

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM102816\  
 Data File : BM007745.D  
 Acq On : 28 Oct 2016 16:25  
 Operator : UM/SJ  
 Sample : H5442-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PRERV-SS012-0003-01

## 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-BM102016.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         | 6.934       | 732           | 739         | 755          | rVB2     | 496712         | 929592        | 5.79%           | 1.628%        |
| 2         | 7.092       | 758           | 766         | 775          | rBV      | 390115         | 613218        | 3.82%           | 1.074%        |
| 3         | 7.292       | 792           | 800         | 809          | rBV      | 516542         | 857202        | 5.34%           | 1.501%        |
| 4         | 7.751       | 869           | 878         | 887          | rBV      | 683510         | 1099310       | 6.85%           | 1.925%        |
| 5         | 8.457       | 992           | 998         | 1009         | rBV      | 585617         | 996849        | 6.21%           | 1.745%        |
| 6         | 8.910       | 1068          | 1075        | 1085         | rBV      | 469878         | 796207        | 4.96%           | 1.394%        |
| 7         | 9.628       | 1190          | 1197        | 1207         | rBV      | 381795         | 663471        | 4.13%           | 1.162%        |
| 8         | 10.163      | 1281          | 1288        | 1301         | rBV      | 591368         | 1065732       | 6.64%           | 1.866%        |
| 9         | 10.533      | 1342          | 1351        | 1365         | rBV      | 865066         | 1468263       | 9.15%           | 2.571%        |
| 10        | 10.680      | 1369          | 1376        | 1396         | rBV      | 475214         | 952229        | 5.93%           | 1.667%        |
| 11        | 13.798      | 1900          | 1906        | 1910         | rBV      | 1110703        | 1551597       | 9.67%           | 2.717%        |
| 12        | 13.845      | 1910          | 1914        | 1922         | rVB      | 1053358        | 1441284       | 8.98%           | 2.524%        |
| 13        | 14.080      | 1947          | 1954        | 1967         | rVB      | 1212758        | 1826716       | 11.38%          | 3.198%        |
| 14        | 14.386      | 2000          | 2006        | 2014         | rVB      | 1305117        | 1906894       | 11.88%          | 3.339%        |
| 15        | 14.610      | 2038          | 2044        | 2053         | rBV2     | 416540         | 797206        | 4.97%           | 1.396%        |
| 16        | 14.686      | 2053          | 2057        | 2070         | rVB      | 145454         | 265578        | 1.66%           | 0.465%        |
| 17        | 15.110      | 2124          | 2129        | 2137         | rBV      | 229501         | 368473        | 2.30%           | 0.645%        |
| 18        | 15.380      | 2169          | 2175        | 2184         | rBV      | 1629013        | 2297219       | 14.32%          | 4.022%        |
| 19        | 15.521      | 2193          | 2199        | 2210         | rBV      | 304116         | 501703        | 3.13%           | 0.878%        |
| 20        | 16.909      | 2427          | 2435        | 2447         | rBV2     | 235282         | 769370        | 4.79%           | 1.347%        |
| 21        | 17.133      | 2467          | 2473        | 2478         | rBV      | 1515893        | 2152068       | 13.41%          | 3.768%        |
| 22        | 17.233      | 2484          | 2490        | 2499         | rVB      | 1760900        | 2520508       | 15.71%          | 4.413%        |
| 23        | 18.021      | 2620          | 2624        | 2629         | rBV2     | 131296         | 215372        | 1.34%           | 0.377%        |
| 24        | 19.192      | 2820          | 2823        | 2829         | rVB      | 187638         | 250377        | 1.56%           | 0.438%        |
| 25        | 19.527      | 2875          | 2880        | 2892         | rBV      | 2106087        | 3345783       | 20.85%          | 5.858%        |
| 26        | 21.227      | 3166          | 3169        | 3174         | rVB      | 955128         | 1006861       | 6.27%           | 1.763%        |
| 27        | 21.321      | 3181          | 3185        | 3189         | rBV      | 2063721        | 2553814       | 15.92%          | 4.472%        |
| 28        | 22.074      | 3307          | 3313        | 3324         | rBV      | 11044388       | 16045873      | 100.00%         | 28.095%       |
| 29        | 22.874      | 3445          | 3449        | 3468         | rVB3     | 1054259        | 2457794       | 15.32%          | 4.303%        |
| 30        | 23.433      | 3540          | 3544        | 3550         | rVB2     | 1558834        | 2706604       | 16.87%          | 4.739%        |
| 31        | 23.580      | 3564          | 3569        | 3576         | rVB      | 1473688        | 2688784       | 16.76%          | 4.708%        |

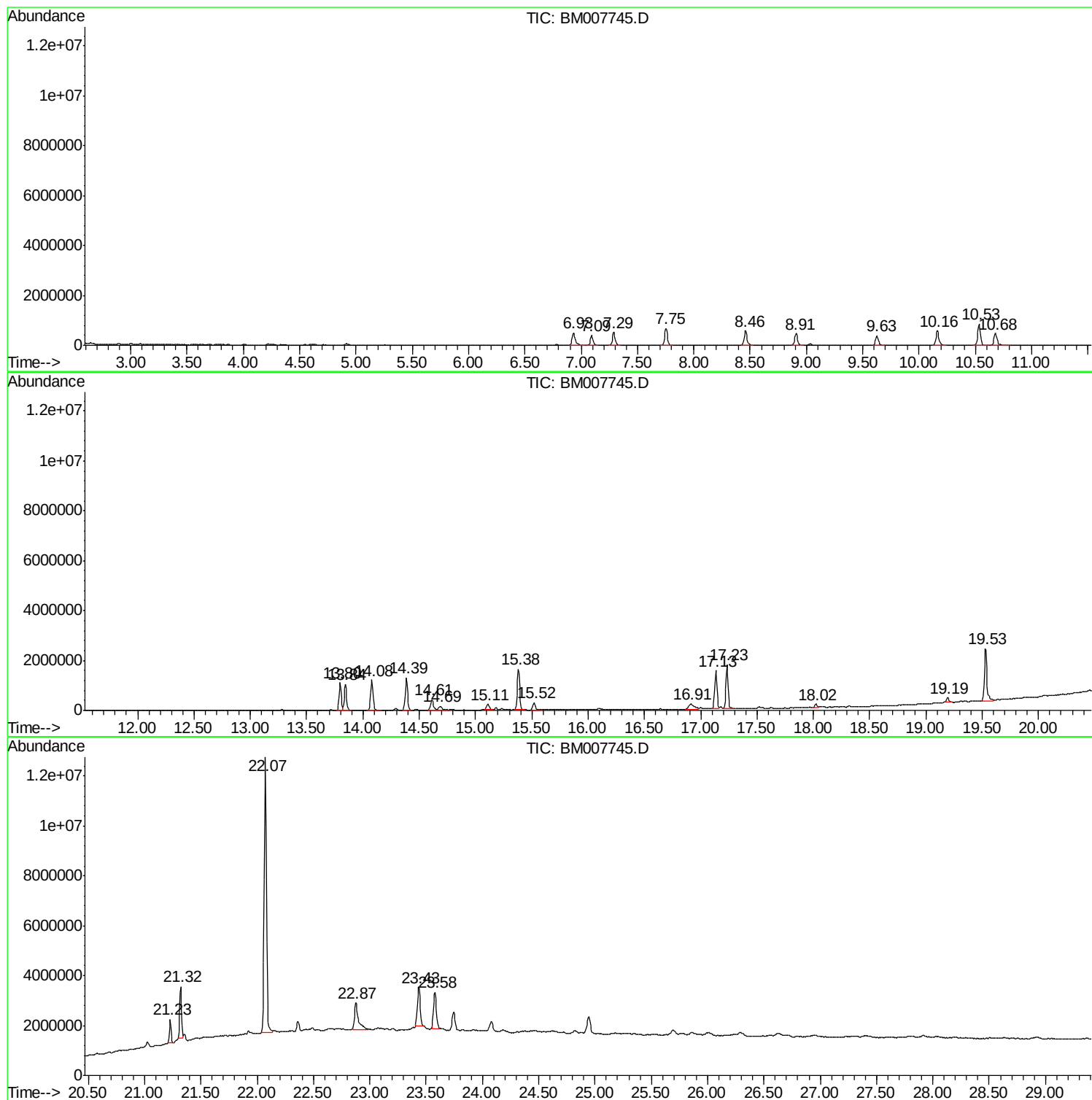
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM102016.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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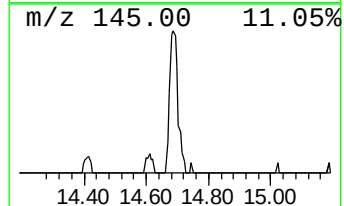
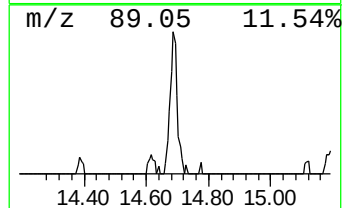
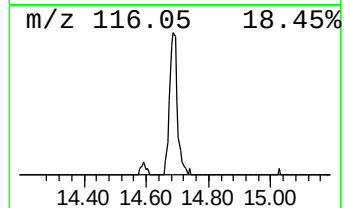
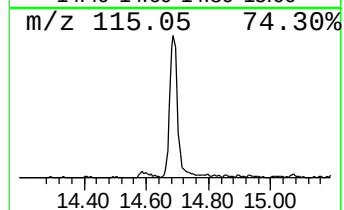
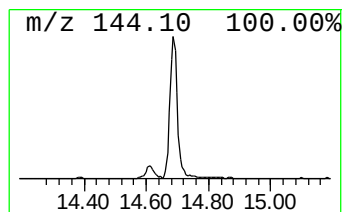
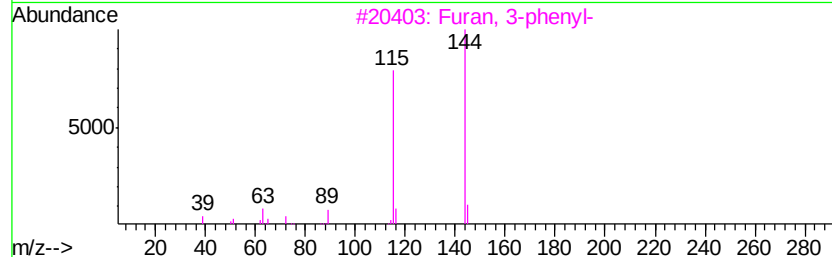
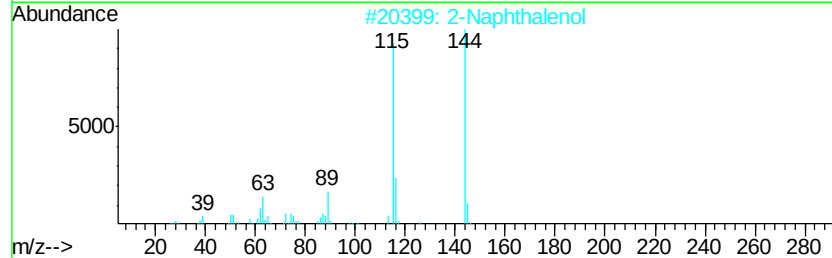
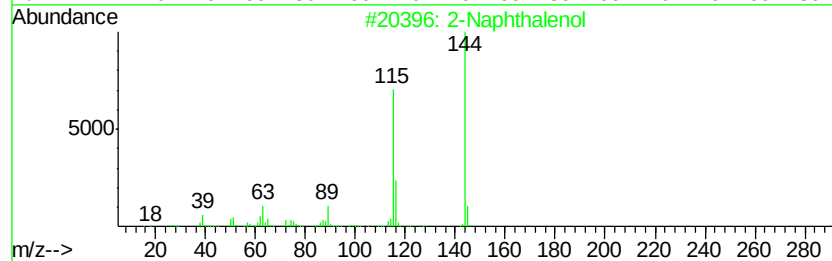
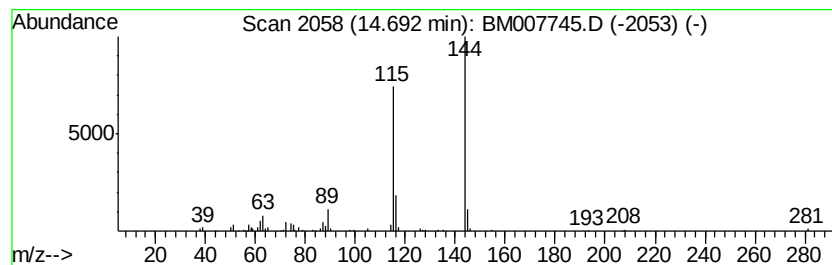
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Peak Number 1 2-Naphthalenol Concentration Rank 4

| R.T.    | EstConc          | Area         | Relative to ISTD | R.T.      |
|---------|------------------|--------------|------------------|-----------|
| 14.69   | 2.79 ng/ul       | 265578       | Acenaphthene-d10 | 14.39     |
| Hit# of | 5                | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 2-Naphthalenol   | 144 C10H8O   | 000135-19-3      | 94        |
| 2       | 2-Naphthalenol   | 144 C10H8O   | 000135-19-3      | 94        |
| 3       | Furan, 3-phenyl- | 144 C10H8O   | 013679-41-9      | 91        |
| 4       | 1-Naphthalenol   | 144 C10H8O   | 000090-15-3      | 86        |
| 5       | 1-Naphthalenol   | 144 C10H8O   | 000090-15-3      | 86        |



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PRERV-SS012-0003-01

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM102016.M  
Quant Title : SVOA CALIBRATION

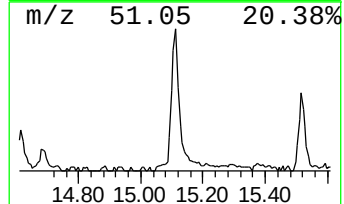
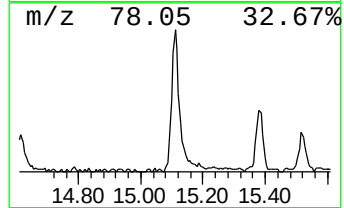
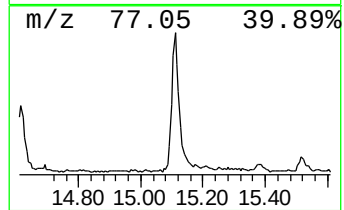
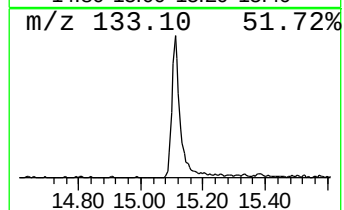
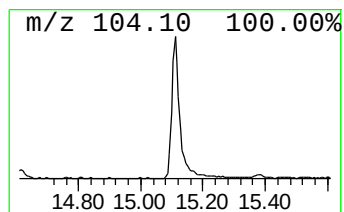
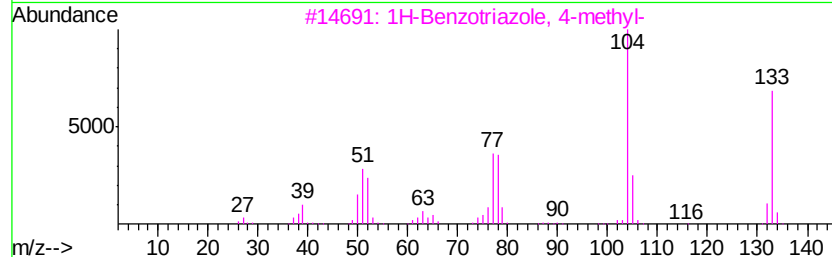
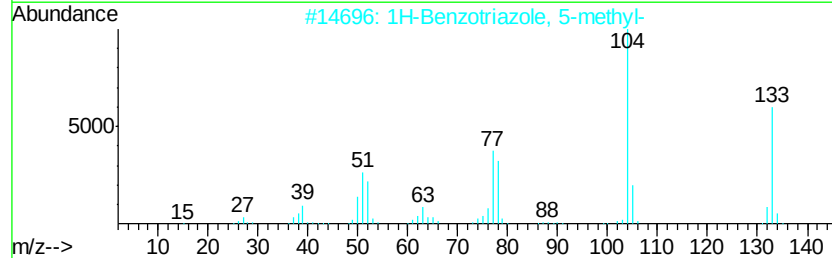
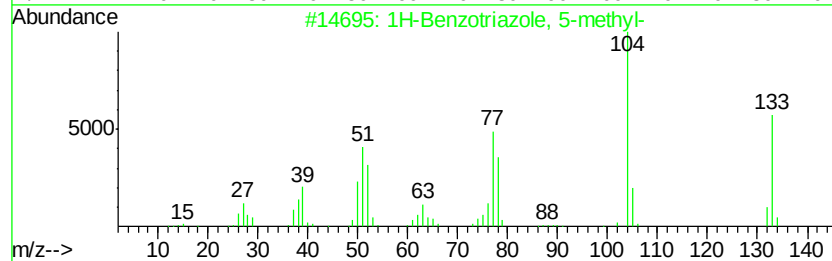
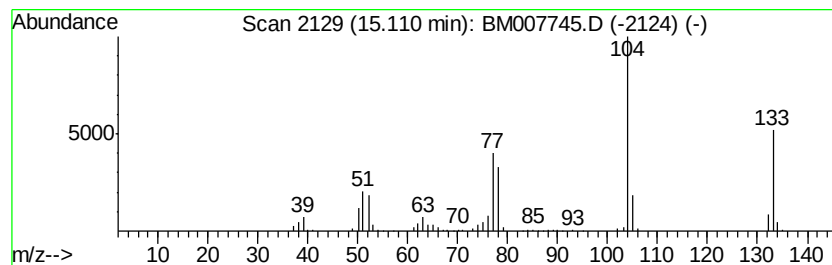
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 1H-Benzotriazole, 5-methyl- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.11 | 3.86 ng/ul | 368473 | Acenaphthene-d10 | 14.39 |

| Hit# of | 5                           | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-----------------------------|--------------|--------|-------------|------|------|
| 1       | 1H-Benzotriazole, 5-methyl- | 133          | C7H7N3 | 000136-85-6 | 97   |      |
| 2       | 1H-Benzotriazole, 5-methyl- | 133          | C7H7N3 | 000136-85-6 | 97   |      |
| 3       | 1H-Benzotriazole, 4-methyl- | 133          | C7H7N3 | 029878-31-7 | 95   |      |
| 4       | 1H-Benzotriazole, 5-methyl- | 133          | C7H7N3 | 000136-85-6 | 93   |      |
| 5       | 1H-Benzotriazole, 4-methyl- | 133          | C7H7N3 | 029878-31-7 | 86   |      |



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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM102016.M  
Quant Title : SVOA CALIBRATION

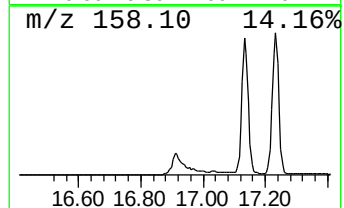
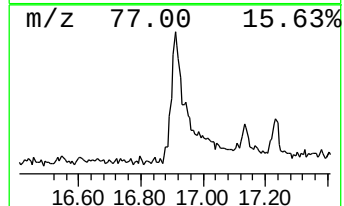
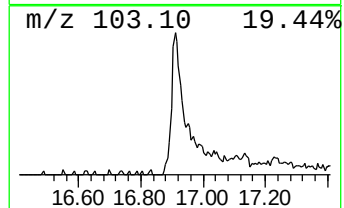
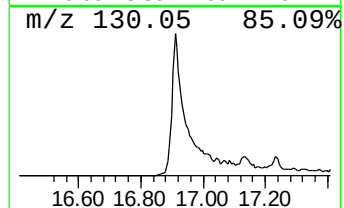
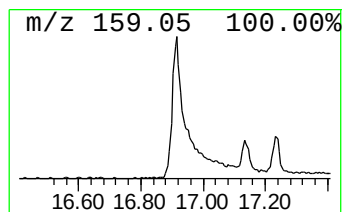
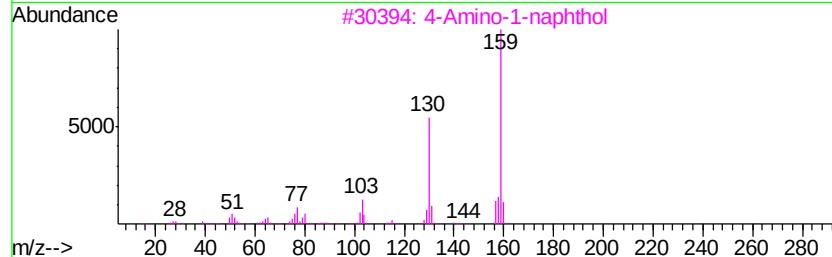
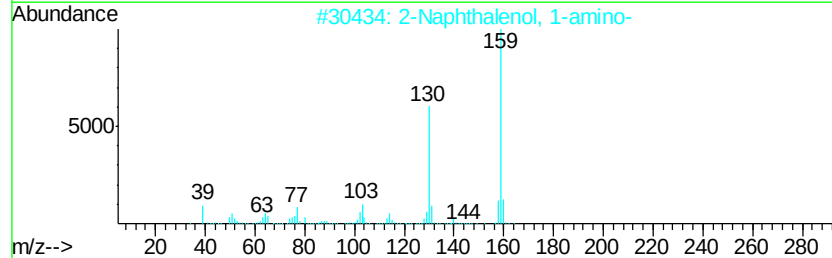
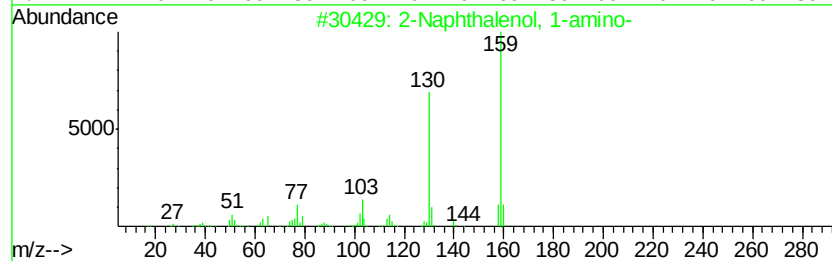
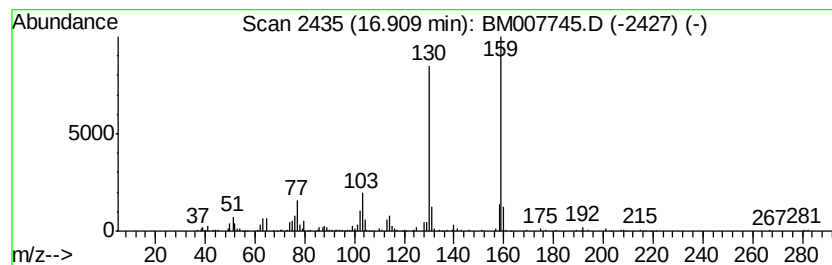
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Naphthalenol, 1-amino- Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.91 | 7.15 ng/ul | 769370 | Phenanthrene-d10 | 17.13 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Naphthalenol, 1-amino-     | 159 | C10H9NO | 002834-92-6 | 96   |
| 2    |    | 2-Naphthalenol, 1-amino-     | 159 | C10H9NO | 002834-92-6 | 93   |
| 3    |    | 4-Amino-1-naphthol           | 159 | C10H9NO | 002834-90-4 | 91   |
| 4    |    | 2(1H)-Quinolinone, 3-methyl- | 159 | C10H9NO | 002721-59-7 | 91   |
| 5    |    | 8-Quinolinol, 7-methyl-      | 159 | C10H9NO | 005541-68-4 | 90   |



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Quant Title : SVOA CALIBRATION

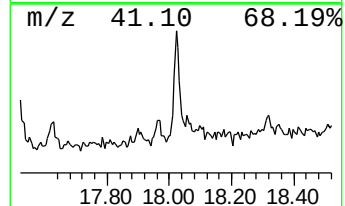
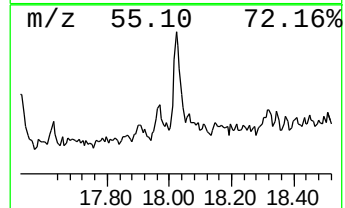
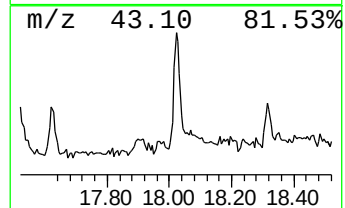
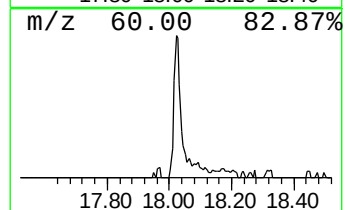
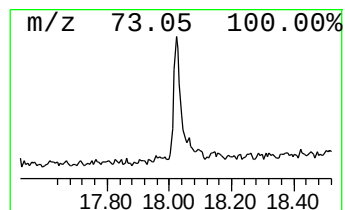
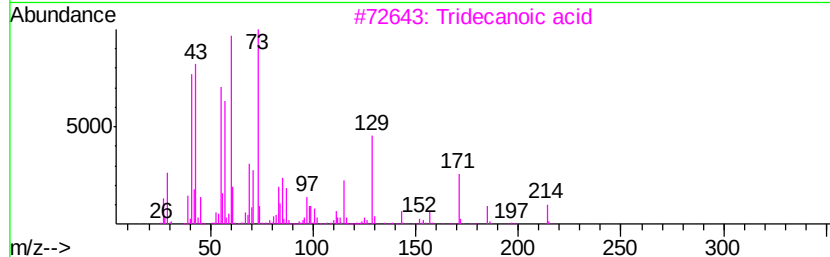
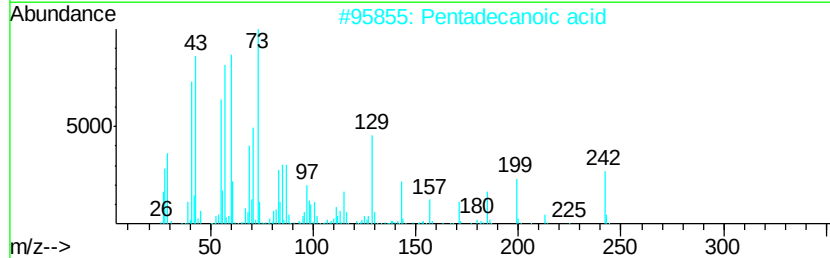
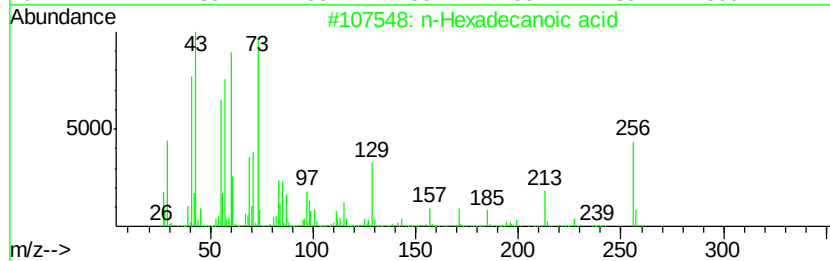
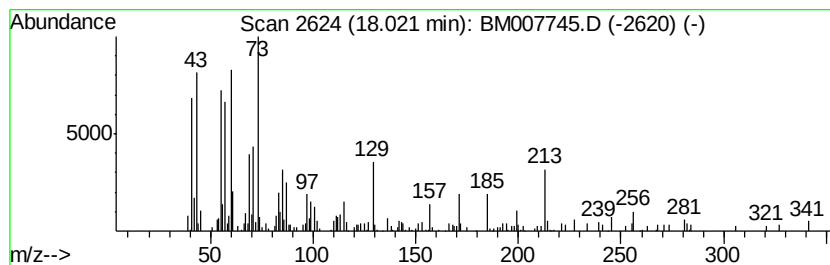
TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.02 | 2.00 ng/ul | 215372 | Phenanthrene-d10 | 17.13 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90   |
| 2    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 72   |
| 3    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 70   |
| 4    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 70   |
| 5    |    |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 64   |



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Quant Title : SVOA CALIBRATION

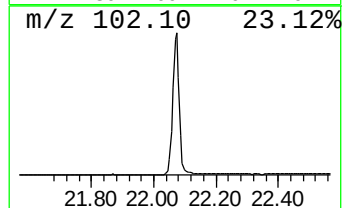
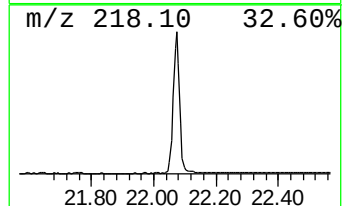
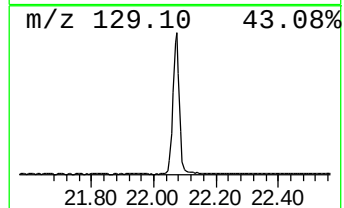
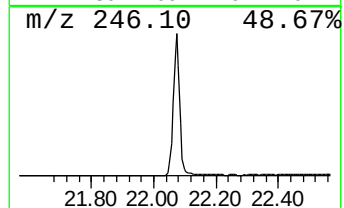
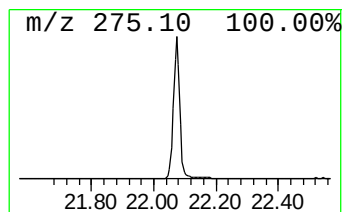
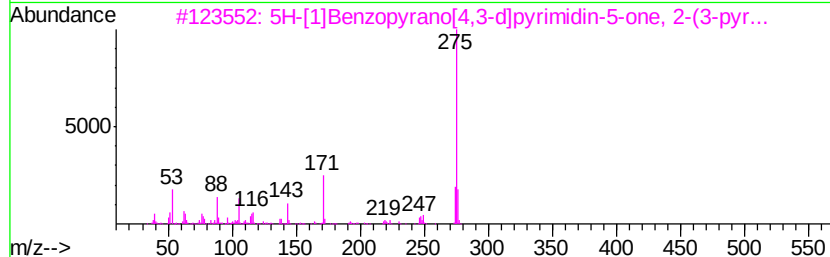
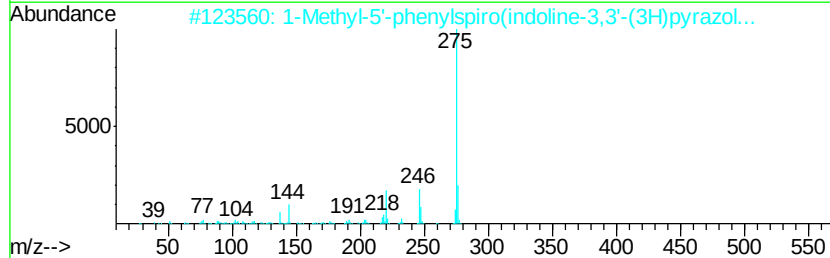
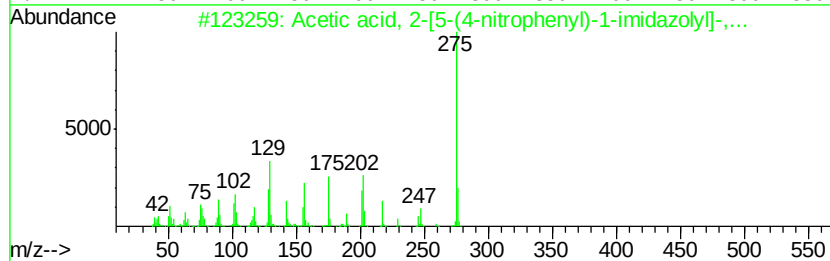
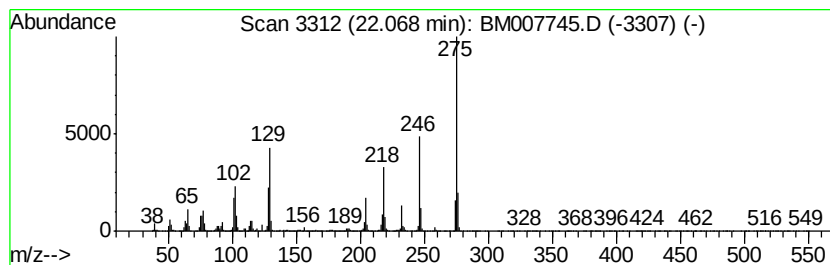
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Acetic acid, 2-[5-(4-nitrop... Concentration Rank 1

| R.T.  | EstConc      | Area     | Relative to ISTD | R.T.  |
|-------|--------------|----------|------------------|-------|
| 22.07 | 125.66 ng/ul | 16045900 | Chrysene-d12     | 21.32 |

| Hit# | of | Tentative ID                         | MW  | MolForm    | CAS#         | Qual |
|------|----|--------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Acetic acid, 2-[5-(4-nitrophenyl)... | 275 | C13H13N3O4 | 351064-45-4  | 58   |
| 2    |    | 1-Methyl-5'-phenylspiro(indoline...  | 275 | C17H13N3O  | 015970-21-5  | 43   |
| 3    |    | 5H-[1]Benzopyrano[4,3-d]pyrimidi...  | 275 | C16H9N3O2  | 1000337-49-1 | 42   |
| 4    |    | 8H-Benzo[g]-1,3-benzodioxolo[6,5...  | 275 | C17H9NO3   | 000475-75-2  | 38   |
| 5    |    | 3,5-Diamino-6-[3,4-diethoxypheny...  | 275 | C13H17N5O2 | 058848-69-4  | 38   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM102816\  
Data File : BM007745.D  
Acq On : 28 Oct 2016 16:25  
Operator : UM/SJ  
Sample : H5442-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PRERV-SS012-0003-01

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM102016.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Naphthalenol       | 14.69 | 2.8     | ng/ul | 265578   | 3                     | 14.39 | 1906890 | 20.0 |
| 1H-Benzotriazole,... | 15.11 | 3.9     | ng/ul | 368473   | 3                     | 14.39 | 1906890 | 20.0 |
| 2-Naphthalenol, 1... | 16.91 | 7.2     | ng/ul | 769370   | 4                     | 17.13 | 2152070 | 20.0 |
| n-Hexadecanoic acid  | 18.02 | 2.0     | ng/ul | 215372   | 4                     | 17.13 | 2152070 | 20.0 |
| Acetic acid, 2-[5... | 22.07 | 125.7   | ng/ul | 16045900 | 5                     | 21.32 | 2553810 | 20.0 |