

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
 Data File : BM018334.D  
 Acq On : 20 Dec 2018 17:32  
 Operator : JU/SJ  
 Sample : J6426-11  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 P001-SS013A-3036-01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % 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\_M\METHODS\8270-BM121518.M

Title : ASP BNA STANDARDS FOR 5 POINT 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         | 3.787       | 144           | 153         | 165          | rBV2     | 48195587       | 76752545      | 23.84%          | 5.145%        |
| 2         | 5.057       | 361           | 369         | 381          | rVV      | 23610144       | 50090199      | 15.56%          | 3.358%        |
| 3         | 5.240       | 382           | 400         | 406          | rVB3     | 72899542       | 321933546     | 100.00%         | 21.580%       |
| 4         | 5.569       | 444           | 456         | 460          | rBV2     | 54450260       | 117306082     | 36.44%          | 7.863%        |
| 5         | 6.475       | 600           | 610         | 615          | rBV2     | 3580392        | 5823343       | 1.81%           | 0.390%        |
| 6         | 6.587       | 623           | 629         | 630          | rVV      | 7757367        | 10760529      | 3.34%           | 0.721%        |
| 7         | 6.640       | 630           | 638         | 642          | rVV2     | 57260417       | 113351335     | 35.21%          | 7.598%        |
| 8         | 6.716       | 643           | 651         | 661          | rVB2     | 5264003        | 12410537      | 3.85%           | 0.832%        |
| 9         | 6.881       | 670           | 679         | 685          | rBV      | 2739859        | 5144211       | 1.60%           | 0.345%        |
| 10        | 7.034       | 698           | 705         | 711          | rVB      | 4063309        | 6524362       | 2.03%           | 0.437%        |
| 11        | 7.104       | 711           | 717         | 720          | rBV      | 5895128        | 9213077       | 2.86%           | 0.618%        |
| 12        | 7.140       | 720           | 723         | 729          | rVB      | 11930860       | 16591313      | 5.15%           | 1.112%        |
| 13        | 7.522       | 779           | 788         | 795          | rVB2     | 5005795        | 8821039       | 2.74%           | 0.591%        |
| 14        | 7.610       | 795           | 803         | 808          | rBV2     | 4004102        | 9762204       | 3.03%           | 0.654%        |
| 15        | 7.740       | 819           | 825         | 830          | rBV3     | 1880729        | 3299106       | 1.02%           | 0.221%        |
| 16        | 7.798       | 830           | 835         | 839          | rBV      | 2558259        | 4066743       | 1.26%           | 0.273%        |
| 17        | 8.016       | 865           | 872         | 876          | rVV2     | 1935978        | 4261018       | 1.32%           | 0.286%        |
| 18        | 8.116       | 882           | 889         | 894          | rBV3     | 3741380        | 6869120       | 2.13%           | 0.460%        |
| 19        | 8.569       | 961           | 966         | 973          | rVB      | 2800786        | 4675850       | 1.45%           | 0.313%        |
| 20        | 8.645       | 973           | 979         | 983          | rBV      | 2996049        | 5292633       | 1.64%           | 0.355%        |
| 21        | 8.698       | 983           | 988         | 995          | rVB      | 11119014       | 16540624      | 5.14%           | 1.109%        |
| 22        | 9.034       | 1037          | 1045        | 1050         | rBV      | 38117650       | 62289106      | 19.35%          | 4.175%        |
| 23        | 9.092       | 1050          | 1055        | 1060         | rVV2     | 2326565        | 3729933       | 1.16%           | 0.250%        |
| 24        | 9.151       | 1060          | 1065        | 1072         | rVB2     | 2729249        | 4819802       | 1.50%           | 0.323%        |
| 25        | 10.128      | 1222          | 1231        | 1241         | rBV      | 8863831        | 17283150      | 5.37%           | 1.159%        |
| 26        | 10.234      | 1241          | 1249        | 1256         | rVV2     | 14985419       | 24856630      | 7.72%           | 1.666%        |
| 27        | 10.310      | 1256          | 1262        | 1274         | rVV      | 8834666        | 19369173      | 6.02%           | 1.298%        |
| 28        | 10.410      | 1274          | 1279        | 1285         | rVV      | 3746297        | 5708973       | 1.77%           | 0.383%        |
| 29        | 10.639      | 1310          | 1318        | 1328         | rBV2     | 5274033        | 10365452      | 3.22%           | 0.695%        |
| 30        | 11.081      | 1387          | 1393        | 1399         | rBV4     | 1695286        | 3231325       | 1.00%           | 0.217%        |
| 31        | 11.163      | 1401          | 1407        | 1413         | rVB2     | 2634620        | 4587049       | 1.42%           | 0.307%        |
| 32        | 11.275      | 1420          | 1426        | 1430         | rBV      | 5472637        | 9153515       | 2.84%           | 0.614%        |
| 33        | 11.510      | 1460          | 1466        | 1473         | rVB      | 13915299       | 21577352      | 6.70%           | 1.446%        |
| 34        | 11.698      | 1489          | 1498        | 1506         | rVV      | 18184084       | 29222446      | 9.08%           | 1.959%        |

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 P001-SS013A-3036-01

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % 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\_M\METHODS\8270-BM121518.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |          |          |        |        |
|----|--------|------|------|------|------|----------|----------|--------|--------|
| 35 | 11.933 | 1528 | 1538 | 1543 | rVB2 | 6994203  | 12936237 | 4.02%  | 0.867% |
| 36 | 12.157 | 1568 | 1576 | 1584 | rVB  | 3826860  | 7876713  | 2.45%  | 0.528% |
| 37 | 12.333 | 1598 | 1606 | 1610 | rBV6 | 1302402  | 3336266  | 1.04%  | 0.224% |
| 38 | 12.380 | 1610 | 1614 | 1621 | rVB3 | 2047760  | 4292957  | 1.33%  | 0.288% |
| 39 | 12.522 | 1633 | 1638 | 1642 | rBV2 | 2438383  | 3945402  | 1.23%  | 0.264% |
| 40 | 12.663 | 1657 | 1662 | 1667 | rVB  | 5087936  | 7033758  | 2.18%  | 0.471% |
| 41 | 12.757 | 1673 | 1678 | 1684 | rVB  | 5345114  | 7529430  | 2.34%  | 0.505% |
| 42 | 12.933 | 1703 | 1708 | 1710 | rBV  | 5790147  | 8651113  | 2.69%  | 0.580% |
| 43 | 12.975 | 1710 | 1715 | 1720 | rVB2 | 22234404 | 33175363 | 10.31% | 2.224% |
| 44 | 13.192 | 1749 | 1752 | 1757 | rVB2 | 2748362  | 4074275  | 1.27%  | 0.273% |
| 45 | 13.304 | 1764 | 1771 | 1773 | rBV  | 3968582  | 7228401  | 2.25%  | 0.485% |
| 46 | 13.469 | 1793 | 1799 | 1804 | rBV  | 5708011  | 11410529 | 3.54%  | 0.765% |
| 47 | 13.522 | 1804 | 1808 | 1810 | rVV  | 4243665  | 6607469  | 2.05%  | 0.443% |
| 48 | 13.545 | 1810 | 1812 | 1817 | rVB  | 7660064  | 9375336  | 2.91%  | 0.628% |
| 49 | 13.627 | 1818 | 1826 | 1830 | rBV3 | 7405892  | 14013053 | 4.35%  | 0.939% |
| 50 | 13.675 | 1830 | 1834 | 1837 | rBV2 | 2719016  | 3776812  | 1.17%  | 0.253% |
| 51 | 14.069 | 1893 | 1901 | 1904 | rBV  | 21948928 | 31491216 | 9.78%  | 2.111% |
| 52 | 14.145 | 1908 | 1914 | 1921 | rVB4 | 2537221  | 6825800  | 2.12%  | 0.458% |
| 53 | 14.369 | 1947 | 1952 | 1961 | rVB  | 2680286  | 7549293  | 2.34%  | 0.506% |
| 54 | 14.474 | 1963 | 1970 | 1973 | rBV3 | 2275760  | 4581575  | 1.42%  | 0.307% |
| 55 | 14.563 | 1980 | 1985 | 1989 | rVB  | 4742276  | 6874622  | 2.14%  | 0.461% |
| 56 | 14.639 | 1992 | 1998 | 2002 | rVV2 | 2771351  | 4728399  | 1.47%  | 0.317% |
| 57 | 14.680 | 2002 | 2005 | 2014 | rVB3 | 4998008  | 7059404  | 2.19%  | 0.473% |
| 58 | 14.933 | 2043 | 2048 | 2054 | rBV3 | 2452945  | 4891040  | 1.52%  | 0.328% |
| 59 | 15.027 | 2059 | 2064 | 2068 | rVB  | 20395138 | 27394722 | 8.51%  | 1.836% |
| 60 | 15.427 | 2126 | 2132 | 2137 | rVB  | 7191443  | 10960024 | 3.40%  | 0.735% |
| 61 | 15.580 | 2154 | 2158 | 2162 | rBV2 | 2554051  | 4082580  | 1.27%  | 0.274% |
| 62 | 15.627 | 2162 | 2166 | 2169 | rVV3 | 3971516  | 7170595  | 2.23%  | 0.481% |
| 63 | 15.663 | 2169 | 2172 | 2178 | rVV  | 5743470  | 8596386  | 2.67%  | 0.576% |
| 64 | 15.727 | 2179 | 2183 | 2194 | rVB5 | 1198680  | 3359877  | 1.04%  | 0.225% |
| 65 | 15.898 | 2206 | 2212 | 2226 | rBV2 | 20713347 | 46189337 | 14.35% | 3.096% |
| 66 | 16.686 | 2341 | 2346 | 2350 | rBV  | 14203751 | 19121553 | 5.94%  | 1.282% |
| 67 | 16.733 | 2350 | 2354 | 2358 | rVB  | 5818207  | 7941183  | 2.47%  | 0.532% |
| 68 | 16.957 | 2389 | 2392 | 2394 | rVV  | 2438085  | 3300530  | 1.03%  | 0.221% |
| 69 | 16.986 | 2394 | 2397 | 2406 | rVB  | 4233605  | 7018252  | 2.18%  | 0.470% |
| 70 | 17.104 | 2412 | 2417 | 2423 | rBV2 | 7162136  | 11116326 | 3.45%  | 0.745% |
| 71 | 17.427 | 2467 | 2472 | 2477 | rVB  | 12185518 | 15570180 | 4.84%  | 1.044% |

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Misc :  
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Instrument :  
BNA\_M  
ClientSampleId :  
P001-SS013A-3036-01

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM121518.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |          |       |        |
|----|--------|------|------|------|------|---------|----------|-------|--------|
| 72 | 17.839 | 2538 | 2542 | 2549 | rVB4 | 3510856 | 6424013  | 2.00% | 0.431% |
| 73 | 18.010 | 2568 | 2571 | 2577 | rVB3 | 2165643 | 3469243  | 1.08% | 0.233% |
| 74 | 18.115 | 2585 | 2589 | 2594 | rVB  | 8618435 | 10379768 | 3.22% | 0.696% |
| 75 | 18.757 | 2695 | 2698 | 2705 | rVB  | 5634972 | 7464561  | 2.32% | 0.500% |
| 76 | 19.133 | 2758 | 2762 | 2766 | rVB2 | 2438845 | 3346485  | 1.04% | 0.224% |
| 77 | 19.351 | 2795 | 2799 | 2802 | rBV2 | 2976356 | 3427589  | 1.06% | 0.230% |
| 78 | 19.568 | 2832 | 2836 | 2843 | rVB  | 7918381 | 11713012 | 3.64% | 0.785% |
| 79 | 19.851 | 2880 | 2884 | 2887 | rBV  | 3664274 | 4345779  | 1.35% | 0.291% |
| 80 | 20.133 | 2929 | 2932 | 2936 | rVB  | 5154658 | 5943106  | 1.85% | 0.398% |
| 81 | 20.192 | 2938 | 2942 | 2950 | rVV6 | 1851841 | 3938128  | 1.22% | 0.264% |
| 82 | 20.598 | 3008 | 3011 | 3018 | rVB2 | 3043089 | 4006973  | 1.24% | 0.269% |
| 83 | 21.062 | 3087 | 3090 | 3097 | rVB  | 3533844 | 4438850  | 1.38% | 0.298% |
| 84 | 21.162 | 3104 | 3107 | 3111 | rVB2 | 5181809 | 6138712  | 1.91% | 0.411% |

Sum of corrected areas: 1491805549



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ClientSampleId :  
P001-SS013A-3036-01

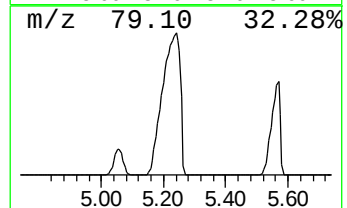
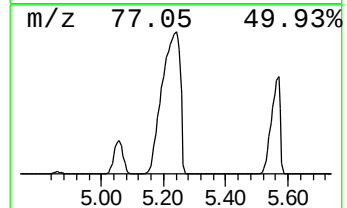
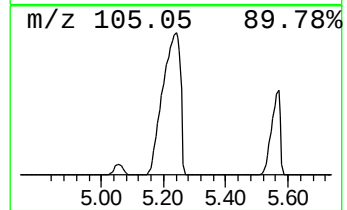
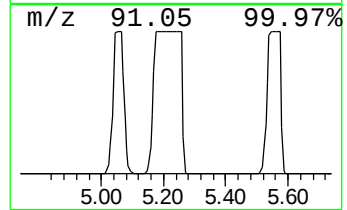
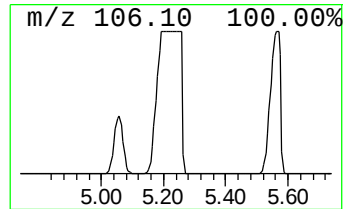
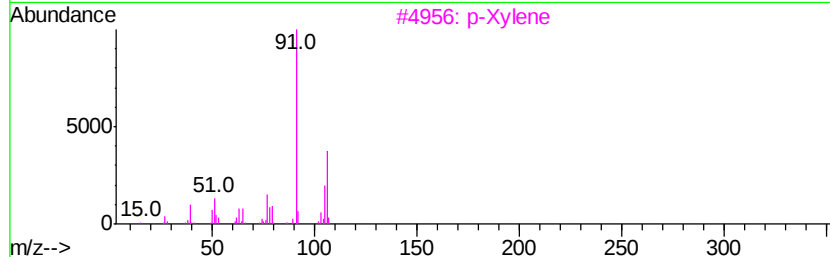
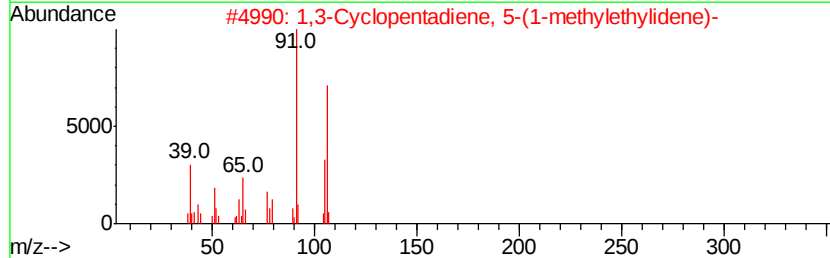
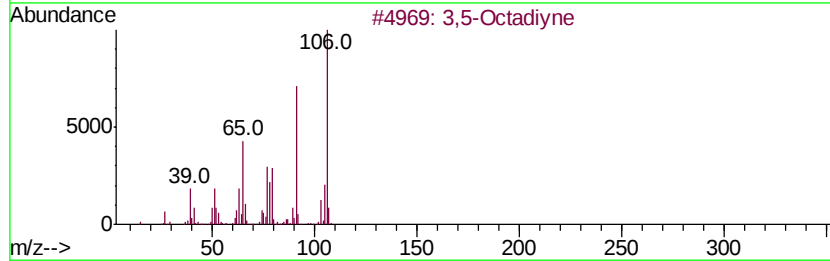
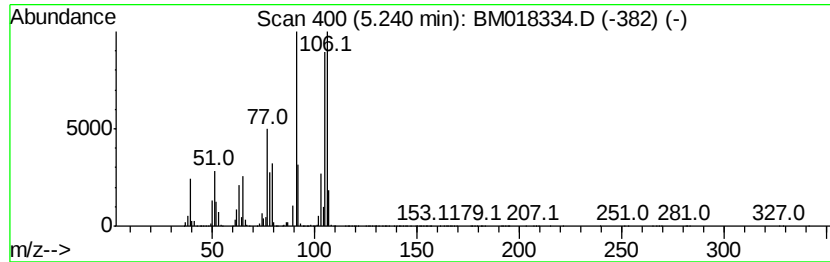
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 3,5-Octadiyne Concentration Rank 1

| R.T. | EstConc   | Area      | Relative to ISTD       | R.T. |
|------|-----------|-----------|------------------------|------|
| 5.24 | 729.92 ng | 321934000 | 1,4-Dichlorobenzene-d4 | 7.49 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3,5-Octadiyne                       | 106 | C8H10   | 016387-70-5 | 62   |
| 2    |    | 1,3-Cyclopentadiene, 5-(1-methyl... | 106 | C8H10   | 002175-91-9 | 58   |
| 3    |    | p-Xylene                            | 106 | C8H10   | 000106-42-3 | 58   |
| 4    |    | Cyclopentene, 1-ethenyl-3-methyl... | 106 | C8H10   | 061142-07-2 | 58   |
| 5    |    | o-Xylene                            | 106 | C8H10   | 000095-47-6 | 53   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

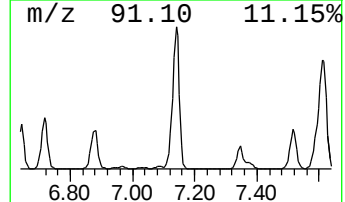
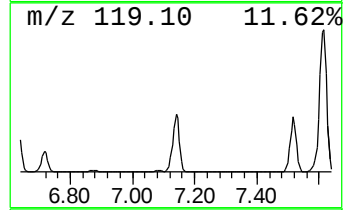
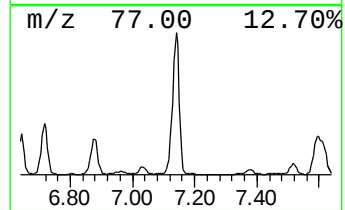
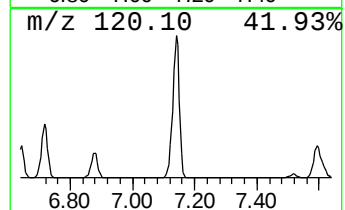
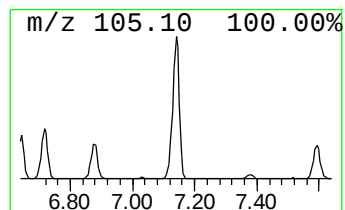
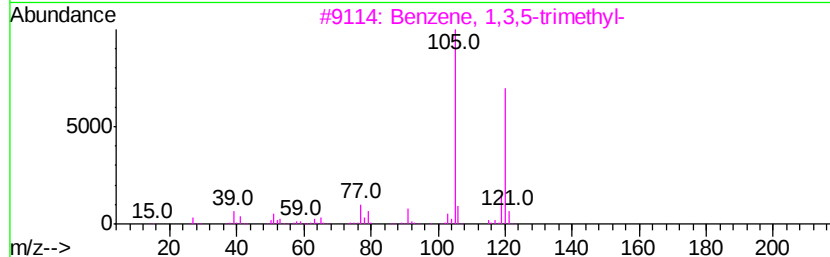
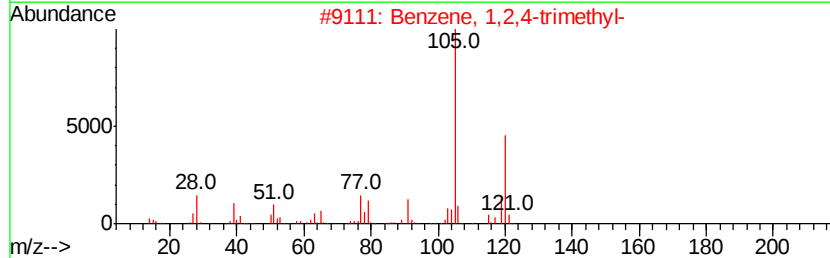
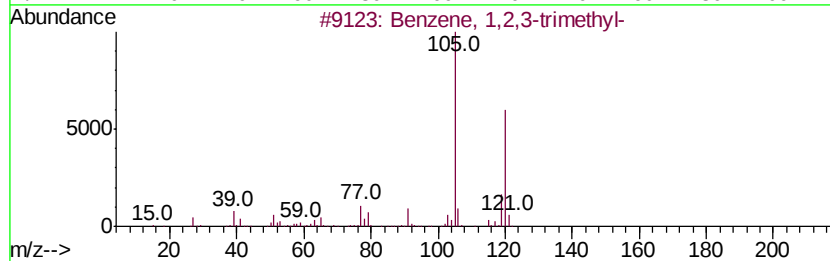
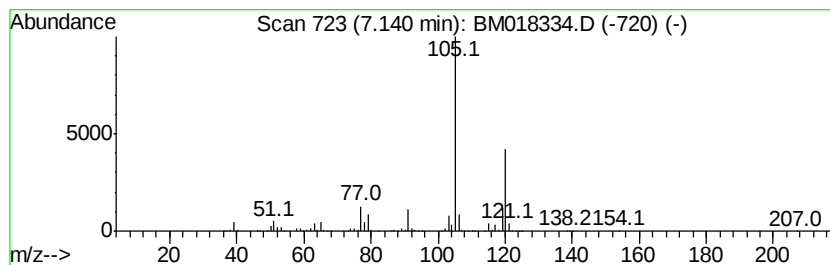
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1,2,3-trimethyl- Concentration Rank 17

| R.T. | EstConc  | Area     | Relative to ISTD       | R.T. |
|------|----------|----------|------------------------|------|
| 7.14 | 37.62 ng | 16591300 | 1,4-Dichlorobenzene-d4 | 7.49 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 95   |
| 2    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 94   |
| 3    |    | Benzene, 1,3,5-trimethyl-  | 120 | C9H12   | 000108-67-8 | 91   |
| 4    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 90   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 90   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

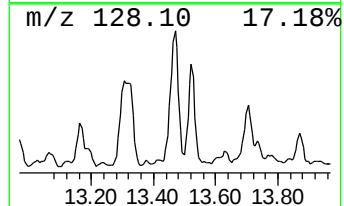
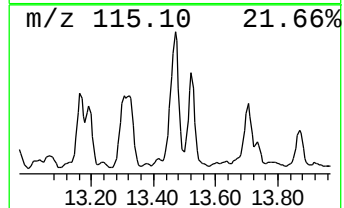
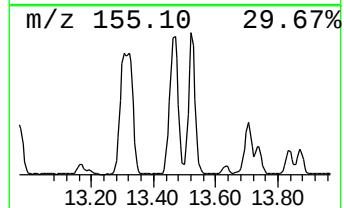
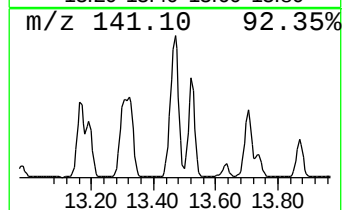
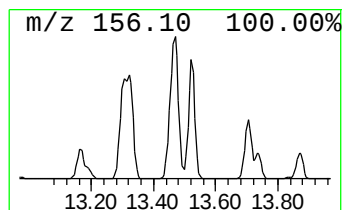
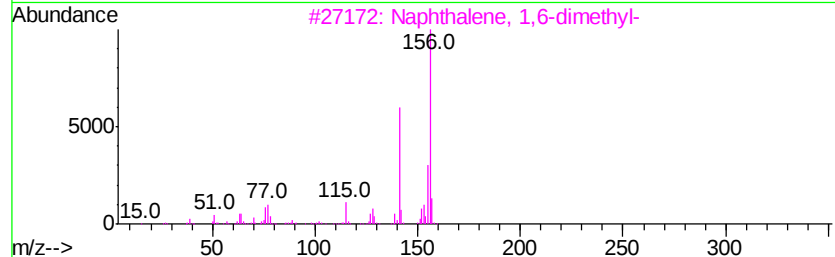
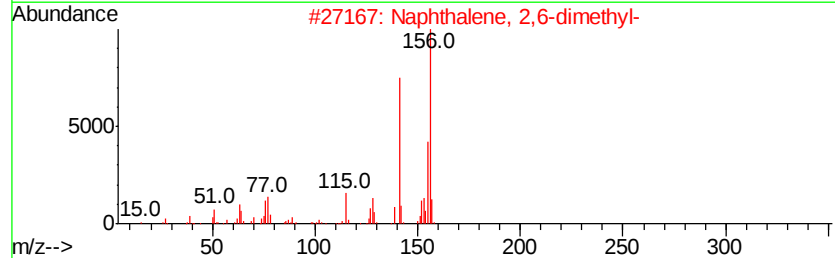
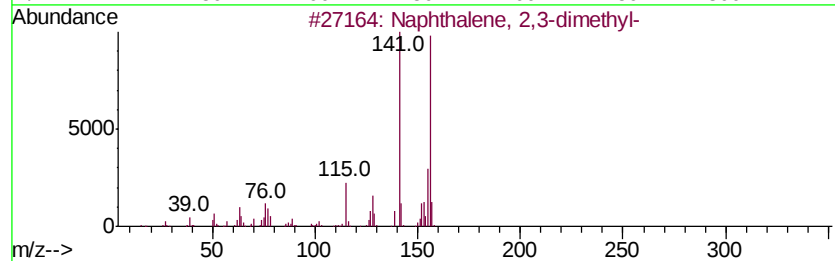
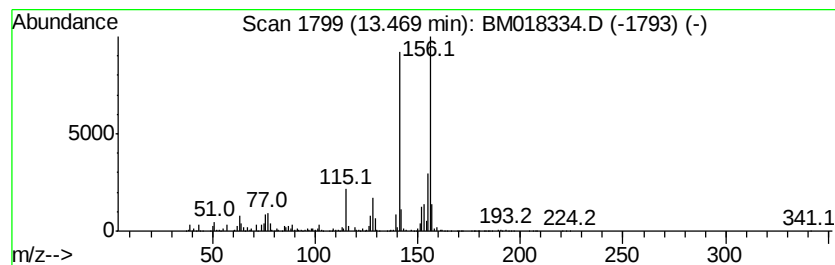
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 2,3-dimethyl- Concentration Rank 19

| R.T.  | EstConc  | Area     | Relative to ISTD | R.T.  |
|-------|----------|----------|------------------|-------|
| 13.47 | 33.43 ng | 11410500 | Acenaphthene-d10 | 14.15 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 5    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
Data File : BM018334.D  
Acq On : 20 Dec 2018 17:32  
Operator : JU/SJ  
Sample : J6426-11  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
P001-SS013A-3036-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

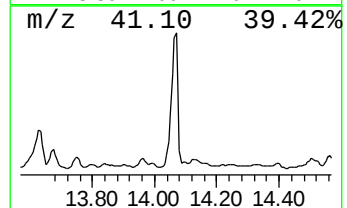
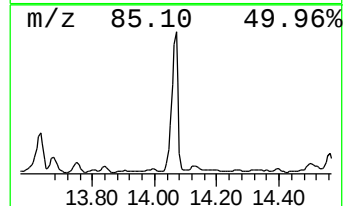
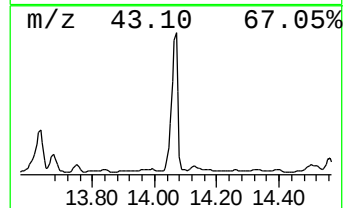
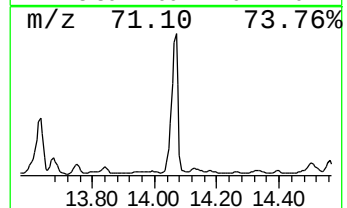
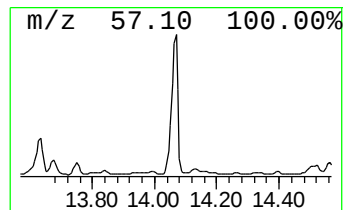
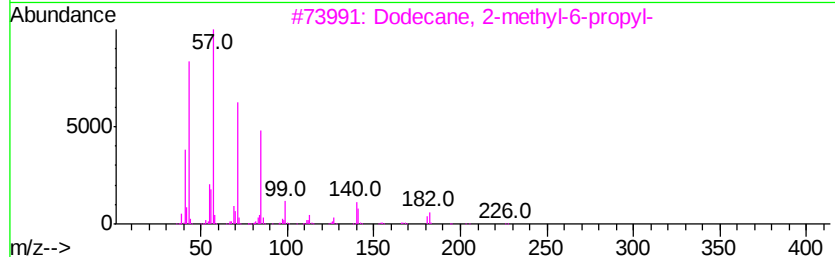
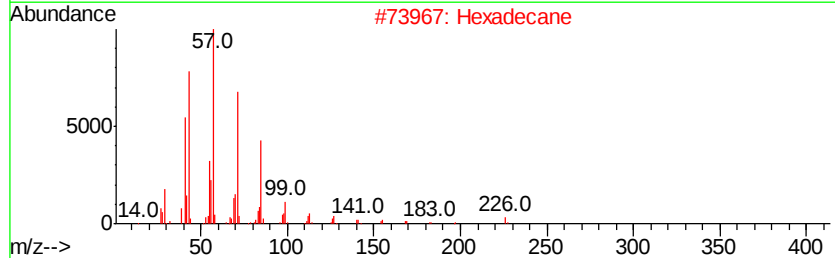
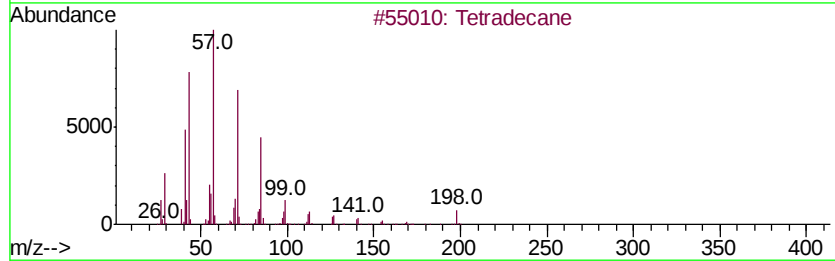
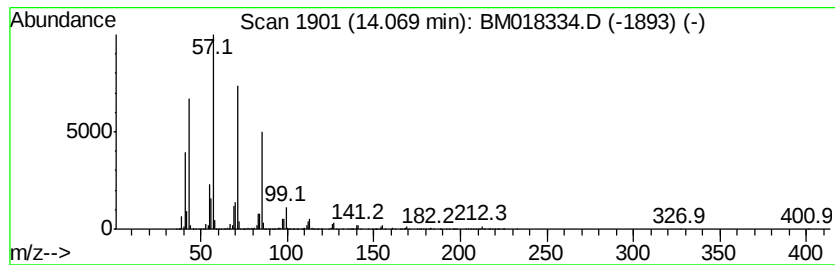
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Tetradecane Concentration Rank 9

| R.T.  | EstConc  | Area     | Relative to ISTD | R.T.  |
|-------|----------|----------|------------------|-------|
| 14.07 | 92.27 ng | 31491200 | Acenaphthene-d10 | 14.15 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane                  | 198 | C14H30  | 000629-59-4 | 96   |
| 2    |    | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 90   |
| 4    |    | Pentadecane                  | 212 | C15H32  | 000629-62-9 | 86   |
| 5    |    | Eicosane                     | 282 | C20H42  | 000112-95-8 | 80   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
Data File : BM018334.D  
Acq On : 20 Dec 2018 17:32  
Operator : JU/SJ  
Sample : J6426-11  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

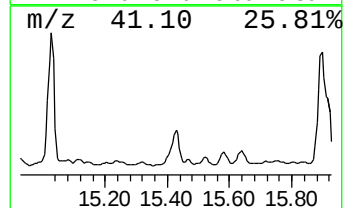
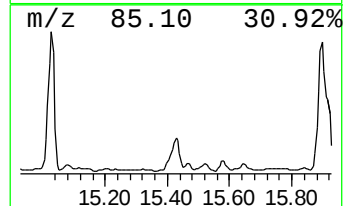
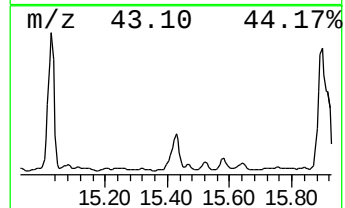
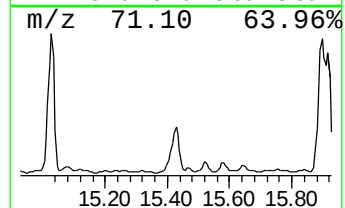
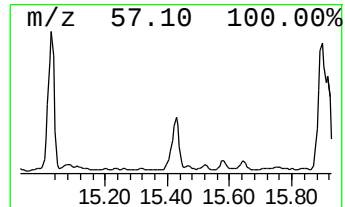
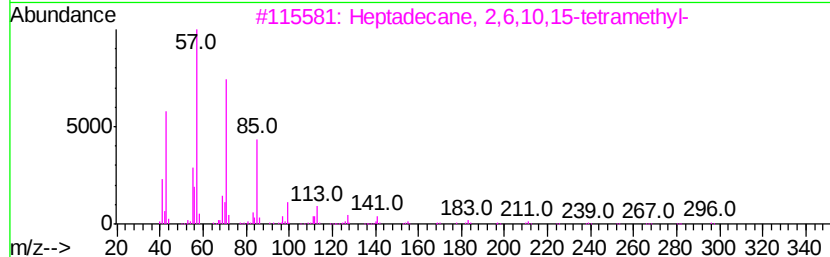
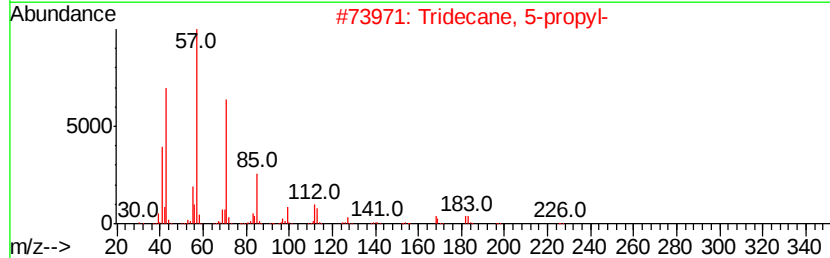
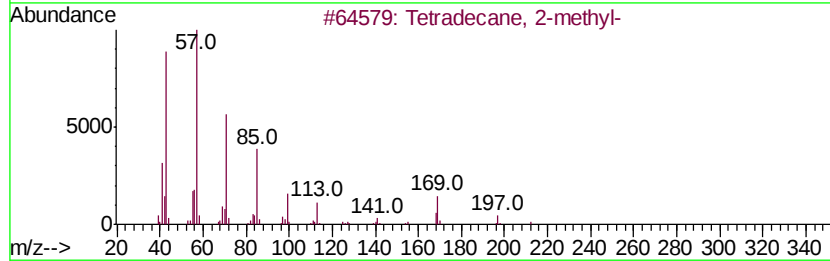
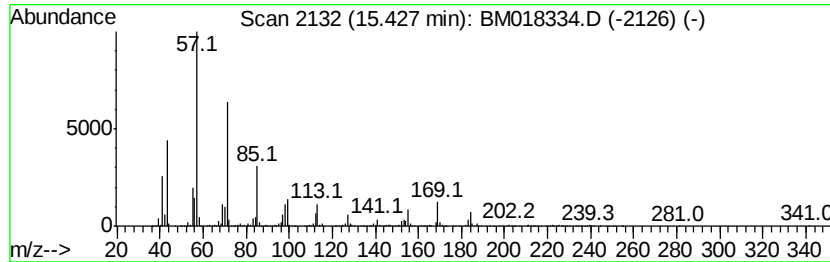
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ClientSampleId :  
P001-SS013A-3036-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Tetradecane, 2-methyl- Concentration Rank 20

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 15.43   | 32.11 ng | 10960000                            | Acenaphthene-d10 | 14.15          |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | Tetradecane, 2-methyl-              | 212 C15H32       | 001560-95-8 80 |
| 2       |          | Tridecane, 5-propyl-                | 226 C16H34       | 055045-11-9 74 |
| 3       |          | Heptadecane, 2,6,10,15-tetramethyl- | 296 C21H44       | 054833-48-6 68 |
| 4       |          | Decane, 2-methyl-                   | 156 C11H24       | 006975-98-0 68 |
| 5       |          | Hexadecane, 2,6,10,14-tetramethyl-  | 282 C20H42       | 000638-36-8 68 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
Data File : BM018334.D  
Acq On : 20 Dec 2018 17:32  
Operator : JU/SJ  
Sample : J6426-11  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
P001-SS013A-3036-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

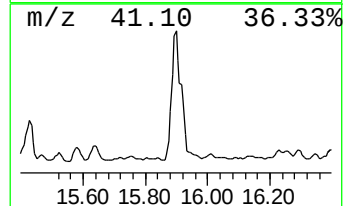
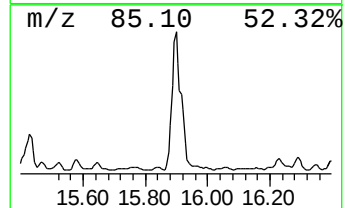
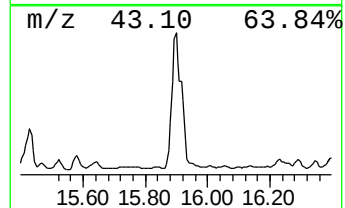
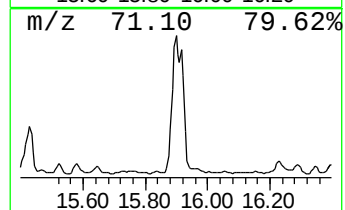
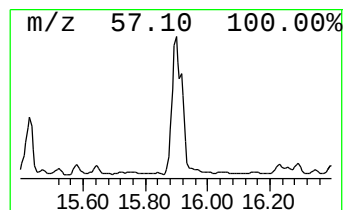
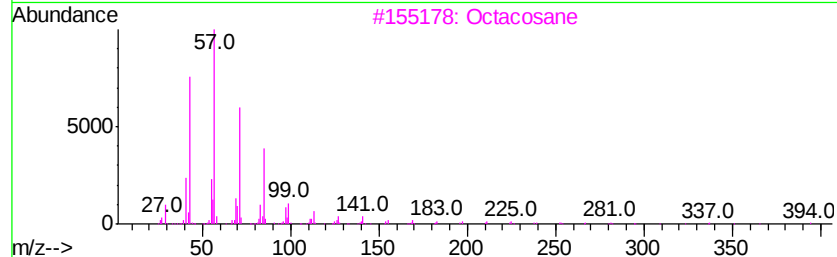
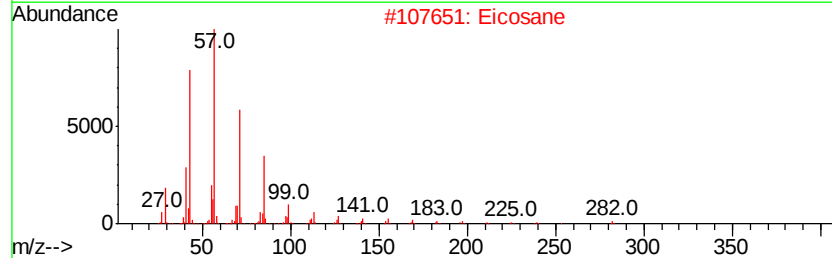
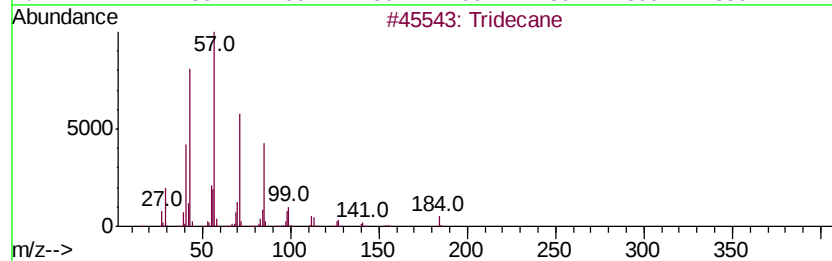
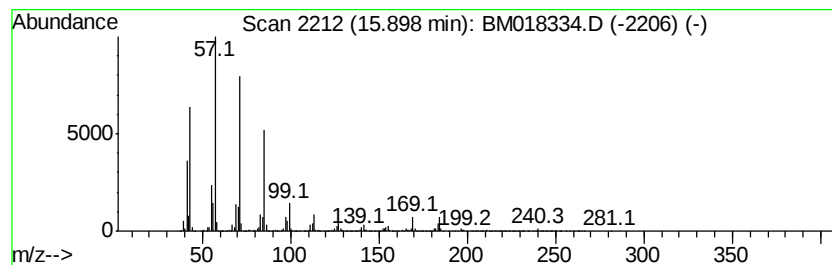
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Tridecane Concentration Rank 2

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 15.90 | 279.89 ng | 46189300 | Phenanthrene-d10 | 16.92 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 87   |
| 2    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 87   |
| 3    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 87   |
| 4    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 86   |
| 5    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
Data File : BM018334.D  
Acq On : 20 Dec 2018 17:32  
Operator : JU/SJ  
Sample : J6426-11  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
P001-SS013A-3036-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

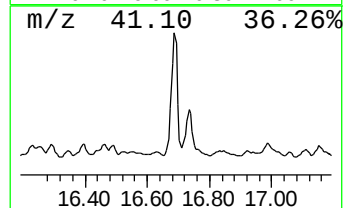
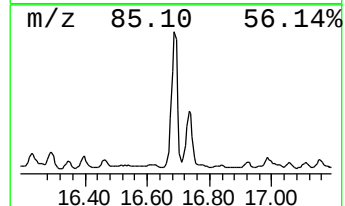
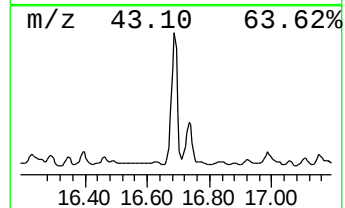
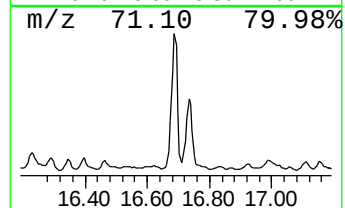
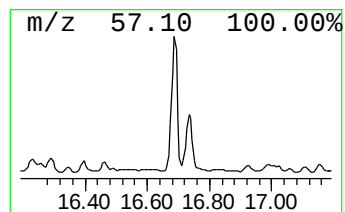
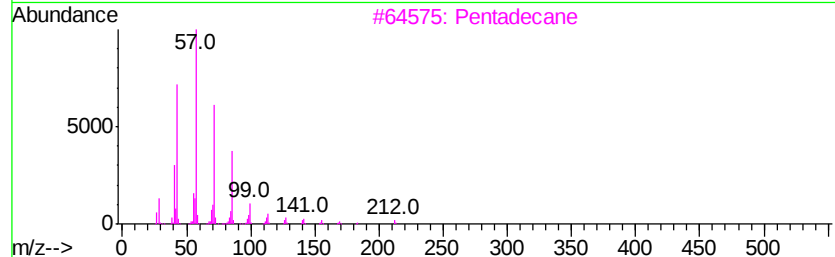
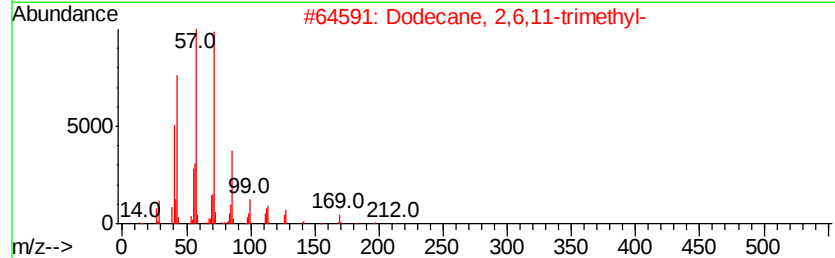
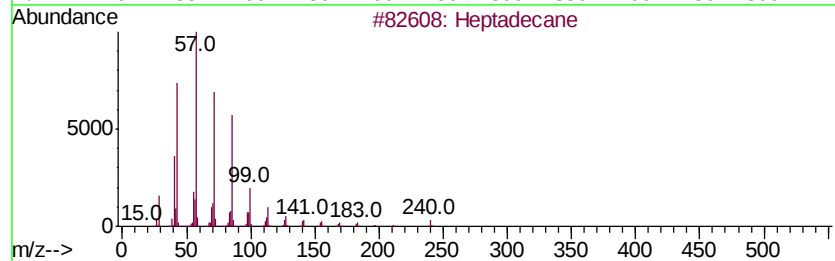
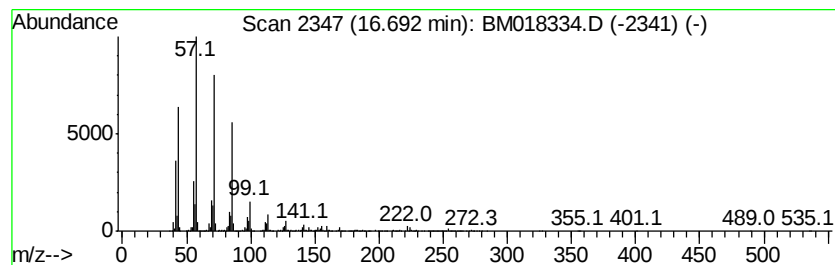
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Heptadecane Concentration Rank 6

| R.T.  | EstConc   | Area     | Relative to ISTD | R.T.  |
|-------|-----------|----------|------------------|-------|
| 16.69 | 115.87 ng | 19121600 | Phenanthrene-d10 | 16.92 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane                  | 240 | C17H36  | 000629-78-7 | 96   |
| 2    |    | Dodecane, 2,6,11-trimethyl-  | 212 | C15H32  | 031295-56-4 | 91   |
| 3    |    | Pentadecane                  | 212 | C15H32  | 000629-62-9 | 91   |
| 4    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 91   |
| 5    |    | Heneicosane                  | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
Data File : BM018334.D  
Acq On : 20 Dec 2018 17:32  
Operator : JU/SJ  
Sample : J6426-11  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

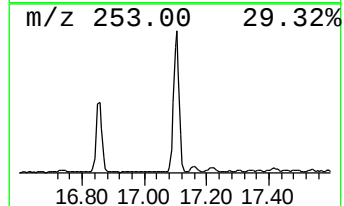
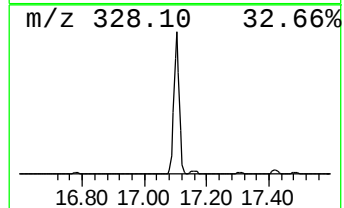
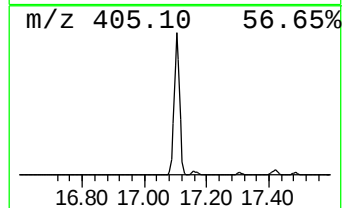
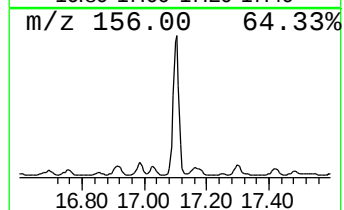
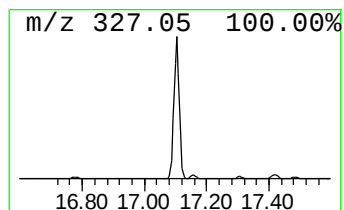
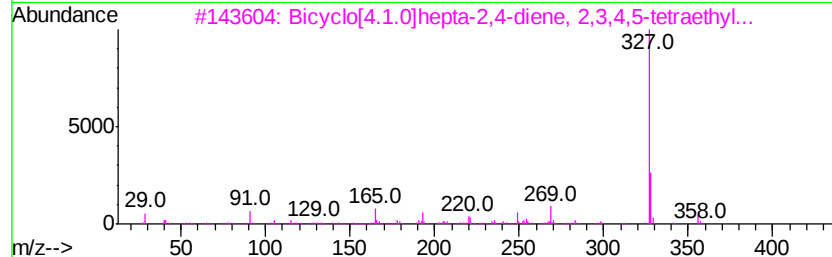
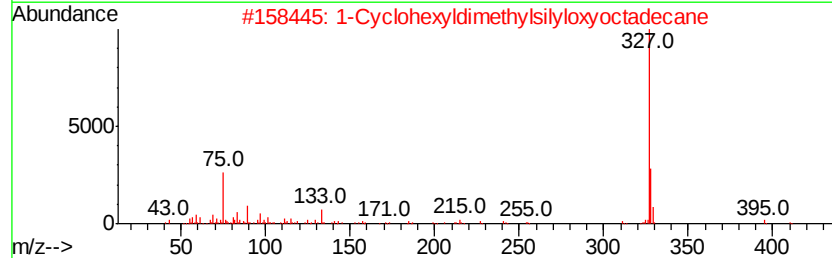
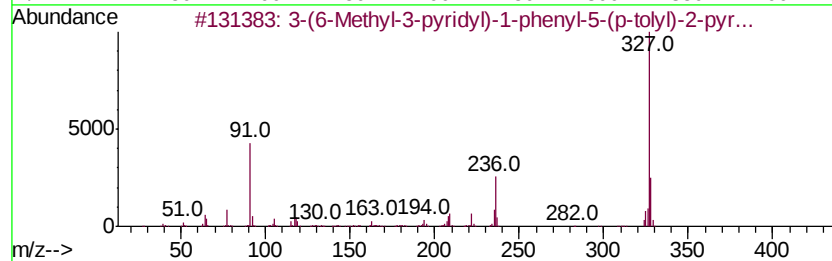
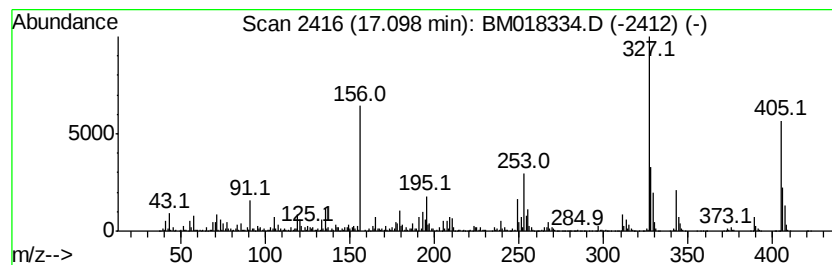
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ClientSampleId :  
P001-SS013A-3036-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 16 unknown17.10 Concentration Rank 11

| R.T.      | EstConc                             | Area     | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|----------|------------------|--------------|------|
| 17.10     | 67.36 ng                            | 11116300 | Phenanthrene-d10 | 16.92        |      |
| Hit# of 5 | Tentative ID                        | MW       | MolForm          | CAS#         | Qual |
| 1         | 3-(6-Methyl-3-pyridyl)-1-phenyl-... | 327      | C22H21N3         | 010040-74-1  | 22   |
| 2         | 1-Cyclohexyldimethylsilyloxyocta... | 410      | C26H54OSi        | 1000281-96-8 | 12   |
| 3         | Bicyclo[4.1.0]hepta-2,4-diene, 2... | 356      | C27H32           | 1000158-07-0 | 12   |
| 4         | Phosphine oxide, bis(pentamethyl... | 342      | C22H31OP         | 122085-61-4  | 10   |
| 5         | 2-(4-(Dimethylamino)-1-naphthyl)... | 327      | C22H17N02        | 085808-66-8  | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
Data File : BM018334.D  
Acq On : 20 Dec 2018 17:32  
Operator : JU/SJ  
Sample : J6426-11  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
P001-SS013A-3036-01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

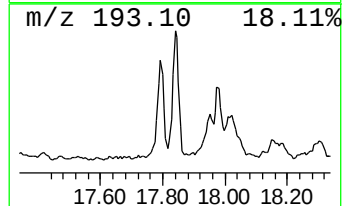
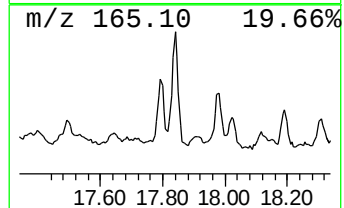
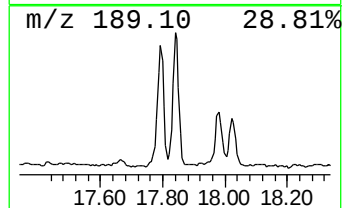
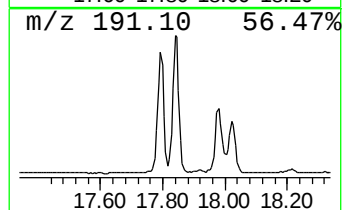
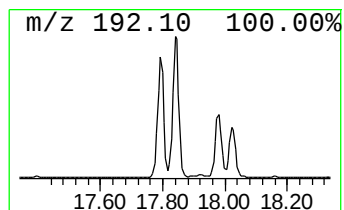
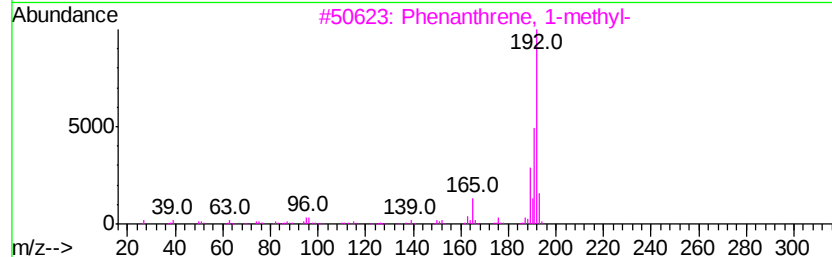
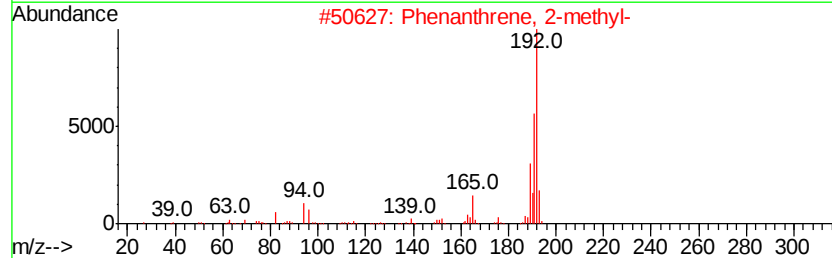
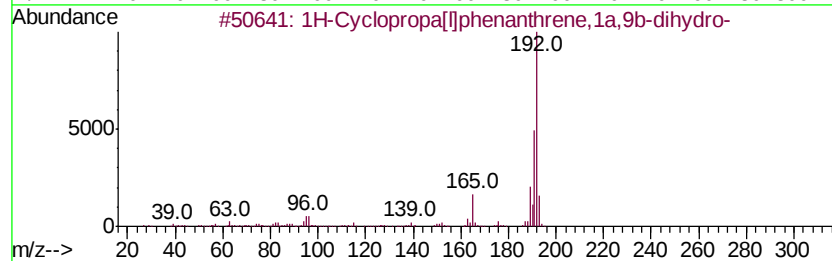
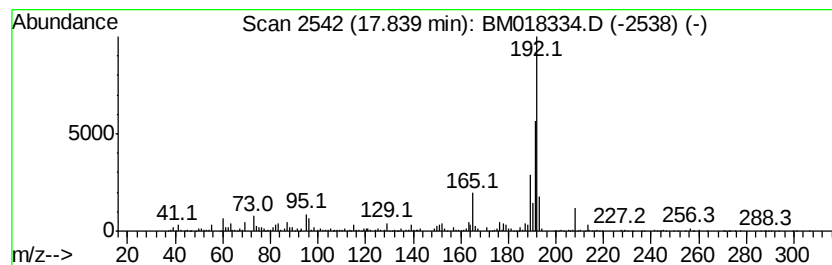
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 1H-Cyclopropa[l]phenanthren... Concentration Rank 16

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 17.84 | 38.93 ng | 6424010 | Phenanthrene-d10 | 16.92 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 97   |
| 2    |    | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 97   |
| 3    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 4    |    | Phenanthrene, 4-methyl-               | 192 | C15H12  | 000832-64-4 | 96   |
| 5    |    | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122018\  
 Data File : BM018334.D  
 Acq On : 20 Dec 2018 17:32  
 Operator : JU/SJ  
 Sample : J6426-11  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 P001-SS013A-3036-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

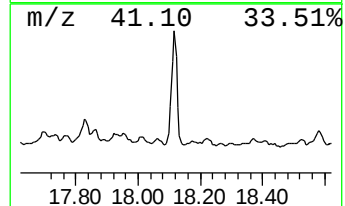
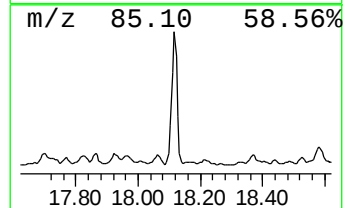
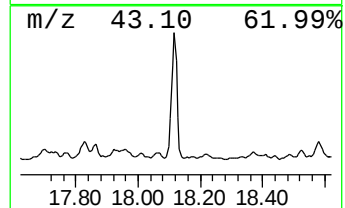
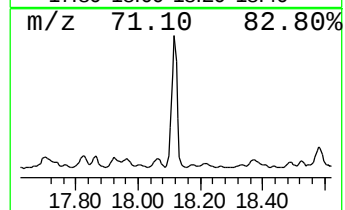
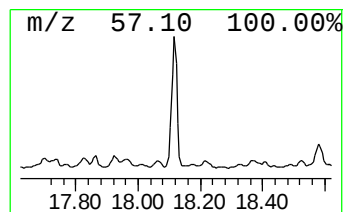
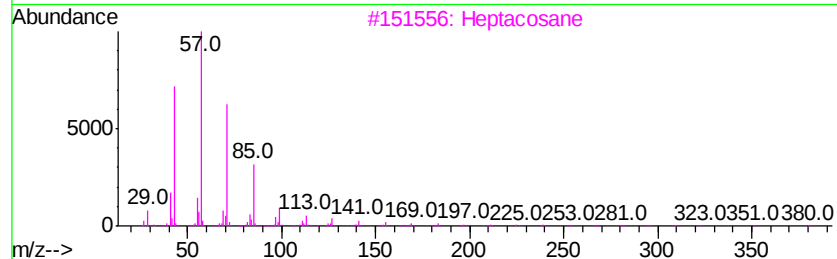
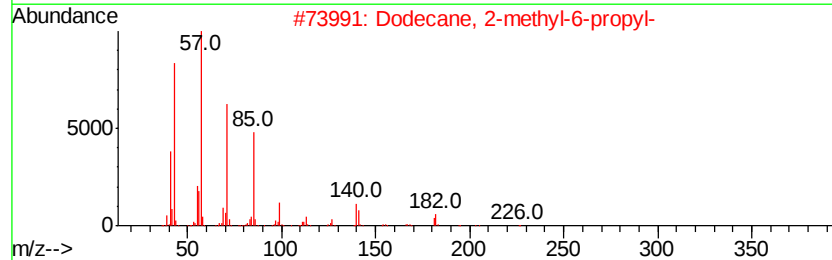
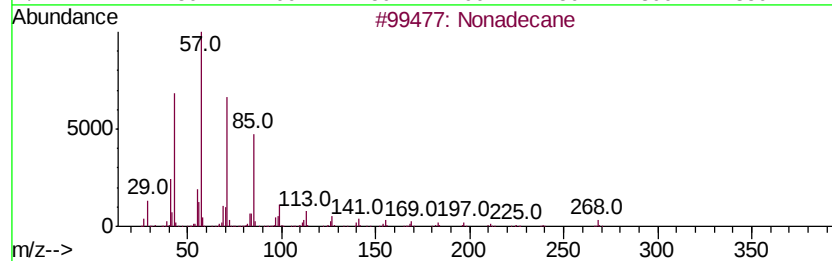
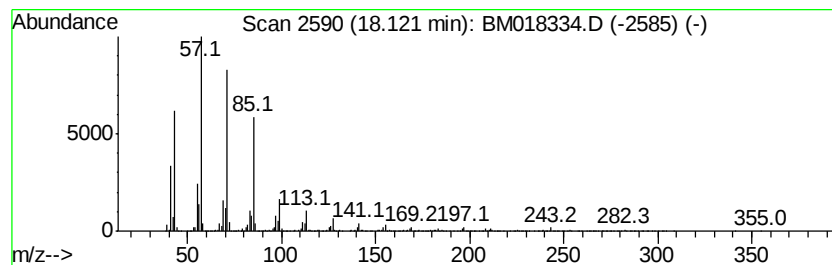
TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 19 Nonadecane Concentration Rank 12

| R.T.  | EstConc  | Area     | Relative to ISTD | R.T.  |
|-------|----------|----------|------------------|-------|
| 18.12 | 62.90 ng | 10379800 | Phenanthrene-d10 | 16.92 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonadecane                   | 268 | C19H40  | 000629-92-5 | 91   |
| 2    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 91   |
| 3    |    | Heptacosane                  | 380 | C27H56  | 000593-49-7 | 91   |
| 4    |    | Eicosane                     | 282 | C20H42  | 000112-95-8 | 90   |
| 5    |    | Hexadecane                   | 226 | C16H34  | 000544-76-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM122018\  
Data File : BM018334.D  
Acq On : 20 Dec 2018 17:32  
Operator : JU/SJ  
Sample : J6426-11  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
P001-SS013A-3036-01

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| 3,5-Octadiyne        | 5.24  | 729.9   | ng    | 321934000 | 1                     | 7.49  | 8821040 | 20.0 |
| Benzene, 1,2,3-tr... | 7.14  | 37.6    | ng    | 16591300  | 1                     | 7.49  | 8821040 | 20.0 |
| Naphthalene, 2,3-... | 13.47 | 33.4    | ng    | 11410500  | 3                     | 14.15 | 6825800 | 20.0 |
| Tetradecane          | 14.07 | 92.3    | ng    | 31491200  | 3                     | 14.15 | 6825800 | 20.0 |
| Tetradecane, 2-me... | 15.43 | 32.1    | ng    | 10960000  | 3                     | 14.15 | 6825800 | 20.0 |
| Tridecane            | 15.90 | 279.9   | ng    | 46189300  | 4                     | 16.92 | 3300530 | 20.0 |
| Heptadecane          | 16.69 | 115.9   | ng    | 19121600  | 4                     | 16.92 | 3300530 | 20.0 |
| unknown17.10         | 17.10 | 67.4    | ng    | 11116300  | 4                     | 16.92 | 3300530 | 20.0 |
| 1H-Cyclopropa[l]p... | 17.84 | 38.9    | ng    | 6424010   | 4                     | 16.92 | 3300530 | 20.0 |
| Nonadecane           | 18.12 | 62.9    | ng    | 10379800  | 4                     | 16.92 | 3300530 | 20.0 |