

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
 Data File : BM013989.D  
 Acq On : 30 Jan 2018 09:51  
 Operator : SJ/JU  
 Sample : J1233-16DL 5X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B20DL

Manual Integrations  
 APPROVED

Sohil  
 1/30/2018 3:35:04 PM

Quant Time: Jan 30 10:38:46 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 30 07:49:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.56  | 152  | 97175    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.34 | 136  | 399140   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 251108   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.97 | 188  | 617906   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.18 | 240  | 765023   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.36 | 264  | 780061   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |      |       |      |
|--------------------------------|-------|-----|---------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 1923    | 0.78 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.77  | 99  | 30944   | 4.15 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.92  | 67  | 22577   | 4.99 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.11  | 132 | 28888   | 4.75 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 24677   | 4.30 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 15765m  | 5.09 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 15091   | 4.61 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.00 | 165 | 29810   | 4.72 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.53 | 131 | 23942m  | 4.36 | ng/ul | 0.03 |
| 43) Dimethylphthalate-d6       | 13.64 | 166 | 122772  | 5.93 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.91 | 160 | 147163  | 5.58 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.50 | 143 | 5829m   | 1.73 | ng/ul | 0.04 |
| 57) Fluorene-d10               | 15.22 | 176 | 114138  | 6.27 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.38 | 200 | 11984   | 3.22 | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.07 | 188 | 187849  | 6.24 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.38 | 212 | 234687  | 6.59 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.22 | 264 | 220991m | 6.16 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |         |        | Ovalue |     |
|--------------------------|-------|-----|---------|--------|--------|-----|
| 28) Naphthalene          | 10.39 | 128 | 557851  | 28.093 | ng/ul  | 100 |
| 34) 2-Methylnaphthalene  | 12.02 | 142 | 385794  | 26.059 | ng/ul  | 96  |
| 40) 1,1'-Biphenyl        | 13.05 | 154 | 85296   | 4.081  | ng/ul# | 89  |
| 44) Dimethylphthalate    | 13.69 | 163 | 41177   | 2.024  | ng/ul  | 99  |
| 49) Acenaphthene         | 14.29 | 153 | 213056  | 12.740 | ng/ul  | 100 |
| 53) Dibenzofuran         | 14.63 | 168 | 353831  | 14.064 | ng/ul  | 92  |
| 58) Fluorene             | 15.28 | 166 | 274226  | 13.306 | ng/ul  | 98  |
| 68) Pentachlorophenol    | 16.64 | 266 | 15169   | 3.634  | ng/ul  | 96  |
| 69) Phenanthrene         | 17.02 | 178 | 1696240 | 49.386 | ng/ul  | 97  |
| 71) Anthracene           | 17.11 | 178 | 260054  | 7.341  | ng/ul  | 97  |
| 72) Carbazole            | 17.40 | 167 | 34560   | 1.182  | ng/ul  | 95  |
| 74) Fluoranthene         | 19.04 | 202 | 1142098 | 27.857 | ng/ul# | 95  |
| 77) Pyrene               | 19.41 | 202 | 743135  | 15.979 | ng/ul# | 97  |
| 80) Benzo(a)anthracene   | 21.16 | 228 | 183826  | 3.977  | ng/ul  | 97  |
| 82) Chrysene             | 21.22 | 228 | 151308  | 3.568  | ng/ul  | 97  |
| 85) Benzo(b)fluoranthene | 22.72 | 252 | 92124   | 1.923  | ng/ul# | 90  |
| 88) Benzo(a)pyrene       | 23.27 | 252 | 50343   | 1.112  | ng/ul# | 98  |

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

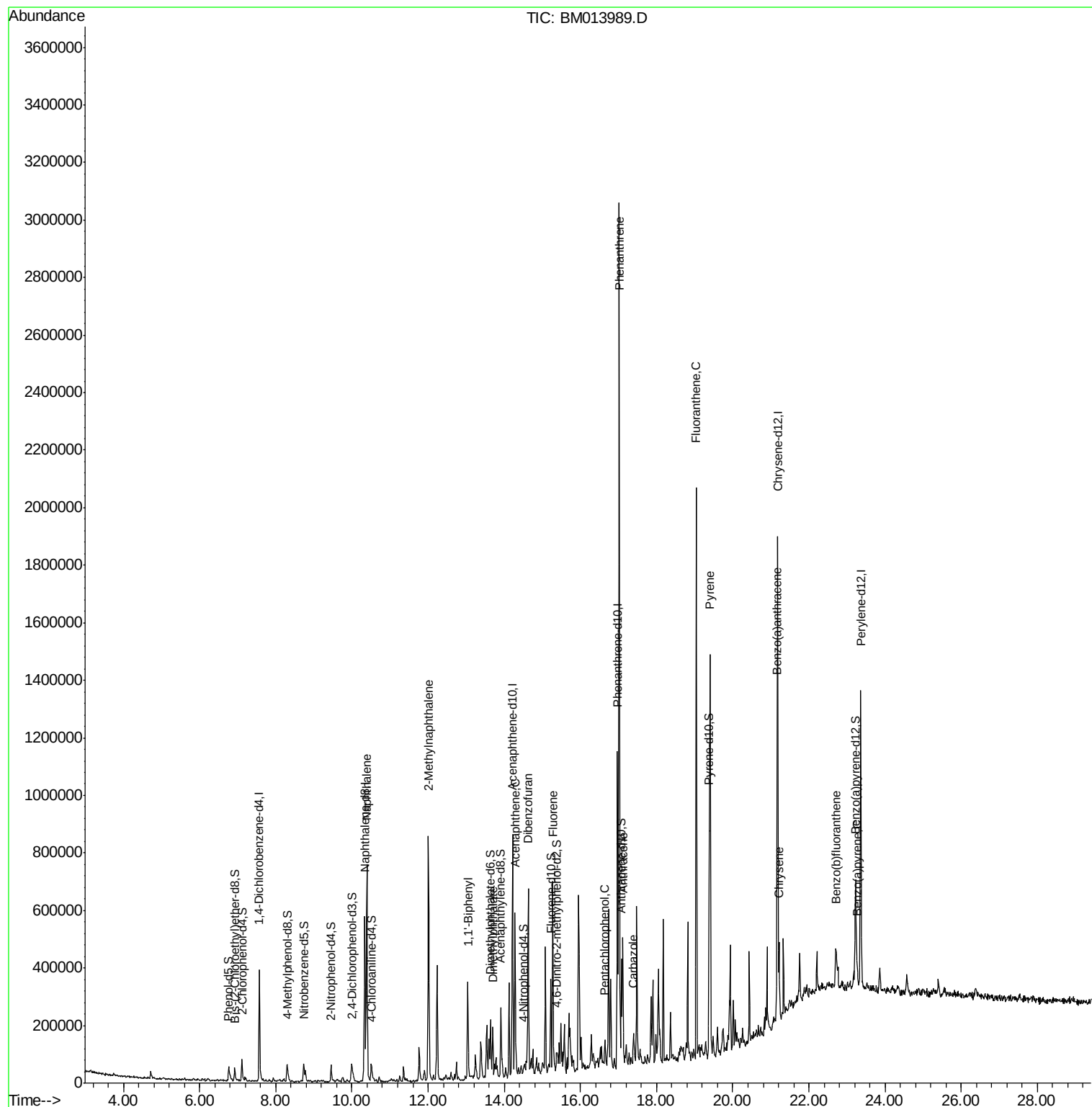
Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
Data File : BM013989.D  
Acq On : 30 Jan 2018 09:51  
Operator : SJ/JU  
Sample : J1233-16DL 5X  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

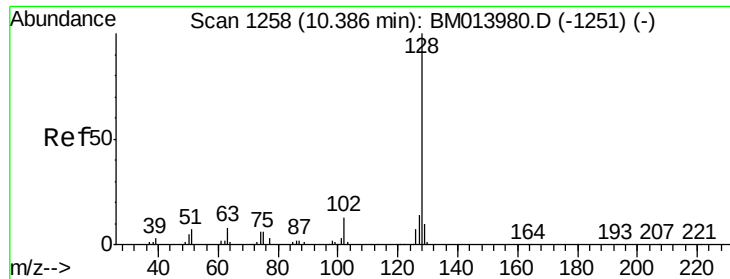
Instrument :  
BNA\_M  
ClientSampleId :  
F6B20DL

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1/30/2018 3:35:04 PM

Quant Time: Jan 30 10:38:46 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jan 30 07:49:34 2018  
Response via : Initial Calibration





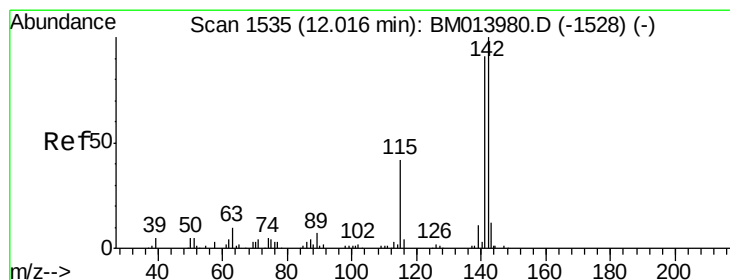
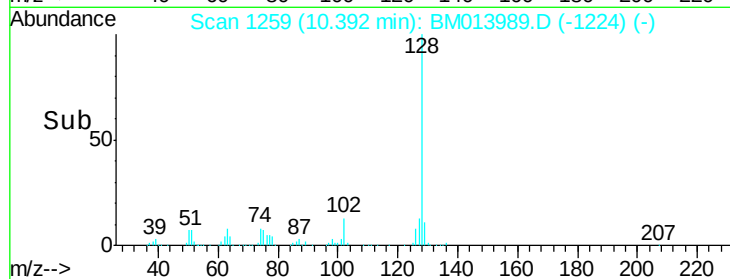
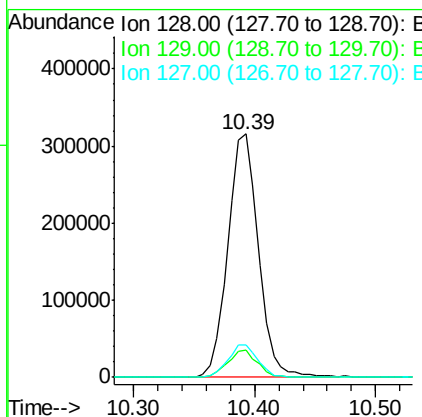
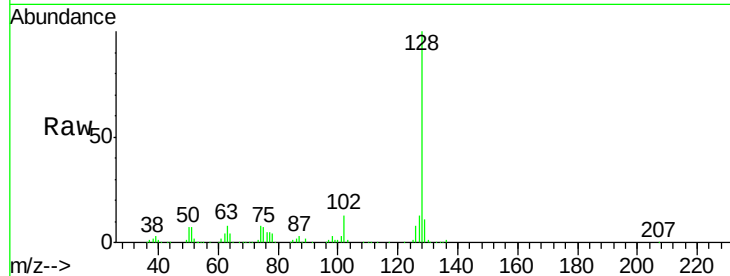
#28  
Naphthalene  
Concen: 28.093 ng/ul  
RT: 10.39 min Scan# 1259  
Delta R.T. 0.01 min  
Lab File: BM013989.D  
Acq: 30 Jan 2018 09:51

Instrument :  
BNA\_M  
ClientSampleId :  
F6B20DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 557851 |       |       |
| 129     | 11.1  |        | 8.8   | 13.2  |
| 127     | 13.5  |        | 10.6  | 16.0  |

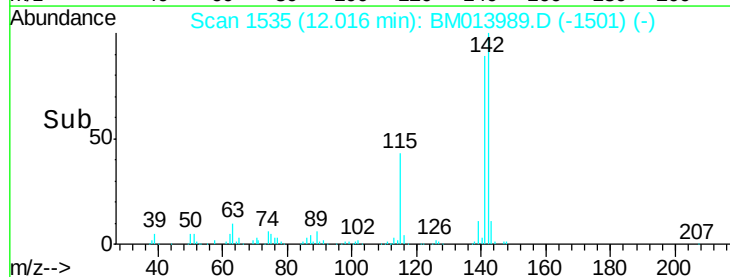
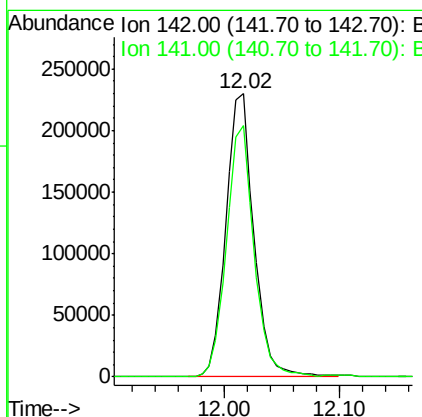
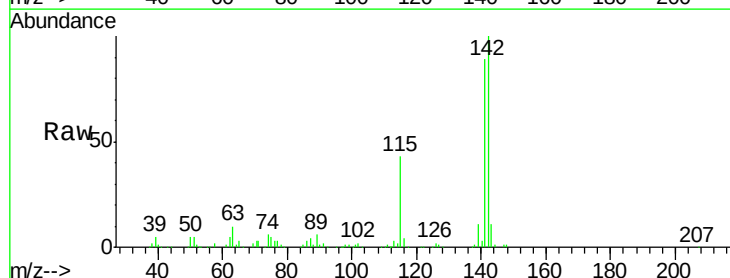
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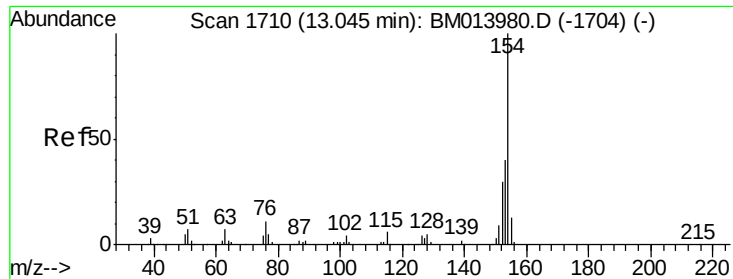
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#34  
2-Methylnaphthalene  
Concen: 26.059 ng/ul  
RT: 12.02 min Scan# 1535  
Delta R.T. 0.00 min  
Lab File: BM013989.D  
Acq: 30 Jan 2018 09:51

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 385794 |       |       |
| 141     | 88.8  |        | 74.1  | 111.1 |





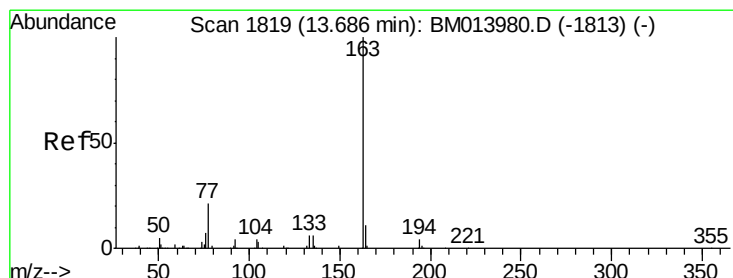
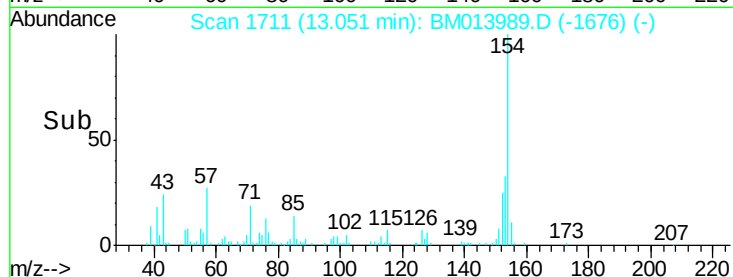
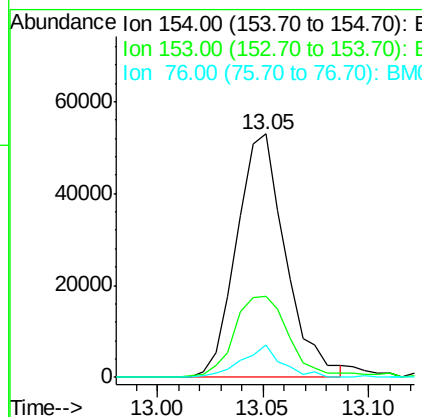
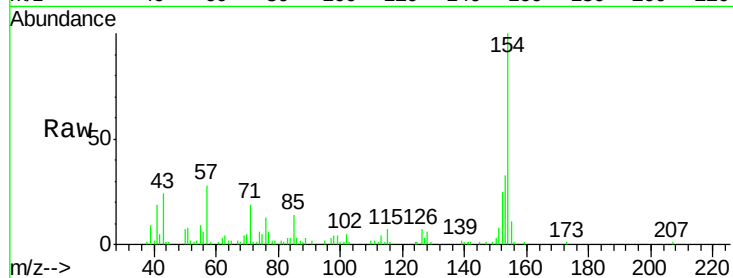
#40  
1,1'-Biphenyl  
Concen: 4.081 ng/ul  
RT: 13.05 min Scan# 1711  
Delta R.T. 0.01 min  
Lab File: BM013989.D  
Acq: 30 Jan 2018 09:51

Instrument :  
BNA\_M  
ClientSampleId :  
F6B20DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 154     | 100   |            |       |
| 153     | 33.1  | 32.6       | 48.8  |
| 76      | 13.2  | 8.5        | 12.7  |

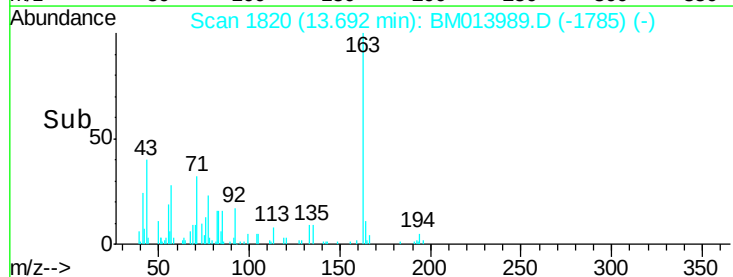
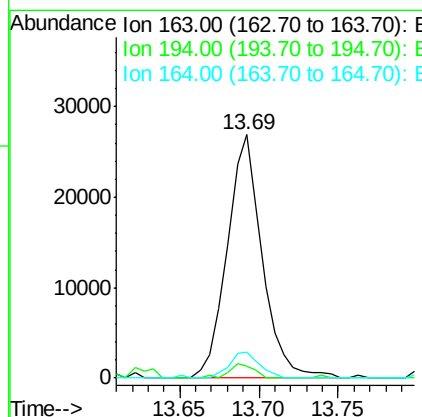
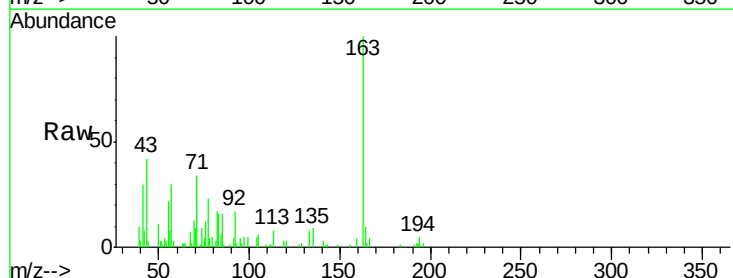
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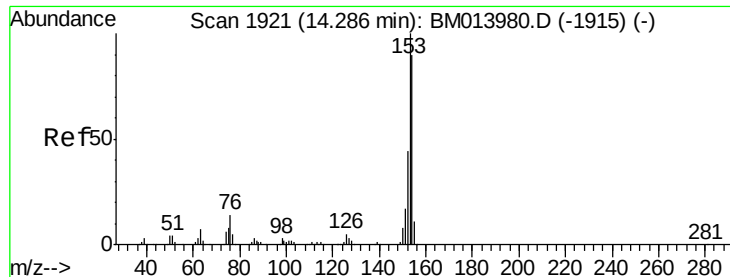
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#44  
Dimethylphthalate  
Concen: 2.024 ng/ul  
RT: 13.69 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: BM013989.D  
Acq: 30 Jan 2018 09:51

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 5.0   | 3.5        | 5.3   |
| 164     | 10.4  | 8.2        | 12.4  |





#49

Acenaphthene

Concen: 12.740 ng/ul

RT: 14.29 min Scan# 1921

Delta R.T. 0.00 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

Instrument :

BNA\_M

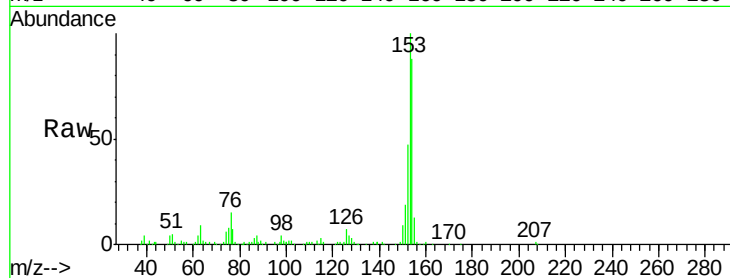
ClientSampleId :

F6B20DL

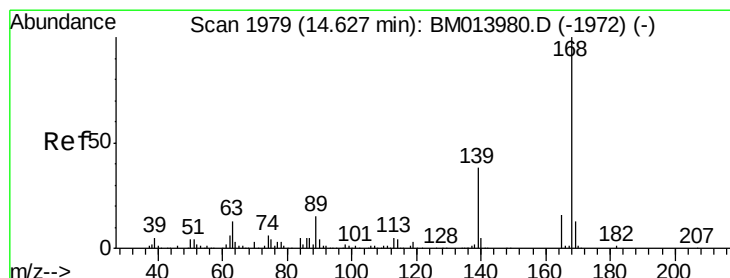
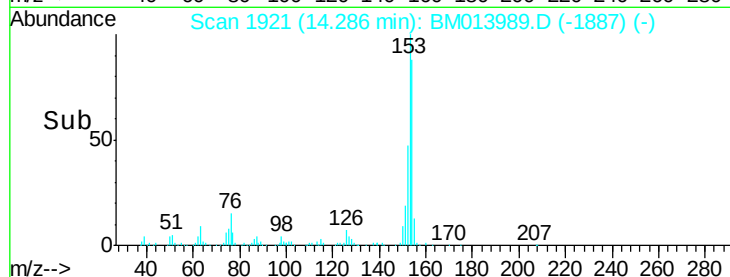
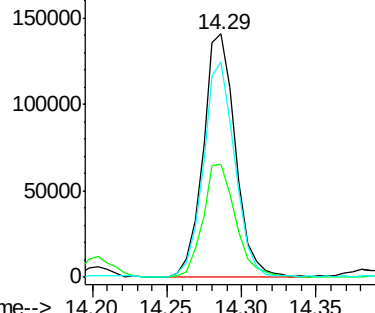
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 153   | Resp: | 213056 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 46.7  | 37.6  | 56.4   |
| 154       | 88.5  | 70.4  | 105.6  |

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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: 14.064 ng/ul

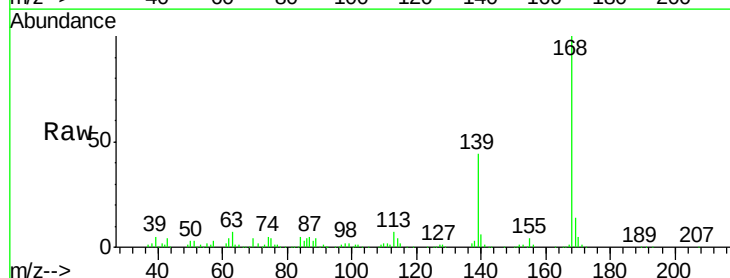
RT: 14.63 min Scan# 1979

Delta R.T. 0.00 min

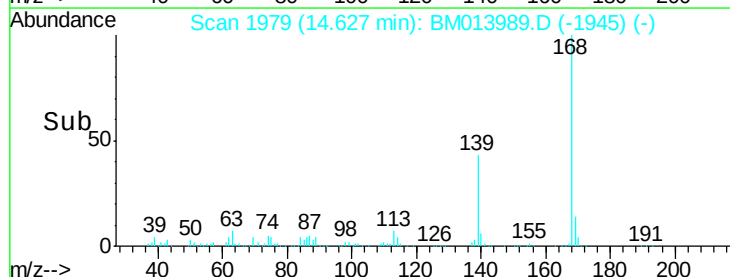
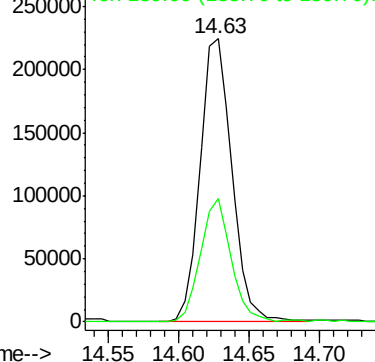
Lab File: BM013989.D

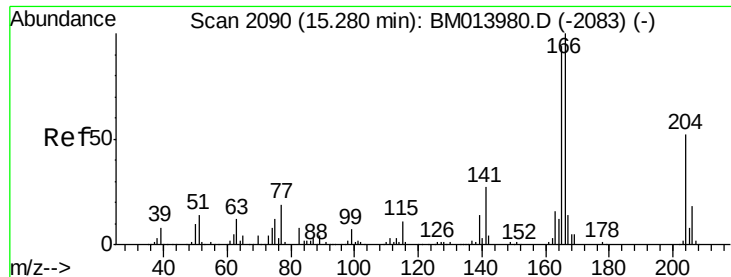
Acq: 30 Jan 2018 09:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 353831 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 43.6  | 30.8  | 46.2   |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 13.306 ng/ul

RT: 15.28 min Scan# 2090

Delta R.T. 0.00 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

Instrument :

BNA\_M

ClientSampled :

F6B20DL

Tot Ion:166 Resp: 274226

Ion Ratio Lower Upper

166 100

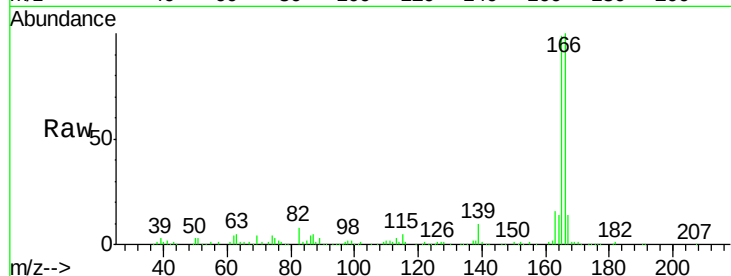
165 99.1 77.9 116.9

167 14.2 10.6 16.0

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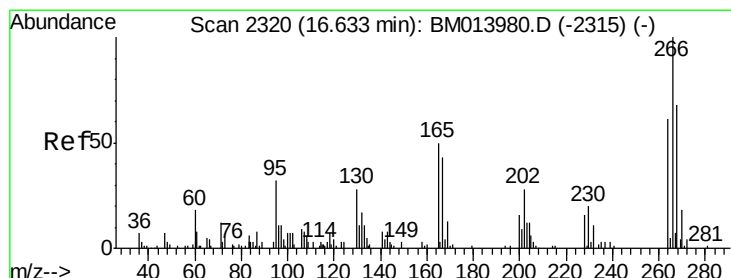
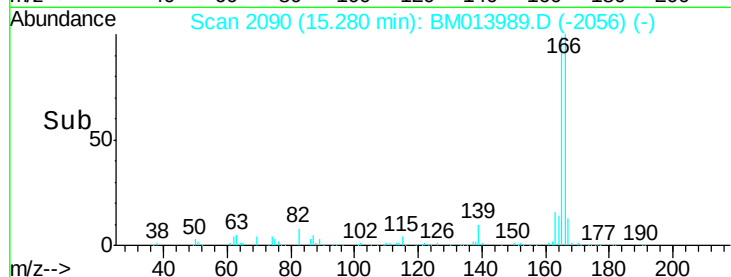
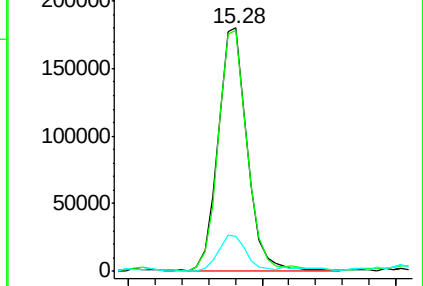
1/30/2018 3:35:04 PM



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



#68

Pentachlorophenol

Concen: 3.634 ng/ul

RT: 16.64 min Scan# 2321

Delta R.T. 0.01 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

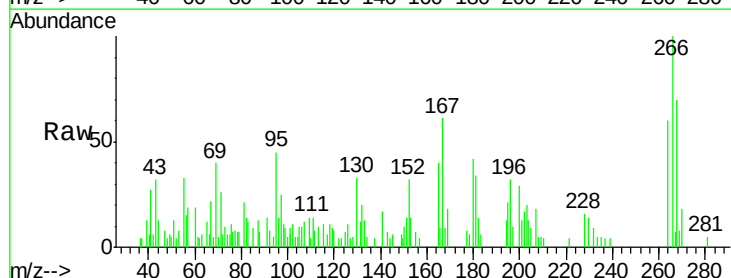
Tgt Ion:266 Resp: 15169

Ion Ratio Lower Upper

266 100

264 59.9 49.3 73.9

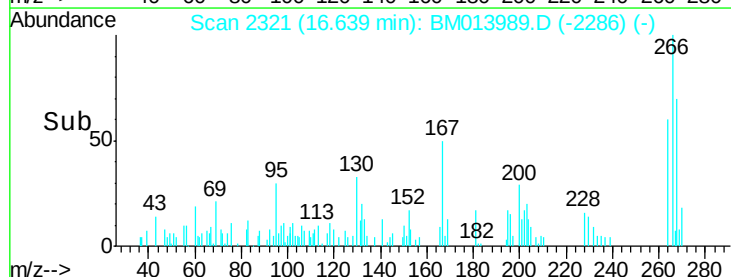
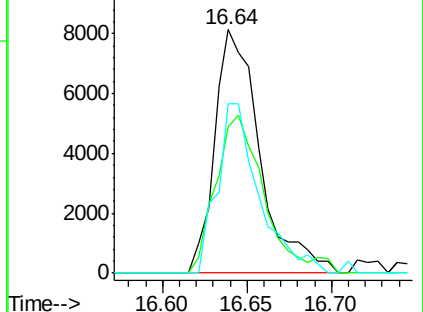
268 69.6 52.6 78.8

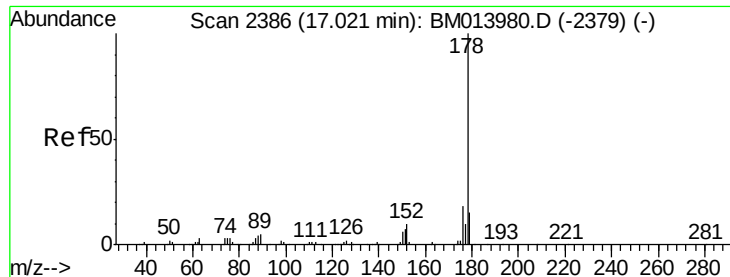


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#69

Phenanthrene

Concen: 49.386 ng/ul

RT: 17.02 min Scan# 2386

Delta R.T. 0.00 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

Instrument :

BNA\_M

ClientSampled :

F6B20DL

Tot Ion:178 Resp: 1696240

Ion Ratio Lower Upper

178 100

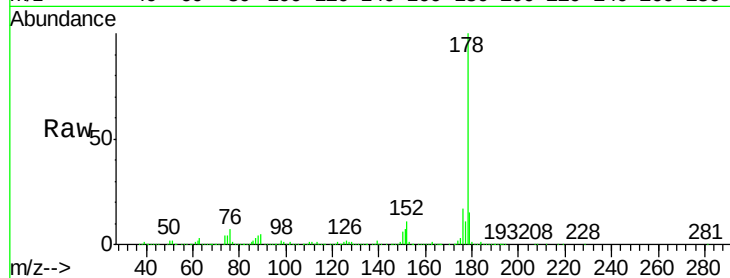
179 14.6 12.6 19.0

176 17.5 14.9 22.3

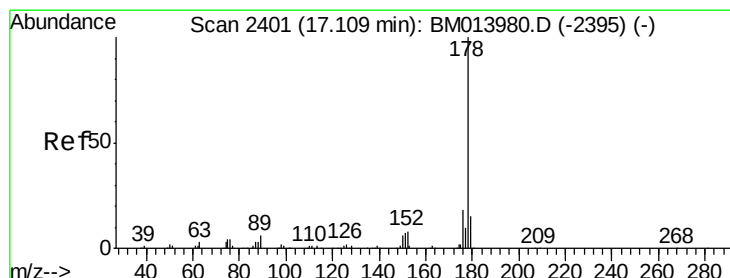
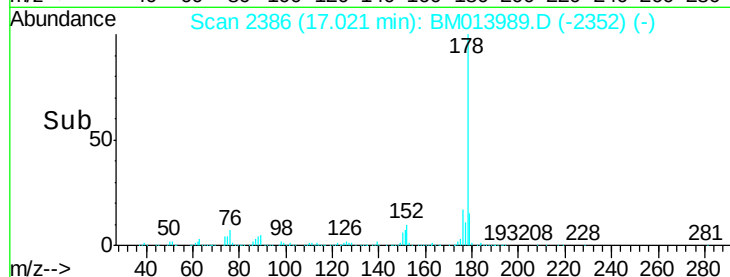
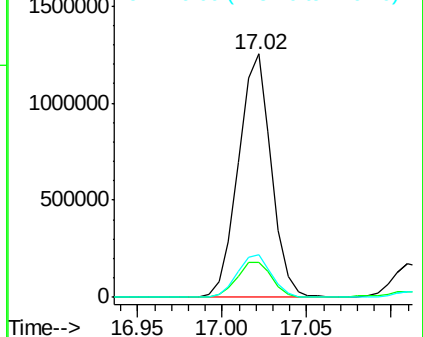
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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 7.341 ng/ul

RT: 17.11 min Scan# 2401

Delta R.T. 0.00 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

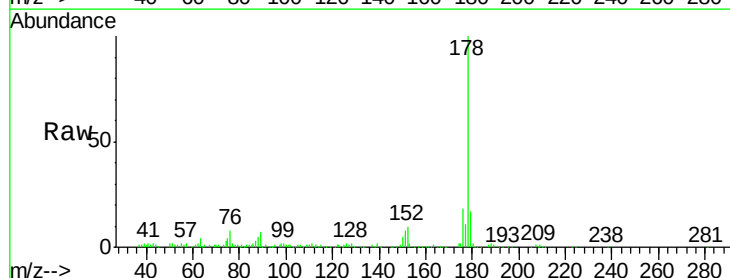
Tgt Ion:178 Resp: 260054

Ion Ratio Lower Upper

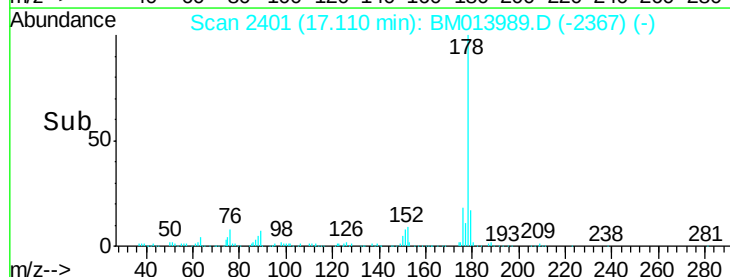
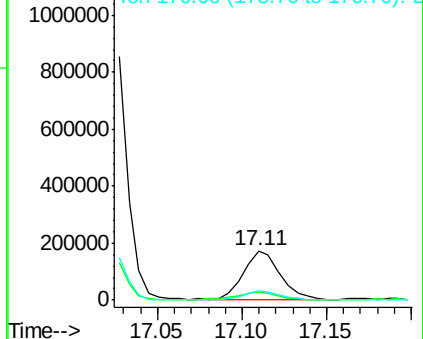
178 100

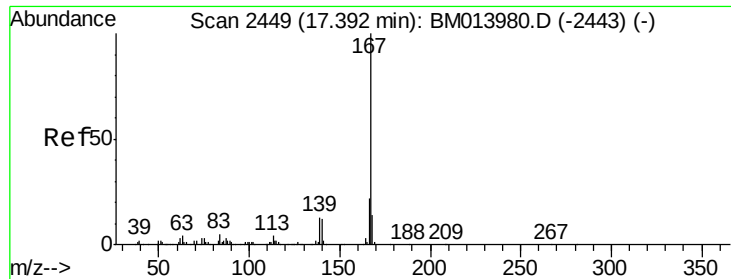
179 17.2 11.7 17.5

176 18.3 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





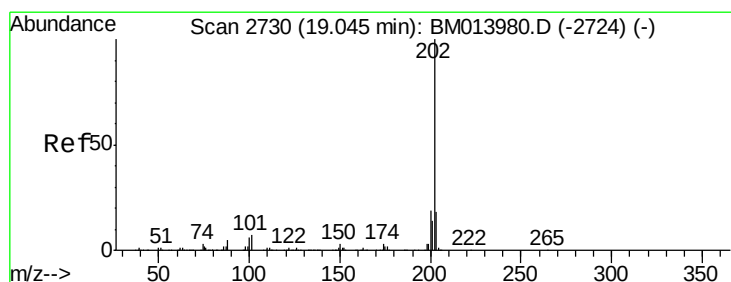
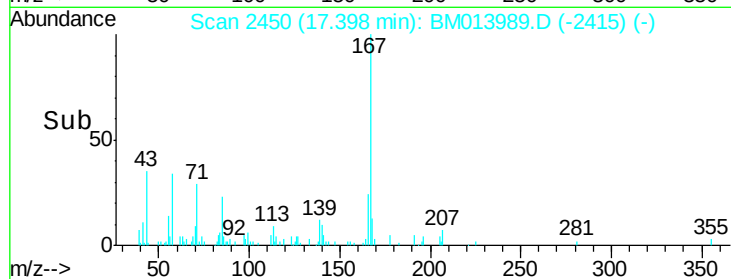
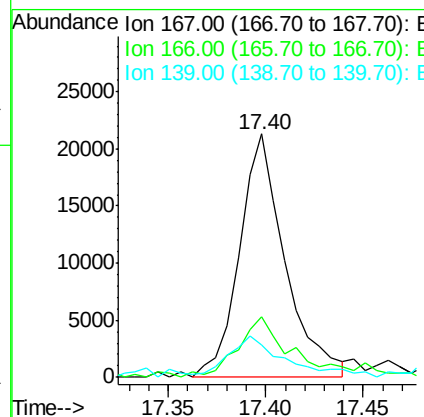
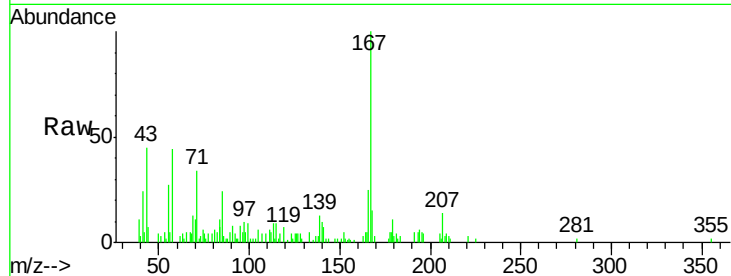
#72  
 Carbazole  
 Concen: 1.182 ng/ul  
 RT: 17.40 min Scan# 2450  
 Delta R.T. 0.01 min  
 Lab File: BM013989.D  
 Acq: 30 Jan 2018 09:51

Instrument :  
 BNA\_M  
 ClientSampleID :  
 F6B20DL

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 167     | 100  |       |      |       |       |
| 166     | 24.9 |       | 17.1 | 25.7  |       |
| 139     | 13.1 |       | 10.0 | 15.0  |       |

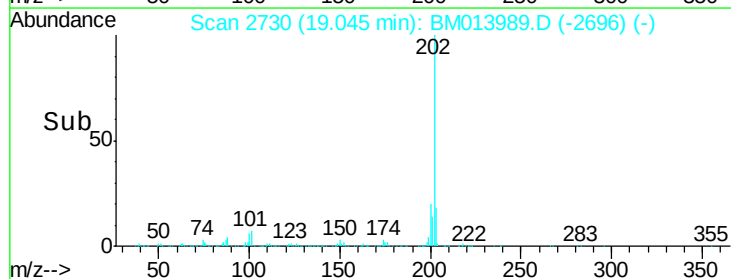
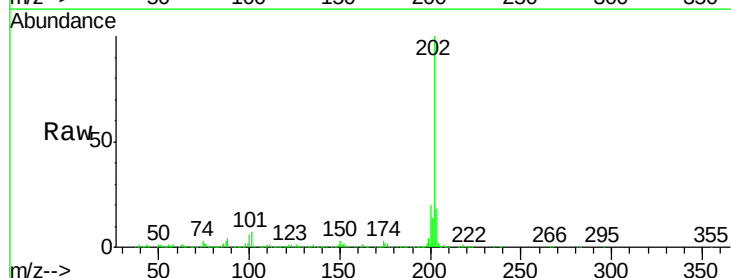
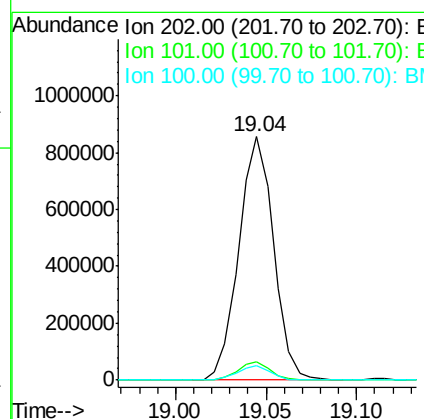
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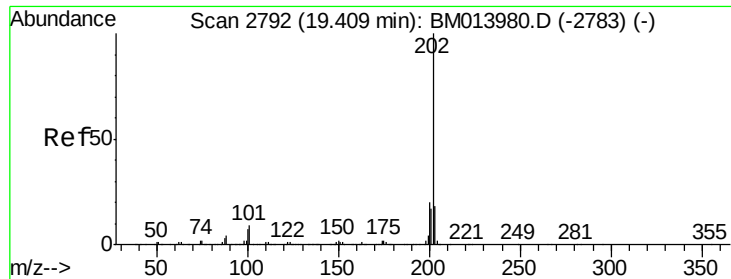


#74  
 Fluoranthene  
 Concen: 27.857 ng/ul  
 RT: 19.04 min Scan# 2730  
 Delta R.T. 0.00 min  
 Lab File: BM013989.D  
 Acq: 30 Jan 2018 09:51

| Tgt Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 202     | 100 |       |      |       |       |
| 101     | 7.3 |       | 4.6  | 7.0#  |       |
| 100     | 6.0 |       | 3.4  | 5.2#  |       |







#77

Pvrene

Concen: 15.979 ng/ul

RT: 19.41 min Scan# 2792

Delta R.T. 0.00 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

Instrument :

BNA\_M

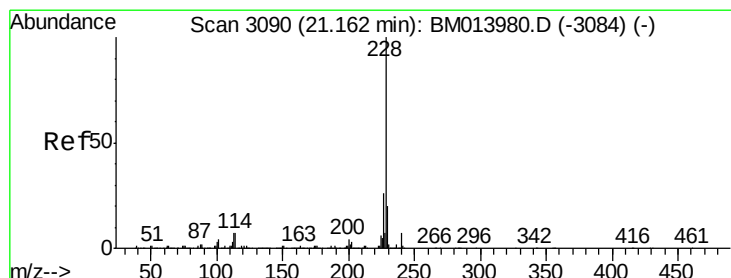
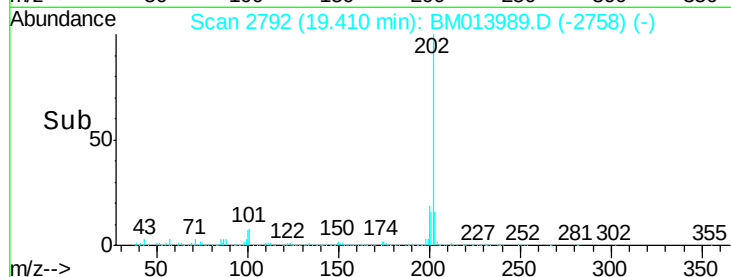
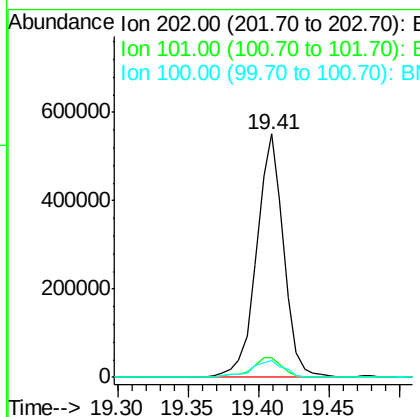
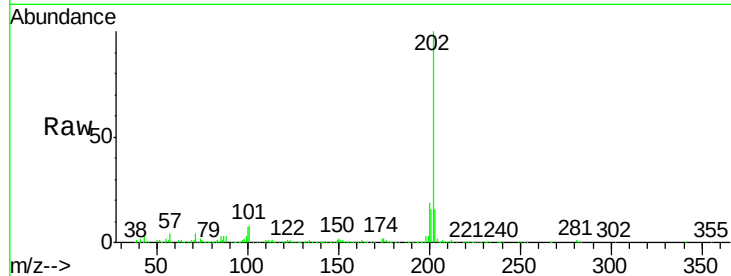
ClientSampled :

F6B20DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 743135 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.0   | 5.1   | 7.7#   |
| 100       | 6.8   | 4.9   | 7.3    |

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#80

Benzo(a)anthracene

Concen: 3.977 ng/ul

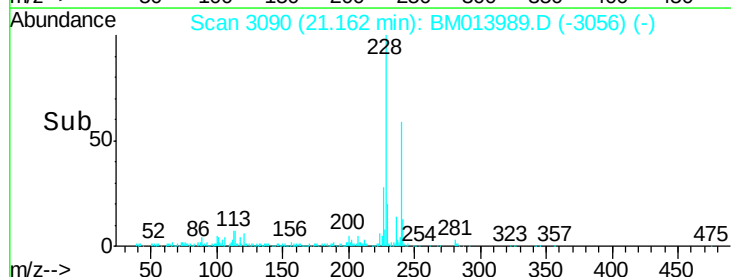
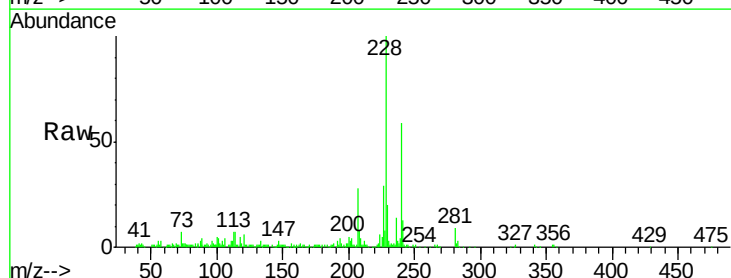
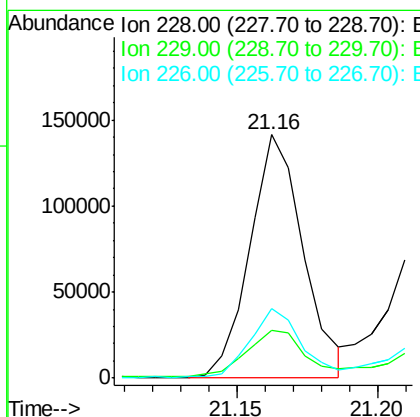
RT: 21.16 min Scan# 3090

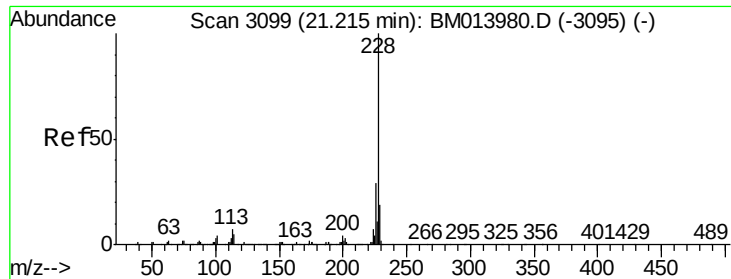
Delta R.T. 0.00 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 183826 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 19.8  | 15.4  | 23.0   |
| 226       | 28.7  | 21.4  | 32.0   |





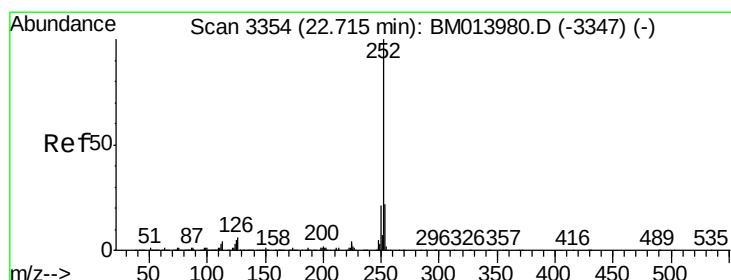
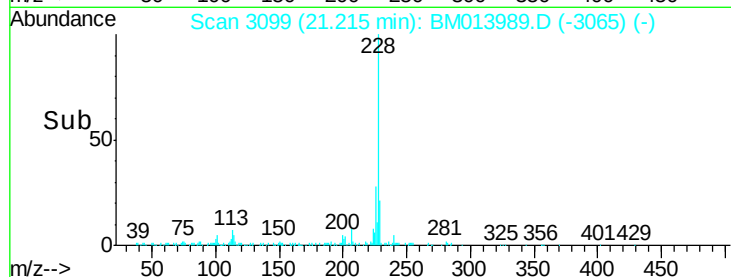
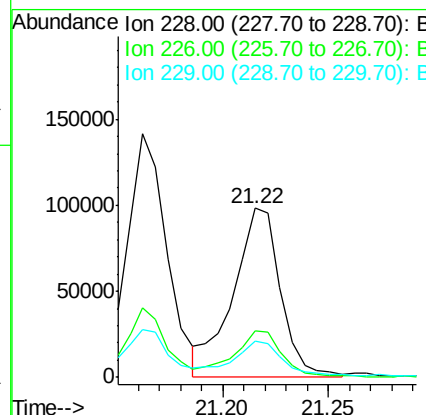
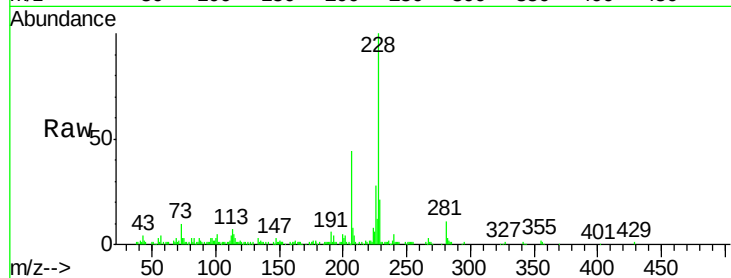
#82  
Chrysene  
Concen: 3.568 ng/ul  
RT: 21.22 min Scan# 3099  
Delta R.T. 0.00 min  
Lab File: BM013989.D  
Acq: 30 Jan 2018 09:51

Instrument :  
BNA\_M  
ClientSampled :  
F6B20DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.7  | 23.4  | 35.2  |
| 229     | 21.3  | 15.5  | 23.3  |

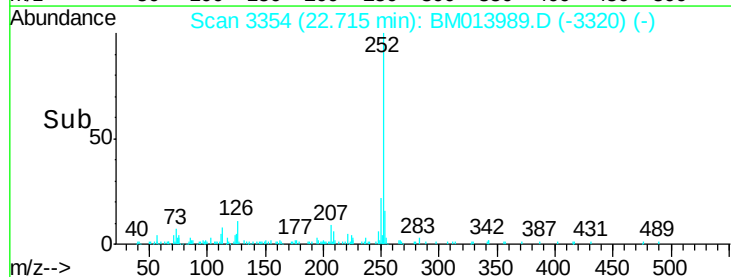
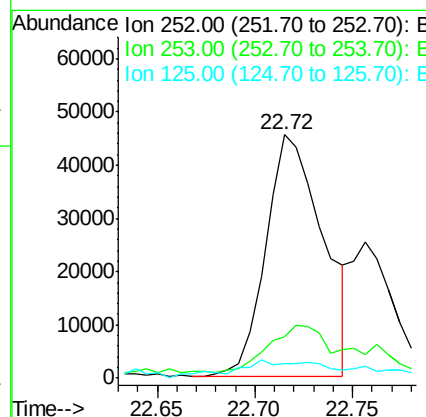
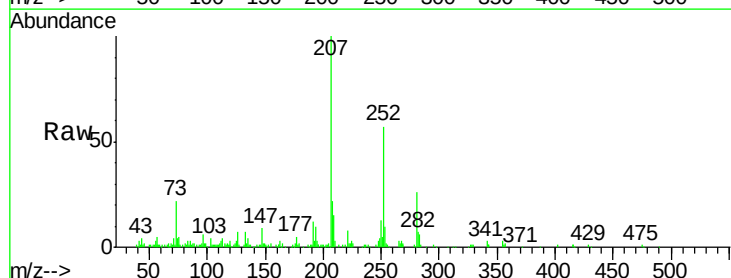
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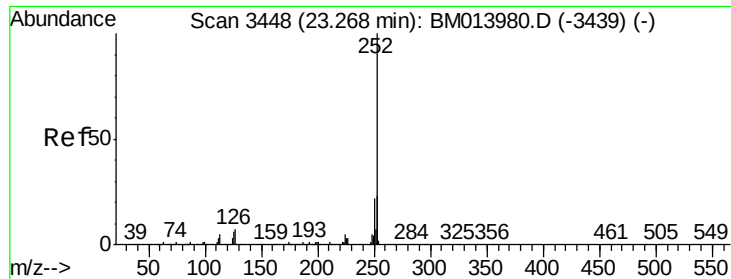
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#85  
Benzo(b)fluoranthene  
Concen: 1.923 ng/ul  
RT: 22.72 min Scan# 3354  
Delta R.T. 0.00 min  
Lab File: BM013989.D  
Acq: 30 Jan 2018 09:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 17.0  | 17.9  | 26.9# |
| 125     | 6.0   | 3.6   | 5.4#  |





#88

Benzo(a)pyrene

Concen: 1.112 ng/ul

RT: 23.27 min Scan# 3448

Delta R.T. 0.00 min

Lab File: BM013989.D

Acq: 30 Jan 2018 09:51

Instrument :

BNA\_M

ClientSampleId :

F6B20DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 50343 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.5  | 18.2  | 27.2  |
| 125       | 7.6   | 4.0   | 6.0   |

Manual Integrations  
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1/30/2018 3:35:04 PM

