

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101716\  
 Data File : BG024411.D  
 Acq On : 18 Oct 2016 9:07  
 Operator : UM/SJ  
 Sample : H5223-06  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BDNJ9

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.1  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.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         | 3.639       | 134           | 136         | 143          | rVB4     | 21962          | 32360         | 0.64%           | 0.053%        |
| 2         | 3.809       | 163           | 165         | 171          | rBV5     | 8642           | 14523         | 0.29%           | 0.024%        |
| 3         | 4.338       | 252           | 255         | 260          | rVB7     | 11197          | 15998         | 0.32%           | 0.026%        |
| 4         | 4.408       | 263           | 267         | 273          | rVB7     | 12008          | 20247         | 0.40%           | 0.033%        |
| 5         | 4.573       | 294           | 295         | 303          | rVB7     | 13618          | 27963         | 0.55%           | 0.046%        |
| 6         | 4.632       | 303           | 305         | 310          | rBV6     | 12197          | 18853         | 0.37%           | 0.031%        |
| 7         | 4.896       | 342           | 350         | 351          | rVB7     | 8812           | 18069         | 0.36%           | 0.030%        |
| 8         | 4.931       | 351           | 356         | 359          | rBV6     | 15671          | 18578         | 0.37%           | 0.030%        |
| 9         | 5.190       | 397           | 400         | 404          | rVB4     | 11515          | 15528         | 0.31%           | 0.025%        |
| 10        | 5.219       | 404           | 405         | 410          | rBV5     | 10181          | 15872         | 0.31%           | 0.026%        |
| 11        | 5.349       | 422           | 427         | 435          | rVB      | 39172          | 64894         | 1.28%           | 0.106%        |
| 12        | 5.431       | 437           | 441         | 444          | rVB4     | 12372          | 18526         | 0.37%           | 0.030%        |
| 13        | 5.631       | 473           | 475         | 482          | rBV7     | 8304           | 20683         | 0.41%           | 0.034%        |
| 14        | 5.742       | 487           | 494         | 496          | rBV5     | 7609           | 15725         | 0.31%           | 0.026%        |
| 15        | 6.224       | 571           | 576         | 579          | rBV7     | 12707          | 19752         | 0.39%           | 0.032%        |
| 16        | 6.330       | 588           | 594         | 602          | rVB10    | 9351           | 27752         | 0.55%           | 0.045%        |
| 17        | 7.099       | 722           | 725         | 729          | rBV6     | 10142          | 13955         | 0.28%           | 0.023%        |
| 18        | 7.193       | 734           | 741         | 742          | rBV5     | 10947          | 15156         | 0.30%           | 0.025%        |
| 19        | 7.411       | 770           | 778         | 792          | rVB      | 570845         | 1104867       | 21.81%          | 1.811%        |
| 20        | 7.599       | 800           | 810         | 820          | rBV      | 402476         | 719245        | 14.20%          | 1.179%        |
| 21        | 7.805       | 837           | 845         | 860          | rVB      | 575277         | 1035004       | 20.43%          | 1.697%        |
| 22        | 7.928       | 860           | 866         | 869          | rBV5     | 9789           | 18469         | 0.36%           | 0.030%        |
| 23        | 8.139       | 898           | 902         | 905          | rBV5     | 9642           | 18053         | 0.36%           | 0.030%        |
| 24        | 8.280       | 917           | 926         | 938          | rBV      | 764474         | 1380193       | 27.24%          | 2.262%        |
| 25        | 8.797       | 1011          | 1014        | 1017         | rBV5     | 12734          | 16719         | 0.33%           | 0.027%        |
| 26        | 8.968       | 1035          | 1043        | 1053         | rVV      | 711752         | 1266777       | 25.01%          | 2.076%        |
| 27        | 9.456       | 1117          | 1126        | 1133         | rBV      | 612199         | 1101165       | 21.74%          | 1.805%        |
| 28        | 9.514       | 1133          | 1136        | 1141         | rVB4     | 43807          | 65447         | 1.29%           | 0.107%        |
| 29        | 9.691       | 1162          | 1166        | 1169         | rVB5     | 11732          | 19777         | 0.39%           | 0.032%        |
| 30        | 9.714       | 1169          | 1170        | 1175         | rBV4     | 11535          | 15398         | 0.30%           | 0.025%        |
| 31        | 9.808       | 1180          | 1186        | 1192         | rVV7     | 19549          | 43359         | 0.86%           | 0.071%        |
| 32        | 10.184      | 1241          | 1250        | 1258         | rBV2     | 507125         | 996634        | 19.67%          | 1.634%        |
| 33        | 10.713      | 1333          | 1340        | 1352         | rBV      | 757483         | 1382198       | 27.28%          | 2.266%        |
| 34        | 11.112      | 1398          | 1408        | 1420         | rVB      | 1185234        | 2186048       | 43.15%          | 3.583%        |

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 Peak separation: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 11.236 | 1420 | 1429 | 1441 | rBV2  | 541189  | 1025217 | 20.24% | 1.681% |
| 36 | 11.530 | 1475 | 1479 | 1483 | rBV6  | 12045   | 18925   | 0.37%  | 0.031% |
| 37 | 11.841 | 1528 | 1532 | 1538 | rVB8  | 9261    | 19995   | 0.39%  | 0.033% |
| 38 | 12.293 | 1604 | 1609 | 1611 | rBV4  | 11336   | 16481   | 0.33%  | 0.027% |
| 39 | 12.511 | 1638 | 1646 | 1648 | rVB7  | 8563    | 16394   | 0.32%  | 0.027% |
| 40 | 12.552 | 1648 | 1653 | 1656 | rBV4  | 11614   | 16594   | 0.33%  | 0.027% |
| 41 | 12.681 | 1665 | 1675 | 1682 | rVB9  | 18237   | 37353   | 0.74%  | 0.061% |
| 42 | 13.163 | 1750 | 1757 | 1758 | rBV7  | 8199    | 16651   | 0.33%  | 0.027% |
| 43 | 13.639 | 1831 | 1838 | 1839 | rVB5  | 11614   | 19219   | 0.38%  | 0.032% |
| 44 | 13.692 | 1840 | 1847 | 1850 | rVV6  | 11422   | 21388   | 0.42%  | 0.035% |
| 45 | 13.756 | 1850 | 1858 | 1868 | rVB4  | 50885   | 101577  | 2.01%  | 0.167% |
| 46 | 14.291 | 1936 | 1949 | 1953 | rVV   | 1497530 | 2335887 | 46.11% | 3.829% |
| 47 | 14.338 | 1953 | 1957 | 1964 | rVV   | 927839  | 1383557 | 27.31% | 2.268% |
| 48 | 14.461 | 1973 | 1978 | 1981 | rBV6  | 9273    | 16033   | 0.32%  | 0.026% |
| 49 | 14.597 | 1992 | 2001 | 2012 | rVB   | 1668027 | 2594557 | 51.22% | 4.253% |
| 50 | 14.749 | 2019 | 2027 | 2035 | rVB4  | 34238   | 67682   | 1.34%  | 0.111% |
| 51 | 14.896 | 2043 | 2052 | 2061 | rBV   | 2139273 | 3432992 | 67.77% | 5.627% |
| 52 | 14.996 | 2065 | 2069 | 2071 | rBV4  | 11789   | 16252   | 0.32%  | 0.027% |
| 53 | 15.061 | 2071 | 2080 | 2091 | rVV   | 775444  | 1282703 | 25.32% | 2.103% |
| 54 | 15.184 | 2100 | 2101 | 2107 | rVB6  | 11211   | 19487   | 0.38%  | 0.032% |
| 55 | 15.255 | 2107 | 2113 | 2118 | rBV9  | 17446   | 36888   | 0.73%  | 0.060% |
| 56 | 15.366 | 2129 | 2132 | 2135 | rBV5  | 14892   | 20043   | 0.40%  | 0.033% |
| 57 | 15.425 | 2140 | 2142 | 2146 | rVB4  | 13257   | 18929   | 0.37%  | 0.031% |
| 58 | 15.654 | 2177 | 2181 | 2184 | rBV4  | 22961   | 27195   | 0.54%  | 0.045% |
| 59 | 15.695 | 2184 | 2188 | 2194 | rVB   | 92741   | 102939  | 2.03%  | 0.169% |
| 60 | 15.801 | 2201 | 2206 | 2212 | rVB5  | 52040   | 69062   | 1.36%  | 0.113% |
| 61 | 15.883 | 2213 | 2220 | 2230 | rVB   | 2261833 | 3483544 | 68.76% | 5.710% |
| 62 | 15.983 | 2230 | 2237 | 2246 | rBV   | 759537  | 1181307 | 23.32% | 1.936% |
| 63 | 16.107 | 2252 | 2258 | 2267 | rVB   | 32759   | 103556  | 2.04%  | 0.170% |
| 64 | 16.201 | 2271 | 2274 | 2278 | rVB6  | 16325   | 26421   | 0.52%  | 0.043% |
| 65 | 16.248 | 2278 | 2282 | 2285 | rBV4  | 22873   | 30839   | 0.61%  | 0.051% |
| 66 | 16.318 | 2291 | 2294 | 2296 | rBV3  | 16905   | 17546   | 0.35%  | 0.029% |
| 67 | 16.383 | 2302 | 2305 | 2309 | rBV4  | 9823    | 14292   | 0.28%  | 0.023% |
| 68 | 16.512 | 2322 | 2327 | 2329 | rBV5  | 11635   | 20653   | 0.41%  | 0.034% |
| 69 | 16.553 | 2329 | 2334 | 2345 | rVV4  | 93757   | 187477  | 3.70%  | 0.307% |
| 70 | 16.735 | 2361 | 2365 | 2375 | rBV10 | 11218   | 33905   | 0.67%  | 0.056% |
| 71 | 16.823 | 2376 | 2380 | 2385 | rVB8  | 22062   | 35843   | 0.71%  | 0.059% |

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Misc :  
ALS Vial : 36 Sample Multiplier: 1

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ClientSampleId :  
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Sampling : 1  
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Stop Thrs : 0  
Filtering: 5  
Min Area: 0.1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.M  
Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 16.988 | 2406 | 2408 | 2411 | rBV4 | 14901   | 16374   | 0.32%   | 0.027% |
| 73  | 17.047 | 2414 | 2418 | 2425 | rVB4 | 54550   | 75242   | 1.49%   | 0.123% |
| 74  | 17.135 | 2430 | 2433 | 2436 | rBV5 | 12214   | 16797   | 0.33%   | 0.028% |
| 75  | 17.358 | 2463 | 2471 | 2492 | rBV  | 1152309 | 1782904 | 35.19%  | 2.922% |
| 76  | 17.640 | 2511 | 2519 | 2528 | rBV2 | 2658018 | 4225152 | 83.40%  | 6.926% |
| 77  | 17.734 | 2529 | 2535 | 2545 | rVB2 | 2303228 | 3764578 | 74.31%  | 6.171% |
| 78  | 17.881 | 2556 | 2560 | 2565 | rBV7 | 15634   | 31546   | 0.62%   | 0.052% |
| 79  | 17.975 | 2570 | 2576 | 2589 | rBV2 | 236626  | 431013  | 8.51%   | 0.707% |
| 80  | 18.087 | 2591 | 2595 | 2597 | rBV2 | 40653   | 48602   | 0.96%   | 0.080% |
| 81  | 18.116 | 2597 | 2600 | 2605 | rVB4 | 52626   | 69070   | 1.36%   | 0.113% |
| 82  | 18.357 | 2638 | 2641 | 2645 | rBV6 | 13382   | 17034   | 0.34%   | 0.028% |
| 83  | 18.480 | 2656 | 2662 | 2673 | rBV  | 488985  | 736826  | 14.54%  | 1.208% |
| 84  | 18.768 | 2708 | 2711 | 2716 | rVB6 | 26649   | 27855   | 0.55%   | 0.046% |
| 85  | 18.845 | 2721 | 2724 | 2726 | rVB4 | 12981   | 14850   | 0.29%   | 0.024% |
| 86  | 18.997 | 2747 | 2750 | 2752 | rBV4 | 14252   | 15878   | 0.31%   | 0.026% |
| 87  | 19.044 | 2754 | 2758 | 2762 | rBV6 | 42572   | 61672   | 1.22%   | 0.101% |
| 88  | 19.332 | 2803 | 2807 | 2812 | rBV7 | 26568   | 42173   | 0.83%   | 0.069% |
| 89  | 19.638 | 2851 | 2859 | 2865 | rBV5 | 50902   | 104868  | 2.07%   | 0.172% |
| 90  | 19.738 | 2872 | 2876 | 2884 | rBV2 | 226534  | 346834  | 6.85%   | 0.569% |
| 91  | 19.832 | 2889 | 2892 | 2896 | rVB3 | 57358   | 68708   | 1.36%   | 0.113% |
| 92  | 19.896 | 2899 | 2903 | 2908 | rVB5 | 36884   | 65415   | 1.29%   | 0.107% |
| 93  | 20.008 | 2915 | 2922 | 2931 | rVB  | 2899434 | 4435784 | 87.56%  | 7.271% |
| 94  | 20.519 | 3005 | 3009 | 3016 | rBV8 | 48365   | 61159   | 1.21%   | 0.100% |
| 95  | 21.165 | 3116 | 3119 | 3125 | rVB6 | 49532   | 72705   | 1.44%   | 0.119% |
| 96  | 21.518 | 3174 | 3179 | 3187 | rBV3 | 312061  | 564743  | 11.15%  | 0.926% |
| 97  | 21.935 | 3242 | 3250 | 3261 | rBV  | 2955141 | 5065977 | 100.00% | 8.304% |
| 98  | 25.137 | 3783 | 3795 | 3807 | rBV2 | 1422290 | 4150402 | 81.93%  | 6.803% |
| 99  | 25.378 | 3824 | 3836 | 3851 | rVB2 | 1586594 | 5001491 | 98.73%  | 8.198% |
| 100 | 26.553 | 4033 | 4036 | 4038 | rBV4 | 44896   | 57807   | 1.14%   | 0.095% |

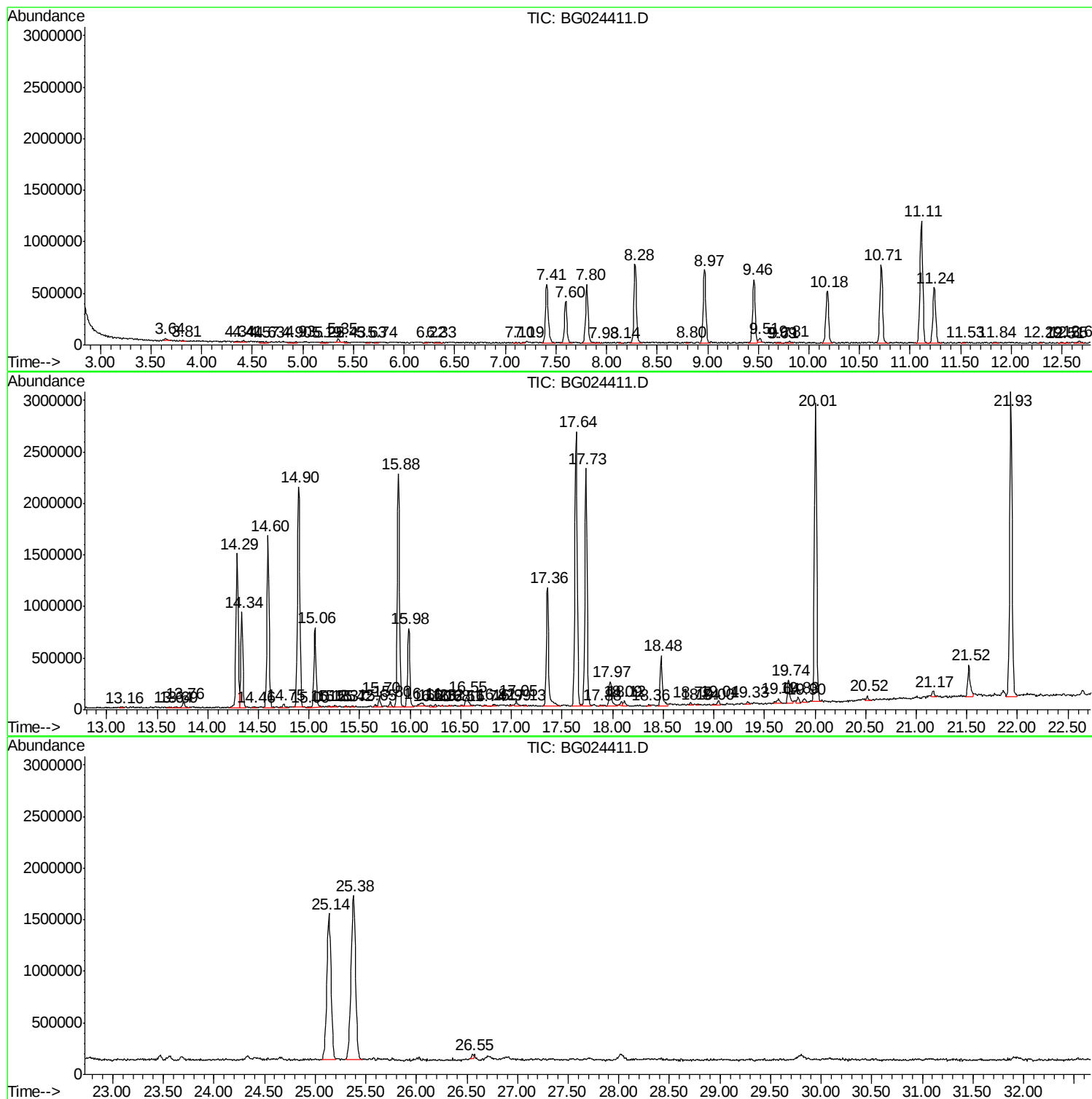
Sum of corrected areas: 61006629

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

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



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Quant Title : SVOA CALIBRATION

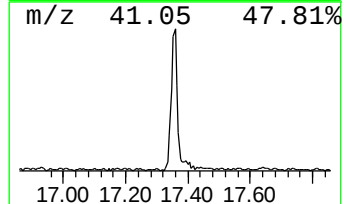
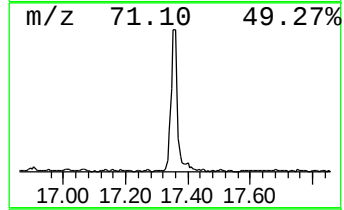
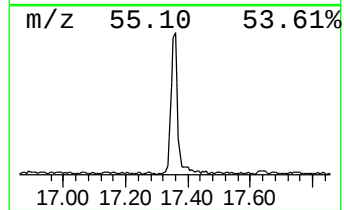
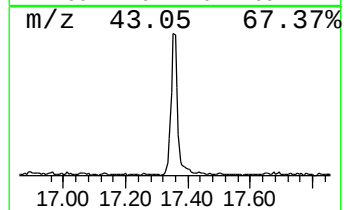
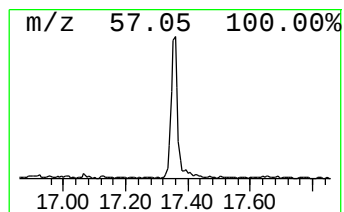
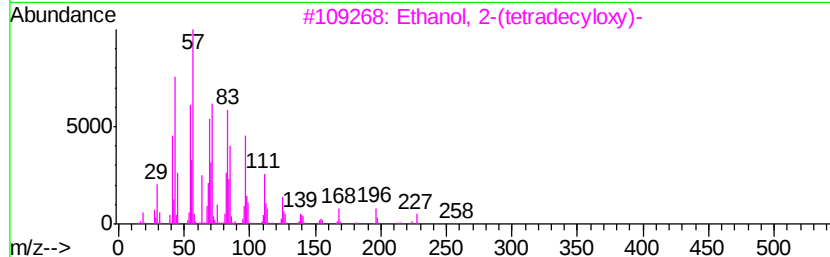
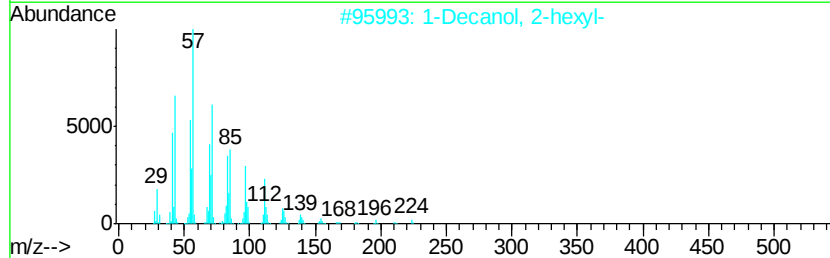
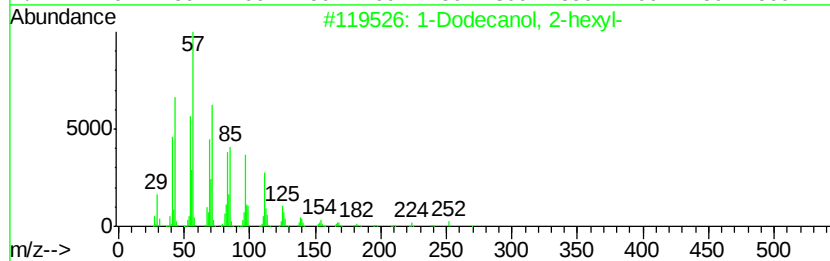
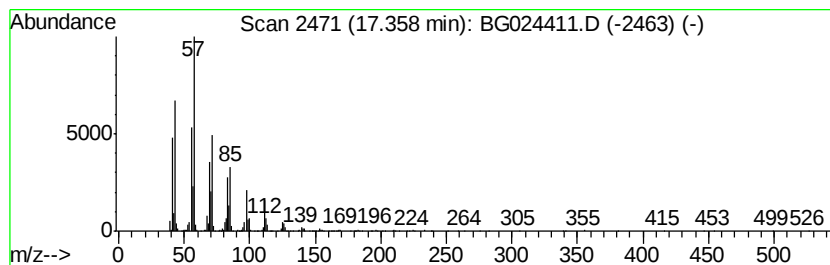
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 1-Dodecanol, 2-hexyl- Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 17.36 | 8.44 ng/ul | 1782900 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID                | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------------|-----|----------|-------------|------|
| 1    | 5  | 1-Dodecanol, 2-hexyl-       | 270 | C18H38O  | 110225-00-8 | 91   |
| 2    |    | 1-Decanol, 2-hexyl-         | 242 | C16H34O  | 002425-77-6 | 91   |
| 3    |    | Ethanol, 2-(tetradecyloxy)- | 258 | C16H34O2 | 002136-70-1 | 90   |
| 4    |    | 1-Dodecanol, 2-octyl-       | 298 | C20H42O  | 005333-42-6 | 90   |
| 5    |    | 7-Hexadecene, (Z)-          | 224 | C16H32   | 035507-09-6 | 78   |



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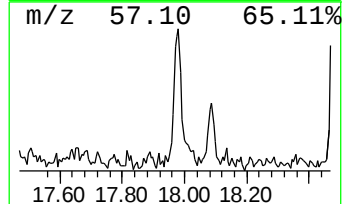
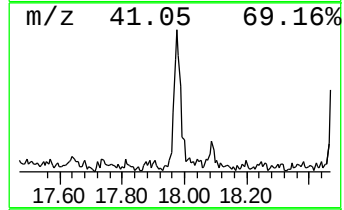
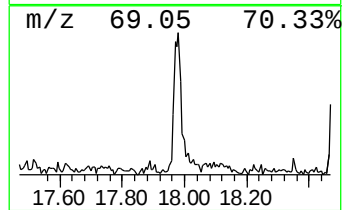
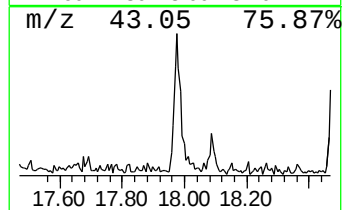
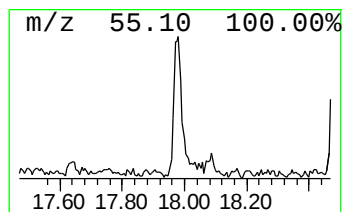
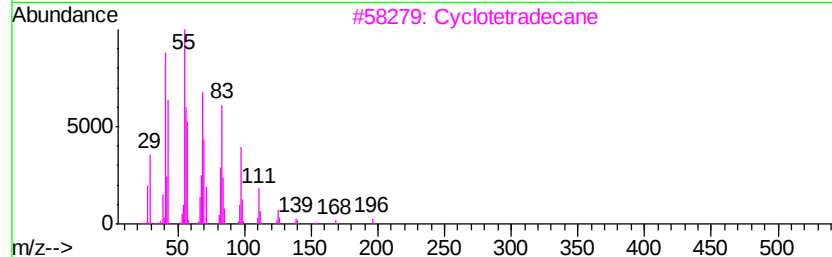
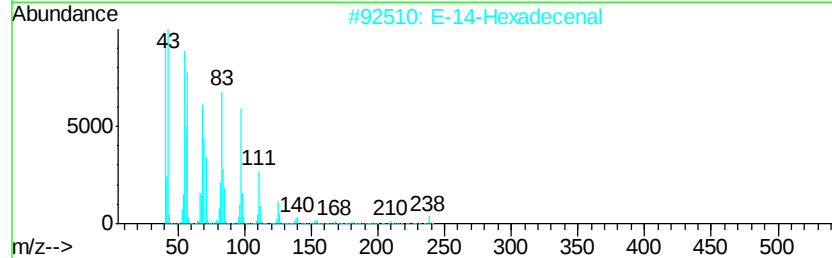
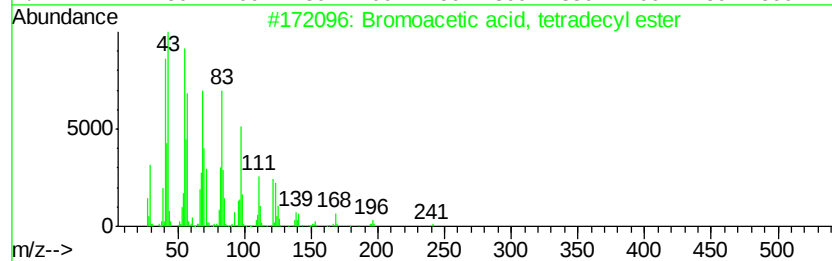
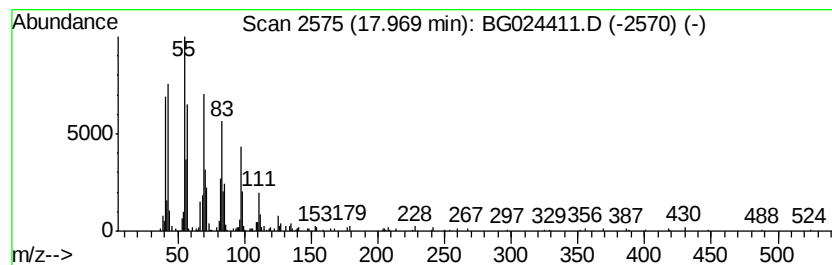
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Bromoacetic acid, tetradecy... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.97 | 2.04 ng/ul | 431013 | Phenanthrene-d10 | 17.64 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | Bromoacetic acid, tetradecyl ester  | 334 | C16H31BrO2 | 018992-01-3 | 90   |
| 2       |   | E-14-Hexadecenal                    | 238 | C16H30O    | 330207-53-9 | 87   |
| 3       |   | Cyclotetradecane                    | 196 | C14H28     | 000295-17-0 | 87   |
| 4       |   | 1-Heptadecene                       | 238 | C17H34     | 006765-39-5 | 83   |
| 5       |   | Acetic acid, chloro-, hexadecyl ... | 318 | C18H35ClO2 | 052132-58-8 | 83   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG101716\  
Data File : BG024411.D  
Acq On : 18 Oct 2016 9:07  
Operator : UM/SJ  
Sample : H5223-06  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BDNJ9

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

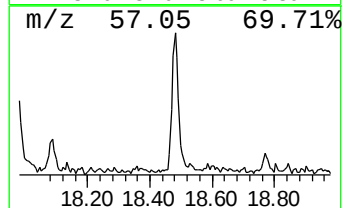
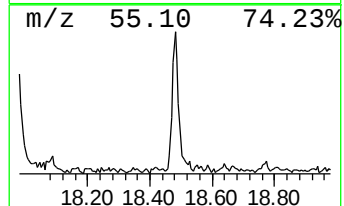
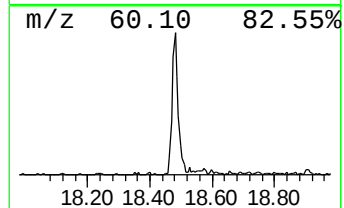
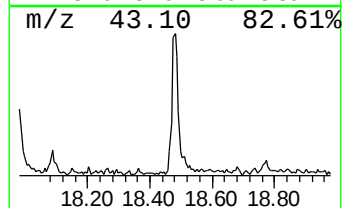
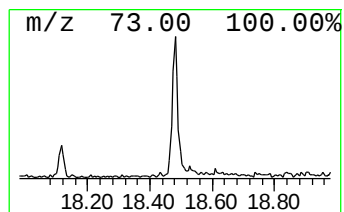
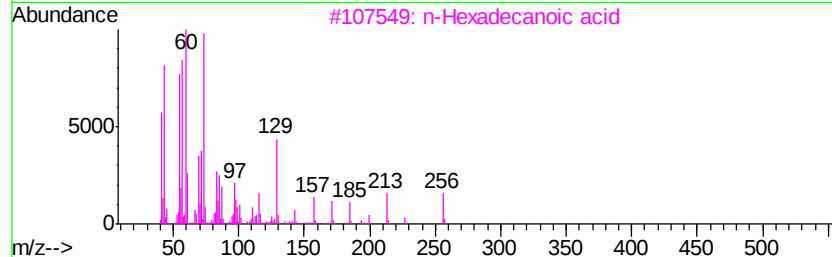
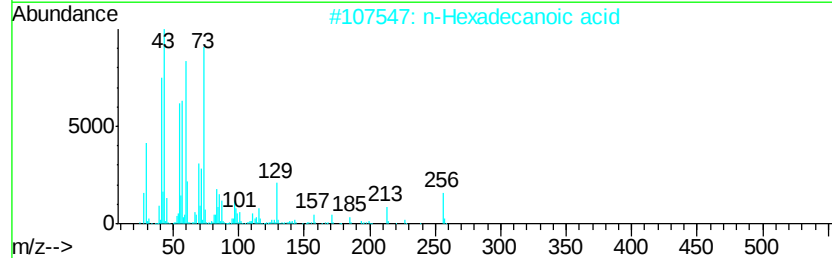
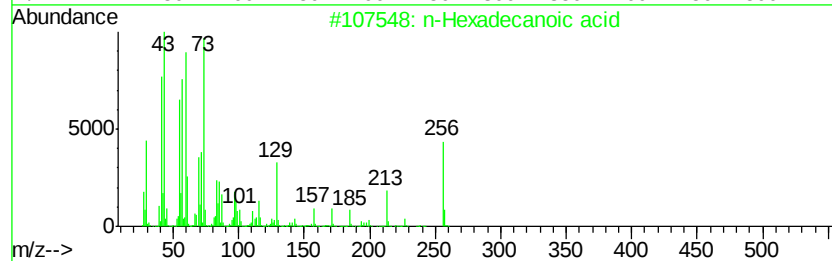
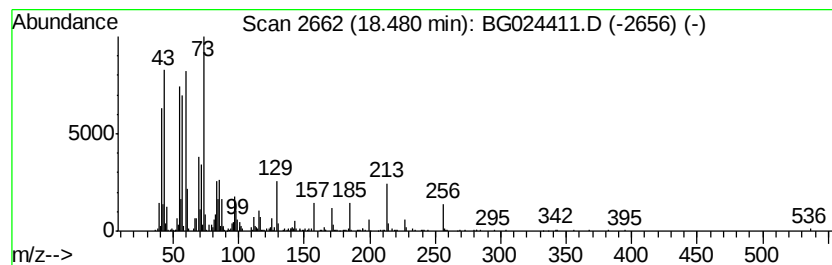
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.48 | 3.49 ng/ul | 736826 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 93   |
| 3    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90   |
| 4    |    | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 76   |
| 5    |    | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 76   |



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Data File : BG024411.D  
Acq On : 18 Oct 2016 9:07  
Operator : UM/SJ  
Sample : H5223-06  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BDNJ9

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

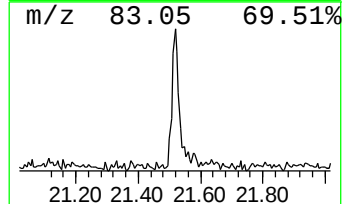
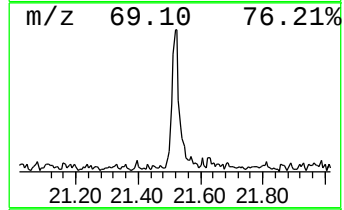
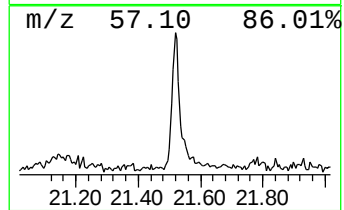
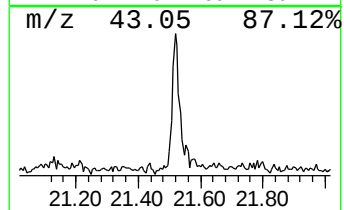
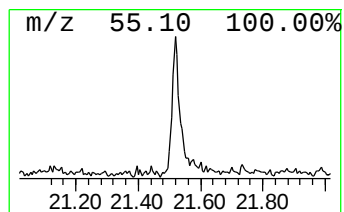
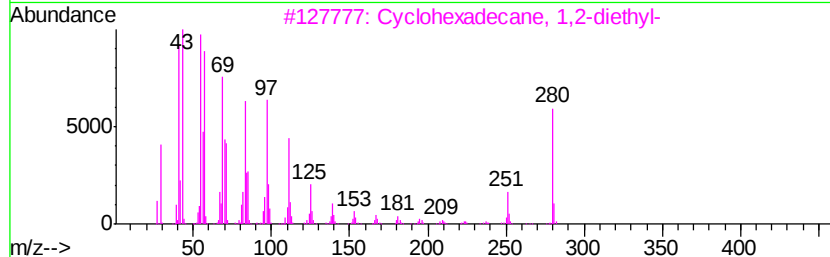
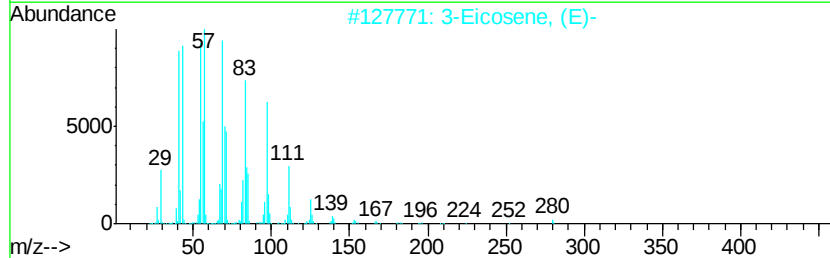
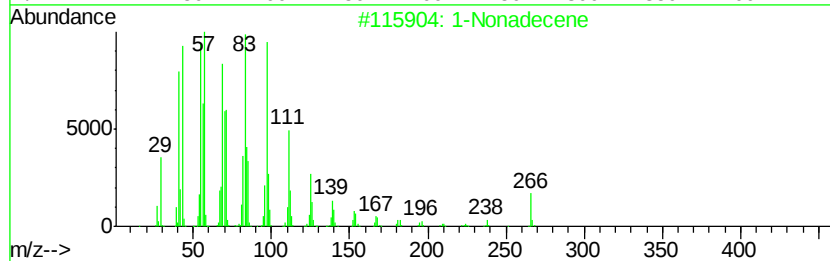
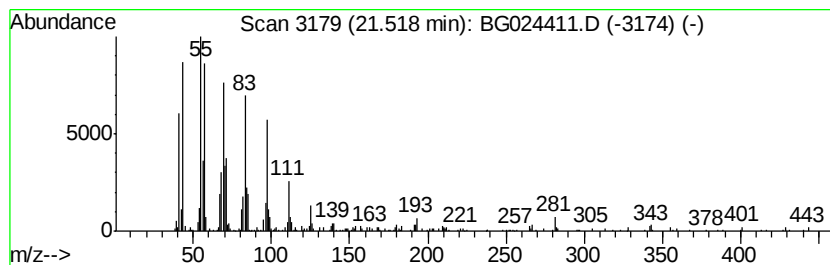
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Cyclic21.52 Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.52 | 2.23 ng/ul | 564743 | Chrysene-d12     | 21.93 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------|-----|---------|--------------|------|
| 1    | 5  | 1-Nonadecene                  | 266 | C19H38  | 018435-45-5  | 95   |
| 2    |    | 3-Eicosene, (E)-              | 280 | C20H40  | 074685-33-9  | 94   |
| 3    |    | Cyclohexadecane, 1,2-diethyl- | 280 | C20H40  | 1000155-85-3 | 91   |
| 4    |    | 1-Heneicosanol                | 312 | C21H44O | 015594-90-8  | 91   |
| 5    |    | Behenic alcohol               | 326 | C22H46O | 000661-19-8  | 91   |



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Operator : UM/SJ  
Sample : H5223-06  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BDNJ9

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.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 |
| 1-Dodecanol, 2-he... | 17.36 | 8.4     | ng/ul | 1782900  | 4                     | 17.64 | 4225150 | 20.0 |
| Bromoacetic acid,... | 17.97 | 2.0     | ng/ul | 431013   | 4                     | 17.64 | 4225150 | 20.0 |
| n-Hexadecanoic acid  | 18.48 | 3.5     | ng/ul | 736826   | 4                     | 17.64 | 4225150 | 20.0 |
| (DEL) Alkane: Cyc... | 21.52 | 2.2     | ng/ul | 564743   | 5                     | 21.93 | 5065980 | 20.0 |