

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090316\  
 Data File : BM007387.D  
 Acq On : 03 Sep 2016 02:58  
 Operator : UM/SJ  
 Sample : H4639-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BD381

## 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-BM082316.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         | 2.710       | 18            | 21          | 29           | rVB2     | 90533          | 164610        | 2.69%           | 0.321%        |
| 2         | 6.957       | 734           | 743         | 752          | rBV      | 326044         | 605427        | 9.89%           | 1.182%        |
| 3         | 7.128       | 765           | 772         | 778          | rBV      | 241560         | 375300        | 6.13%           | 0.732%        |
| 4         | 7.328       | 799           | 806         | 815          | rBV      | 323674         | 535931        | 8.76%           | 1.046%        |
| 5         | 7.792       | 877           | 885         | 894          | rBV      | 677992         | 1097195       | 17.93%          | 2.141%        |
| 6         | 8.492       | 995           | 1004        | 1018         | rVB      | 401327         | 666398        | 10.89%          | 1.301%        |
| 7         | 8.945       | 1074          | 1081        | 1089         | rBV      | 329442         | 563433        | 9.21%           | 1.100%        |
| 8         | 9.663       | 1196          | 1203        | 1213         | rBV      | 280976         | 488705        | 7.99%           | 0.954%        |
| 9         | 9.828       | 1222          | 1231        | 1241         | rBV2     | 104555         | 235999        | 3.86%           | 0.461%        |
| 10        | 10.198      | 1287          | 1294        | 1303         | rBV      | 434086         | 753713        | 12.32%          | 1.471%        |
| 11        | 10.575      | 1347          | 1358        | 1365         | rBV      | 1007543        | 1784336       | 29.15%          | 3.483%        |
| 12        | 10.716      | 1376          | 1382        | 1392         | rBV      | 108865         | 211063        | 3.45%           | 0.412%        |
| 13        | 12.280      | 1643          | 1648        | 1656         | rVB2     | 86640          | 156766        | 2.56%           | 0.306%        |
| 14        | 13.833      | 1901          | 1912        | 1916         | rBV      | 970477         | 1388473       | 22.69%          | 2.710%        |
| 15        | 13.880      | 1916          | 1920        | 1928         | rVB      | 485411         | 689950        | 11.27%          | 1.347%        |
| 16        | 14.116      | 1953          | 1960        | 1971         | rVB      | 1047193        | 1539733       | 25.16%          | 3.005%        |
| 17        | 14.427      | 2005          | 2013        | 2023         | rBV2     | 1788331        | 2831548       | 46.27%          | 5.526%        |
| 18        | 14.627      | 2040          | 2047        | 2067         | rBV      | 392465         | 764420        | 12.49%          | 1.492%        |
| 19        | 15.415      | 2174          | 2181        | 2188         | rBV      | 1458561        | 2100251       | 34.32%          | 4.099%        |
| 20        | 15.539      | 2194          | 2202        | 2211         | rBV      | 443413         | 652825        | 10.67%          | 1.274%        |
| 21        | 16.133      | 2297          | 2303        | 2311         | rBV4     | 64172          | 144542        | 2.36%           | 0.282%        |
| 22        | 16.927      | 2428          | 2438        | 2456         | rBV4     | 114424         | 348643        | 5.70%           | 0.680%        |
| 23        | 17.168      | 2472          | 2479        | 2484         | rBV      | 2766823        | 3974162       | 64.94%          | 7.756%        |
| 24        | 17.209      | 2484          | 2486        | 2490         | rVV      | 107233         | 124819        | 2.04%           | 0.244%        |
| 25        | 17.268      | 2490          | 2496        | 2505         | rVB2     | 1641633        | 2527263       | 41.29%          | 4.933%        |
| 26        | 18.056      | 2624          | 2630        | 2634         | rBV      | 280886         | 432452        | 7.07%           | 0.844%        |
| 27        | 18.133      | 2639          | 2643        | 2647         | rVB      | 46125          | 65789         | 1.07%           | 0.128%        |
| 28        | 18.586      | 2716          | 2720        | 2728         | rVB3     | 33835          | 64359         | 1.05%           | 0.126%        |
| 29        | 18.962      | 2779          | 2784        | 2787         | rBV2     | 41905          | 85745         | 1.40%           | 0.167%        |
| 30        | 19.103      | 2804          | 2808        | 2815         | rBV3     | 37030          | 61480         | 1.00%           | 0.120%        |
| 31        | 19.221      | 2824          | 2828        | 2835         | rVB      | 251680         | 362839        | 5.93%           | 0.708%        |
| 32        | 19.339      | 2844          | 2848        | 2852         | rBV4     | 75934          | 100974        | 1.65%           | 0.197%        |
| 33        | 19.556      | 2879          | 2885        | 2898         | rBV      | 2576921        | 3867840       | 63.20%          | 7.549%        |
| 34        | 19.662      | 2900          | 2903        | 2906         | rBV3     | 38596          | 63132         | 1.03%           | 0.123%        |

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ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :  
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## Integration Parameters: LSCINT.P

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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-BM082316.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 20.592 | 3058 | 3061 | 3065 | rBV4 | 58678   | 75663   | 1.24%   | 0.148%  |
| 36 | 20.827 | 3098 | 3101 | 3106 | rVB  | 62800   | 83486   | 1.36%   | 0.163%  |
| 37 | 21.056 | 3136 | 3140 | 3149 | rVV2 | 297901  | 439002  | 7.17%   | 0.857%  |
| 38 | 21.121 | 3149 | 3151 | 3163 | rVB  | 56389   | 104500  | 1.71%   | 0.204%  |
| 39 | 21.256 | 3171 | 3174 | 3179 | rVB  | 238769  | 280760  | 4.59%   | 0.548%  |
| 40 | 21.350 | 3183 | 3190 | 3194 | rBV  | 4444591 | 6120206 | 100.00% | 11.945% |
| 41 | 21.492 | 3212 | 3214 | 3217 | rBV  | 78786   | 71354   | 1.17%   | 0.139%  |
| 42 | 21.933 | 3286 | 3289 | 3291 | rBV  | 114081  | 143046  | 2.34%   | 0.279%  |
| 43 | 22.397 | 3365 | 3368 | 3374 | rVB  | 151983  | 189732  | 3.10%   | 0.370%  |
| 44 | 22.627 | 3405 | 3407 | 3413 | rVB3 | 98509   | 128436  | 2.10%   | 0.251%  |
| 45 | 22.915 | 3451 | 3456 | 3460 | rBV2 | 420440  | 792757  | 12.95%  | 1.547%  |
| 46 | 23.474 | 3544 | 3551 | 3563 | rVB2 | 1980894 | 4092200 | 66.86%  | 7.987%  |
| 47 | 23.621 | 3568 | 3576 | 3587 | rVB  | 2945326 | 5815335 | 95.02%  | 11.350% |
| 48 | 24.133 | 3657 | 3663 | 3672 | rVB  | 661767  | 1310133 | 21.41%  | 2.557%  |
| 49 | 24.891 | 3787 | 3792 | 3800 | rVB  | 226139  | 487899  | 7.97%   | 0.952%  |
| 50 | 25.768 | 3937 | 3941 | 3950 | rVB2 | 180762  | 404144  | 6.60%   | 0.789%  |
| 51 | 26.697 | 4092 | 4099 | 4110 | rBV7 | 283017  | 868177  | 14.19%  | 1.694%  |

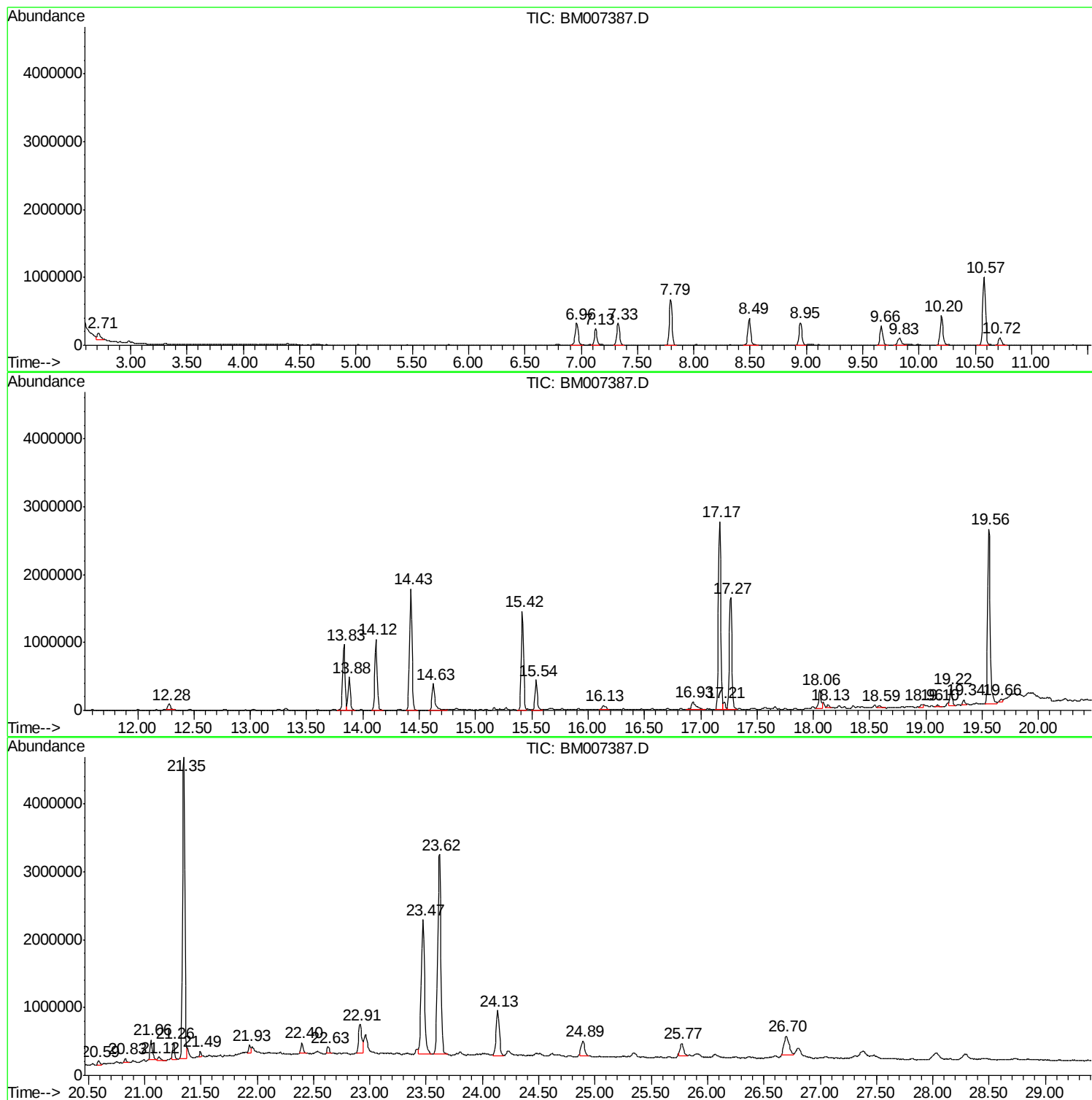
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
Quant Title : SVOA CALIBRATION

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



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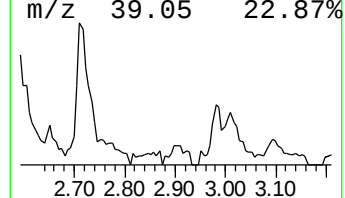
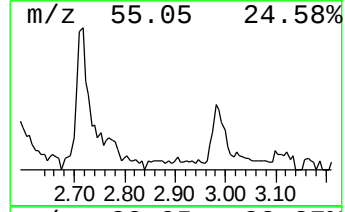
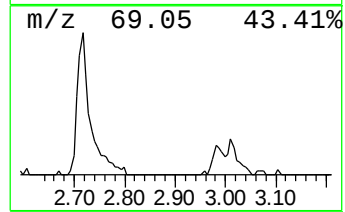
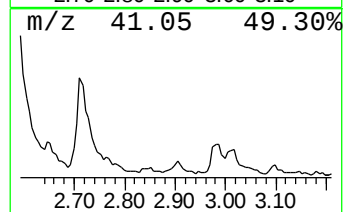
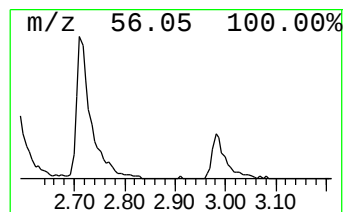
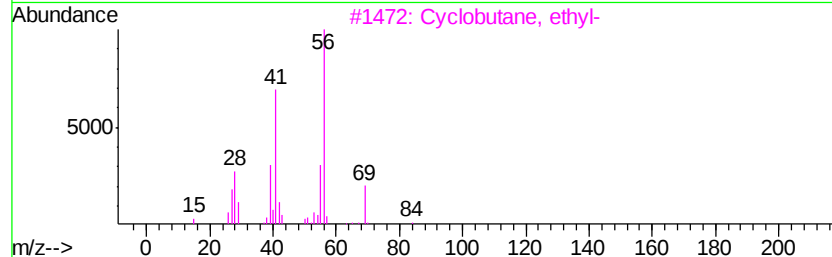
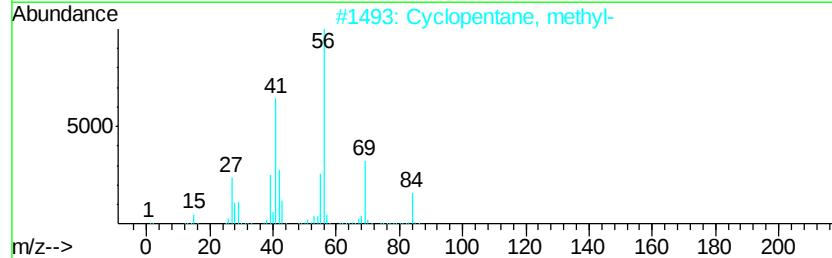
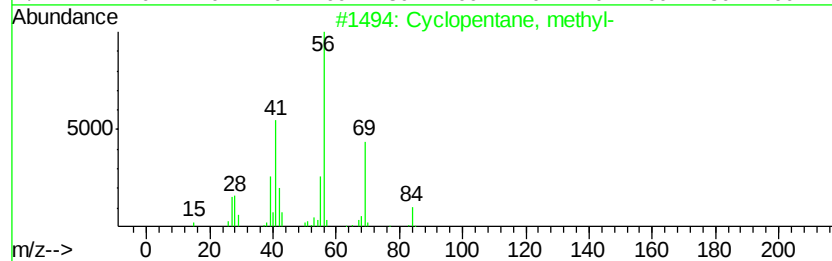
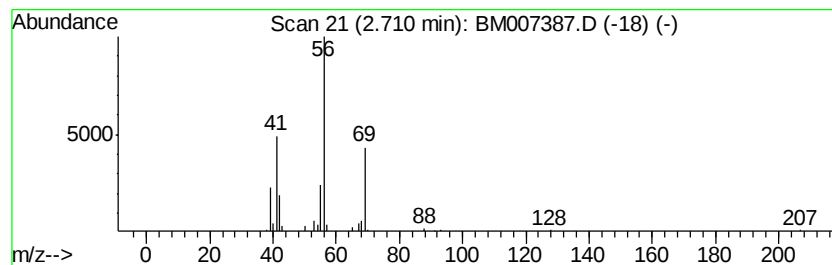
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 (DEL) Alkane: Cyclic2.71 Concentration Rank 2

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 2.71 | 3.00 ng/ul | 164610 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopentane, methyl-               | 84  | C6H12   | 000096-37-7 | 83   |
| 2    |    |   | Cyclopentane, methyl-               | 84  | C6H12   | 000096-37-7 | 72   |
| 3    |    |   | Cyclobutane, ethyl-                 | 84  | C6H12   | 004806-61-5 | 50   |
| 4    |    |   | 2H-Pyran-2,6(3H)-dione, dihydro-... | 142 | C7H10O3 | 004160-82-1 | 45   |
| 5    |    |   | Cyclopentane, 1,1-dimethyl-         | 98  | C7H14   | 001638-26-2 | 40   |



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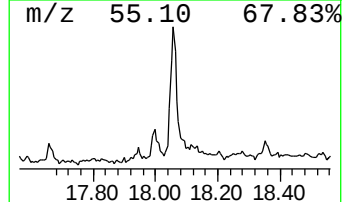
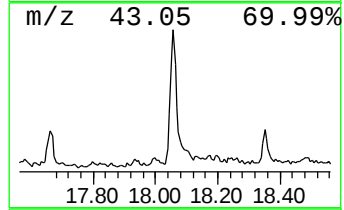
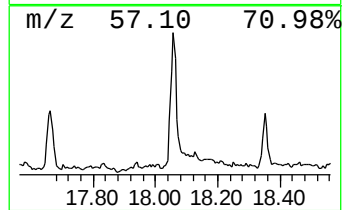
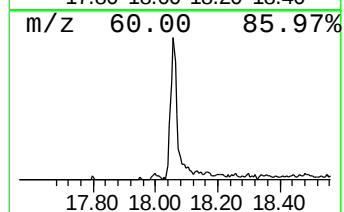
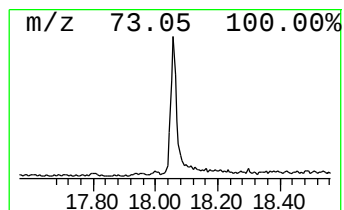
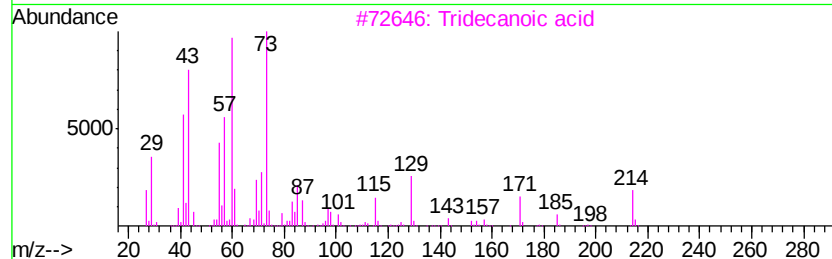
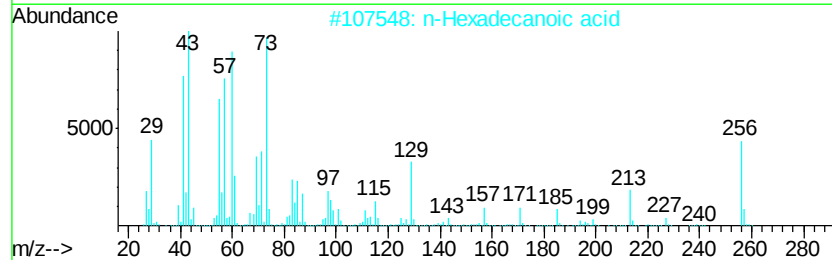
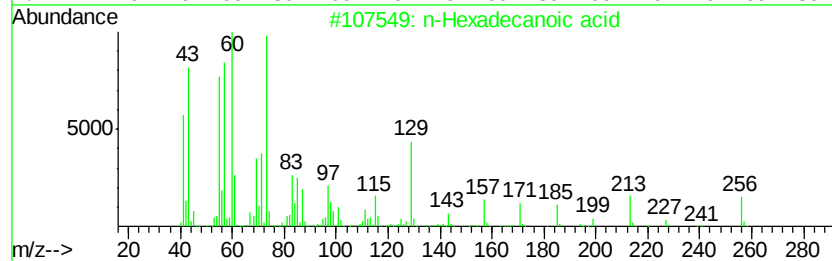
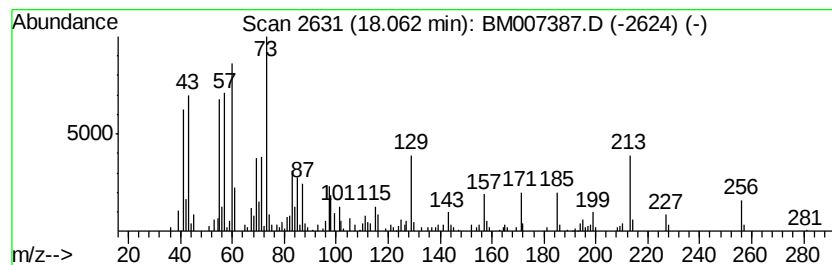
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.06 | 2.18 ng/ul | 432452 | Phenanthrene-d10 | 17.17 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 89   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 89   |
| 5    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 74   |



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Quant Title : SVOA CALIBRATION

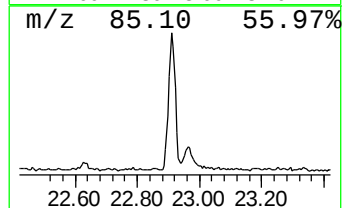
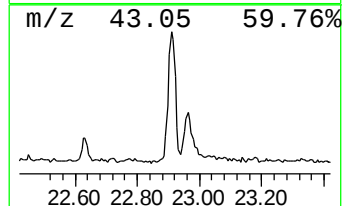
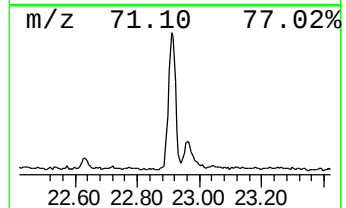
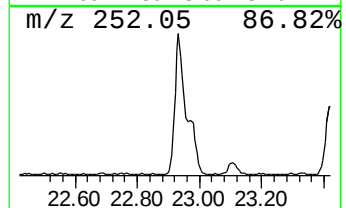
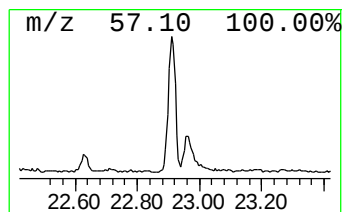
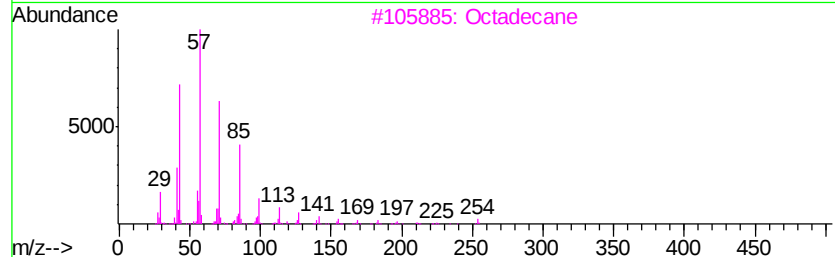
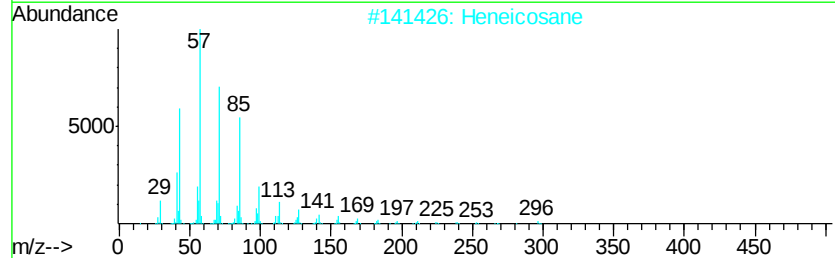
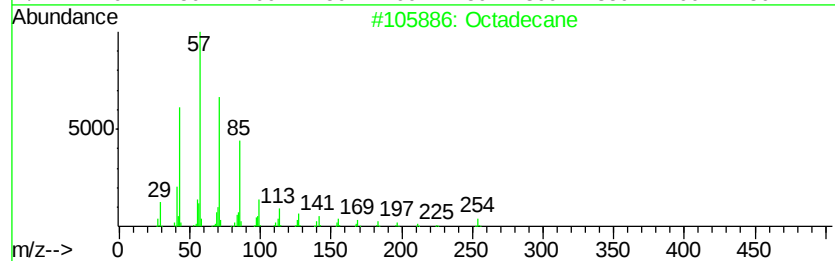
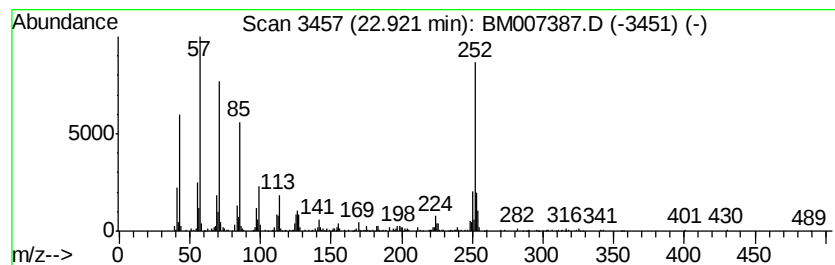
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.92 | 2.73 ng/ul | 792757 | Perylene-d12     | 23.62 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane   | 254 | C18H38  | 000593-45-3 | 98   |
| 2    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 97   |
| 3    |    | Octadecane   | 254 | C18H38  | 000593-45-3 | 96   |
| 4    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 95   |
| 5    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 92   |



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Quant Title : SVOA CALIBRATION

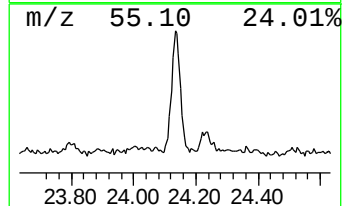
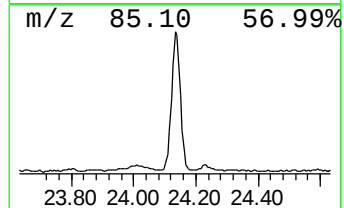
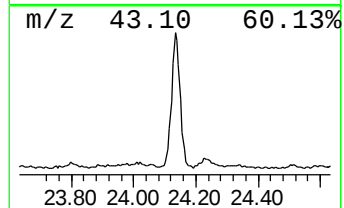
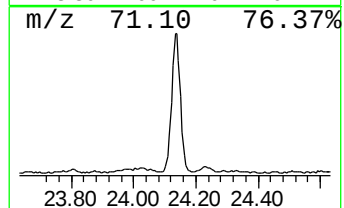
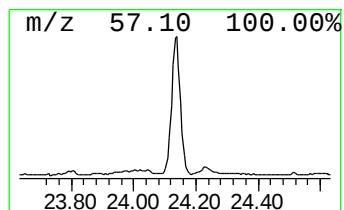
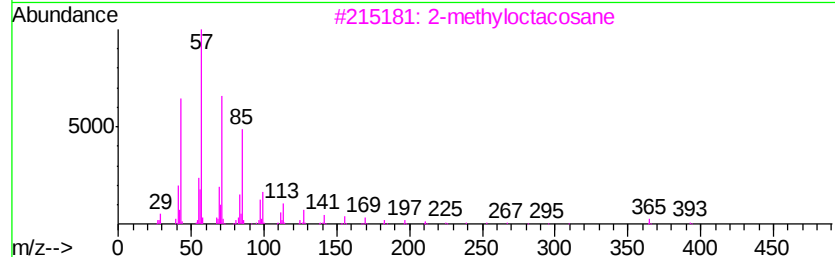
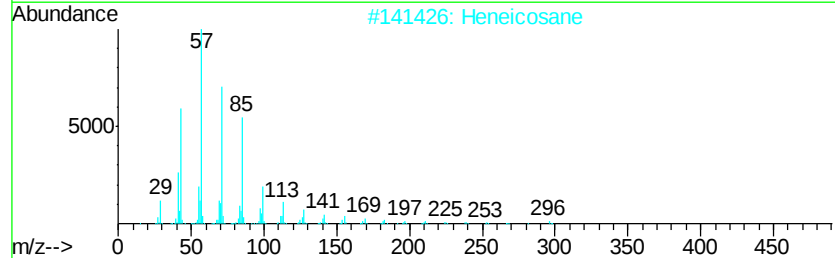
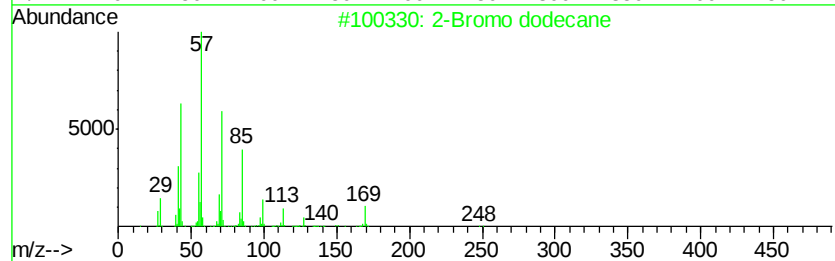
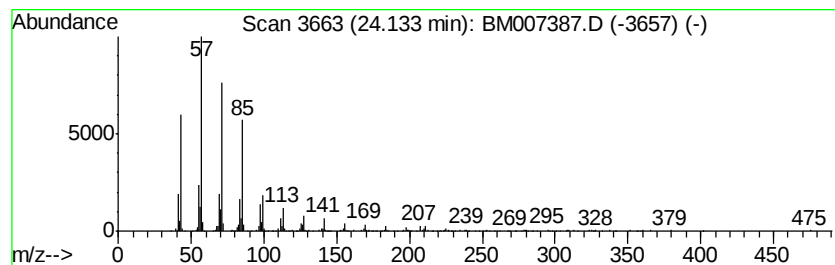
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 2-Bromo dodecane Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 24.13 | 4.51 ng/ul | 1310130 | Perylene-d12     | 23.62 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm  | CAS#         | Qual |
|---------|-----------------------|--------------|-----|----------|--------------|------|
| 1       | 2-Bromo dodecane      |              | 248 | C12H25Br | 013187-99-0  | 94   |
| 2       | Heneicosane           |              | 296 | C21H44   | 000629-94-7  | 91   |
| 3       | 2-methyloctacosane    |              | 408 | C29H60   | 1000376-72-8 | 91   |
| 4       | Octacosane            |              | 394 | C28H58   | 000630-02-4  | 91   |
| 5       | Heptadecane, 9-octyl- |              | 352 | C25H52   | 007225-64-1  | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090316\  
Data File : BM007387.D  
Acq On : 03 Sep 2016 02:58  
Operator : UM/SJ  
Sample : H4639-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

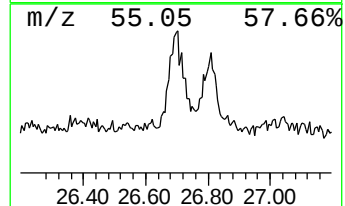
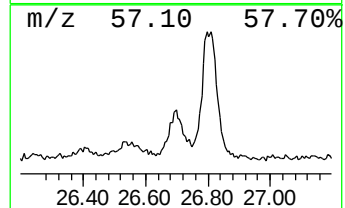
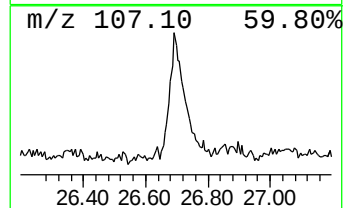
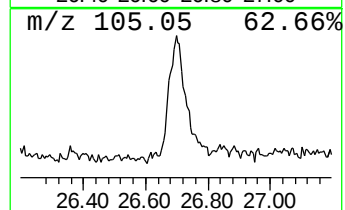
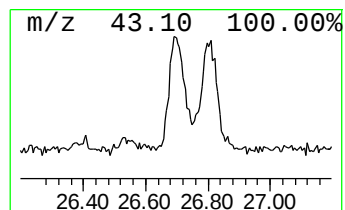
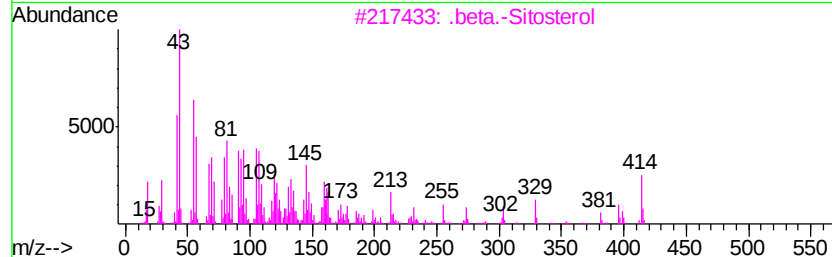
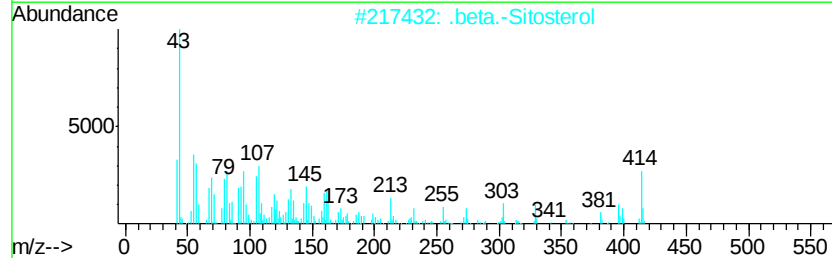
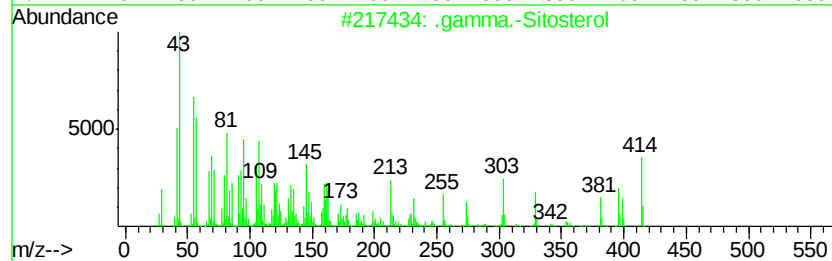
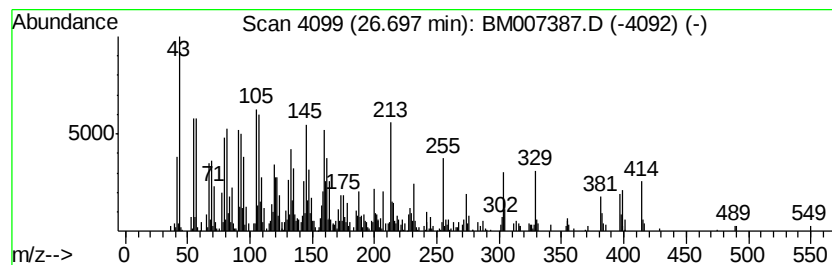
Instrument :  
BNA\_M  
ClientSampleId :  
BD381

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 6 .gamma.-Sitosterol Concentration Rank 3

| R.T.    | EstConc    | Area                         | Relative to ISTD | R.T.           |
|---------|------------|------------------------------|------------------|----------------|
| 26.70   | 2.99 ng/ul | 868177                       | Perylene-d12     | 23.62          |
| Hit# of | 5          | Tentative ID                 | MW MolForm       | CAS# Qual      |
| 1       |            | .gamma.-Sitosterol           | 414 C29H50O      | 000083-47-6 55 |
| 2       |            | .beta.-Sitosterol            | 414 C29H50O      | 000083-46-5 46 |
| 3       |            | .beta.-Sitosterol            | 414 C29H50O      | 000083-46-5 42 |
| 4       |            | Ergost-5-en-3-ol, (3.beta.)- | 400 C28H48O      | 004651-51-8 38 |
| 5       |            | .gamma.-Sitosterol           | 414 C29H50O      | 000083-47-6 35 |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090316\  
Data File : BM007387.D  
Acq On : 03 Sep 2016 02:58  
Operator : UM/SJ  
Sample : H4639-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BD381

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.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 |
| (DEL) Alkane: Cyc... | 2.71  | 3.0     | ng/ul | 164610   | 1                     | 7.79  | 1097200 | 20.0 |
| n-Hexadecanoic acid  | 18.06 | 2.2     | ng/ul | 432452   | 4                     | 17.17 | 3974160 | 20.0 |
| (DEL) Alkane: Str... | 22.92 | 2.7     | ng/ul | 792757   | 6                     | 23.62 | 5815340 | 20.0 |
| 2-Bromo dodecane     | 24.13 | 4.5     | ng/ul | 1310130  | 6                     | 23.62 | 5815340 | 20.0 |
| .gamma.-Sitosterol   | 26.70 | 3.0     | ng/ul | 868177   | 6                     | 23.62 | 5815340 | 20.0 |