

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
 Data File : BM001478.D  
 Acq On : 30 May 2015 17:00  
 Operator : TP/IZ  
 Sample : G2411-11RE  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BCRC2RE

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 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: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.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         | 2.799       | 16            | 19          | 25           | rBV      | 50710          | 59354         | 1.40%           | 0.086%        |
| 2         | 3.099       | 66            | 70          | 76           | rBV      | 36150          | 52619         | 1.25%           | 0.076%        |
| 3         | 4.469       | 298           | 303         | 309          | rBV      | 19969          | 31093         | 0.74%           | 0.045%        |
| 4         | 4.722       | 342           | 346         | 351          | rBV      | 15702          | 25009         | 0.59%           | 0.036%        |
| 5         | 5.463       | 463           | 472         | 478          | rBV2     | 16308          | 27234         | 0.64%           | 0.039%        |
| 6         | 5.910       | 544           | 548         | 556          | rBV      | 21420          | 44080         | 1.04%           | 0.064%        |
| 7         | 6.428       | 632           | 636         | 646          | rBV4     | 16133          | 34269         | 0.81%           | 0.049%        |
| 8         | 6.581       | 656           | 662         | 670          | rBV      | 992219         | 1471110       | 34.82%          | 2.122%        |
| 9         | 6.722       | 680           | 686         | 695          | rVB      | 704829         | 1032882       | 24.45%          | 1.490%        |
| 10        | 6.916       | 712           | 719         | 729          | rVB      | 990862         | 1520749       | 35.99%          | 2.194%        |
| 11        | 7.375       | 790           | 797         | 806          | rVB      | 803689         | 1204323       | 28.50%          | 1.737%        |
| 12        | 8.116       | 916           | 923         | 933          | rBV      | 1212789        | 1813558       | 42.92%          | 2.616%        |
| 13        | 8.533       | 987           | 994         | 1002         | rBV      | 859073         | 1377824       | 32.61%          | 1.988%        |
| 14        | 8.610       | 1002          | 1007        | 1012         | rVB      | 50607          | 72586         | 1.72%           | 0.105%        |
| 15        | 8.698       | 1017          | 1022        | 1030         | rVB5     | 17922          | 37646         | 0.89%           | 0.054%        |
| 16        | 8.975       | 1063          | 1069        | 1074         | rBV      | 17765          | 28844         | 0.68%           | 0.042%        |
| 17        | 9.257       | 1109          | 1117        | 1123         | rBV      | 789218         | 1257882       | 29.77%          | 1.815%        |
| 18        | 9.375       | 1132          | 1137        | 1143         | rBV2     | 15646          | 26407         | 0.63%           | 0.038%        |
| 19        | 9.798       | 1202          | 1209        | 1226         | rVB      | 1178058        | 1912355       | 45.26%          | 2.759%        |
| 20        | 9.951       | 1230          | 1235        | 1242         | rBV      | 36699          | 61563         | 1.46%           | 0.089%        |
| 21        | 10.157      | 1263          | 1270        | 1278         | rBV      | 1013839        | 1665856       | 39.43%          | 2.403%        |
| 22        | 10.310      | 1289          | 1296        | 1313         | rBV      | 668440         | 1175913       | 27.83%          | 1.696%        |
| 23        | 11.710      | 1526          | 1534        | 1538         | rBV2     | 27645          | 49399         | 1.17%           | 0.071%        |
| 24        | 11.863      | 1553          | 1560        | 1564         | rBV5     | 9593           | 21702         | 0.51%           | 0.031%        |
| 25        | 12.398      | 1644          | 1651        | 1657         | rVB3     | 41428          | 67692         | 1.60%           | 0.098%        |
| 26        | 12.657      | 1691          | 1695        | 1701         | rBV      | 69132          | 100822        | 2.39%           | 0.145%        |
| 27        | 12.986      | 1744          | 1751        | 1756         | rVB5     | 12978          | 21532         | 0.51%           | 0.031%        |
| 28        | 13.486      | 1829          | 1836        | 1840         | rVV      | 1671026        | 2235578       | 52.91%          | 3.225%        |
| 29        | 13.533      | 1840          | 1844        | 1853         | rVB      | 568206         | 749297        | 17.73%          | 1.081%        |
| 30        | 13.751      | 1871          | 1881        | 1891         | rBV      | 2152889        | 3082330       | 72.95%          | 4.447%        |
| 31        | 13.951      | 1903          | 1915        | 1918         | rBV      | 93933          | 147980        | 3.50%           | 0.213%        |
| 32        | 13.980      | 1918          | 1920        | 1926         | rVV      | 28231          | 35688         | 0.84%           | 0.051%        |
| 33        | 14.063      | 1929          | 1934        | 1942         | rVV2     | 1322600        | 2041996       | 48.33%          | 2.946%        |
| 34        | 14.310      | 1968          | 1976        | 1991         | rVV      | 800734         | 1193614       | 28.25%          | 1.722%        |

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Integrator: RTE  
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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: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.445 | 1994 | 1999 | 2003 | rVV4 | 26888   | 50002   | 1.18%  | 0.072% |
| 36 | 14.515 | 2007 | 2011 | 2014 | rVV4 | 13770   | 24173   | 0.57%  | 0.035% |
| 37 | 14.604 | 2022 | 2026 | 2032 | rVB2 | 18547   | 31970   | 0.76%  | 0.046% |
| 38 | 14.945 | 2077 | 2084 | 2089 | rVB  | 41499   | 56697   | 1.34%  | 0.082% |
| 39 | 15.068 | 2098 | 2105 | 2112 | rBV  | 2597554 | 3501621 | 82.88% | 5.052% |
| 40 | 15.204 | 2123 | 2128 | 2141 | rBV  | 503434  | 704204  | 16.67% | 1.016% |
| 41 | 15.351 | 2147 | 2153 | 2157 | rVB5 | 13254   | 24056   | 0.57%  | 0.035% |
| 42 | 15.804 | 2226 | 2230 | 2233 | rBV  | 69103   | 90141   | 2.13%  | 0.130% |
| 43 | 15.974 | 2253 | 2259 | 2263 | rBV5 | 14332   | 26010   | 0.62%  | 0.038% |
| 44 | 16.033 | 2263 | 2269 | 2275 | rVV7 | 15760   | 30452   | 0.72%  | 0.044% |
| 45 | 16.251 | 2296 | 2306 | 2313 | rVV6 | 65961   | 124532  | 2.95%  | 0.180% |
| 46 | 16.598 | 2361 | 2365 | 2370 | rBV2 | 83525   | 106468  | 2.52%  | 0.154% |
| 47 | 16.645 | 2370 | 2373 | 2381 | rVB6 | 20646   | 33179   | 0.79%  | 0.048% |
| 48 | 16.739 | 2386 | 2389 | 2396 | rBV8 | 20009   | 36798   | 0.87%  | 0.053% |
| 49 | 16.815 | 2396 | 2402 | 2407 | rBV  | 1577340 | 2110690 | 49.96% | 3.045% |
| 50 | 16.856 | 2407 | 2409 | 2411 | rVV  | 82222   | 97544   | 2.31%  | 0.141% |
| 51 | 16.915 | 2411 | 2419 | 2432 | rVB  | 2598521 | 3601160 | 85.23% | 5.195% |
| 52 | 17.015 | 2432 | 2436 | 2440 | rBV5 | 16993   | 23809   | 0.56%  | 0.034% |
| 53 | 17.062 | 2440 | 2444 | 2448 | rBV5 | 18677   | 26305   | 0.62%  | 0.038% |
| 54 | 17.215 | 2462 | 2470 | 2480 | rBV6 | 52757   | 124998  | 2.96%  | 0.180% |
| 55 | 17.333 | 2486 | 2490 | 2493 | rBV  | 52425   | 64682   | 1.53%  | 0.093% |
| 56 | 17.362 | 2493 | 2495 | 2499 | rVB2 | 22204   | 24908   | 0.59%  | 0.036% |
| 57 | 17.615 | 2532 | 2538 | 2543 | rBV2 | 81124   | 142857  | 3.38%  | 0.206% |
| 58 | 17.674 | 2545 | 2548 | 2553 | rBV3 | 73360   | 107649  | 2.55%  | 0.155% |
| 59 | 17.739 | 2553 | 2559 | 2567 | rBV  | 1186329 | 1562269 | 36.98% | 2.254% |
| 60 | 17.880 | 2579 | 2583 | 2587 | rBV4 | 24777   | 46809   | 1.11%  | 0.068% |
| 61 | 17.921 | 2587 | 2590 | 2595 | rVB3 | 50127   | 65330   | 1.55%  | 0.094% |
| 62 | 18.027 | 2604 | 2608 | 2617 | rBV5 | 34535   | 80585   | 1.91%  | 0.116% |
| 63 | 18.162 | 2627 | 2631 | 2634 | rBV5 | 25776   | 30332   | 0.72%  | 0.044% |
| 64 | 18.198 | 2634 | 2637 | 2640 | rBV3 | 21736   | 25141   | 0.60%  | 0.036% |
| 65 | 18.239 | 2640 | 2644 | 2647 | rVB6 | 19261   | 26157   | 0.62%  | 0.038% |
| 66 | 18.668 | 2714 | 2717 | 2724 | rBV  | 66477   | 99250   | 2.35%  | 0.143% |
| 67 | 18.762 | 2729 | 2733 | 2741 | rVB5 | 40051   | 62466   | 1.48%  | 0.090% |
| 68 | 18.886 | 2749 | 2754 | 2755 | rBV  | 297196  | 341411  | 8.08%  | 0.493% |
| 69 | 18.909 | 2755 | 2758 | 2770 | rVV  | 394127  | 685692  | 16.23% | 0.989% |
| 70 | 19.033 | 2774 | 2779 | 2786 | rBV  | 306800  | 443796  | 10.50% | 0.640% |
| 71 | 19.227 | 2806 | 2812 | 2820 | rBV  | 2736203 | 3941190 | 93.28% | 5.686% |

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Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 19.545 | 2864 | 2866 | 2869 | rBV4 | 15845   | 21987   | 0.52%   | 0.032% |
| 73  | 19.680 | 2886 | 2889 | 2892 | rVB2 | 49414   | 52517   | 1.24%   | 0.076% |
| 74  | 19.721 | 2892 | 2896 | 2897 | rBV4 | 19753   | 26105   | 0.62%   | 0.038% |
| 75  | 19.762 | 2899 | 2903 | 2906 | rVV3 | 112342  | 152648  | 3.61%   | 0.220% |
| 76  | 19.797 | 2906 | 2909 | 2914 | rVV  | 150919  | 168709  | 3.99%   | 0.243% |
| 77  | 19.856 | 2916 | 2919 | 2923 | rVV2 | 28761   | 38008   | 0.90%   | 0.055% |
| 78  | 20.086 | 2955 | 2958 | 2961 | rBV2 | 57831   | 67493   | 1.60%   | 0.097% |
| 79  | 20.121 | 2961 | 2964 | 2967 | rVB3 | 53932   | 63086   | 1.49%   | 0.091% |
| 80  | 20.292 | 2988 | 2993 | 2999 | rBV  | 163110  | 235164  | 5.57%   | 0.339% |
| 81  | 20.662 | 3053 | 3056 | 3061 | rBV3 | 56432   | 113211  | 2.68%   | 0.163% |
| 82  | 20.756 | 3067 | 3072 | 3078 | rBV  | 1303133 | 1701883 | 40.28%  | 2.455% |
| 83  | 21.027 | 3112 | 3118 | 3122 | rBV  | 1823308 | 2402845 | 56.87%  | 3.467% |
| 84  | 21.062 | 3122 | 3124 | 3131 | rVB  | 167227  | 216915  | 5.13%   | 0.313% |
| 85  | 21.191 | 3143 | 3146 | 3155 | rVB  | 304068  | 377083  | 8.92%   | 0.544% |
| 86  | 21.609 | 3213 | 3217 | 3226 | rBV4 | 479012  | 977070  | 23.13%  | 1.410% |
| 87  | 22.033 | 3285 | 3289 | 3302 | rVB  | 642237  | 999233  | 23.65%  | 1.442% |
| 88  | 22.150 | 3307 | 3309 | 3316 | rVB  | 149746  | 182385  | 4.32%   | 0.263% |
| 89  | 22.244 | 3321 | 3325 | 3334 | rBV  | 967249  | 1299919 | 30.77%  | 1.875% |
| 90  | 22.497 | 3364 | 3368 | 3371 | rBV  | 805111  | 1159780 | 27.45%  | 1.673% |
| 91  | 22.538 | 3371 | 3375 | 3385 | rVB  | 2852993 | 4225035 | 100.00% | 6.095% |
| 92  | 22.991 | 3445 | 3452 | 3463 | rVB2 | 1903167 | 3663591 | 86.71%  | 5.285% |
| 93  | 23.121 | 3468 | 3474 | 3479 | rBV2 | 1153116 | 1911629 | 45.25%  | 2.758% |
| 94  | 23.597 | 3549 | 3555 | 3563 | rVB  | 888900  | 1566604 | 37.08%  | 2.260% |
| 95  | 23.674 | 3563 | 3568 | 3578 | rVB  | 441974  | 836004  | 19.79%  | 1.206% |
| 96  | 24.274 | 3665 | 3670 | 3675 | rVB3 | 188846  | 351587  | 8.32%   | 0.507% |
| 97  | 25.050 | 3795 | 3802 | 3808 | rBV2 | 387059  | 1006941 | 23.83%  | 1.453% |
| 98  | 25.179 | 3819 | 3824 | 3837 | rVB3 | 311400  | 810536  | 19.18%  | 1.169% |
| 99  | 25.315 | 3842 | 3847 | 3856 | rVB7 | 237633  | 593558  | 14.05%  | 0.856% |
| 100 | 25.874 | 3936 | 3942 | 3951 | rVB4 | 324626  | 837807  | 19.83%  | 1.209% |

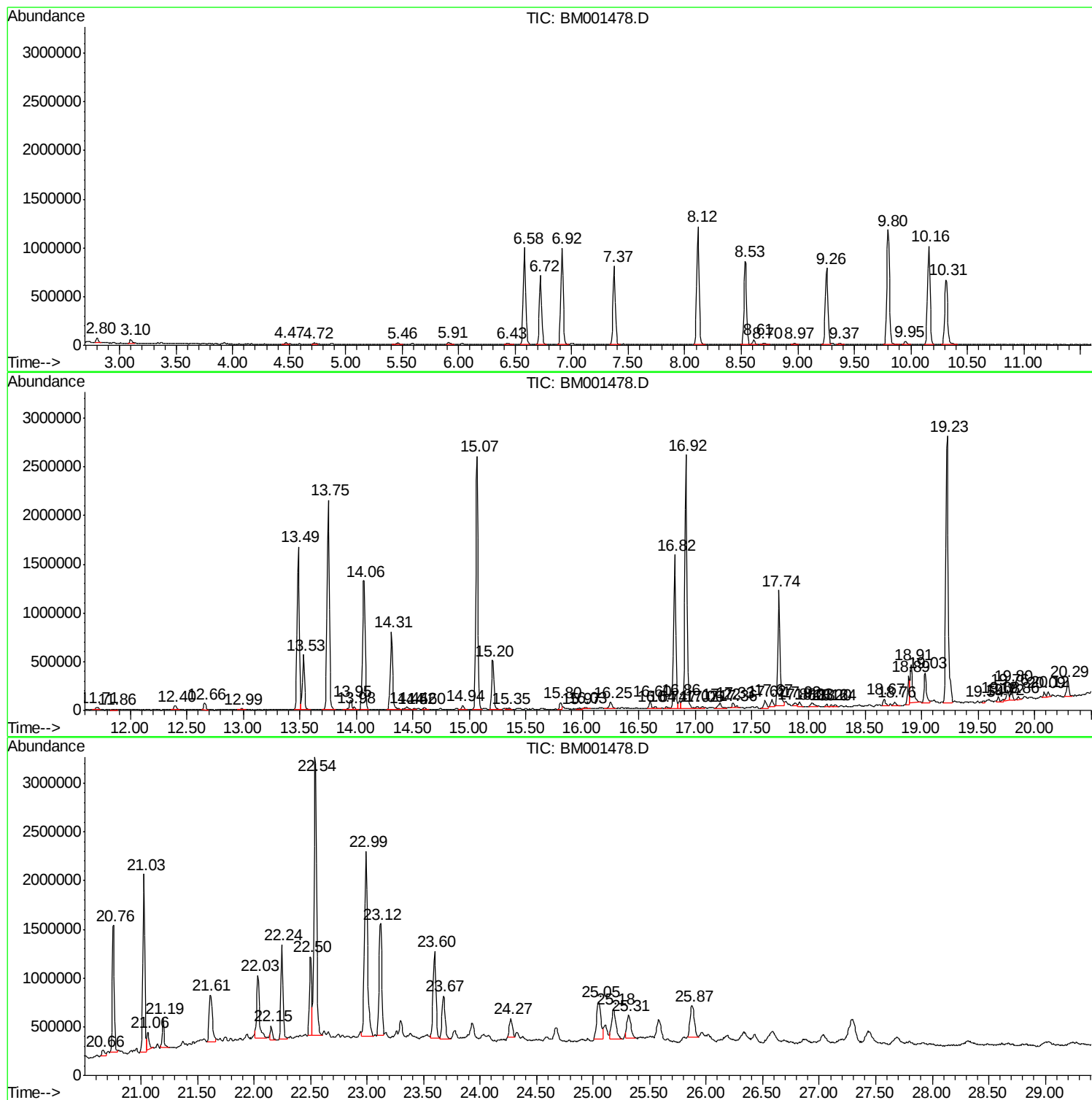
Sum of corrected areas: 69315452

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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
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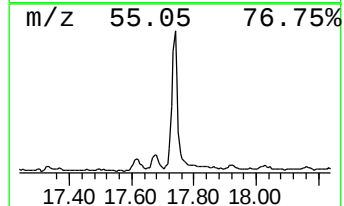
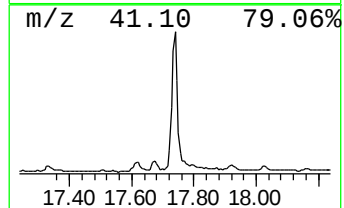
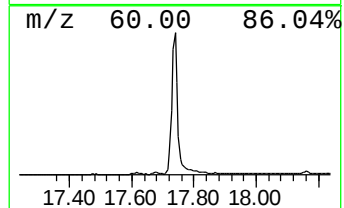
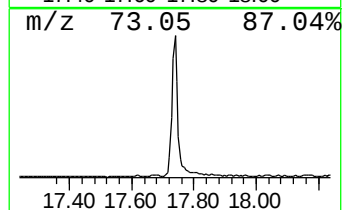
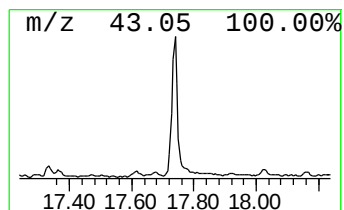
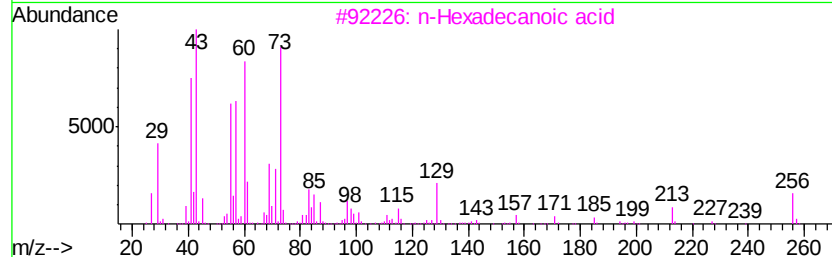
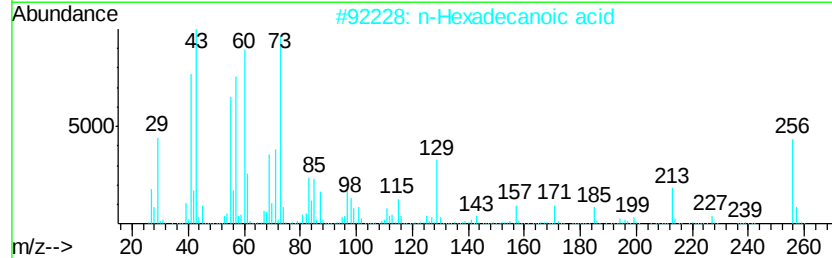
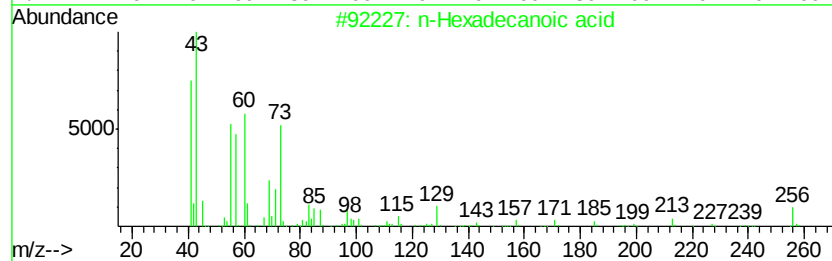
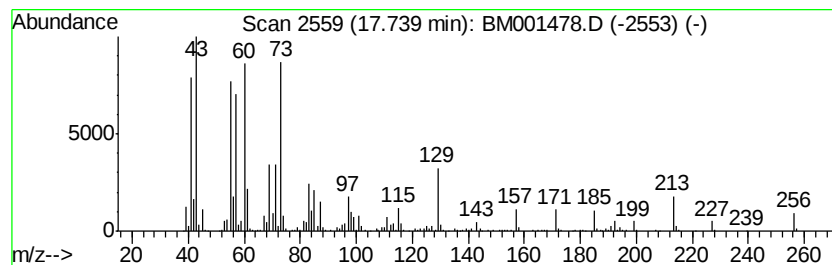
Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

| R.T.    | EstConc             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|---------------------|--------------|------------------|-------------|------|------|
| 17.74   | 14.80 ng/ul         | 1562270      | Phenanthrene-d10 | 16.82       |      |      |
| Hit# of | 5                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 95   |      |
| 2       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 91   |      |
| 3       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 83   |      |
| 4       | Pentadecanoic acid  | 242          | C15H30O2         | 001002-84-2 | 83   |      |
| 5       | Tetradecanoic acid  | 228          | C14H28O2         | 000544-63-8 | 83   |      |



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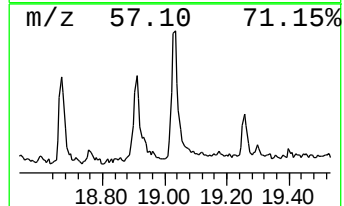
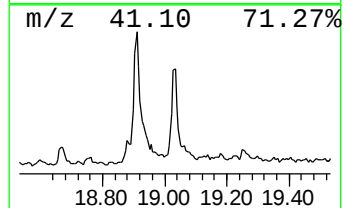
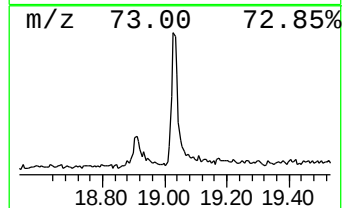
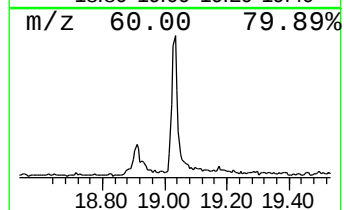
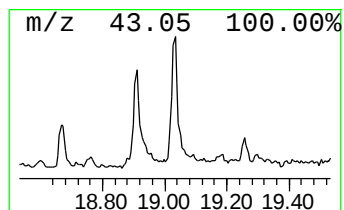
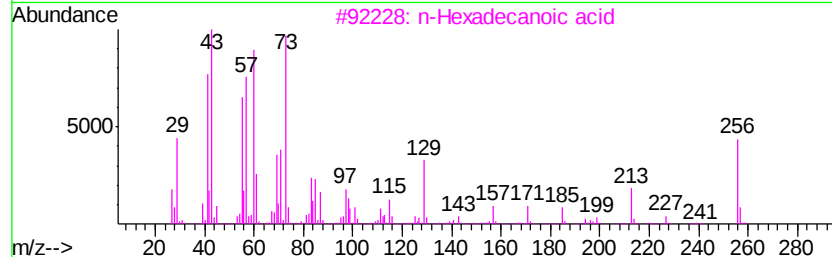
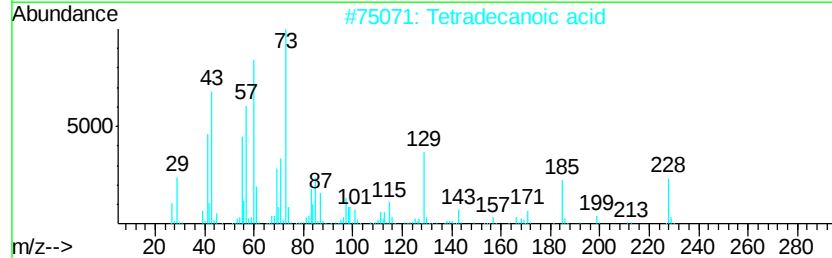
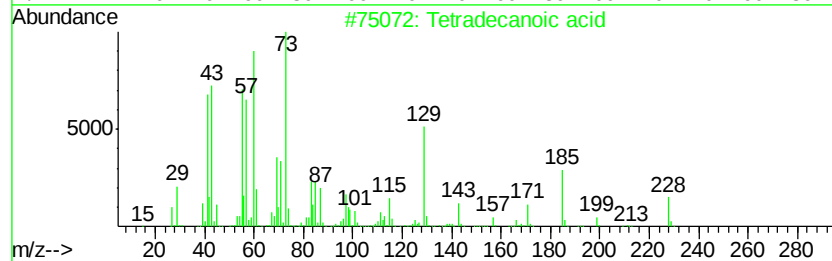
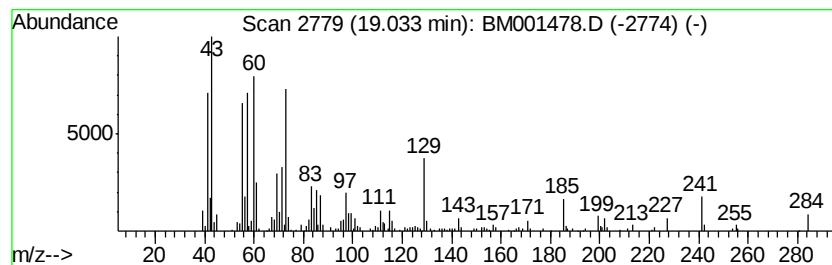
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Tetradecanoic acid Concentration Rank 12

| R.T.  | EstConc    | Area   | Relative to ISTD    |     | R.T.     |             |      |
|-------|------------|--------|---------------------|-----|----------|-------------|------|
| 19.03 | 3.69 ng/ul | 443796 | Chrysene-d12        |     | 21.03    |             |      |
| Hit#  | of         | 5      | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
| 1     |            |        | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 58   |
| 2     |            |        | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 58   |
| 3     |            |        | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 53   |
| 4     |            |        | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 52   |
| 5     |            |        | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 50   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

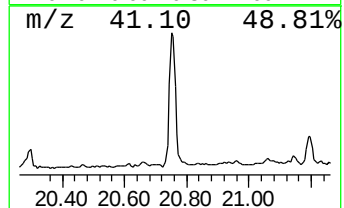
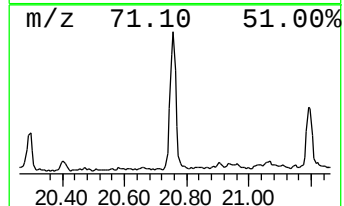
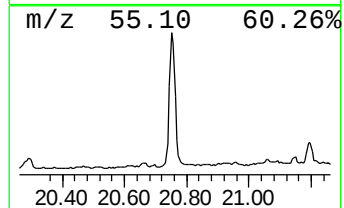
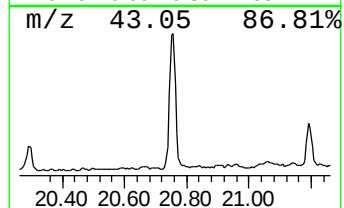
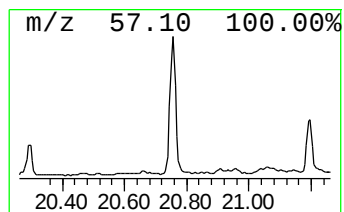
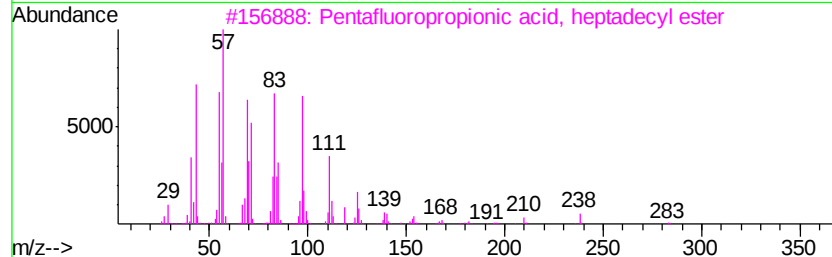
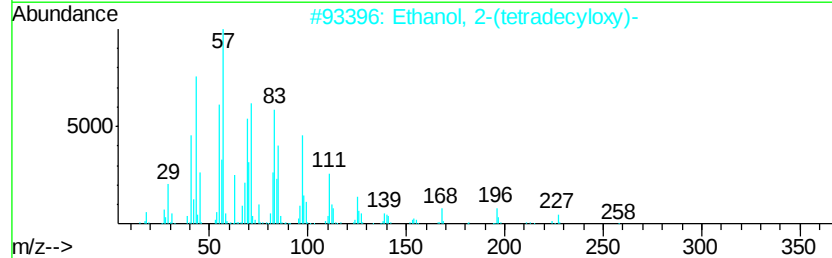
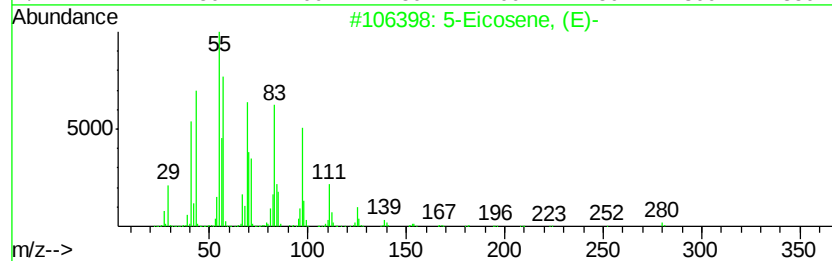
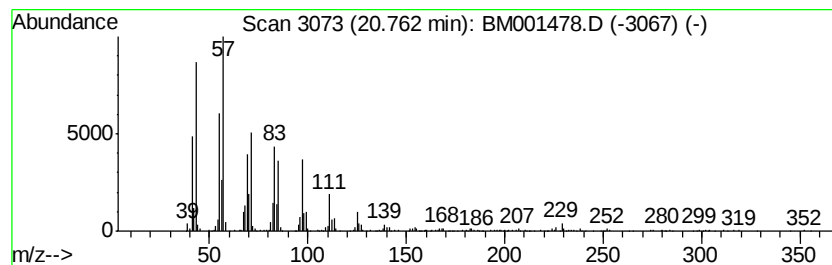
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Cyclic-01 Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 20.76 | 14.17 ng/ul | 1701880 | Chrysene-d12     | 21.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 5-Eicosene, (E)-                    | 280 | C20H40      | 074685-30-6  | 94   |
| 2    |    | Ethanol, 2-(tetradecyloxy)-         | 258 | C16H34O2    | 002136-70-1  | 91   |
| 3    |    | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2  | 1000283-04-2 | 91   |
| 4    |    | 1-Hexadecanesulfonyl chloride       | 324 | C16H33ClO2S | 038775-38-1  | 91   |
| 5    |    | 17-Pentatriacontene                 | 491 | C35H70      | 006971-40-0  | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

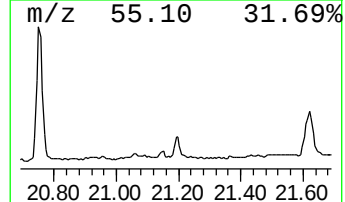
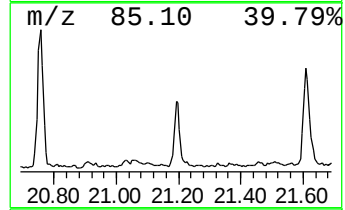
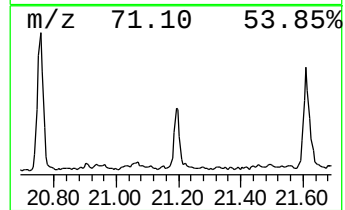
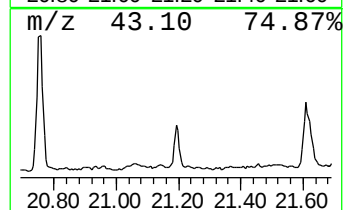
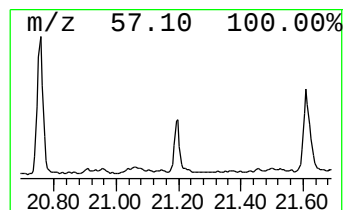
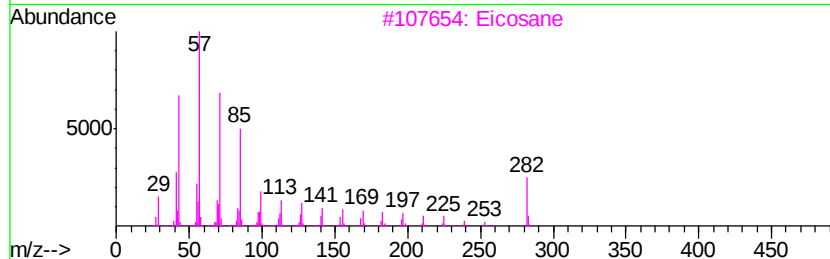
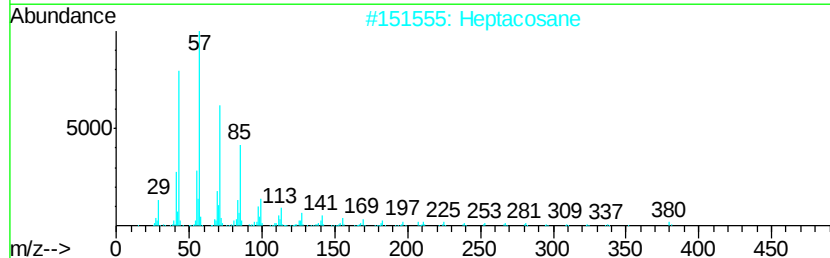
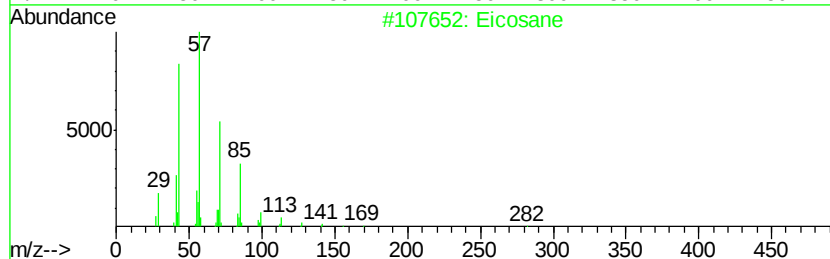
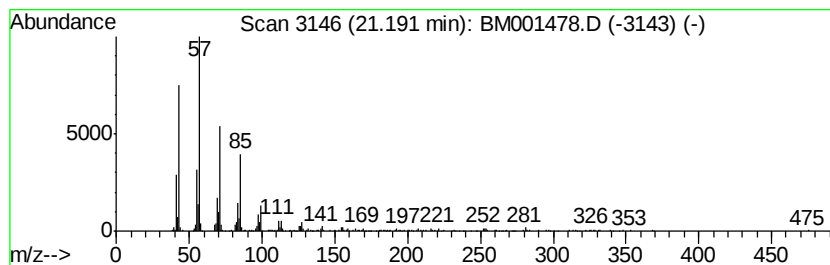
Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 14

| R.T.    | EstConc     | Area         | Relative to ISTD | R.T.           |
|---------|-------------|--------------|------------------|----------------|
| 21.19   | 3.14 ng/ul  | 377083       | Chrysene-d12     | 21.03          |
| Hit# of | 5           | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Eicosane    |              | 282 C20H42       | 000112-95-8 91 |
| 2       | Heptacosane |              | 380 C27H56       | 000593-49-7 87 |
| 3       | Eicosane    |              | 282 C20H42       | 000112-95-8 83 |
| 4       | Tetradecane |              | 198 C14H30       | 000629-59-4 83 |
| 5       | Octacosane  |              | 394 C28H58       | 000630-02-4 83 |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

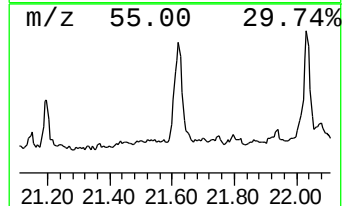
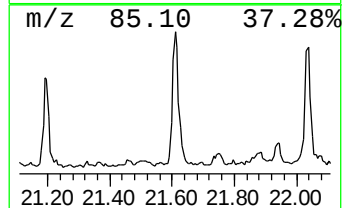
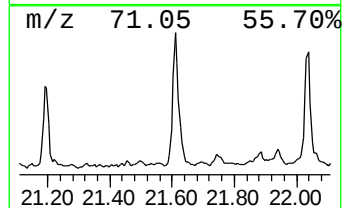
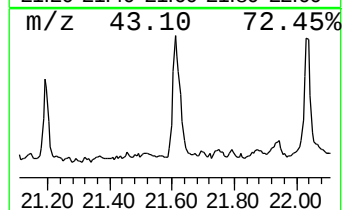
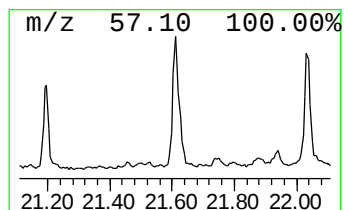
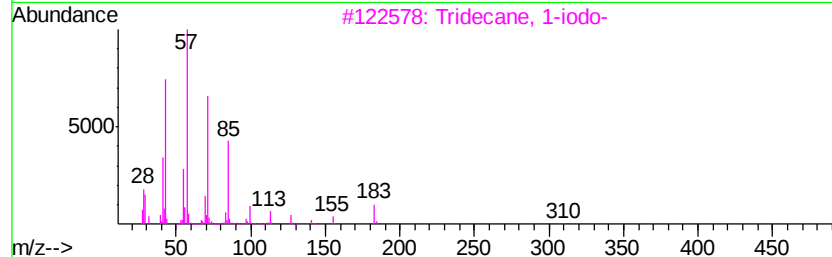
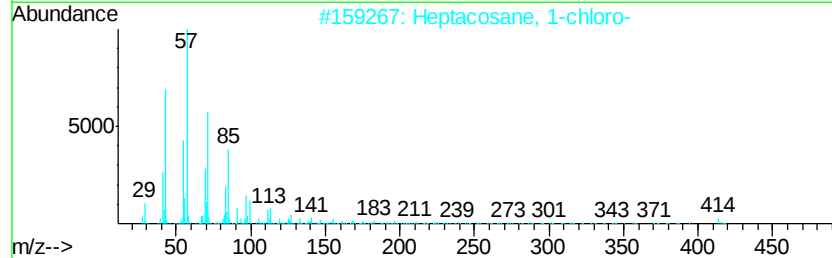
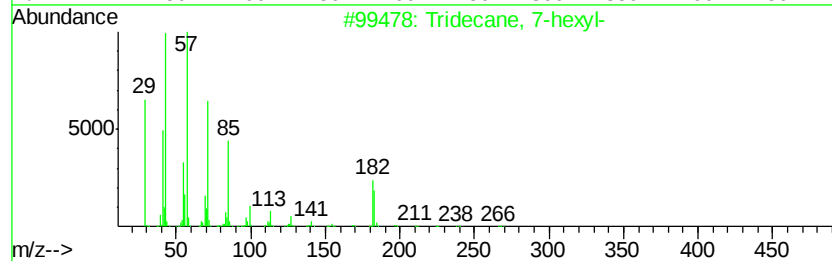
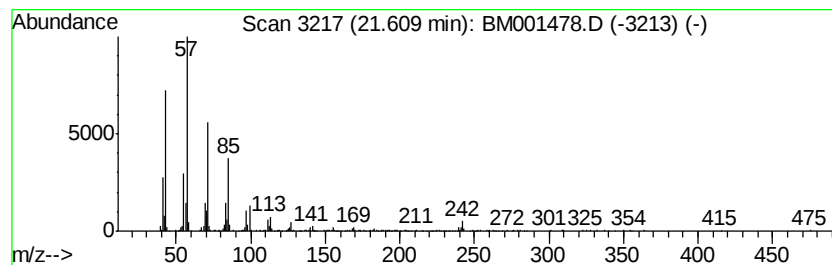
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.61 | 8.13 ng/ul | 977070 | Chrysene-d12     | 21.03 |

| Hit# | of | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------|-----|----------|-------------|------|
| 1    | 5  | Tridecane, 7-hexyl-    | 268 | C19H40   | 007225-66-3 | 91   |
| 2    |    | Heptacosane, 1-chloro- | 414 | C27H55Cl | 062016-79-9 | 90   |
| 3    |    | Tridecane, 1-iodo-     | 310 | C13H27I  | 035599-77-0 | 90   |
| 4    |    | Tetratetracontane      | 619 | C44H90   | 007098-22-8 | 90   |
| 5    |    | Octacosane             | 394 | C28H58   | 000630-02-4 | 90   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

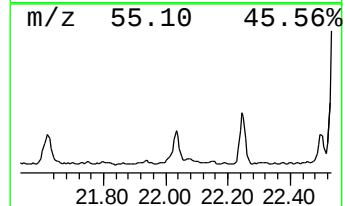
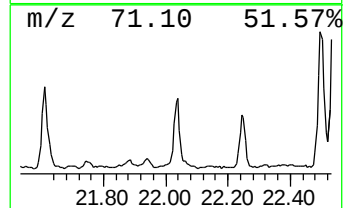
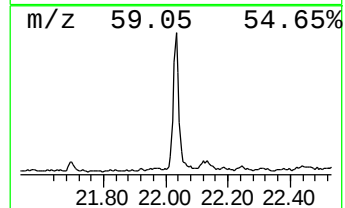
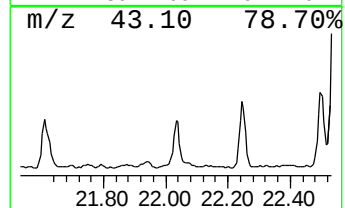
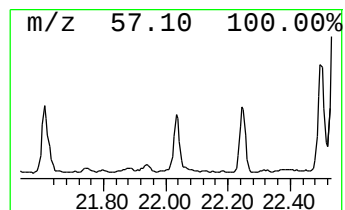
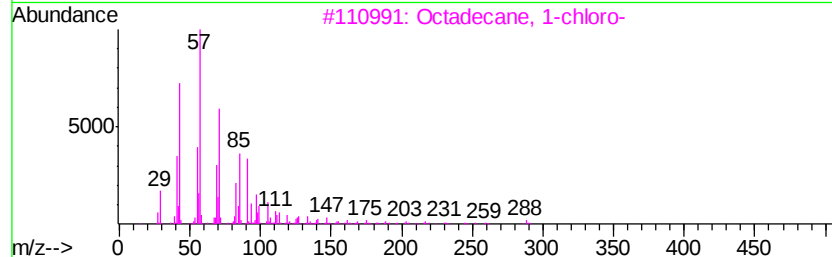
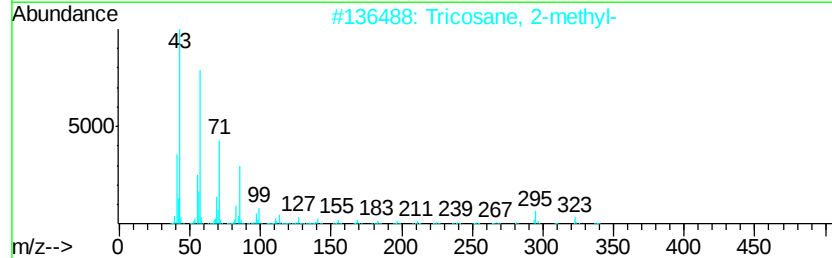
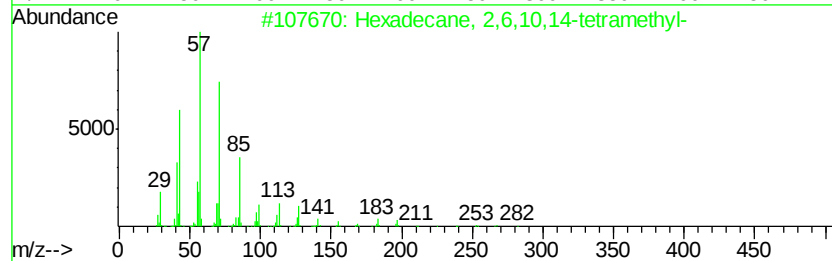
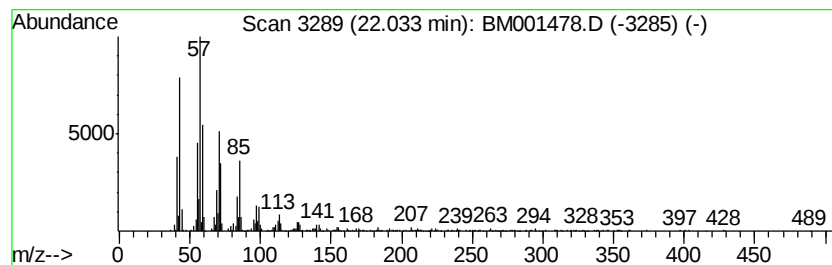
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.03 | 8.32 ng/ul | 999233 | Chrysene-d12     | 21.03 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42   | 000638-36-8 | 70   |
| 2    |    | Tricosane, 2-methyl-               | 338 | C24H50   | 001928-30-9 | 55   |
| 3    |    | Octadecane, 1-chloro-              | 288 | C18H37Cl | 003386-33-2 | 55   |
| 4    |    | Octacosane                         | 394 | C28H58   | 000630-02-4 | 53   |
| 5    |    | Tridecane, 2-methyl-               | 198 | C14H30   | 001560-96-9 | 50   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

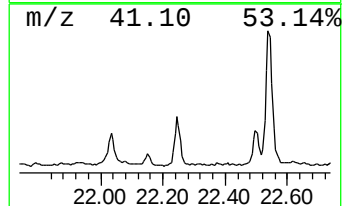
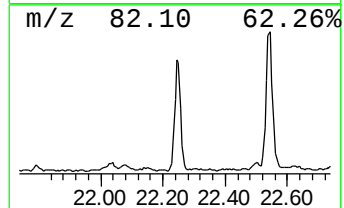
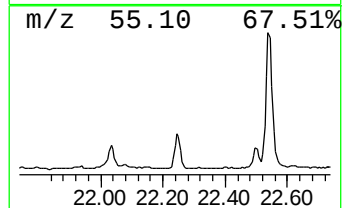
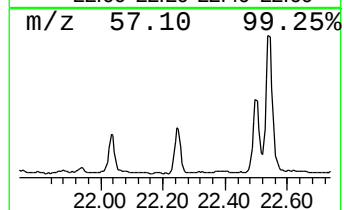
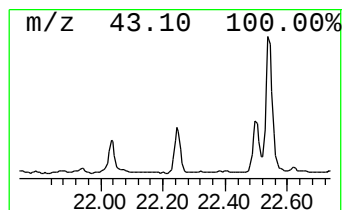
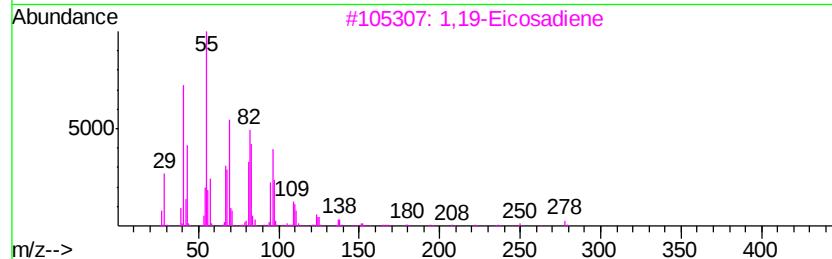
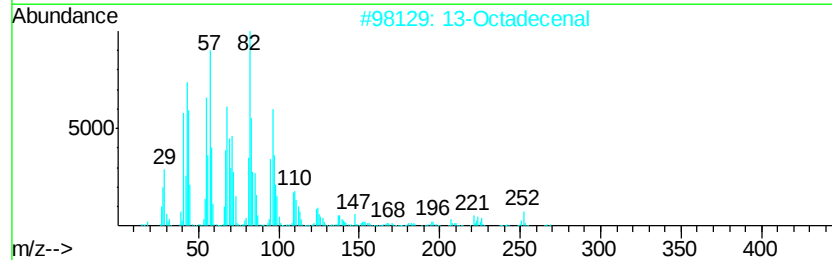
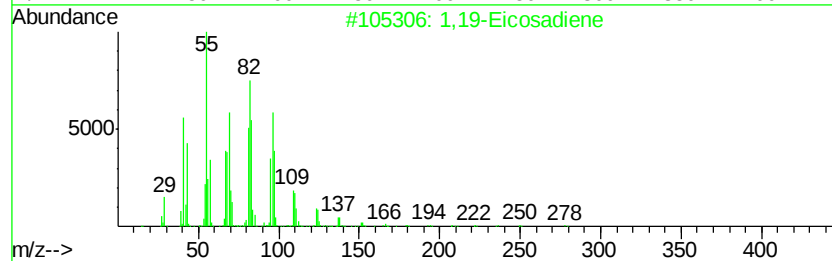
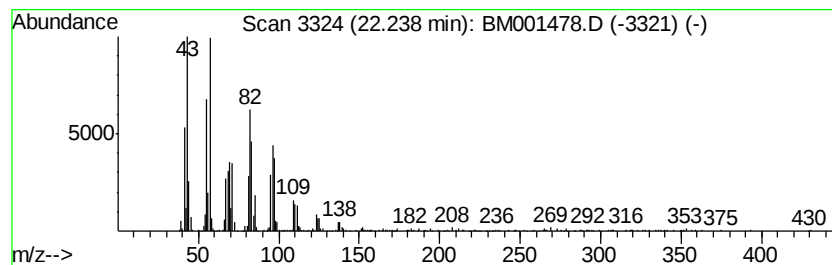
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 1,19-Eicosadiene Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 22.24 | 13.60 ng/ul | 1299920 | Perylene-d12     | 23.12 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | 1,19-Eicosadiene | 278 | C20H38  | 014811-95-1 | 95   |
| 2    |    | 13-Octadecenal   | 266 | C18H34O | 056554-90-6 | 94   |
| 3    |    | 1,19-Eicosadiene | 278 | C20H38  | 014811-95-1 | 93   |
| 4    |    | 16-Octadecenal   | 266 | C18H34O | 056554-87-1 | 93   |
| 5    |    | 17-Octadecenal   | 266 | C18H34O | 056554-86-0 | 93   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

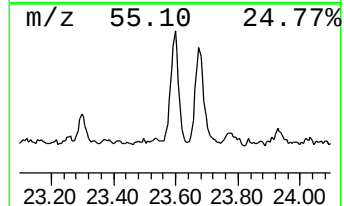
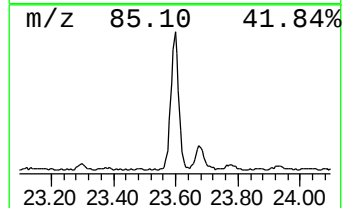
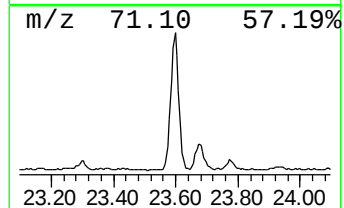
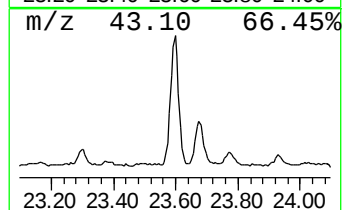
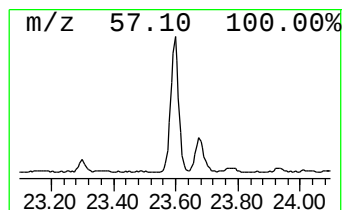
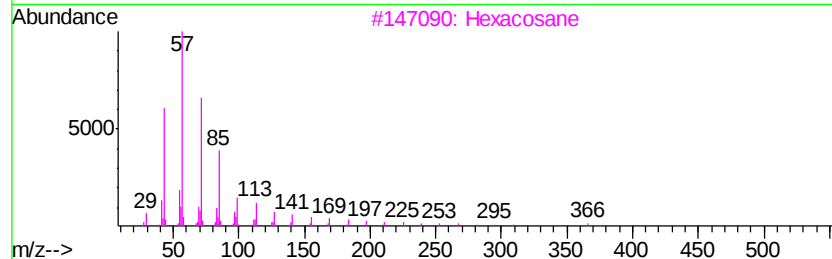
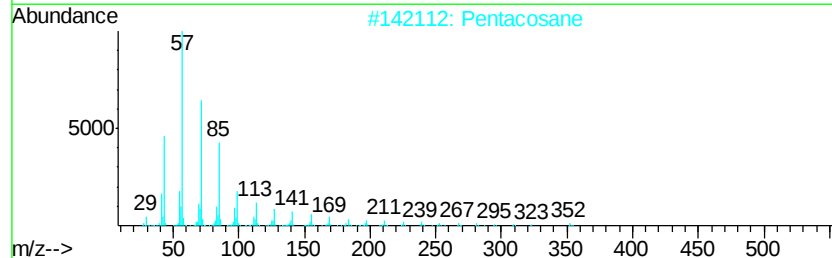
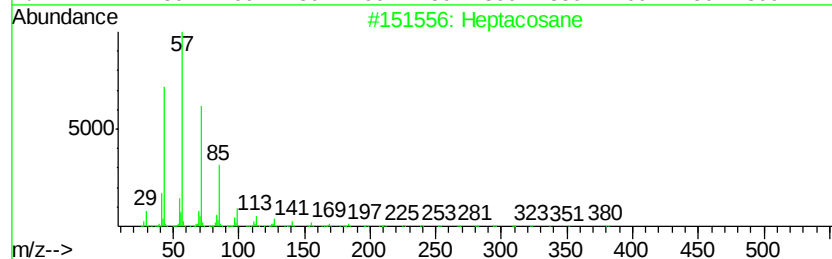
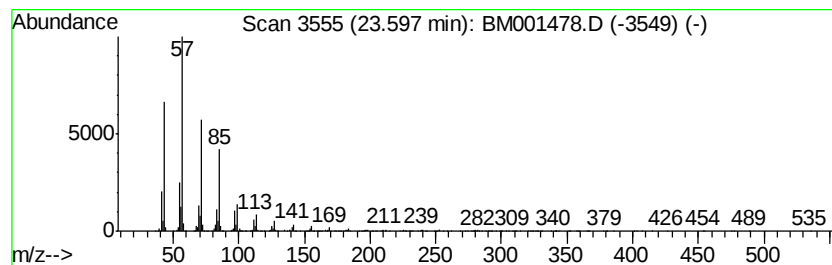
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 23.60 | 16.39 ng/ul | 1566600 | Perylene-d12     | 23.12 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane  | 380 | C27H56  | 000593-49-7 | 98   |
| 2    |    | Pentacosane  | 352 | C25H52  | 000629-99-2 | 96   |
| 3    |    | Hexacosane   | 366 | C26H54  | 000630-01-3 | 93   |
| 4    |    | Tricosane    | 324 | C23H48  | 000638-67-5 | 93   |
| 5    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 92   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

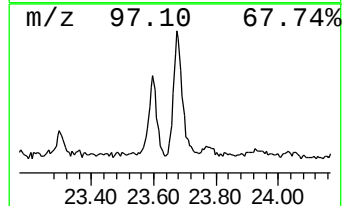
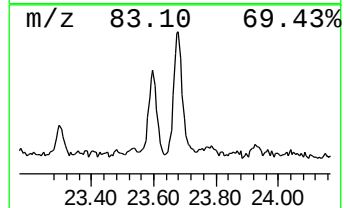
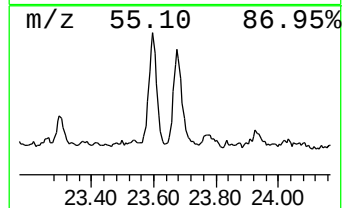
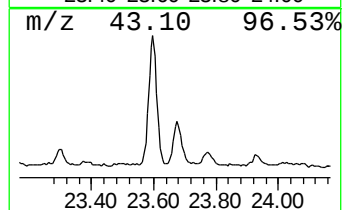
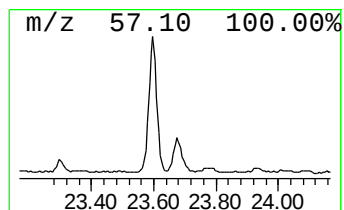
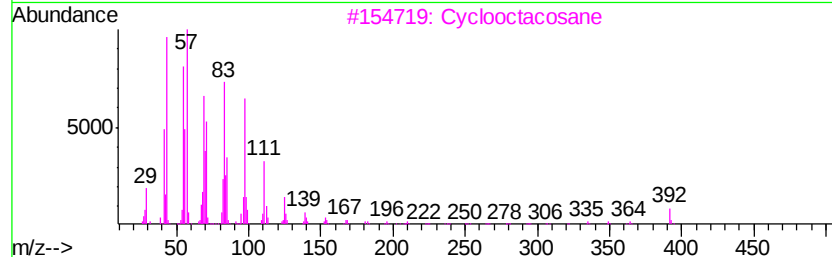
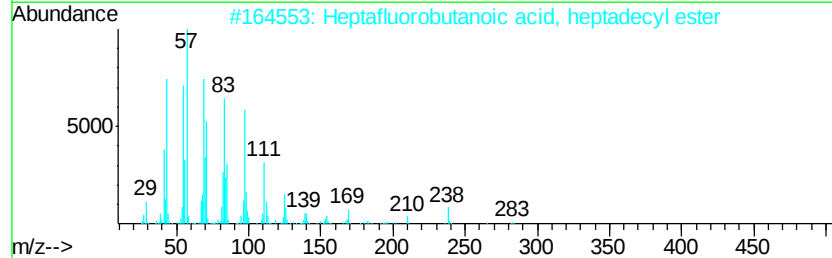
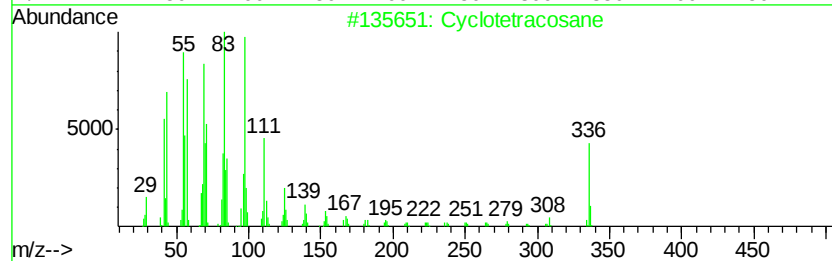
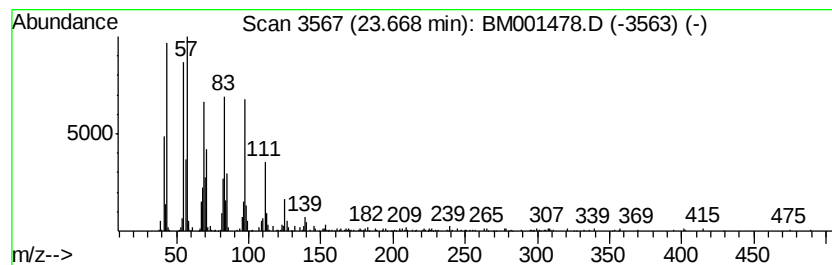
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 (DEL) Alkane: Cyclic-06 Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.67 | 8.75 ng/ul | 836004 | Perylene-d12     | 23.12 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cyclotetracosane                    | 336 | C24H48     | 000297-03-0  | 95   |
| 2    |    | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2 | 1000282-97-3 | 91   |
| 3    |    | Cyclooctacosane                     | 392 | C28H56     | 000297-24-5  | 91   |
| 4    |    | 1-Docosene                          | 308 | C22H44     | 001599-67-3  | 91   |
| 5    |    | 1-Docosene                          | 308 | C22H44     | 001599-67-3  | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

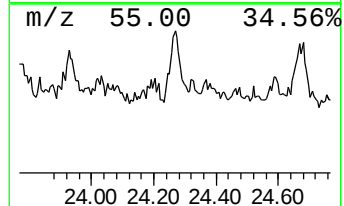
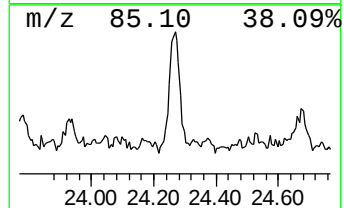
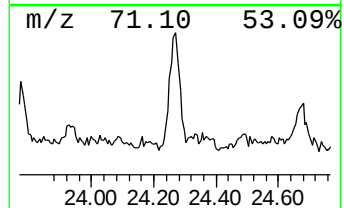
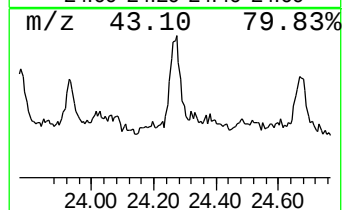
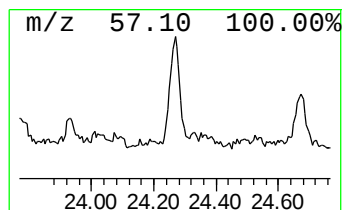
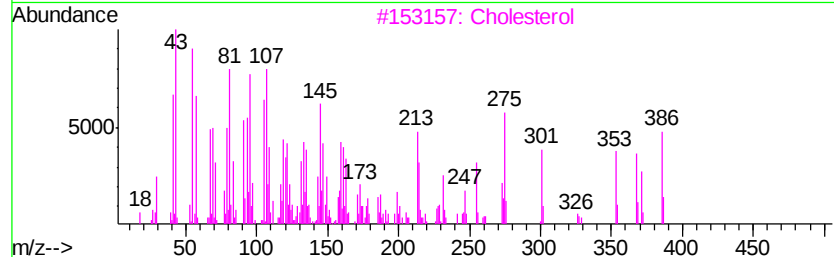
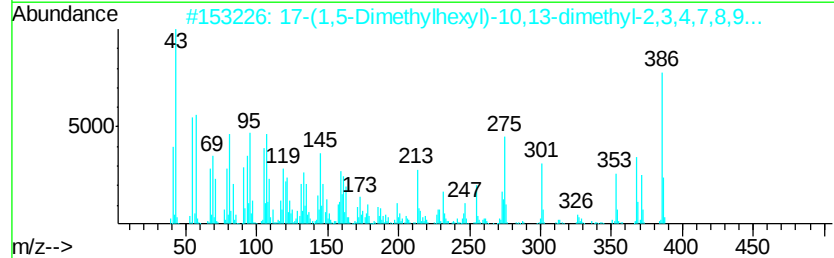
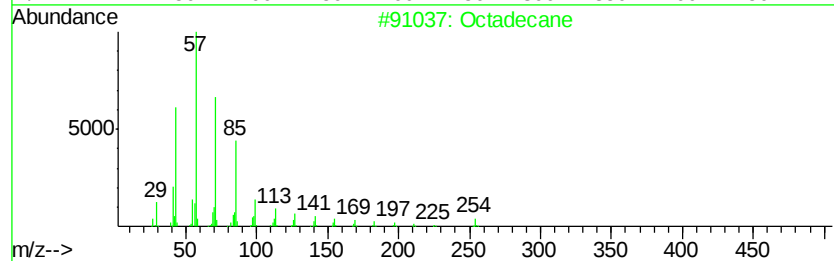
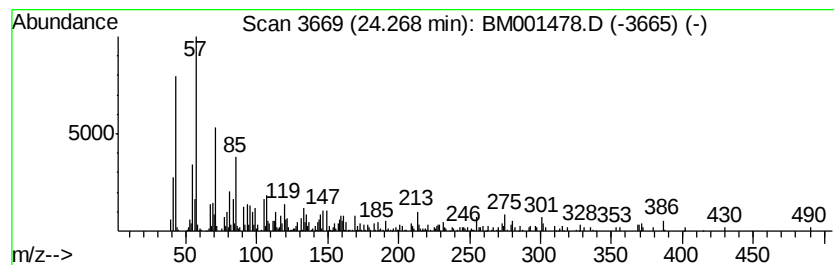
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.27 | 3.68 ng/ul | 351587 | Perylene-d12     | 23.12 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Octadecane                          | 254 | C18H38  | 000593-45-3  | 80   |
| 2    |    |   | 17-(1,5-Dimethylhexyl)-10,13-dim... | 386 | C27H46O | 1000210-38-4 | 59   |
| 3    |    |   | Cholesterol                         | 386 | C27H46O | 000057-88-5  | 53   |
| 4    |    |   | Hexadecane                          | 226 | C16H34  | 000544-76-3  | 50   |
| 5    |    |   | Heneicosane                         | 296 | C21H44  | 000629-94-7  | 50   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

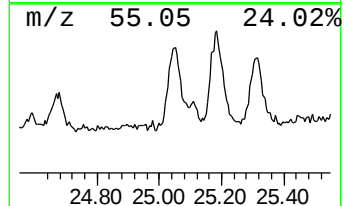
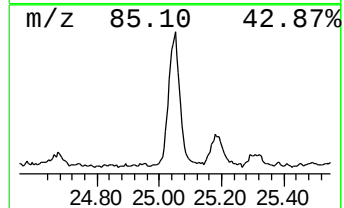
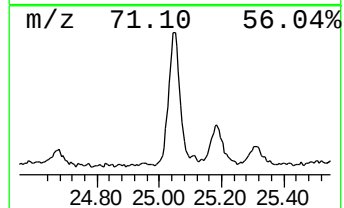
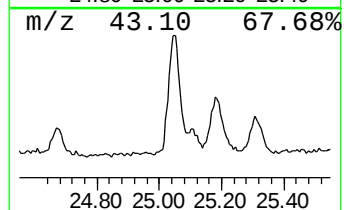
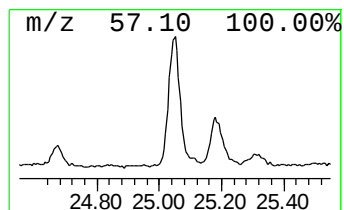
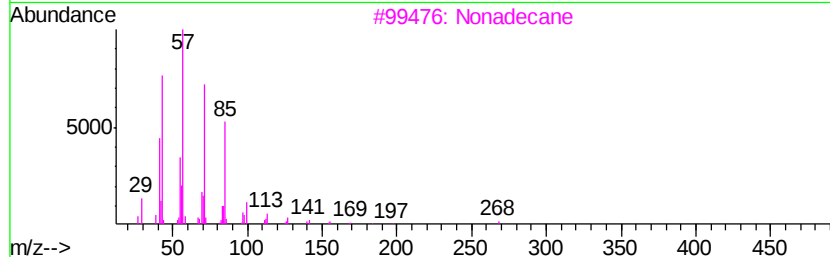
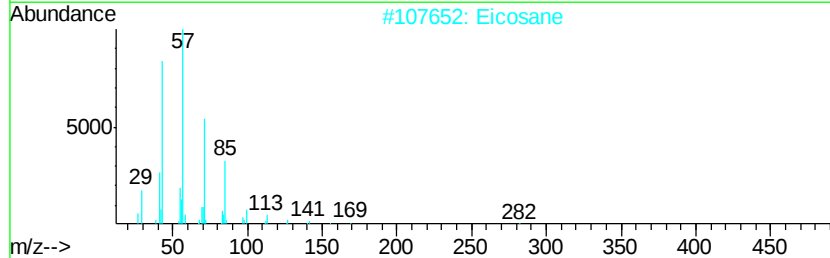
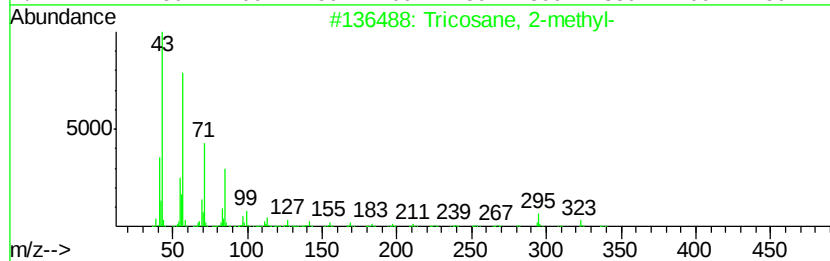
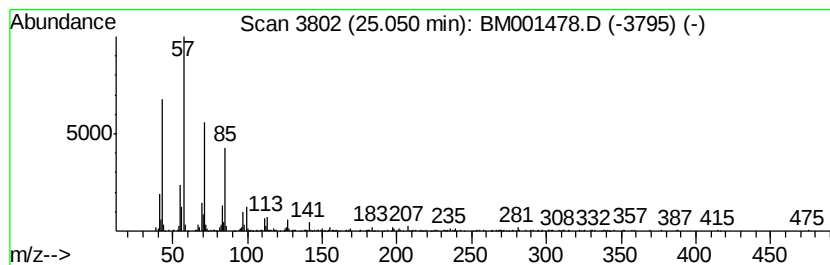
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 25.05 | 10.53 ng/ul | 1006940 | Perylene-d12     | 23.12 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Tricosane, 2-methyl- | 338 | C24H50  | 001928-30-9 | 93   |
| 2    |    | Eicosane             | 282 | C20H42  | 000112-95-8 | 91   |
| 3    |    | Nonadecane           | 268 | C19H40  | 000629-92-5 | 90   |
| 4    |    | Hexatriacontane      | 507 | C36H74  | 000630-06-8 | 90   |
| 5    |    | Heptacosane          | 380 | C27H56  | 000593-49-7 | 90   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

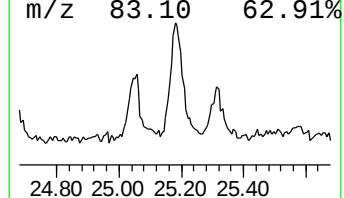
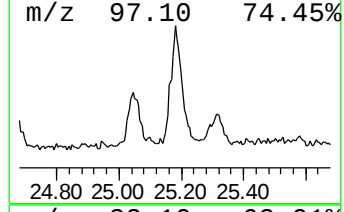
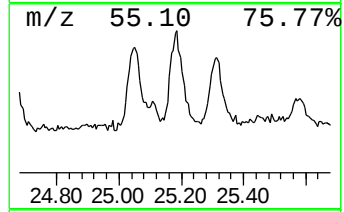
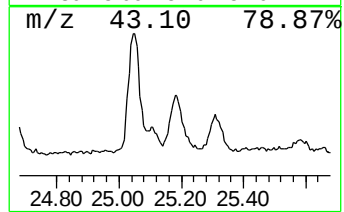
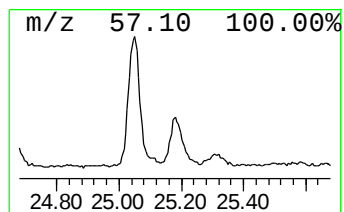
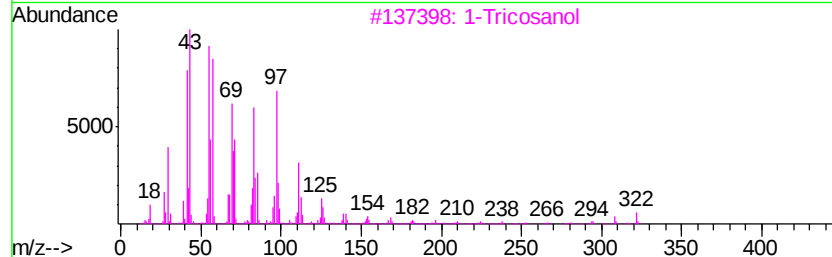
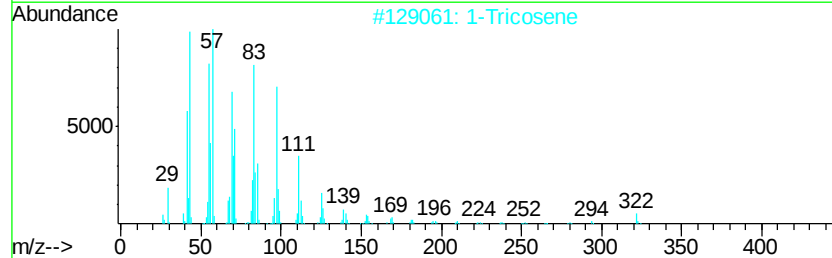
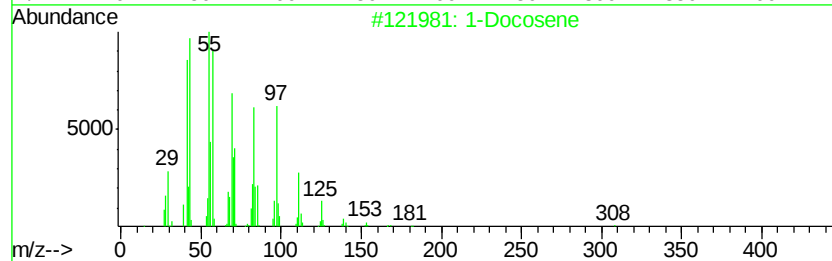
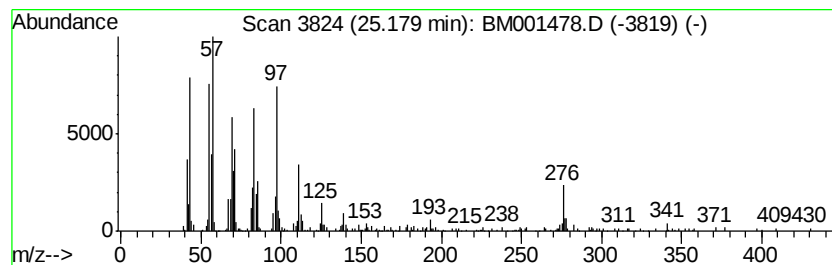
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 (DEL) Alkane: Cyclic-09 Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 25.18 | 8.48 ng/ul | 810536 | Perylene-d12     | 23.12 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Docosene           | 308 | C22H44  | 001599-67-3 | 93   |
| 2    |    |   | 1-Tricosene          | 322 | C23H46  | 018835-32-0 | 90   |
| 3    |    |   | 1-Tricosanol         | 340 | C23H48O | 003133-01-5 | 86   |
| 4    |    |   | 10-Heneicosene (c,t) | 294 | C21H42  | 095008-11-0 | 78   |
| 5    |    |   | Cyclooctacosane      | 392 | C28H56  | 000297-24-5 | 76   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

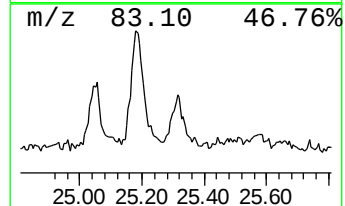
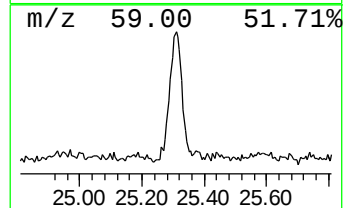
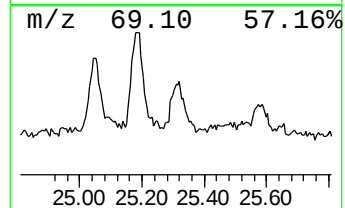
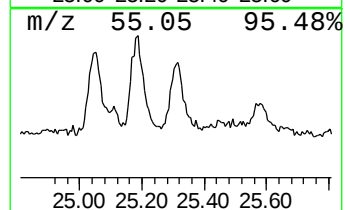
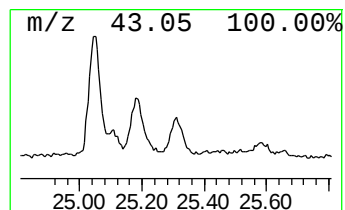
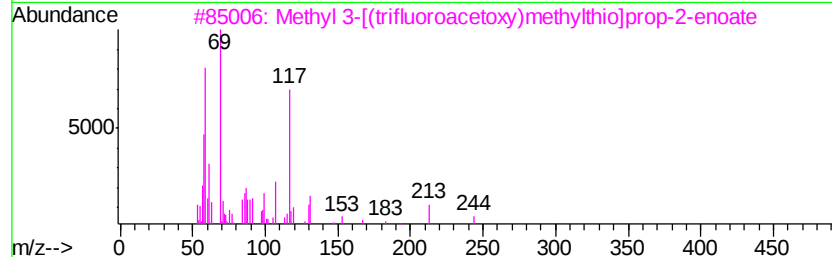
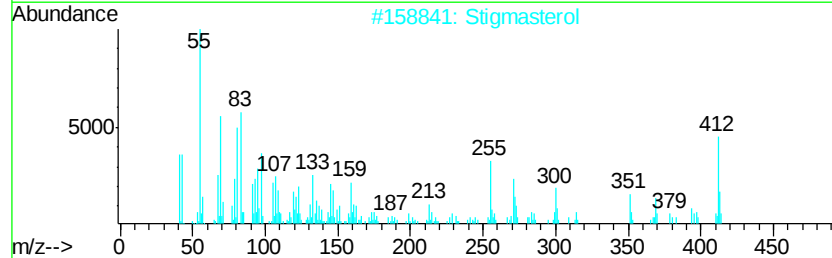
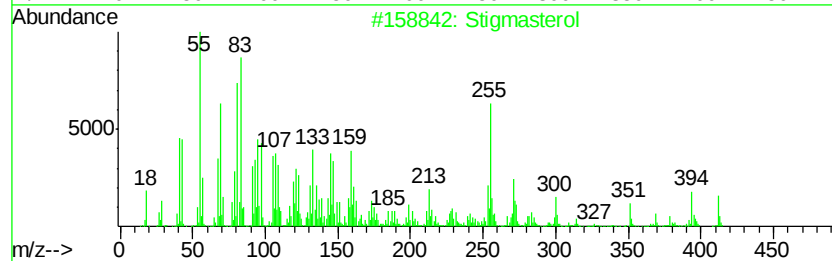
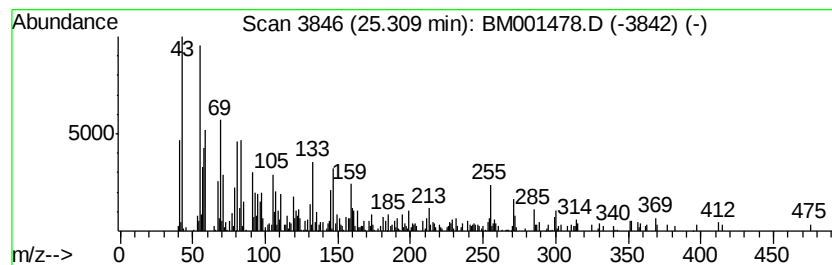
Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 13 Stigmasterol Concentration Rank 11

| R.T.    | EstConc                             | Area          | Relative to ISTD | R.T.      |
|---------|-------------------------------------|---------------|------------------|-----------|
| 25.31   | 6.21 ng/ul                          | 593558        | Perylene-d12     | 23.12     |
| Hit# of | 5                                   | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Stigmasterol                        | 412 C29H48O   | 000083-48-7      | 95        |
| 2       | Stigmasterol                        | 412 C29H48O   | 000083-48-7      | 86        |
| 3       | Methyl 3-[(trifluoroacetoxy)meth... | 244 C7H7F3O4S | 1000103-96-4     | 25        |
| 4       | Cholesta-22,24-dien-5-ol, 4,4-di... | 412 C29H48O   | 1000128-66-1     | 11        |
| 5       | 5-Cholene, 3,24-dihydroxy-          | 360 C24H40O2  | 1000251-69-2     | 11        |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

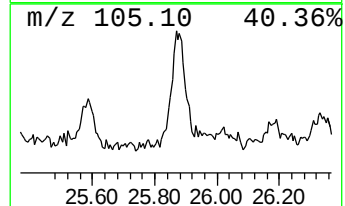
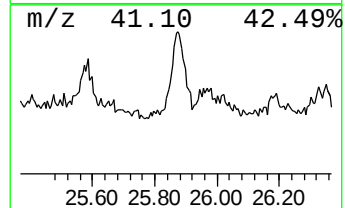
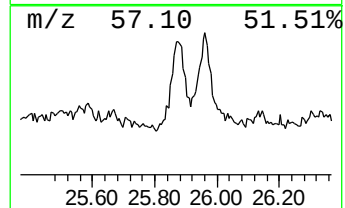
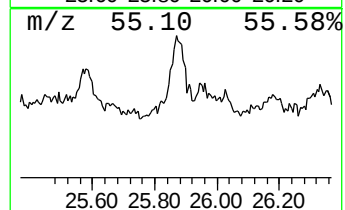
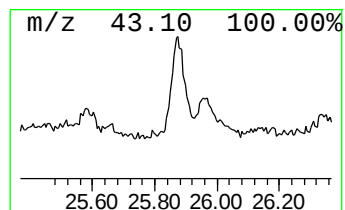
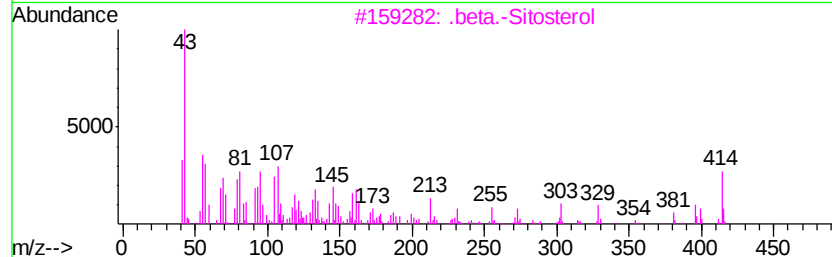
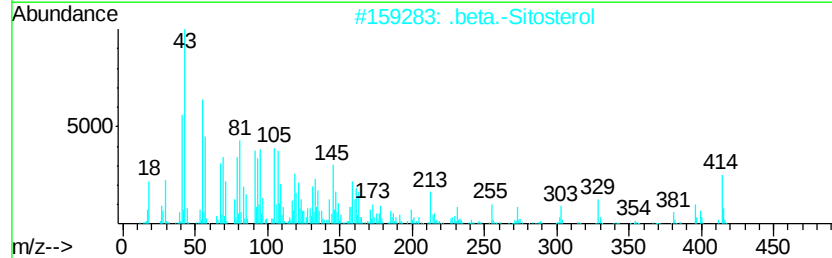
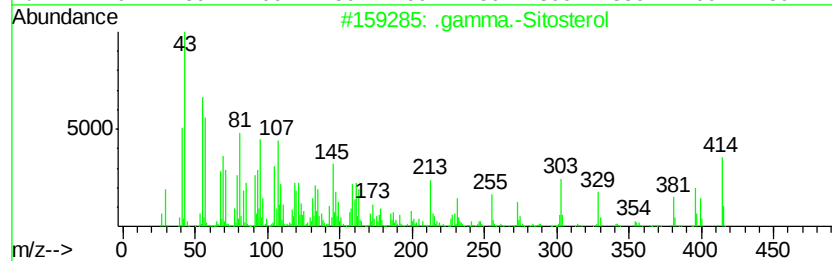
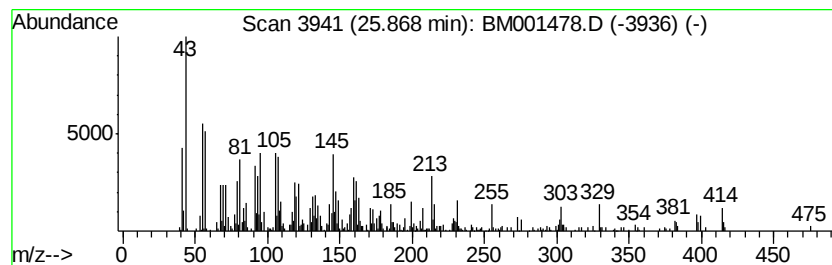
Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 14 .gamma.-Sitosterol Concentration Rank 6

| R.T.    | EstConc    | Area                         | Relative to ISTD | R.T.            |
|---------|------------|------------------------------|------------------|-----------------|
| 25.87   | 8.77 ng/ul | 837807                       | Perylene-d12     | 23.12           |
| Hit# of | 5          | Tentative ID                 | MW MolForm       | CAS# Qual       |
| 1       |            | .gamma.-Sitosterol           | 414 C29H50O      | 000083-47-6 99  |
| 2       |            | .beta.-Sitosterol            | 414 C29H50O      | 000083-46-5 96  |
| 3       |            | .beta.-Sitosterol            | 414 C29H50O      | 000083-46-5 95  |
| 4       |            | .gamma.-Sitosterol           | 414 C29H50O      | 000083-47-6 93  |
| 5       |            | Stigmasterol, 22,23-dihydro- | 414 C29H50O      | 1000214-20-7 89 |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM053015\  
Data File : BM001478.D  
Acq On : 30 May 2015 17:00  
Operator : TP/IZ  
Sample : G2411-11RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BCRC2RE

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM052915.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 |
| n-Hexadecanoic acid  | 17.74 | 14.8    | ng/ul | 1562270  | 4                     | 16.82 | 2110690 | 20.0 |
| Tetradecanoic acid   | 19.03 | 3.7     | ng/ul | 443796   | 5                     | 21.03 | 2402850 | 20.0 |
| (DEL) Alkane: Cyc... | 20.76 | 14.2    | ng/ul | 1701880  | 5                     | 21.03 | 2402850 | 20.0 |
| (DEL) Alkane: Str... | 21.19 | 3.1     | ng/ul | 377083   | 5                     | 21.03 | 2402850 | 20.0 |
| (DEL) Alkane: Str... | 21.61 | 8.1     | ng/ul | 977070   | 5                     | 21.03 | 2402850 | 20.0 |
| (DEL) Alkane: Str... | 22.03 | 8.3     | ng/ul | 999233   | 5                     | 21.03 | 2402850 | 20.0 |
| 1,19-Eicosadiene     | 22.24 | 13.6    | ng/ul | 1299920  | 6                     | 23.12 | 1911630 | 20.0 |
| (DEL) Alkane: Str... | 23.60 | 16.4    | ng/ul | 1566600  | 6                     | 23.12 | 1911630 | 20.0 |
| (DEL) Alkane: Cyc... | 23.67 | 8.8     | ng/ul | 836004   | 6                     | 23.12 | 1911630 | 20.0 |
| (DEL) Alkane: Str... | 24.27 | 3.7     | ng/ul | 351587   | 6                     | 23.12 | 1911630 | 20.0 |
| (DEL) Alkane: Str... | 25.05 | 10.5    | ng/ul | 1006940  | 6                     | 23.12 | 1911630 | 20.0 |
| (DEL) Alkane: Cyc... | 25.18 | 8.5     | ng/ul | 810536   | 6                     | 23.12 | 1911630 | 20.0 |
| Stigmasterol         | 25.31 | 6.2     | ng/ul | 593558   | 6                     | 23.12 | 1911630 | 20.0 |
| .gamma.-Sitosterol   | 25.87 | 8.8     | ng/ul | 837807   | 6                     | 23.12 | 1911630 | 20.0 |