

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\  
 Data File : BN005543.D  
 Acq On : 08 May 2019 21:43  
 Operator : JU/SJ  
 Sample : K2603-08ME  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ60ME

Manual Integrations  
 APPROVED

Sohil  
 5/9/2019 2:35:27 PM

Quant Time: May 09 03:20:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 07 05:36:07 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 310277   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.35 | 136  | 1345618  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.22 | 164  | 839541   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 1986506  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 1651447  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.41 | 264  | 1557291  | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.21  | 96  | 28195   | 4.39  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.77  | 99  | 610177  | 25.04 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 388814  | 25.58 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 525916  | 28.20 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 514401  | 27.00 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 294151  | 35.52 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 329660  | 39.26 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 552908  | 28.73 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 681467  | 34.33 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.64 | 166 | 1978802 | 32.47 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 2251916 | 30.09 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.45 | 143 | 254751  | 26.47 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.22 | 176 | 1662318 | 32.50 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 172042  | 19.26 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.08 | 188 | 2556020 | 30.69 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.39 | 212 | 2696892 | 31.92 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 1992712 | 29.28 | ng/ul | -0.01 |

## Target Compounds

|                            |       |     |           |         | Ovalue    |
|----------------------------|-------|-----|-----------|---------|-----------|
| 28) Naphthalene            | 10.41 | 128 | 21102077m | 337.333 | ng/ul     |
| 34) 2-Methylnaphthalene    | 12.03 | 142 | 6275302   | 137.004 | ng/ul 99  |
| 40) 1,1'-Biphenyl          | 13.05 | 154 | 1345044   | 21.502  | ng/ul 98  |
| 44) Dimethylphthalate      | 13.69 | 163 | 300547    | 4.949   | ng/ul 99  |
| 47) Acenaphthylene         | 13.95 | 152 | 5367975   | 72.973  | ng/ul 98  |
| 49) Acenaphthene           | 14.29 | 153 | 522247    | 10.399  | ng/ul 99  |
| 53) Dibenzofuran           | 14.62 | 168 | 601486    | 8.319   | ng/ul 99  |
| 58) Fluorene               | 15.28 | 166 | 3043630   | 53.946  | ng/ul 98  |
| 69) Phenanthrene           | 17.03 | 178 | 13009422  | 134.470 | ng/ul 97  |
| 71) Anthracene             | 17.12 | 178 | 3333803   | 33.827  | ng/ul 99  |
| 74) Carbazole              | 17.39 | 167 | 219116    | 2.588   | ng/ul 96  |
| 76) Fluoranthene           | 19.06 | 202 | 6012512   | 56.030  | ng/ul 97  |
| 79) Pyrene                 | 19.43 | 202 | 7617281   | 71.637  | ng/ul# 94 |
| 82) Benzo(a)anthracene     | 21.19 | 228 | 2616542m  | 25.468  | ng/ul     |
| 84) Chrysene               | 21.25 | 228 | 2190861   | 22.977  | ng/ul 99  |
| 87) Benzo(b)fluoranthene   | 22.76 | 252 | 1431351m  | 16.351  | ng/ul     |
| 88) Benzo(k)fluoranthene   | 22.78 | 252 | 620373m   | 7.420   | ng/ul     |
| 90) Benzo(a)pyrene         | 23.32 | 252 | 1589391   | 19.316  | ng/ul 98  |
| 91) Indeno(1,2,3-cd)pyrene | 25.59 | 276 | 619303    | 6.808   | ng/ul# 93 |
| 92) Dibenz(a,h)anthracene  | 25.60 | 278 | 172997m   | 2.241   | ng/ul     |
| 93) Benzo(a,h,i)perylene   | 26.26 | 276 | 557325    | 7.409   | ng/ul 95  |

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Sample : K2603-08ME  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ60ME

Manual Integrations  
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Quant Time: May 09 03:20:50 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

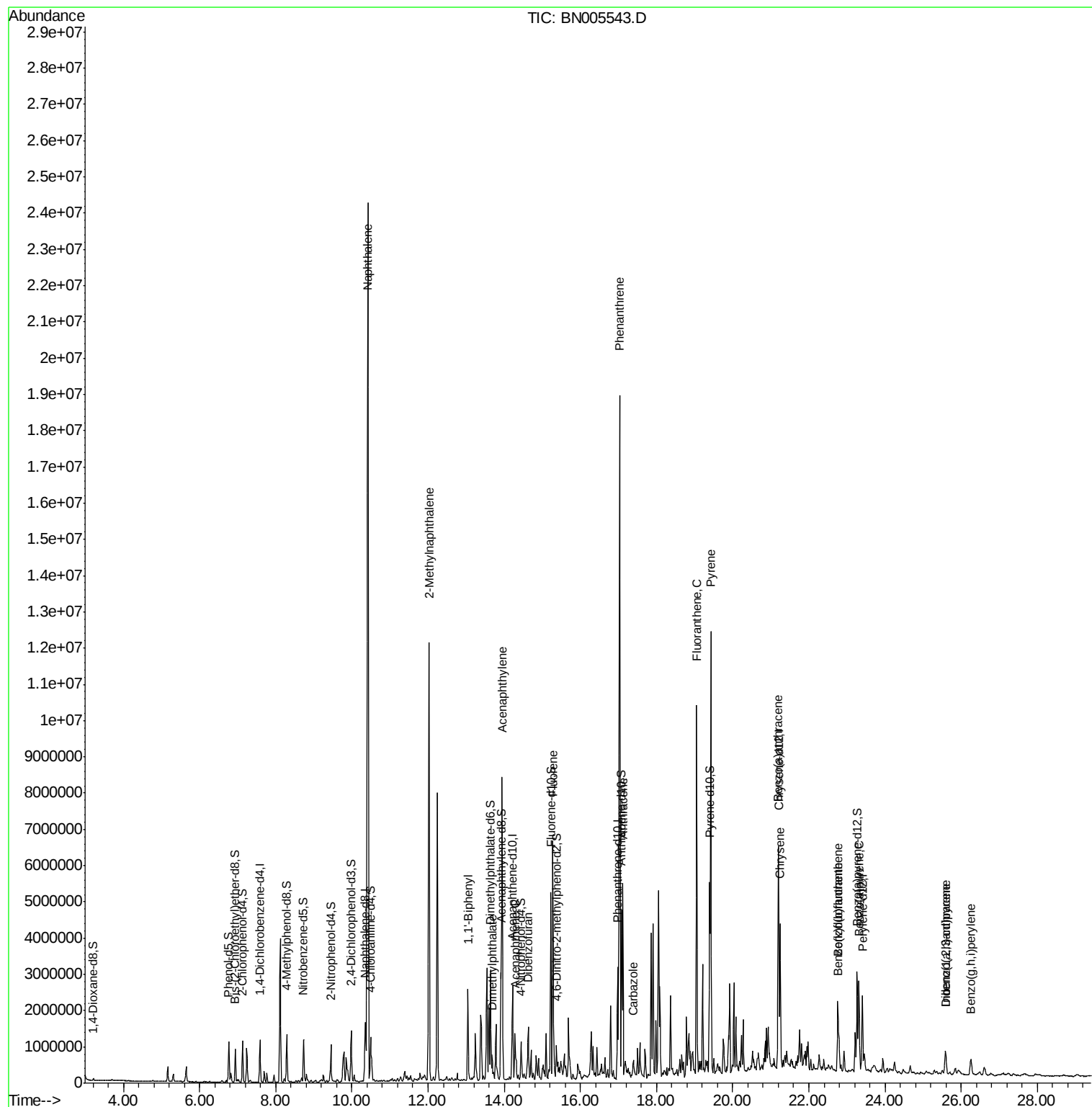
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\  
Data File : BN005543.D  
Acq On : 08 May 2019 21:43  
Operator : JU/SJ  
Sample : K2603-08ME  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

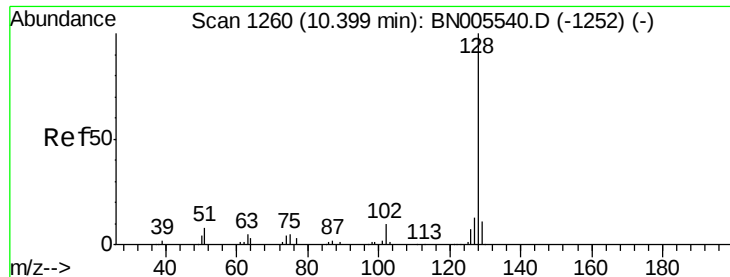
Instrument :  
BNA\_N  
ClientSampleId :  
GAJ60ME

Manual Integrations  
APPROVED

Sohil  
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Quant Time: May 09 03:20:50 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue May 07 05:36:07 2019  
Response via : Initial Calibration





#28

Naphthalene

Concen: 337.333 ng/ul m

RT: 10.41 min Scan# 1262

Delta R.T. 0.01 min

Lab File: BN005543.D

Acq: 08 May 2019 21:43

Instrument :

BNA\_N

ClientSampleId :

GAJ60ME

Tot Ion:128 Resp:21102077

Ion Ratio Lower Upper

128 100

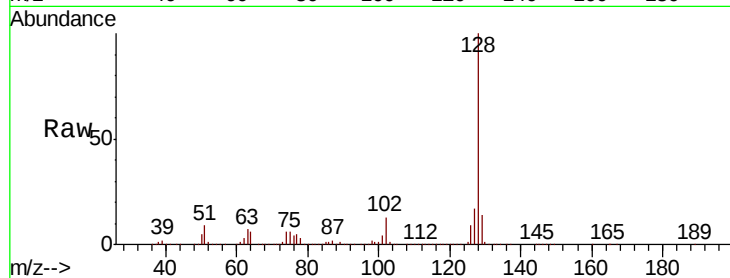
129 13.9 9.2 13.8#

127 16.8 10.7 16.1#

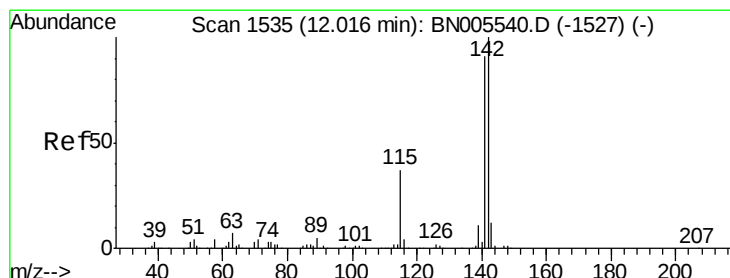
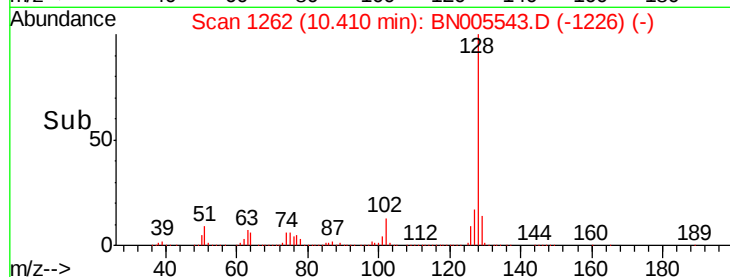
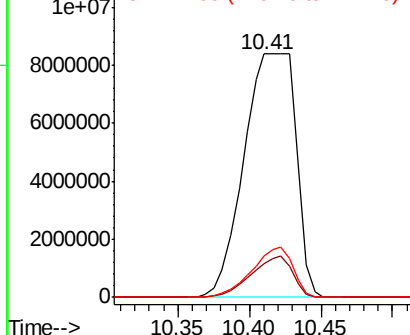
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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 137.004 ng/ul

RT: 12.03 min Scan# 1537

Delta R.T. 0.01 min

Lab File: BN005543.D

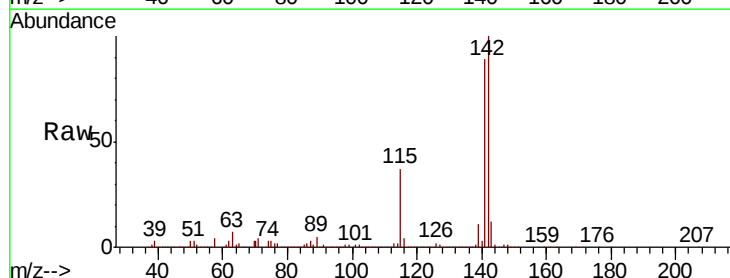
Acq: 08 May 2019 21:43

Tgt Ion:142 Resp: 6275302

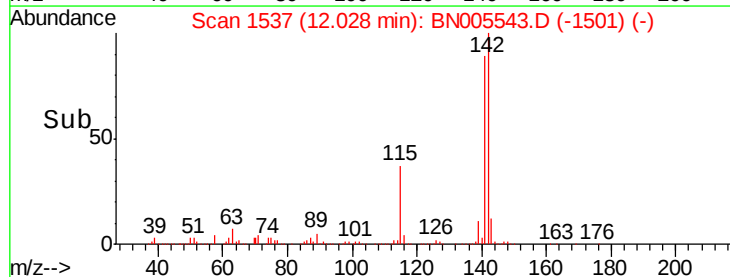
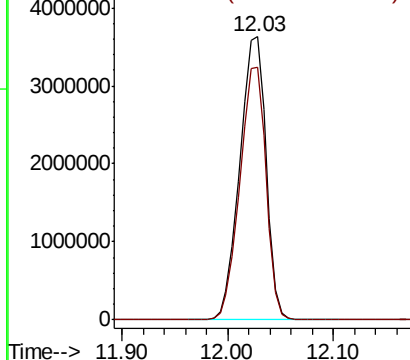
Ion Ratio Lower Upper

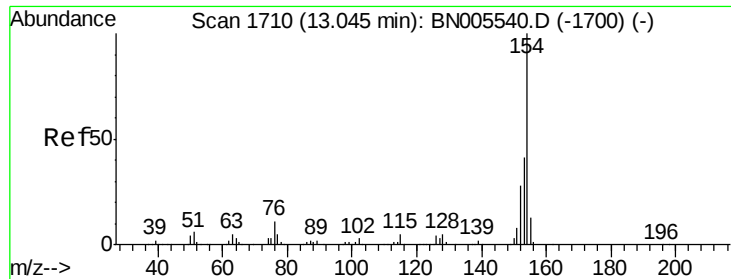
142 100

141 89.1 72.0 108.0



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





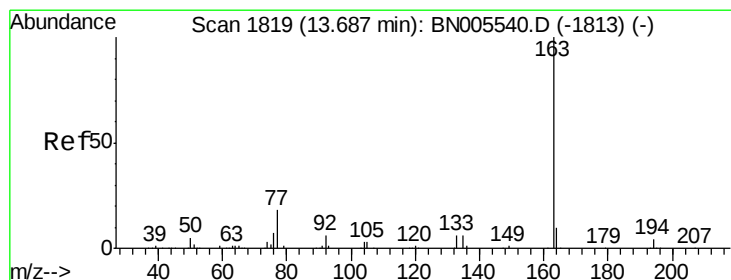
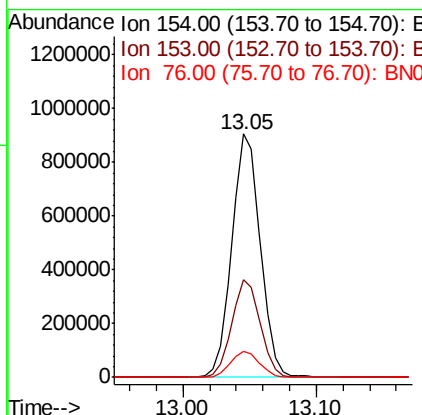
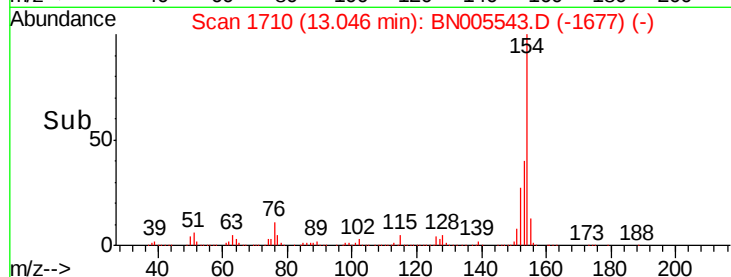
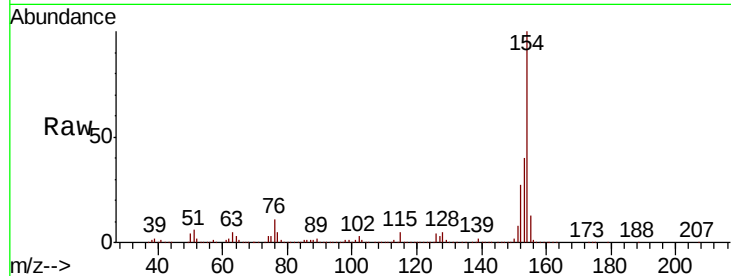
#40  
1,1'-Biphenyl  
Concen: 21.502 ng/ul  
RT: 13.05 min Scan# 1710  
Delta R.T. -0.01 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ60ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.1  | 32.6  | 49.0  |
| 76      | 10.6  | 10.4  | 15.6  |

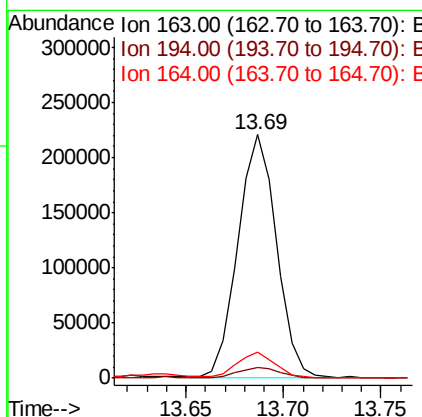
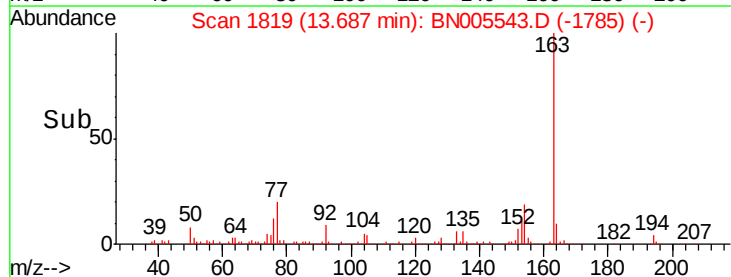
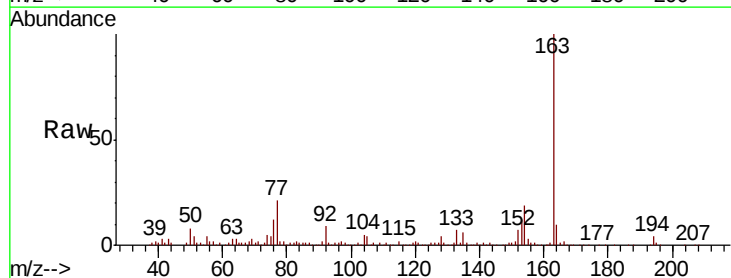
Manual Integrations  
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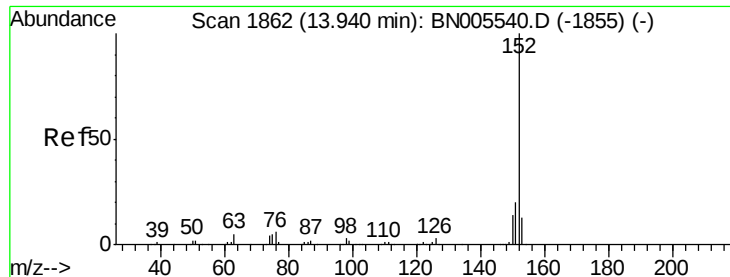
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#44  
Dimethylphthalate  
Concen: 4.949 ng/ul  
RT: 13.69 min Scan# 1819  
Delta R.T. 0.00 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.4   | 5.0   |
| 164     | 10.4  | 8.1   | 12.1  |





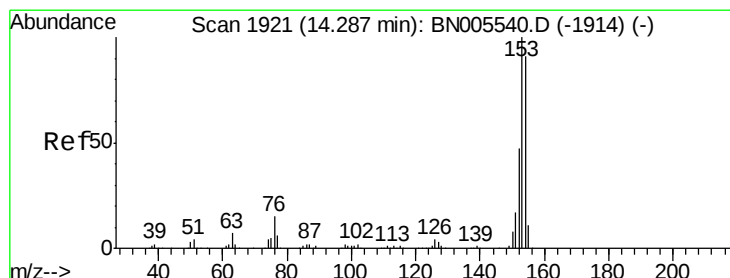
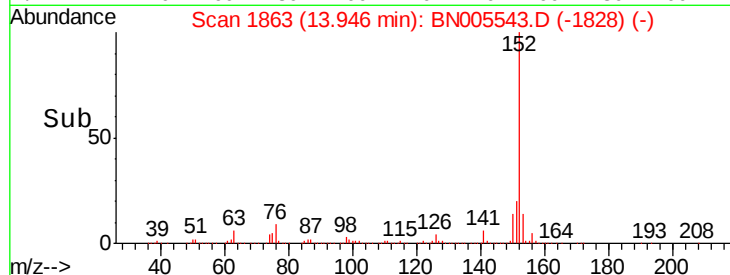
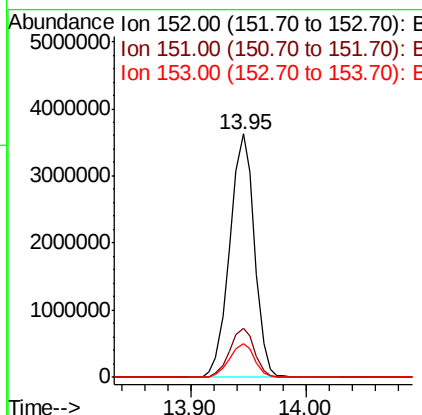
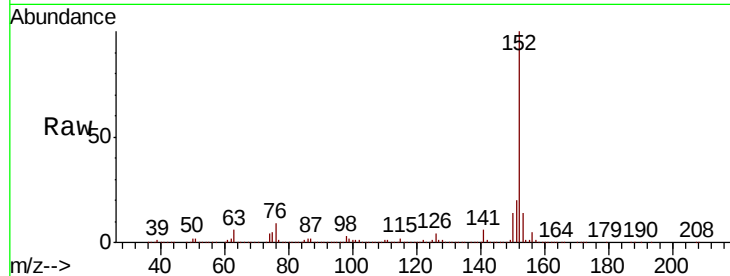
#47  
Acenaphthylene  
Concen: 72.973 ng/ul  
RT: 13.95 min Scan# 1863  
Delta R.T. 0.01 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ60ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 15.8  | 23.8  |
| 153     | 14.1  | 9.8   | 14.8  |

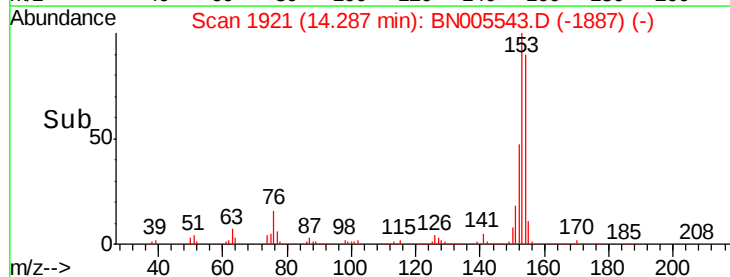
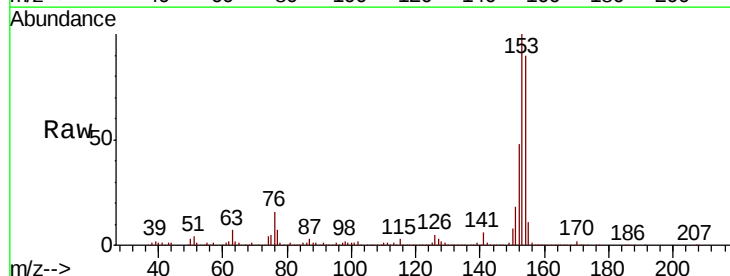
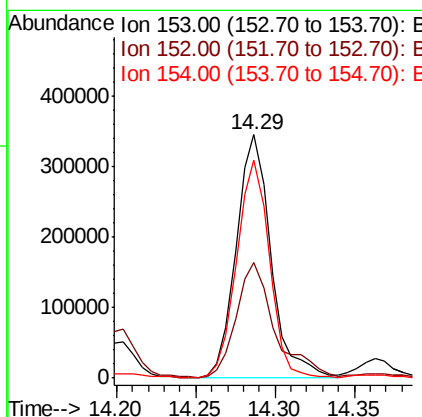
Manual Integrations  
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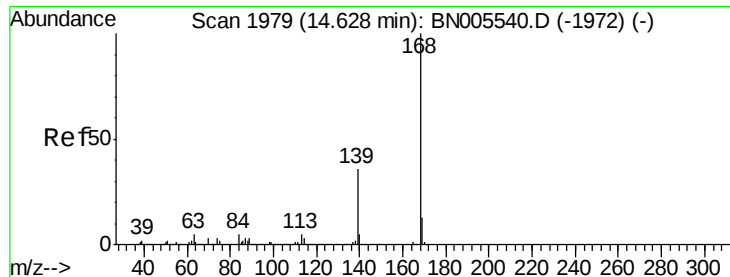
Sohil  
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#49  
Acenaphthene  
Concen: 10.399 ng/ul  
RT: 14.29 min Scan# 1921  
Delta R.T. 0.00 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 47.5  | 37.4  | 56.0  |
| 154     | 89.6  | 71.2  | 106.8 |





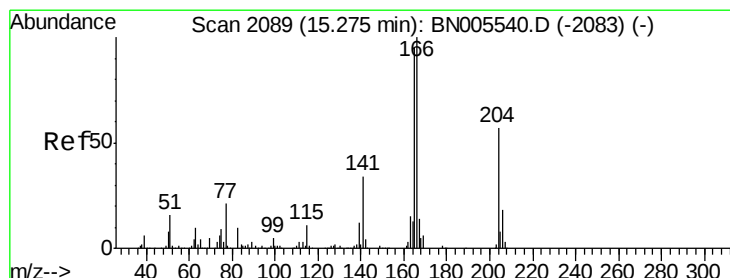
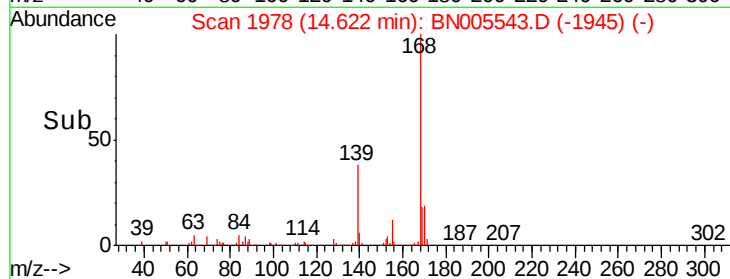
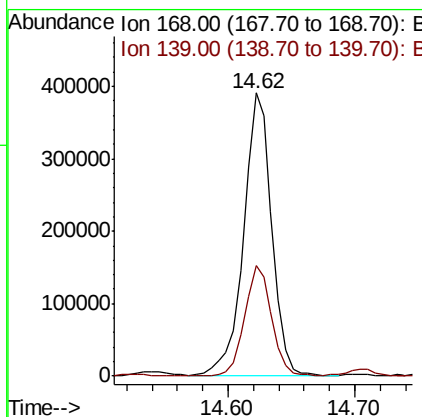
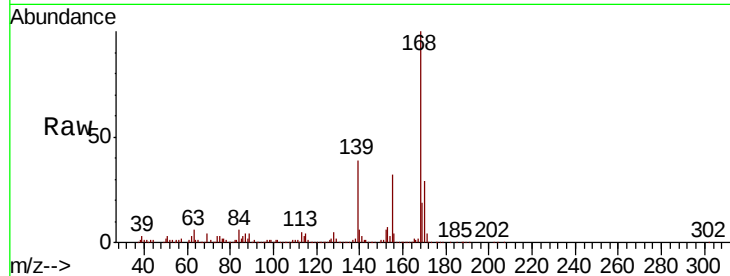
#53  
Dibenzenofuran  
Concen: 8.319 ng/ul  
RT: 14.62 min Scan# 1978  
Delta R.T. -0.01 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

Instrument :  
BNA\_N  
ClientSampled :  
GAJ60ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 39.0  | 30.9  | 46.3  |

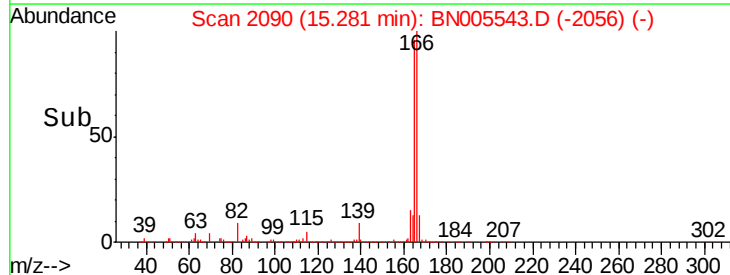
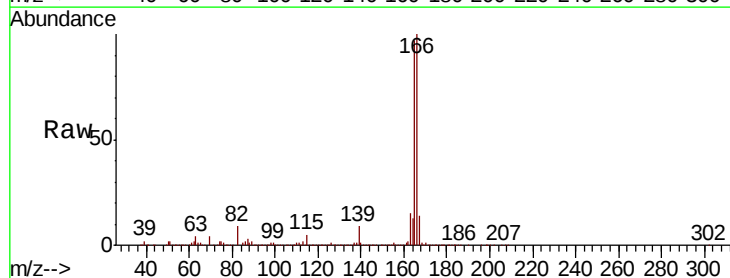
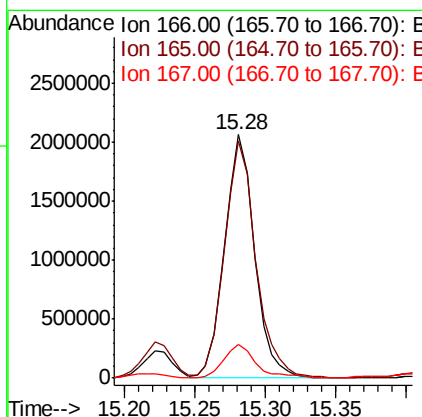
Manual Integrations  
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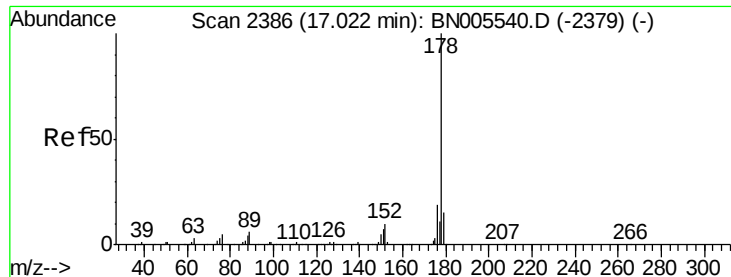
Sohil  
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#58  
Fluorene  
Concen: 53.946 ng/ul  
RT: 15.28 min Scan# 2090  
Delta R.T. 0.00 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.5  | 80.0  | 120.0 |
| 167     | 13.7  | 10.7  | 16.1  |





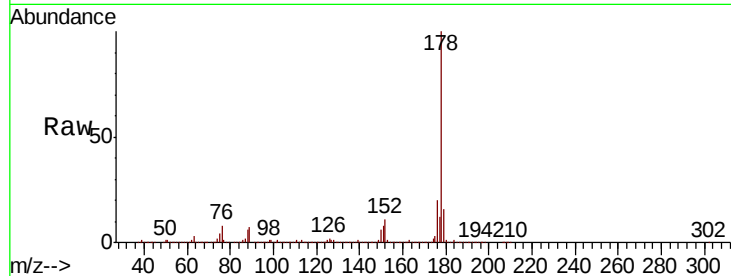
#69  
Phenanthrene  
Concen: 134.470 ng/ul  
RT: 17.03 min Scan# 2388  
Delta R.T. 0.01 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

Instrument :  
BNA\_N  
ClientSampled :  
GAJ60ME

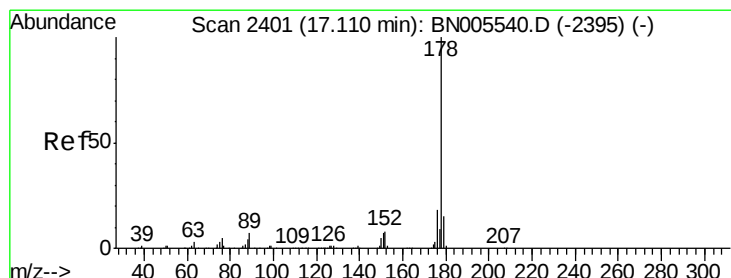
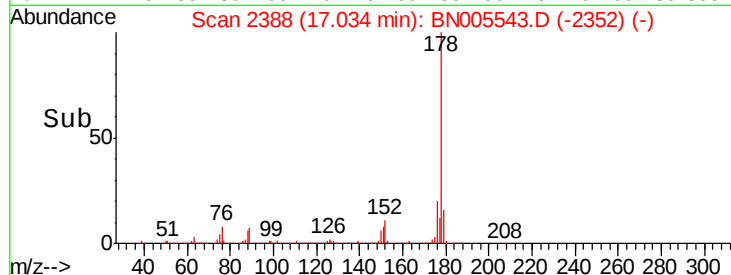
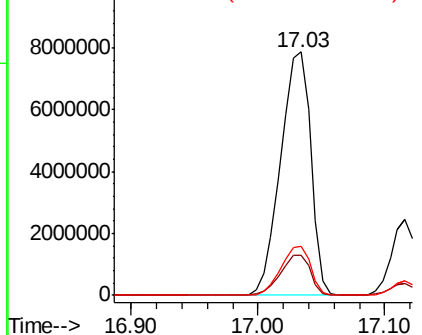
Tot Ion:178 Resp:13009422  
Ion Ratio Lower Upper  
178 100  
179 16.4 12.2 18.4  
176 20.2 15.1 22.7

Manual Integrations  
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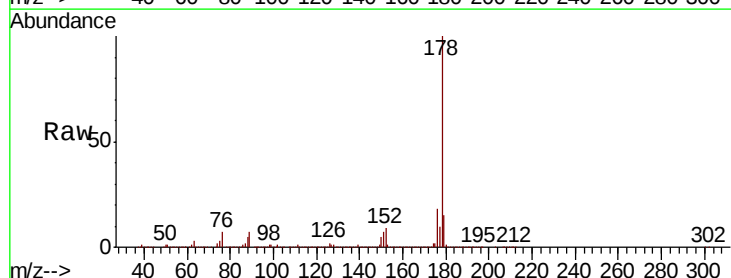


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E

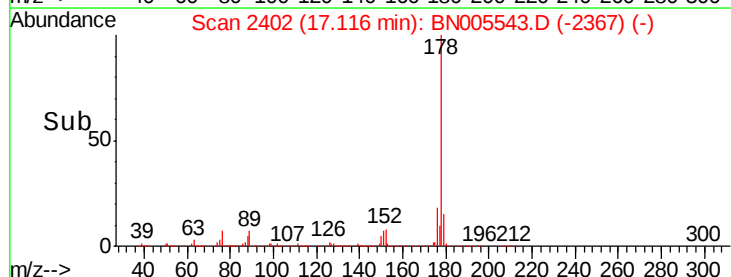
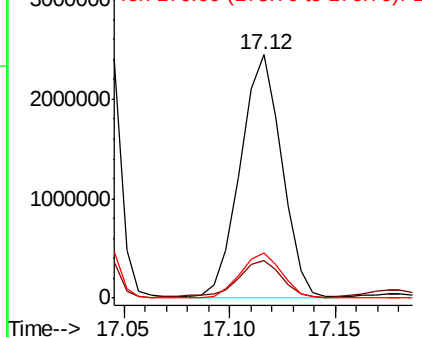


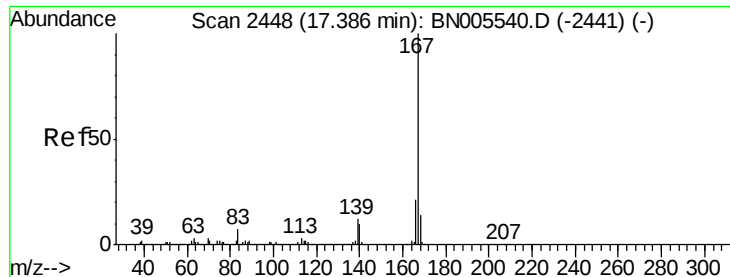
#71  
Anthracene  
Concen: 33.827 ng/ul  
RT: 17.12 min Scan# 2402  
Delta R.T. 0.01 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

Tgt Ion:178 Resp: 3333803  
Ion Ratio Lower Upper  
178 100  
179 15.3 12.3 18.5  
176 18.4 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





#74

Carbazole

Concen: 2.588 ng/ul

RT: 17.39 min Scan# 2448

Delta R.T. 0.00 min

Lab File: BN005543.D

Acq: 08 May 2019 21:43

Instrument :

BNA\_N

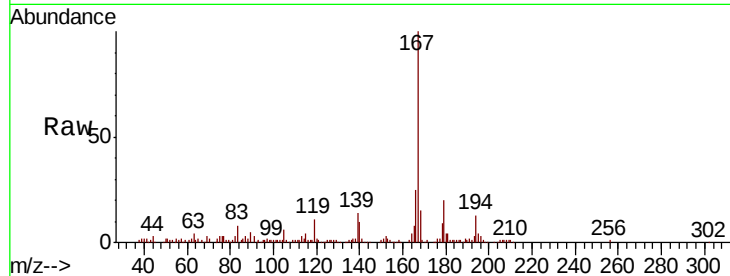
ClientSampleId :

GAJ60ME

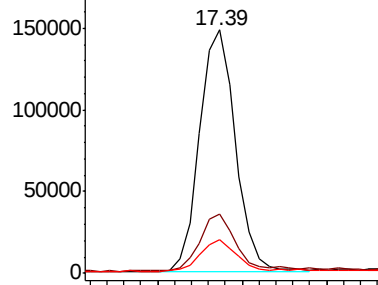
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 167   | Resp: | 219116 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 24.5  | 17.2  | 25.8   |
| 139       | 13.8  | 10.6  | 16.0   |

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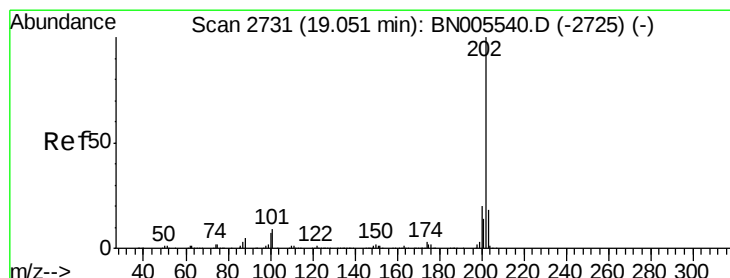
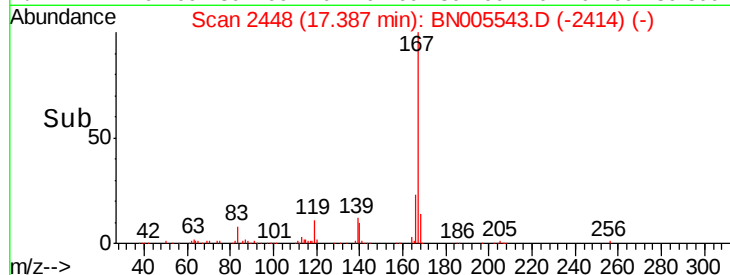
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Abundance Ion 167.00 (166.70 to 167.70): E  
Ion 166.00 (165.70 to 166.70): E  
Ion 139.00 (138.70 to 139.70): E



Time-->



#76

Fluoranthene

Concen: 56.030 ng/ul

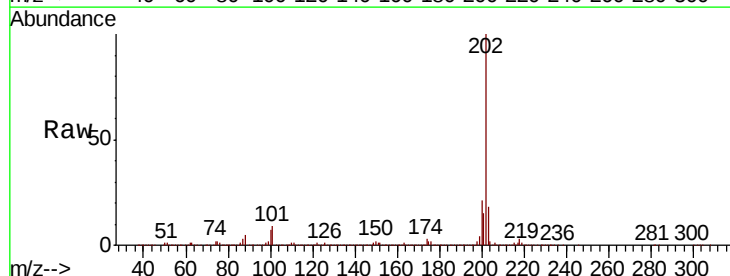
RT: 19.06 min Scan# 2732

Delta R.T. 0.00 min

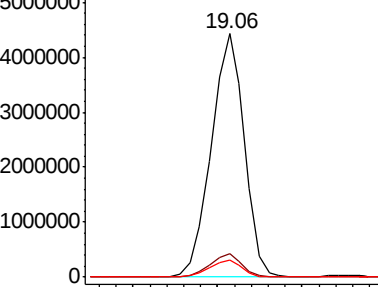
Lab File: BN005543.D

Acq: 08 May 2019 21:43

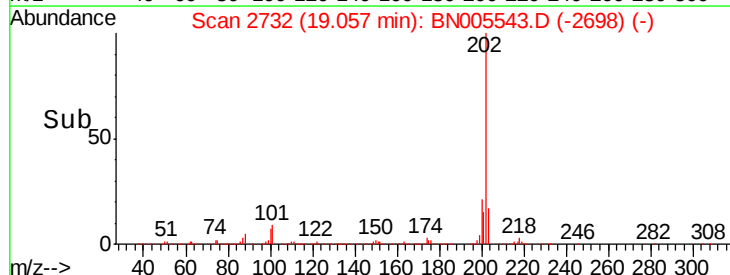
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 6012512 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.4   | 8.6   | 12.8    |
| 100       | 6.9   | 6.3   | 9.5     |

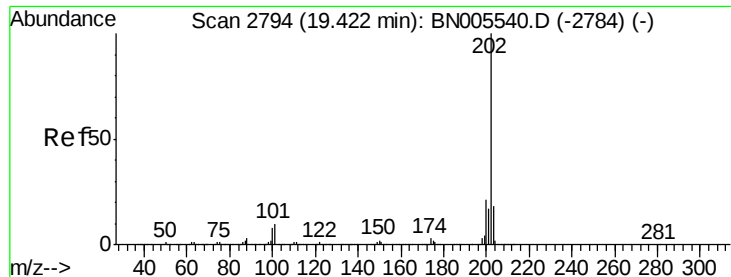


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B



Time-->





#79

Pvrene

Concen: 71.637 ng/ul

RT: 19.43 min Scan# 2795

Delta R.T. 0.01 min

Lab File: BN005543.D

Acq: 08 May 2019 21:43

Instrument :

BNA\_N

ClientSampleId :

GAJ60ME

Tot Ion:202 Resp: 7617281

Ion Ratio Lower Upper

202 100

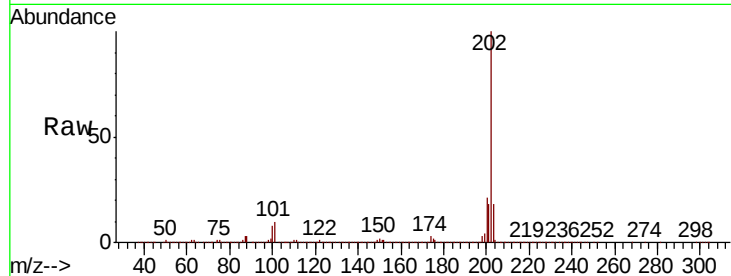
101 10.2 10.3 15.5#

100 8.5 7.9 11.9

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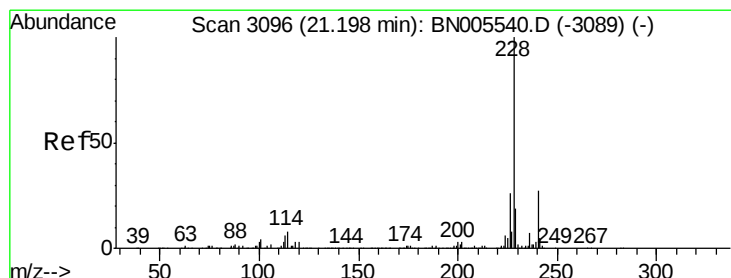
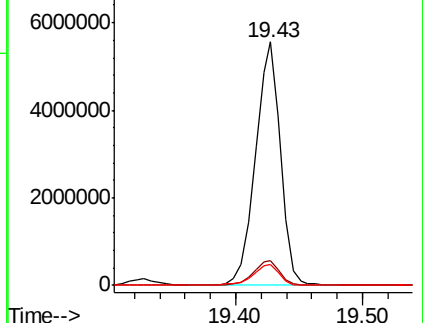
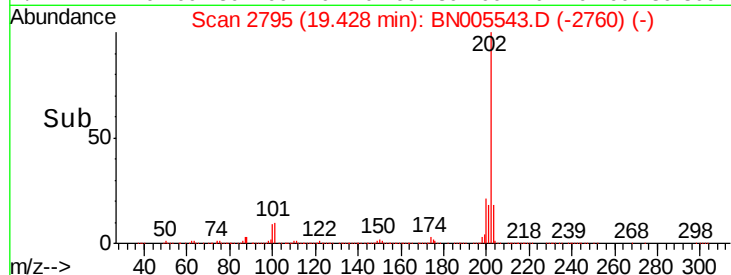
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#82

Benzo(a)anthracene

Concen: 25.468 ng/ul m

RT: 21.19 min Scan# 3095

Delta R.T. -0.01 min

Lab File: BN005543.D

Acq: 08 May 2019 21:43

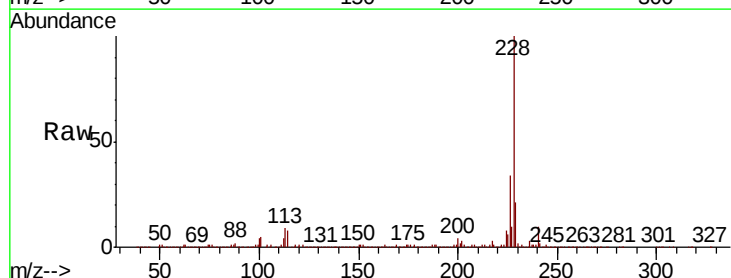
Tgt Ion:228 Resp: 2616542

Ion Ratio Lower Upper

228 100

229 21.2 15.8 23.6

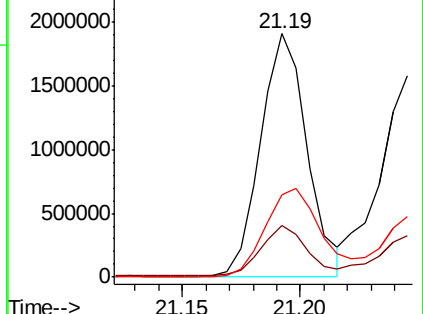
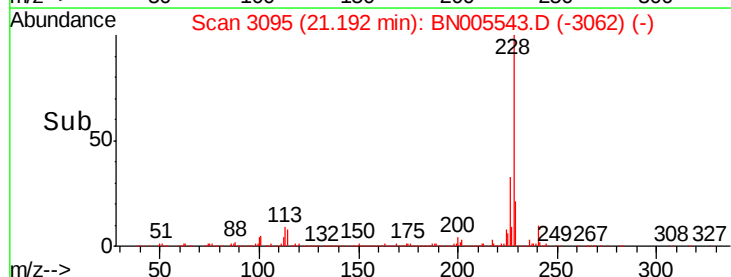
226 33.8 21.4 32.2#

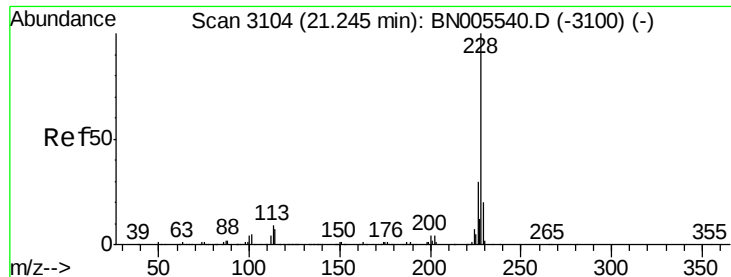


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 22.977 ng/ul

RT: 21.25 min Scan# 3104

Delta R.T. -0.01 min

Lab File: BN005543.D

Acq: 08 May 2019 21:43

Instrument :

BNA\_N

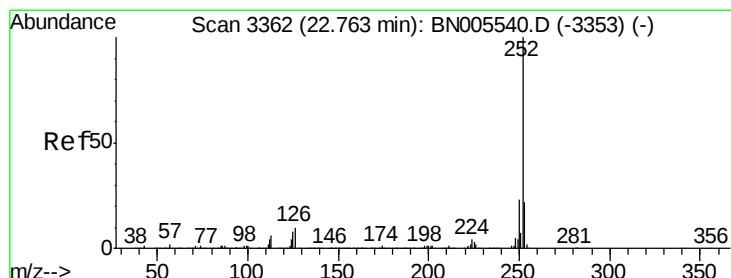
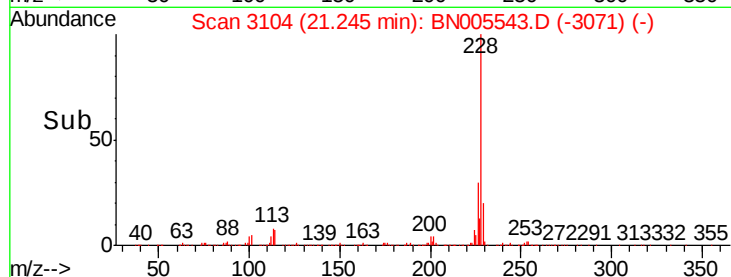
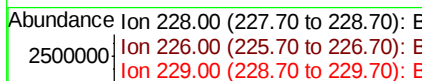
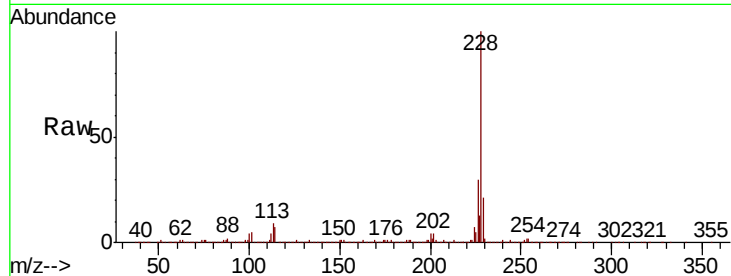
ClientSampleId :

GAJ60ME

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 228   | Resp: | 2190861 |
| Ion      | Ratio | Lower | Upper   |
| 228      | 100   |       |         |
| 226      | 30.0  | 24.0  | 36.0    |
| 229      | 20.6  | 15.4  | 23.0    |

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#87

Benzo(b)fluoranthene

Concen: 16.351 ng/ul m

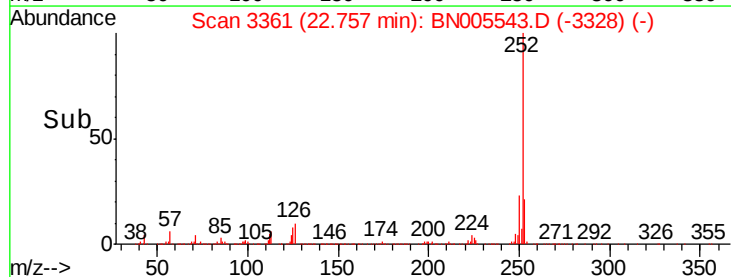
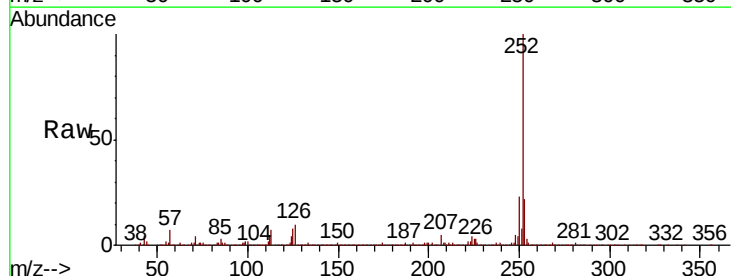
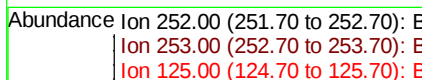
RT: 22.76 min Scan# 3361

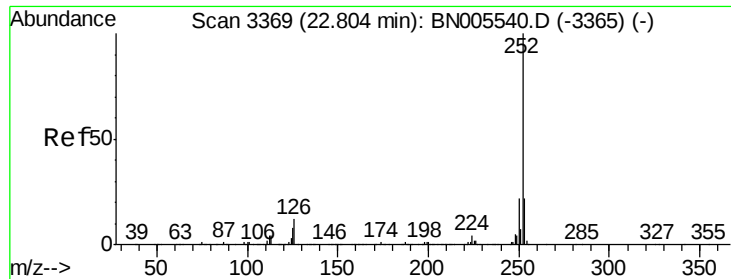
Delta R.T. -0.01 min

Lab File: BN005543.D

Acq: 08 May 2019 21:43

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 252   | Resp: | 1431351 |
| Ion      | Ratio | Lower | Upper   |
| 252      | 100   |       |         |
| 253      | 21.7  | 17.7  | 26.5    |
| 125      | 8.2   | 8.4   | 12.6#   |





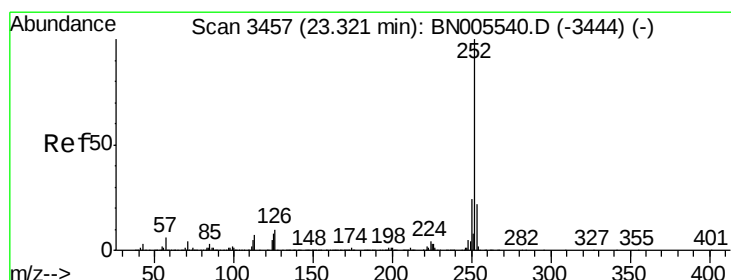
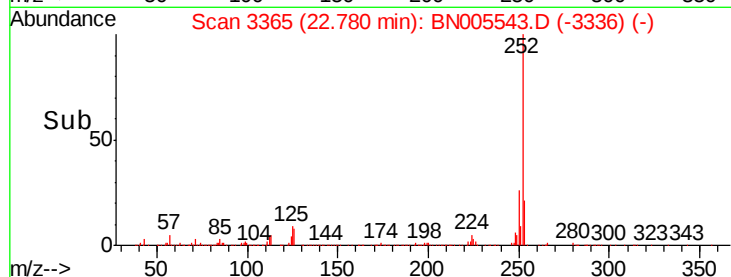
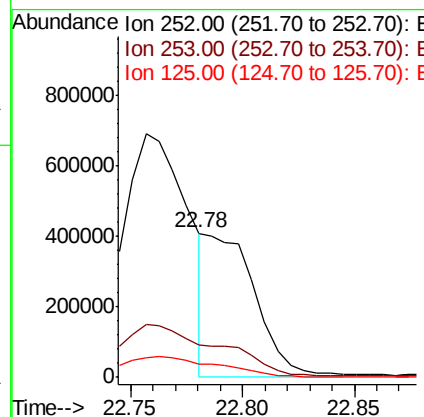
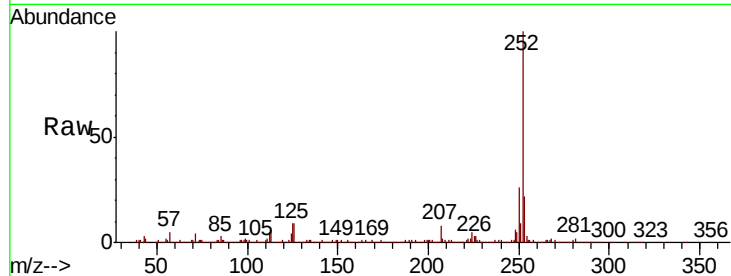
#88  
Benzo(k)fluoranthene  
Concen: 7.420 ng/ul m  
RT: 22.78 min Scan# 3365  
Delta R.T. -0.03 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ60ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.4  | 26.0  |
| 125     | 9.4   | 7.5   | 11.3  |

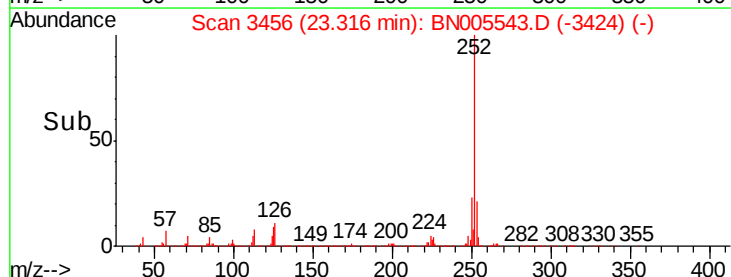
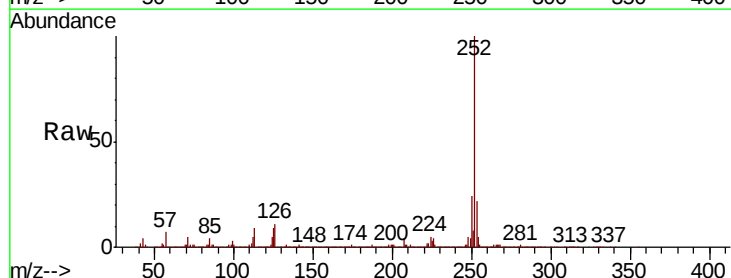
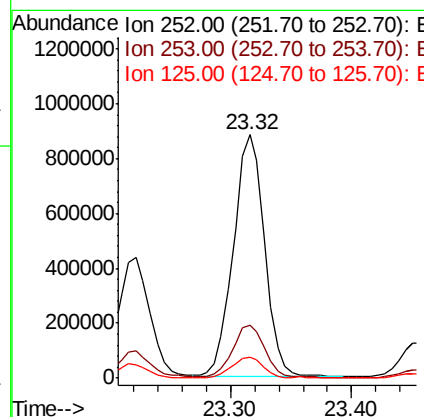
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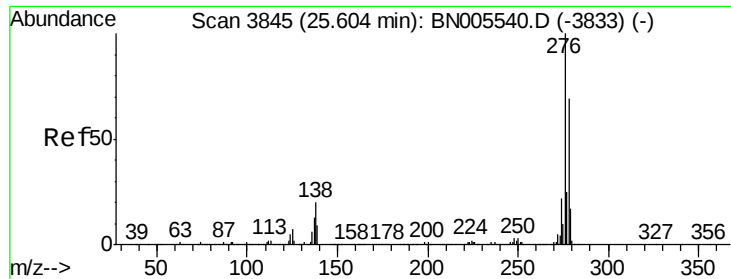
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#90  
Benzo(a)pyrene  
Concen: 19.316 ng/ul  
RT: 23.32 min Scan# 3456  
Delta R.T. -0.01 min  
Lab File: BN005543.D  
Acq: 08 May 2019 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.3  | 25.9  |
| 125     | 8.7   | 8.6   | 13.0  |





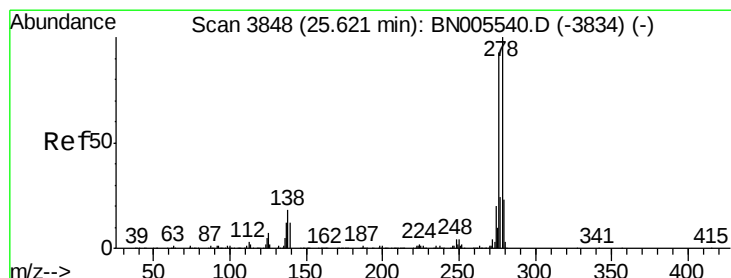
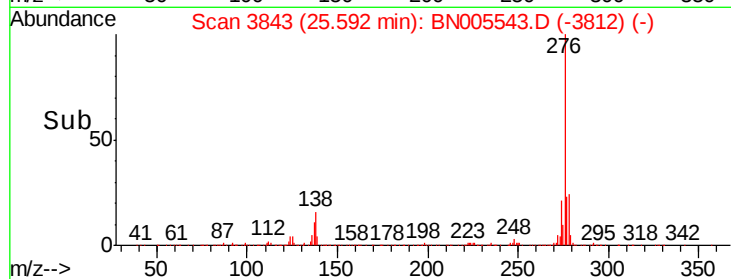
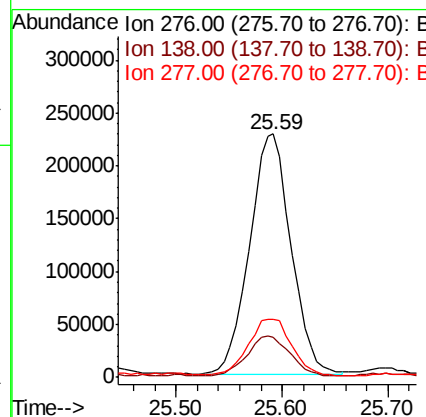
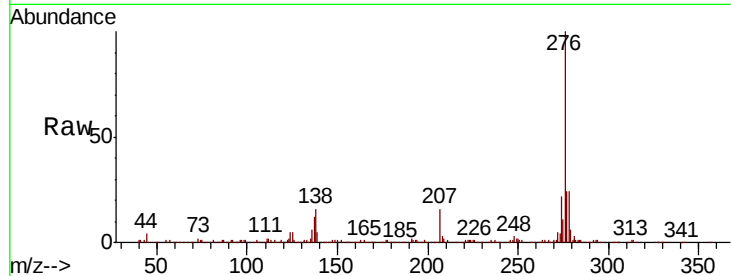
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.808 ng/ul  
 RT: 25.59 min Scan# 3843  
 Delta R.T. -0.02 min  
 Lab File: BN005543.D  
 Acq: 08 May 2019 21:43

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ60ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.3  | 17.9  | 26.9# |
| 277     | 24.0  | 19.7  | 29.5  |

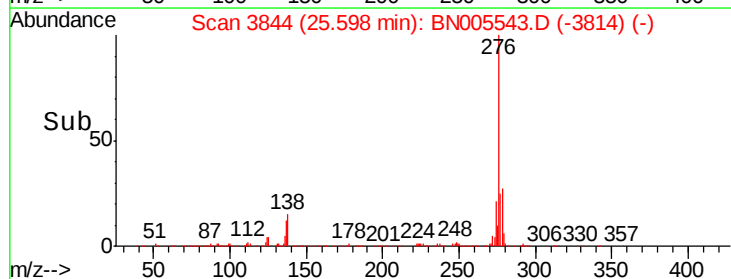
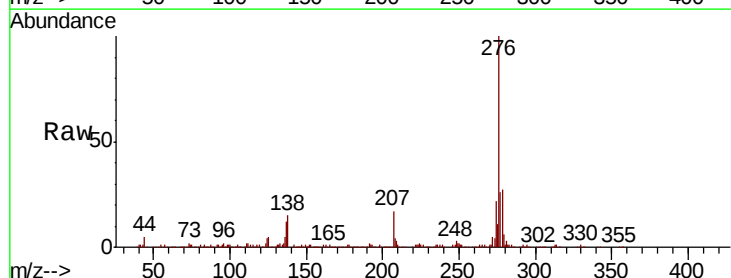
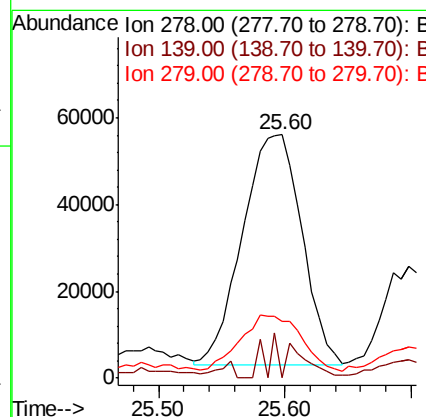
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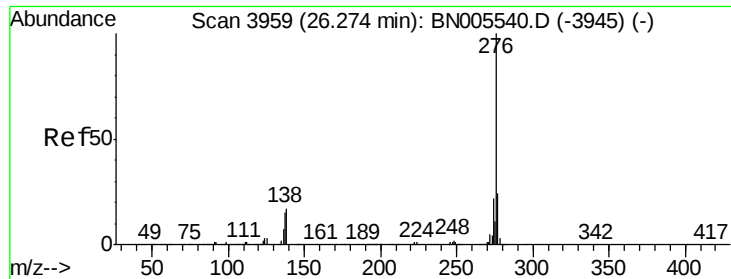
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#92  
 Dibenzo(a,h)anthracene  
 Concen: 2.241 ng/ul m  
 RT: 25.60 min Scan# 3844  
 Delta R.T. -0.02 min  
 Lab File: BN005543.D  
 Acq: 08 May 2019 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 13.1  | 19.7# |
| 279     | 23.5  | 19.4  | 29.0  |





#93  
 Benzo(a,h,i)perylene  
 Concen: 7.409 ng/ul  
 RT: 26.26 min Scan# 3956  
 Delta R.T. -0.02 min  
 Lab File: BN005543.D  
 Acq: 08 May 2019 21:43

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ60ME

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 557325 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 17.1  | 16.7  | 25.1   |
| 277       | 23.9  | 18.2  | 27.2   |

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