

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061215\
 Data File : BM001664.D
 Acq On : 12 Jun 2015 06:39
 Operator : TP/IZ
 Sample : G2449-03MSD 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMSD

Manual Integrations
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Quant Time: Jun 12 17:10:14 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 12 16:27:37 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	23229	5.00	ng	0.00
6) Naphthalene-d8	10.47	136	90221	5.00	ng	0.00
12) Acenaphthene-d10	14.34	164	45504	5.00	ng	0.00
18) Phenanthrene-d10	17.06	188	49654	5.00	ng	0.00
25) Chrysene-d12	21.27	240	73762	5.00	ng	0.00
32) Perylene-d12	23.50	264	58728	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.27	112	14638	2.66	ng	0.00
5) Phenol-d6	6.84	99	21144	3.06	ng	0.00
7) Nitrobenzene-d5	8.85	82	13377	1.94	ng	0.00
13) 2,4,6-Tribromophenol	15.83	330	5743	3.47	ng	0.00
14) 2-Fluorobiphenyl	12.96	172	29345	1.85	ng	0.00
27) Terphenyl-d14	19.72	244	21361	1.92	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.21	88	3851	1.56	ng	98
3) n-Nitrosodimethylamine	3.51	42	7027	1.73	ng	# 95
8) Nitrobenzene	8.89	77	14201	1.90	ng	99
9) Naphthalene	10.52	128	53078	2.43	ng	99
10) Hexachlorobutadiene	10.80	225	6507	1.79	ng	99
11) 2-Methylnaphthalene	12.14	142	31670	2.25	ng	# 87
15) Acenaphthylene	14.05	152	51377	2.42	ng	99
16) Acenaphthene	14.40	154	48205	3.56	ng	97
17) Fluorene	15.36	166	59194	4.28	ng	# 99
19) 4-Bromophenyl-phenylether	16.27	248	9277	1.86	ng	# 86
20) Hexachlorobenzene	16.38	284	10239	2.27	ng	90
21) Pentachlorophenol	16.72	266	46034	25.27	ng	95
22) Phenanthrene	17.12	178	306774	18.84	ng	# 99
23) Anthracene	17.19	178	151093m	7.85	ng	
24) Fluoranthene	19.14	202	619673	25.69	ng	99
26) Pyrene	19.50	202	572953	22.63	ng	# 94
28) Benzo(a)anthracene	21.25	228	315422	13.61	ng	98
29) Chrysene	21.30	228	213661	9.63	ng	98
30) Bis(2-ethylhexyl)phthalate	21.18	149	39957	2.53	ng	100
31) Indeno(1,2,3-cd)pyrene	25.75	276	114707	6.58	ng	97
33) Benzo(b)fluoranthene	22.83	252	259054m	13.52	ng	
34) Benzo(k)fluoranthene	22.87	252	105973m	5.70	ng	
35) Benzo(a)pyrene	23.40	252	185761	11.64	ng	99
36) Dibenzo(a,h)anthracene	25.76	278	44929	3.35	ng	98
37) Benzo(g,h,i)perylene	26.44	276	107911	7.90	ng	98

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

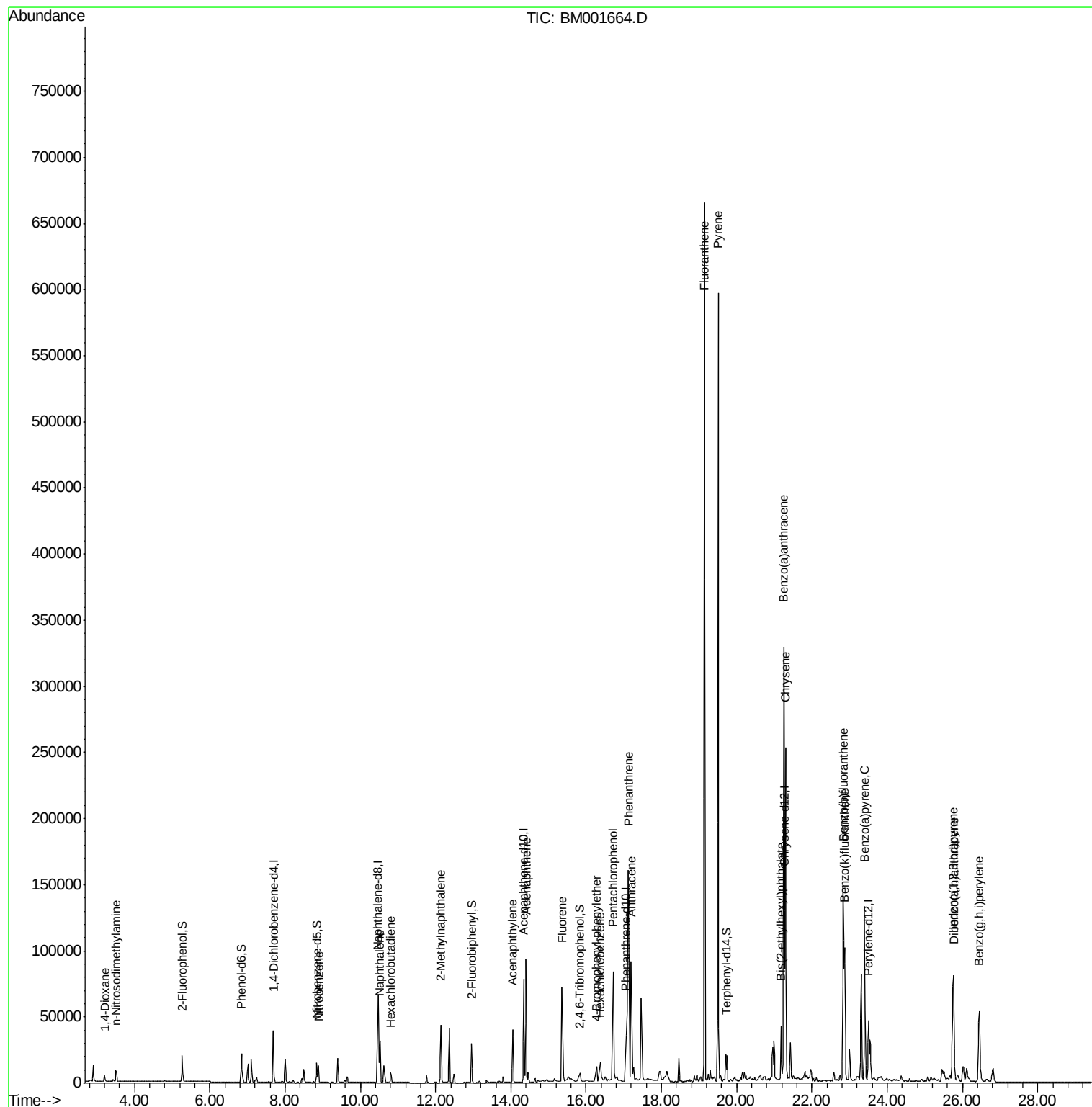
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061215\
Data File : BM001664.D
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Operator : TP/IZ
Sample : G2449-03MSD 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

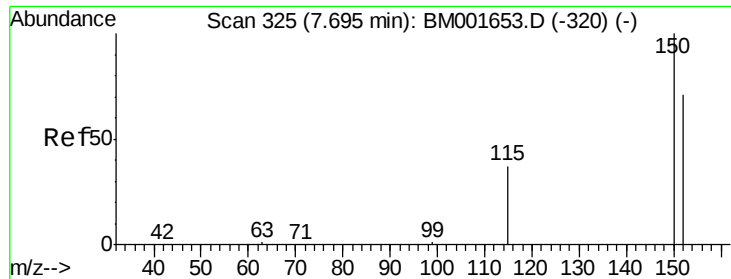
Instrument :
BNA_M
ClientSampleId :
FM2AMSD

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Quant Time: Jun 12 17:10:14 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 12 16:27:37 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.70 min Scan# 325

Delta R.T. 0.00 min

Lab File: BM001664.D

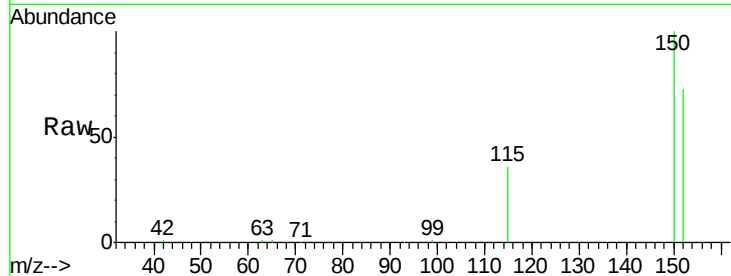
Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

ClientSampleId :

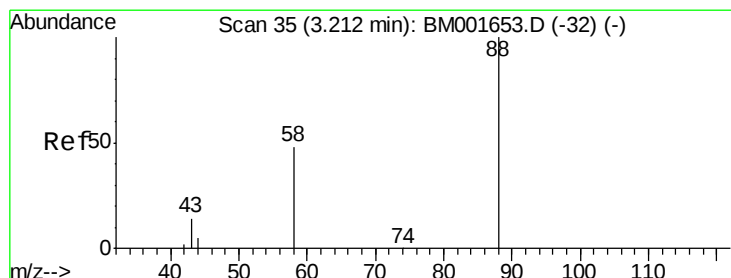
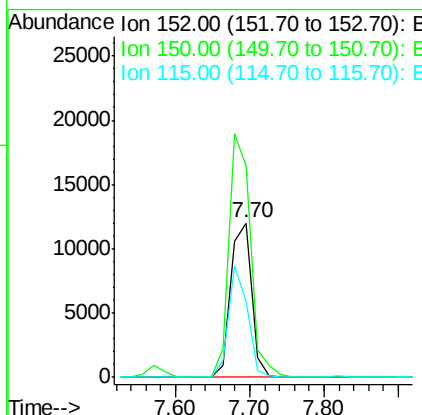
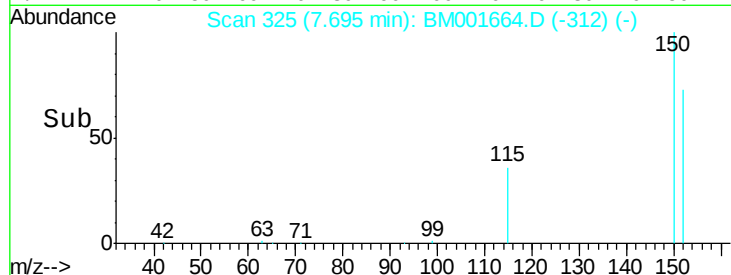
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Tgt Ion:	152	Resp:	23229
Ion Ratio	Lower	Upper	
152	100		
150	136.9	112.2	168.2
115	49.3	41.7	62.5

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#2

1,4-Dioxane

Concen: 1.56 ng

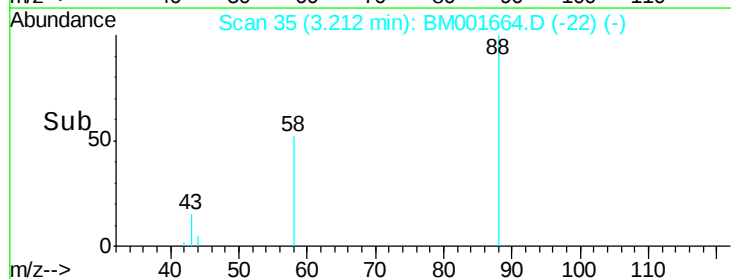
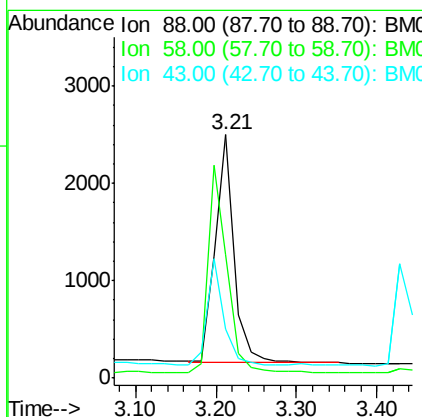
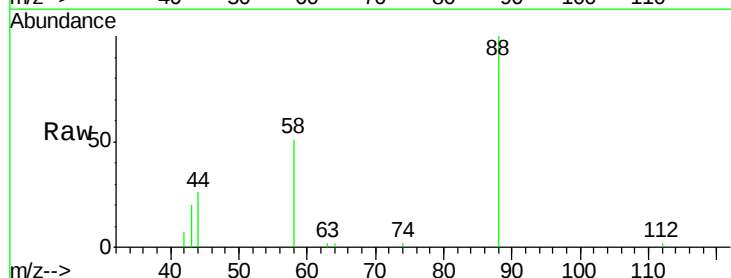
RT: 3.21 min Scan# 35

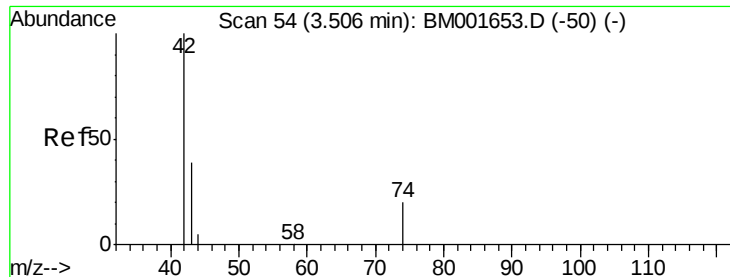
Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Tgt Ion:	88	Resp:	3851
Ion Ratio	Lower	Upper	
88	100		
58	89.6	70.5	105.7
43	40.4	33.3	49.9





#3

n-Nitrosodimethylamine

Concen: 1.73 ng

RT: 3.51 min Scan# 54

Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

ClientSampleId :

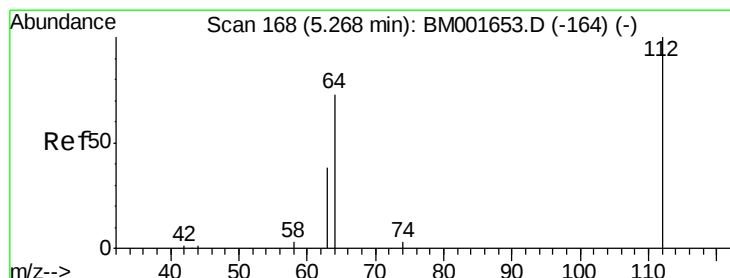
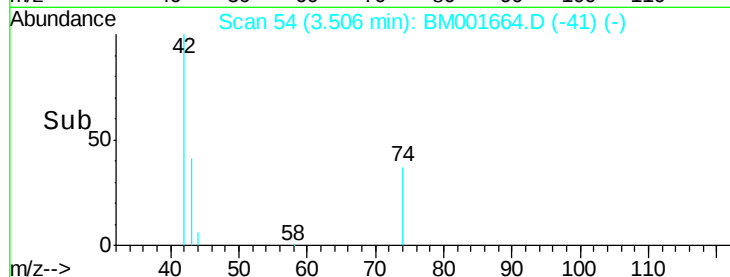
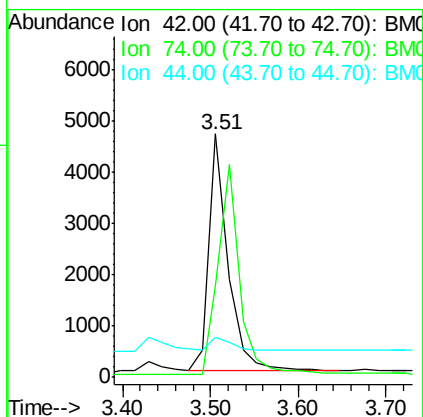
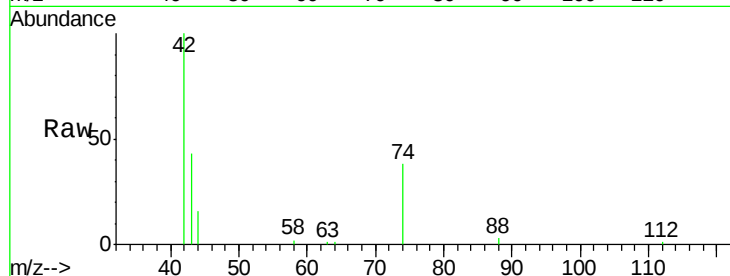
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Tgt Ion:	42	Resp:	7027
Ion	Ratio	Lower	Upper
42	100		
74	99.1	75.7	113.5
44	6.6	6.7	10.1#



#4

2-Fluorophenol

Concen: 2.66 ng

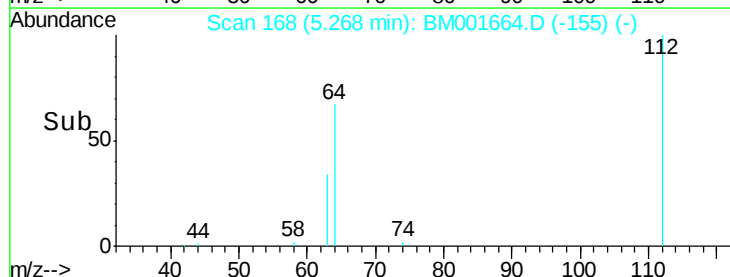
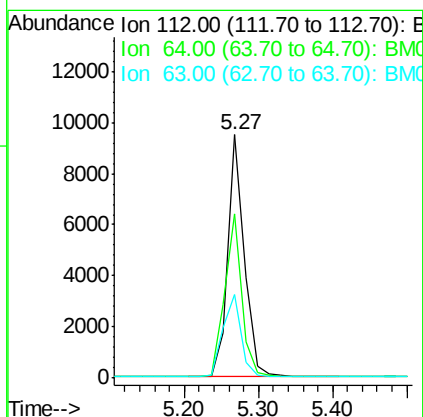
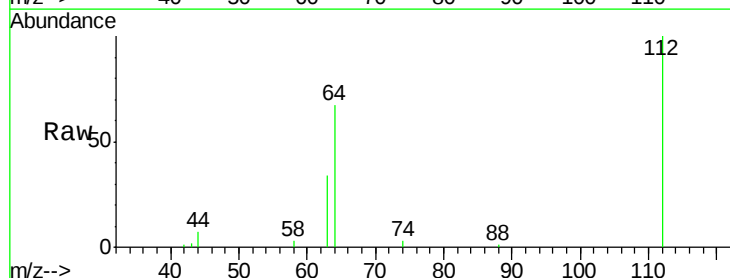
RT: 5.27 min Scan# 168

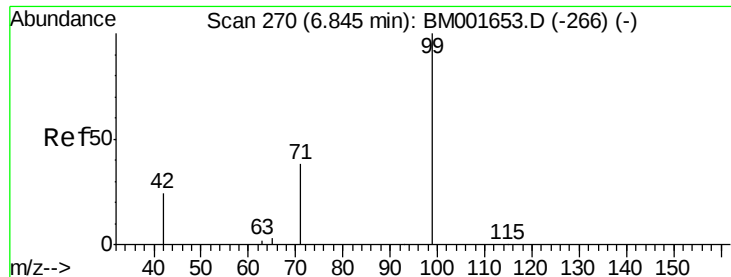
Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Tgt Ion:	112	Resp:	14638
Ion	Ratio	Lower	Upper
112	100		
64	69.3	55.5	83.3
63	37.6	29.9	44.9





#5

Phenol-d6

Concen: 3.06 ng

RT: 6.84 min Scan# 270

Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

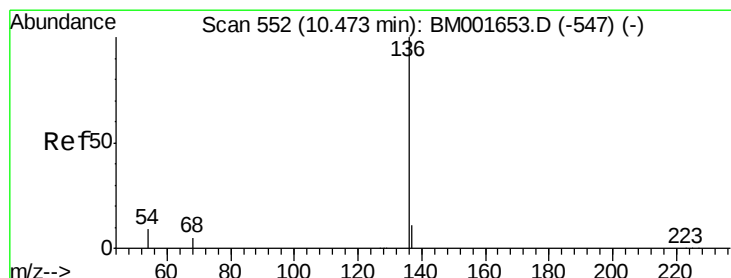
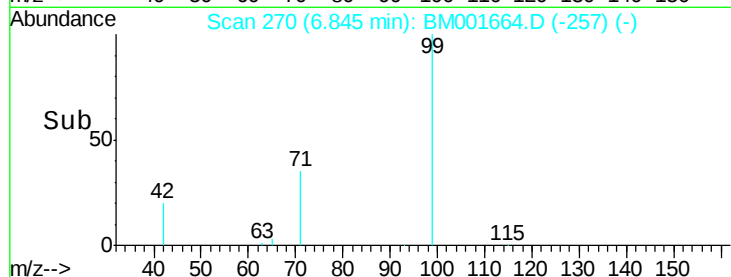
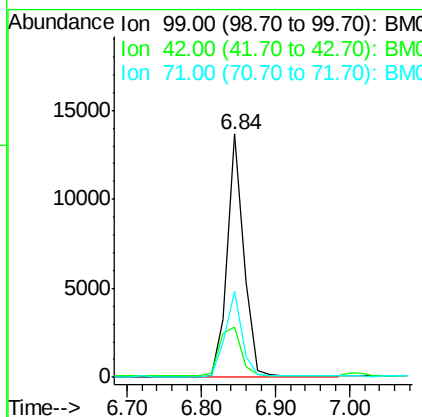
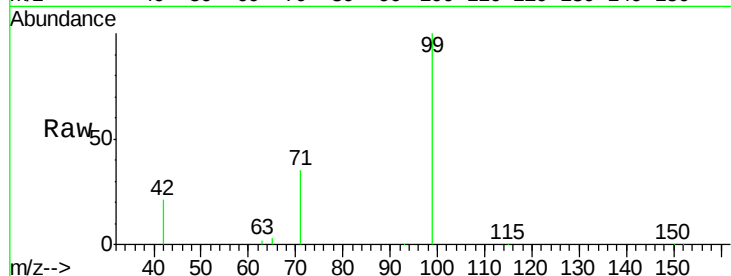
ClientSampleId :

FM2AMSD

Tgt Ion:	99	Resp:	21144
Ion	Ratio	Lower	Upper
99	100		
42	25.8	21.6	32.4
71	35.3	28.7	43.1

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#6

Naphthalene-d8

Concen: 5.00 ng

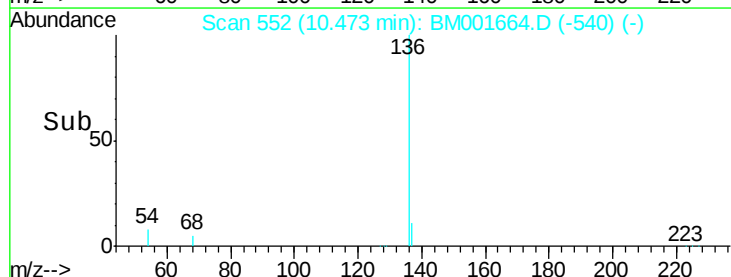
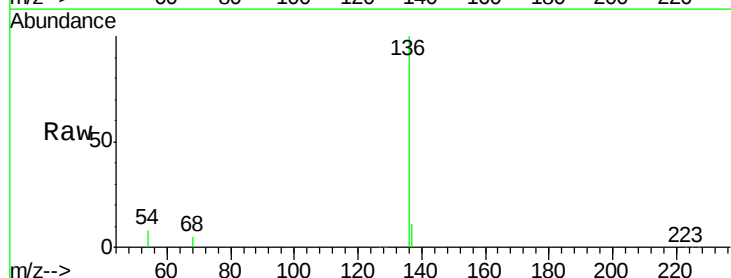
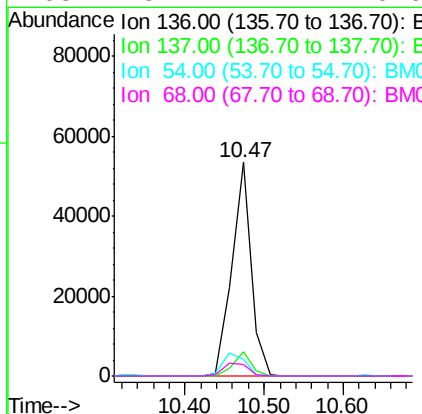
RT: 10.47 min Scan# 552

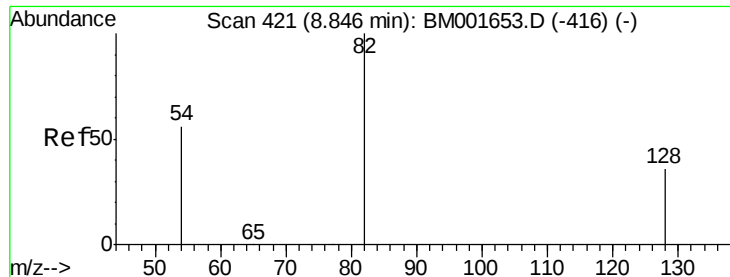
Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Tgt Ion:	136	Resp:	90221
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	7.7	6.9	10.3
68	5.2	4.4	6.6





#7

Nitrobenzene-d5

Concen: 1.94 ng

RT: 8.85 min Scan# 421

Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

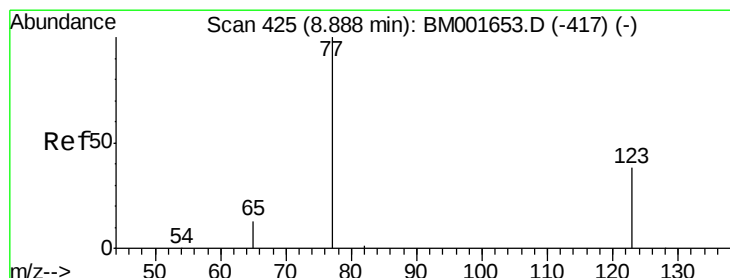
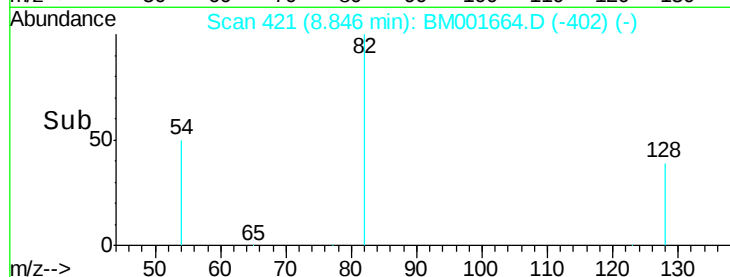
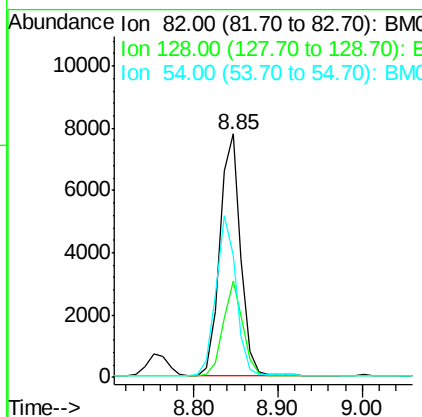
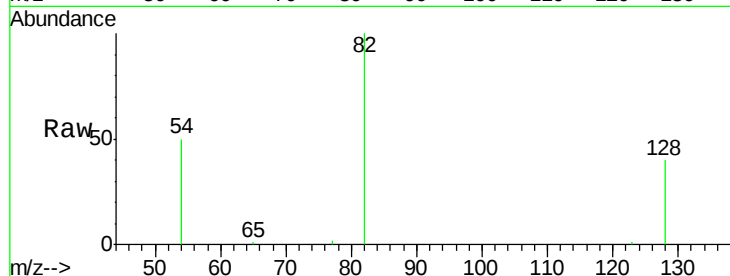
ClientSampleId :

FM2AMSD

Tgt Ion:	82	Resp:	13377
Ion Ratio	Lower	Upper	
82	100		
128	39.5	29.7	44.5
54	50.1	45.1	67.7

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#8

Nitrobenzene

Concen: 1.90 ng

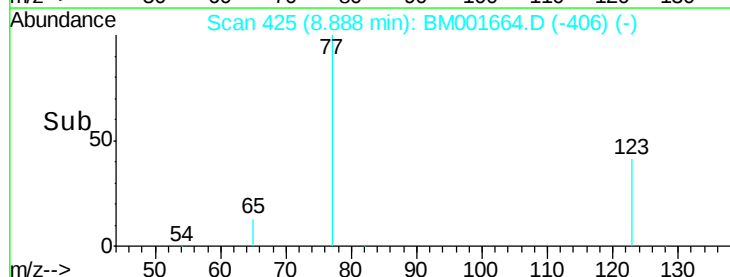
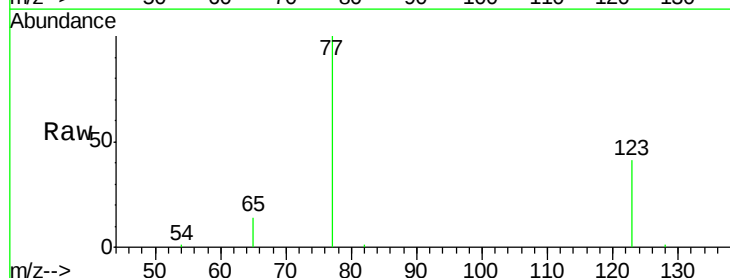
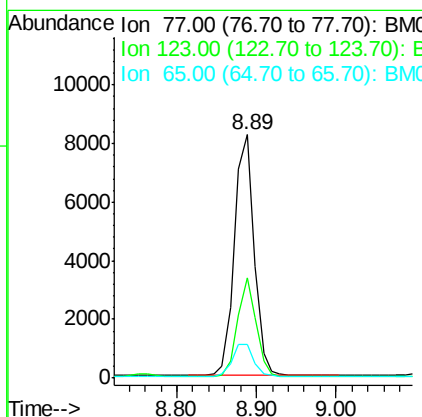
RT: 8.89 min Scan# 425

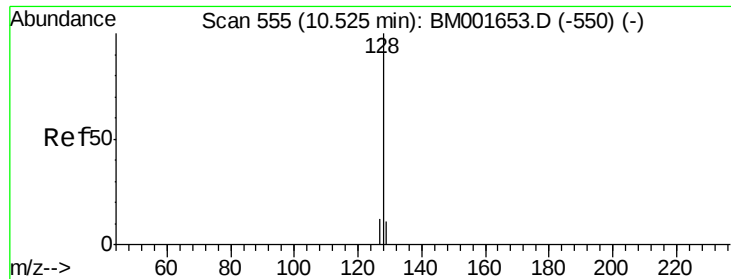
Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Tgt Ion:	77	Resp:	14201
Ion Ratio	Lower	Upper	
77	100		
123	38.5	30.3	45.5
65	14.2	11.2	16.8





#9

Naphthalene

Concen: 2.43 ng

RT: 10.52 min Scan# 555

Delta R.T. 0.00 min

Lab File: BM001664.D

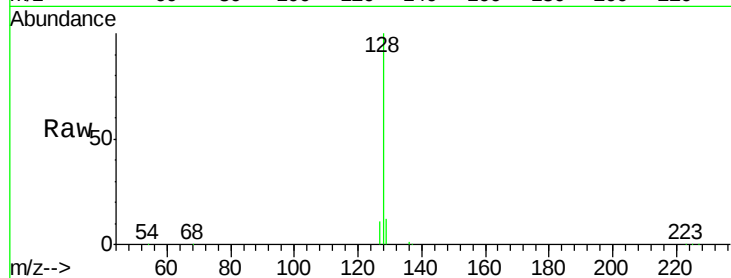
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Instrument :

BNA_M

ClientSampleId :

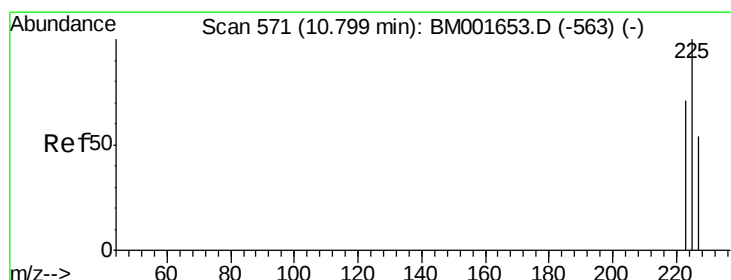
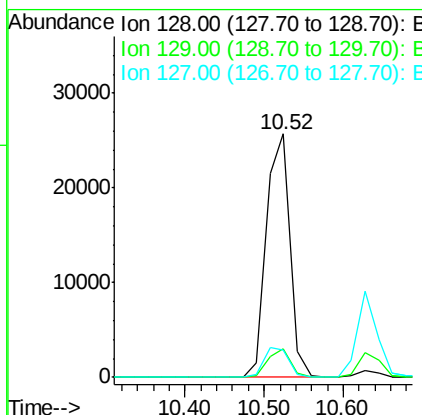
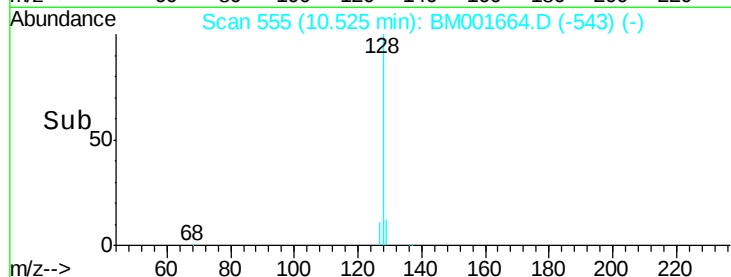
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Tgt Ion:	128	Resp:	53078
Ion Ratio	Lower	Upper	
128	100		
129	11.7	9.4	14.2
127	11.5	9.7	14.5

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#10

Hexachlorobutadiene

Concen: 1.79 ng

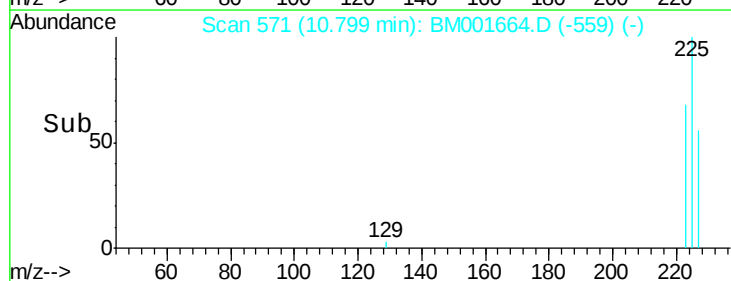
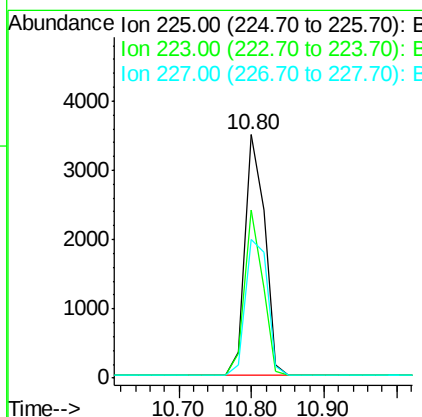
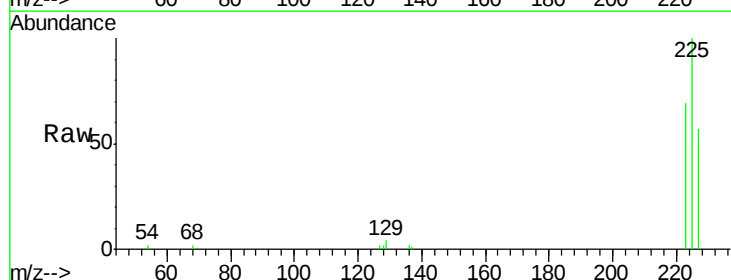
RT: 10.80 min Scan# 571

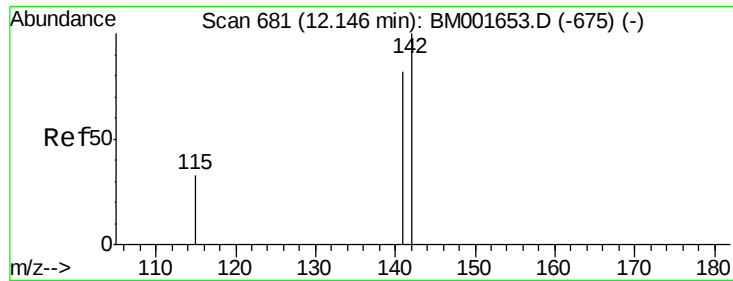
Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Tgt Ion:	225	Resp:	6507
Ion Ratio	Lower	Upper	
225	100		
223	63.0	51.0	76.4
227	63.2	51.2	76.8





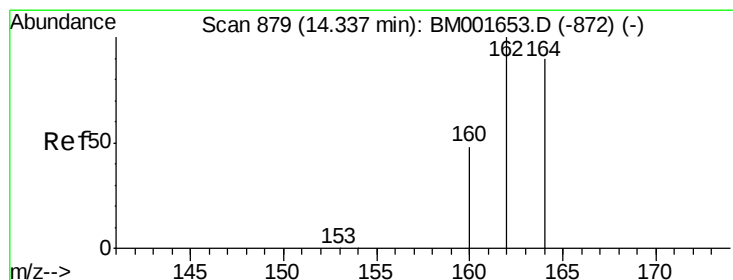
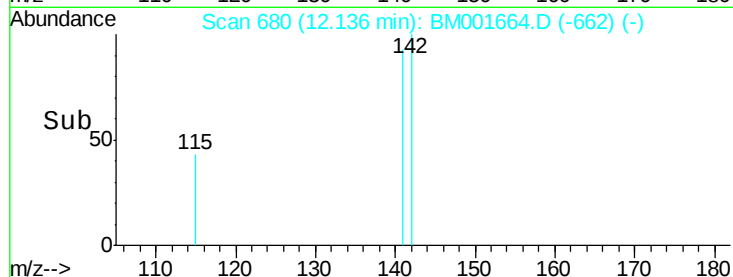
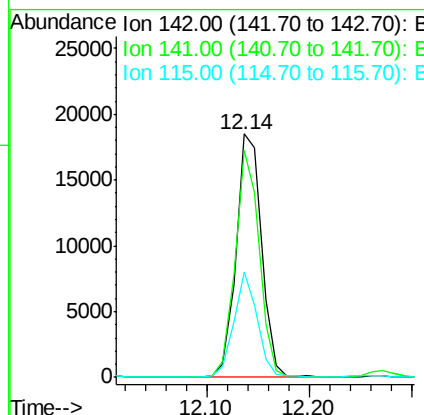
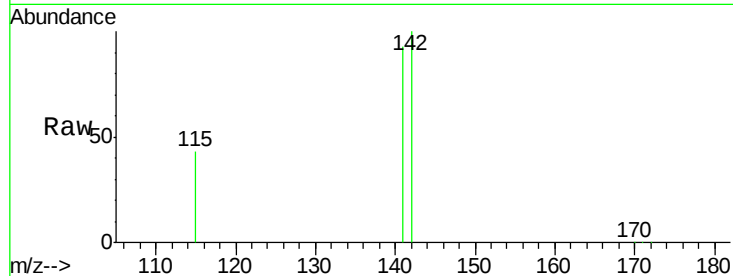
#11
2-Methylnaphthalene
Concen: 2.25 ng
RT: 12.14 min Scan# 680
Delta R.T. -0.01 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

Instrument :
BNA_M
ClientSampleId :
FM2AMSD

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.1	65.8	98.6
115	43.1	27.0	40.6

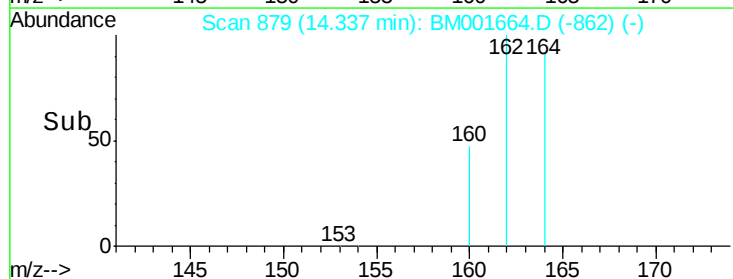
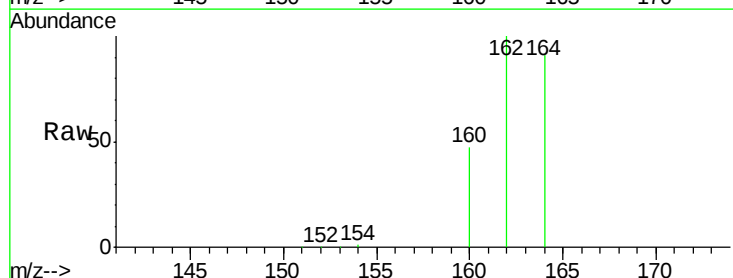
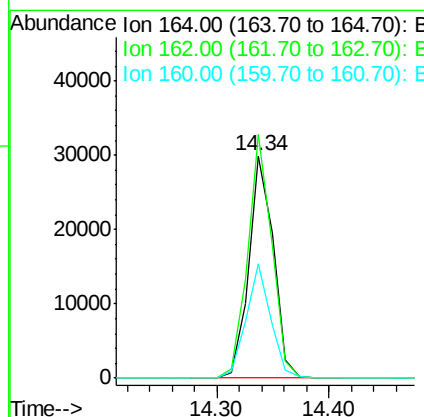
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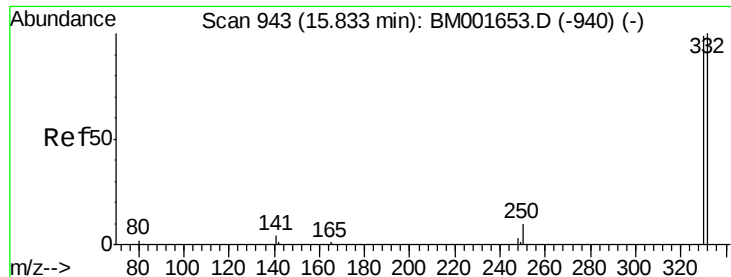
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.34 min Scan# 879
Delta R.T. 0.00 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Lower	Upper
164	100		
162	109.5	89.0	133.4
160	51.4	42.6	63.8





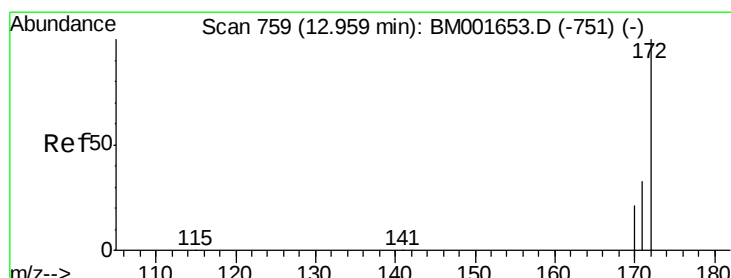
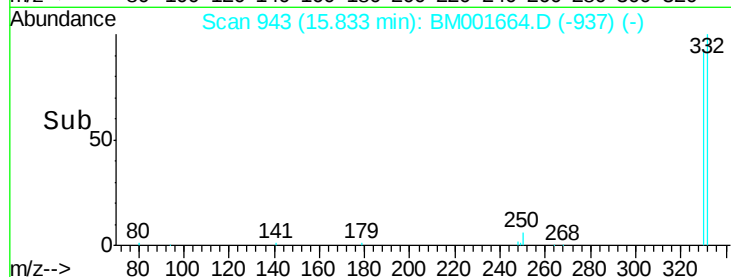
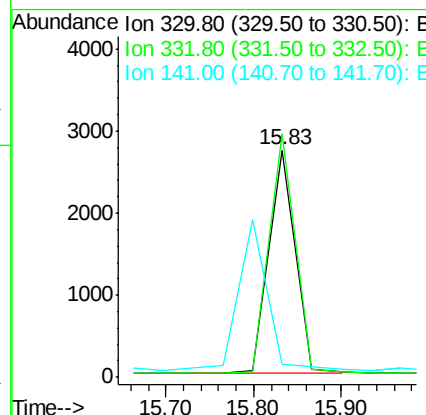
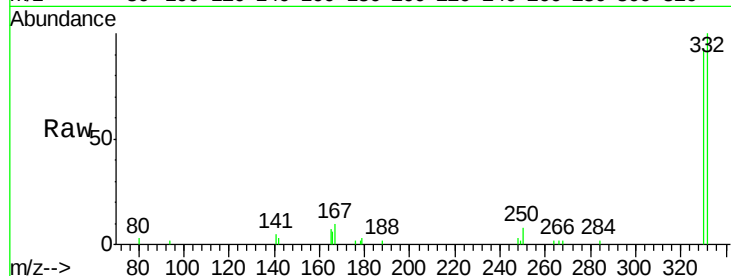
#13
 2,4,6-Tribromophenol
 Concen: 3.47 ng
 RT: 15.83 min Scan# 943
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMSD

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	5743		
332	106.6		80.6	120.8
141	0.0		0.0	0.0

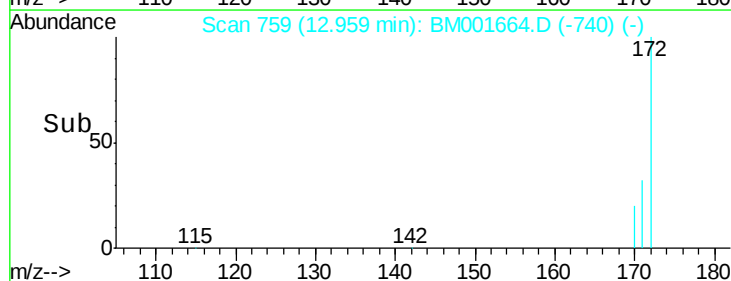
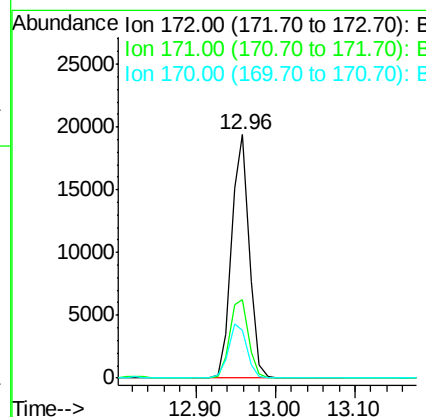
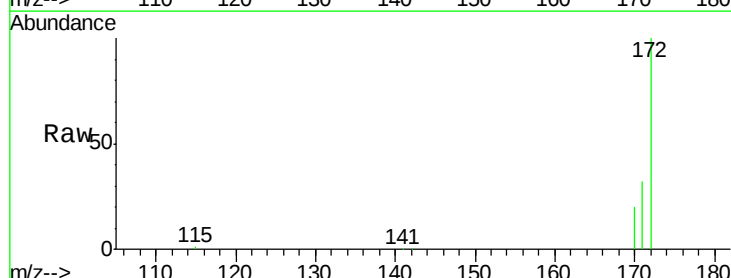
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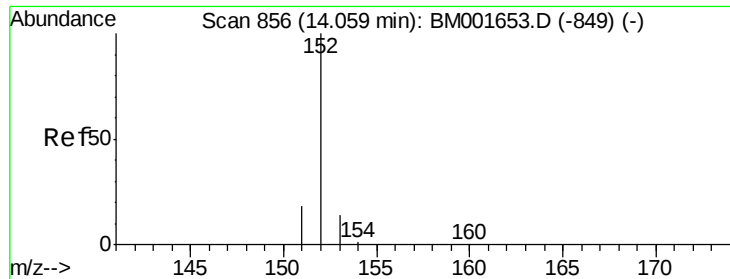
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#14
 2-Fluorobiphenyl
 Concen: 1.85 ng
 RT: 12.96 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	29345		
171	32.2		26.6	40.0
170	19.8		17.1	25.7





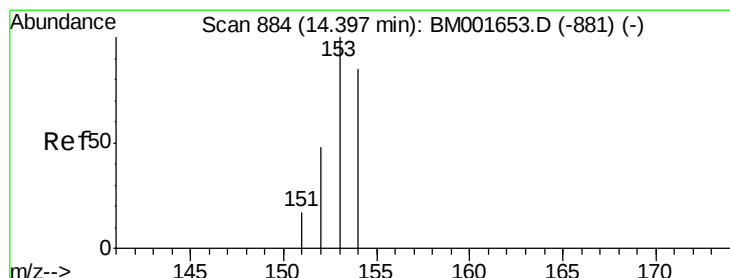
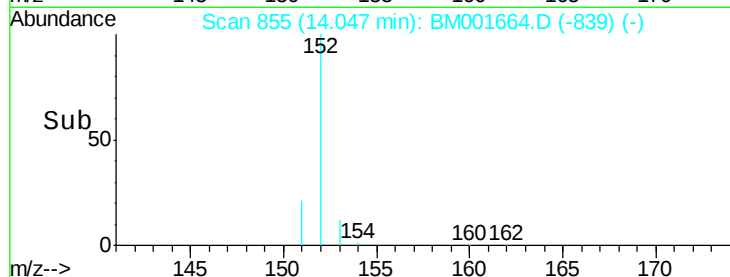
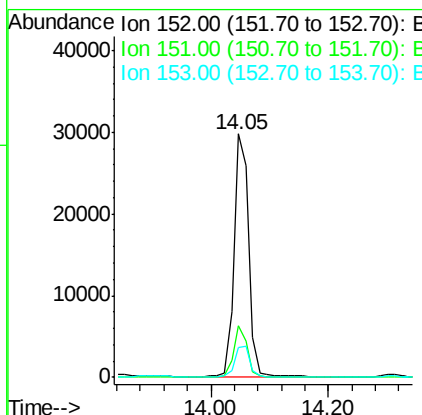
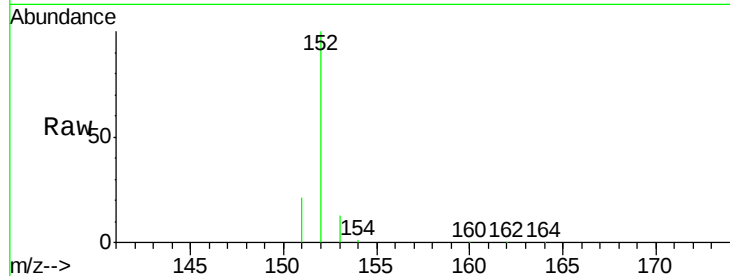
#15
Acenaphthylene
Concen: 2.42 ng
RT: 14.05 min Scan# 855
Delta R.T. -0.01 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

Instrument :
BNA_M
ClientSampleId :
FM2AMSD

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.5	23.3
153	13.3	10.2	15.4

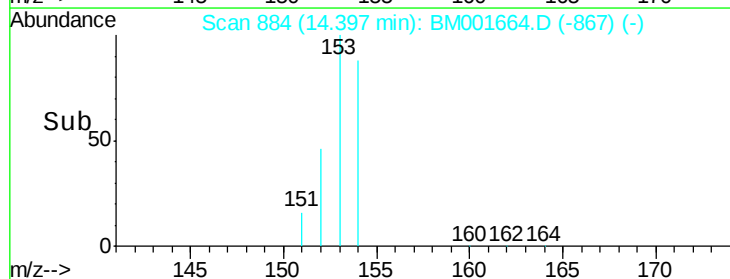
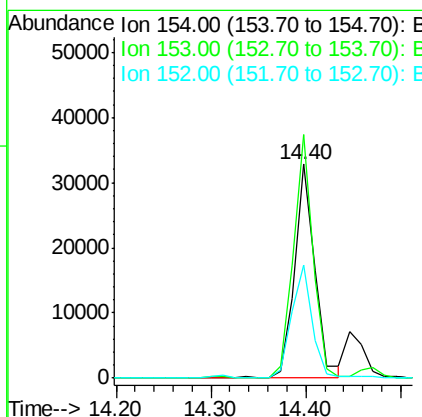
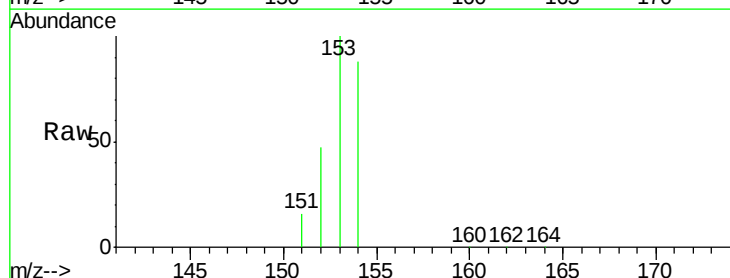
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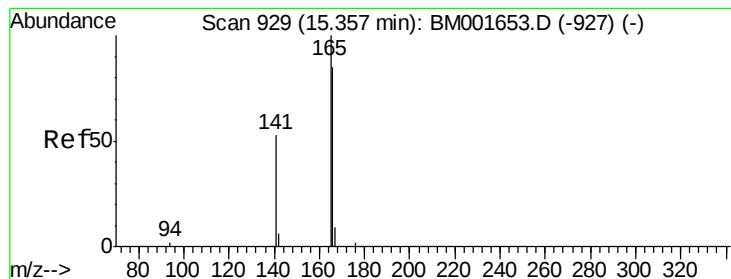
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#16
Acenaphthene
Concen: 3.56 ng
RT: 14.40 min Scan# 884
Delta R.T. 0.00 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Lower	Upper
154	100		
153	109.6	91.0	136.6
152	53.0	43.8	65.8





#17

Fluorene

Concen: 4.28 ng

RT: 15.36 min Scan# 929

Delta R.T. 0.00 min

Lab File: BM001664.D

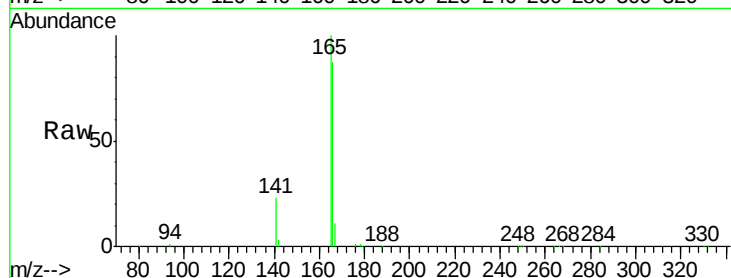
Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

ClientSampleId :

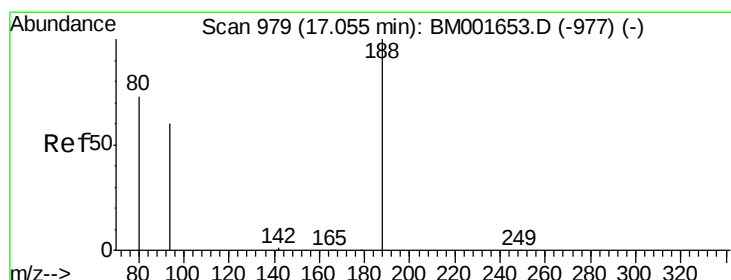
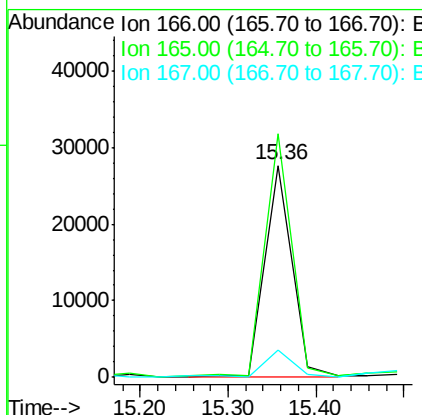
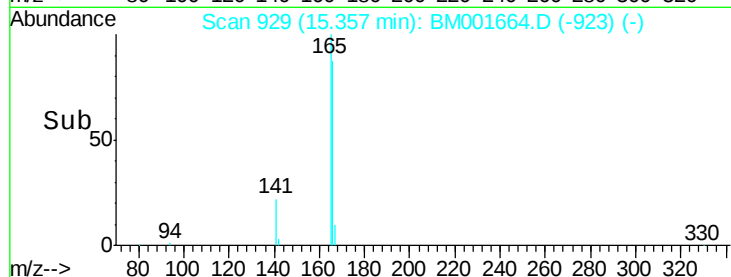
FM2AMSD



Tgt Ion:	166	Resp:	59194
Ion Ratio	Lower	Upper	
166	100		
165	112.8	90.7	136.1
167	14.4	9.4	14.0#

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#18

Phenanthrene-d10

Concen: 5.00 ng

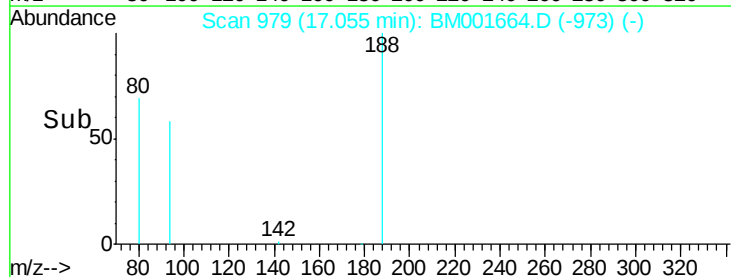
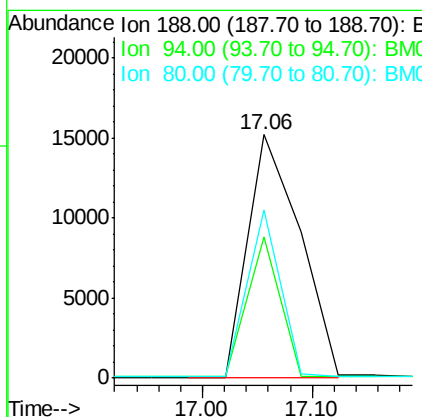
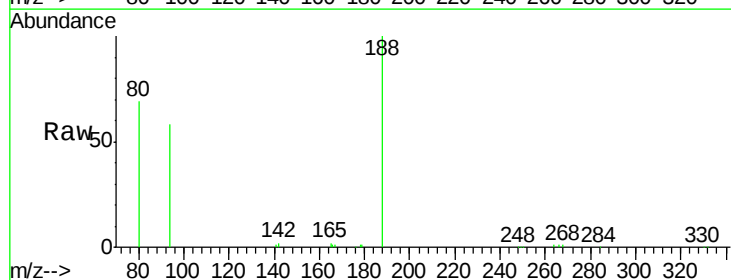
RT: 17.06 min Scan# 979

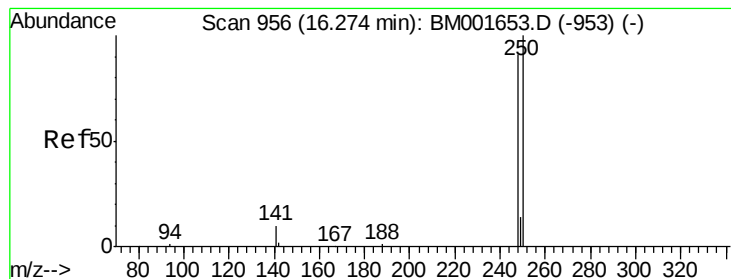
Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Tgt Ion:	188	Resp:	49654
Ion Ratio	Lower	Upper	
188	100		
94	58.2	48.3	72.5
80	69.3	58.6	88.0





#19

4-Bromophenyl-phenylether

Concen: 1.86 ng

RT: 16.27 min Scan# 956

Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

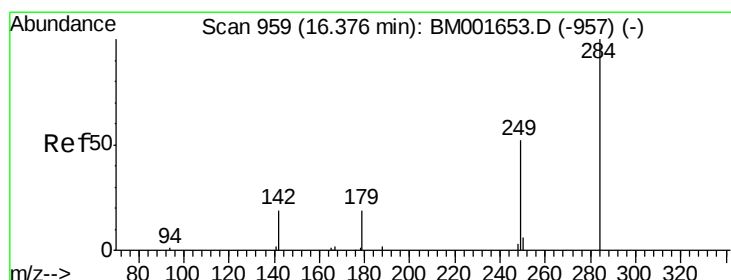
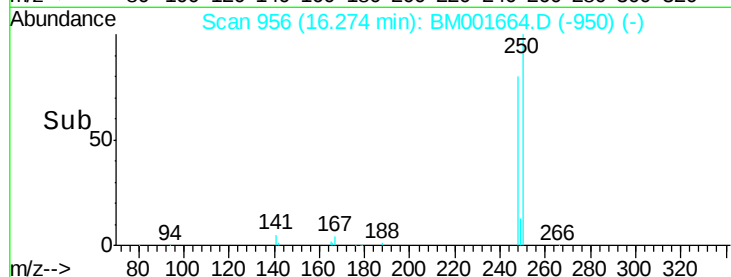
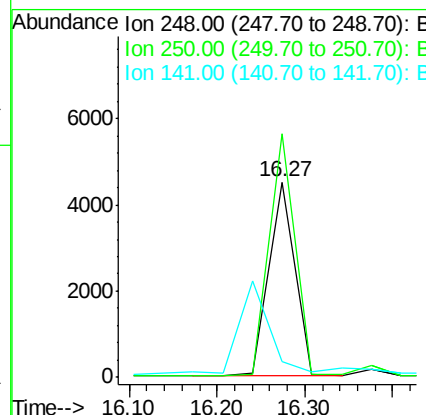
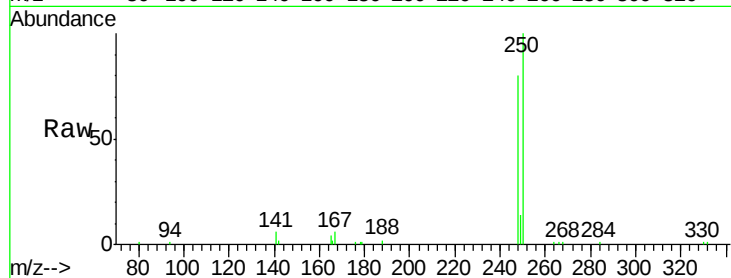
ClientSampleId :

FM2AMSD

Tgt Ion:	248	Resp:	9277
Ion Ratio	Lower	Upper	
248	100		
250	123.7	87.5	131.3
141	0.0	0.0	0.0

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#20

Hexachlorobenzene

Concen: 2.27 ng

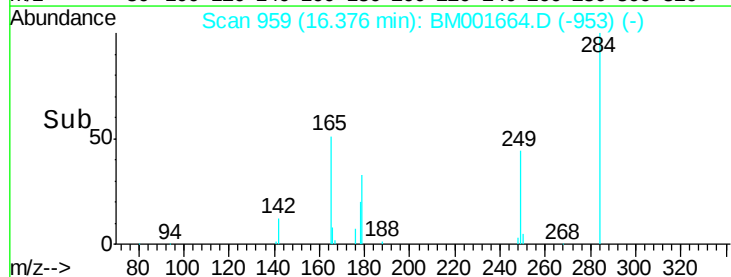
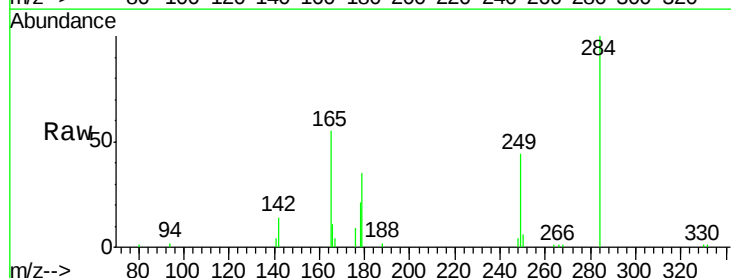
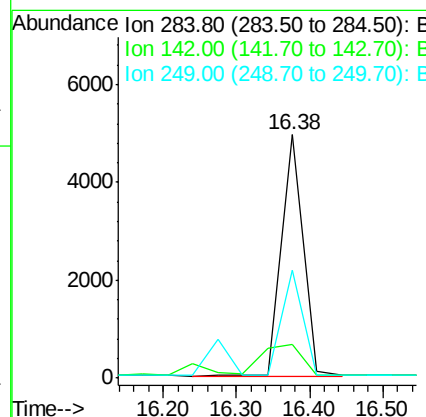
RT: 16.38 min Scan# 959

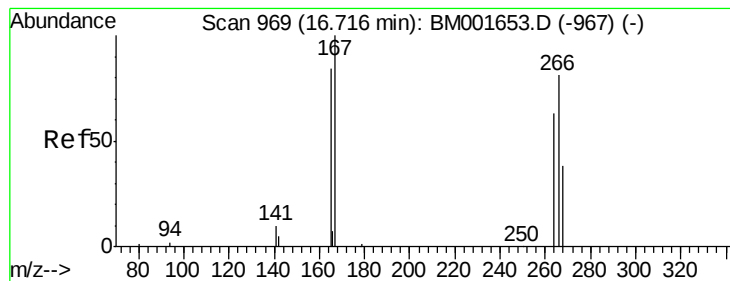
Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Tgt Ion:	284	Resp:	10239
Ion Ratio	Lower	Upper	
284	100		
142	23.6	21.5	32.3
249	57.6	53.8	80.6





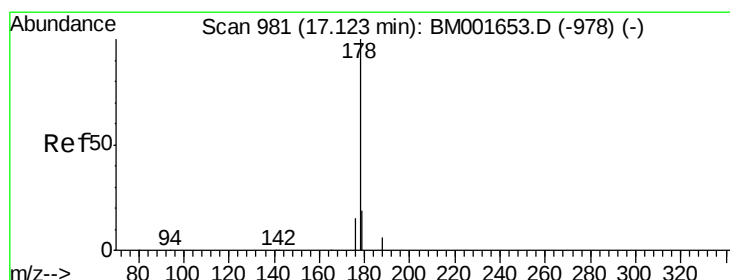
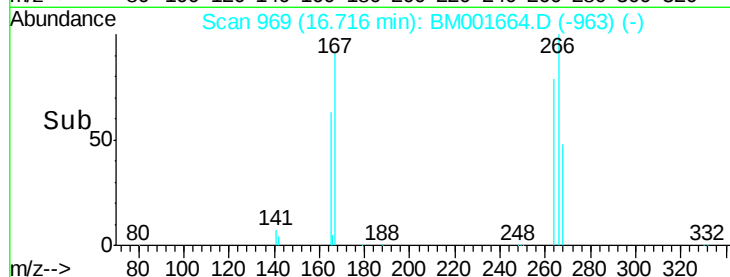
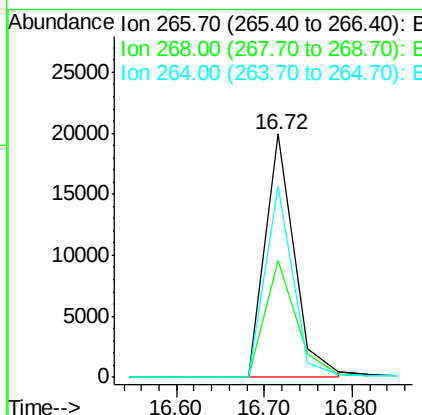
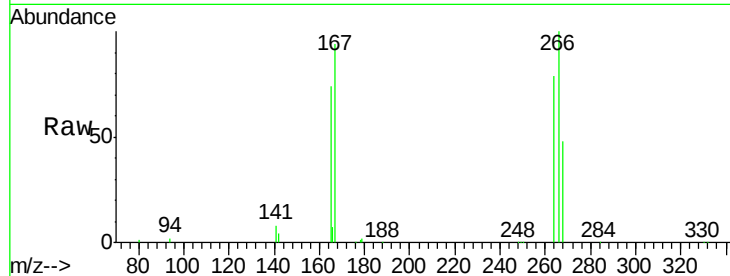
#21
 Pentachlorophenol
 Concen: 25.27 ng
 RT: 16.72 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMSD

Tgt Ion	Ratio	Lower	Upper
266	100		
268	48.0	43.3	64.9
264	78.7	64.5	96.7

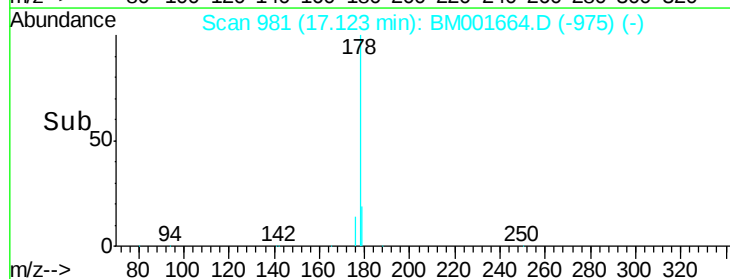
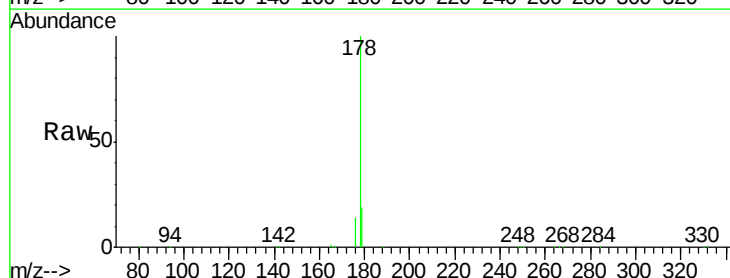
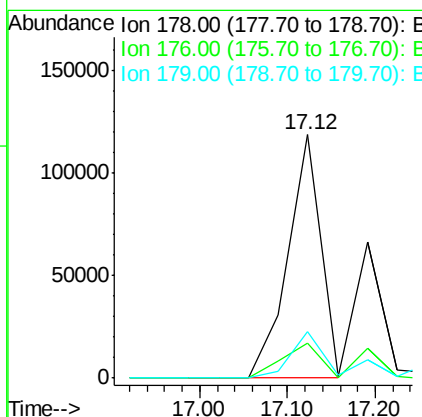
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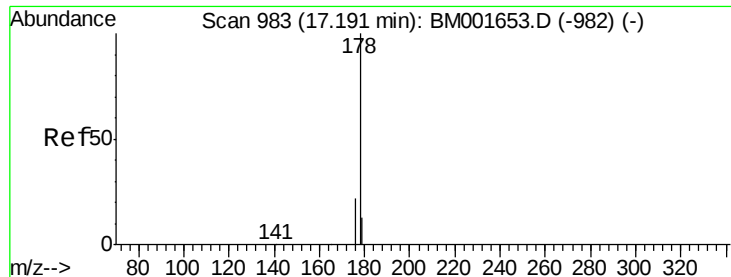
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#22
 Phenanthrene
 Concen: 18.84 ng
 RT: 17.12 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.0	0.0	0.0#
179	18.2	14.2	21.2





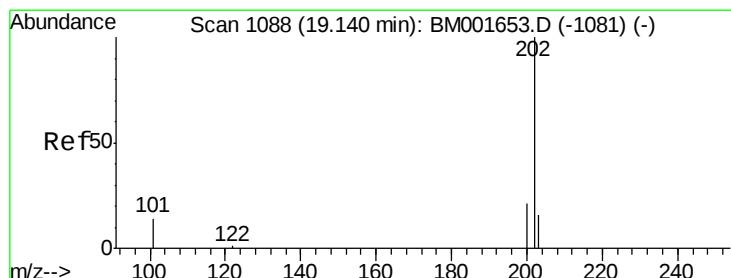
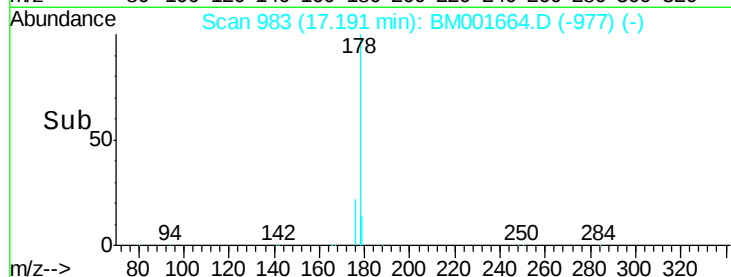
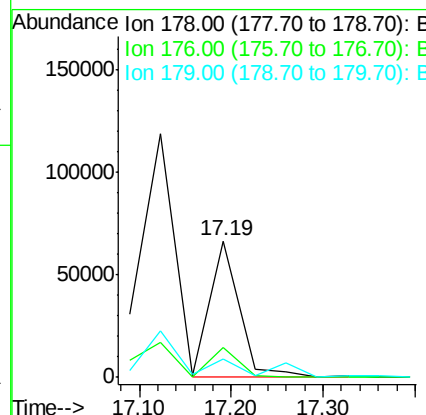
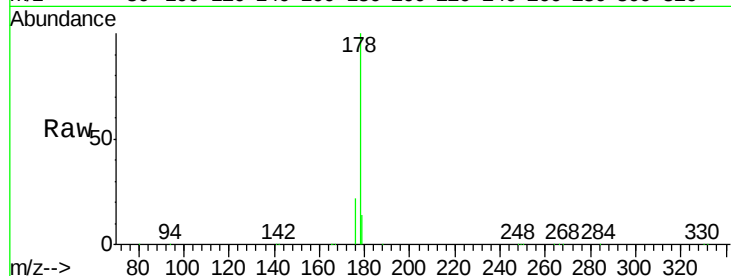
#23
 Anthracene
 Concen: 7.85 ng m
 RT: 17.19 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	55.0	0.0	0.0#
179	50.1	21.4	32.0#

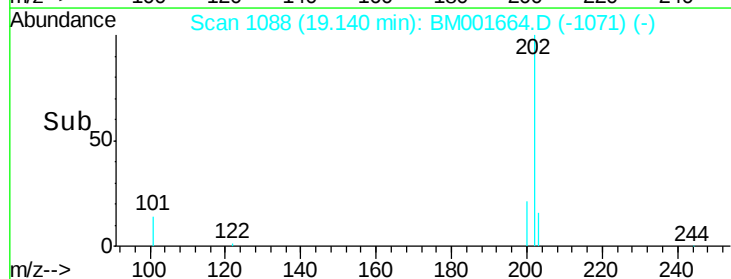
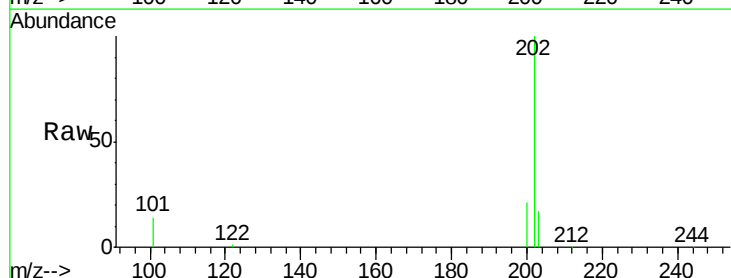
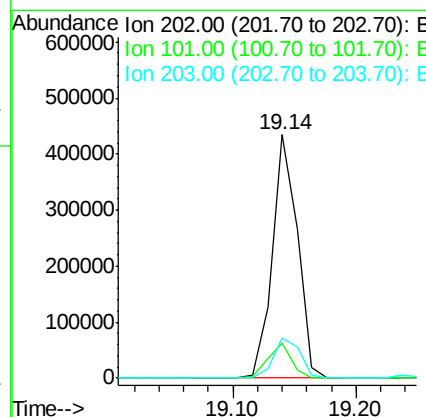
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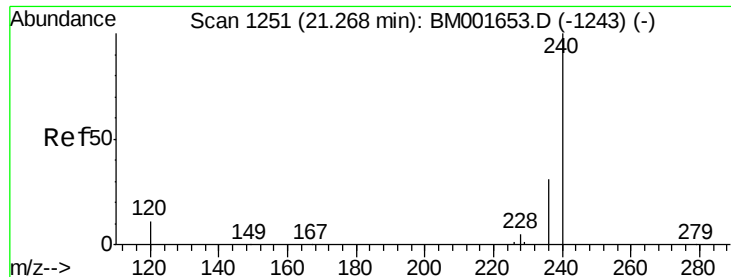
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#24
 Fluoranthene
 Concen: 25.69 ng
 RT: 19.14 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.8	10.8	16.2
203	17.6	13.8	20.8





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.27 min Scan# 1251

Delta R.T. 0.00 min

Lab File: BM001664.D

Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

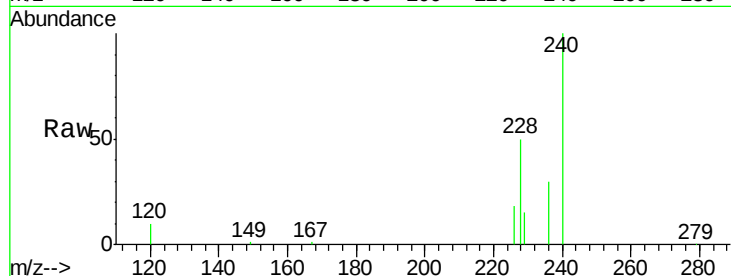
ClientSampleId :

FM2AMSD

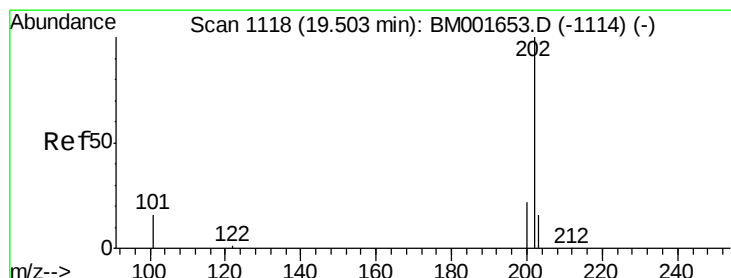
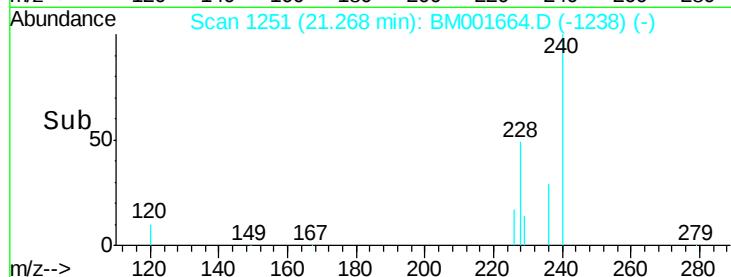
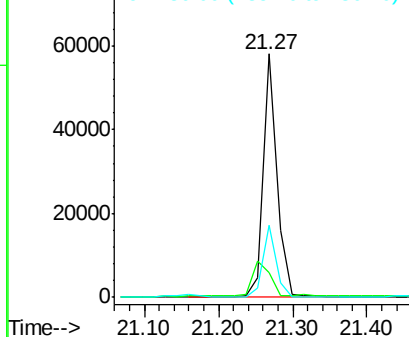
Tgt Ion:	240	Resp:	73762
Ion Ratio	Lower	Upper	
240	100		
120	10.4	8.9	13.3
236	29.6	24.6	36.8

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#26

Pyrene

Concen: 22.63 ng

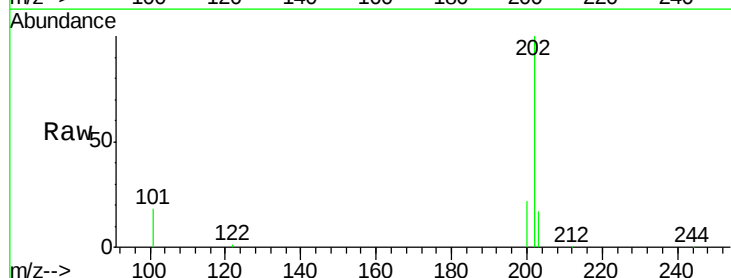
RT: 19.50 min Scan# 1118

Delta R.T. 0.00 min

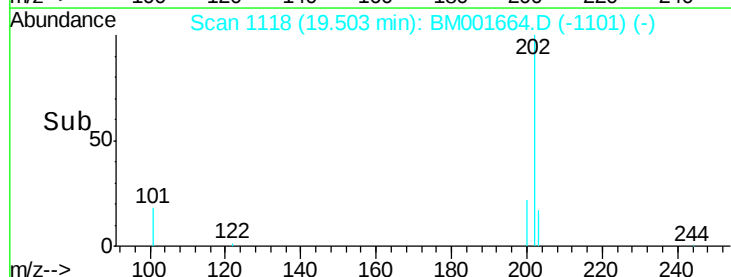
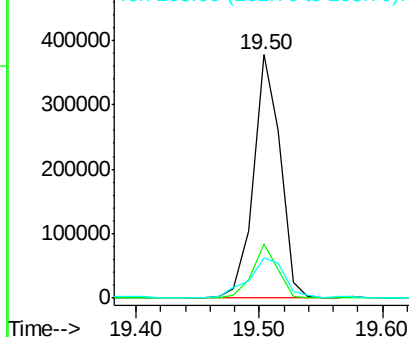
Lab File: BM001664.D

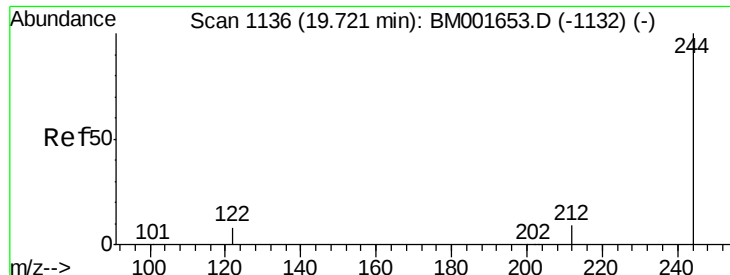
Acq: 12 Jun 2015 06:39

Tgt Ion:	202	Resp:	572953
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.6	24.8
203	22.4	13.8	20.8#



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





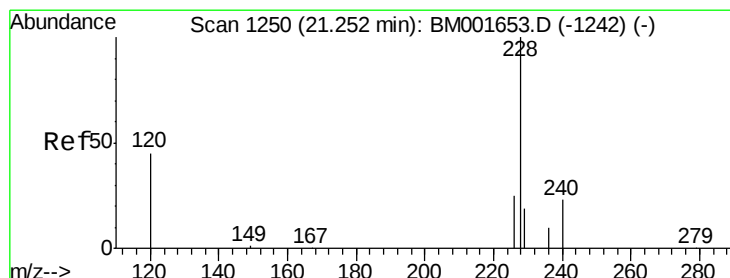
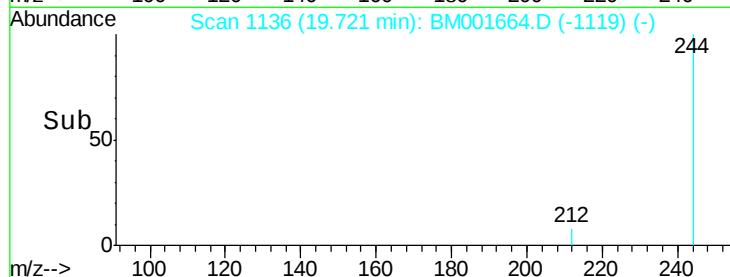
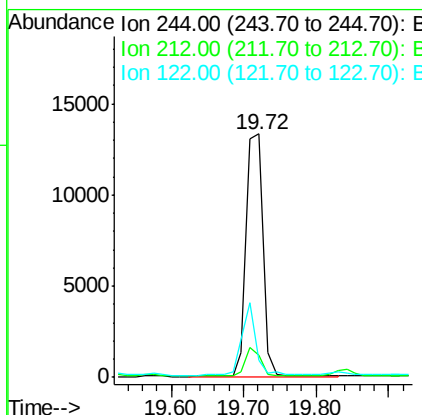
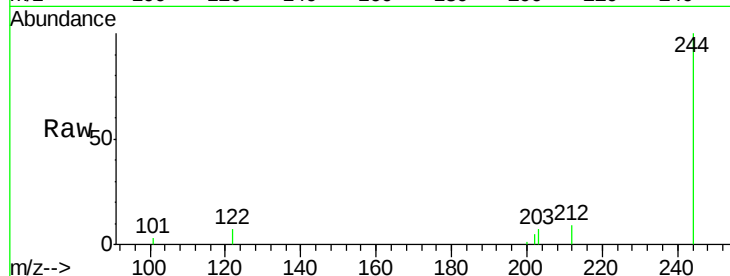
#27
 Terphenyl-d14
 Concen: 1.92 ng
 RT: 19.72 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMSD

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.7	11.5
122	7.2	6.9	10.3

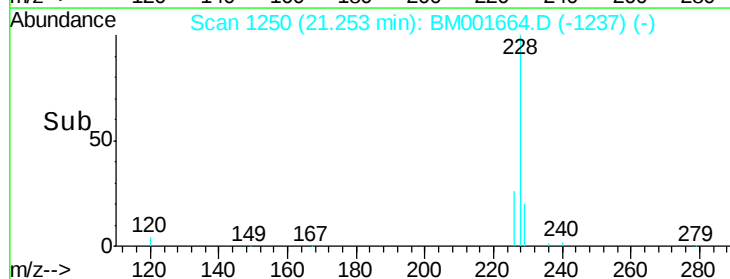
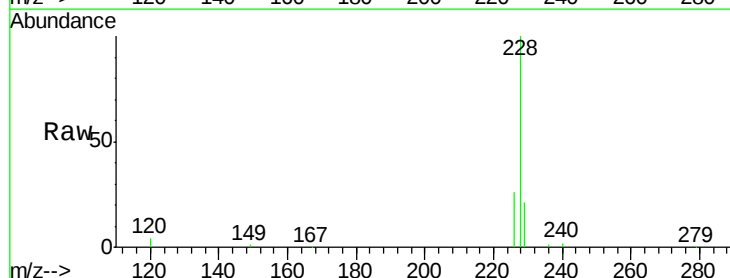
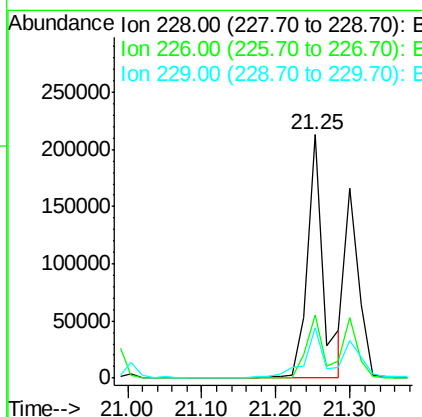
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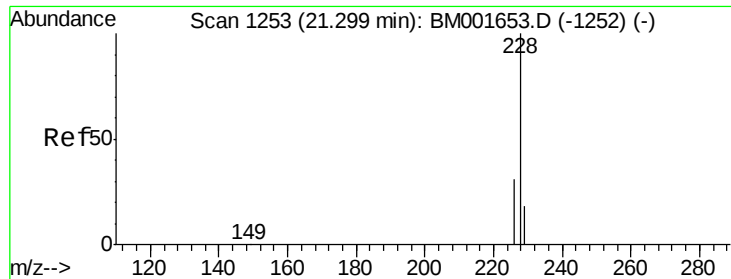
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#28
 Benzo(a)anthracene
 Concen: 13.61 ng
 RT: 21.25 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.9	20.2	30.4
229	20.9	15.7	23.5





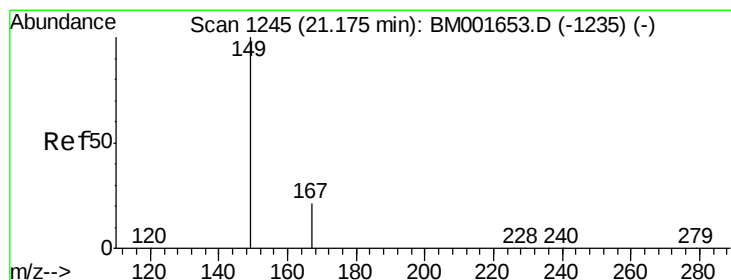
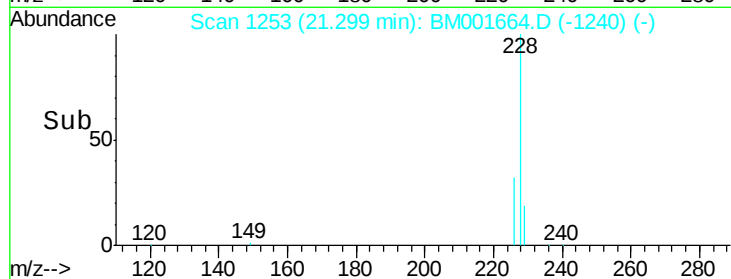
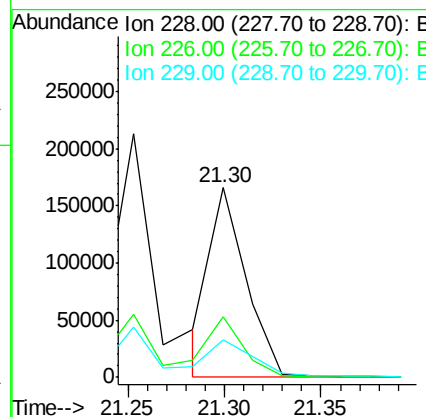
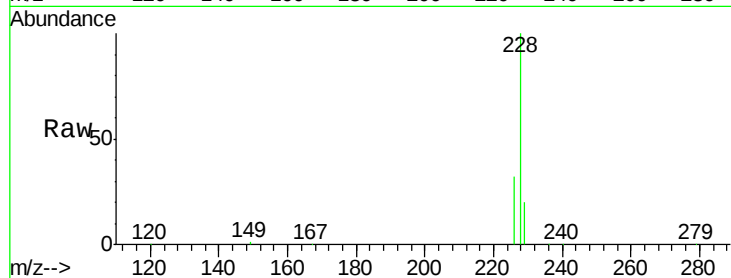
#29
Chrysene
Concen: 9.63 ng
RT: 21.30 min Scan# 1253
Delta R.T. 0.00 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

Instrument :
BNA_M
ClientSampleId :
FM2AMSD

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.8	38.8
229	19.8	14.1	21.1

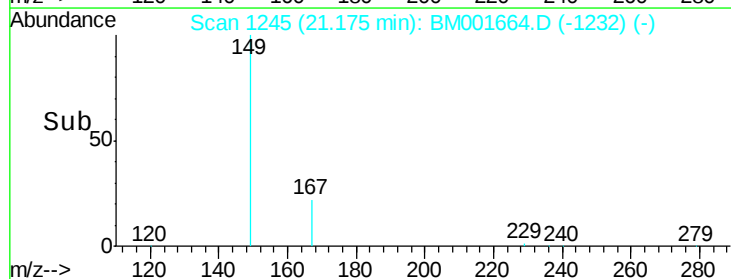
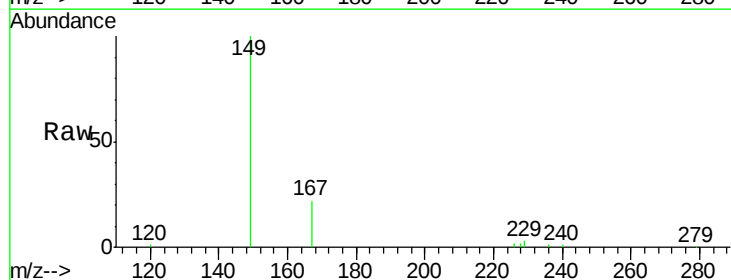
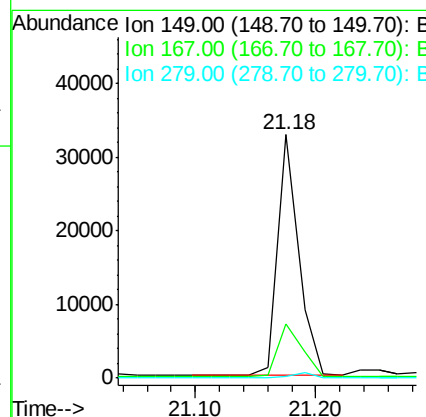
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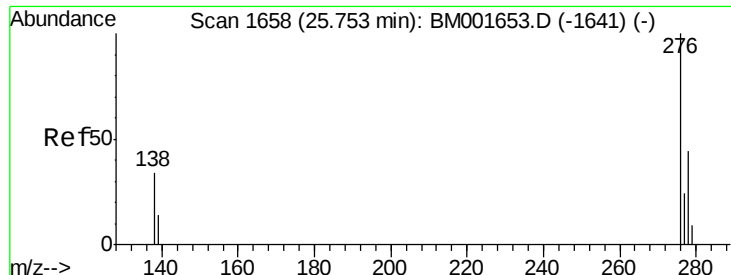
apatel
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#30
Bis(2-ethylhexyl)phthalate
Concen: 2.53 ng
RT: 21.18 min Scan# 1245
Delta R.T. 0.00 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.0	20.2	30.2
279	2.1	1.7	2.5





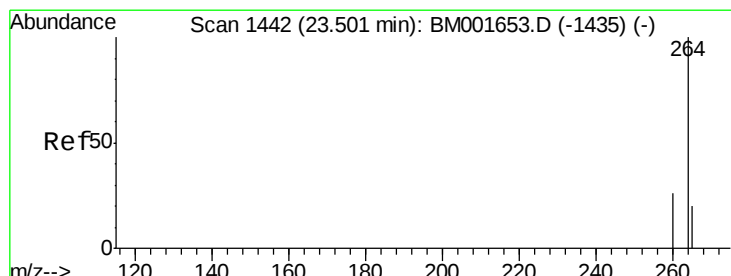
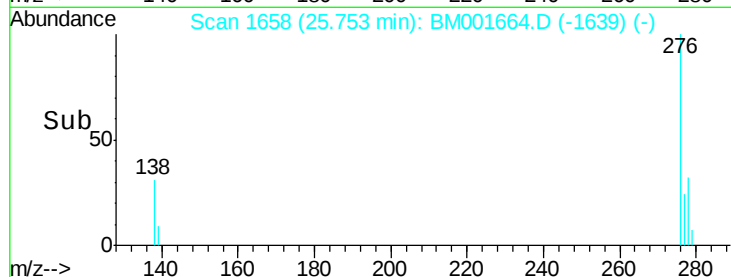
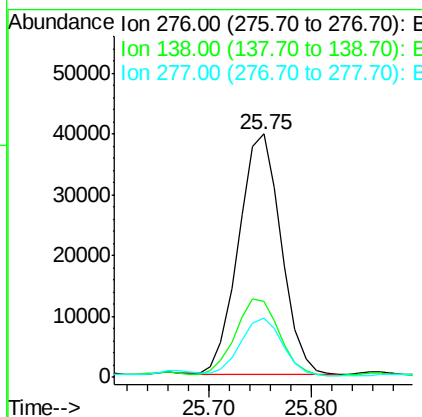
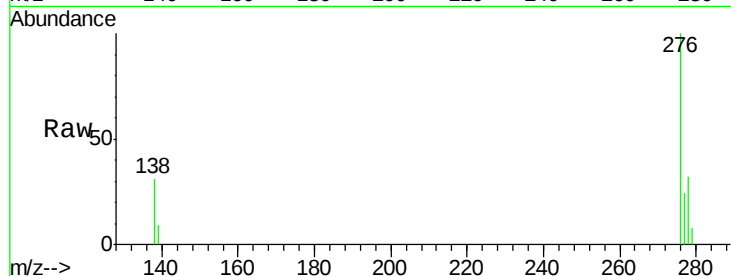
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 6.58 ng
 RT: 25.75 min Scan# 1658
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMSD

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	114707		
138	32.8	28.8	43.2	
277	24.3	19.6	29.4	

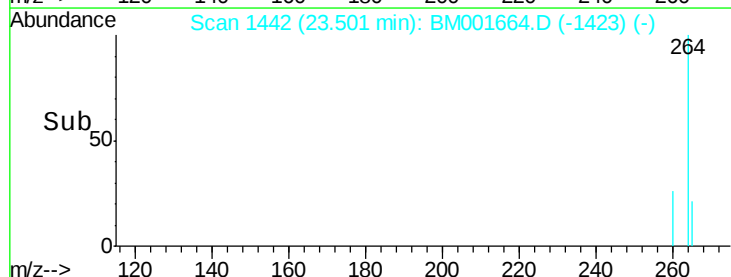
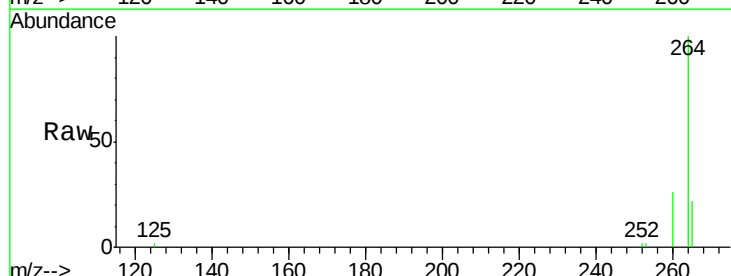
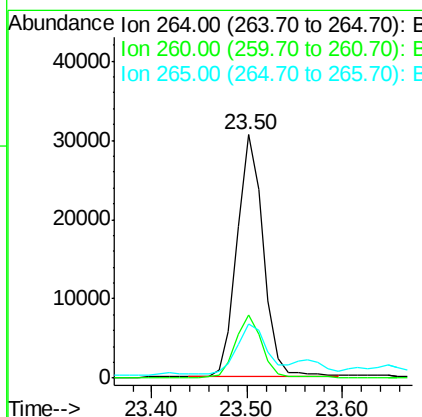
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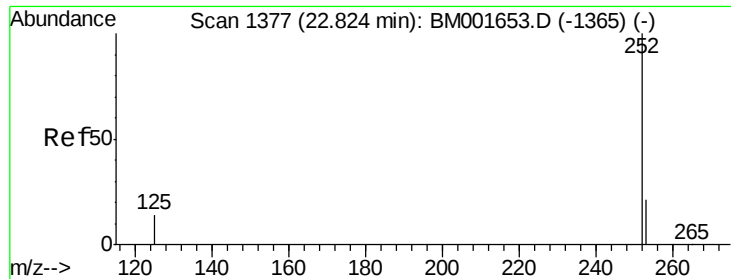
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#32
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.50 min Scan# 1442
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	58728		
260	26.0	20.8	31.2	
265	22.5	16.9	25.3	





#33

Benzo(b)fluoranthene

Concen: 13.52 ng m

RT: 22.83 min Scan# 1378

Delta R.T. 0.01 min

Lab File: BM001664.D

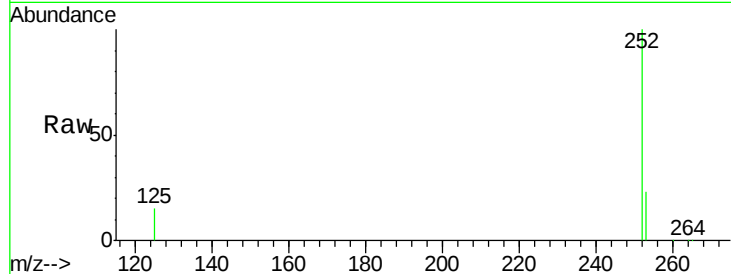
Acq: 12 Jun 2015 06:39

Instrument :

BNA_M

ClientSampleId :

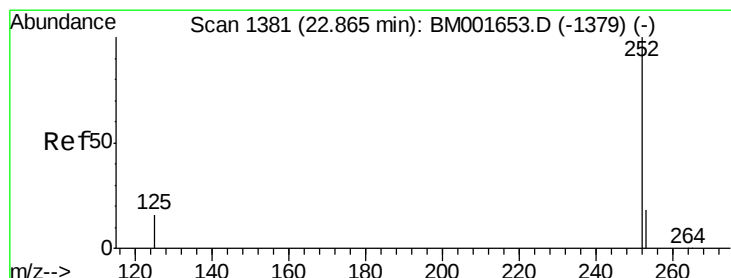
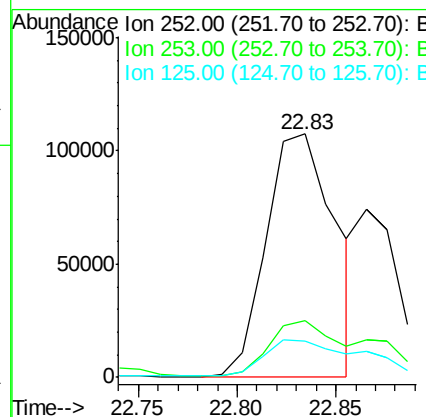
FM2AMSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.2
125	15.1	12.0	18.0

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#34

Benzo(k)fluoranthene

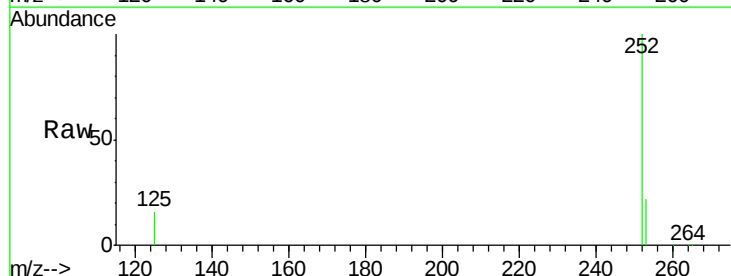
Concen: 5.70 ng m

RT: 22.87 min Scan# 1381

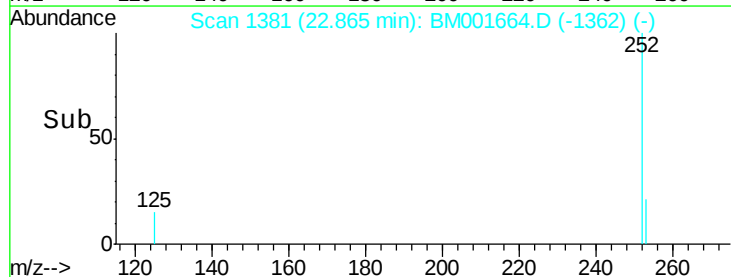
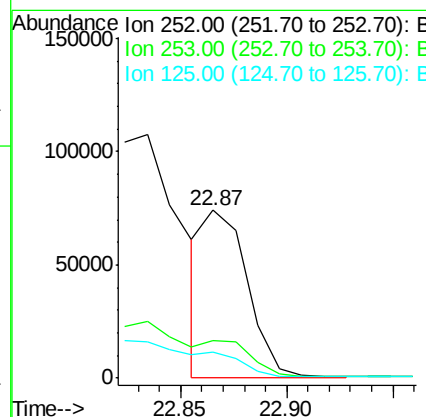
Delta R.T. 0.00 min

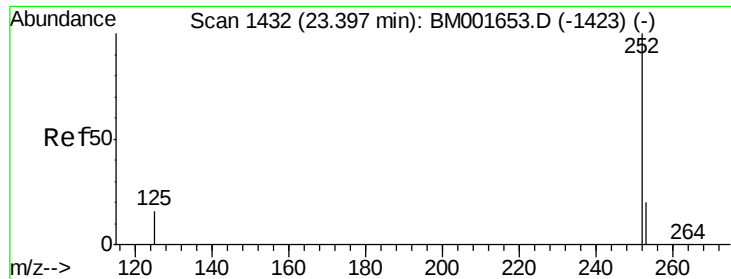
Lab File: BM001664.D

Acq: 12 Jun 2015 06:39



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.6
125	15.7	12.5	18.7





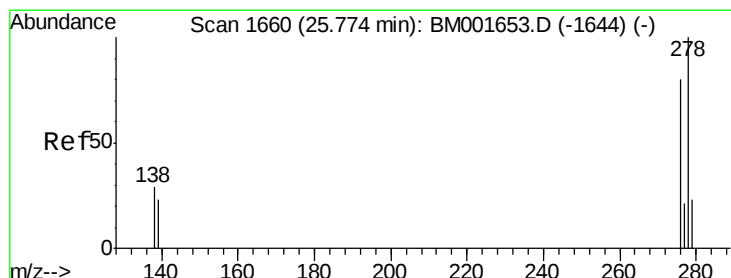
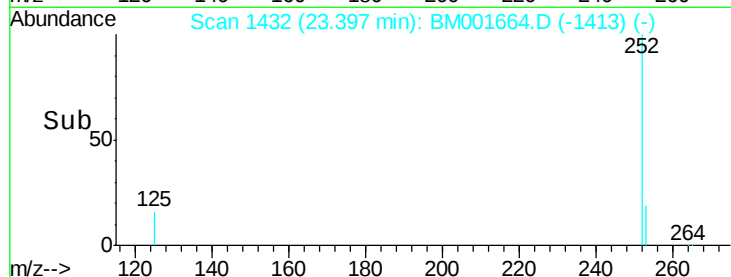
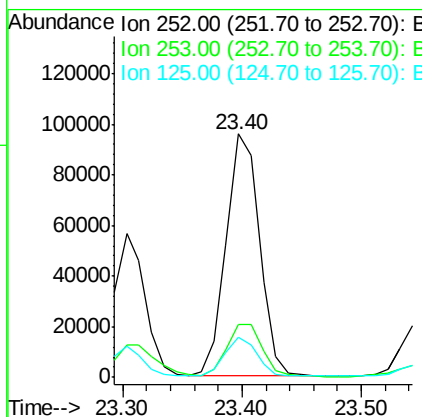
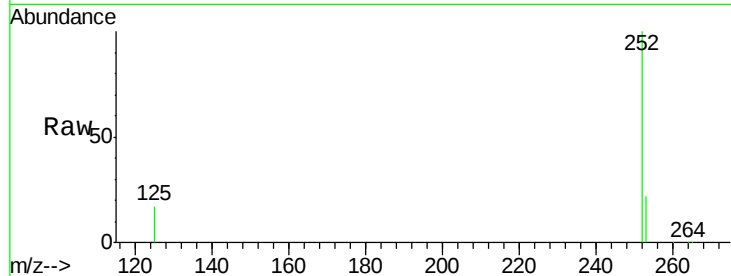
#35
Benzo(a)pyrene
Concen: 11.64 ng
RT: 23.40 min Scan# 1432
Delta R.T. 0.00 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

Instrument :
BNA_M
ClientSampleId :
FM2AMSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0
125	16.7	14.0	21.0

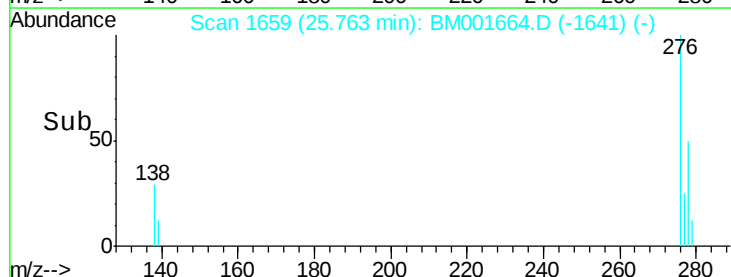
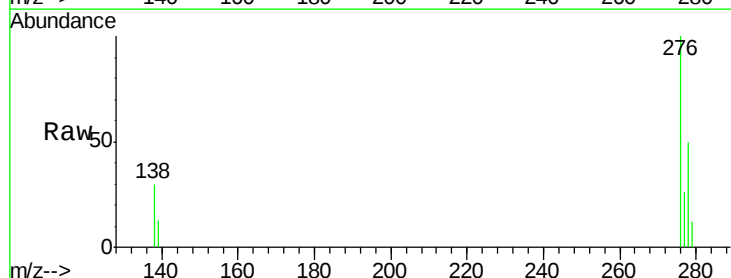
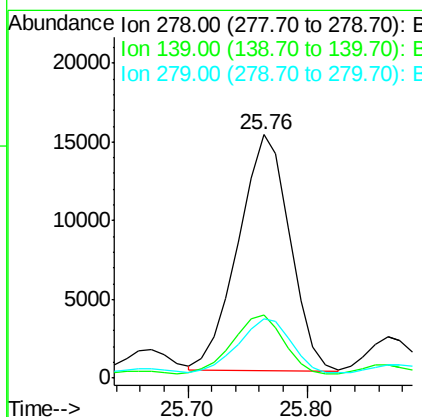
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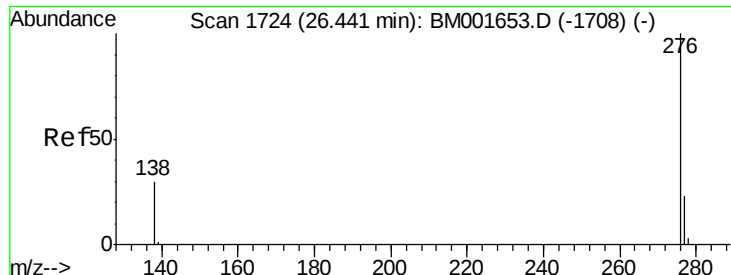
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#36
Dibenzo(a,h)anthracene
Concen: 3.35 ng
RT: 25.76 min Scan# 1659
Delta R.T. -0.01 min
Lab File: BM001664.D
Acq: 12 Jun 2015 06:39

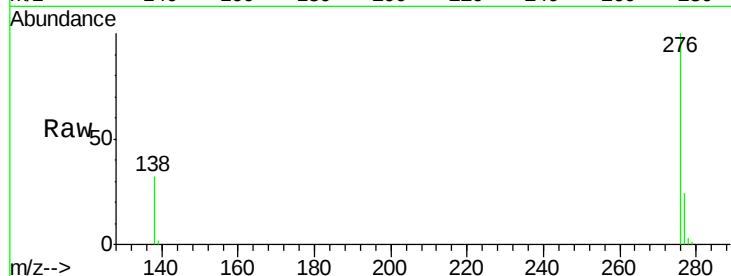
Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.9	19.1	28.7
279	24.5	19.7	29.5





#37
 Benzo(g,h,i)perylene
 Concen: 7.90 ng
 RT: 26.44 min Scan# 1724
 Delta R.T. 0.00 min
 Lab File: BM001664.D
 Acq: 12 Jun 2015 06:39

Instrument :
 BNA_M
 ClientSampleId :
 FM2AMSD



Tgt	Ion	276	Resp	107911
Ion	Ratio	Lower	Upper	
276	100			
277	23.6	19.3	28.9	
138	32.4	25.0	37.4	

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