

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032916\  
 Data File : BM004830.D  
 Acq On : 29 Mar 2016 21:03  
 Operator : UM/SJ  
 Sample : H1939-15  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9SG7

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 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:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM031516.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         | 6.516       | 646           | 651         | 656          | rVB      | 12989          | 16988         | 1.04%           | 0.097%        |
| 2         | 6.987       | 722           | 731         | 741          | rBV      | 178560         | 292535        | 17.91%          | 1.663%        |
| 3         | 7.157       | 754           | 760         | 768          | rBV      | 160229         | 242094        | 14.82%          | 1.376%        |
| 4         | 7.357       | 787           | 794         | 802          | rVB      | 182955         | 287790        | 17.62%          | 1.636%        |
| 5         | 7.828       | 867           | 874         | 882          | rVB      | 172485         | 274667        | 16.81%          | 1.561%        |
| 6         | 8.522       | 986           | 992         | 1003         | rVB      | 250425         | 394177        | 24.13%          | 2.240%        |
| 7         | 8.981       | 1063          | 1070        | 1079         | rBV      | 178898         | 287633        | 17.61%          | 1.635%        |
| 8         | 9.698       | 1186          | 1192        | 1200         | rBV      | 143458         | 233947        | 14.32%          | 1.330%        |
| 9         | 10.233      | 1277          | 1283        | 1296         | rVB      | 239677         | 391690        | 23.98%          | 2.226%        |
| 10        | 10.616      | 1341          | 1348        | 1355         | rBV      | 281894         | 471741        | 28.88%          | 2.681%        |
| 11        | 10.751      | 1365          | 1371        | 1384         | rBV      | 215854         | 372134        | 22.78%          | 2.115%        |
| 12        | 13.868      | 1895          | 1901        | 1905         | rBV      | 485320         | 679621        | 41.60%          | 3.863%        |
| 13        | 13.916      | 1905          | 1909        | 1916         | rVB      | 173798         | 244657        | 14.98%          | 1.391%        |
| 14        | 14.151      | 1943          | 1949        | 1959         | rBV      | 545412         | 814914        | 49.88%          | 4.632%        |
| 15        | 14.357      | 1980          | 1984        | 1988         | rBV      | 14806          | 17602         | 1.08%           | 0.100%        |
| 16        | 14.463      | 1995          | 2002        | 2010         | rBV2     | 458596         | 701913        | 42.97%          | 3.989%        |
| 17        | 14.651      | 2028          | 2034        | 2050         | rBV      | 204775         | 300037        | 18.37%          | 1.705%        |
| 18        | 15.310      | 2141          | 2146        | 2152         | rVB      | 22977          | 28733         | 1.76%           | 0.163%        |
| 19        | 15.457      | 2164          | 2171        | 2181         | rVB      | 725019         | 1062147       | 65.02%          | 6.037%        |
| 20        | 15.568      | 2184          | 2190        | 2199         | rBV      | 207797         | 284093        | 17.39%          | 1.615%        |
| 21        | 16.168      | 2287          | 2292        | 2305         | rBV      | 23464          | 45655         | 2.79%           | 0.259%        |
| 22        | 16.957      | 2420          | 2426        | 2430         | rBV      | 12712          | 17791         | 1.09%           | 0.101%        |
| 23        | 17.204      | 2462          | 2468        | 2475         | rBV2     | 624232         | 901540        | 55.19%          | 5.124%        |
| 24        | 17.304      | 2479          | 2485        | 2495         | rVB      | 826838         | 1170857       | 71.67%          | 6.655%        |
| 25        | 18.092      | 2613          | 2619        | 2629         | rBV      | 45347          | 67009         | 4.10%           | 0.381%        |
| 26        | 18.556      | 2695          | 2698        | 2702         | rVB2     | 15400          | 19572         | 1.20%           | 0.111%        |
| 27        | 19.509      | 2851          | 2860        | 2867         | rBV      | 251048         | 313686        | 19.20%          | 1.783%        |
| 28        | 19.598      | 2869          | 2875        | 2887         | rVB2     | 1053282        | 1495617       | 91.55%          | 8.501%        |
| 29        | 19.721      | 2892          | 2896        | 2903         | rVB      | 57118          | 67026         | 4.10%           | 0.381%        |
| 30        | 20.045      | 2945          | 2951        | 2958         | rVB      | 355360         | 462435        | 28.31%          | 2.628%        |
| 31        | 20.515      | 3027          | 3031        | 3032         | rBV      | 84003          | 86919         | 5.32%           | 0.494%        |
| 32        | 20.786      | 3072          | 3077        | 3084         | rVB3     | 9525           | 16861         | 1.03%           | 0.096%        |
| 33        | 21.062      | 3117          | 3124        | 3127         | rBV      | 48687          | 88944         | 5.44%           | 0.506%        |
| 34        | 21.109      | 3127          | 3132        | 3138         | rVV2     | 103510         | 219421        | 13.43%          | 1.247%        |

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Misc :  
ALS Vial : 17 Sample Multiplier: 1

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## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
Stop Thrs : 0  
Filtering: 5  
Min Area: 1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

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

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Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 21.168 | 3138 | 3142 | 3146 | rVV  | 248467 | 303879  | 18.60%  | 1.727% |
| 36 | 21.209 | 3146 | 3149 | 3151 | rVV4 | 31637  | 43347   | 2.65%   | 0.246% |
| 37 | 21.233 | 3151 | 3153 | 3157 | rVV3 | 35238  | 49758   | 3.05%   | 0.283% |
| 38 | 21.268 | 3157 | 3159 | 3161 | rVV  | 18127  | 19194   | 1.17%   | 0.109% |
| 39 | 21.297 | 3161 | 3164 | 3169 | rVB  | 48698  | 55952   | 3.43%   | 0.318% |
| 40 | 21.392 | 3174 | 3180 | 3188 | rVB  | 961703 | 1251474 | 76.61%  | 7.113% |
| 41 | 21.809 | 3248 | 3251 | 3258 | rVB3 | 29827  | 36343   | 2.22%   | 0.207% |
| 42 | 21.980 | 3276 | 3280 | 3287 | rBV3 | 34722  | 54768   | 3.35%   | 0.311% |
| 43 | 22.168 | 3309 | 3312 | 3317 | rVB  | 15062  | 19565   | 1.20%   | 0.111% |
| 44 | 22.450 | 3356 | 3360 | 3367 | rBV2 | 31736  | 43846   | 2.68%   | 0.249% |
| 45 | 22.586 | 3380 | 3383 | 3387 | rVB2 | 14758  | 19176   | 1.17%   | 0.109% |
| 46 | 22.968 | 3444 | 3448 | 3453 | rBV  | 76593  | 109047  | 6.68%   | 0.620% |
| 47 | 23.538 | 3537 | 3545 | 3555 | rBV  | 803386 | 1633607 | 100.00% | 9.285% |
| 48 | 23.686 | 3562 | 3570 | 3583 | rVB  | 586405 | 1168210 | 71.51%  | 6.640% |
| 49 | 24.221 | 3655 | 3661 | 3668 | rVB  | 60096  | 114636  | 7.02%   | 0.652% |
| 50 | 24.303 | 3670 | 3675 | 3683 | rBV3 | 40758  | 85261   | 5.22%   | 0.485% |
| 51 | 24.985 | 3784 | 3791 | 3800 | rBV  | 53081  | 118563  | 7.26%   | 0.674% |
| 52 | 25.879 | 3938 | 3943 | 3955 | rVB2 | 39057  | 95055   | 5.82%   | 0.540% |

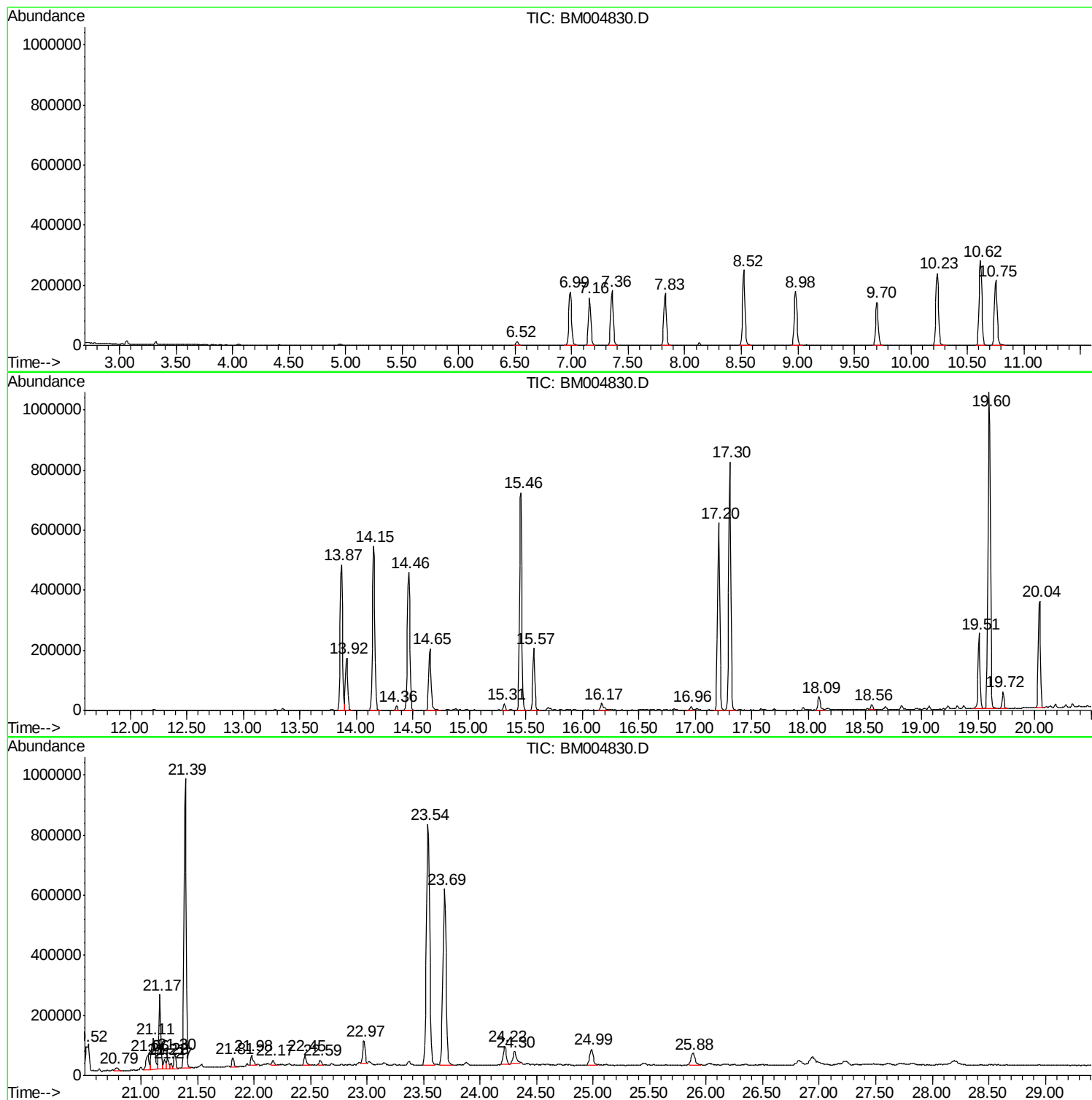
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM031516.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032916\  
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Acq On : 29 Mar 2016 21:03  
Operator : UM/SJ  
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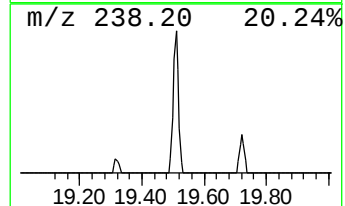
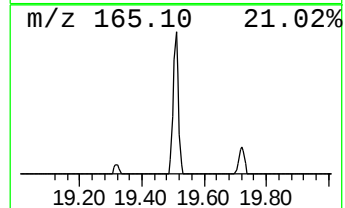
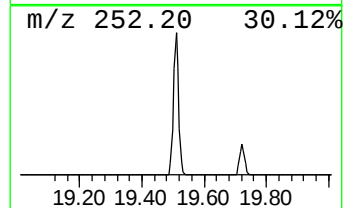
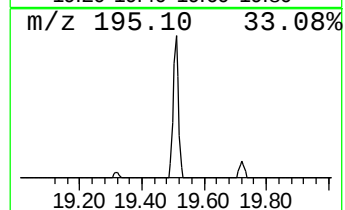
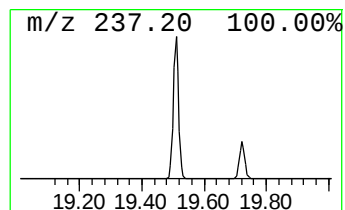
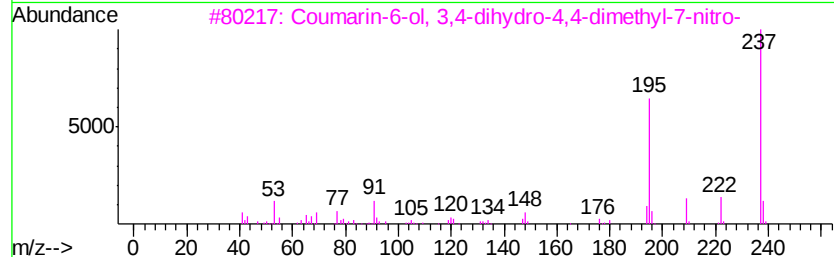
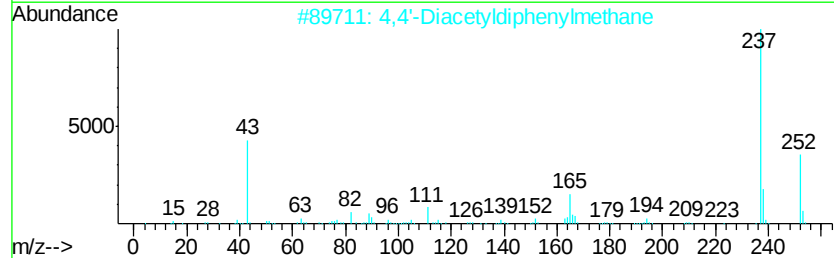
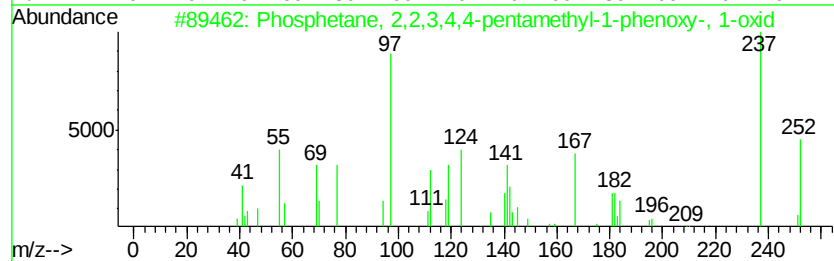
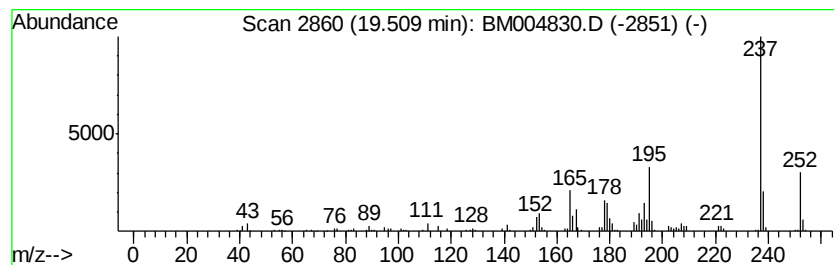
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM031516.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 Phosphetane, 2,2,3,4,4-pent... Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 19.51     | 5.01 ng/ul                          | 313686 | Chrysene-d12     | 21.39        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Phosphetane, 2,2,3,4,4-pentameth... | 252    | C14H21O2P        | 050517-26-5  | 86   |
| 2         | 4,4'-Diacetyldiphenylmethane        | 252    | C17H16O2         | 000790-82-9  | 59   |
| 3         | Coumarin-6-ol, 3,4-dihydro-4,4-d... | 237    | C11H11NO5        | 1000126-61-0 | 49   |
| 4         | 2-p-Tolyloisindole-1,3-dione        | 237    | C15H11NO2        | 002142-03-2  | 47   |
| 5         | 2-Acetylmethylamino-5,5-dimethyl... | 252    | C12H16N2O2S      | 1000285-58-5 | 40   |



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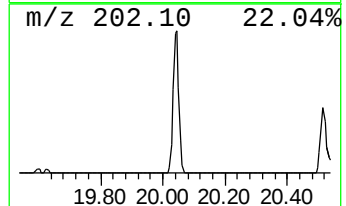
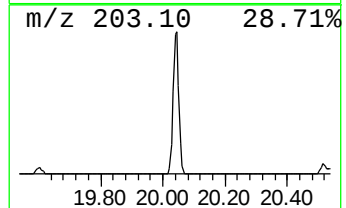
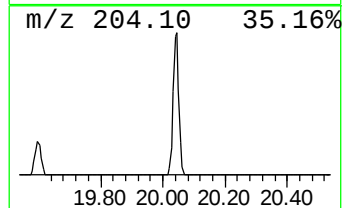
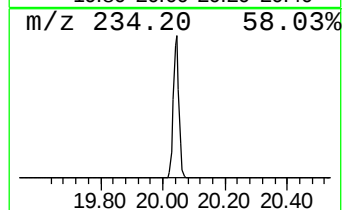
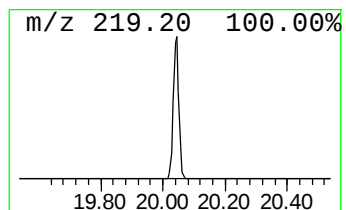
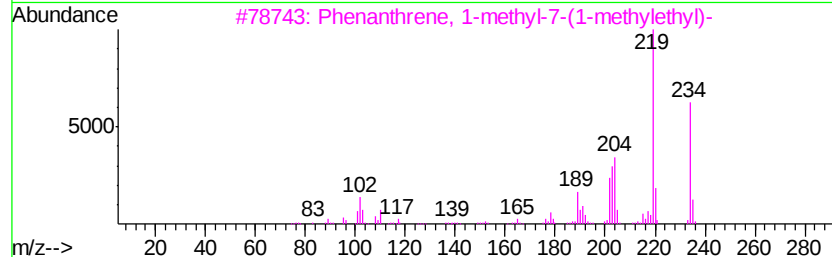
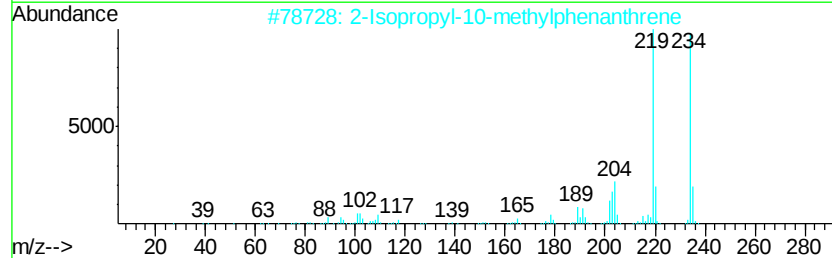
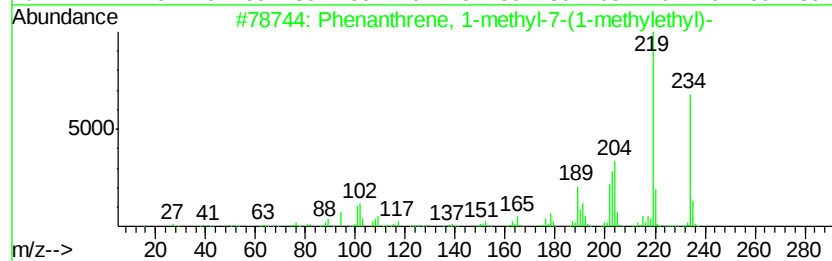
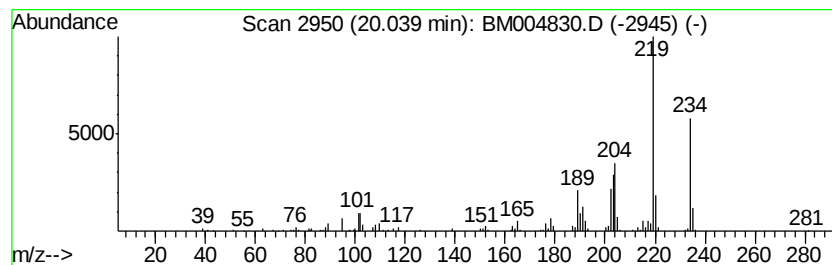
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM031516.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 2 Phenanthrene, 1-methyl-7-(1... Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------|-------------|------|------|
| 20.04   | 7.39 ng/ul                          | 462435       | Chrysene-d12     | 21.39       |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | Phenanthrene, 1-methyl-7-(1-meth... | 234          | C18H18           | 000483-65-8 | 99   |      |
| 2       | 2-Isopropyl-10-methylphenanthrene   | 234          | C18H18           | 066552-97-4 | 95   |      |
| 3       | Phenanthrene, 1-methyl-7-(1-meth... | 234          | C18H18           | 000483-65-8 | 95   |      |
| 4       | Phenanthrene, 1-methyl-7-(1-meth... | 234          | C18H18           | 000483-65-8 | 94   |      |
| 5       | Phenanthrene, 2,4,5,7-tetramethyl-  | 234          | C18H18           | 007396-38-5 | 89   |      |



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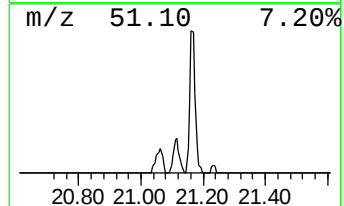
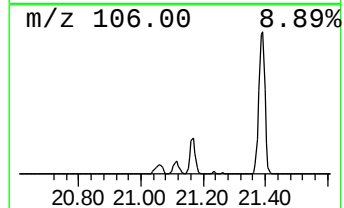
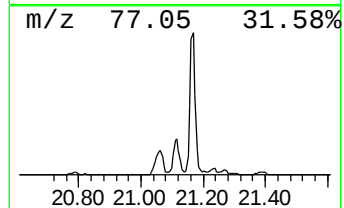
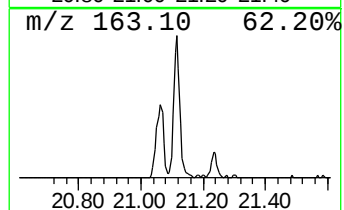
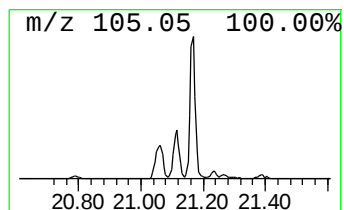
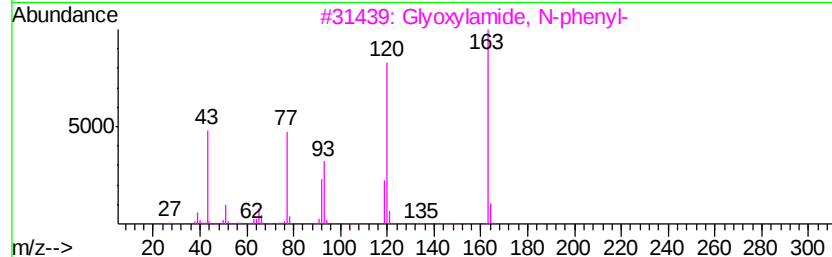
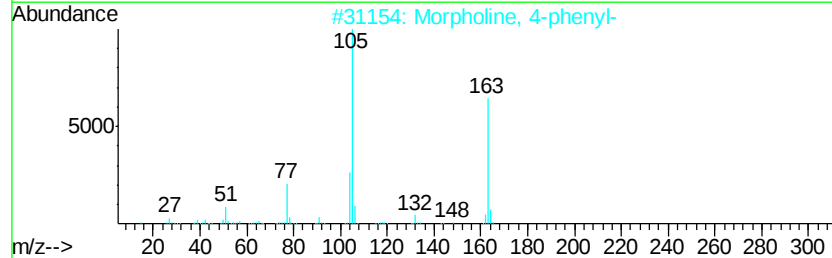
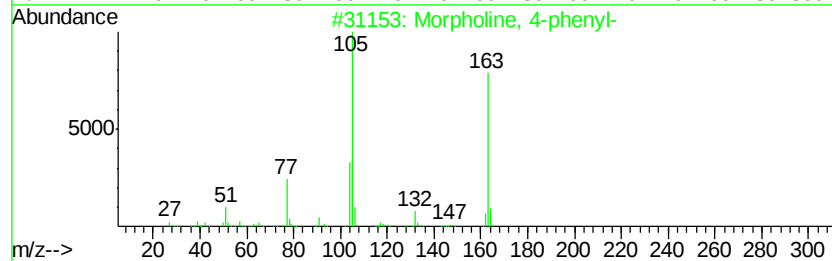
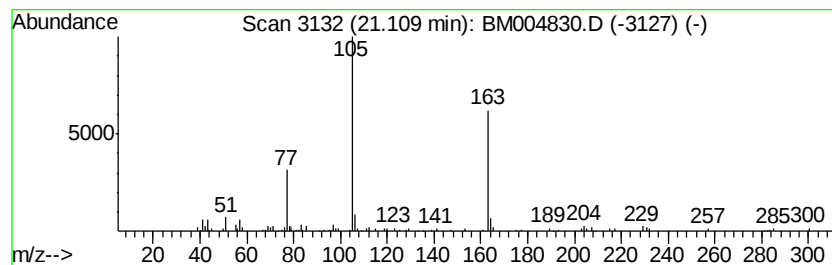
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Morpholine, 4-phenyl- Concentration Rank 4

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.       |             |      |
|---------|------------|-------------------------------------|------------------|------------|-------------|------|
| 21.11   | 3.51 ng/ul | 219421                              | Chrysene-d12     | 21.39      |             |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm    | CAS#        | Qual |
| 1       |            | Morpholine, 4-phenyl-               | 163              | C10H13NO   | 000092-53-5 | 64   |
| 2       |            | Morpholine, 4-phenyl-               | 163              | C10H13NO   | 000092-53-5 | 59   |
| 3       |            | Glyoxylamide, N-phenyl-             | 163              | C9H9NO2    | 032331-52-5 | 47   |
| 4       |            | .delta.2-1,3,4-Oxadiazolin-5-one... | 163              | C7H5N3O2   | 002845-82-1 | 38   |
| 5       |            | Benzamide, N-[5-(1-cyano-2-methy... | 284              | C14H12N4OS | 172535-11-4 | 35   |



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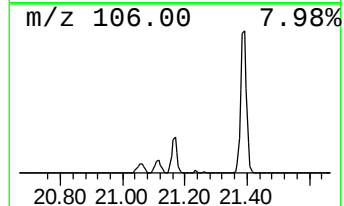
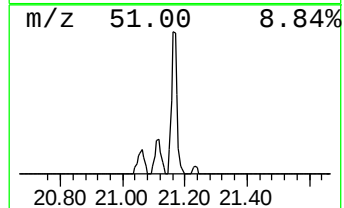
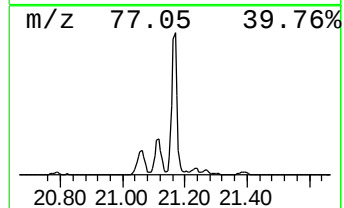
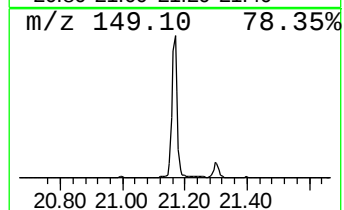
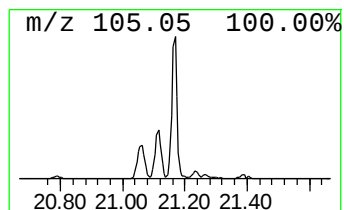
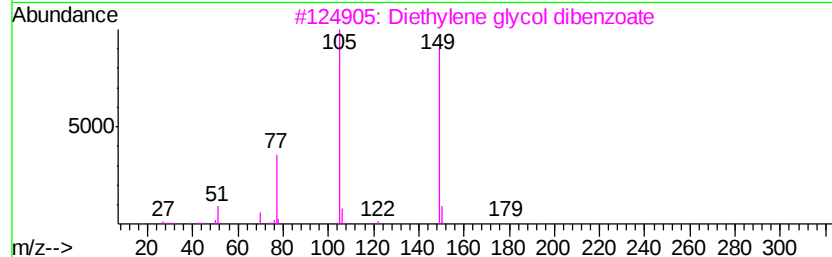
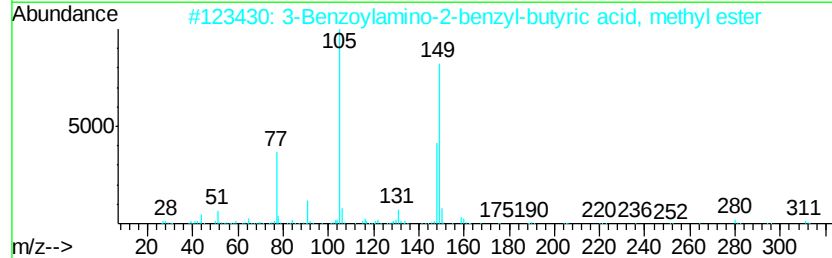
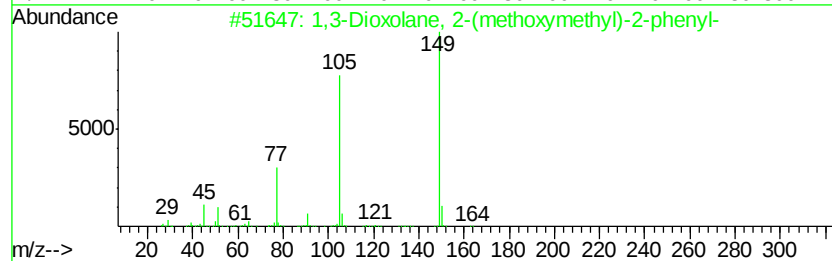
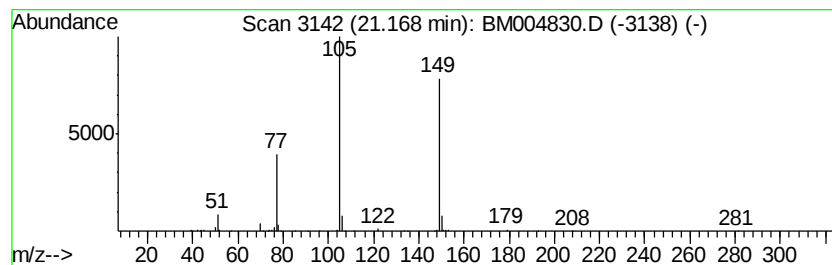
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BNA\_M  
ClientSampleId :  
D9SG7

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM031516.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 1,3-Dioxolane, 2-(methoxyme... Concentration Rank 3

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 21.17   | 4.86 ng/ul                          | 303879       | Chrysene-d12     | 21.39        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | 1,3-Dioxolane, 2-(methoxymethyl)... | 194          | C11H14O3         | 1000156-71-2 | 74   |      |
| 2       | 3-Benzoylamino-2-benzyl-butyric ... | 311          | C19H21NO3        | 1000193-12-7 | 64   |      |
| 3       | Diethylene glycol dibenzoate        | 314          | C18H18O5         | 000120-55-8  | 64   |      |
| 4       | 2-Methyl-4-hydroxybenzoxazole       | 149          | C8H7NO2          | 051110-60-2  | 43   |      |
| 5       | N-(Methoxymethyl)benzamide          | 165          | C9H11NO2         | 013156-28-0  | 35   |      |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032916\  
Data File : BM004830.D  
Acq On : 29 Mar 2016 21:03  
Operator : UM/SJ  
Sample : H1939-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9SG7

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM031516.M  
Quant Title : SVOA CALIBRATION

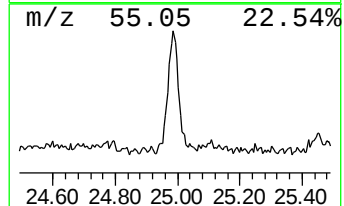
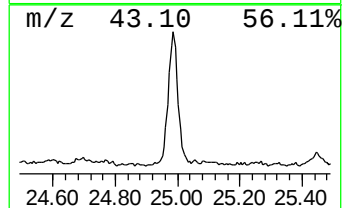
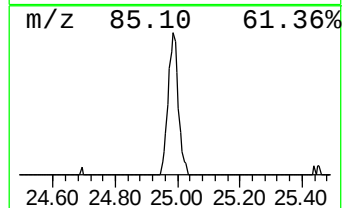
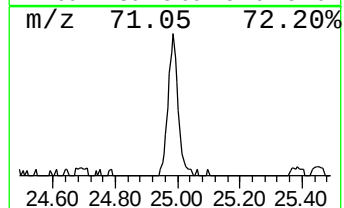
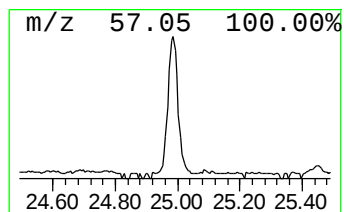
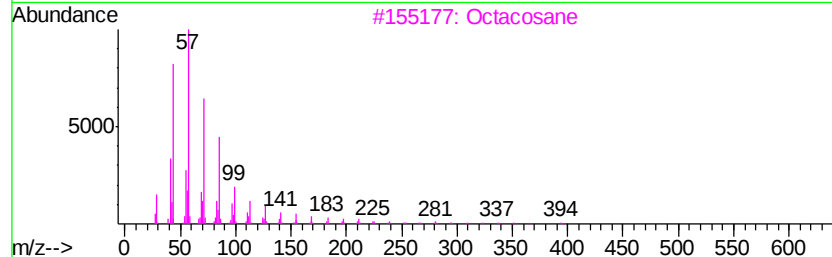
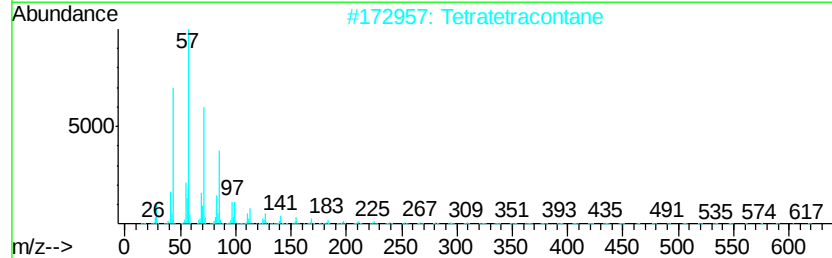
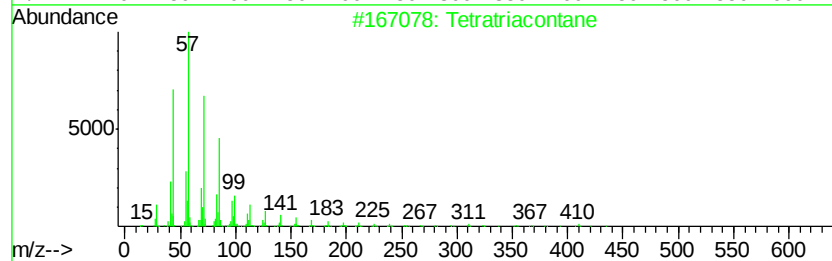
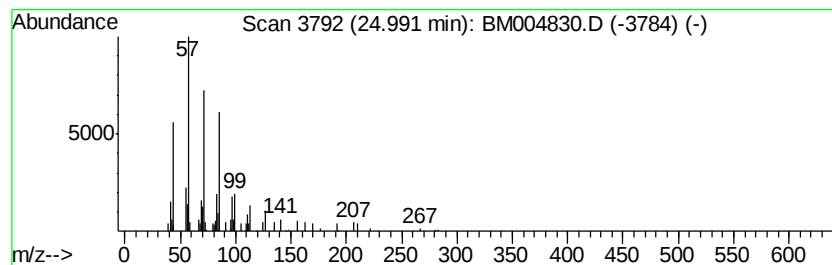
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.99 | 2.03 ng/ul | 118563 | Perylene-d12     | 23.69 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Tetratriacontane  | 479 | C34H70  | 014167-59-0 | 91   |
| 2    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 90   |
| 3    |    | Octacosane        | 394 | C28H58  | 000630-02-4 | 87   |
| 4    |    | Heneicosane       | 296 | C21H44  | 000629-94-7 | 87   |
| 5    |    | Heptacosane       | 380 | C27H56  | 000593-49-7 | 83   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM032916\  
Data File : BM004830.D  
Acq On : 29 Mar 2016 21:03  
Operator : UM/SJ  
Sample : H1939-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9SG7

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM031516.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 |
| Phosphetane, 2,2,... | 19.51 | 5.0     | ng/ul | 313686   | 5                     | 21.39 | 1251470 | 20.0 |
| Phenanthrene, 1-m... | 20.04 | 7.4     | ng/ul | 462435   | 5                     | 21.39 | 1251470 | 20.0 |
| Morpholine, 4-phe... | 21.11 | 3.5     | ng/ul | 219421   | 5                     | 21.39 | 1251470 | 20.0 |
| 1,3-Dioxolane, 2-... | 21.17 | 4.9     | ng/ul | 303879   | 5                     | 21.39 | 1251470 | 20.0 |
| (DEL) Alkane: Str... | 24.99 | 2.0     | ng/ul | 118563   | 6                     | 23.69 | 1168210 | 20.0 |