

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101117\  
 Data File : BM012083.D  
 Acq On : 11 Oct 2017 23:59  
 Operator : SJ/JU  
 Sample : I5568-03  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Oct 12 04:27:07 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Oct 12 04:22:15 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 294302   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.65 | 136  | 1284728  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.49 | 164  | 815948   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.23 | 188  | 2019602  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.41 | 240  | 1997603  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.73 | 264  | 1655076  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 23191   | 3.73  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.00  | 99  | 428911  | 16.94 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.17  | 67  | 308210  | 20.57 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.37  | 132 | 335674  | 16.53 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.55  | 113 | 344255  | 15.73 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.00  | 128 | 210909  | 23.05 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.73  | 143 | 146489  | 14.22 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.27 | 165 | 277169  | 13.31 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.78 | 131 | 521026  | 22.93 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.89 | 166 | 1525157 | 21.57 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.18 | 160 | 1859946 | 22.38 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.68 | 143 | 594     | 0.05  | ng/ul | -0.01 |
| 57) Fluorene-d10               | 15.48 | 176 | 1338773 | 21.45 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.62 | 200 | 4752    | 0.35  | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.33 | 188 | 2165243 | 21.76 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.63 | 212 | 2533619 | 28.12 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.58 | 264 | 1708546 | 21.46 | ng/ul | 0.00  |

## Target Compounds

|                                |       |     |         |        | Ovalue |    |
|--------------------------------|-------|-----|---------|--------|--------|----|
| 4) Benzaldehyde                | 6.98  | 77  | 47052   | 3.729  | ng/ul# | 1  |
| 6) Phenol                      | 7.03  | 94  | 31088   | 1.241  | ng/ul# | 88 |
| 14) Acetophenone               | 8.64  | 105 | 111694  | 3.487  | ng/ul# | 28 |
| 15) N-Nitroso-di-n-propylamine | 8.70  | 70  | 956164  | 58.337 | ng/ul# | 30 |
| 17) Hexachloroethane           | 8.94  | 117 | 48444   | 6.083  | ng/ul# | 1  |
| 28) Naphthalene                | 10.69 | 128 | 348202  | 5.403  | ng/ul  | 96 |
| 34) 2-Methylnaphthalene        | 12.30 | 142 | 124554  | 2.535  | ng/ul  | 92 |
| 40) 1,1'-Biophenyl             | 13.32 | 154 | 275162  | 4.218  | ng/ul  | 99 |
| 44) Dimethylphthalate          | 13.94 | 163 | 602955  | 8.863  | ng/ul  | 99 |
| 47) Acenaphthylene             | 14.21 | 152 | 164554  | 2.042  | ng/ul  | 99 |
| 69) Phenanthrene               | 17.27 | 178 | 778785  | 7.010  | ng/ul  | 98 |
| 71) Anthracene                 | 17.37 | 178 | 268311  | 2.374  | ng/ul  | 98 |
| 74) Fluoranthene               | 19.29 | 202 | 2353684 | 17.365 | ng/ul# | 91 |
| 77) Pyrene                     | 19.66 | 202 | 2975856 | 26.867 | ng/ul# | 90 |
| 80) Benzo(a)anthracene         | 21.40 | 228 | 1239169 | 10.828 | ng/ul  | 96 |
| 81) Bis(2-ethylhexyl)phthalate | 21.30 | 149 | 115087  | 1.783  | ng/ul  | 99 |
| 82) Chrysene                   | 21.44 | 228 | 1152579 | 10.600 | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene       | 23.03 | 252 | 1042577 | 10.363 | ng/ul# | 94 |
| 86) Benzo(k)fluoranthene       | 23.03 | 252 | 1042577 | 10.381 | ng/ul# | 92 |
| 88) Benzo(a)pyrene             | 23.63 | 252 | 784466  | 8.115  | ng/ul# | 96 |
| 89) Indeno(1,2,3-cd)pyrene     | 26.09 | 276 | 438796  | 4.242  | ng/ul# | 95 |
| 90) Dibenzo(a,h)anthracene     | 26.09 | 278 | 129520  | 1.524  | ng/ul# | 81 |
| 91) Benzo(g,h,i)perylene       | 26.82 | 276 | 381883  | 4.463  | ng/ul# | 91 |

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BNA\_M  
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QLast Update : Thu Oct 12 04:22:15 2017  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

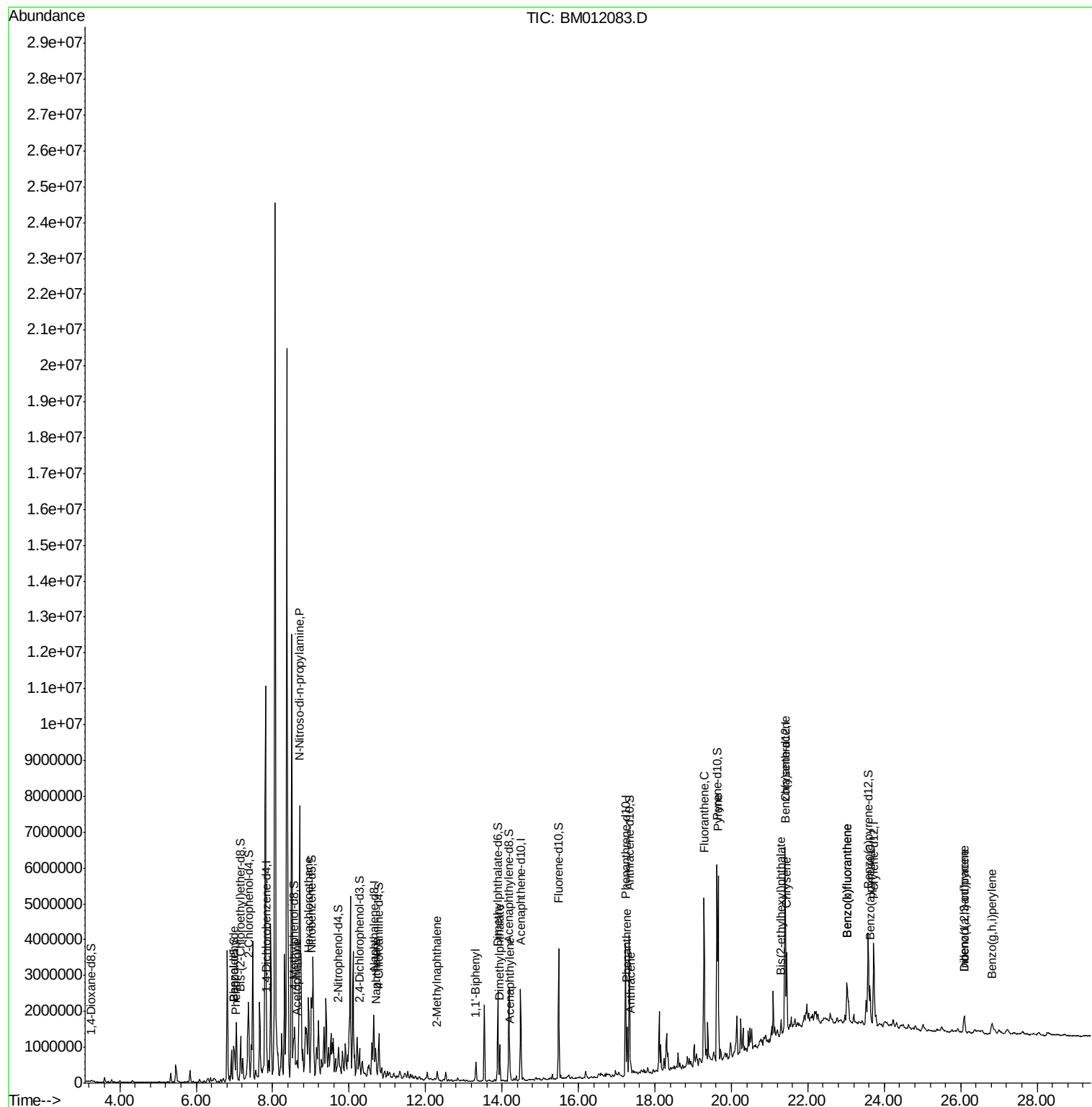
|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

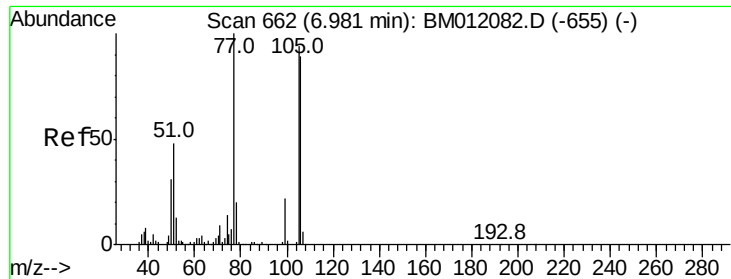
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM100317.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Oct 12 04:22:15 2017  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 3.729 ng/ul

RT: 6.98 min Scan# 661

Delta R.T. -0.01 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

Instrument :

BNA\_M

ClientSampled :

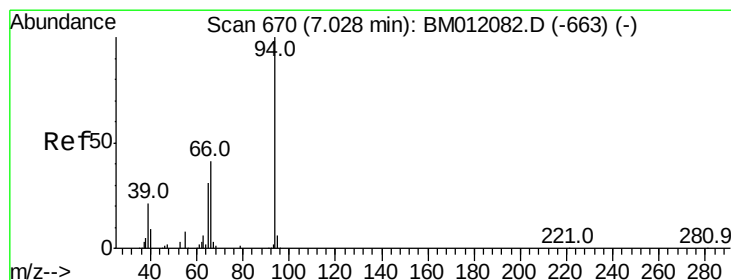
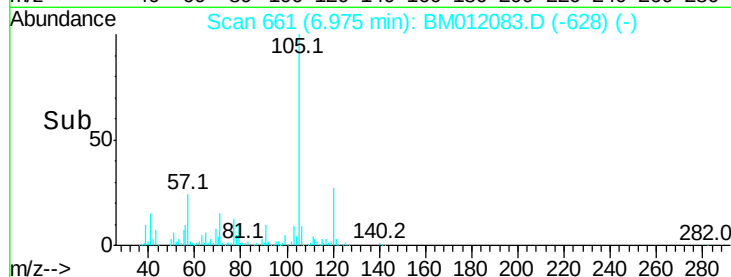
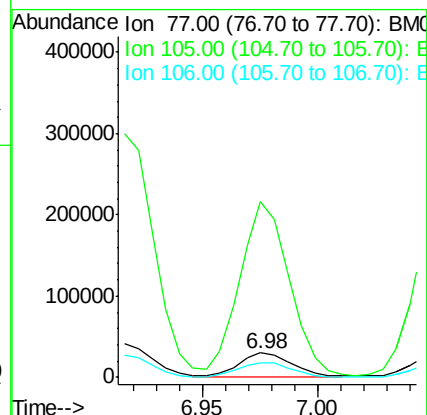
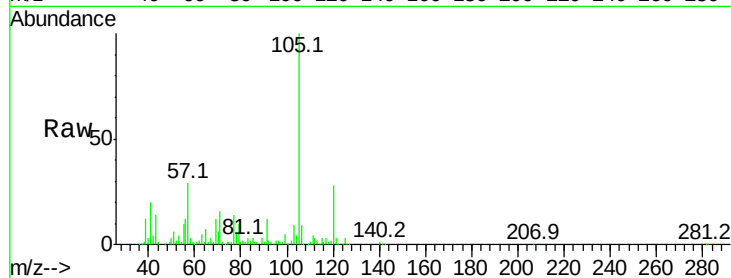
Tot Ion: 77 Resp: 47052

Ion Ratio Lower Upper

77 100

105 720.2 66.1 99.1#

106 61.9 67.8 101.6#



#6

Phenol

Concen: 1.241 ng/ul

RT: 7.03 min Scan# 670

Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

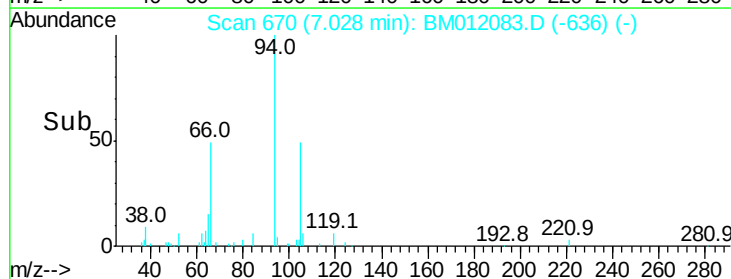
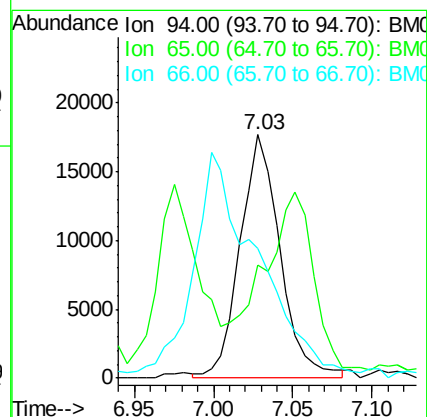
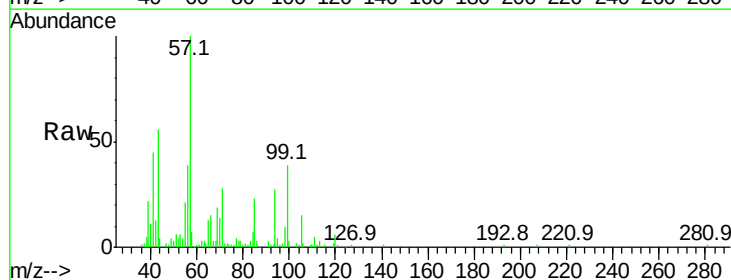
Tgt Ion: 94 Resp: 31088

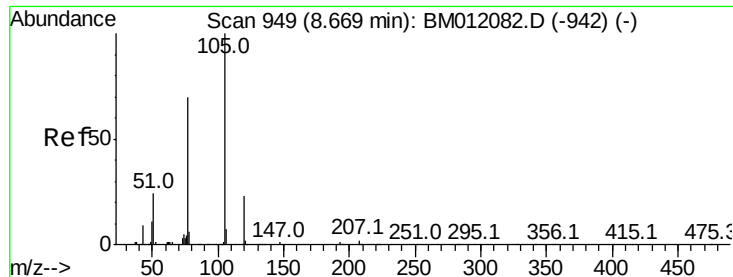
Ion Ratio Lower Upper

94 100

65 46.3 28.2 42.4#

66 53.3 47.2 70.8





#14

Acetophenone

Concen: 3.487 ng/ul

RT: 8.64 min Scan# 944

Delta R.T. -0.03 min

Lab File: BM012083.D

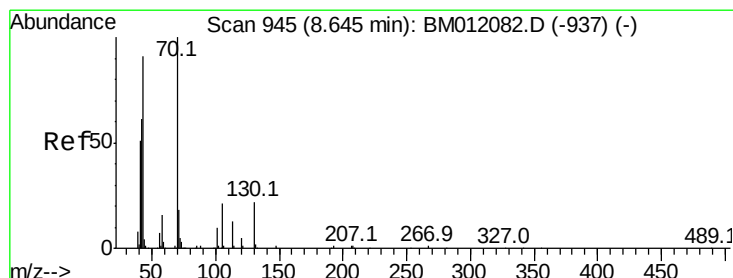
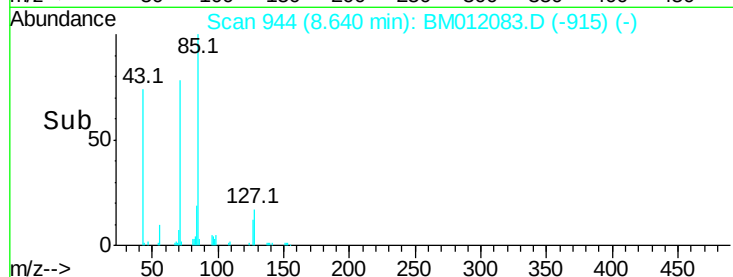
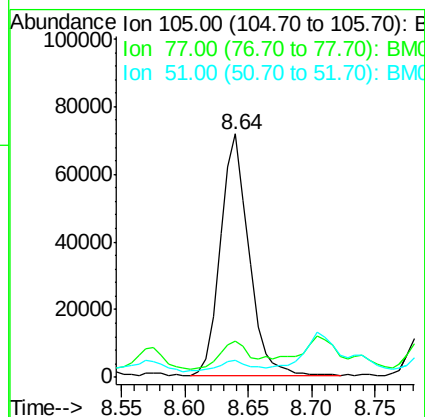
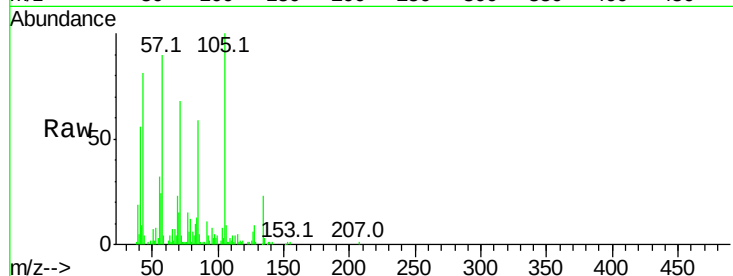
Acq: 11 Oct 2017 23:59

Instrument :

BNA\_M

ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 105   | Resp: | 111694 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 77        | 15.0  | 74.2  | 111.4# |
| 51        | 6.9   | 23.4  | 35.2#  |



#15

N-Nitroso-di-n-propylamine

Concen: 58.337 ng/ul

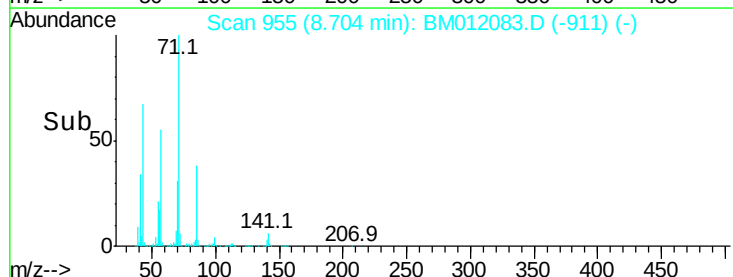
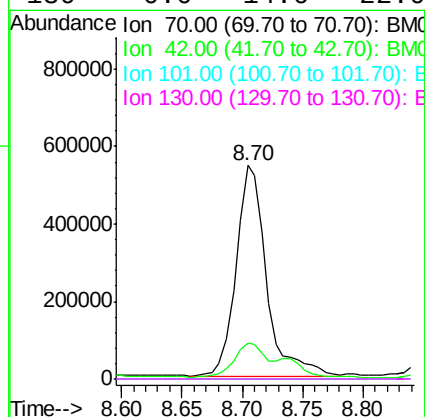
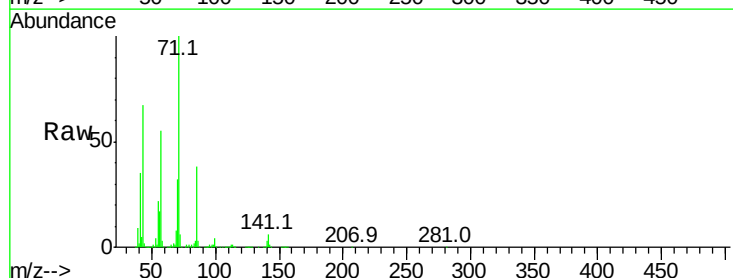
RT: 8.70 min Scan# 955

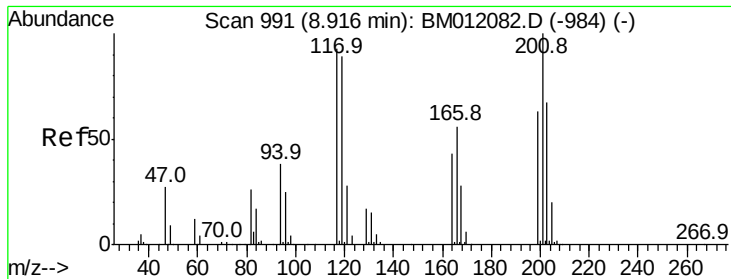
Delta R.T. 0.06 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 70    | Resp: | 956164 |
| Ion Ratio | Lower | Upper |        |
| 70        | 100   |       |        |
| 42        | 17.0  | 76.0  | 114.0# |
| 101       | 0.0   | 6.7   | 10.1#  |
| 130       | 0.0   | 14.6  | 22.0#  |





#17

Hexachloroethane

Concen: 6.083 ng/ul

RT: 8.94 min Scan# 995

Delta R.T. 0.02 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

Instrument :

BNA\_M

ClientSampleId :

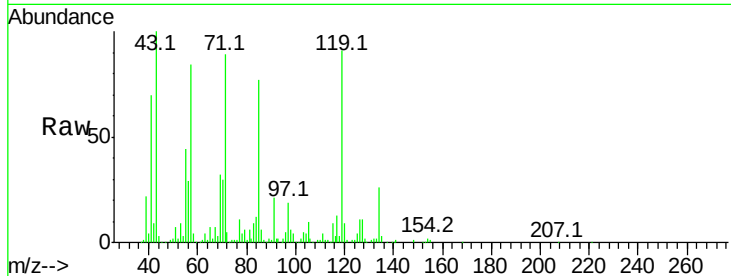
Tot Ion:117 Resp: 48444

Ion Ratio Lower Upper

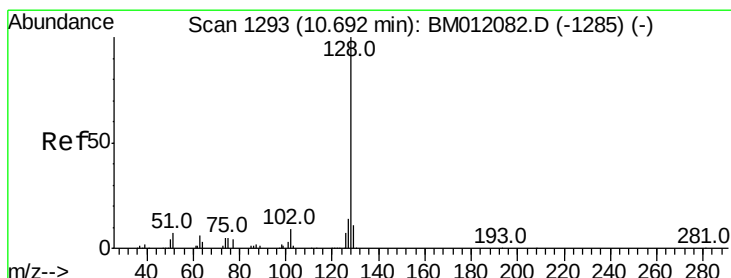
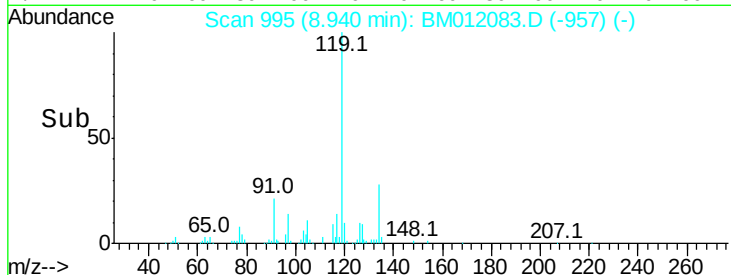
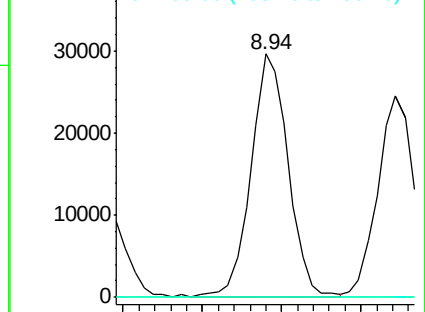
117 100

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: 5.403 ng/ul

RT: 10.69 min Scan# 1293

Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

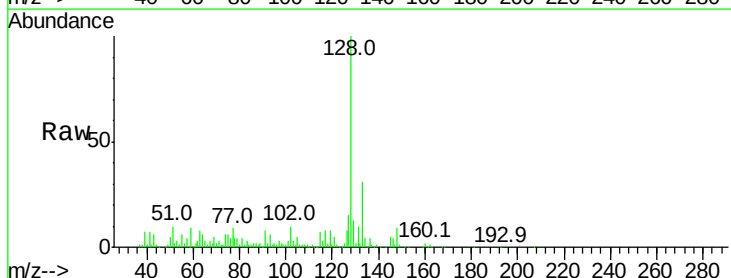
Tgt Ion:128 Resp: 348202

Ion Ratio Lower Upper

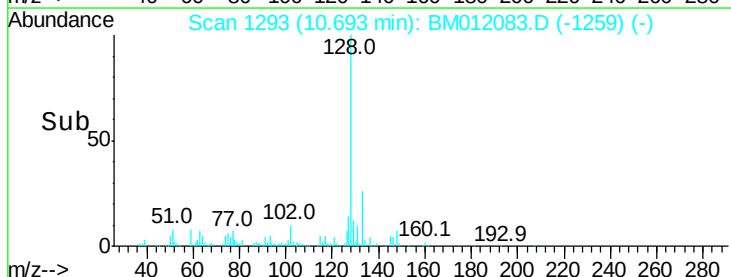
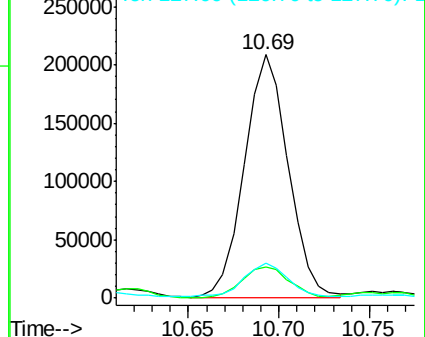
128 100

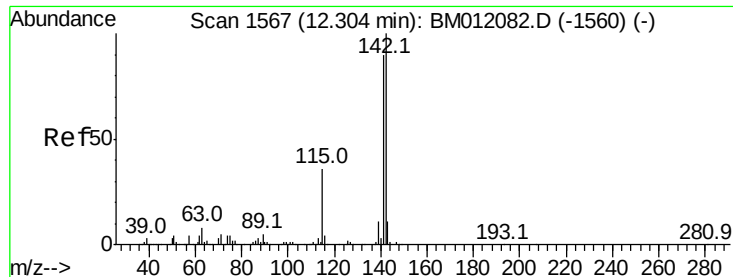
129 12.8 8.8 13.2

127 14.5 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

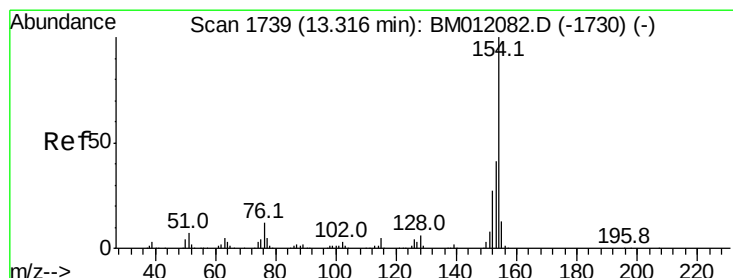
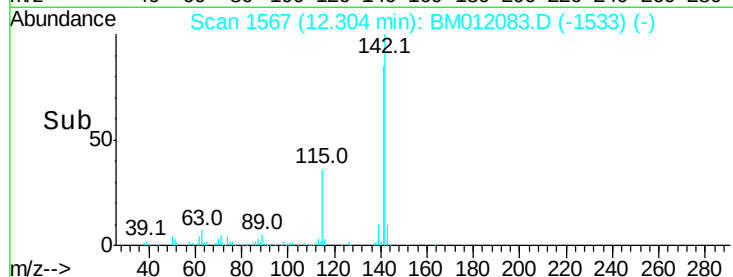
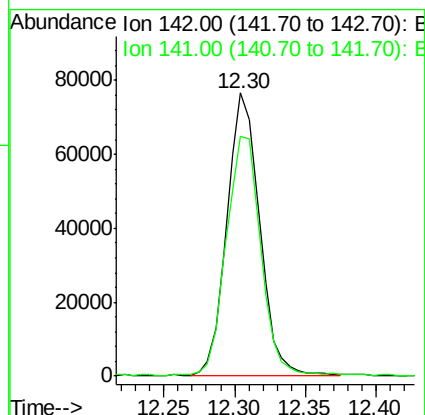
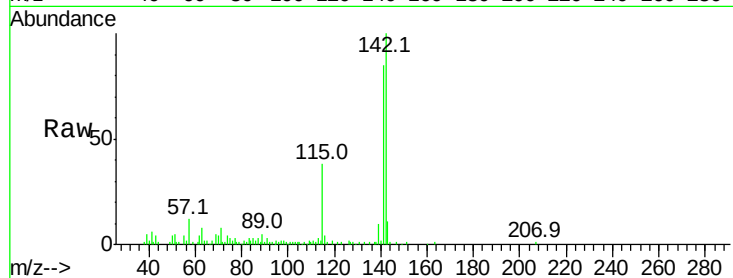




#34  
 2-Methylnaphthalene  
 Concen: 2.535 ng/ul  
 RT: 12.30 min Scan# 1567  
 Delta R.T. 0.00 min  
 Lab File: BM012083.D  
 Acq: 11 Oct 2017 23:59

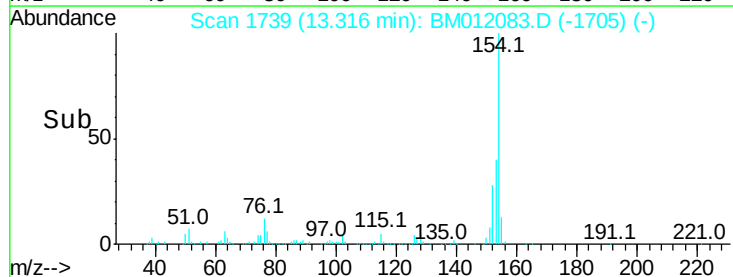
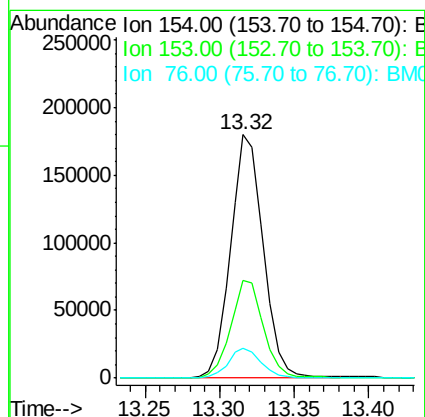
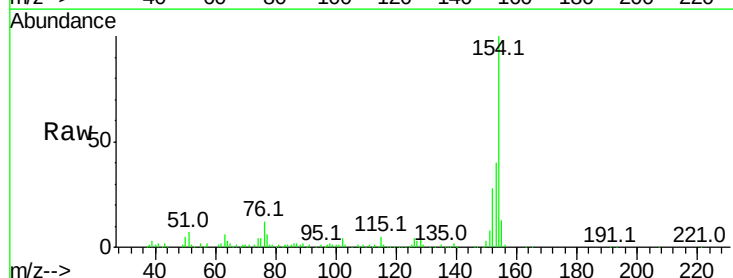
Instrument :  
 BNA\_M  
 ClientSampleId :

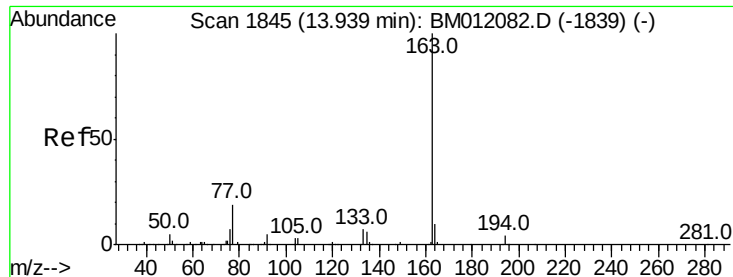
Tot Ion:142 Resp: 124554  
 Ion Ratio Lower Upper  
 142 100  
 141 84.9 74.1 111.1



#40  
 1,1'-Biphenyl  
 Concen: 4.218 ng/ul  
 RT: 13.32 min Scan# 1739  
 Delta R.T. 0.00 min  
 Lab File: BM012083.D  
 Acq: 11 Oct 2017 23:59

Tgt Ion:154 Resp: 275162  
 Ion Ratio Lower Upper  
 154 100  
 153 40.4 32.6 48.8  
 76 12.0 8.5 12.7

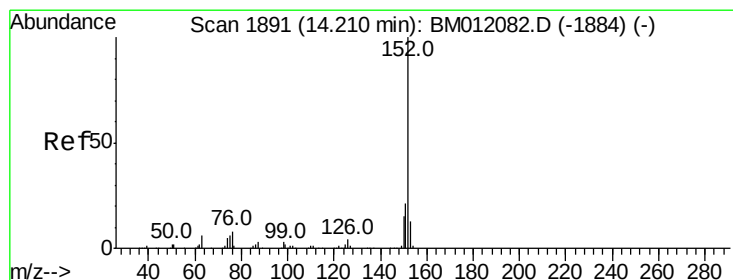
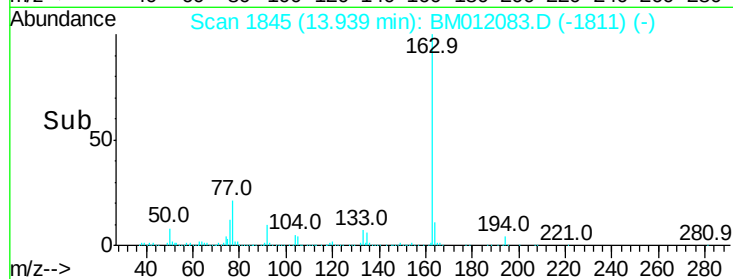
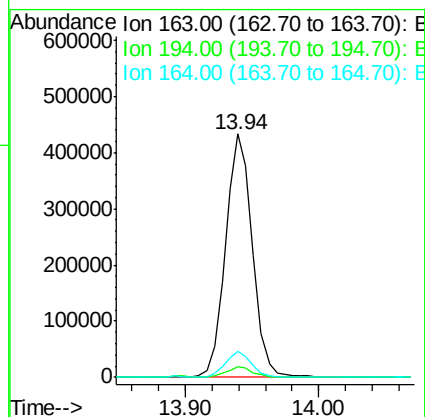
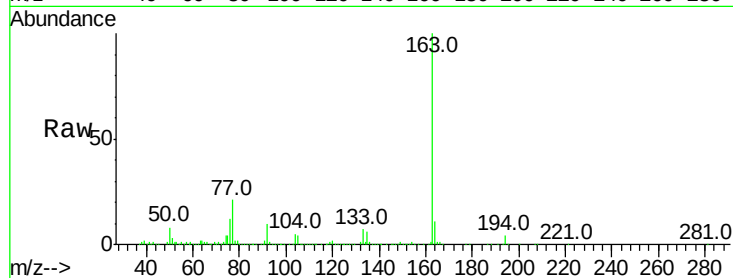




#44  
Dimethylphthalate  
Concen: 8.863 ng/ul  
RT: 13.94 min Scan# 1845  
Delta R.T. 0.00 min  
Lab File: BM012083.D  
Acq: 11 Oct 2017 23:59

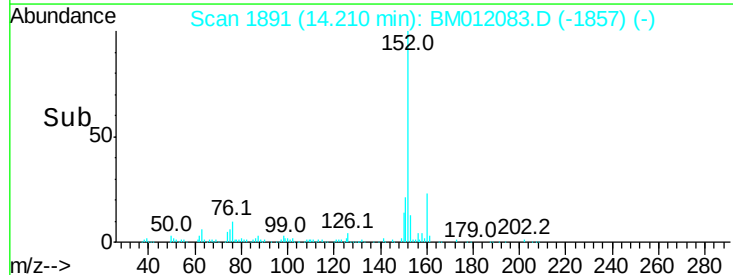
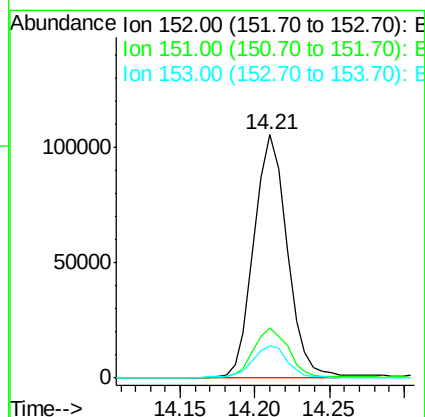
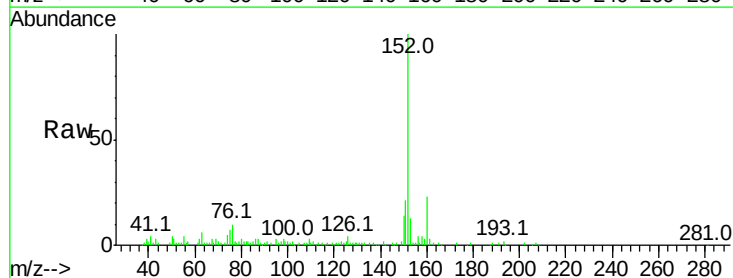
Instrument :  
BNA\_M  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.5   | 5.3   |
| 164     | 10.6  | 8.2   | 12.4  |

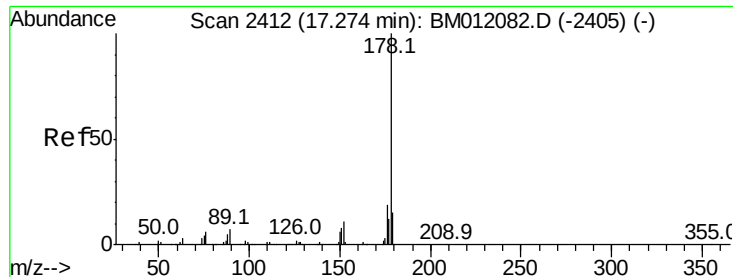


#47  
Acenaphthylene  
Concen: 2.042 ng/ul  
RT: 14.21 min Scan# 1891  
Delta R.T. 0.00 min  
Lab File: BM012083.D  
Acq: 11 Oct 2017 23:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.9  | 16.3  | 24.5  |
| 153     | 13.2  | 10.2  | 15.4  |







#69

Phenanthrene

Concen: 7.010 ng/ul

RT: 17.27 min Scan# 2412

Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

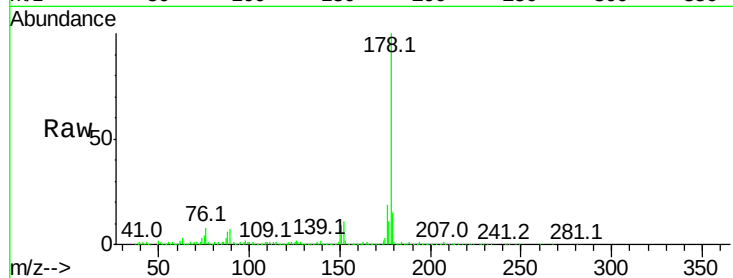
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:178 Resp: 778785

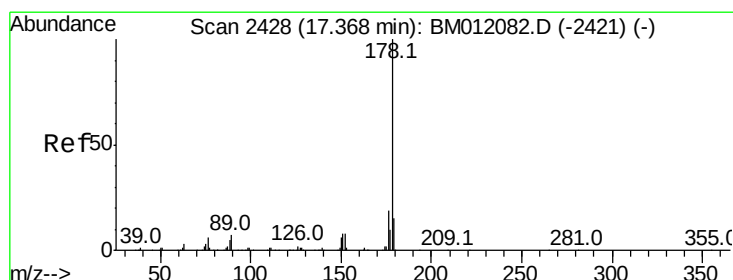
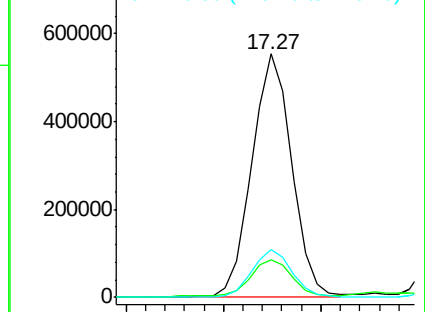
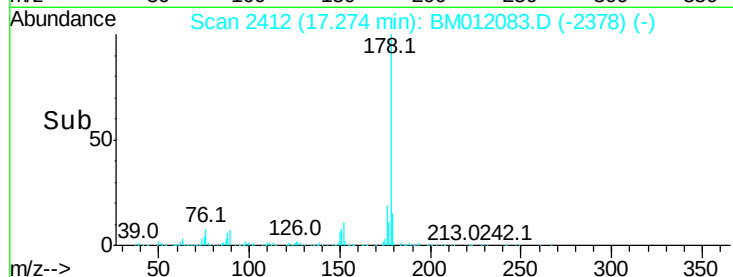
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.3  | 12.6  | 19.0  |
| 176 | 19.4  | 14.9  | 22.3  |



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: 2.374 ng/ul

RT: 17.37 min Scan# 2428

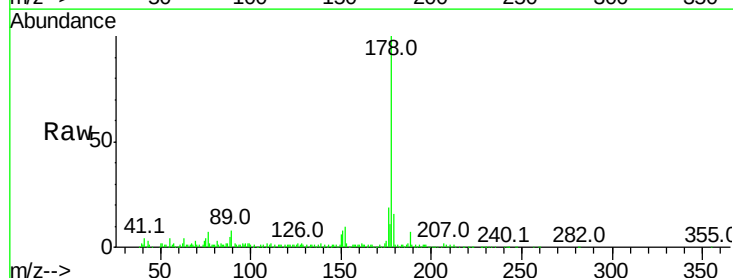
Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

Tgt Ion:178 Resp: 268311

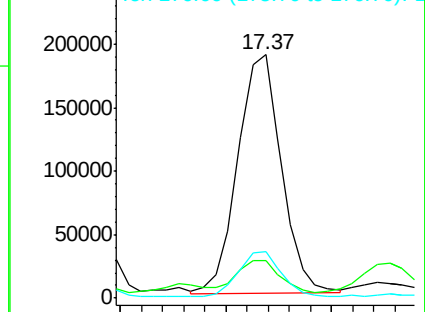
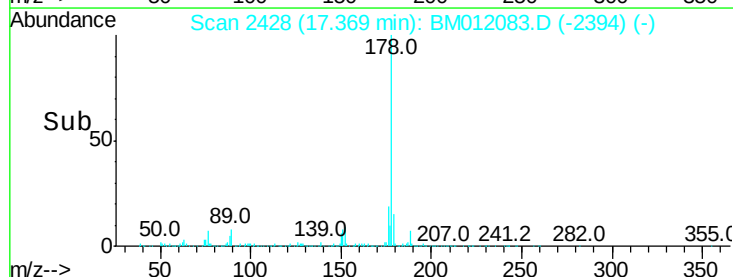
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.6  | 11.7  | 17.5  |
| 176 | 18.9  | 14.6  | 21.8  |

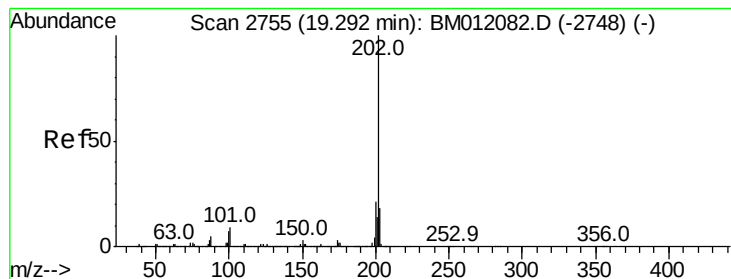


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Fluoranthene

Concen: 17.365 ng/ul

RT: 19.29 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

Instrument :

BNA\_M

ClientSampleId :

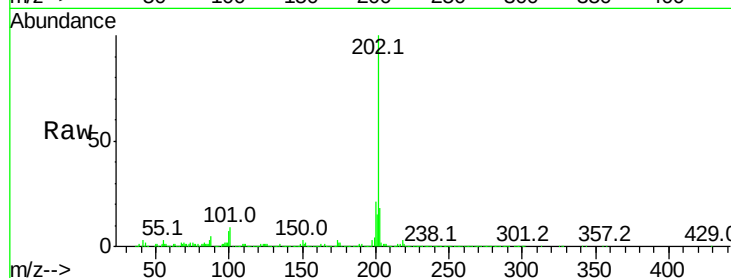
Tot Ion:202 Resp: 2353684

Ion Ratio Lower Upper

202 100

101 8.9 4.6 7.0#

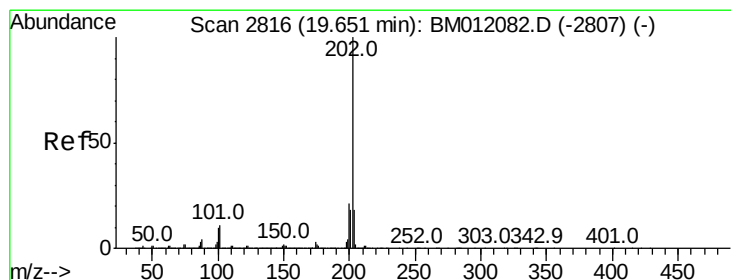
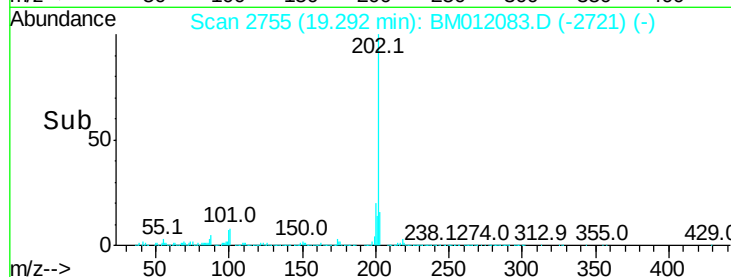
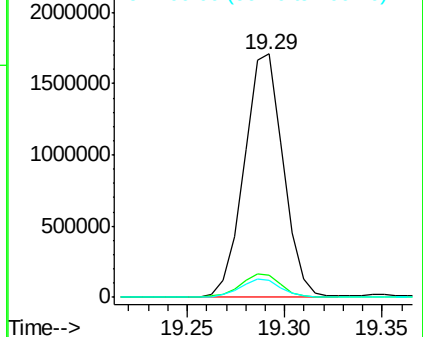
100 7.3 3.4 5.2#



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: 26.867 ng/ul

RT: 19.66 min Scan# 2817

Delta R.T. 0.01 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

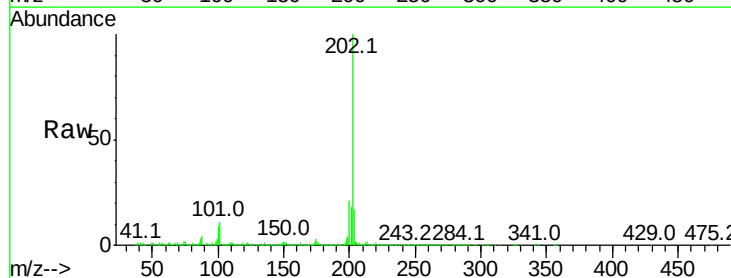
Tgt Ion:202 Resp: 2975856

Ion Ratio Lower Upper

202 100

101 10.6 5.1 7.7#

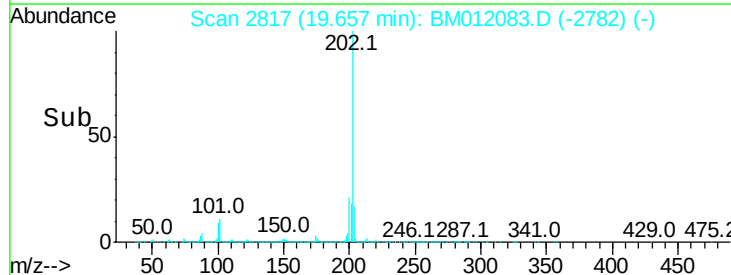
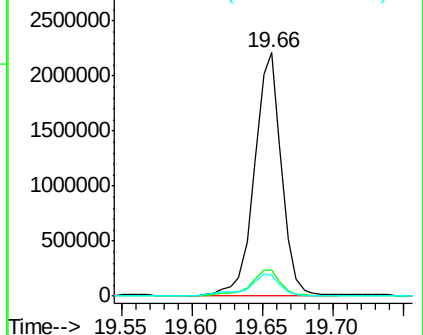
100 8.8 4.9 7.3#

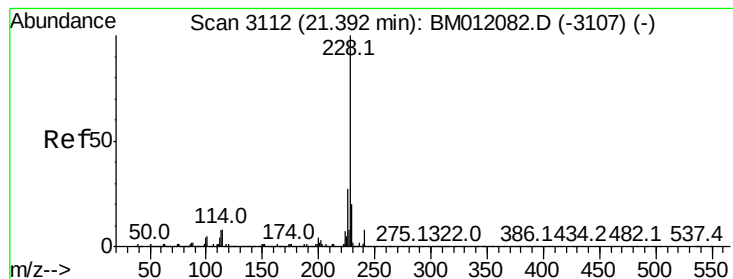


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 10.828 ng/ul

RT: 21.40 min Scan# 3113

Delta R.T. 0.01 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

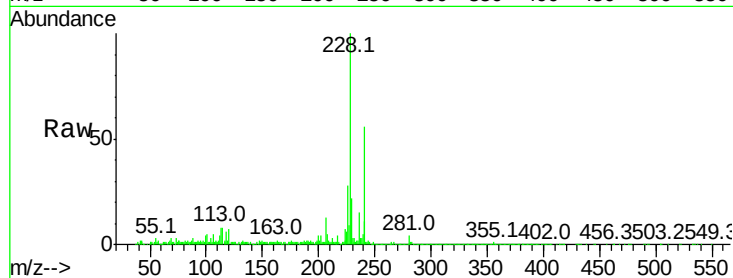
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:228 Resp: 1239169

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 21.6  | 15.4  | 23.0  |
| 226 | 28.0  | 21.4  | 32.0  |

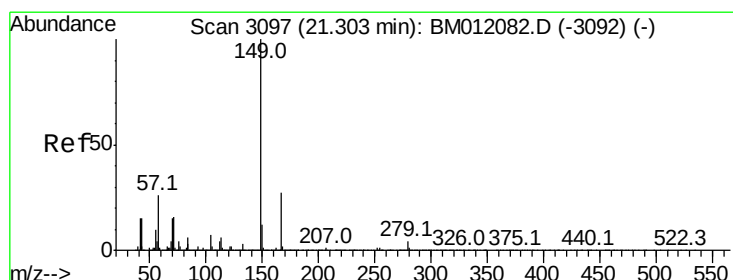
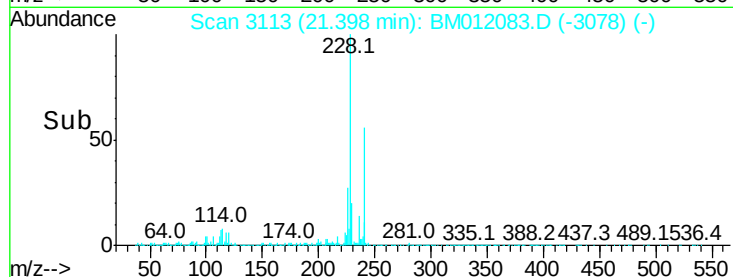
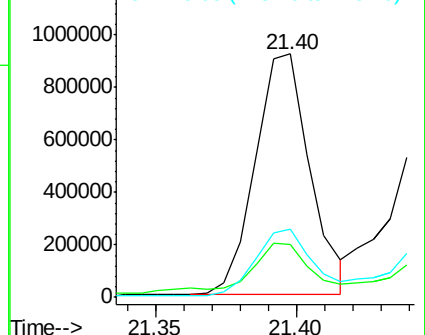


Abundance

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



#81

Bis(2-ethylhexyl)phthalate

Concen: 1.783 ng/ul

RT: 21.30 min Scan# 3097

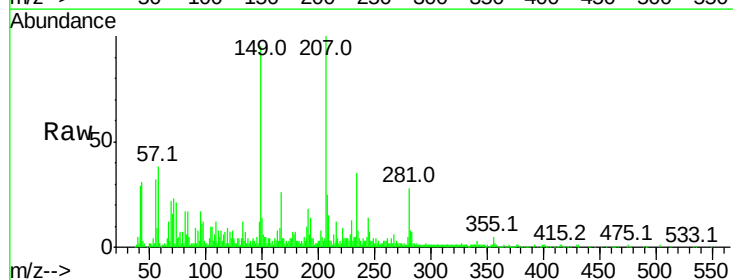
Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

Tgt Ion:149 Resp: 115087

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 27.8  | 22.8  | 34.2  |
| 279 | 5.3   | 4.9   | 7.3   |

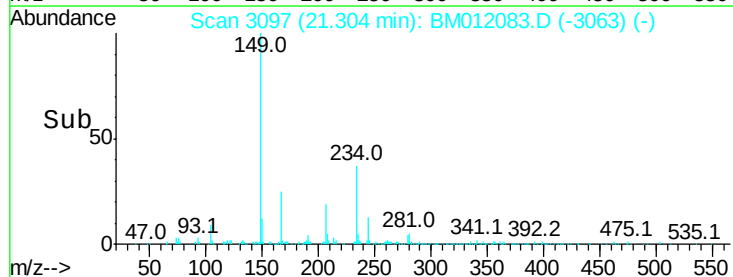
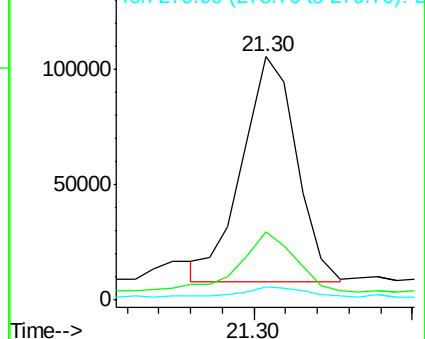


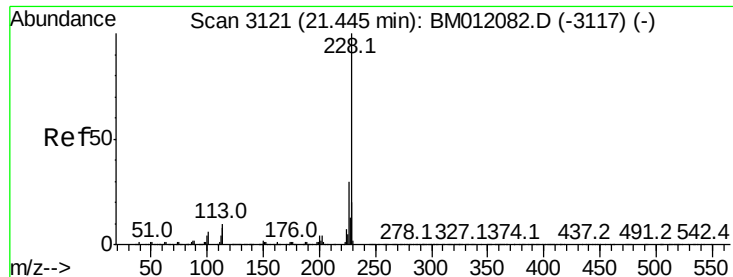
Abundance

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: 10.600 ng/ul

RT: 21.44 min Scan# 3121

Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

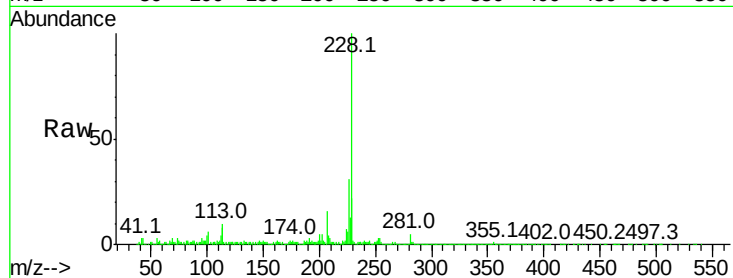
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:228 Resp: 1152579

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.6  | 23.4  | 35.2  |
| 229 | 21.8  | 15.5  | 23.3  |

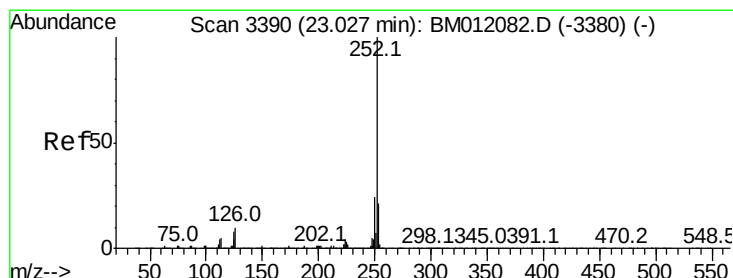
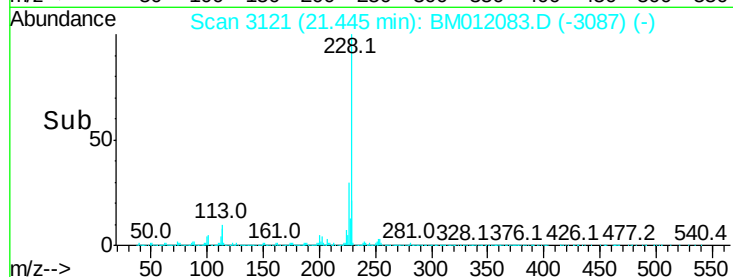
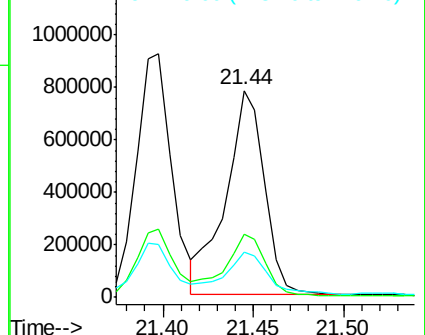


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 10.363 ng/ul

RT: 23.03 min Scan# 3390

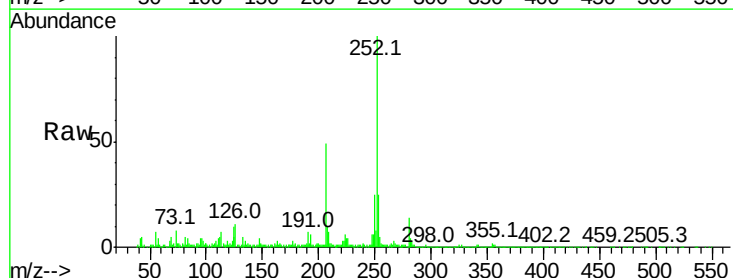
Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

Tgt Ion:252 Resp: 1042577

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.5  | 17.9  | 26.9  |
| 125 | 9.7   | 3.6   | 5.4   |

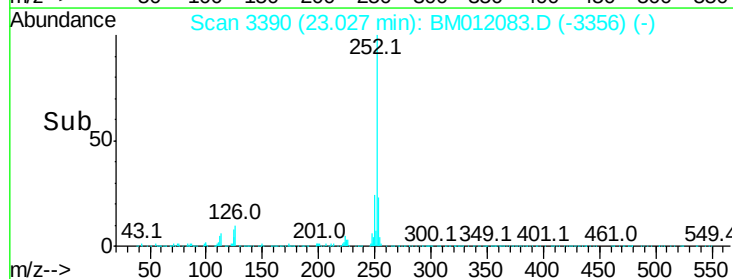
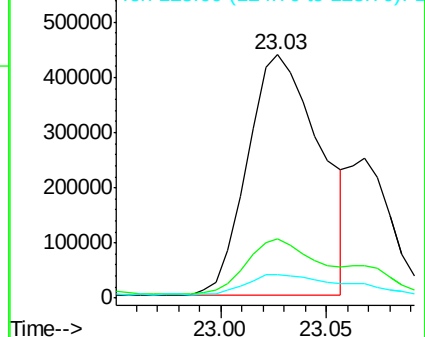


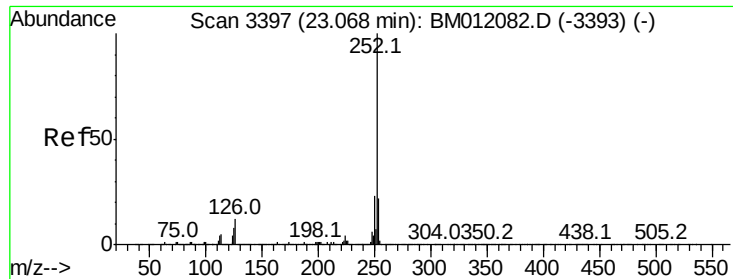
Abundance

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

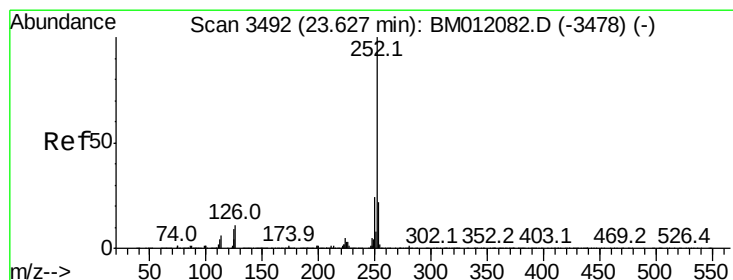
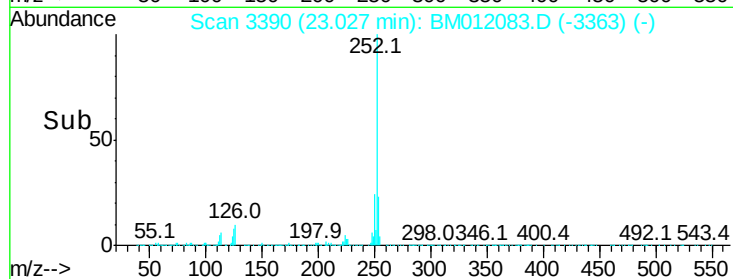
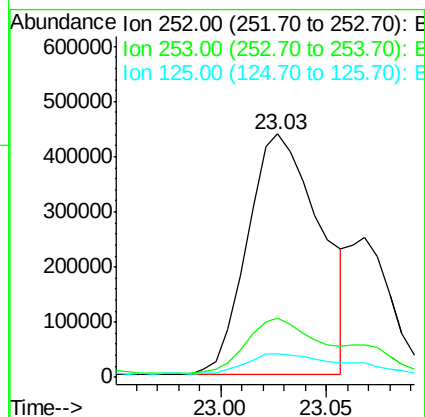
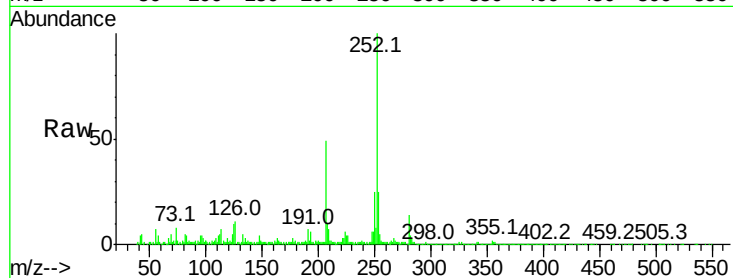




#86  
Benzo(k)fluoranthene  
Concen: 10.381 ng/ul  
RT: 23.03 min Scan# 3390  
Delta R.T. -0.04 min  
Lab File: BM012083.D  
Acq: 11 Oct 2017 23:59

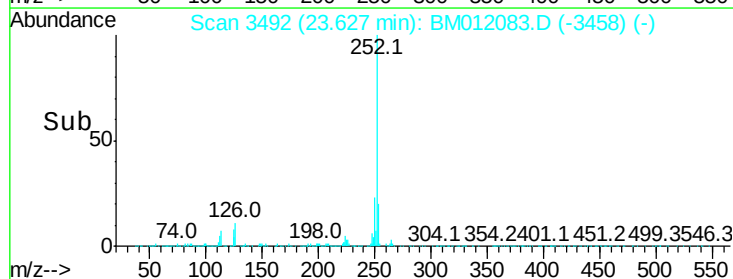
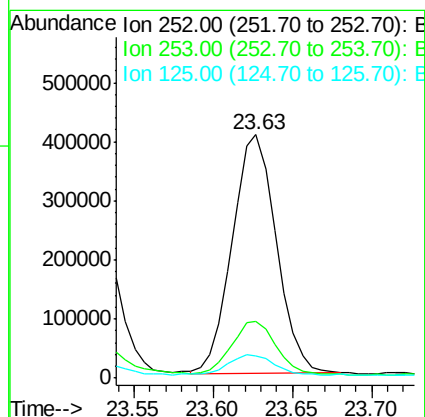
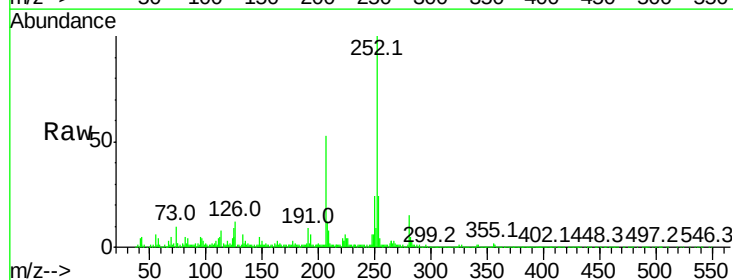
Instrument :  
BNA\_M  
ClientSampled :

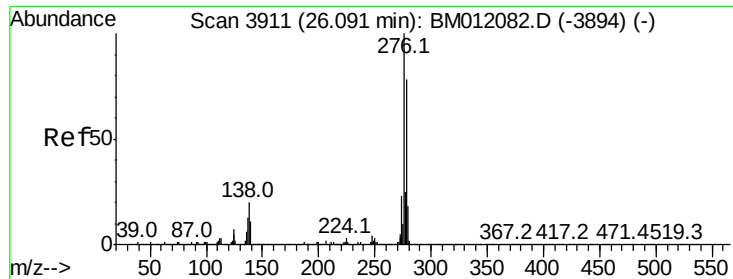
Tot Ion:252 Resp: 1042577  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.1 25.7  
125 9.7 3.4 5.2#



#88  
Benzo(a)pyrene  
Concen: 8.115 ng/ul  
RT: 23.63 min Scan# 3492  
Delta R.T. 0.00 min  
Lab File: BM012083.D  
Acq: 11 Oct 2017 23:59

Tgt Ion:252 Resp: 784466  
Ion Ratio Lower Upper  
252 100  
253 23.6 18.2 27.2  
125 9.3 4.0 6.0#

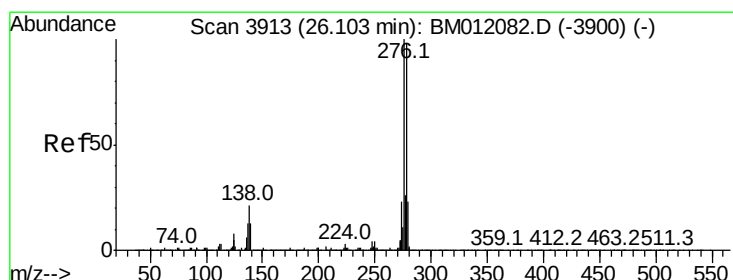
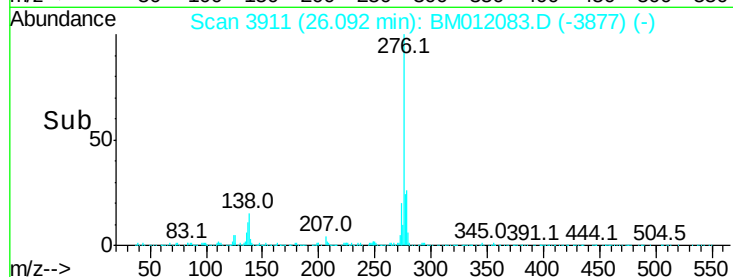
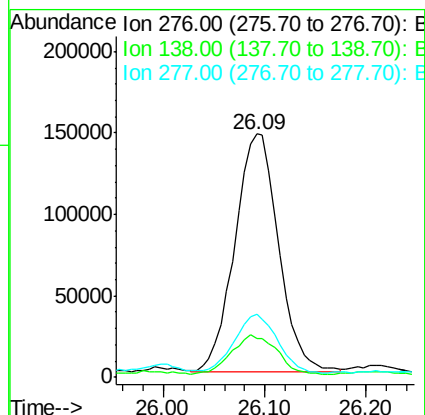
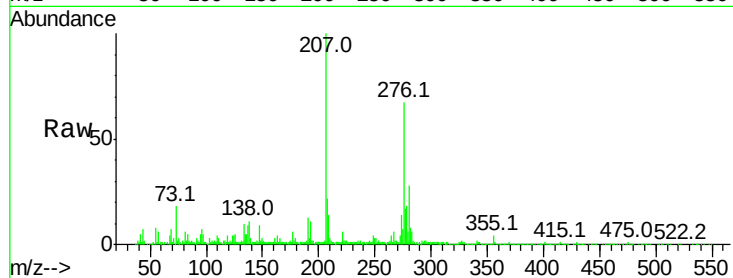




#89  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.242 ng/ul  
 RT: 26.09 min Scan# 3911  
 Delta R.T. 0.00 min  
 Lab File: BM012083.D  
 Acq: 11 Oct 2017 23:59

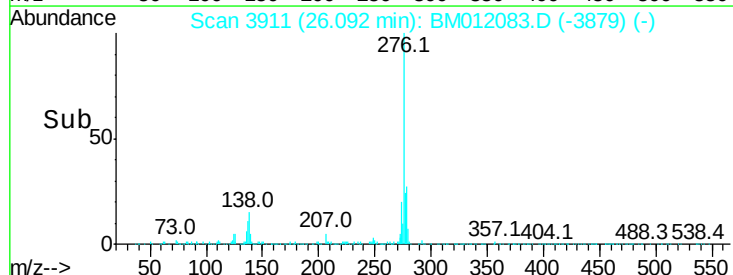
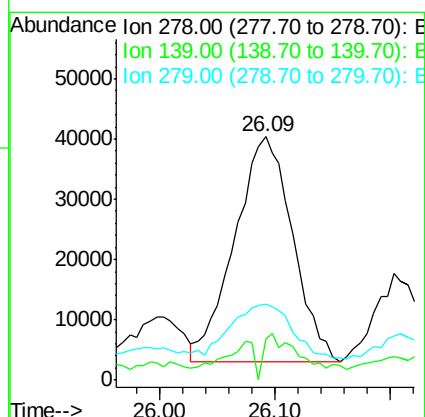
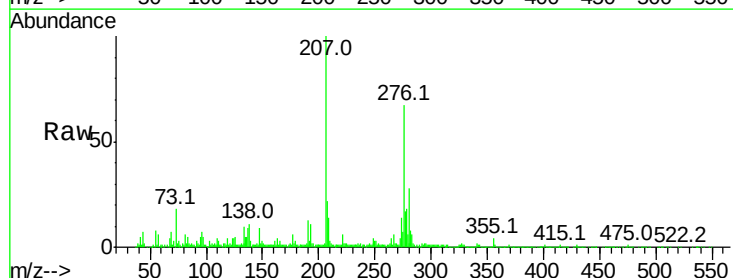
Instrument :  
 BNA\_M  
 ClientSampleId :

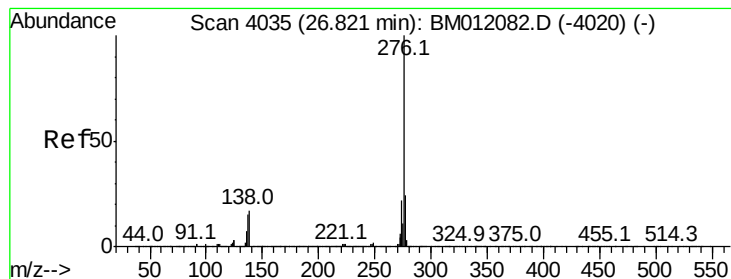
Tot Ion:276 Resp: 438796  
 Ion Ratio Lower Upper  
 276 100  
 138 16.1 9.3 13.9#  
 277 25.9 19.9 29.9



#90  
 Dibenzo(a,h)anthracene  
 Concen: 1.524 ng/ul  
 RT: 26.09 min Scan# 3911  
 Delta R.T. -0.01 min  
 Lab File: BM012083.D  
 Acq: 11 Oct 2017 23:59

Tgt Ion:278 Resp: 129520  
 Ion Ratio Lower Upper  
 278 100  
 139 17.1 5.8 8.8#  
 279 31.2 18.6 27.8#





#91

Benzo(a,h,i)perylene

Concen: 4.463 ng/ul

RT: 26.82 min Scan# 4035

Delta R.T. 0.00 min

Lab File: BM012083.D

Acq: 11 Oct 2017 23:59

Instrument :

BNA\_M

ClientSampleId :

Tot Ion:276 Resp: 381883

Ion Ratio Lower Upper

276 100

138 18.5 8.5 12.7#

277 24.8 18.6 28.0

