

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\  
 Data File : BN005279.D  
 Acq On : 25 Apr 2019 08:35  
 Operator : JU/SJ  
 Sample : K2455-06DL 30X  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleID :  
 GAHQ8DL

Manual Integrations  
 APPROVED

Sohil  
 4/26/2019 11:25:25 PM

Quant Time: Apr 25 10:24:04 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  | 422178   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 1785071  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.23 | 164  | 1031510  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.98 | 188  | 2054041  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.21 | 240  | 1524750  | 20.00 | ng/ul | -0.02    |
| 85) Perylene-d12          | 23.41 | 264  | 1656678  | 20.00 | ng/ul | -0.03    |

## System Monitoring Compounds

|                                |       |     |       |      |       |       |
|--------------------------------|-------|-----|-------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 1169  | 0.13 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 25113 | 0.76 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 16738 | 0.81 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 20301 | 0.80 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 18852 | 0.73 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 11234 | 1.02 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 9231  | 0.83 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.98  | 165 | 18929 | 0.74 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.49 | 131 | 13947 | 0.53 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 69069 | 0.92 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 80283 | 0.87 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.45 | 143 | 6222m | 0.53 | ng/ul | 0.01  |
| 57) Fluorene-d10               | 15.22 | 176 | 63246 | 1.01 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.35 | 200 | 2171  | 0.23 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.08 | 188 | 84854 | 0.99 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.39 | 212 | 76223 | 0.98 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.27 | 264 | 64323 | 0.89 | ng/ul | -0.03 |

## Target Compounds

|                          |       |     |         |        | Ovalue |     |
|--------------------------|-------|-----|---------|--------|--------|-----|
| 28) Naphthalene          | 10.40 | 128 | 2773102 | 33.417 | ng/ul  | 99  |
| 34) 2-Methylnaphthalene  | 12.03 | 142 | 3967971 | 65.303 | ng/ul  | 99  |
| 40) 1,1'-Biphenyl        | 13.06 | 154 | 272939  | 3.551  | ng/ul  | 99  |
| 47) Acenaphthylene       | 13.95 | 152 | 799716  | 8.848  | ng/ul  | 97  |
| 49) Acenaphthene         | 14.29 | 153 | 85580   | 1.387  | ng/ul  | 97  |
| 53) Dibenzofuran         | 14.63 | 168 | 115257  | 1.297  | ng/ul  | 97  |
| 58) Fluorene             | 15.28 | 166 | 468075  | 6.752  | ng/ul  | 97  |
| 69) Phenanthrene         | 17.02 | 178 | 1946771 | 19.461 | ng/ul  | 99  |
| 71) Anthracene           | 17.12 | 178 | 403099  | 3.956  | ng/ul  | 98  |
| 76) Fluoranthene         | 19.05 | 202 | 436987  | 3.938  | ng/ul  | 99  |
| 79) Pyrene               | 19.42 | 202 | 684560  | 6.973  | ng/ul  | 97  |
| 82) Benzo(a)anthracene   | 21.19 | 228 | 271111m | 2.858  | ng/ul  |     |
| 84) Chrysene             | 21.25 | 228 | 223526  | 2.539  | ng/ul  | 98  |
| 87) Benzo(b)fluoranthene | 22.76 | 252 | 196800  | 2.113  | ng/ul  | 100 |
| 90) Benzo(a)pyrene       | 23.31 | 252 | 164510  | 1.879  | ng/ul  | 100 |

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

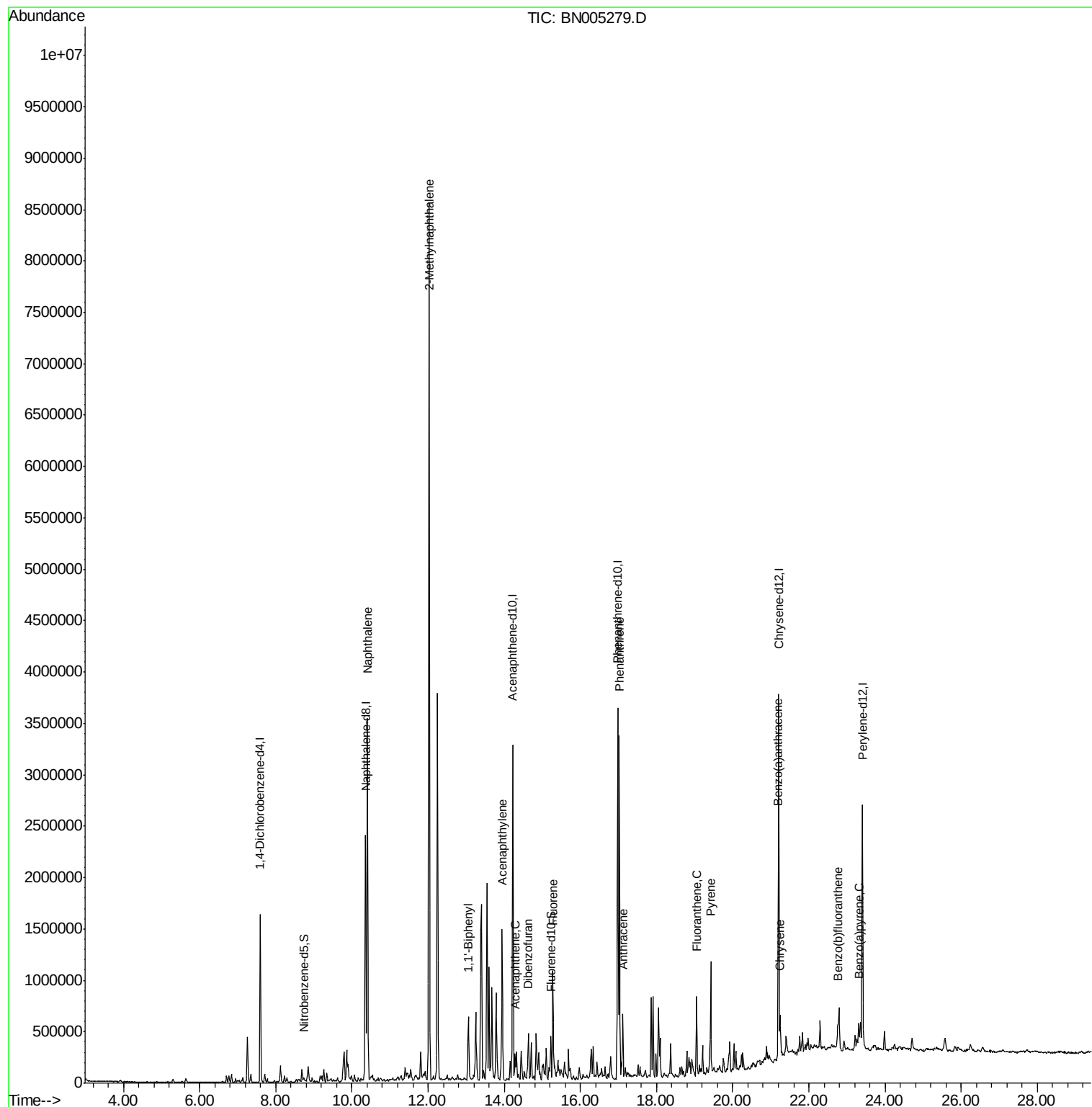
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN042419\  
Data File : BN005279.D  
Acq On : 25 Apr 2019 08:35  
Operator : JU/SJ  
Sample : K2455-06DL 30X  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

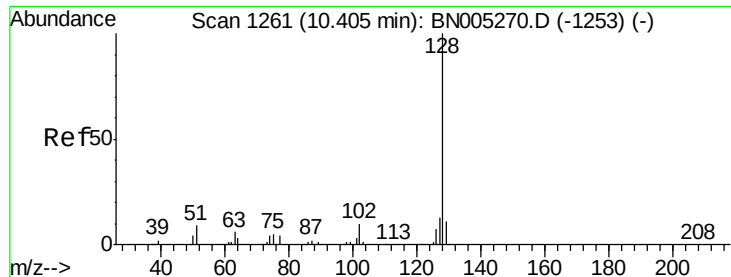
Instrument :  
BNA\_N  
ClientSampleId :  
GAHQ8DL

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Quant Time: Apr 25 10:24:04 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: 33.417 ng/ul

RT: 10.40 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BN005279.D

Acq: 25 Apr 2019 08:35

Instrument :

BNA\_N

ClientSampleId :

GAHQ8DL

Tot Ion:128 Resp: 2773102

Ion Ratio Lower Upper

128 100

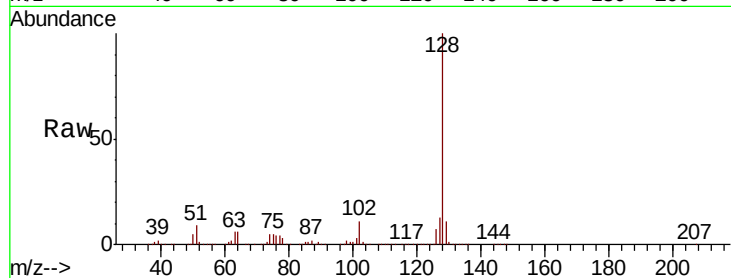
129 11.1 9.2 13.8

127 13.2 10.7 16.1

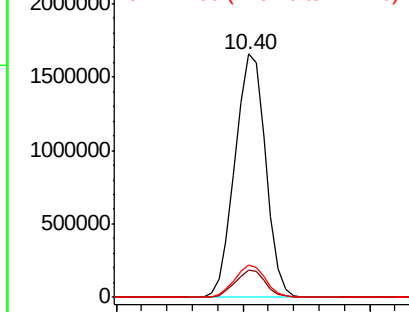
Manual Integrations  
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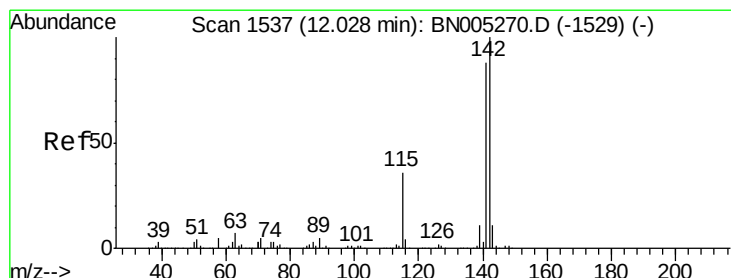
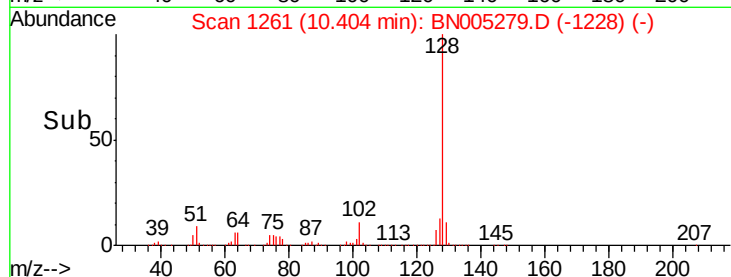
4/26/2019 11:25:25 PM



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



Time--> 10.30 10.40 10.50



#34

2-Methylnaphthalene

Concen: 65.303 ng/ul

RT: 12.03 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BN005279.D

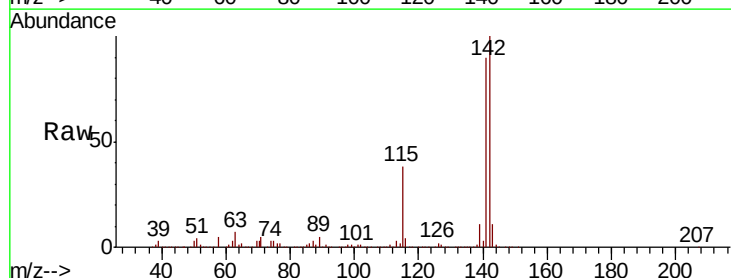
Acq: 25 Apr 2019 08:35

Tgt Ion:142 Resp: 3967971

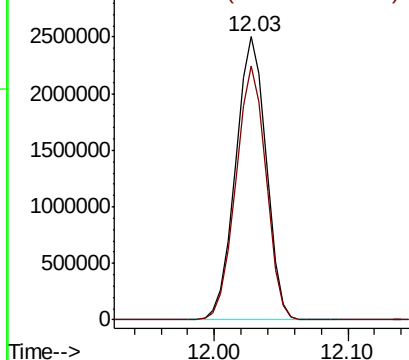
Ion Ratio Lower Upper

142 100

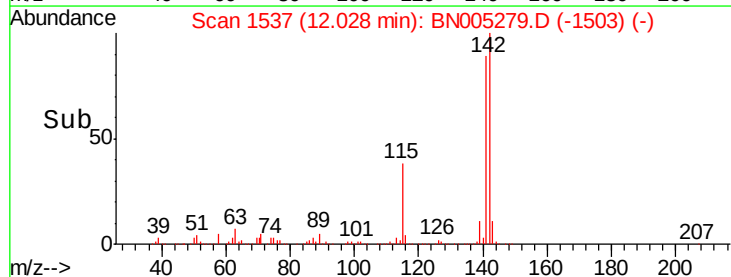
141 89.5 72.0 108.0

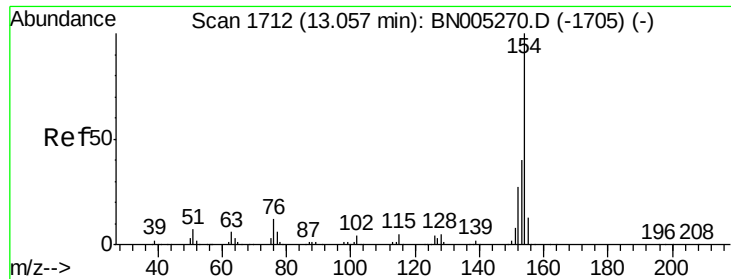


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E



Time--> 12.00 12.10





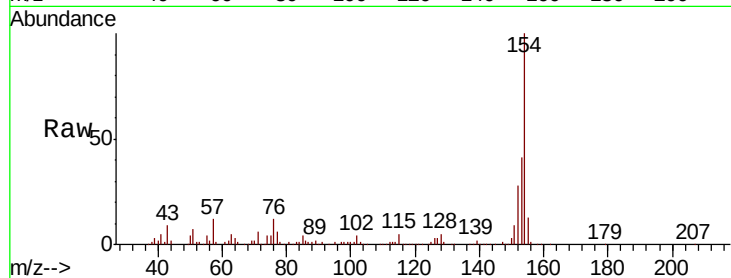
#40  
 1,1'-Biphenyl  
 Concen: 3.551 ng/ul  
 RT: 13.06 min Scan# 1712  
 Delta R.T. 0.00 min  
 Lab File: BN005279.D  
 Acq: 25 Apr 2019 08:35

Instrument :  
 BNA\_N  
 ClientSampleID :  
 GAHQ8DL

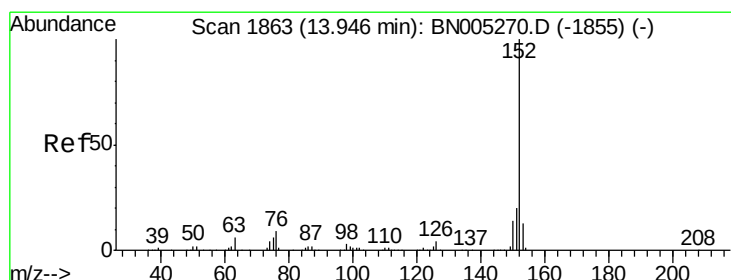
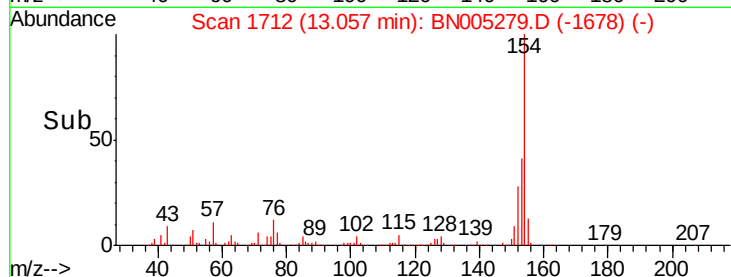
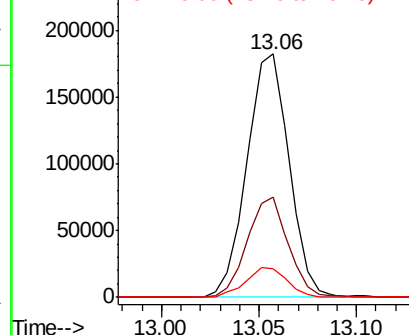
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 272939 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 41.1  | 32.6  | 49.0   |
| 76        | 11.9  | 10.4  | 15.6   |

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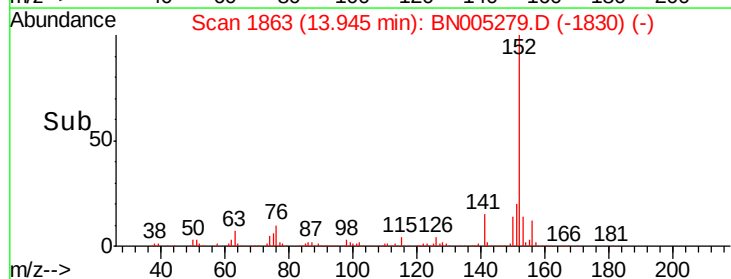
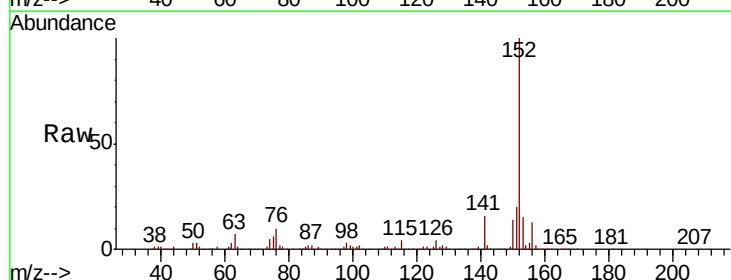
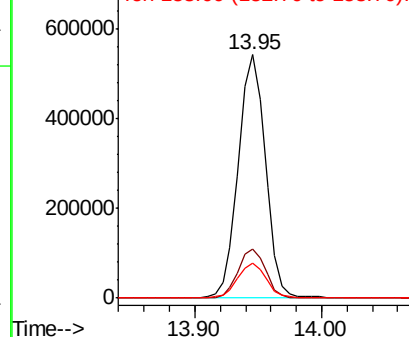
Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BNC

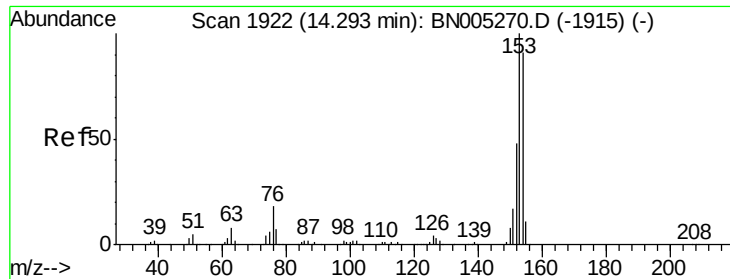


#47  
 Acenaphthylene  
 Concen: 8.848 ng/ul  
 RT: 13.95 min Scan# 1863  
 Delta R.T. -0.01 min  
 Lab File: BN005279.D  
 Acq: 25 Apr 2019 08:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 799716 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.4  | 15.8  | 23.8   |
| 153       | 14.5  | 9.8   | 14.8   |

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: 1.387 ng/ul

RT: 14.29 min Scan# 1922

Delta R.T. -0.01 min

Lab File: BN005279.D

Acq: 25 Apr 2019 08:35

Instrument :

BNA\_N

ClientSampleId :

GAHQ8DL

Tot Ion:153 Resp: 85580

Ion Ratio Lower Upper

153 100

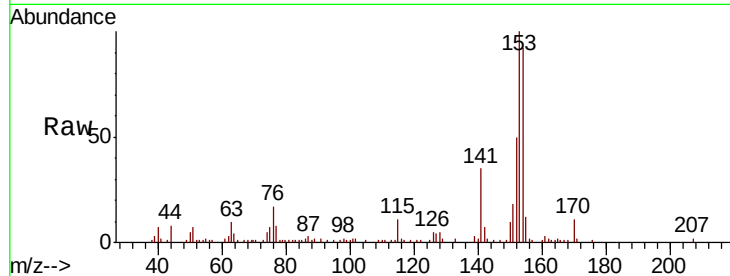
152 49.9 37.4 56.0

154 91.6 71.2 106.8

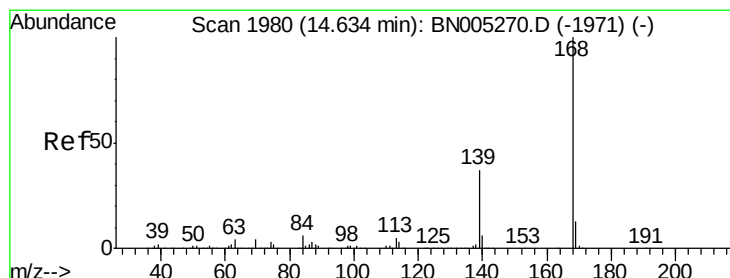
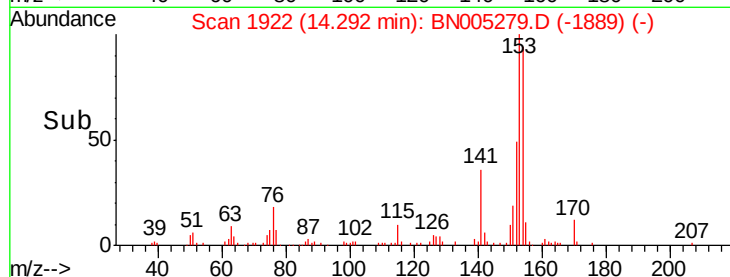
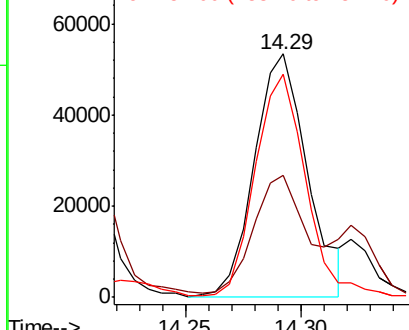
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Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 1.297 ng/ul

RT: 14.63 min Scan# 1979

Delta R.T. -0.01 min

Lab File: BN005279.D

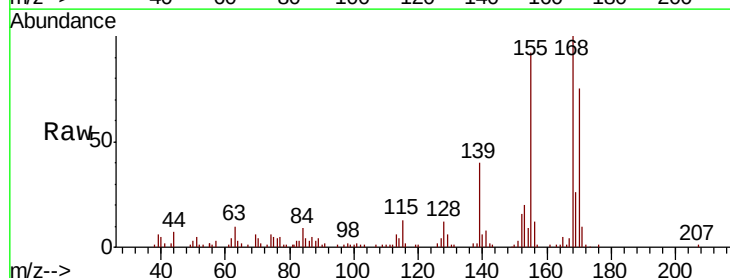
Acq: 25 Apr 2019 08:35

Tgt Ion:168 Resp: 115257

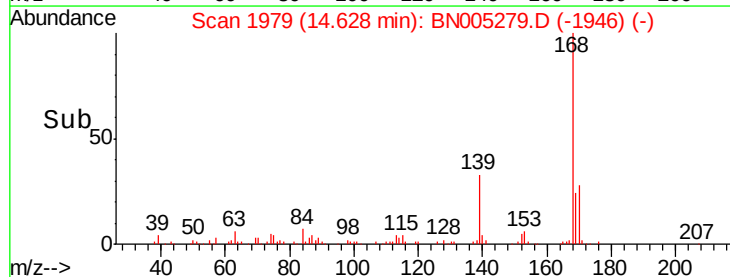
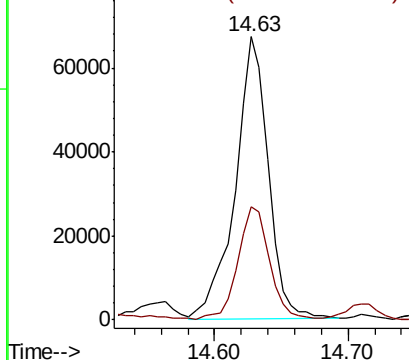
Ion Ratio Lower Upper

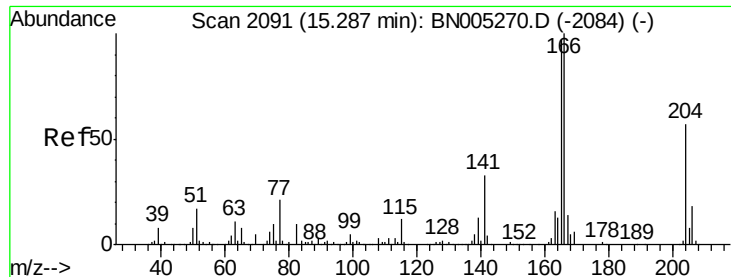
168 100

139 40.1 30.9 46.3



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





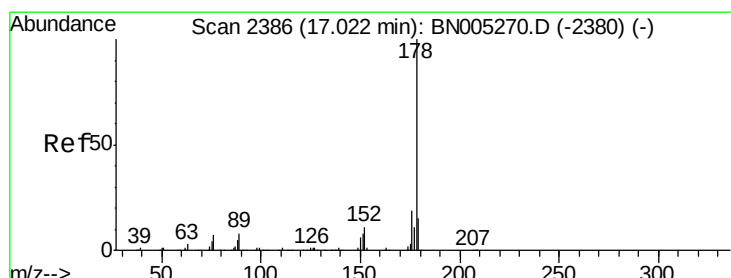
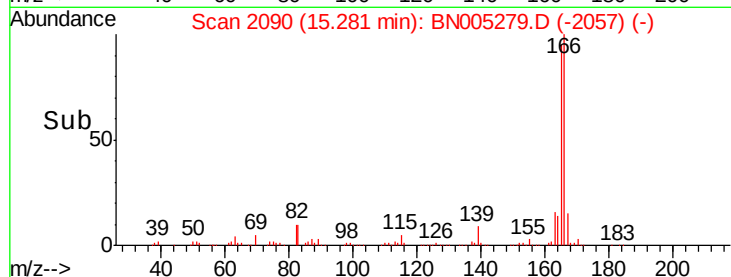
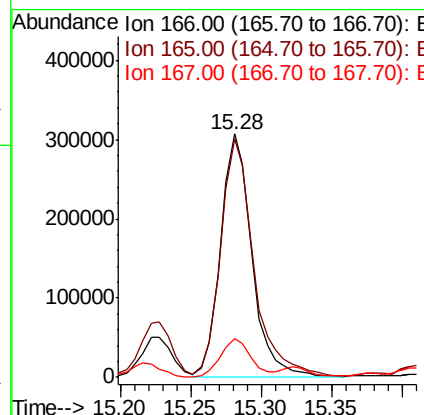
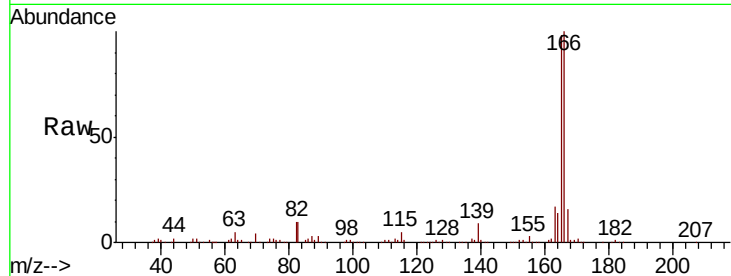
#58  
 Fluorene  
 Concen: 6.752 ng/ul  
 RT: 15.28 min Scan# 2090  
 Delta R.T. -0.01 min  
 Lab File: BN005279.D  
 Acq: 25 Apr 2019 08:35

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAHQ8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.8  | 80.0  | 120.0 |
| 167     | 16.0  | 10.7  | 16.1  |

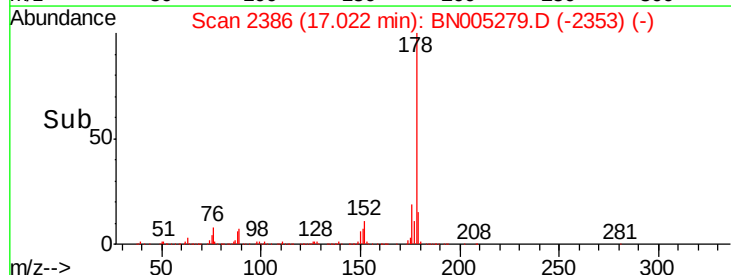
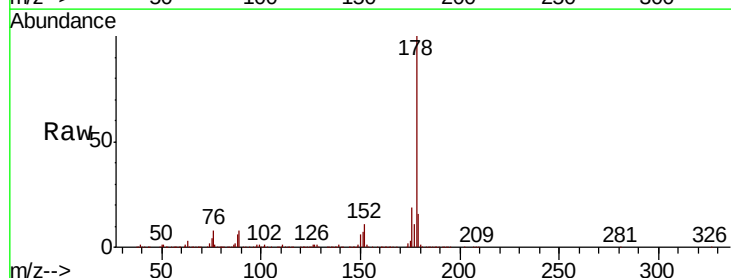
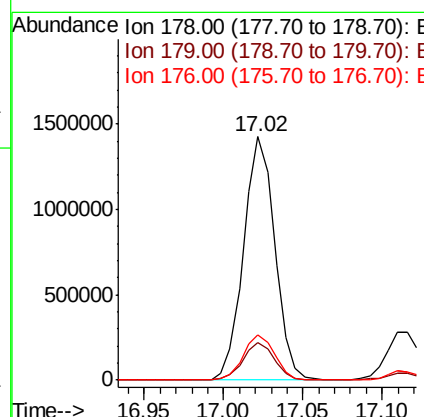
Manual Integrations  
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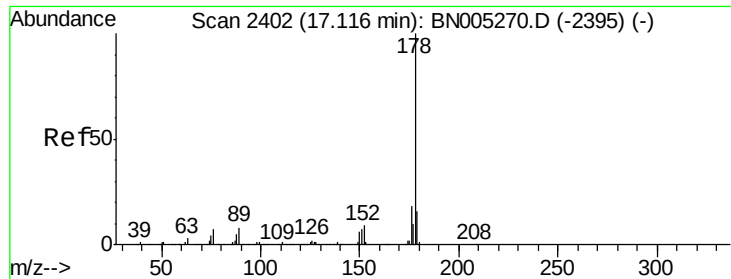
Sohil  
 4/26/2019 11:25:25 PM



#69  
 Phenanthrene  
 Concen: 19.461 ng/ul  
 RT: 17.02 min Scan# 2386  
 Delta R.T. -0.01 min  
 Lab File: BN005279.D  
 Acq: 25 Apr 2019 08:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 12.2  | 18.4  |
| 176     | 18.8  | 15.1  | 22.7  |





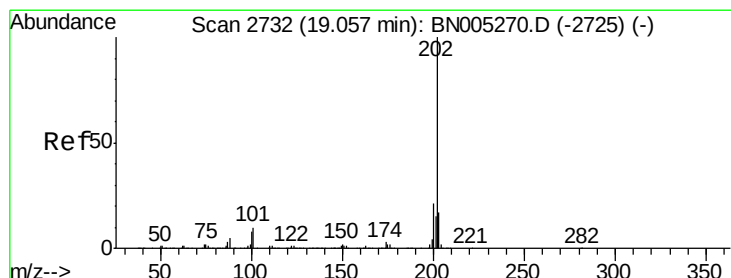
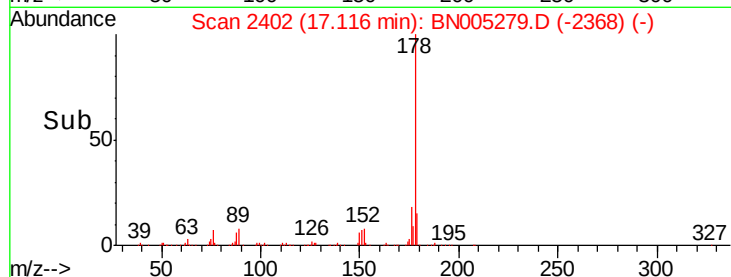
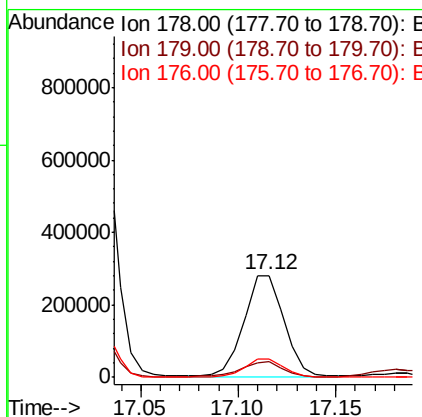
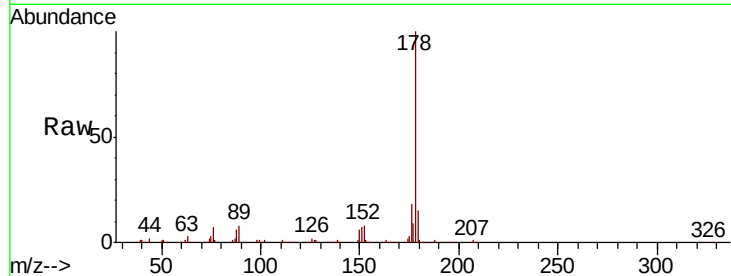
#71  
 Anthracene  
 Concen: 3.956 ng/ul  
 RT: 17.12 min Scan# 2402  
 Delta R.T. 0.00 min  
 Lab File: BN005279.D  
 Acq: 25 Apr 2019 08:35

Instrument :  
 BNA\_N  
 ClientSampled :  
 GAHQ8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.9  | 12.3  | 18.5  |
| 176     | 17.9  | 15.1  | 22.7  |

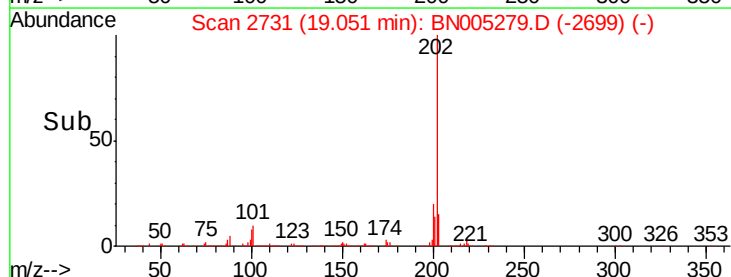
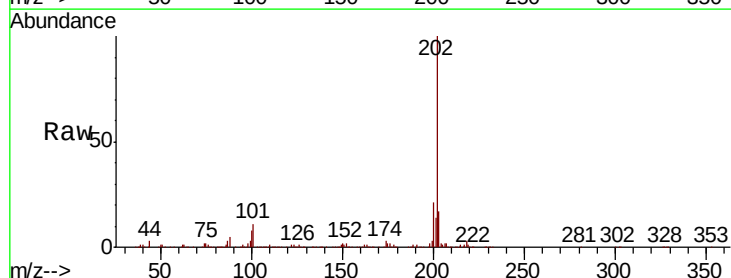
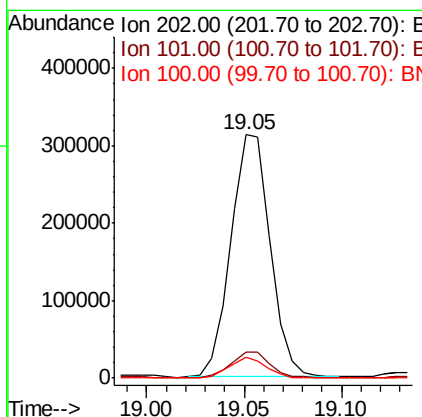
Manual Integrations  
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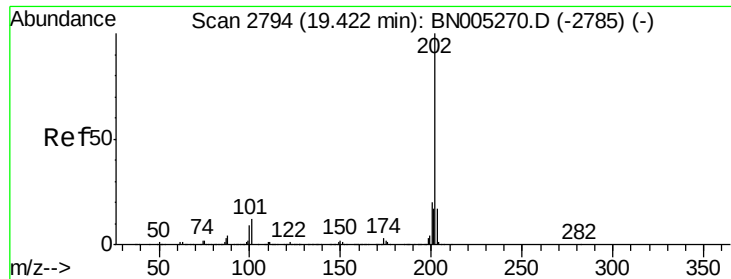
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#76  
 Fluoranthene  
 Concen: 3.938 ng/ul  
 RT: 19.05 min Scan# 2731  
 Delta R.T. -0.01 min  
 Lab File: BN005279.D  
 Acq: 25 Apr 2019 08:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 8.6   | 12.8  |
| 100     | 8.4   | 6.3   | 9.5   |





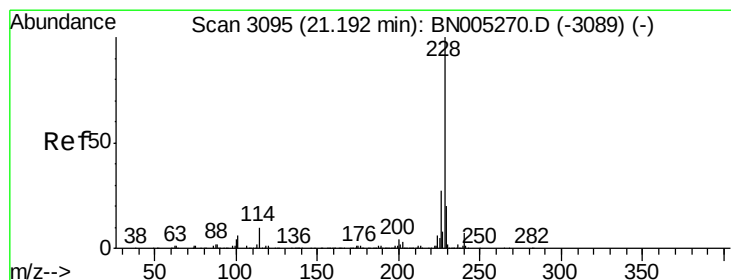
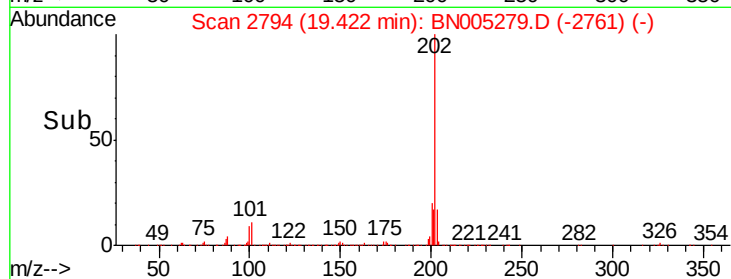
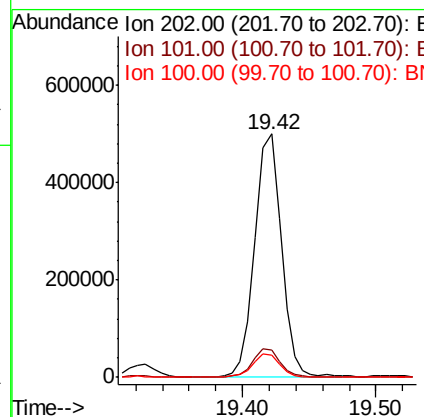
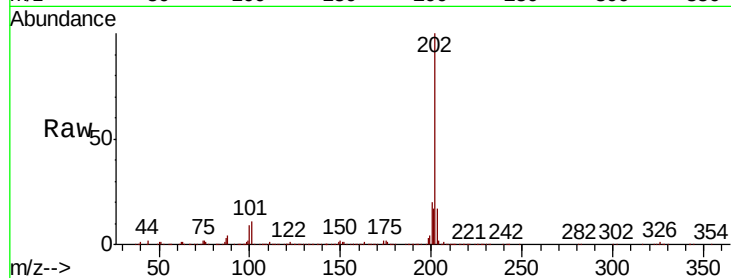
#79  
Pvrene  
Concen: 6.973 ng/ul  
RT: 19.42 min Scan# 2794  
Delta R.T. -0.01 min  
Lab File: BN005279.D  
Acq: 25 Apr 2019 08:35

Instrument :  
BNA\_N  
ClientSampleId :  
GAHQ8DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 11.4  | 10.3       | 15.5  |
| 100     | 9.3   | 7.9        | 11.9  |

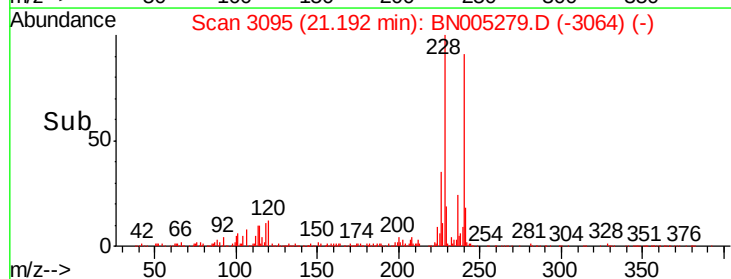
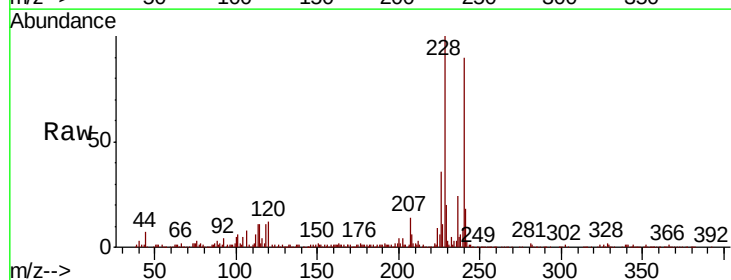
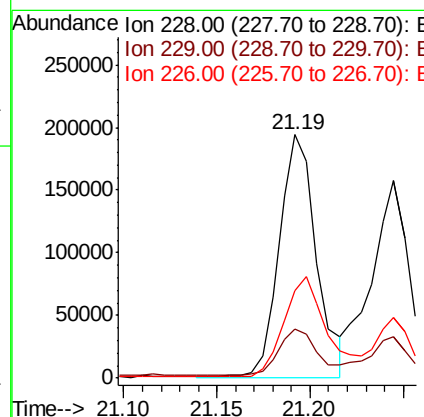
Manual Integrations  
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Sohil  
4/26/2019 11:25:25 PM

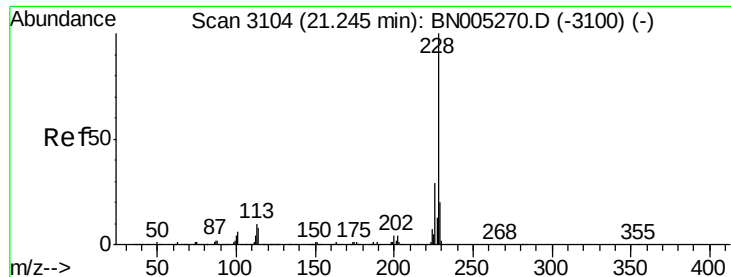


#82  
Benzo(a)anthracene  
Concen: 2.858 ng/ul m  
RT: 21.19 min Scan# 3095  
Delta R.T. -0.02 min  
Lab File: BN005279.D  
Acq: 25 Apr 2019 08:35

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.0  | 15.8       | 23.6  |
| 226     | 36.0  | 21.4       | 32.2# |







#84

Chrysene

Concen: 2.539 ng/ul

RT: 21.25 min Scan# 3104

Delta R.T. -0.02 min

Lab File: BN005279.D

Acq: 25 Apr 2019 08:35

Instrument :

BNA\_N

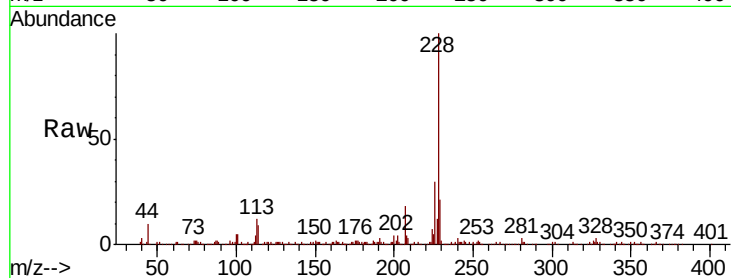
ClientSampled :

GAHQ8DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 223526 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 24.0  | 36.0   |
| 229       | 21.1  | 15.4  | 23.0   |

Manual Integrations  
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Sohil  
4/26/2019 11:25:25 PM

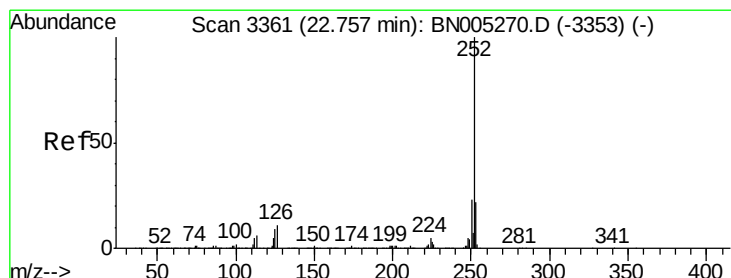
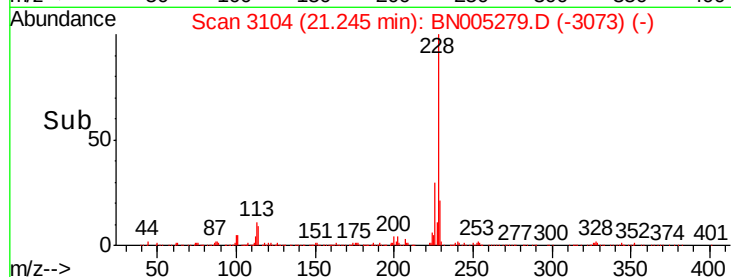
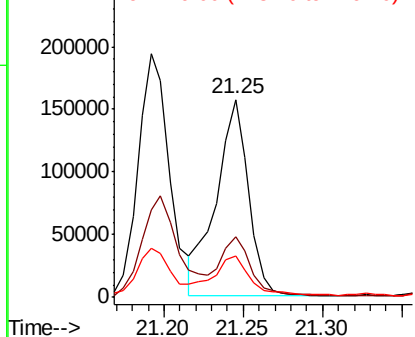


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 2.113 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. -0.02 min

Lab File: BN005279.D

Acq: 25 Apr 2019 08:35

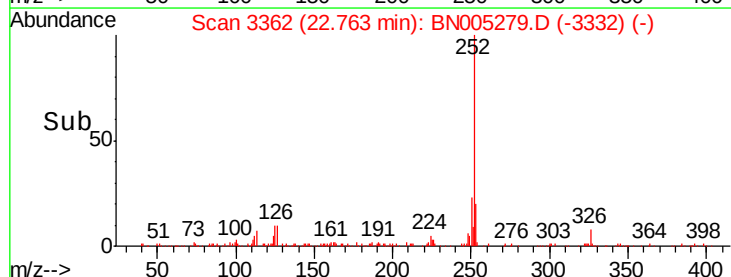
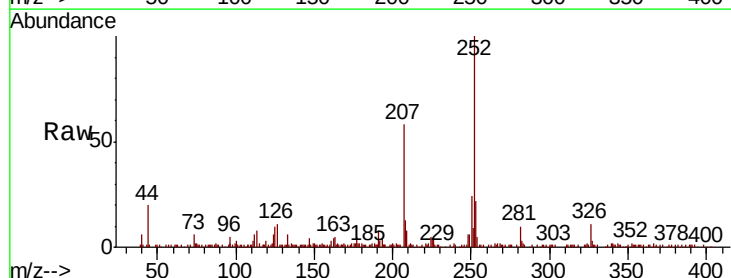
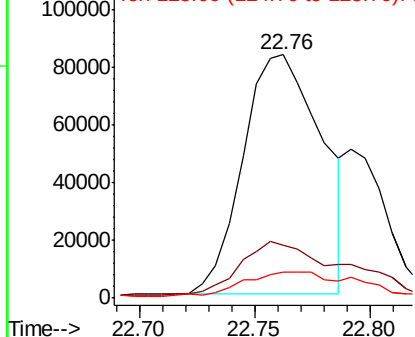
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 196800 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 17.7  | 26.5   |
| 125       | 10.4  | 8.4   | 12.6   |

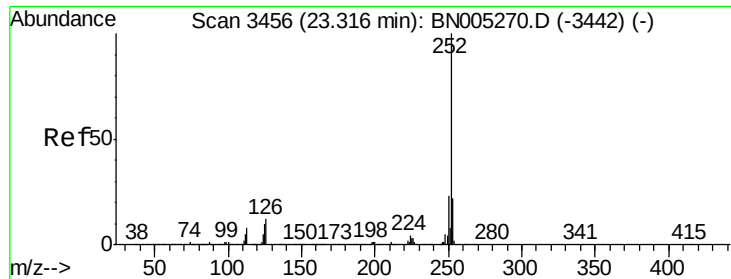
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 1.879 ng/ul

RT: 23.31 min Scan# 3455

Delta R.T. -0.03 min

Lab File: BN005279.D

Acq: 25 Apr 2019 08:35

Instrument :

BNA\_N

ClientSampleId :

GAHQ8DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 164510 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.7  | 17.3  | 25.9   |
| 125       | 10.6  | 8.6   | 13.0   |

Manual Integrations  
APPROVED

Sohil  
4/26/2019 11:25:25 PM

