

Data File : BM010673.D
Acq On : 22 Jun 2017 23:09
Operator : SJ/JU
Sample : I3653-06 25X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
F5E19

Quant Time: Jun 23 05:09:14 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Jun 23 05:06:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.46	152	60374	20.00	ng/ul	0.00
18) Naphthalene-d8	10.24	136	272494	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.12	164	193670	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.87	188	448132	20.00	ng/ul	0.00
75) Chrysene-d12	21.09	240	498088	20.00	ng/ul	0.00
83) Perylene-d12	23.22	264	359386	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	6.65	99	2072	0.36	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.82	67	1038	0.32	ng/ul	0.00
9) 2-Chlorophenol-d4	7.00	132	1344	0.33	ng/ul	0.00
13) 4-Methylphenol-d8	8.16	113	1718	0.36	ng/ul	0.00
19) Nitrobenzene-d5	8.64	128	1572	0.81	ng/ul	0.03
22) 2-Nitrophenol-d4	9.32	143	683	0.30	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.86	165	1819	0.39	ng/ul	0.00
29) 4-Chloroaniline-d4	10.37	131	11877	2.39	ng/ul	0.00
43) Dimethylphthalate-d6	13.53	166	9771	0.57	ng/ul	0.00
46) Acenaphthylene-d8	13.80	160	8375	0.42	ng/ul	0.00
51) 4-Nitrophenol-d4	14.32	143	1823	0.61	ng/ul	0.00
57) Fluorene-d10	15.12	176	10604	0.72	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.26	200	967	0.35	ng/ul	0.02
70) Anthracene-d10	16.98	188	13659	0.63	ng/ul	0.01
76) Pyrene-d10	19.28	212	15426	0.67	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.09	264	9375	0.54	ng/ul	0.00

Target Compounds

						Qvalue
8) Bis(2-Chloroethyl)ether	6.91	93	17538	4.07	ng/ul#	27
16) 4-Methylphenol	8.23	108	5407	1.09	ng/ul	100
17) Hexachloroethane	8.56	117	7390	4.12	ng/ul#	1
28) Naphthalene	10.30	128	20323419	1498.72	ng/ul#	91
30) 4-Chloroaniline	10.31	127	3274451	655.30	ng/ul#	22
34) 2-Methylnaphthalene	11.92	142	3852593	353.43	ng/ul	96
40) 1,1'-Biphenyl	12.94	154	916071	60.50	ng/ul	98
47) Acenaphthylene	13.83	152	258126	13.70	ng/ul#	96
49) Acenaphthene	14.19	153	3269113	257.30	ng/ul	99
53) Dibenzofuran	14.53	168	3666547	190.55	ng/ul	93
54) 2,4-Dinitrotoluene	14.48	165	7292	1.63	ng/ul#	40
58) Fluorene	15.19	166	3963232	246.01	ng/ul	100
60) 4-Nitroaniline	15.18	138	55918	16.26	ng/ul#	1
64) N-Nitrosodiphenylamine	15.39	169	15406	1.24	ng/ul#	1
69) Phenanthrene	17.02	178	2328632	97.74	ng/ul	99
71) Anthracene	17.02	178	2328632	94.87	ng/ul	99
72) Carbazole	17.28	167	1142826	53.37	ng/ul	98
74) Fluoranthene	18.96	202	11750171	382.69	ng/ul#	93
77) Pyrene	19.32	202	7404722	257.38	ng/ul#	95
80) Benzo(a)anthracene	21.07	228	2108998	72.71	ng/ul	97
82) Chrysene	21.13	228	1575199	60.91	ng/ul	96
85) Benzo(b)fluoranthene	22.59	252	966198	41.42	ng/ul	97
86) Benzo(k)fluoranthene	22.59	252	966198	43.69	ng/ul	95

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062217\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	23.13	252	535882	24.95	ng/ul	100
89) Indeno(1,2,3-cd)pyrene	25.33	276	152283	6.84	ng/ul	96
90) Dibenzo(a,h)anthracene	25.33	278	44121	2.38	ng/ul#	80
91) Benzo(g,h,i)perylene	25.97	276	93921	5.30	ng/ul#	97

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

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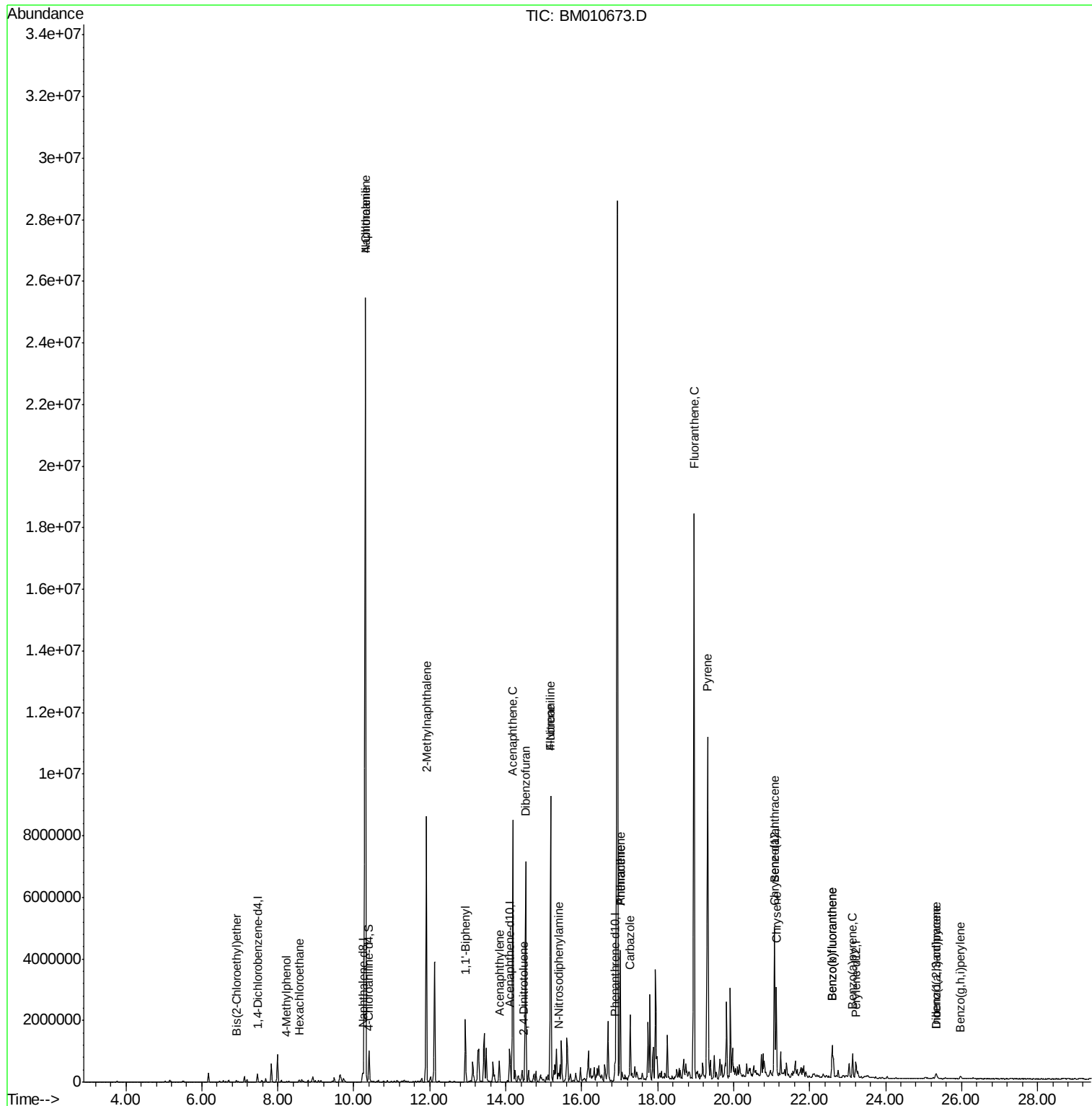
Quant Time: Jun 23 05:09:14 2017

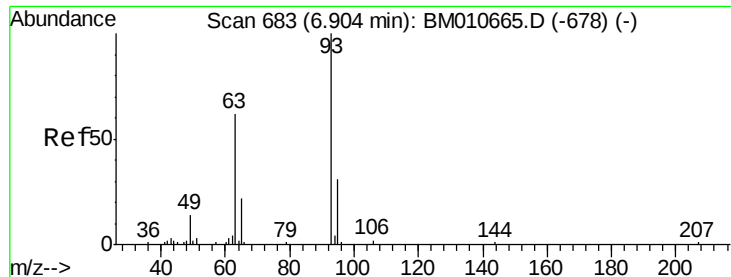
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri Jun 23 05:06:10 2017

Response via : Initial Calibration





#8

Bis(2-Chloroethyl)ether

Concen: 4.07 ng/ul

RT: 6.91 min Scan# 684

Delta R.T. 0.01 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

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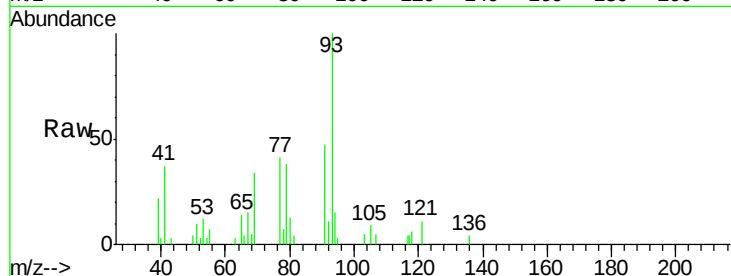
Tgt Ion: 93 Resp: 17538

Ion Ratio Lower Upper

93 100

63 3.0 57.3 85.9#

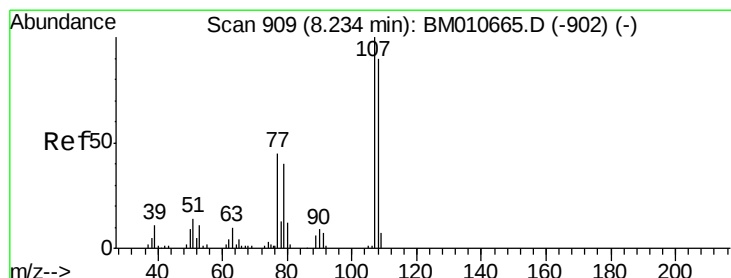
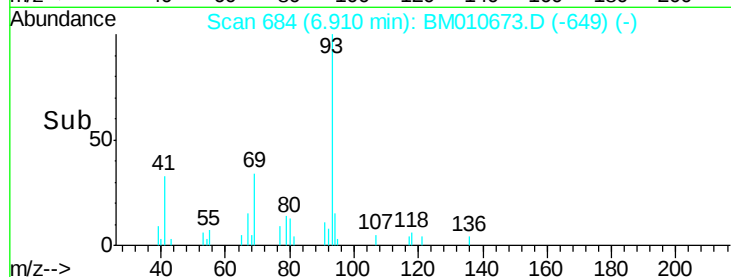
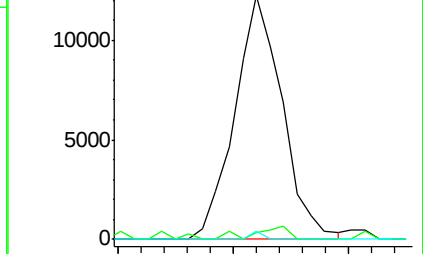
95 3.2 26.6 39.8#



Abundance Ion 93.00 (92.70 to 93.70): BM010665.D (-678) (-)

Ion 63.00 (62.70 to 63.70): BM010665.D (-678) (-)

Ion 95.00 (94.70 to 95.70): BM010665.D (-678) (-)



#16

4-Methylphenol

Concen: 1.09 ng/ul

RT: 8.23 min Scan# 909

Delta R.T. -0.00 min

Lab File: BM010673.D

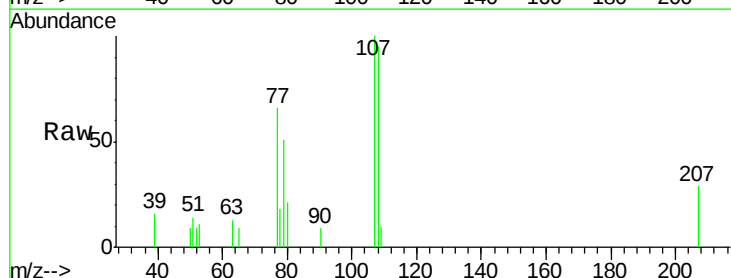
Acq: 22 Jun 2017 23:09

Tgt Ion: 108 Resp: 5407

Ion Ratio Lower Upper

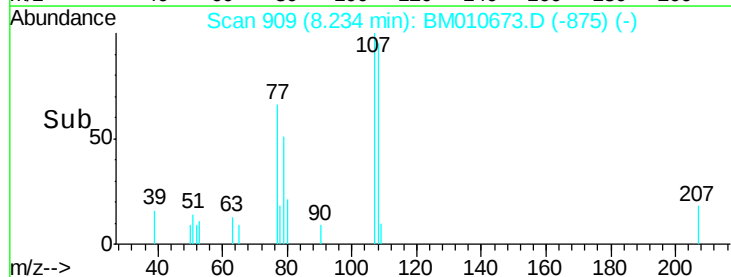
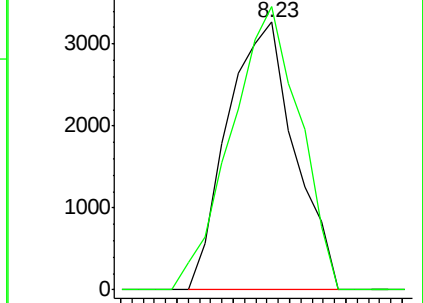
108 100

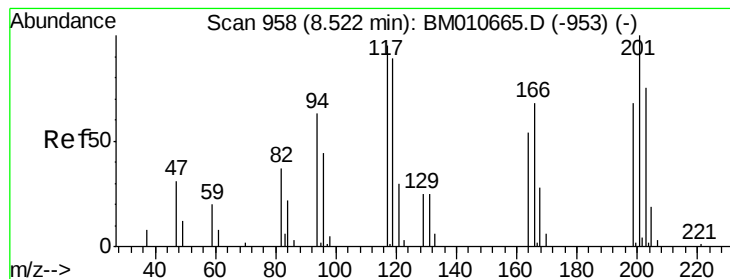
107 105.8 84.9 127.3



Abundance Ion 108.00 (107.70 to 108.70): BM010665.D (-902) (-)

Ion 107.00 (106.70 to 107.70): BM010665.D (-902) (-)





#17

Hexachloroethane

Concen: 4.12 ng/ul

RT: 8.56 min Scan# 964

Delta R.T. 0.04 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

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ClientSampleId :

F5E19

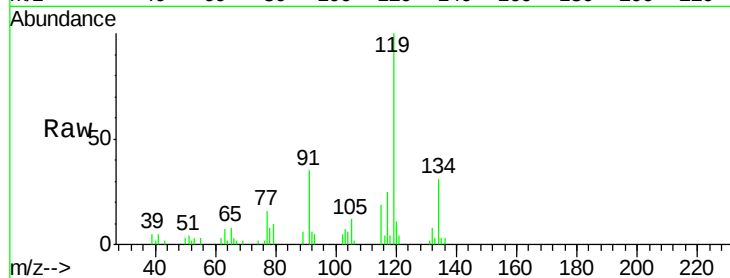
Tgt Ion:117 Resp: 7390

Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

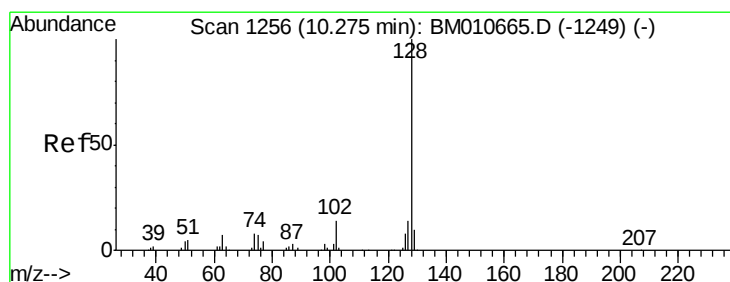
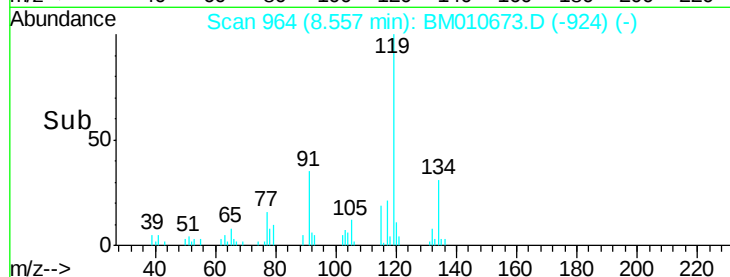
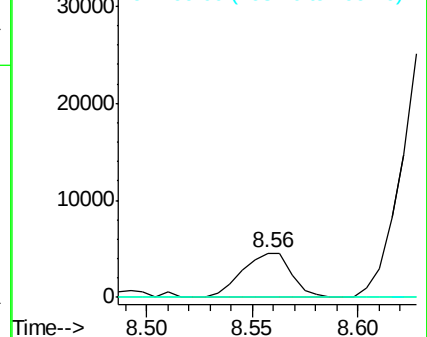
199 0.0 67.8 101.6#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 1498.72 ng/ul

RT: 10.30 min Scan# 1261

Delta R.T. 0.03 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

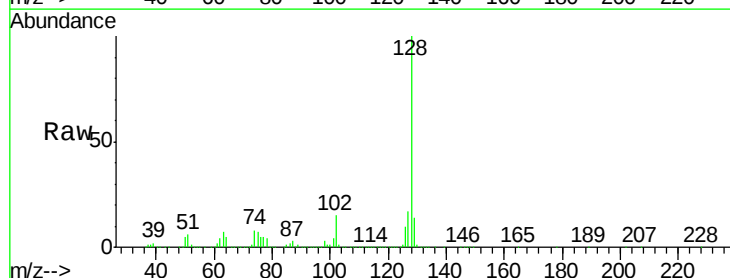
Tgt Ion:128 Resp:20323419

Ion Ratio Lower Upper

128 100

129 14.2 8.8 13.2#

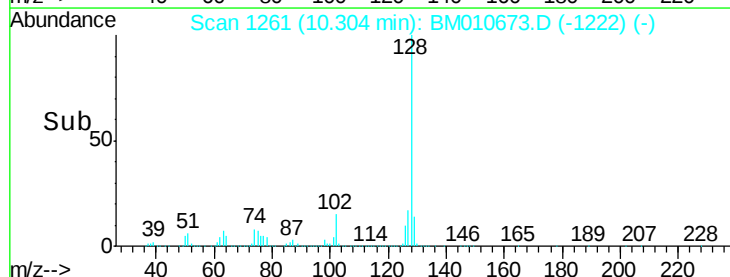
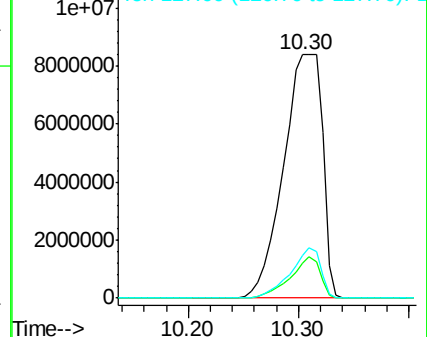
127 17.3 10.6 16.0#

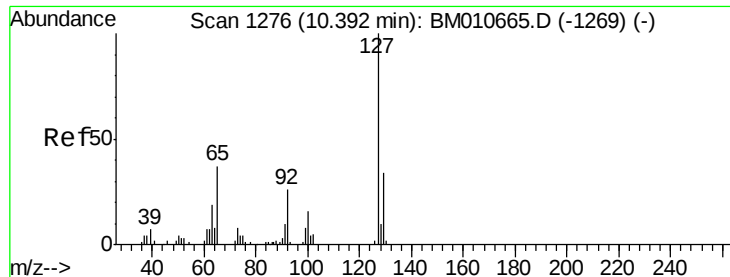


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

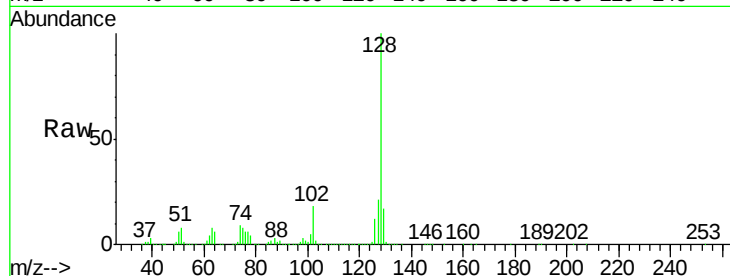




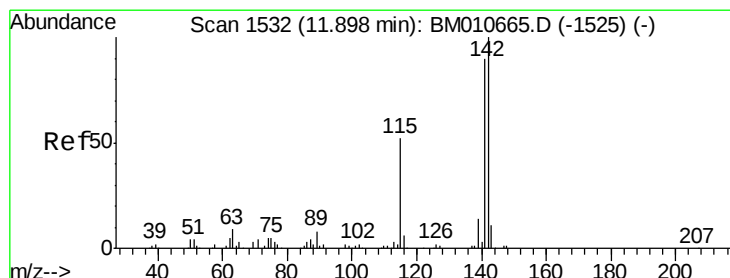
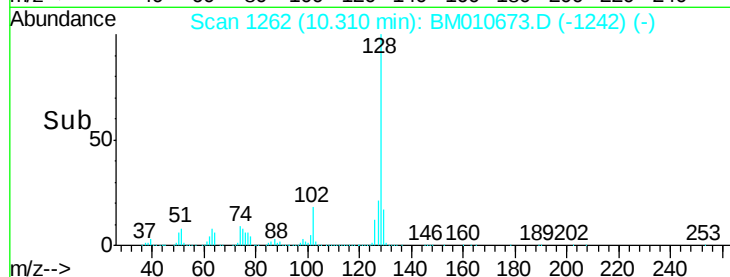
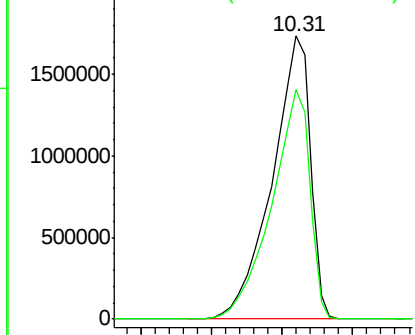
#30
 4-Chloroaniline
 Concen: 655.30 ng/ul
 RT: 10.31 min Scan# 1262
 Delta R.T. -0.08 min
 Lab File: BM010673.D
 Acq: 22 Jun 2017 23:09

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 BNA_M
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Tgt Ion:127 Resp: 3274451
 Ion Ratio Lower Upper
 127 100
 129 81.1 28.4 42.6#

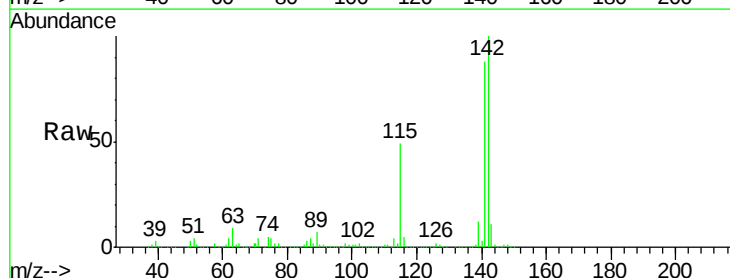


Abundance Ion 127.00 (126.70 to 127.70): E
 2000000 Ion 129.00 (128.70 to 129.70): E

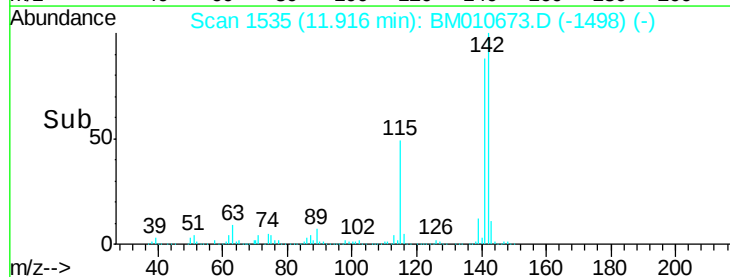
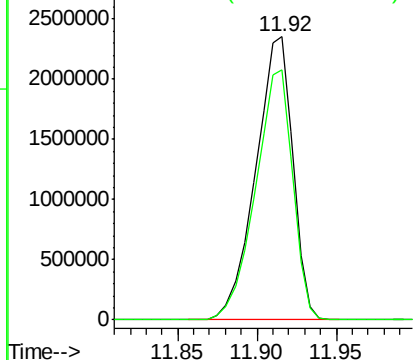


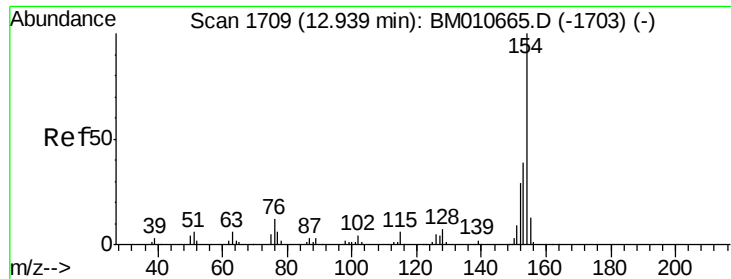
#34
 2-Methylnaphthalene
 Concen: 353.43 ng/ul
 RT: 11.92 min Scan# 1535
 Delta R.T. 0.02 min
 Lab File: BM010673.D
 Acq: 22 Jun 2017 23:09

Tgt Ion:142 Resp: 3852593
 Ion Ratio Lower Upper
 142 100
 141 88.4 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E
 2500000 Ion 141.00 (140.70 to 141.70): E





#40

1,1'-Biphenyl

Concen: 60.50 ng/ul

RT: 12.94 min Scan# 1709

Delta R.T. -0.00 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

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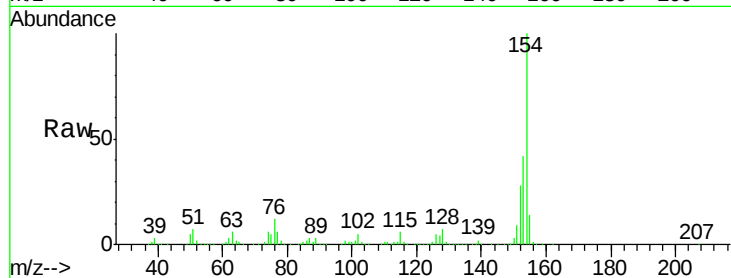
Tgt Ion:154 Resp: 916071

Ion Ratio Lower Upper

154 100

153 41.9 32.6 48.8

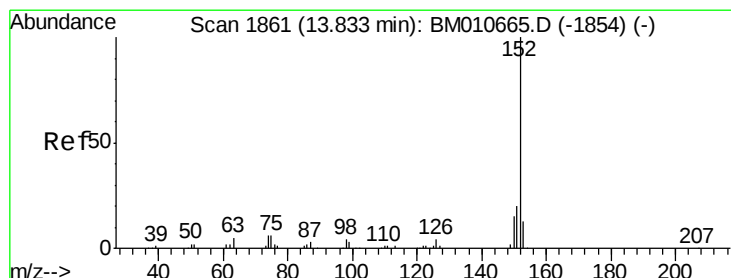
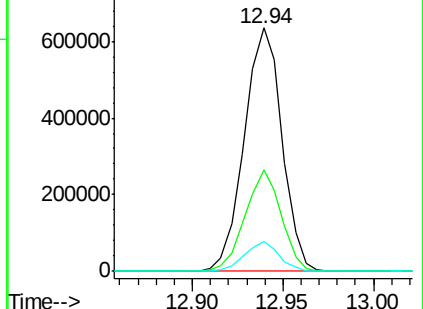
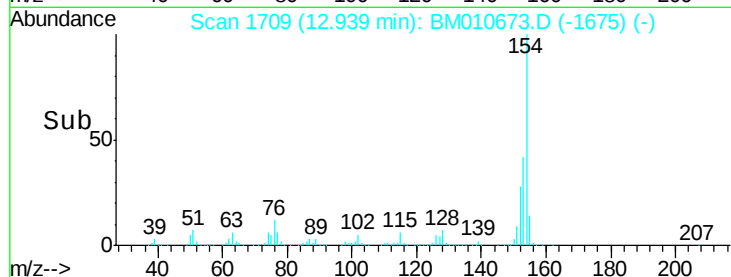
76 12.2 8.5 12.7



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM



#47

Acenaphthylene

Concen: 13.70 ng/ul

RT: 13.83 min Scan# 1860

Delta R.T. -0.01 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

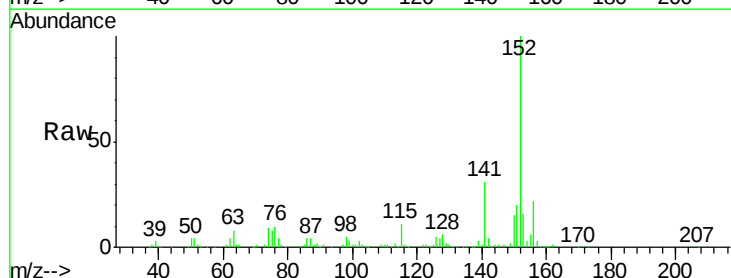
Tgt Ion:152 Resp: 258126

Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

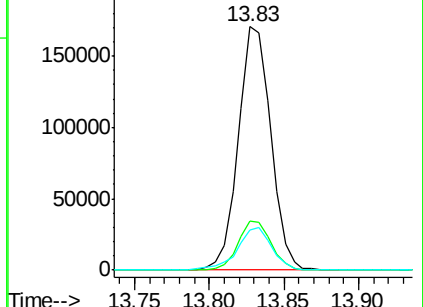
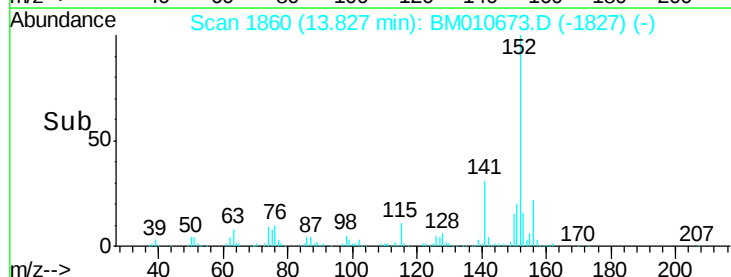
153 16.5 10.2 15.4#

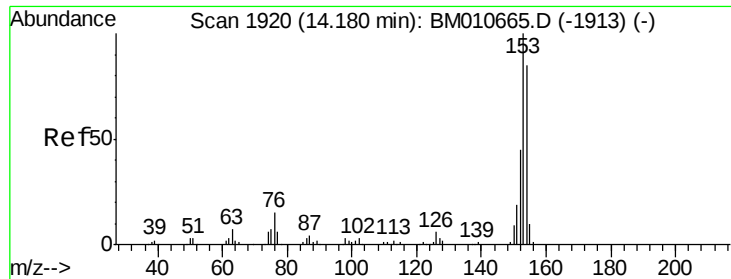


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 257.30 ng/ul

RT: 14.19 min Scan# 1922

Delta R.T. 0.01 min

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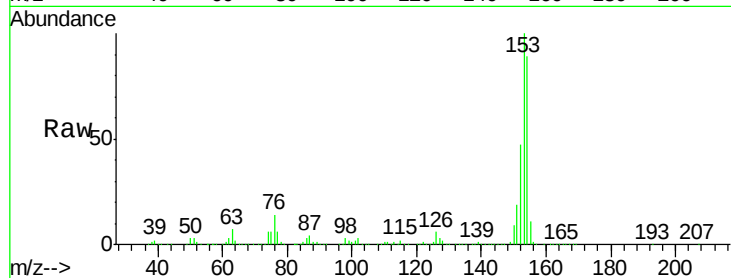
Tgt Ion:153 Resp: 3269113

Ion Ratio Lower Upper

153 100

152 47.4 37.6 56.4

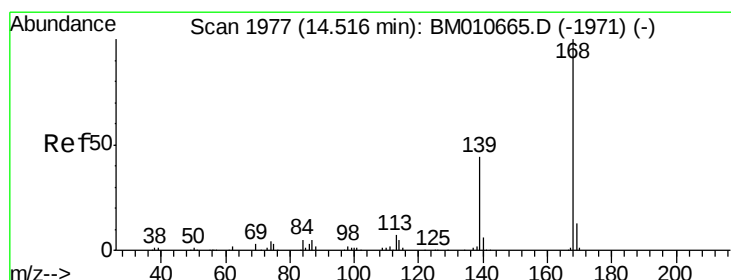
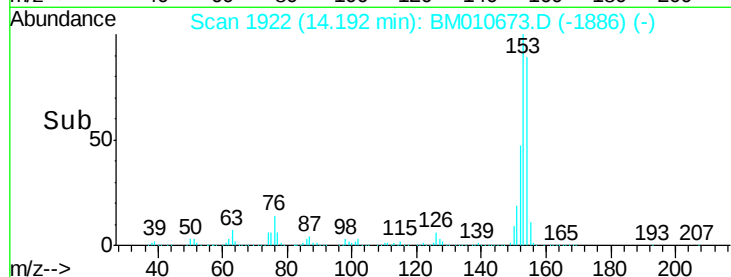
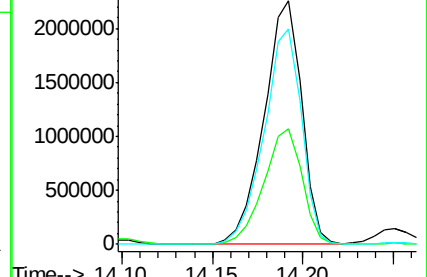
154 88.5 70.4 105.6



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 190.55 ng/ul

RT: 14.53 min Scan# 1979

Delta R.T. 0.01 min

Lab File: BM010673.D

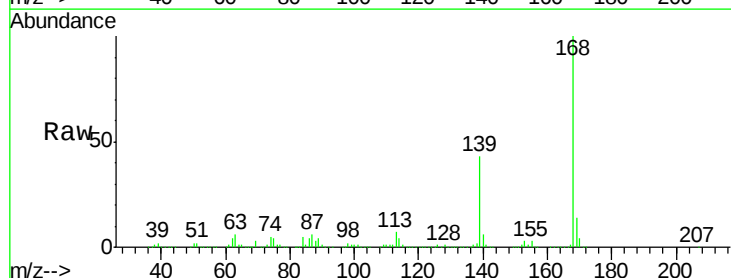
Acq: 22 Jun 2017 23:09

Tgt Ion:168 Resp: 3666547

Ion Ratio Lower Upper

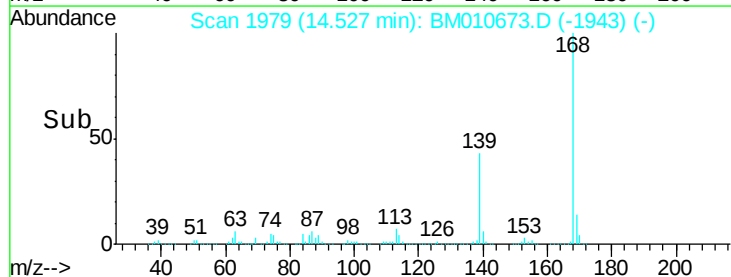
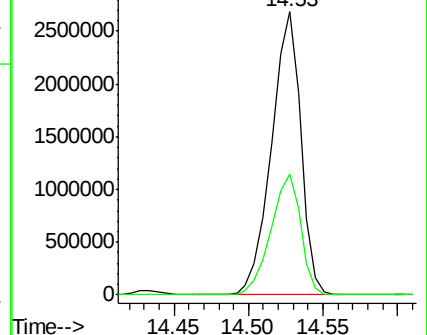
168 100

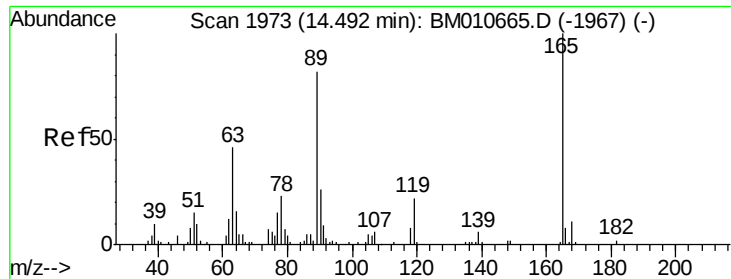
139 42.8 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

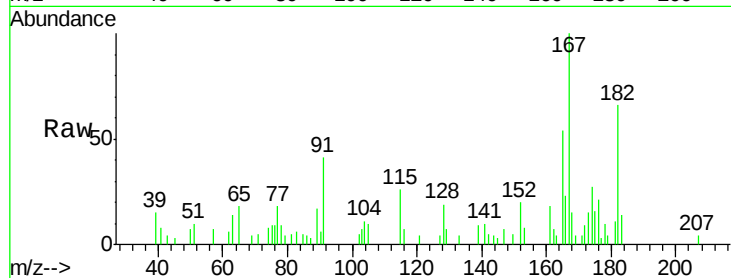




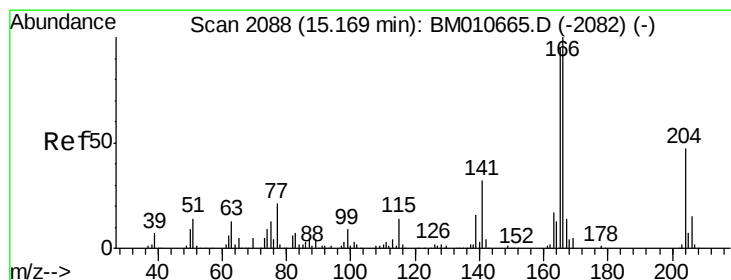
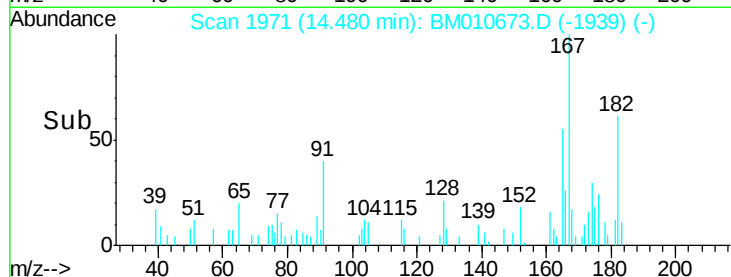
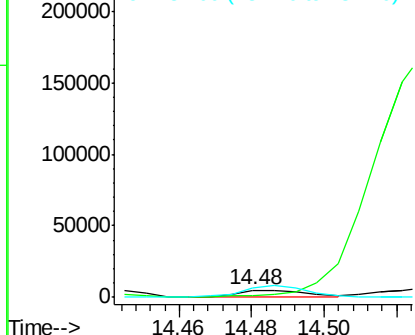
#54
2,4-Dinitrotoluene
Concen: 1.63 ng/ul
RT: 14.48 min Scan# 1971
Delta R.T. -0.01 min
Lab File: BM010673.D
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Tgt Ion:165 Resp: 7292
Ion Ratio Lower Upper
165 100
63 25.5 45.8 68.8#
182 122.0 2.6 4.0#

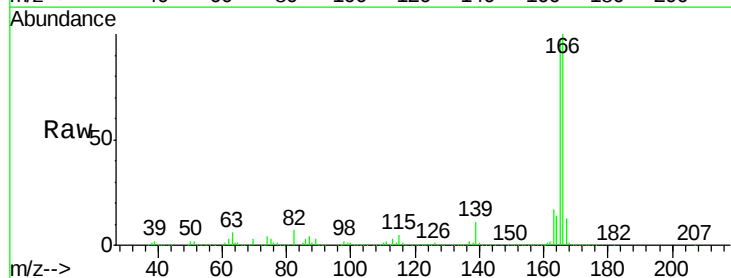


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BM0
Ion 182.00 (181.70 to 182.70): E

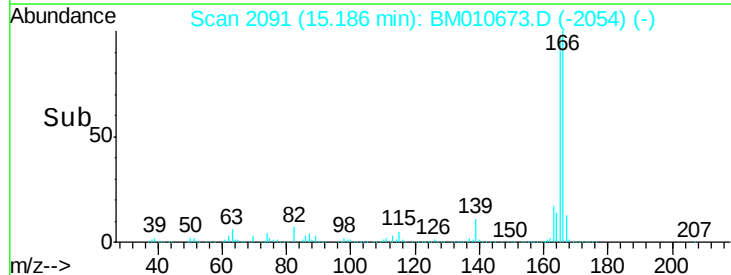
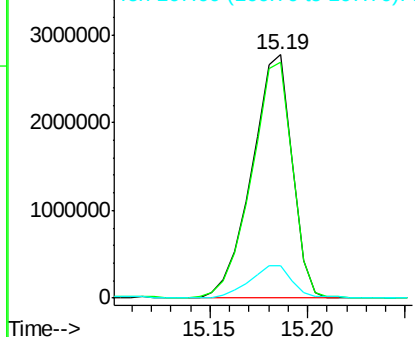


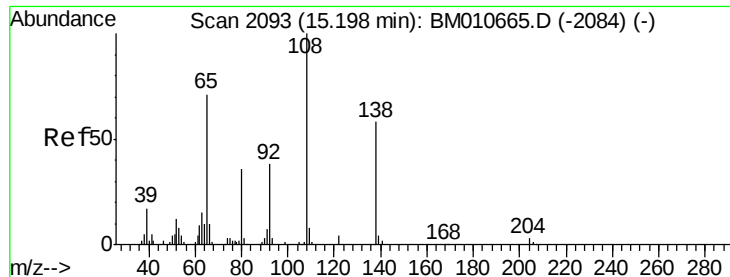
#58
Fluorene
Concen: 246.01 ng/ul
RT: 15.19 min Scan# 2091
Delta R.T. 0.02 min
Lab File: BM010673.D
Acq: 22 Jun 2017 23:09

Tgt Ion:166 Resp: 3963232
Ion Ratio Lower Upper
166 100
165 97.1 77.9 116.9
167 13.2 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

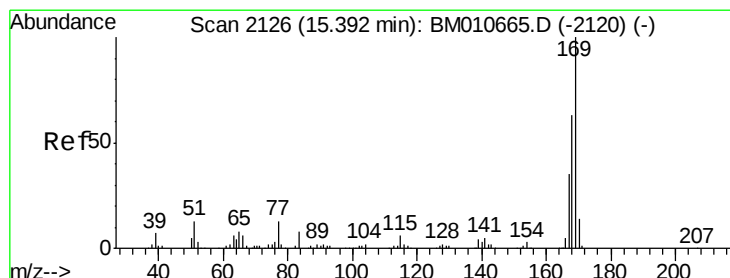
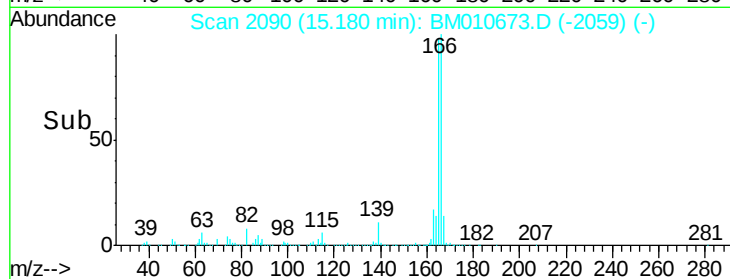
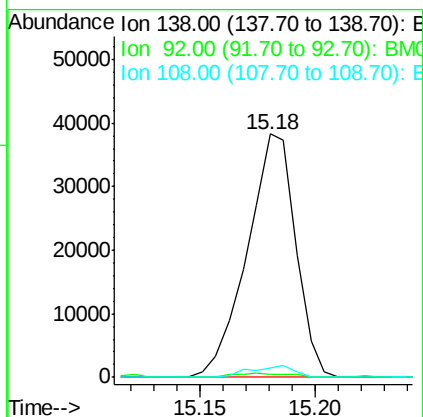
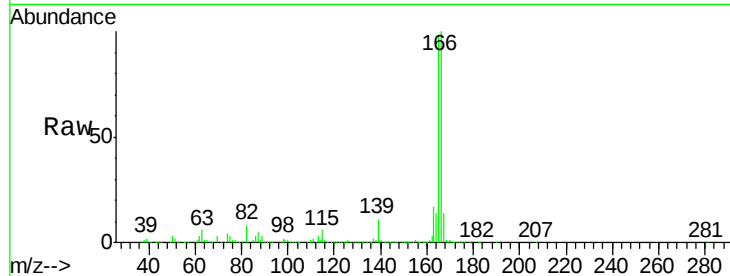




#60
4-Nitroaniline
Concen: 16.26 ng/ul
RT: 15.18 min Scan# 2090
Delta R.T. -0.02 min
Lab File: BM010673.D
Acq: 22 Jun 2017 23:09

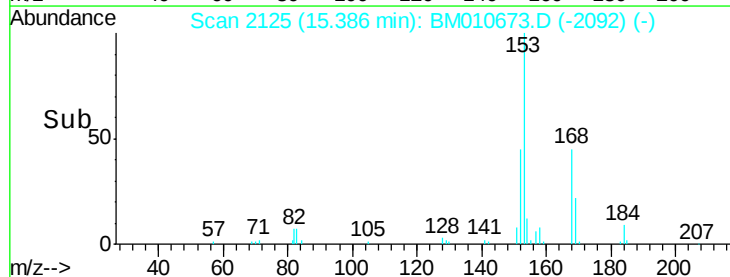
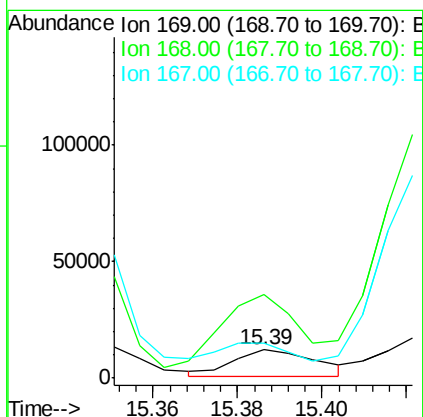
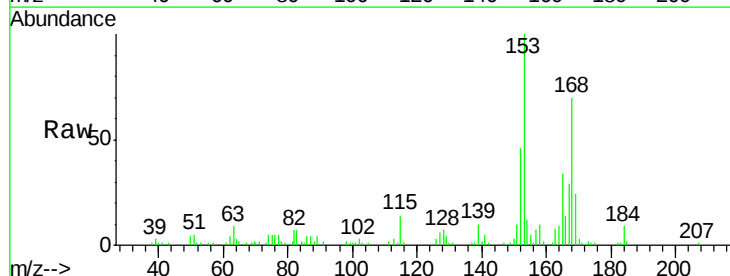
Instrument :
BNA_M
ClientSampleId :
F5E19

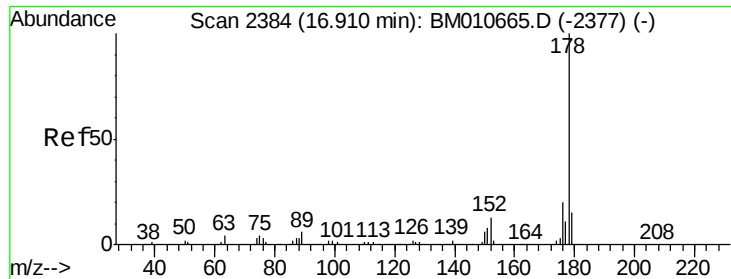
Tgt Ion:138 Resp: 55918
Ion Ratio Lower Upper
138 100
92 1.4 52.7 79.1#
108 3.7 140.4 210.6#



#64
N-Nitrosodiphenylamine
Concen: 1.24 ng/ul
RT: 15.39 min Scan# 2125
Delta R.T. -0.01 min
Lab File: BM010673.D
Acq: 22 Jun 2017 23:09

Tgt Ion:169 Resp: 15406
Ion Ratio Lower Upper
169 100
168 299.1 54.0 81.0#
167 122.9 29.1 43.7#





#69

Phenanthrene

Concen: 97.74 ng/ul

RT: 17.02 min Scan# 2402

Delta R.T. 0.11 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

F5E19

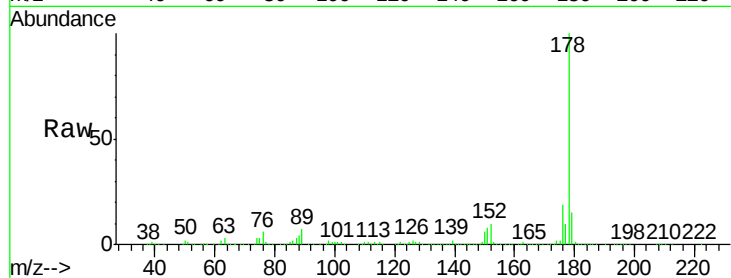
Tgt Ion:178 Resp: 2328632

Ion Ratio Lower Upper

178 100

179 15.2 12.6 19.0

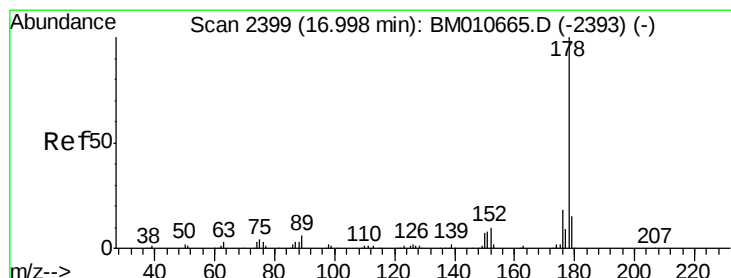
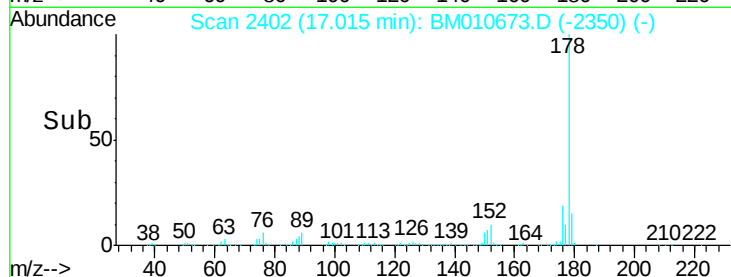
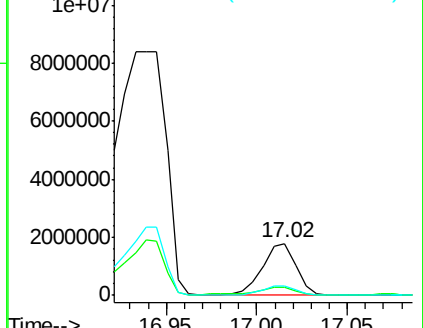
176 18.8 14.9 22.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 94.87 ng/ul

RT: 17.02 min Scan# 2402

Delta R.T. 0.02 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

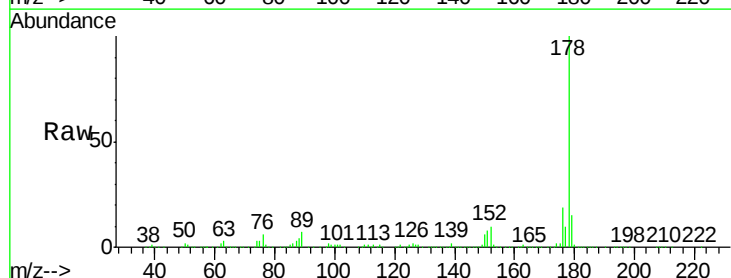
Tgt Ion:178 Resp: 2328632

Ion Ratio Lower Upper

178 100

179 15.2 11.7 17.5

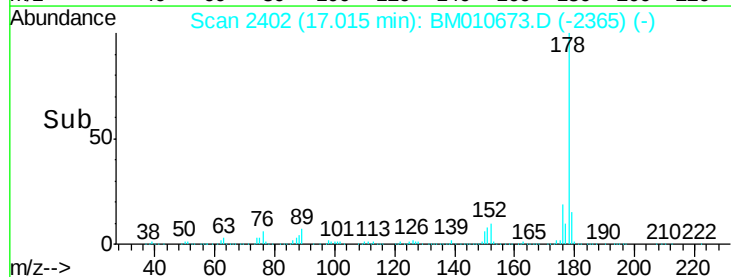
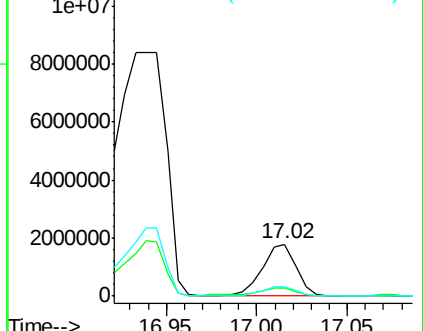
176 18.8 14.6 21.8

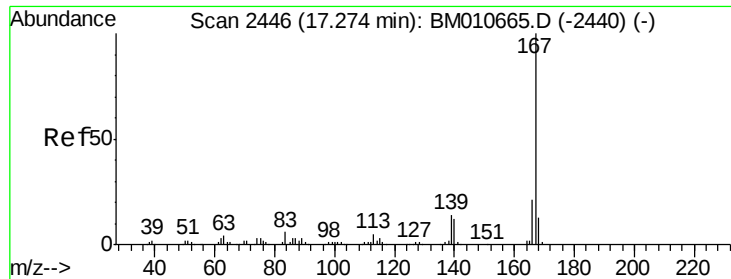


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 53.37 ng/ul

RT: 17.28 min Scan# 2447

Delta R.T. 0.01 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

F5E19

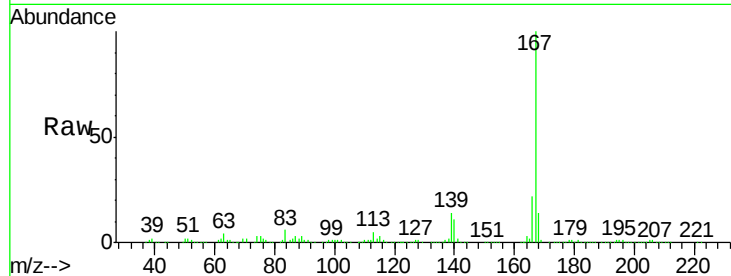
Tgt Ion:167 Resp: 1142826

Ion Ratio Lower Upper

167 100

166 21.8 17.1 25.7

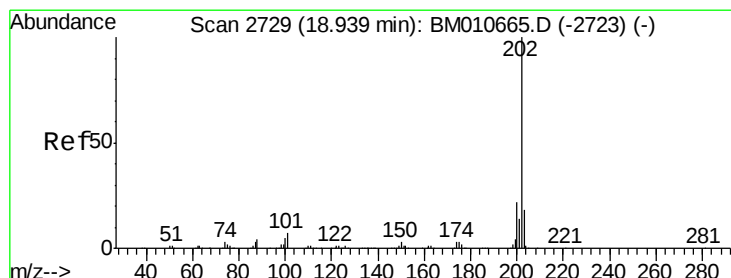
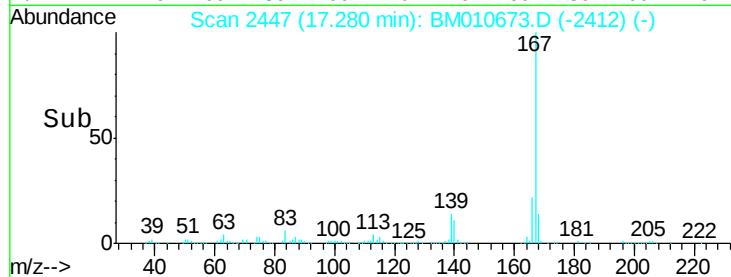
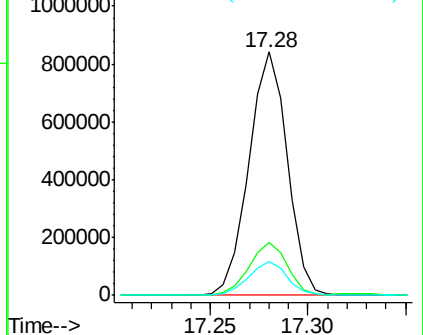
139 13.9 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 382.69 ng/ul

RT: 18.96 min Scan# 2733

Delta R.T. 0.02 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

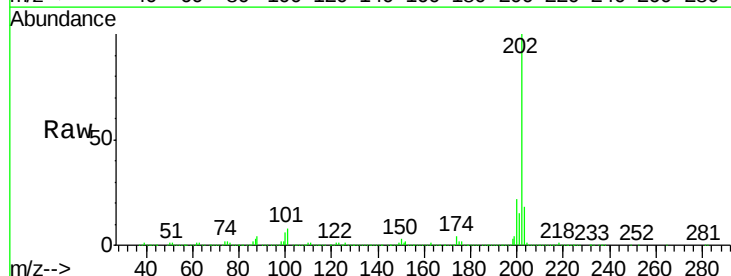
Tgt Ion:202 Resp:11750171

Ion Ratio Lower Upper

202 100

101 8.4 4.6 7.0#

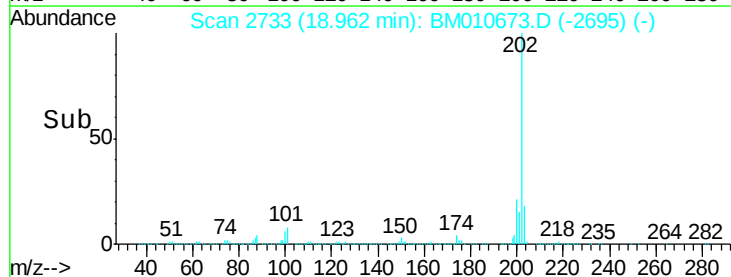
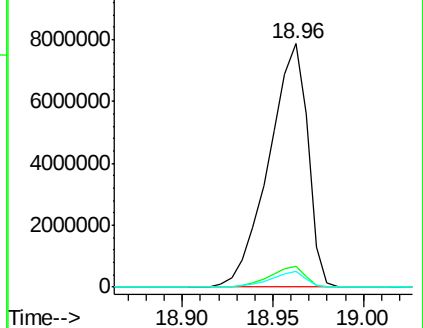
100 6.2 3.4 5.2#

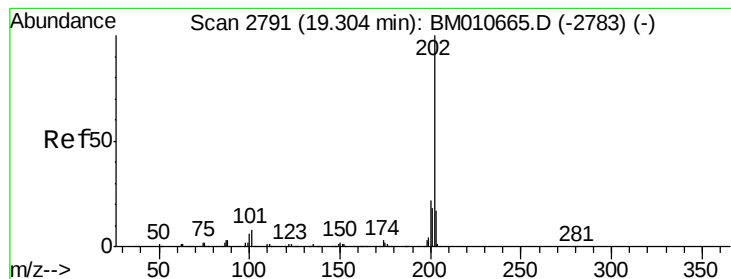


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 257.38 ng/ul

RT: 19.32 min Scan# 2794

Delta R.T. 0.02 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

F5E19

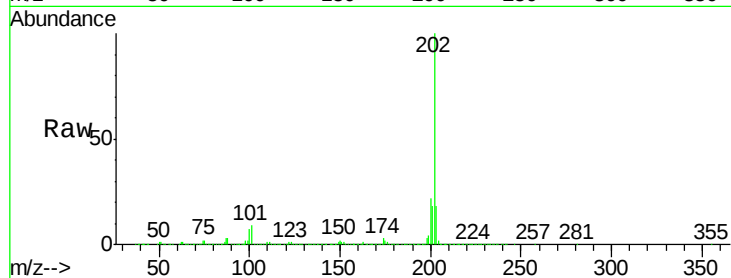
Tgt Ion:202 Resp: 7404722

Ion Ratio Lower Upper

202 100

101 8.8 5.1 7.7#

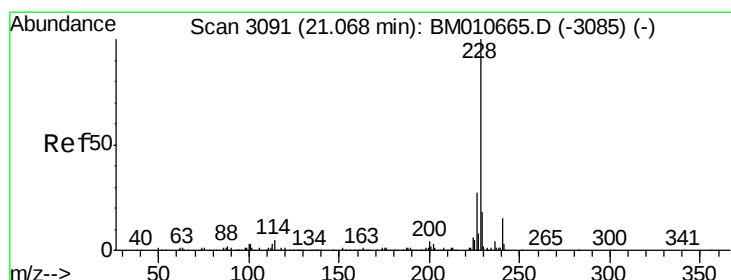
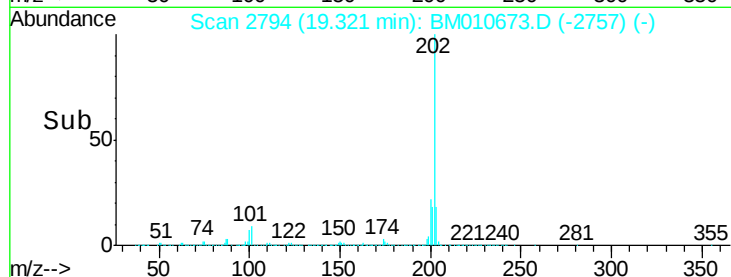
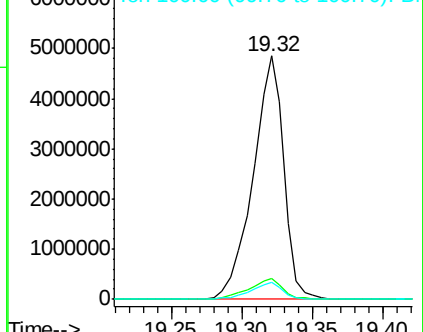
100 7.3 4.9 7.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Benzo(a)anthracene

Concen: 72.71 ng/ul

RT: 21.07 min Scan# 3092

Delta R.T. 0.01 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

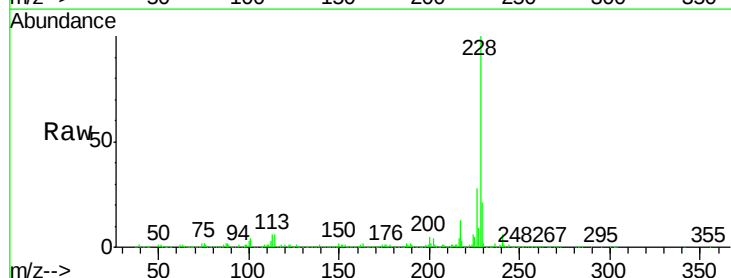
Tgt Ion:228 Resp: 2108998

Ion Ratio Lower Upper

228 100

229 20.5 15.4 23.0

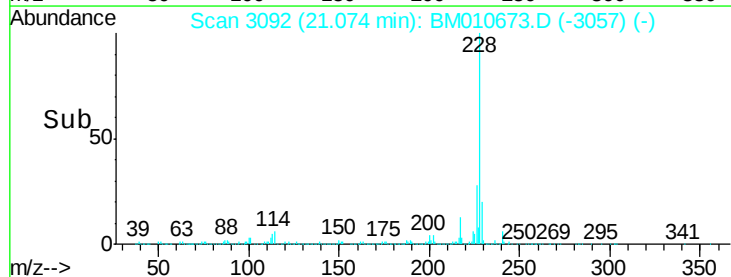
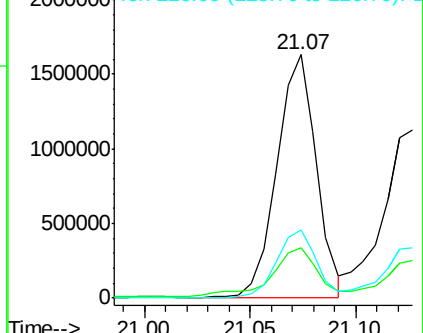
226 28.2 21.4 32.0

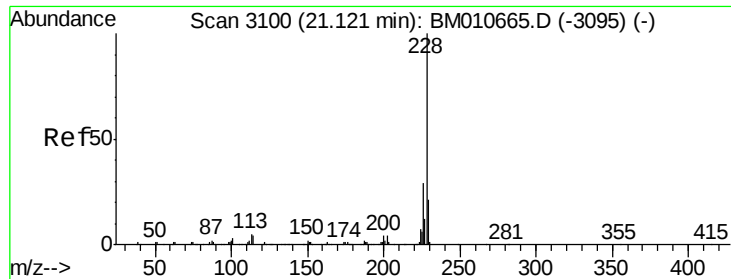


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

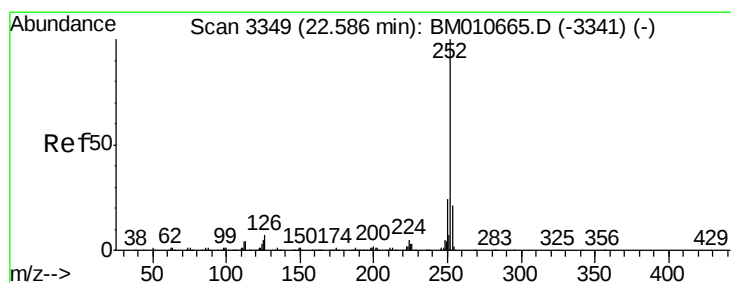
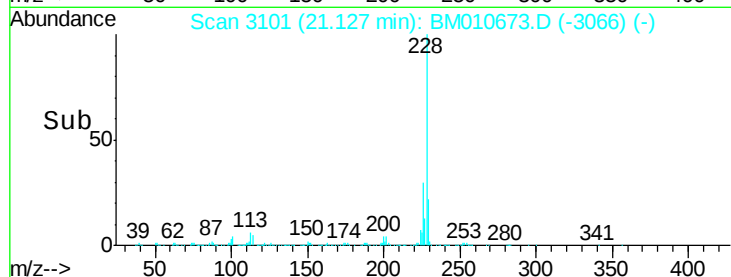
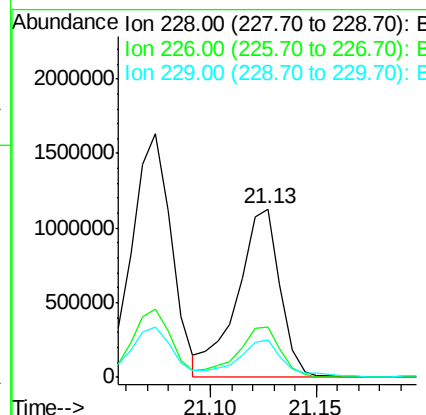
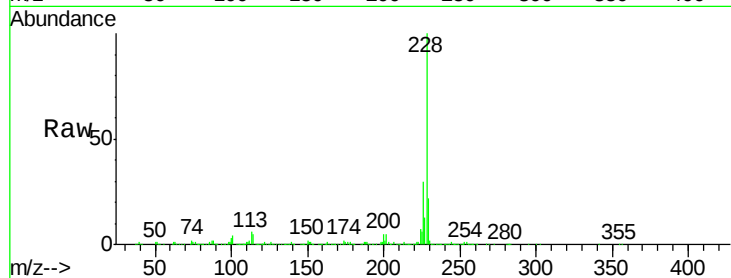




#82
Chrysene
Concen: 60.91 ng/ul
RT: 21.13 min Scan# 3101
Delta R.T. 0.01 min
Lab File: BM010673.D
Acq: 22 Jun 2017 23:09

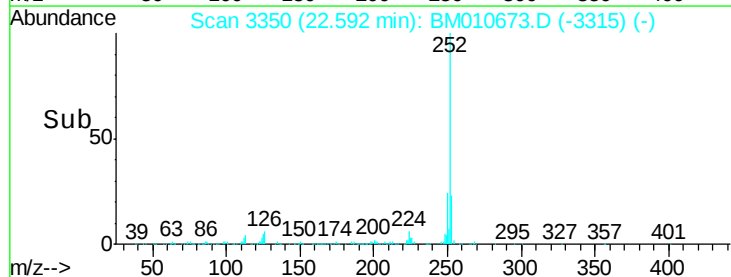
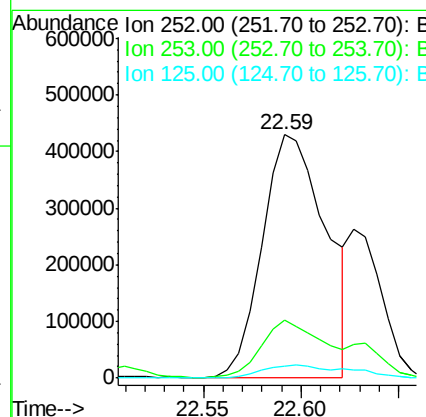
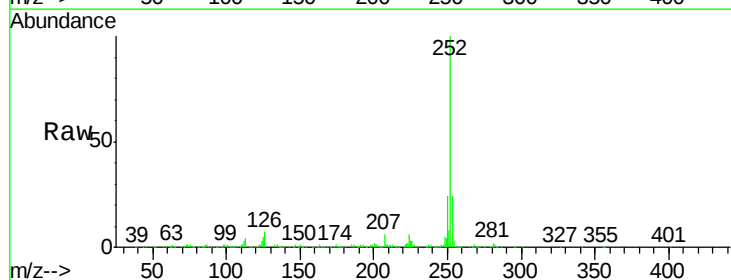
Instrument :
BNA_M
ClientSampleId :
F5E19

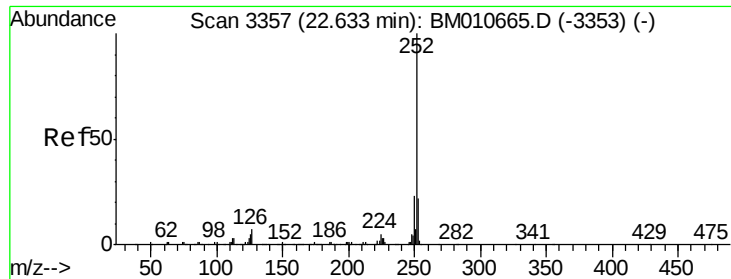
Tgt Ion:228 Resp: 1575199
Ion Ratio Lower Upper
228 100
226 30.2 23.4 35.2
229 22.5 15.5 23.3



#85
Benzo(b)fluoranthene
Concen: 41.42 ng/ul
RT: 22.59 min Scan# 3350
Delta R.T. 0.01 min
Lab File: BM010673.D
Acq: 22 Jun 2017 23:09

Tgt Ion:252 Resp: 966198
Ion Ratio Lower Upper
252 100
253 24.0 17.9 26.9
125 5.0 3.6 5.4





#86

Benzo(k)fluoranthene

Concen: 43.69 ng/ul

RT: 22.59 min Scan# 3350

Delta R.T. -0.04 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

F5E19

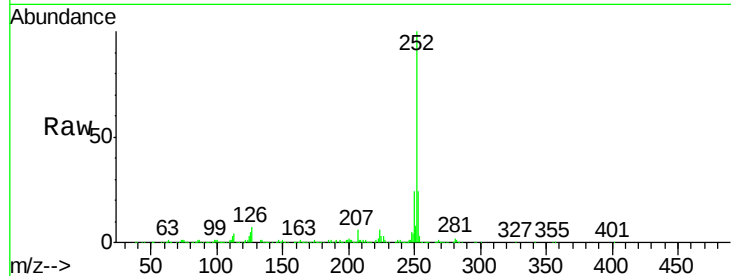
Tgt Ion:252 Resp: 966198

Ion Ratio Lower Upper

252 100

253 24.0 17.1 25.7

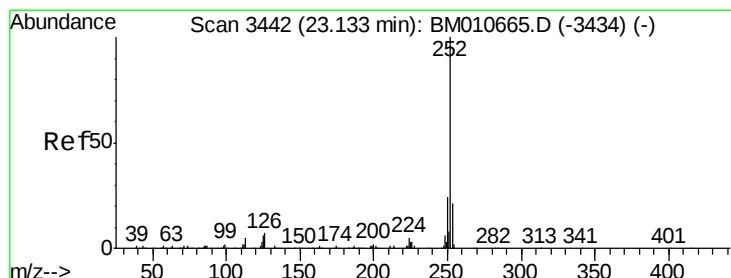
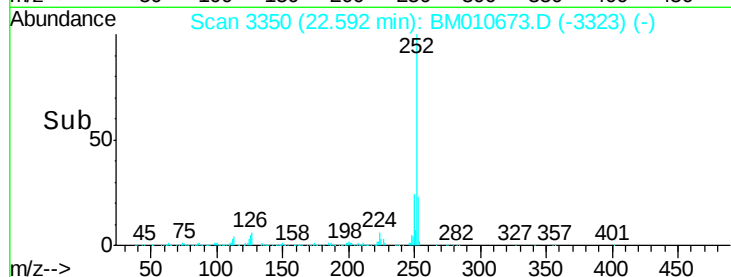
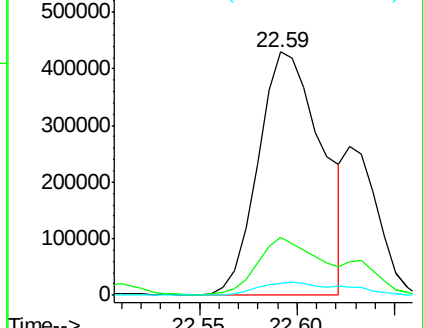
125 5.0 3.4 5.2



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



#88

Benzo(a)pyrene

Concen: 24.95 ng/ul

RT: 23.13 min Scan# 3442

Delta R.T. -0.00 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

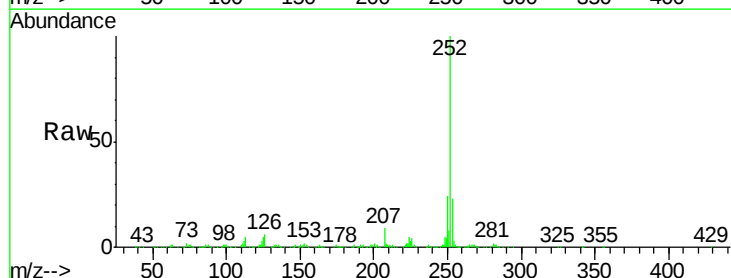
Tgt Ion:252 Resp: 535882

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.2

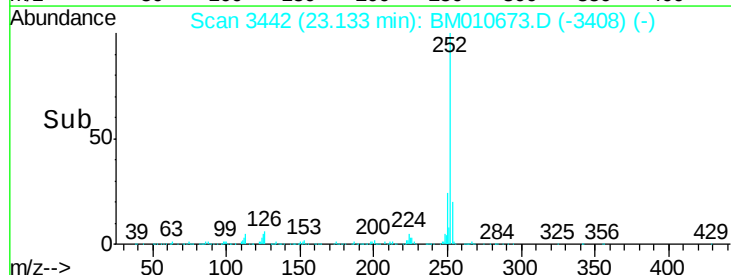
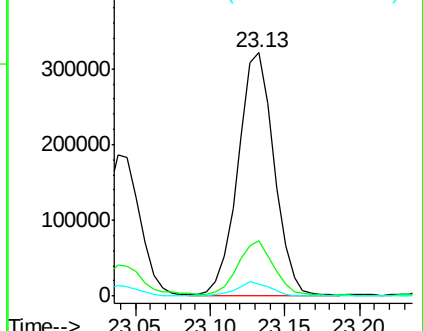
125 5.1 4.0 6.0

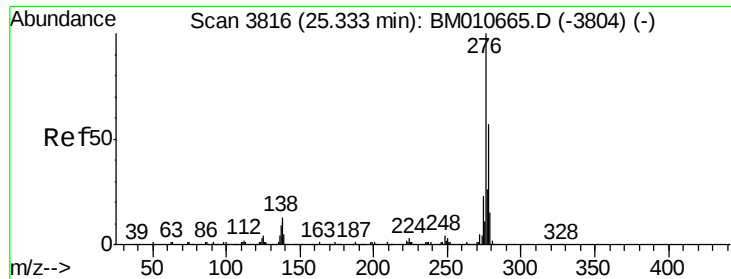


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Indeno(1,2,3-cd)pyrene

Concen: 6.84 ng/ul

RT: 25.33 min Scan# 3816

Delta R.T. -0.00 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

F5E19

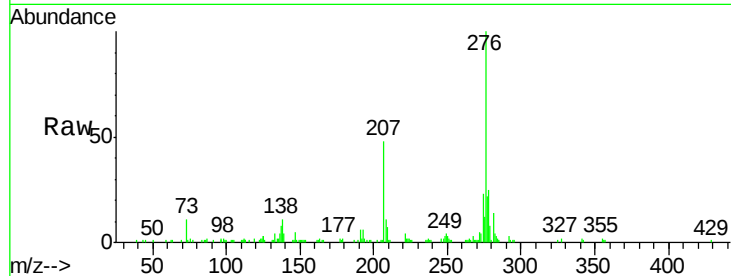
Tgt Ion:276 Resp: 152283

Ion Ratio Lower Upper

276 100

138 11.0 9.3 13.9

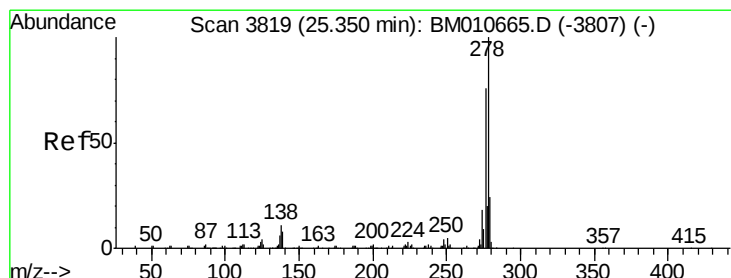
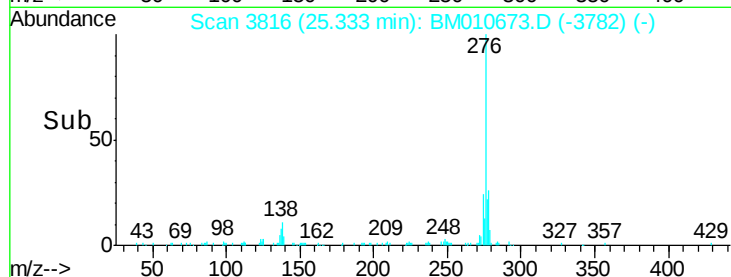
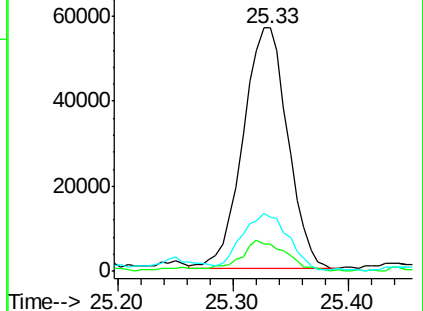
277 22.3 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.38 ng/ul

RT: 25.33 min Scan# 3816

Delta R.T. -0.02 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

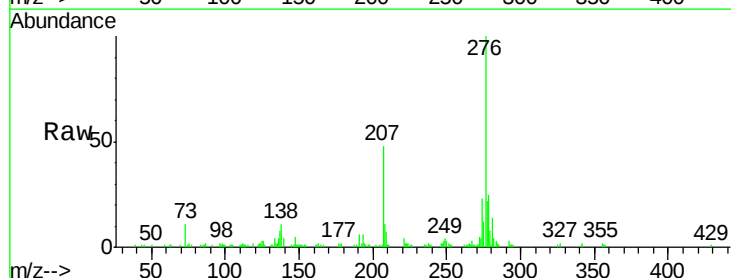
Tgt Ion:278 Resp: 44121

Ion Ratio Lower Upper

278 100

139 16.6 5.8 8.8#

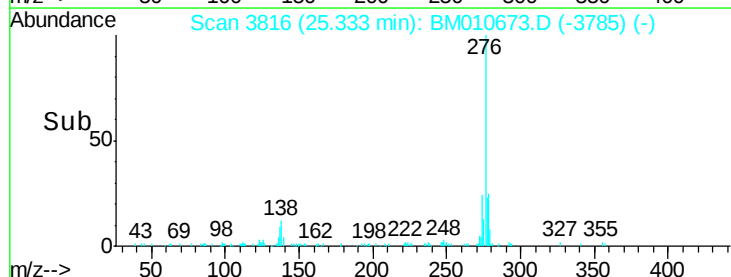
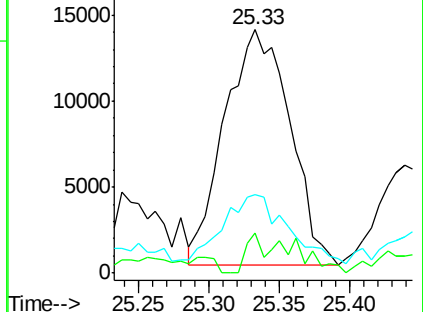
279 32.1 18.6 27.8#

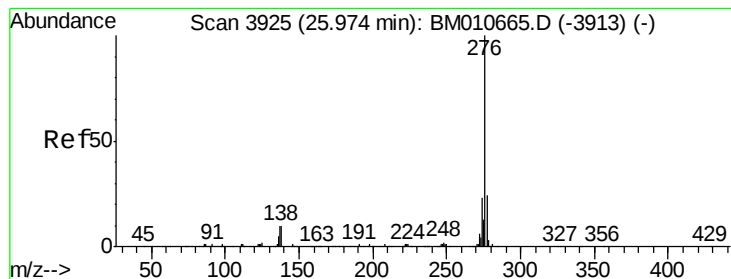


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 5.30 ng/ul

RT: 25.97 min Scan# 3924

Delta R.T. -0.01 min

Lab File: BM010673.D

Acq: 22 Jun 2017 23:09

Instrument :

BNA_M

ClientSampleId :

F5E19

Tgt Ion: 276 Resp: 93921

Ion Ratio Lower Upper

276 100

138 13.6 8.5 12.7#

277 22.8 18.6 28.0

