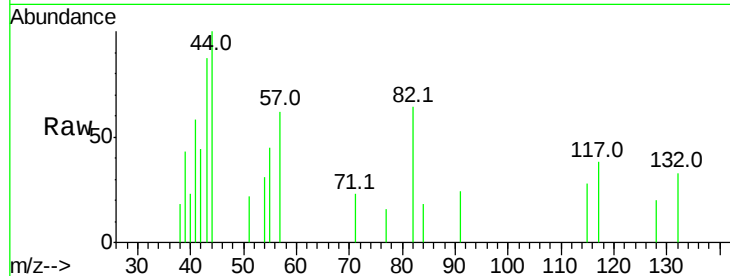
#23
 Nitrobenzene-d5
 Concen: 0.103 ng
 RT: 7.39 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: BF101401.D
 Acq: 14 Dec 2017 18:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-02

Tot Ion	Ratio	Lower	Upper
82	100		
128	30.7	36.1	54.1#
54	48.0	41.4	62.2

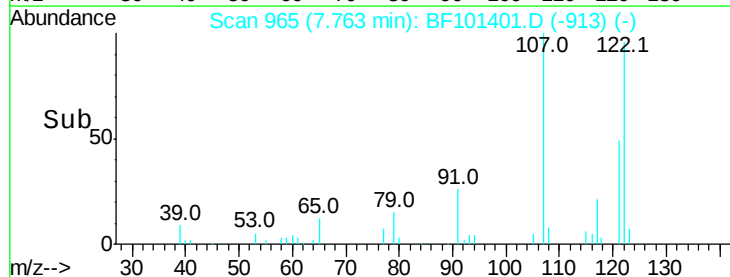
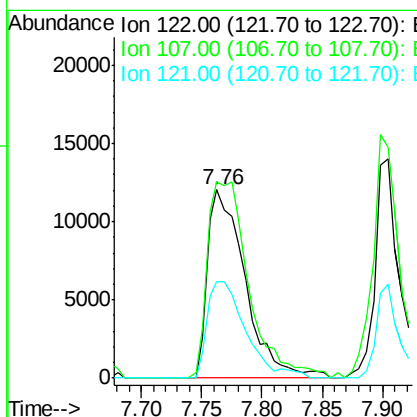
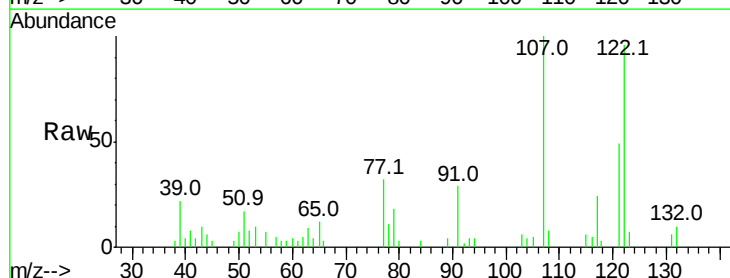
Manual Integrations
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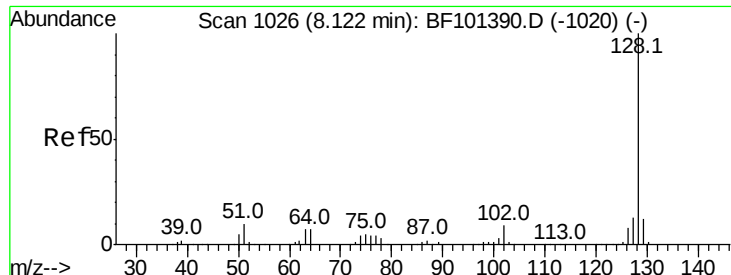
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#27
 2,4-Dimethylphenol
 Concen: 2.671 ng
 RT: 7.76 min Scan# 965
 Delta R.T. 0.01 min
 Lab File: BF101401.D
 Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Lower	Upper
122	100		
107	104.5	91.2	136.8
121	51.5	47.2	70.8





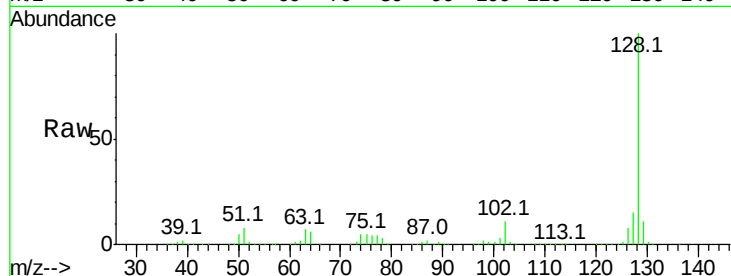
#31
Naphthalene
Concen: 128.725 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

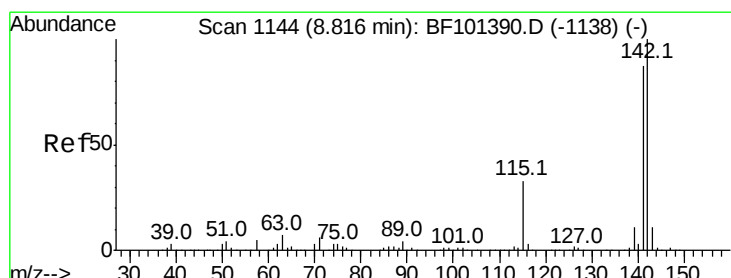
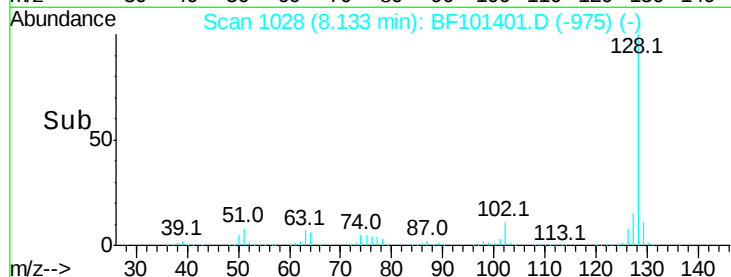
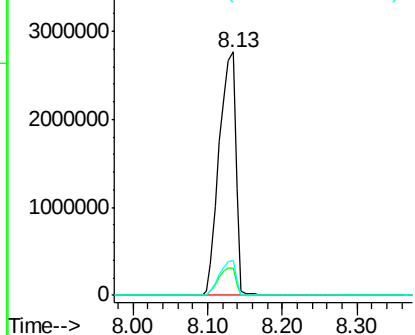
Tot Ion:128 Resp: 4337941
Ion Ratio Lower Upper
128 100
129 11.4 8.8 13.2
127 14.6 10.9 16.3

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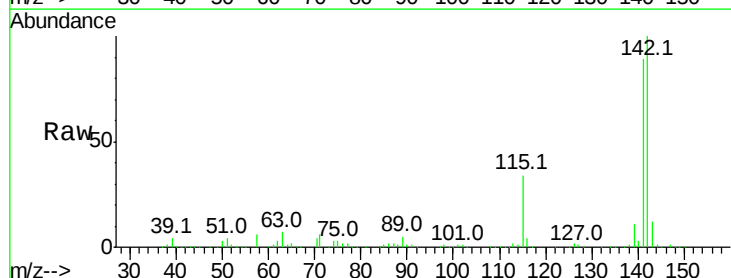


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

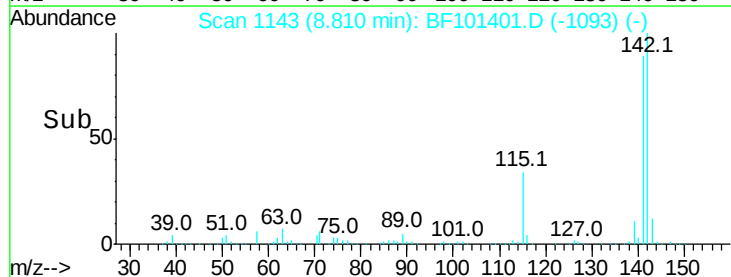
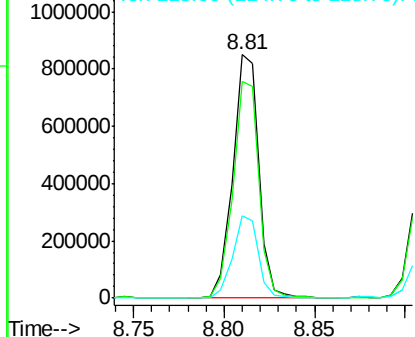


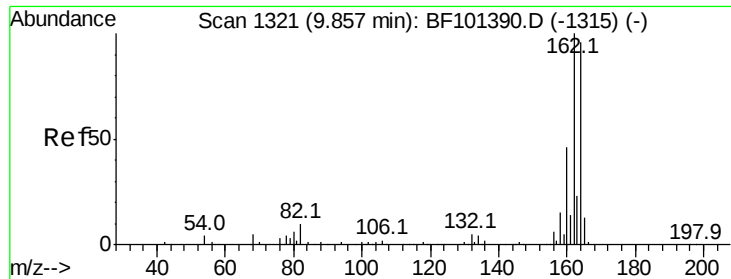
#37
2-Methylnaphthalene
Concen: 38.662 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion:142 Resp: 848848
Ion Ratio Lower Upper
142 100
141 88.9 70.8 106.2
115 34.0 26.1 39.1



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





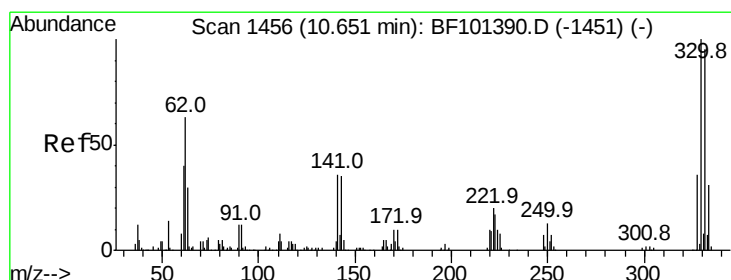
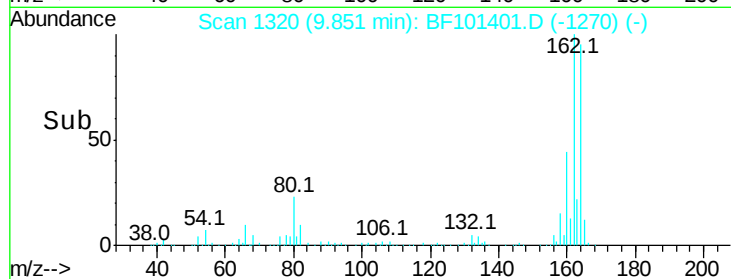
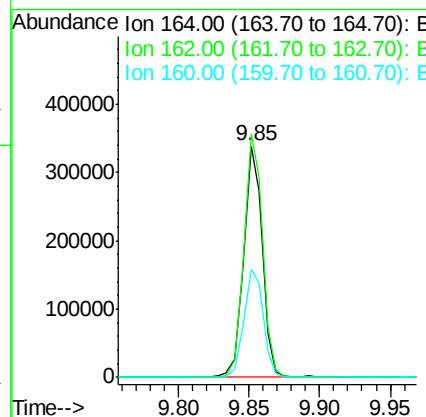
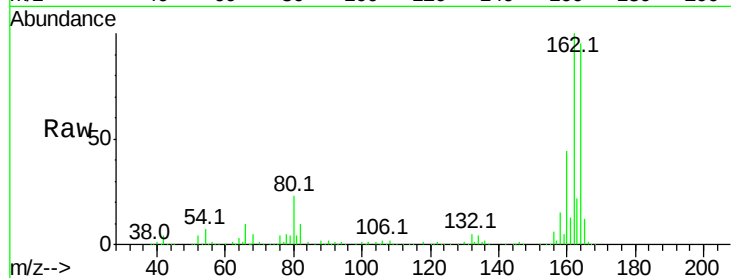
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BF101401.D
 Acq: 14 Dec 2017 18:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-02

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.3	86.1	129.1	
160	46.6	38.3	57.5	

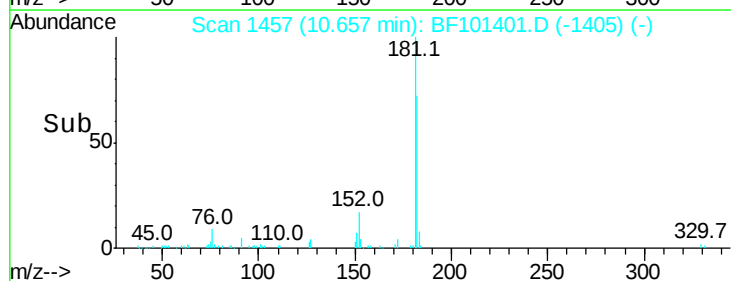
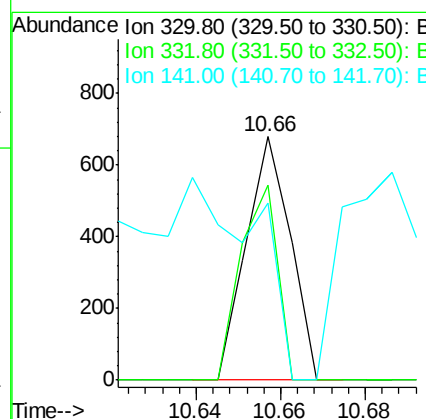
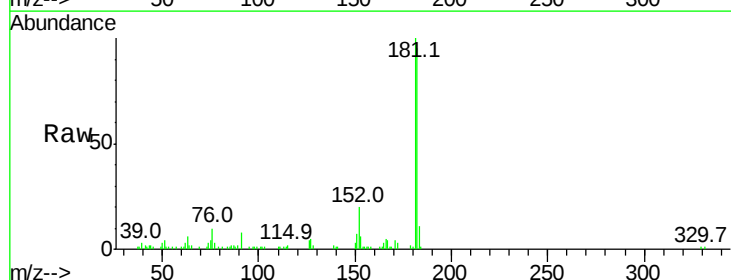
Manual Integrations
 APPROVED

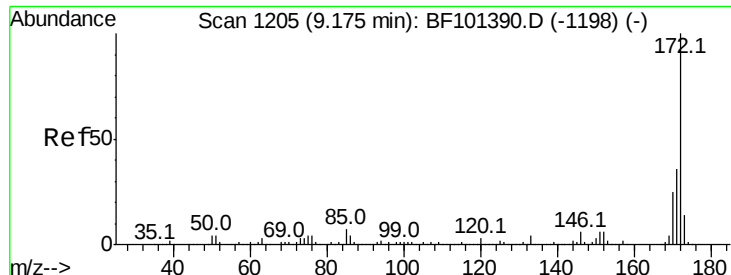
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#41
 2,4,6-Tribromophenol
 Concen: 0.165 ng
 RT: 10.66 min Scan# 1457
 Delta R.T. 0.01 min
 Lab File: BF101401.D
 Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	66.5	77.0	115.6#	
141	0.0	29.9	44.9#	





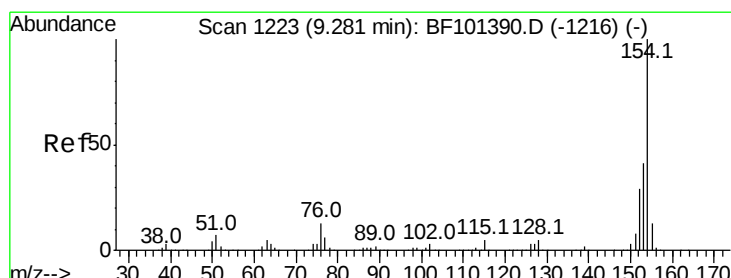
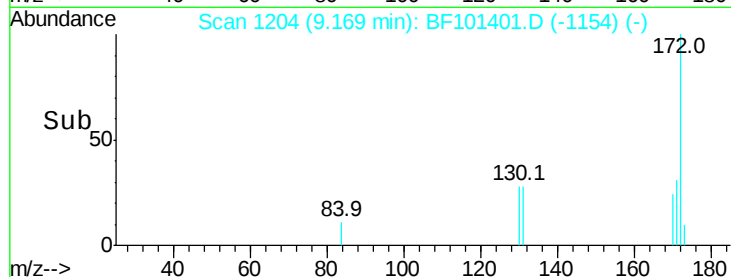
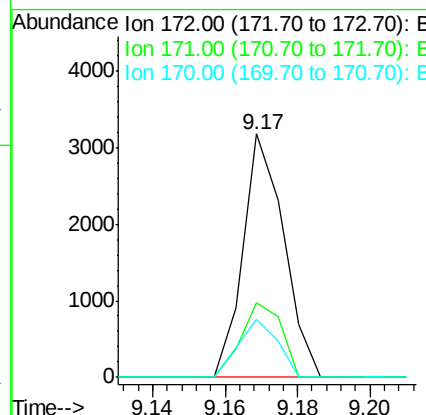
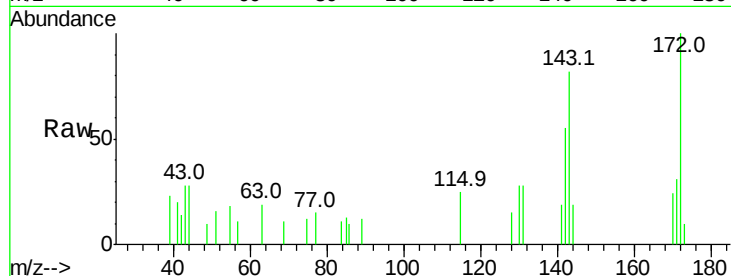
#44
2-Fluorobiphenyl
Concen: 0.126 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion	Ratio	Resp	Lower	Upper
172	100	2504		
171	30.5		29.7	44.5
170	23.7		19.6	29.4

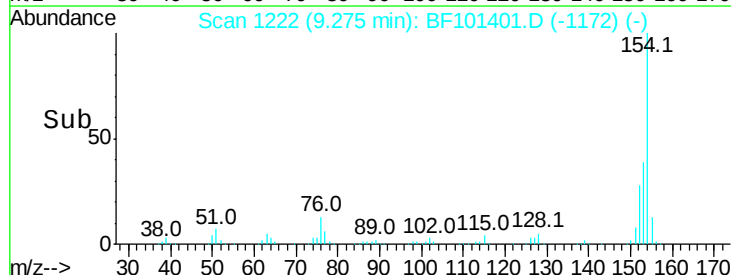
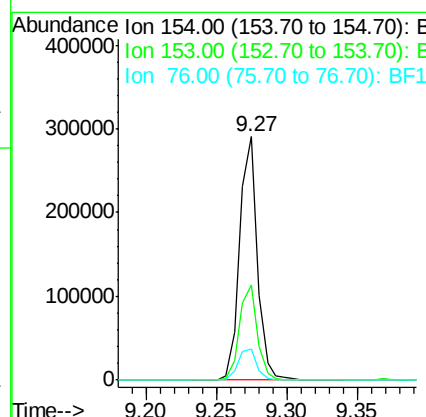
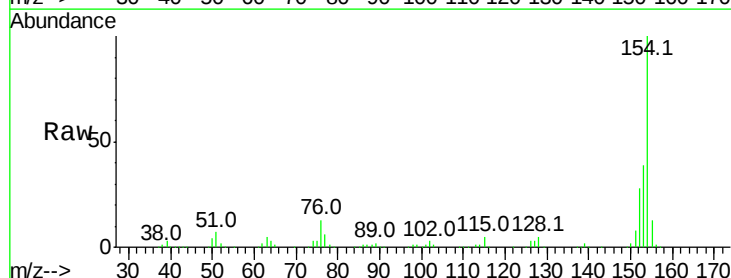
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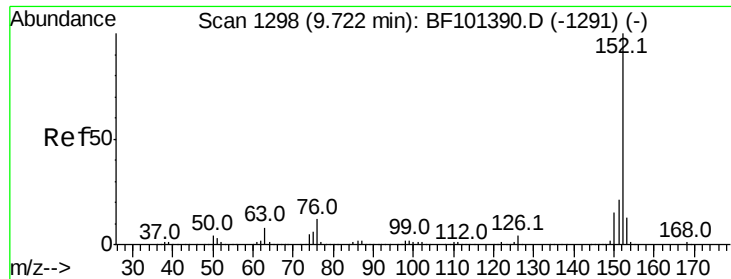
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#45
1,1'-Biphenyl
Concen: 9.276 ng
RT: 9.27 min Scan# 1222
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	254372		
153	39.1		21.3	61.3
76	12.8		0.0	34.0





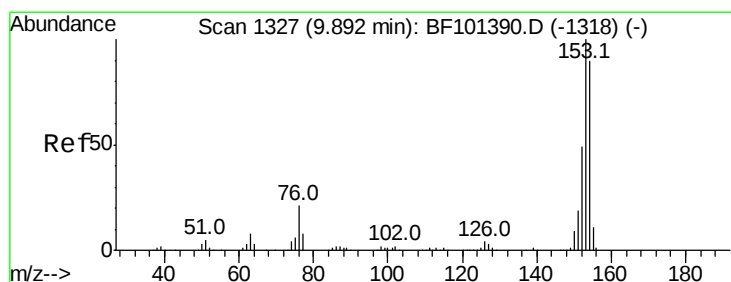
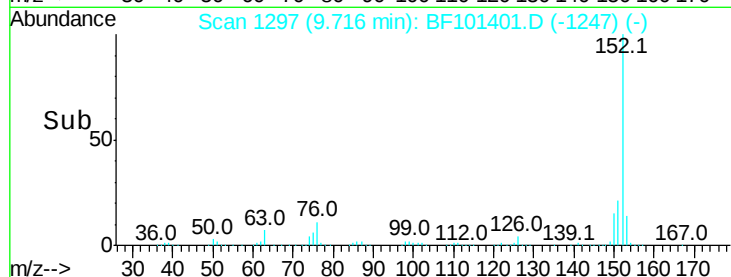
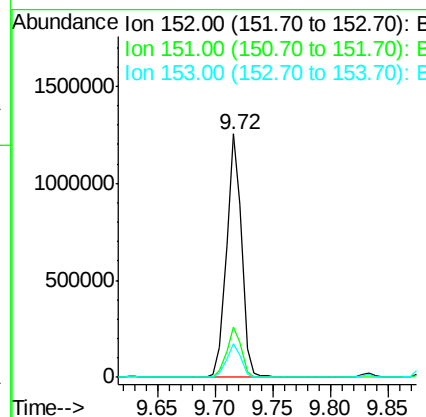
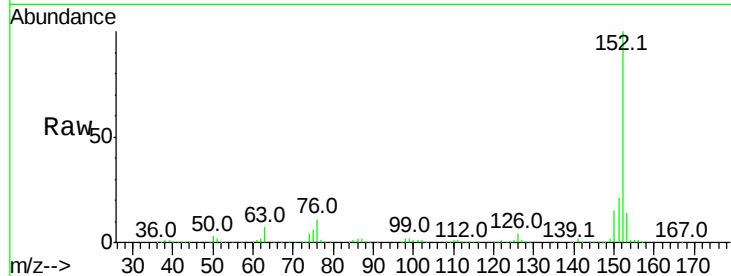
#48
Acenaphthylene
Concen: 34.287 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.3	24.5
153	13.6	10.7	16.1

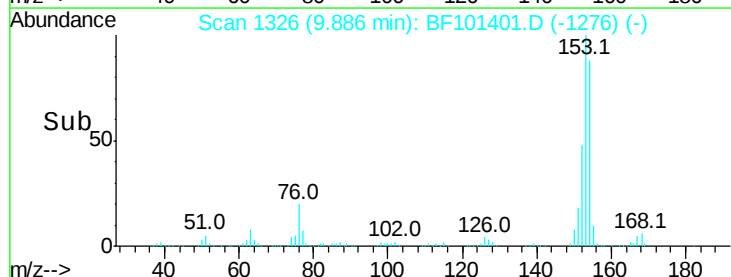
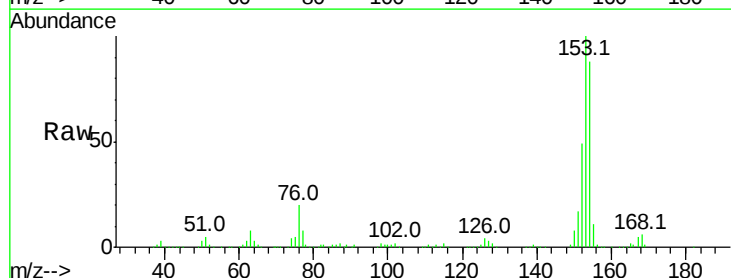
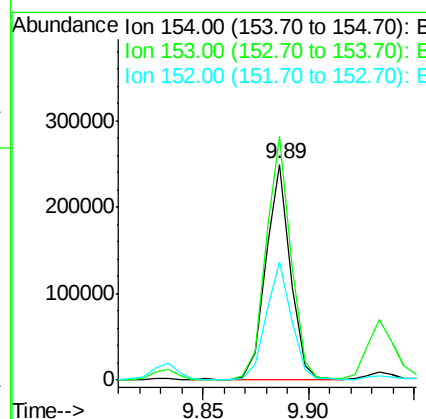
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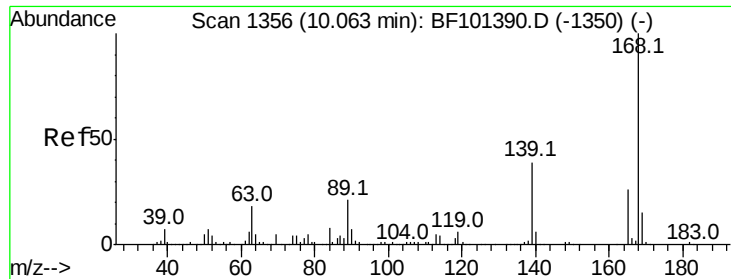
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#51
Acenaphthene
Concen: 10.096 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.0	91.2	136.8
152	54.9	43.8	65.8





#54

Dibenzenofuran

Concen: 33.308 ng

RT: 10.06 min Scan# 1356

Delta R.T. -0.00 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Instrument :

BNA_F

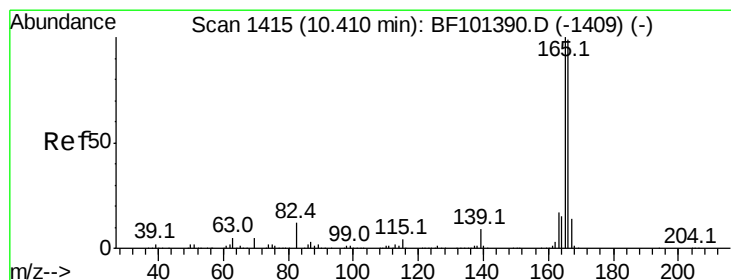
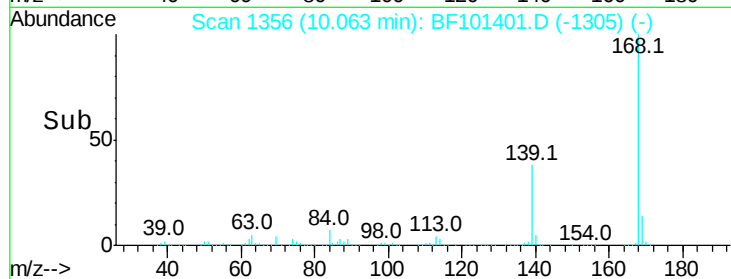
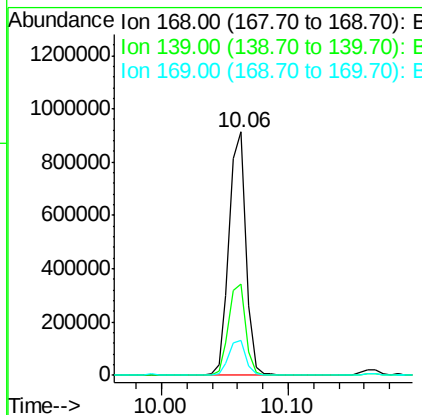
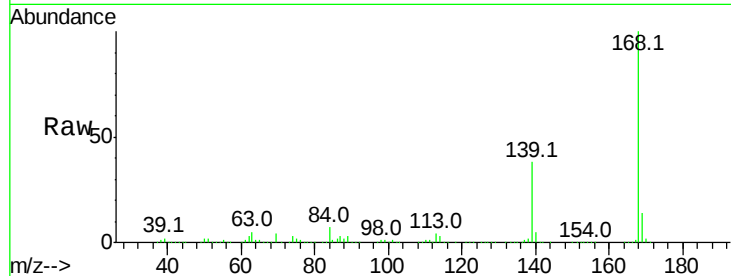
ClientSampleId :

WC-4539-02

Tot Ion:	168	Resp:	842777
Ion Ratio	Lower	Upper	
168	100		
139	37.7	30.1	45.1
169	14.2	10.9	16.3

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#57

Fluorene

Concen: 44.939 ng

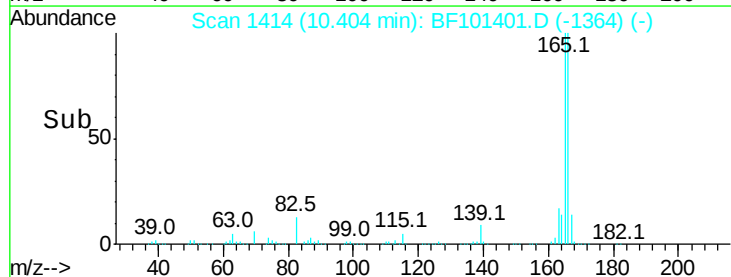
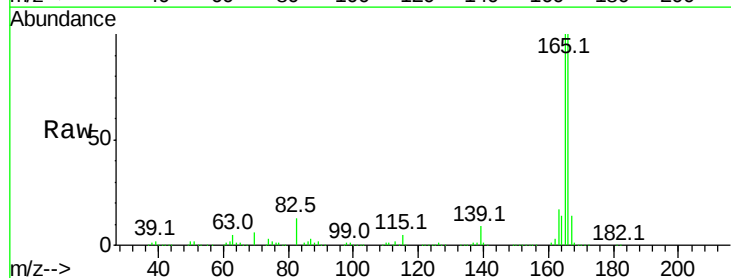
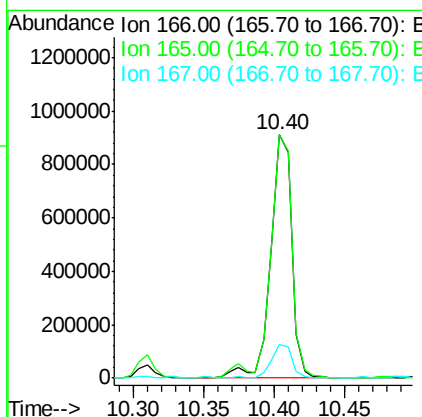
RT: 10.40 min Scan# 1414

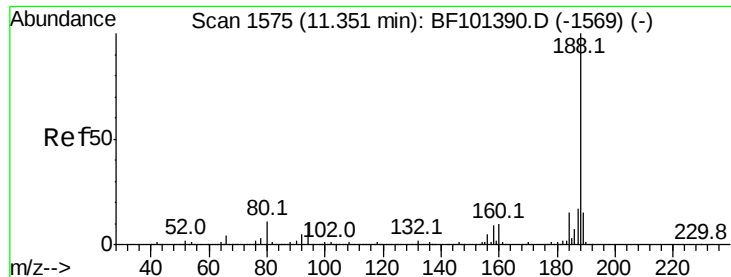
Delta R.T. -0.01 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Tgt Ion:	166	Resp:	961908
Ion Ratio	Lower	Upper	
166	100		
165	100.2	79.8	119.8
167	13.9	10.6	16.0





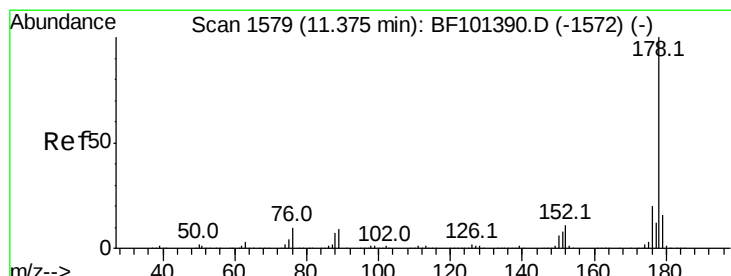
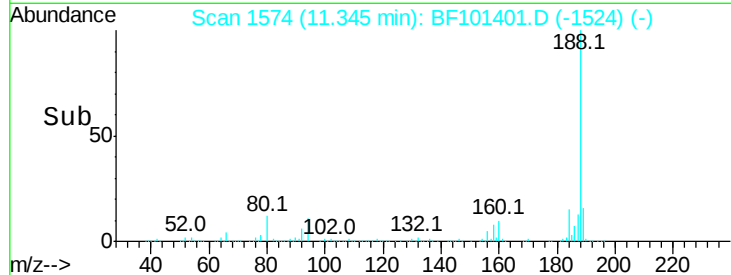
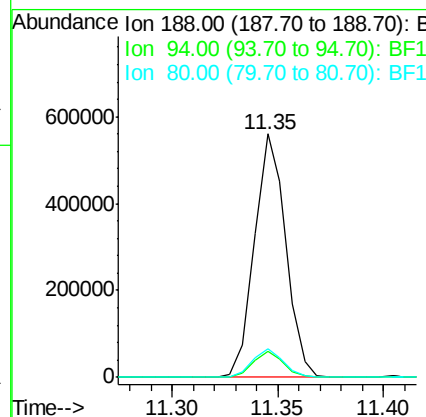
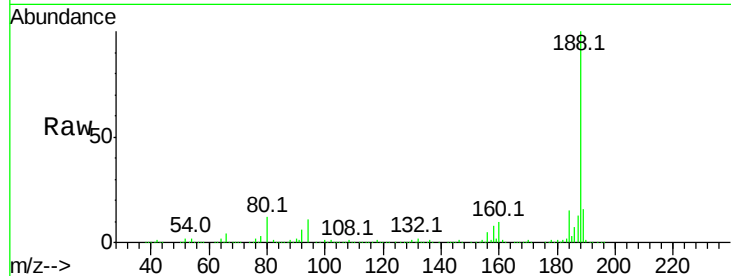
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion	Ratio	Resp	Lower	Upper
188	100	576954		
94	10.9		8.5	12.7
80	11.7		9.2	13.8

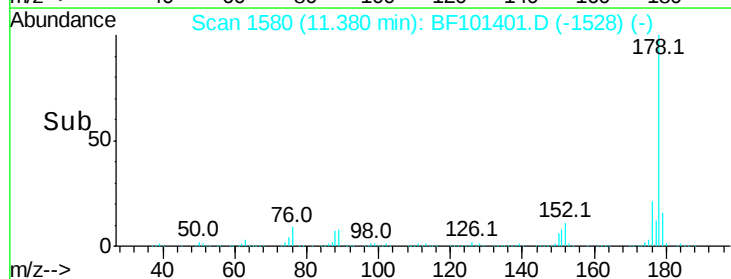
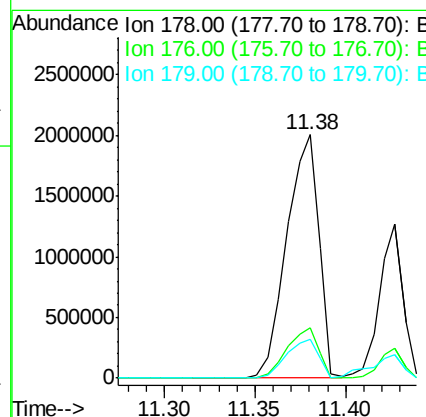
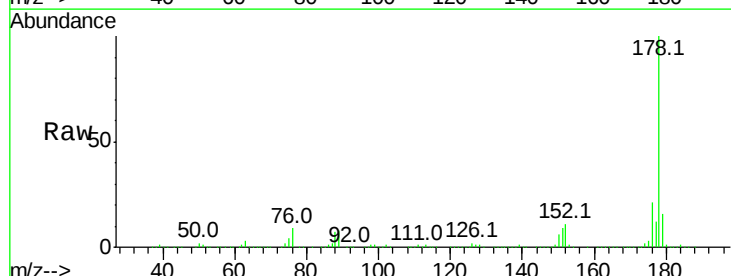
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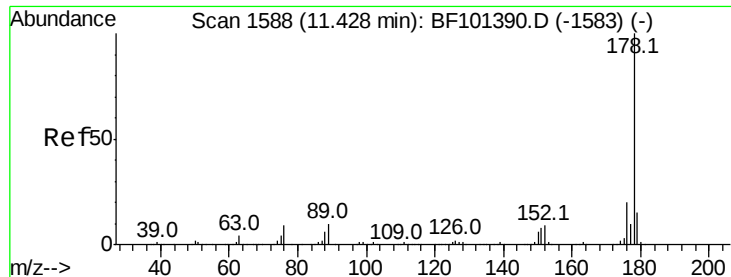
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#70
Phenanthrene
Concen: 77.450 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2485010		
176	20.8		15.8	23.8
179	16.1		13.0	19.6





#71
 Anthracene
 Concen: 34.265 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: BF101401.D
 Acq: 14 Dec 2017 18:56

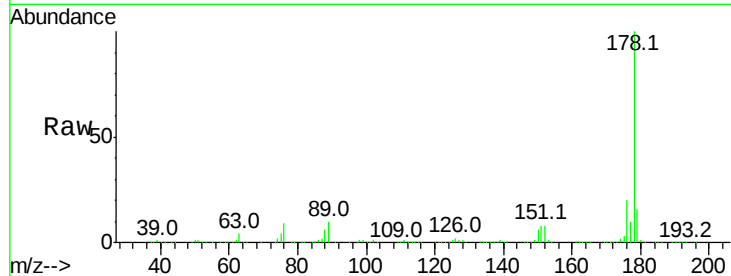
Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-02

Tot Ion:178 Resp: 1123019

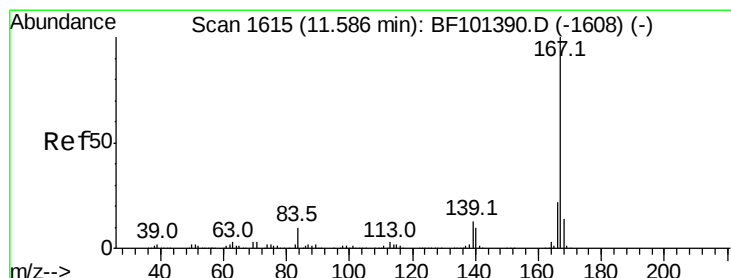
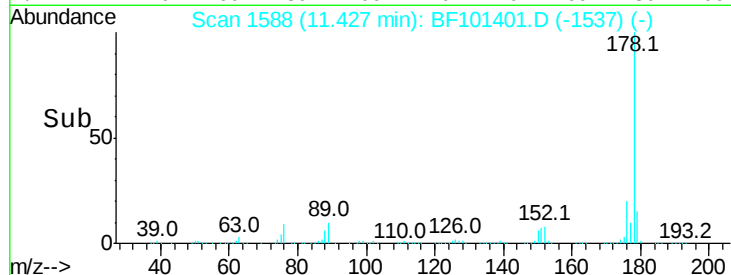
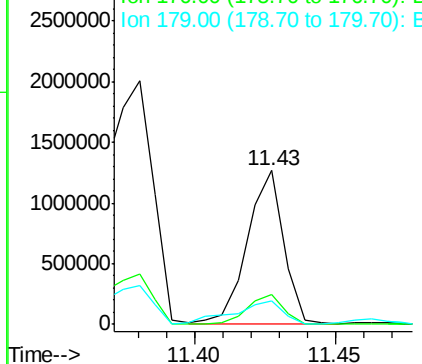
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	15.5	12.6	19.0

Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

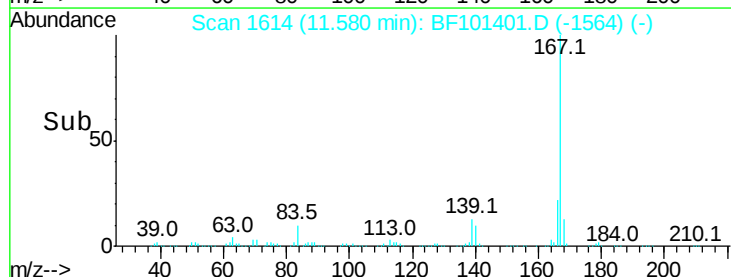
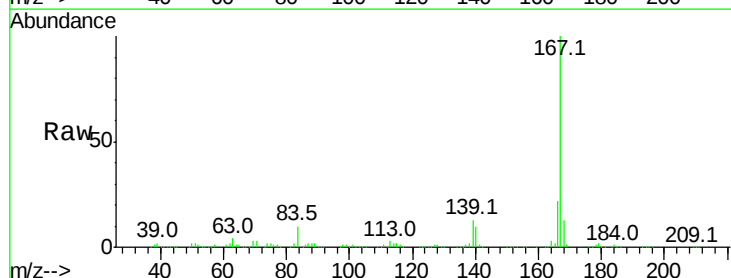
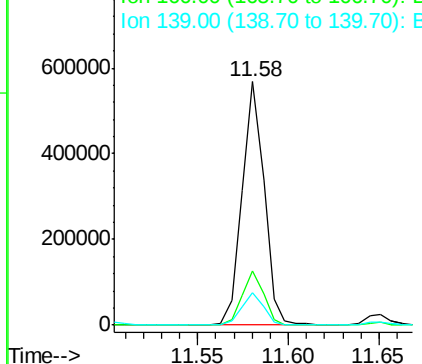


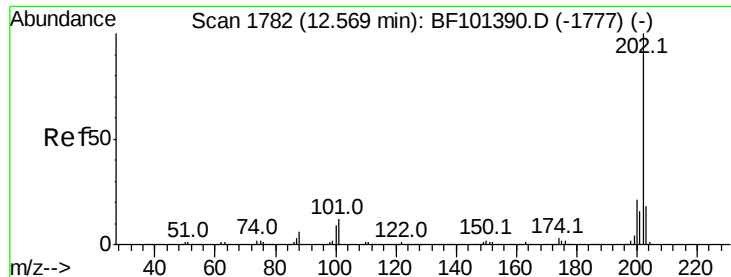
#72
 Carbazole
 Concen: 15.687 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF101401.D
 Acq: 14 Dec 2017 18:56

Tgt Ion:167 Resp: 481349

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.6	26.4
139	13.2	10.9	16.3

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 55.779 ng

RT: 12.57 min Scan# 1782

Delta R.T. -0.00 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Instrument :

BNA_F

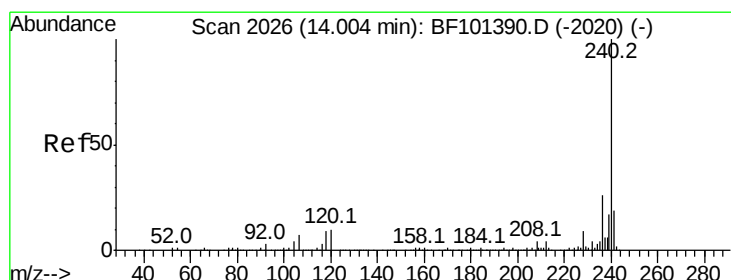
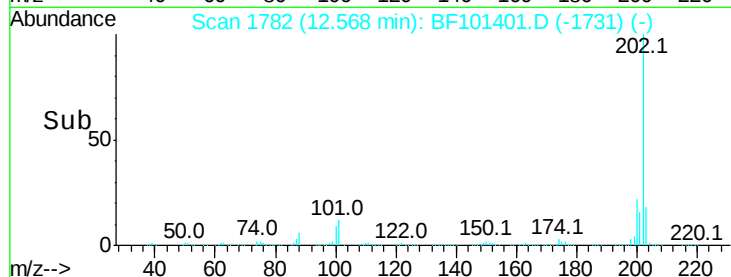
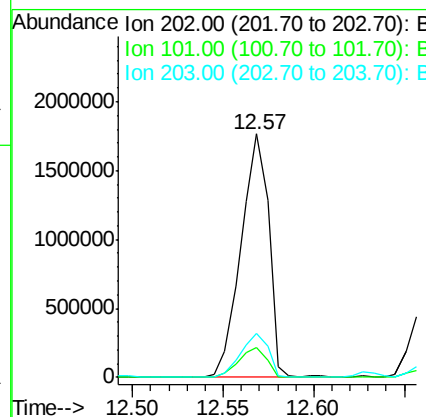
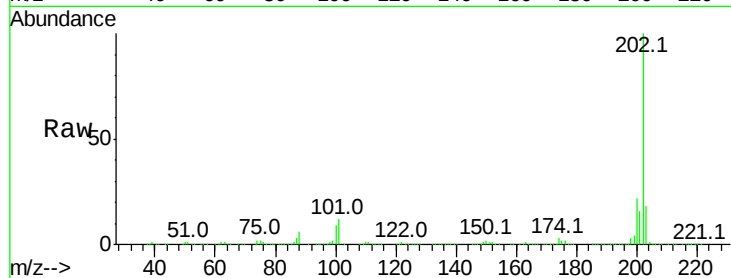
ClientSampleId :

WC-4539-02

Tot Ion:	202	Resp:	1878524
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	34.1
203	18.0	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

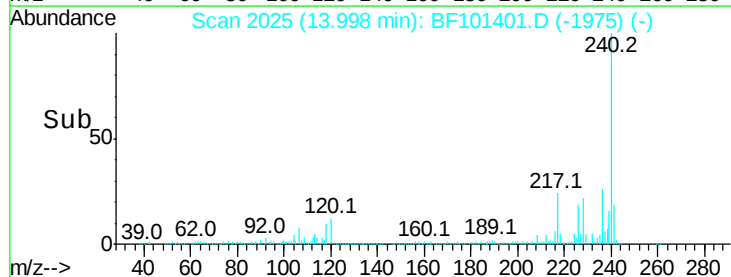
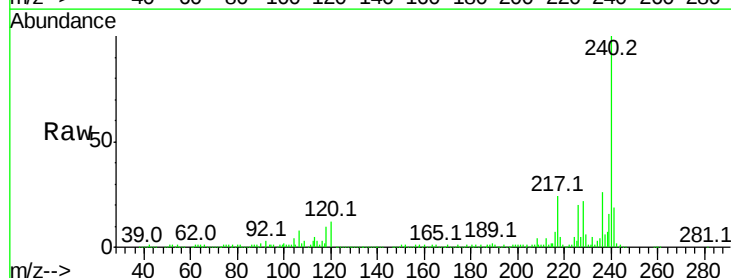
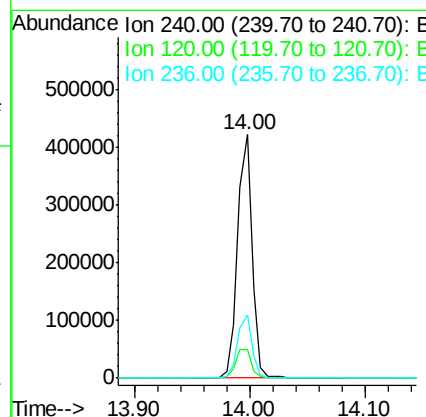
RT: 14.00 min Scan# 2025

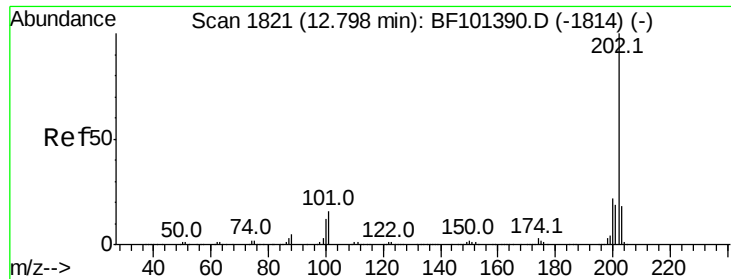
Delta R.T. -0.01 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Tgt Ion:	240	Resp:	369051
Ion Ratio	Lower	Upper	
240	100		
120	11.6	9.5	14.3
236	26.0	20.7	31.1





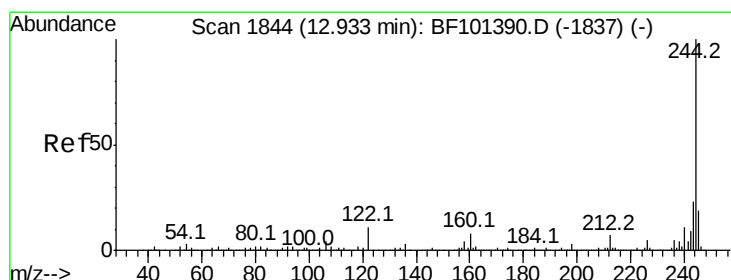
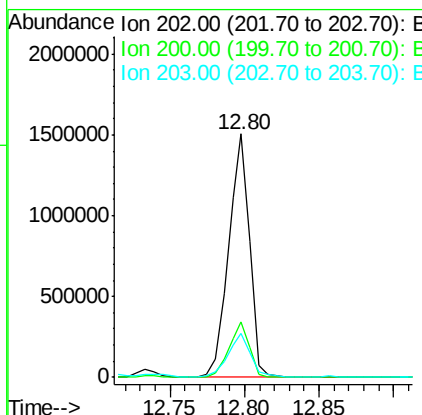
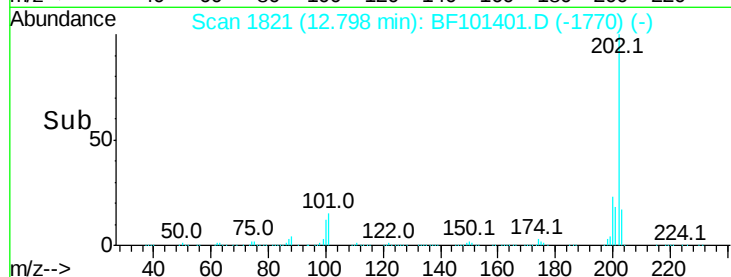
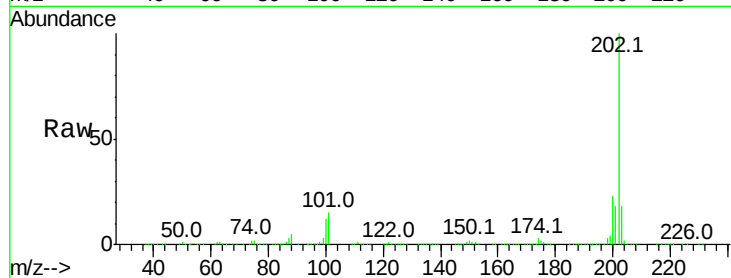
#77
Pvrene
Concen: 53.658 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.00 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion:202 Resp: 1486180
Ion Ratio Lower Upper
202 100
200 22.6 17.4 26.2
203 18.1 14.3 21.5

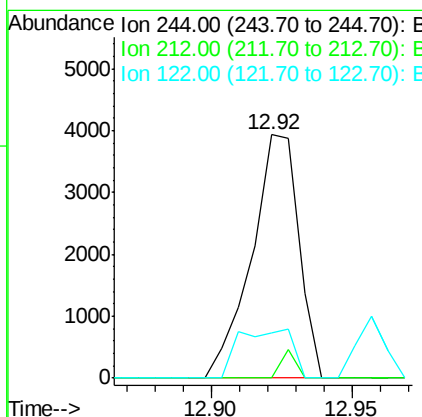
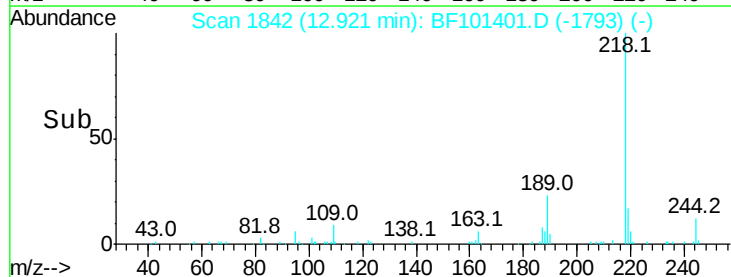
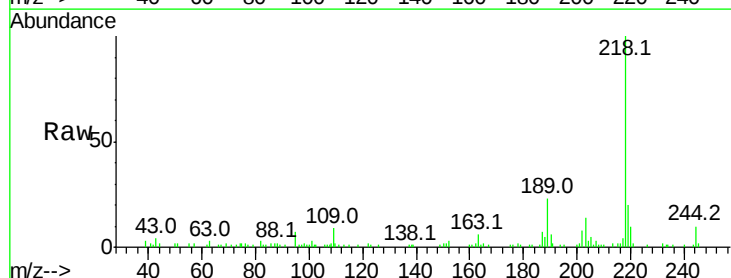
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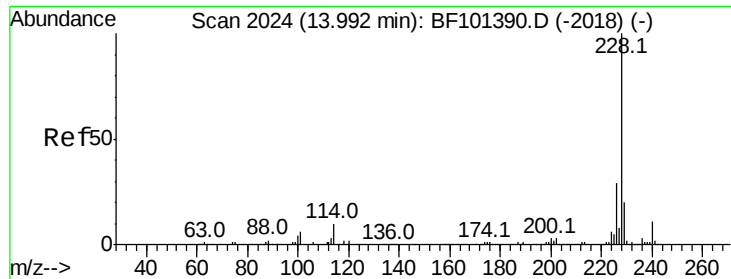
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#78
Terphenyl-d14
Concen: 0.299 ng
RT: 12.92 min Scan# 1842
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion:244 Resp: 4573
Ion Ratio Lower Upper
244 100
212 0.0 5.4 8.0#
122 18.6 11.0 16.4#





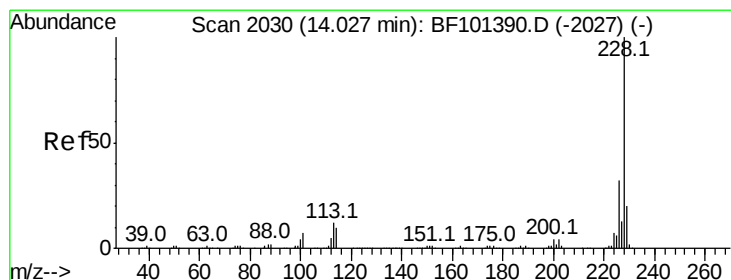
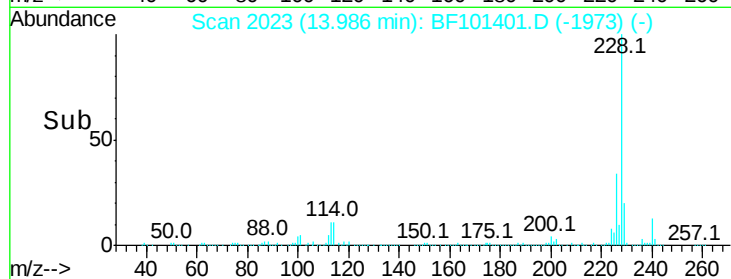
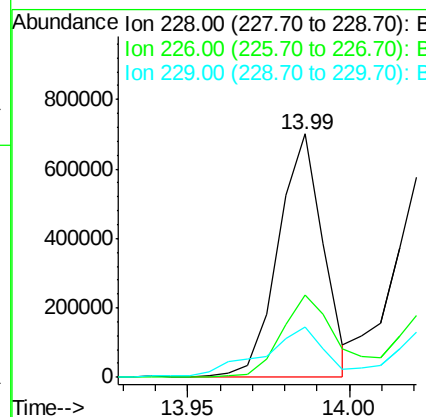
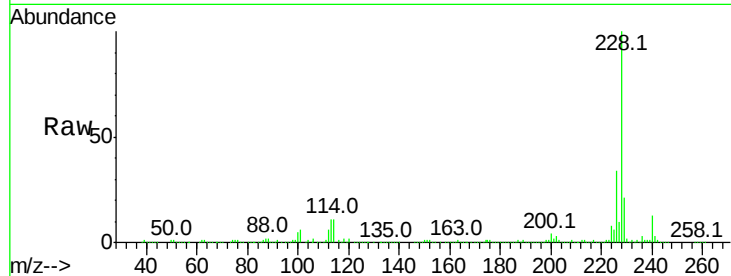
#80
Benzo(a)anthracene
Concen: 27.865 ng m
RT: 13.99 min Scan# 2023
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.8	22.6	33.8
229	20.7	15.8	23.6

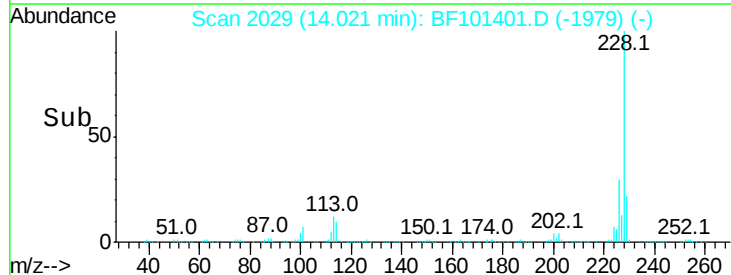
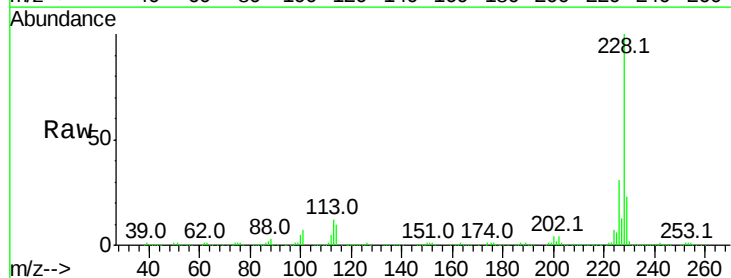
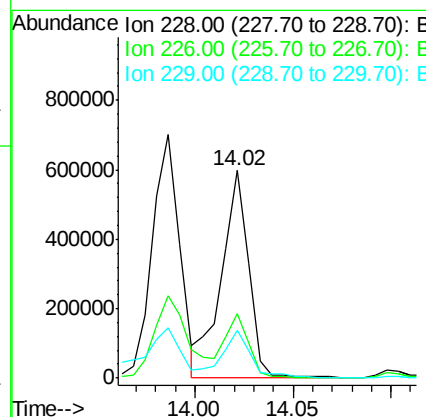
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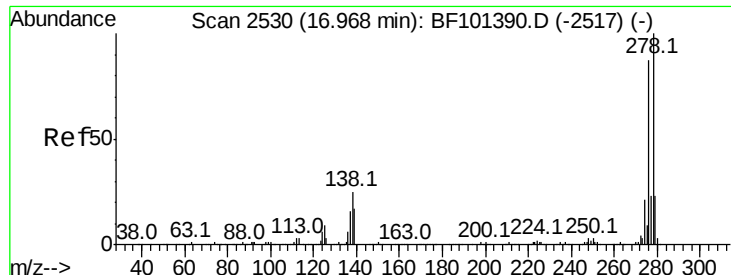
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#82
Chrysene
Concen: 24.995 ng m
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.6
229	23.0	16.2	24.4





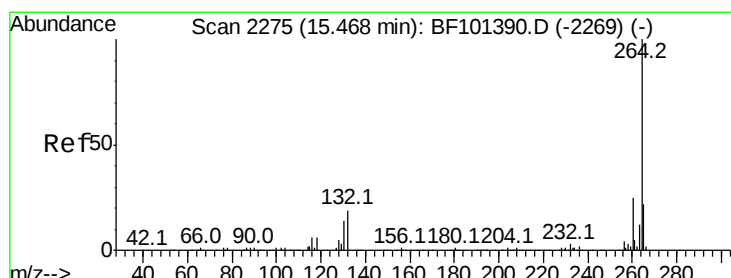
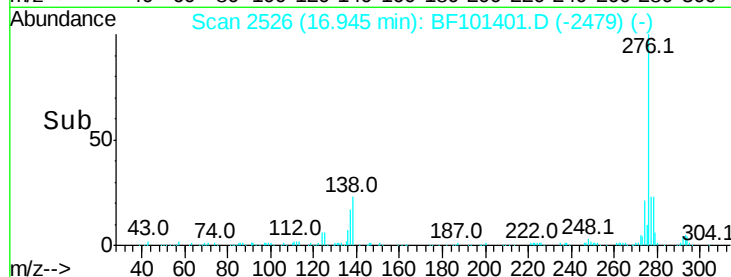
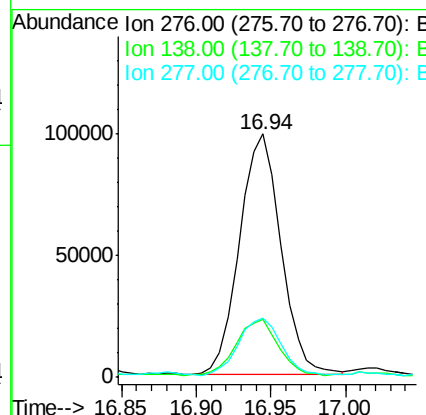
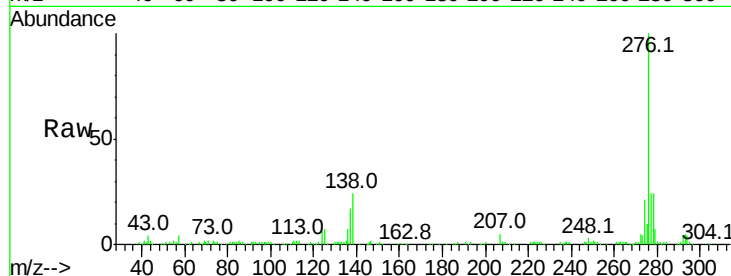
#85
Indeno(1,2,3-cd)pyrene
Concen: 9.333 ng
RT: 16.94 min Scan# 2526
Delta R.T. -0.02 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.0	25.0	37.6#
277	23.9	20.1	30.1

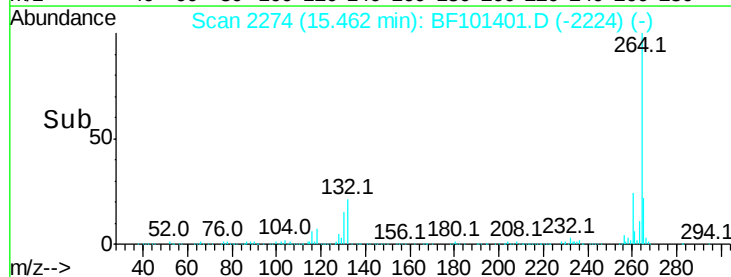
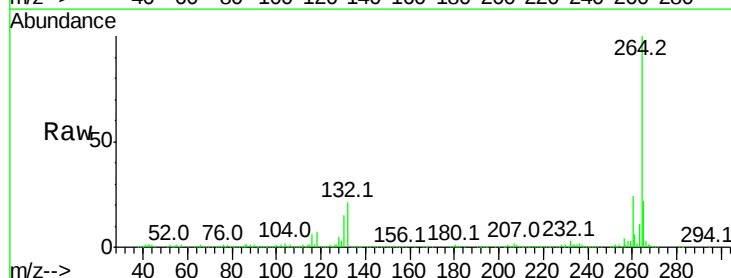
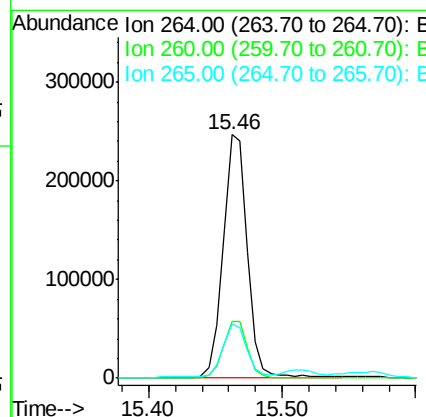
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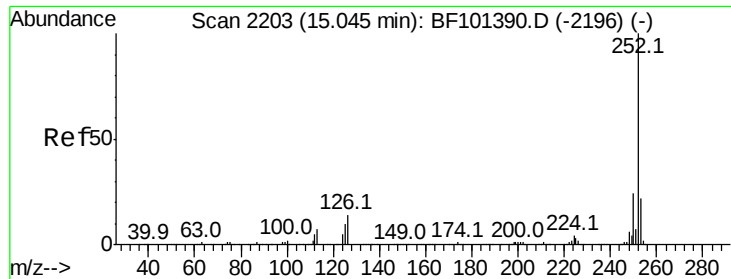
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.3	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 26.365 ng m

RT: 15.04 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Instrument :

BNA_F

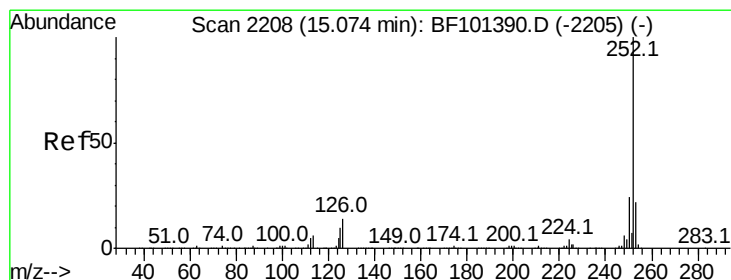
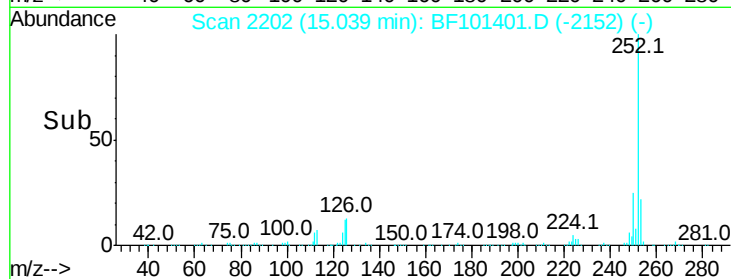
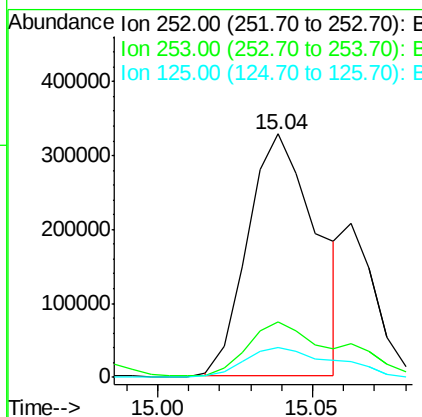
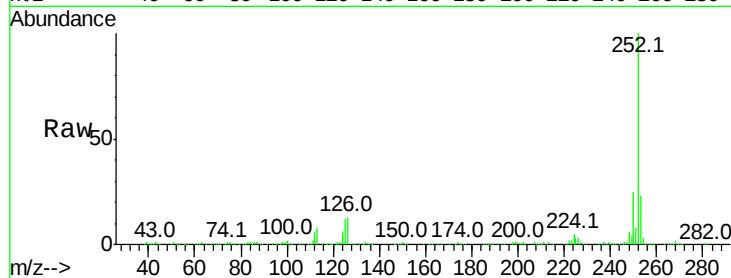
ClientSampleId :

WC-4539-02

Tot Ion:	252	Resp:	507405
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.0	25.6
125	12.0	9.0	13.6

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#88

Benzo(k)fluoranthene

Concen: 8.099 ng m

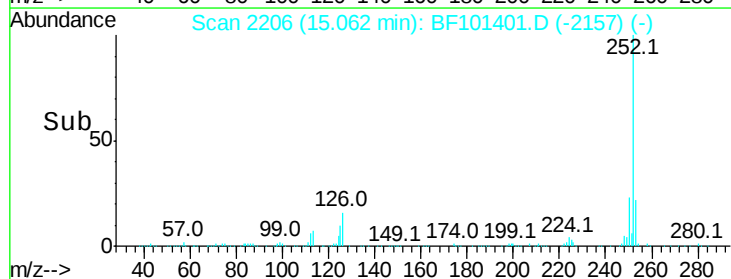
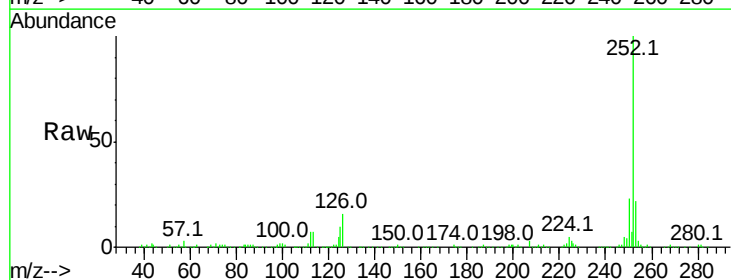
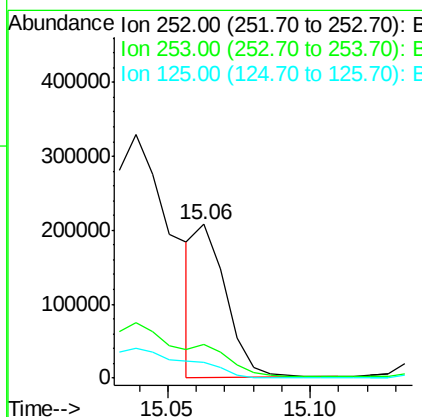
RT: 15.06 min Scan# 2206

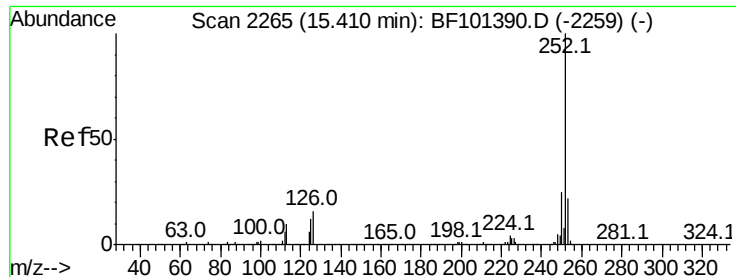
Delta R.T. -0.01 min

Lab File: BF101401.D

Acq: 14 Dec 2017 18:56

Tgt Ion:	252	Resp:	151555
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.9	26.9
125	10.5	10.2	15.2





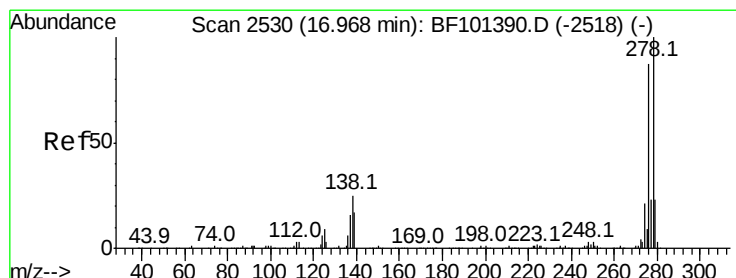
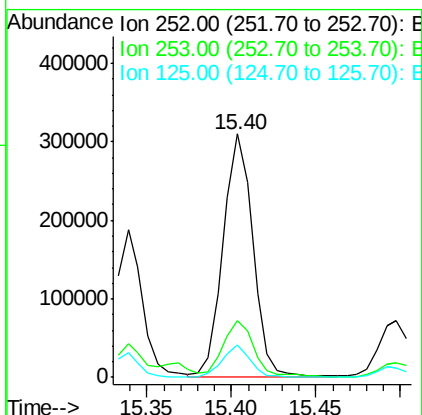
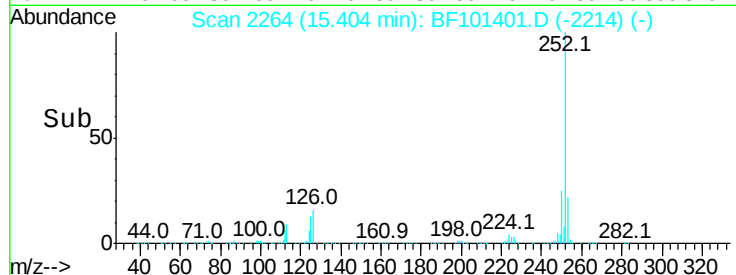
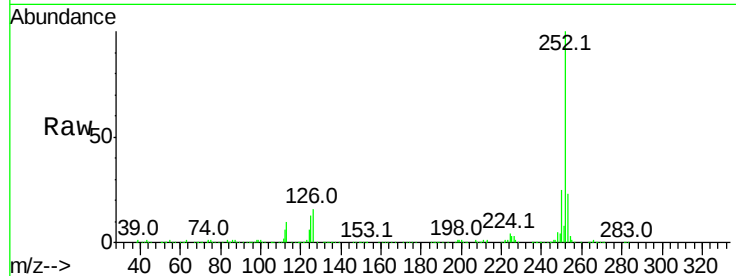
#89
Benzo(a)pyrene
Concen: 21.347 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Instrument :
BNA_F
ClientSampleId :
WC-4539-02

Tot Ion:	252	Resp:	378721
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.1	25.7
125	13.1	9.8	14.6

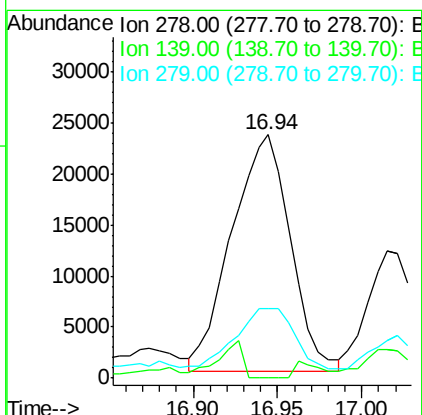
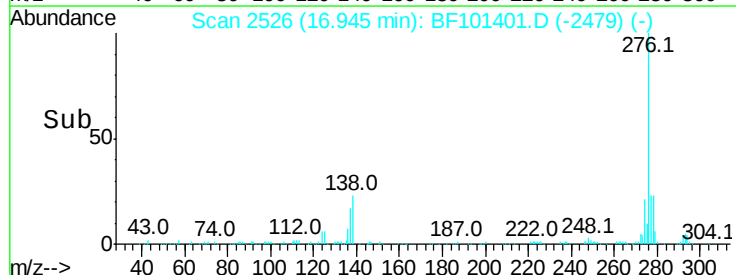
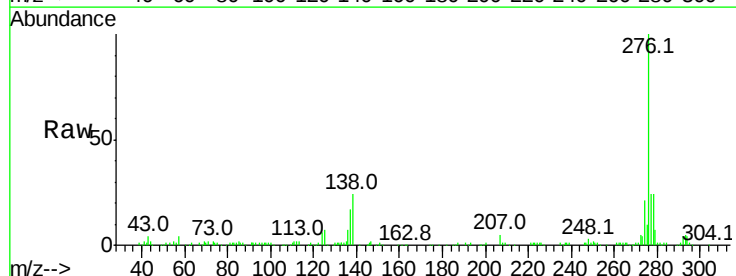
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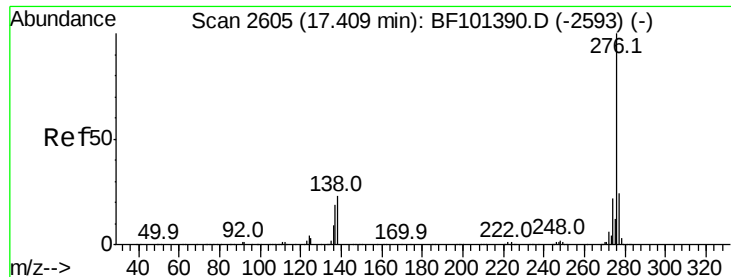
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#90
Dibenzo(a,h)anthracene
Concen: 3.688 ng m
RT: 16.94 min Scan# 2526
Delta R.T. -0.02 min
Lab File: BF101401.D
Acq: 14 Dec 2017 18:56

Tgt Ion:	278	Resp:	56175
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	28.6	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 11.147 ng
 RT: 17.39 min Scan# 2602
 Delta R.T. -0.02 min
 Lab File: BF101401.D
 Acq: 14 Dec 2017 18:56

Instrument :
 BNA_F
 ClientSampleId :
 WC-4539-02

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.6	17.9	26.9
138	23.4	21.8	32.8

Manual Integrations
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