

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052116\
 Data File : BM005566.D
 Acq On : 22 May 2016 00:36
 Operator : UM/SJ
 Sample : H2922-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 E5NG0

Quant Time: May 22 05:34:08 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sun May 22 05:33:20 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	79051	20.00	ng/ul	0.00
18) Naphthalene-d8	10.61	136	323734	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.46	164	158840	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.21	188	254110	20.00	ng/ul	0.02
75) Chrysene-d12	21.42	240	207414	20.00	ng/ul	0.05
83) Perylene-d12	23.74	264	306613	20.00	ng/ul	0.10

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.30	96	1117	0.62	ng/uL	0.00
5) Phenol-d5	6.98	99	28030	4.33	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.15	67	31024	8.26	ng/ul	0.00
9) 2-Chlorophenol-d4	7.35	132	19695	3.64	ng/ul	0.00
13) 4-Methylphenol-d8	8.52	113	10585	1.99	ng/ul	0.00
19) Nitrobenzene-d5	8.97	128	22193	8.97	ng/ul	0.00
22) 2-Nitrophenol-d4	9.69	143	8645	3.17	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.23	165	15674	3.05	ng/ul	0.00
29) 4-Chloroaniline-d4	10.75	131	43231	8.41	ng/ul	0.00
43) Dimethylphthalate-d6	13.86	166	145166	11.20	ng/ul	0.00
46) Acenaphthylene-d8	14.15	160	190702	11.76	ng/ul	0.00
51) 4-Nitrophenol-d4	14.67	143	4208	1.72	ng/ul	0.02
57) Fluorene-d10	15.45	176	117993	10.46	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.56	200	9693	6.63	ng/ul	0.00
70) Anthracene-d10	17.30	188	116055	9.59	ng/ul	0.01
76) Pyrene-d10	19.62	212	144997	15.44	ng/ul	0.04
87) Benzo(a)pyrene-d12	23.59	264	106218	7.42	ng/ul	0.09

Target Compounds

					Qvalue
14) Acetophenone	8.63	105	9833	1.23 ng/ul#	85
28) Naphthalene	10.66	128	36937	2.27 ng/ul	97
34) 2-Methylnaphthalene	12.27	142	79883	6.71 ng/ul	97
40) 1,1'-Biphenyl	13.29	154	80101	6.01 ng/ul	97
44) Dimethylphthalate	13.90	163	36045	2.81 ng/ul#	84
45) 2,6-Dinitrotoluene	14.07	165	2926	1.13 ng/ul#	17
47) Acenaphthylene	14.18	152	23839	1.45 ng/ul#	1
48) 3-Nitroaniline	14.37	138	5586	2.33 ng/ul#	43
49) Acenaphthene	14.52	153	51185	4.71 ng/ul	90
52) 4-Nitrophenol	14.69	109	2645	1.07 ng/ul#	27
53) Dibenzofuran	14.86	168	62619	4.04 ng/ul#	44
54) 2,4-Dinitrotoluene	14.82	165	7314	1.93 ng/ul#	75
58) Fluorene	15.50	166	66314	5.34 ng/ul#	66
63) 4,6-Dinitro-2-methylphenol	15.55	198	3028	1.97 ng/ul#	1
64) N-Nitrosodiphenylamine	15.72	169	143428	18.60 ng/ul#	51
69) Phenanthrene	17.25	178	746699	52.58 ng/ul#	90
71) Anthracene	17.34	178	94484	6.53 ng/ul#	49
74) Fluoranthene	19.29	202	399771	25.01 ng/ul#	91
77) Pyrene	19.66	202	375093	31.46 ng/ul#	90
79) 3,3'-Dichlorobenzidine	21.31	252	15477	4.12 ng/ul#	6
80) Benzo(a)anthracene	21.40	228	75377	6.18 ng/ul#	20
81) Bis(2-ethylhexyl)phthalate	21.32	149	8783	1.24 ng/ul#	1
82) Chrysene	21.44	228	175738	15.15 ng/ul#	46

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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

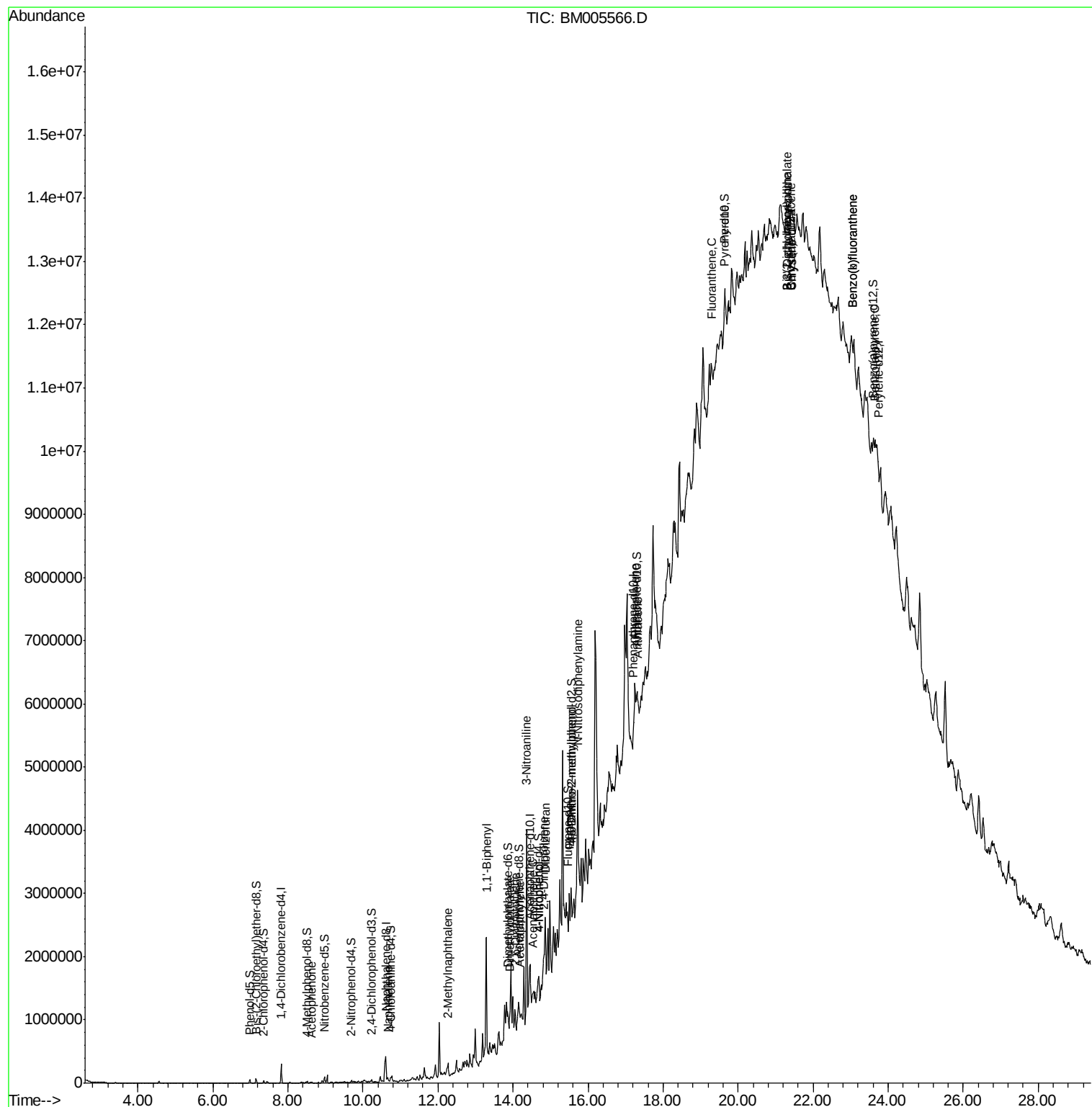
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Benzo(b)fluoranthene	23.05	252	85654	4.74	ng/ul#	1
86) Benzo(k)fluoranthene	23.05	252	93541	5.46	ng/ul#	1
88) Benzo(a)pyrene	23.63	252	22360	1.27	ng/ul#	1

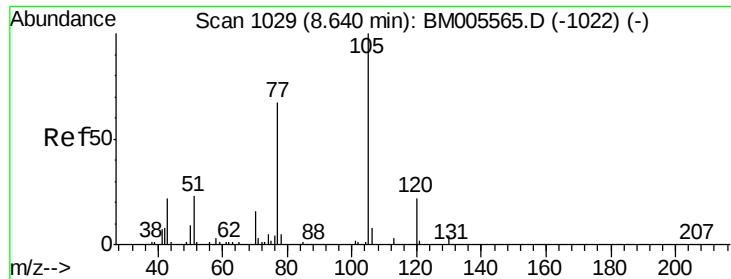
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
BNA_M
ClientSampled :
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QLast Update : Sun May 22 05:33:20 2016
Response via : Initial Calibration





#14

Acetophenone

Concen: 1.23 ng/ul

RT: 8.63 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

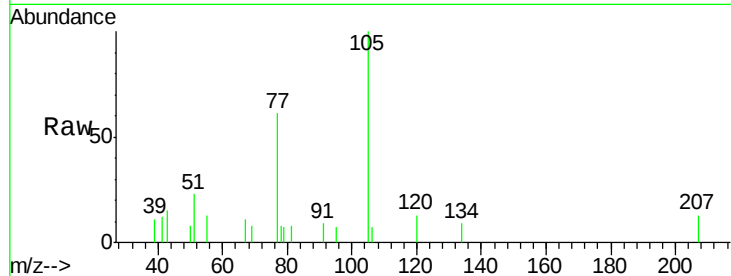
Tgt Ion:105 Resp: 9833

Ion Ratio Lower Upper

105 100

77 60.5 60.8 91.2#

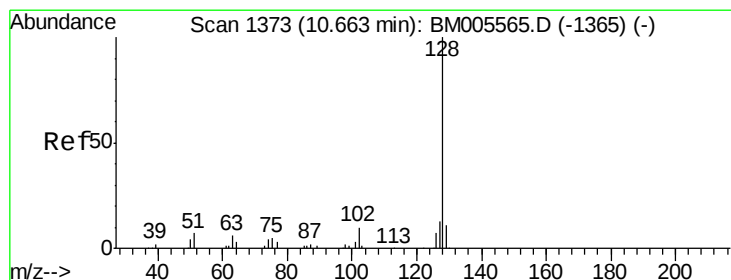
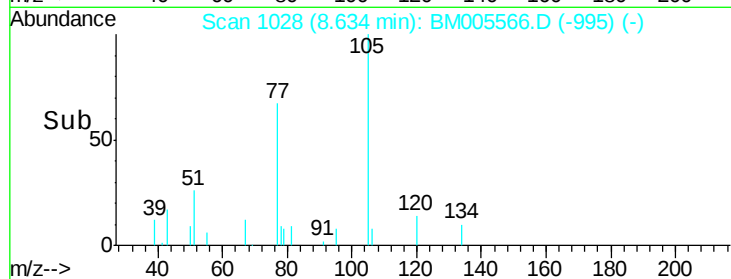
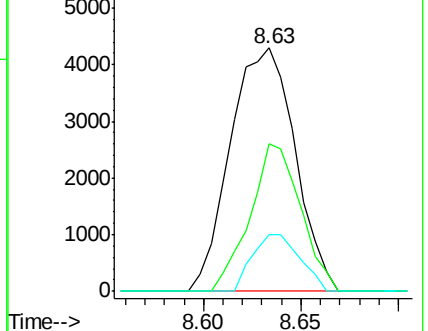
51 23.2 22.2 33.2



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#28

Naphthalene

Concen: 2.27 ng/ul

RT: 10.66 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

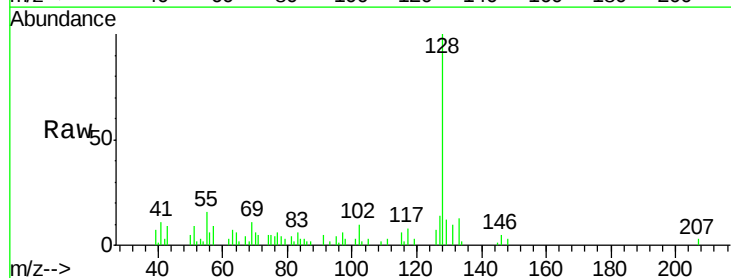
Tgt Ion:128 Resp: 36937

Ion Ratio Lower Upper

128 100

129 12.3 8.6 13.0

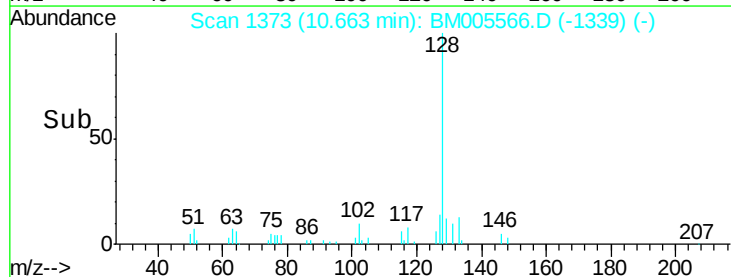
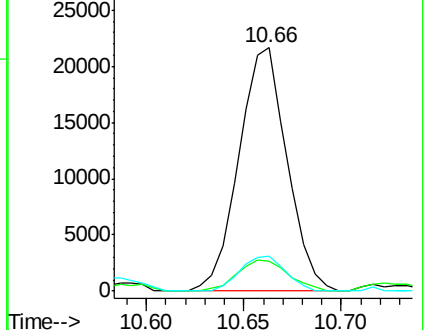
127 14.3 10.6 15.8

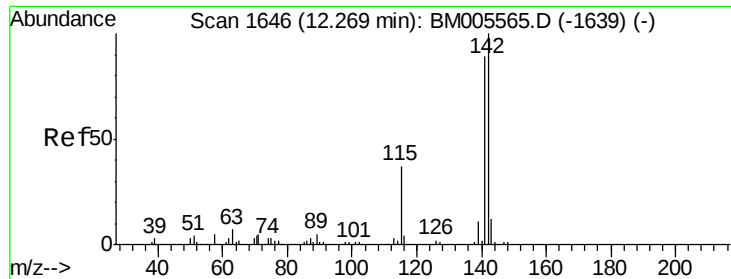


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

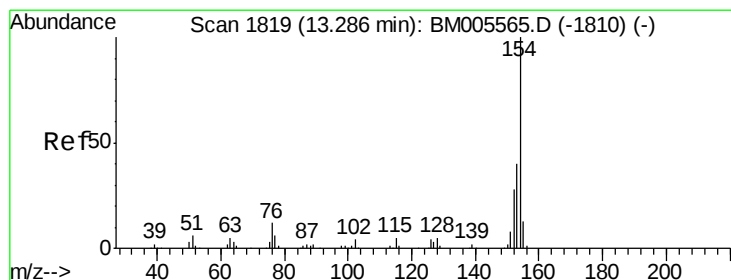
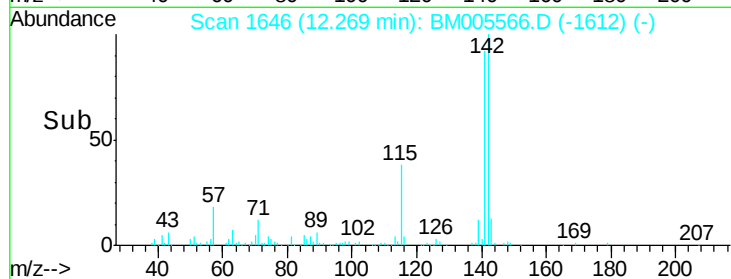
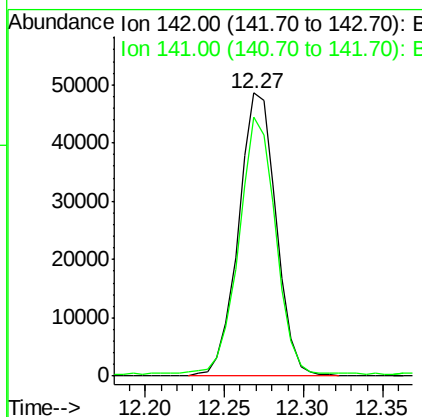
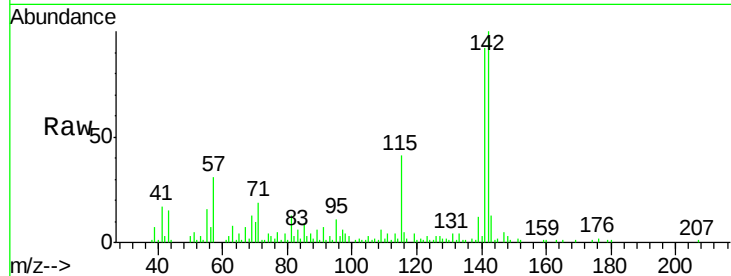




#34
 2-Methylnaphthalene
 Concen: 6.71 ng/ul
 RT: 12.27 min Scan# 1646
 Delta R.T. 0.00 min
 Lab File: BM005566.D
 Acq: 22 May 2016 00:36

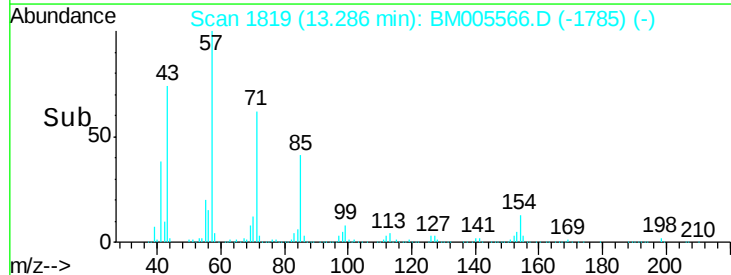
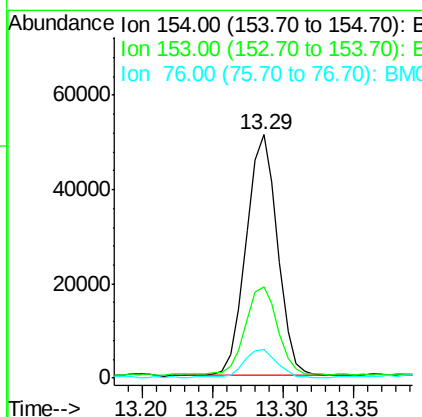
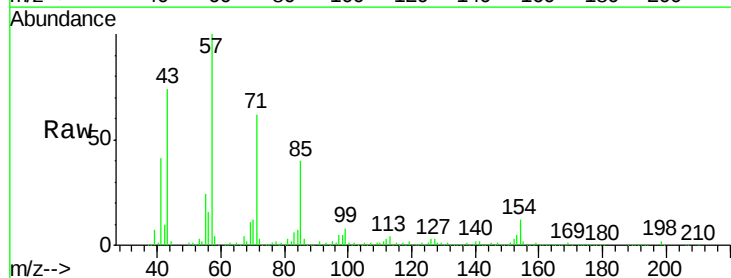
Instrument :
 BNA_M
 ClientSampleId :
 E5NG0

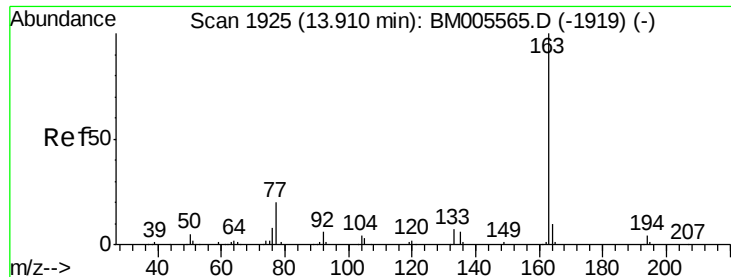
Tgt Ion:142 Resp: 79883
 Ion Ratio Lower Upper
 142 100
 141 91.5 70.6 106.0



#40
 1,1'-Biphenyl
 Concen: 6.01 ng/ul
 RT: 13.29 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: BM005566.D
 Acq: 22 May 2016 00:36

Tgt Ion:154 Resp: 80101
 Ion Ratio Lower Upper
 154 100
 153 37.7 31.7 47.5
 76 11.8 10.1 15.1





#44

Dimethylphthalate

Concen: 2.81 ng/ul

RT: 13.90 min Scan# 1924

Delta R.T. -0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

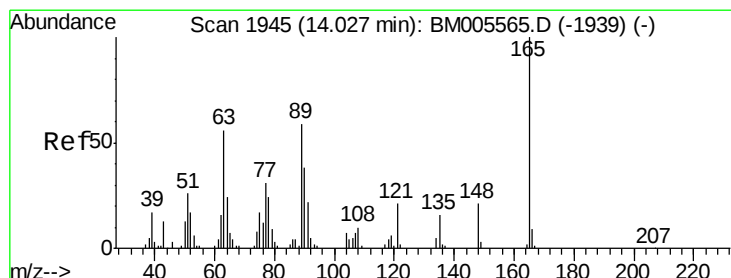
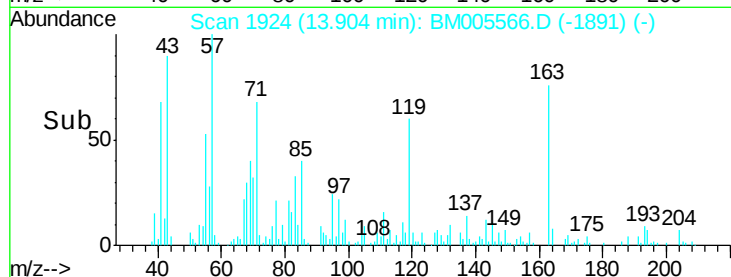
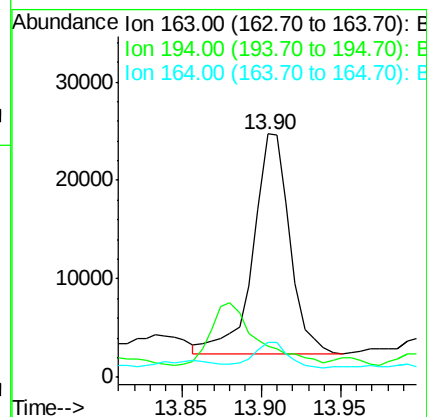
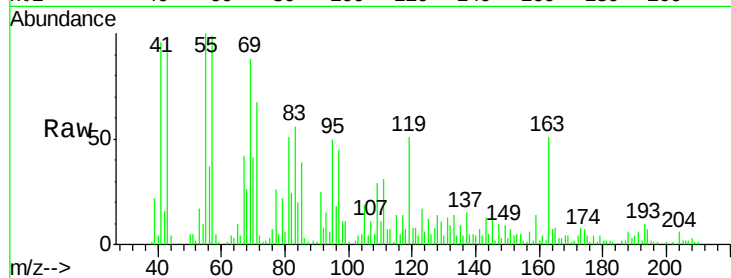
Tgt Ion:163 Resp: 36045

Ion Ratio Lower Upper

163 100

194 13.0 3.4 5.0#

164 14.3 8.0 12.0#



#45

2,6-Dinitrotoluene

Concen: 1.13 ng/ul

RT: 14.07 min Scan# 1952

Delta R.T. 0.04 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

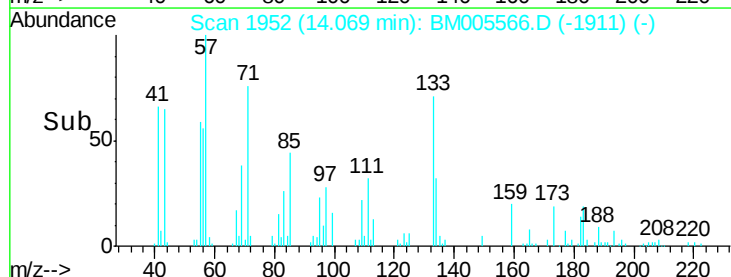
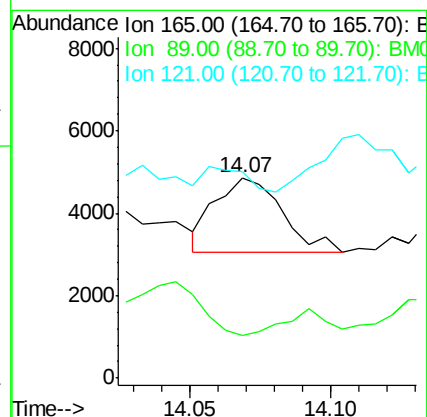
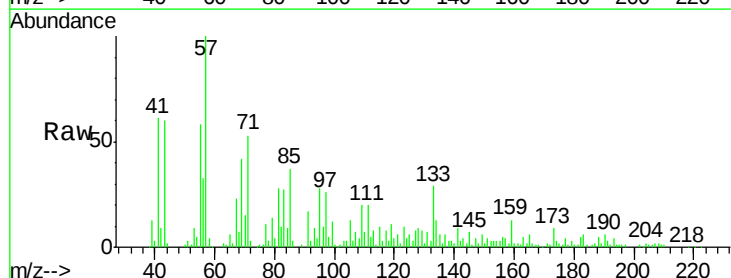
Tgt Ion:165 Resp: 2926

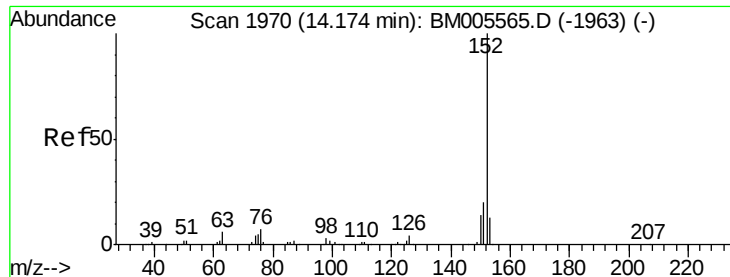
Ion Ratio Lower Upper

165 100

89 21.3 48.2 72.2#

121 102.9 17.4 26.0#





#47

Acenaphthylene

Concen: 1.45 ng/ul

RT: 14.18 min Scan# 1971

Delta R.T. 0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

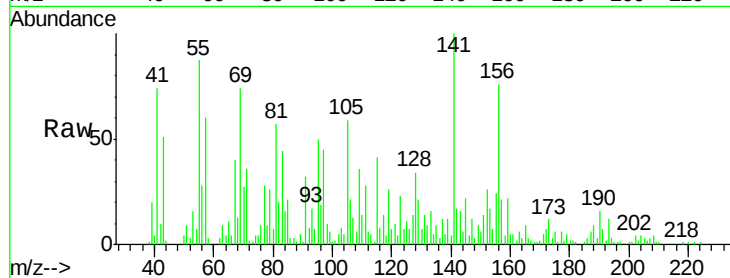
Tgt Ion:152 Resp: 23839

Ion Ratio Lower Upper

152 100

151 56.6 15.7 23.5#

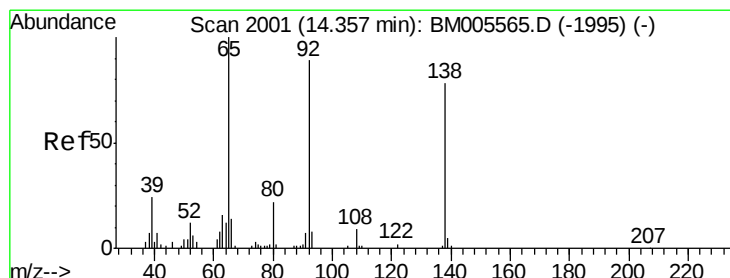
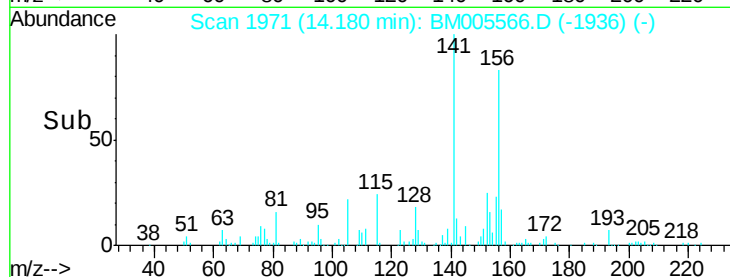
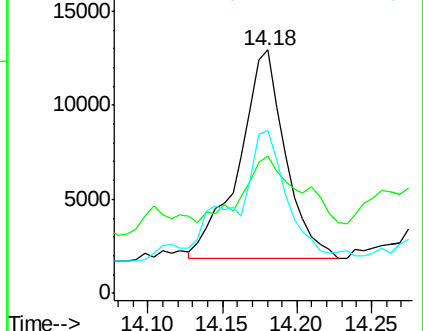
153 67.1 10.5 15.7#



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



#48

3-Nitroaniline

Concen: 2.33 ng/ul

RT: 14.37 min Scan# 2003

Delta R.T. 0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

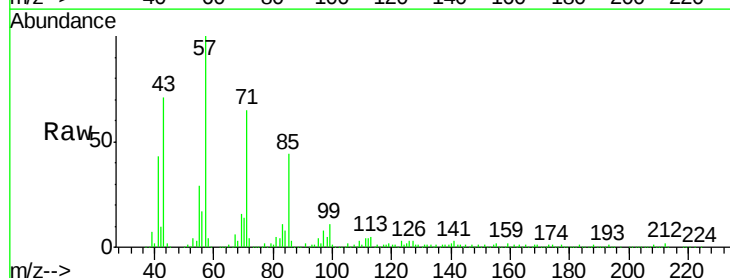
Tgt Ion:138 Resp: 5586

Ion Ratio Lower Upper

138 100

108 70.8 9.1 13.7#

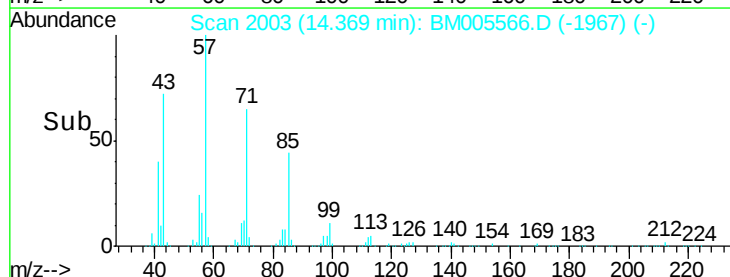
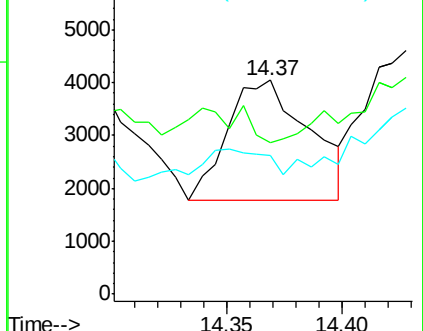
92 64.8 92.8 139.2#

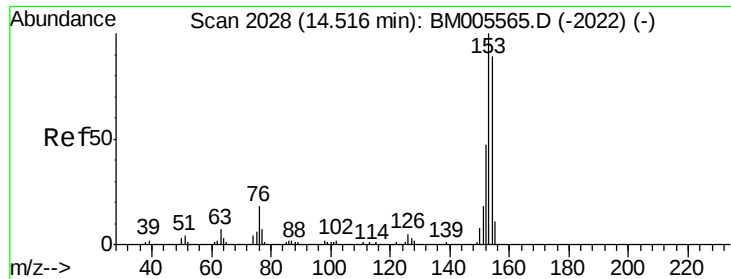


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BM





#49

Acenaphthene

Concen: 4.71 ng/ul

RT: 14.52 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BM005566.D

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ClientSampleId :

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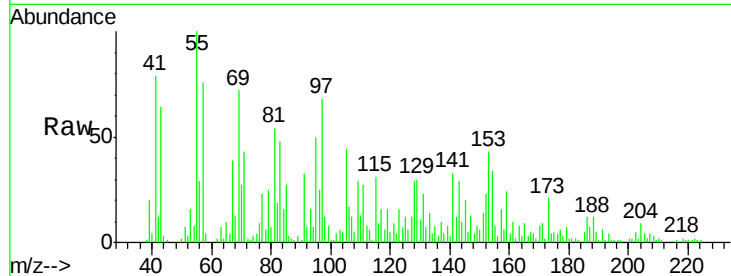
Tgt Ion:153 Resp: 51185

Ion Ratio Lower Upper

153 100

152 54.9 37.8 56.6

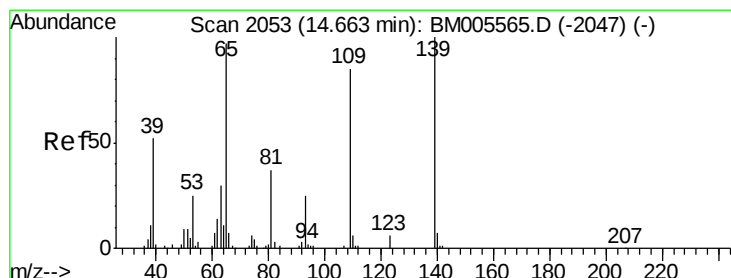
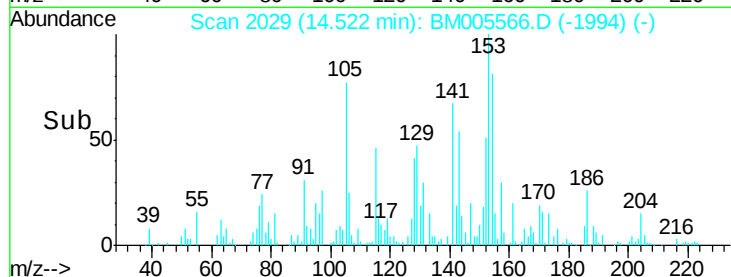
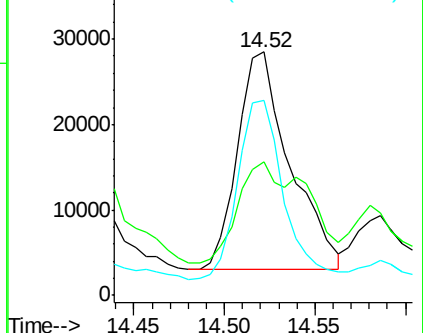
154 80.0 71.1 106.7



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



#52

4-Nitrophenol

Concen: 1.07 ng/ul

RT: 14.69 min Scan# 2057

Delta R.T. 0.02 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

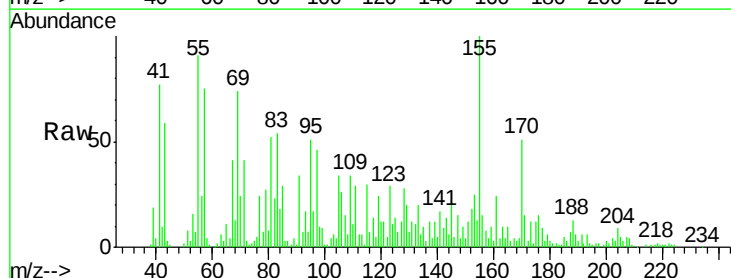
Tgt Ion:109 Resp: 2645

Ion Ratio Lower Upper

109 100

139 36.5 87.5 131.3#

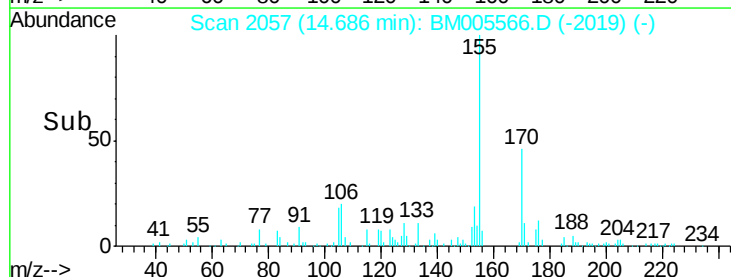
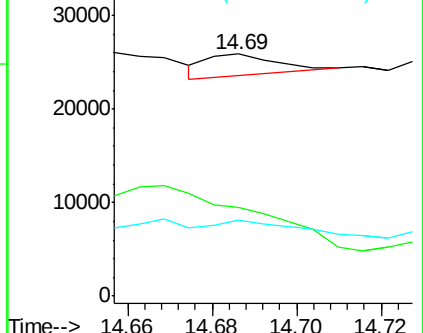
65 31.4 90.2 135.2#

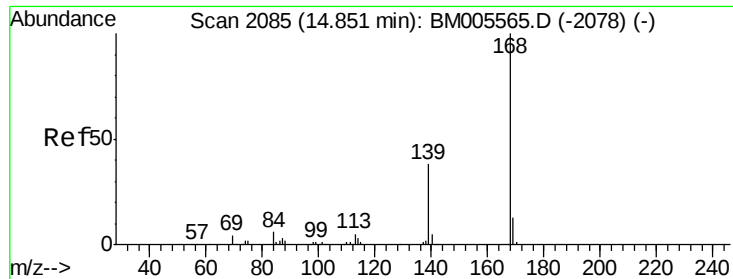


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BM





#53

Dibenzofuran

Concen: 4.04 ng/ul

RT: 14.86 min Scan# 2086

Delta R.T. 0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

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ClientSampleId :

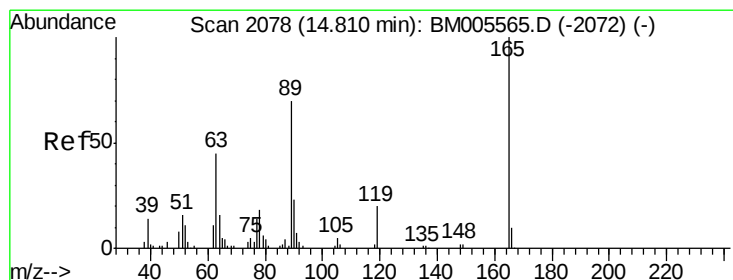
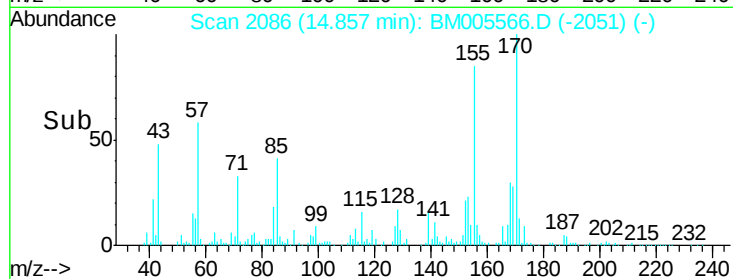
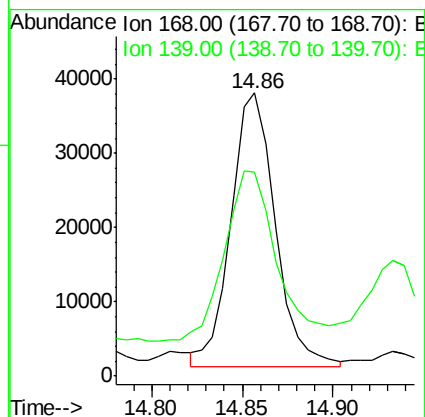
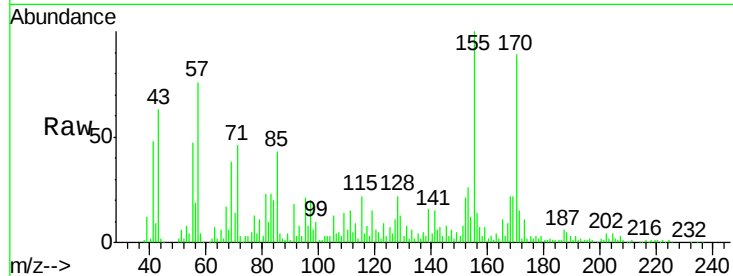
E5NG0

Tgt Ion:168 Resp: 62619

Ion Ratio Lower Upper

168 100

139 71.9 30.6 46.0#



#54

2,4-Dinitrotoluene

Concen: 1.93 ng/ul

RT: 14.82 min Scan# 2079

Delta R.T. 0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

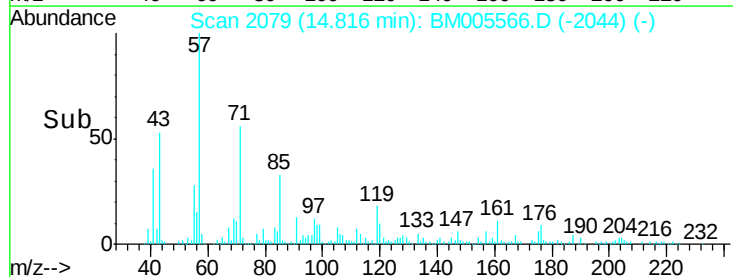
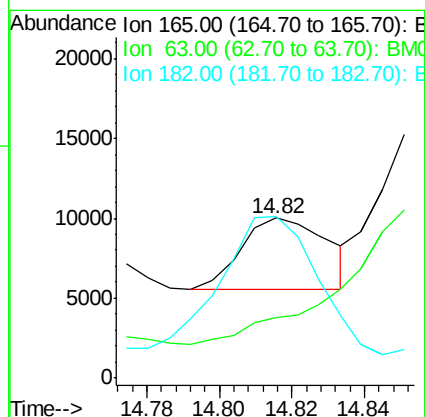
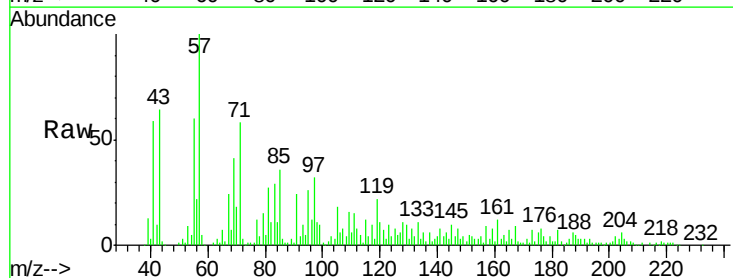
Tgt Ion:165 Resp: 7314

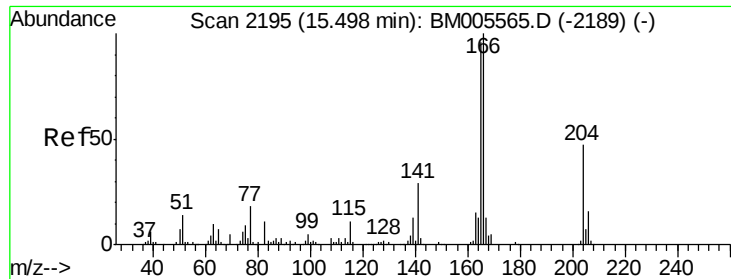
Ion Ratio Lower Upper

165 100

63 38.0 33.9 50.9

182 101.3 2.3 3.5#





#58

Fluorene

Concen: 5.34 ng/ul

RT: 15.50 min Scan# 2196

Delta R.T. 0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

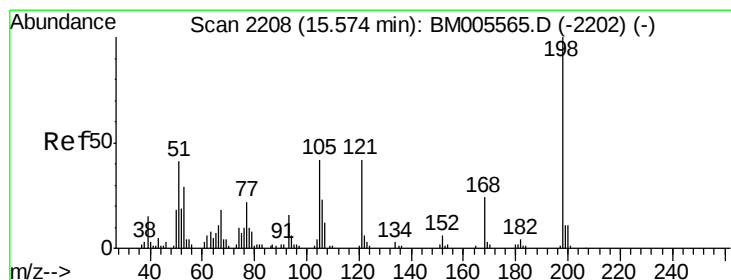
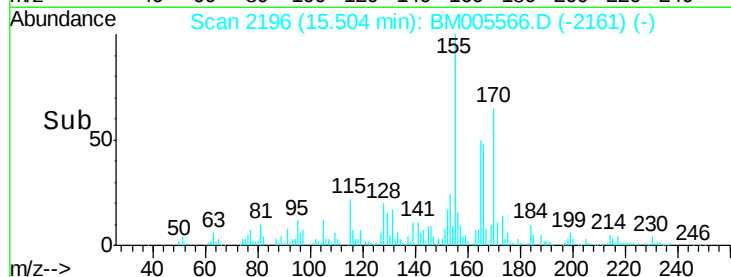
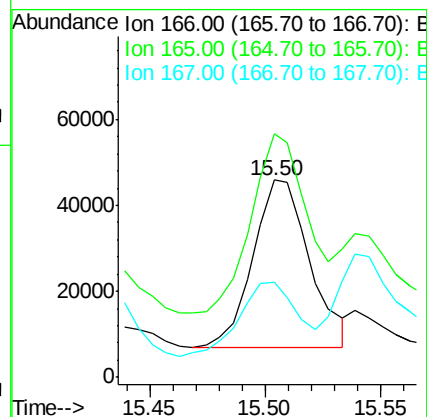
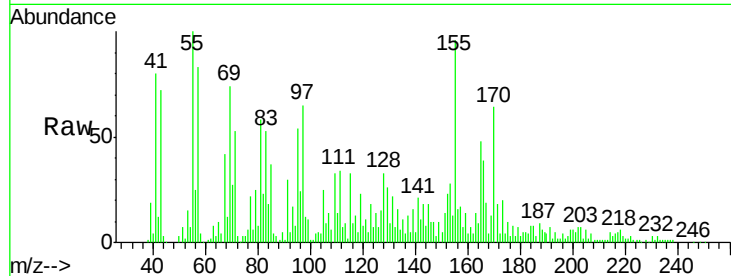
Tgt Ion:166 Resp: 66314

Ion Ratio Lower Upper

166 100

165 123.6 78.0 117.0#

167 48.5 10.5 15.7#



#63

4,6-Dinitro-2-methylphenol

Concen: 1.97 ng/ul

RT: 15.55 min Scan# 2204

Delta R.T. -0.02 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

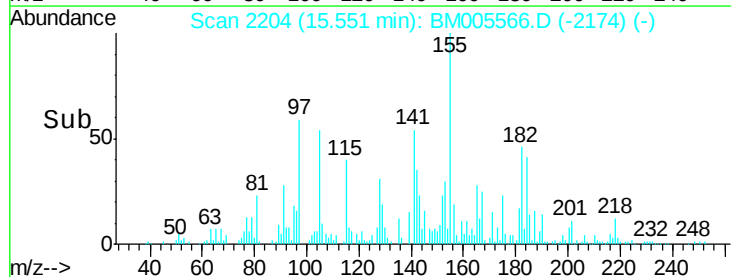
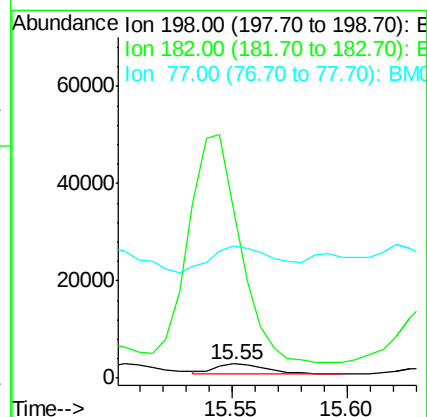
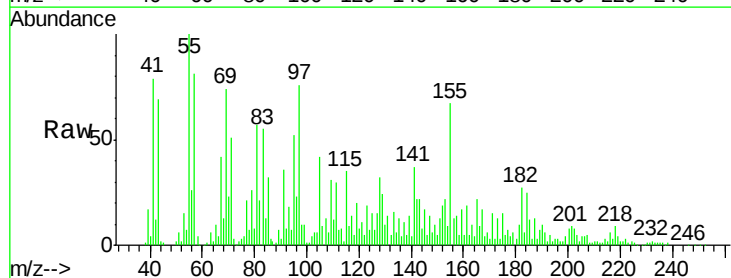
Tgt Ion:198 Resp: 3028

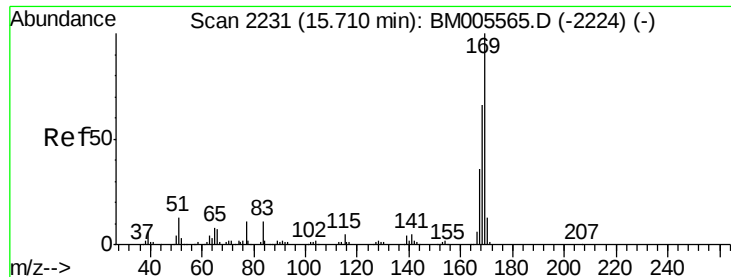
Ion Ratio Lower Upper

198 100

182 1199.5 2.5 3.7#

77 929.3 21.8 32.8#





#64

N-Nitrosodiphenylamine

Concen: 18.60 ng/ul

RT: 15.72 min Scan# 2233

Delta R.T. 0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

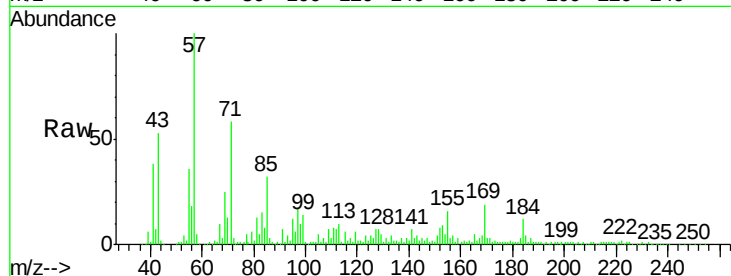
Tgt Ion:169 Resp: 143428

Ion Ratio Lower Upper

169 100

168 22.1 53.2 79.8#

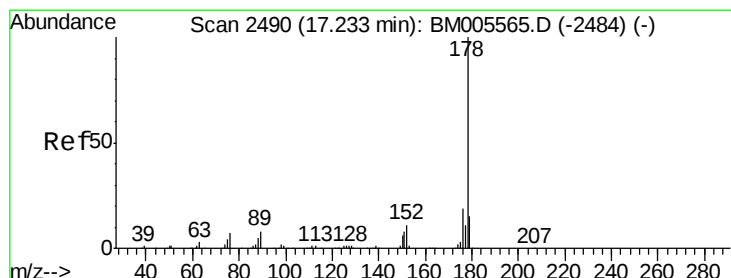
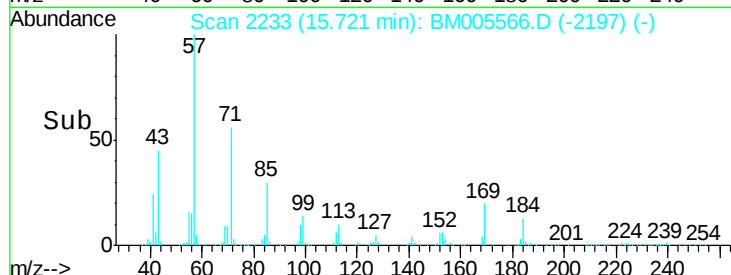
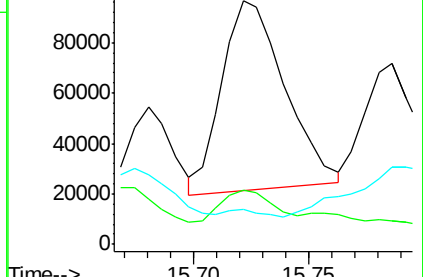
167 14.6 28.9 43.3#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 52.58 ng/ul

RT: 17.25 min Scan# 2493

Delta R.T. 0.02 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

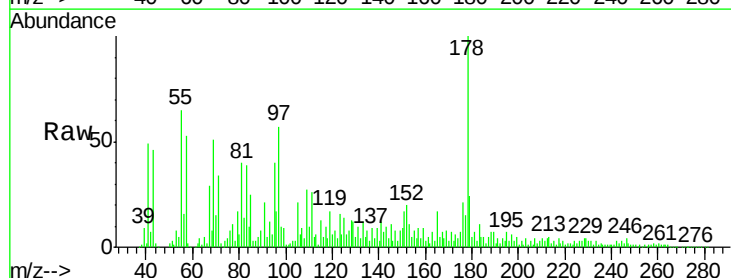
Tgt Ion:178 Resp: 746699

Ion Ratio Lower Upper

178 100

179 23.7 12.2 18.2#

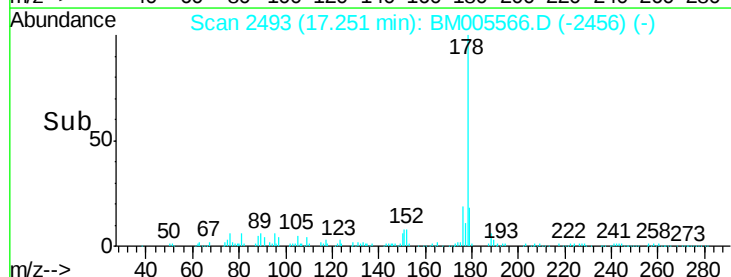
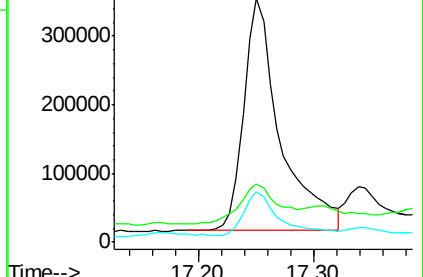
176 20.7 15.8 23.6

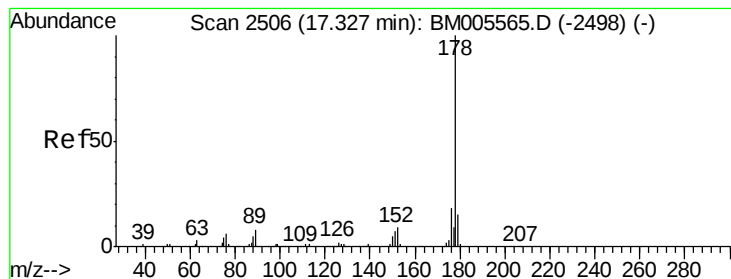


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 6.53 ng/ul

RT: 17.34 min Scan# 2508

Delta R.T. 0.01 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

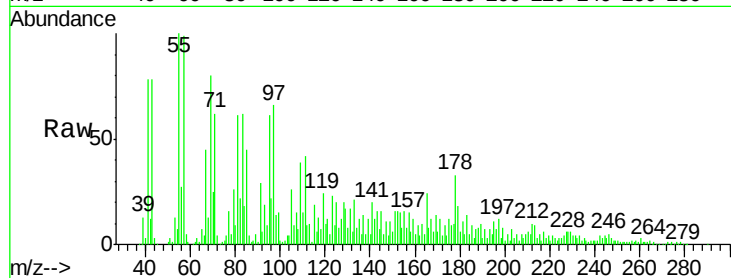
Tgt Ion:178 Resp: 94484

Ion Ratio Lower Upper

178 100

179 53.1 12.6 18.8#

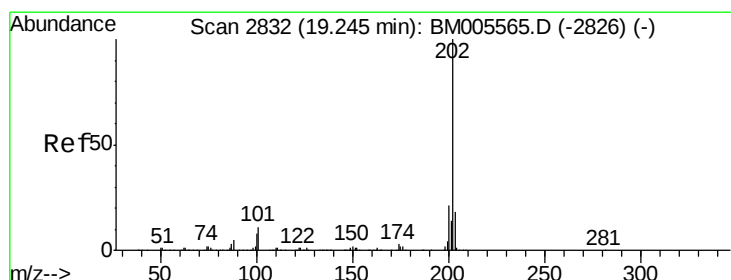
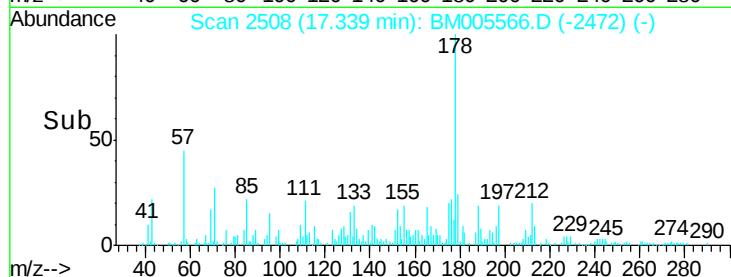
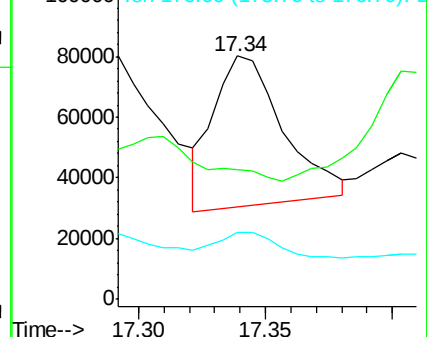
176 27.3 15.0 22.4#



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



#74

Fluoranthene

Concen: 25.01 ng/ul

RT: 19.29 min Scan# 2839

Delta R.T. 0.04 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

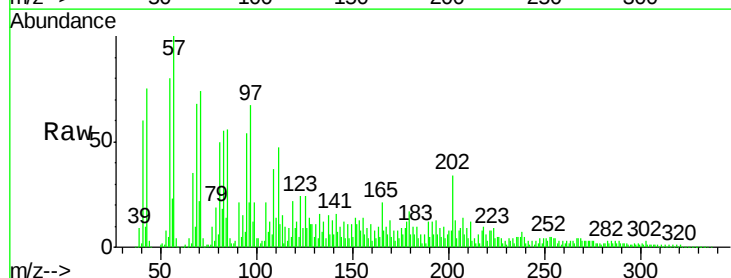
Tgt Ion:202 Resp: 399771

Ion Ratio Lower Upper

202 100

101 12.4 7.9 11.9#

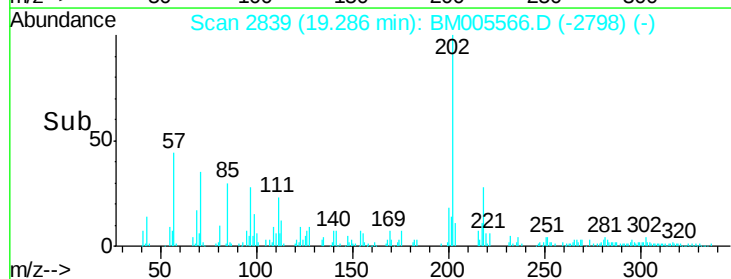
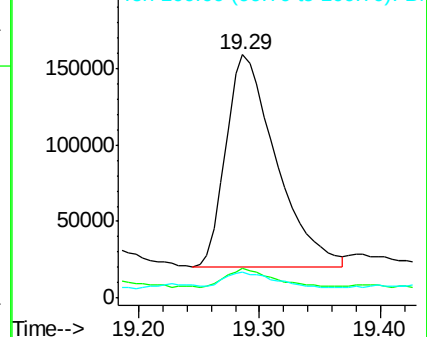
100 10.9 5.6 8.4#

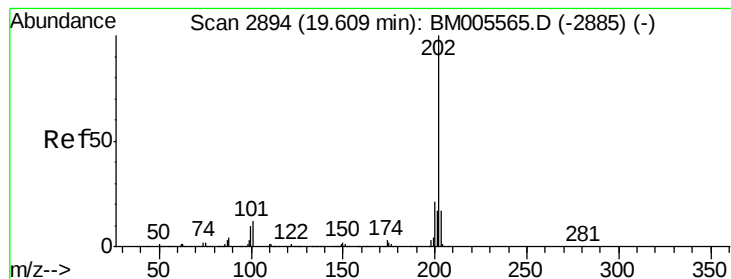


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 31.46 ng/ul

RT: 19.66 min Scan# 2902

Delta R.T. 0.05 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

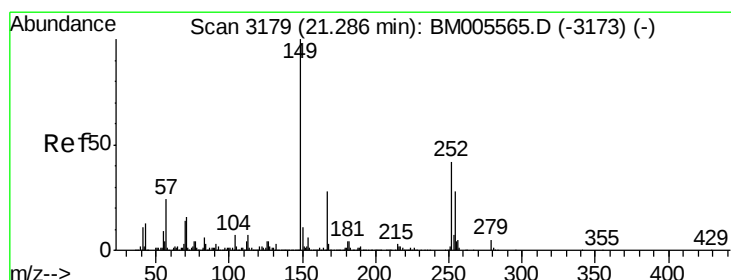
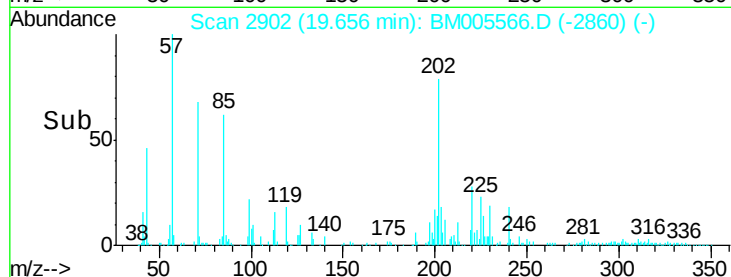
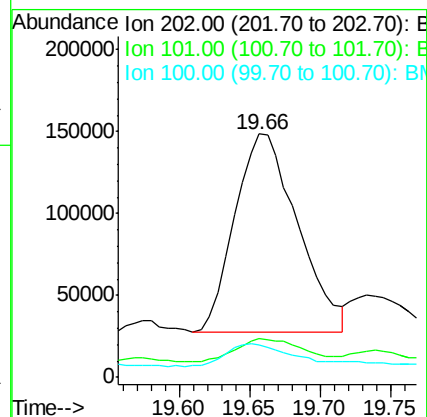
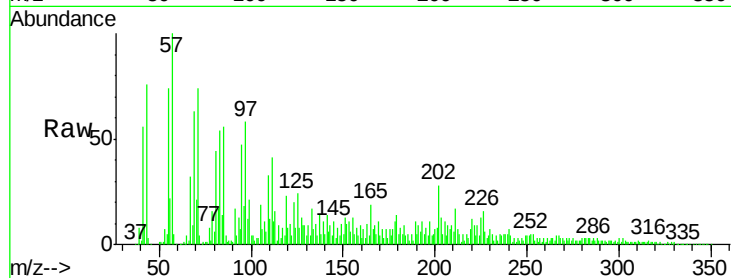
Tgt Ion:202 Resp: 375093

Ion Ratio Lower Upper

202 100

101 15.8 9.6 14.4#

100 13.3 7.8 11.6#



#79

3,3'-Dichlorobenzidine

Concen: 4.12 ng/ul

RT: 21.31 min Scan# 3183

Delta R.T. 0.02 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

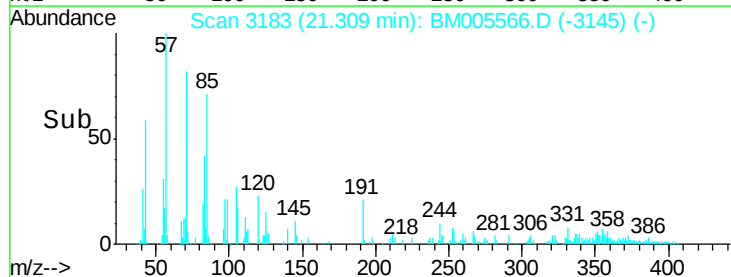
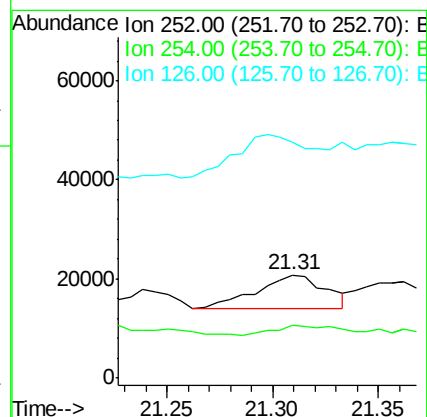
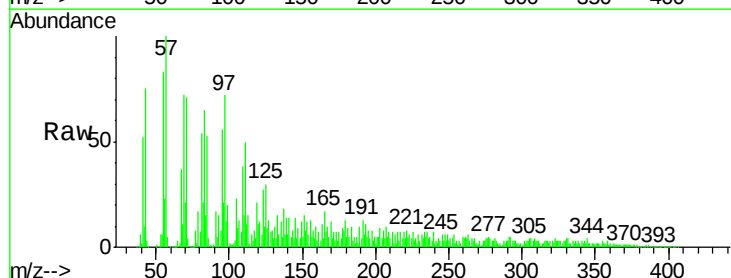
Tgt Ion:252 Resp: 15477

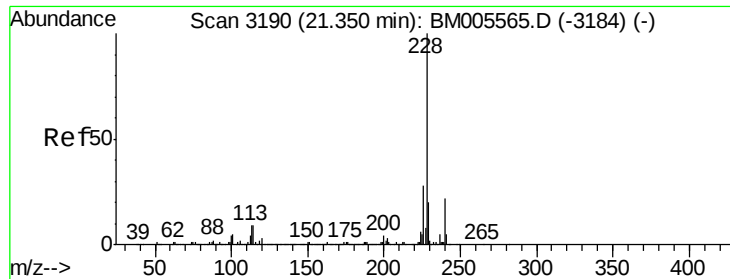
Ion Ratio Lower Upper

252 100

254 51.0 51.7 77.5#

126 229.2 7.9 11.9#





#80

Benzo(a)anthracene

Concen: 6.18 ng/ul

RT: 21.40 min Scan# 3199

Delta R.T. 0.05 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

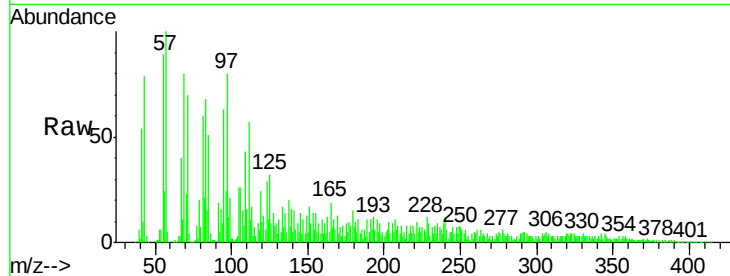
Tgt Ion:228 Resp: 75377

Ion Ratio Lower Upper

228 100

229 74.7 15.4 23.2#

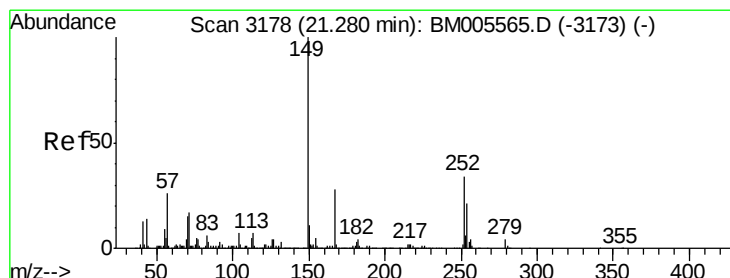
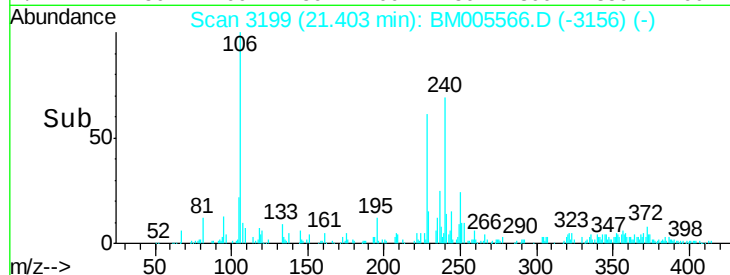
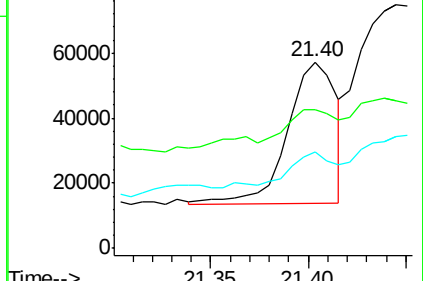
226 51.7 21.0 31.4#



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



#81

Bis(2-ethylhexyl)phthalate

Concen: 1.24 ng/ul

RT: 21.32 min Scan# 3184

Delta R.T. 0.04 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

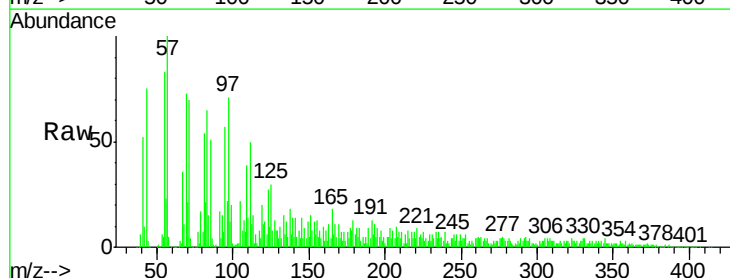
Tgt Ion:149 Resp: 8783

Ion Ratio Lower Upper

149 100

167 84.1 22.0 33.0#

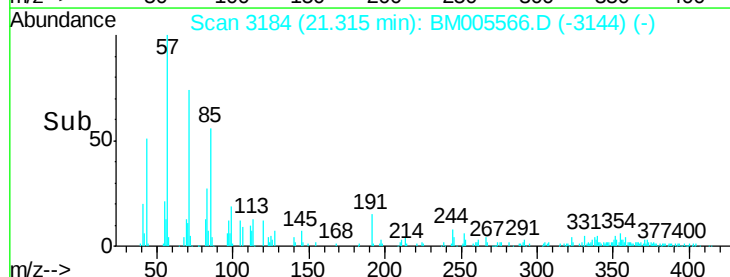
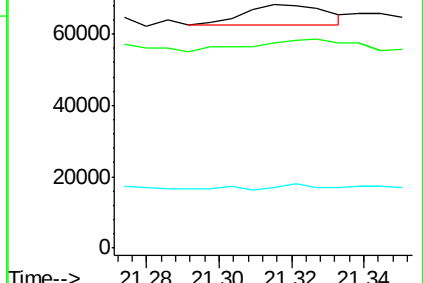
279 25.0 3.8 5.8#

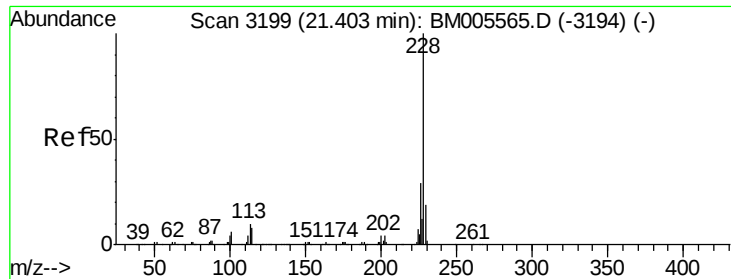


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#82

Chrysene

Concen: 15.15 ng/ul

RT: 21.44 min Scan# 3206

Delta R.T. 0.04 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

Instrument :

BNA_M

ClientSampleId :

E5NG0

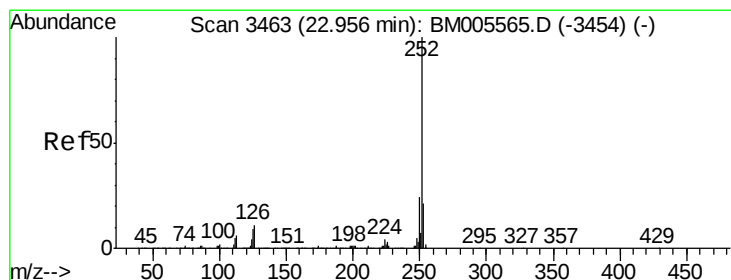
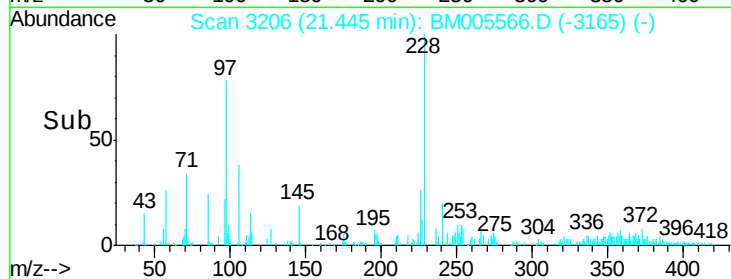
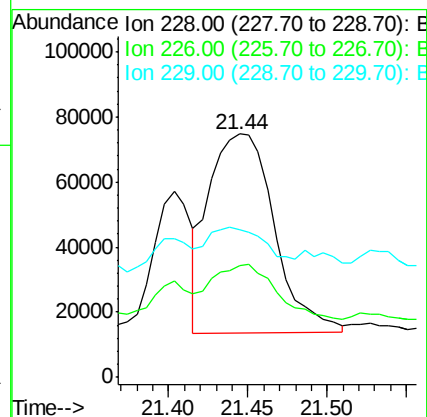
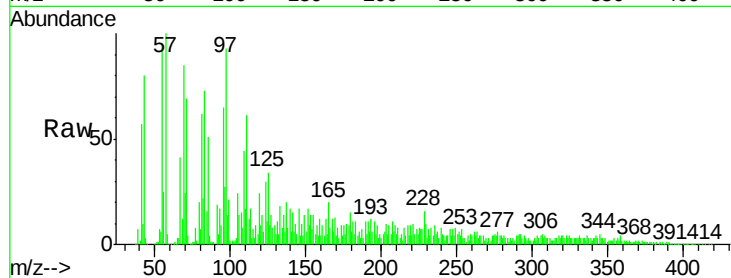
Tgt Ion:228 Resp: 175738

Ion Ratio Lower Upper

228 100

226 45.9 23.7 35.5#

229 60.8 15.5 23.3#



#85

Benzo(b)fluoranthene

Concen: 4.74 ng/ul

RT: 23.05 min Scan# 3479

Delta R.T. 0.09 min

Lab File: BM005566.D

Acq: 22 May 2016 00:36

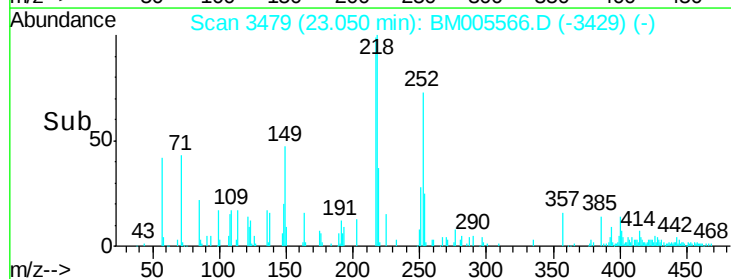
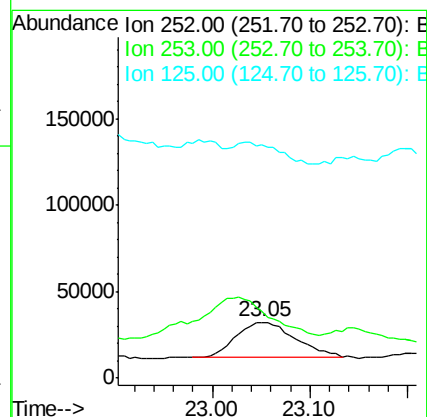
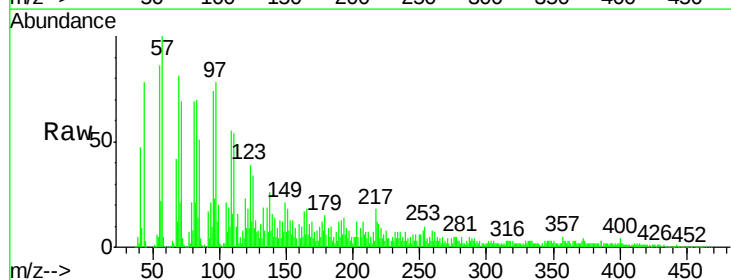
Tgt Ion:252 Resp: 85654

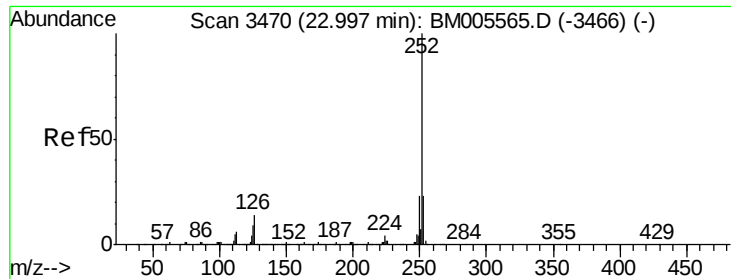
Ion Ratio Lower Upper

252 100

253 120.2 17.3 25.9#

125 419.6 7.0 10.4#

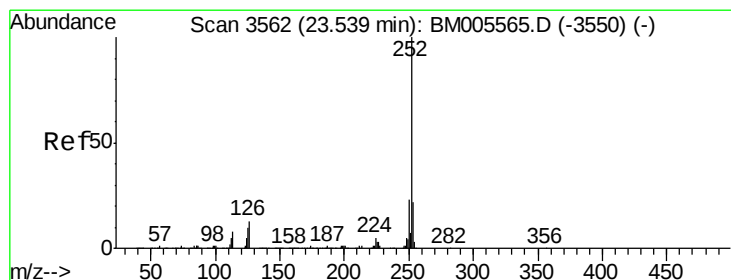
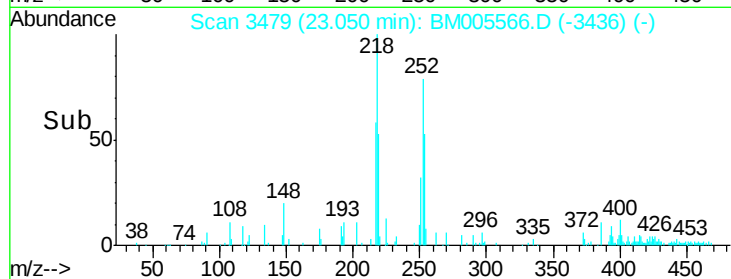
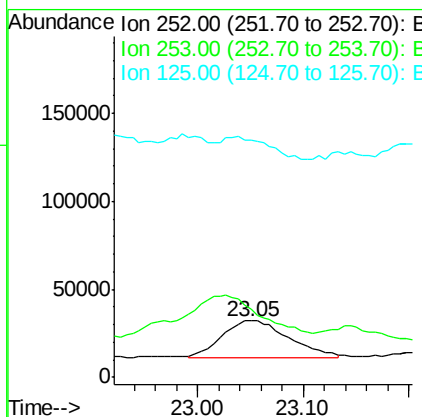
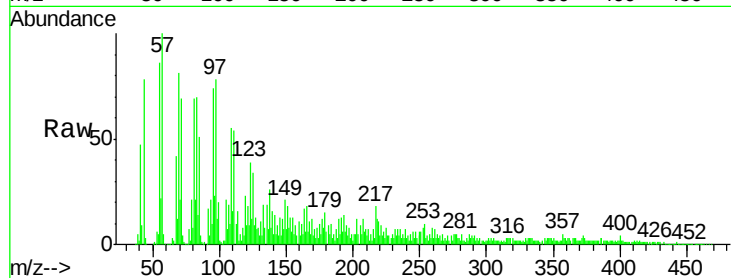




#86
Benzo(k)fluoranthene
Concen: 5.46 ng/ul
RT: 23.05 min Scan# 3479
Delta R.T. 0.05 min
Lab File: BM005566.D
Acq: 22 May 2016 00:36

Instrument :
BNA_M
ClientSampleId :
E5NG0

Tgt Ion:252 Resp: 93541
Ion Ratio Lower Upper
252 100
253 120.2 17.5 26.3#
125 419.6 7.0 10.6#



#88
Benzo(a)pyrene
Concen: 1.27 ng/ul
RT: 23.63 min Scan# 3578
Delta R.T. 0.09 min
Lab File: BM005566.D
Acq: 22 May 2016 00:36

Tgt Ion:252 Resp: 22360
Ion Ratio Lower Upper
252 100
253 116.5 17.6 26.4#
125 682.1 7.6 11.4#

