

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050219\  
 Data File : BN005435.D  
 Acq On : 03 May 2019 03:04  
 Operator : JU/SJ  
 Sample : K2603-14 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ66

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.911       | 153           | 157         | 159          | rBV2     | 15565          | 18767         | 0.31%           | 0.042%        |
| 2         | 5.628       | 445           | 449         | 456          | rVB2     | 52455          | 84694         | 1.40%           | 0.191%        |
| 3         | 6.775       | 638           | 644         | 656          | rVB      | 168015         | 295812        | 4.89%           | 0.669%        |
| 4         | 6.940       | 666           | 672         | 681          | rVB      | 133538         | 220511        | 3.65%           | 0.498%        |
| 5         | 7.128       | 698           | 704         | 713          | rVB      | 183328         | 294902        | 4.88%           | 0.667%        |
| 6         | 7.258       | 718           | 726         | 735          | rBV2     | 61154          | 113333        | 1.87%           | 0.256%        |
| 7         | 7.334       | 735           | 739         | 747          | rVB4     | 16816          | 29753         | 0.49%           | 0.067%        |
| 8         | 7.593       | 776           | 783         | 793          | rBV      | 1336014        | 2203278       | 36.43%          | 4.980%        |
| 9         | 8.122       | 868           | 873         | 879          | rBV      | 30465          | 47566         | 0.79%           | 0.108%        |
| 10        | 8.293       | 895           | 902         | 914          | rBV2     | 213251         | 386170        | 6.38%           | 0.873%        |
| 11        | 8.734       | 971           | 977         | 988          | rVB      | 175297         | 306520        | 5.07%           | 0.693%        |
| 12        | 8.852       | 991           | 997         | 1005         | rBV4     | 19050          | 42735         | 0.71%           | 0.097%        |
| 13        | 8.958       | 1010          | 1015        | 1020         | rVB4     | 8554           | 16766         | 0.28%           | 0.038%        |
| 14        | 9.169       | 1046          | 1051        | 1059         | rVB4     | 15611          | 23208         | 0.38%           | 0.052%        |
| 15        | 9.340       | 1075          | 1080        | 1086         | rBV4     | 13994          | 22447         | 0.37%           | 0.051%        |
| 16        | 9.452       | 1093          | 1099        | 1107         | rBV      | 131885         | 234546        | 3.88%           | 0.530%        |
| 17        | 9.799       | 1152          | 1158        | 1163         | rVB3     | 14143          | 26265         | 0.43%           | 0.059%        |
| 18        | 9.863       | 1163          | 1169        | 1172         | rBV3     | 10917          | 18595         | 0.31%           | 0.042%        |
| 19        | 9.940       | 1172          | 1182        | 1185         | rVV      | 60245          | 110173        | 1.82%           | 0.249%        |
| 20        | 9.987       | 1185          | 1190        | 1201         | rVV      | 177716         | 376817        | 6.23%           | 0.852%        |
| 21        | 10.352      | 1244          | 1252        | 1267         | rBV      | 2016380        | 3444372       | 56.95%          | 7.785%        |
| 22        | 10.499      | 1270          | 1277        | 1292         | rBV2     | 96479          | 234074        | 3.87%           | 0.529%        |
| 23        | 10.687      | 1305          | 1309        | 1315         | rBV6     | 5817           | 12567         | 0.21%           | 0.028%        |
| 24        | 10.746      | 1315          | 1319        | 1324         | rVB4     | 4970           | 7709          | 0.13%           | 0.017%        |
| 25        | 10.846      | 1332          | 1336        | 1340         | rBV7     | 4355           | 6553          | 0.11%           | 0.015%        |
| 26        | 10.963      | 1351          | 1356        | 1360         | rBV5     | 8175           | 15662         | 0.26%           | 0.035%        |
| 27        | 11.040      | 1360          | 1369        | 1375         | rVV5     | 20398          | 42342         | 0.70%           | 0.096%        |
| 28        | 11.181      | 1389          | 1393        | 1394         | rBV3     | 5192           | 7407          | 0.12%           | 0.017%        |
| 29        | 11.434      | 1424          | 1436        | 1445         | rBV4     | 49188          | 161868        | 2.68%           | 0.366%        |
| 30        | 11.646      | 1468          | 1472        | 1475         | rBV6     | 8432           | 12524         | 0.21%           | 0.028%        |
| 31        | 11.687      | 1475          | 1479        | 1486         | rVB4     | 23007          | 41140         | 0.68%           | 0.093%        |
| 32        | 11.881      | 1501          | 1512        | 1517         | rBV4     | 70767          | 205923        | 3.40%           | 0.465%        |
| 33        | 12.093      | 1545          | 1548        | 1552         | rBV6     | 8830           | 14395         | 0.24%           | 0.033%        |
| 34        | 12.187      | 1558          | 1564        | 1568         | rBV9     | 9847           | 23096         | 0.38%           | 0.052%        |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
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|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 12.234 | 1569 | 1572 | 1577 | rVV7 | 8562    | 16300   | 0.27%   | 0.037%  |
| 36 | 12.299 | 1579 | 1583 | 1587 | rVB7 | 16646   | 25222   | 0.42%   | 0.057%  |
| 37 | 12.369 | 1589 | 1595 | 1600 | rBV8 | 19675   | 43557   | 0.72%   | 0.098%  |
| 38 | 12.422 | 1600 | 1604 | 1606 | rBV5 | 9631    | 13973   | 0.23%   | 0.032%  |
| 39 | 12.516 | 1615 | 1620 | 1624 | rBV7 | 11490   | 22439   | 0.37%   | 0.051%  |
| 40 | 12.710 | 1649 | 1653 | 1656 | rBV6 | 21868   | 39523   | 0.65%   | 0.089%  |
| 41 | 12.757 | 1659 | 1661 | 1667 | rVB7 | 34895   | 57084   | 0.94%   | 0.129%  |
| 42 | 12.828 | 1671 | 1673 | 1674 | rBV2 | 12816   | 9197    | 0.15%   | 0.021%  |
| 43 | 13.193 | 1731 | 1735 | 1741 | rVB4 | 45713   | 80710   | 1.33%   | 0.182%  |
| 44 | 13.640 | 1806 | 1811 | 1815 | rBV  | 468012  | 706016  | 11.67%  | 1.596%  |
| 45 | 13.687 | 1815 | 1819 | 1825 | rVB2 | 258090  | 450259  | 7.44%   | 1.018%  |
| 46 | 13.910 | 1852 | 1857 | 1860 | rBV  | 513848  | 796316  | 13.17%  | 1.800%  |
| 47 | 13.940 | 1860 | 1862 | 1868 | rVB  | 295689  | 398146  | 6.58%   | 0.900%  |
| 48 | 14.222 | 1904 | 1910 | 1918 | rBV2 | 2870969 | 4636856 | 76.67%  | 10.481% |
| 49 | 14.457 | 1947 | 1950 | 1958 | rVB7 | 75776   | 140942  | 2.33%   | 0.319%  |
| 50 | 15.104 | 2056 | 2060 | 2065 | rBV  | 146182  | 219064  | 3.62%   | 0.495%  |
| 51 | 15.222 | 2076 | 2080 | 2086 | rVB  | 708451  | 980090  | 16.20%  | 2.215%  |
| 52 | 16.557 | 2304 | 2307 | 2312 | rVB  | 177333  | 236271  | 3.91%   | 0.534%  |
| 53 | 16.981 | 2373 | 2379 | 2388 | rBV  | 3722934 | 5554035 | 91.83%  | 12.554% |
| 54 | 17.075 | 2391 | 2395 | 2399 | rBV2 | 714487  | 970064  | 16.04%  | 2.193%  |
| 55 | 17.898 | 2532 | 2535 | 2540 | rBV5 | 242358  | 343130  | 5.67%   | 0.776%  |
| 56 | 18.928 | 2707 | 2710 | 2719 | rVB  | 462931  | 686250  | 11.35%  | 1.551%  |
| 57 | 19.392 | 2785 | 2789 | 2791 | rBV  | 813814  | 1166385 | 19.29%  | 2.636%  |
| 58 | 19.416 | 2791 | 2793 | 2803 | rVB  | 879759  | 1184528 | 19.59%  | 2.677%  |
| 59 | 20.222 | 2927 | 2930 | 2935 | rVB  | 644847  | 779979  | 12.90%  | 1.763%  |
| 60 | 21.210 | 3092 | 3098 | 3110 | rVB  | 4135964 | 6048084 | 100.00% | 13.671% |
| 61 | 22.775 | 3357 | 3364 | 3373 | rVB2 | 408338  | 1080174 | 17.86%  | 2.442%  |
| 62 | 23.216 | 3435 | 3439 | 3444 | rBV  | 371400  | 650021  | 10.75%  | 1.469%  |
| 63 | 23.269 | 3444 | 3448 | 3452 | rVV  | 516949  | 943950  | 15.61%  | 2.134%  |
| 64 | 23.322 | 3452 | 3457 | 3465 | rVV2 | 554783  | 1162843 | 19.23%  | 2.628%  |
| 65 | 23.410 | 3465 | 3472 | 3491 | rVB  | 2565222 | 5170430 | 85.49%  | 11.687% |
| 66 | 23.951 | 3561 | 3564 | 3573 | rVB  | 281767  | 527344  | 8.72%   | 1.192%  |

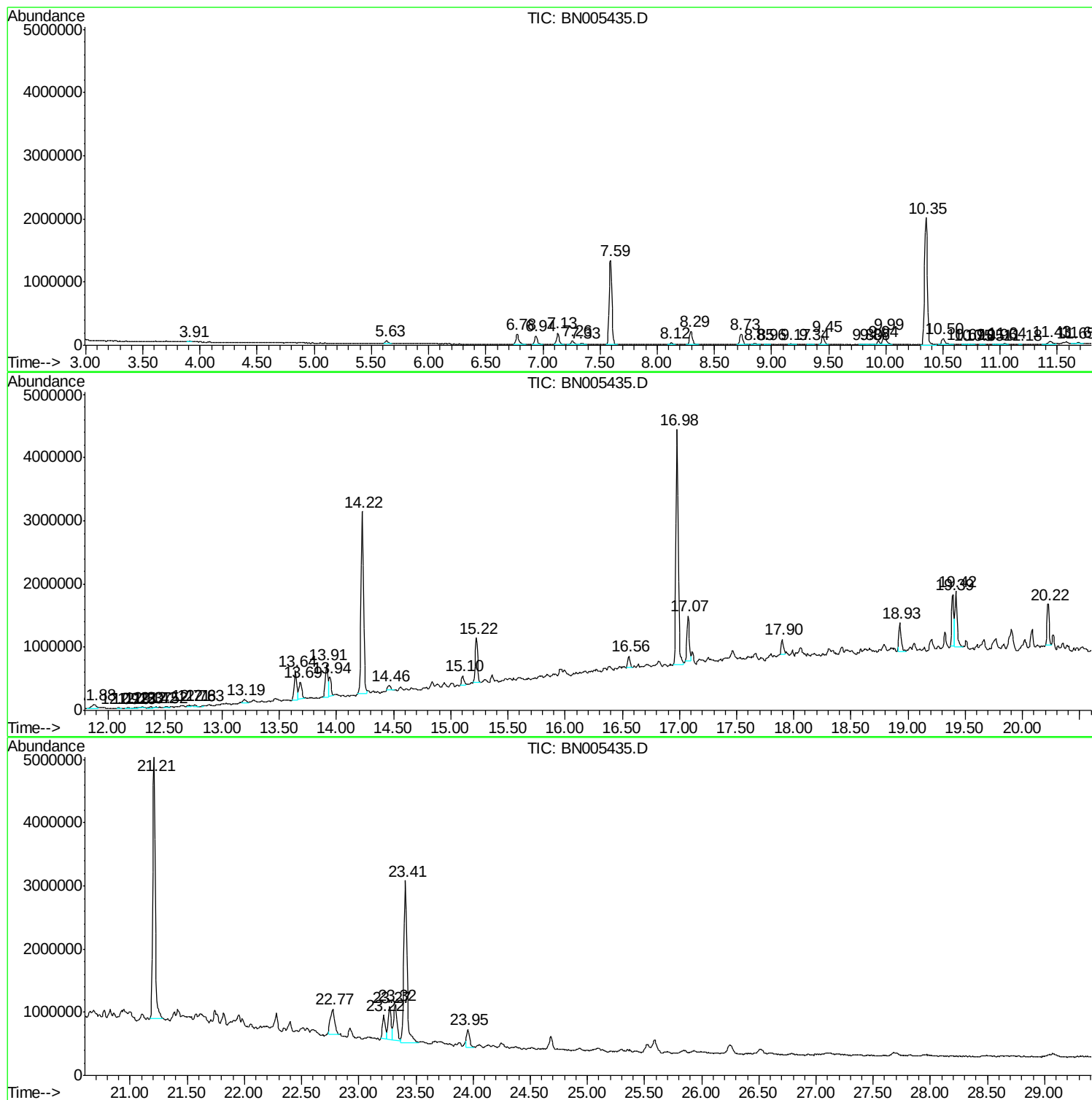
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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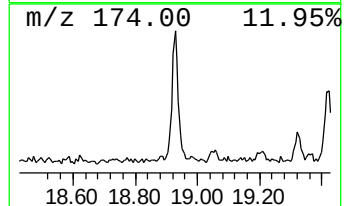
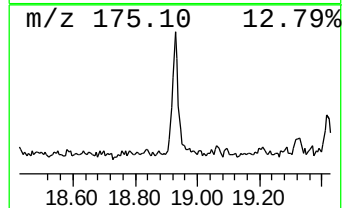
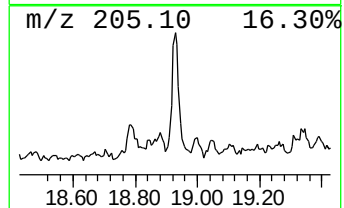
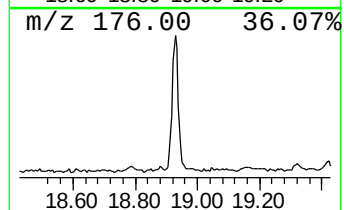
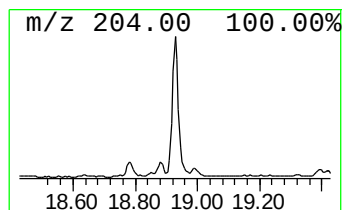
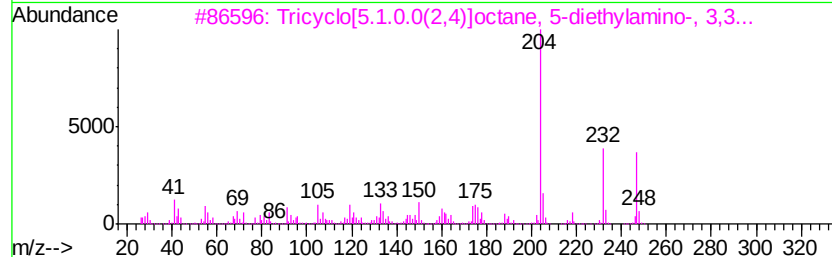
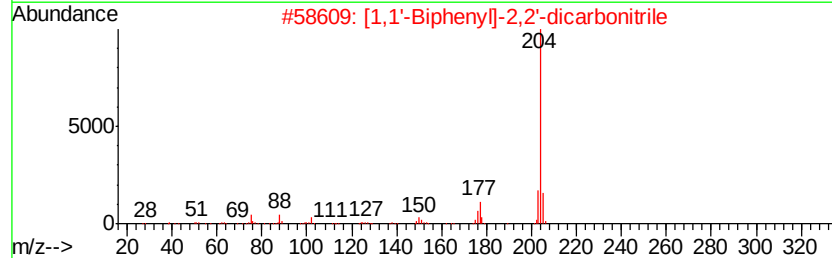
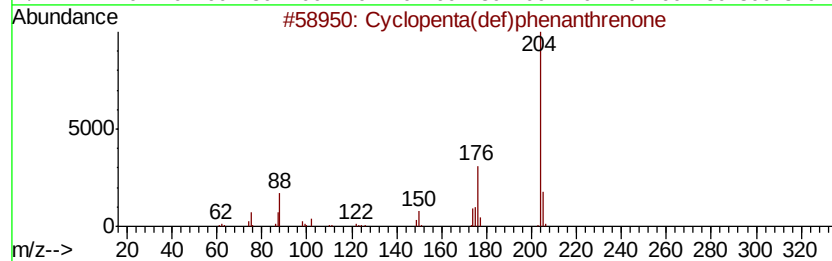
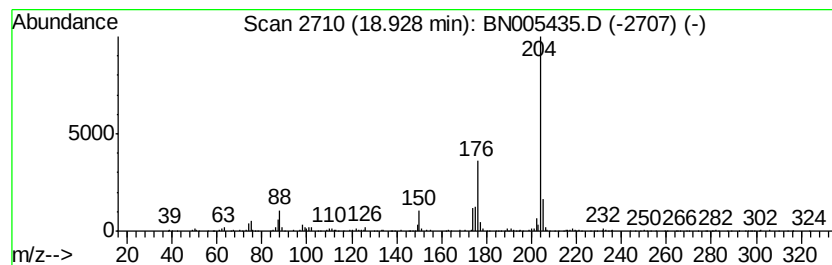
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Cyclopenta(def)phenanthrenone Concentration Rank 3

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.       |              |      |
|---------|------------|-------------------------------------|------------------|------------|--------------|------|
| 18.93   | 2.47 ng/ul | 686250                              | Phenanthrene-d10 | 16.98      |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm    | CAS#         | Qual |
| 1       |            | Cyclopenta(def)phenanthrenone       | 204              | C15H8O     | 005737-13-3  | 95   |
| 2       |            | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204              | C14H8N2    | 004341-02-0  | 59   |
| 3       |            | Tricyclo[5.1.0.0(2,4)]octane, 5-... | 247              | C17H29N    | 1000063-59-3 | 59   |
| 4       |            | 3'-Carboxybenzo[1',2',-b]-1,4-di... | 204              | C11H12N2O2 | 138023-41-3  | 58   |
| 5       |            | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204              | C14H8N2    | 001591-30-6  | 52   |



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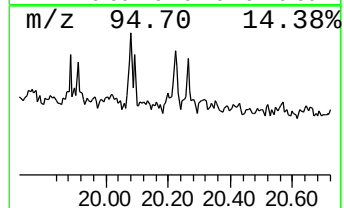
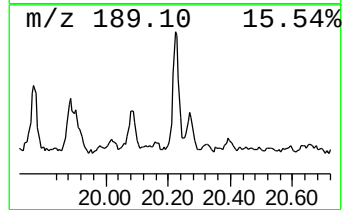
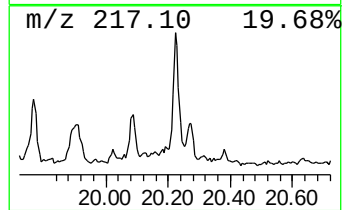
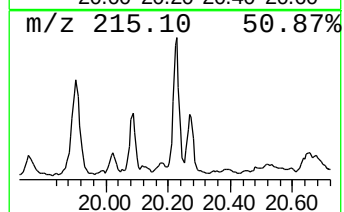
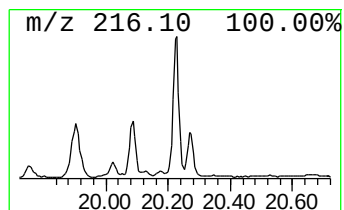
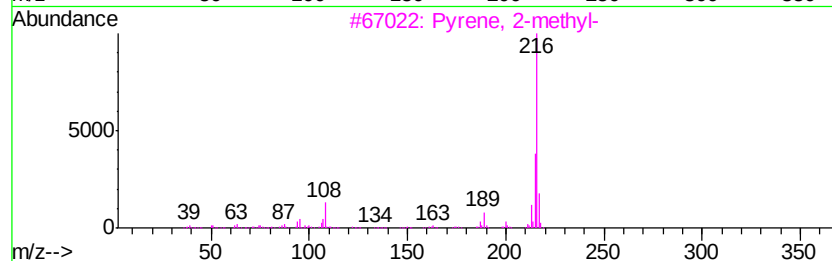
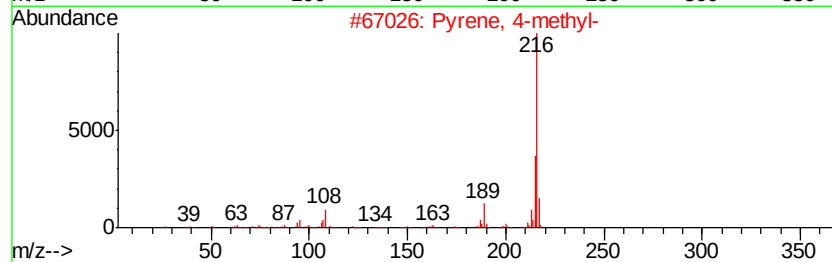
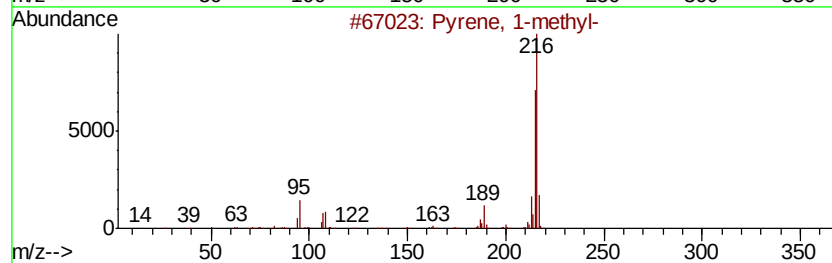
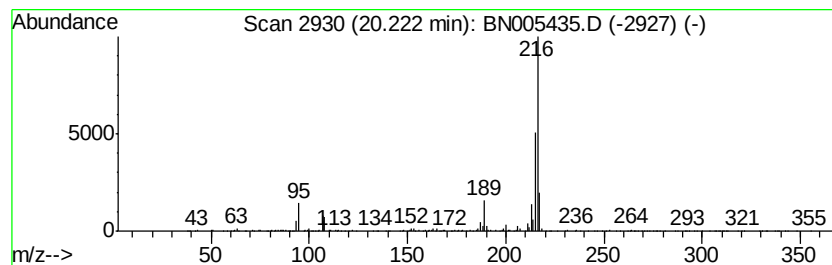
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Pyrene, 1-methyl- Concentration Rank 1

| R.T.    | EstConc           | Area         | Relative to ISTD | R.T.           |
|---------|-------------------|--------------|------------------|----------------|
| 20.22   | 2.58 ng/ul        | 779979       | Chrysene-d12     | 21.21          |
| Hit# of | 5                 | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Pyrene, 1-methyl- | 216          | C17H12           | 002381-21-7 96 |
| 2       | Pyrene, 4-methyl- | 216          | C17H12           | 003353-12-6 94 |
| 3       | Pyrene, 2-methyl- | 216          | C17H12           | 003442-78-2 94 |
| 4       | Pyrene, 2-methyl- | 216          | C17H12           | 003442-78-2 94 |
| 5       | Pyrene, 4-methyl- | 216          | C17H12           | 003353-12-6 90 |



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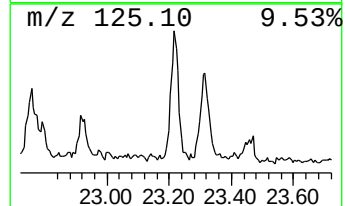
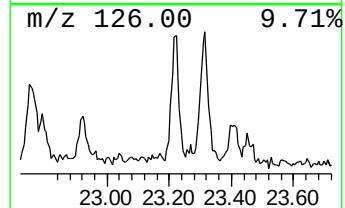
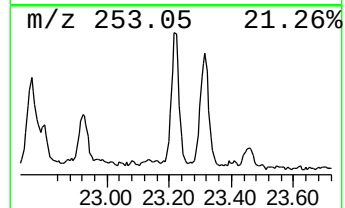
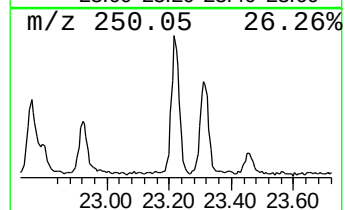
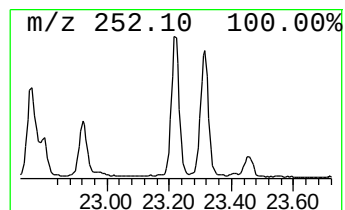
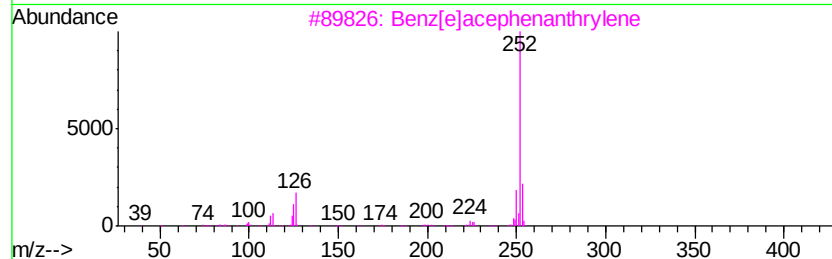
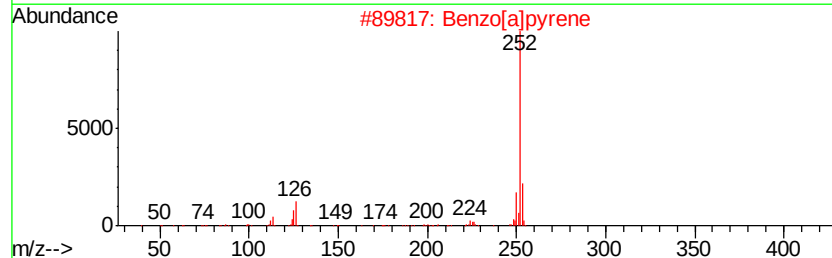
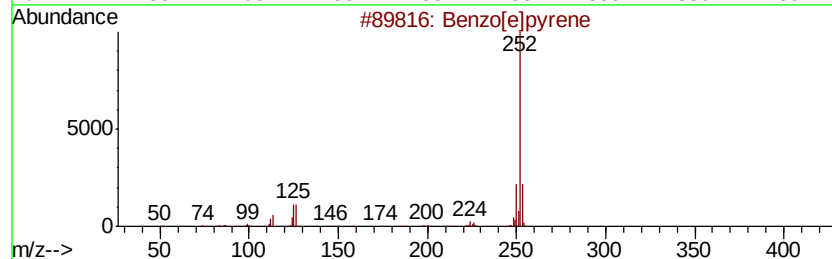
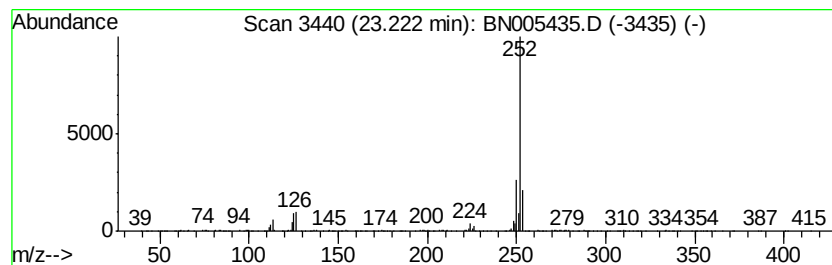
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzo[e]pyrene Concentration Rank 2

| R.T.      | EstConc                   | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------|--------|------------------|-------------|------|
| 23.22     | 2.51 ng/ul                | 650021 | Perylene-d12     | 23.41       |      |
| Hit# of 5 | Tentative ID              | MW     | MolForm          | CAS#        | Qual |
| 1         | Benzo[e]pyrene            | 252    | C20H12           | 000192-97-2 | 98   |
| 2         | Benzo[a]pyrene            | 252    | C20H12           | 000050-32-8 | 94   |
| 3         | Benzo[e]acephenanthrylene | 252    | C20H12           | 000205-99-2 | 93   |
| 4         | Benzo[e]pyrene            | 252    | C20H12           | 000192-97-2 | 93   |
| 5         | Benzo[j]fluoranthene      | 252    | C20H12           | 000205-82-3 | 93   |



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Quant Title : SVOA CALIBRATION

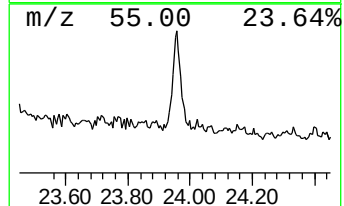
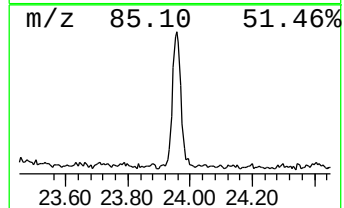
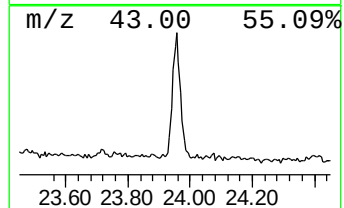
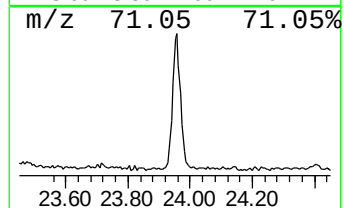
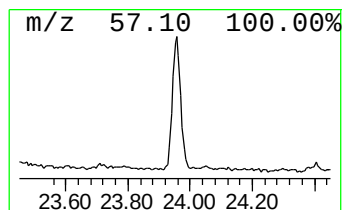
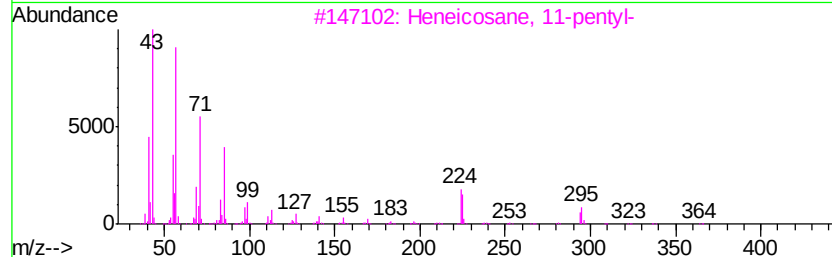
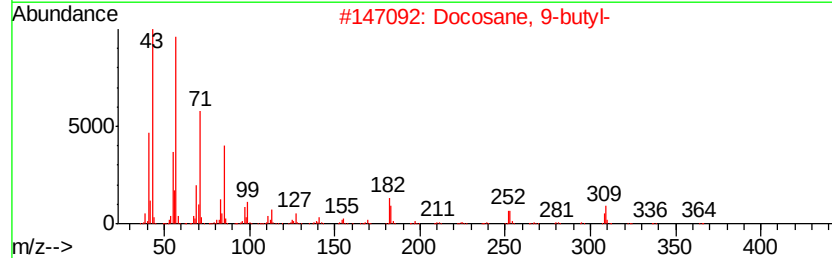
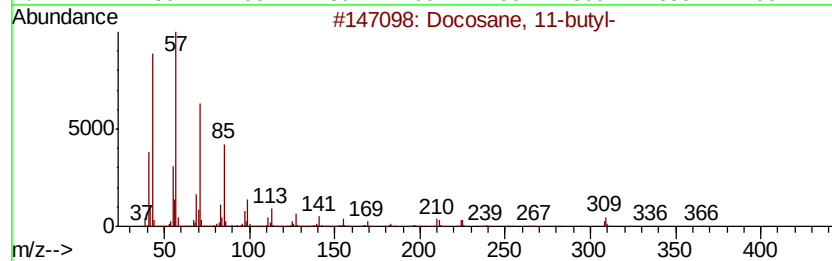
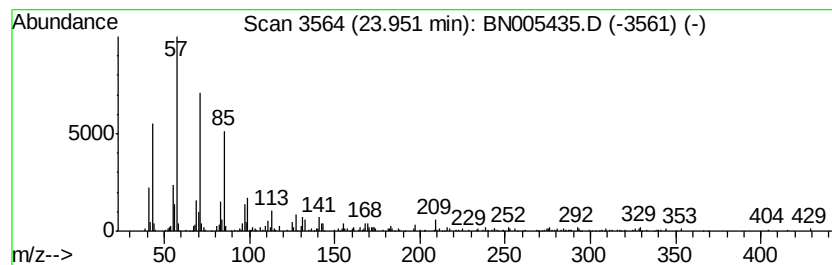
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.95 | 2.04 ng/ul | 527344 | Perylene-d12     | 23.41 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Docosane, 11-butyl-     | 366 | C26H54  | 013475-76-8 | 93   |
| 2    |    | Docosane, 9-butyl-      | 366 | C26H54  | 055282-14-9 | 93   |
| 3    |    | Heneicosane, 11-pentyl- | 366 | C26H54  | 014739-72-1 | 93   |
| 4    |    | Tetratriacontane        | 479 | C34H70  | 014167-59-0 | 90   |
| 5    |    | Heptadecane, 9-octyl-   | 352 | C25H52  | 007225-64-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050219\  
Data File : BN005435.D  
Acq On : 03 May 2019 03:04  
Operator : JU/SJ  
Sample : K2603-14 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ66

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Cyclopenta(def)ph... | 18.93 | 2.5     | ng/ul | 686250   | 4                     | 16.98 | 5554040 | 20.0 |
| Pyrene, 1-methyl-    | 20.22 | 2.6     | ng/ul | 779979   | 5                     | 21.21 | 6048080 | 20.0 |
| Benzo[e]pyrene       | 23.22 | 2.5     | ng/ul | 650021   | 6                     | 23.41 | 5170430 | 20.0 |
| (DEL) Alkane: Str... | 23.95 | 2.0     | ng/ul | 527344   | 6                     | 23.41 | 5170430 | 20.0 |