

Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
 Data File : BM002113.D  
 Acq On : 29 Jul 2015 03:28  
 Operator : TP/UM  
 Sample : G3048-13  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01Y6

Manual Integrations  
 APPROVED

apatel  
 7/30/2015 7:48:07 AM

Quant Time: Jul 29 07:04:53 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 29 01:50:38 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 63481    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.39 | 136  | 250957   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.26 | 164  | 150551   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.01 | 188  | 337483   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.21 | 240  | 399280   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.42 | 264  | 410048   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.06  | 96  | 2272   | 1.85  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.78  | 99  | 47550  | 10.48 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 28615  | 11.40 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 43261  | 11.25 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.32  | 113 | 23715  | 6.57  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.76  | 128 | 19979  | 11.20 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.48  | 143 | 15998  | 8.07  | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 40946  | 10.73 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.53 | 131 | 25206  | 6.01  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.67 | 166 | 131316 | 11.91 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.95 | 160 | 134158 | 9.73  | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.49 | 143 | 9481   | 5.15  | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.26 | 176 | 96712  | 9.97  | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.39 | 200 | 1264   | 0.61  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.11 | 188 | 142957 | 9.49  | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.42 | 212 | 157177 | 9.35  | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.28 | 264 | 172953 | 8.70  | ng/ul | 0.02 |

## Target Compounds

|                                |       |     |        |      |        | Ovalue |
|--------------------------------|-------|-----|--------|------|--------|--------|
| 14) Acetophenone               | 8.43  | 105 | 6529   | 1.14 | ng/ul  | 95     |
| 28) Naphthalene                | 10.43 | 128 | 12401  | 1.04 | ng/ul  | 98     |
| 34) 2-Methylnaphthalene        | 12.06 | 142 | 11672  | 1.35 | ng/ul  | 92     |
| 45) Dimethylphthalate          | 13.72 | 163 | 62961  | 5.72 | ng/ul  | 99     |
| 70) Phenanthrene               | 17.05 | 178 | 71756  | 4.10 | ng/ul  | 97     |
| 72) Anthracene                 | 17.14 | 178 | 24887m | 1.39 | ng/ul  |        |
| 77) Fluoranthene               | 19.08 | 202 | 142225 | 7.05 | ng/ul  | 98     |
| 80) Pyrene                     | 19.44 | 202 | 155484 | 7.16 | ng/ul  | 99     |
| 83) Benzo(a)anthracene         | 21.20 | 228 | 76005  | 3.43 | ng/ul# | 92     |
| 84) Bis(2-ethylhexyl)phthalate | 21.13 | 149 | 89438  | 7.04 | ng/ul  | 99     |
| 85) Chrysene                   | 21.24 | 228 | 83571  | 4.04 | ng/ul# | 91     |
| 88) Benzo(b)fluoranthene       | 22.76 | 252 | 137653 | 5.97 | ng/ul# | 81     |
| 89) Benzo(k)fluoranthene       | 22.80 | 252 | 42154m | 1.90 | ng/ul  |        |
| 91) Benzo(a)pyrene             | 23.32 | 252 | 87710  | 3.94 | ng/ul# | 80     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.64 | 276 | 73498  | 2.87 | ng/ul  | 96     |
| 94) Benzo(g,h,i)perylene       | 26.31 | 276 | 74471  | 3.47 | ng/ul# | 93     |

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

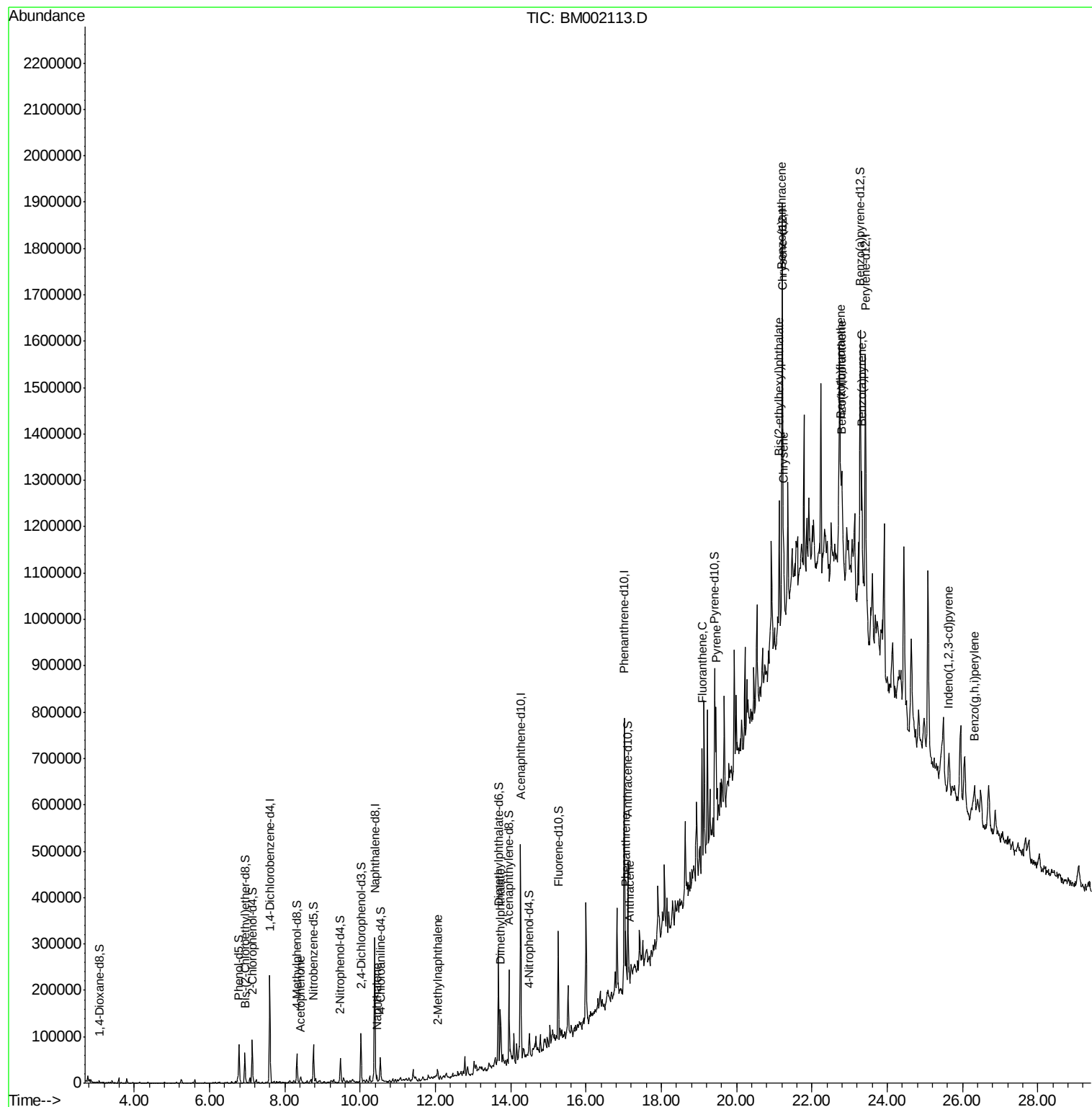
Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002113.D  
Acq On : 29 Jul 2015 03:28  
Operator : TP/UM  
Sample : G3048-13  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

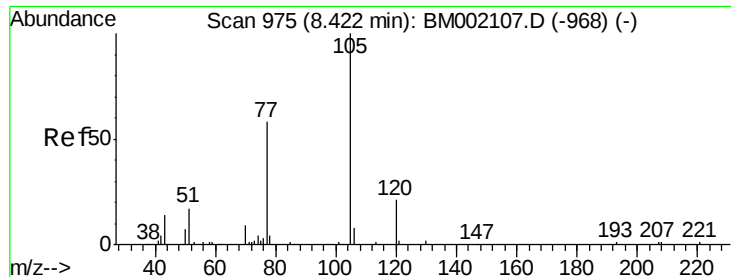
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Jul 29 07:04:53 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 29 01:50:38 2015  
Response via : Initial Calibration





#14

Acetophenone

Concen: 1.14 ng/ul

RT: 8.43 min Scan# 976

Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

Instrument :

BNA\_M

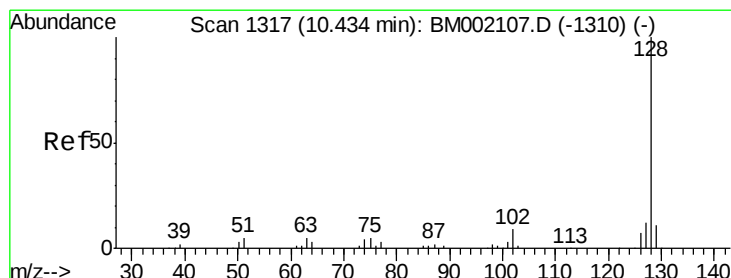
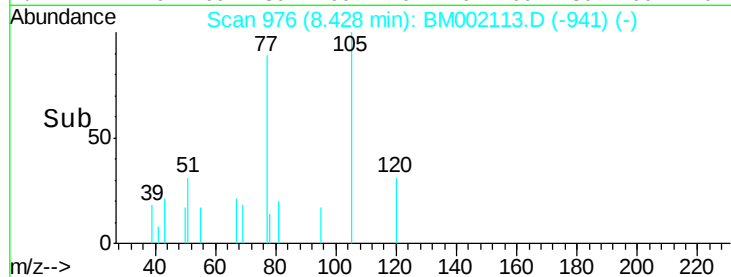
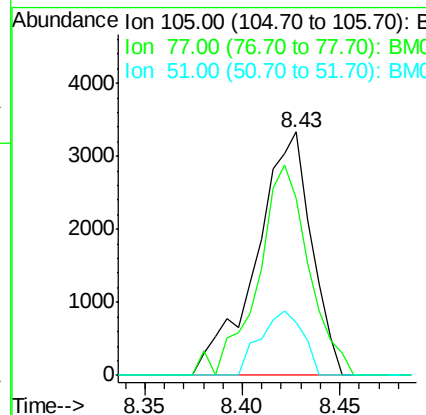
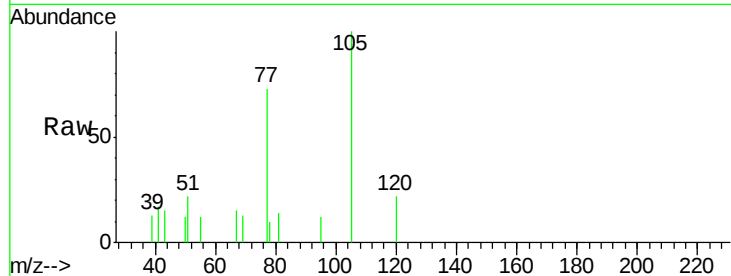
ClientSampleId :

C01Y6

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 105   | Resp: | 6529 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 77        | 72.7  | 61.8  | 92.8 |
| 51        | 21.8  | 18.5  | 27.7 |

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#28

Naphthalene

Concen: 1.04 ng/ul

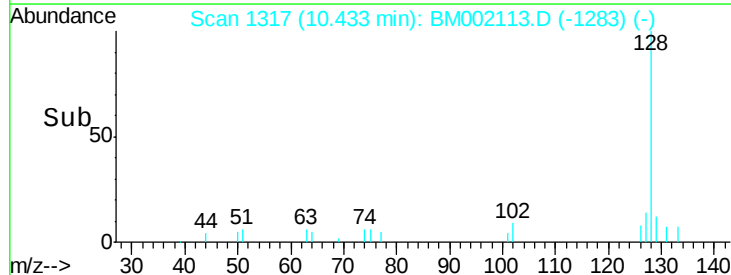
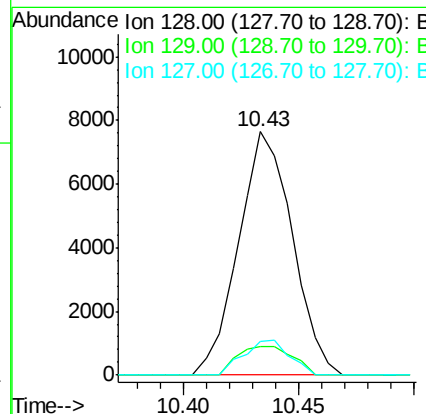
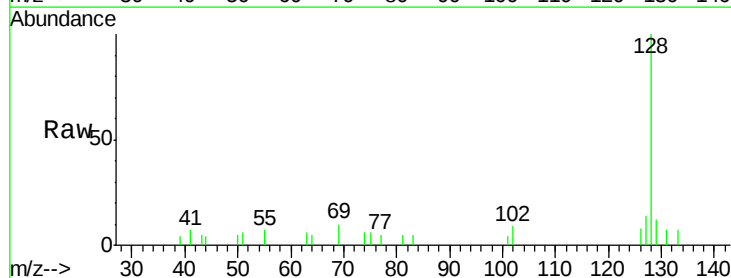
RT: 10.43 min Scan# 1317

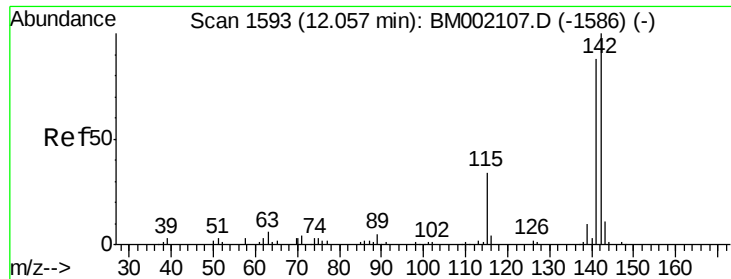
Delta R.T. -0.00 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 12401 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.9  | 9.0   | 13.4  |
| 127       | 13.6  | 10.2  | 15.4  |





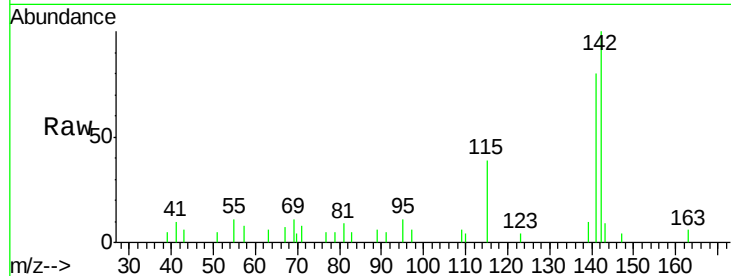
#34  
2-Methylnaphthalene  
Concen: 1.35 ng/ul  
RT: 12.06 min Scan# 1594  
Delta R.T. 0.01 min  
Lab File: BM002113.D  
Acq: 29 Jul 2015 03:28

Instrument :  
BNA\_M  
ClientSampleId :  
C01Y6

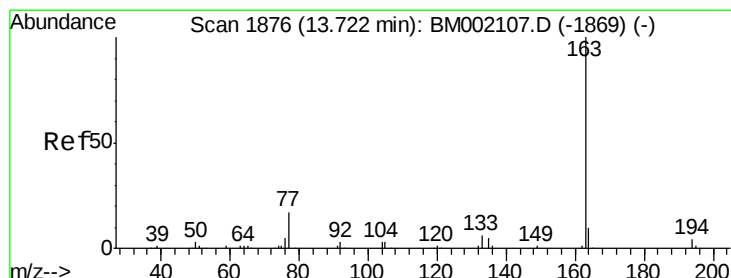
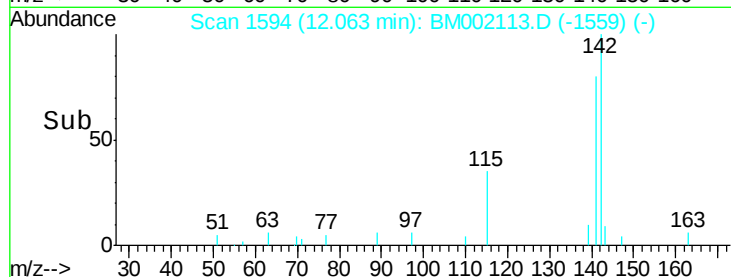
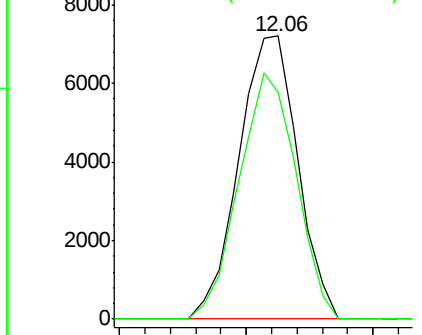
Tot Ion:142 Resp: 11672  
Ion Ratio Lower Upper  
142 100  
141 80.2 69.8 104.6

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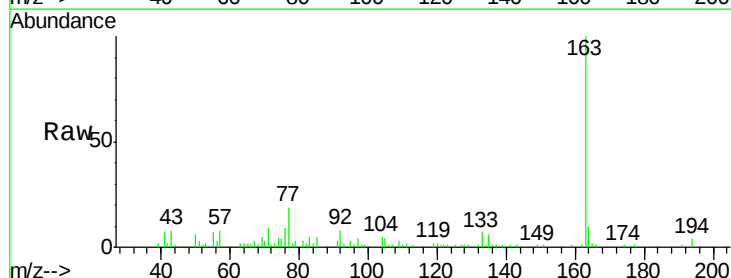


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E

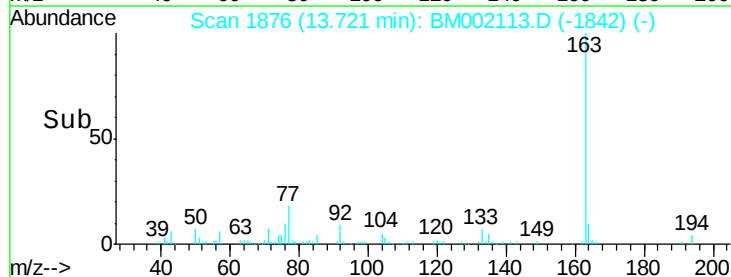
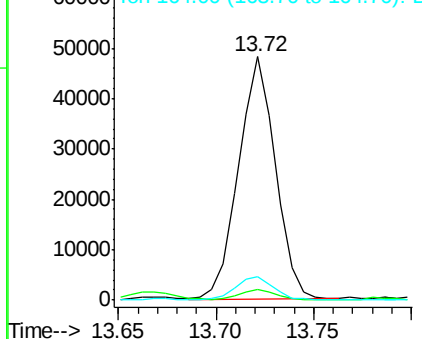


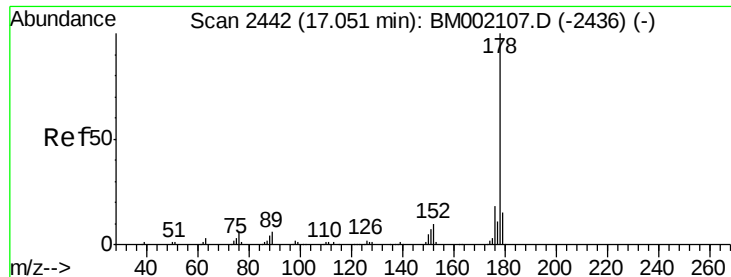
#45  
Dimethylphthalate  
Concen: 5.72 ng/ul  
RT: 13.72 min Scan# 1876  
Delta R.T. -0.00 min  
Lab File: BM002113.D  
Acq: 29 Jul 2015 03:28

Tgt Ion:163 Resp: 62961  
Ion Ratio Lower Upper  
163 100  
194 4.4 3.5 5.3  
164 9.6 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#70

Phenanthrene

Concen: 4.10 ng/ul

RT: 17.05 min Scan# 2442

Delta R.T. -0.00 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

Instrument :

BNA\_M

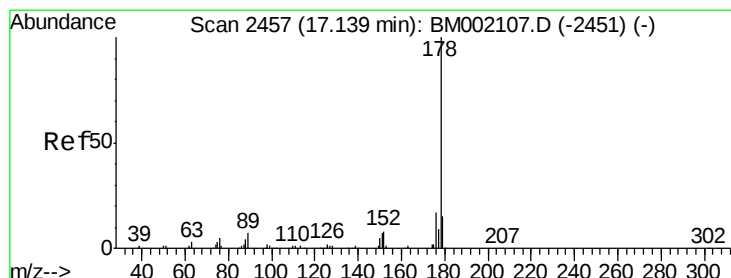
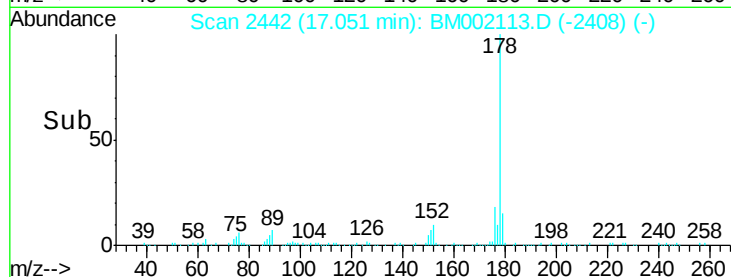
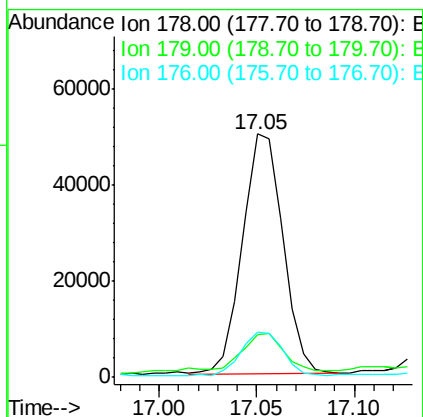
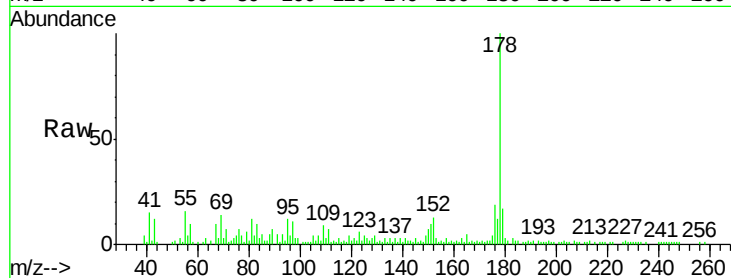
ClientSampleId :

C01Y6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 71756 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 17.5  | 12.5  | 18.7  |
| 176       | 18.6  | 14.2  | 21.4  |

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#72

Anthracene

Concen: 1.39 ng/ul m

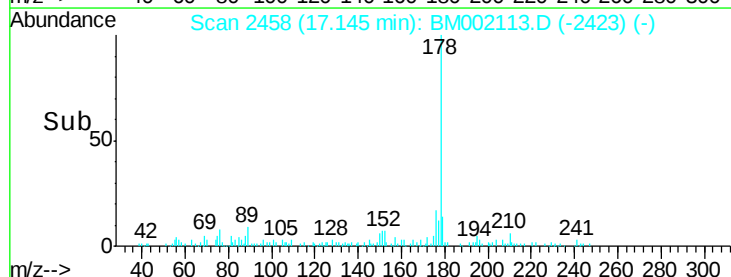
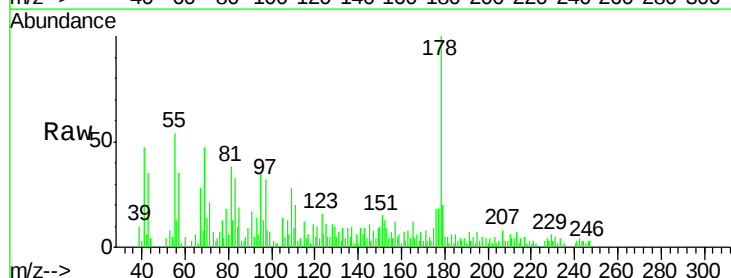
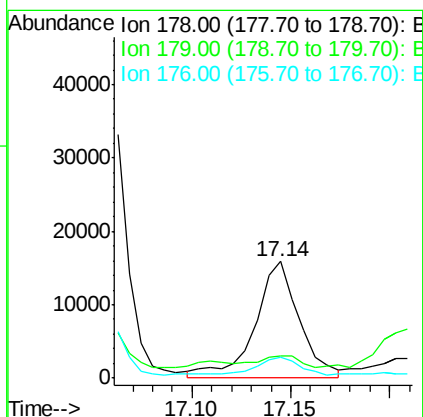
RT: 17.14 min Scan# 2458

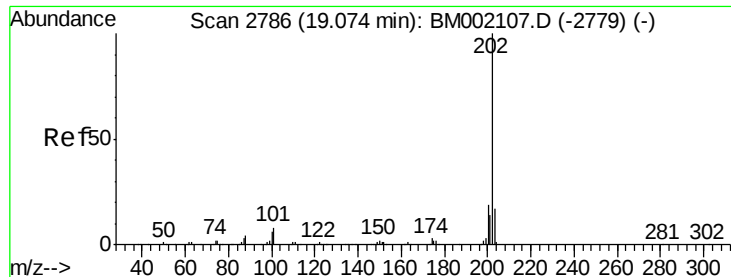
Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 24887 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 19.5  | 12.1  | 18.1# |
| 176       | 18.4  | 14.1  | 21.1  |





#77

Fluoranthene

Concen: 7.05 ng/ul

RT: 19.08 min Scan# 2787

Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

Instrument :

BNA\_M

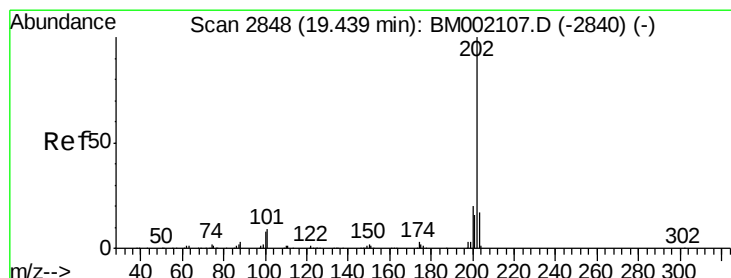
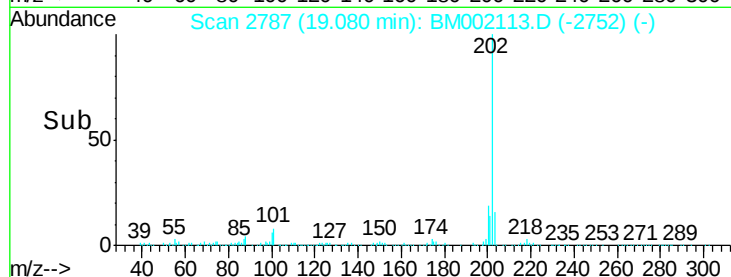
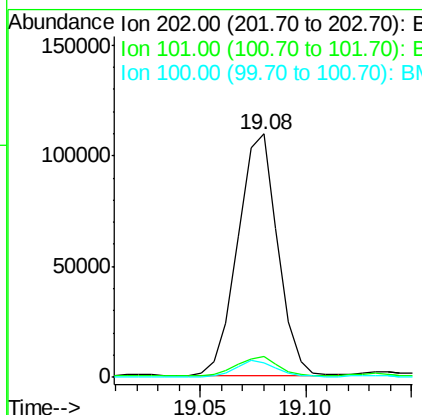
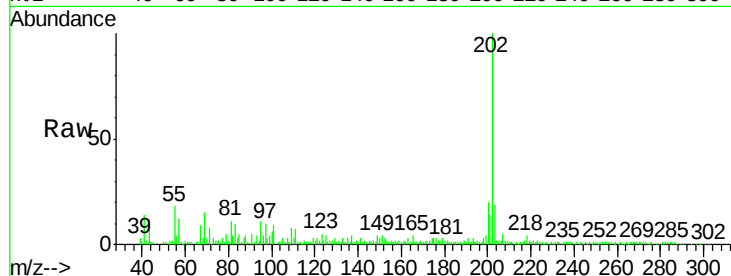
ClientSampleId :

C01Y6

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 142225 |       |       |
| 101     | 8.6 | 6.2   | 9.4    |       |       |
| 100     | 6.0 | 5.2   | 7.8    |       |       |

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#80

Pyrene

Concen: 7.16 ng/ul

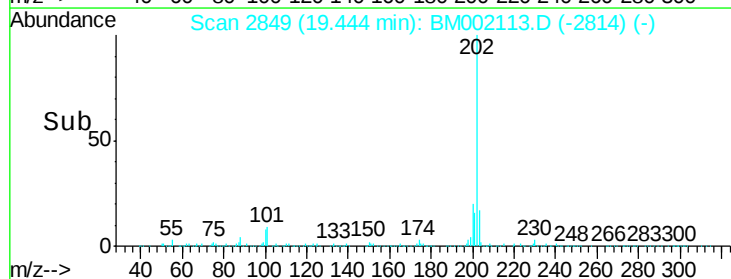
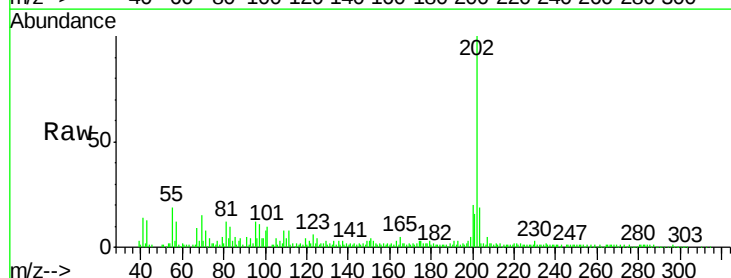
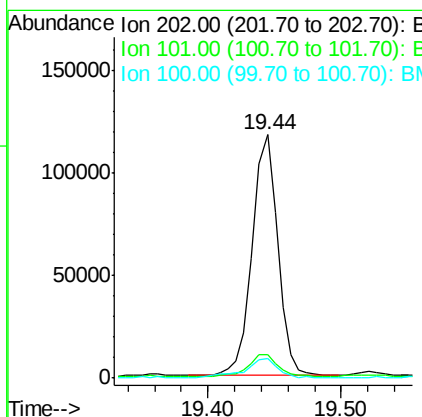
RT: 19.44 min Scan# 2849

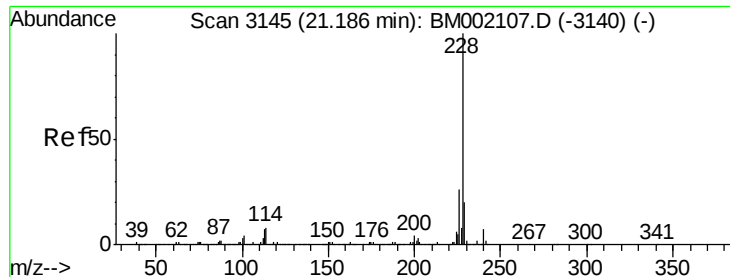
Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 155484 |       |       |
| 101     | 9.9 | 7.4   | 11.2   |       |       |
| 100     | 7.9 | 6.3   | 9.5    |       |       |





#83

Benzo(a)anthracene

Concen: 3.43 ng/ul

RT: 21.20 min Scan# 3147

Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

Instrument :

BNA\_M

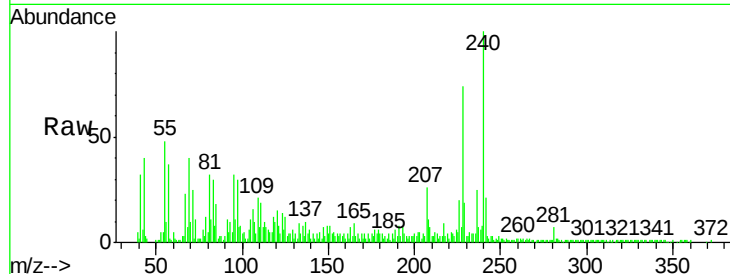
ClientSampleId :

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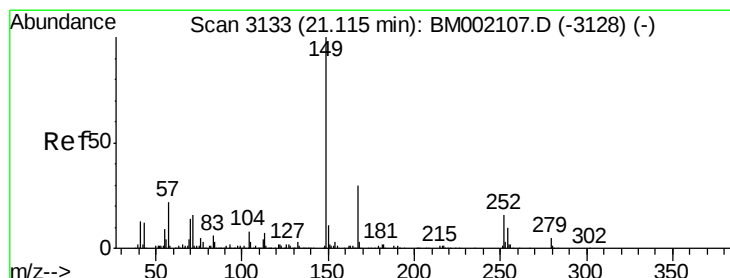
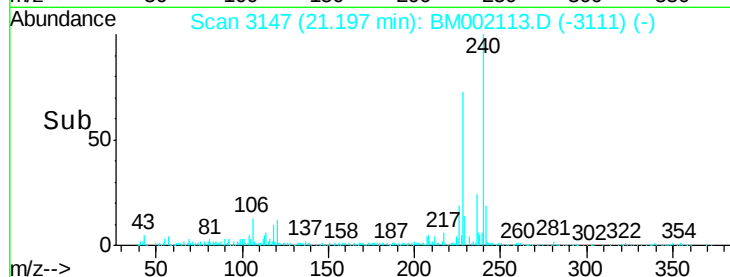
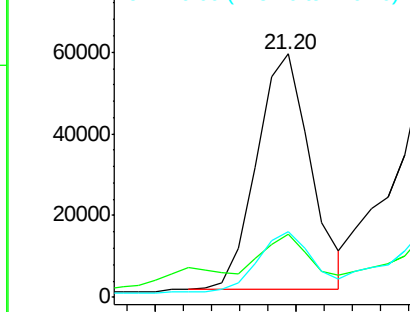
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 76005 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 25.8  | 15.4  | 23.2# |
| 226       | 27.0  | 20.5  | 30.7  |

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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



#84

Bis(2-ethylhexyl)phthalate

Concen: 7.04 ng/ul

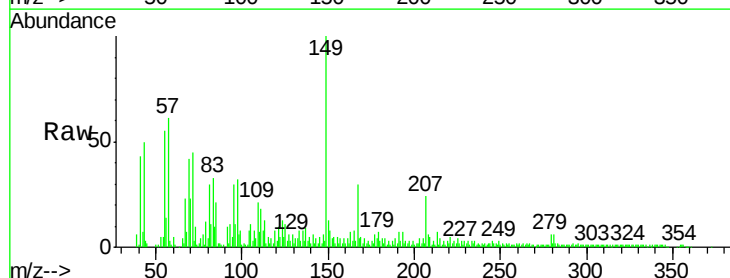
RT: 21.13 min Scan# 3135

Delta R.T. 0.01 min

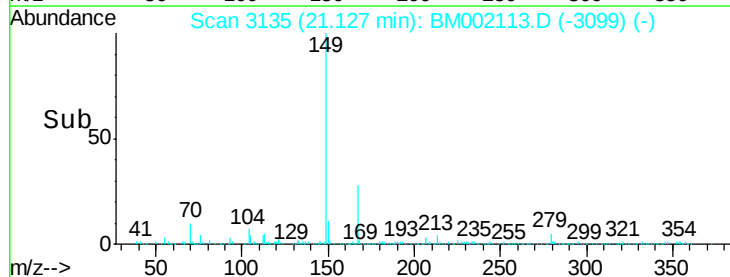
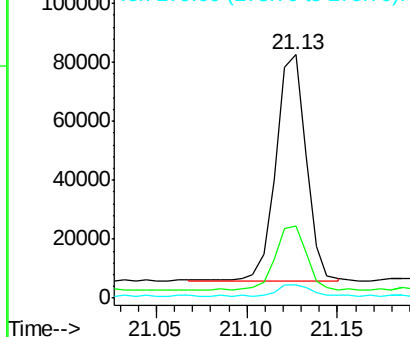
Lab File: BM002113.D

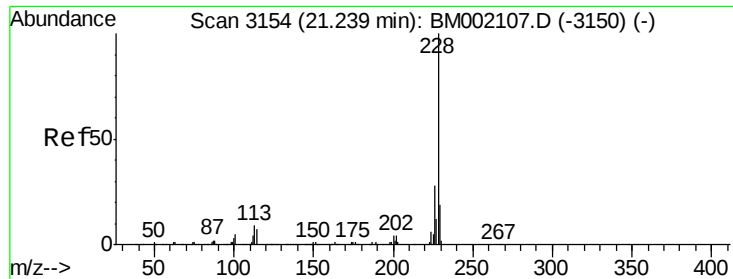
Acq: 29 Jul 2015 03:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 89438 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 29.8  | 23.6  | 35.4  |
| 279       | 5.6   | 4.2   | 6.4   |



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





#85

Chrysene

Concen: 4.04 ng/ul

RT: 21.24 min Scan# 3155

Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

Instrument :

BNA\_M

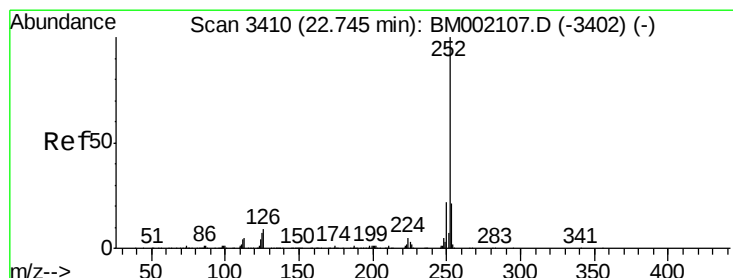
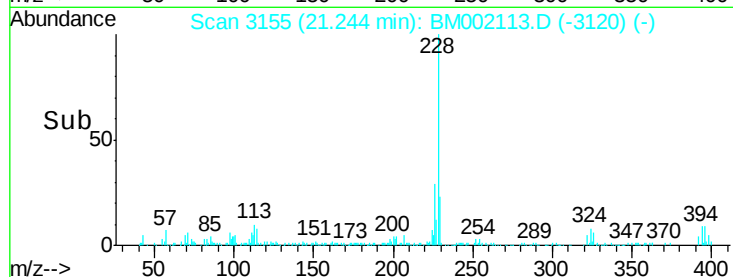
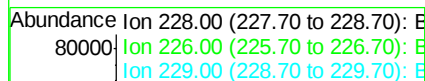
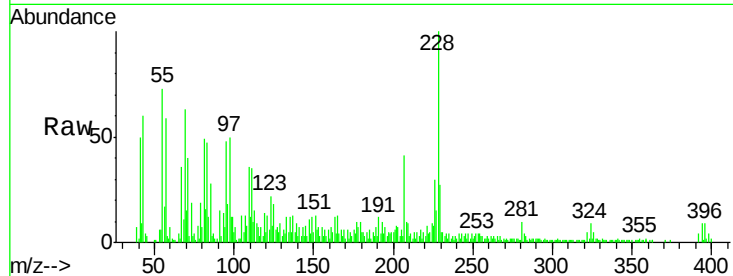
ClientSampleId :

C01Y6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 83571 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.0  | 22.3  | 33.5  |
| 229       | 26.6  | 15.5  | 23.3# |

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#88

Benzo(b)fluoranthene

Concen: 5.97 ng/ul

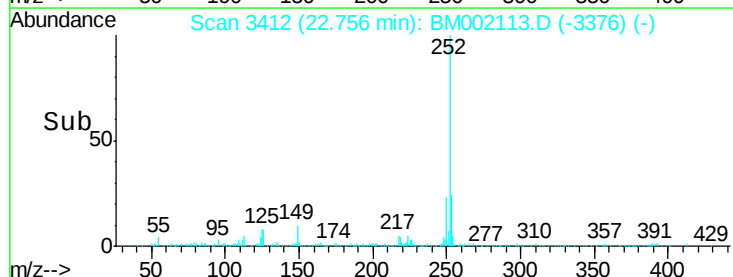
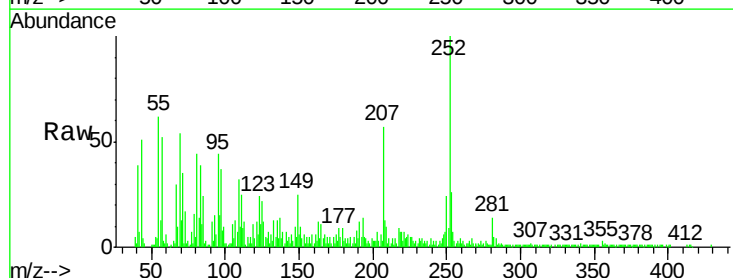
RT: 22.76 min Scan# 3412

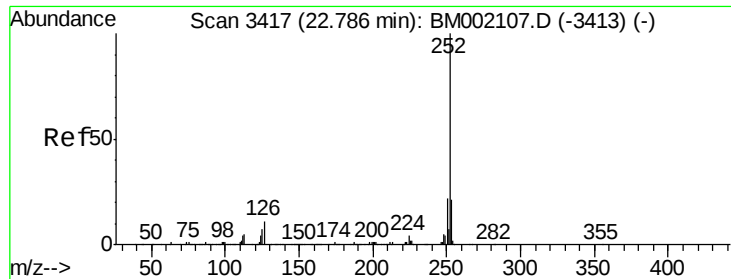
Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 137653 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 26.1  | 16.9  | 25.3#  |
| 125       | 21.9  | 6.2   | 9.2#   |





#89

Benzo(k)fluoranthene

Concen: 1.90 ng/ul m

RT: 22.80 min Scan# 3419

Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

Instrument :

BNA\_M

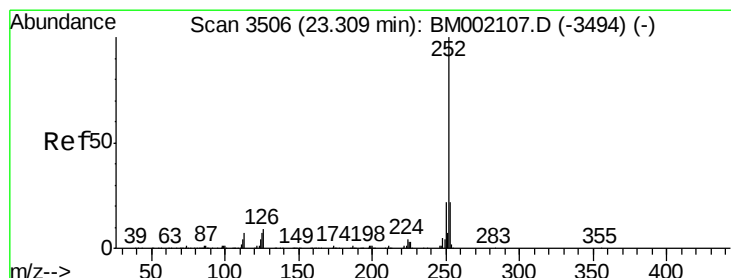
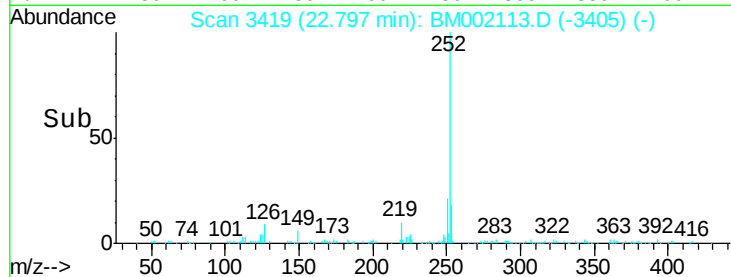
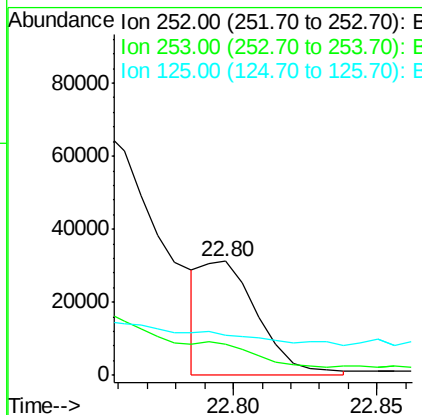
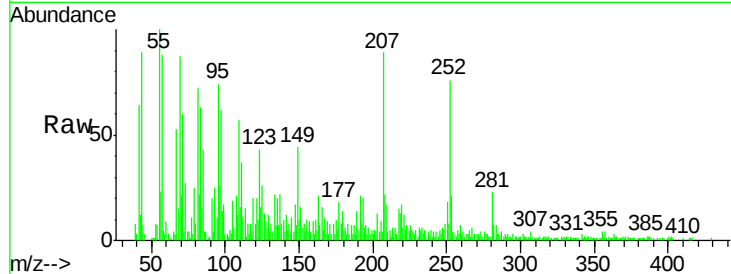
ClientSampleId :

C01Y6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 42154 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.2  | 17.4  | 26.0# |
| 125       | 34.9  | 6.2   | 9.4#  |

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#91

Benzo(a)pyrene

Concen: 3.94 ng/ul

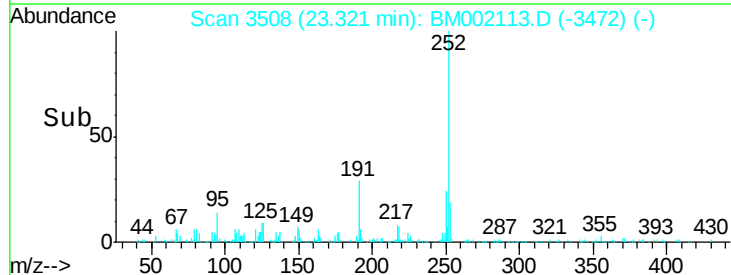
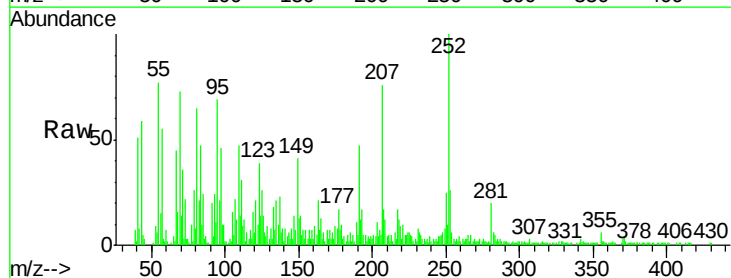
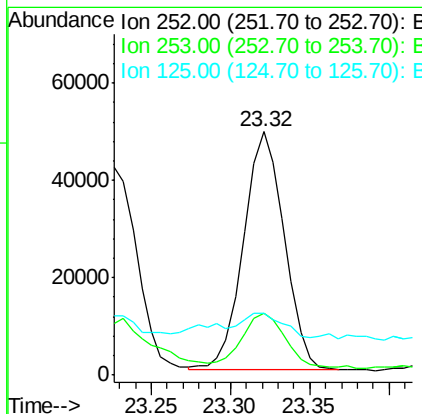
RT: 23.32 min Scan# 3508

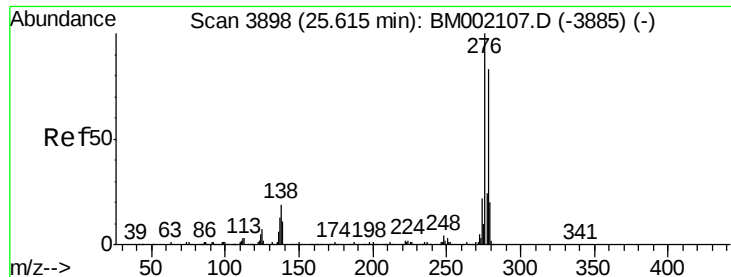
Delta R.T. 0.01 min

Lab File: BM002113.D

Acq: 29 Jul 2015 03:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 87710 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.6  | 17.2  | 25.8  |
| 125       | 25.5  | 6.6   | 10.0# |





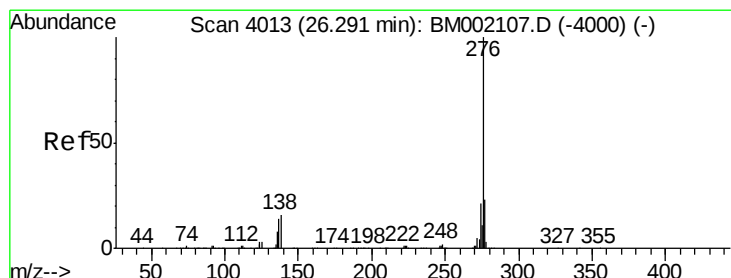
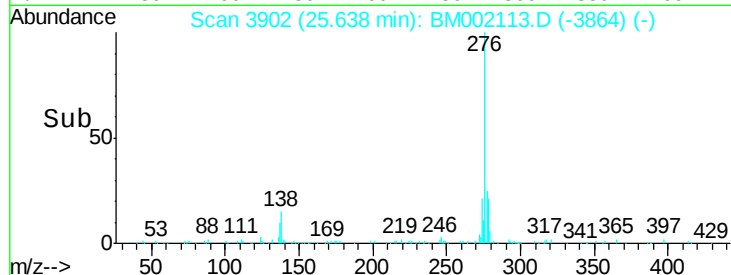
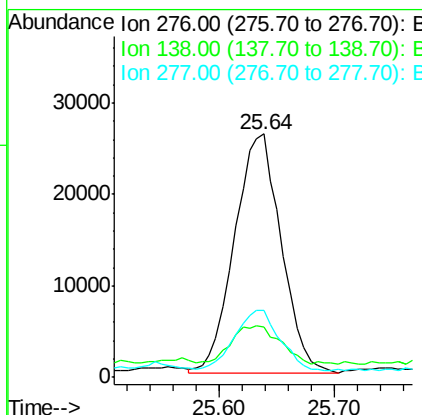
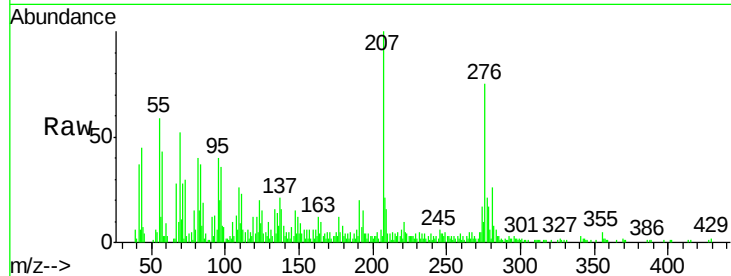
#92  
Indeno(1,2,3-cd)pyrene  
Concen: 2.87 ng/ul  
RT: 25.64 min Scan# 3902  
Delta R.T. 0.02 min  
Lab File: BM002113.D  
Acq: 29 Jul 2015 03:28

Instrument :  
BNA\_M  
ClientSampleId :  
C01Y6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.6  | 16.2  | 24.2  |
| 277     | 27.8  | 19.8  | 29.8  |

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#94  
Benzo(g,h,i)perylene  
Concen: 3.47 ng/ul  
RT: 26.31 min Scan# 4017  
Delta R.T. 0.02 min  
Lab File: BM002113.D  
Acq: 29 Jul 2015 03:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.8  | 13.8  | 20.6# |
| 277     | 24.5  | 18.2  | 27.2  |

