

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042016\  
 Data File : BM004993.D  
 Acq On : 20 Apr 2016 16:08  
 Operator : UM/SJ  
 Sample : H2566-07  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 X2390

## 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-BM041416.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         | 6.975       | 723           | 729         | 743          | rBV      | 98908          | 159978        | 12.46%          | 0.979%        |
| 2         | 7.140       | 752           | 757         | 768          | rBV      | 94786          | 148858        | 11.60%          | 0.911%        |
| 3         | 7.234       | 768           | 773         | 781          | rBV      | 129708         | 193776        | 15.10%          | 1.186%        |
| 4         | 7.340       | 786           | 791         | 803          | rBB2     | 114967         | 205248        | 15.99%          | 1.256%        |
| 5         | 7.810       | 865           | 871         | 881          | rBB      | 113451         | 179806        | 14.01%          | 1.101%        |
| 6         | 8.334       | 953           | 960         | 967          | rBV2     | 72298          | 176846        | 13.78%          | 1.083%        |
| 7         | 8.510       | 984           | 990         | 1002         | rBV      | 122608         | 201556        | 15.70%          | 1.234%        |
| 8         | 8.604       | 1002          | 1006        | 1012         | rVB      | 24981          | 37659         | 2.93%           | 0.231%        |
| 9         | 8.881       | 1048          | 1053        | 1059         | rBB      | 68115          | 109440        | 8.53%           | 0.670%        |
| 10        | 8.963       | 1061          | 1067        | 1081         | rBB      | 104036         | 173020        | 13.48%          | 1.059%        |
| 11        | 9.522       | 1157          | 1162        | 1169         | rBB      | 20323          | 29880         | 2.33%           | 0.183%        |
| 12        | 9.687       | 1185          | 1190        | 1199         | rBB      | 46182          | 75930         | 5.92%           | 0.465%        |
| 13        | 10.010      | 1239          | 1245        | 1258         | rBB      | 166036         | 258631        | 20.15%          | 1.583%        |
| 14        | 10.216      | 1275          | 1280        | 1296         | rBV2     | 131772         | 323815        | 25.23%          | 1.982%        |
| 15        | 10.598      | 1337          | 1345        | 1350         | rBV      | 167489         | 282854        | 22.04%          | 1.732%        |
| 16        | 10.645      | 1350          | 1353        | 1363         | rVB      | 58008          | 94345         | 7.35%           | 0.578%        |
| 17        | 12.481      | 1659          | 1665        | 1675         | rBV      | 147507         | 225769        | 17.59%          | 1.382%        |
| 18        | 12.628      | 1681          | 1690        | 1699         | rBB2     | 126176         | 302941        | 23.60%          | 1.854%        |
| 19        | 12.939      | 1738          | 1743        | 1756         | rBV      | 101135         | 164568        | 12.82%          | 1.007%        |
| 20        | 13.316      | 1801          | 1807        | 1818         | rBV      | 226329         | 349823        | 27.25%          | 2.141%        |
| 21        | 13.851      | 1893          | 1898        | 1903         | rBV      | 105267         | 142022        | 11.06%          | 0.869%        |
| 22        | 14.022      | 1922          | 1927        | 1934         | rBB      | 135401         | 180831        | 14.09%          | 1.107%        |
| 23        | 14.139      | 1940          | 1947        | 1961         | rVB2     | 337953         | 634391        | 49.42%          | 3.884%        |
| 24        | 14.339      | 1977          | 1981        | 1985         | rBB      | 15012          | 17426         | 1.36%           | 0.107%        |
| 25        | 14.445      | 1993          | 1999        | 2006         | rVV2     | 245663         | 373844        | 29.12%          | 2.289%        |
| 26        | 14.510      | 2006          | 2010        | 2015         | rVB      | 10331          | 13366         | 1.04%           | 0.082%        |
| 27        | 14.651      | 2029          | 2034        | 2041         | rBV      | 18209          | 38229         | 2.98%           | 0.234%        |
| 28        | 14.810      | 2057          | 2061        | 2063         | rBV      | 44137          | 54280         | 4.23%           | 0.332%        |
| 29        | 14.845      | 2063          | 2067        | 2073         | rVB      | 119049         | 174444        | 13.59%          | 1.068%        |
| 30        | 15.292      | 2137          | 2143        | 2148         | rVB      | 25791          | 32151         | 2.50%           | 0.197%        |
| 31        | 15.439      | 2162          | 2168        | 2172         | rBV      | 492226         | 690471        | 53.79%          | 4.227%        |
| 32        | 15.492      | 2172          | 2177        | 2185         | rVV2     | 486157         | 723670        | 56.38%          | 4.430%        |
| 33        | 15.557      | 2185          | 2188        | 2193         | rVB      | 10624          | 13501         | 1.05%           | 0.083%        |
| 34        | 15.692      | 2204          | 2211        | 2216         | rBV3     | 8385           | 20248         | 1.58%           | 0.124%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 16.151 | 2284 | 2289 | 2303 | rBV  | 28138  | 51158   | 3.99%   | 0.313% |
| 36 | 16.380 | 2323 | 2328 | 2336 | rVB  | 168005 | 226991  | 17.68%  | 1.390% |
| 37 | 16.498 | 2343 | 2348 | 2355 | rBV  | 154254 | 212249  | 16.54%  | 1.299% |
| 38 | 16.839 | 2401 | 2406 | 2417 | rVB  | 135228 | 186583  | 14.54%  | 1.142% |
| 39 | 16.945 | 2418 | 2424 | 2428 | rVV  | 14451  | 19707   | 1.54%   | 0.121% |
| 40 | 17.192 | 2460 | 2466 | 2472 | rBV  | 322116 | 453160  | 35.30%  | 2.774% |
| 41 | 17.292 | 2477 | 2483 | 2486 | rVV  | 557782 | 845530  | 65.87%  | 5.176% |
| 42 | 17.321 | 2486 | 2488 | 2500 | rVB  | 224087 | 288342  | 22.46%  | 1.765% |
| 43 | 17.598 | 2527 | 2535 | 2545 | rBV  | 162942 | 247357  | 19.27%  | 1.514% |
| 44 | 19.586 | 2867 | 2873 | 2889 | rVB  | 748344 | 1043962 | 81.33%  | 6.391% |
| 45 | 20.121 | 2956 | 2964 | 2968 | rBV  | 23437  | 30164   | 2.35%   | 0.185% |
| 46 | 20.509 | 3026 | 3030 | 3035 | rBV  | 278173 | 315370  | 24.57%  | 1.931% |
| 47 | 20.621 | 3045 | 3049 | 3053 | rBV  | 40580  | 44782   | 3.49%   | 0.274% |
| 48 | 21.080 | 3123 | 3127 | 3138 | rBV  | 135363 | 199112  | 15.51%  | 1.219% |
| 49 | 21.286 | 3159 | 3162 | 3168 | rVB  | 28024  | 34714   | 2.70%   | 0.213% |
| 50 | 21.368 | 3170 | 3176 | 3187 | rBV2 | 658545 | 1283585 | 100.00% | 7.858% |
| 51 | 21.521 | 3198 | 3202 | 3211 | rBV  | 111315 | 126051  | 9.82%   | 0.772% |
| 52 | 21.962 | 3273 | 3277 | 3285 | rBV  | 135926 | 171458  | 13.36%  | 1.050% |
| 53 | 22.180 | 3308 | 3314 | 3319 | rBV  | 327246 | 401746  | 31.30%  | 2.459% |
| 54 | 22.433 | 3352 | 3357 | 3364 | rBV  | 118586 | 161211  | 12.56%  | 0.987% |
| 55 | 22.568 | 3376 | 3380 | 3384 | rBV  | 27614  | 36719   | 2.86%   | 0.225% |
| 56 | 22.974 | 3440 | 3449 | 3454 | rBV  | 439038 | 929274  | 72.40%  | 5.689% |
| 57 | 23.021 | 3454 | 3457 | 3466 | rVB  | 218473 | 353828  | 27.57%  | 2.166% |
| 58 | 23.521 | 3535 | 3542 | 3557 | rVV2 | 541088 | 1052126 | 81.97%  | 6.441% |
| 59 | 23.668 | 3560 | 3567 | 3582 | rVB2 | 275785 | 566660  | 44.15%  | 3.469% |
| 60 | 24.186 | 3650 | 3655 | 3664 | rVB  | 54478  | 107204  | 8.35%   | 0.656% |
| 61 | 24.280 | 3667 | 3671 | 3676 | rVB6 | 10751  | 18424   | 1.44%   | 0.113% |
| 62 | 24.950 | 3779 | 3785 | 3793 | rVB2 | 33313  | 72120   | 5.62%   | 0.441% |
| 63 | 25.839 | 3931 | 3936 | 3945 | rVB2 | 21816  | 52314   | 4.08%   | 0.320% |

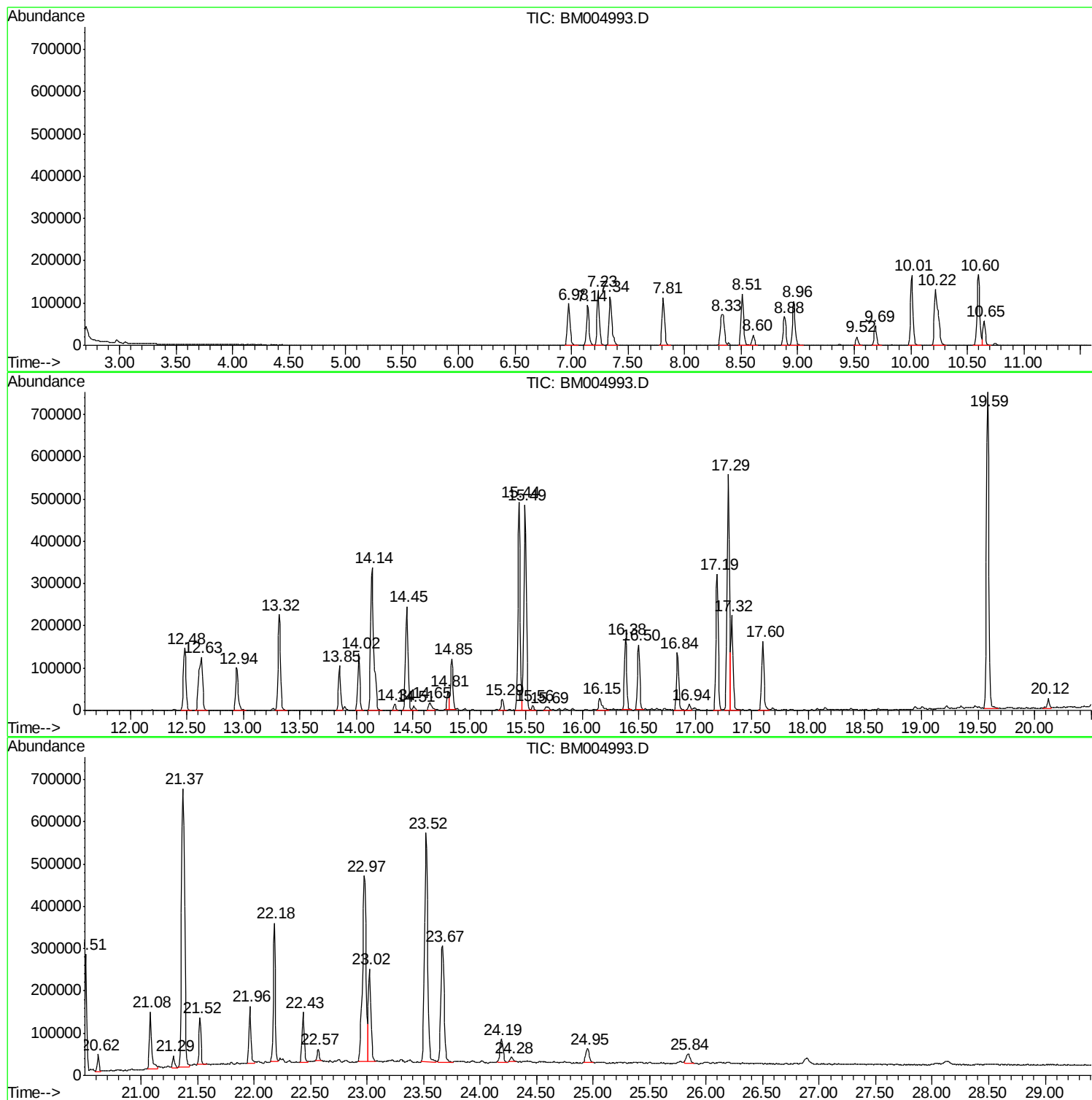
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM041416.M  
Quant Title : SVOA CALIBRATION

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



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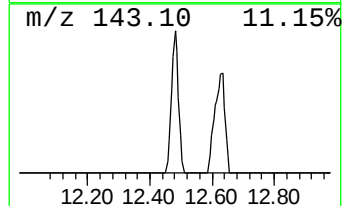
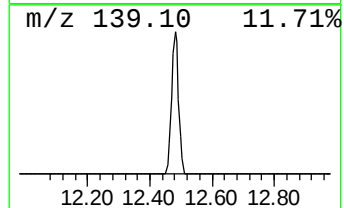
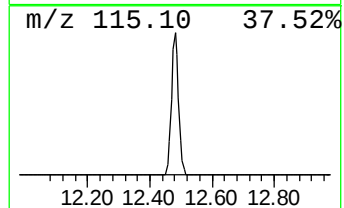
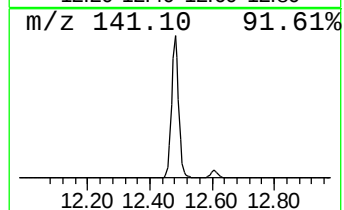
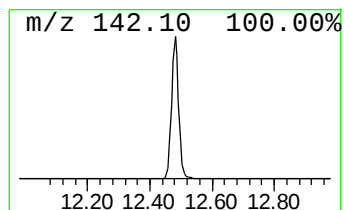
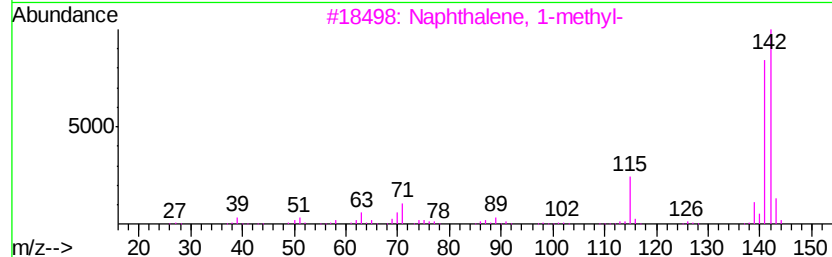
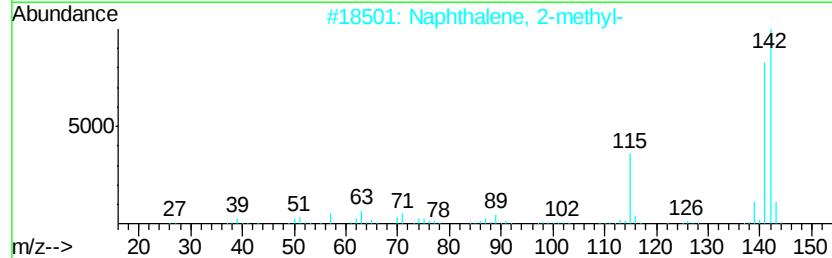
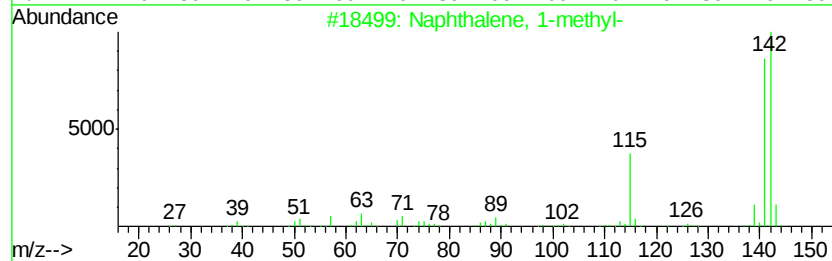
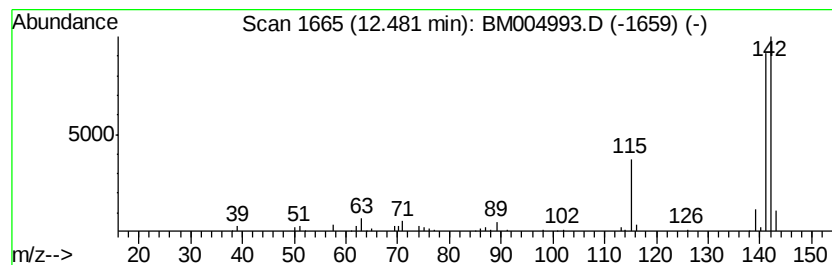
Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM041416.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 1

| R.T.    | EstConc     | Area                   | Relative to ISTD | R.T.    |             |      |
|---------|-------------|------------------------|------------------|---------|-------------|------|
| 12.48   | 15.96 ng/ul | 225769                 | Naphthalene-d8   | 10.60   |             |      |
| Hit# of | 5           | Tentative ID           | MW               | MolForm | CAS#        | Qual |
| 1       |             | Naphthalene, 1-methyl- | 142              | C11H10  | 000090-12-0 | 96   |
| 2       |             | Naphthalene, 2-methyl- | 142              | C11H10  | 000091-57-6 | 96   |
| 3       |             | Naphthalene, 1-methyl- | 142              | C11H10  | 000090-12-0 | 94   |
| 4       |             | Naphthalene, 1-methyl- | 142              | C11H10  | 000090-12-0 | 91   |
| 5       |             | Benzocycloheptatriene  | 142              | C11H10  | 000264-09-5 | 91   |



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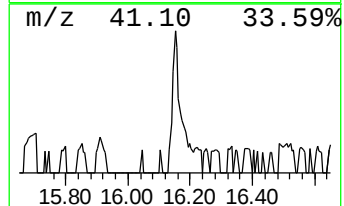
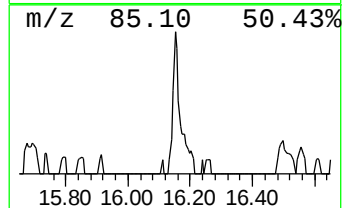
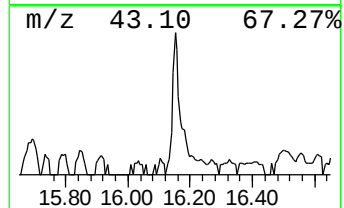
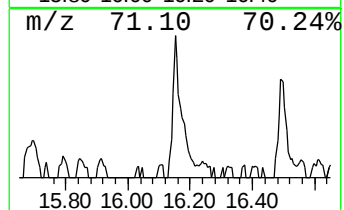
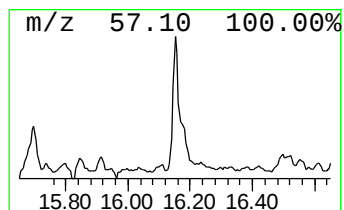
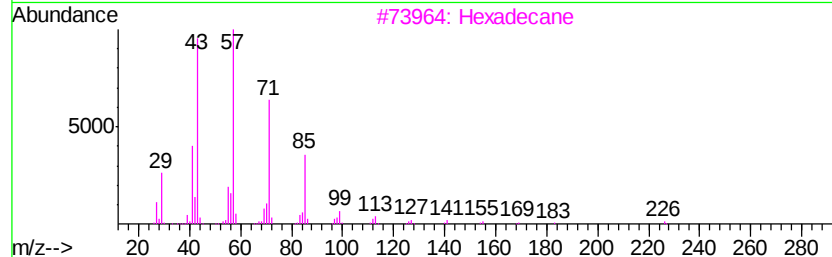
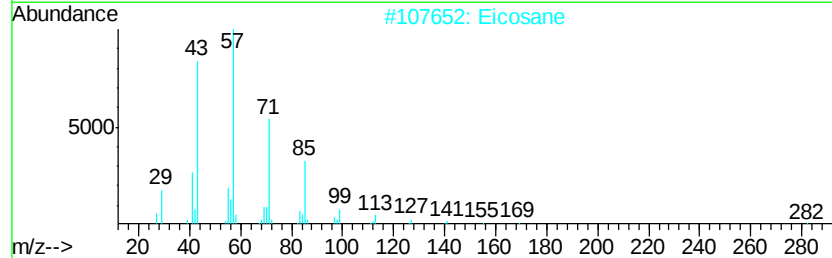
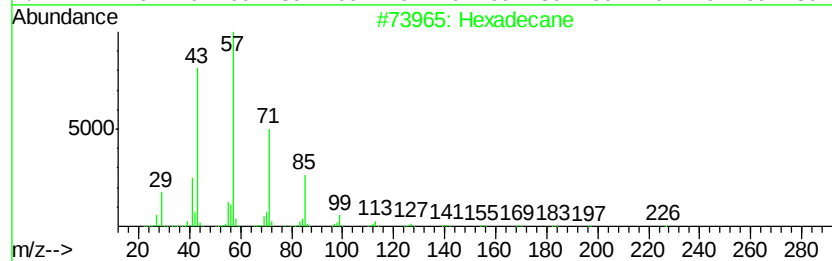
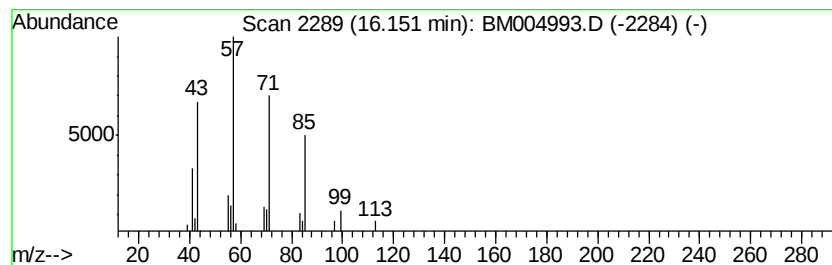
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 16.15 | 2.26 ng/ul | 51158 | Phenanthrene-d10 | 17.19 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane   | 226 | C16H34  | 000544-76-3 | 78   |
| 2    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 72   |
| 3    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 64   |
| 4    |    | Pentadecane  | 212 | C15H32  | 000629-62-9 | 64   |
| 5    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 64   |



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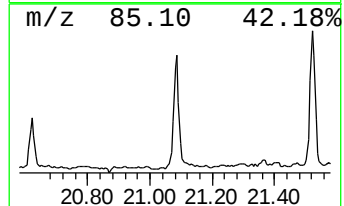
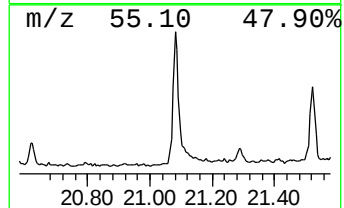
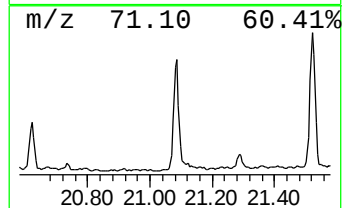
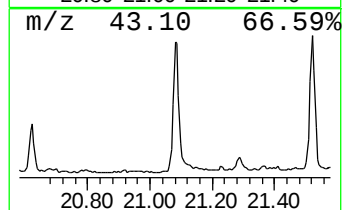
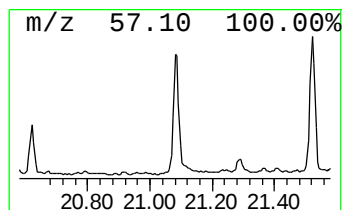
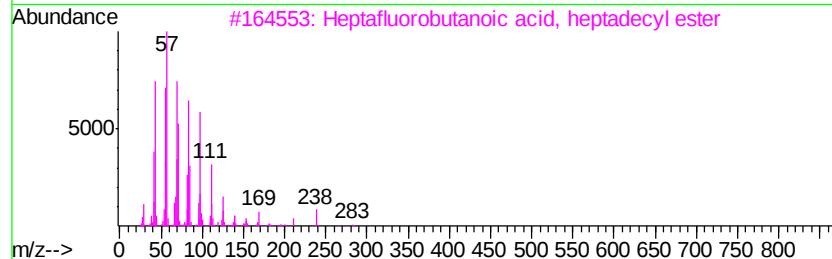
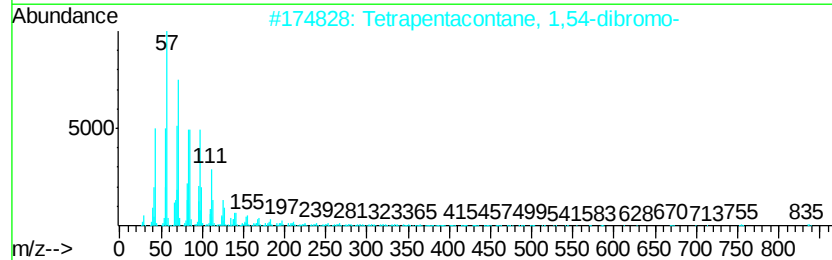
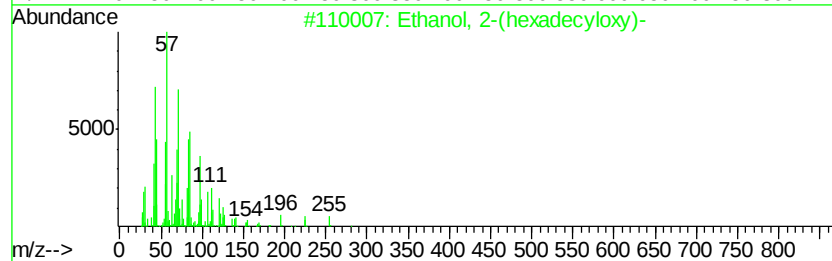
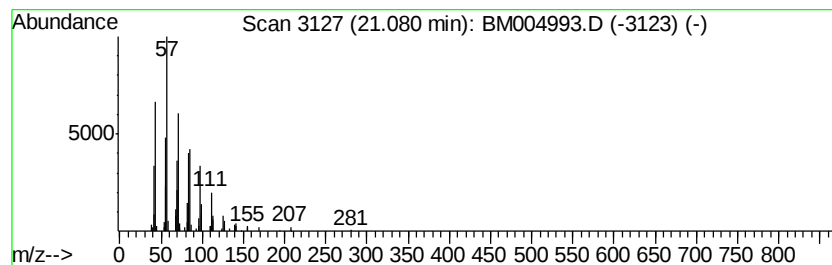
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Ethanol, 2-(hexadecyloxy)- Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.08 | 3.10 ng/ul | 199112 | Chrysene-d12     | 21.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Ethanol, 2-(hexadecyloxy)-          | 286 | C18H38O2   | 002136-71-2  | 87   |
| 2    |    | Tetrapentacontane, 1,54-dibromo-    | 915 | C54H108Br2 | 1000156-09-4 | 86   |
| 3    |    | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 70   |
| 4    |    | Ethanol, 2-(tetradecyloxy)-         | 258 | C16H34O2   | 002136-70-1  | 68   |
| 5    |    | Tritetracontane                     | 605 | C43H88     | 007098-21-7  | 64   |



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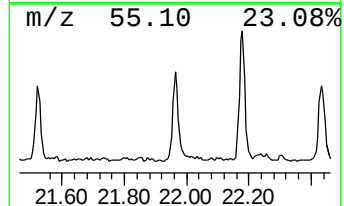
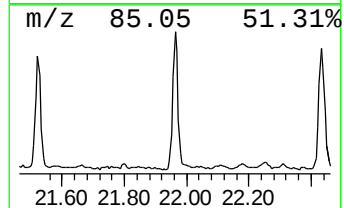
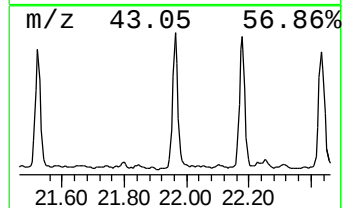
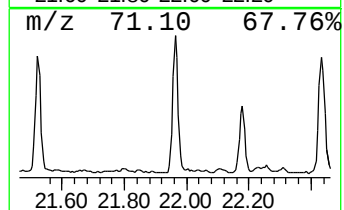
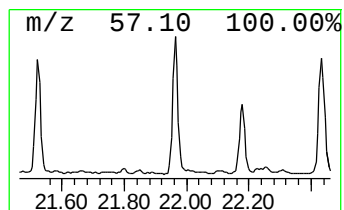
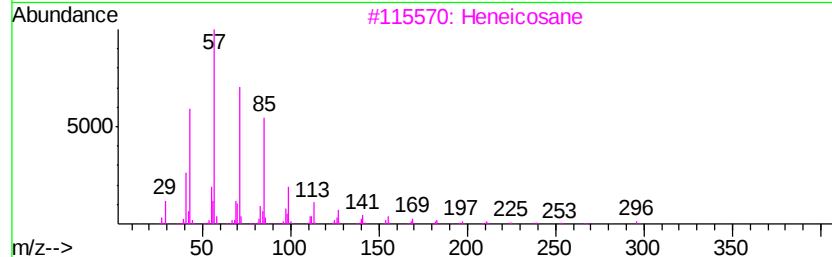
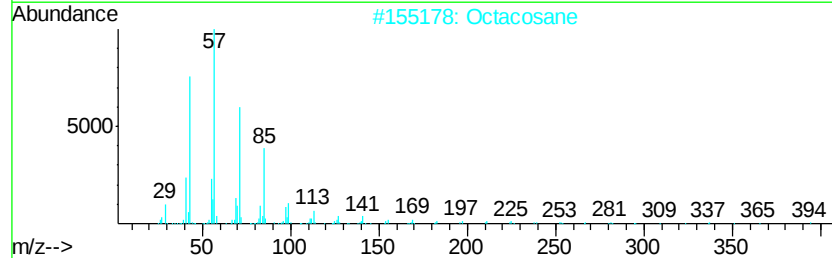
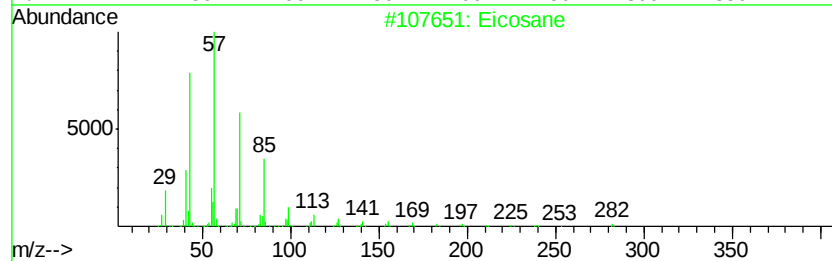
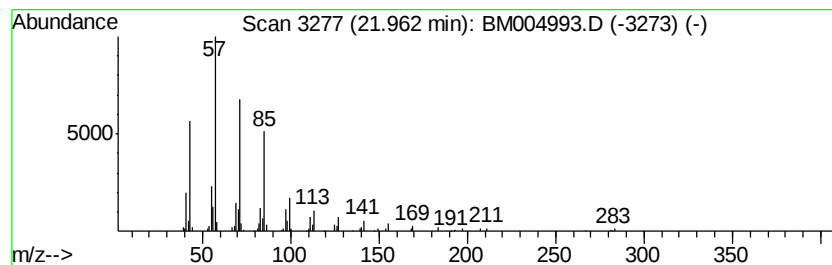
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.96 | 2.67 ng/ul | 171458 | Chrysene-d12     | 21.38 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane     | 282 | C20H42  | 000112-95-8 | 96   |
| 2    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 91   |
| 4    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 91   |
| 5    |    | Triacontane  | 422 | C30H62  | 000638-68-6 | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042016\  
Data File : BM004993.D  
Acq On : 20 Apr 2016 16:08  
Operator : UM/SJ  
Sample : H2566-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X2390

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM041416.M  
Quant Title : SVOA CALIBRATION

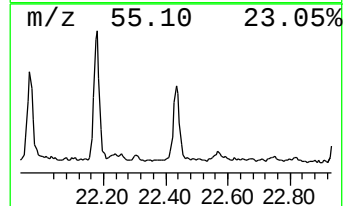
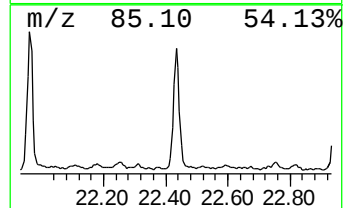
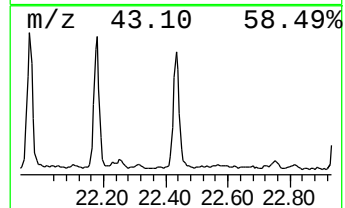
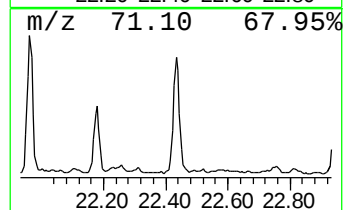
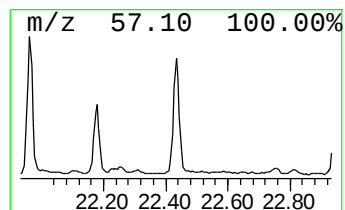
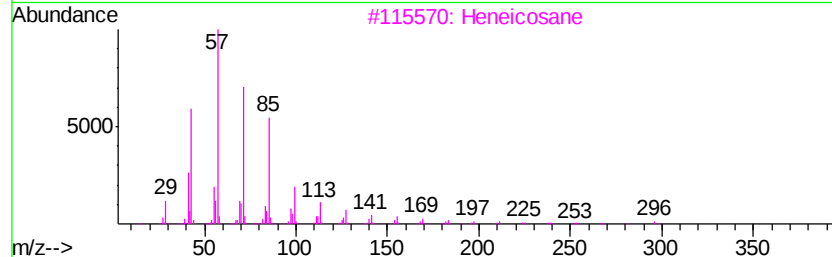
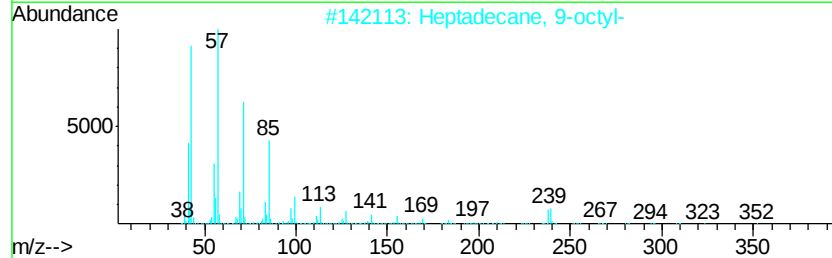
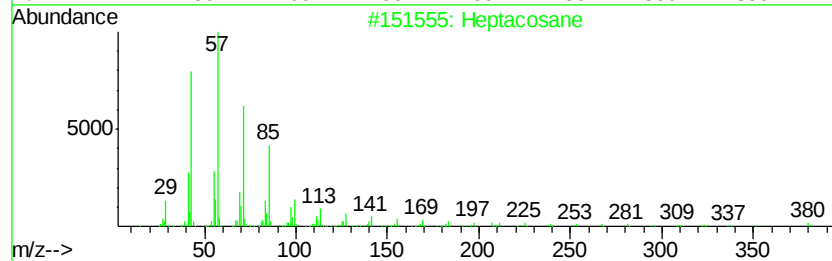
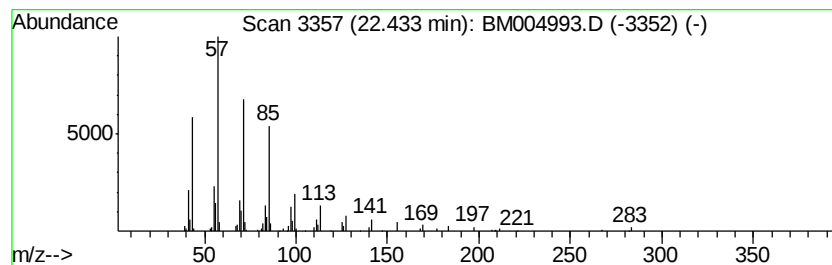
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.43 | 2.51 ng/ul | 161211 | Chrysene-d12     | 21.38 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane           | 380 | C27H56  | 000593-49-7 | 91   |
| 2    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 3    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 4    |    | Tetratriacontane      | 479 | C34H70  | 014167-59-0 | 91   |
| 5    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042016\  
Data File : BM004993.D  
Acq On : 20 Apr 2016 16:08  
Operator : UM/SJ  
Sample : H2566-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X2390

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM041416.M  
Quant Title : SVOA CALIBRATION

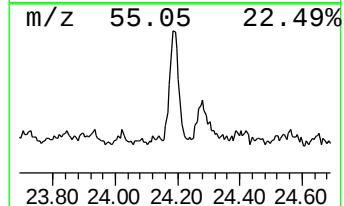
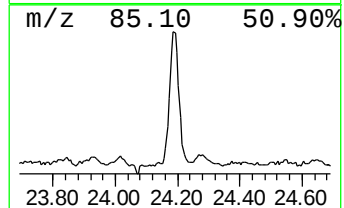
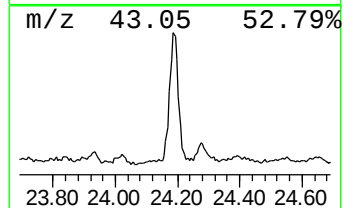
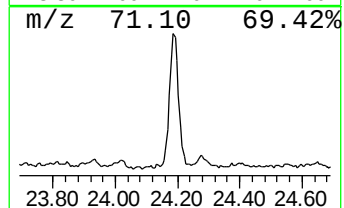
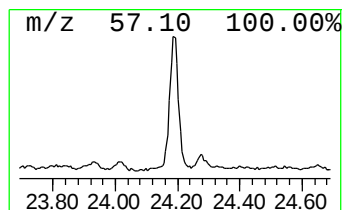
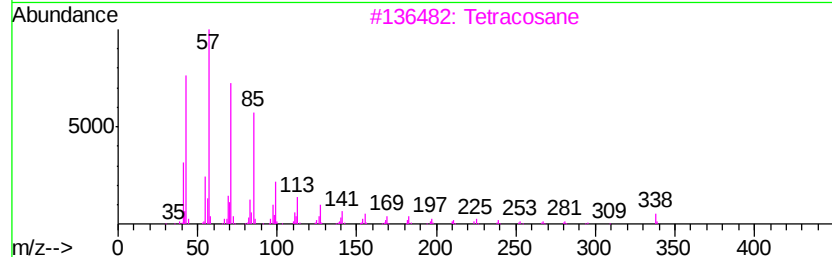
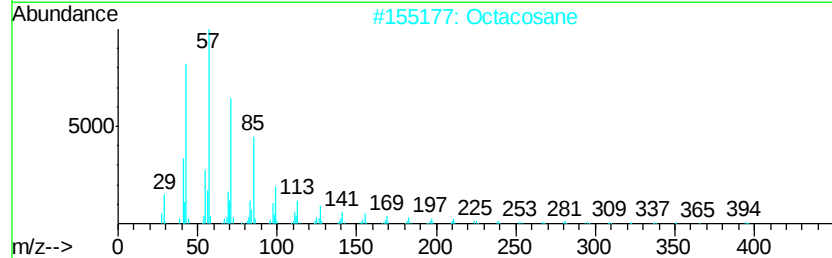
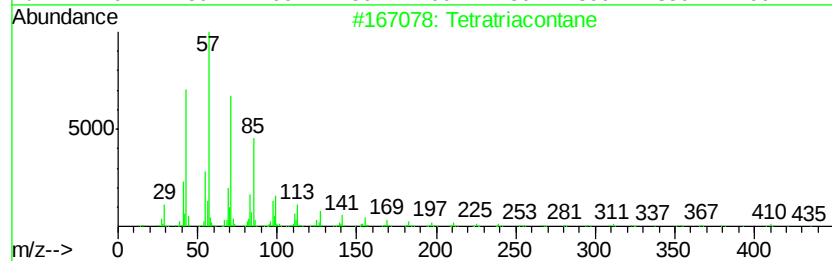
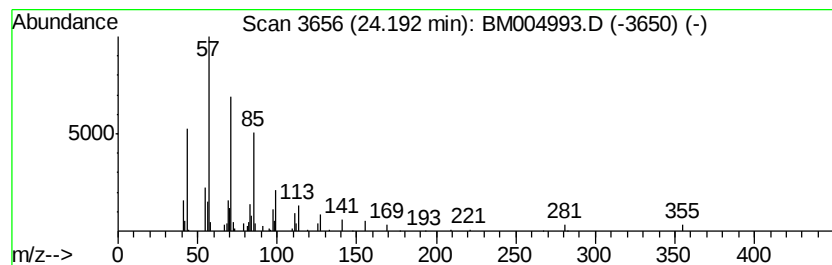
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.19 | 3.78 ng/ul | 107204 | Perylene-d12     | 23.67 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Tetratriacontane      | 479 | C34H70  | 014167-59-0 | 91   |
| 2    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    |   | Tetracosane           | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    |   | Heneicosane           | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042016\  
Data File : BM004993.D  
Acq On : 20 Apr 2016 16:08  
Operator : UM/SJ  
Sample : H2566-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X2390

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM041416.M  
Quant Title : SVOA CALIBRATION

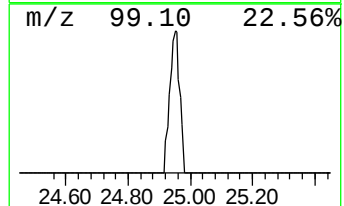
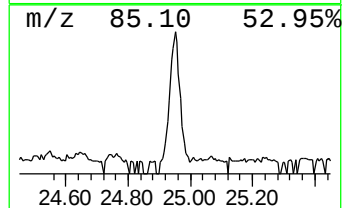
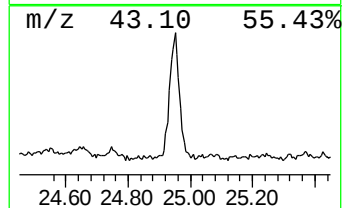
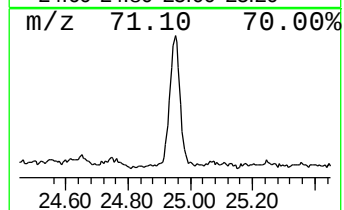
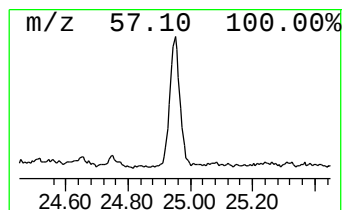
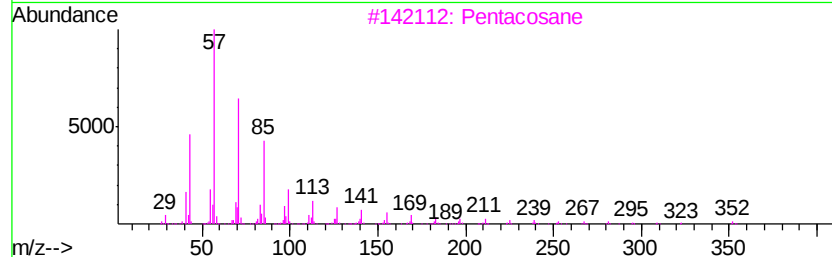
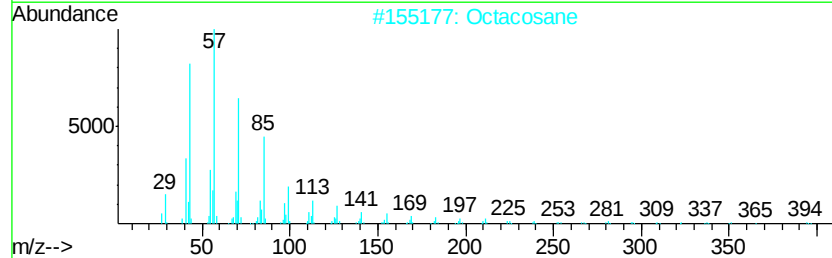
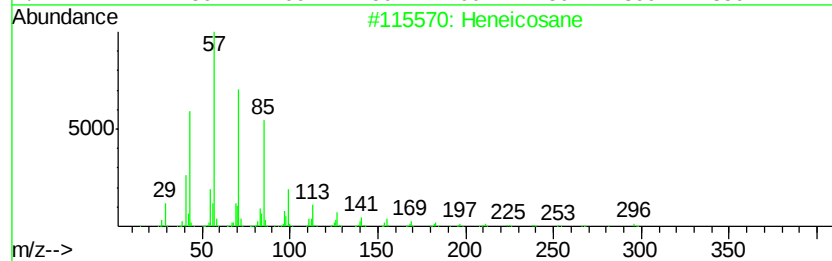
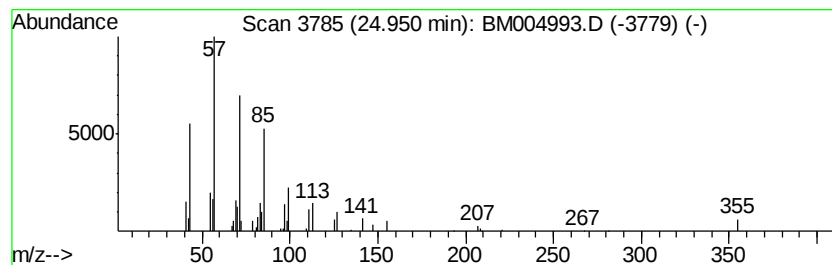
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 24.95 | 2.55 ng/ul | 72120 | Perylene-d12     | 23.67 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane         | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Octacosane          | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Pentacosane         | 352 | C25H52  | 000629-99-2 | 91   |
| 4    |    | Tetratriacontane    | 479 | C34H70  | 014167-59-0 | 90   |
| 5    |    | Docosane, 11-butyl- | 366 | C26H54  | 013475-76-8 | 90   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM042016\  
Data File : BM004993.D  
Acq On : 20 Apr 2016 16:08  
Operator : UM/SJ  
Sample : H2566-07  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
X2390

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM041416.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 |
| Naphthalene, 1-me... | 12.48 | 16.0    | ng/ul | 225769   | 2                     | 10.60 | 282854  | 20.0 |
| (DEL) Alkane: Str... | 16.15 | 2.3     | ng/ul | 51158    | 4                     | 17.19 | 453160  | 20.0 |
| Ethanol, 2-(hexad... | 21.08 | 3.1     | ng/ul | 199112   | 5                     | 21.38 | 1283590 | 20.0 |
| (DEL) Alkane: Str... | 21.96 | 2.7     | ng/ul | 171458   | 5                     | 21.38 | 1283590 | 20.0 |
| (DEL) Alkane: Str... | 22.43 | 2.5     | ng/ul | 161211   | 5                     | 21.38 | 1283590 | 20.0 |
| (DEL) Alkane: Str... | 24.19 | 3.8     | ng/ul | 107204   | 6                     | 23.67 | 566660  | 20.0 |
| (DEL) Alkane: Str... | 24.95 | 2.5     | ng/ul | 72120    | 6                     | 23.67 | 566660  | 20.0 |