

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
 Data File : BM013983.D  
 Acq On : 30 Jan 2018 06:16  
 Operator : SJ/JU  
 Sample : J1243-12DL 30X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B35DL

Manual Integrations  
 APPROVED

Sohil  
 1/30/2018 3:34:54 PM

Quant Time: Jan 30 08:16:52 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 | 7.57  | 152  | 84021    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.34 | 136  | 329010   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 220900   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.97 | 188  | 521399   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.18 | 240  | 660322   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.36 | 264  | 638983   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.15  | 96  | 283    | 0.13 | ng/uL | 0.02  |
| 5) Phenol-d5                   | 6.79  | 99  | 1278   | 0.20 | ng/ul | 0.03  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 1843   | 0.47 | ng/ul | 0.02  |
| 9) 2-Chlorophenol-d4           | 7.12  | 132 | 3457   | 0.66 | ng/ul | 0.02  |
| 13) 4-Methylphenol-d8          | 8.32  | 113 | 2389m  | 0.48 | ng/ul | 0.03  |
| 19) Nitrobenzene-d5            | 8.76  | 128 | 1617   | 0.63 | ng/ul | 0.04  |
| 22) 2-Nitrophenol-d4           | 9.46  | 143 | 1143   | 0.42 | ng/ul | 0.02  |
| 26) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 2762m  | 0.53 | ng/ul | 0.05  |
| 29) 4-Chloroaniline-d4         | 10.52 | 131 | 817    | 0.18 | ng/ul | 0.02  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 17549  | 0.96 | ng/ul | 0.01  |
| 46) Acenaphthylene-d8          | 13.91 | 160 | 19785  | 0.85 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.30 | 143 | 303    | 0.10 | ng/ul | -0.16 |
| 57) Fluorene-d10               | 15.22 | 176 | 15948  | 1.00 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 537    | 0.17 | ng/ul | 0.04  |
| 70) Anthracene-d10             | 17.07 | 188 | 26567m | 1.05 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.38 | 212 | 30467  | 0.99 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.22 | 264 | 27906  | 0.95 | ng/ul | 0.00  |

## Target Compounds

|                          |       |     |         |        | Ovalue |    |
|--------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene          | 10.39 | 128 | 1122533 | 68.580 | ng/ul  | 99 |
| 34) 2-Methylnaphthalene  | 12.01 | 142 | 559624  | 45.858 | ng/ul  | 92 |
| 40) 1,1'-Biphenyl        | 13.05 | 154 | 139338  | 7.578  | ng/ul  | 97 |
| 49) Acenaphthene         | 14.29 | 153 | 472030  | 32.085 | ng/ul  | 97 |
| 53) Dibenzofuran         | 14.63 | 168 | 531707  | 24.024 | ng/ul  | 98 |
| 58) Fluorene             | 15.28 | 166 | 411133  | 22.678 | ng/ul  | 96 |
| 68) Pentachlorophenol    | 16.65 | 266 | 13326   | 3.783  | ng/ul  | 89 |
| 69) Phenanthrene         | 17.02 | 178 | 2230196 | 76.950 | ng/ul  | 99 |
| 71) Anthracene           | 17.11 | 178 | 376297  | 12.588 | ng/ul  | 96 |
| 72) Carbazole            | 17.39 | 167 | 88742   | 3.596  | ng/ul  | 98 |
| 74) Fluoranthene         | 19.04 | 202 | 1298790 | 37.542 | ng/ul# | 97 |
| 77) Pyrene               | 19.41 | 202 | 852263  | 21.231 | ng/ul# | 98 |
| 80) Benzo(a)anthracene   | 21.16 | 228 | 181051  | 4.538  | ng/ul  | 99 |
| 82) Chrysene             | 21.22 | 228 | 139846  | 3.821  | ng/ul  | 97 |
| 85) Benzo(b)fluoranthene | 22.72 | 252 | 85726   | 2.185  | ng/ul# | 95 |

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

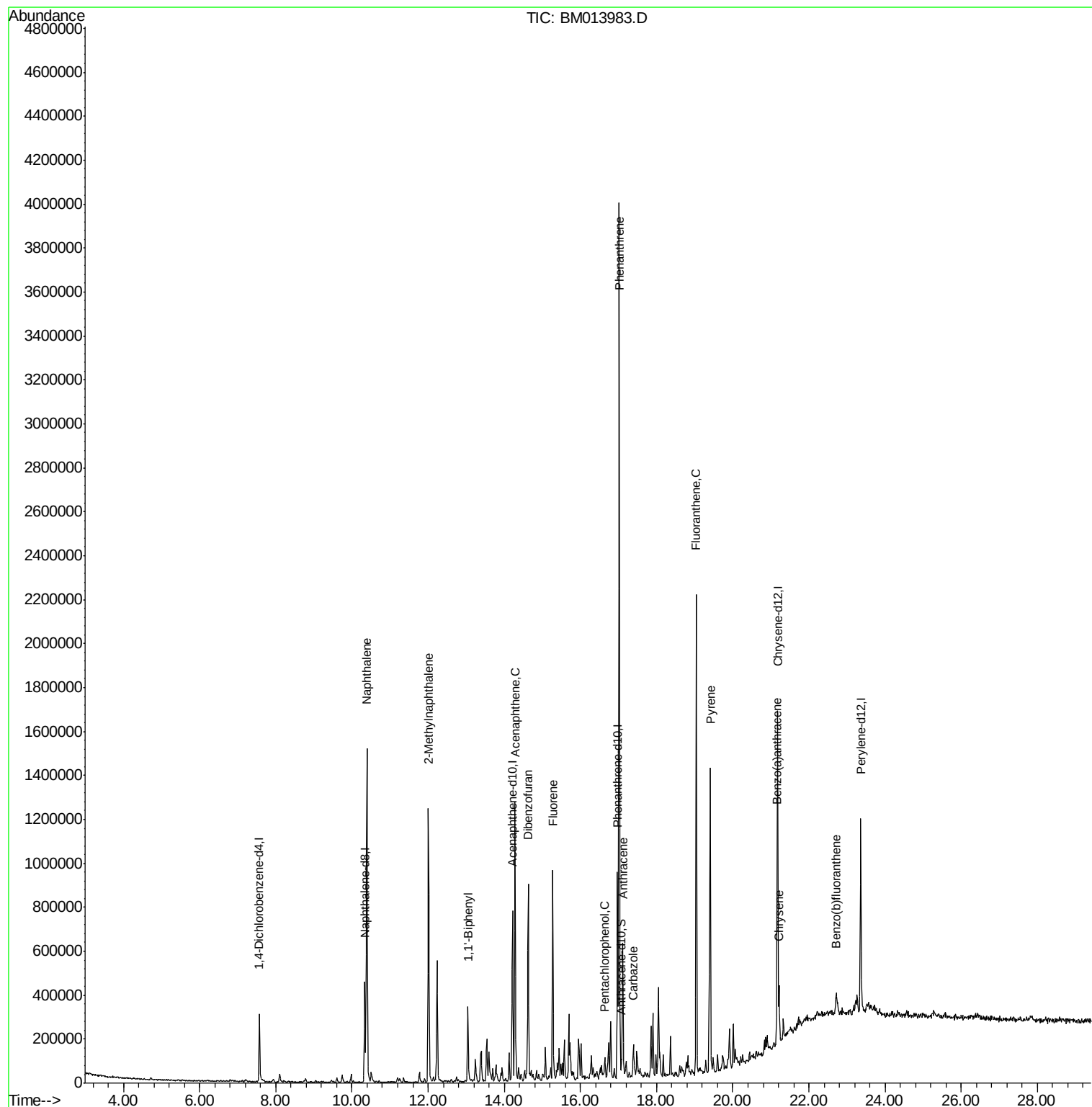
Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
Data File : BM013983.D  
Acq On : 30 Jan 2018 06:16  
Operator : SJ/JU  
Sample : J1243-12DL 30X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

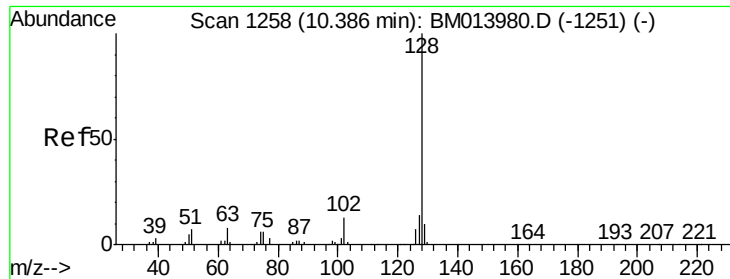
Instrument :  
BNA\_M  
ClientSampleId :  
F6B35DL

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Quant Time: Jan 30 08:16:52 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





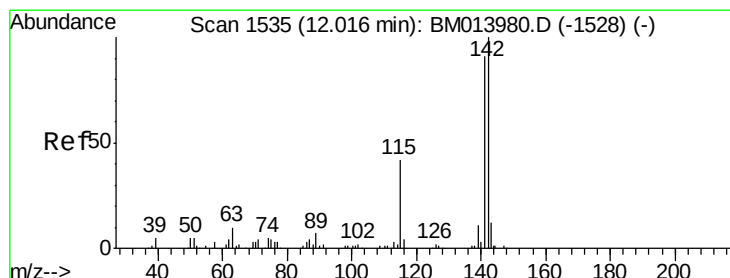
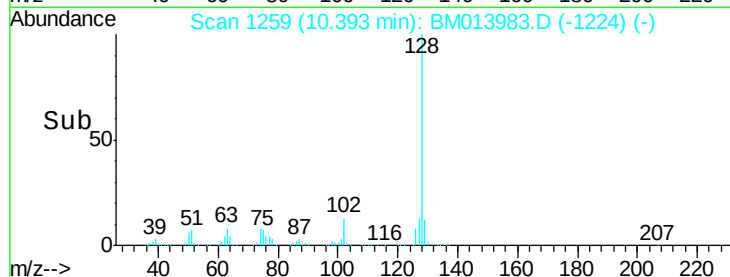
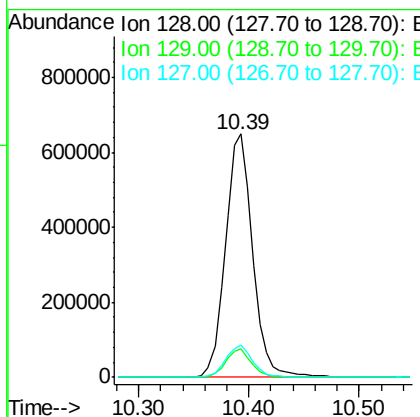
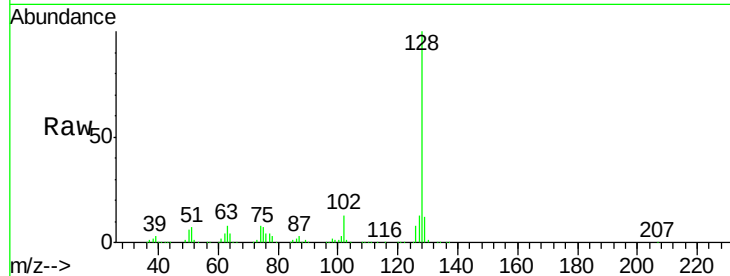
#28  
Naphthalene  
Concen: 68.580 ng/ul  
RT: 10.39 min Scan# 1259  
Delta R.T. 0.01 min  
Lab File: BM013983.D  
Acq: 30 Jan 2018 06:16

Instrument :  
BNA\_M  
ClientSampleId :  
F6B35DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.5  | 8.8   | 13.2  |
| 127     | 13.5  | 10.6  | 16.0  |

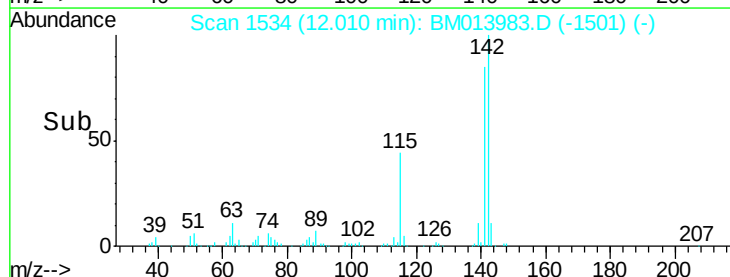
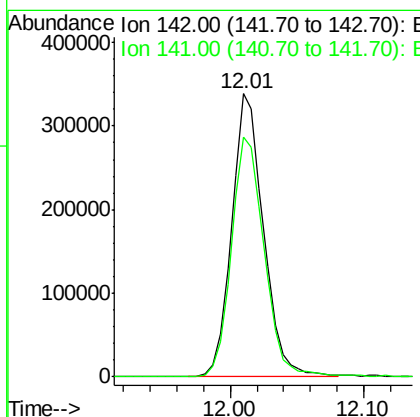
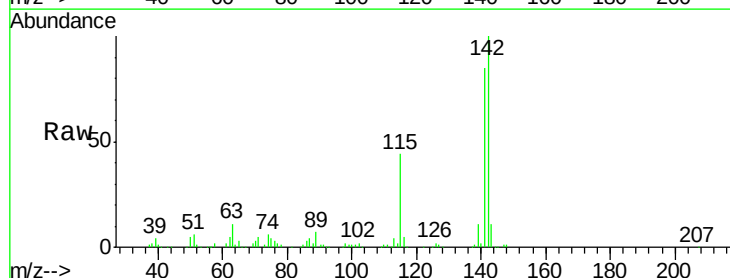
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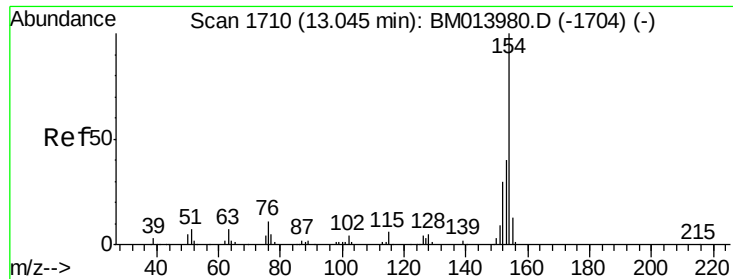
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#34  
2-Methylnaphthalene  
Concen: 45.858 ng/ul  
RT: 12.01 min Scan# 1534  
Delta R.T. -0.01 min  
Lab File: BM013983.D  
Acq: 30 Jan 2018 06:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 84.7  | 74.1  | 111.1 |





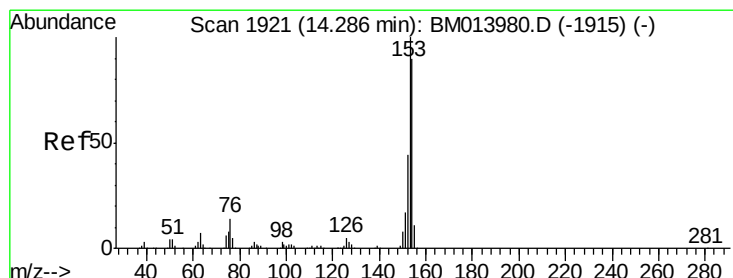
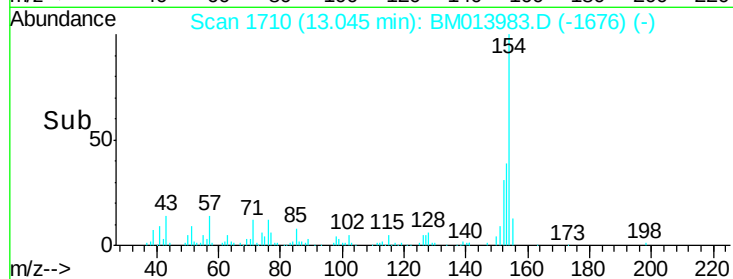
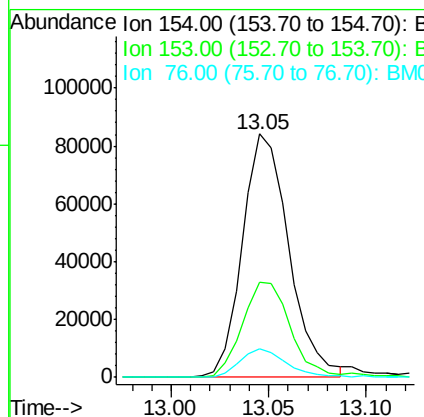
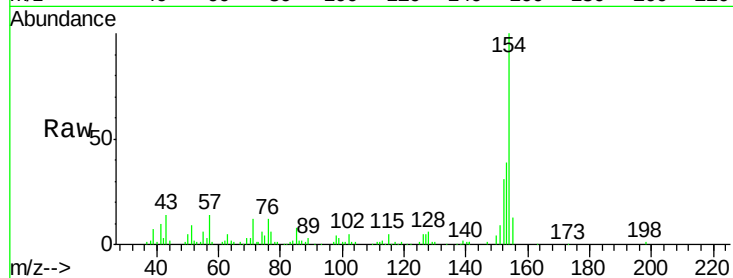
#40  
1,1'-Biphenyl  
Concen: 7.578 ng/ul  
RT: 13.05 min Scan# 1710  
Delta R.T. 0.00 min  
Lab File: BM013983.D  
Acq: 30 Jan 2018 06:16

Instrument :  
BNA\_M  
ClientSampled :  
F6B35DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 139338 |       |       |
| 153     | 39.2  |        | 32.6  | 48.8  |
| 76      | 11.9  |        | 8.5   | 12.7  |

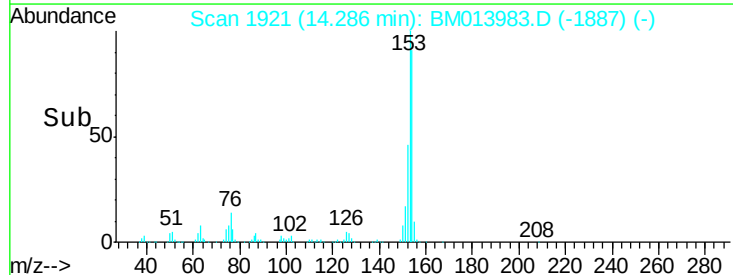
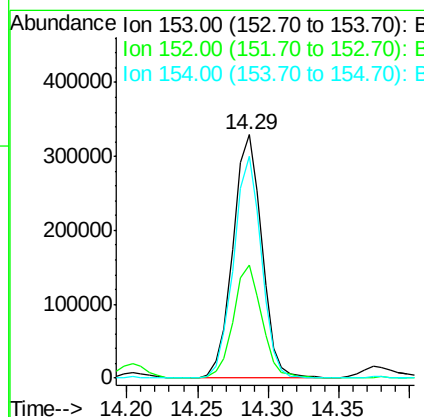
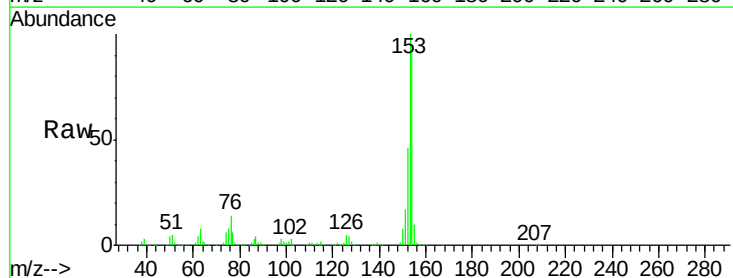
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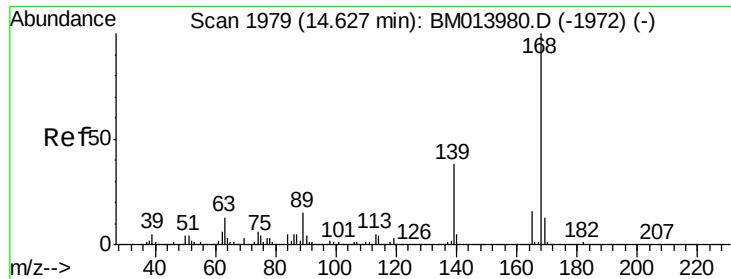
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#49  
Acenaphthene  
Concen: 32.085 ng/ul  
RT: 14.29 min Scan# 1921  
Delta R.T. 0.00 min  
Lab File: BM013983.D  
Acq: 30 Jan 2018 06:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 153     | 100   | 472030 |       |       |
| 152     | 46.5  |        | 37.6  | 56.4  |
| 154     | 91.2  |        | 70.4  | 105.6 |





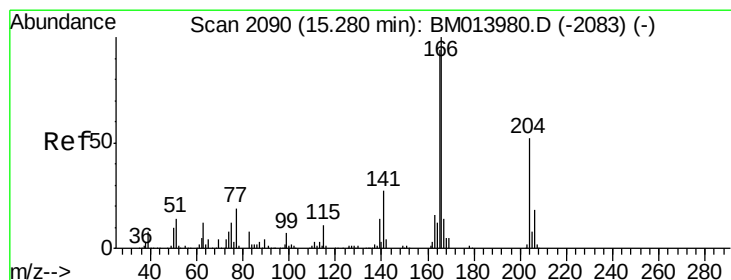
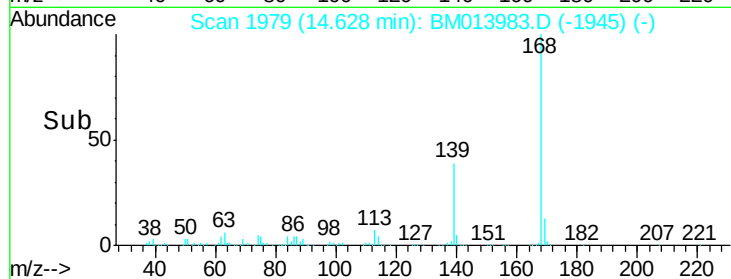
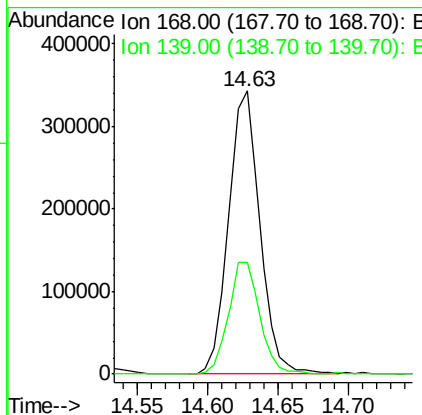
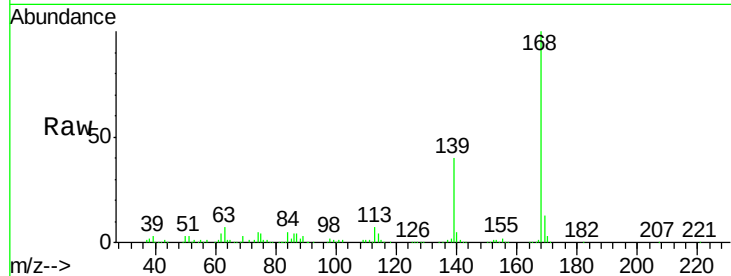
#53  
Dibenzenofuran  
Concen: 24.024 ng/ul  
RT: 14.63 min Scan# 1979  
Delta R.T. 0.00 min  
Lab File: BM013983.D  
Acq: 30 Jan 2018 06:16

Instrument :  
BNA\_M  
ClientSampleId :  
F6B35DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 39.5  | 30.8  | 46.2  |

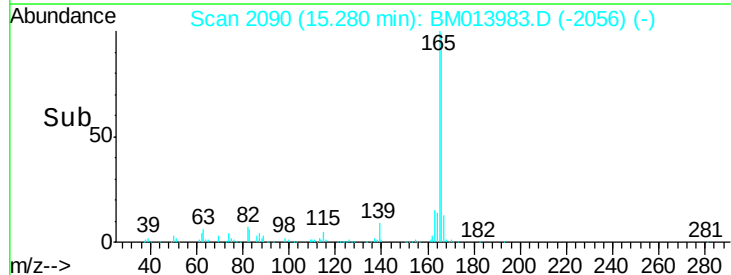
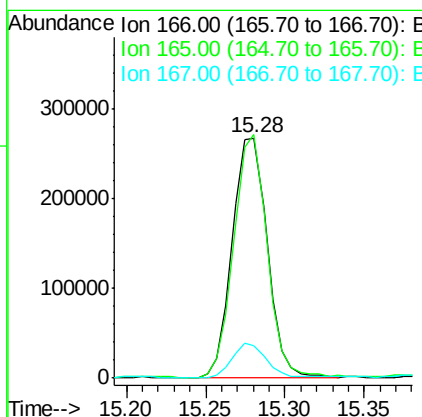
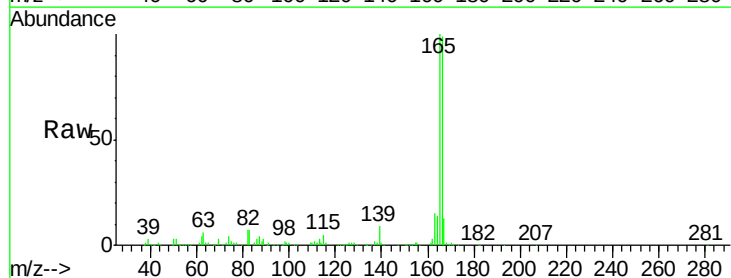
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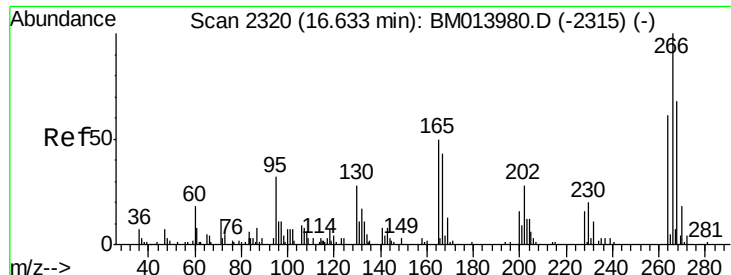
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#58  
Fluorene  
Concen: 22.678 ng/ul  
RT: 15.28 min Scan# 2090  
Delta R.T. 0.00 min  
Lab File: BM013983.D  
Acq: 30 Jan 2018 06:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.3 | 77.9  | 116.9 |
| 167     | 13.6  | 10.6  | 16.0  |





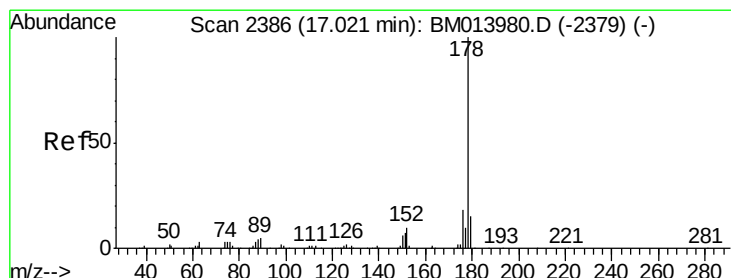
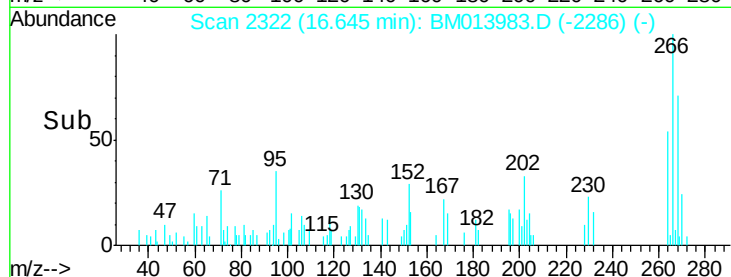
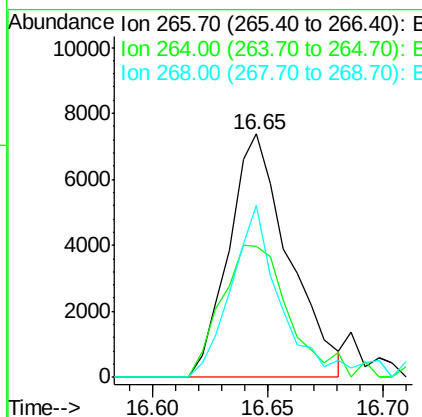
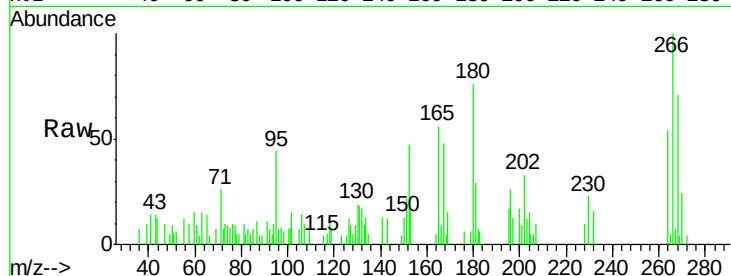
#68  
 Pentachlorophenol  
 Concen: 3.783 ng/ul  
 RT: 16.65 min Scan# 2322  
 Delta R.T. 0.01 min  
 Lab File: BM013983.D  
 Acq: 30 Jan 2018 06:16

Instrument :  
 BNA\_M  
 ClientSampled :  
 F6B35DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 54.0  | 49.3  | 73.9  |
| 268     | 74.8  | 52.6  | 78.8  |

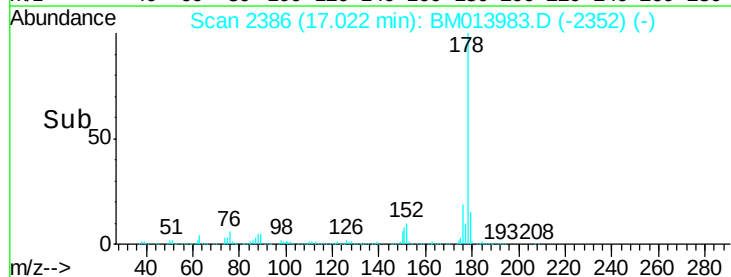
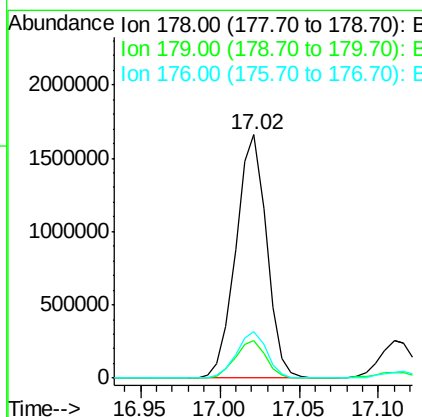
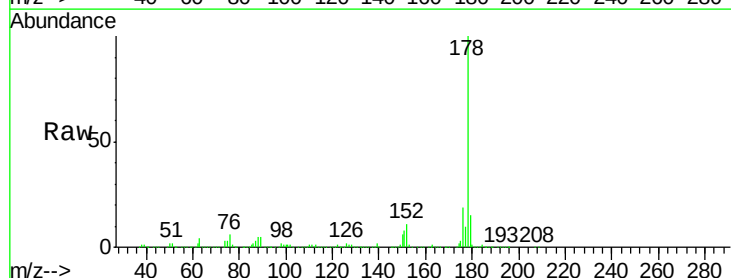
Manual Integrations  
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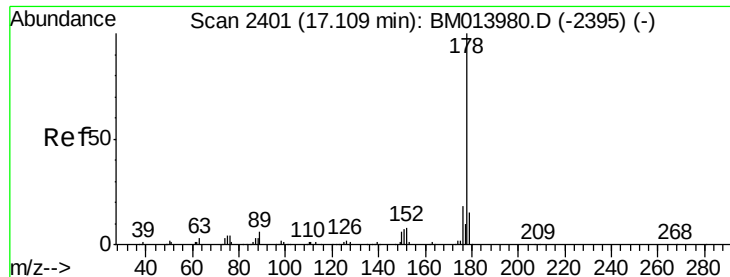
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 1/30/2018 3:34:54 PM



#69  
 Phenanthrene  
 Concen: 76.950 ng/ul  
 RT: 17.02 min Scan# 2386  
 Delta R.T. 0.00 min  
 Lab File: BM013983.D  
 Acq: 30 Jan 2018 06:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.6  | 19.0  |
| 176     | 18.9  | 14.9  | 22.3  |





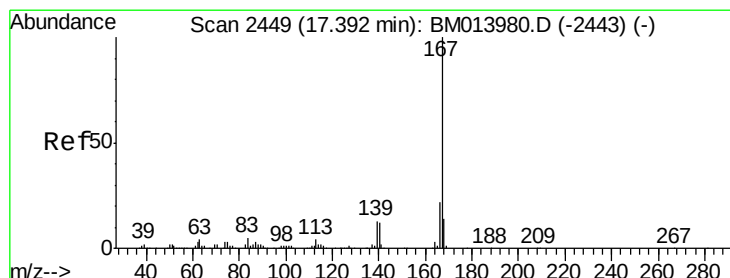
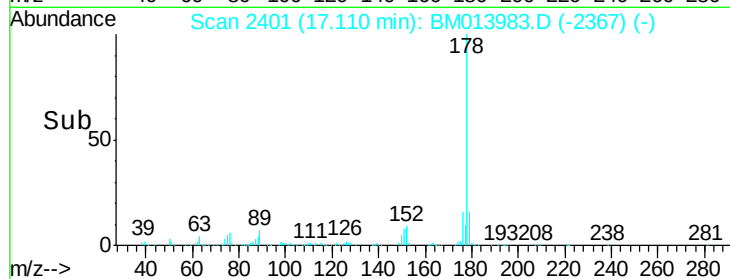
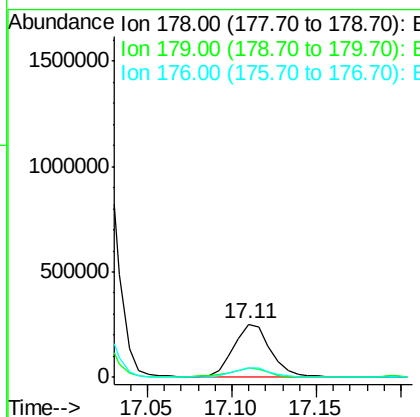
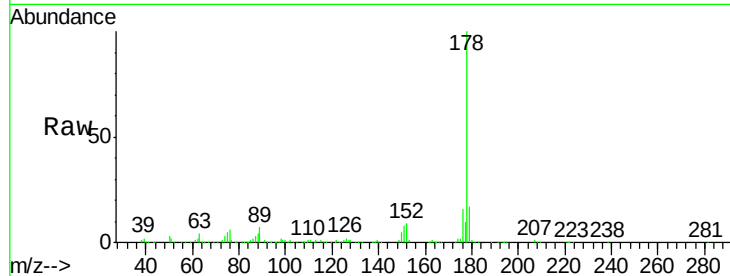
#71  
 Anthracene  
 Concen: 12.588 ng/ul  
 RT: 17.11 min Scan# 2401  
 Delta R.T. 0.00 min  
 Lab File: BM013983.D  
 Acq: 30 Jan 2018 06:16

Instrument :  
 BNA\_M  
 ClientSampled :  
 F6B35DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.6  | 11.7  | 17.5  |
| 176     | 16.4  | 14.6  | 21.8  |

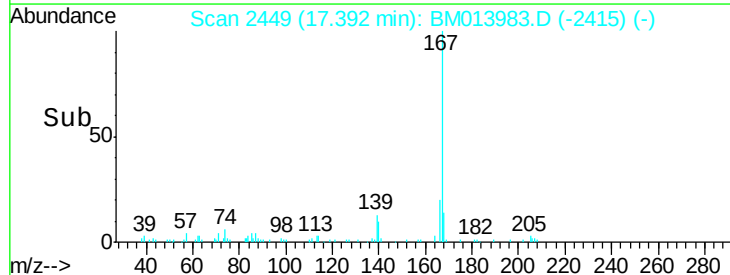
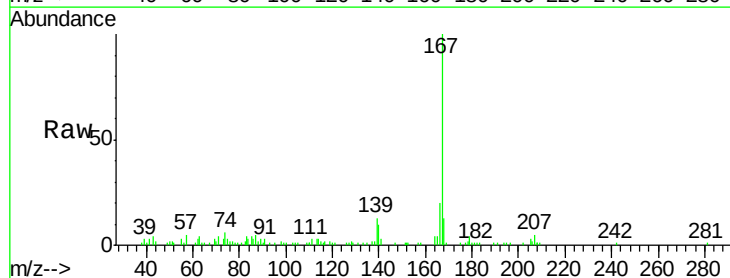
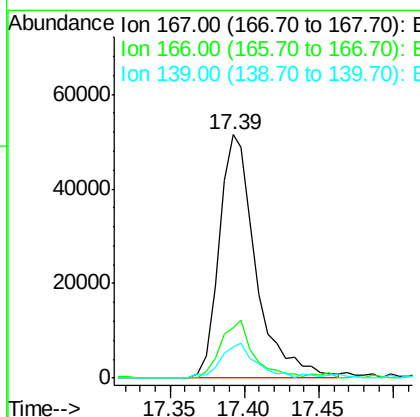
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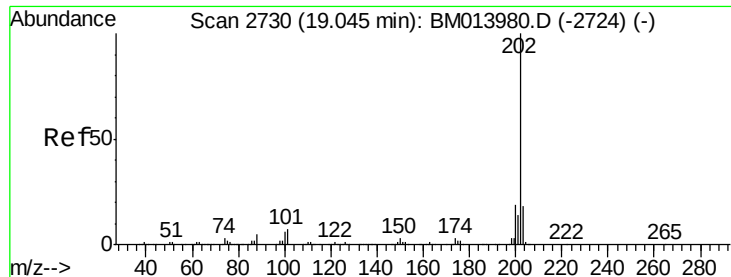
Sohil  
 1/30/2018 3:34:54 PM



#72  
 Carbazole  
 Concen: 3.596 ng/ul  
 RT: 17.39 min Scan# 2449  
 Delta R.T. 0.00 min  
 Lab File: BM013983.D  
 Acq: 30 Jan 2018 06:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.5  | 17.1  | 25.7  |
| 139     | 12.9  | 10.0  | 15.0  |





#74

Fluoranthene

Concen: 37.542 ng/ul

RT: 19.04 min Scan# 2730

Delta R.T. 0.00 min

Lab File: BM013983.D

Acq: 30 Jan 2018 06:16

Instrument :

BNA\_M

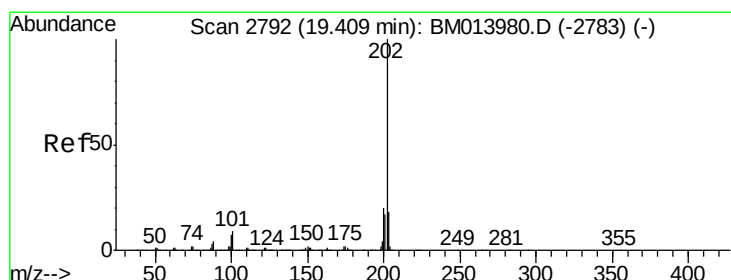
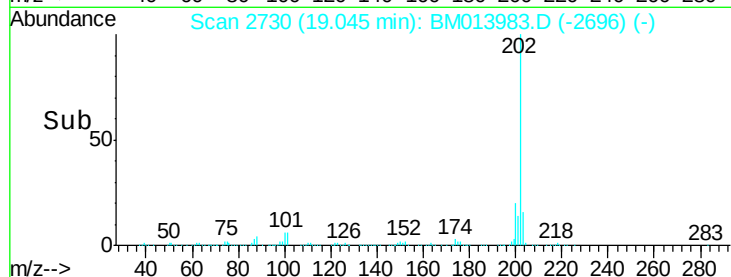
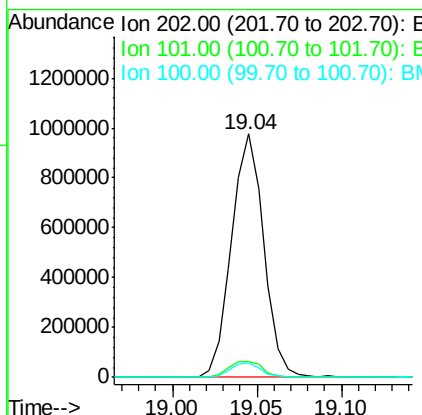
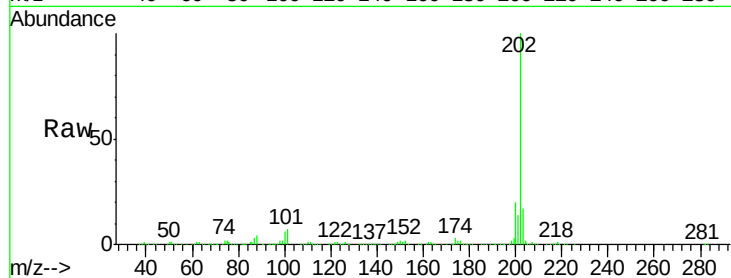
ClientSampleId :

F6B35DL

|           |       |       |         |
|-----------|-------|-------|---------|
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| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 6.6   | 4.6   | 7.0     |
| 100       | 5.8   | 3.4   | 5.2#    |

Manual Integrations  
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#77

Pyrene

Concen: 21.231 ng/ul

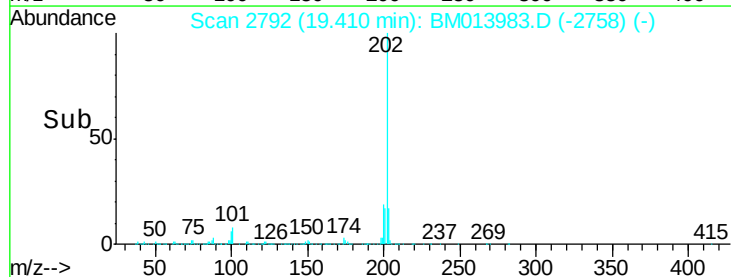
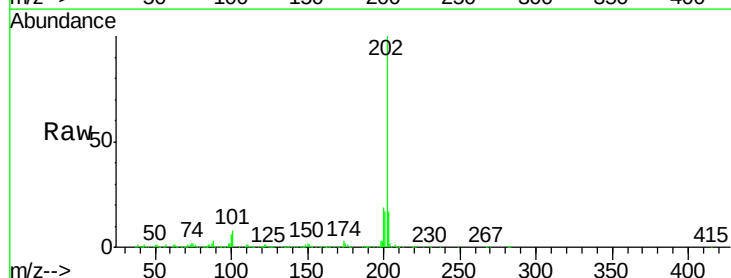
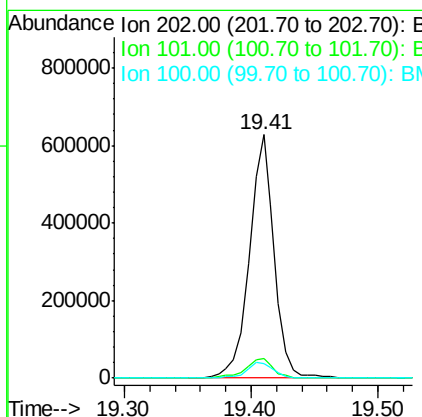
RT: 19.41 min Scan# 2792

Delta R.T. 0.00 min

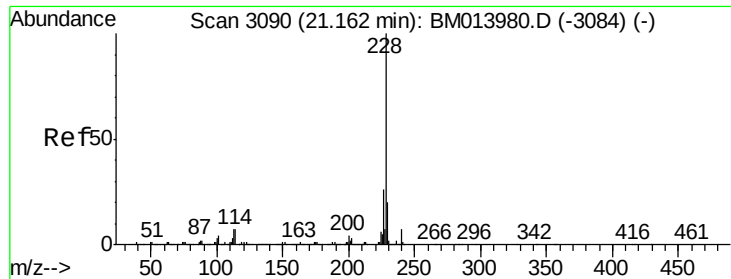
Lab File: BM013983.D

Acq: 30 Jan 2018 06:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 852263 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.8   | 5.1   | 7.7#   |
| 100       | 6.1   | 4.9   | 7.3    |







#80

Benzo(a)anthracene

Concen: 4.538 ng/ul

RT: 21.16 min Scan# 3090

Delta R.T. 0.00 min

Lab File: BM013983.D

Acq: 30 Jan 2018 06:16

Instrument :

BNA\_M

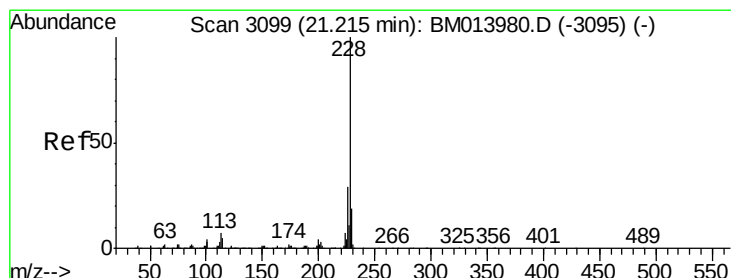
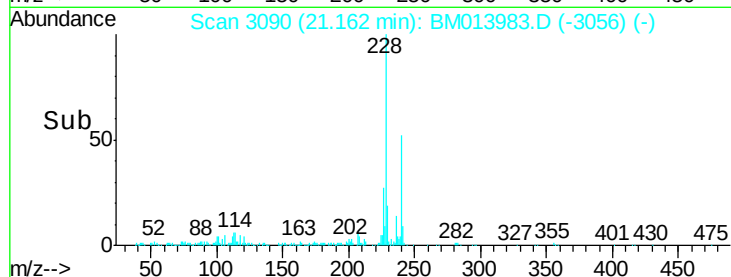
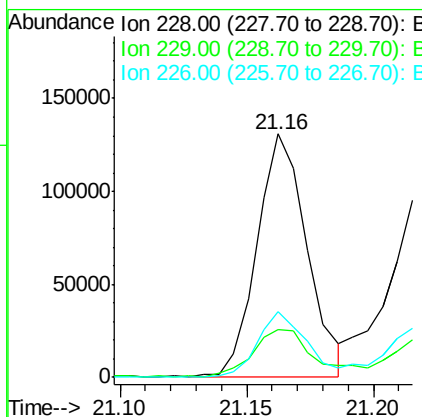
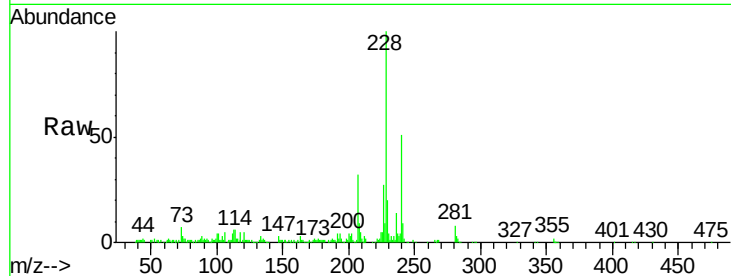
ClientSampleId :

F6B35DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 181051 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 19.7  | 15.4  | 23.0   |
| 226       | 26.8  | 21.4  | 32.0   |

Manual Integrations  
APPROVED

Sohil  
1/30/2018 3:34:54 PM



#82

Chrysene

Concen: 3.821 ng/ul

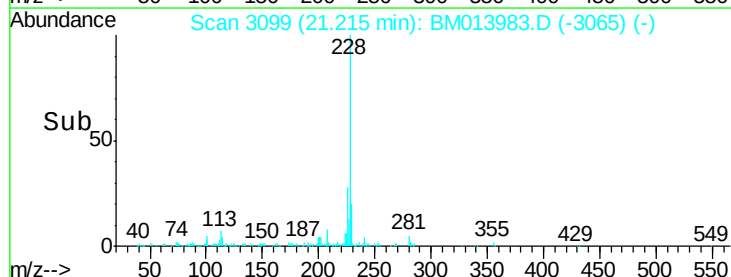
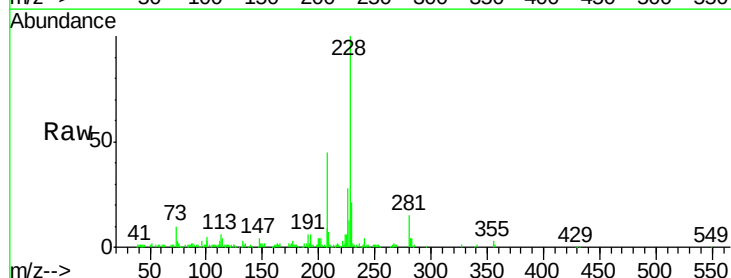
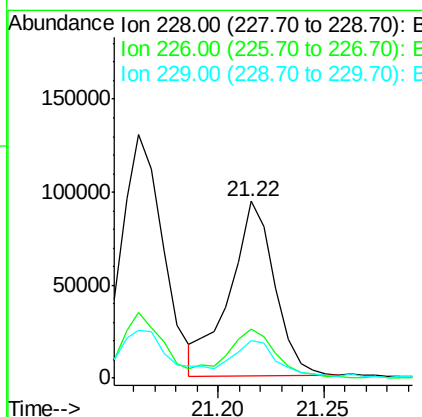
RT: 21.22 min Scan# 3099

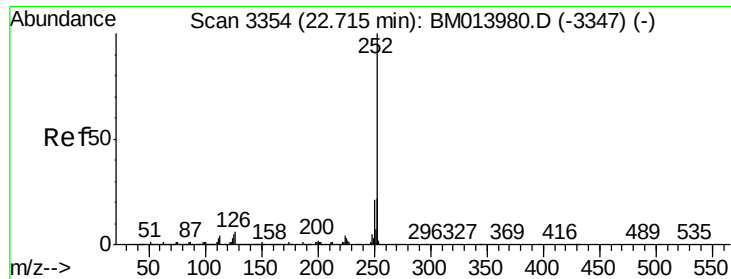
Delta R.T. 0.00 min

Lab File: BM013983.D

Acq: 30 Jan 2018 06:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 139846 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.8  | 23.4  | 35.2   |
| 229       | 21.3  | 15.5  | 23.3   |





#85

Benzo(b)fluoranthene

Concen: 2.185 ng/ul

RT: 22.72 min Scan# 3355

Delta R.T. 0.01 min

Lab File: BM013983.D

Acq: 30 Jan 2018 06:16

Instrument :

BNA\_M

ClientSampleId :

F6B35DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 85726 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.6  | 17.9  | 26.9  |
| 125       | 10.9  | 3.6   | 5.4#  |

Manual Integrations  
APPROVED

Sohil  
1/30/2018 3:34:54 PM

