

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061915\
 Data File : BM001751.D
 Acq On : 18 Jun 2015 23:47
 Operator : TP/IZ
 Sample : PB84083BSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB84083BSD

Manual Integrations
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 6/22/2015 2:46:01 PM

Quant Time: Jun 19 05:17:01 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 19 05:05:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	15630	5.00	ng	0.00
6) Naphthalene-d8	10.46	136	58021	5.00	ng	0.00
12) Acenaphthene-d10	14.32	164	28286	5.00	ng	0.00
18) Phenanthrene-d10	17.06	188	70572	5.00	ng	0.00
25) Chrysene-d12	21.25	240	48654	5.00	ng	0.00
32) Perylene-d12	23.47	264	42758	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	41850	11.45	ng	0.00
5) Phenol-d6	6.83	99	56482	12.01	ng	0.00
7) Nitrobenzene-d5	8.83	82	35416	7.82	ng	0.00
13) 2,4,6-Tribromophenol	15.80	330	12870	14.57	ng	0.00
14) 2-Fluorobiphenyl	12.94	172	72515	7.17	ng	0.00
27) Terphenyl-d14	19.70	244	50177	7.00	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.18	88	12004	6.74	ng	95
3) n-Nitrosodimethylamine	3.48	42	20672	7.51	ng	98
8) Nitrobenzene	8.86	77	39794	8.17	ng	98
9) Naphthalene	10.49	128	99406	7.01	ng	98
10) Hexachlorobutadiene	10.78	225	16888	7.08	ng	99
11) 2-Methylnaphthalene	12.12	142	66435	7.36	ng	99
15) Acenaphthylene	14.03	152	107834	8.02	ng	99
16) Acenaphthene	14.37	154	63236	7.51	ng	97
17) Fluorene	15.36	166	61686	8.55	ng	97
19) 4-Bromophenyl-phenylether	16.24	248	25394	8.77	ng	# 82
20) Hexachlorobenzene	16.38	284	13330	6.70	ng	# 100
21) Pentachlorophenol	16.72	266	146326	165.28	ng	94
22) Phenanthrene	17.09	178	173676	7.18	ng	98
23) Anthracene	17.19	178	78411m	7.68	ng	
24) Fluoranthene	19.12	202	124132	8.14	ng	100
26) Pyrene	19.48	202	136025	8.03	ng	99
28) Benzo(a)anthracene	21.22	228	113179m	7.72	ng	
29) Chrysene	21.28	228	109430	7.10	ng	95
30) Bis(2-ethylhexyl)phthalate	21.16	149	84818	10.03	ng	98
31) Indeno(1,2,3-cd)pyrene	25.70	276	112770	7.61	ng	99
33) Benzo(b)fluoranthene	22.79	252	105064	7.49	ng	95
34) Benzo(k)fluoranthene	22.83	252	103506	8.24	ng	96
35) Benzo(a)pyrene	23.37	252	98762	8.36	ng	97
36) Dibenzo(a,h)anthracene	25.71	278	91731	7.84	ng	96
37) Benzo(g,h,i)perylene	26.39	276	94483	7.68	ng	98

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

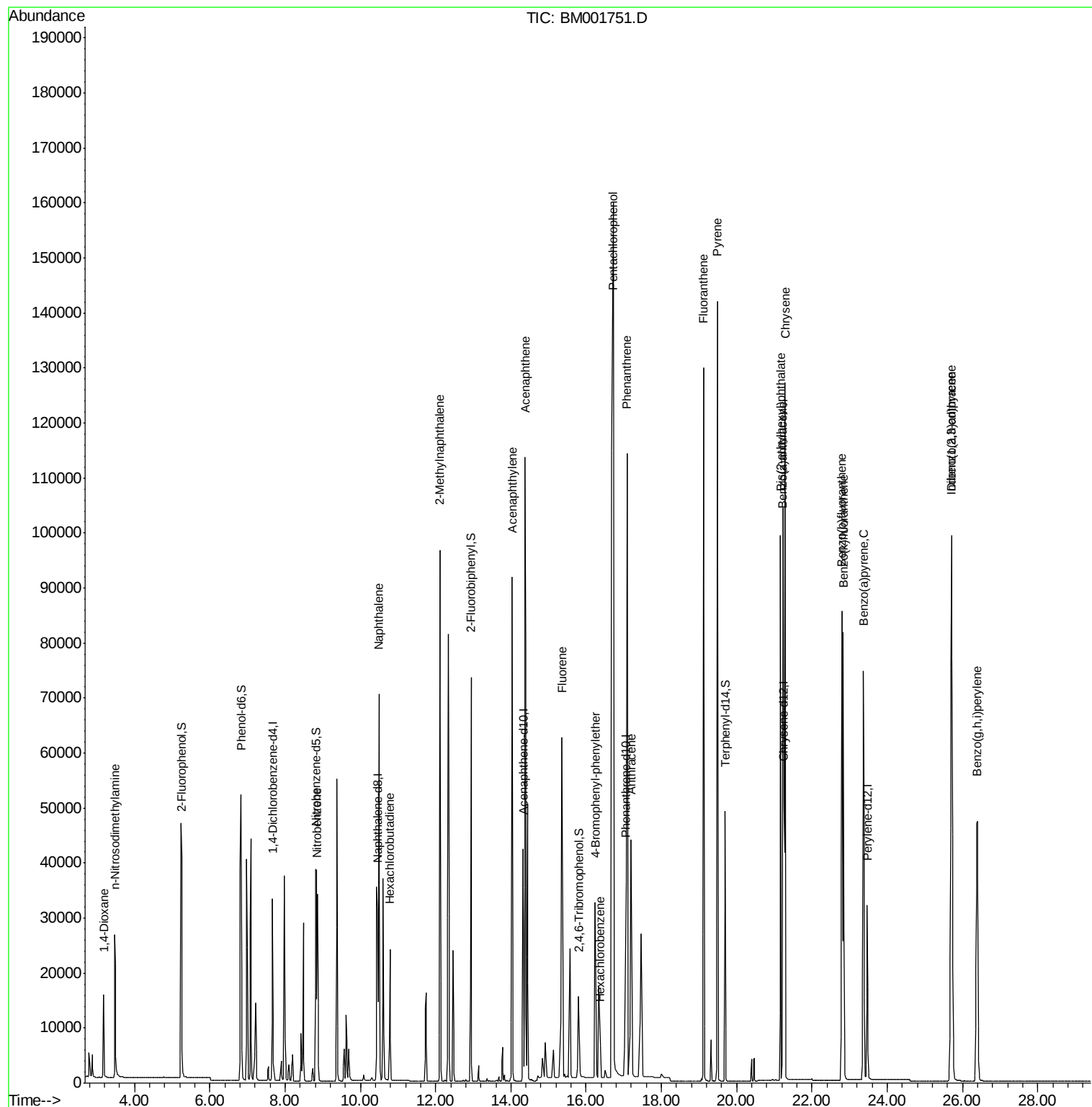
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061915\
Data File : BM001751.D
Acq On : 18 Jun 2015 23:47
Operator : TP/IZ
Sample : PB84083BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

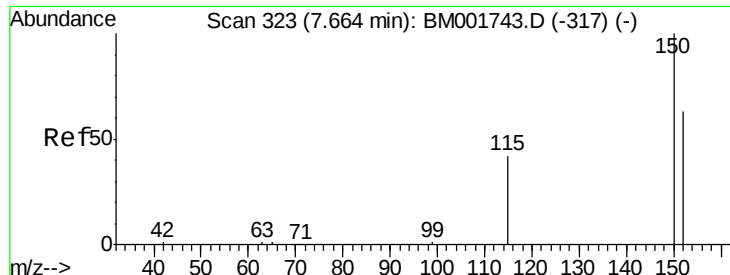
Instrument :
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Quant Time: Jun 19 05:17:01 2015
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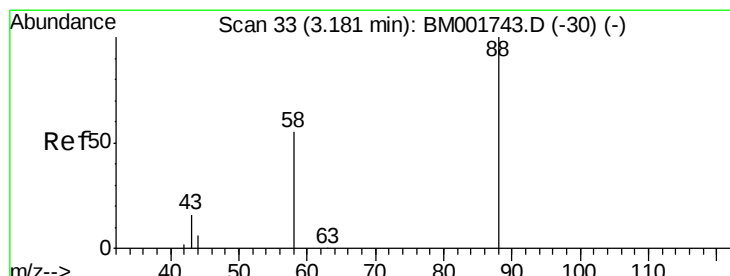
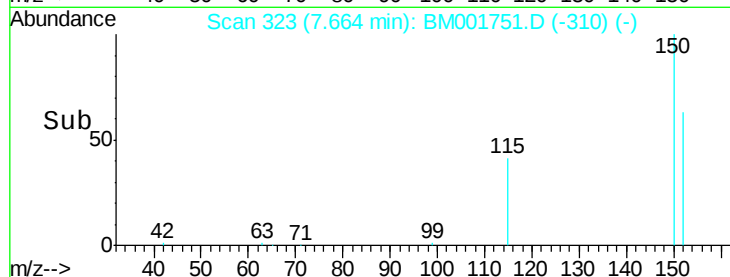
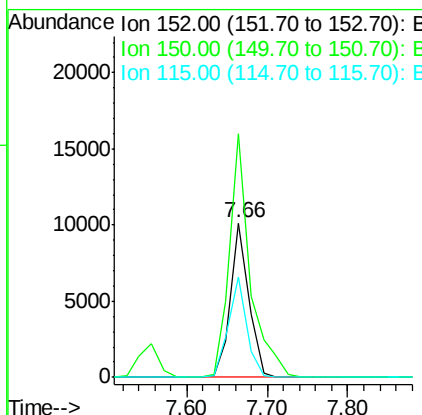
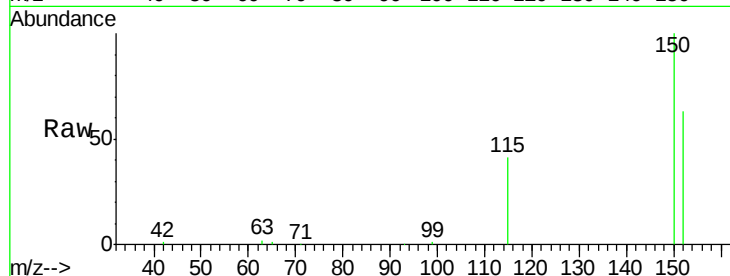
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.66 min Scan# 323
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Instrument :
 BNA_M
 ClientSampleId :
 PB84083BSD

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.6	127.5	191.3
115	64.6	53.2	79.8

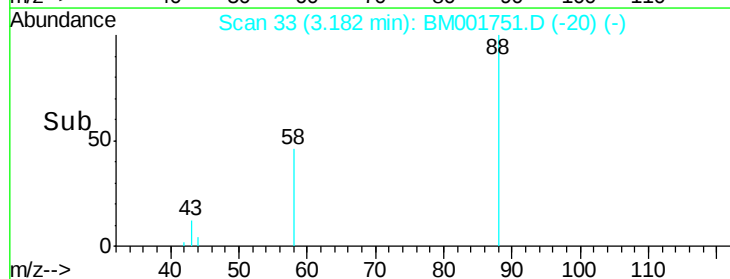
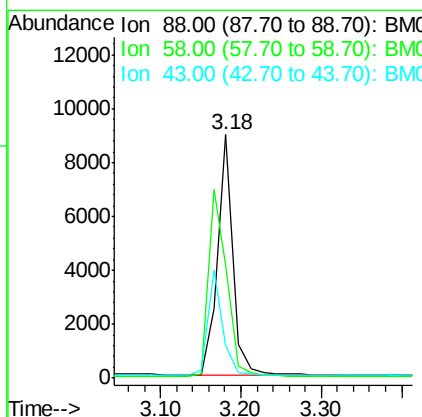
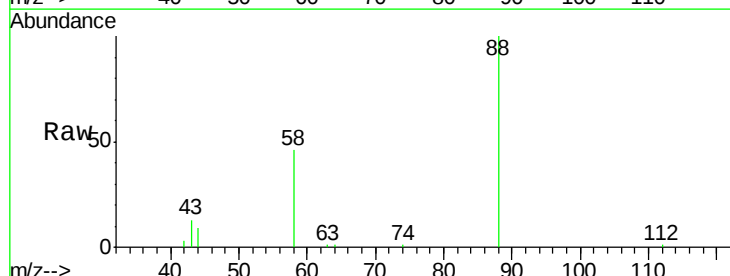
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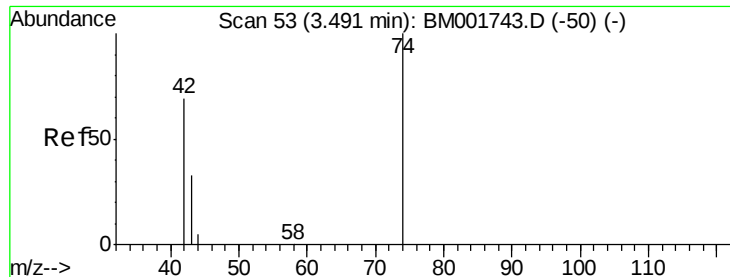
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#2
 1,4-Dioxane
 Concen: 6.74 ng
 RT: 3.18 min Scan# 33
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Lower	Upper
88	100		
58	91.7	68.3	102.5
43	41.9	32.6	48.8





#3

n-Nitrosodimethylamine

Concen: 7.51 ng

RT: 3.48 min Scan# 52

Delta R.T. -0.02 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

ClientSampleId :

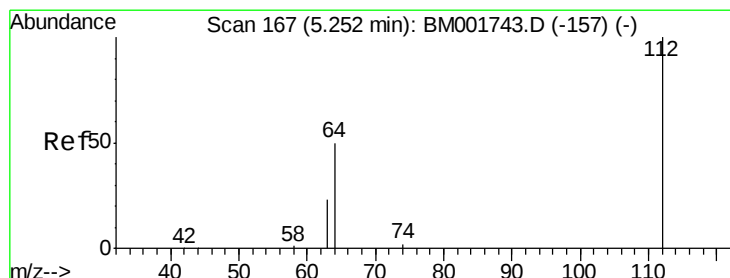
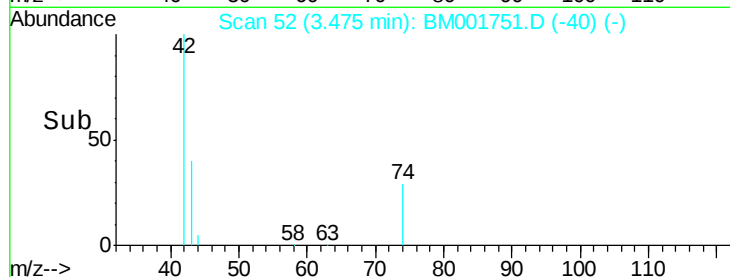
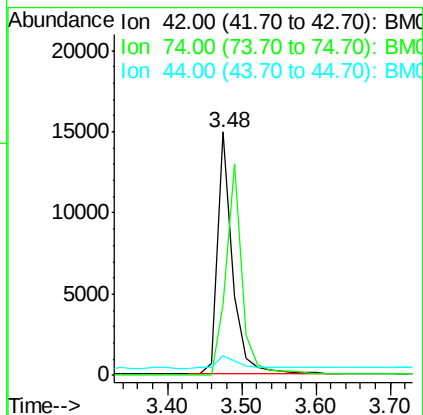
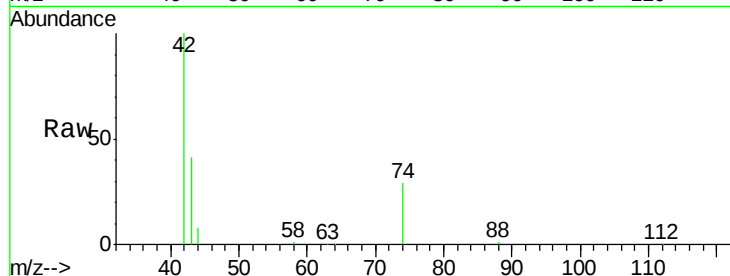
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Tgt Ion:	42	Resp:	20672
Ion Ratio	Lower	Upper	
42	100		
74	96.0	78.6	118.0
44	6.4	5.0	7.6



#4

2-Fluorophenol

Concen: 11.45 ng

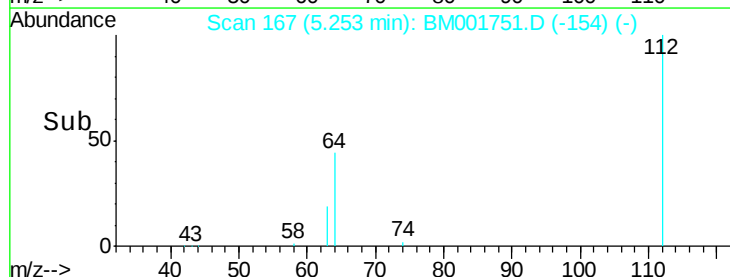
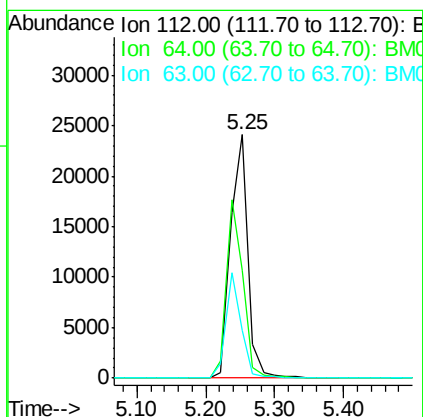
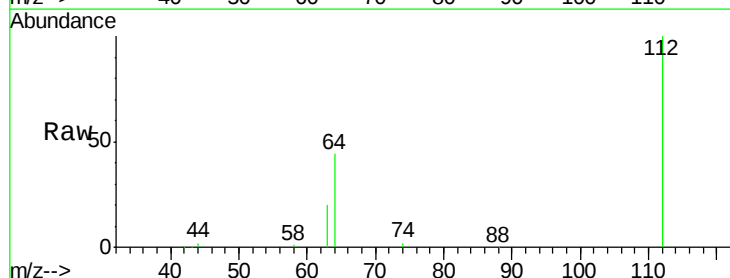
RT: 5.25 min Scan# 167

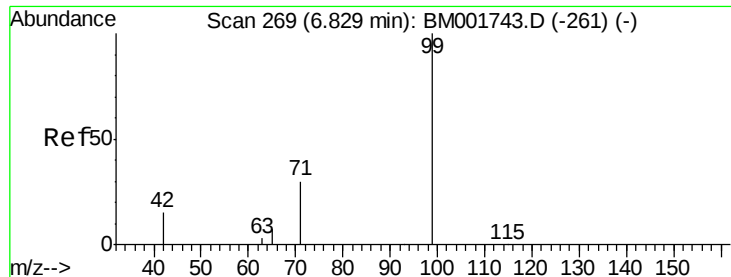
Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion:	112	Resp:	41850
Ion Ratio	Lower	Upper	
112	100		
64	69.7	55.6	83.4
63	38.1	30.2	45.2





#5

Phenol-d6

Concen: 12.01 ng

RT: 6.83 min Scan# 269

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

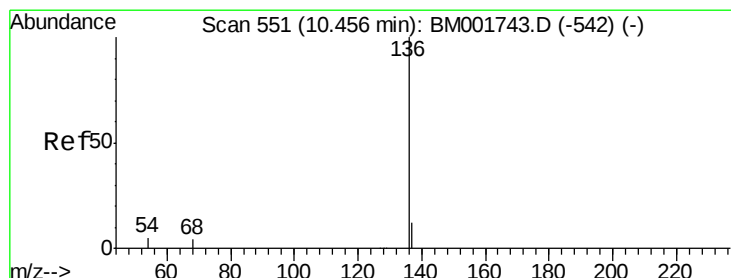
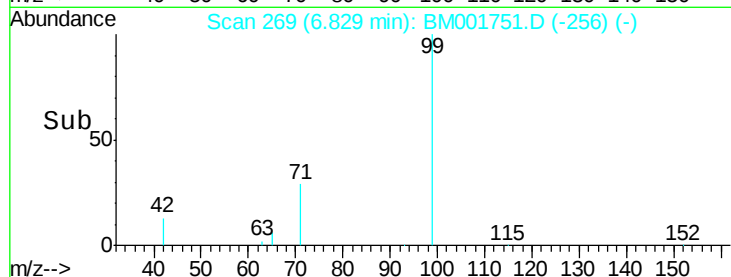
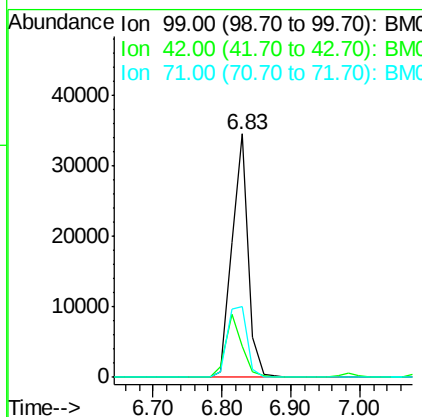
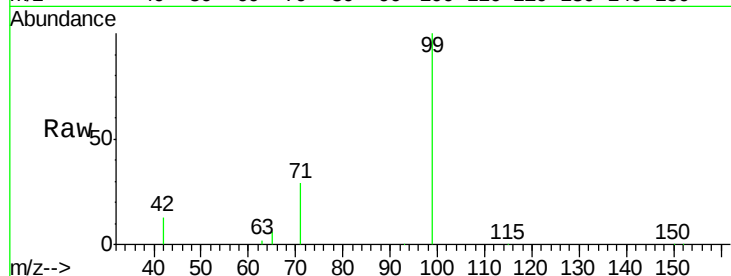
ClientSampleId :

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Tgt Ion:	99	Resp:	56482
Ion Ratio	Lower	Upper	
99	100		
42	26.0	21.4	32.0
71	35.5	28.3	42.5

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#6

Naphthalene-d8

Concen: 5.00 ng

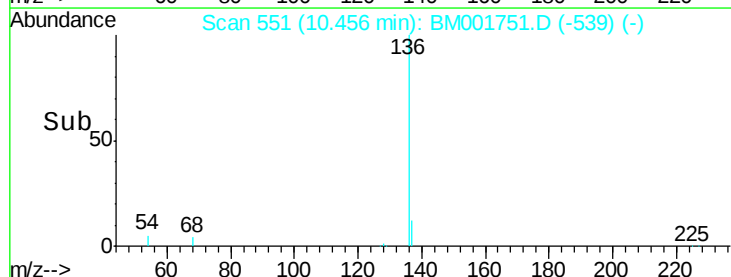
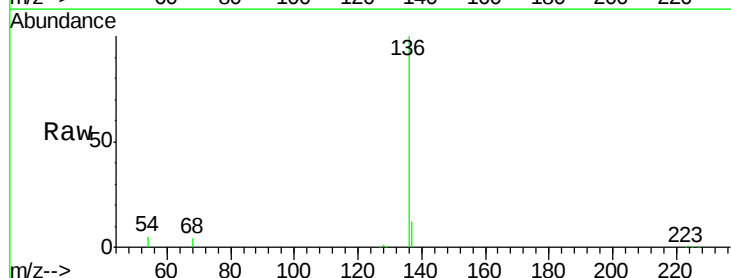
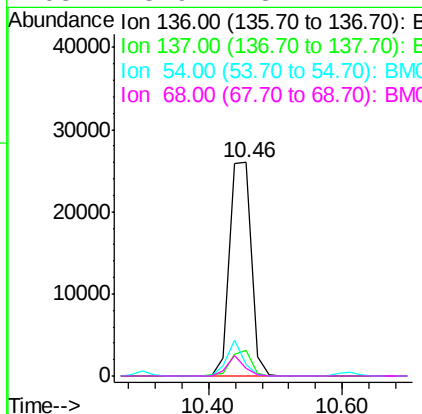
RT: 10.46 min Scan# 551

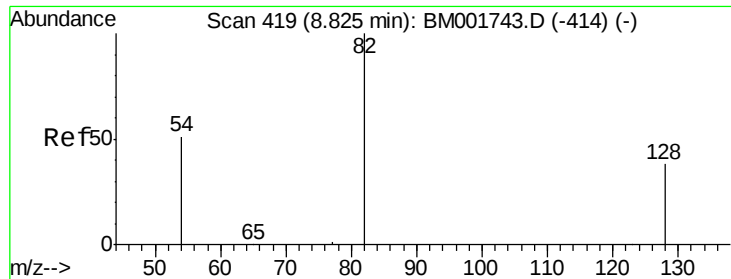
Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion:	136	Resp:	58021
Ion Ratio	Lower	Upper	
136	100		
137	11.8	9.4	14.0
54	5.3	4.4	6.6
68	3.9	3.1	4.7





#7

Nitrobenzene-d5

Concen: 7.82 ng

RT: 8.83 min Scan# 419

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

ClientSampleId :

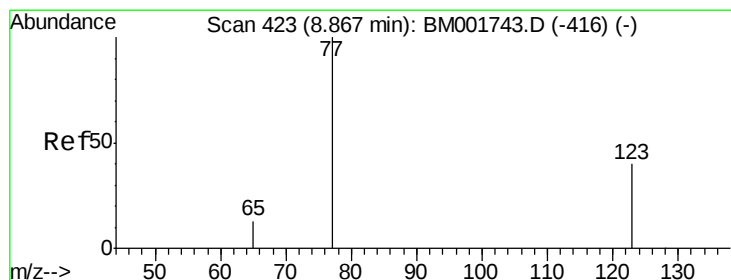
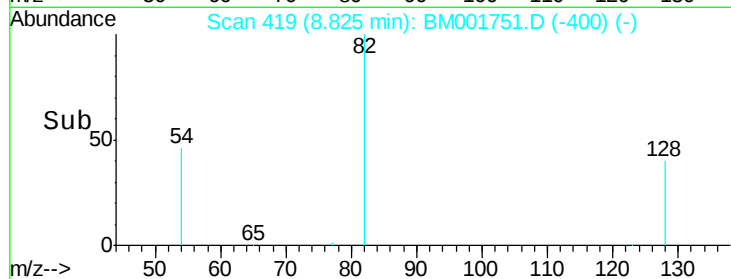
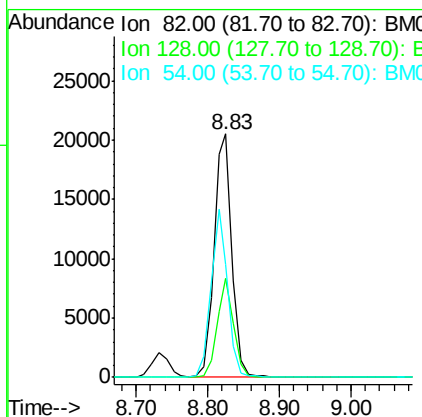
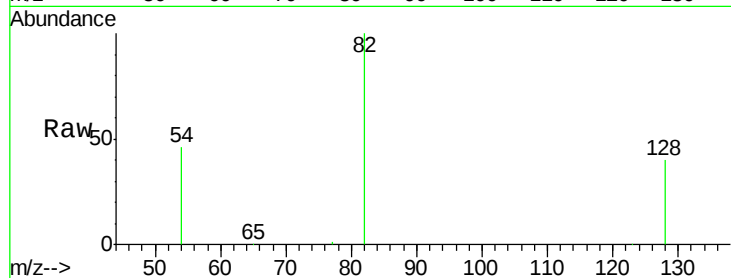
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Tgt Ion:	82	Resp:	35416
Ion Ratio	Lower	Upper	
82	100		
128	40.4	31.3	46.9
54	46.5	41.9	62.9



#8

Nitrobenzene

Concen: 8.17 ng

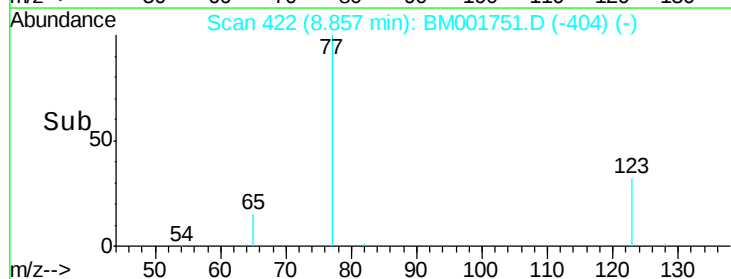
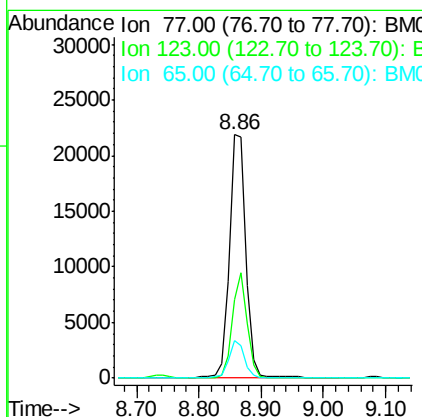
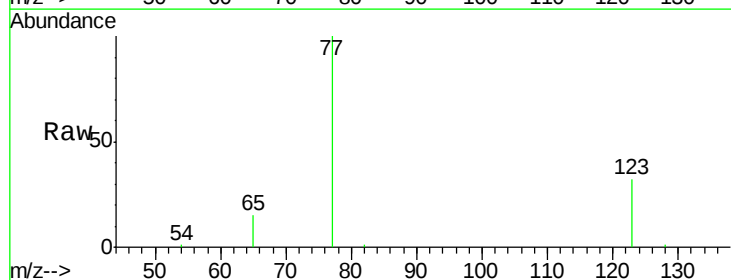
RT: 8.86 min Scan# 422

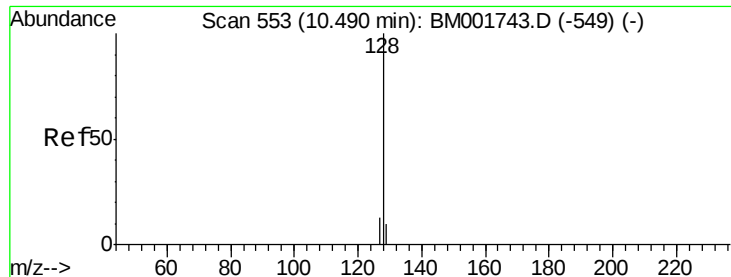
Delta R.T. -0.01 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion:	77	Resp:	39794
Ion Ratio	Lower	Upper	
77	100		
123	39.1	30.1	45.1
65	14.3	11.3	16.9





#9

Naphthalene

Concen: 7.01 ng

RT: 10.49 min Scan# 553

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

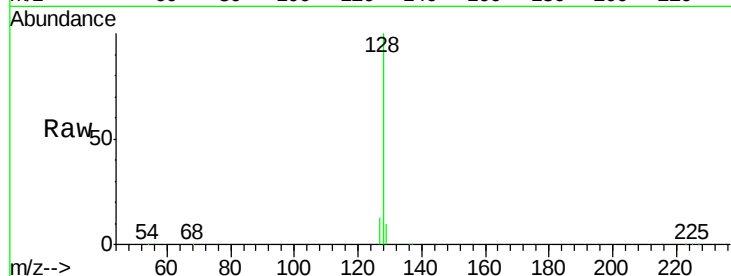
ClientSampleId :

PB84083BSD

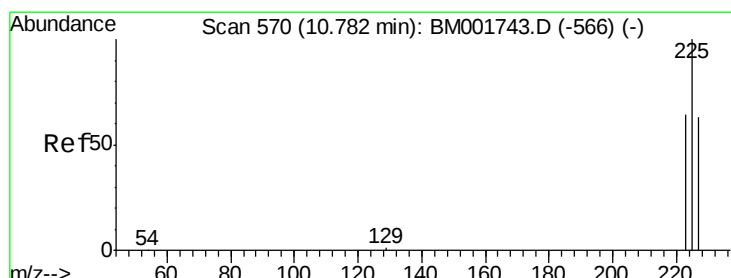
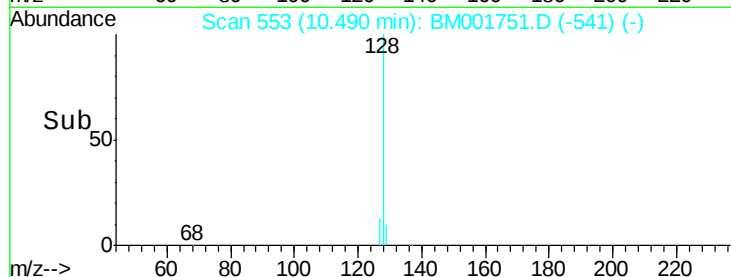
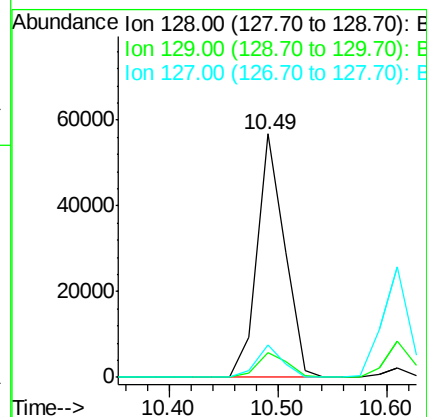
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.7	13.1
127	13.4	11.2	16.8



#10

Hexachlorobutadiene

Concen: 7.08 ng

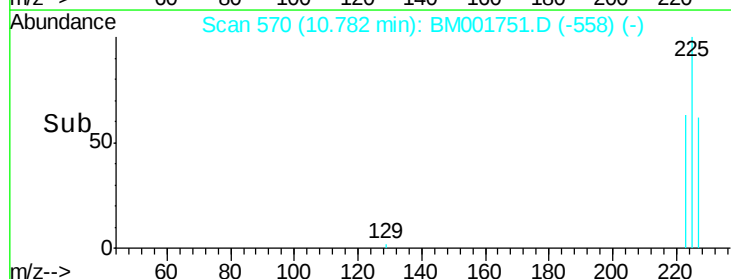
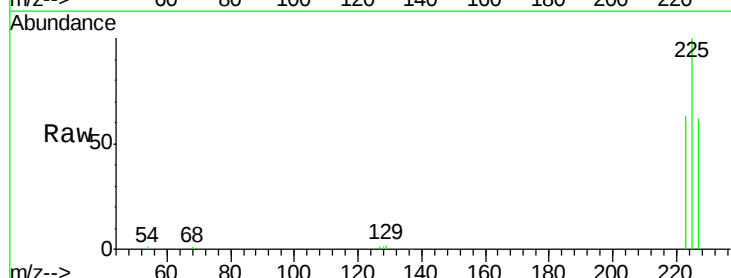
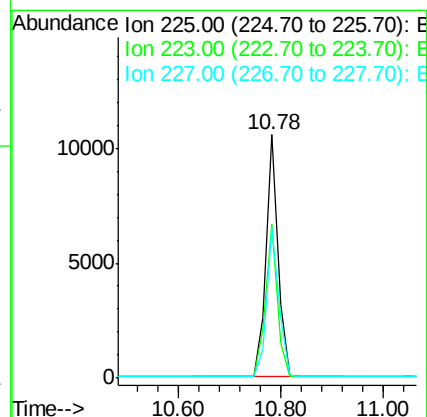
RT: 10.78 min Scan# 570

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.0	76.4
227	63.4	51.8	77.8





#11

2-Methylnaphthalene

Concen: 7.36 ng

RT: 12.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: BM001751.D

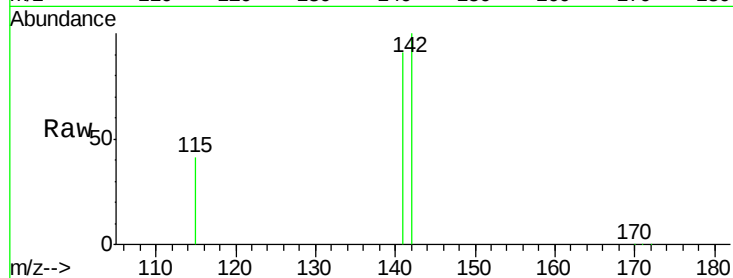
Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

ClientSampleID :

PB84083BSD



Tgt Ion:142 Resp: 66435

Ion Ratio Lower Upper

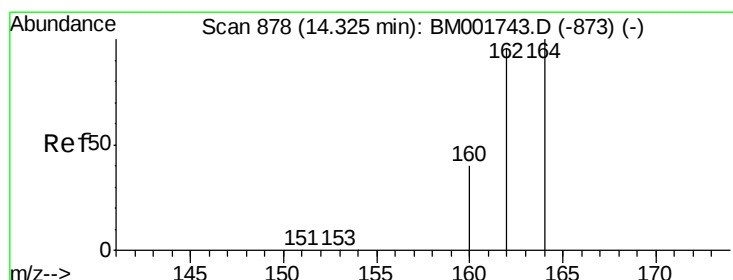
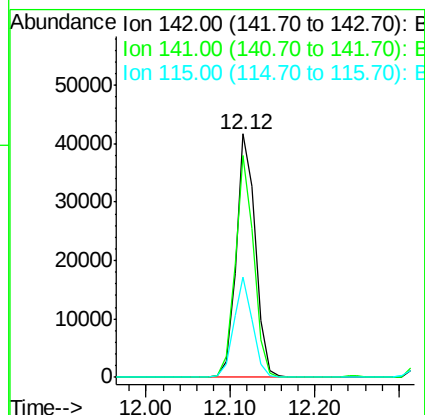
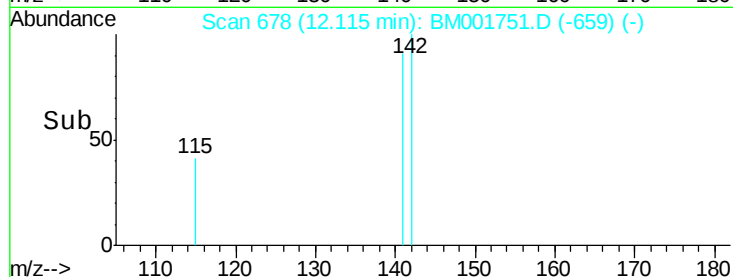
142 100

141 91.1 73.6 110.4

115 41.0 34.1 51.1

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.32 min Scan# 878

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

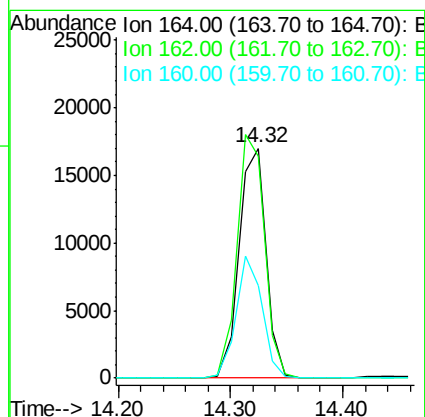
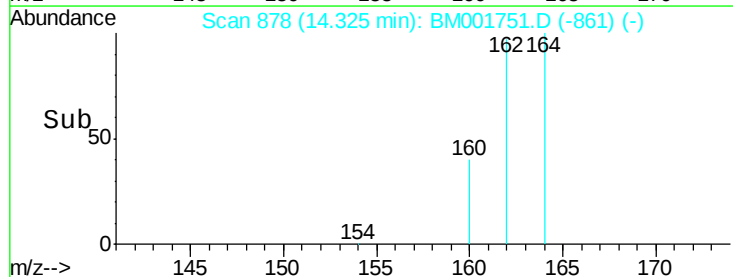
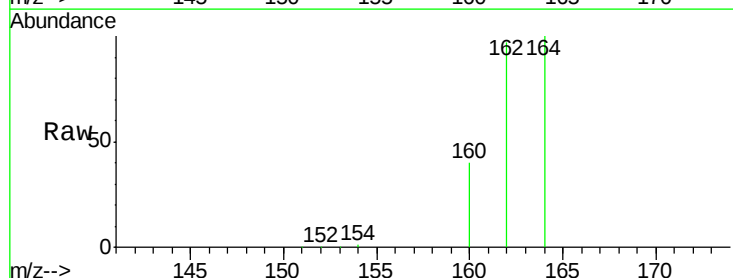
Tgt Ion:164 Resp: 28286

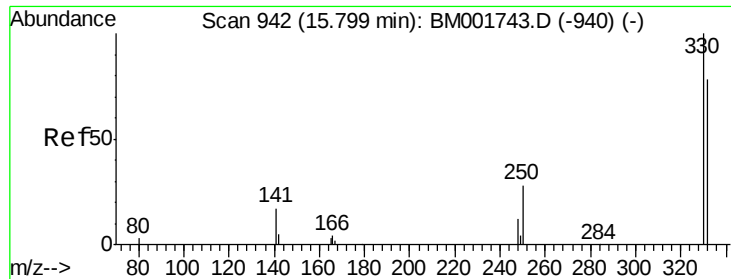
Ion Ratio Lower Upper

164 100

162 96.8 76.6 114.8

160 40.5 31.8 47.8





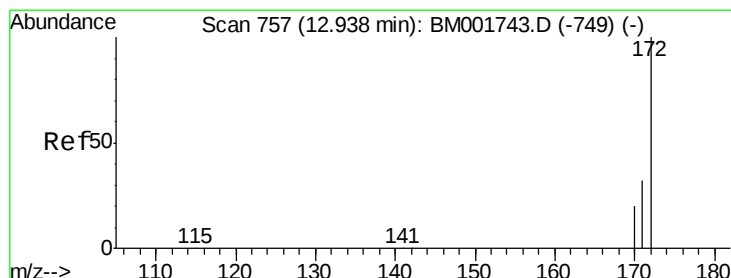
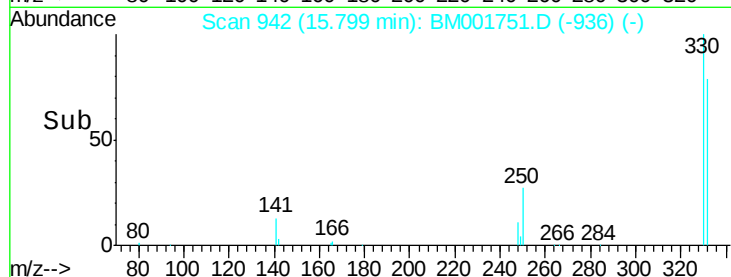
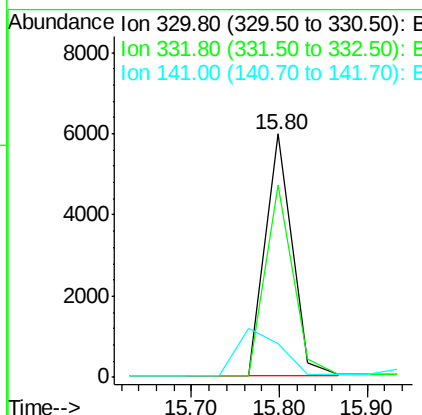
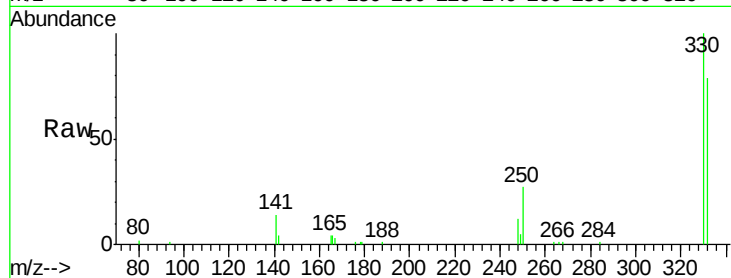
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 2,4,6-Tribromophenol
 Concen: 14.57 ng
 RT: 15.80 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Instrument :
 BNA_M
 ClientSampleId :
 PB84083BSD

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	12870		
332	81.6	65.8	98.8	
141	0.0	0.0	0.0	

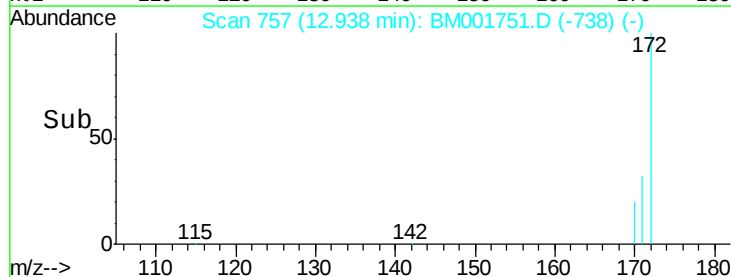
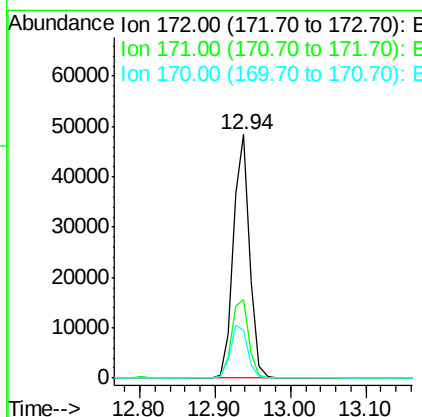
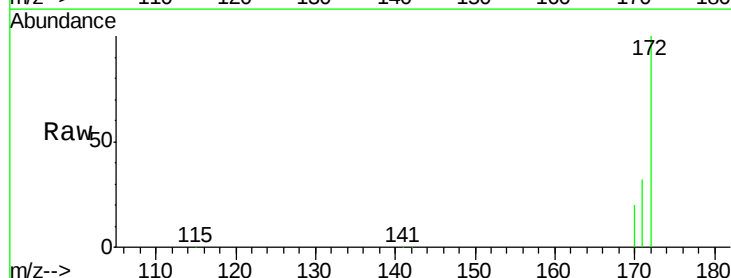
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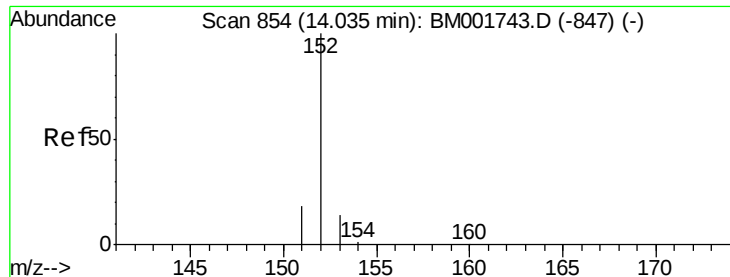
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#14
 2-Fluorobiphenyl
 Concen: 7.17 ng
 RT: 12.94 min Scan# 757
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	72515		
171	32.1	26.2	39.2	
170	19.8	16.6	24.8	





#15

Acenaphthylene

Concen: 8.02 ng

RT: 14.03 min Scan# 854

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

ClientSampleId :

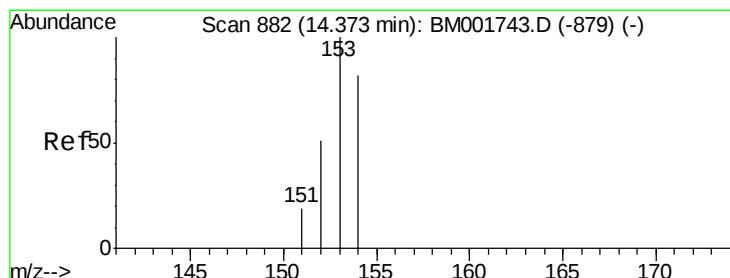
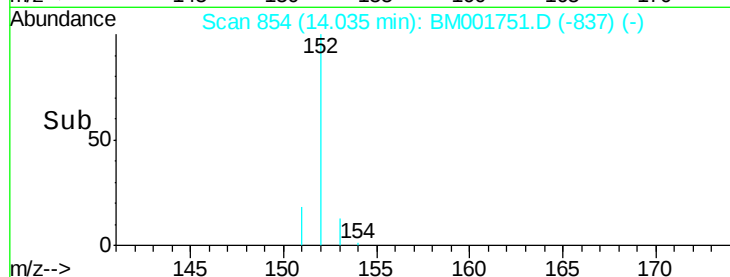
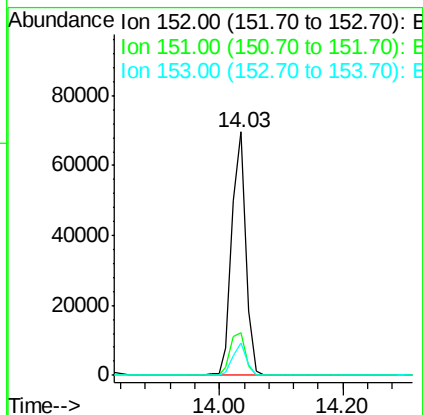
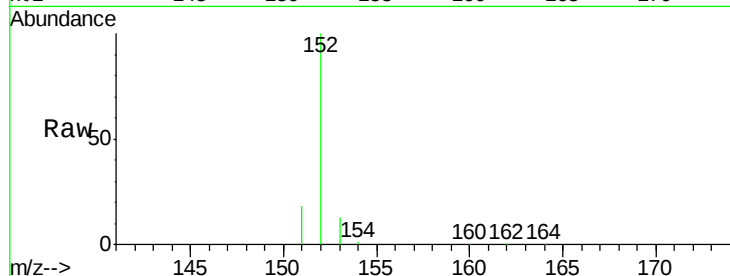
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Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.4	23.2
153	12.8	10.4	15.6



#16

Acenaphthene

Concen: 7.51 ng

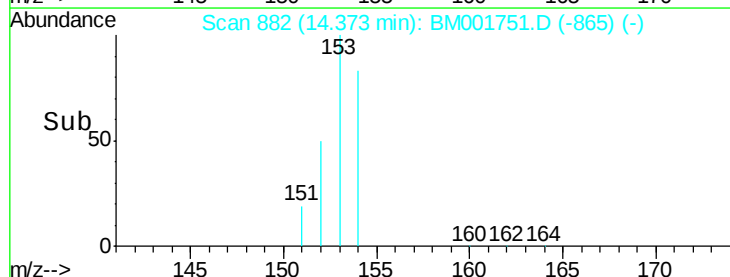
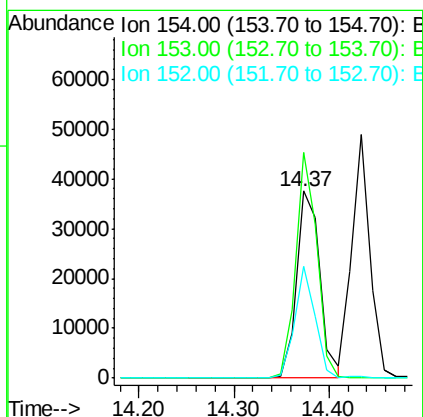
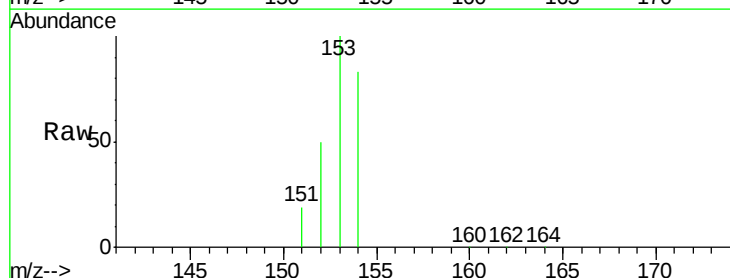
RT: 14.37 min Scan# 882

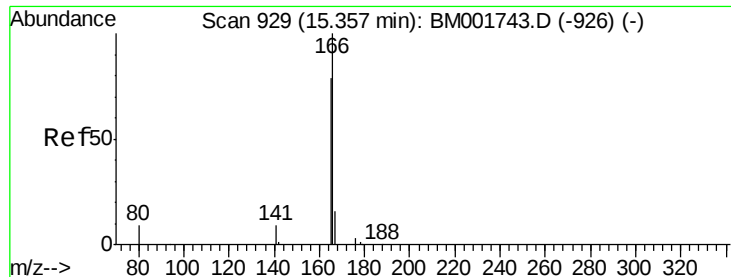
Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

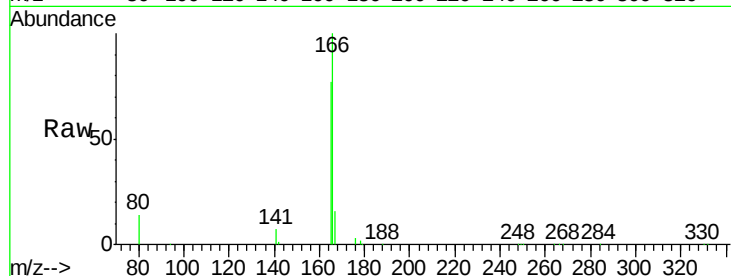
Tgt Ion	Ratio	Lower	Upper
154	100		
153	109.4	90.0	135.0
152	52.9	44.2	66.4





#17
Fluorene
 Concen: 8.55 ng
 RT: 15.36 min Scan# 929
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

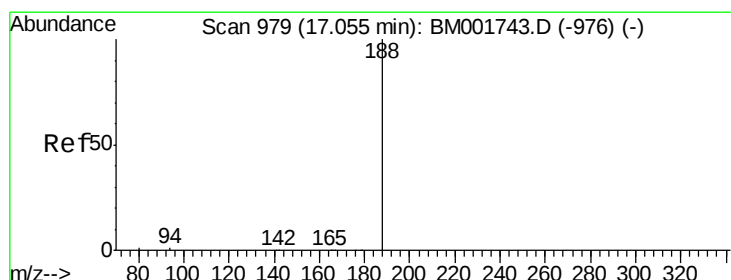
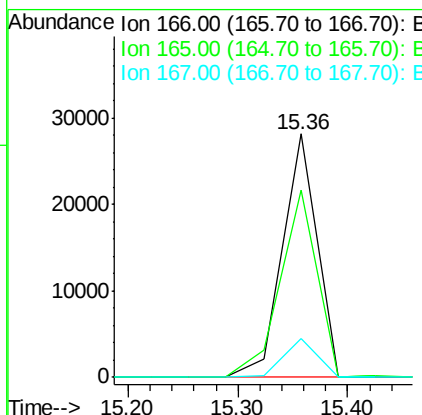
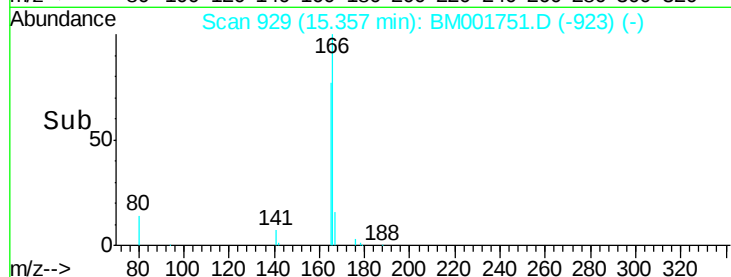
Instrument :
 BNA_M
 ClientSampleId :
 PB84083BSD



Tgt Ion	Ratio	Lower	Upper
166	100		
165	82.0	68.2	102.2
167	15.3	12.2	18.2

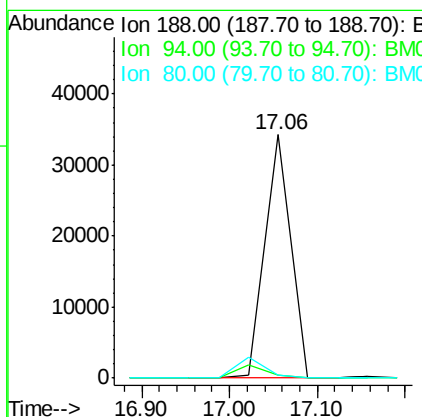
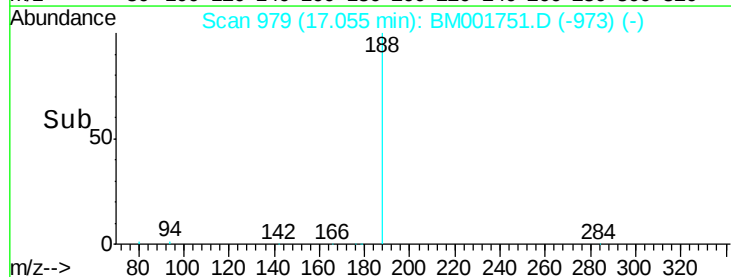
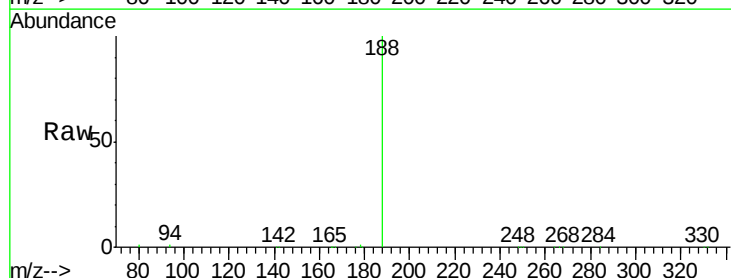
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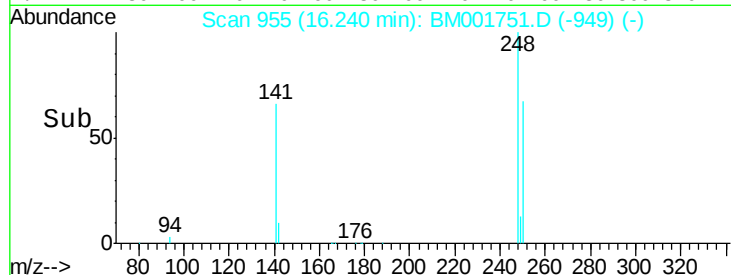
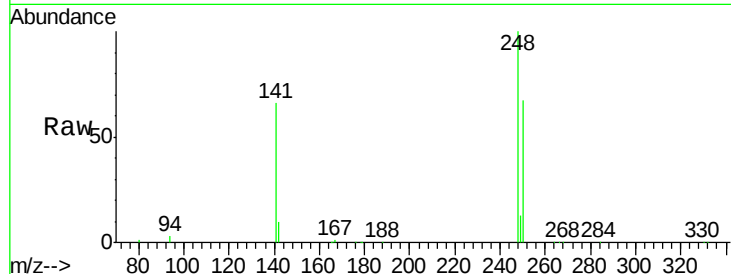
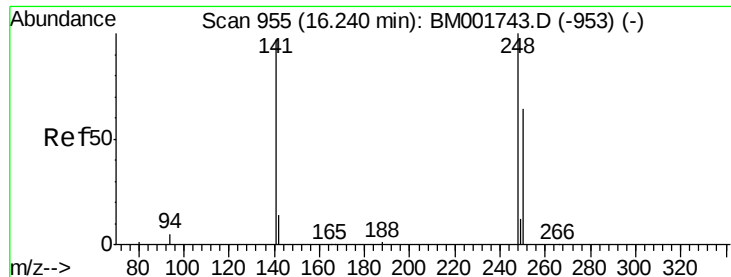
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#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.06 min Scan# 979
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	1.4	1.3	1.9
80	1.2	1.0	1.6





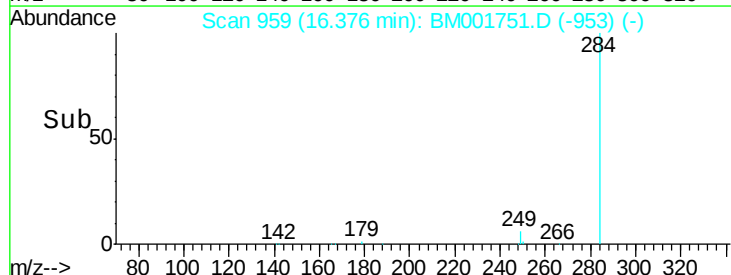
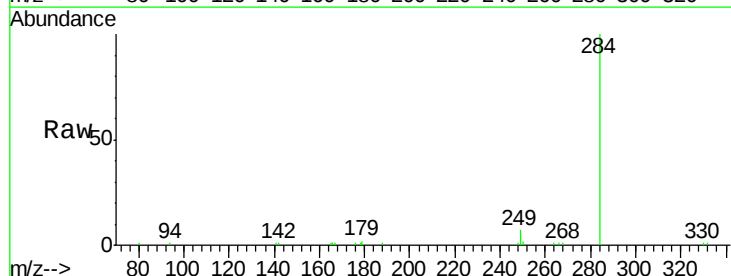
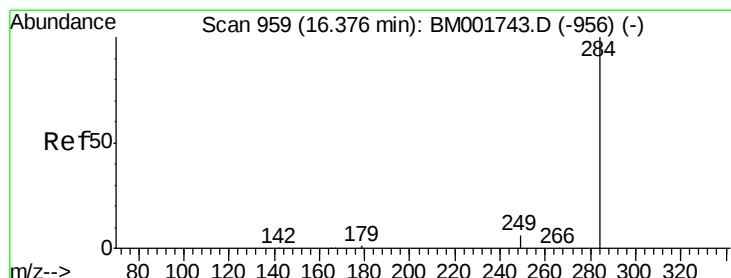
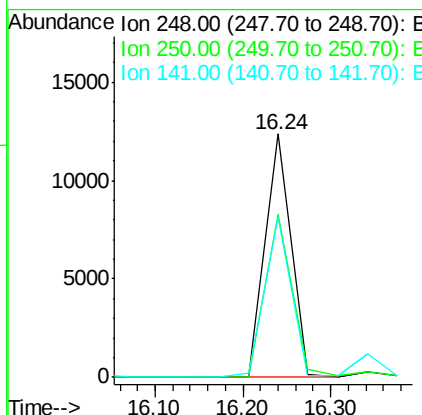
#19
4-Bromophenyl-phenylether
Concen: 8.77 ng
RT: 16.24 min Scan# 955
Delta R.T. 0.00 min
Lab File: BM001751.D
Acq: 18 Jun 2015 23:47

Instrument :
BNA_M
ClientSampleId :
PB84083BSD

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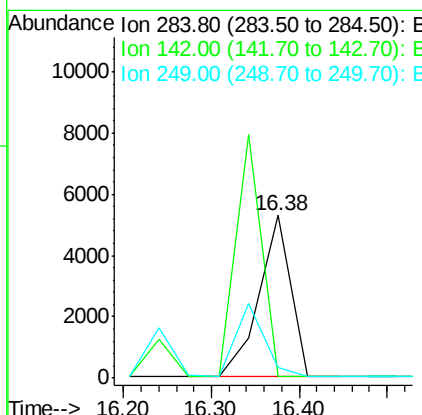
apatel
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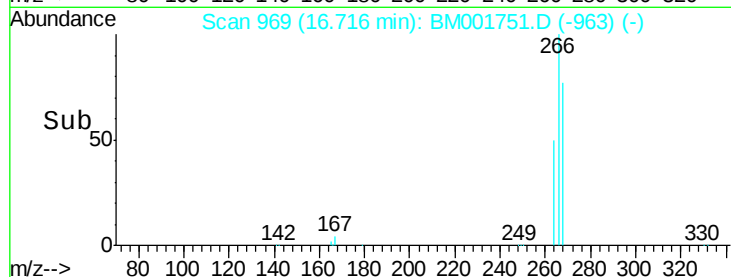
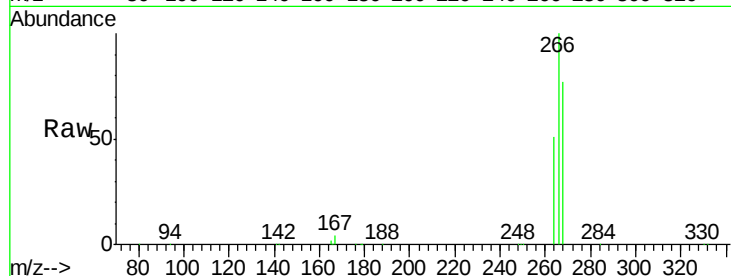
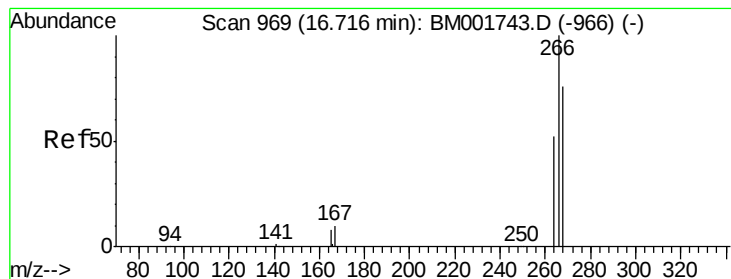
Tgt Ion	Ratio	Lower	Upper
248	100		
250	69.0	54.8	82.2
141	66.4	76.2	114.4



#20
Hexachlorobenzene
Concen: 6.70 ng
RT: 16.38 min Scan# 959
Delta R.T. 0.00 min
Lab File: BM001751.D
Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	0.0	0.0	0.0
249	0.0	0.0	0.0





#21

Pentachlorophenol

Concen: 165.28 ng

RT: 16.72 min Scan# 969

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion:	266	Resp:	146326
Ion Ratio	Lower	Upper	
266	100		
268	76.8	63.2	94.8
264	50.5	46.2	69.2

Instrument :

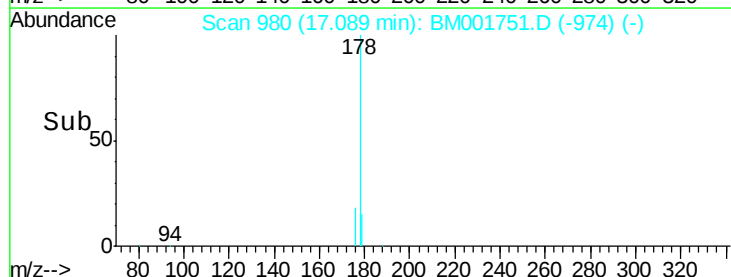
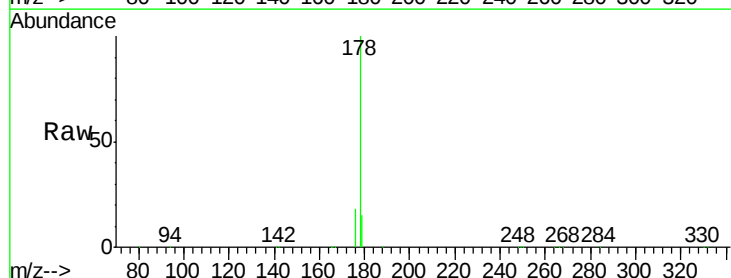
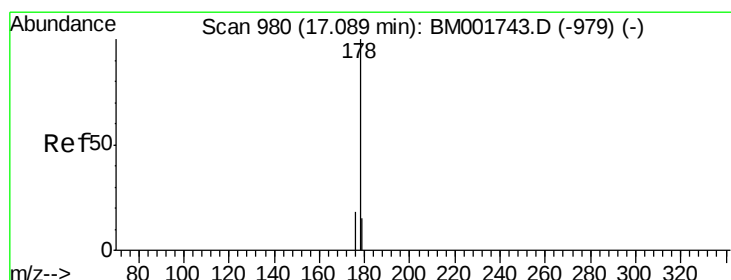
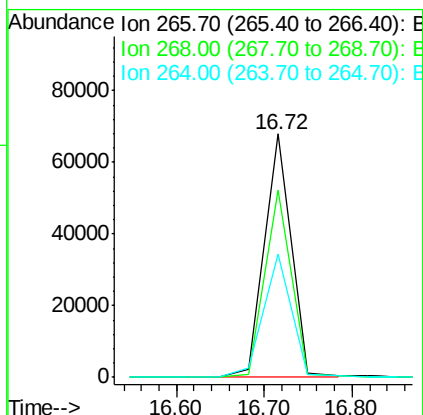
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ClientSampleId :

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#22

Phenanthrene

Concen: 7.18 ng

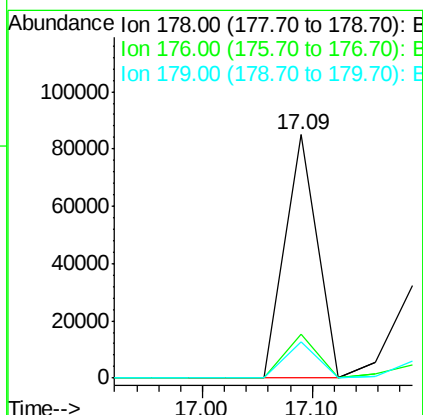
RT: 17.09 min Scan# 980

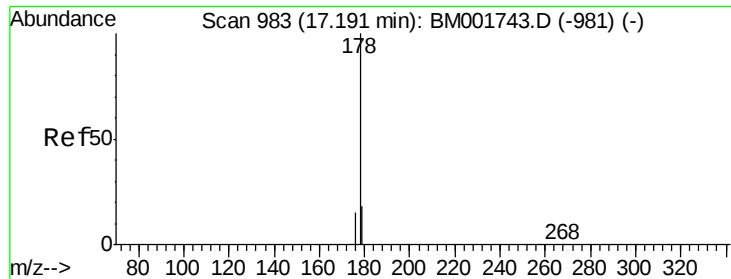
Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion:	178	Resp:	173676
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.4	23.2
179	15.0	12.6	19.0





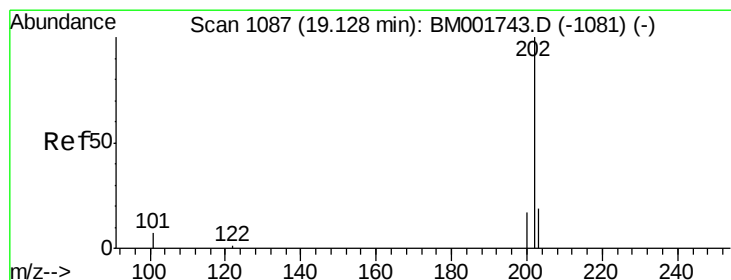
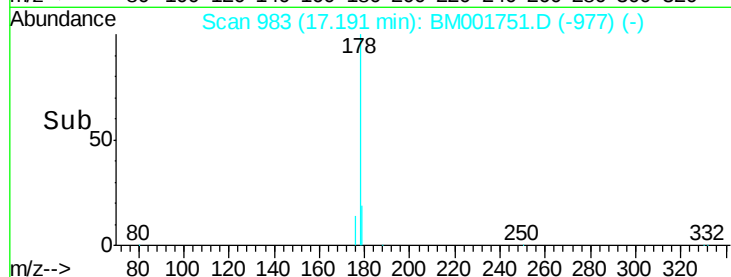
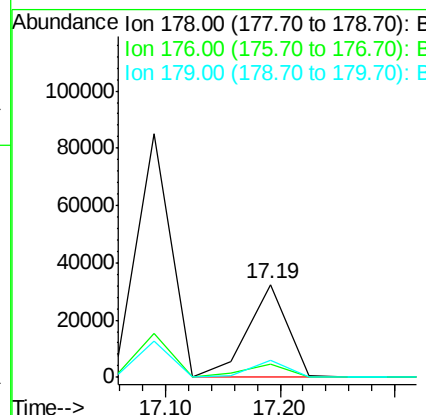
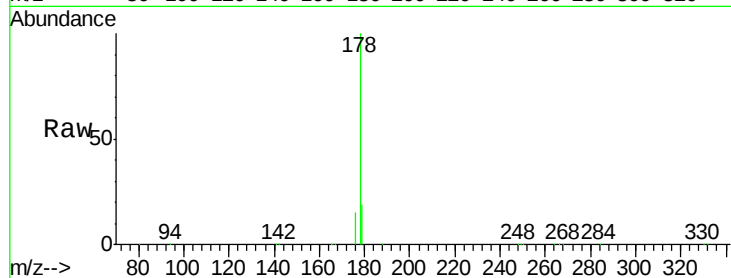
#23
 Anthracene
 Concen: 7.68 ng m
 RT: 17.19 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Instrument :
 BNA_M
 ClientSampleId :
 PB84083BSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	12.2	10.0	15.0
179	15.7	12.3	18.5

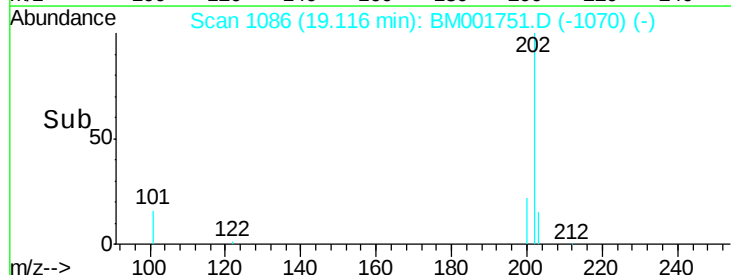
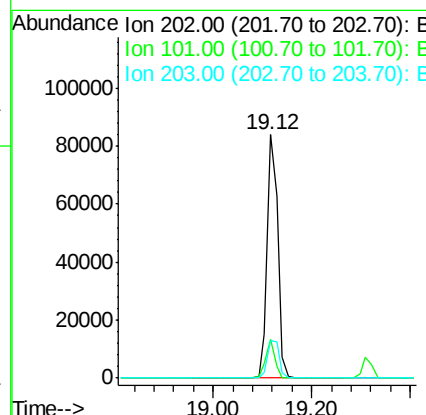
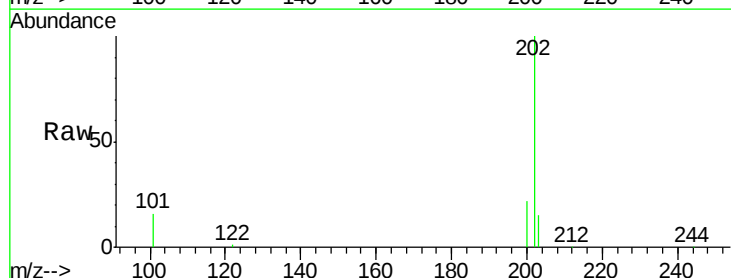
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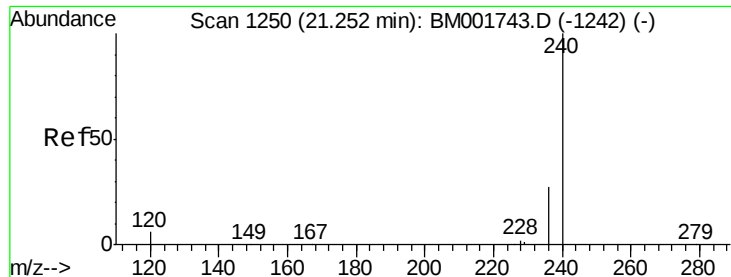
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#24
 Fluoranthene
 Concen: 8.14 ng
 RT: 19.12 min Scan# 1086
 Delta R.T. -0.01 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.7	10.8	16.2
203	17.4	13.8	20.6





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.25 min Scan# 1250

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

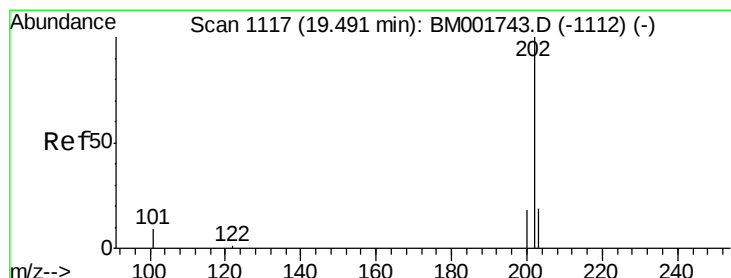
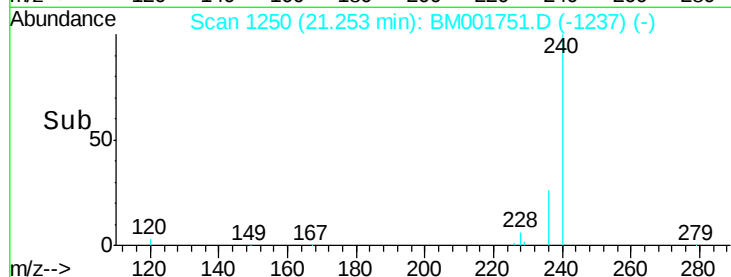
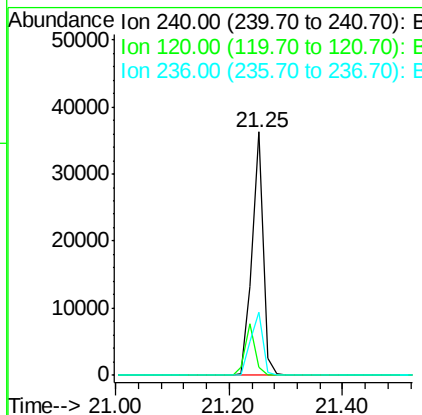
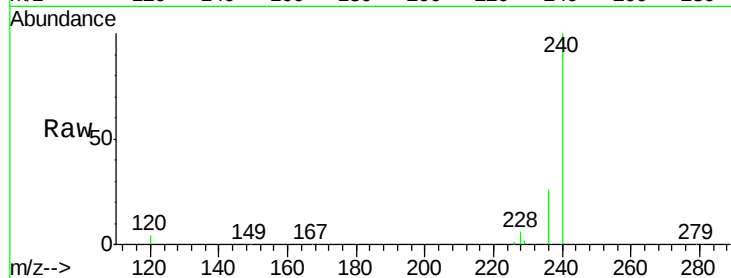
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
240	100		
120	3.5	4.7	7.1#
236	25.7	21.6	32.4

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#26

Pyrene

Concen: 8.03 ng

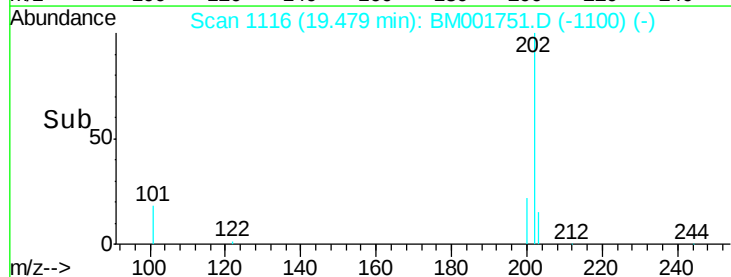
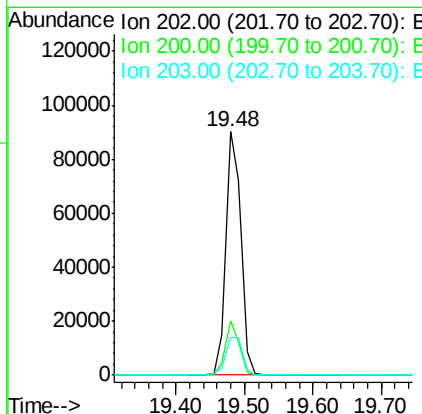
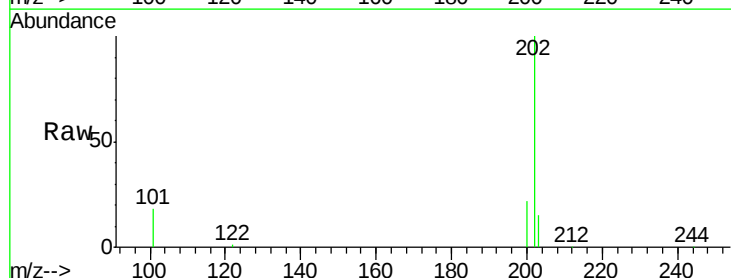
RT: 19.48 min Scan# 1116

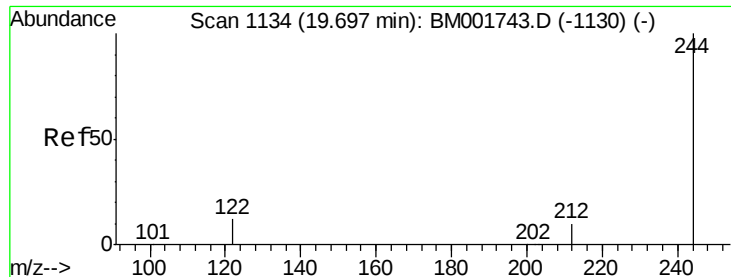
Delta R.T. -0.01 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.6	24.8
203	17.7	13.9	20.9





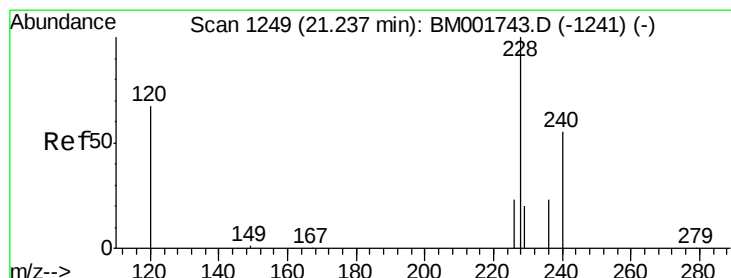
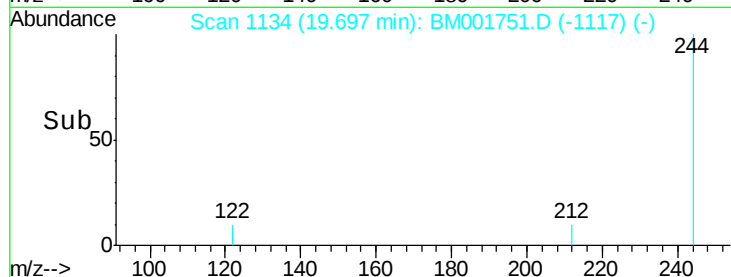
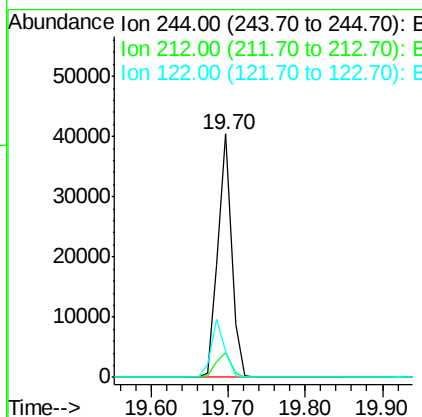
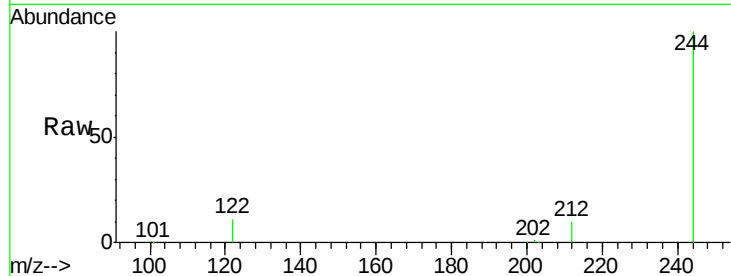
#27
 Terphenyl-d14
 Concen: 7.00 ng
 RT: 19.70 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Instrument :
 BNA_M
 ClientSampleId :
 PB84083BSD

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.6	13.0
122	10.8	10.6	15.8

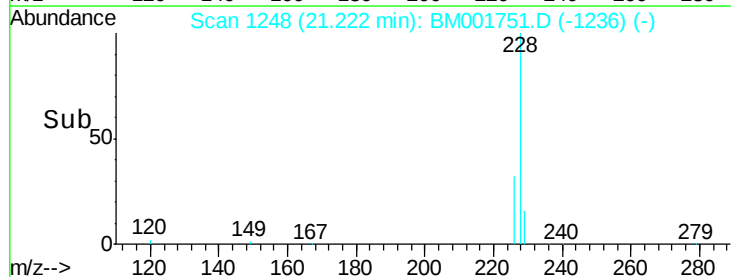
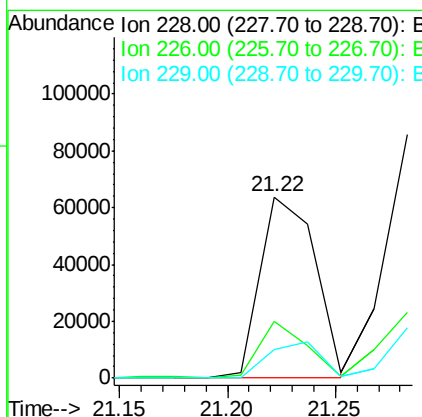
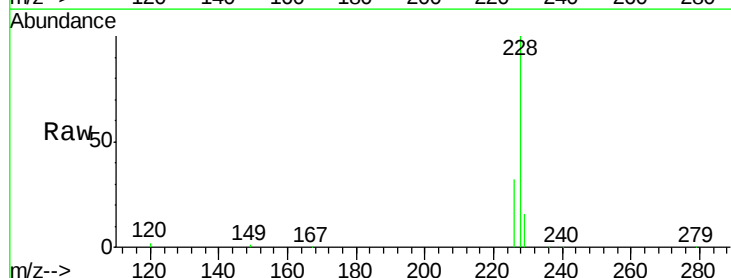
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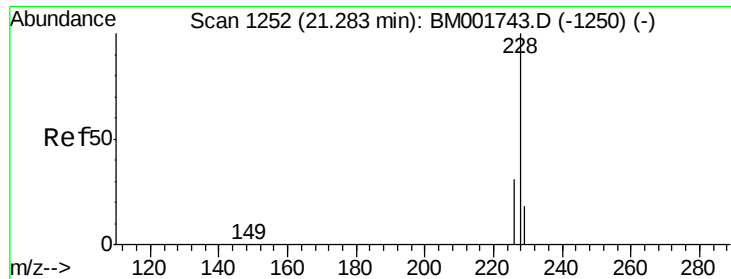
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#28
 Benzo(a)anthracene
 Concen: 7.72 ng m
 RT: 21.22 min Scan# 1248
 Delta R.T. -0.02 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	18.9	28.3#
229	16.1	16.6	25.0#





#29

Chrysene

Concen: 7.10 ng

RT: 21.28 min Scan# 1252

Delta R.T. 0.00 min

Lab File: BM001751.D

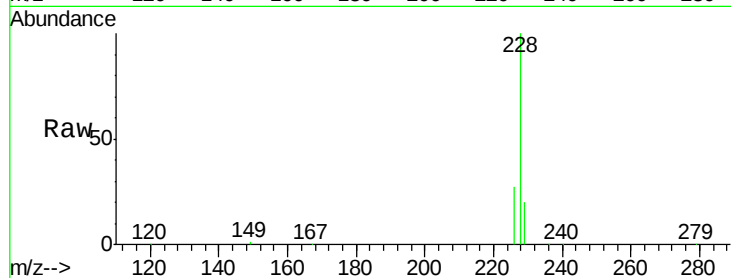
Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

ClientSampleId :

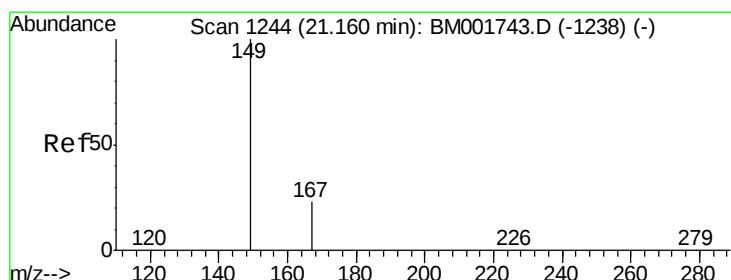
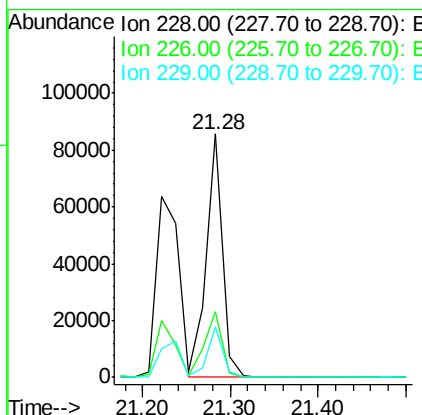
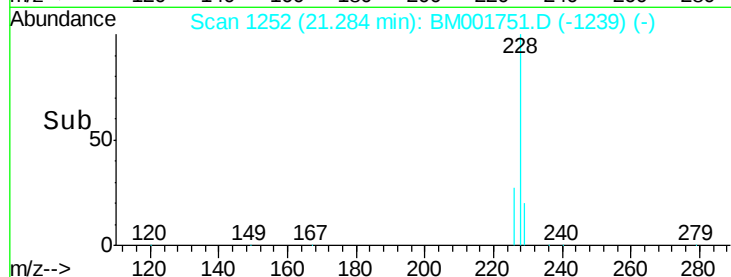
PB84083BSD



Tgt Ion:	228	Resp:	109430
Ion Ratio		Lower	Upper
228	100		
226	27.1	24.3	36.5
229	20.4	15.0	22.6

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#30

Bis(2-ethylhexyl)phthalate

Concen: 10.03 ng

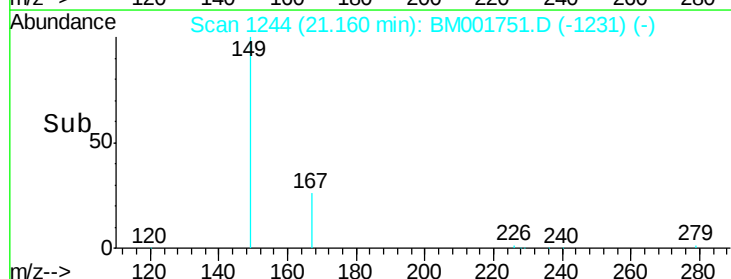
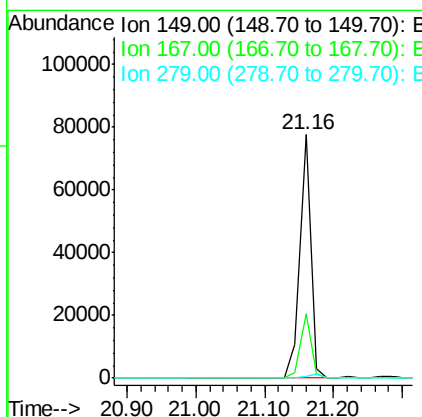
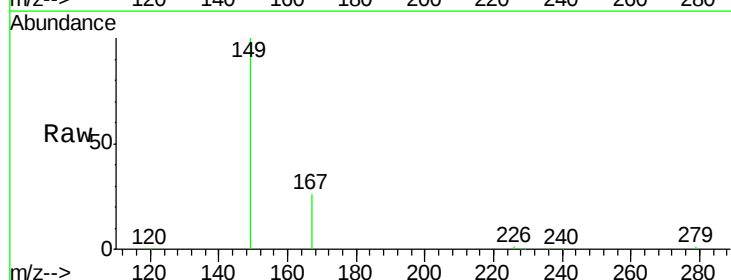
RT: 21.16 min Scan# 1244

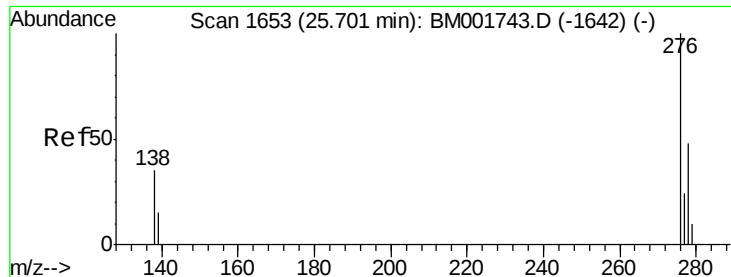
Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

Tgt Ion:	149	Resp:	84818
Ion Ratio		Lower	Upper
149	100		
167	25.7	19.7	29.5
279	1.8	1.6	2.4





#31

Indeno(1,2,3-cd)pyrene

Concen: 7.61 ng

RT: 25.70 min Scan# 1653

Delta R.T. 0.00 min

Lab File: BM001751.D

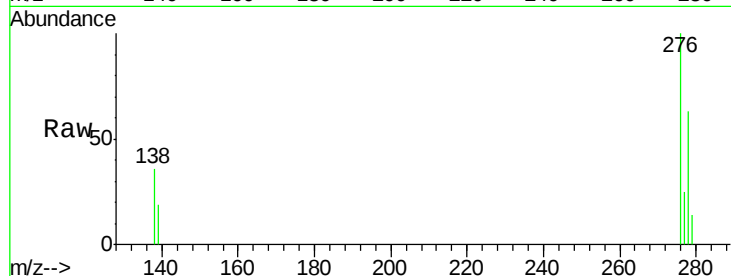
Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

ClientSampleId :

PB84083BSD



Tgt Ion: 276 Resp: 112770

Ion Ratio Lower Upper

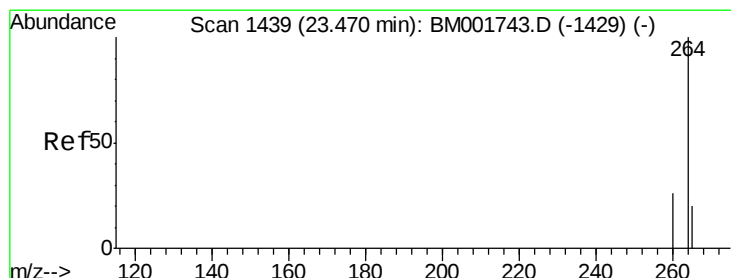
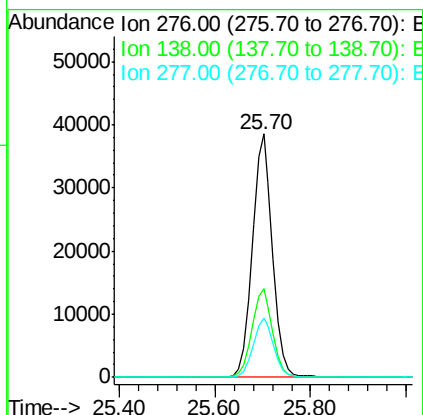
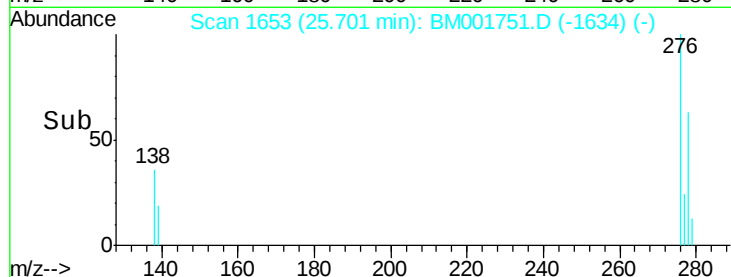
276 100

138 37.0 29.0 43.6

277 24.7 19.7 29.5

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#32

Perylene-d12

Concen: 5.00 ng

RT: 23.47 min Scan# 1439

Delta R.T. 0.00 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47

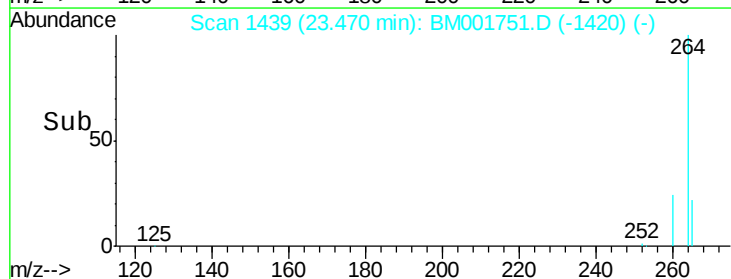
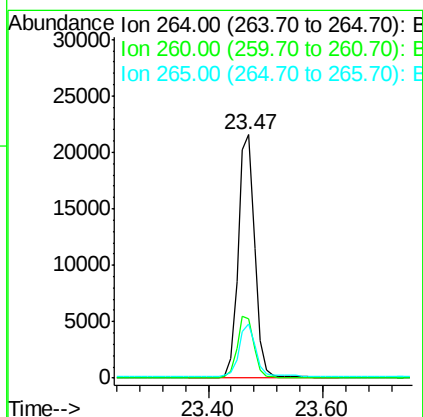
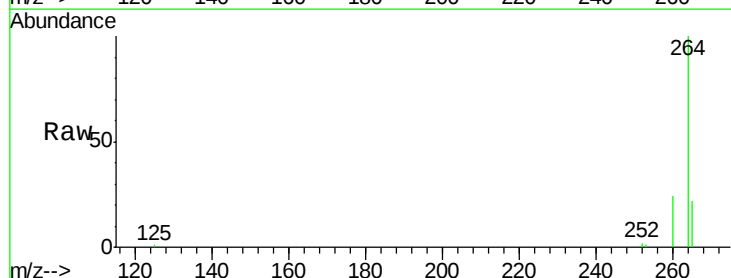
Tgt Ion: 264 Resp: 42758

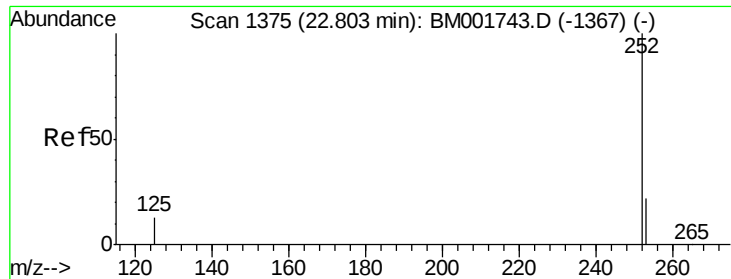
Ion Ratio Lower Upper

264 100

260 24.4 20.8 31.2

265 22.5 16.8 25.2





#33

Benzo(b)fluoranthene

Concen: 7.49 ng

RT: 22.79 min Scan# 1374

Delta R.T. -0.01 min

Lab File: BM001751.D

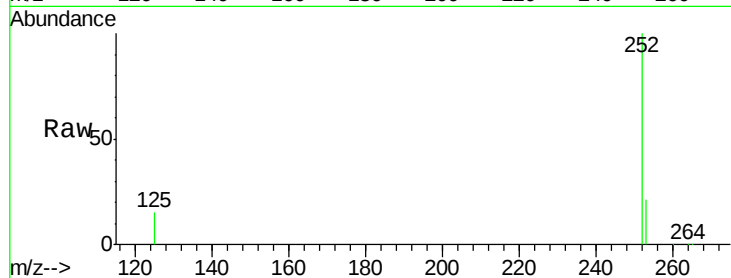
Acq: 18 Jun 2015 23:47

Instrument :

BNA_M

ClientSampleId :

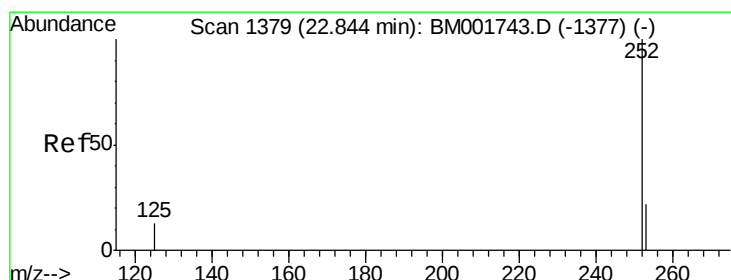
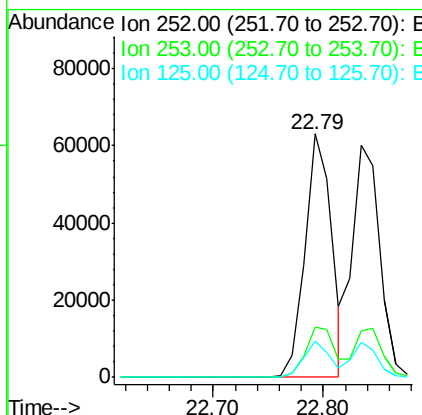
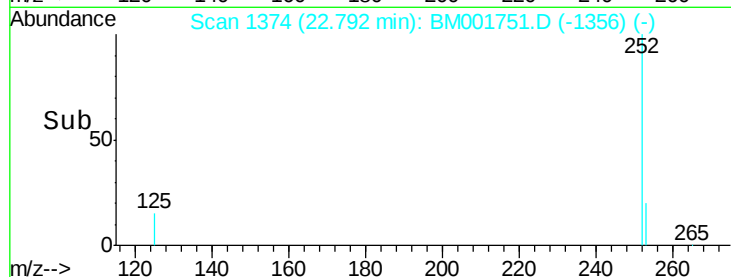
PB84083BSD



Tgt Ion:	252	Resp:	105064
Ion Ratio	Lower	Upper	
252	100		
253	20.6	19.0	28.4
125	14.9	11.3	16.9

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#34

Benzo(k)fluoranthene

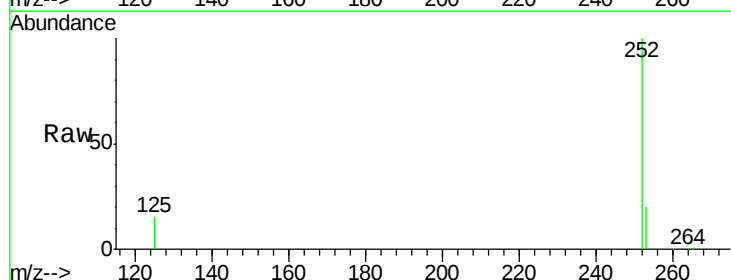
Concen: 8.24 ng

RT: 22.83 min Scan# 1378

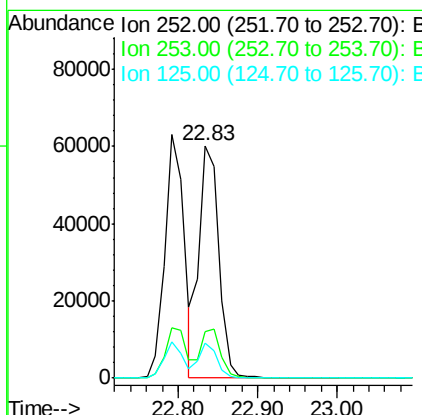
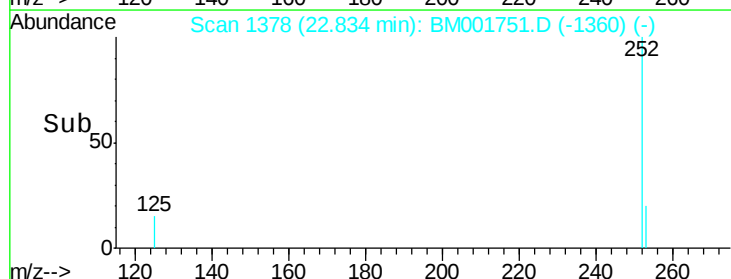
Delta R.T. -0.01 min

Lab File: BM001751.D

Acq: 18 Jun 2015 23:47



Tgt Ion:	252	Resp:	103506
Ion Ratio	Lower	Upper	
252	100		
253	20.2	18.2	27.4
125	15.1	11.8	17.6





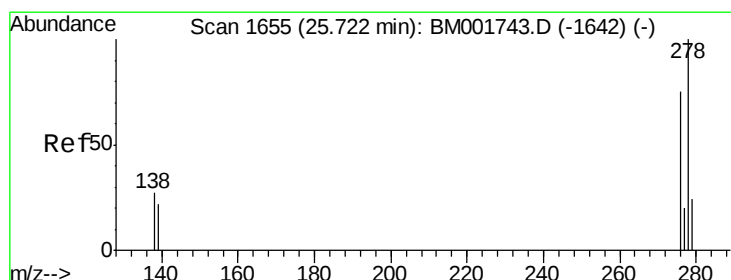
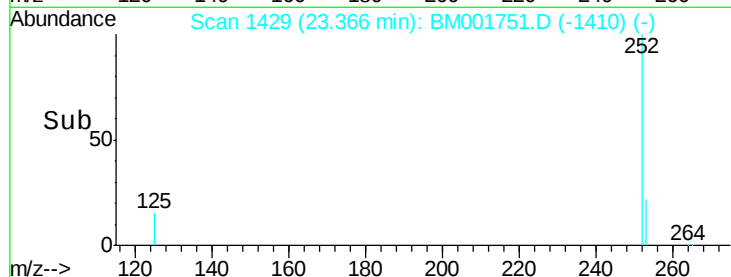
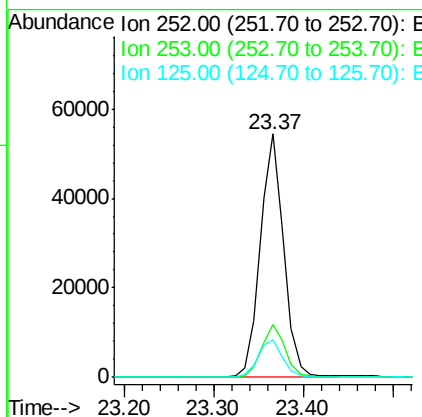
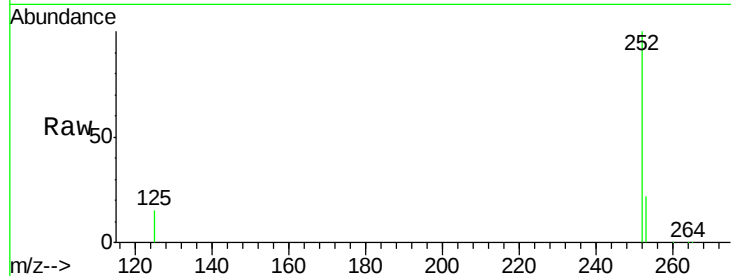
#35
Benzo(a)pyrene
Concen: 8.36 ng
RT: 23.37 min Scan# 1429
Delta R.T. 0.00 min
Lab File: BM001751.D
Acq: 18 Jun 2015 23:47

Instrument :
BNA_M
ClientSampleId :
PB84083BSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9
125	15.5	14.1	21.1

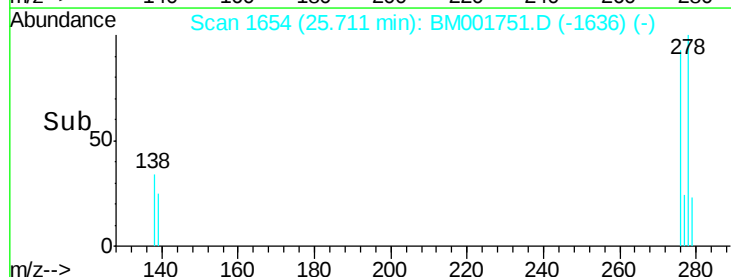
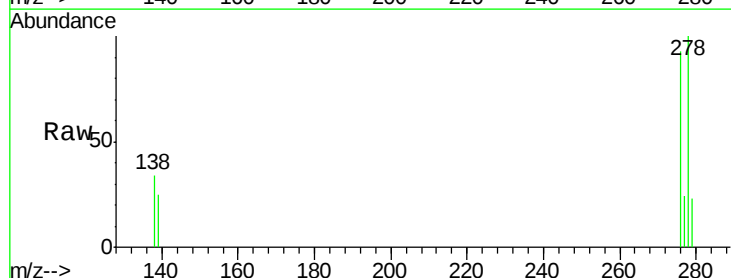
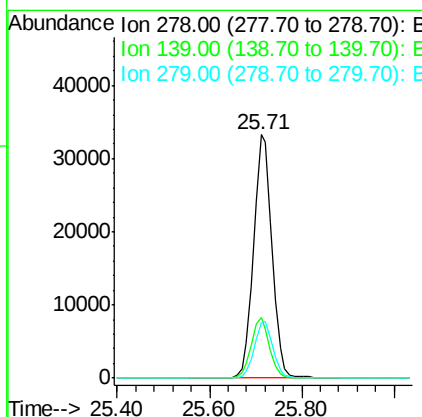
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#36
Dibenzo(a,h)anthracene
Concen: 7.84 ng
RT: 25.71 min Scan# 1654
Delta R.T. -0.01 min
Lab File: BM001751.D
Acq: 18 Jun 2015 23:47

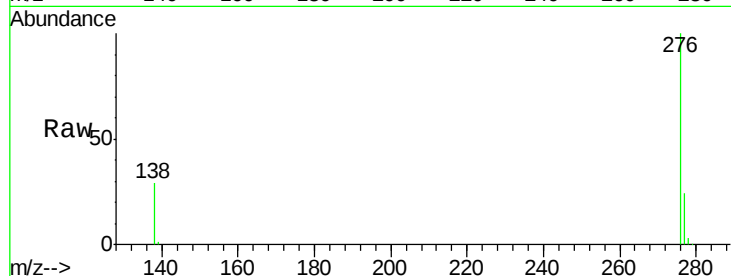
Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.0	18.4	27.6
279	22.9	19.8	29.8





#37
 Benzo(g,h,i)perylene
 Concen: 7.68 ng
 RT: 26.39 min Scan# 1719
 Delta R.T. 0.00 min
 Lab File: BM001751.D
 Acq: 18 Jun 2015 23:47

Instrument :
 BNA_M
 ClientSampleId :
 PB84083BSD



Tgt Ion:	276	Resp:	94483
Ion Ratio	Lower	Upper	
276	100		
277	23.8	19.3	28.9
138	29.4	24.7	37.1

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