

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102616\  
 Data File : BG024518.D  
 Acq On : 26 Oct 2016 18:51  
 Operator : UM/SJ  
 Sample : H5409-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 14B(1-4)-COMP

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

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

Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG102516.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.336       | 421           | 425         | 430          | rBV4     | 26775          | 43317         | 1.52%           | 0.267%        |
| 2         | 5.800       | 498           | 504         | 510          | rBV2     | 38240          | 66534         | 2.34%           | 0.411%        |
| 3         | 7.399       | 771           | 776         | 779          | rBV3     | 50900          | 105030        | 3.69%           | 0.648%        |
| 4         | 7.792       | 838           | 843         | 852          | rVB2     | 61629          | 128678        | 4.52%           | 0.794%        |
| 5         | 8.268       | 916           | 924         | 935          | rBV      | 462735         | 826071        | 29.03%          | 5.098%        |
| 6         | 8.591       | 972           | 979         | 986          | rBV3     | 126183         | 243882        | 8.57%           | 1.505%        |
| 7         | 9.443       | 1116          | 1124        | 1131         | rBV      | 130435         | 232519        | 8.17%           | 1.435%        |
| 8         | 9.796       | 1179          | 1184        | 1191         | rBV5     | 30982          | 60306         | 2.12%           | 0.372%        |
| 9         | 11.100      | 1399          | 1406        | 1413         | rBV      | 574451         | 1058282       | 37.20%          | 6.531%        |
| 10        | 12.275      | 1601          | 1606        | 1611         | rBV6     | 18363          | 30796         | 1.08%           | 0.190%        |
| 11        | 13.509      | 1806          | 1816        | 1824         | rBV      | 270330         | 440975        | 15.50%          | 2.721%        |
| 12        | 14.320      | 1948          | 1954        | 1960         | rBV      | 225240         | 338239        | 11.89%          | 2.087%        |
| 13        | 14.737      | 2020          | 2025        | 2030         | rBV      | 44509          | 59345         | 2.09%           | 0.366%        |
| 14        | 14.884      | 2042          | 2050        | 2058         | rBV      | 958605         | 1504860       | 52.89%          | 9.287%        |
| 15        | 15.236      | 2106          | 2110        | 2116         | rBV7     | 20859          | 35422         | 1.25%           | 0.219%        |
| 16        | 15.683      | 2180          | 2186        | 2191         | rVB      | 132727         | 175199        | 6.16%           | 1.081%        |
| 17        | 16.071      | 2248          | 2252        | 2253         | rBV4     | 35480          | 42158         | 1.48%           | 0.260%        |
| 18        | 16.088      | 2253          | 2255        | 2260         | rVB3     | 45164          | 55161         | 1.94%           | 0.340%        |
| 19        | 16.182      | 2267          | 2271        | 2274         | rBV5     | 20745          | 28851         | 1.01%           | 0.178%        |
| 20        | 16.235      | 2276          | 2280        | 2283         | rBV4     | 27775          | 28534         | 1.00%           | 0.176%        |
| 21        | 16.365      | 2295          | 2302        | 2307         | rBV6     | 88034          | 122308        | 4.30%           | 0.755%        |
| 22        | 16.541      | 2329          | 2332        | 2340         | rBV      | 151478         | 258199        | 9.08%           | 1.593%        |
| 23        | 16.882      | 2386          | 2390        | 2394         | rBV4     | 28728          | 57964         | 2.04%           | 0.358%        |
| 24        | 17.334      | 2461          | 2467        | 2471         | rBV      | 98039          | 127268        | 4.47%           | 0.785%        |
| 25        | 17.387      | 2472          | 2476        | 2480         | rVB5     | 17835          | 28455         | 1.00%           | 0.176%        |
| 26        | 17.628      | 2510          | 2517        | 2528         | rBV      | 1219606        | 1917356       | 67.39%          | 11.833%       |
| 27        | 18.468      | 2655          | 2660        | 2667         | rBV2     | 331071         | 480030        | 16.87%          | 2.962%        |
| 28        | 19.590      | 2847          | 2851        | 2853         | rBV4     | 33049          | 49393         | 1.74%           | 0.305%        |
| 29        | 19.614      | 2853          | 2855        | 2861         | rVB7     | 30599          | 44865         | 1.58%           | 0.277%        |
| 30        | 19.725      | 2870          | 2874        | 2883         | rBV3     | 241182         | 349675        | 12.29%          | 2.158%        |
| 31        | 20.201      | 2950          | 2955        | 2961         | rBV      | 220009         | 310623        | 10.92%          | 1.917%        |
| 32        | 21.506      | 3173          | 3177        | 3187         | rBV2     | 218387         | 525191        | 18.46%          | 3.241%        |
| 33        | 21.923      | 3239          | 3248        | 3256         | rBV      | 1559091        | 2845125       | 100.00%         | 17.558%       |
| 34        | 22.875      | 3407          | 3410        | 3417         | rVB9     | 55122          | 87155         | 3.06%           | 0.538%        |

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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
14B(1-4)-COMP

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

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

Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG102516.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |       |        |         |        |         |
|----|--------|------|------|------|-------|--------|---------|--------|---------|
| 35 | 23.021 | 3430 | 3435 | 3445 | rVV10 | 93815  | 206742  | 7.27%  | 1.276%  |
| 36 | 23.121 | 3446 | 3452 | 3457 | rVB9  | 40970  | 97657   | 3.43%  | 0.603%  |
| 37 | 25.348 | 3820 | 3831 | 3845 | rBV3  | 875137 | 2793909 | 98.20% | 17.242% |
| 38 | 27.675 | 4220 | 4227 | 4238 | rBV3  | 112075 | 397621  | 13.98% | 2.454%  |

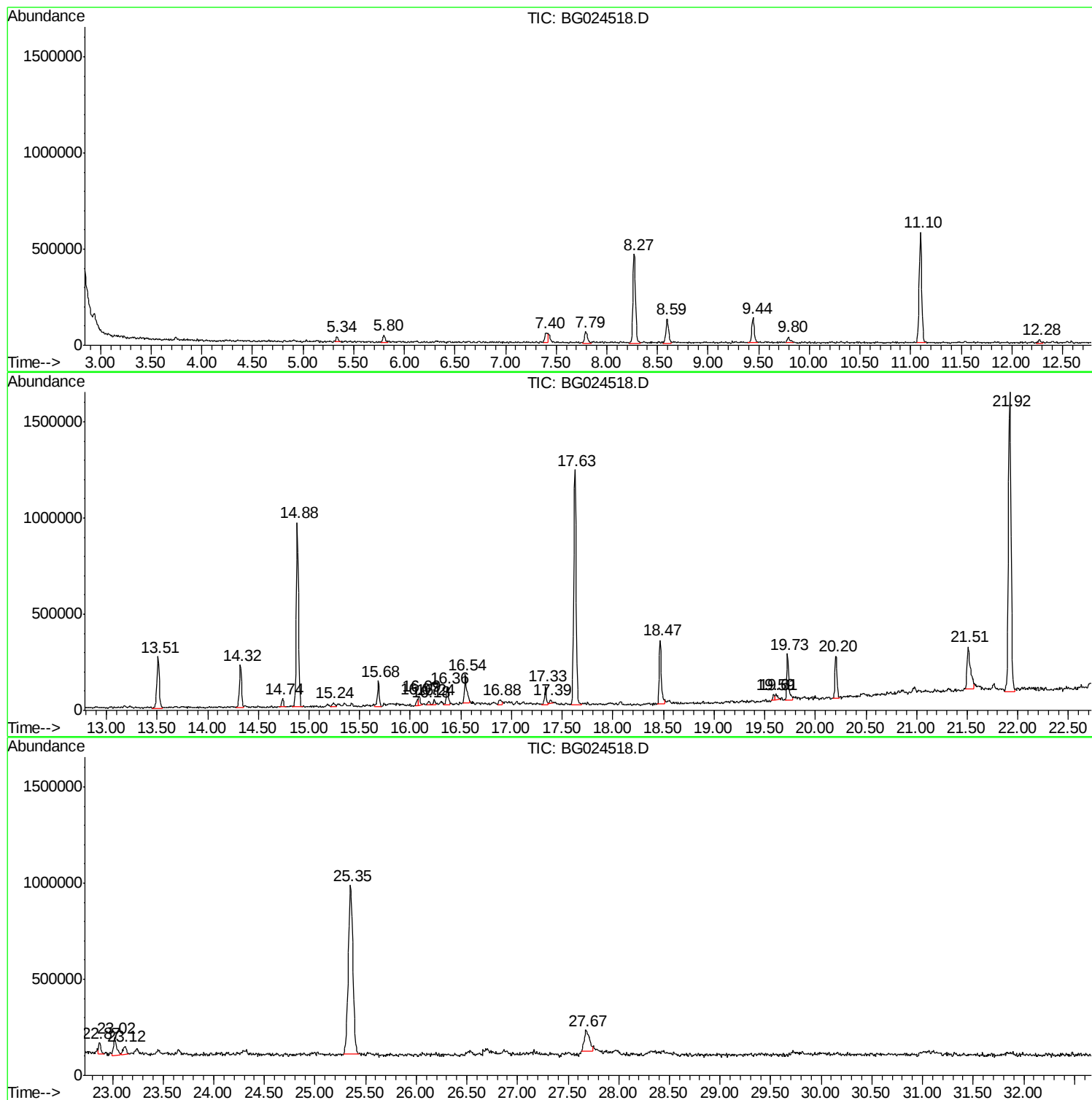
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
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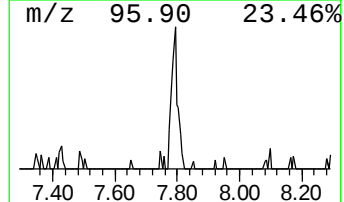
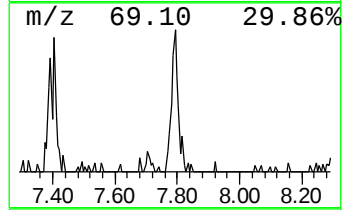
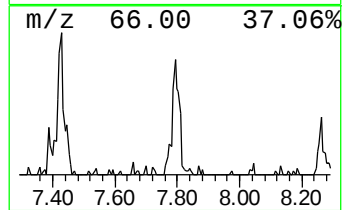
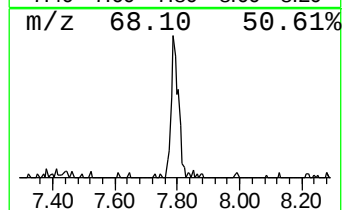
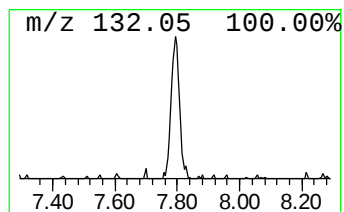
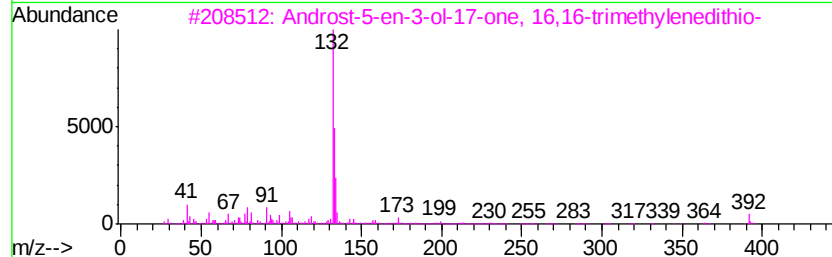
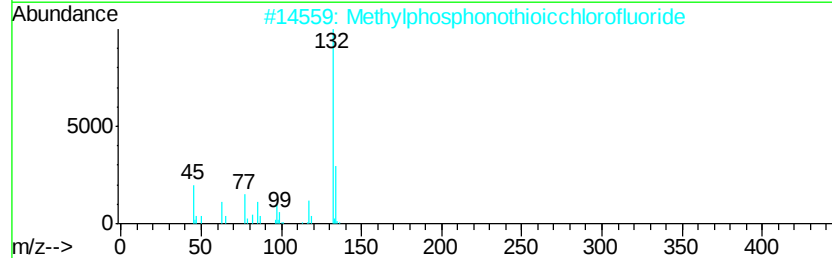
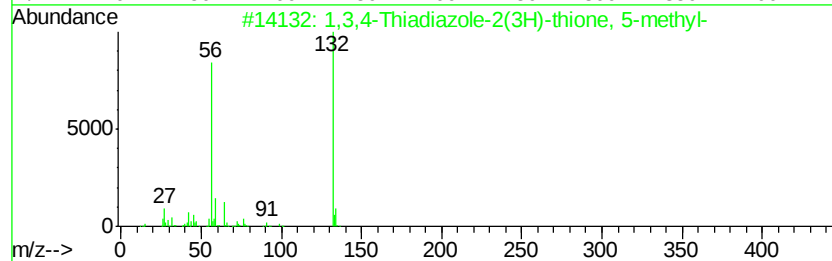
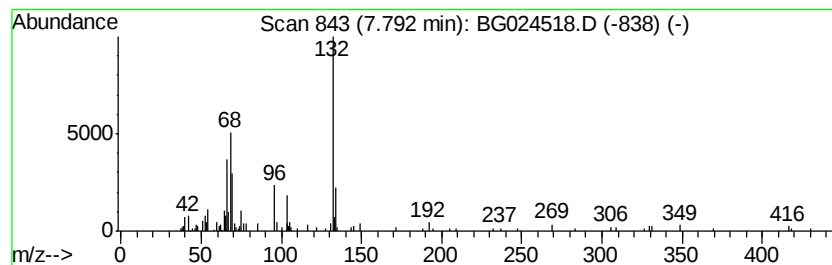
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.79 Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 7.79 | 3.12 ng | 128678 | 1,4-Dichlorobenzene-d4 | 8.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2   | 029490-19-5  | 25   |
| 2    |    | Methylphosphonothioicchlorofluoride | 132 | CH3ClFPS   | 027127-27-1  | 16   |
| 3    |    | Androst-5-en-3-ol-17-one, 16,16-... | 392 | C22H32O2S2 | 1000194-62-7 | 16   |
| 4    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2  | 062802-42-0  | 16   |
| 5    |    | 1H-Benzimidazole, 2-methyl-         | 132 | C8H8N2     | 000615-15-6  | 14   |



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

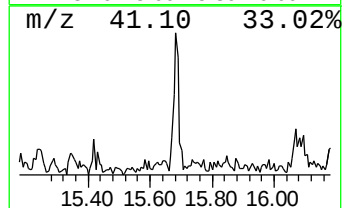
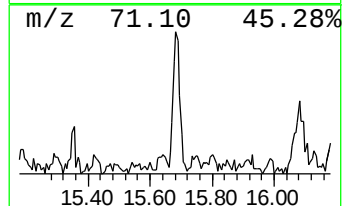
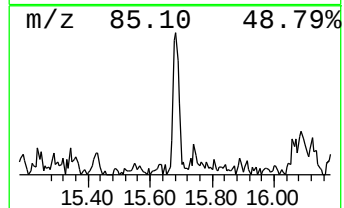
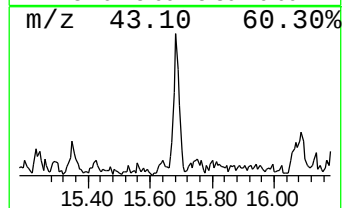
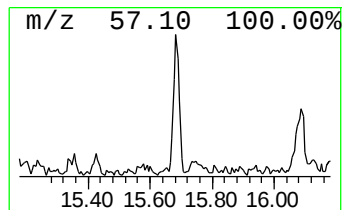
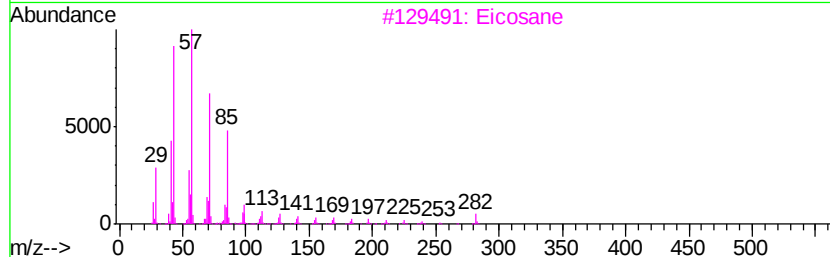
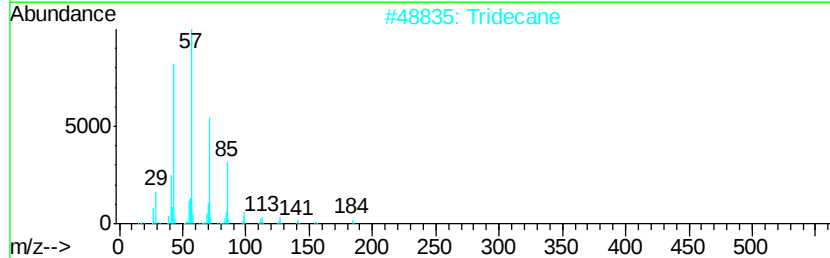
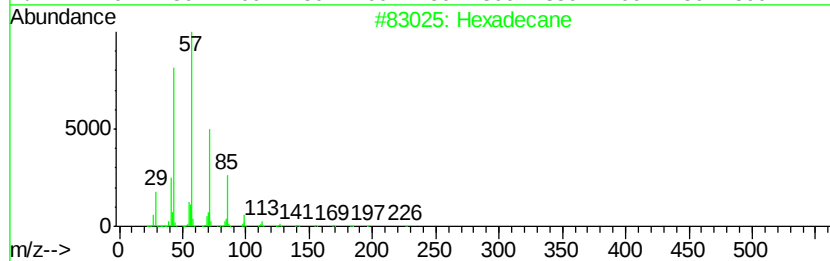
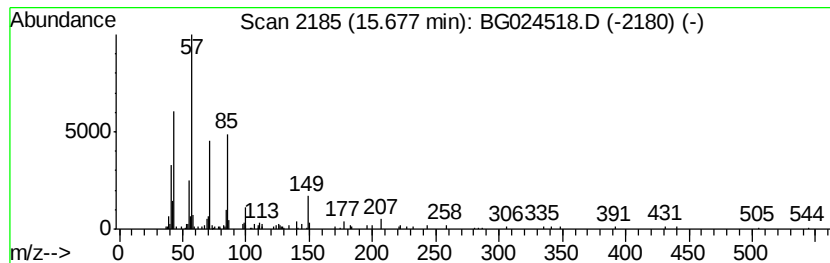
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Hexadecane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.68 | 2.33 ng | 175199 | Acenaphthene-d10 | 14.88 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane            | 226 | C16H34  | 000544-76-3 | 93   |
| 2    |    | Tridecane             | 184 | C13H28  | 000629-50-5 | 59   |
| 3    |    | Eicosane              | 282 | C20H42  | 000112-95-8 | 58   |
| 4    |    | Decane, 3,6-dimethyl- | 170 | C12H26  | 017312-53-7 | 58   |
| 5    |    | Pentadecane           | 212 | C15H32  | 000629-62-9 | 53   |



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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

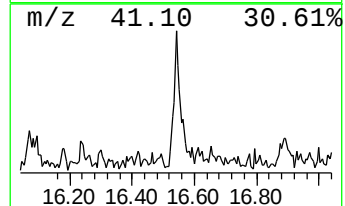
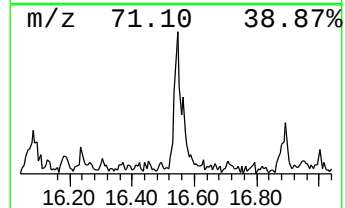
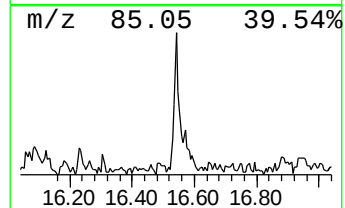
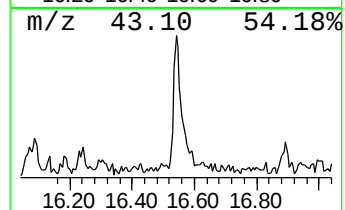
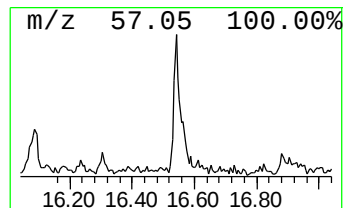
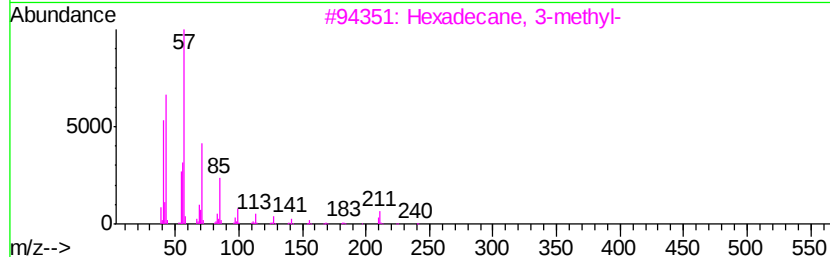
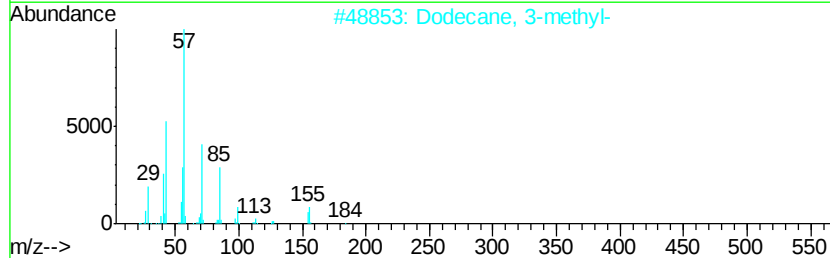
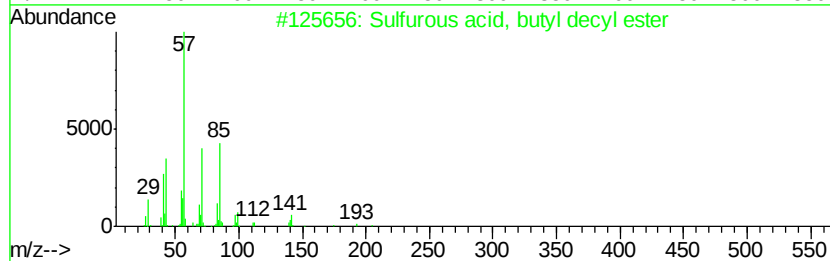
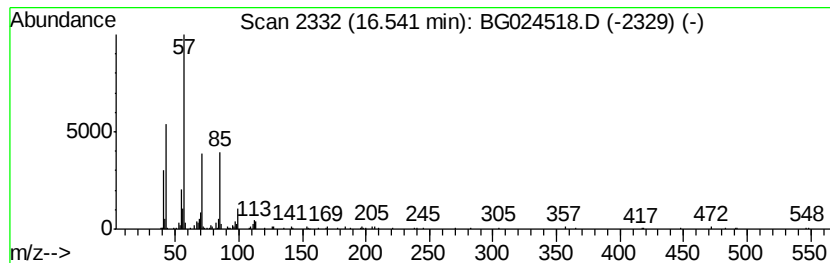
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Sulfurous acid, butyl decyl... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.54 | 2.69 ng | 258199 | Phenanthrene-d10 | 17.63 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, butyl decyl ester   | 278 | C14H30O3S | 1000309-17-7 | 72   |
| 2    |    | Dodecane, 3-methyl-                 | 184 | C13H28    | 017312-57-1  | 53   |
| 3    |    | Hexadecane, 3-methyl-               | 240 | C17H36    | 006418-43-5  | 53   |
| 4    |    | Sulfurous acid, decyl 2-propyl e... | 264 | C13H28O3S | 1000309-12-1 | 53   |
| 5    |    | Sulfurous acid, hexyl pentyl ester  | 236 | C11H24O3S | 1000309-14-1 | 50   |



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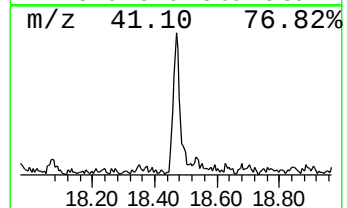
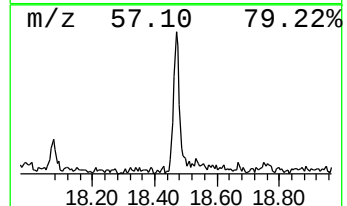
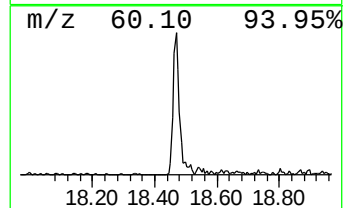
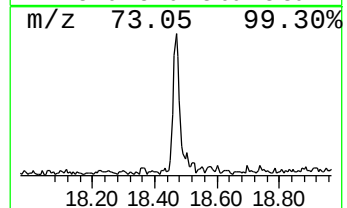
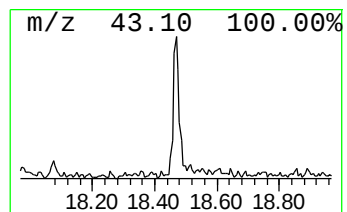
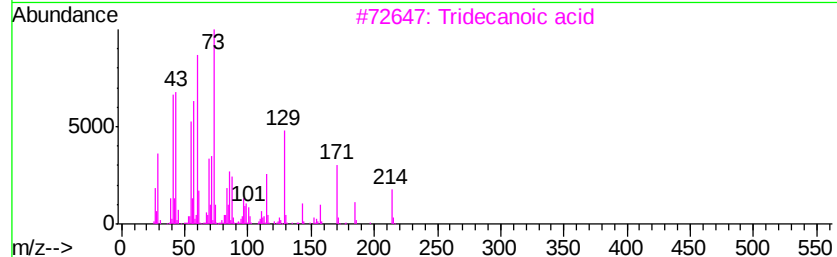
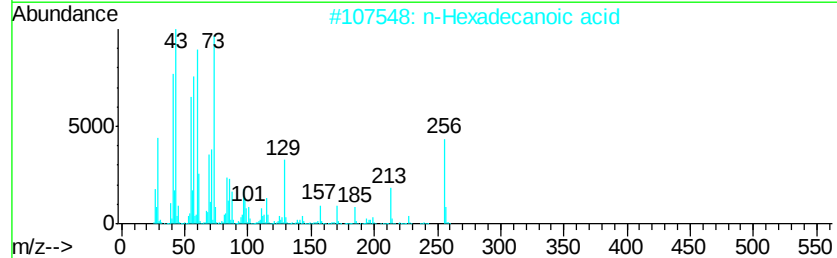
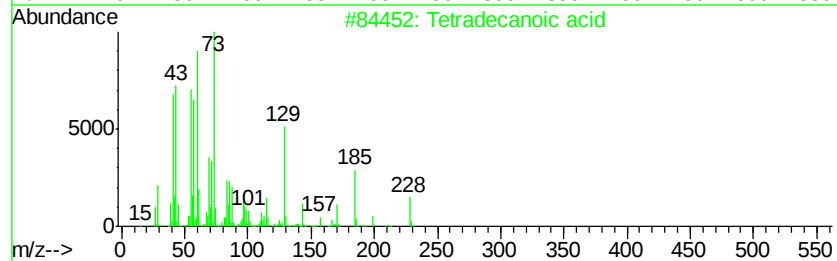
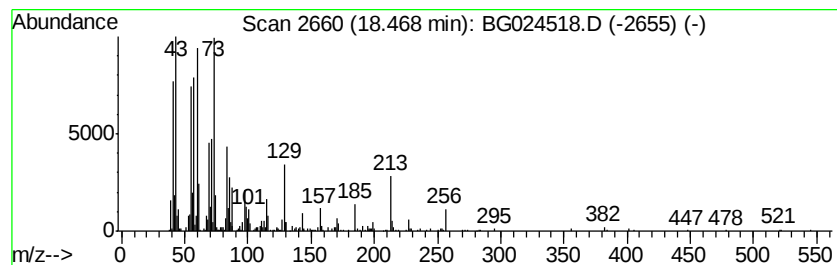
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Tetradecanoic acid Concentration Rank 2

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.47 | 5.01 ng | 480030 | Phenanthrene-d10 | 17.63 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 90   |
| 2       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90   |
| 3       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 89   |
| 4       |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 87   |
| 5       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 72   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

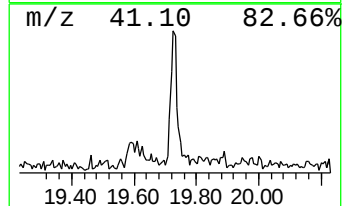
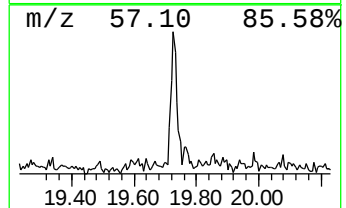
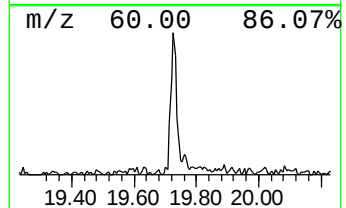
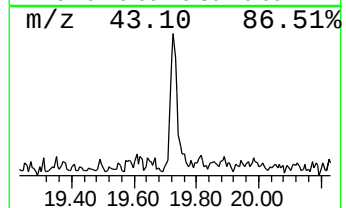
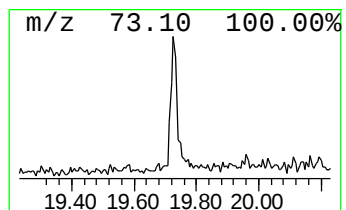
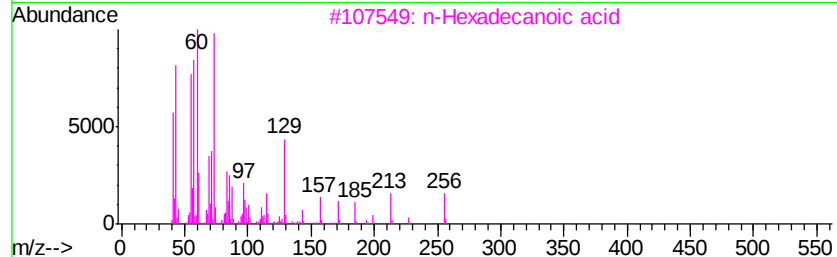
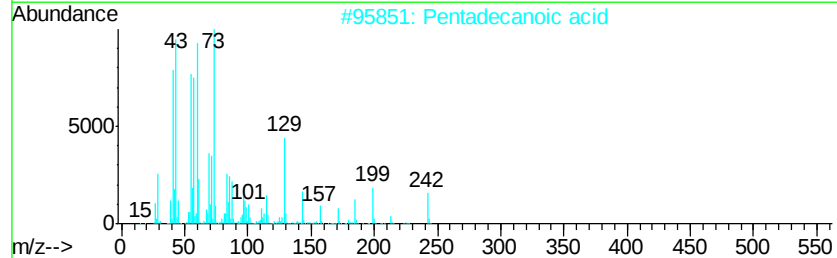
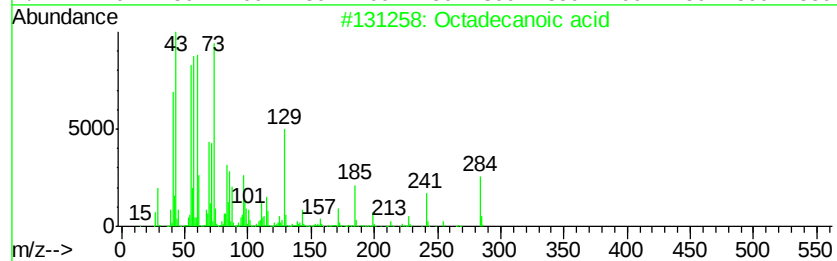
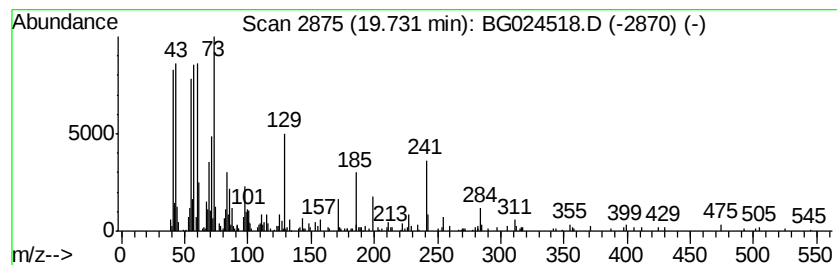
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.73 | 3.65 ng | 349675 | Phenanthrene-d10 | 17.63 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 89   |
| 3       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 58   |
| 4       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 53   |
| 5       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102616\  
Data File : BG024518.D  
Acq On : 26 Oct 2016 18:51  
Operator : UM/SJ  
Sample : H5409-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
14B(1-4)-COMP

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

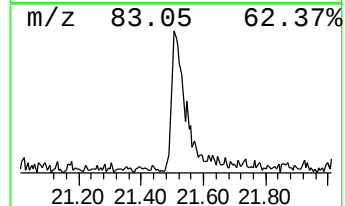
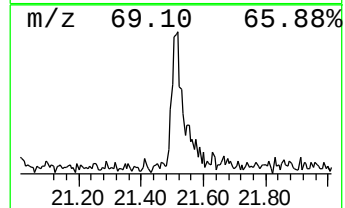
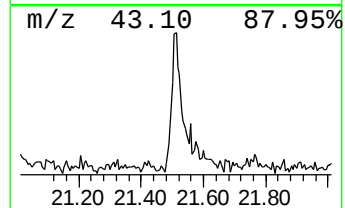
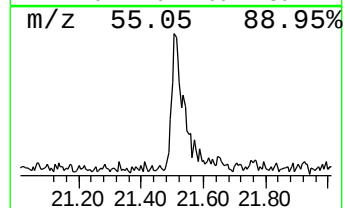
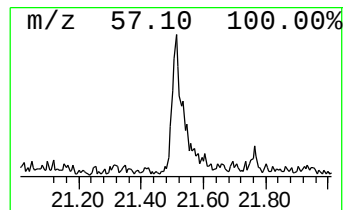
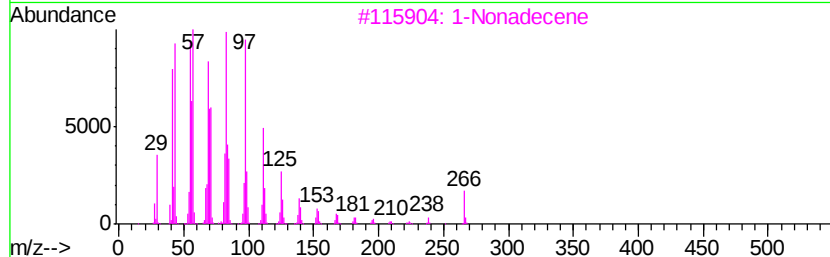
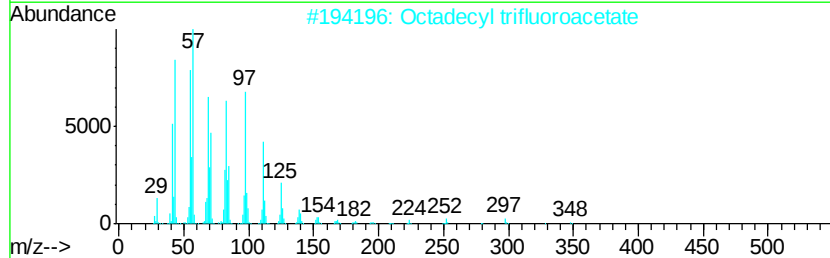
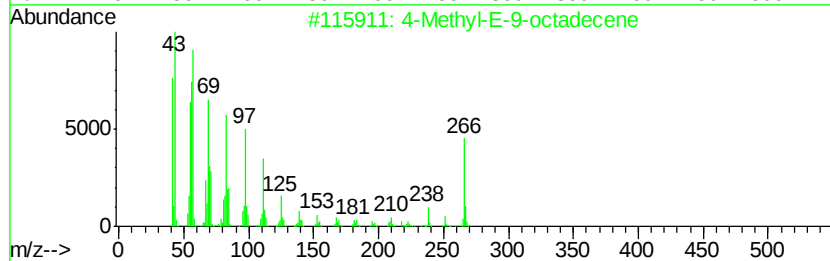
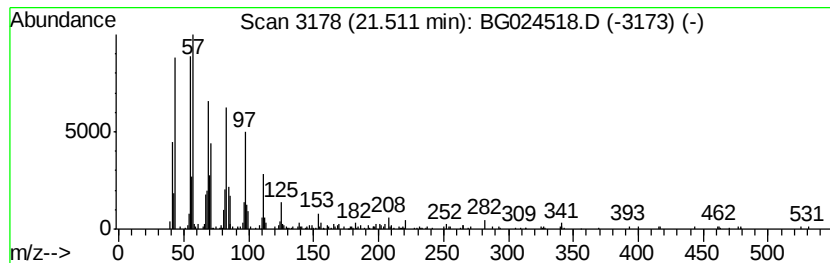
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 4-Methyl-E-9-octadecene Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.51 | 3.69 ng | 525191 | Chrysene-d12     | 21.92 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | 4-Methyl-E-9-octadecene             | 266 | C19H38     | 1000130-87-1 | 90   |
| 2       |   | Octadecyl trifluoroacetate          | 366 | C20H37F3O2 | 079392-43-1  | 83   |
| 3       |   | 1-Nonadecene                        | 266 | C19H38     | 018435-45-5  | 83   |
| 4       |   | 17-Pentatriacontene                 | 491 | C35H70     | 006971-40-0  | 68   |
| 5       |   | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 959261-25-7  | 68   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG102616\  
Data File : BG024518.D  
Acq On : 26 Oct 2016 18:51  
Operator : UM/SJ  
Sample : H5409-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
14B(1-4)-COMP

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

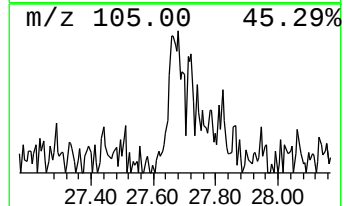
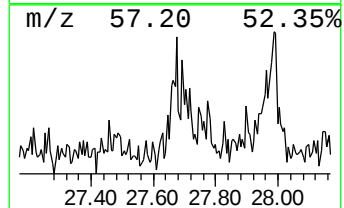
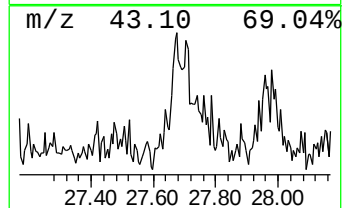
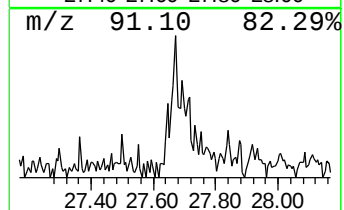
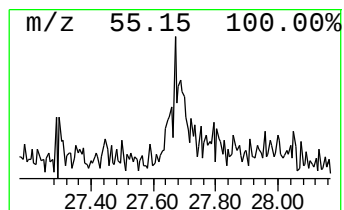
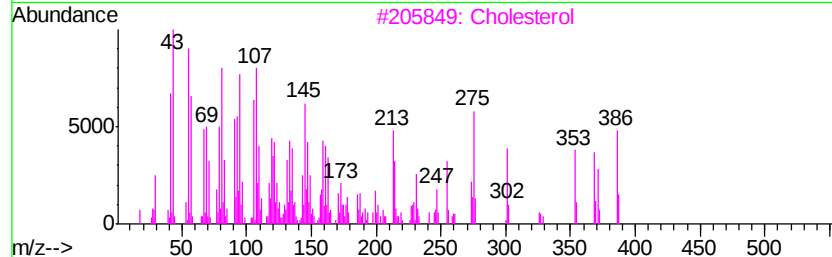
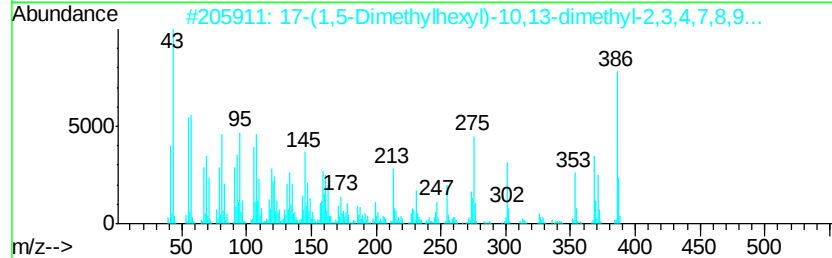
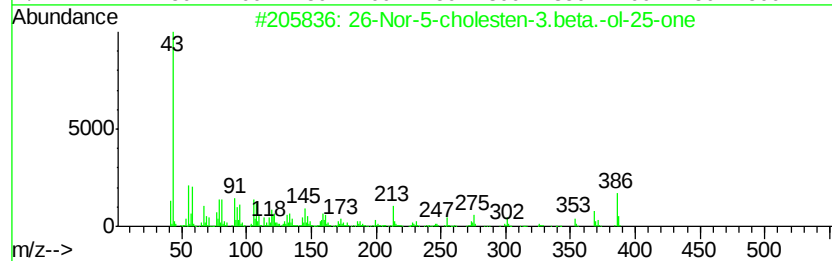
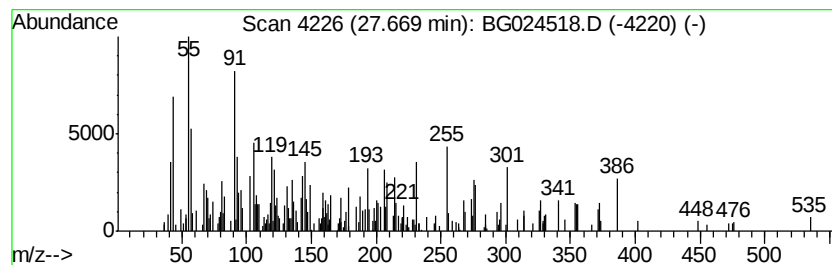
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown27.67 Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 27.67 | 2.85 ng | 397621 | Perylene-d12     | 25.35 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 26-Nor-5-cholesten-3.beta.-ol-25... | 386 | C26H42O2  | 007494-34-0  | 38   |
| 2    |    | 17-(1,5-Dimethylhexyl)-10,13-dim... | 386 | C27H46O   | 1000210-38-4 | 30   |
| 3    |    | Cholesterol                         | 386 | C27H46O   | 000057-88-5  | 30   |
| 4    |    | Perhydro-htx, 1-acetyl-, acetate... | 309 | C18H31NO3 | 082260-20-6  | 25   |
| 5    |    | Propionic acid, 3-(4-ethoxypheny... | 327 | C19H21NO4 | 1000310-87-3 | 15   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG102616\  
Data File : BG024518.D  
Acq On : 26 Oct 2016 18:51  
Operator : UM/SJ  
Sample : H5409-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
14B(1-4)-COMP

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG102516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| unknown7.79          | 7.79  | 3.1     | ng    | 128678   | 1                     | 8.27  | 826071  | 20.0 |
| Hexadecane           | 15.68 | 2.3     | ng    | 175199   | 3                     | 14.88 | 1504860 | 20.0 |
| Sulfurous acid, b... | 16.54 | 2.7     | ng    | 258199   | 4                     | 17.63 | 1917360 | 20.0 |
| Tetradecanoic acid   | 18.47 | 5.0     | ng    | 480030   | 4                     | 17.63 | 1917360 | 20.0 |
| Octadecanoic acid    | 19.73 | 3.6     | ng    | 349675   | 4                     | 17.63 | 1917360 | 20.0 |
| 4-Methyl-E-9-octa... | 21.51 | 3.7     | ng    | 525191   | 5                     | 21.92 | 2845130 | 20.0 |
| unknown27.67         | 27.67 | 2.9     | ng    | 397621   | 6                     | 25.35 | 2793910 | 20.0 |