

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032818\
 Data File : BF104012.D
 Acq On : 28 Mar 2018 16:18
 Operator : JU/SJ
 Sample : J2048-05 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032318

Manual Integrations
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Sohil
 3/29/2018 5:36:15 PM

Quant Time: Mar 28 17:10:54 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 28 13:41:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	141178	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	557233	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	263500	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	431157	20.00	ng	0.00
75) Chrysene-d12	14.16	240	284577	20.00	ng	0.00
86) Perylene-d12	15.72	264	283022	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	349913	39.53	ng	0.00
7) Phenol-d6	6.59	99	468297	43.00	ng	-0.01
23) Nitrobenzene-d5	7.53	82	274929	30.17	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	114056	38.87	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	509372	30.48	ng	0.00
78) Terphenyl-d14	13.08	244	380420	30.87	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	1830720	67.250	ng	99
37) 2-Methylnaphthalene	8.96	142	564629	31.488	ng	98
45) 1,1'-Biphenyl	9.42	154	80516	3.560	ng	96
48) Acenaphthylene	9.86	152	91291	3.378	ng	97
57) Fluorene	10.55	166	96649	5.132	ng	98
70) Phenanthrene	11.52	178	396366	16.980	ng	98
71) Anthracene	11.57	178	115403	4.733	ng	98
74) Fluoranthene	12.72	202	218899	8.822	ng	97
77) Pyrene	12.95	202	337349	16.491	ng	99
80) Benzo(a)anthracene	14.14	228	129525	7.274	ng	92
82) Chrysene	14.18	228	128422	7.363	ng	97
85) Indeno(1,2,3-cd)pyrene	17.30	276	42689	2.362	ng	93
87) Benzo(b)fluoranthene	15.26	252	100752m	5.849	ng	
88) Benzo(k)fluoranthene	15.29	252	33802m	2.083	ng	
89) Benzo(a)pyrene	15.66	252	111675	6.996	ng	97
91) Benzo(g,h,i)perylene	17.79	276	48386	3.273	ng	# 94

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

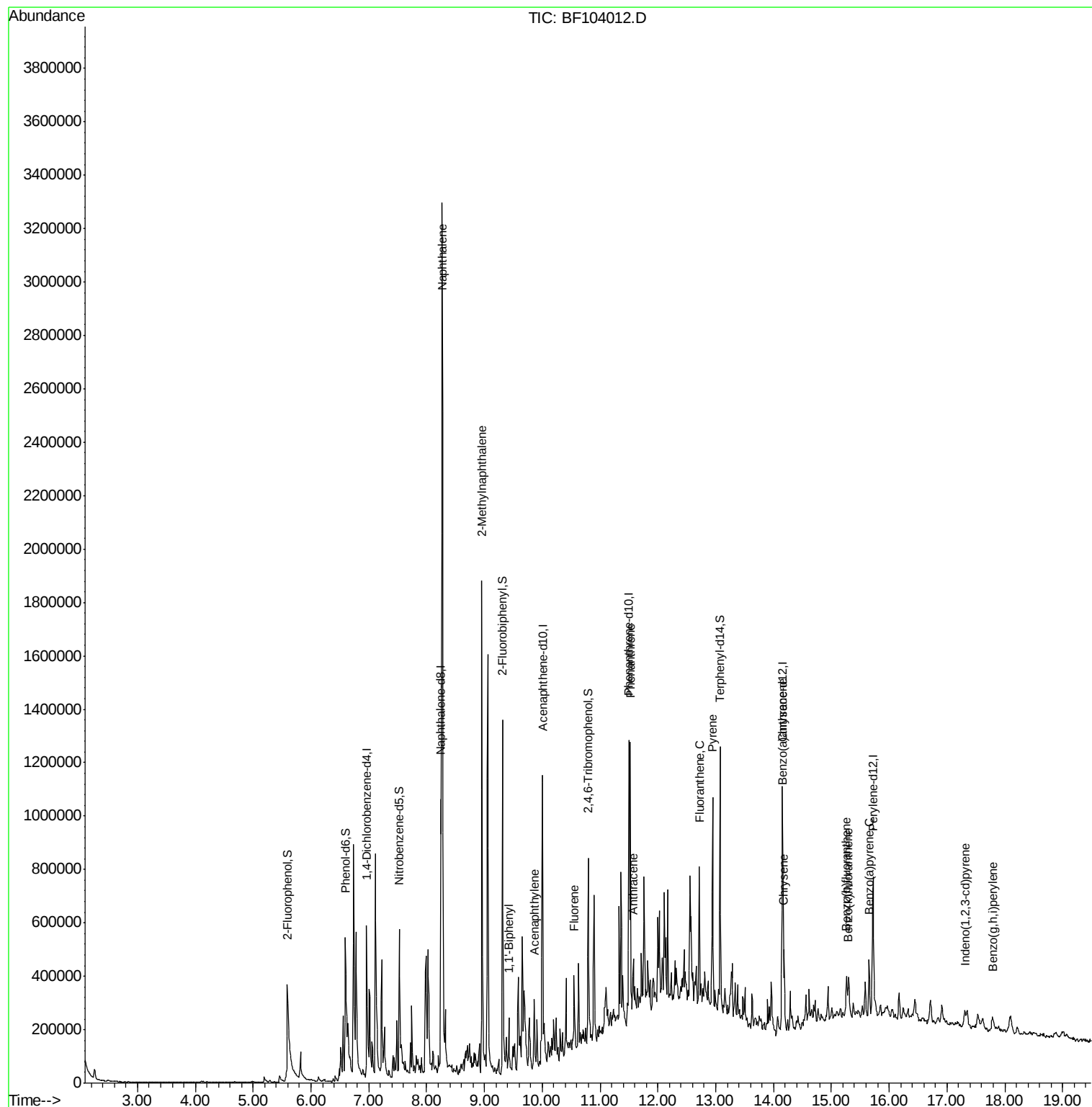
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#1

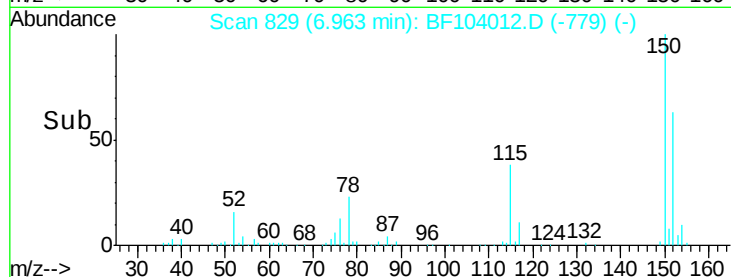
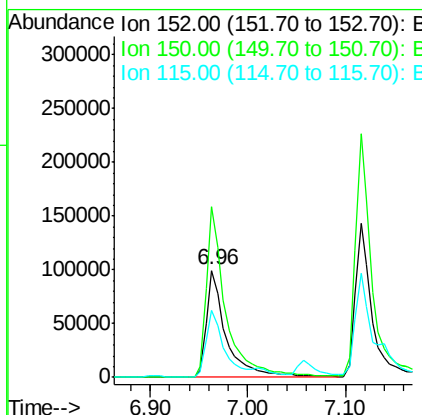
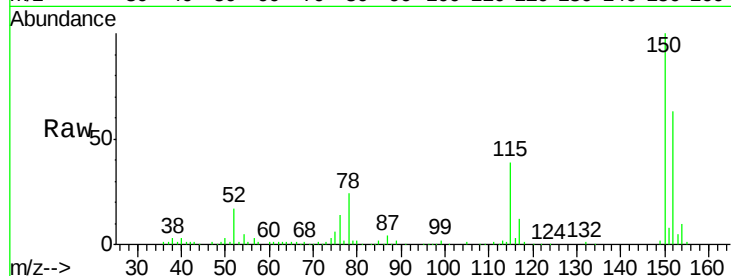
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 829
Delta R.T. -0.01 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Instrument :
BNA_F
ClientSampleId :
DUP-032318

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.6	124.6	186.8
115	62.3	50.1	75.1

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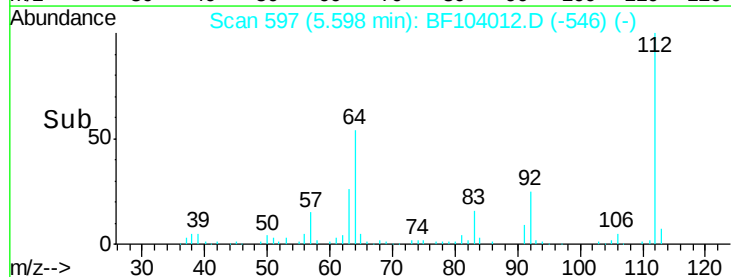
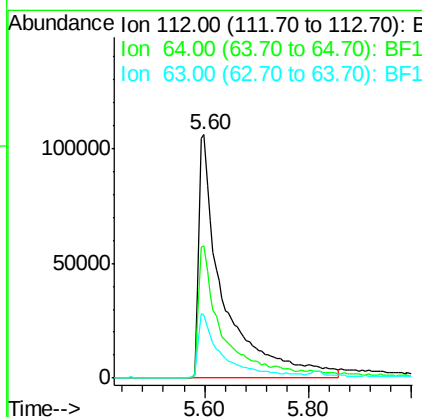
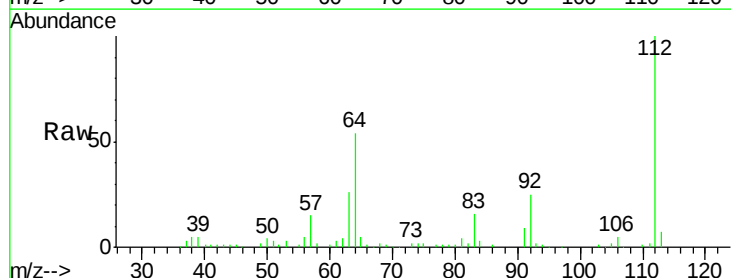
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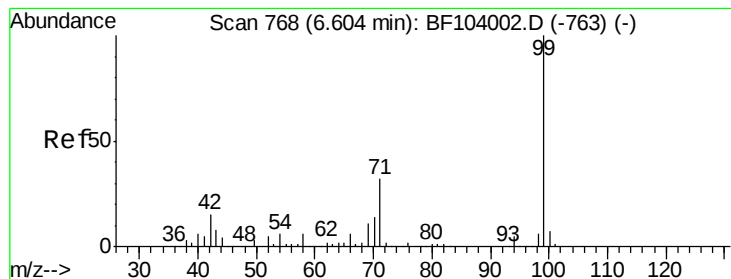


#5

2-Fluorophenol
Concen: 39.526 ng
RT: 5.60 min Scan# 597
Delta R.T. -0.00 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.3	47.9	71.9
63	26.1	23.7	35.5





#7

Phenol-d6

Concen: 42.997 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF104012.D

Acq: 28 Mar 2018 16:18

Instrument :

BNA_F

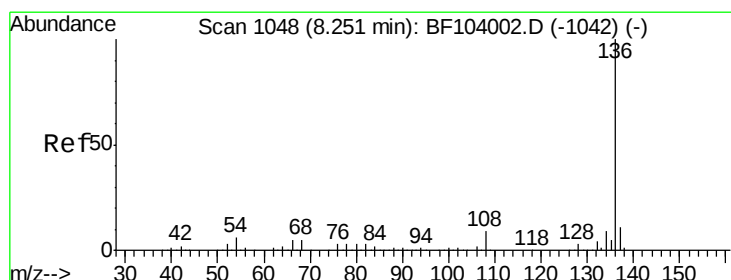
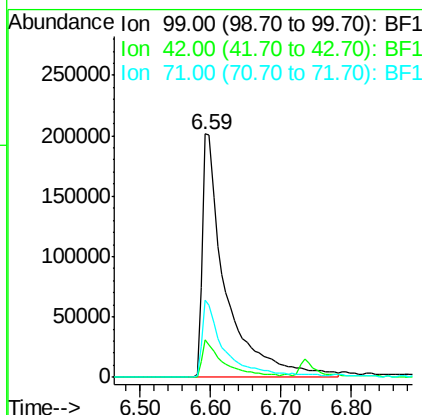
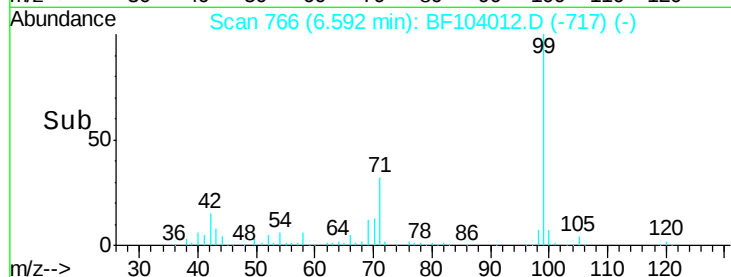
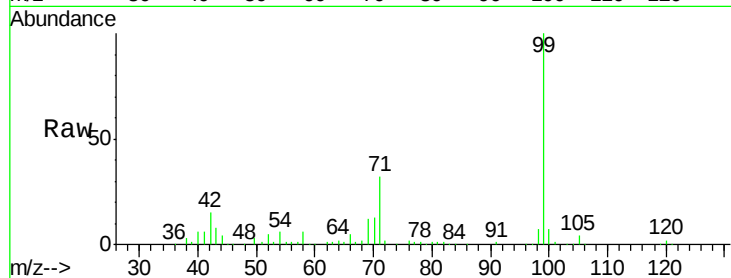
ClientSampleId :

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Tot Ion:	99	Resp:	468297
Ion Ratio	Lower	Upper	
99	100		
42	15.3	14.5	21.7
71	31.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

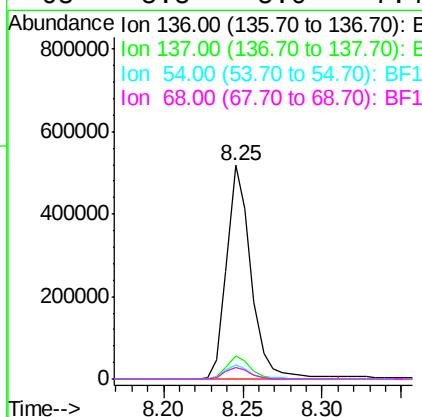
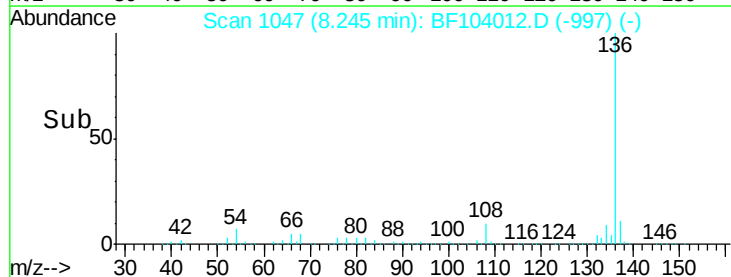
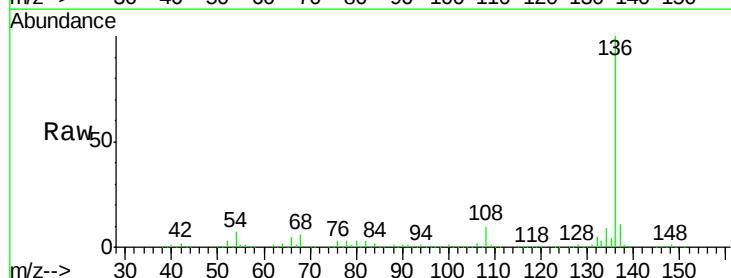
RT: 8.25 min Scan# 1047

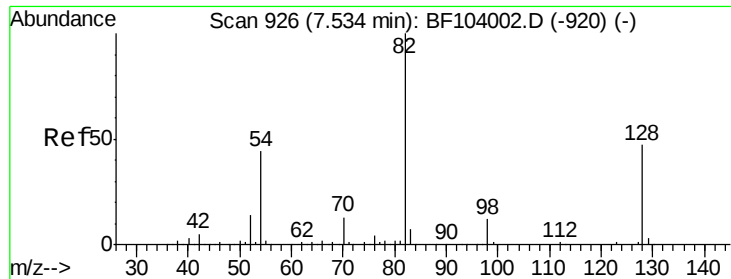
Delta R.T. -0.01 min

Lab File: BF104012.D

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Tgt Ion:	136	Resp:	557233
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	6.8	6.6	9.8
68	5.5	5.0	7.4





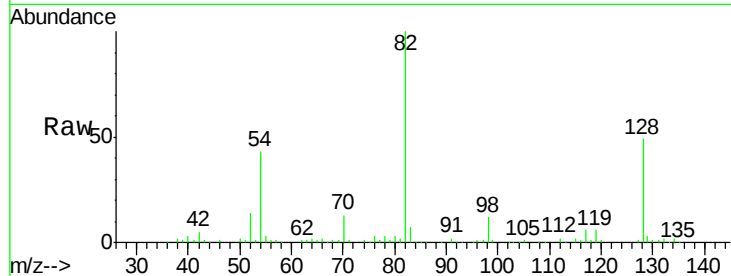
#23
 Nitrobenzene-d5
 Concen: 30.173 ng
 RT: 7.53 min Scan# 925
 Delta R.T. -0.01 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032318

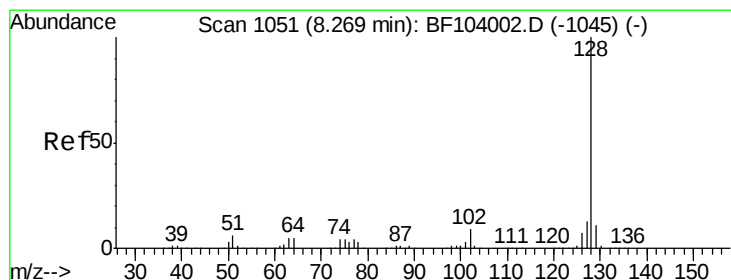
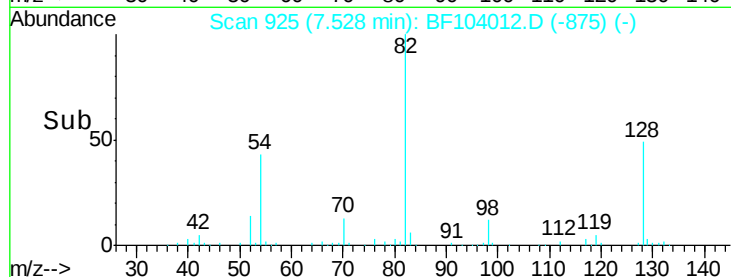
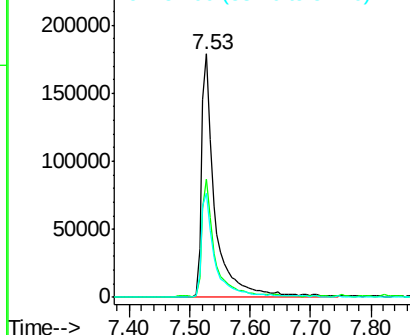
Tot Ion	Ratio	Resp	Lower	Upper
82	100	274929		
128	48.7		36.1	54.1
54	42.7		41.4	62.2

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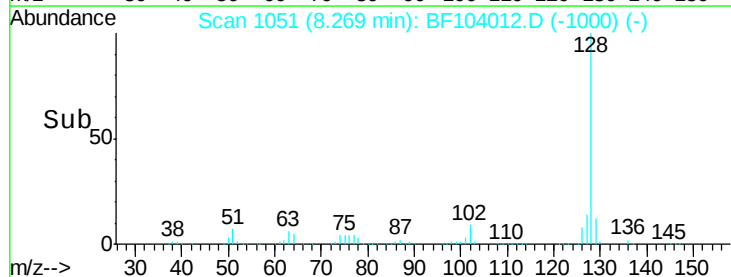
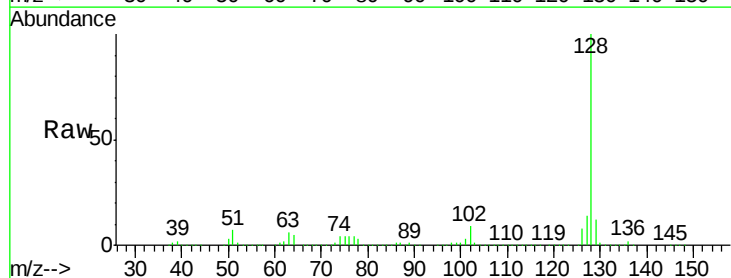
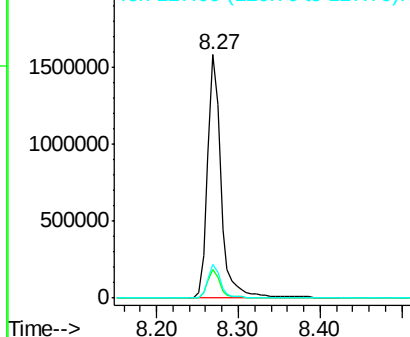
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

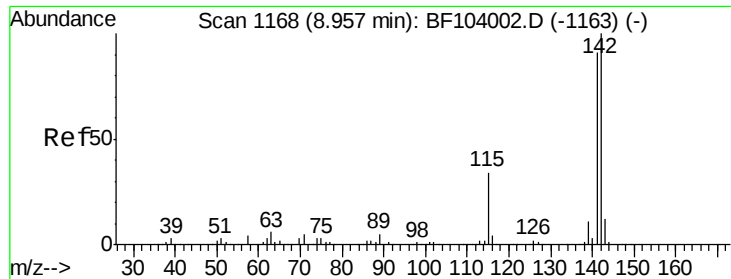


#31
 Naphthalene
 Concen: 67.250 ng
 RT: 8.27 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	1830720		
129	11.7		8.8	13.2
127	13.8		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





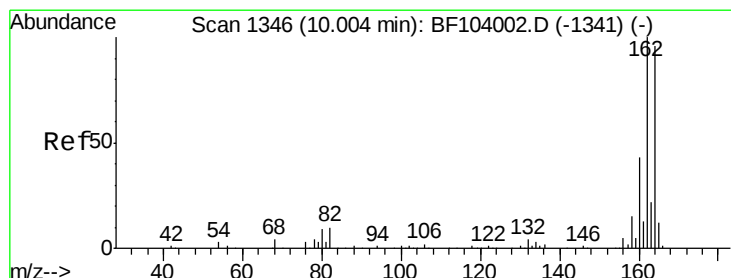
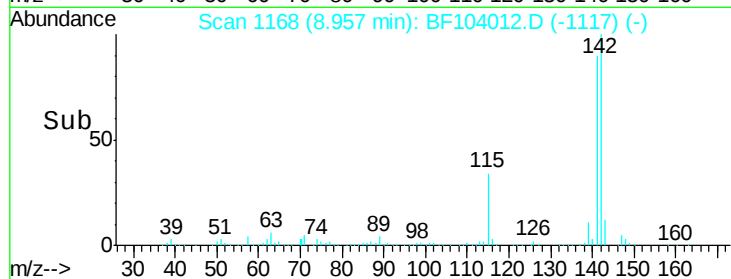
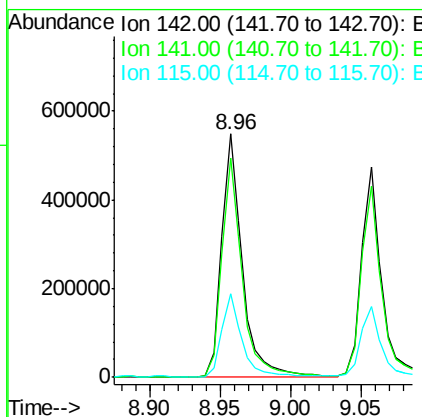
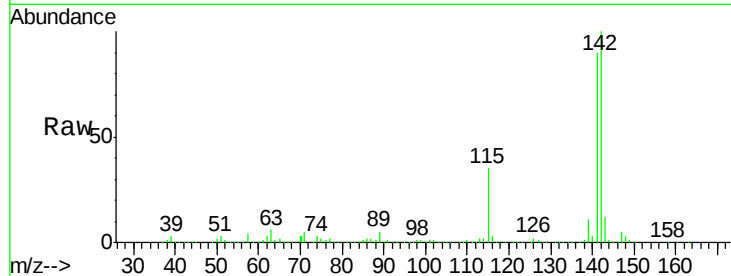
#37
 2-Methylnaphthalene
 Concen: 31.488 ng
 RT: 8.96 min Scan# 1168
 Delta R.T. -0.00 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Instrument :
 BNA_F
 ClientSampled :
 DUP-032318

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	70.8	106.2
115	34.5	26.1	39.1

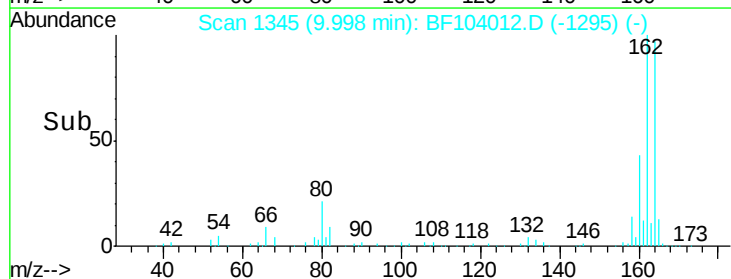
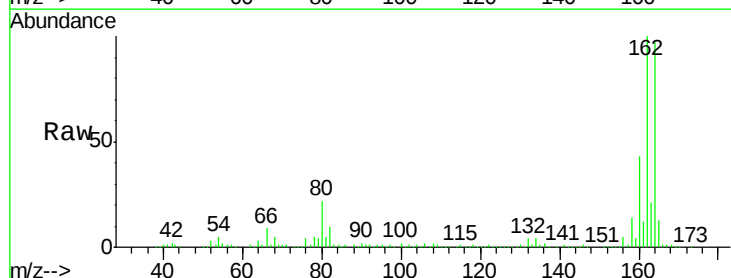
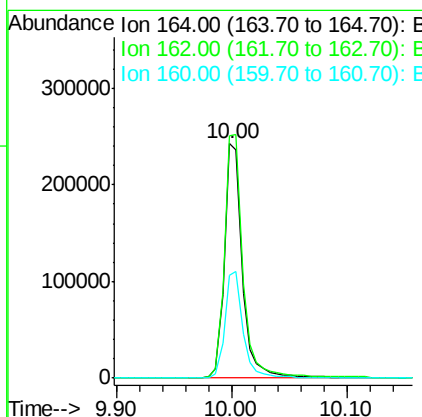
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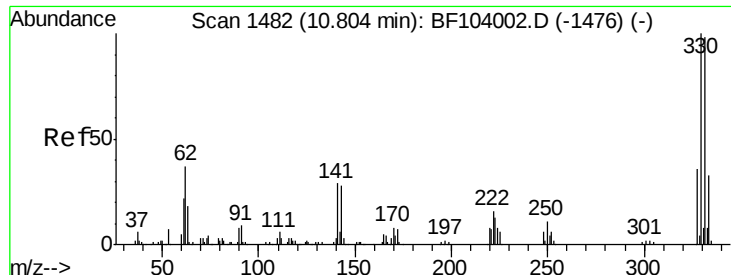
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.00 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	86.1	129.1
160	44.1	38.3	57.5





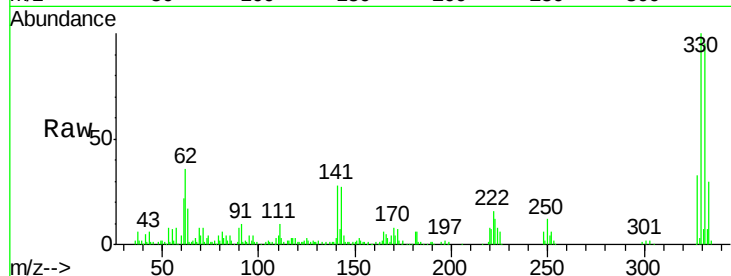
#41
 2,4,6-Tribromophenol
 Concen: 38.873 ng
 RT: 10.80 min Scan# 1481
 Delta R.T. -0.01 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032318

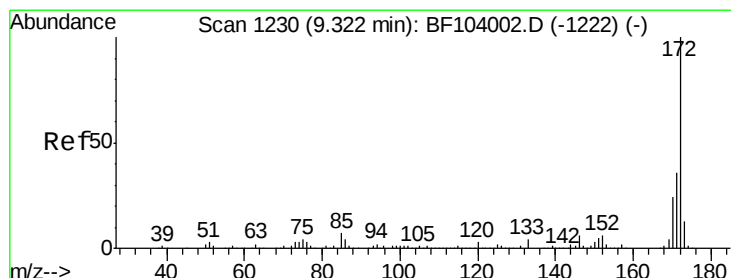
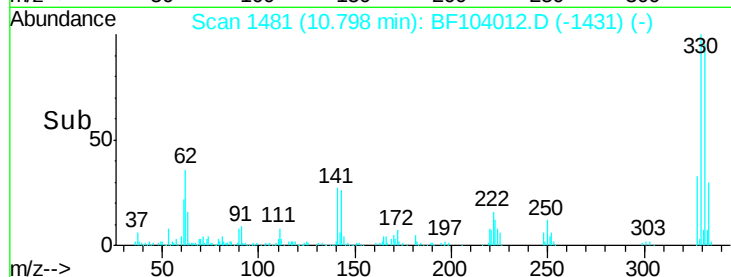
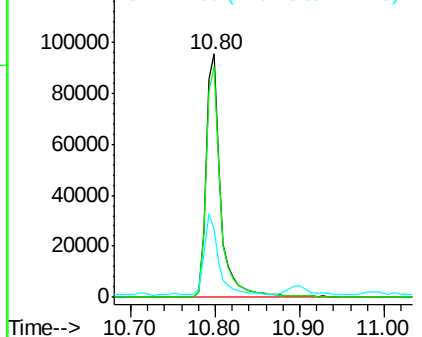
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.0	115.6
141	32.6	29.9	44.9

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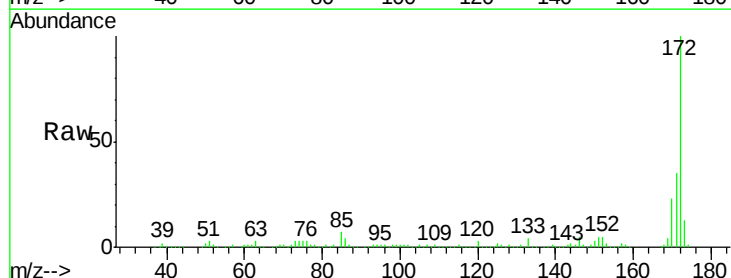


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

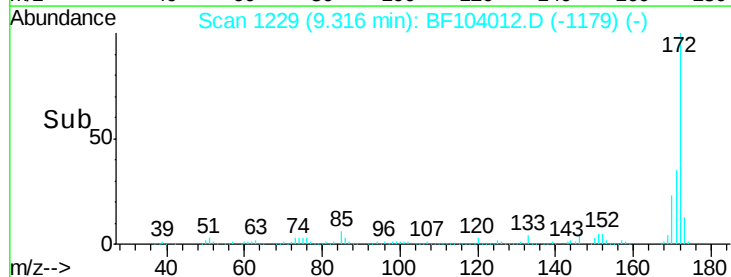
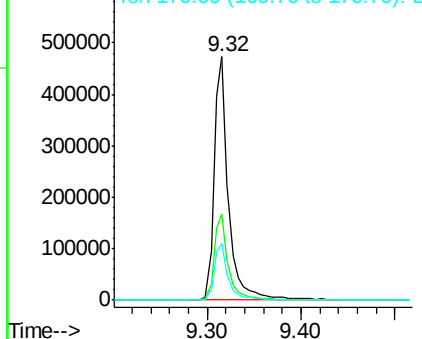


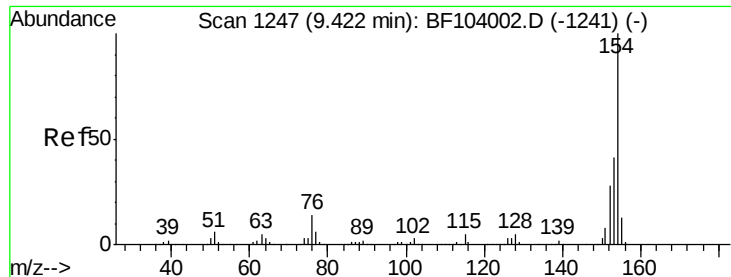
#44
 2-Fluorobiphenyl
 Concen: 30.483 ng
 RT: 9.32 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.7	44.5
170	23.2	19.6	29.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





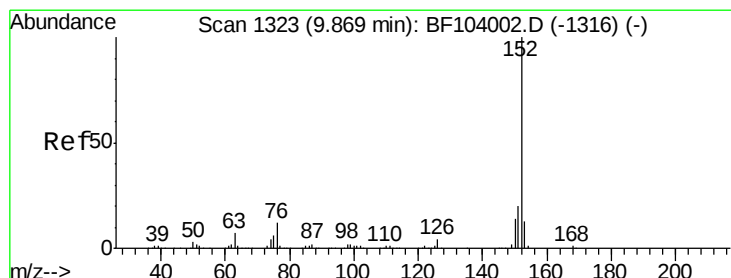
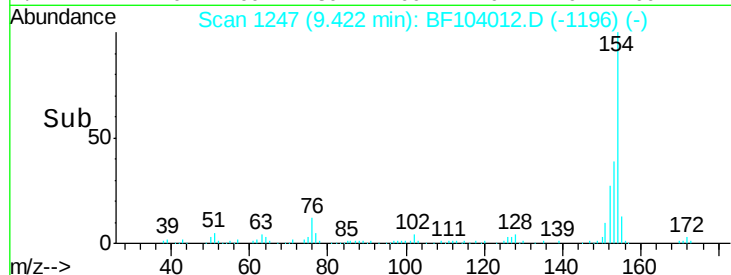
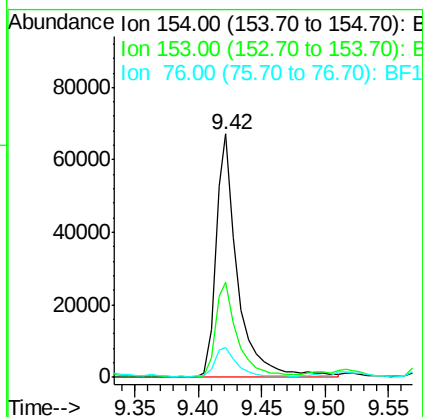
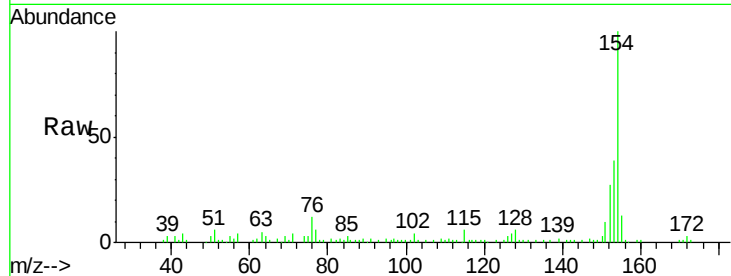
#45
 1,1'-Biphenyl
 Concen: 3.560 ng
 RT: 9.42 min Scan# 1247
 Delta R.T. -0.00 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032318

Tot Ion:	154	Resp:	80516
Ion Ratio	Lower	Upper	
154	100		
153	39.1	21.3	61.3
76	12.0	0.0	34.0

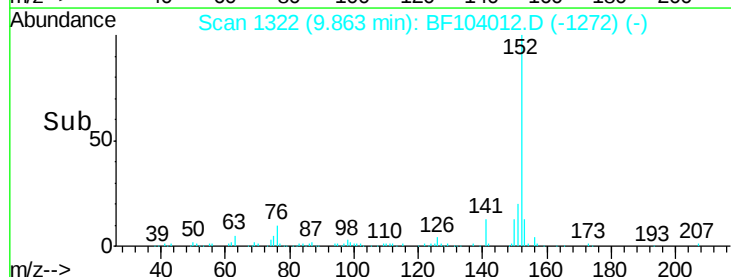
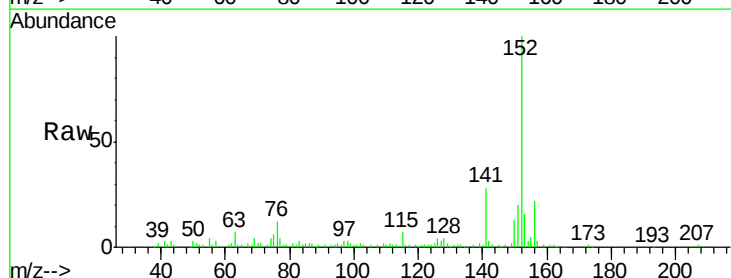
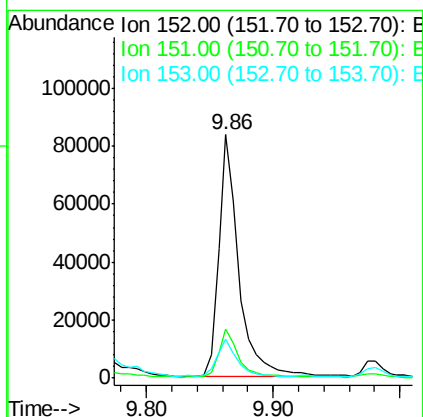
Manual Integrations
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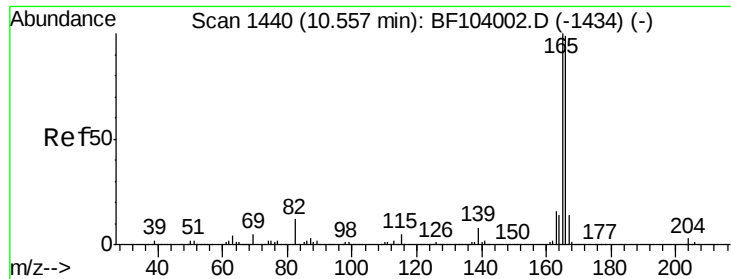
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#48
 Acenaphthylene
 Concen: 3.378 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.01 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Tgt Ion:	152	Resp:	91291
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	16.0	10.7	16.1





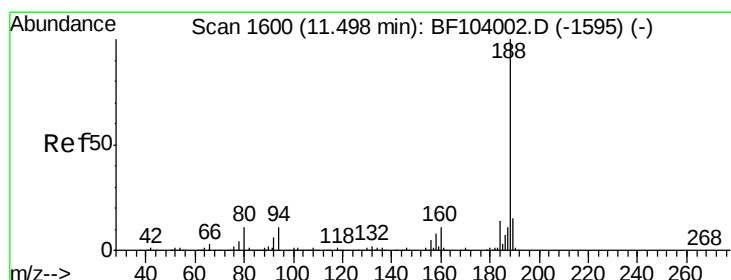
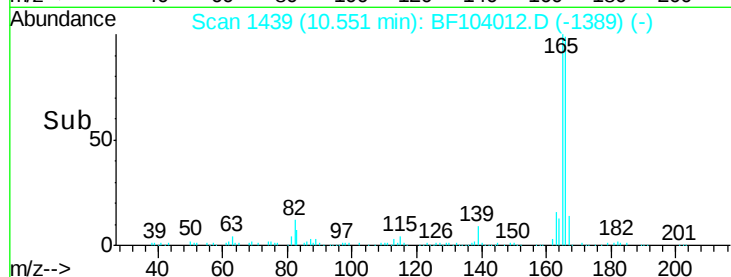
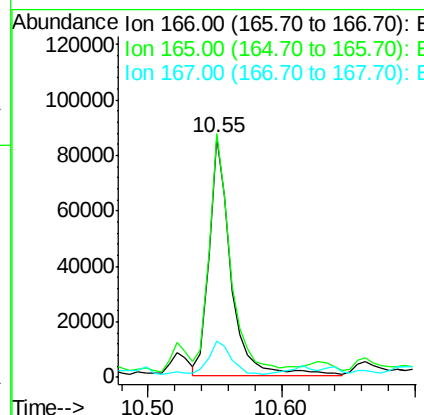
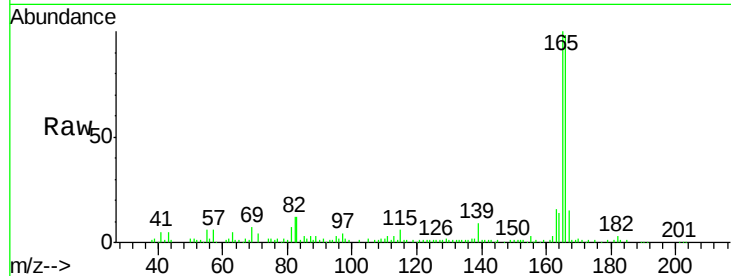
#57
Fluorene
 Concen: 5.132 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Instrument :
 BNA_F
 ClientSampleId :
 DUP-032318

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	101.6	79.8	119.8	
167	15.1	10.6	16.0	

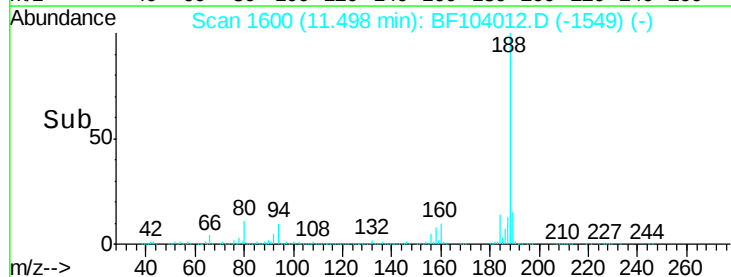
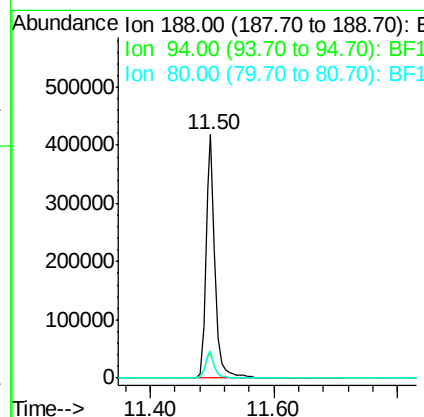
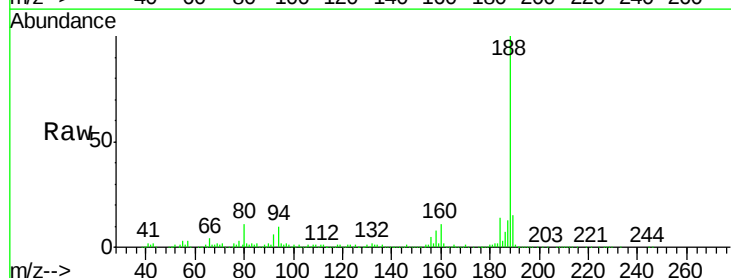
Manual Integrations
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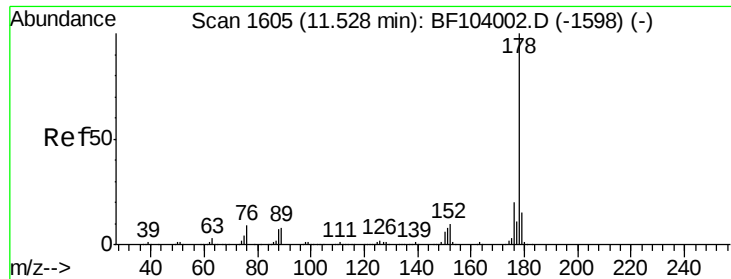
Sohil
 3/29/2018 5:36:15 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: BF104012.D
 Acq: 28 Mar 2018 16:18

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	10.1	8.5	12.7	
80	11.3	9.2	13.8	





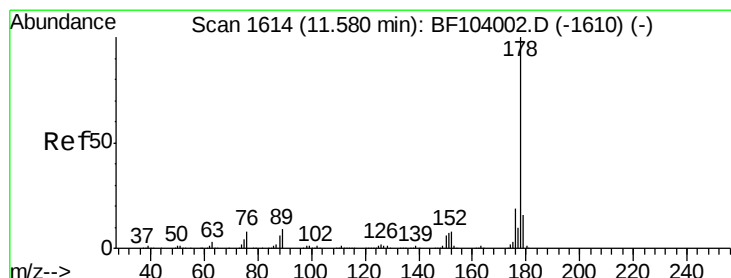
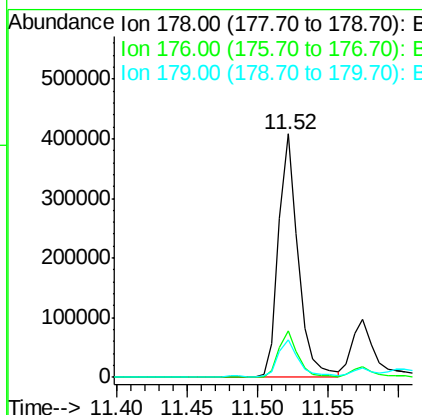
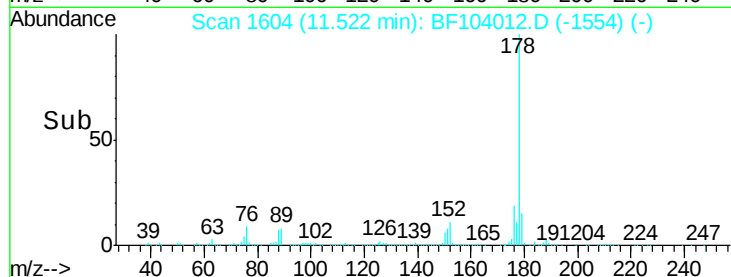
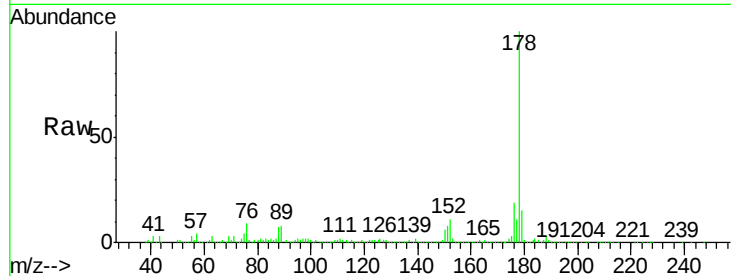
#70
Phenanthrene
Concen: 16.980 ng
RT: 11.52 min Scan# 1604
Delta R.T. -0.01 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Instrument :
BNA_F
ClientSampleId :
DUP-032318

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.3	13.0	19.6

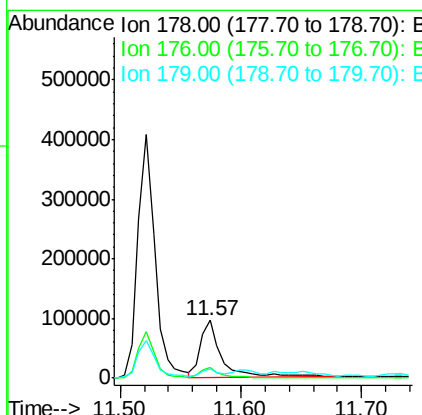
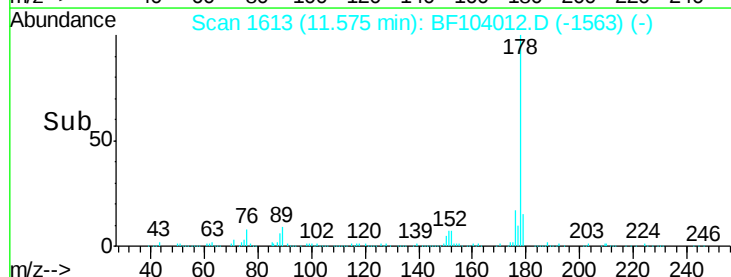
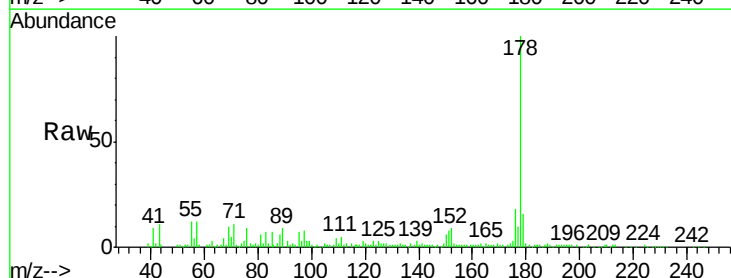
Manual Integrations
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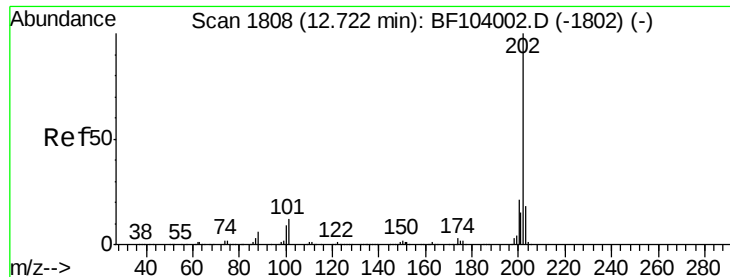
Sohil
3/29/2018 5:36:15 PM



#71
Anthracene
Concen: 4.733 ng
RT: 11.57 min Scan# 1613
Delta R.T. -0.01 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.6	15.4	23.2
179	16.1	12.6	19.0





#74

Fluoranthene

Concen: 8.822 ng

RT: 12.72 min Scan# 1807

Delta R.T. -0.01 min

Lab File: BF104012.D

Acq: 28 Mar 2018 16:18

Instrument :

BNA_F

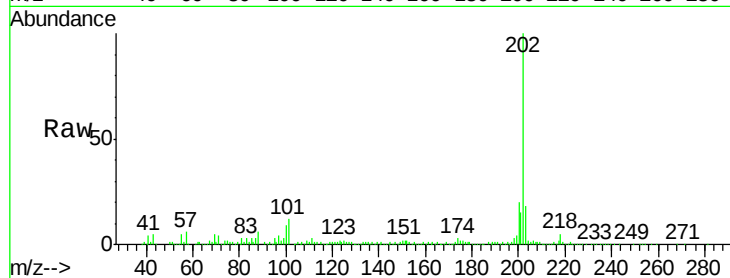
ClientSampleId :

DUP-032318

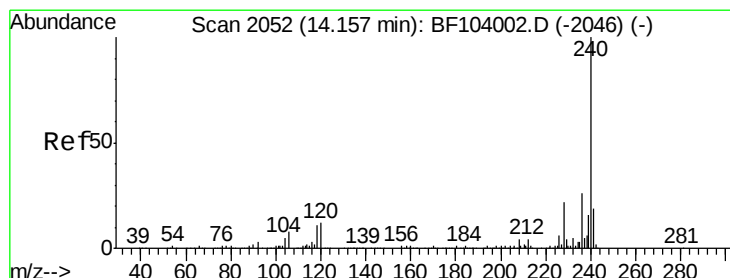
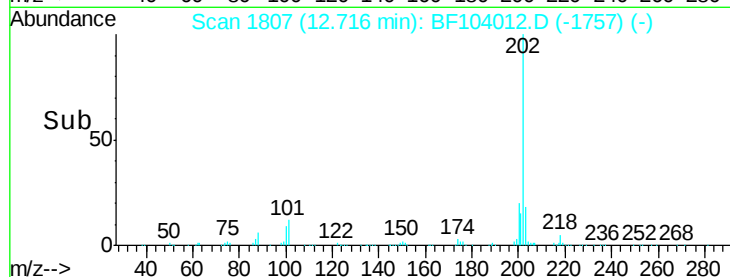
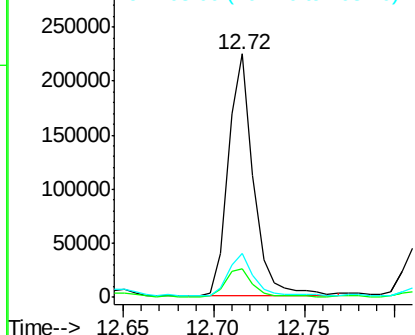
Tot Ion:	202	Resp:	218899
Ion Ratio		Lower	Upper
202	100		
101	11.9	0.0	34.1
203	18.3	0.0	38.1

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2052

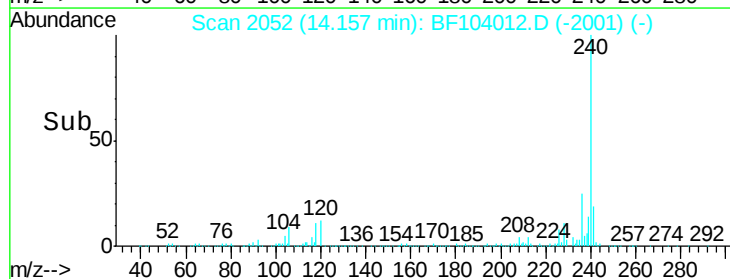
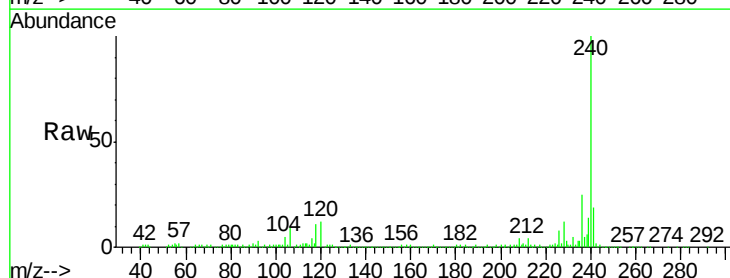
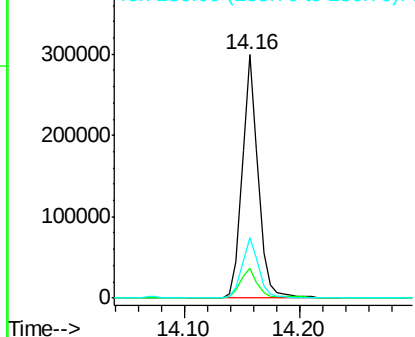
Delta R.T. -0.00 min

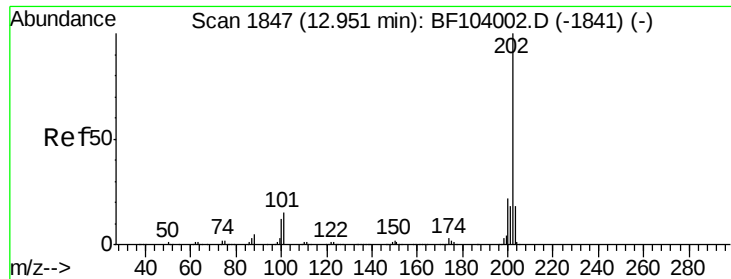
Lab File: BF104012.D

Acq: 28 Mar 2018 16:18

Tgt Ion:	240	Resp:	284577
Ion Ratio		Lower	Upper
240	100		
120	12.5	9.5	14.3
236	25.1	20.7	31.1

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

Pvrene

Concen: 16.491 ng

RT: 12.95 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF104012.D

Acq: 28 Mar 2018 16:18

Instrument :

BNA_F

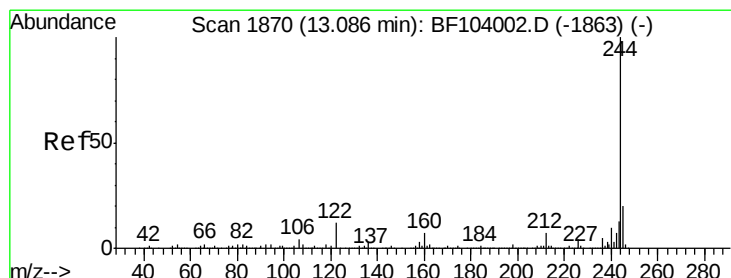
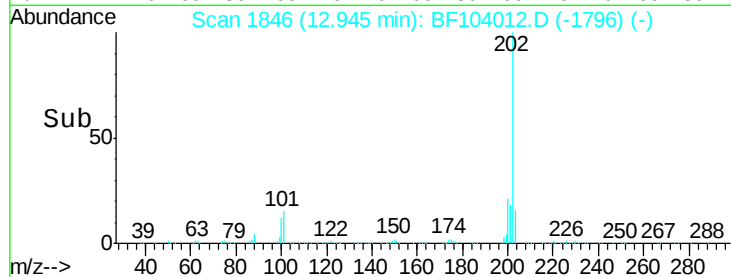
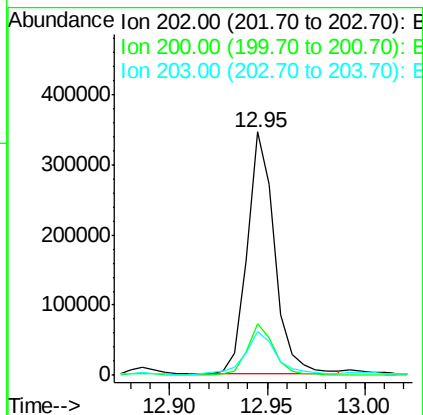
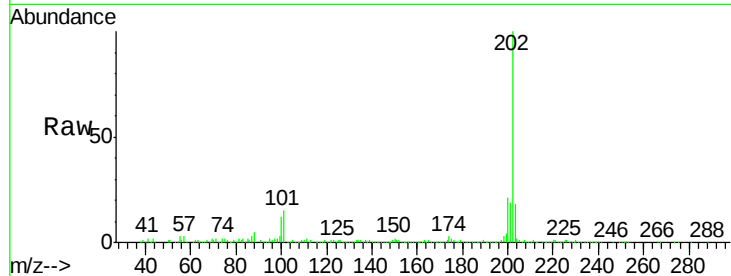
ClientSampleId :

DUP-032318

Tot Ion:	202	Resp:	337349
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.4	26.2
203	18.2	14.3	21.5

Manual Integrations
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#78

Terphenyl-d14

Concen: 30.866 ng

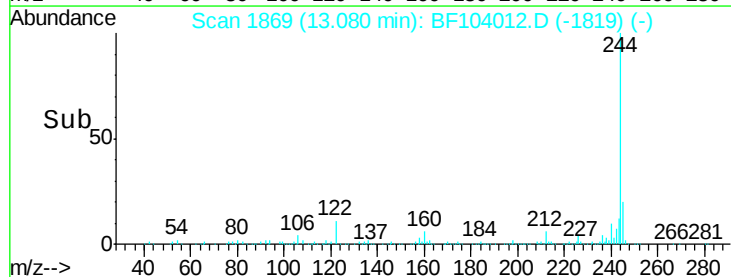
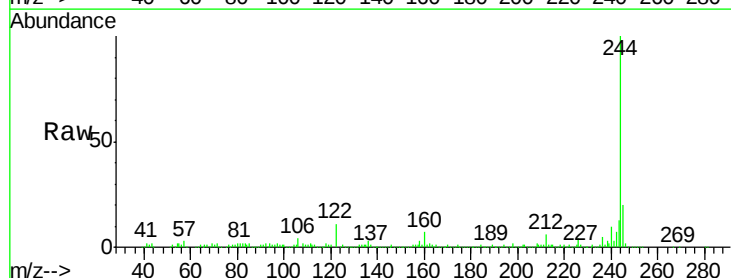
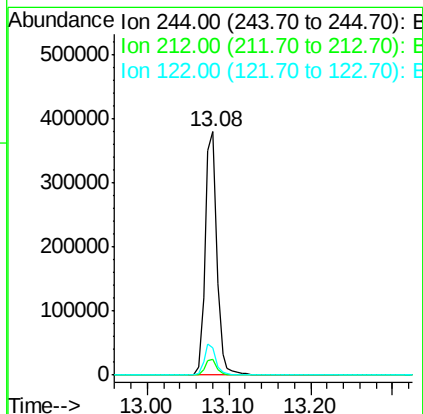
RT: 13.08 min Scan# 1869

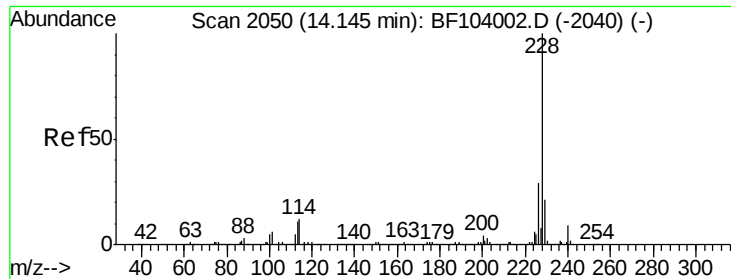
Delta R.T. -0.01 min

Lab File: BF104012.D

Acq: 28 Mar 2018 16:18

Tgt Ion:	244	Resp:	380420
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	11.1	11.0	16.4





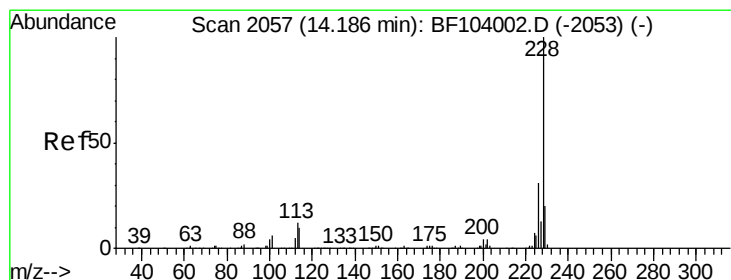
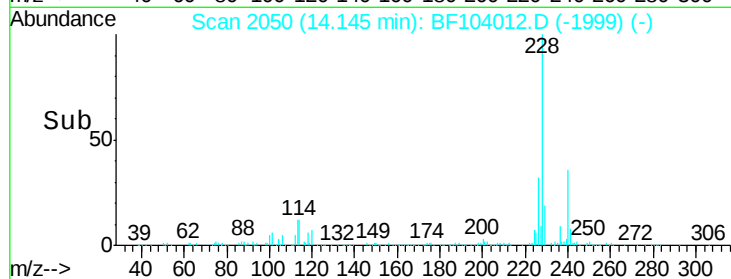
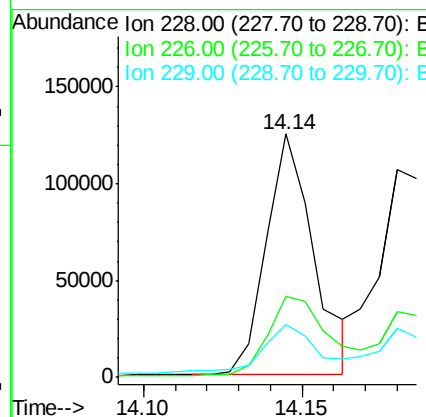
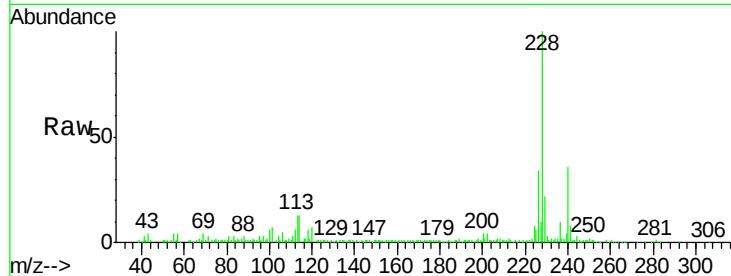
#80
Benzo(a)anthracene
Concen: 7.274 ng
RT: 14.14 min Scan# 2050
Delta R.T. -0.00 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Instrument :
BNA_F
ClientSampleId :
DUP-032318

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.5	22.6	33.8
229	21.9	15.8	23.6

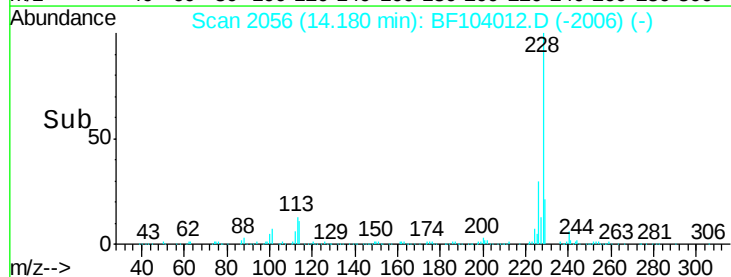
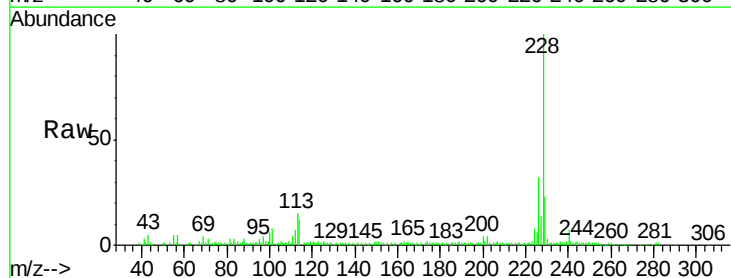
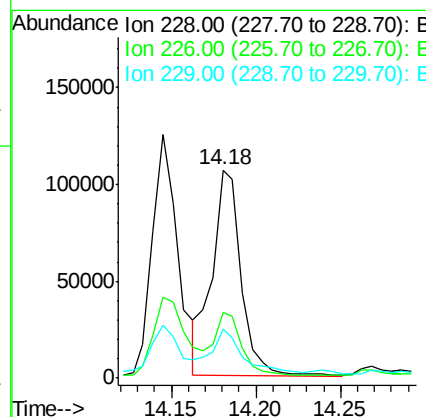
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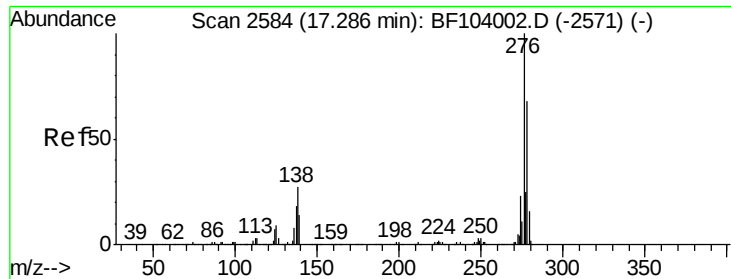
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#82
Chrysene
Concen: 7.363 ng
RT: 14.18 min Scan# 2056
Delta R.T. -0.01 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	25.0	37.6
229	23.4	16.2	24.4





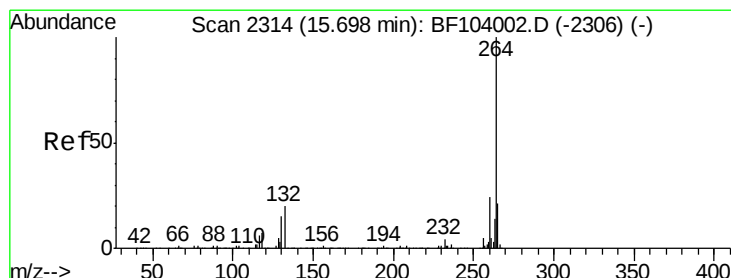
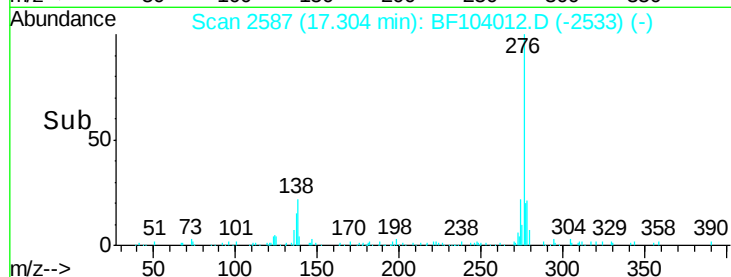
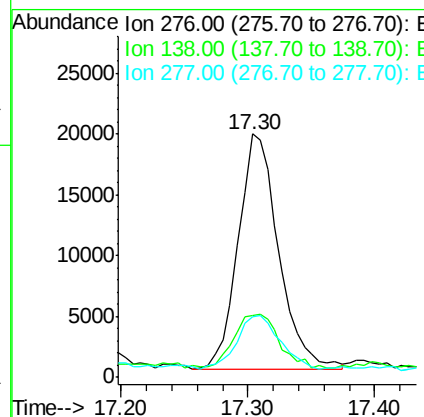
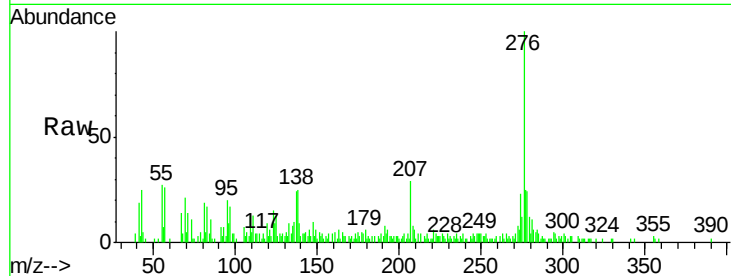
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.362 ng
RT: 17.30 min Scan# 2587
Delta R.T. 0.02 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Instrument :
BNA_F
ClientSampled :
DUP-032318

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.2	25.0	37.6
277	24.3	20.1	30.1

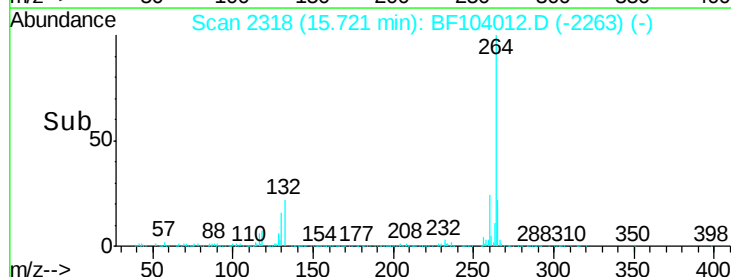
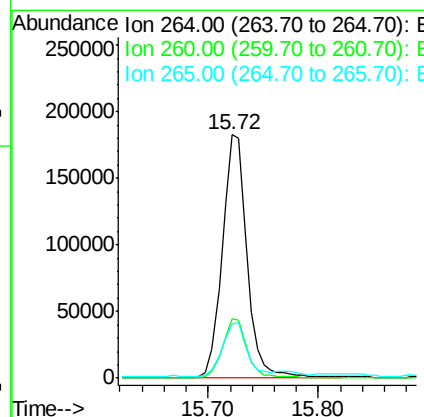
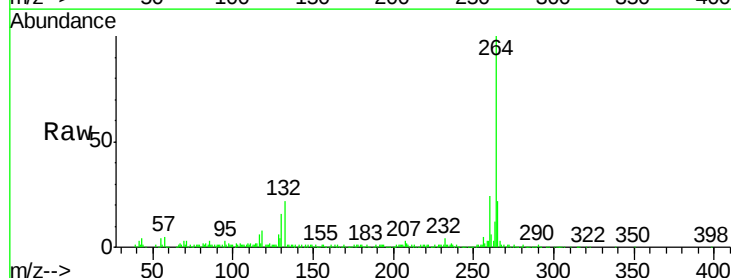
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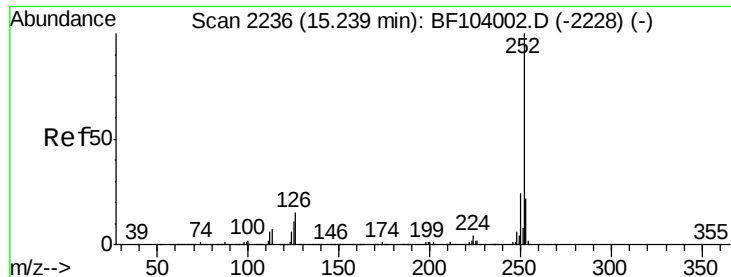
Sohil
3/29/2018 5:36:15 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2318
Delta R.T. 0.02 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.3	17.5	26.3





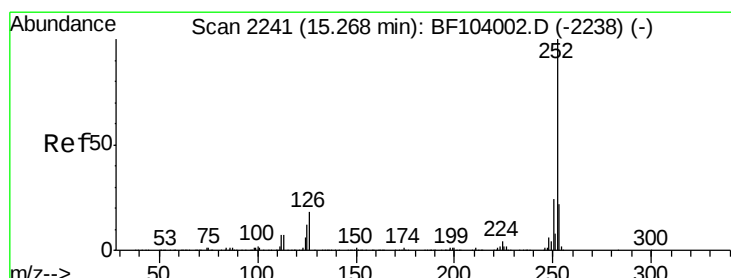
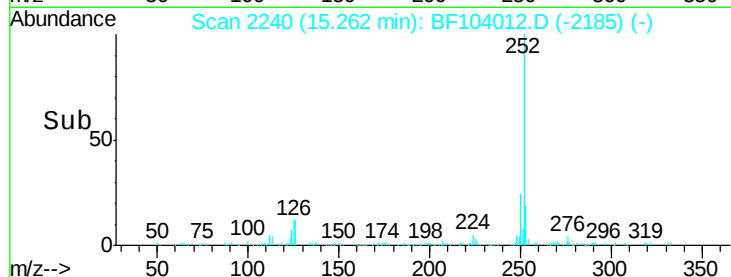
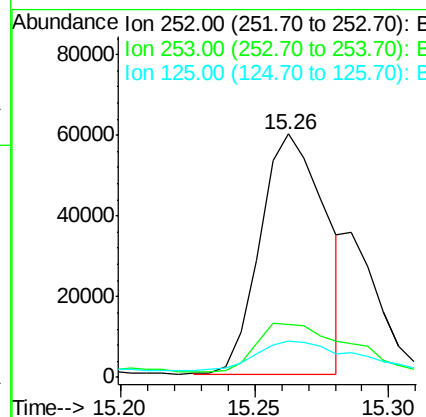
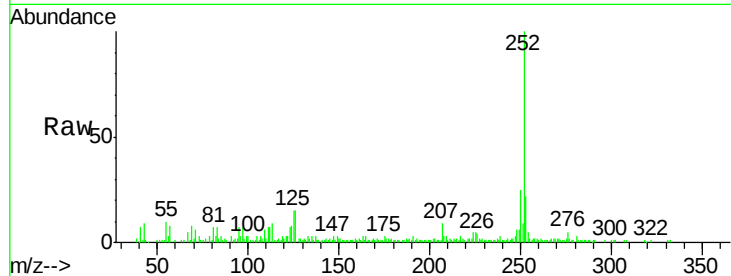
#87
Benzo(b)fluoranthene
Concen: 5.849 ng m
RT: 15.26 min Scan# 2240
Delta R.T. 0.02 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Instrument :
BNA_F
ClientSampleId :
DUP-032318

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.0	25.6
125	15.1	9.0	13.6

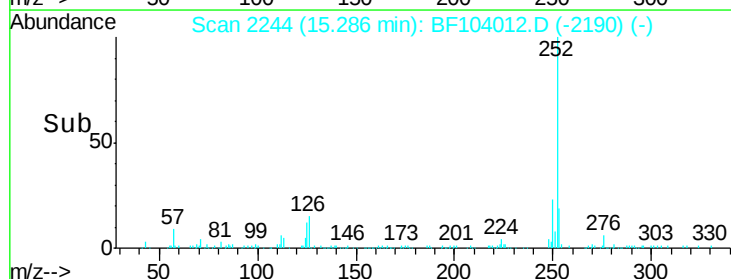
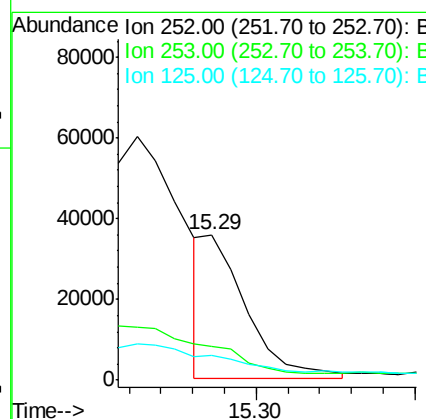
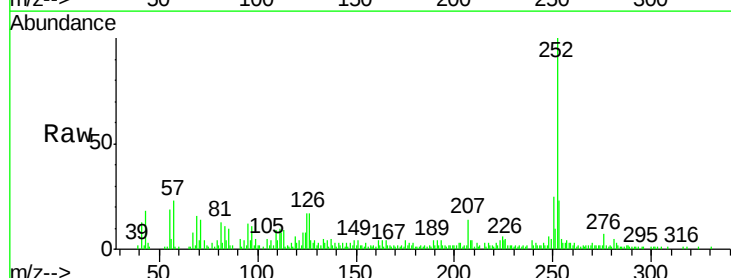
Manual Integrations
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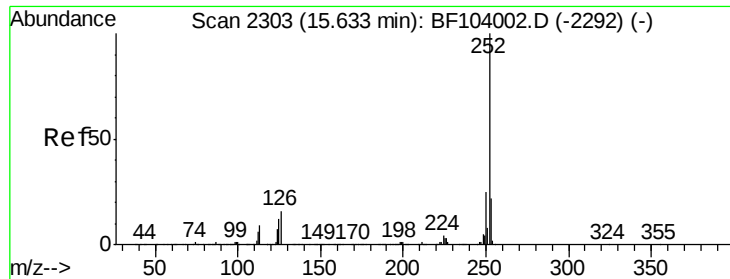
Sohil
3/29/2018 5:36:15 PM



#88
Benzo(k)fluoranthene
Concen: 2.083 ng m
RT: 15.29 min Scan# 2244
Delta R.T. 0.02 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	16.9	10.2	15.2





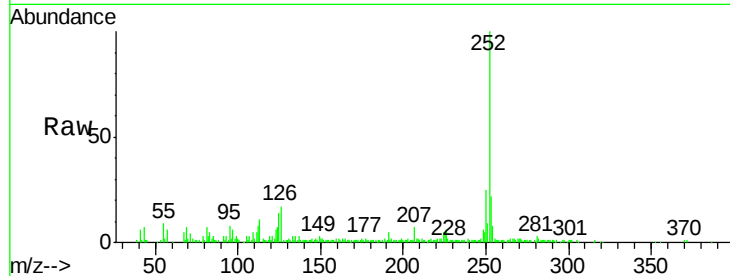
#89
Benzo(a)pyrene
Concen: 6.996 ng
RT: 15.66 min Scan# 2307
Delta R.T. 0.02 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Instrument :
BNA_F
ClientSampled :
DUP-032318

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	14.0	9.8	14.6

Manual Integrations
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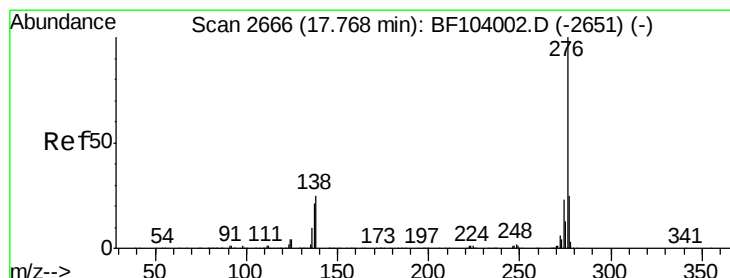
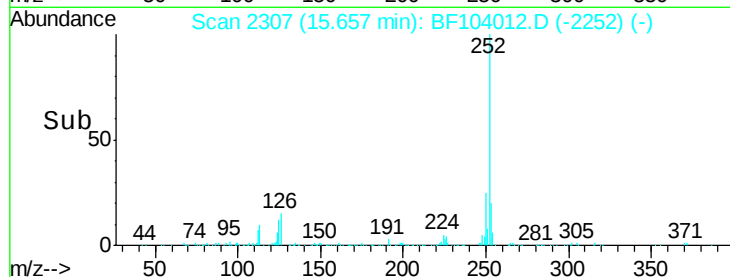
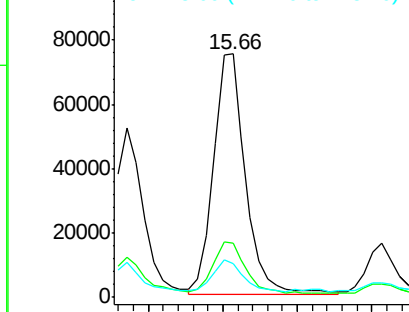


Abundance

Ion 252.00 (251.70 to 252.70): E

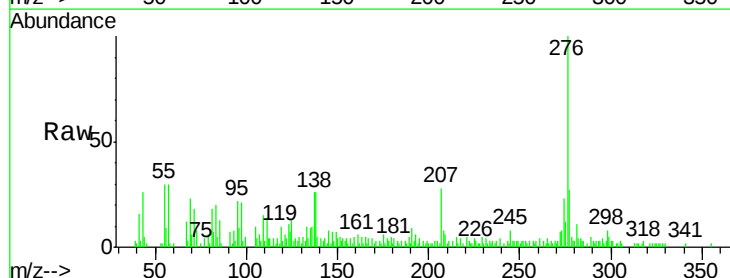
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 3.273 ng
RT: 17.79 min Scan# 2670
Delta R.T. 0.02 min
Lab File: BF104012.D
Acq: 28 Mar 2018 16:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.3	17.9	26.9#
138	25.8	21.8	32.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

