

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN043019\  
 Data File : BN005384.D  
 Acq On : 30 Apr 2019 22:32  
 Operator : JU/SJ  
 Sample : K2481-17ME  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHXOME

Manual Integrations  
 APPROVED

Sohil  
 5/1/2019 12:05:52 PM

Quant Time: May 01 07:22:18 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Apr 25 03:19:34 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 331494   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 1432611  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 949535   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 2217442  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.20 | 240  | 2283975  | 20.00 | ng/ul | -0.02    |
| 85) Perylene-d12          | 23.40 | 264  | 2359868  | 20.00 | ng/ul | -0.04    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 37230   | 5.42  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 803262  | 30.85 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 489830  | 30.16 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 660257  | 33.14 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 594074  | 29.19 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 370305  | 42.00 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 412116  | 46.10 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 698705  | 34.10 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 942522  | 44.60 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 2382397 | 34.56 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 2890218 | 34.14 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.44 | 143 | 367765  | 33.79 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.23 | 176 | 2047453 | 35.39 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.36 | 200 | 373194  | 37.42 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.08 | 188 | 3344068 | 35.97 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.39 | 212 | 3977946 | 34.05 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.26 | 264 | 3832926 | 37.17 | ng/ul | -0.04 |

## Target Compounds

|                            |       |     |           |         | Ovalue    |
|----------------------------|-------|-----|-----------|---------|-----------|
| 28) Naphthalene            | 10.41 | 128 | 24098813m | 361.845 | ng/ul     |
| 34) 2-Methylnaphthalene    | 12.04 | 142 | 19277435  | 395.312 | ng/ul 96  |
| 40) 1,1'-Biphenyl          | 13.05 | 154 | 1646781   | 23.276  | ng/ul 98  |
| 44) Dimethylphthalate      | 13.69 | 163 | 487072    | 7.092   | ng/ul 100 |
| 47) Acenaphthylene         | 13.95 | 152 | 6765469   | 81.317  | ng/ul# 97 |
| 49) Acenaphthene           | 14.29 | 153 | 576902    | 10.157  | ng/ul 99  |
| 53) Dibenzofuran           | 14.63 | 168 | 820362    | 10.032  | ng/ul 95  |
| 58) Fluorene               | 15.29 | 166 | 3454284   | 54.132  | ng/ul 98  |
| 69) Phenanthrene           | 17.03 | 178 | 13850443  | 128.253 | ng/ul 93  |
| 71) Anthracene             | 17.12 | 178 | 3173494   | 28.847  | ng/ul 99  |
| 76) Fluoranthene           | 19.05 | 202 | 3107277   | 25.941  | ng/ul 98  |
| 79) Pyrene                 | 19.42 | 202 | 4881437   | 33.194  | ng/ul 97  |
| 82) Benzo(a)anthracene     | 21.19 | 228 | 1932847m  | 13.603  | ng/ul     |
| 84) Chrysene               | 21.24 | 228 | 1584773   | 12.018  | ng/ul 98  |
| 87) Benzo(b)fluoranthene   | 22.74 | 252 | 862644    | 6.503   | ng/ul 96  |
| 88) Benzo(k)fluoranthene   | 22.78 | 252 | 284055m   | 2.242   | ng/ul     |
| 90) Benzo(a)pyrene         | 23.30 | 252 | 991535    | 7.952   | ng/ul 98  |
| 91) Indeno(1,2,3-cd)pyrene | 25.57 | 276 | 273520    | 1.984   | ng/ul 95  |
| 93) Benzo(g,h,i)perylene   | 26.23 | 276 | 192795    | 1.691   | ng/ul 97  |

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

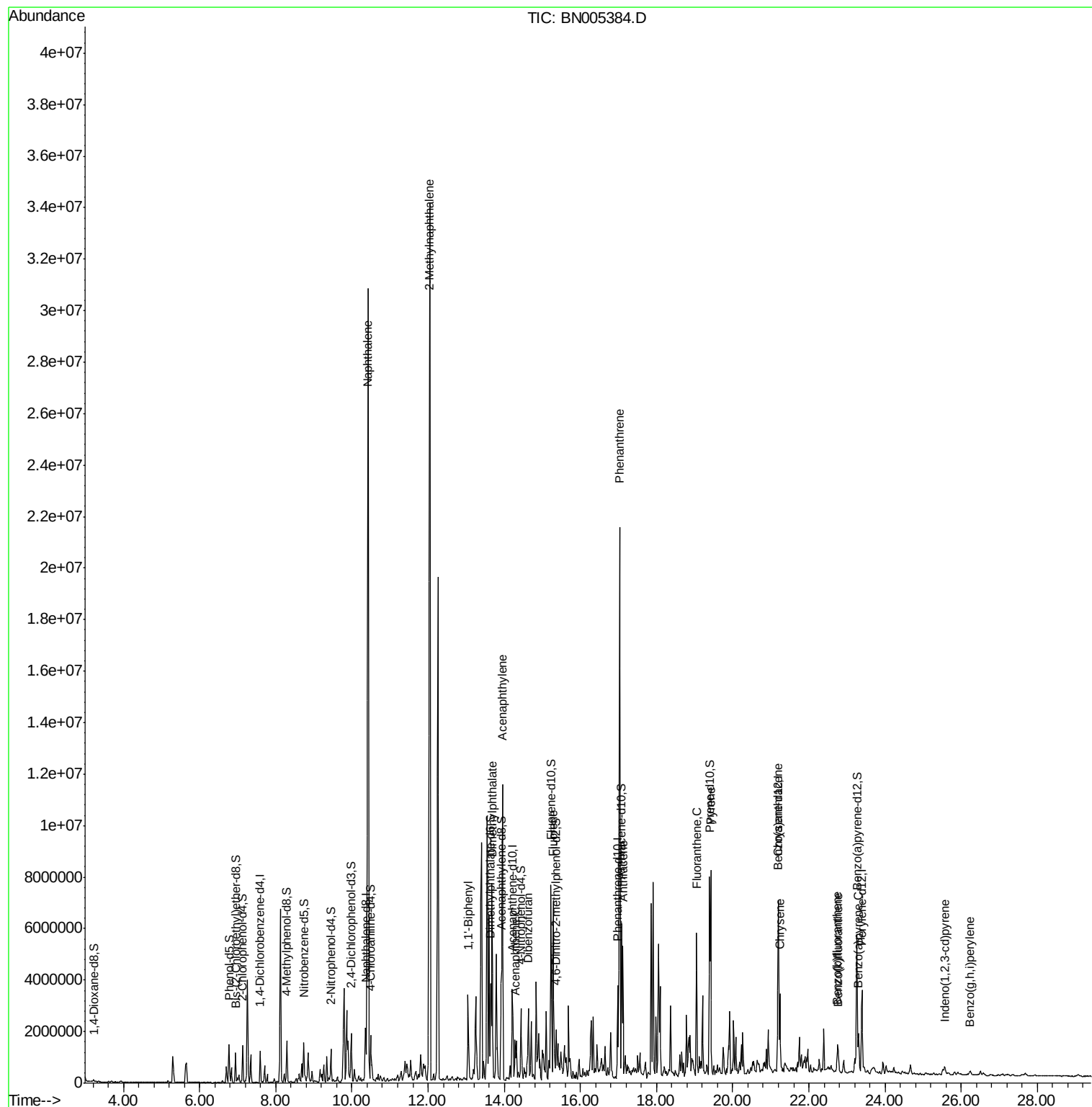
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN043019\  
Data File : BN005384.D  
Acq On : 30 Apr 2019 22:32  
Operator : JU/SJ  
Sample : K2481-17ME  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

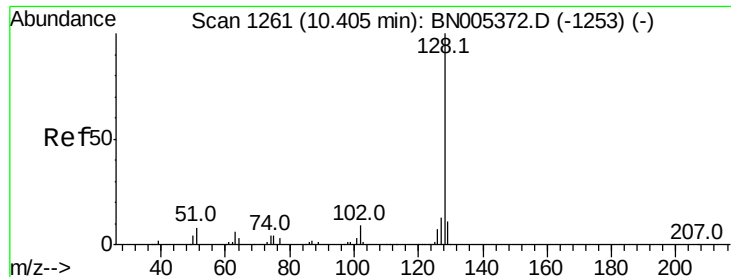
Instrument :  
BNA\_N  
ClientSampleId :  
GAHXOME

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5/1/2019 12:05:52 PM

Quant Time: May 01 07:22:18 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Apr 25 03:19:34 2019  
Response via : Initial Calibration





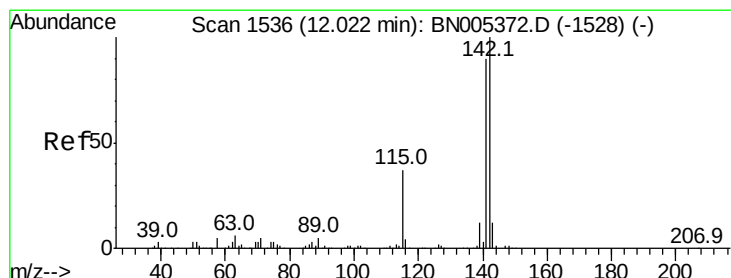
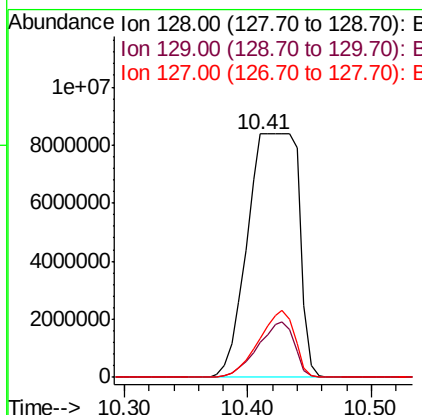
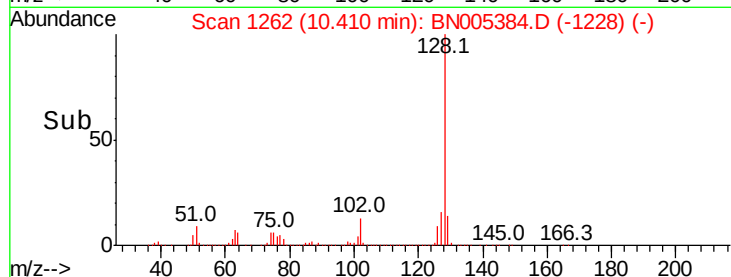
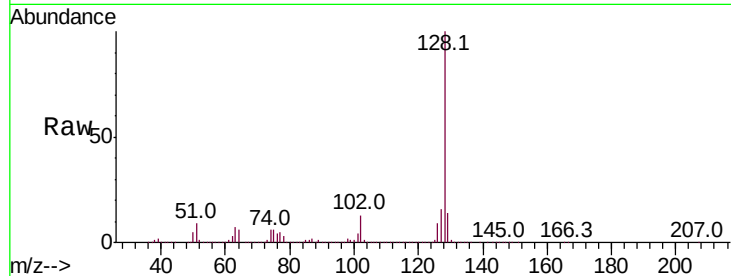
#28  
Naphthalene  
Concen: 361.845 ng/ul m  
RT: 10.41 min Scan# 1262  
Delta R.T. 0.00 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

Instrument :  
BNA\_N  
ClientSampleId :  
GAHX0ME

Tot Ion:128 Resp:24098813  
Ion Ratio Lower Upper  
128 100  
129 14.2 9.2 13.8#  
127 16.2 10.7 16.1#

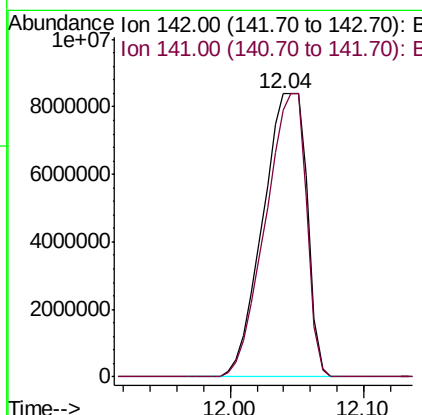
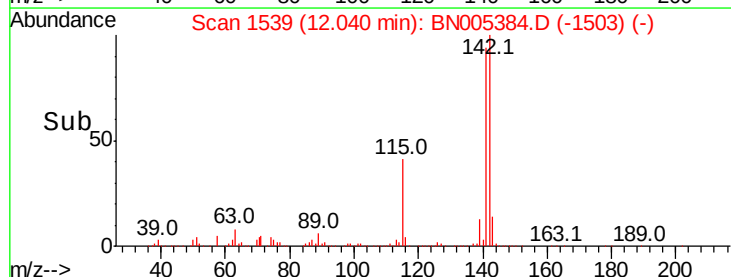
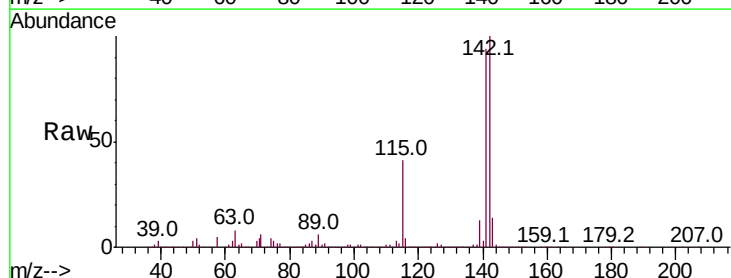
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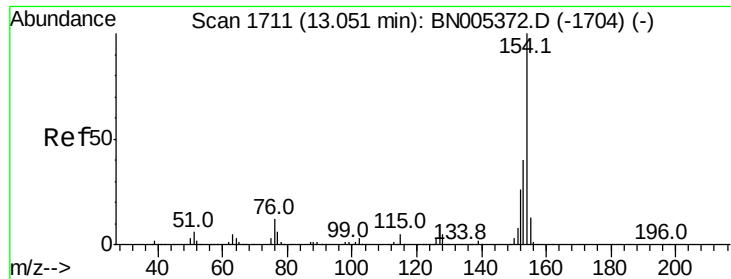
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#34  
2-Methylnaphthalene  
Concen: 395.312 ng/ul  
RT: 12.04 min Scan# 1539  
Delta R.T. 0.01 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

Tgt Ion:142 Resp:19277435  
Ion Ratio Lower Upper  
142 100  
141 94.0 72.0 108.0





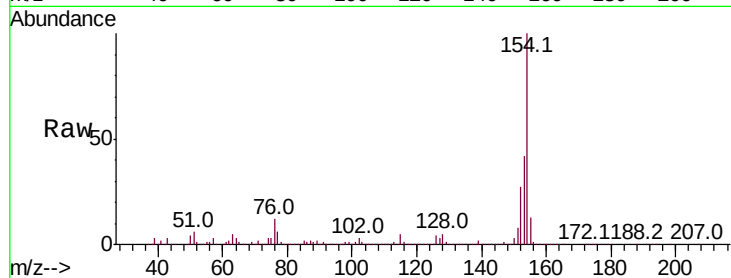
#40  
1,1'-Biphenyl  
Concen: 23.276 ng/ul  
RT: 13.05 min Scan# 1711  
Delta R.T. -0.01 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

Instrument :  
BNA\_N  
ClientSampled :  
GAHX0ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.5  | 32.6  | 49.0  |
| 76      | 11.5  | 10.4  | 15.6  |

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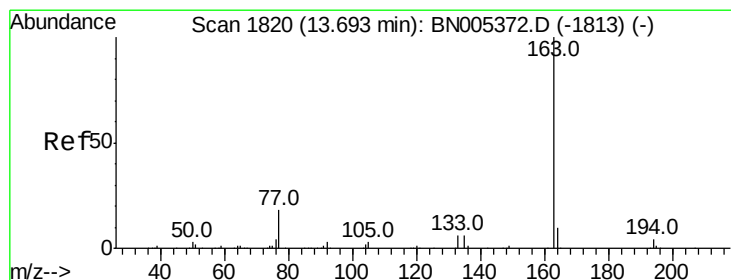
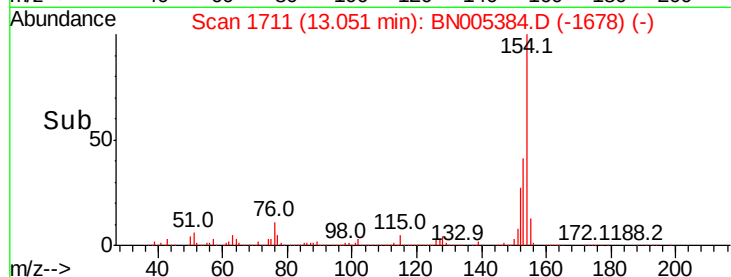
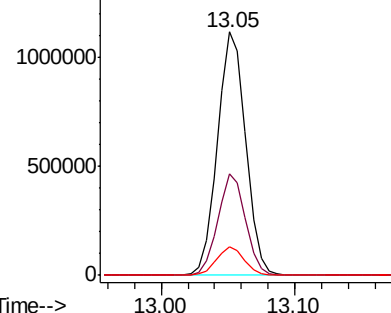


Abundance

Ion 154.00 (153.70 to 154.70): E

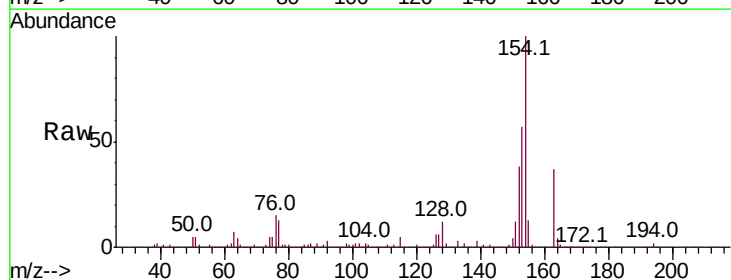
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNO



#44  
Dimethylphthalate  
Concen: 7.092 ng/ul  
RT: 13.69 min Scan# 1820  
Delta R.T. -0.01 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.4   | 5.0   |
| 164     | 10.2  | 8.1   | 12.1  |

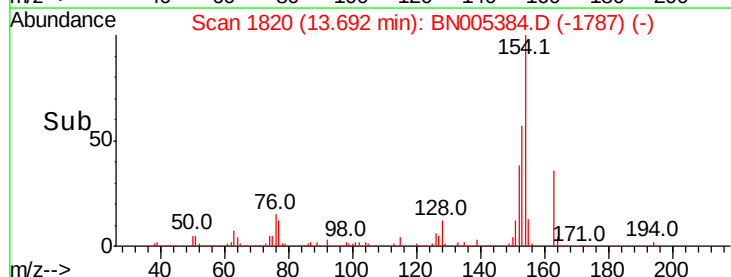
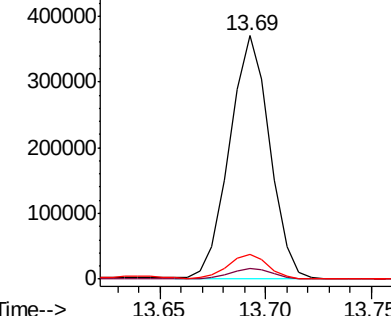


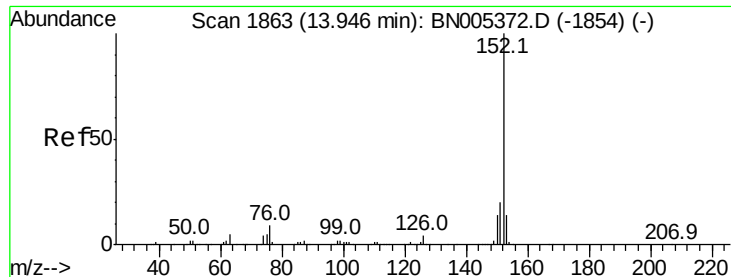
Abundance

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





#47

Acenaphthylene

Concen: 81.317 ng/ul

RT: 13.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA\_N

ClientSampleId :

GAHX0ME

Tot Ion:152 Resp: 6765469

Ion Ratio Lower Upper

152 100

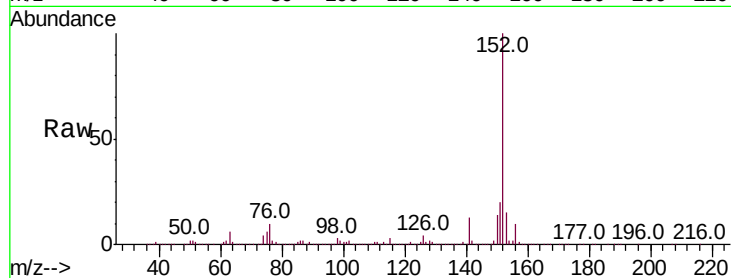
151 20.4 15.8 23.8

153 15.1 9.8 14.8#

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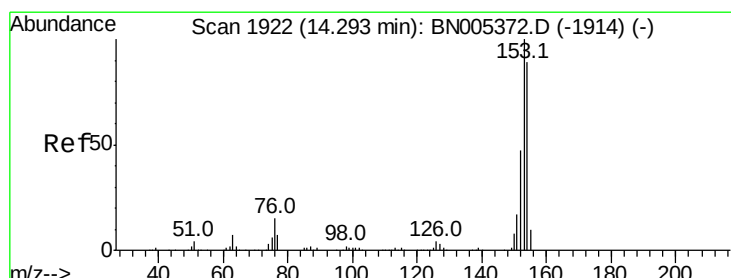
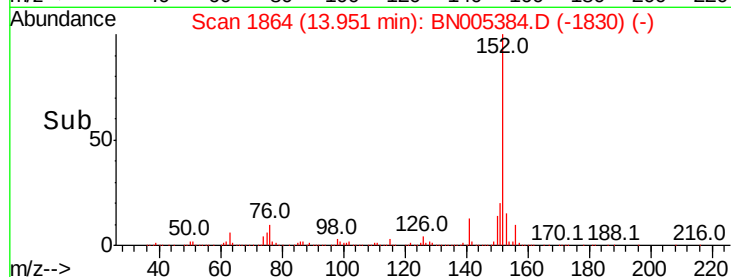
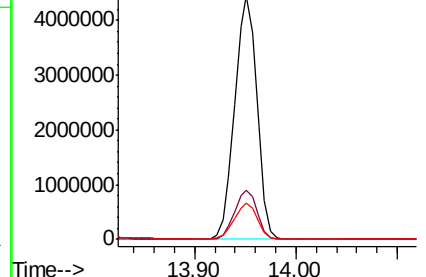
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 10.157 ng/ul

RT: 14.29 min Scan# 1922

Delta R.T. -0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

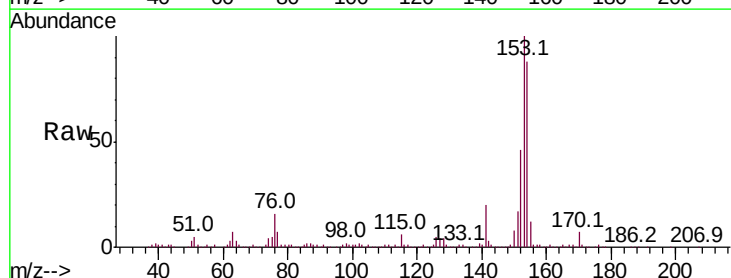
Tgt Ion:153 Resp: 576902

Ion Ratio Lower Upper

153 100

152 46.1 37.4 56.0

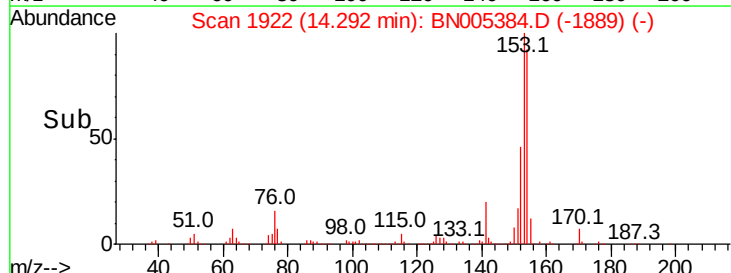
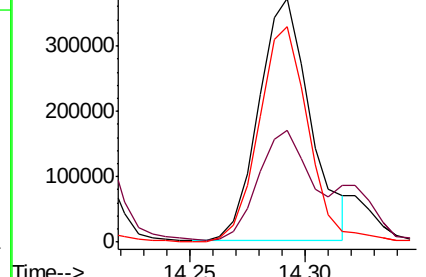
154 88.3 71.2 106.8

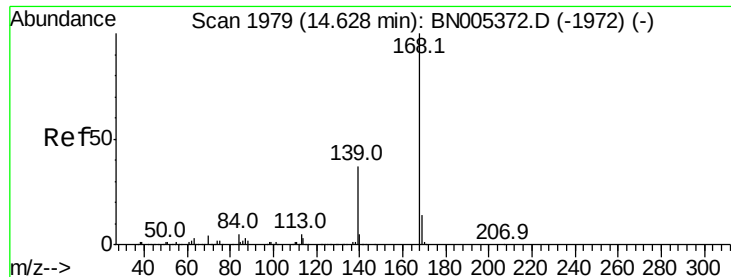


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





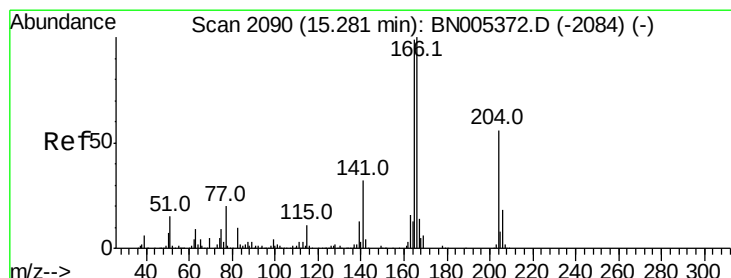
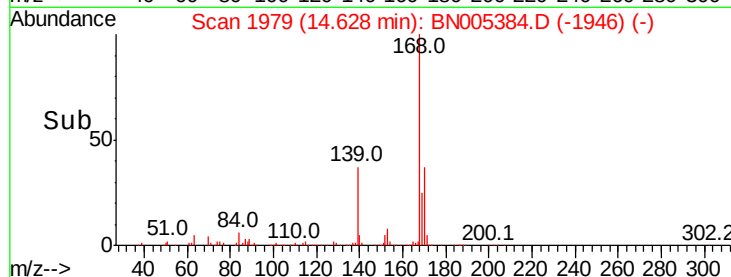
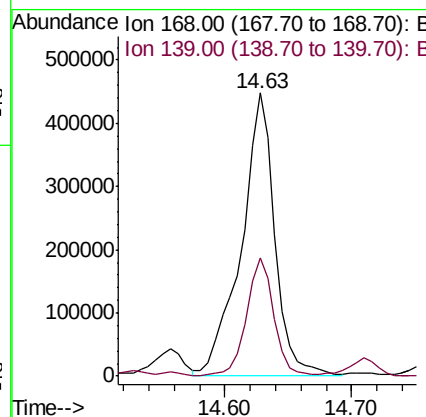
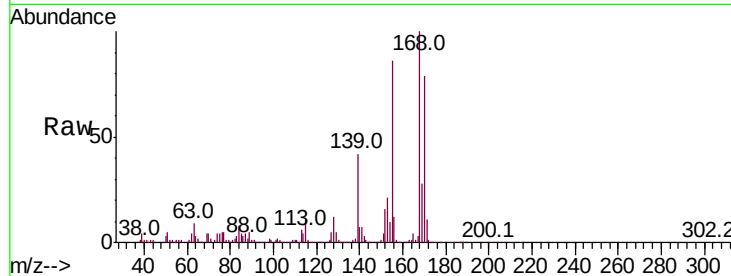
#53  
Dibenzenofuran  
Concen: 10.032 ng/ul  
RT: 14.63 min Scan# 1979  
Delta R.T. -0.01 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

Instrument :  
BNA\_N  
ClientSampled :  
GAHX0ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 41.9  | 30.9  | 46.3  |

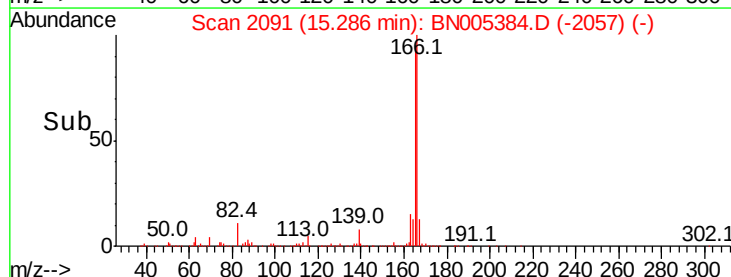
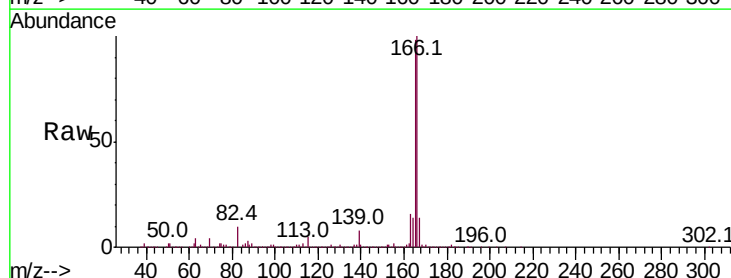
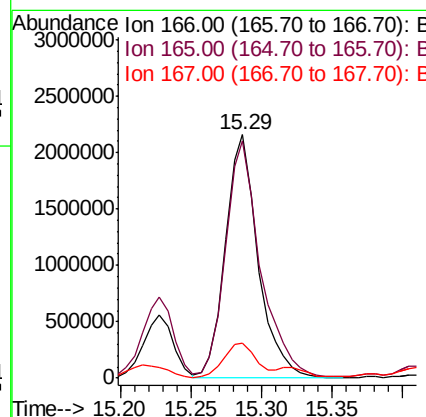
Manual Integrations  
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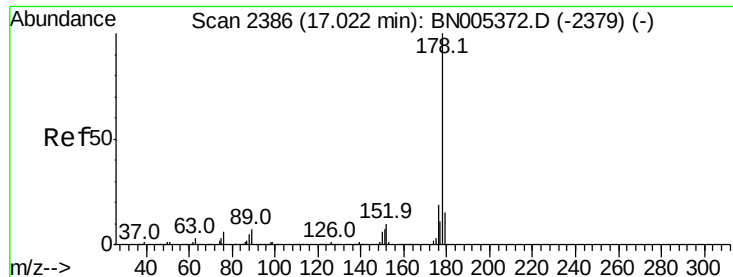
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5/1/2019 12:05:52 PM



#58  
Fluorene  
Concen: 54.132 ng/ul  
RT: 15.29 min Scan# 2091  
Delta R.T. 0.00 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.6  | 80.0  | 120.0 |
| 167     | 14.2  | 10.7  | 16.1  |





#69

Phenanthrene

Concen: 128.253 ng/ul

RT: 17.03 min Scan# 2388

Delta R.T. 0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA\_N

ClientSampleId :

GAHX0ME

Tot Ion:178 Resp:13850443

Ion Ratio Lower Upper

178 100

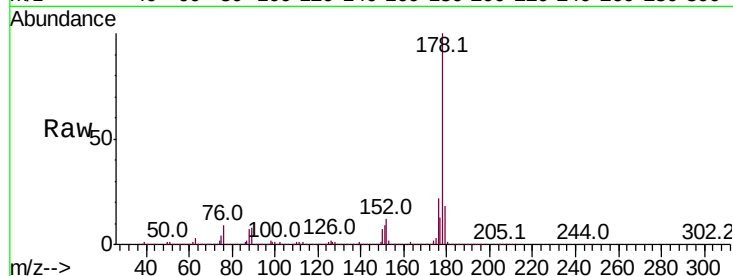
179 17.9 12.2 18.4

176 22.0 15.1 22.7

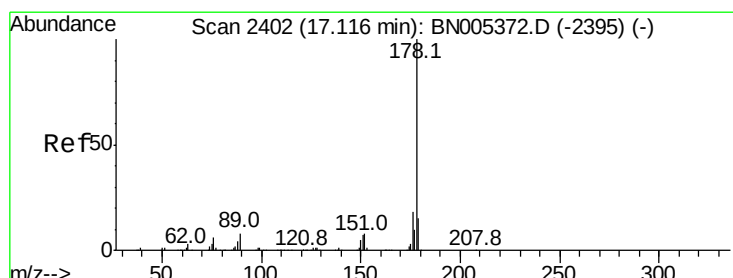
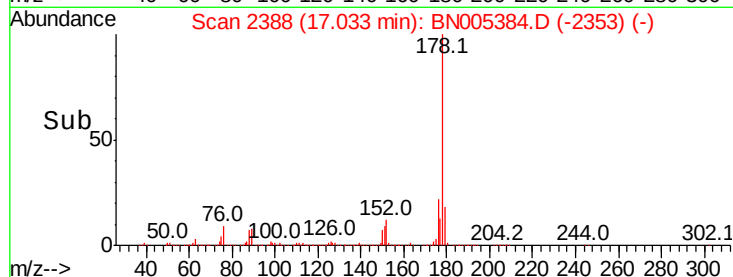
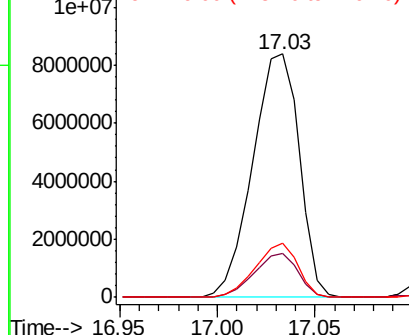
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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 28.847 ng/ul

RT: 17.12 min Scan# 2402

Delta R.T. 0.00 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

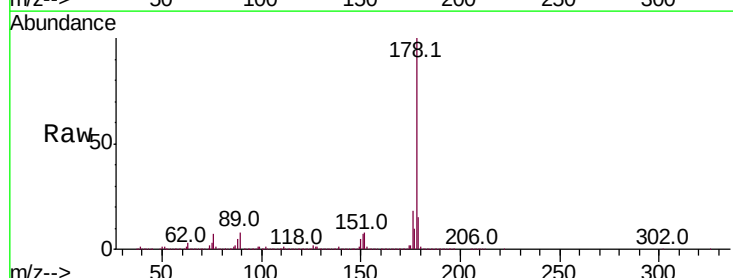
Tgt Ion:178 Resp: 3173494

Ion Ratio Lower Upper

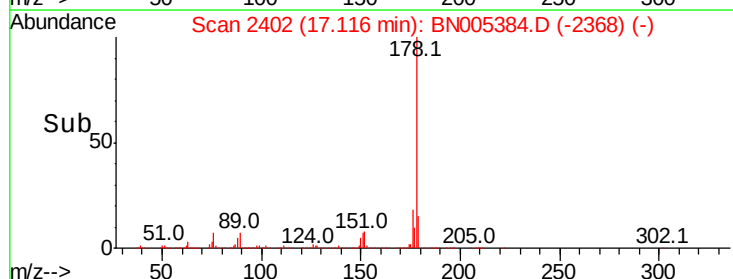
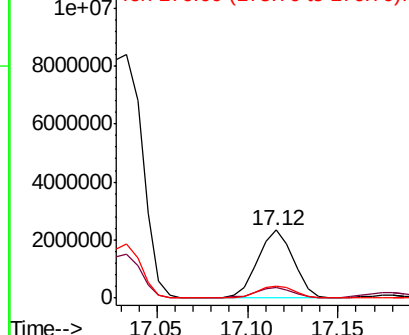
178 100

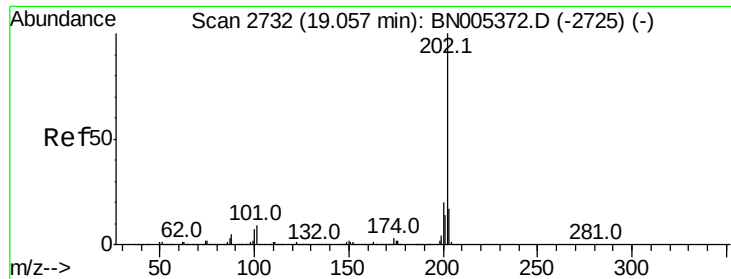
179 15.1 12.3 18.5

176 18.1 15.1 22.7



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





#76

Fluoranthene

Concen: 25.941 ng/ul

RT: 19.05 min Scan# 2731

Delta R.T. -0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA\_N

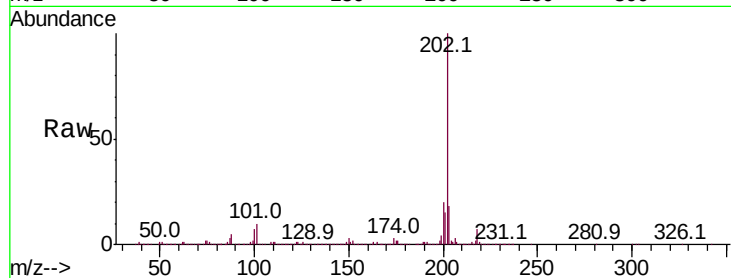
ClientSampleId :

GAHX0ME

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 3107277 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 9.9   | 8.6   | 12.8    |
| 100      | 7.0   | 6.3   | 9.5     |

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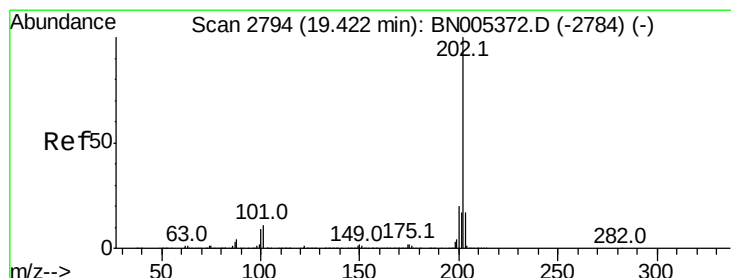
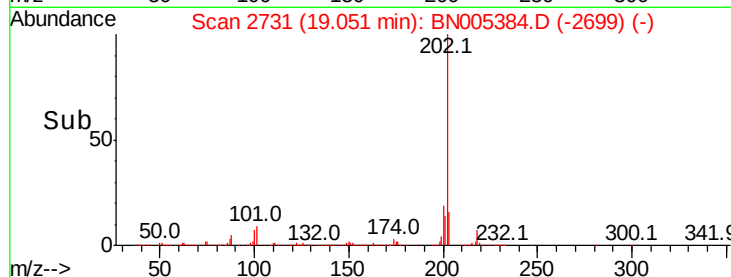
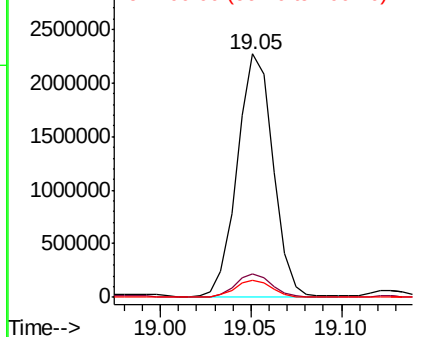


Abundance

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



#79

Pyrene

Concen: 33.194 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

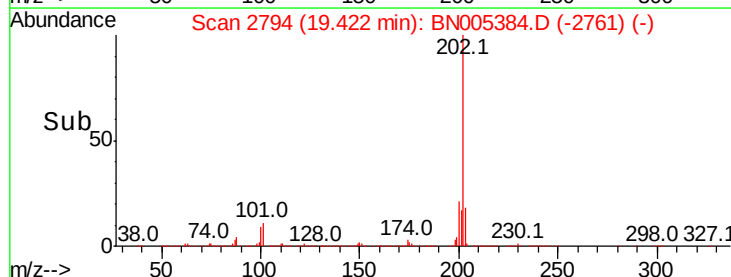
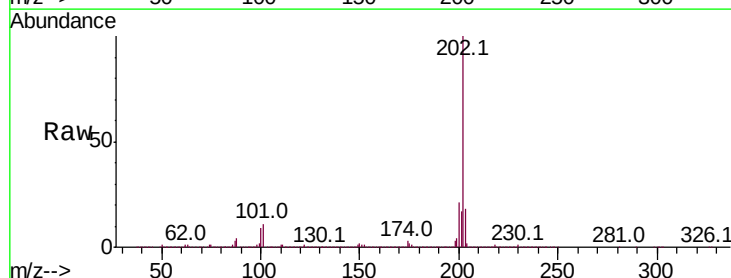
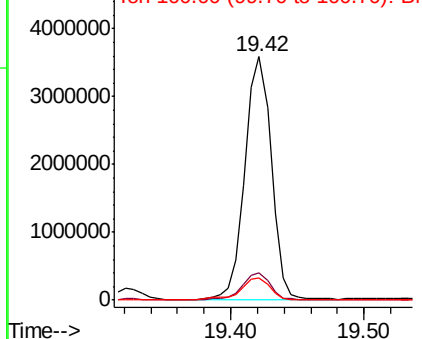
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 202   | Resp: | 4881437 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 11.2  | 10.3  | 15.5    |
| 100      | 9.1   | 7.9   | 11.9    |

Abundance

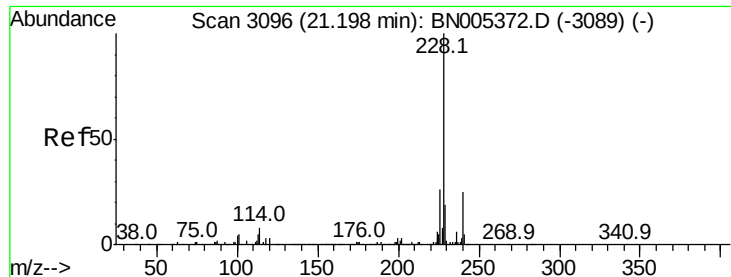
Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B







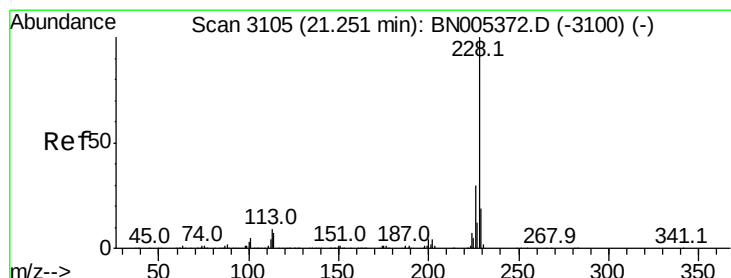
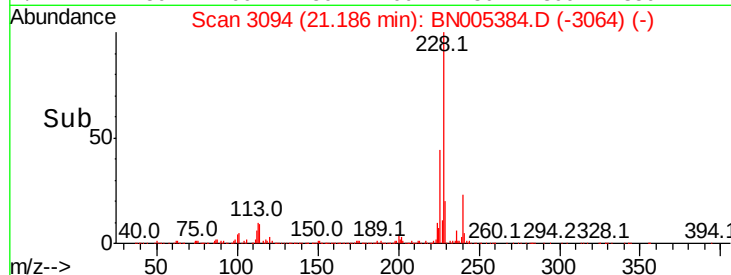
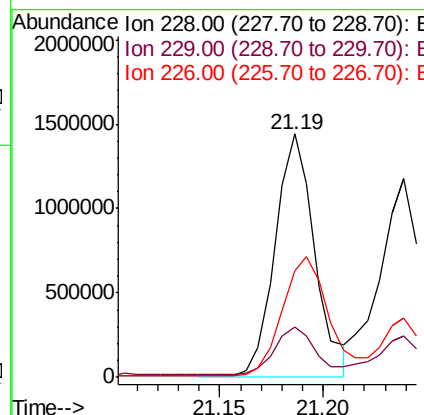
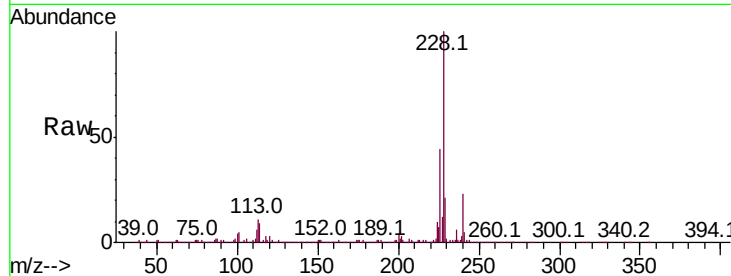
#82  
Benzo(a)anthracene  
Concen: 13.603 ng/ul m  
RT: 21.19 min Scan# 3094  
Delta R.T. -0.02 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

Instrument :  
BNA\_N  
ClientSampleId :  
GAHX0ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.7  | 15.8  | 23.6  |
| 226     | 44.0  | 21.4  | 32.2  |

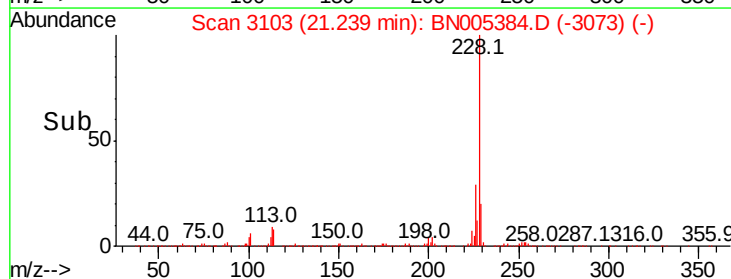
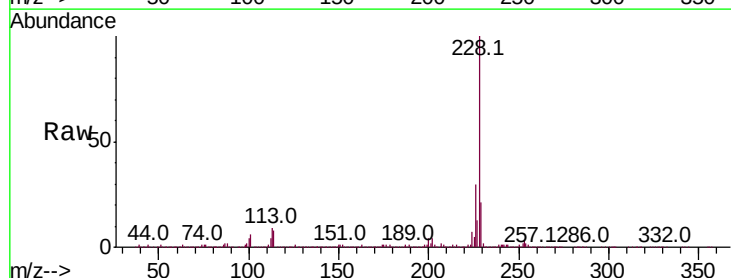
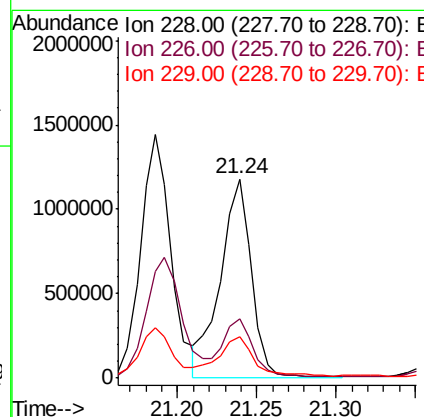
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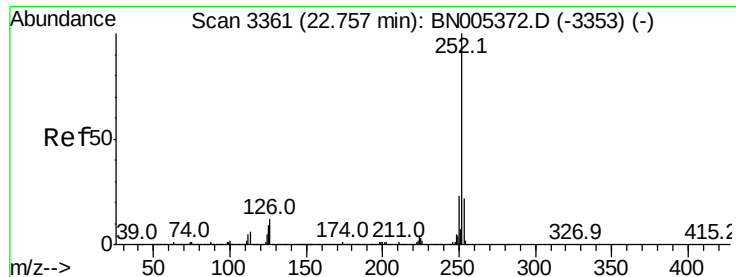
Sohil  
5/1/2019 12:05:52 PM



#84  
Chrysene  
Concen: 12.018 ng/ul  
RT: 21.24 min Scan# 3103  
Delta R.T. -0.02 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.0  | 36.0  |
| 229     | 20.7  | 15.4  | 23.0  |





#87

Benzo(b)fluoranthene

Concen: 6.503 ng/ul

RT: 22.74 min Scan# 3359

Delta R.T. -0.04 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA\_N

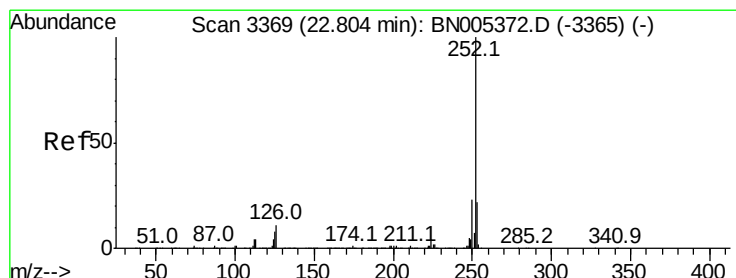
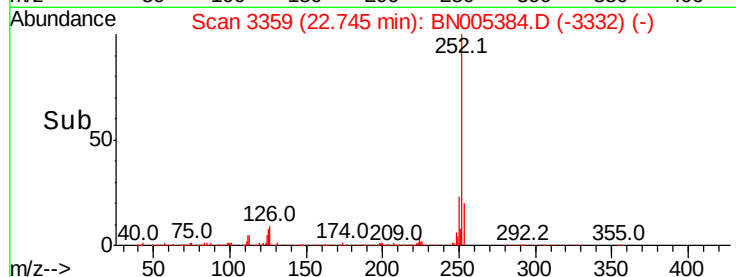
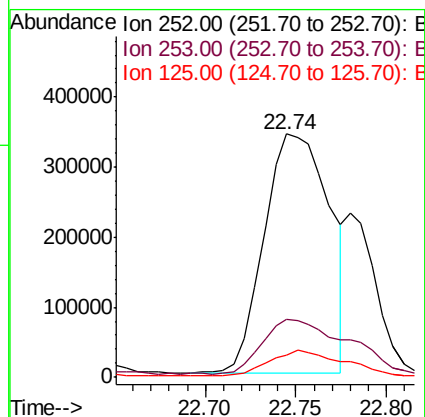
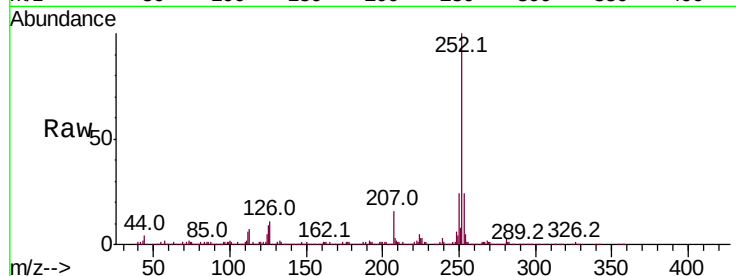
ClientSampleId :

GAHX0ME

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 862644 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 17.7  | 26.5   |
| 125       | 9.2   | 8.4   | 12.6   |

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#88

Benzo(k)fluoranthene

Concen: 2.242 ng/ul m

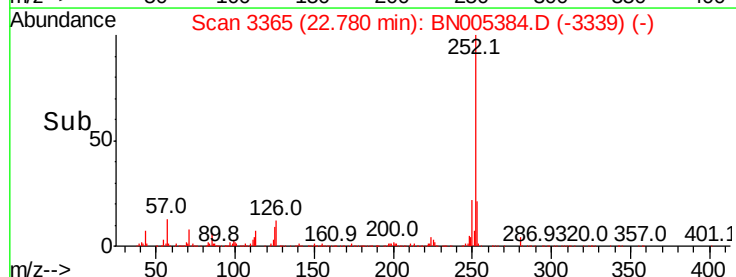
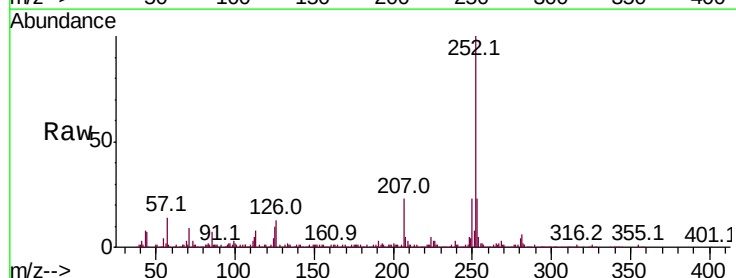
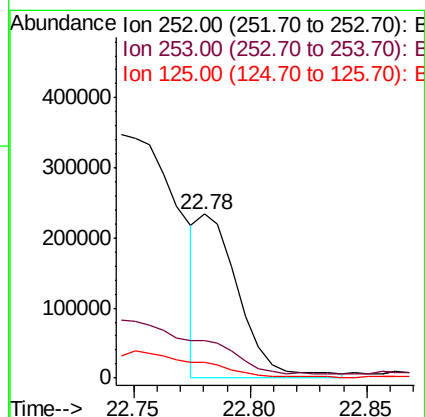
RT: 22.78 min Scan# 3365

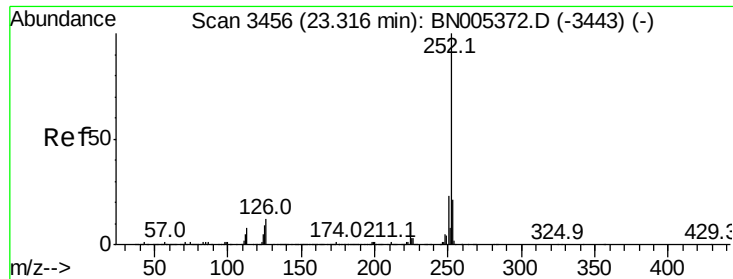
Delta R.T. -0.05 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 284055 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.4  | 26.0   |
| 125       | 9.7   | 7.5   | 11.3   |





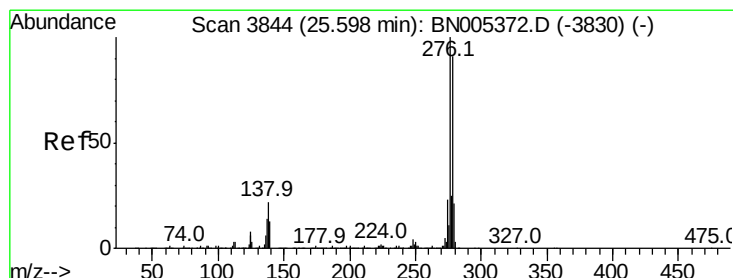
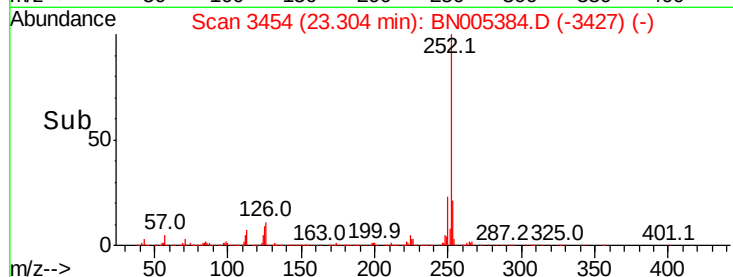
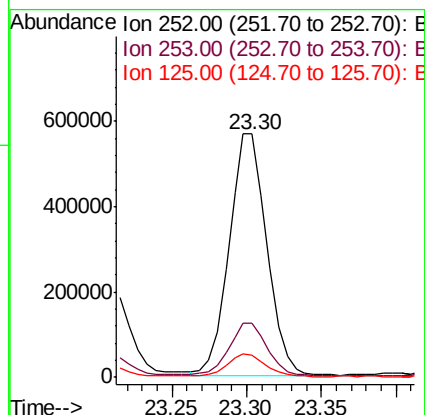
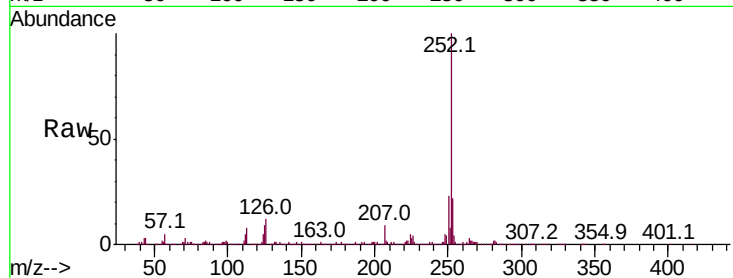
#90  
Benzo(a)pyrene  
Concen: 7.952 ng/ul  
RT: 23.30 min Scan# 3454  
Delta R.T. -0.04 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

Instrument :  
BNA\_N  
ClientSampleId :  
GAHX0ME

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 991535 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.2  | 17.3  | 25.9   |
| 125       | 9.2   | 8.6   | 13.0   |

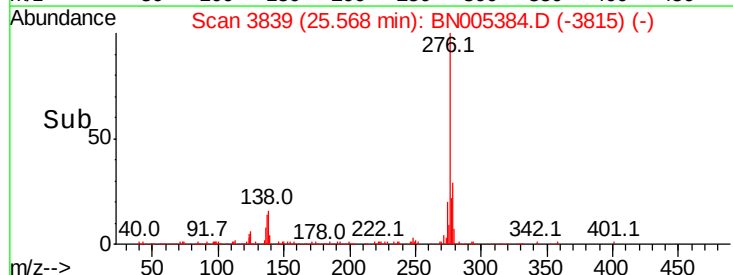
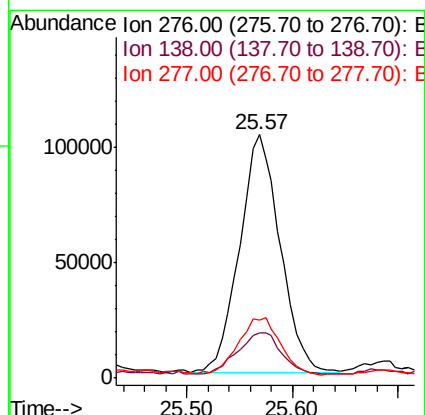
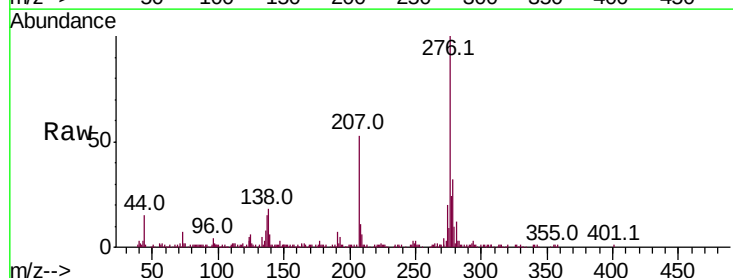
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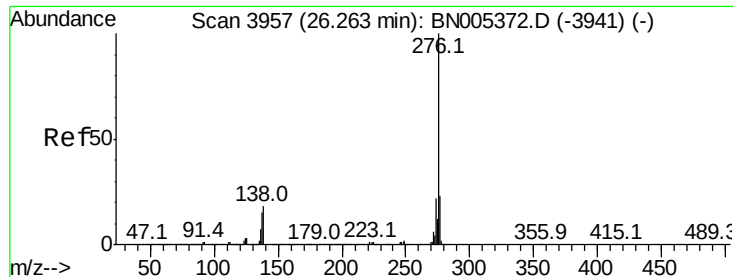
Sohil  
5/1/2019 12:05:52 PM



#91  
Indeno(1,2,3-cd)pyrene  
Concen: 1.984 ng/ul  
RT: 25.57 min Scan# 3839  
Delta R.T. -0.06 min  
Lab File: BN005384.D  
Acq: 30 Apr 2019 22:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 273520 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.5  | 17.9  | 26.9   |
| 277       | 23.7  | 19.7  | 29.5   |





#93

Benzo(a,h,i)perylene

Concen: 1.691 ng/ul

RT: 26.23 min Scan# 3952

Delta R.T. -0.06 min

Lab File: BN005384.D

Acq: 30 Apr 2019 22:32

Instrument :

BNA\_N

ClientSampleId :

GAHX0ME

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 192795 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 19.9  | 16.7  | 25.1   |
| 277       | 24.9  | 18.2  | 27.2   |

Manual Integrations  
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5/1/2019 12:05:52 PM

